

Piano Strutturale R2 all

ALLEGATI HEC RAS



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aprile 2021

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Garante dell'informazione e della partecipazione: Francesco Manganelli

Responsabile del procedimento: Rita Lucci

Comune di Colle di Val d'Elsa



MODELLI HEC RAS

INDICE:

1	Modello “Amboiana”	2
1.1	Fosso Amboiana	2
2	Modello “Doccina”	39
2.1	Fosso della Doccina	39
3	Modello “Elsa”	62
3.1	Botro ai Colli.....	62
3.2	Fiume Elsa	81
3.3	Botro di Ricorboli.....	183
3.4	Affluente del fosso di San Marziale	214
3.5	Fosso di San Marziale	231
3.6	Torrente Scarna.....	262
3.7	Torrente Senna.....	299
3.8	Botro degli Strulli.....	316
3.9	Fosso Podere Valli.....	343
4	Modello “SantAgostino-Convento”	376
4.1	Botro del Convento	376
4.2	Fosso di San’Agostino	395

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

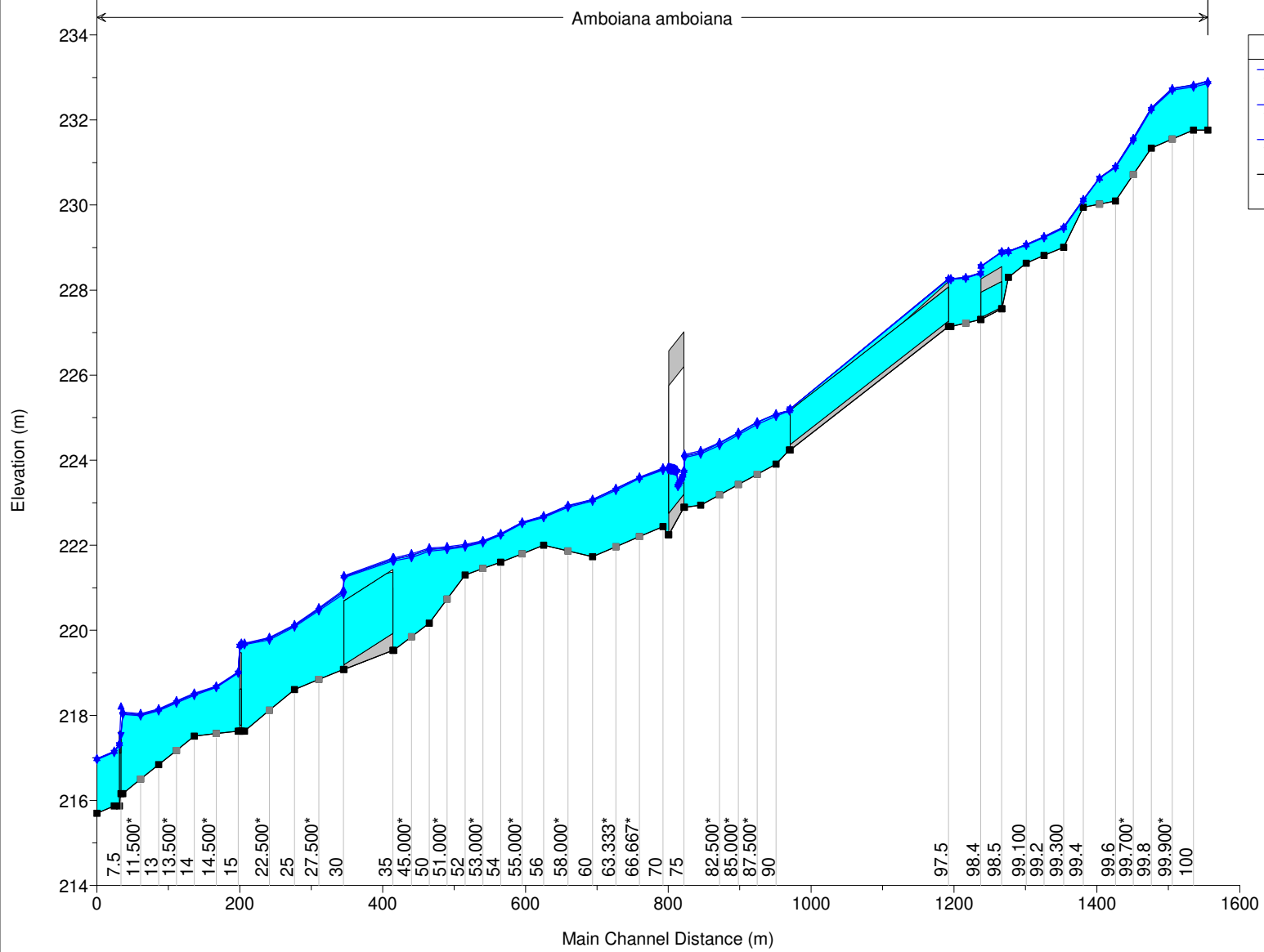
Profilo longitudinale

Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3

Amboiana amboiana

Legend

WS Max WS - UF_TR200_D2	▲
WS Max WS - UF_TR200_D1	▲
WS Max WS - UF_TR200_D3	▲
Ground	■



ALLEGATI

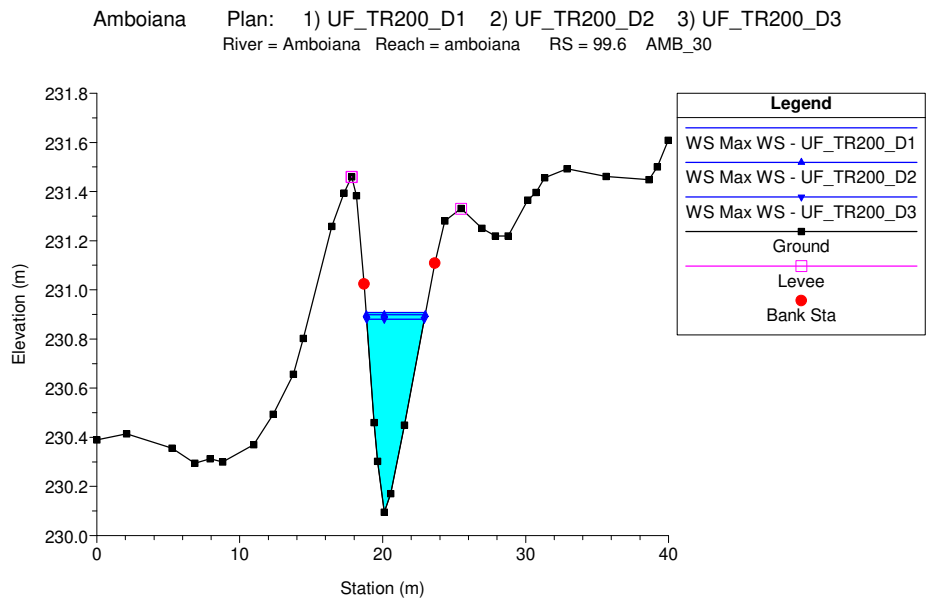
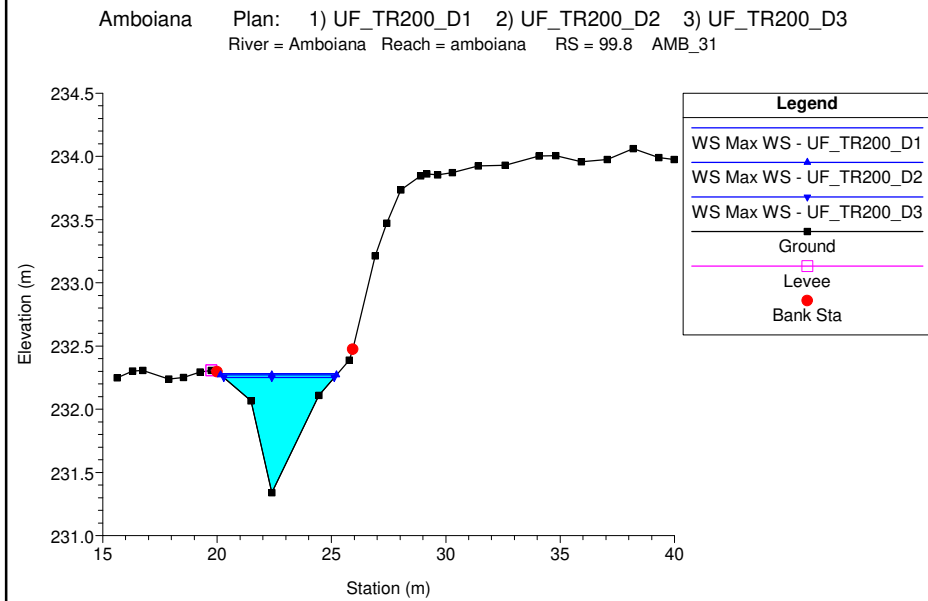
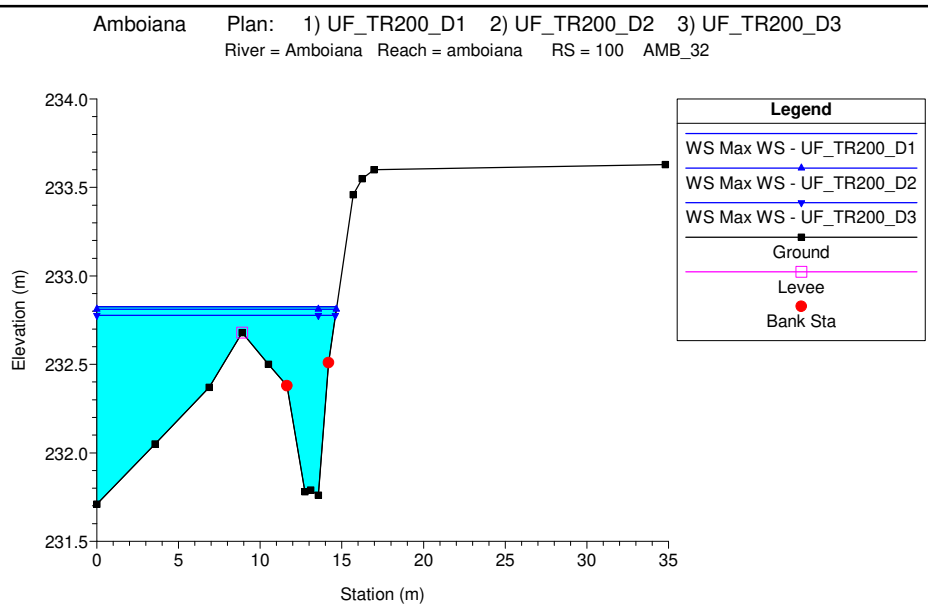
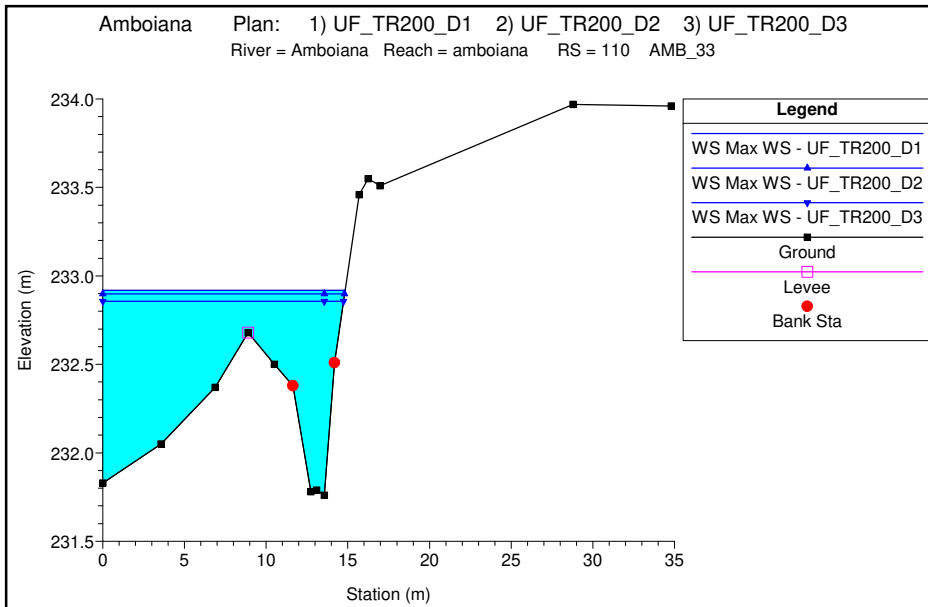
MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

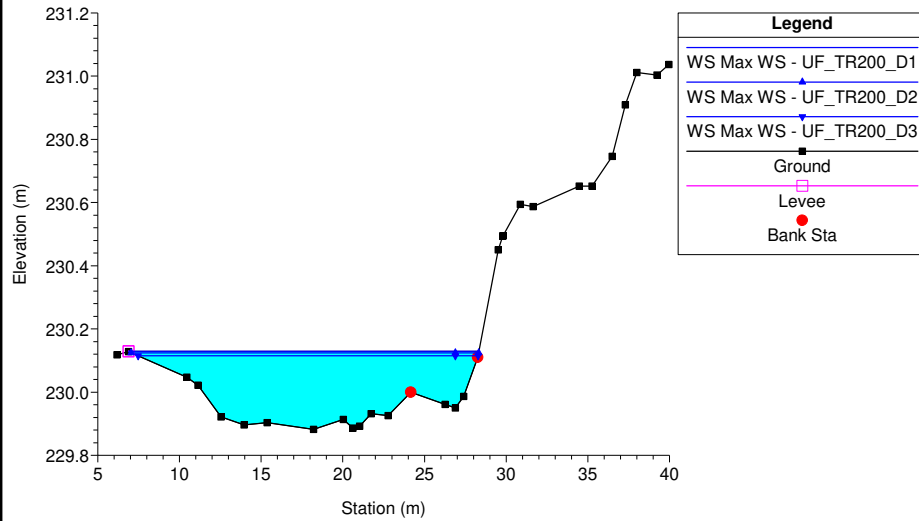
MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

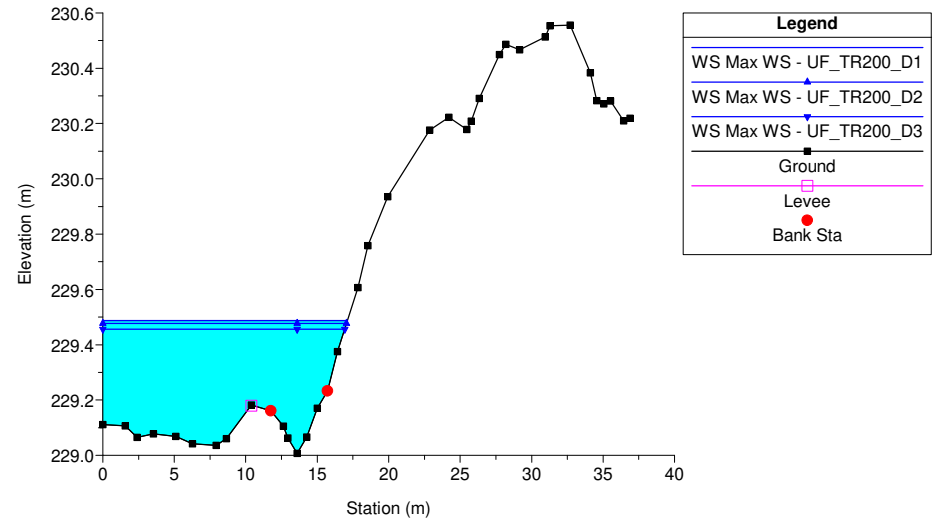
Sezioni Trasversali (da monte verso valle)



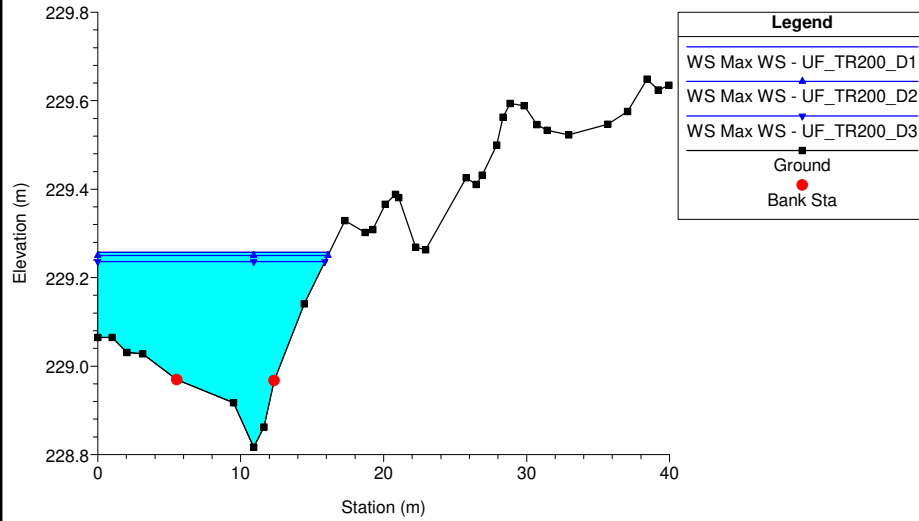
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 99.4 AMB_29



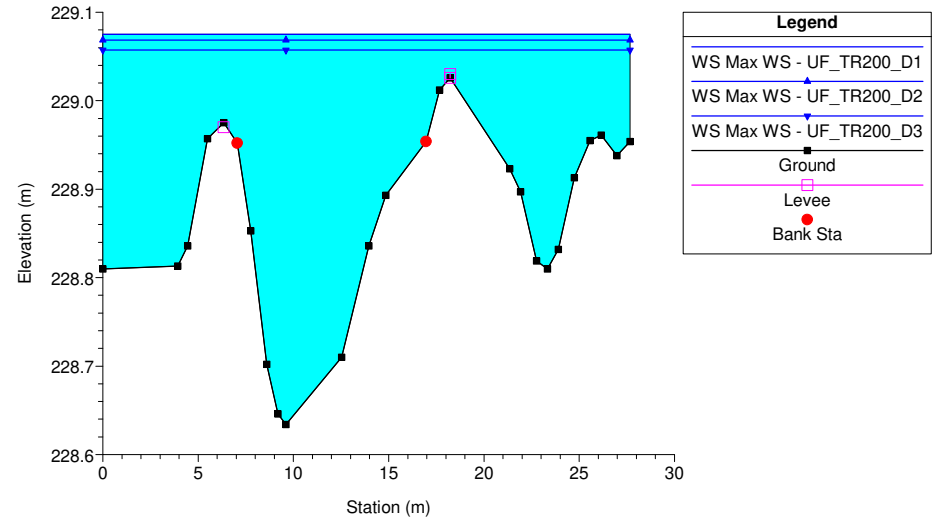
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 River = Amboiana Reach = amboiana RS = 99.300 AMB_28



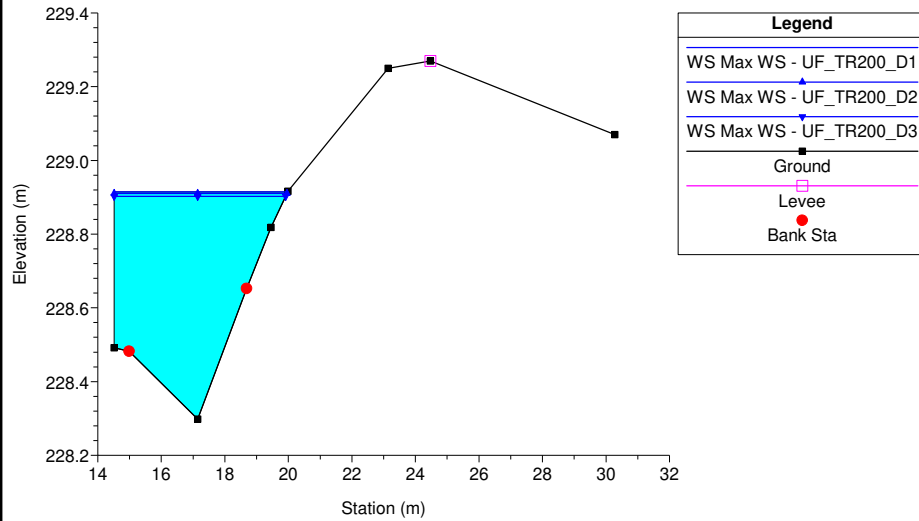
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 River = Amboiana Reach = amboiana RS = 99.2 AMB_27



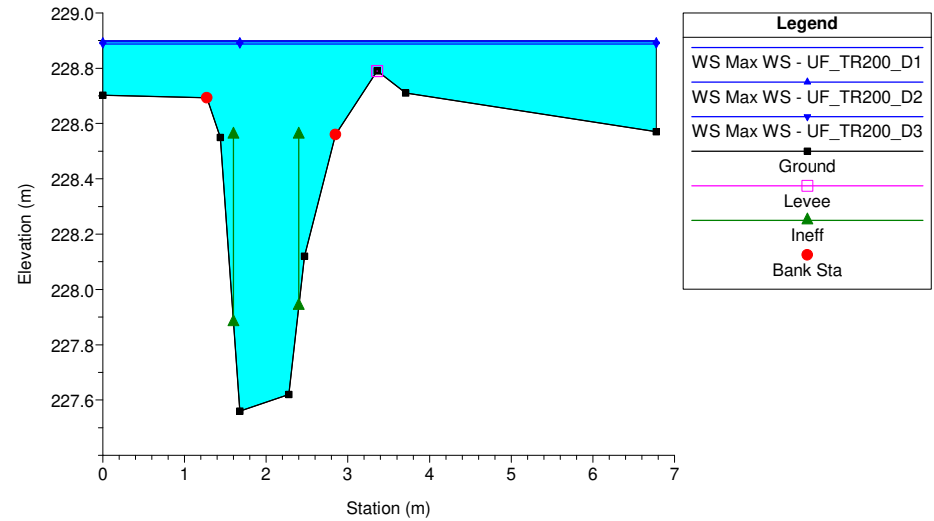
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 River = Amboiana Reach = amboiana RS = 99.100 AMB_26



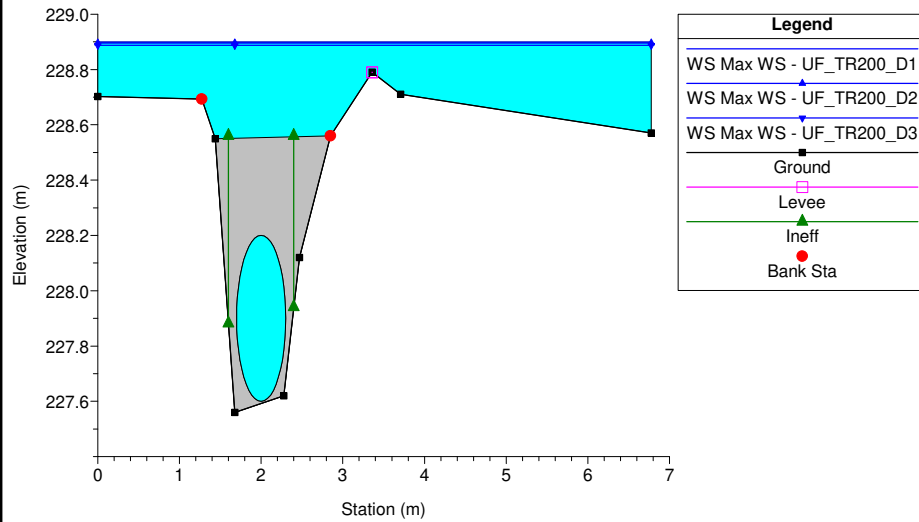
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 99 AMB_25



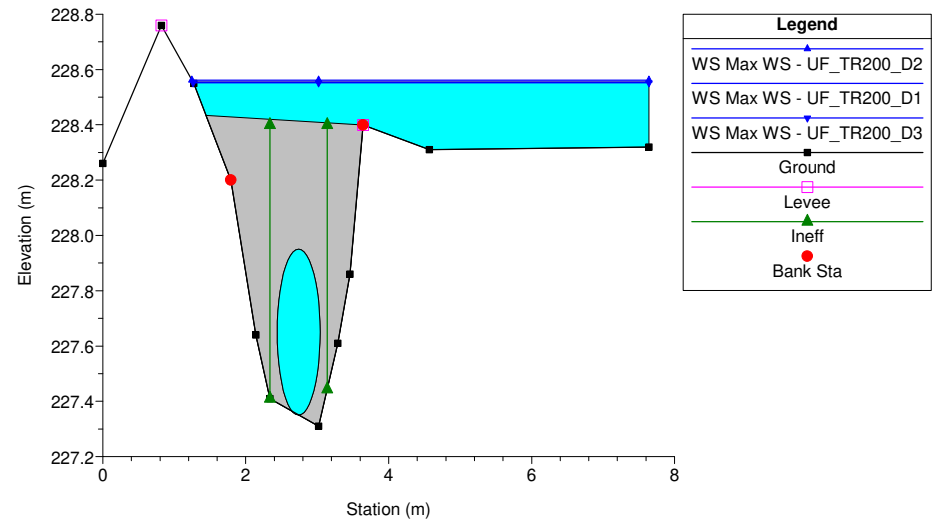
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 98.6 AMB_24

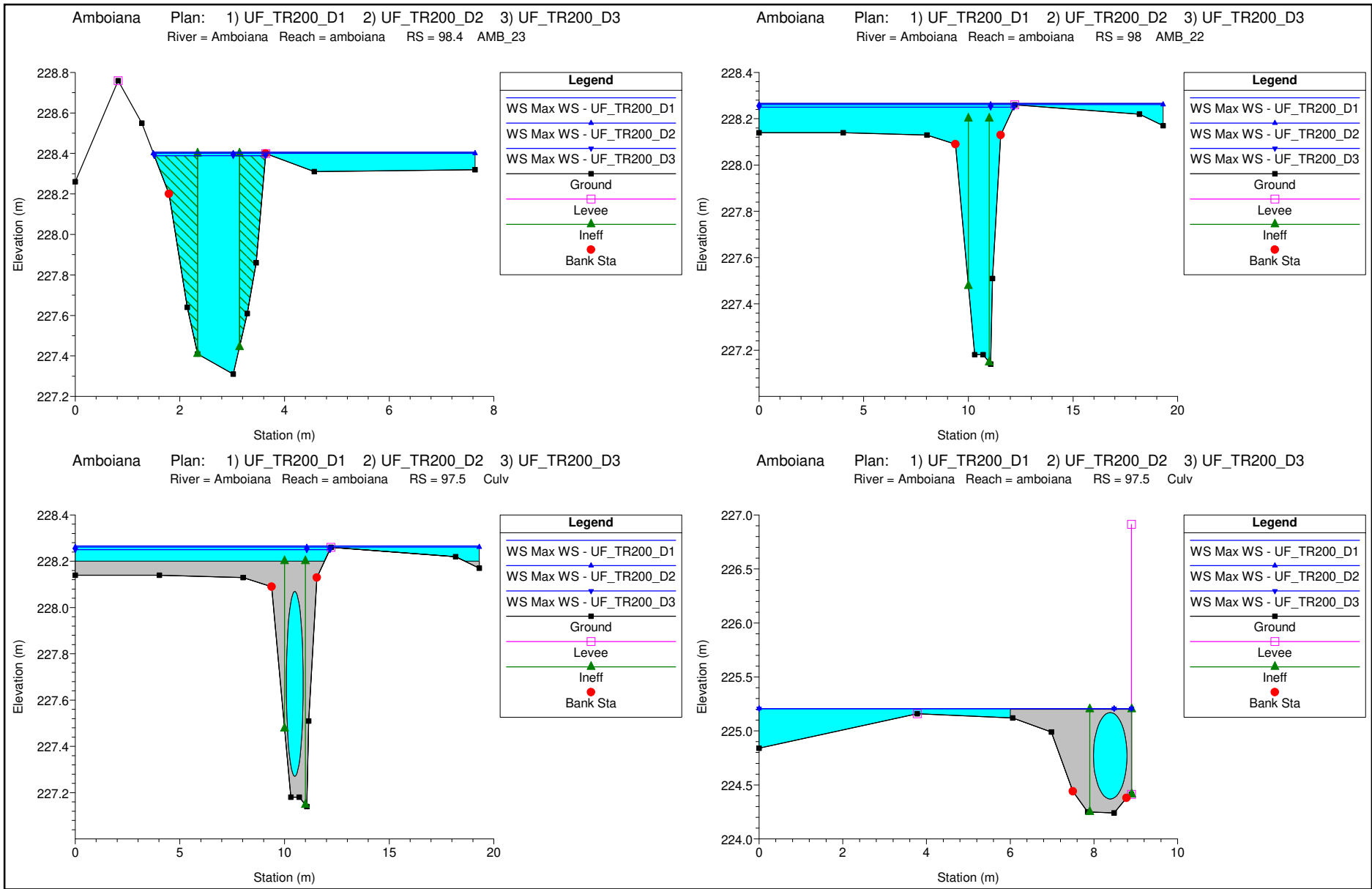


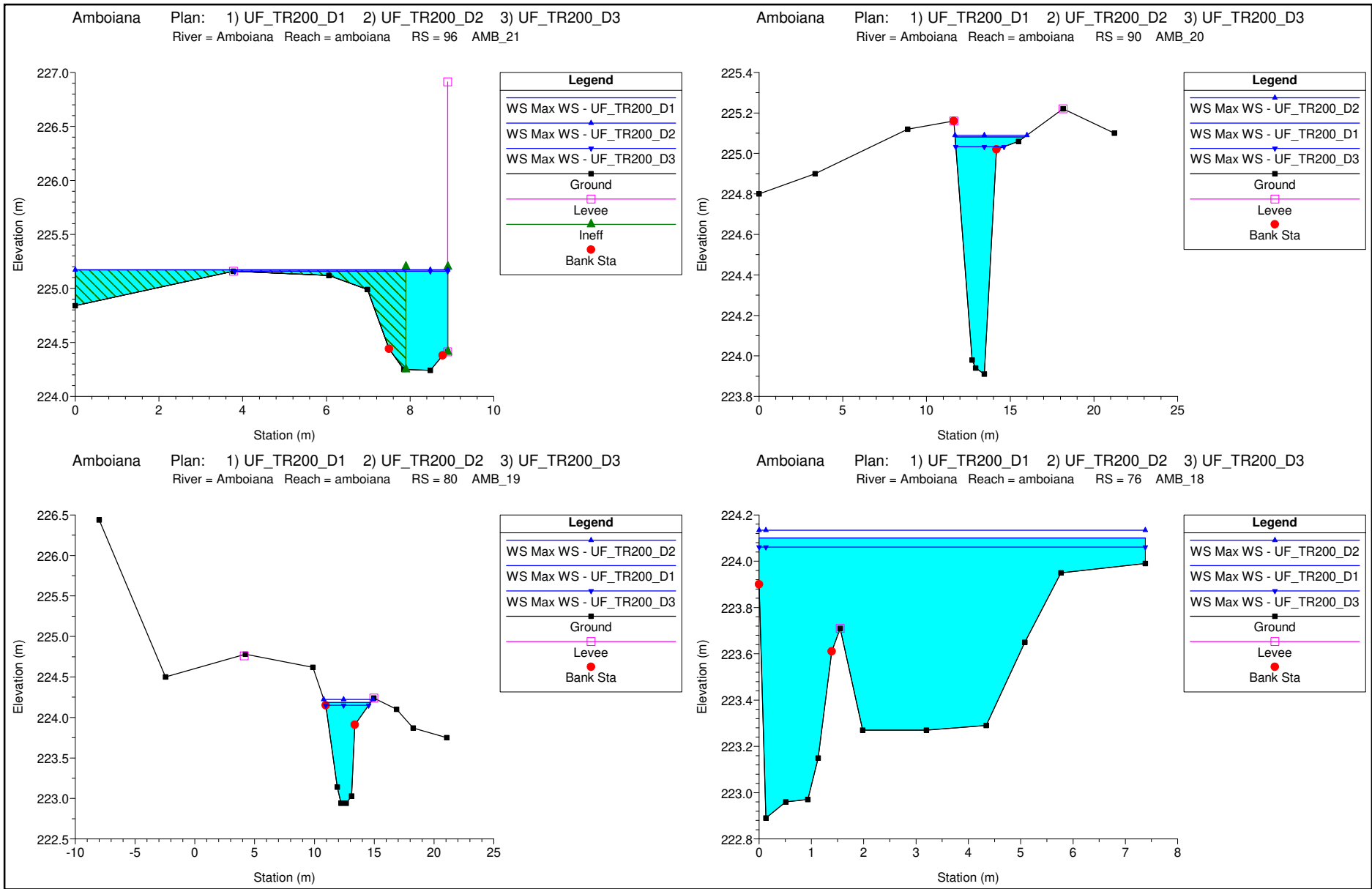
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 98.5 Culv



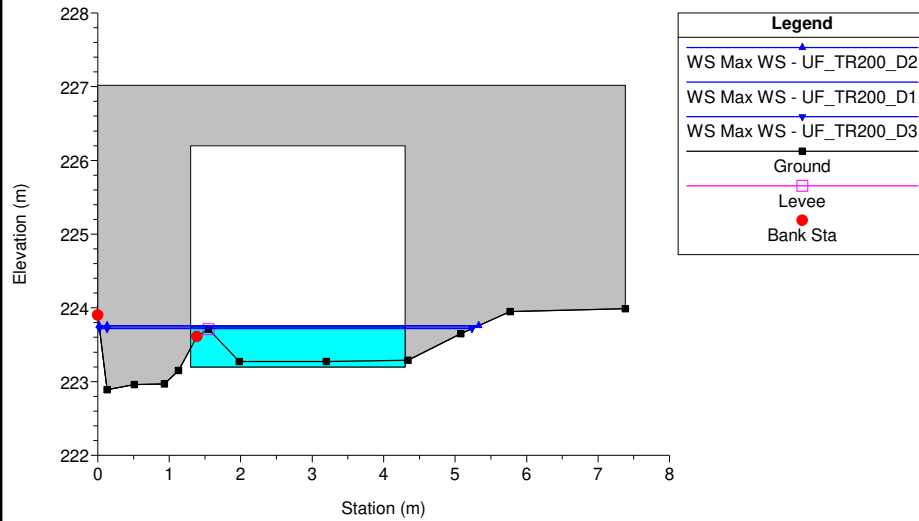
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 98.5 Culv



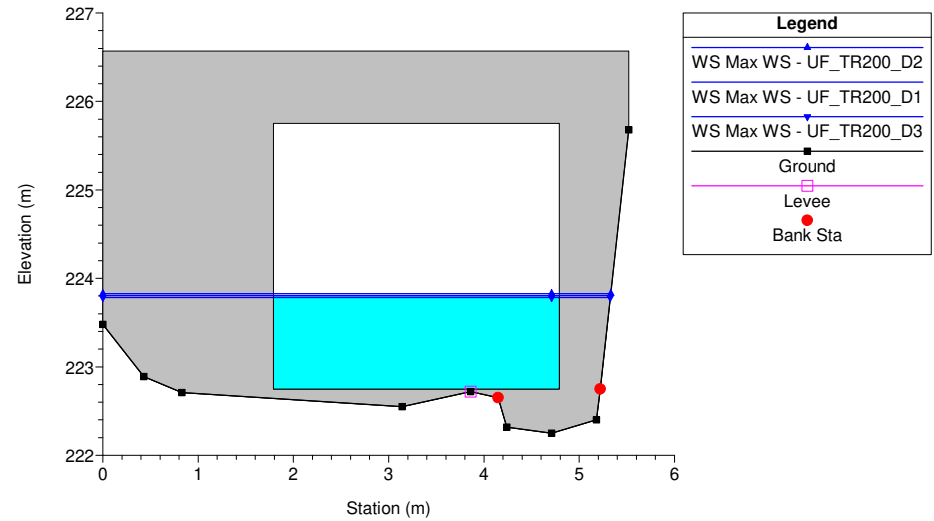




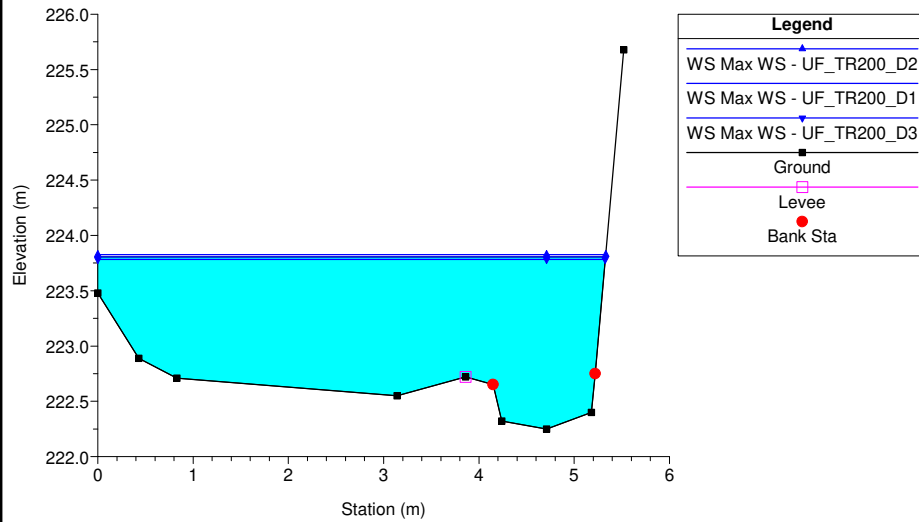
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 75 Culv



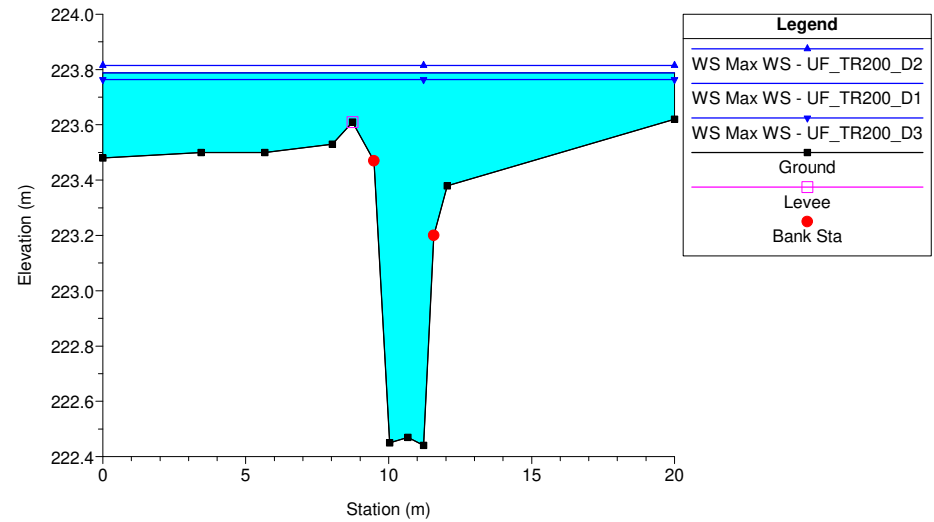
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 75 Culv

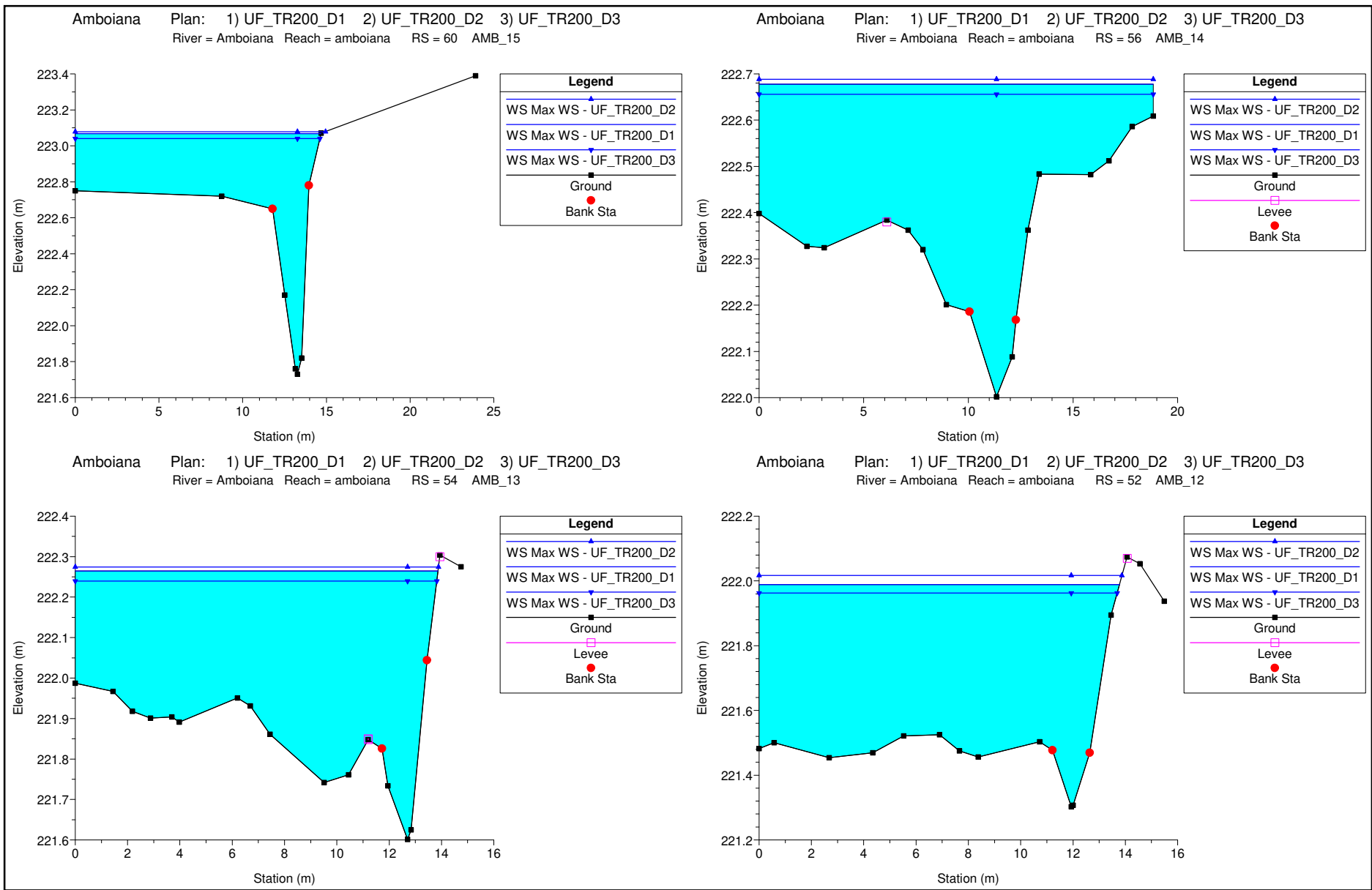


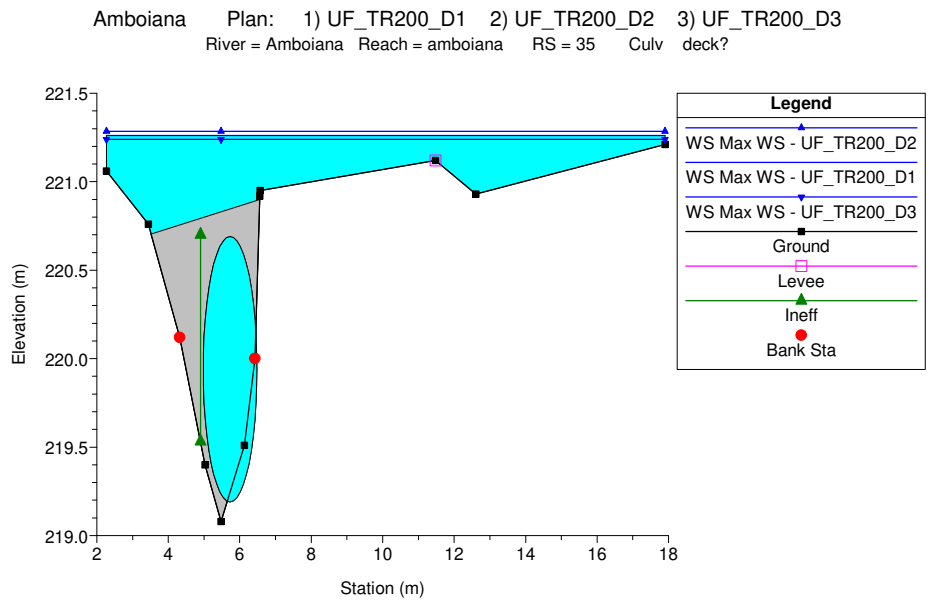
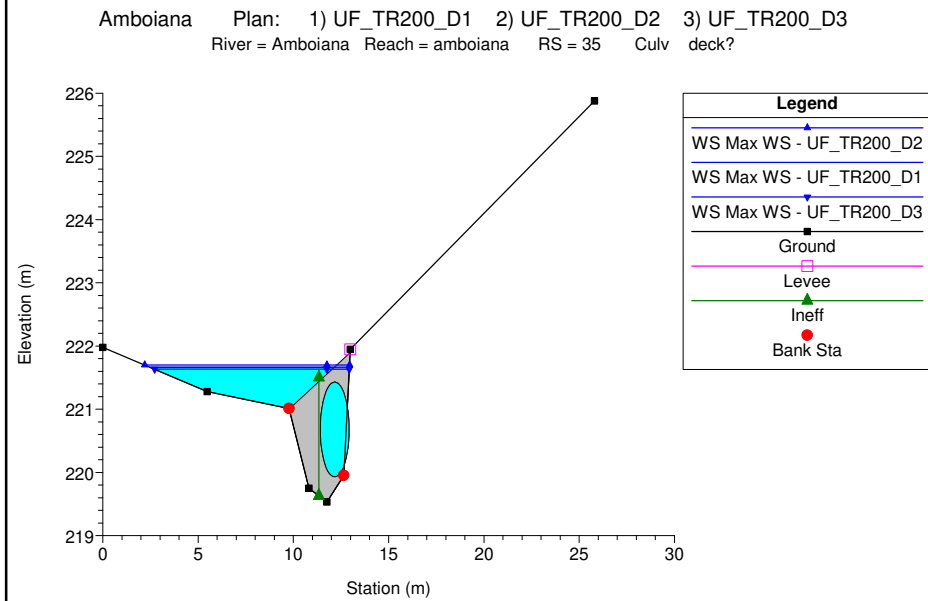
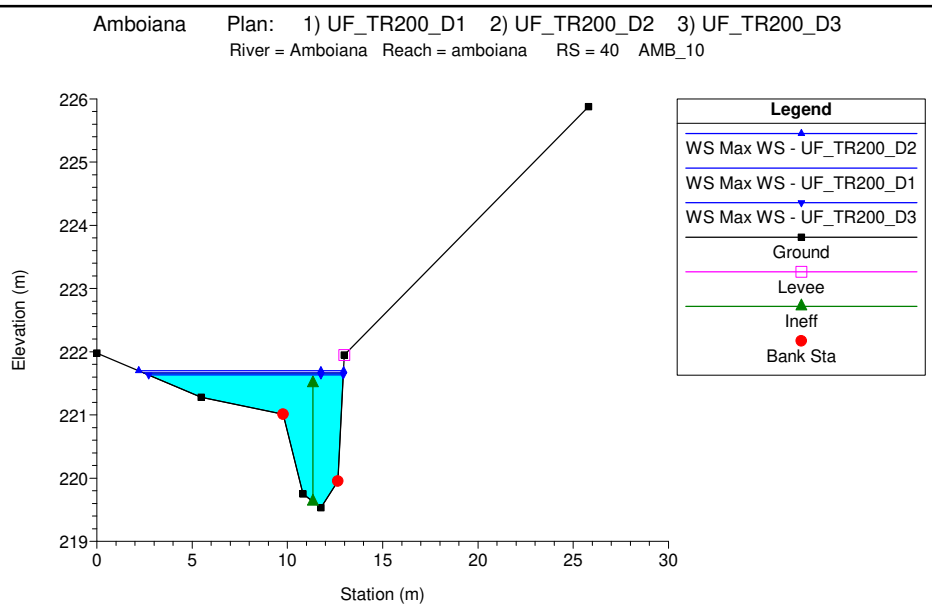
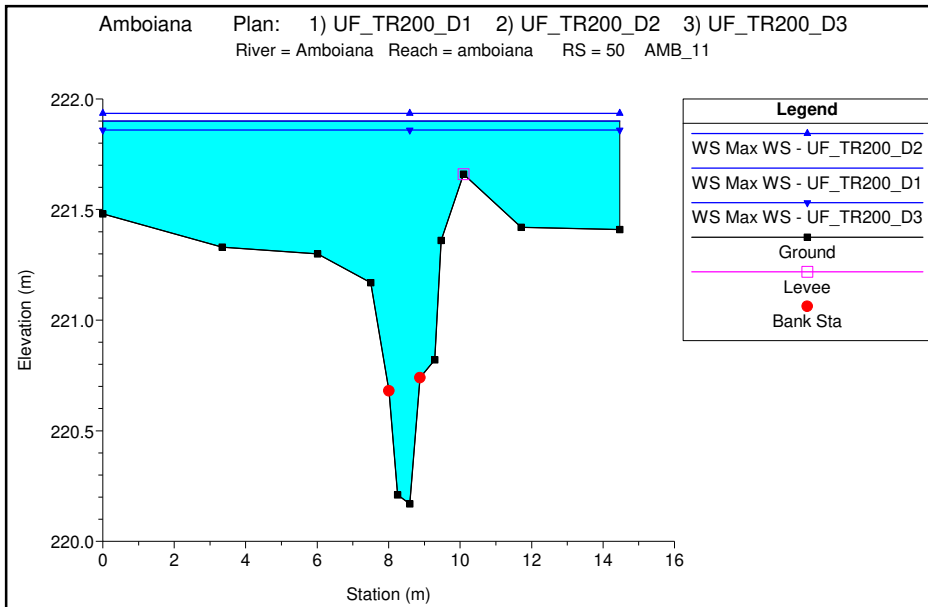
Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
 River = Amboiana Reach = amboiana RS = 73 AMB_17

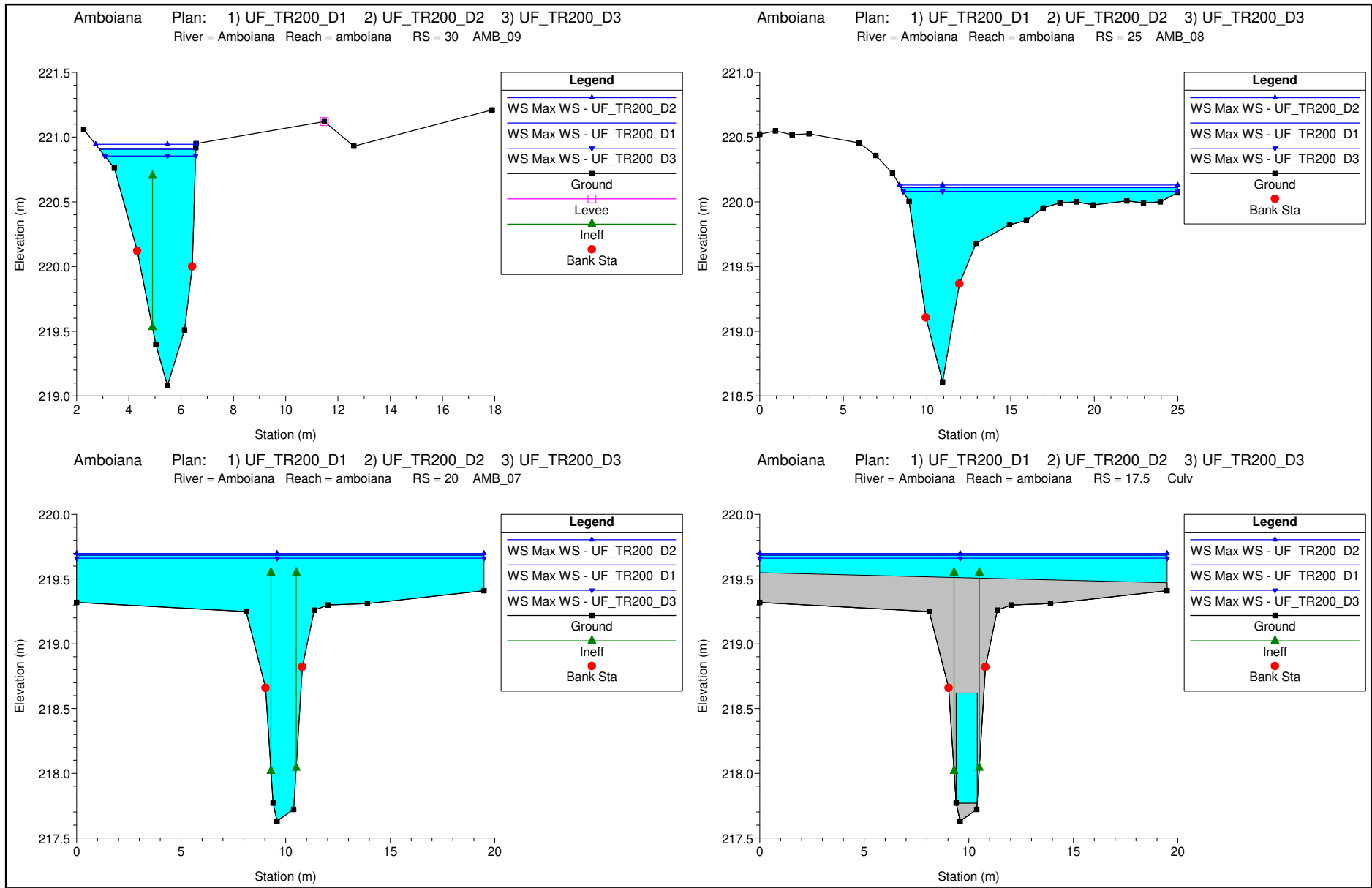


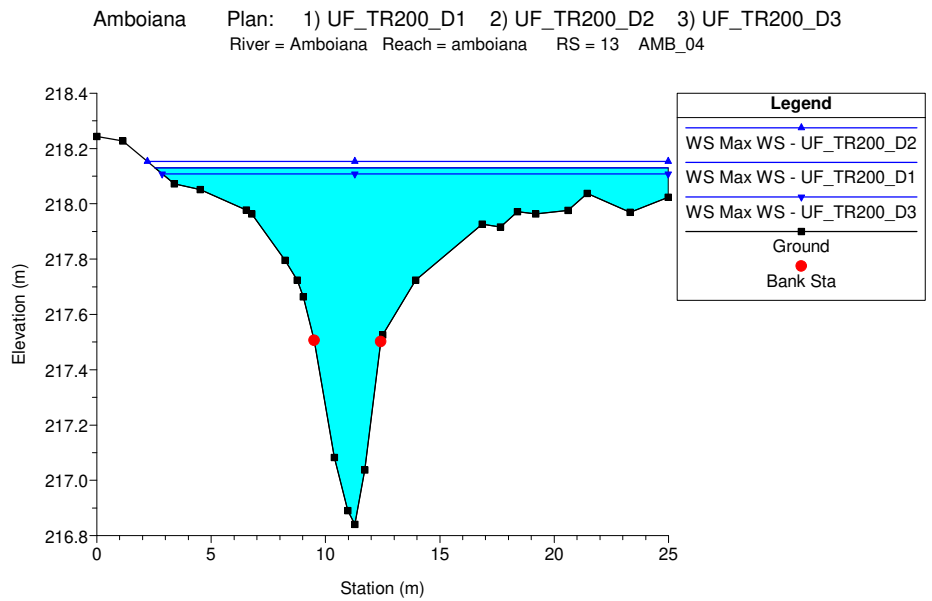
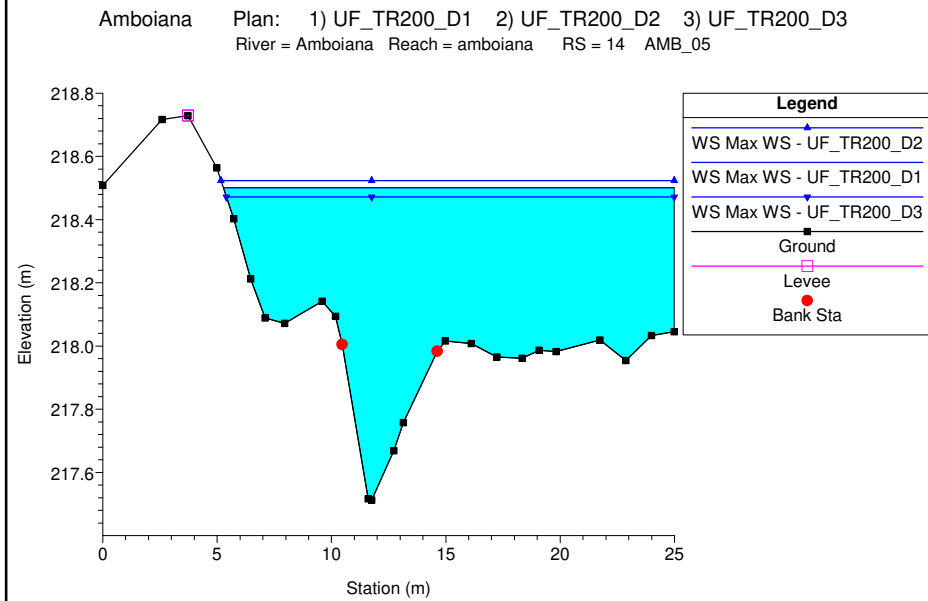
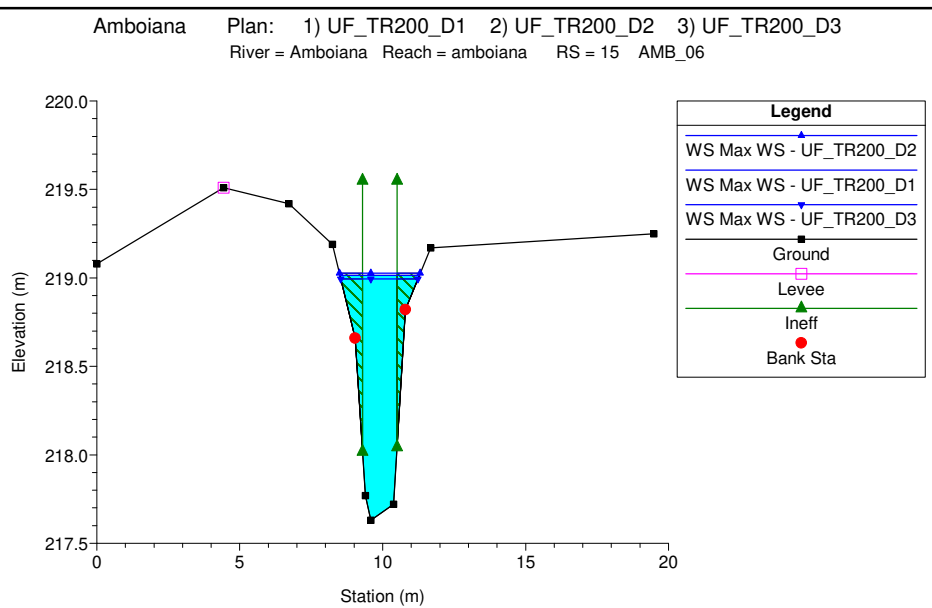
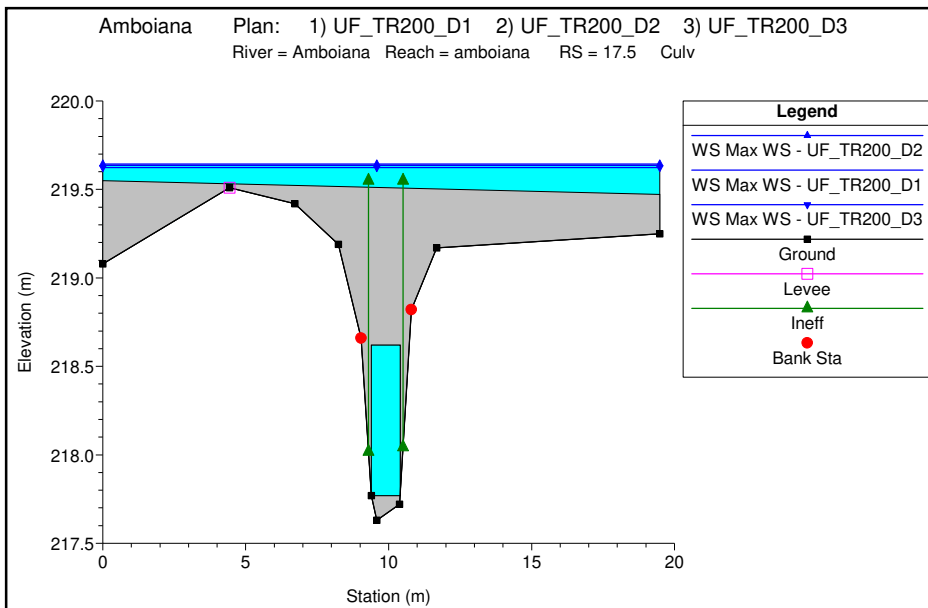
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 River = Amboiana Reach = amboiana RS = 70 AMB_16

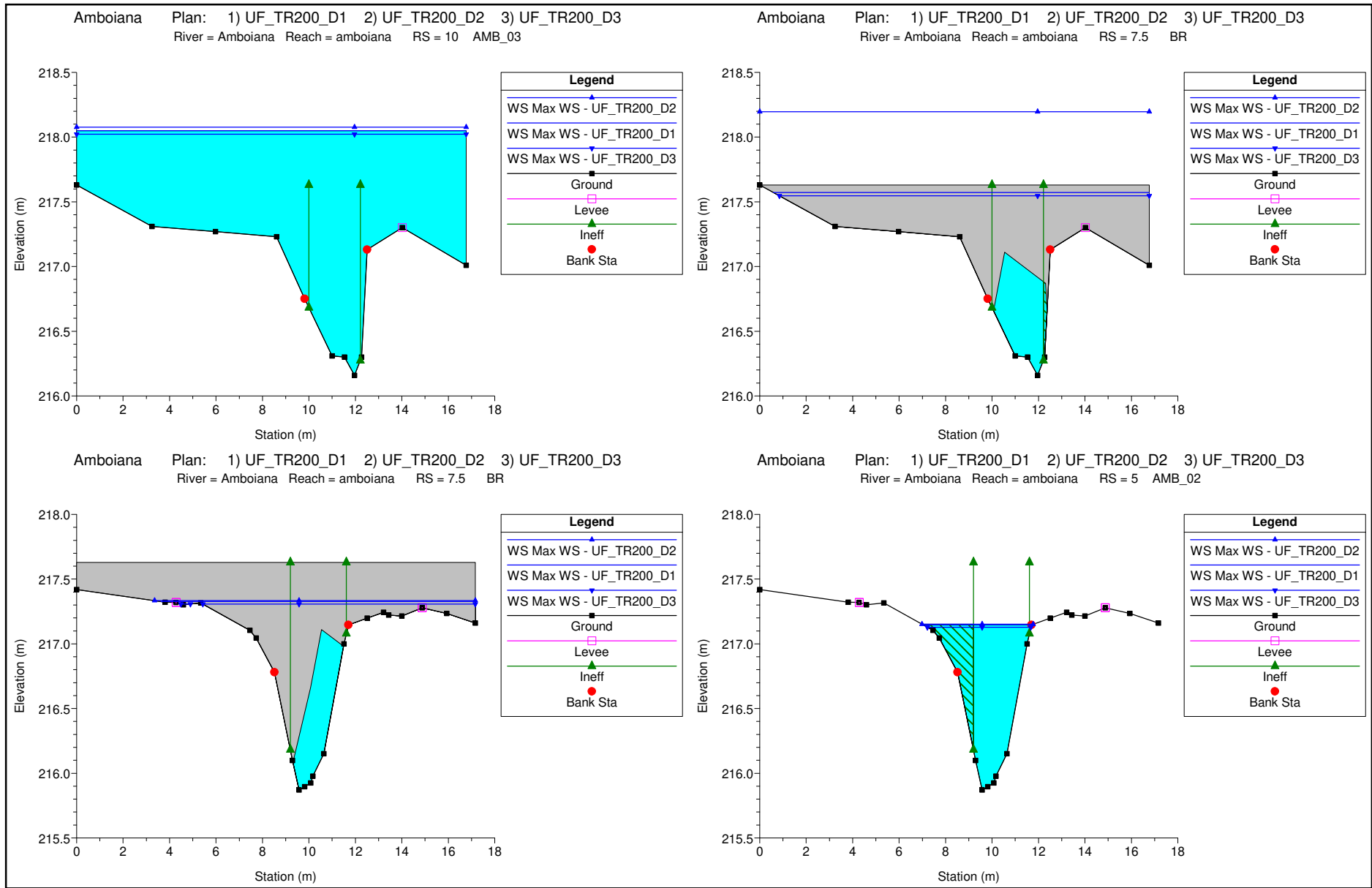




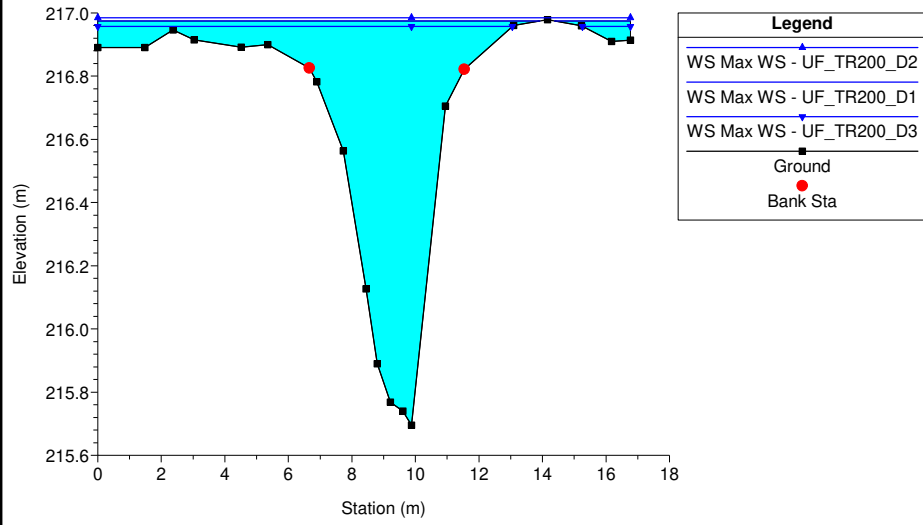








Amboiana Plan: 1) UF_TR200_D1 2) UF_TR200_D2 3) UF_TR200_D3
River = Amboiana Reach = amboiana RS = 2 AMB_01



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MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Amboiana Reach: amboiana Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
amboiana	110	Max WS	UF_TR200_D1	11.40	231.76	232.92		233.01	0.005925	1.84	0.91	0.40	10.17	14.83	0.61
amboiana	110	Max WS	UF_TR200_D2	10.50	231.76	232.90		232.98	0.005476	1.75	0.86	0.37	9.89	14.80	0.59
amboiana	110	Max WS	UF_TR200_D3	8.60	231.76	232.86		232.92	0.004508	1.54	0.75	0.31	9.25	14.73	0.53
amboiana	109														
amboiana	100	Max WS	UF_TR200_D1	9.51	231.76	232.83		232.91	0.006061	1.74	0.85	0.34	9.02	14.68	0.61
amboiana	100	Max WS	UF_TR200_D2	8.85	231.76	232.81		232.89	0.005655	1.66	0.81	0.32	8.80	14.66	0.59
amboiana	100	Max WS	UF_TR200_D3	7.47	231.76	232.78		232.84	0.004803	1.49	0.72	0.27	8.31	14.60	0.54
amboiana	99.8	Max WS	UF_TR200_D1	4.52	231.34	232.28	232.38	232.57	0.029748	2.39			1.89	5.18	1.26
amboiana	99.8	Max WS	UF_TR200_D2	4.34	231.34	232.27	232.37	232.56	0.029264	2.36			1.84	5.07	1.25
amboiana	99.8	Max WS	UF_TR200_D3	3.98	231.34	232.25	232.34	232.52	0.028204	2.29			1.73	4.83	1.22
amboiana	99.6	Max WS	UF_TR200_D1	4.51	230.10	230.91	230.96	231.21	0.024000	2.44			1.85	4.16	1.17
amboiana	99.6	Max WS	UF_TR200_D2	4.34	230.10	230.90	230.95	231.19	0.023431	2.39			1.81	4.12	1.15
amboiana	99.6	Max WS	UF_TR200_D3	3.98	230.10	230.88	230.92	231.15	0.022082	2.29			1.74	4.04	1.11
amboiana	99.4	Max WS	UF_TR200_D1	4.21	229.95	230.13	230.12	230.21	0.044434	1.62	1.09	0.16	3.57	21.46	1.38
amboiana	99.4	Max WS	UF_TR200_D2	4.05	229.95	230.12	230.11	230.20	0.045118	1.60	1.09	0.13	3.47	21.29	1.39
amboiana	99.4	Max WS	UF_TR200_D3	3.72	229.95	230.11	230.11	230.19	0.045610	1.53	1.07	0.06	3.26	20.82	1.38
amboiana	99.300	Max WS	UF_TR200_D1	3.94	229.01	229.49		229.51	0.003727	0.91	0.54	0.25	6.36	17.11	0.47
amboiana	99.300	Max WS	UF_TR200_D2	3.78	229.01	229.48		229.50	0.003760	0.90	0.53	0.24	6.18	17.04	0.47
amboiana	99.300	Max WS	UF_TR200_D3	3.51	229.01	229.46		229.48	0.003882	0.88	0.52	0.23	5.84	16.92	0.48
amboiana	99.2	Max WS	UF_TR200_D1	4.51	228.82	229.26		229.35	0.011023	1.47	0.64	0.47	4.15	16.21	0.80
amboiana	99.2	Max WS	UF_TR200_D2	4.30	228.82	229.25		229.34	0.010864	1.44	0.63	0.45	4.03	16.10	0.79
amboiana	99.2	Max WS	UF_TR200_D3	3.89	228.82	229.24		229.31	0.010455	1.37	0.59	0.43	3.81	15.89	0.77
amboiana	99.199														
amboiana	99.100	Max WS	UF_TR200_D1	3.95	228.63	229.07		229.11	0.005693	0.95	0.44	0.34	5.95	27.67	0.56
amboiana	99.100	Max WS	UF_TR200_D2	3.77	228.63	229.07		229.10	0.005687	0.93	0.43	0.33	5.78	27.67	0.56
amboiana	99.100	Max WS	UF_TR200_D3	3.49	228.63	229.06		229.09	0.005726	0.91	0.42	0.31	5.46	27.67	0.56
amboiana	99	Max WS	UF_TR200_D1	2.73	228.30	228.91		229.01	0.006506	1.42	0.50	0.33	2.18	5.47	0.65
amboiana	99	Max WS	UF_TR200_D2	2.64	228.30	228.91		229.00	0.006309	1.39	0.49	0.32	2.15	5.45	0.64
amboiana	99	Max WS	UF_TR200_D3	2.49	228.30	228.90		228.99	0.005963	1.33	0.47	0.31	2.11	5.40	0.62
amboiana	98.99														
amboiana	98.6	Max WS	UF_TR200_D1	2.25	227.56	228.90		228.96	0.004727	1.22	0.36	0.42	2.66	6.78	0.41
amboiana	98.6	Max WS	UF_TR200_D2	2.20	227.56	228.90		228.95	0.004605	1.20	0.35	0.41	2.63	6.78	0.40
amboiana	98.6	Max WS	UF_TR200_D3	2.10	227.56	228.89		228.94	0.004380	1.16	0.33	0.39	2.59	6.78	0.39
amboiana	98.5														
amboiana	98.4	Max WS	UF_TR200_D1	2.25	227.31	228.41		228.51	0.006514	1.46	0.26	0.25	1.84	6.16	0.52
amboiana	98.4	Max WS	UF_TR200_D2	2.20	227.31	228.40		228.76	0.009095	2.65			0.83	2.15	0.83
amboiana	98.4	Max WS	UF_TR200_D3	2.10	227.31	228.39		228.72	0.008603	2.56			0.82	2.13	0.81
amboiana	98.39														
amboiana	98	Max WS	UF_TR200_D1	1.46	227.14	228.27		228.29	0.001559	0.74	0.17	0.07	3.20	19.31	0.27
amboiana	98	Max WS	UF_TR200_D2	1.37	227.14	228.26		228.28	0.001419	0.70	0.16	0.06	3.10	19.31	0.25
amboiana	98	Max WS	UF_TR200_D3	1.16	227.14	228.25		228.27	0.001125	0.62	0.13	0.08	2.77	12.17	0.23
amboiana	97.5														
amboiana	96	Max WS	UF_TR200_D1	1.31	224.24	225.17		225.30	0.003835	1.62		0.23	0.89	8.90	0.54
amboiana	96	Max WS	UF_TR200_D2	1.33	224.24	225.17		225.31	0.003959	1.64		0.23	0.89	8.90	0.55
amboiana	96	Max WS	UF_TR200_D3	1.18	224.24	225.16		225.27	0.003289	1.48		0.21	0.88	5.08	0.50
amboiana	95														
amboiana	90	Max WS	UF_TR200_D1	2.36	223.91	225.08		225.16	0.004828	1.28		0.12	1.90	4.15	0.47
amboiana	90	Max WS	UF_TR200_D2	2.38	223.91	225.09		225.17	0.004740	1.27		0.13	1.93	4.30	0.47
amboiana	90	Max WS	UF_TR200_D3	2.09	223.91	225.03		225.11	0.004638	1.21		0.04	1.73	2.88	0.46
amboiana	89.99														
amboiana	80	Max WS	UF_TR200_D1	3.86	222.94	224.18		224.34	0.007586	1.77	0.09	0.38	2.33	3.82	0.60
amboiana	80	Max WS	UF_TR200_D2	3.95	222.94	224.22		224.37	0.006788	1.72	0.14	0.39	2.48	4.11	0.57
amboiana	80	Max WS	UF_TR200_D3	3.51	222.94	224.15		224.29	0.007233	1.68		0.34	2.20	3.58	0.58
amboiana	76	Max WS	UF_TR200_D1	3.73	222.89	224.10		224.14	0.004099	1.15		0.66	4.58	7.38	0.37
amboiana	76	Max WS	UF_TR200_D2	3.92	222.89	224.13		224.18	0.003906	1.14		0.67	4.82	7.38	0.36
amboiana	76	Max WS	UF_TR200_D3	3.50	222.89	224.06		224.10	0.004361	1.17		0.65	4.29	7.38	0.38
amboiana	75														
amboiana	73	Max WS	UF_TR200_D1	3.70	222.25	223.81		223.83	0.001007	0.88	0.51	0.08	6.19	5.33	0.23
amboiana	73	Max WS	UF_TR200_D2	3.91	222.25	223.83		223.85	0.001070	0.91	0.53	0.08	6.30	5.33	0.24
amboiana	73	Max WS	UF_TR200_D3	3.50	222.25	223.78		223.80	0.000956	0.84	0.49	0.07	6.07	5.33	0.22
amboiana	72.9														
amboiana	72.8														
amboiana	70	Max WS	UF_TR200_D1	3.98	222.44	223.79		223.82	0.001821	1.00	0.30	0.31	7.56	20.00	0.30
amboiana	70	Max WS	UF_TR200_D2	3.94	222.44	223.82		223.84	0.001512	0.93	0.29	0.30	8.10	20.00	0.28
amboiana	70	Max WS	UF_TR200_D3	3.70	222.44	223.76		223.80	0.001836	0.99	0.28	0.30	7.08	20.00	0.30
amboiana	60	Max WS	UF_TR200_D1	7.20	221.73	223.07		223.20	0.008863	2.02	0.76	0.41	6.19	14.69	0.67
amboiana	60	Max WS	UF_TR200_D2	7.44	221.73	223.08		223.21	0.008904	2.04	0.78	0.36	6.34	14.94	0.68
amboiana	60	Max WS	UF_TR200_D3	6.25	221.73	223.04		223.16	0.007990	1.88	0.68	0.36	5.78	14.62	0.63
amboiana	56	Max WS	UF_TR200_D1	6.17	222.00	222.68		222.78	0.009675	1.99	0.81	0.54	6.09	18.84	0.82
amboiana	56	Max WS	UF_TR200_D2	6.42	222.00	222.69		222.79	0.009795	2.01	0.82	0.55	6.29	18.84	0.82
amboiana	56	Max WS	UF_TR200_D3	5.38	222.00	222.66		222.75	0.009099	1.87	0.75	0.48	5.69	18.84	0.79
amboiana	54	Max WS	UF_TR200_D1	5.65	221.60	222.26		222.34	0.010498	1.80	0.89	0.36	5.46	13.87	0.79
amboiana	54	Max WS	UF_TR200_D2	5.83	221.60	222.27		222.35	0.010342	1.81	0.90	0.37	5.60	13.89	0.79
amboiana	54	Max WS	UF_TR200_D3	5.23	221.60	222.24		222.31	0.011003	1.78	0.87	0.34	5.12	13.82	0.80
amboiana	52	Max WS	UF_TR200_D1	4.39	221.30	221.99		222.02	0.003269	1.15	0.59	0.34	6.78	13.78	0.47
amboiana	52	Max WS	UF_TR200_D2	4.46	221.30	222.02		222.04	0.002837	1.10	0.56	0.32	7.17	13.87	0.44
amboiana	52	Max WS	UF_TR200_D3	4.01	221.30	221.96		221.99	0.003235	1.11	0.56	0.33	6.42	13.69	0.46
amboiana	50	Max WS	UF_TR200_D1	4.19	220.17	221.90		221.92	0.001352	0.97	0.41	0.34	8.82	14.47	0.25

HEC-RAS River: Amboiana Reach: amboiana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
amboiana	50	Max WS	UF_TR200_D2	4.17	220.17	221.93		221.95	0.001141	0.91	0.39	0.33	9.32	14.47	0.23
amboiana	50	Max WS	UF_TR200_D3	4.38	220.17	221.86		221.89	0.001796	1.10	0.45	0.38	8.23	14.47	0.29
amboiana	40	Max WS	UF_TR200_D1	9.32	219.53	221.67		221.79	0.002129	1.64	0.41	0.21	8.04	10.49	0.40
amboiana	40	Max WS	UF_TR200_D2	9.86	219.53	221.70		221.82	0.002193	1.68	0.43	0.22	8.38	10.74	0.40
amboiana	40	Max WS	UF_TR200_D3	8.59	219.53	221.63		221.74	0.001977	1.56	0.38	0.20	7.68	10.21	0.38
amboiana	35														
				Culvert											
amboiana	30	Max WS	UF_TR200_D1	9.32	219.08	220.91	220.76	221.36	0.011053	3.03	0.73	0.28	3.47	3.69	0.82
amboiana	30	Max WS	UF_TR200_D2	9.86	219.08	220.94	220.83	221.42	0.011265	3.11	0.75	0.29	3.61	3.85	0.83
amboiana	30	Max WS	UF_TR200_D3	8.58	219.08	220.85	220.72	221.27	0.010760	2.92	0.70	0.26	3.28	3.48	0.80
amboiana	29														
				Lat Struct											
amboiana	28														
				Lat Struct											
amboiana	25	Max WS	UF_TR200_D1	8.89	218.61	220.11	220.20	220.44	0.010146	2.88	0.78	0.58	5.66	16.55	0.84
amboiana	25	Max WS	UF_TR200_D2	9.30	218.61	220.13	220.21	220.46	0.010005	2.89	0.77	0.62	5.99	16.64	0.84
amboiana	25	Max WS	UF_TR200_D3	8.34	218.61	220.08	220.18	220.42	0.010425	2.87	0.79	0.54	5.18	16.41	0.85
amboiana	20	Max WS	UF_TR200_D1	5.17	217.63	219.69		219.72	0.001212	0.98	0.32	0.29	10.17	19.49	0.24
amboiana	20	Max WS	UF_TR200_D2	5.26	217.63	219.70		219.73	0.001190	0.97	0.32	0.29	10.41	19.49	0.23
amboiana	20	Max WS	UF_TR200_D3	4.95	217.63	219.66		219.69	0.001237	0.98	0.31	0.28	9.73	19.49	0.24
amboiana	17.5														
				Culvert											
amboiana	15	Max WS	UF_TR200_D1	5.17	217.63	219.01		219.58	0.014499	3.32			1.56	2.78	0.93
amboiana	15	Max WS	UF_TR200_D2	5.26	217.63	219.03		219.60	0.014575	3.35			1.57	2.83	0.93
amboiana	15	Max WS	UF_TR200_D3	4.95	217.63	218.99		219.53	0.014087	3.24			1.53	2.69	0.92
amboiana	14	Max WS	UF_TR200_D1	8.40	217.51	218.50		218.56	0.003564	1.38	0.48	0.61	10.14	19.72	0.51
amboiana	14	Max WS	UF_TR200_D2	8.83	217.51	218.52		218.58	0.003488	1.39	0.49	0.62	10.57	19.82	0.51
amboiana	14	Max WS	UF_TR200_D3	7.95	217.51	218.47		218.53	0.003793	1.39	0.47	0.61	9.55	19.59	0.52
amboiana	13	Max WS	UF_TR200_D1	9.03	216.84	218.13	218.16	218.34	0.007632	2.34	0.48	0.54	7.14	22.46	0.75
amboiana	13	Max WS	UF_TR200_D2	9.58	216.84	218.15	218.17	218.36	0.007521	2.35	0.49	0.57	7.64	22.79	0.74
amboiana	13	Max WS	UF_TR200_D3	8.41	216.84	218.11	218.14	218.32	0.007568	2.29	0.45	0.51	6.65	22.14	0.74
amboiana	10	Max WS	UF_TR200_D1	4.19	216.16	218.05	217.08	218.06	0.000204	0.48	0.19	0.19	15.44	16.77	0.12
amboiana	10	Max WS	UF_TR200_D2	4.24	216.16	218.08	217.09	218.08	0.000192	0.47	0.19	0.19	15.91	16.77	0.12
amboiana	10	Max WS	UF_TR200_D3	4.13	216.16	218.02	217.08	218.03	0.000216	0.49	0.19	0.19	14.98	16.77	0.12
amboiana	7.5														
				Bridge											
amboiana	5	Max WS	UF_TR200_D1	4.34	215.87	217.15		217.35	0.007301	2.00			2.18	4.68	0.67
amboiana	5	Max WS	UF_TR200_D2	4.24	215.87	217.15		217.34	0.006848	1.94			2.19	4.80	0.65
amboiana	5	Max WS	UF_TR200_D3	4.13	215.87	217.13		217.32	0.007097	1.94			2.13	4.46	0.66
amboiana	2	Max WS	UF_TR200_D1	5.88	215.70	216.97	216.81	217.12	0.007097	1.71	0.26	0.18	4.07	16.32	0.66
amboiana	2	Max WS	UF_TR200_D2	6.05	215.70	216.98	216.82	217.13	0.007094	1.73	0.27	0.19	4.23	16.77	0.66
amboiana	2	Max WS	UF_TR200_D3	5.58	215.70	216.96	216.79	217.10	0.007064	1.68	0.22	0.20	3.81	14.56	0.66

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

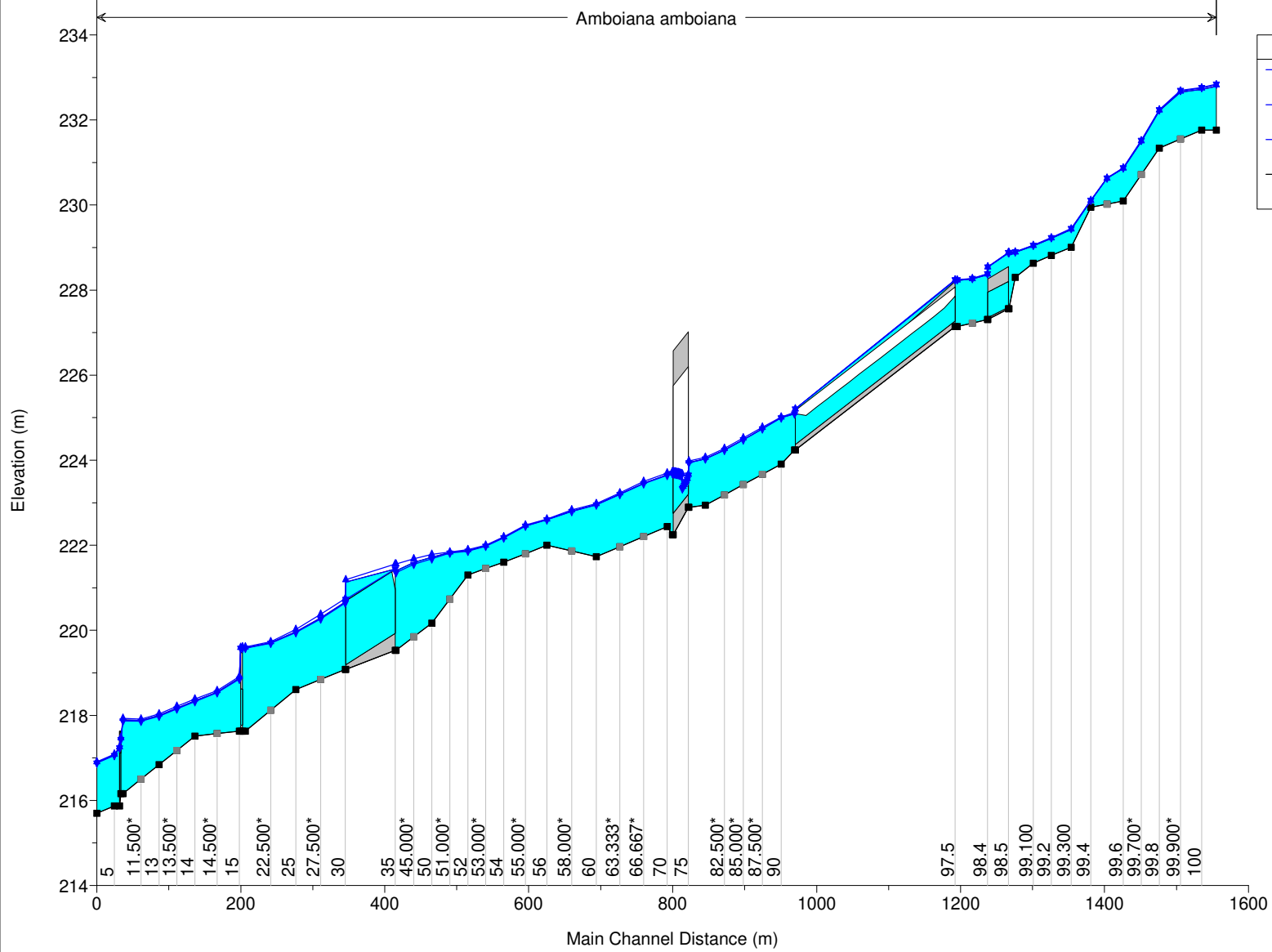
Profilo longitudinale

Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1

Amboiana amboiana

Legend

- WS Max WS - UF_TR30_D2
- WS Max WS - UF_TR30_D3
- WS Max WS - UF_TR30_D1
- Ground



ALLEGATI

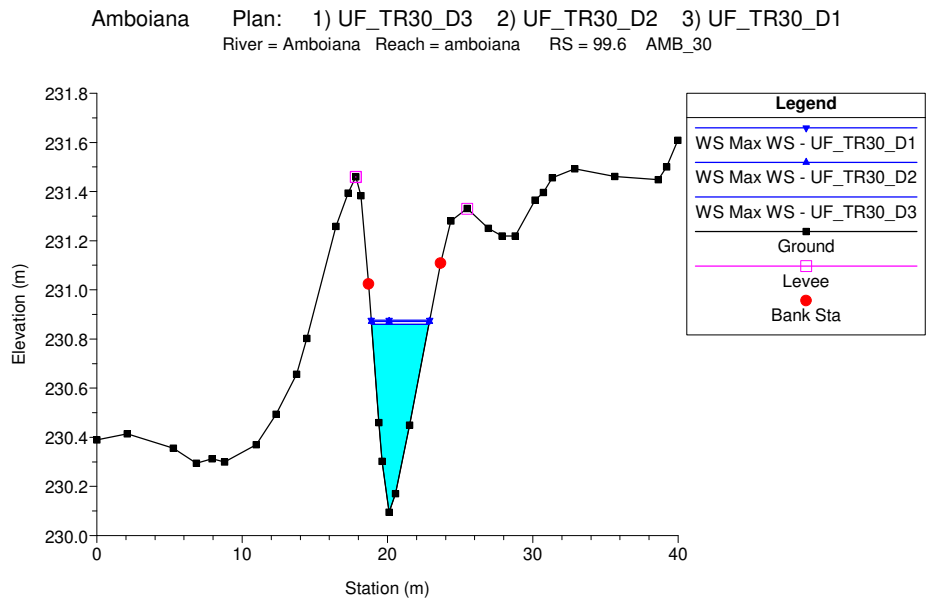
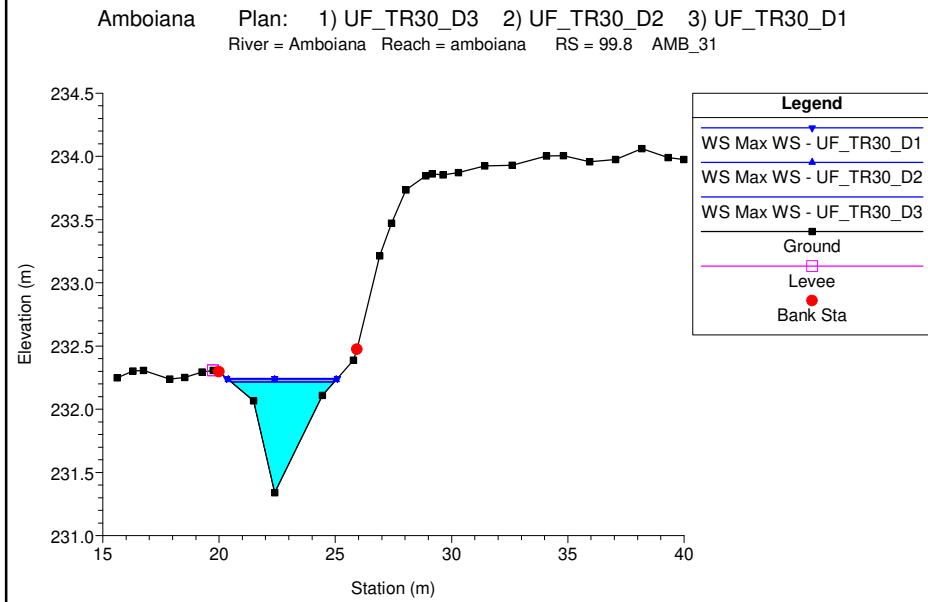
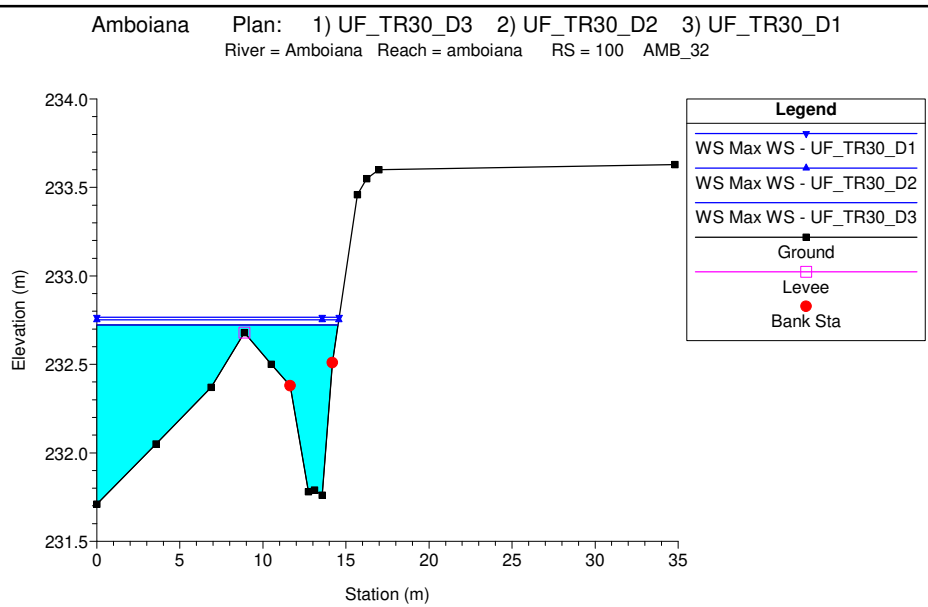
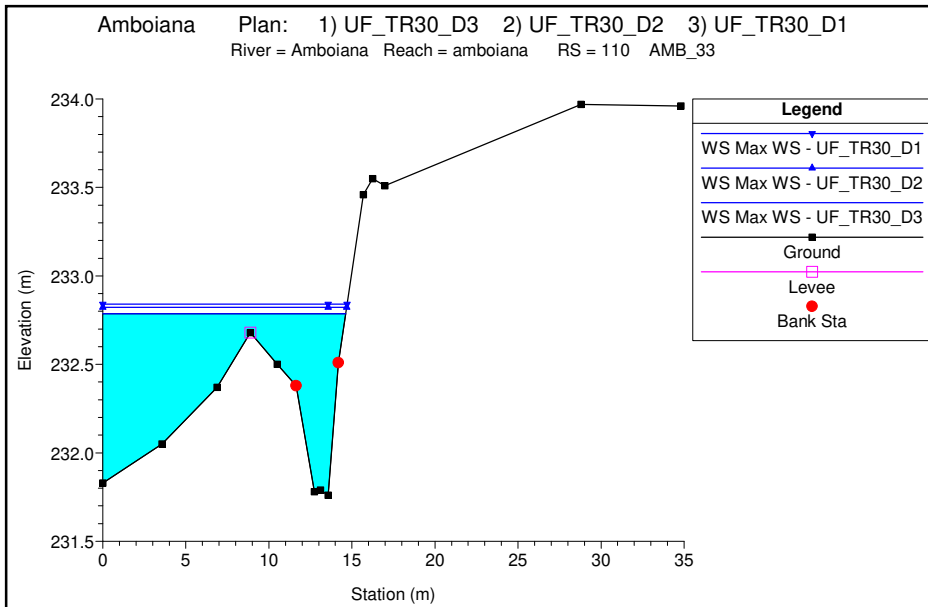
MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

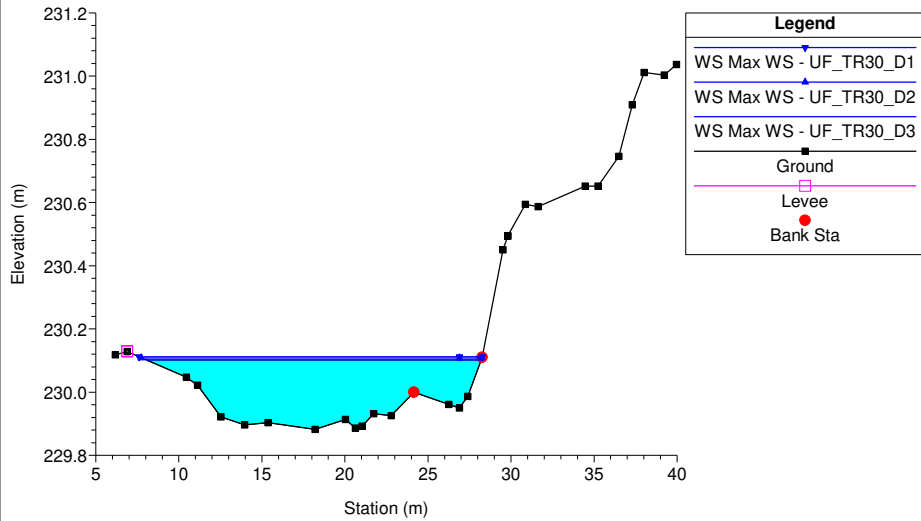
MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

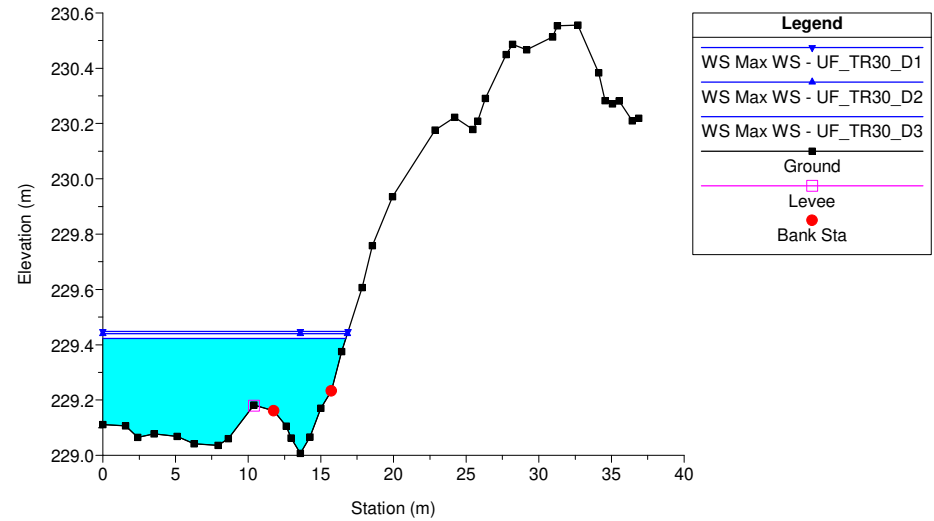
Sezioni Trasversali (da monte verso valle)



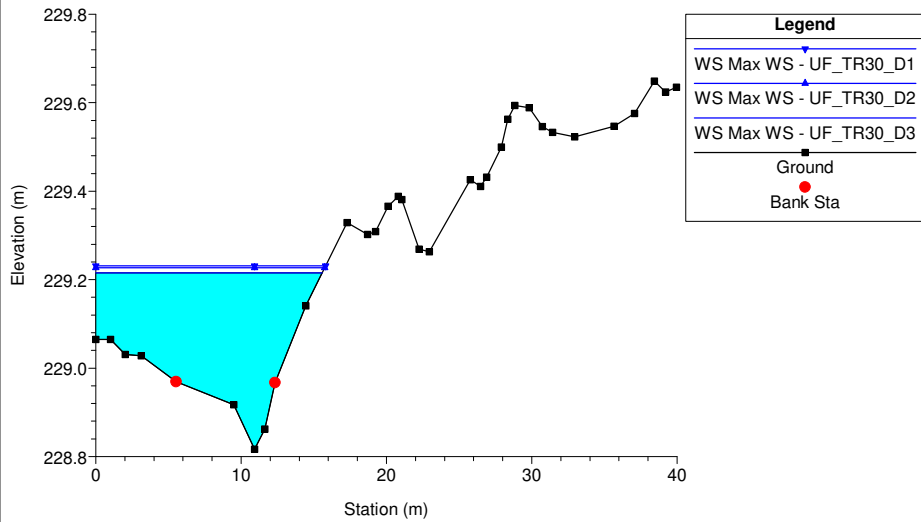
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 99.4 AMB_29



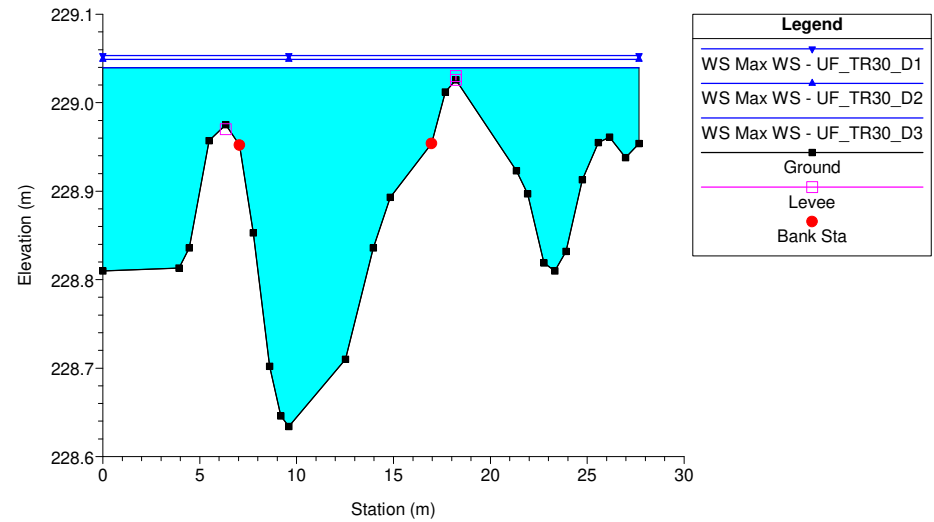
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 99.300 AMB_28



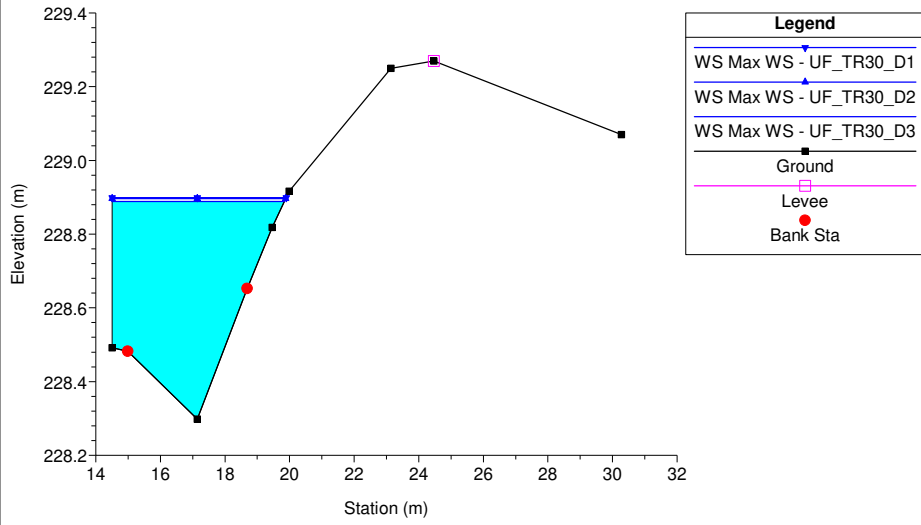
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 99.2 AMB_27



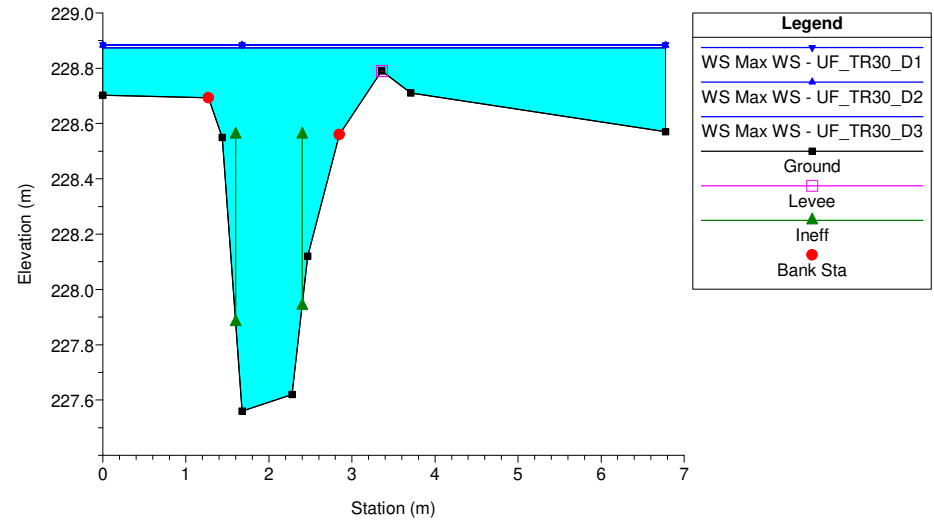
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 99.100 AMB_26



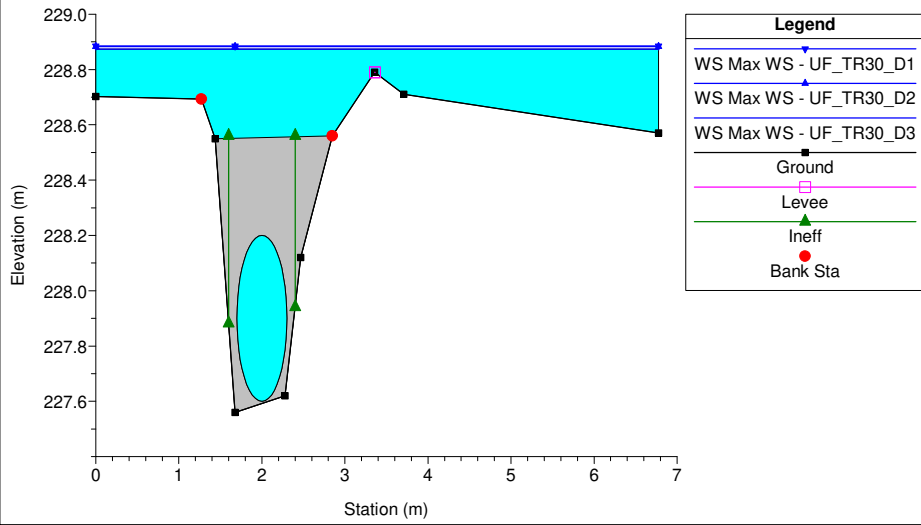
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 99 AMB_25



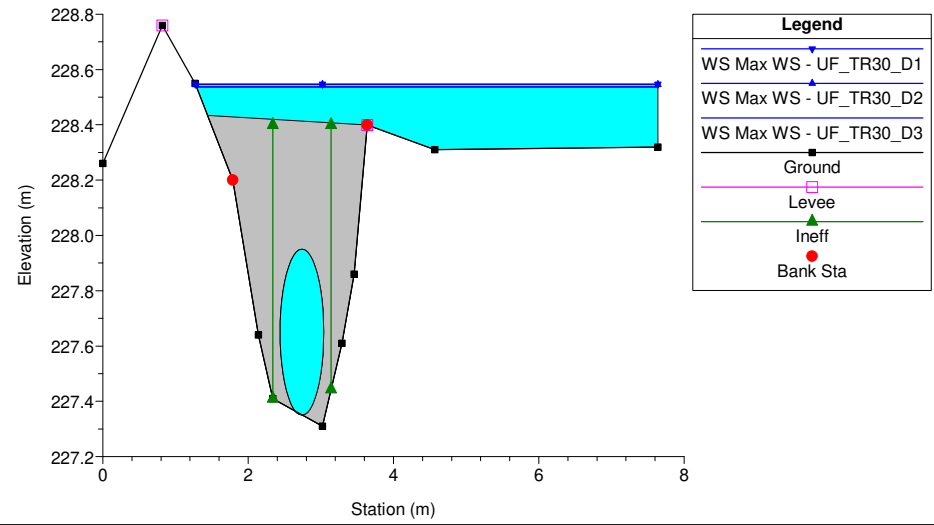
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 98.6 AMB_24

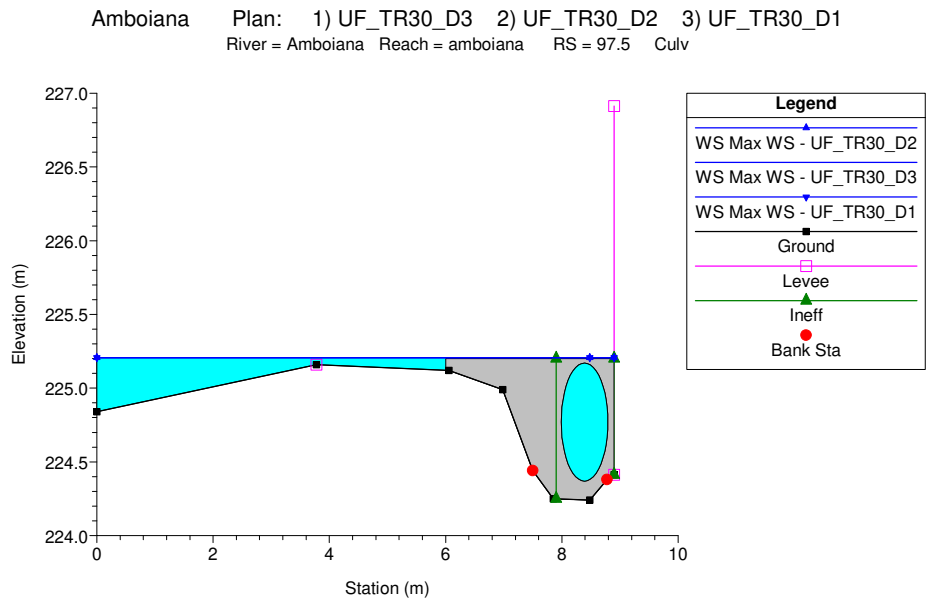
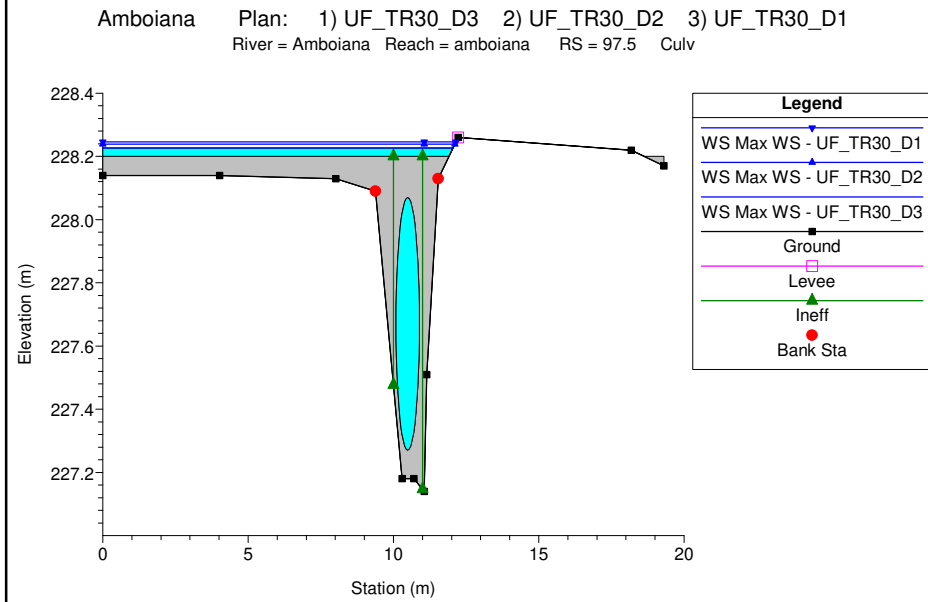
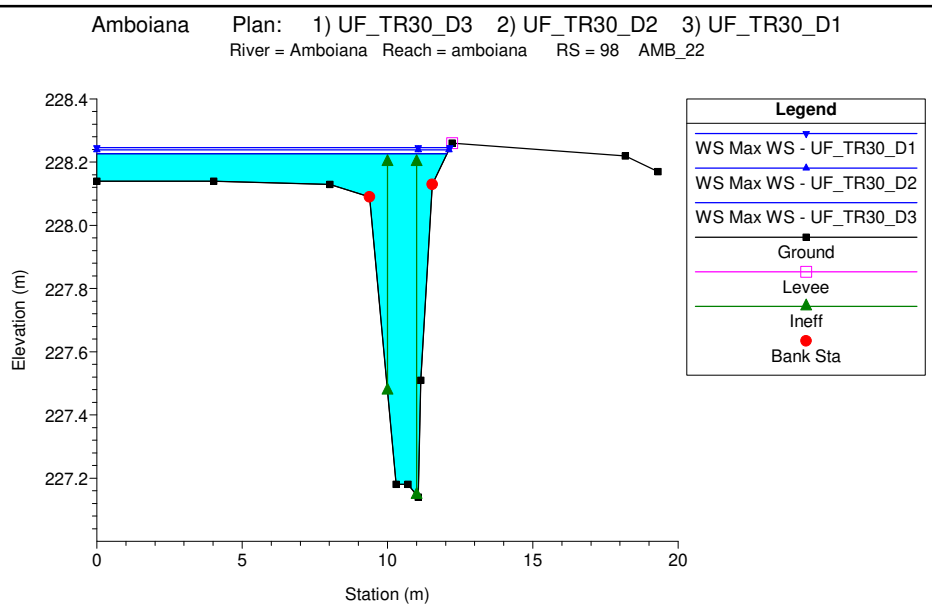
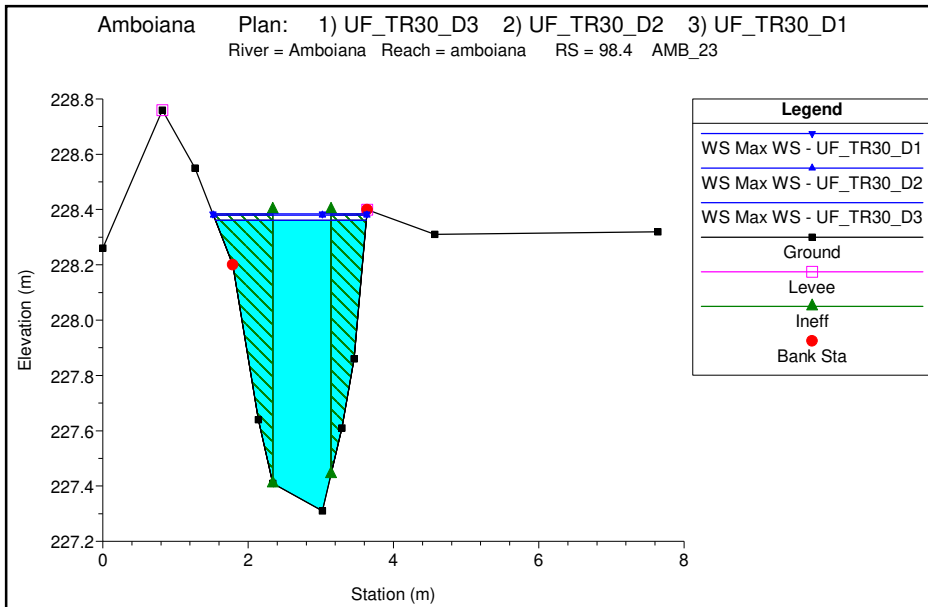


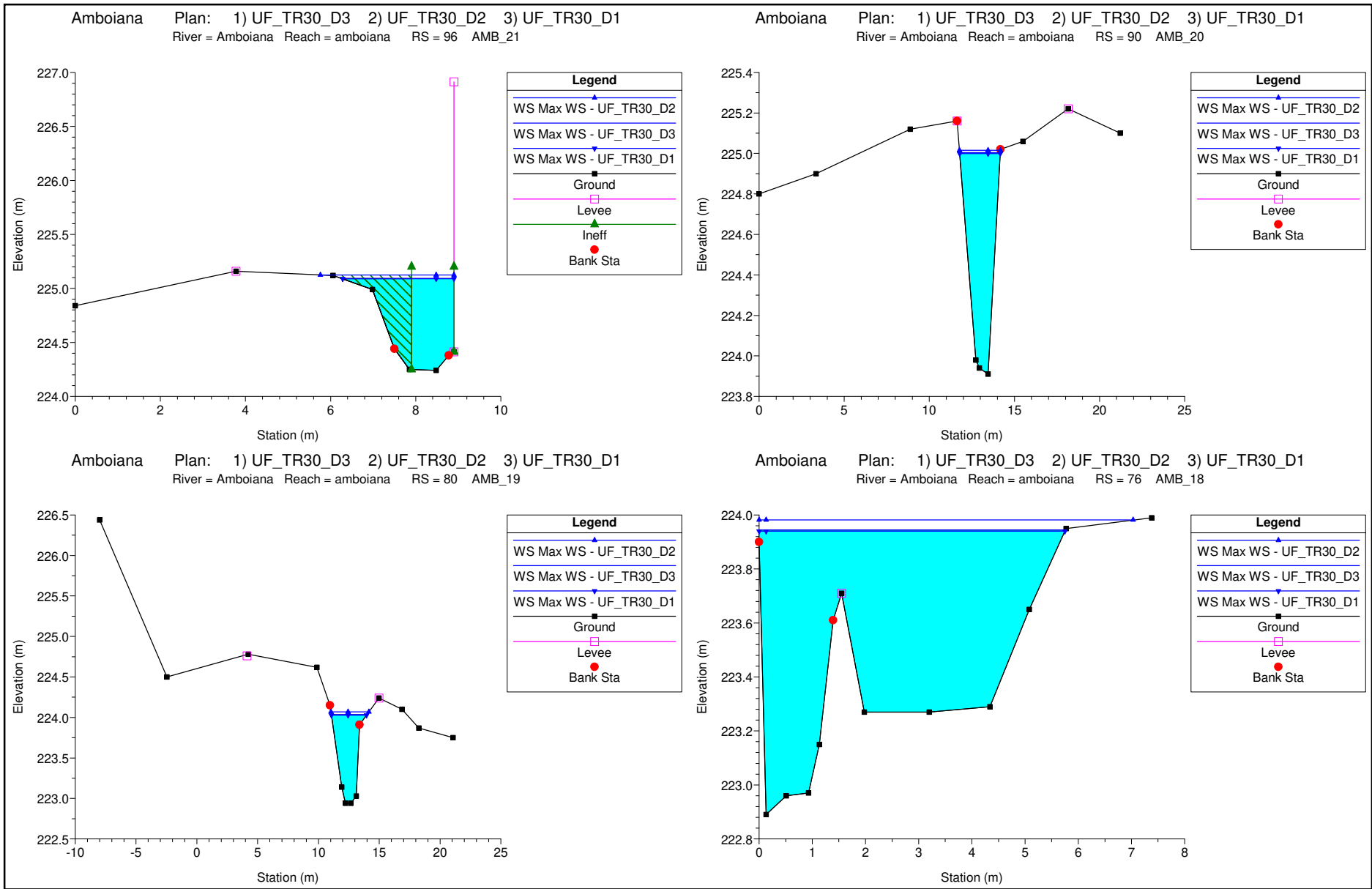
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 98.5 Culv



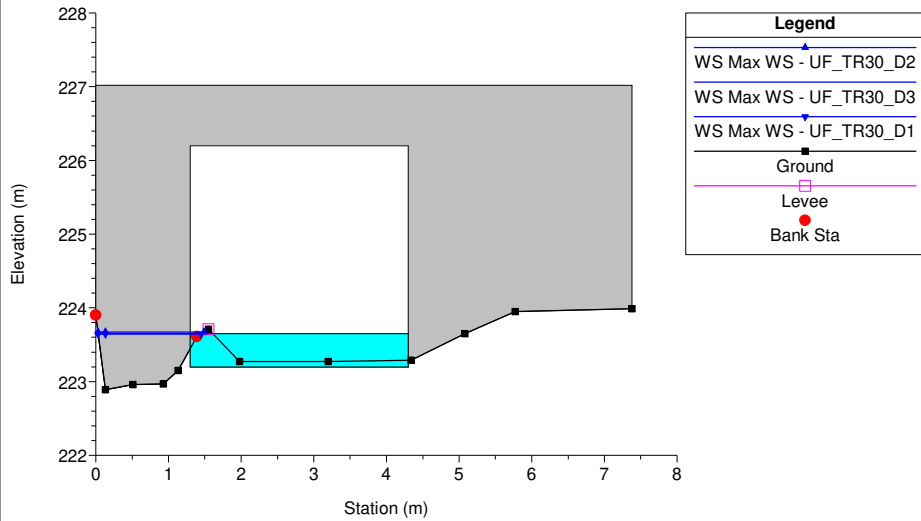
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 98.5 Culv



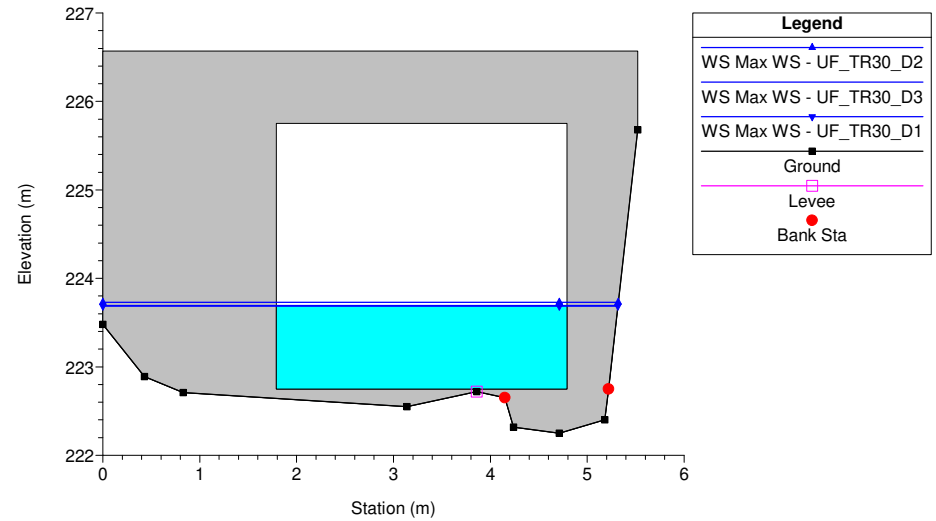




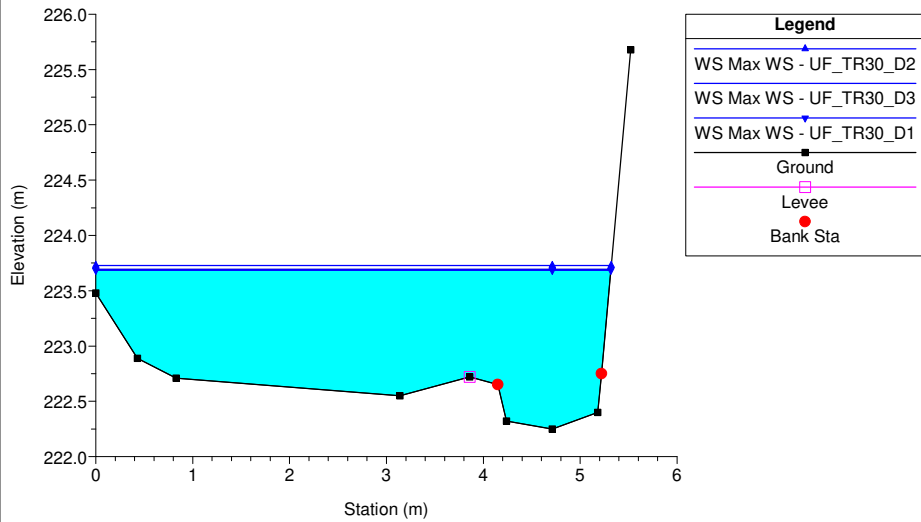
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 75 Culv



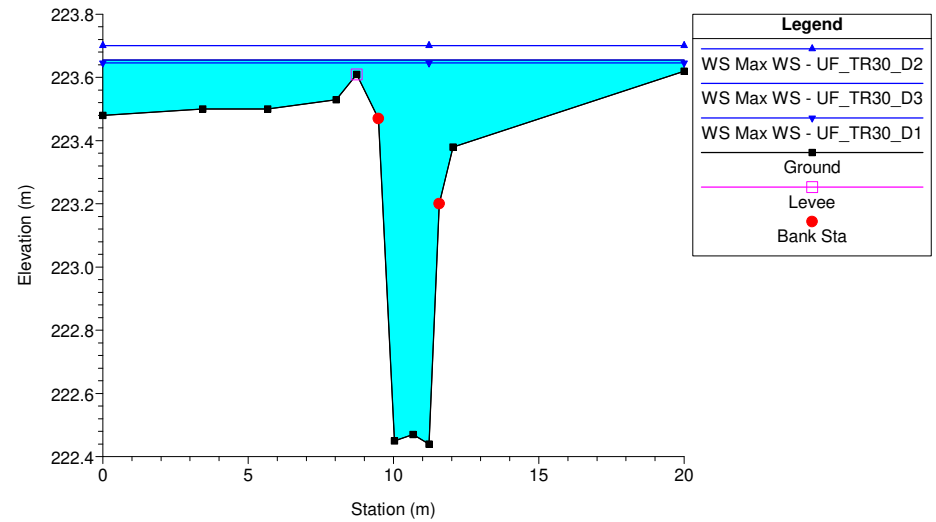
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 75 Culv

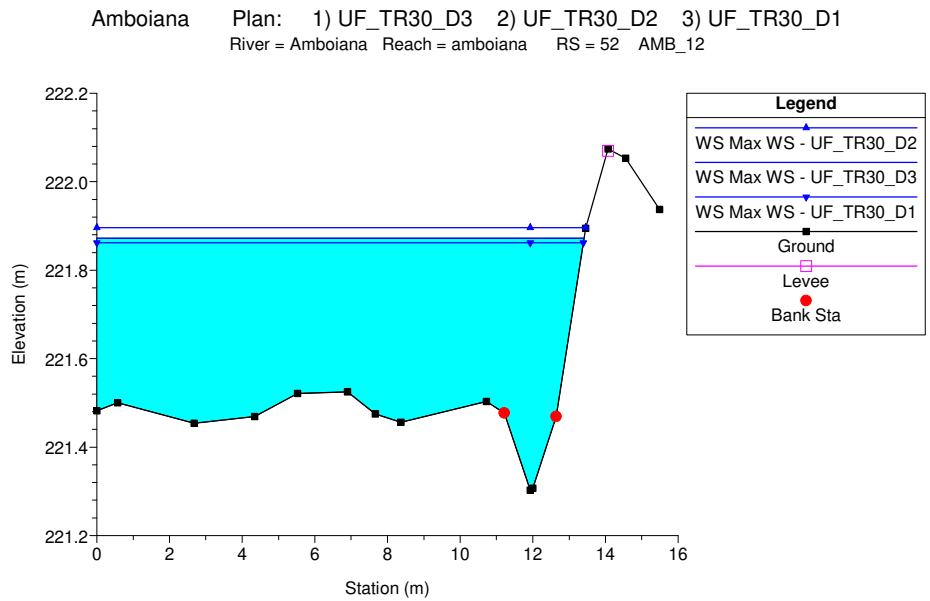
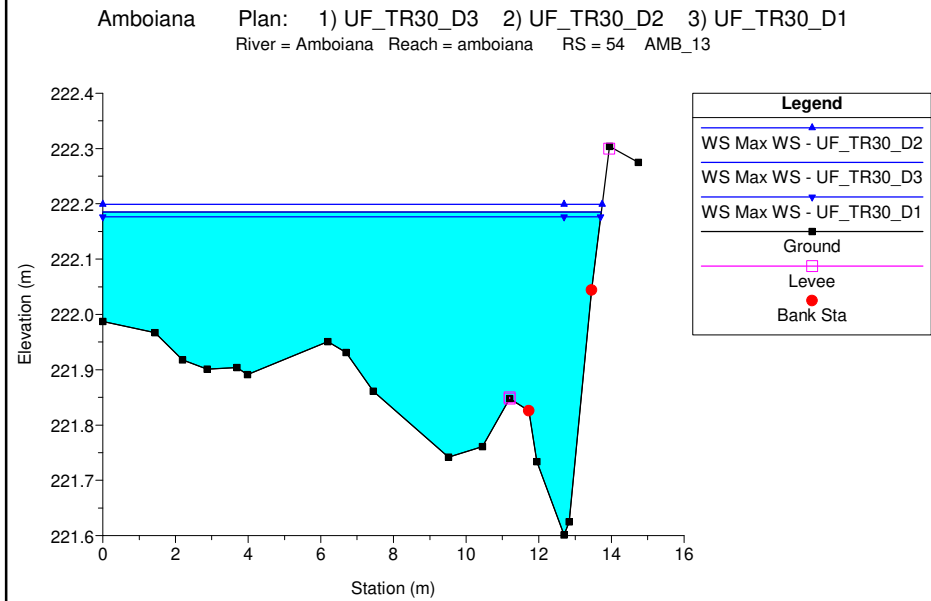
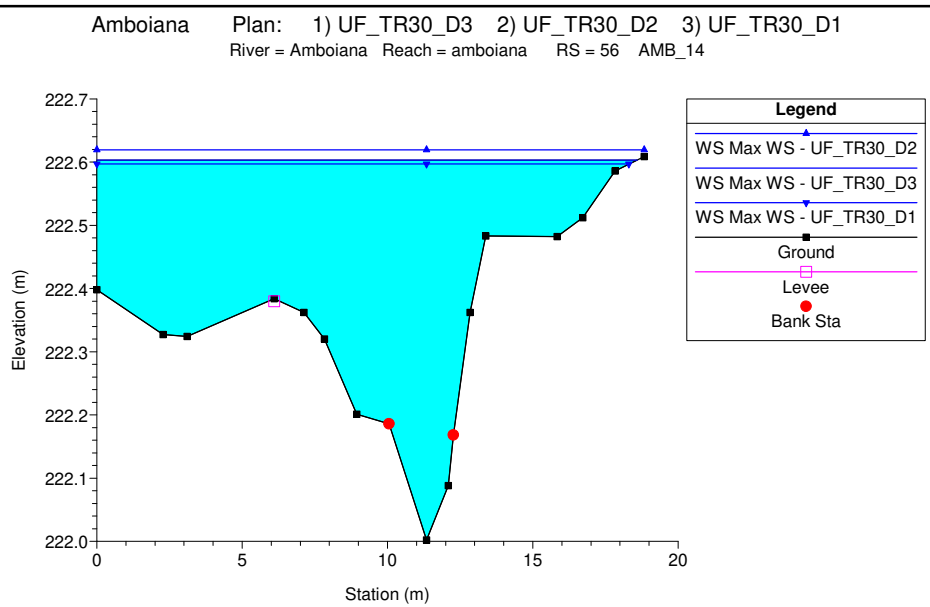
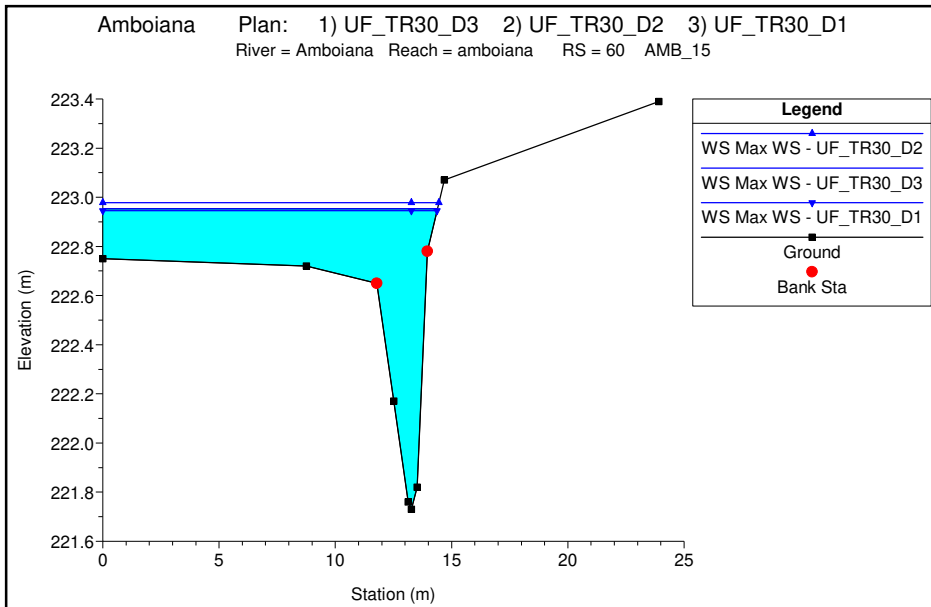


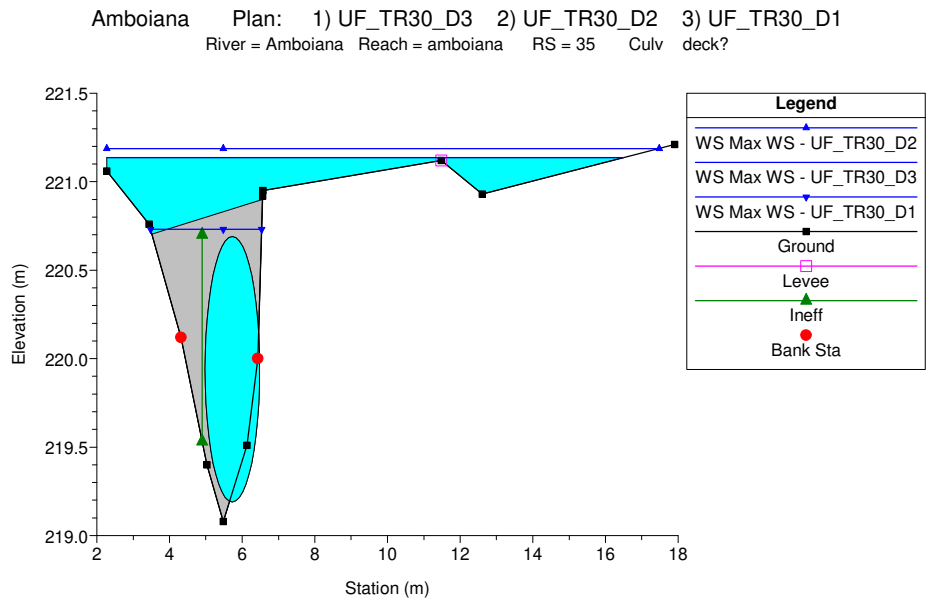
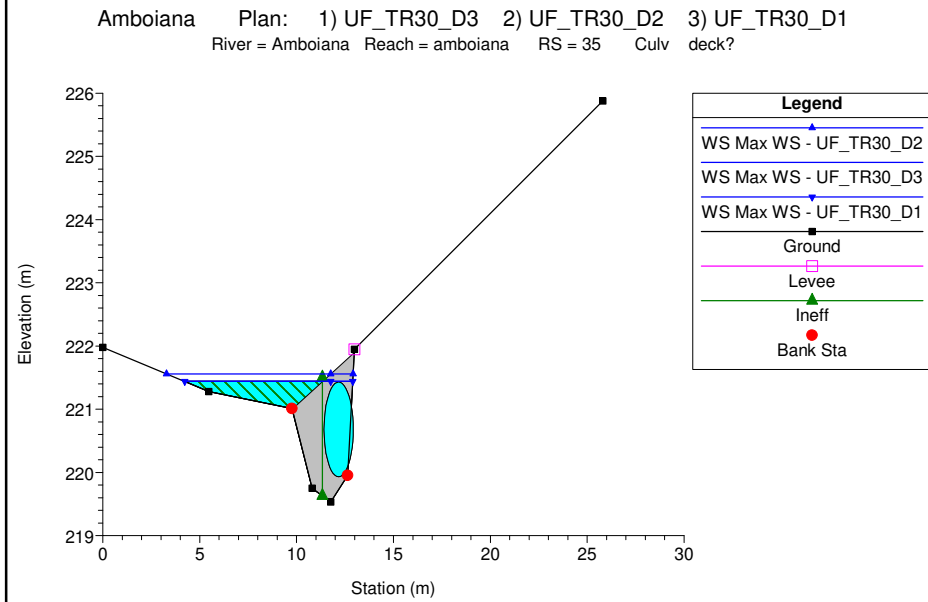
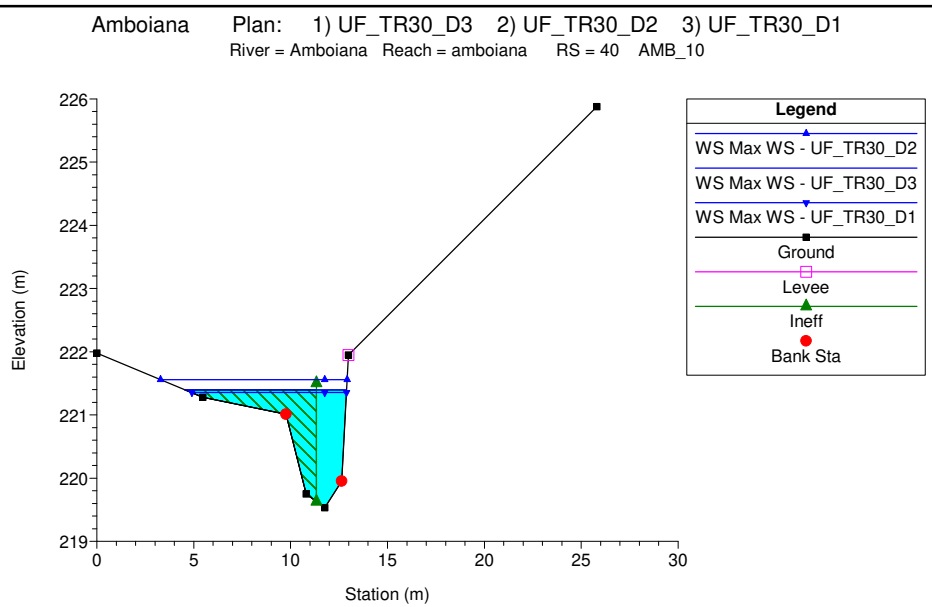
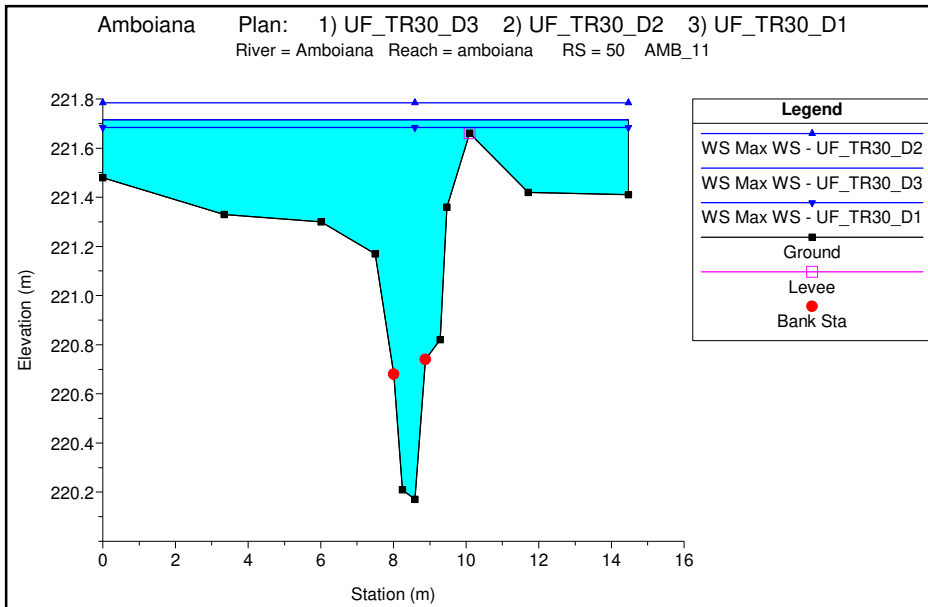
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 73 AMB_17

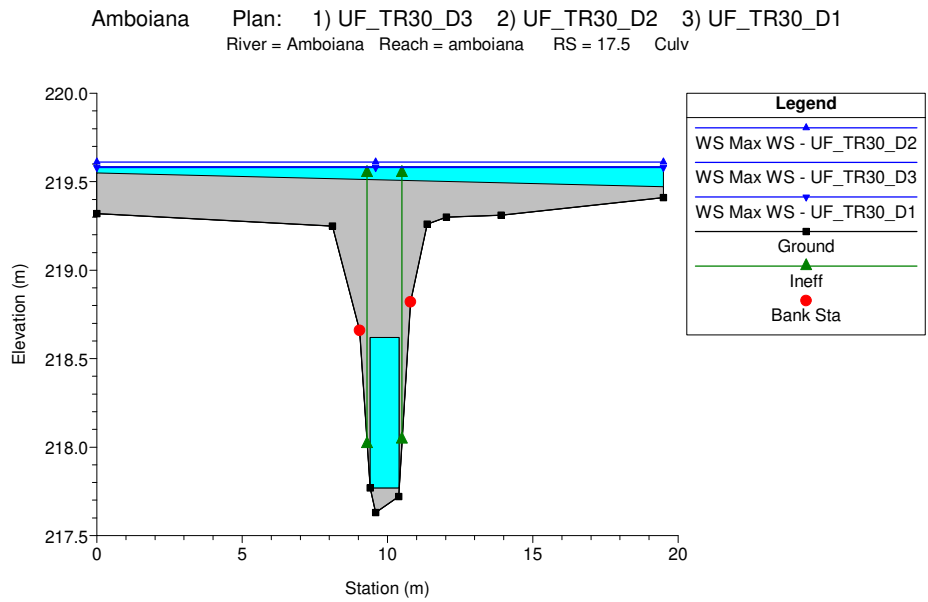
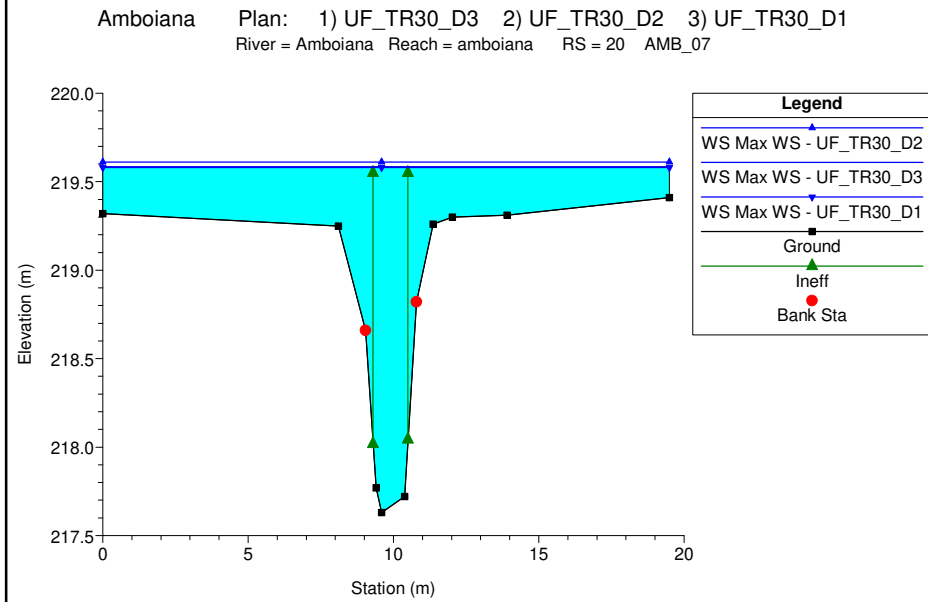
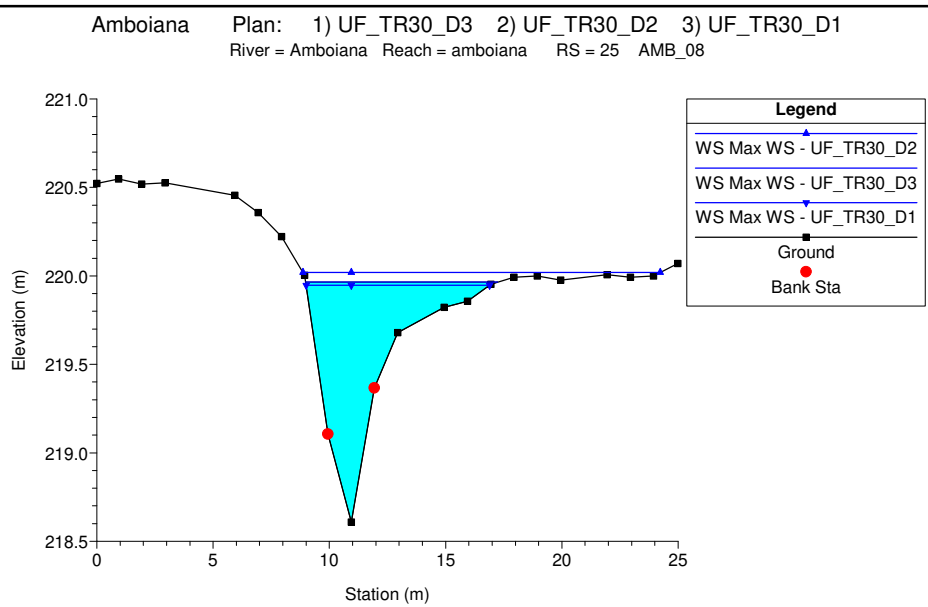
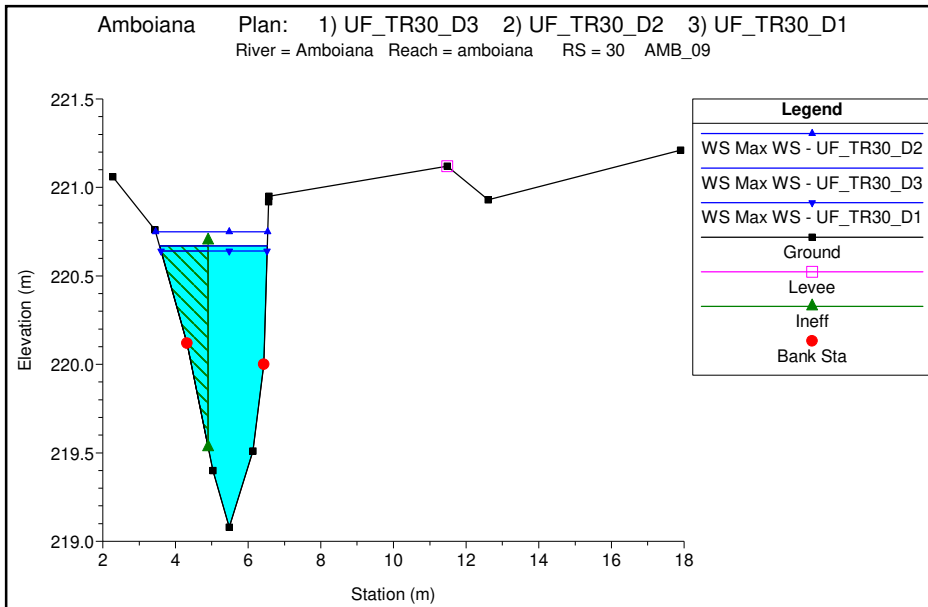


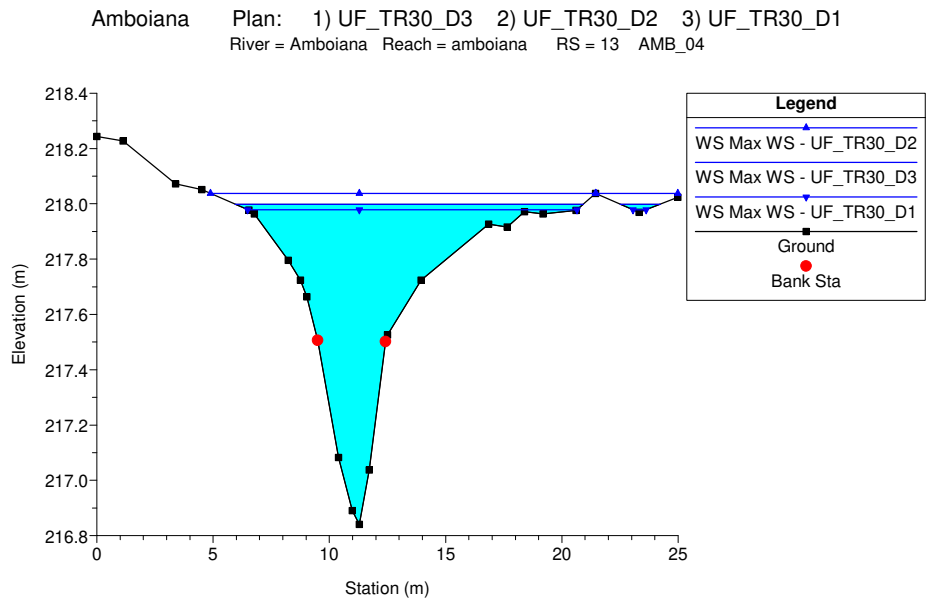
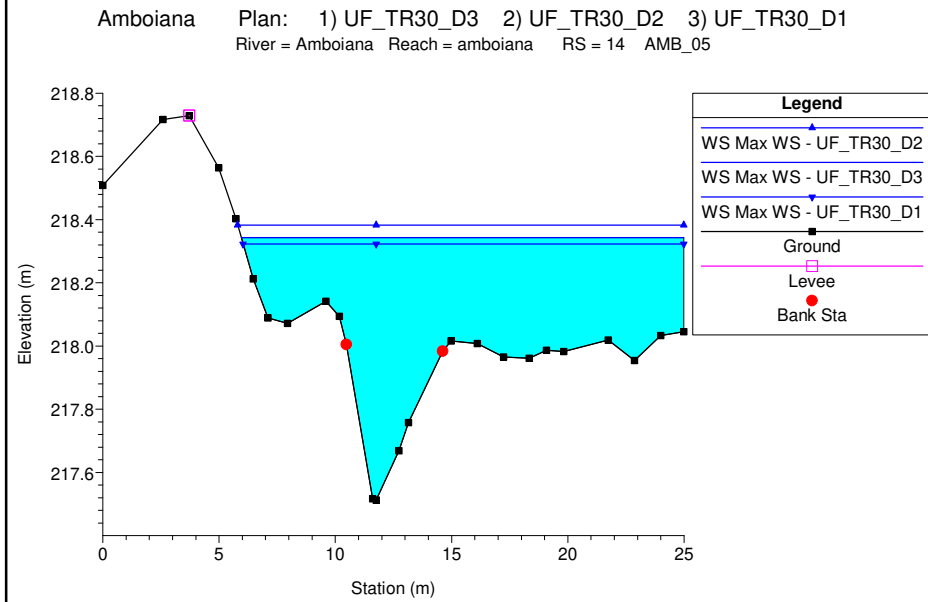
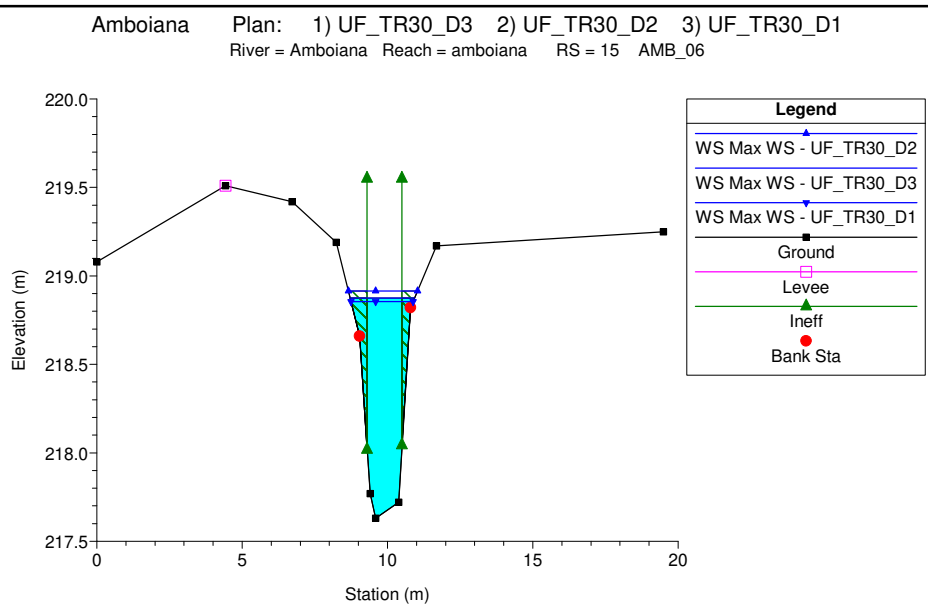
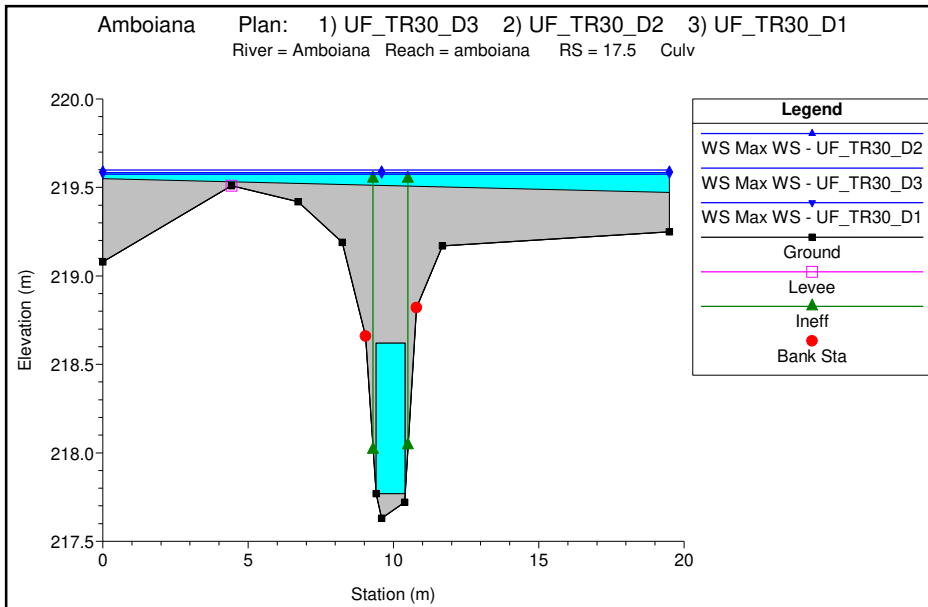
Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
 River = Amboiana Reach = amboiana RS = 70 AMB_16

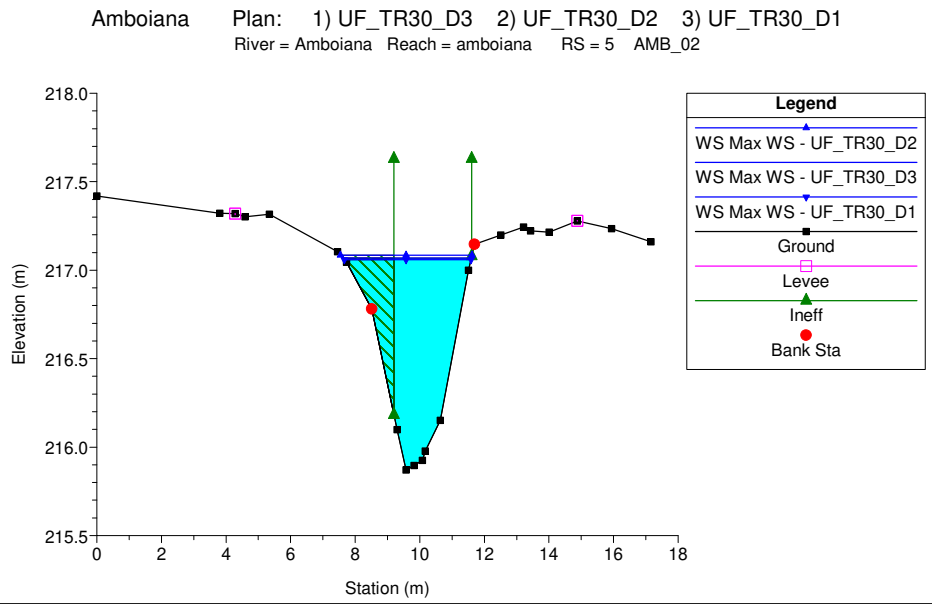
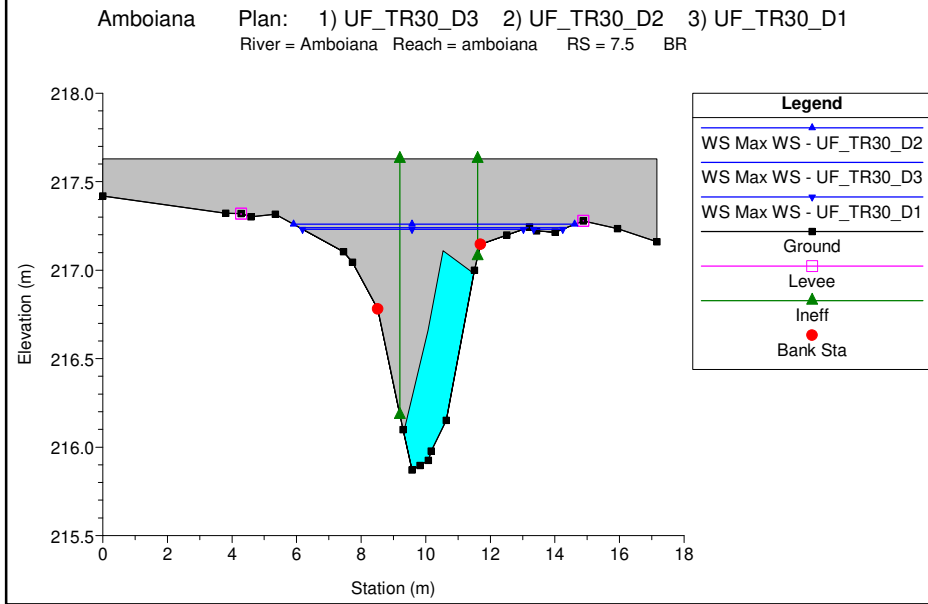
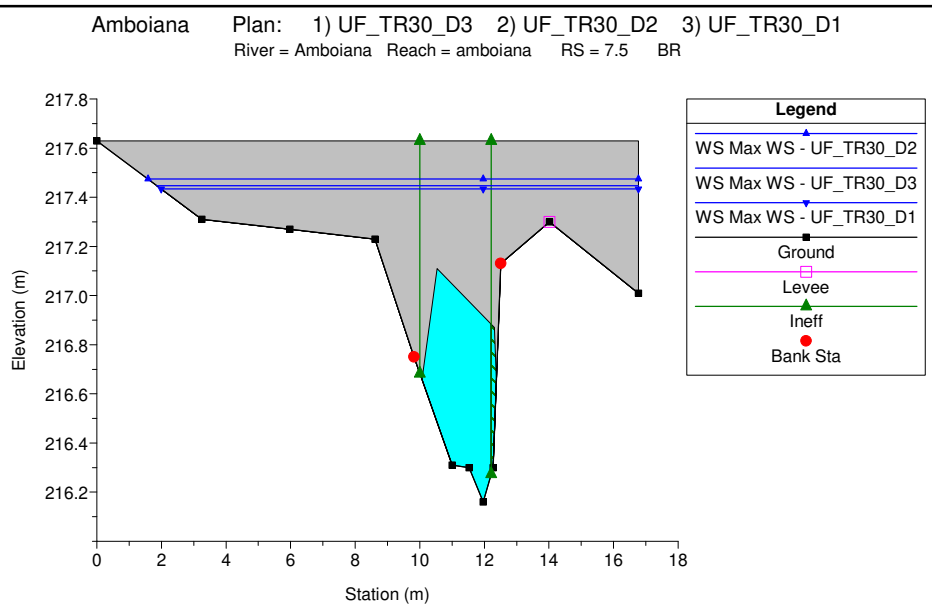
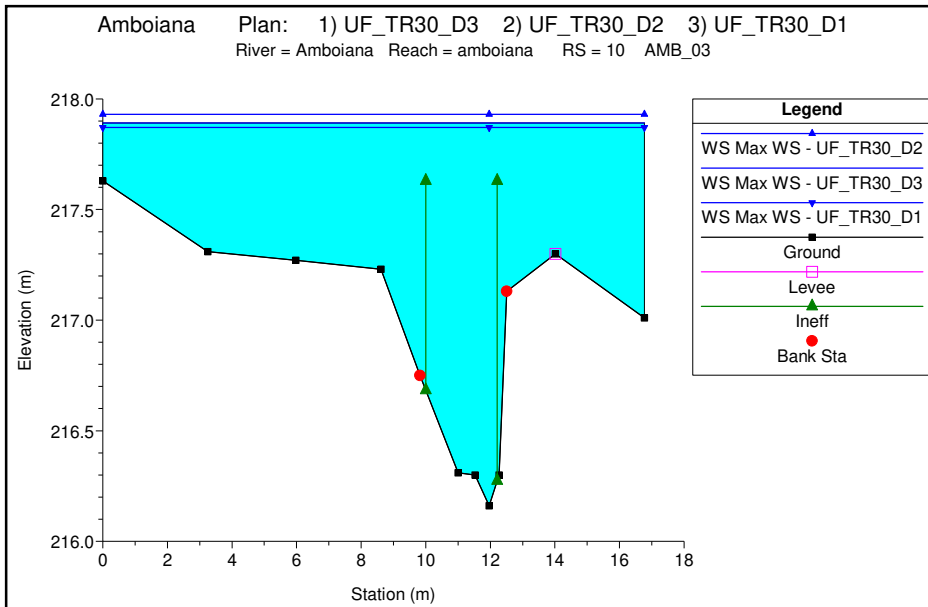




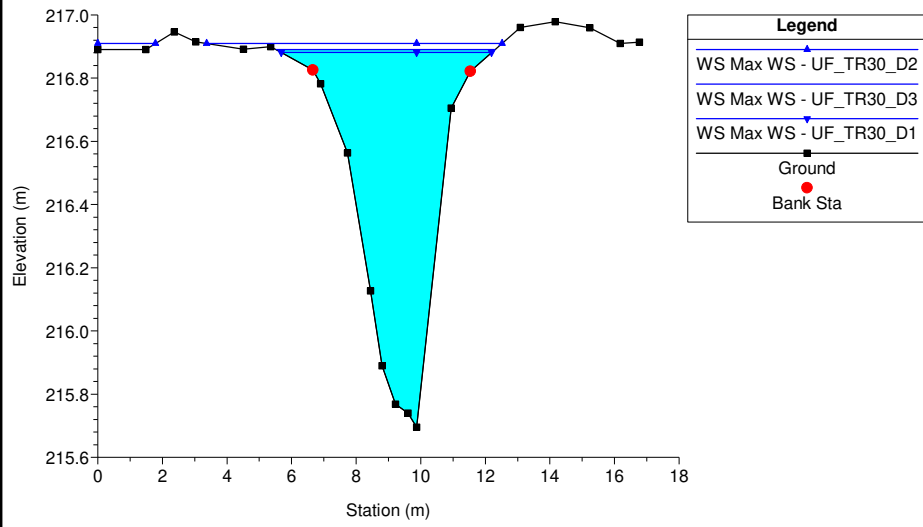








Amboiana Plan: 1) UF_TR30_D3 2) UF_TR30_D2 3) UF_TR30_D1
River = Amboiana Reach = amboiana RS = 2 AMB_01



ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Amboiana"

FOSSO AMBOIANA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Amboiana Reach: amboiana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
amboiana	52	Max WS	UF_TR30_D3	2.80	221.30	221.87		221.89	0.003085	0.96	0.48	0.29	5.19	13.41	0.44
amboiana	52	Max WS	UF_TR30_D2	2.98	221.30	221.90		221.92	0.002895	0.96	0.48	0.29	5.51	13.46	0.43
amboiana	52	Max WS	UF_TR30_D1	2.89	221.30	221.86		221.88	0.003565	1.02	0.51	0.31	5.05	13.39	0.47
amboiana	50	Max WS	UF_TR30_D3	4.36	220.17	221.72		221.77	0.003943	1.53	0.55	0.44	6.15	14.47	0.42
amboiana	50	Max WS	UF_TR30_D2	3.81	220.17	221.78		221.81	0.002014	1.13	0.44	0.36	7.15	14.47	0.30
amboiana	50	Max WS	UF_TR30_D1	4.34	220.17	221.68		221.75	0.004767	1.66	0.58	0.45	5.70	14.47	0.46
amboiana	40	Max WS	UF_TR30_D3	5.93	219.53	221.40		221.75	0.004578	2.62		0.28	2.42	8.34	0.64
amboiana	40	Max WS	UF_TR30_D2	7.19	219.53	221.56		221.65	0.001677	1.39	0.32	0.18	6.97	9.64	0.35
amboiana	40	Max WS	UF_TR30_D1	3.78	219.53	221.35		221.50	0.002030	1.72		0.18	2.35	7.98	0.42
amboiana	35														
				Culvert											
amboiana	30	Max WS	UF_TR30_D3	5.93	219.08	220.67		221.13	0.012033	3.01		0.24	2.00	2.96	0.85
amboiana	30	Max WS	UF_TR30_D2	7.15	219.08	220.75		221.10	0.009917	2.65	0.67	0.23	2.94	3.08	0.76
amboiana	30	Max WS	UF_TR30_D1	5.69	219.08	220.64		221.09	0.011951	2.95		0.23	1.95	2.92	0.84
amboiana	29														
				Lat Struct											
amboiana	28														
				Lat Struct											
amboiana	25	Max WS	UF_TR30_D3	5.91	218.61	219.96	219.93	220.22	0.008550	2.42	0.72	0.52	3.55	8.26	0.76
amboiana	25	Max WS	UF_TR30_D2	6.94	218.61	220.02	219.95	220.34	0.009939	2.71	0.79	0.41	4.19	15.37	0.82
amboiana	25	Max WS	UF_TR30_D1	5.64	218.61	219.95	219.92	220.20	0.008349	2.37	0.70	0.51	3.42	7.89	0.75
amboiana	20	Max WS	UF_TR30_D3	3.97	217.63	219.58		219.61	0.001156	0.92	0.26	0.23	8.19	19.49	0.23
amboiana	20	Max WS	UF_TR30_D2	4.31	217.63	219.61		219.64	0.001194	0.94	0.28	0.25	8.73	19.49	0.23
amboiana	20	Max WS	UF_TR30_D1	3.83	217.63	219.58		219.61	0.001100	0.89	0.26	0.22	8.11	19.49	0.22
amboiana	17.5														
				Culvert											
amboiana	15	Max WS	UF_TR30_D3	4.00	217.63	218.88		219.30	0.012714	2.88			1.39	2.21	0.86
amboiana	15	Max WS	UF_TR30_D2	4.31	217.63	218.92		219.37	0.013169	3.00			1.44	2.38	0.88
amboiana	15	Max WS	UF_TR30_D1	3.83	217.63	218.85		219.26	0.012325	2.80			1.36	2.13	0.84
amboiana	14	Max WS	UF_TR30_D3	5.75	217.51	218.34		218.40	0.004666	1.35	0.41	0.55	7.07	19.04	0.56
amboiana	14	Max WS	UF_TR30_D2	6.44	217.51	218.38		218.44	0.004387	1.37	0.44	0.58	7.84	19.19	0.55
amboiana	14	Max WS	UF_TR30_D1	5.49	217.51	218.32		218.39	0.004938	1.36	0.40	0.55	6.70	18.96	0.57
amboiana	13	Max WS	UF_TR30_D3	5.89	216.84	218.00	217.91	218.18	0.006972	2.03	0.42	0.38	4.41	16.69	0.70
amboiana	13	Max WS	UF_TR30_D2	6.62	216.84	218.04	217.95	218.23	0.007077	2.11	0.41	0.42	5.12	20.08	0.71
amboiana	13	Max WS	UF_TR30_D1	5.59	216.84	217.98	217.88	218.16	0.006981	2.00	0.43	0.36	4.10	14.74	0.69
amboiana	10	Max WS	UF_TR30_D3	3.84	216.16	217.89	217.04	217.90	0.000287	0.53	0.19	0.20	12.81	16.77	0.14
amboiana	10	Max WS	UF_TR30_D2	3.91	216.16	217.93	217.05	217.94	0.000261	0.52	0.19	0.20	13.46	16.77	0.13
amboiana	10	Max WS	UF_TR30_D1	3.80	216.16	217.87	217.04	217.88	0.000304	0.54	0.20	0.20	12.45	16.77	0.14
amboiana	7.5														
				Bridge											
amboiana	5	Max WS	UF_TR30_D3	3.84	215.87	217.07		217.26	0.007689	1.93			1.98	3.98	0.68
amboiana	5	Max WS	UF_TR30_D2	3.91	215.87	217.09		217.28	0.007516	1.93			2.03	4.08	0.67
amboiana	5	Max WS	UF_TR30_D1	3.80	215.87	217.06		217.25	0.007758	1.94			1.96	3.93	0.68
amboiana	2	Max WS	UF_TR30_D3	4.58	215.70	216.89	216.68	217.02	0.007063	1.57	0.14	0.15	2.98	6.79	0.65
amboiana	2	Max WS	UF_TR30_D2	4.85	215.70	216.91	216.70	217.04	0.007080	1.60	0.11	0.17	3.17	10.93	0.65
amboiana	2	Max WS	UF_TR30_D1	4.45	215.70	216.88	216.66	217.00	0.007035	1.55	0.13	0.13	2.92	6.51	0.64

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

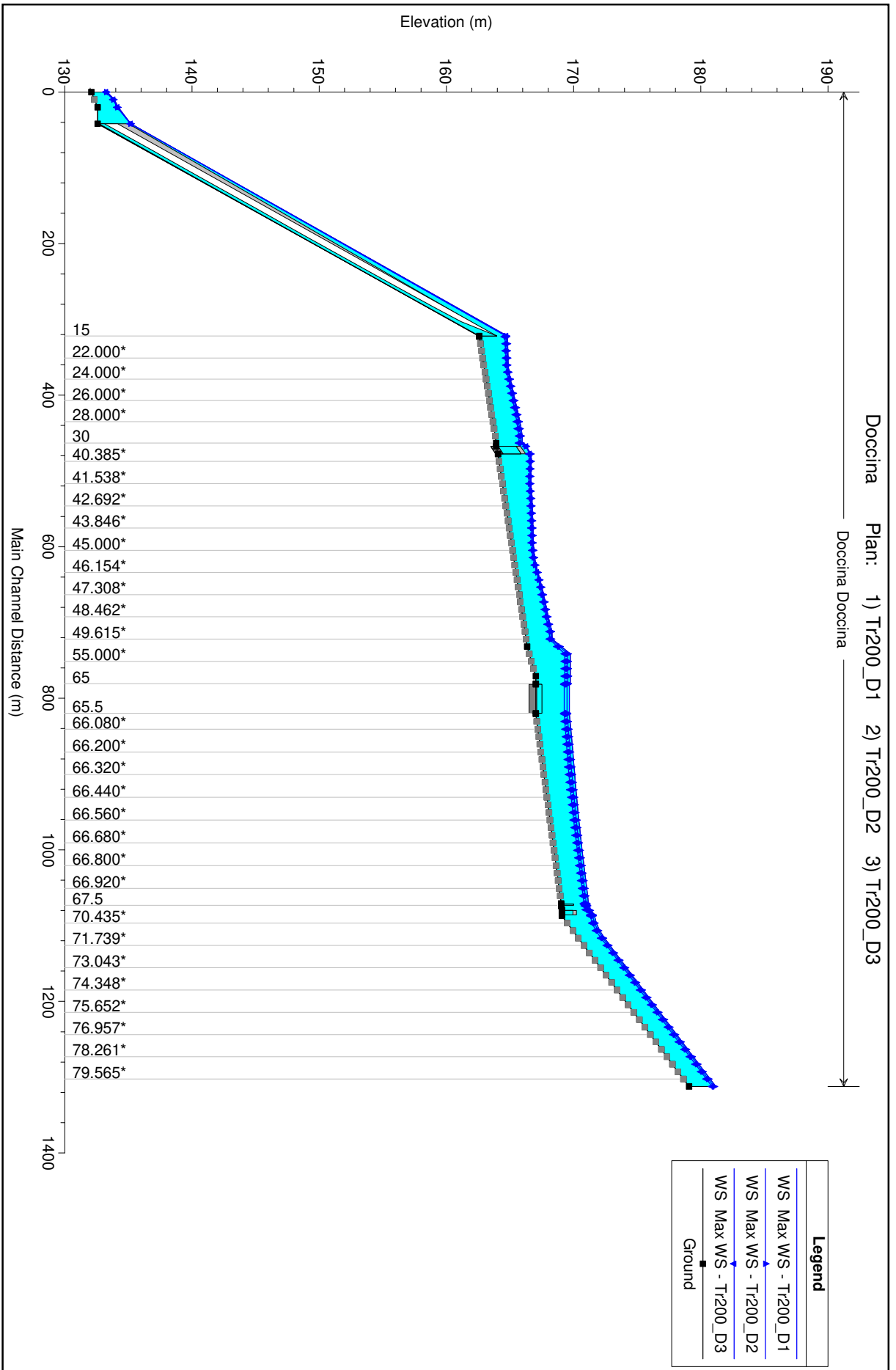
MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale



ALLEGATI

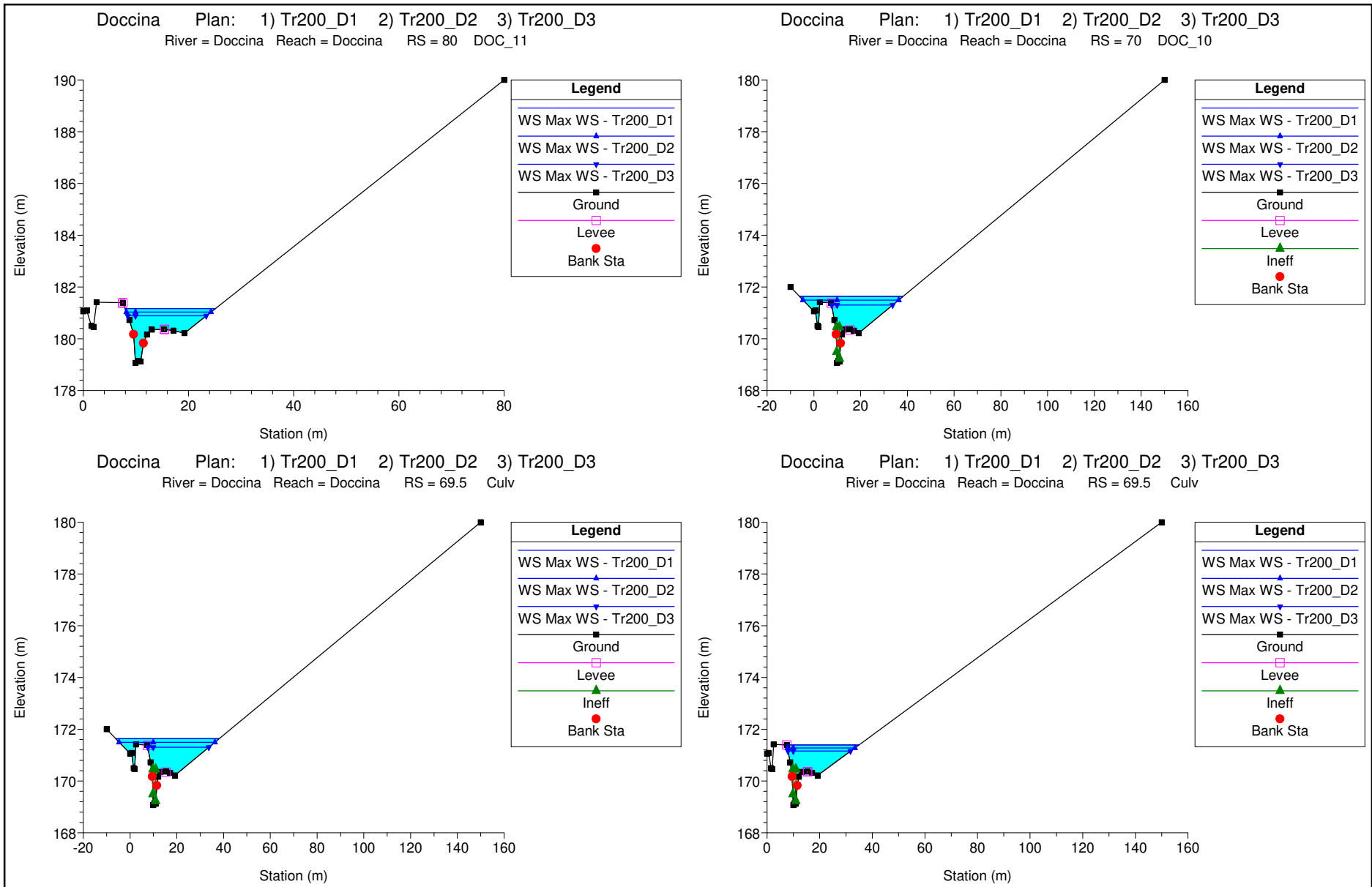
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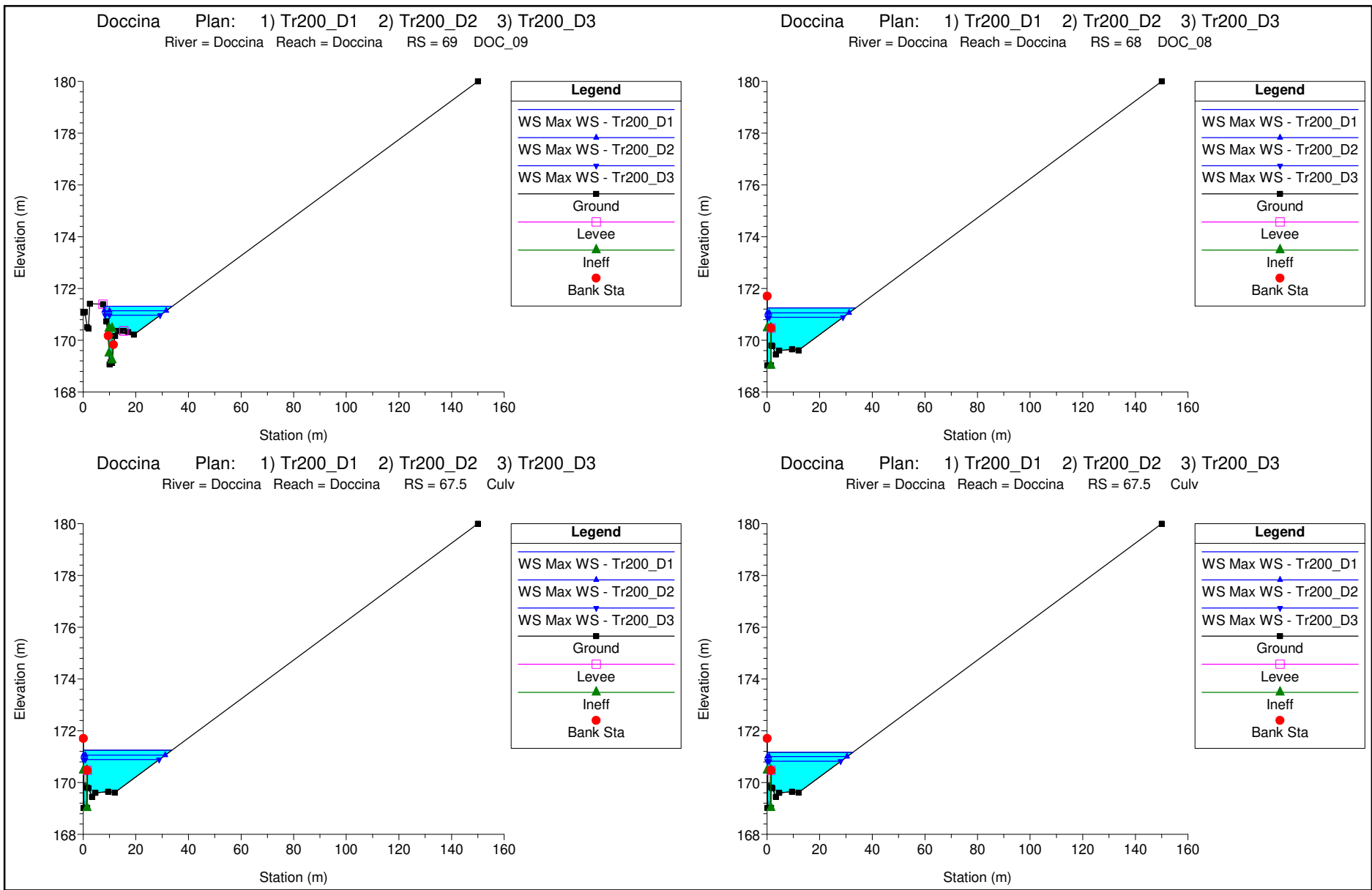
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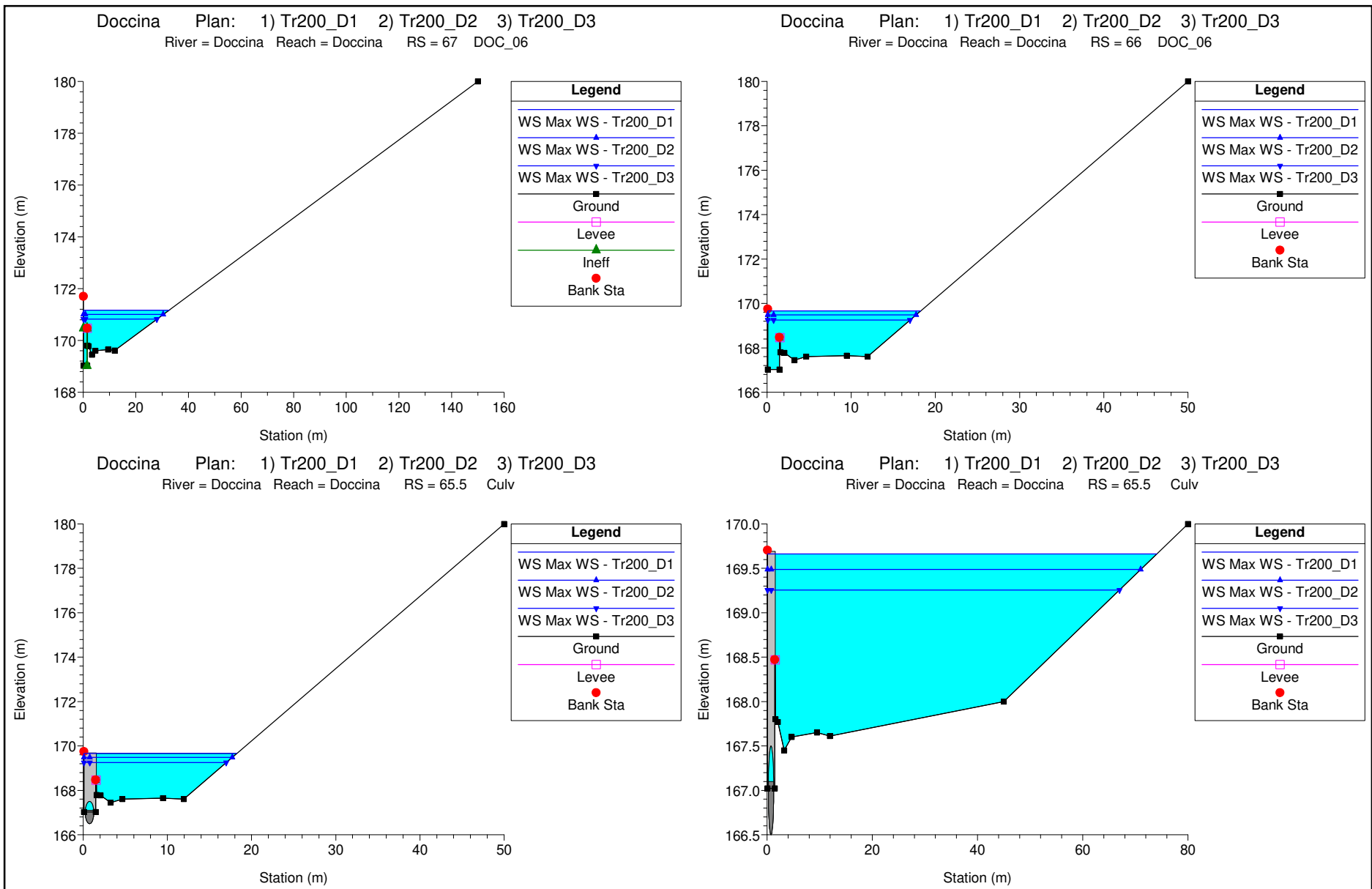
MODELLAZIONE PER TR=200 anni

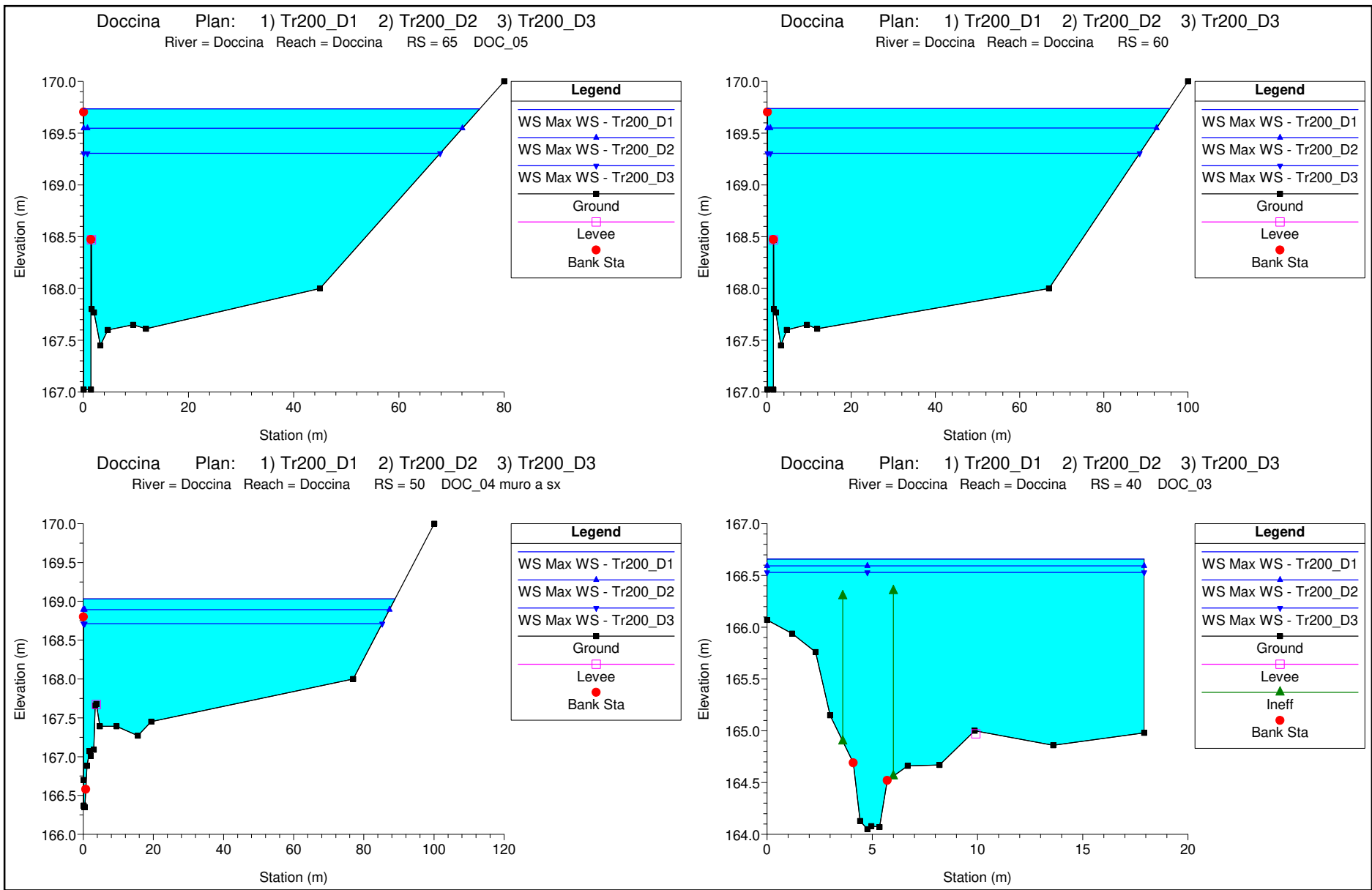
DURATE DI PIOGGIA: 1h, 2h, 3h

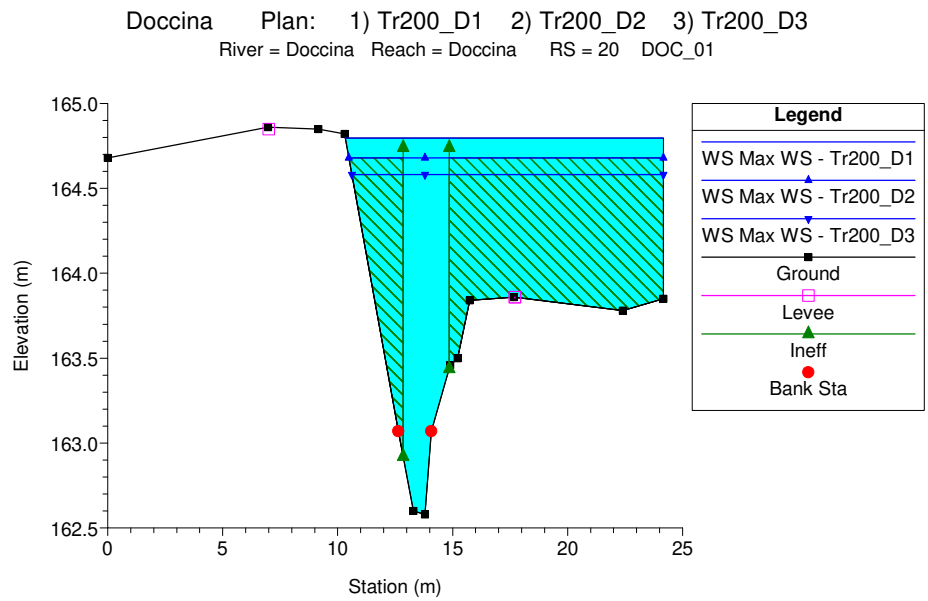
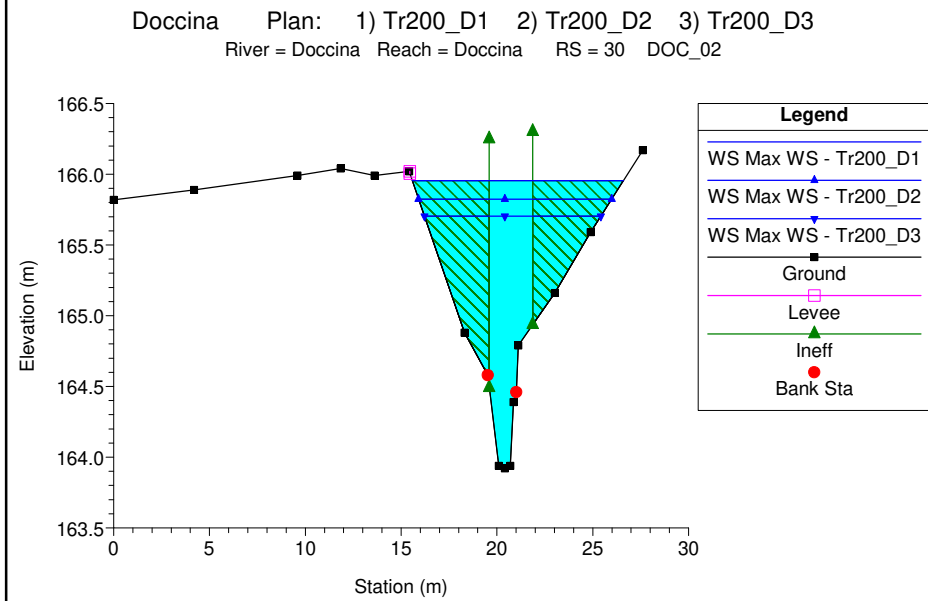
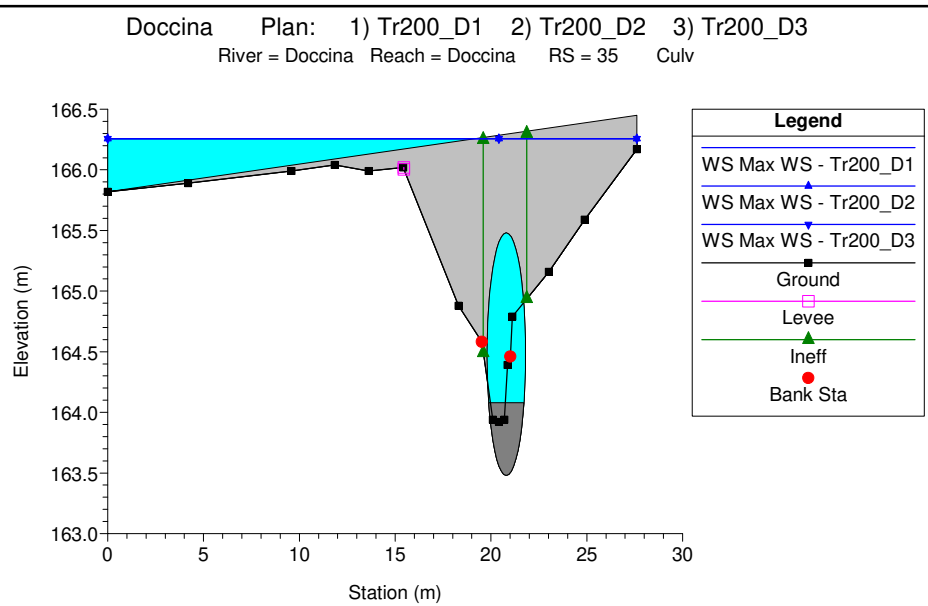
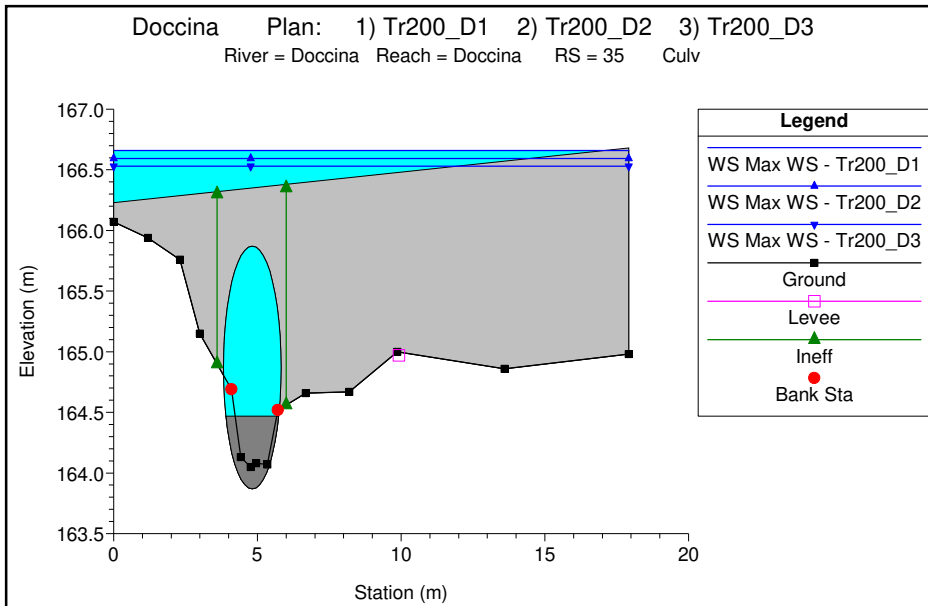
Sezioni Trasversali (da monte verso valle)

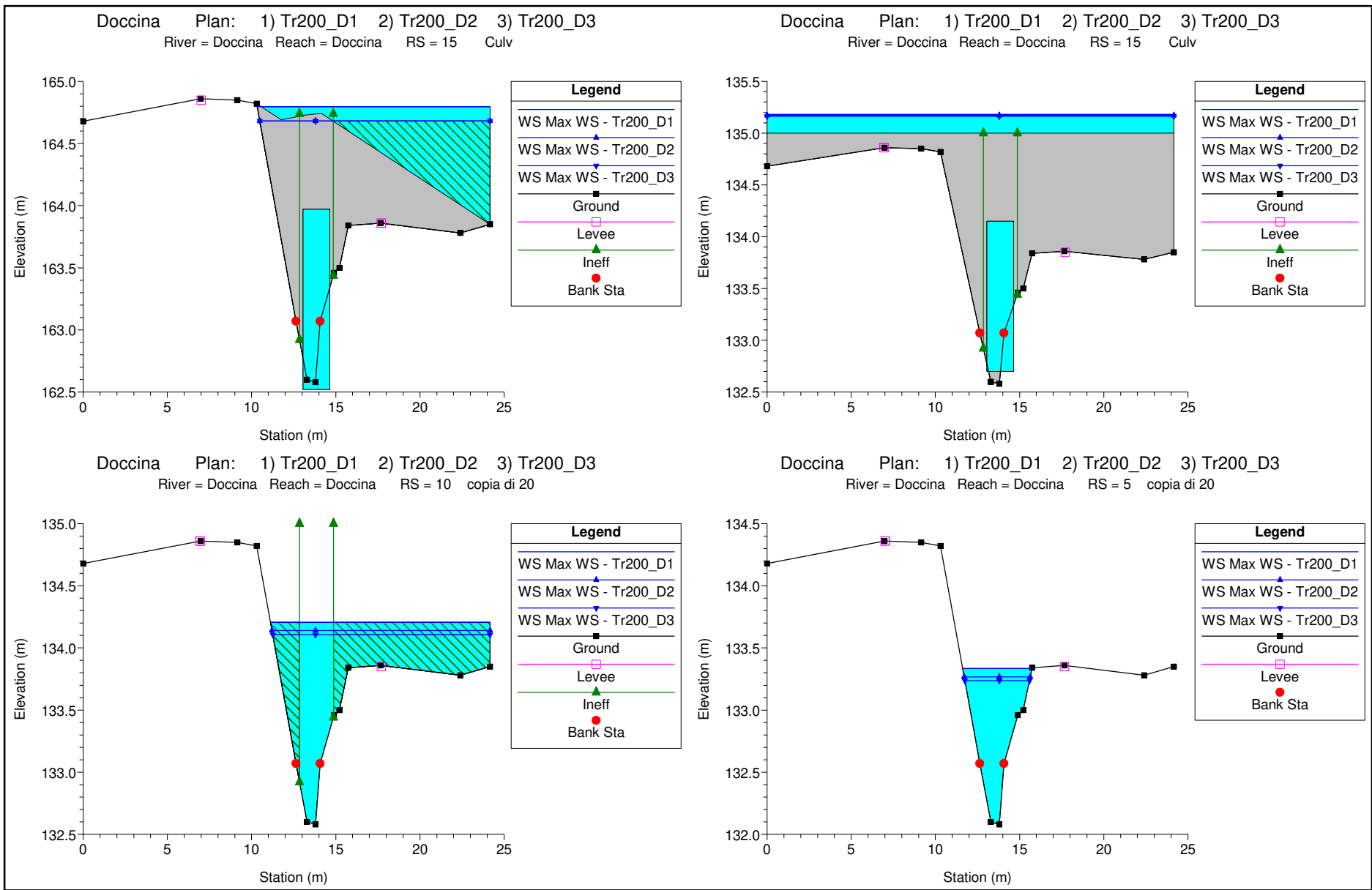












ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Doccina Reach: Doccina Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Doccina	80	Max WS	Tr200_D1	51.90	179.07	181.17	181.39	182.41	0.045211	6.68	1.91	2.79	13.96	17.22	1.57
Doccina	80	Max WS	Tr200_D2	41.40	179.07	181.03	181.39	182.21	0.045088	6.34	1.72	2.53	11.66	16.10	1.55
Doccina	80	Max WS	Tr200_D3	31.70	179.07	180.89	181.24	182.00	0.044807	5.95	1.52	2.23	9.40	14.92	1.52
Doccina	70	Max WS	Tr200_D1	51.85	169.07	171.64		171.84	0.007687	3.20	0.79	1.35	35.09	44.40	0.67
Doccina	70	Max WS	Tr200_D2	41.38	169.07	171.50		171.70	0.007711	3.07	0.65	1.27	28.90	40.92	0.67
Doccina	70	Max WS	Tr200_D3	31.70	169.07	171.30		171.52	0.008719	3.07	0.91	1.23	20.44	26.01	0.70
Doccina	69.5		Culvert												
Doccina	69	Max WS	Tr200_D1	51.85	169.07	171.32	171.39	171.89	0.022300	4.93	1.47	1.98	20.81	26.23	1.12
Doccina	69	Max WS	Tr200_D2	41.38	169.07	171.14	171.32	171.76	0.025407	4.95	1.40	1.91	16.41	23.53	1.17
Doccina	69	Max WS	Tr200_D3	31.70	169.07	170.97	171.18	171.63	0.028074	4.87	1.29	1.77	12.60	20.90	1.21
Doccina	68.5		Lat Struct												
Doccina	68	Max WS	Tr200_D1	51.85	169.02	171.24		171.34	0.006144	1.61		1.35	37.76	33.57	0.35
Doccina	68	Max WS	Tr200_D2	41.38	169.02	171.06		171.15	0.006262	1.58		1.27	31.79	31.12	0.35
Doccina	68	Max WS	Tr200_D3	5.90	169.02	170.88		170.89	0.000210	0.28		0.22	26.48	28.76	0.07
Doccina	67.5		Culvert												
Doccina	67	Max WS	Tr200_D1	51.84	169.02	171.17		171.28	0.007361	1.74		1.44	35.34	32.59	0.38
Doccina	67	Max WS	Tr200_D2	41.38	169.02	171.00		171.10	0.007357	1.69		1.35	29.98	30.33	0.38
Doccina	67	Max WS	Tr200_D3	31.70	169.02	170.82		170.91	0.007342	1.62		1.24	24.70	27.92	0.39
Doccina	66	Max WS	Tr200_D1	51.56	167.02	169.66		169.80	0.005393	1.61		1.65	31.41	18.15	0.32
Doccina	66	Max WS	Tr200_D2	41.25	167.02	169.49		169.60	0.004687	1.46		1.46	28.29	17.61	0.30
Doccina	66	Max WS	Tr200_D3	31.70	167.02	169.26		169.34	0.004324	1.36		1.30	24.30	16.90	0.29
Doccina	65.5		Culvert												
Doccina	65	Max WS	Tr200_D1	51.58	167.02	169.74		169.75	0.000412	0.45	0.03	0.44	116.08	75.39	0.09
Doccina	65	Max WS	Tr200_D2	41.26	167.02	169.55		169.56	0.000480	0.42		0.40	102.18	72.00	0.08
Doccina	65	Max WS	Tr200_D3	31.70	167.02	169.31		169.31	0.000378	0.40		0.37	85.27	67.76	0.09
Doccina	60	Max WS	Tr200_D1	51.50	167.02	169.74		169.74	0.000204	0.32	0.02	0.33	157.18	95.67	0.06
Doccina	60	Max WS	Tr200_D2	41.27	167.02	169.55		169.55	0.000187	0.29		0.30	139.41	92.47	0.06
Doccina	60	Max WS	Tr200_D3	31.70	167.02	169.31		169.31	0.000184	0.28		0.27	117.46	88.46	0.06
Doccina	50	Max WS	Tr200_D1	39.82	166.35	169.03		169.04	0.000312	0.34	0.05	0.35	114.95	88.91	0.07
Doccina	50	Max WS	Tr200_D2	35.61	166.35	168.89		168.90	0.000355	0.35	0.04	0.35	102.68	87.30	0.07
Doccina	50	Max WS	Tr200_D3	30.46	166.35	168.71		168.72	0.000434	0.37		0.35	87.17	85.14	0.08
Doccina	49.9		Lat Struct												
Doccina	40	Max WS	Tr200_D1	7.22	164.05	166.86		166.66	0.000096	0.42	0.15	0.22	30.44	17.92	0.09
Doccina	40	Max WS	Tr200_D2	7.14	164.05	166.59		166.60	0.000106	0.43	0.15	0.23	29.27	17.92	0.09
Doccina	40	Max WS	Tr200_D3	7.20	164.05	166.53		166.53	0.000121	0.45	0.16	0.24	28.11	17.92	0.10
Doccina	35		Culvert												
Doccina	30	Max WS	Tr200_D1	7.22	163.92	165.95		166.21	0.004855	2.38		1.04	3.56	11.02	0.56
Doccina	30	Max WS	Tr200_D2	7.10	163.92	165.82		166.12	0.006145	2.55		1.08	3.27	10.08	0.62
Doccina	30	Max WS	Tr200_D3	7.80	163.92	165.70		166.13	0.009697	3.05		1.24	2.99	9.20	0.77
Doccina	20	Max WS	Tr200_D1	13.49	162.58	164.80		164.87	0.001954	1.70	0.58	0.70	15.39	13.84	0.38
Doccina	20	Max WS	Tr200_D2	12.64	162.58	164.68		165.46	0.012747	4.22		2.23	3.52	13.68	0.96
Doccina	20	Max WS	Tr200_D3	11.92	162.58	164.58		165.36	0.013635	4.21		2.20	3.32	13.55	0.98
Doccina	15		Culvert												
Doccina	10	Max WS	Tr200_D1	14.23	132.58	134.21	134.76	136.07	0.043290	6.48		3.14	2.58	13.05	1.69
Doccina	10	Max WS	Tr200_D2	12.64	132.58	134.14	134.63	135.79	0.040466	6.07		2.89	2.45	12.96	1.62
Doccina	10	Max WS	Tr200_D3	11.92	132.58	134.11	134.56	135.66	0.039213	5.88		2.77	2.38	12.92	1.59
Doccina	5	Max WS	Tr200_D1	14.22	132.08	133.33	133.82	135.73	0.088023	7.49	2.25	2.51	2.62	4.12	2.30
Doccina	5	Max WS	Tr200_D2	12.64	132.08	133.27	133.78	135.57	0.090291	7.27	2.14	2.37	2.35	3.93	2.30
Doccina	5	Max WS	Tr200_D3	11.92	132.08	133.24	133.76	135.48	0.090601	7.14	2.08	2.29	2.23	3.84	2.29

ALLEGATI

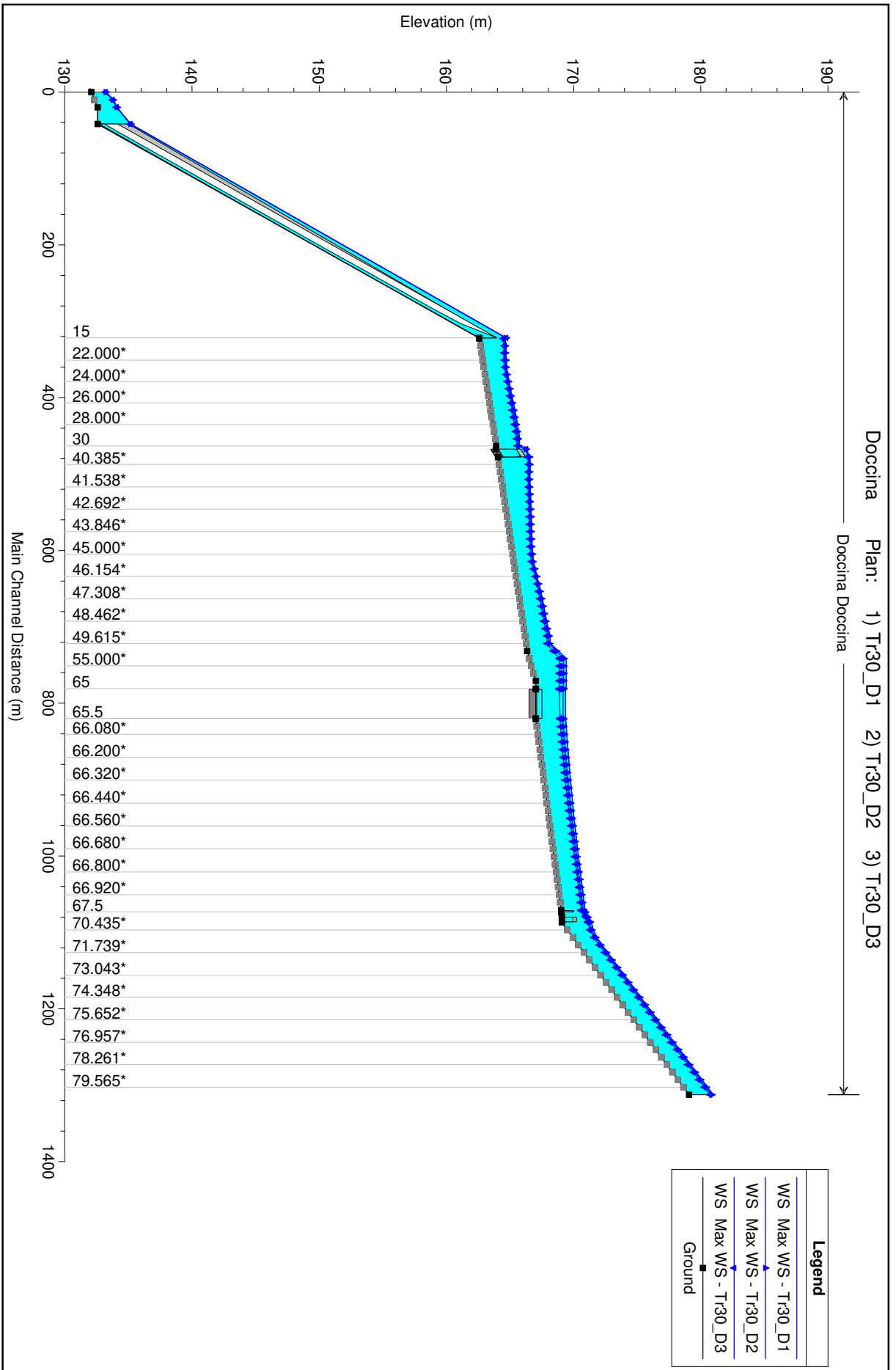
MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale



ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

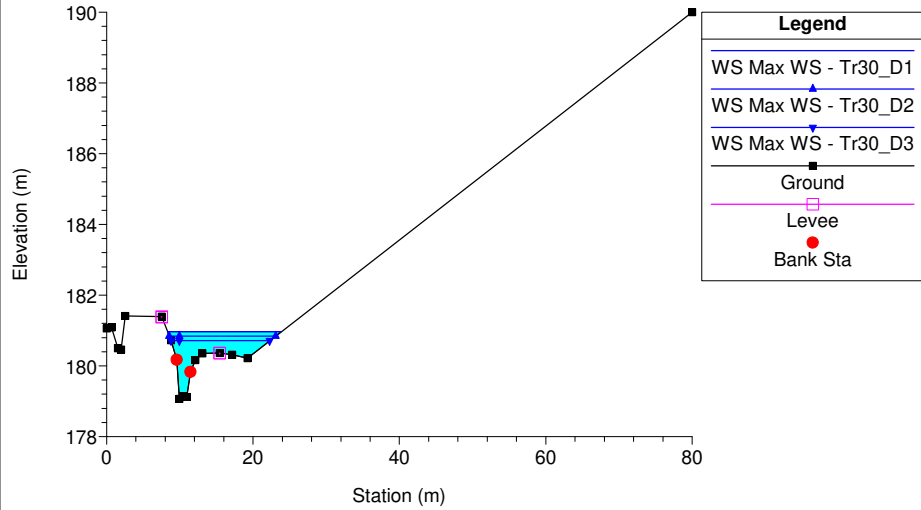
FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=30 anni

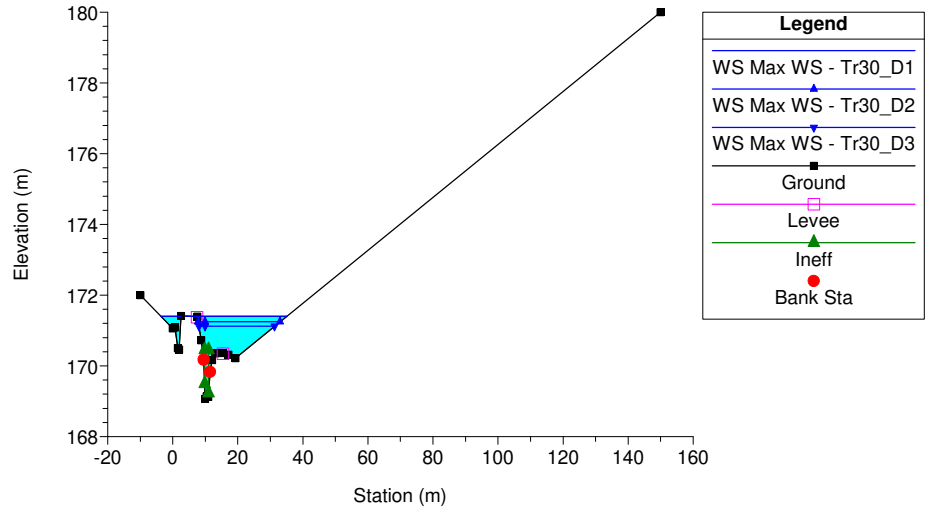
DURATE DI PIOGGIA: 1h, 2h, 3h

Sezioni Trasversali (da monte verso valle)

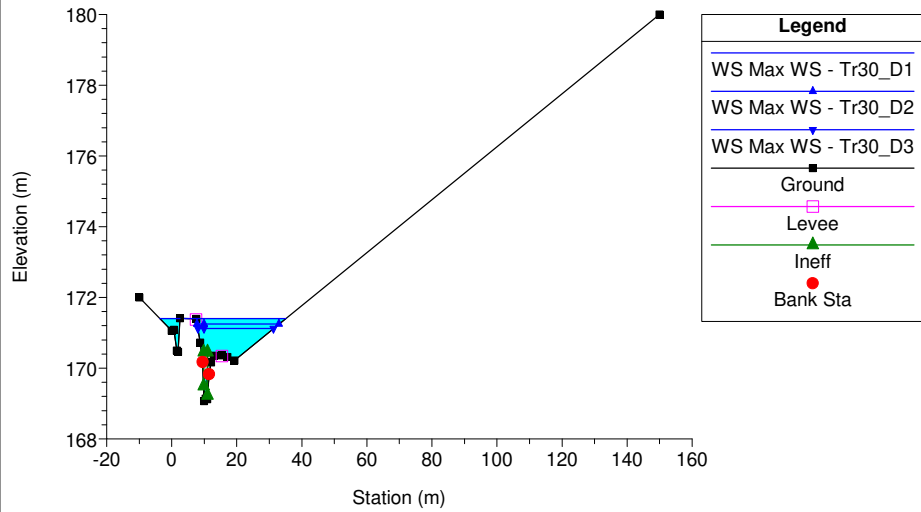
Doccina Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Doccina Reach = Doccina RS = 80 DOC_11



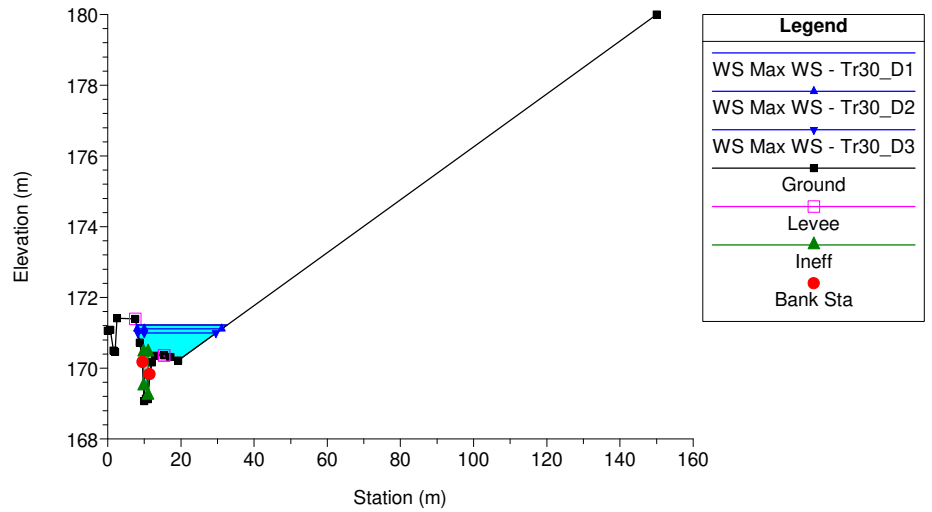
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 River = Doccina Reach = Doccina RS = 70 DOC_10

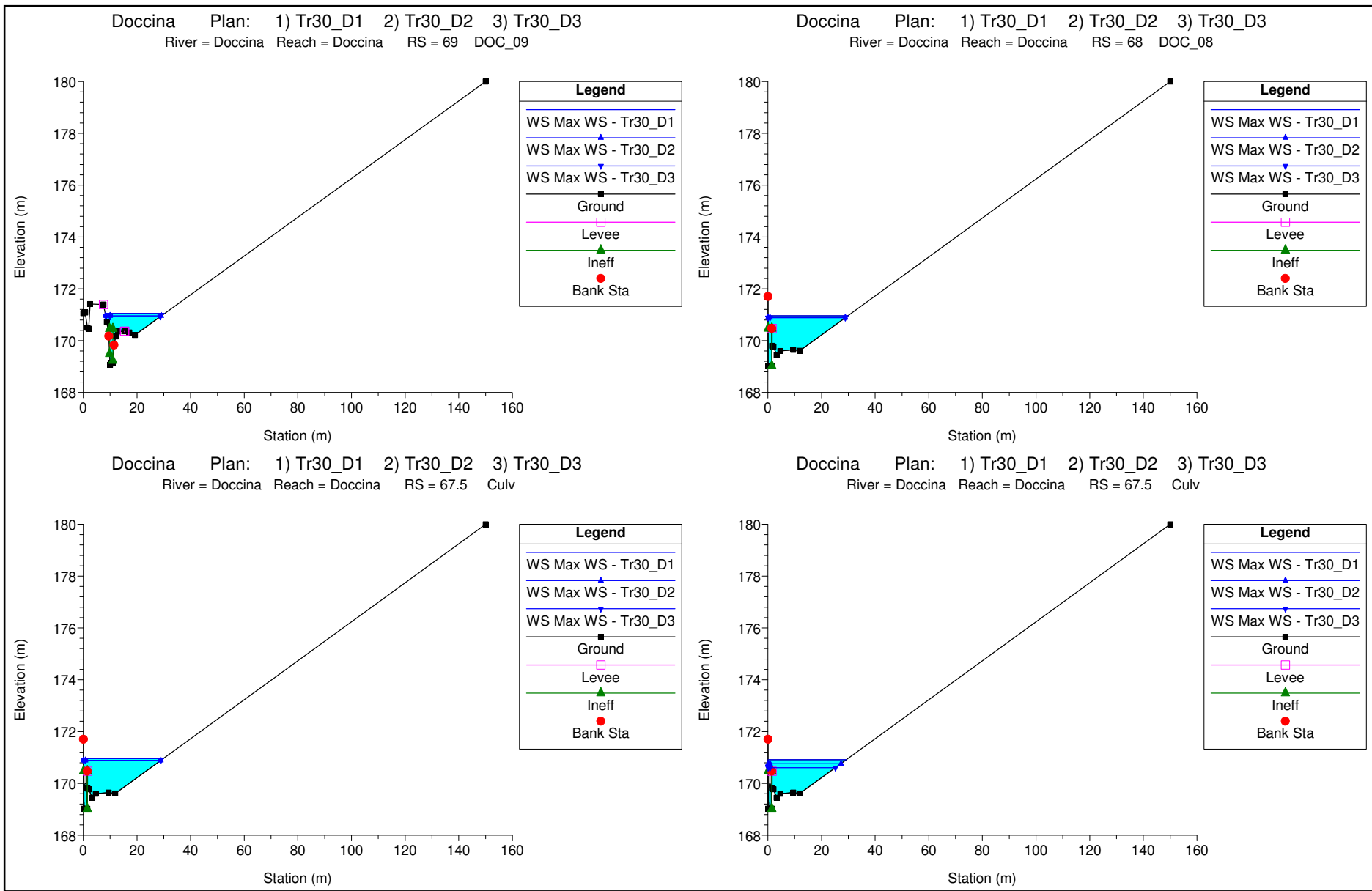


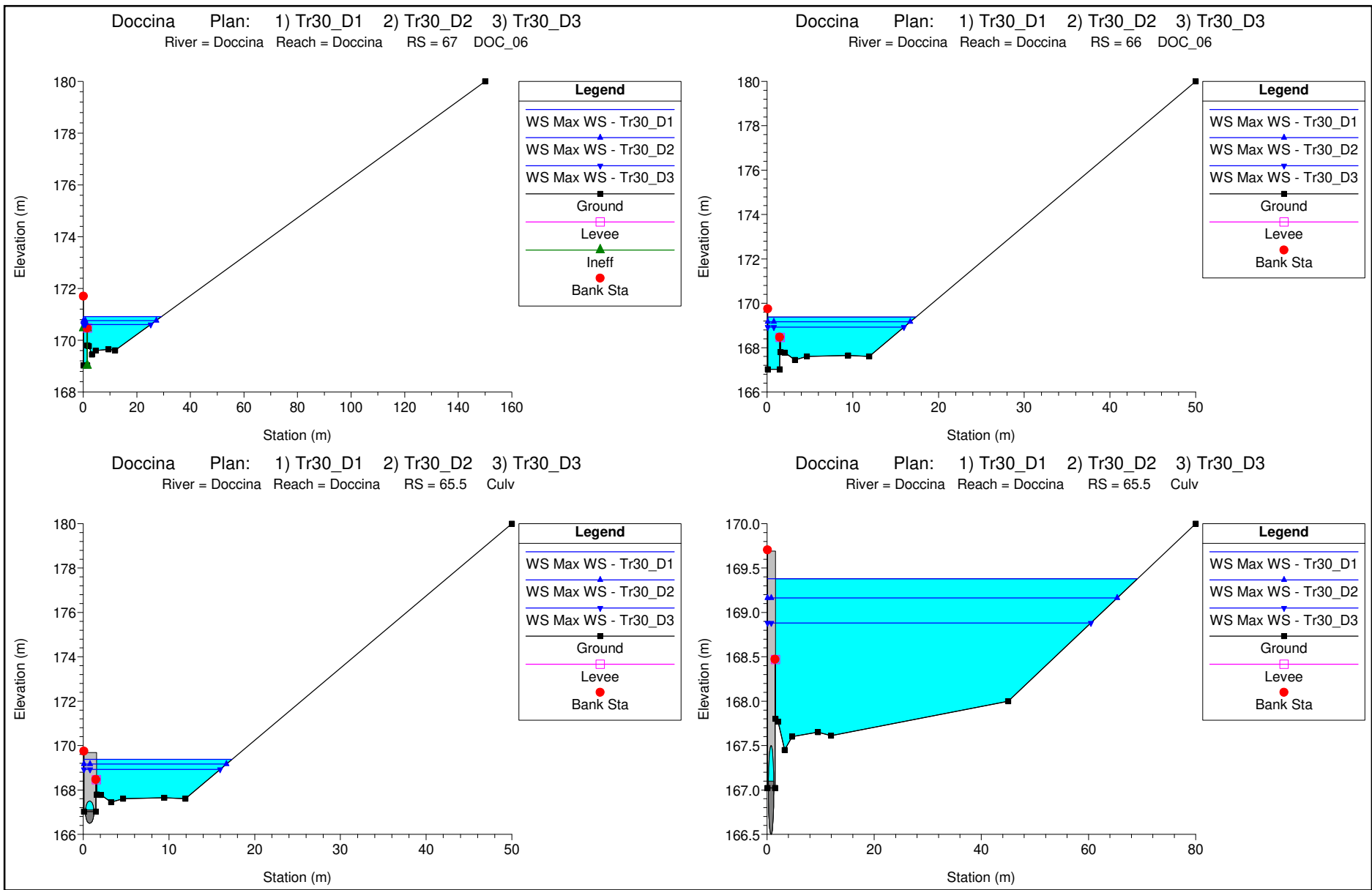
Doccina Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Doccina Reach = Doccina RS = 69.5 Culv



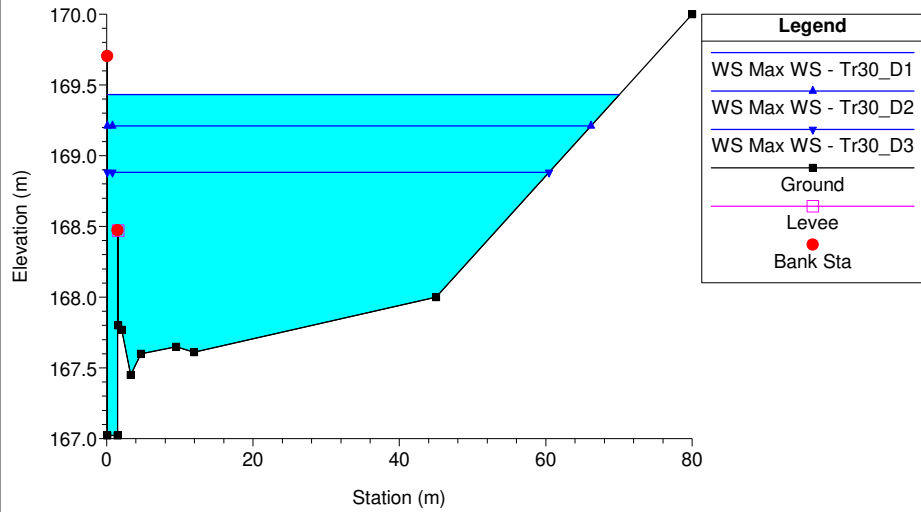
Doccina Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Doccina Reach = Doccina RS = 69.5 Culv



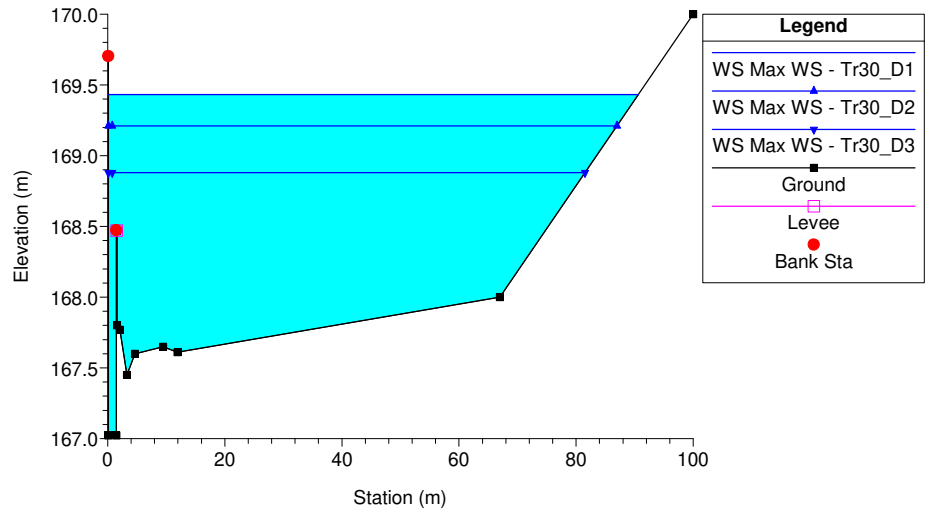




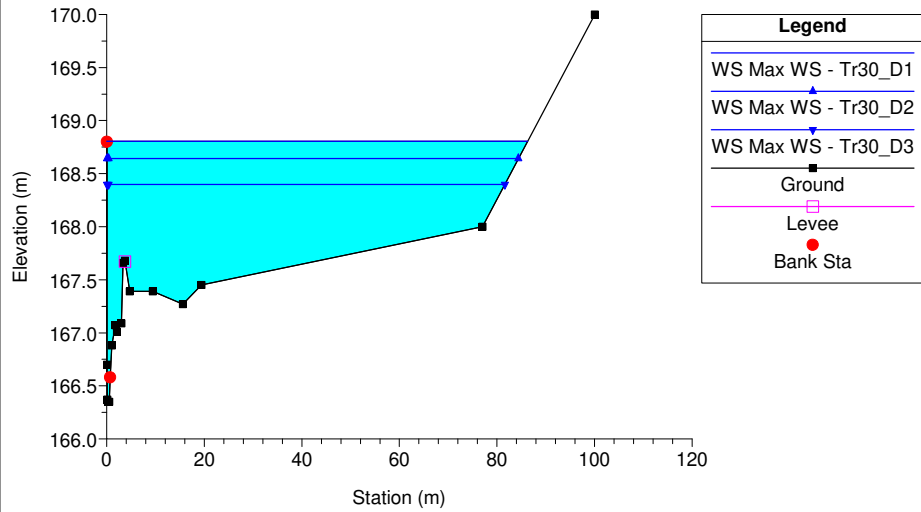
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 River = Doccina Reach = Doccina RS = 65 DOC_05



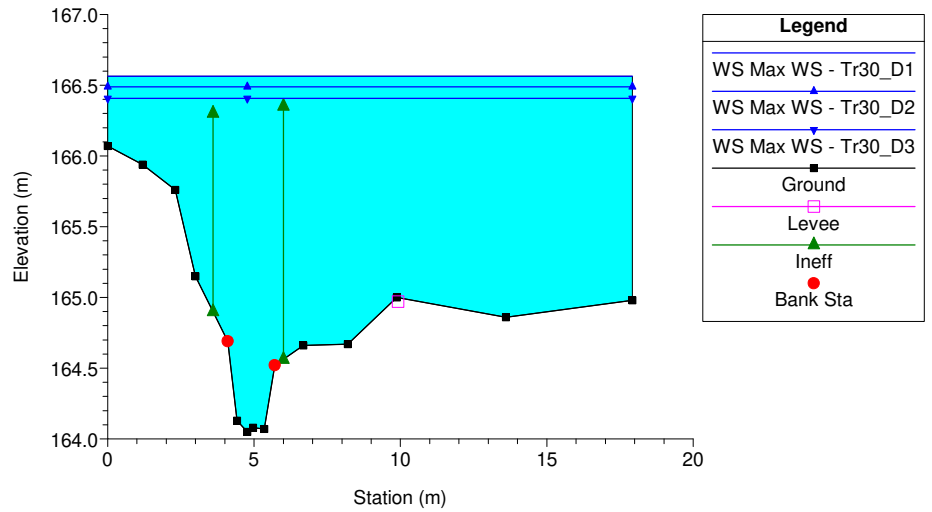
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 River = Doccina Reach = Doccina RS = 60

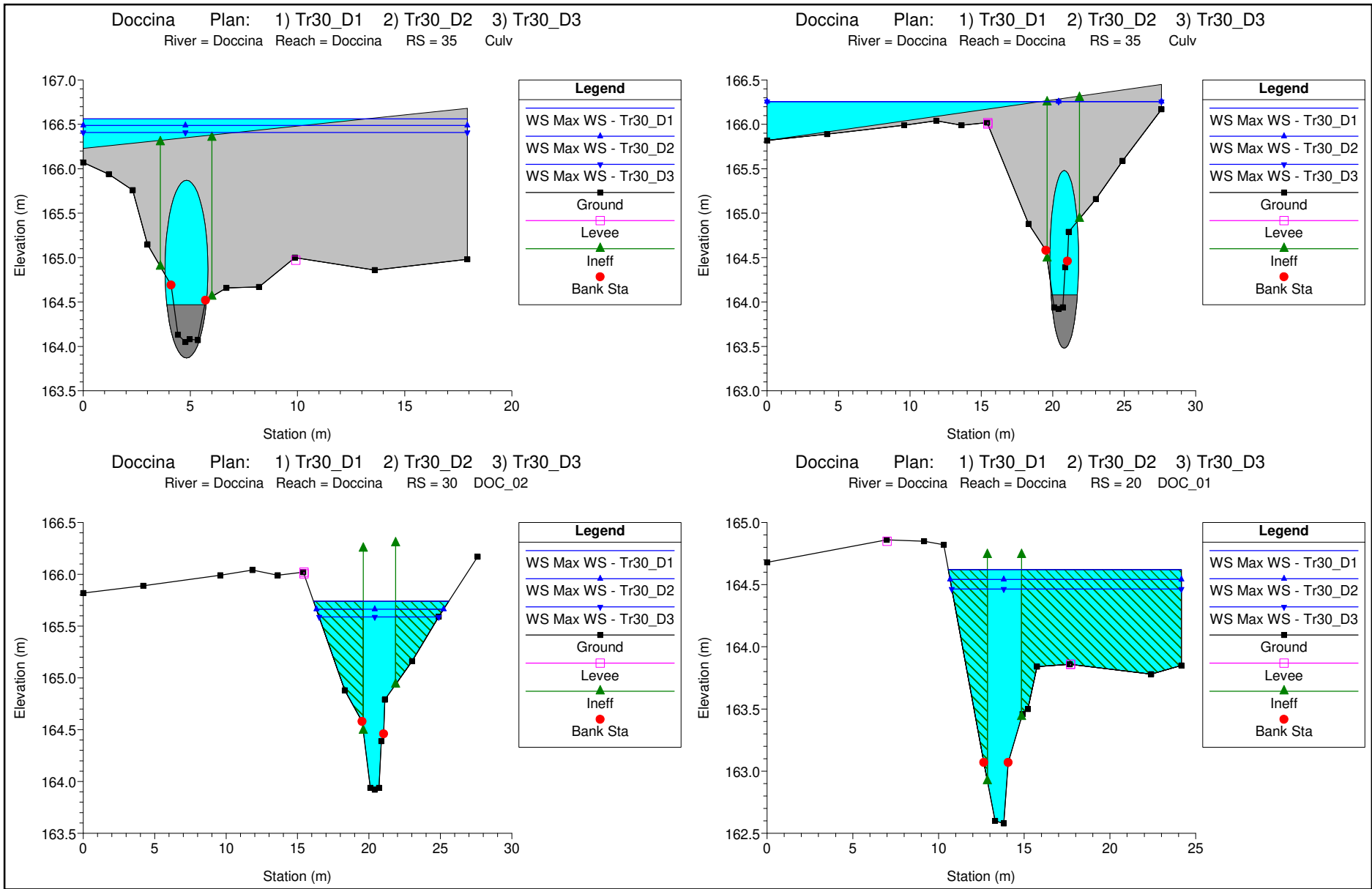


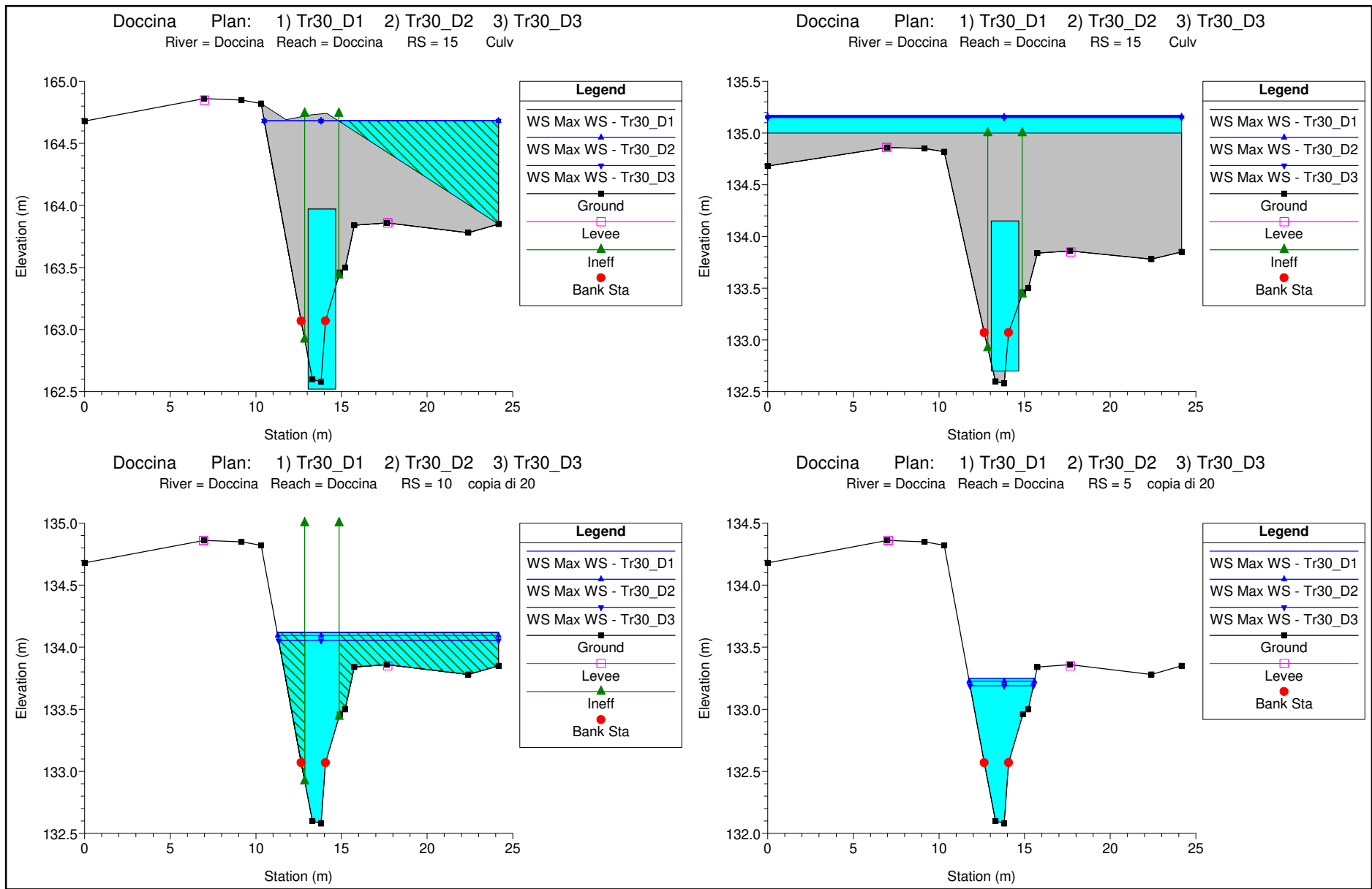
Doccina Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Doccina Reach = Doccina RS = 50 DOC_04 muro a sx



Doccina Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Doccina Reach = Doccina RS = 40 DOC_03







ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Doccina"

FOSSO DELLA DOCCINA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Doccina Reach: Doccina Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Doccina	80	Max WS	Tr30_D1	36.60	179.07	180.96	181.33	182.11	0.044973	6.16	1.63	2.39	10.56	15.54	1.53
Doccina	80	Max WS	Tr30_D2	29.10	179.07	180.84	181.19	181.95	0.044888	5.85	1.46	2.13	8.74	14.56	1.51
Doccina	80	Max WS	Tr30_D3	22.10	179.07	180.71	181.04	181.78	0.044904	5.50	1.29	1.82	6.89	13.49	1.49
Doccina	70	Max WS	Tr30_D1	36.56	169.07	171.40		171.61	0.008059	3.05	0.61	1.25	25.28	37.37	0.68
Doccina	70	Max WS	Tr30_D2	29.08	169.07	171.25		171.47	0.008762	3.02	0.88	1.19	19.02	25.16	0.70
Doccina	70	Max WS	Tr30_D3	22.09	169.07	171.12		171.31	0.007656	2.70	0.76	1.04	16.04	23.29	0.64
Doccina	69.5			Culvert											
Doccina	69	Max WS	Tr30_D1	36.55	169.07	171.05	171.25	171.71	0.027686	4.99	1.36	1.87	14.29	22.10	1.21
Doccina	69	Max WS	Tr30_D2	29.08	169.07	170.96	171.13	171.53	0.024661	4.55	1.20	1.64	12.37	20.74	1.14
Doccina	69	Max WS	Tr30_D3	22.09	169.07	170.93	171.00	171.30	0.015874	3.61	0.94	1.29	11.80	20.32	0.91
Doccina	68.5			Lat Struct											
Doccina	68	Max WS	Tr30_D1	36.55	169.02	170.96		171.04	0.006425	1.57		1.24	28.77	29.80	0.36
Doccina	68	Max WS	Tr30_D2	5.90	169.02	170.88		170.89	0.000210	0.28		0.22	26.48	28.76	0.07
Doccina	68	Max WS	Tr30_D3	5.90	169.02	170.88		170.89	0.000210	0.28		0.22	26.47	28.75	0.07
Doccina	67.5			Culvert											
Doccina	67	Max WS	Tr30_D1	36.55	169.02	170.91		171.01	0.007381	1.66		1.30	27.35	29.16	0.39
Doccina	67	Max WS	Tr30_D2	29.08	169.02	170.76		170.85	0.007366	1.60		1.21	23.17	27.19	0.39
Doccina	67	Max WS	Tr30_D3	22.22	169.02	170.61		170.68	0.007371	1.54		1.12	19.05	25.09	0.39
Doccina	66	Max WS	Tr30_D1	36.23	167.02	169.38		169.47	0.004431	1.40		1.37	26.39	17.28	0.29
Doccina	66	Max WS	Tr30_D2	28.94	167.02	169.16		169.25	0.004379	1.34		1.26	22.75	16.62	0.29
Doccina	66	Max WS	Tr30_D3	6.25	167.02	168.93		168.93	0.000354	0.36		0.32	18.91	15.89	0.08
Doccina	65.5			Culvert											
Doccina	65	Max WS	Tr30_D1	36.24	167.02	169.43		169.44	0.000373	0.41		0.38	94.00	69.98	0.08
Doccina	65	Max WS	Tr30_D2	28.94	167.02	169.21		169.22	0.000395	0.41		0.37	78.85	66.08	0.09
Doccina	65	Max WS	Tr30_D3	22.09	167.02	168.88		168.89	0.000562	0.46		0.38	58.11	60.34	0.11
Doccina	60	Max WS	Tr30_D1	36.24	167.02	169.43		169.44	0.000182	0.29		0.28	128.84	90.56	0.06
Doccina	60	Max WS	Tr30_D2	28.94	167.02	169.21		169.21	0.000192	0.28		0.26	109.04	86.88	0.06
Doccina	60	Max WS	Tr30_D3	22.08	167.02	168.88		168.88	0.000271	0.32		0.27	81.36	81.45	0.07
Doccina	50	Max WS	Tr30_D1	33.13	166.35	168.81		168.81	0.000390	0.35	0.01	0.35	95.19	86.31	0.07
Doccina	50	Max WS	Tr30_D2	28.49	166.35	168.64		168.65	0.000476	0.39		0.35	81.13	84.32	0.08
Doccina	50	Max WS	Tr30_D3	22.08	166.35	168.40		168.41	0.000701	0.46		0.36	61.08	81.53	0.10
Doccina	49.9			Lat Struct											
Doccina	40	Max WS	Tr30_D1	7.13	164.05	166.56		166.57	0.000111	0.44	0.15	0.23	28.71	17.92	0.09
Doccina	40	Max WS	Tr30_D2	7.76	164.05	166.49		166.49	0.000152	0.50	0.17	0.26	27.39	17.92	0.11
Doccina	40	Max WS	Tr30_D3	7.39	164.05	166.41		166.41	0.000162	0.51	0.17	0.26	25.95	17.92	0.11
Doccina	35			Culvert											
Doccina	30	Max WS	Tr30_D1	7.12	163.92	165.74		166.08	0.007415	2.71		1.12	3.08	9.48	0.68
Doccina	30	Max WS	Tr30_D2	7.75	163.92	165.66		166.11	0.010505	3.12		1.25	2.90	8.91	0.80
Doccina	30	Max WS	Tr30_D3	7.39	163.92	165.59		166.05	0.011472	3.16		1.23	2.73	8.37	0.83
Doccina	20	Max WS	Tr30_D1	12.21	162.58	164.62		165.40	0.013261	4.21		2.21	3.40	13.60	0.97
Doccina	20	Max WS	Tr30_D2	11.64	162.58	164.54		165.32	0.014014	4.21		2.19	3.25	13.50	0.99
Doccina	20	Max WS	Tr30_D3	10.76	162.58	164.46		165.20	0.014004	4.09		2.10	3.09	13.39	0.98
Doccina	15			Culvert											
Doccina	10	Max WS	Tr30_D1	12.21	132.58	134.12	134.59	135.71	0.039744	5.96		2.82	2.41	12.93	1.60
Doccina	10	Max WS	Tr30_D2	11.64	132.58	134.09	134.54	135.61	0.038668	5.81		2.73	2.36	12.90	1.57
Doccina	10	Max WS	Tr30_D3	10.76	132.58	134.05	134.45	135.44	0.036871	5.56		2.57	2.27	12.84	1.53
Doccina	5	Max WS	Tr30_D1	12.21	132.08	133.25	133.76	135.52	0.090489	7.20	2.11	2.32	2.28	3.88	2.30
Doccina	5	Max WS	Tr30_D2	11.64	132.08	133.23	133.74	135.44	0.090611	7.09	2.06	2.26	2.19	3.81	2.29
Doccina	5	Max WS	Tr30_D3	10.76	132.08	133.19	133.72	135.32	0.090392	6.90	1.98	2.15	2.05	3.70	2.27

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO AI COLLI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

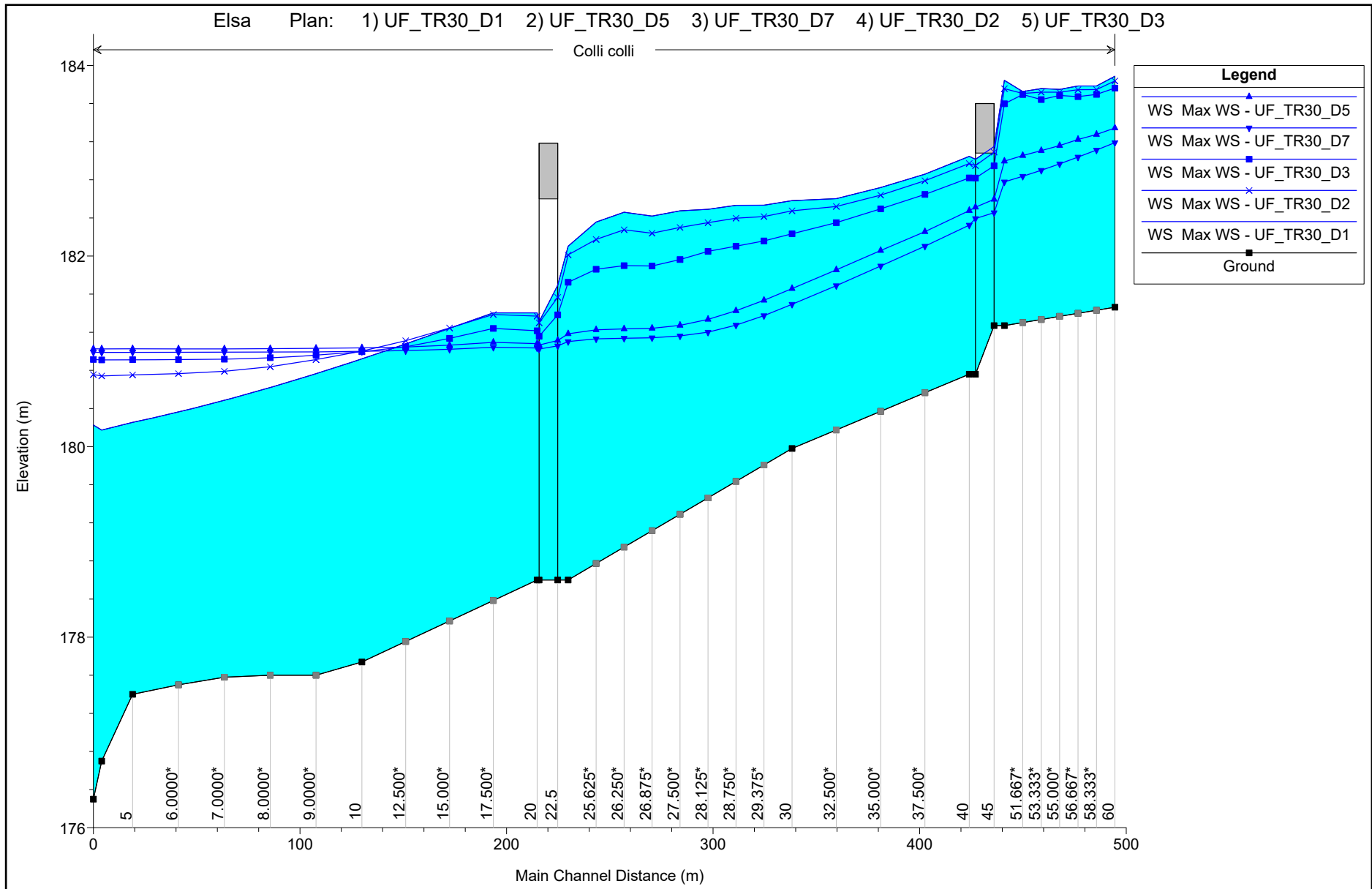
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BOTRO AI COLLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

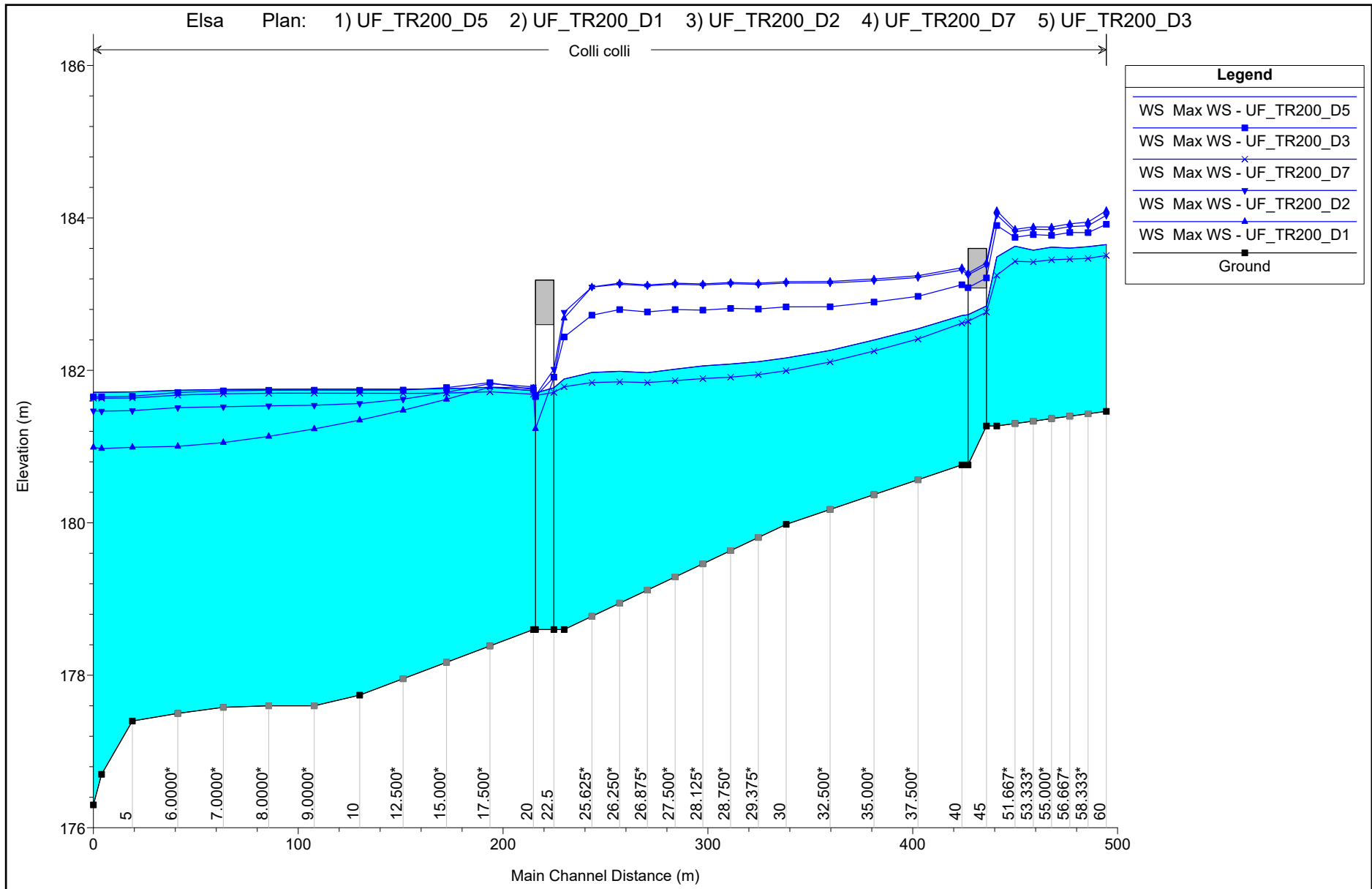
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BOTRO AI COLLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

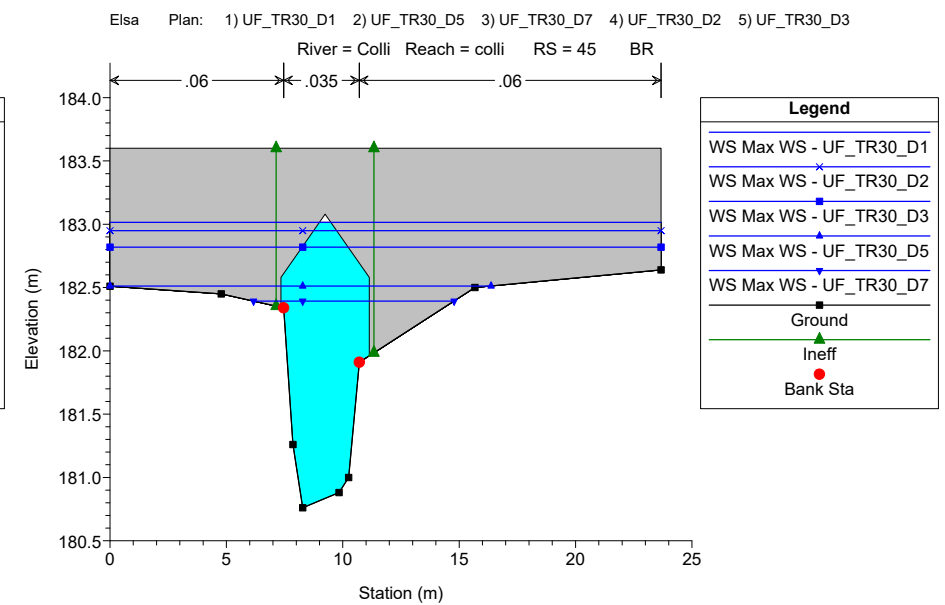
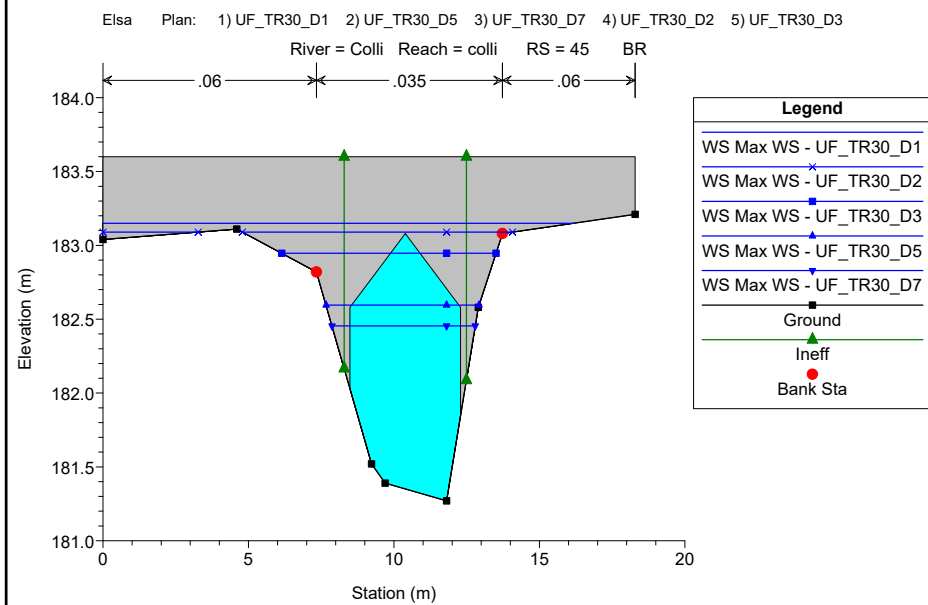
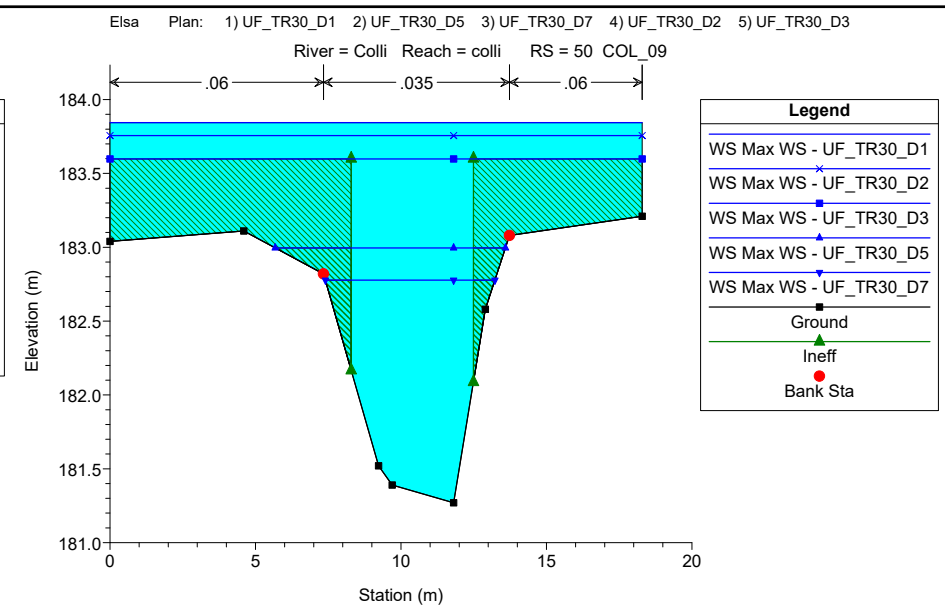
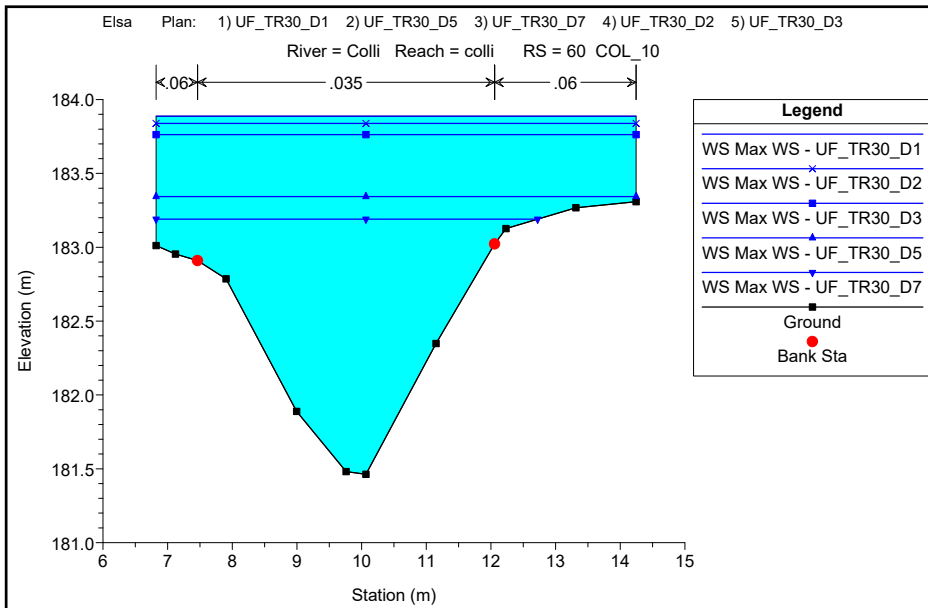
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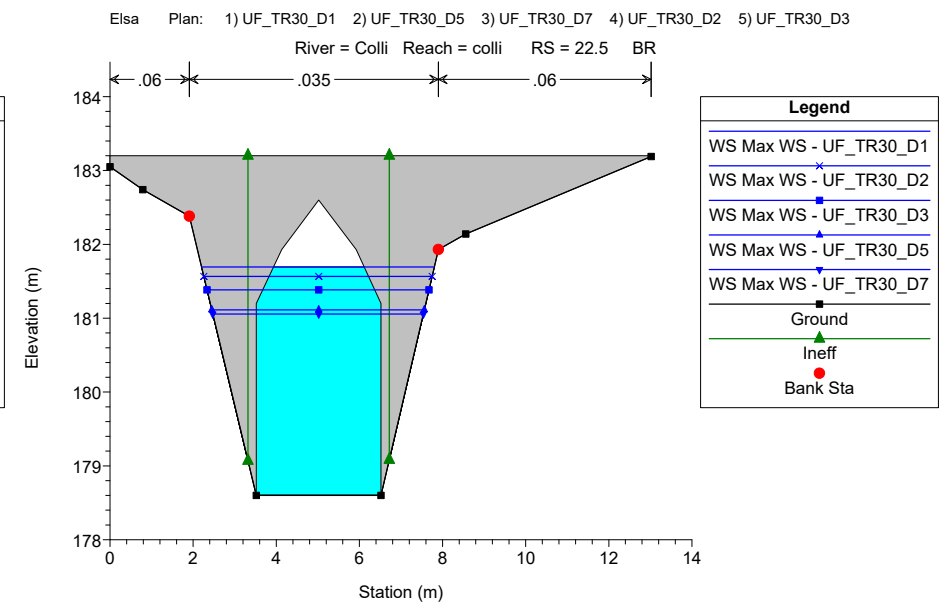
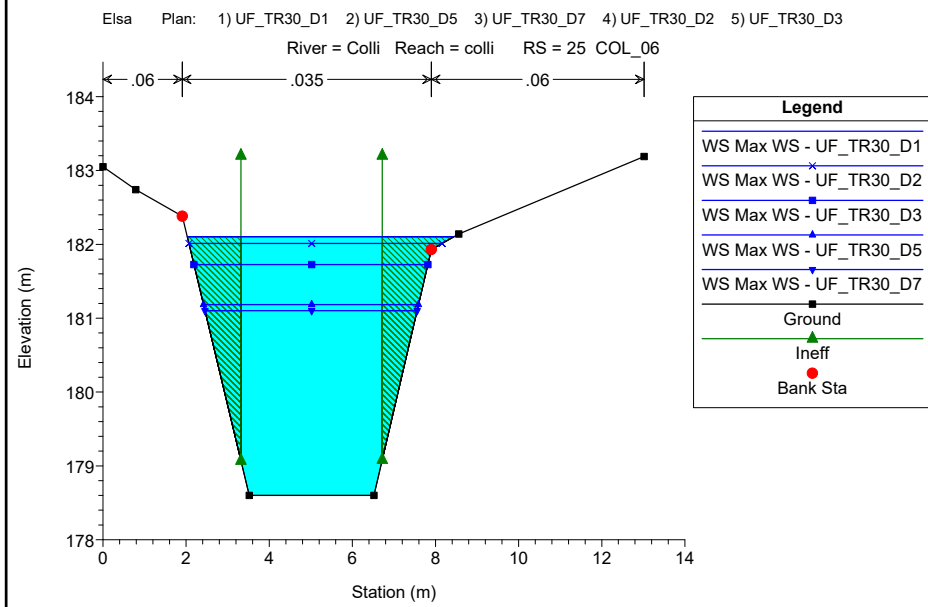
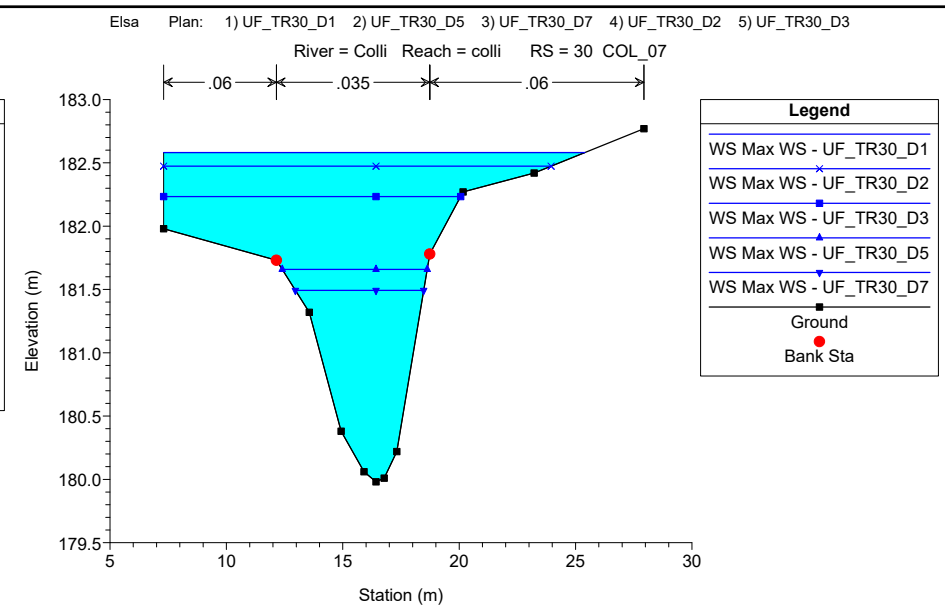
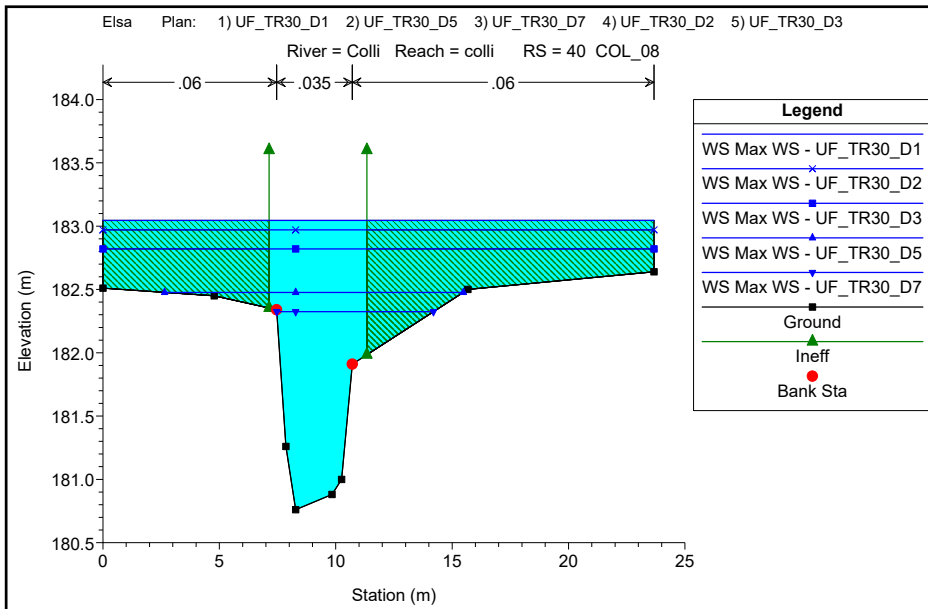
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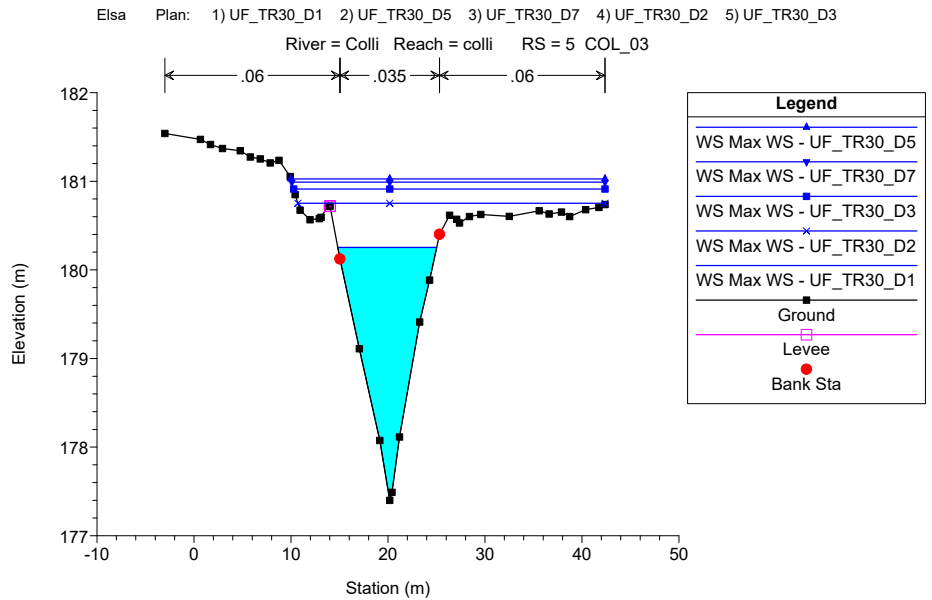
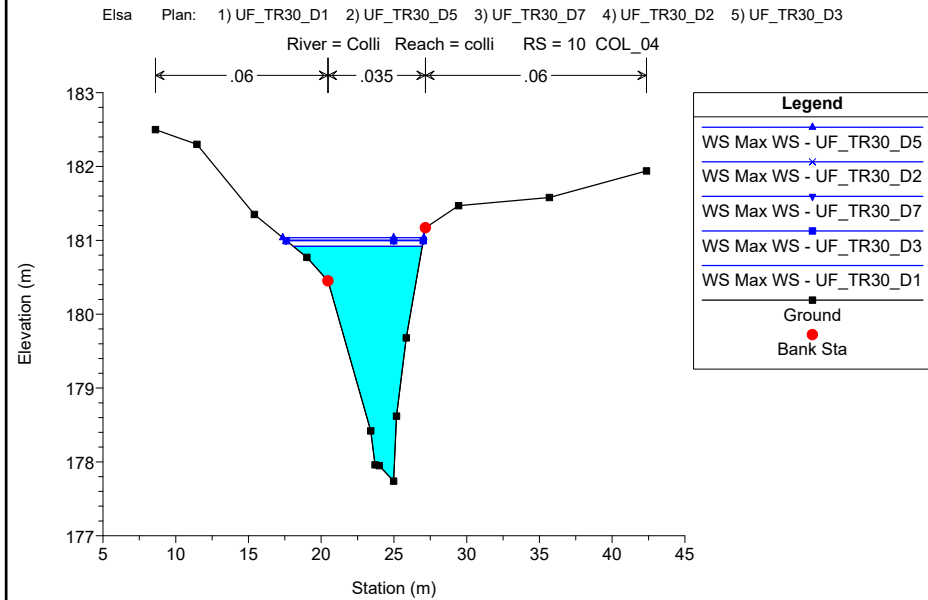
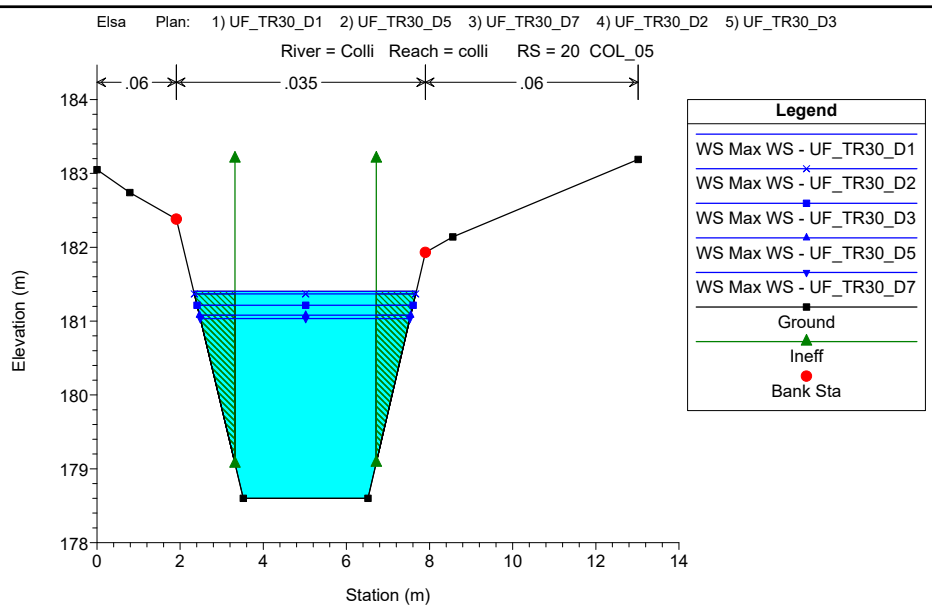
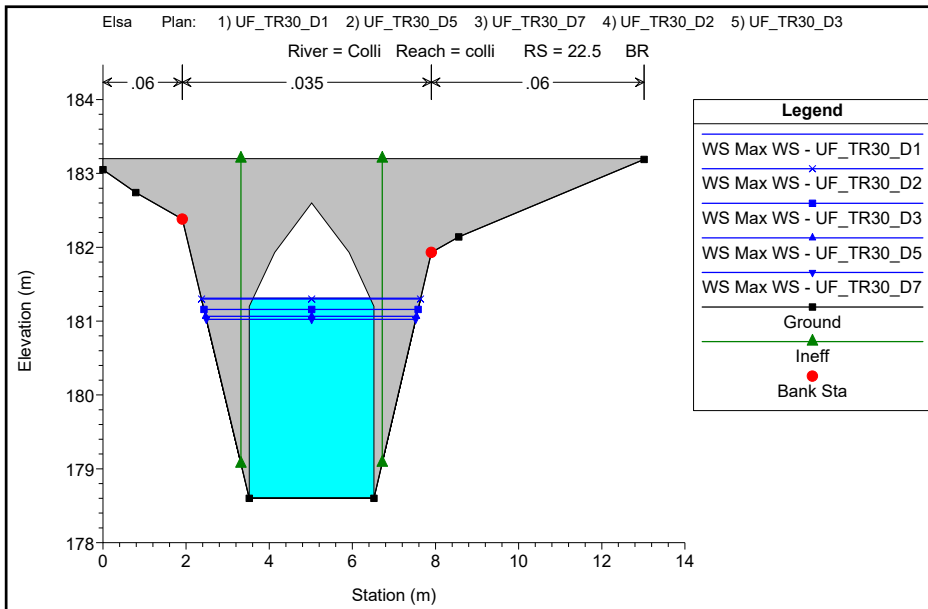
MODELLAZIONE PER TR=30 anni

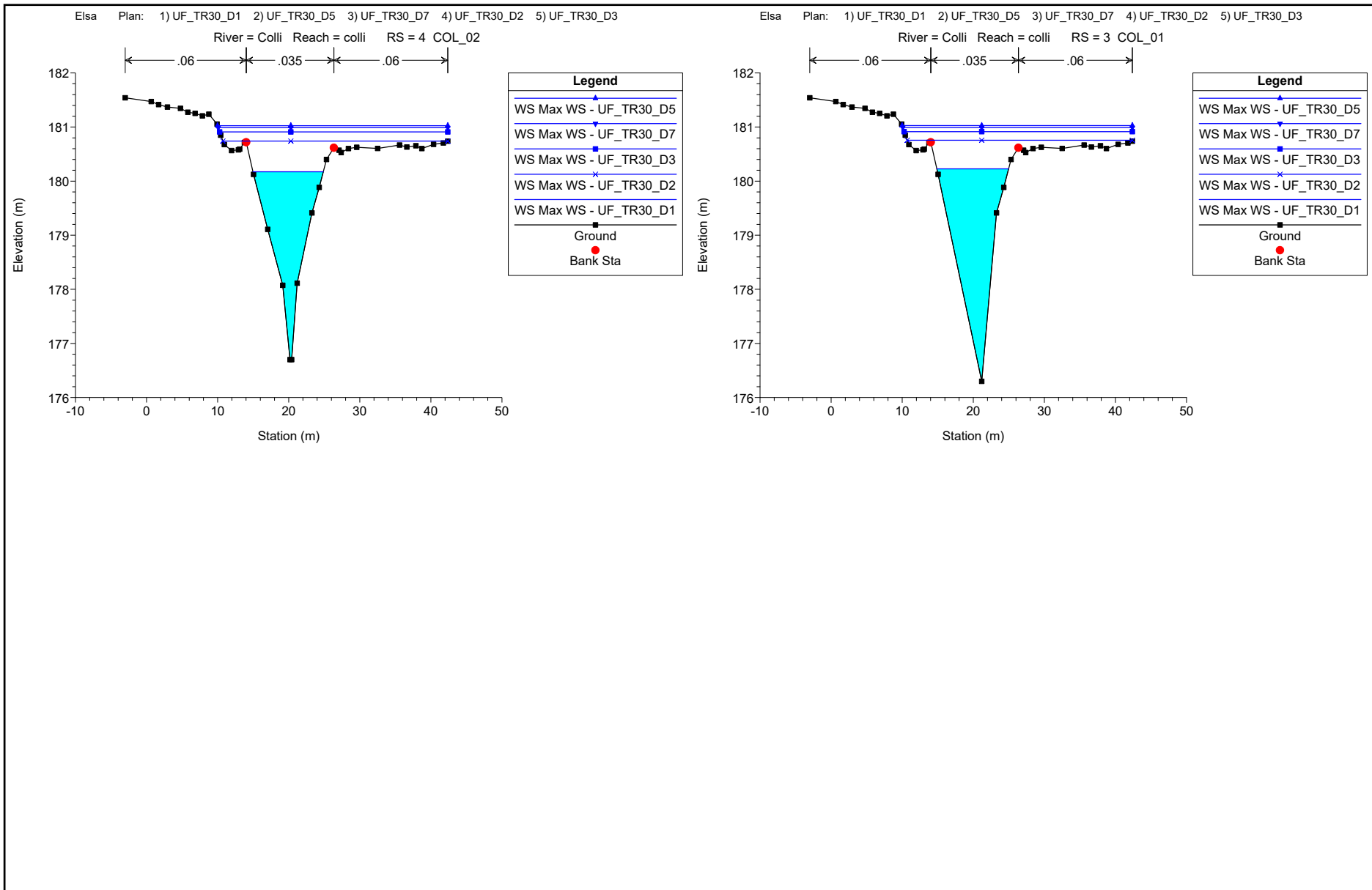
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Sezioni Trasversali (da monte verso valle)









ALLEGATI

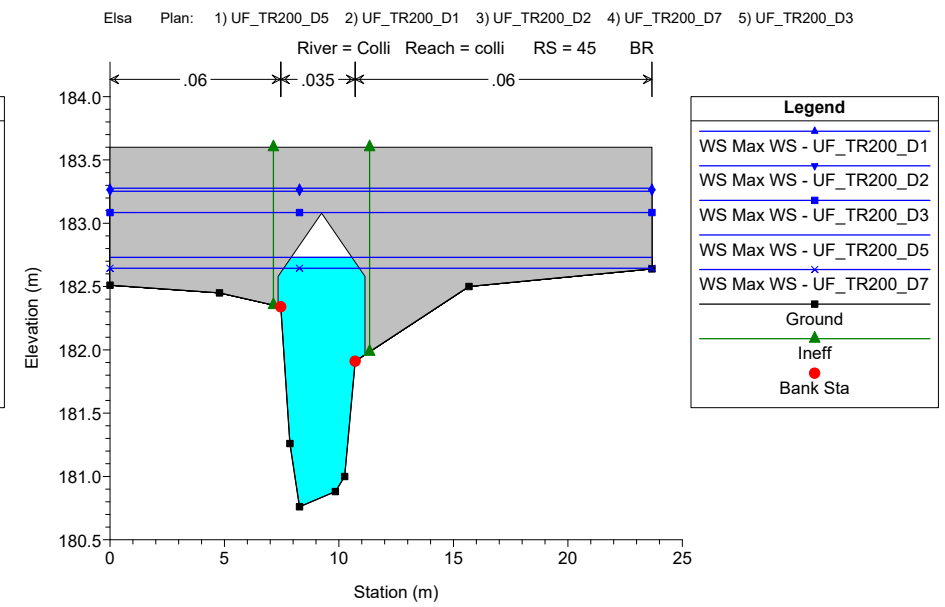
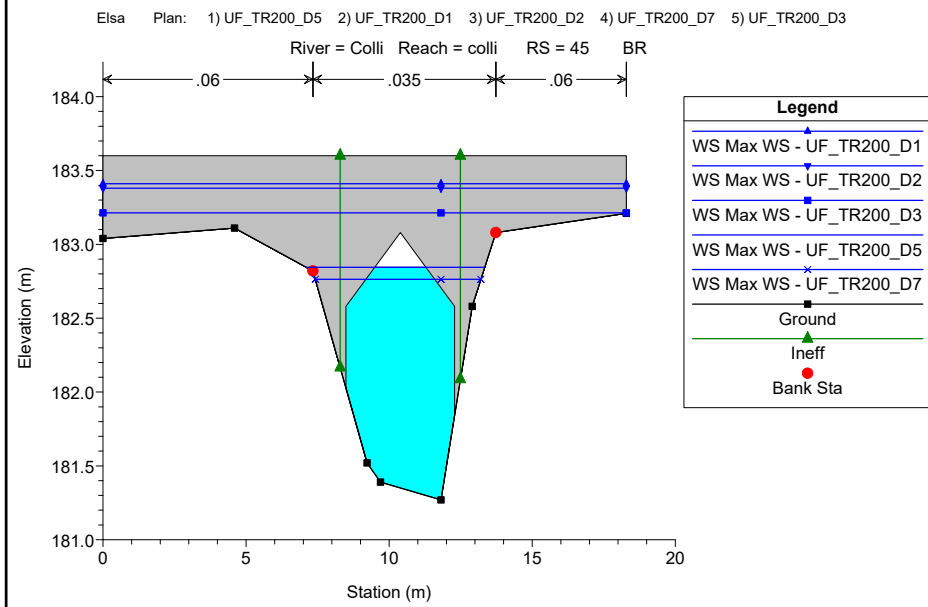
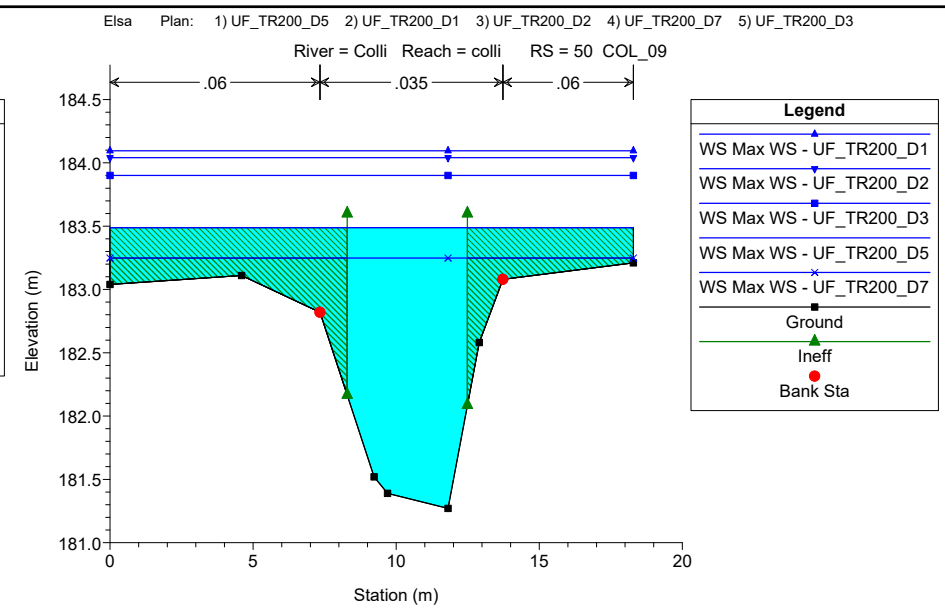
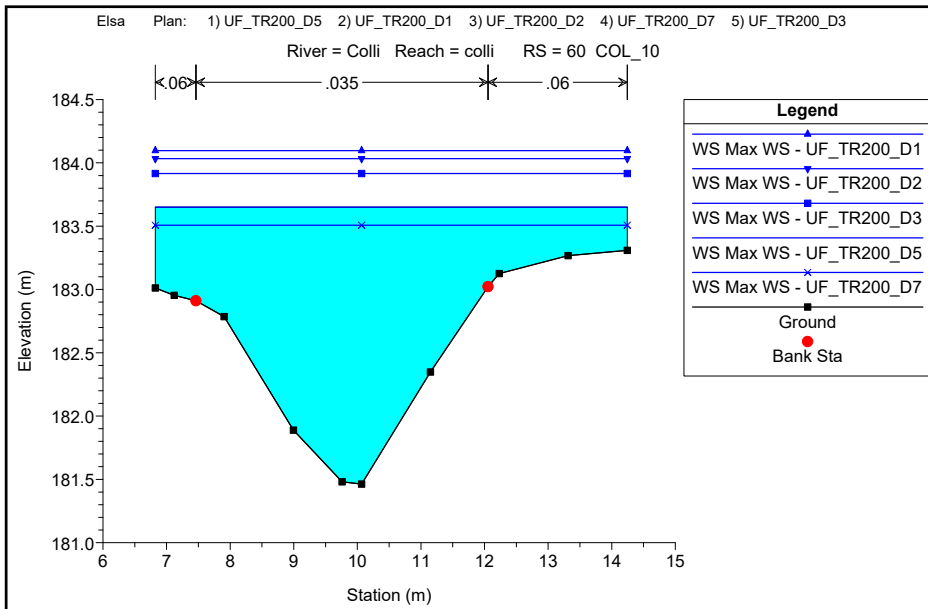
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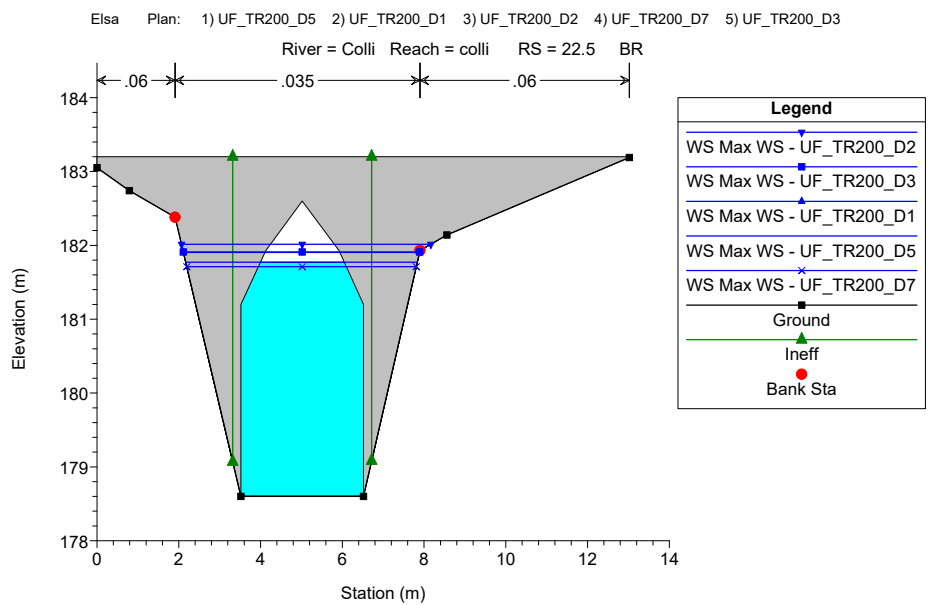
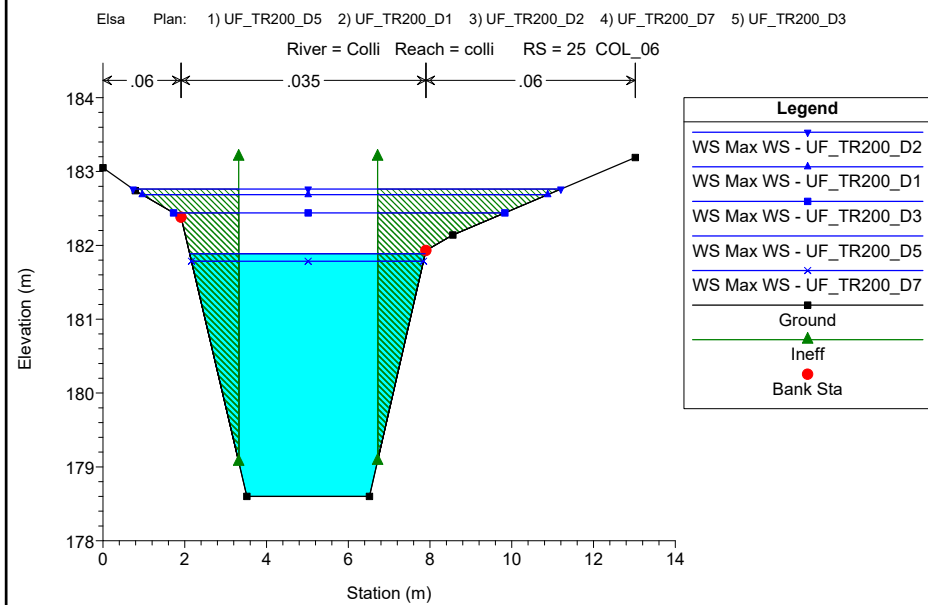
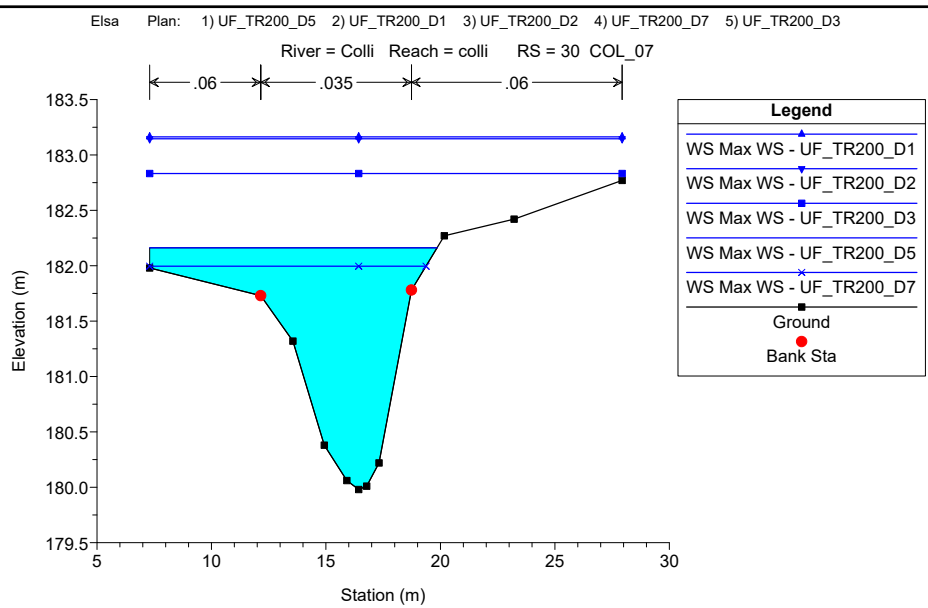
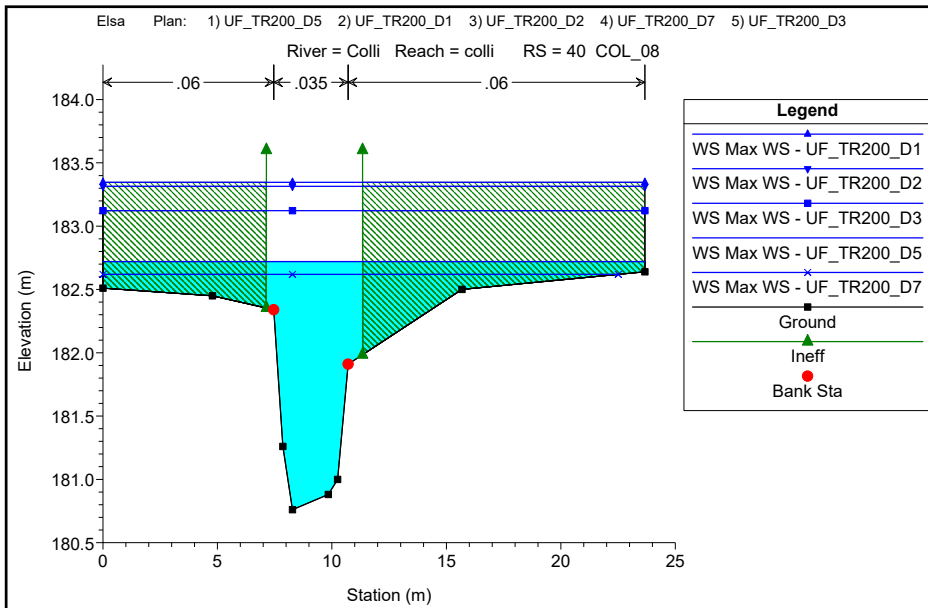
BOTRO AI COLLI

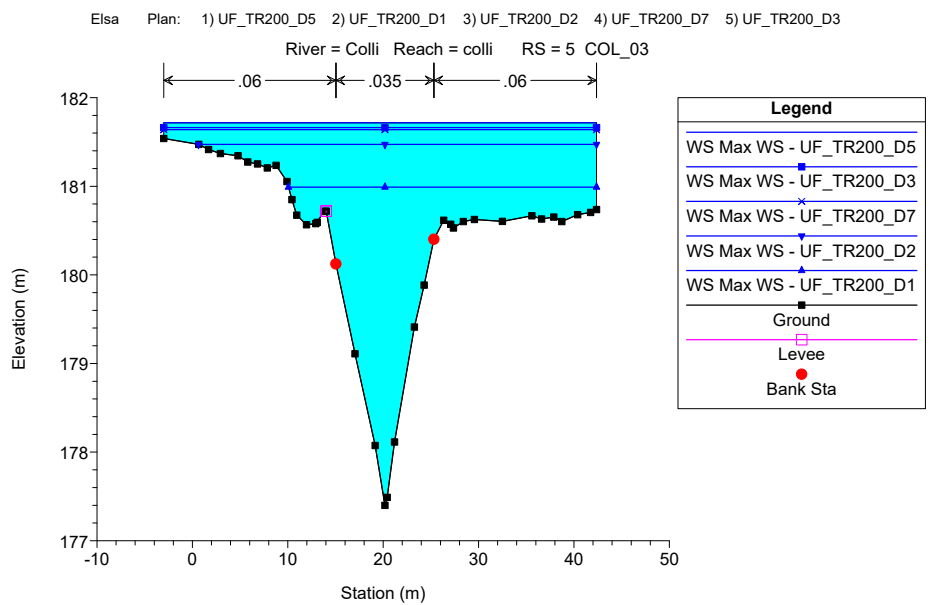
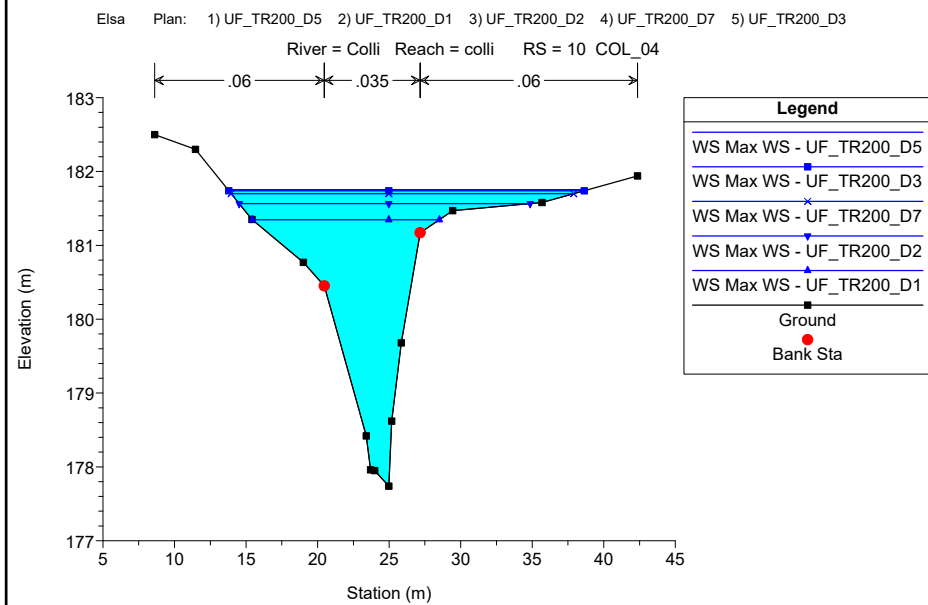
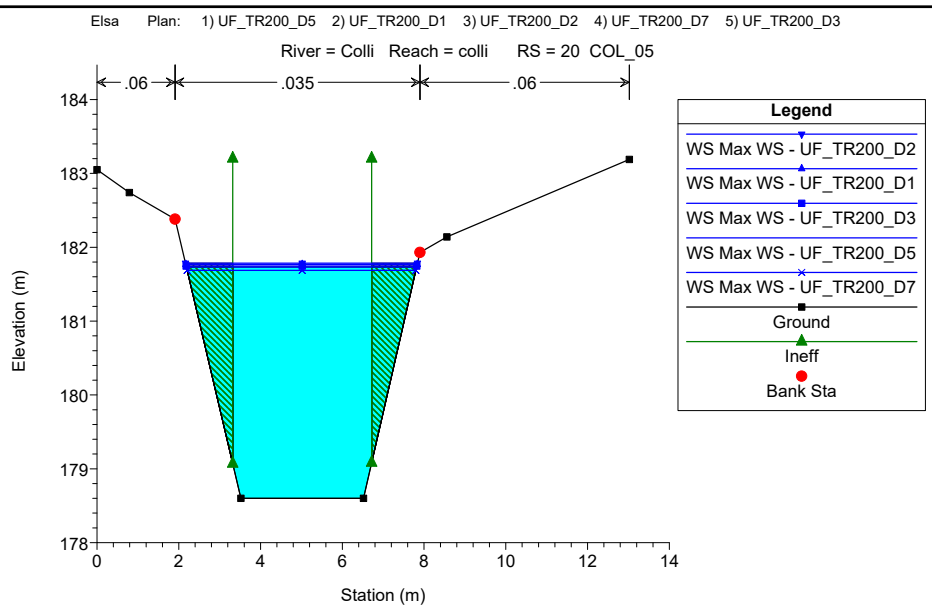
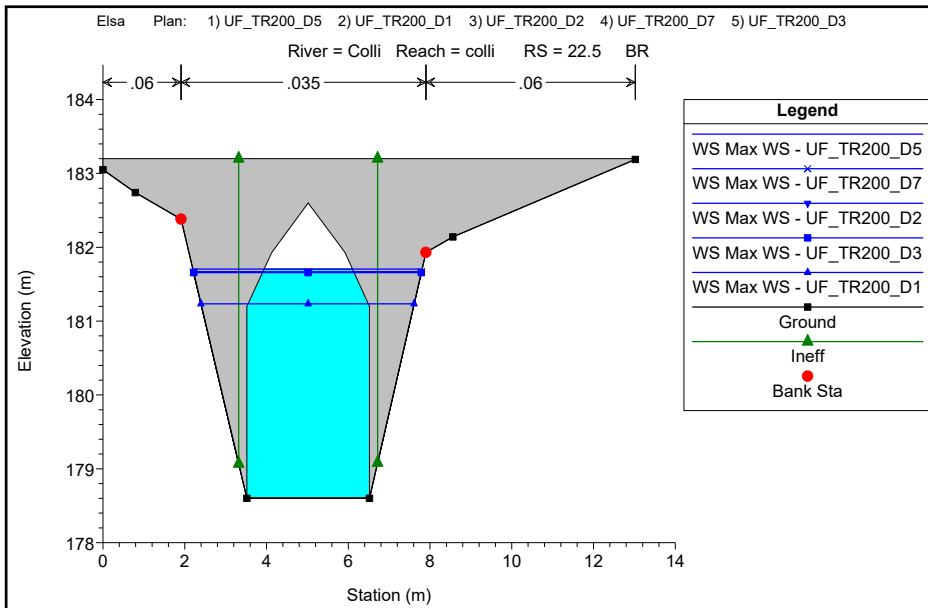
MODELLAZIONE PER TR=200 anni

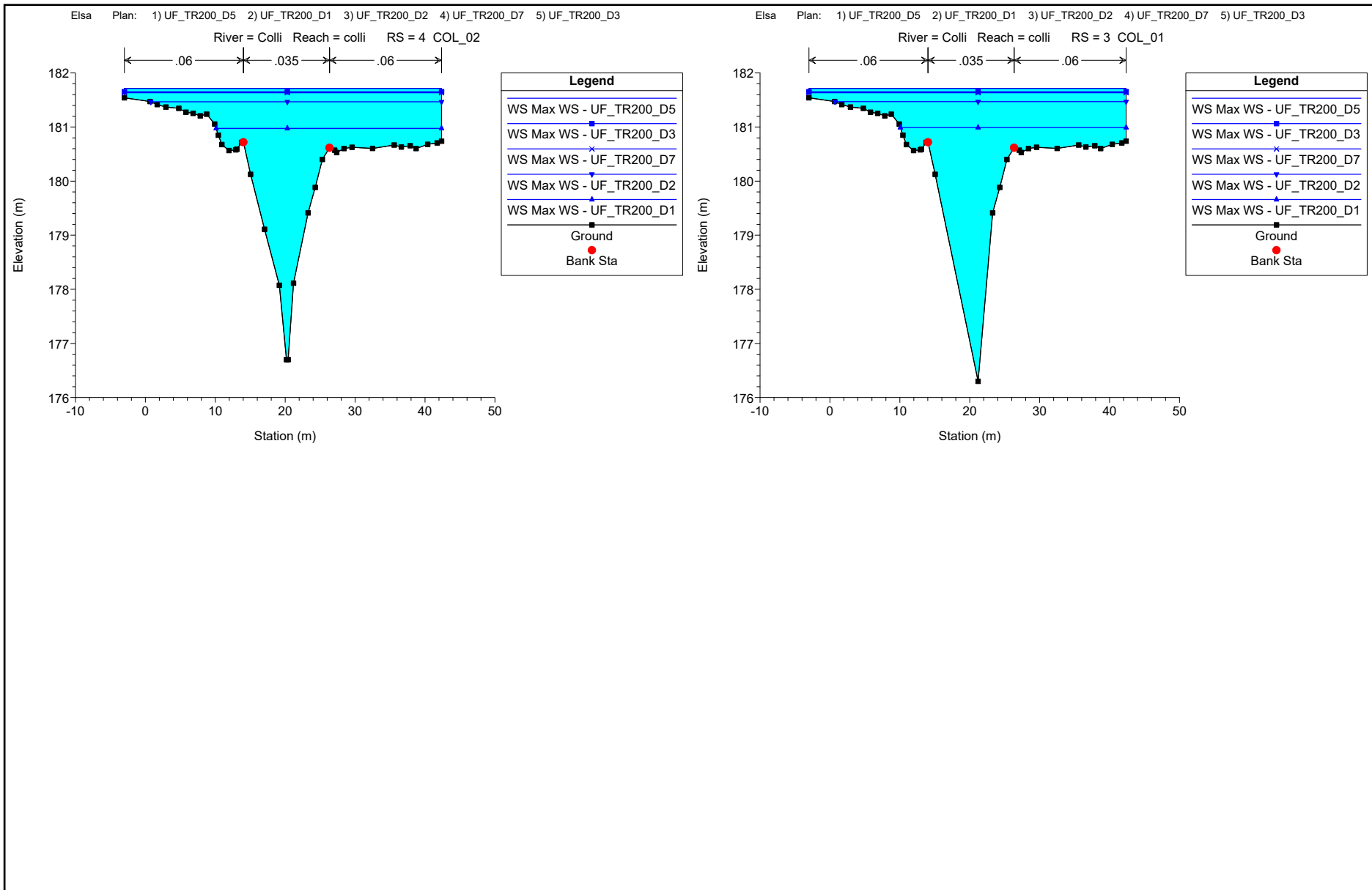
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Sezioni Trasversali (da monte verso valle)









ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO AI COLLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
colli	60	Max WS	UF_TR30_D1	34.92	181.46	183.89	183.96	184.71	0.013508	1.04	4.16	1.25	9.86	7.42	1.02
colli	60	Max WS	UF_TR30_D5	14.00	181.46	183.34		183.68	0.008737	0.62	2.59	0.37	5.82	7.42	0.77
colli	60	Max WS	UF_TR30_D7	11.20	181.46	183.19		183.48	0.009179	0.51	2.41	0.22	4.80	5.90	0.77
colli	60	Max WS	UF_TR30_D2	31.63	181.46	183.84	183.86	184.56	0.012317	0.98	3.89	1.14	9.49	7.42	0.97
colli	60	Max WS	UF_TR30_D3	25.47	181.46	183.76		184.29	0.009449	0.83	3.31	0.94	8.93	7.42	0.84
colli	59.9		Lat Struct												
colli	59.8		Lat Struct												
colli	50	Max WS	UF_TR30_D1	16.96	181.27	183.84	182.69	183.89	0.000751	0.37	1.10	0.33	21.65	18.29	0.25
colli	50	Max WS	UF_TR30_D5	14.00	181.27	183.00	182.56	183.25	0.004404		2.25		6.22	7.91	0.59
colli	50	Max WS	UF_TR30_D7	11.20	181.27	182.78	182.41	183.01	0.004792		2.11		5.30	5.83	0.60
colli	50	Max WS	UF_TR30_D2	17.42	181.27	183.76	182.72	183.82	0.000962	0.39	1.20	0.35	20.05	18.29	0.28
colli	50	Max WS	UF_TR30_D3	17.33	181.27	183.60	182.72	183.80	0.002164		1.98		8.75	18.29	0.44
colli	45		Bridge												
colli	40	Max WS	UF_TR30_D1	16.93	180.76	183.05		183.34	0.005086	0.94	2.47	1.26	7.34	23.67	0.56
colli	40	Max WS	UF_TR30_D5	14.00	180.76	182.48		182.92	0.011607	0.46	2.97	1.17	4.95	12.84	0.80
colli	40	Max WS	UF_TR30_D7	11.20	180.76	182.32		182.69	0.011059		2.69	0.91	4.31	6.73	0.77
colli	40	Max WS	UF_TR30_D2	17.40	180.76	182.97		183.31	0.006157	0.96	2.65	1.32	7.02	23.67	0.61
colli	40	Max WS	UF_TR30_D3	17.29	180.76	182.82		183.23	0.008160	0.91	2.88	1.37	6.39	23.67	0.70
colli	39		Lat Struct												
colli	30	Max WS	UF_TR30_D1	25.77	179.98	182.58		182.75	0.002509	0.62	1.92	0.33	17.21	18.10	0.45
colli	30	Max WS	UF_TR30_D5	13.98	179.98	181.66		181.94	0.009027		2.36		5.92	6.23	0.77
colli	30	Max WS	UF_TR30_D7	11.20	179.98	181.49		181.75	0.008983		2.26		4.95	5.51	0.76
colli	30	Max WS	UF_TR30_D2	24.46	179.98	182.47		182.66	0.002891	0.61	1.98	0.31	15.34	16.65	0.48
colli	30	Max WS	UF_TR30_D3	22.65	179.98	182.23		182.47	0.004440	0.56	2.22	0.40	11.84	12.77	0.58
colli	25	Max WS	UF_TR30_D1	32.65	178.60	182.10	180.74	182.49	0.002232		2.76		11.82	6.42	0.47
colli	25	Max WS	UF_TR30_D5	13.52	178.60	181.18	179.80	181.31	0.010666		1.56		8.69	5.17	0.31
colli	25	Max WS	UF_TR30_D7	11.18	178.60	181.10	179.66	181.19	0.000812		1.33		8.41	5.10	0.27
colli	25	Max WS	UF_TR30_D2	28.91	178.60	182.01	180.58	182.33	0.001911		2.51		11.51	6.09	0.44
colli	25	Max WS	UF_TR30_D3	25.23	178.60	181.73	180.40	182.02	0.001956		2.40		10.53	5.63	0.43
colli	22.5		Bridge												
colli	20	Max WS	UF_TR30_D1	32.65	178.60	181.40		182.01	0.004718		3.46		9.44	5.36	0.66
colli	20	Max WS	UF_TR30_D5	13.42	178.60	181.08		181.21	0.001204		1.61		8.34	5.08	0.33
colli	20	Max WS	UF_TR30_D7	10.95	178.60	181.04		181.13	0.000853		1.34		8.18	5.05	0.28
colli	20	Max WS	UF_TR30_D2	30.64	178.60	181.37		181.92	0.004331		3.29		9.32	5.33	0.63
colli	20	Max WS	UF_TR30_D3	24.95	178.60	181.22		181.63	0.003463		2.84		8.80	5.20	0.56
colli	19		Lat Struct												
colli	18		Lat Struct												
colli	10	Max WS	UF_TR30_D1	32.62	177.74	180.92		181.32	0.007254	0.51	2.82		12.01	8.87	0.68
colli	10	Max WS	UF_TR30_D5	12.21	177.74	181.04		181.09	0.000829	0.20	0.98		13.09	9.70	0.23
colli	10	Max WS	UF_TR30_D7	10.76	177.74	181.00		181.04	0.000687	0.17	0.89		12.74	9.44	0.21
colli	10	Max WS	UF_TR30_D2	30.30	177.74	181.00		181.31	0.005422	0.49	2.49		12.76	9.45	0.59
colli	10	Max WS	UF_TR30_D3	24.07	177.74	181.00		181.19	0.003462	0.39	1.99		12.70	9.41	0.47
colli	5	Max WS	UF_TR30_D1	32.13	177.40	180.25		180.53	0.005213	0.18	2.33		13.79	10.20	0.63
colli	5	Max WS	UF_TR30_D5	12.16	177.40	181.03		181.04	0.000145	0.11	0.52	0.11	30.58	32.39	0.11
colli	5	Max WS	UF_TR30_D7	10.76	177.40	180.99		181.00	0.000123	0.09	0.47	0.09	29.40	32.30	0.10
colli	5	Max WS	UF_TR30_D2	25.90	177.40	180.75		180.84	0.001190	0.18	1.35	0.15	21.82	31.66	0.32
colli	5	Max WS	UF_TR30_D3	20.68	177.40	180.91		180.96	0.000534	0.17	0.96	0.17	26.92	32.10	0.22
colli	4	Max WS	UF_TR30_D1	32.01	176.70	180.17		180.45	0.005733		2.32		13.82	9.90	0.63
colli	4	Max WS	UF_TR30_D5	12.16	176.70	181.03		181.04	0.000155	0.10	0.48	0.11	31.39	32.39	0.11
colli	4	Max WS	UF_TR30_D7	10.76	176.70	180.99		181.00	0.000131	0.09	0.44	0.09	30.21	32.29	0.10
colli	4	Max WS	UF_TR30_D2	25.95	176.70	180.74		180.82	0.001350	0.15	1.27	0.14	22.30	31.62	0.32
colli	4	Max WS	UF_TR30_D3	19.05	176.70	180.91		180.94	0.000491	0.15	0.82	0.16	27.66	32.09	0.19
colli	3	Max WS	UF_TR30_D1	31.98	176.30	180.23		180.39	0.002520		1.78		18.01	10.10	0.42
colli	3	Max WS	UF_TR30_D5	12.16	176.30	181.03		181.04	0.000101	0.08	0.42	0.09	35.10	32.39	0.09
colli	3	Max WS	UF_TR30_D7	10.76	176.30	180.99		181.00	0.000085	0.07	0.38	0.08	33.92	32.30	0.08
colli	3	Max WS	UF_TR30_D2	25.97	176.30	180.76		180.81	0.000781	0.12	1.07	0.12	26.45	31.67	0.24
colli	3	Max WS	UF_TR30_D3	20.57	176.30	180.91		180.94	0.000359	0.13	0.76	0.13	31.49	32.10	0.17

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO AI COLLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
colli	60	Max WS	UF_TR200_D5	20.60	181.46	183.65		184.06	0.008079	0.74	2.91	0.76	8.10	7.42	0.77
colli	60	Max WS	UF_TR200_D1	50.27	181.46	184.10	184.36	185.40	0.018519	1.28	5.26	1.67	11.41	7.42	1.22
colli	60	Max WS	UF_TR200_D2	45.49	181.46	184.03	184.24	185.19	0.017069	1.21	4.94	1.55	10.95	7.42	1.16
colli	60	Max WS	UF_TR200_D7	16.70	181.46	183.51		183.85	0.007715	0.67	2.65	0.59	7.03	7.42	0.74
colli	60	Max WS	UF_TR200_D3	36.80	181.46	183.92	184.01	184.80	0.014124	1.07	4.30	1.30	10.07	7.42	1.04
colli	59.9		Lat Struct												
colli	59.8		Lat Struct												
colli	50	Max WS	UF_TR200_D5	16.68	181.27	183.49	182.69	183.69	0.002401		2.01		8.29	18.29	0.46
colli	50	Max WS	UF_TR200_D1	16.76	181.27	184.10	182.69	184.13	0.000442	0.33	0.91	0.30	26.25	18.29	0.20
colli	50	Max WS	UF_TR200_D2	16.37	181.27	184.04	182.67	184.08	0.000466	0.33	0.92	0.30	25.27	18.29	0.20
colli	50	Max WS	UF_TR200_D7	16.68	181.27	183.25	182.69	183.52	0.003702		2.29		7.28	18.29	0.56
colli	50	Max WS	UF_TR200_D3	16.34	181.27	183.90	182.67	183.94	0.000617	0.35	1.01	0.31	22.70	18.29	0.23
colli	45		Bridge												
colli	40	Max WS	UF_TR200_D5	16.67	180.76	182.72		183.15	0.009352	0.84	2.97	1.35	5.97	23.67	0.74
colli	40	Max WS	UF_TR200_D1	16.27	180.76	183.35		183.54	0.002847	0.89	2.03	1.11	8.60	23.67	0.43
colli	40	Max WS	UF_TR200_D2	16.10	180.76	183.32		183.52	0.002925	0.88	2.04	1.11	8.47	23.67	0.43
colli	40	Max WS	UF_TR200_D7	16.64	180.76	182.62		183.12	0.011637	0.76	3.18	1.37	5.55	22.51	0.81
colli	40	Max WS	UF_TR200_D3	16.30	180.76	183.12		183.37	0.004115	0.90	2.28	1.19	7.66	23.67	0.51
colli	39		Lat Struct												
colli	30	Max WS	UF_TR200_D5	19.22	179.98	182.16		182.36	0.003867	0.46	2.00	0.33	10.93	12.56	0.54
colli	30	Max WS	UF_TR200_D1	24.35	179.98	183.16		183.22	0.000688	0.45	1.21	0.35	28.99	20.64	0.25
colli	30	Max WS	UF_TR200_D2	23.17	179.98	183.15		183.20	0.000643	0.43	1.16	0.33	28.61	20.64	0.24
colli	30	Max WS	UF_TR200_D7	16.59	179.98	182.00		182.20	0.004630	0.31	2.01	0.25	8.89	12.07	0.58
colli	30	Max WS	UF_TR200_D3	24.34	179.98	182.83		182.93	0.001306	0.53	1.51	0.33	22.15	20.64	0.33
colli	25	Max WS	UF_TR200_D5	20.16	178.60	181.89	180.16	182.06	0.001054		1.82		11.08	5.76	0.32
colli	25	Max WS	UF_TR200_D1	40.57	178.60	182.69	181.07	183.13	0.002055		2.94		13.80	9.92	0.47
colli	25	Max WS	UF_TR200_D2	37.71	178.60	182.76	180.95	183.13	0.001669		2.68		14.05	10.47	0.42
colli	25	Max WS	UF_TR200_D7	16.47	178.60	181.79	179.97	181.91	0.000782		1.53		10.73	5.68	0.28
colli	25	Max WS	UF_TR200_D3	33.71	178.60	182.44	180.78	182.78	0.001749		2.60		12.96	8.10	0.43
colli	22.5		Bridge												
colli	20	Max WS	UF_TR200_D5	19.42	178.60	181.73		181.91	0.001149		1.84		10.56	5.63	0.33
colli	20	Max WS	UF_TR200_D1	40.54	178.60	181.77		182.50	0.004831		3.80		10.67	5.66	0.68
colli	20	Max WS	UF_TR200_D2	40.20	178.60	181.78		182.50	0.004662		3.75		10.73	5.68	0.67
colli	20	Max WS	UF_TR200_D7	16.36	178.60	181.69		181.81	0.000857		1.57		10.40	5.59	0.29
colli	20	Max WS	UF_TR200_D3	32.69	178.60	181.75		182.23	0.003212		3.08		10.60	5.64	0.56
colli	19		Lat Struct												
colli	18		Lat Struct												
colli	10	Max WS	UF_TR200_D5	19.51	177.74	181.75		181.80	0.000610	0.31	1.04	0.15	24.26	25.19	0.21
colli	10	Max WS	UF_TR200_D1	41.78	177.74	181.35		181.74	0.005655	0.69	2.81	0.25	16.55	13.08	0.61
colli	10	Max WS	UF_TR200_D2	37.10	177.74	181.57		181.80	0.003067	0.62	2.21	0.21	19.91	20.34	0.46
colli	10	Max WS	UF_TR200_D7	16.35	177.74	181.70		181.74	0.000471	0.26	0.90	0.12	22.91	23.94	0.18
colli	10	Max WS	UF_TR200_D3	32.63	177.74	181.74		181.88	0.001751	0.52	1.75	0.25	23.89	24.85	0.35
colli	5	Max WS	UF_TR200_D5	32.25	177.40	181.72		181.75	0.000282	0.19	0.87	0.29	57.62	45.37	0.17
colli	5	Max WS	UF_TR200_D1	38.71	177.40	180.99		181.13	0.001586	0.34	1.69	0.34	29.42	32.30	0.37
colli	5	Max WS	UF_TR200_D2	45.23	177.40	181.47		181.56	0.000858	0.27	1.43	0.42	46.65	41.72	0.29
colli	5	Max WS	UF_TR200_D7	35.17	177.40	181.64		181.68	0.000385	0.20	1.00	0.32	54.05	45.37	0.19
colli	5	Max WS	UF_TR200_D3	47.65	177.40	181.66		181.73	0.000679	0.27	1.33	0.43	55.10	45.37	0.26
colli	4	Max WS	UF_TR200_D5	32.08	176.70	181.71		181.74	0.000283	0.18	0.80	0.28	58.30	45.37	0.16
colli	4	Max WS	UF_TR200_D1	38.58	176.70	180.97		181.09	0.001741	0.32	1.58	0.34	29.73	32.26	0.37
colli	4	Max WS	UF_TR200_D2	45.20	176.70	181.47		181.54	0.000887	0.25	1.32	0.43	47.22	41.60	0.27
colli	4	Max WS	UF_TR200_D7	35.16	176.70	181.63		181.67	0.000393	0.19	0.92	0.32	54.72	45.37	0.18
colli	4	Max WS	UF_TR200_D3	47.55	176.70	181.65		181.72	0.000694	0.26	1.23	0.43	55.59	45.37	0.25
colli	3	Max WS	UF_TR200_D5	32.18	176.30	181.71		181.74	0.000219	0.16	0.74	0.25	61.94	45.37	0.14
colli	3	Max WS	UF_TR200_D1	39.37	176.30	180.99		181.08	0.001136	0.26	1.39	0.28	33.93	32.30	0.30
colli	3	Max WS	UF_TR200_D2	45.17	176.30	181.47		181.53	0.000646	0.21	1.20	0.36	50.99	41.64	0.23
colli	3	Max WS	UF_TR200_D7	35.16	176.30	181.63		181.67	0.000297	0.16	0.85	0.28	58.38	45.37	0.16
colli	3	Max WS	UF_TR200_D3	47.47	176.30	181.65		181.71	0.000526	0.23	1.13	0.37	59.23	45.37	0.21

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FIUME ELSA

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici



ALLEGATI

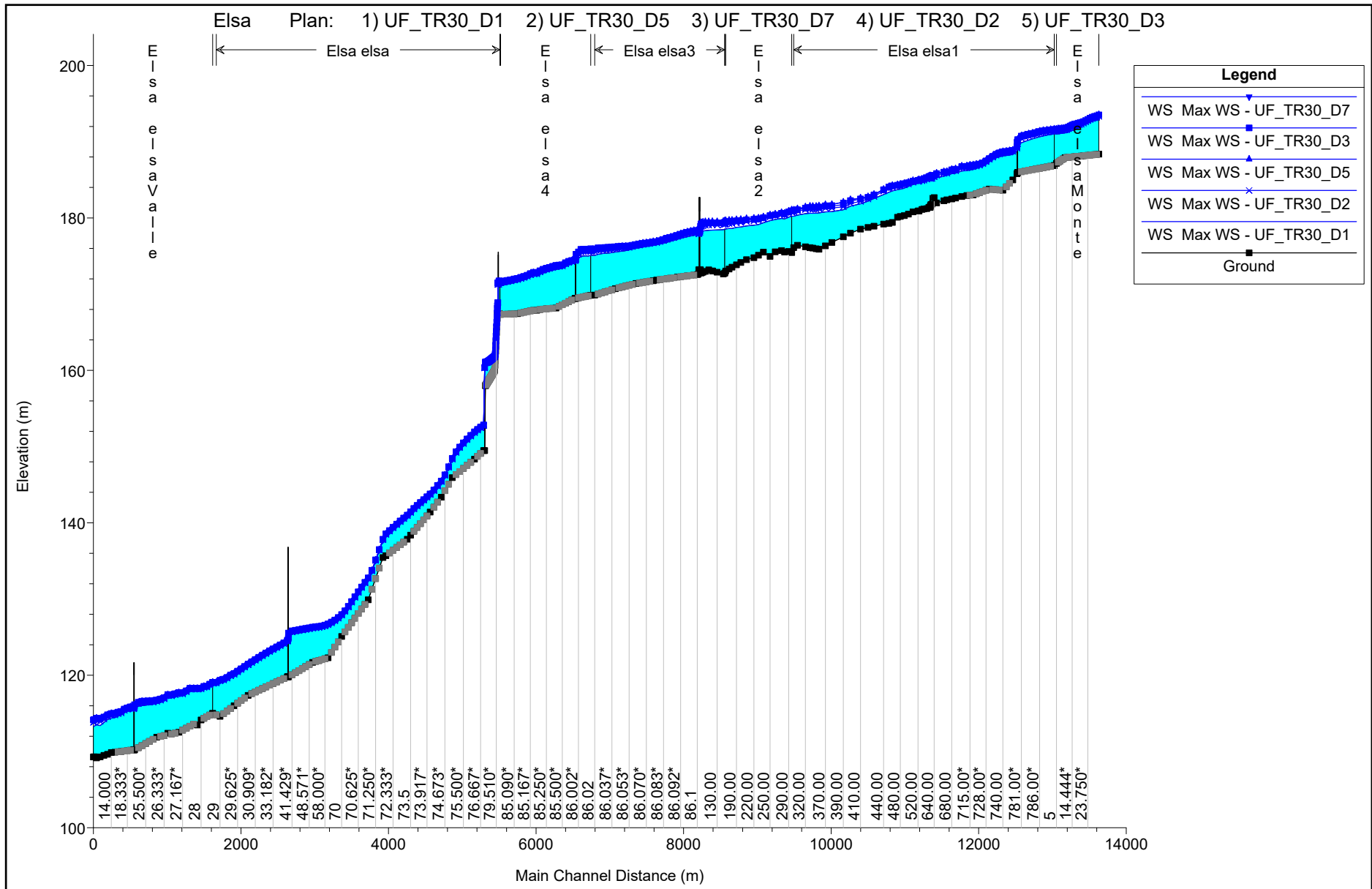
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FIUME ELSA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

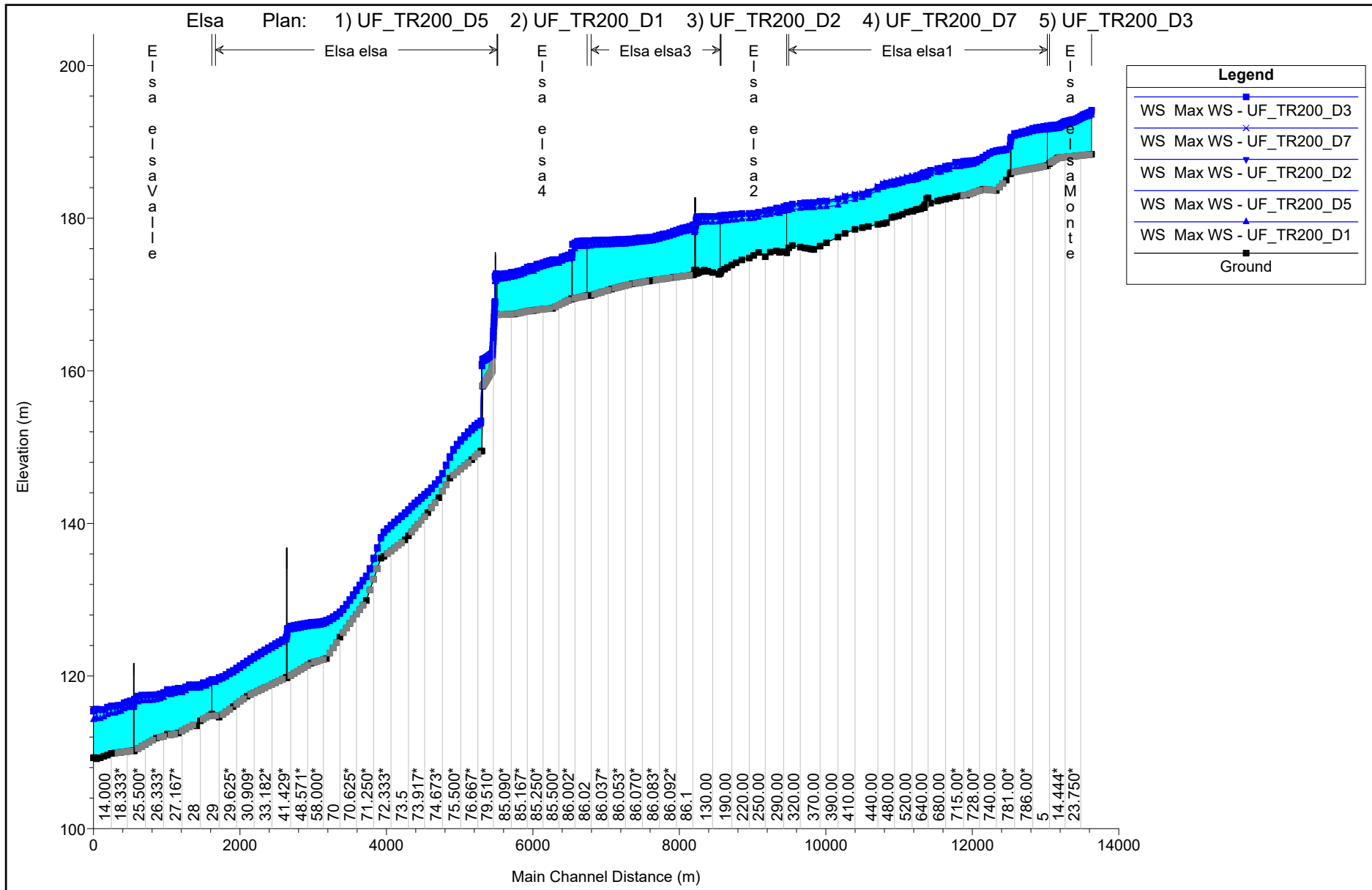
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FIUME ELSA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

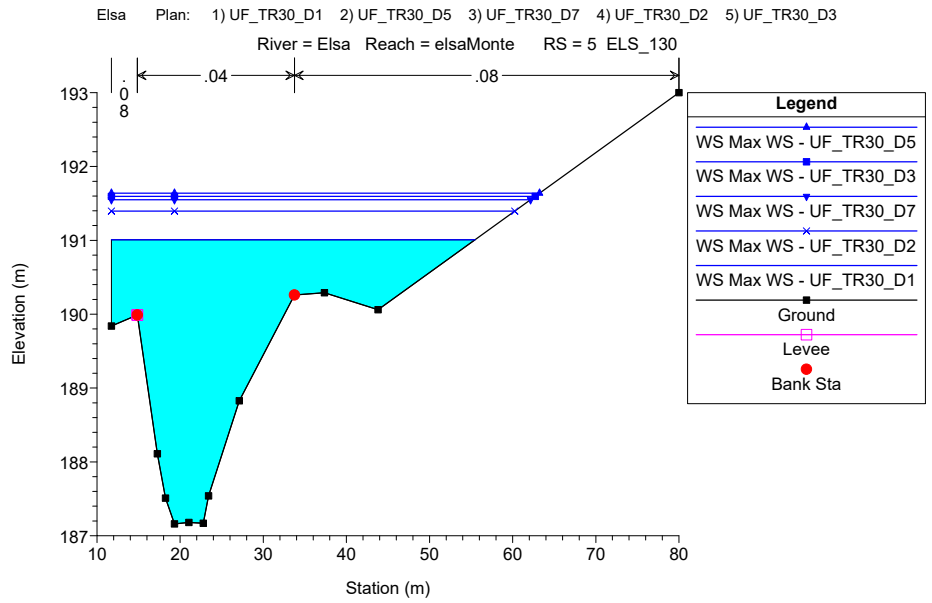
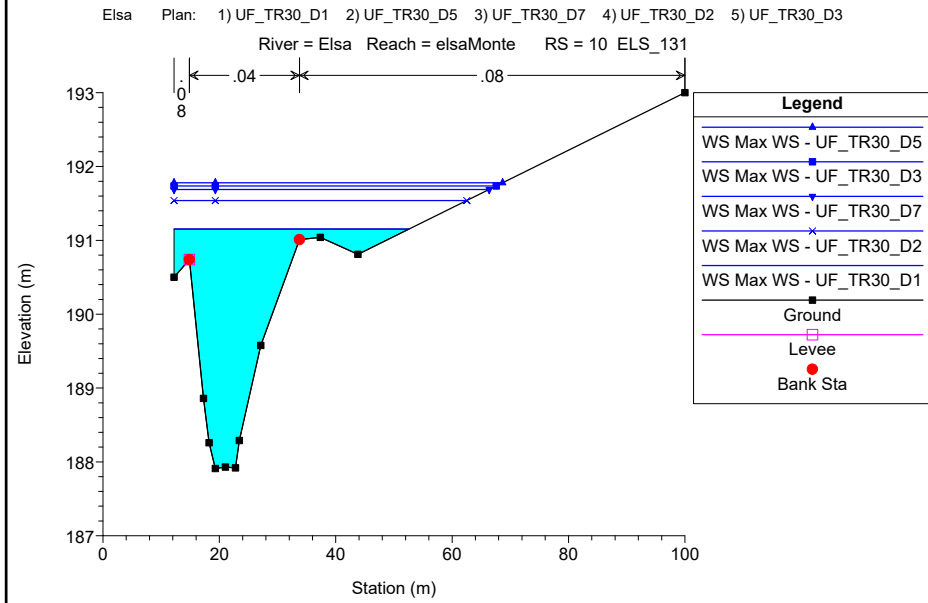
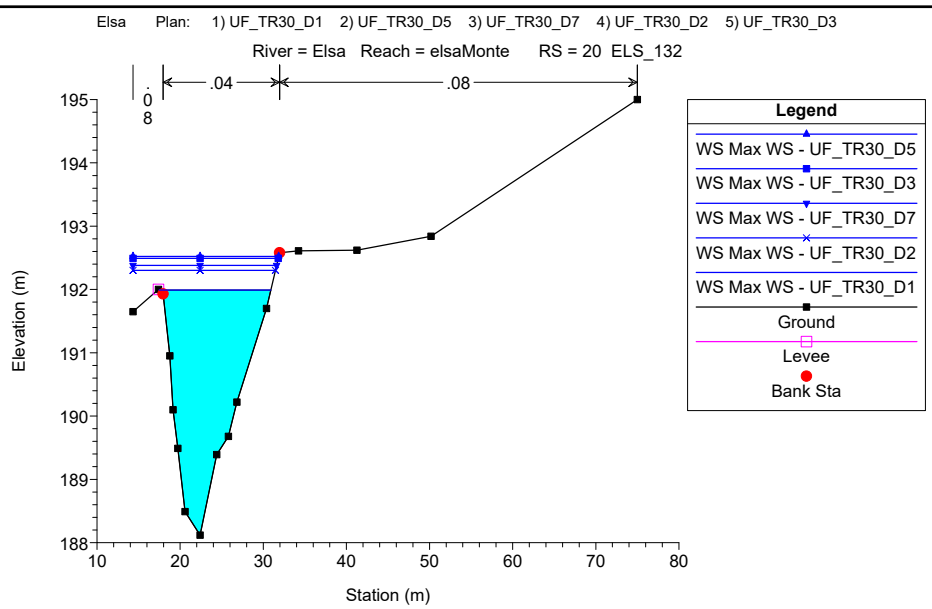
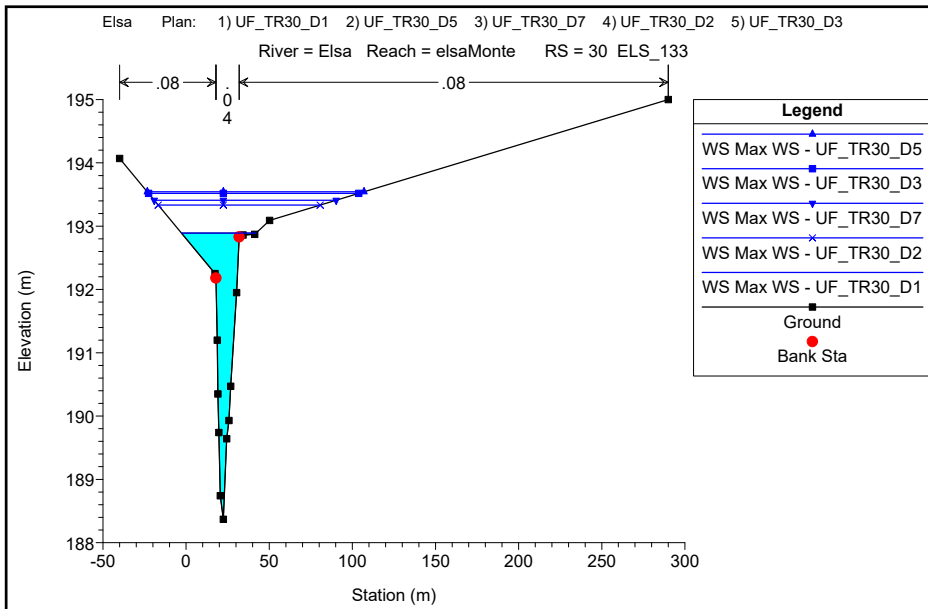
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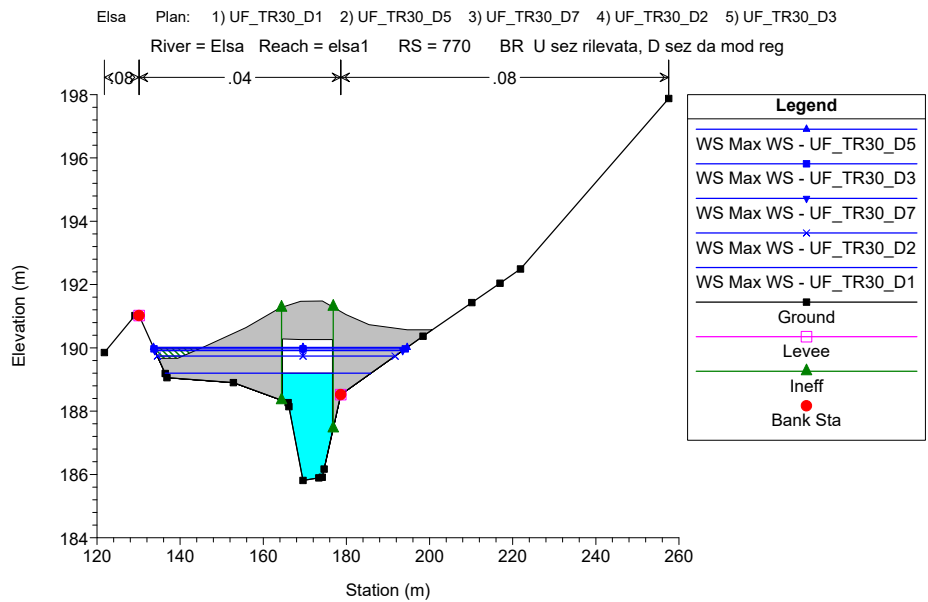
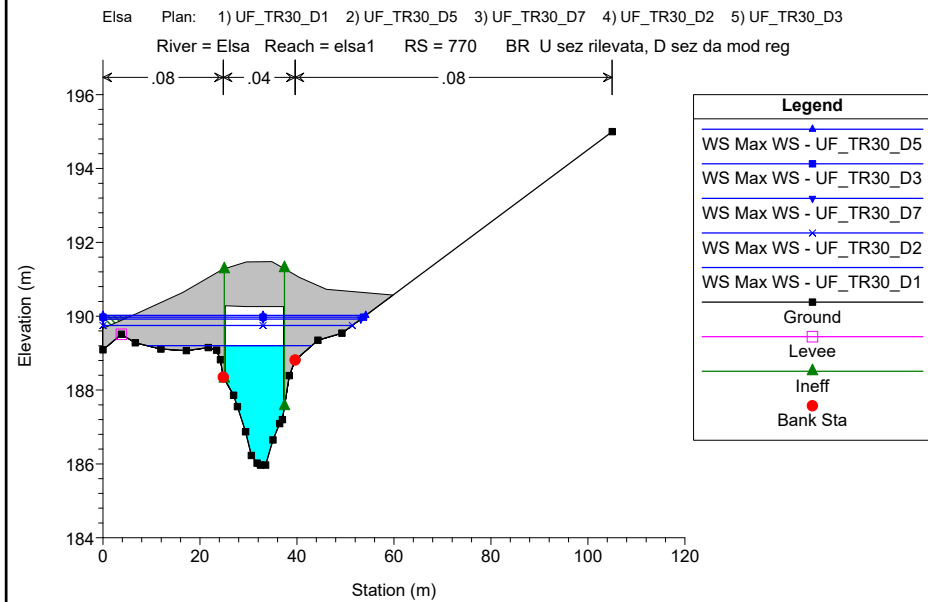
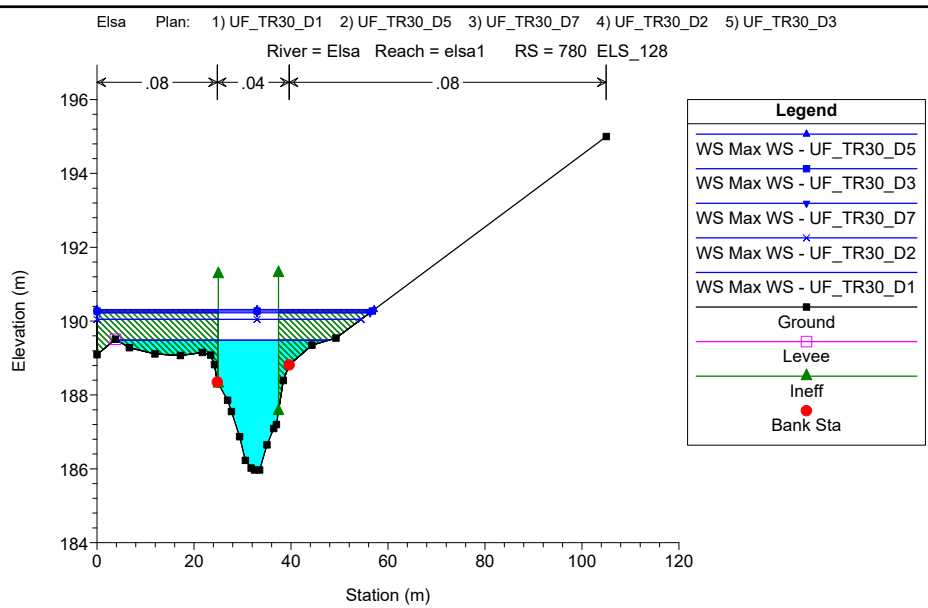
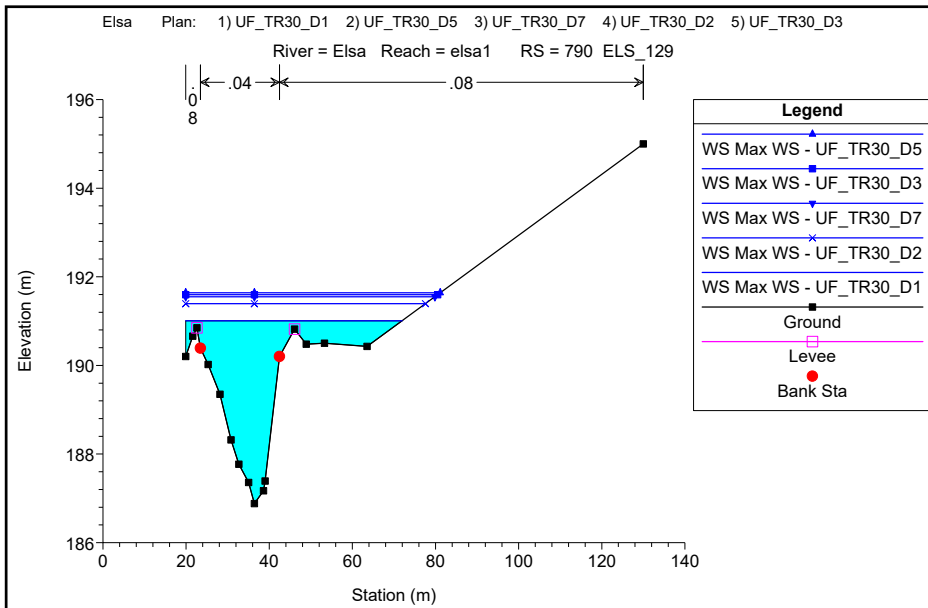
FIUME ELSA

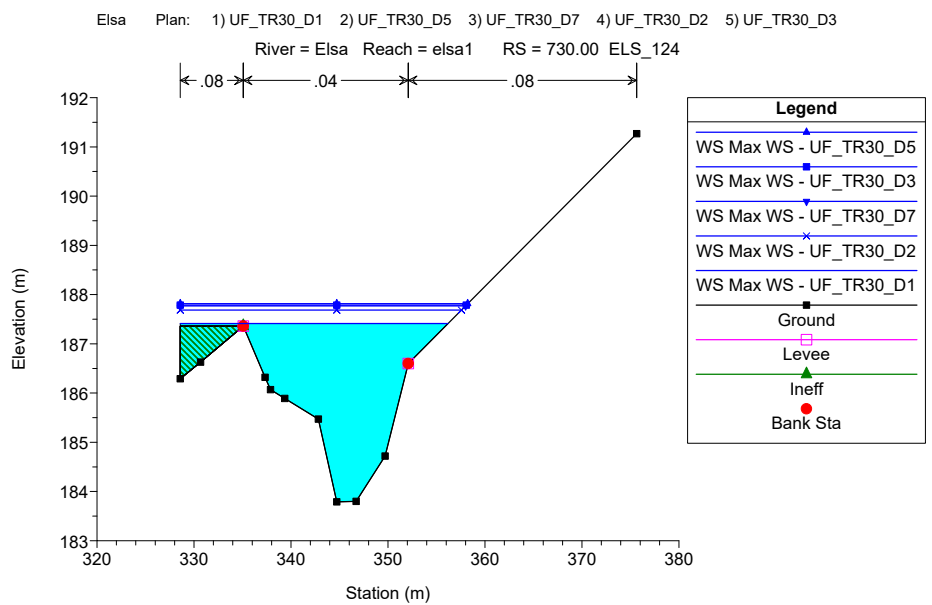
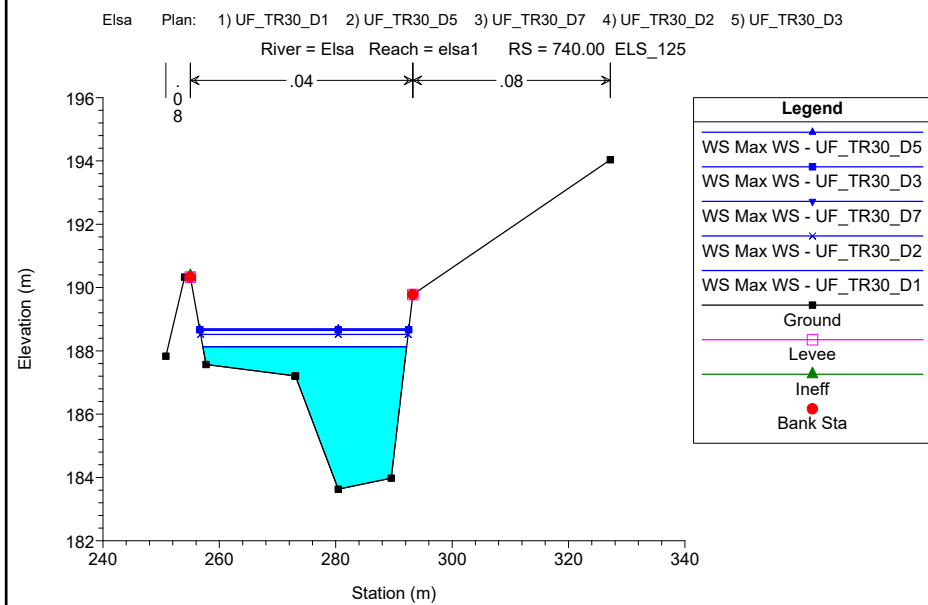
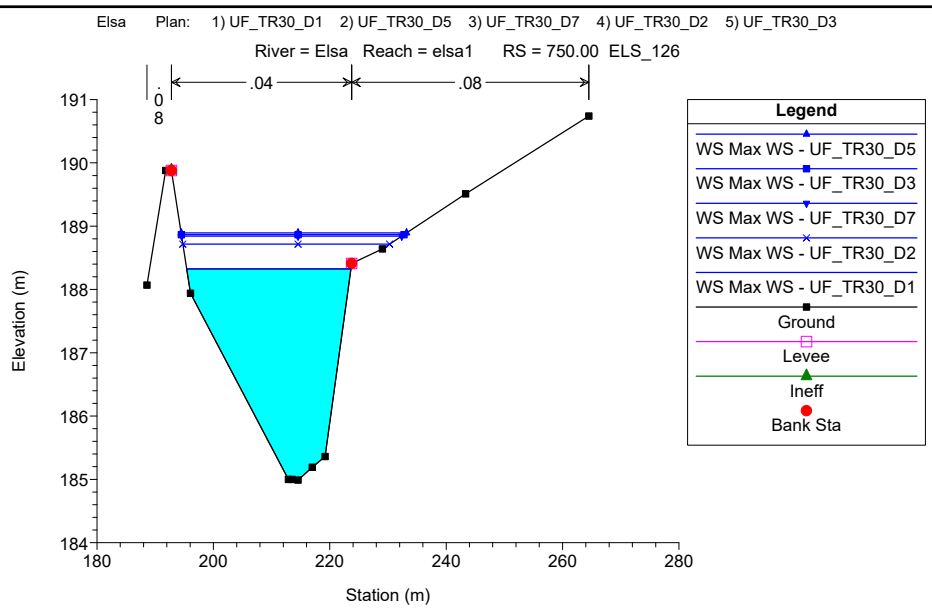
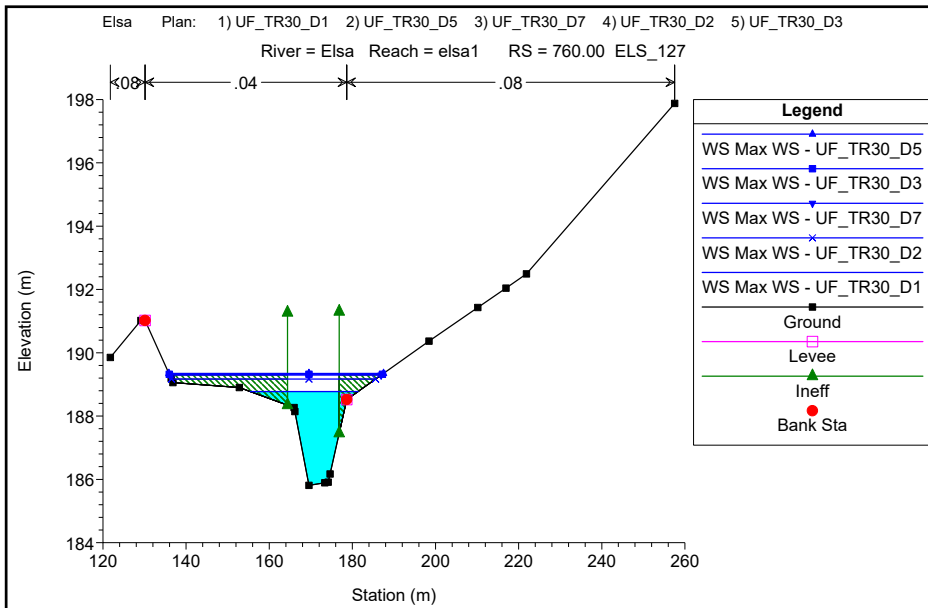
MODELLAZIONE PER TR=30 anni

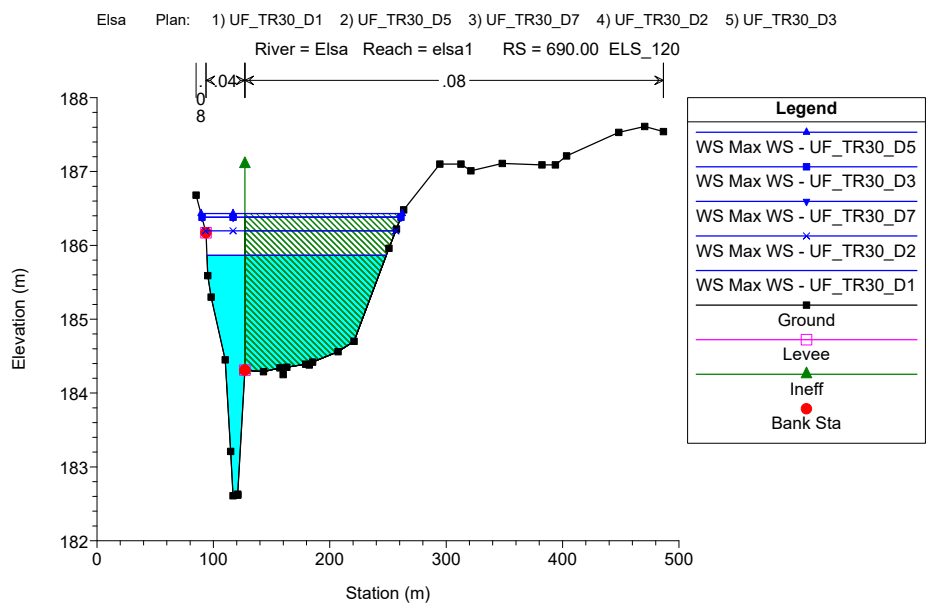
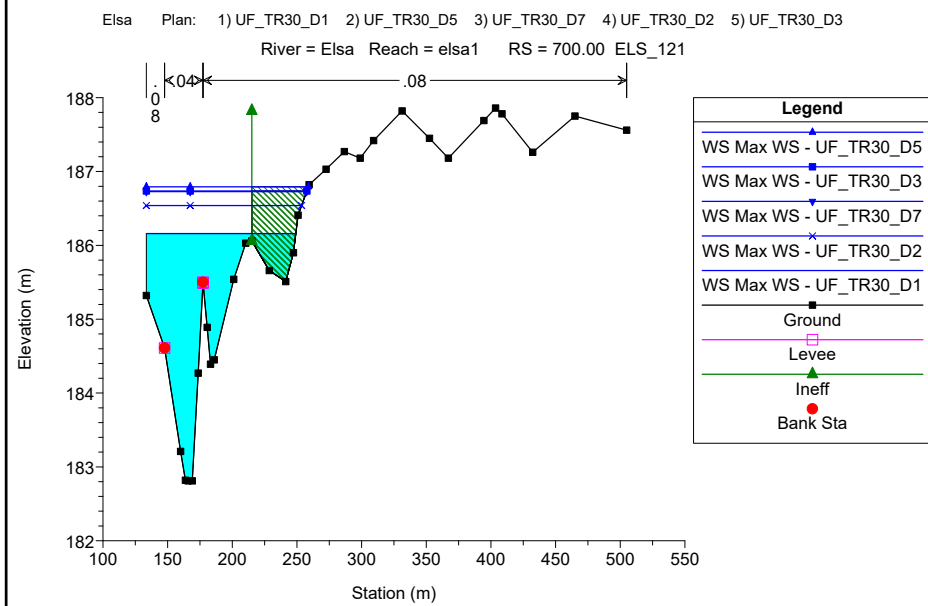
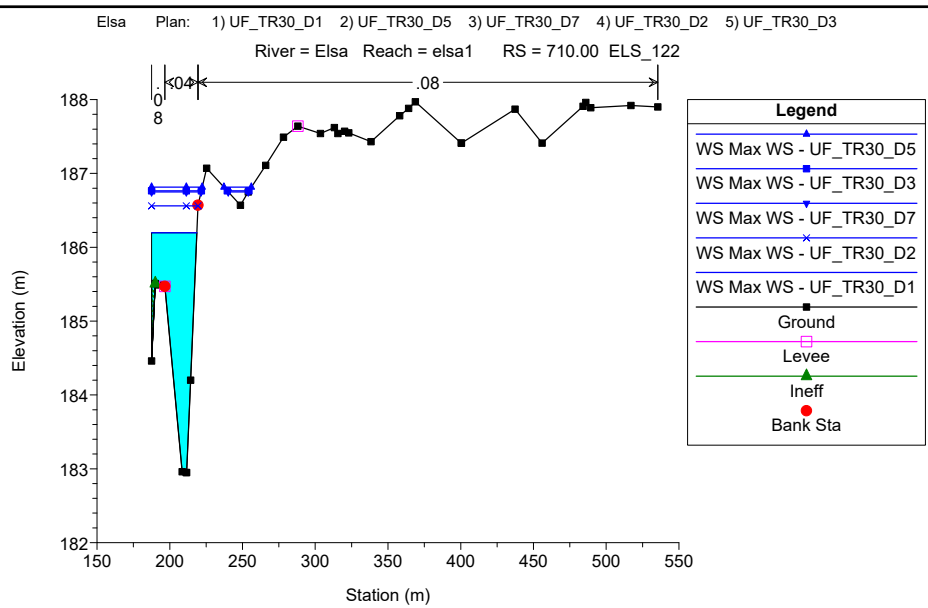
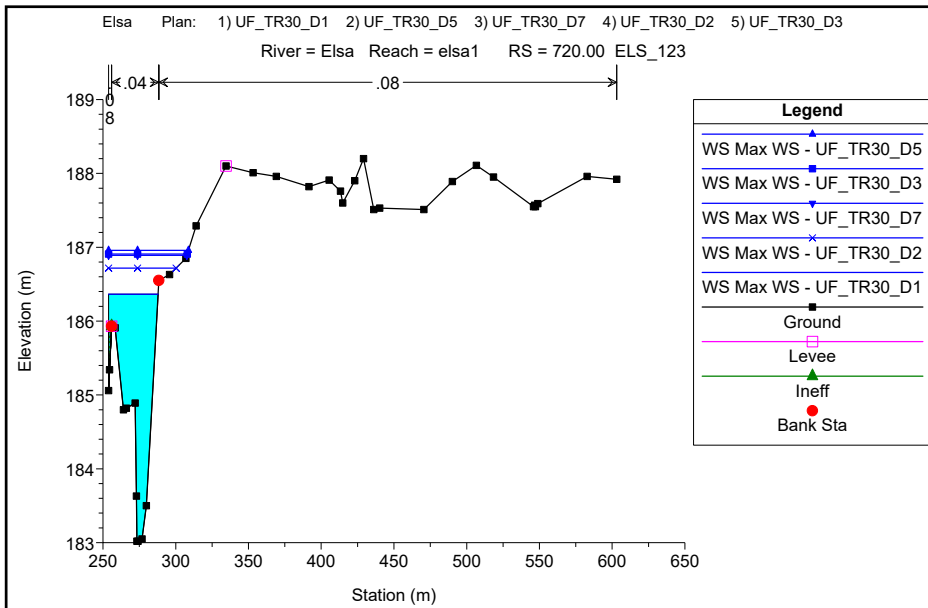
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

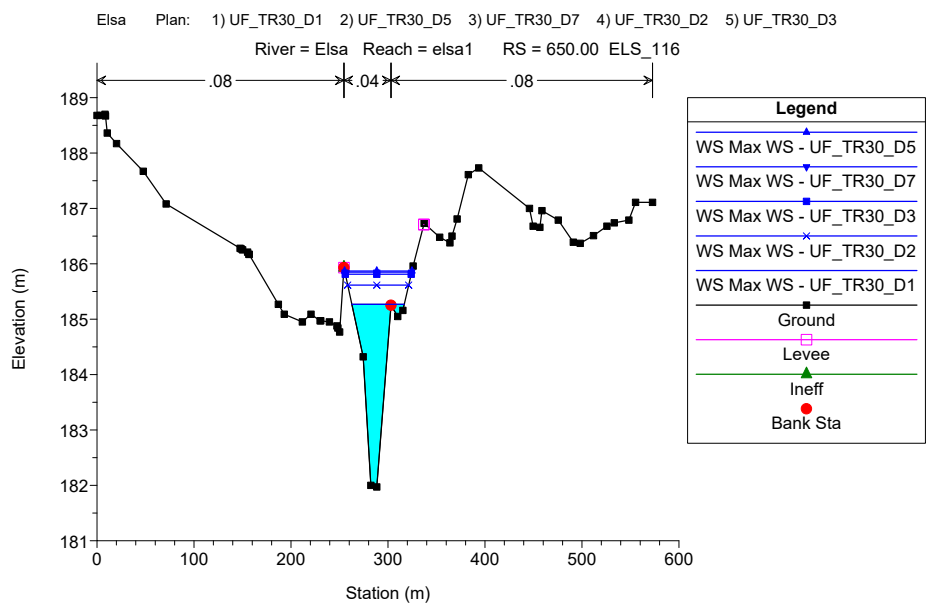
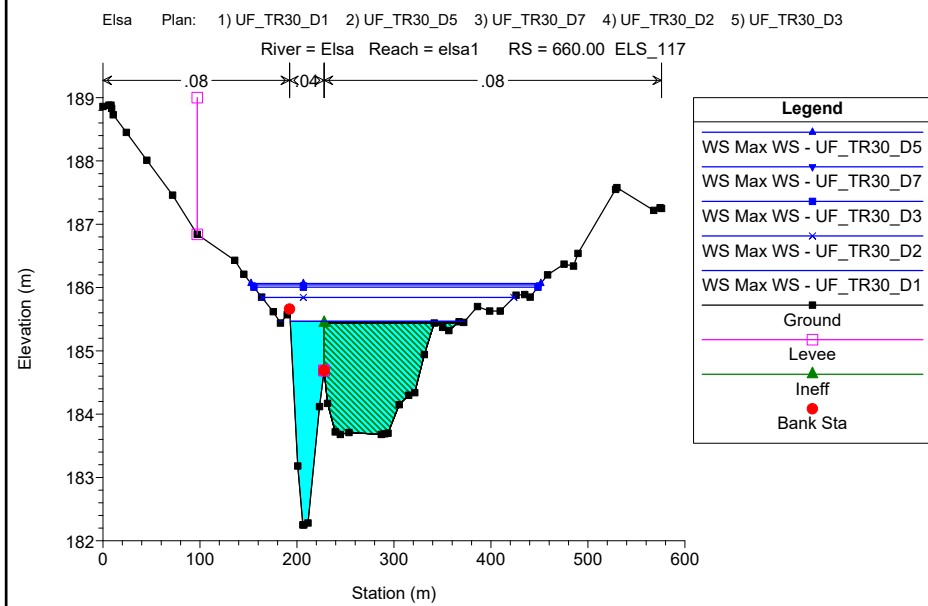
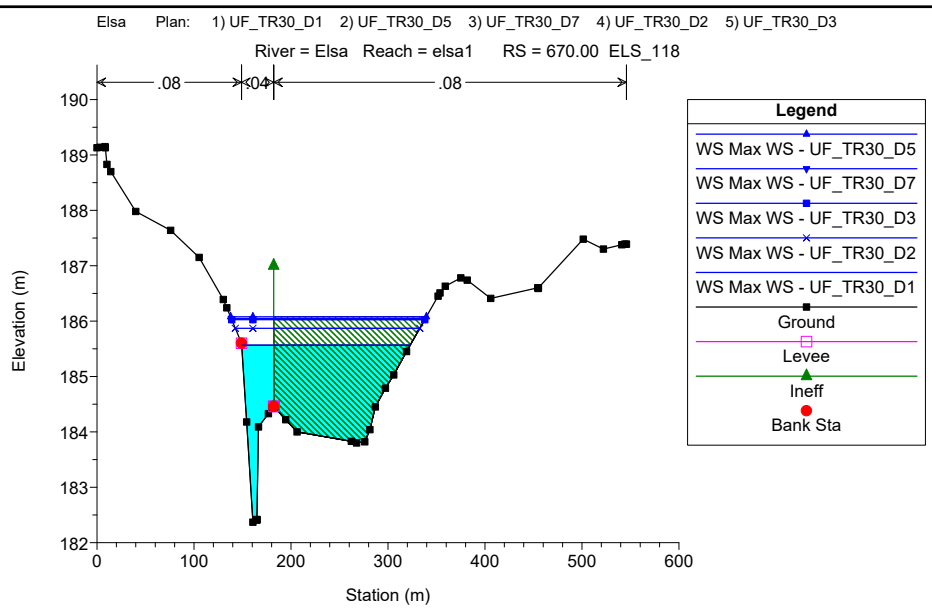
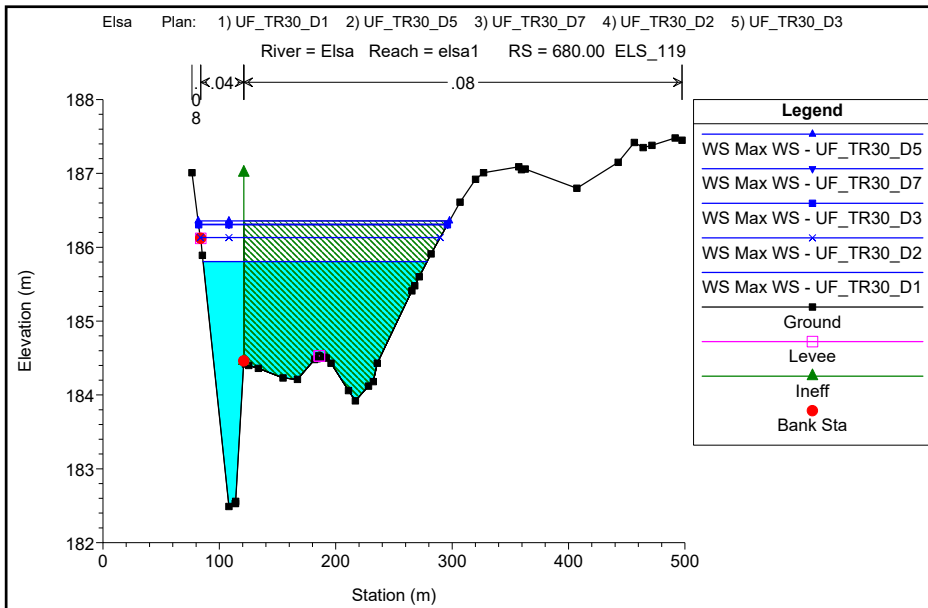
Sezioni Trasversali (da monte verso valle)

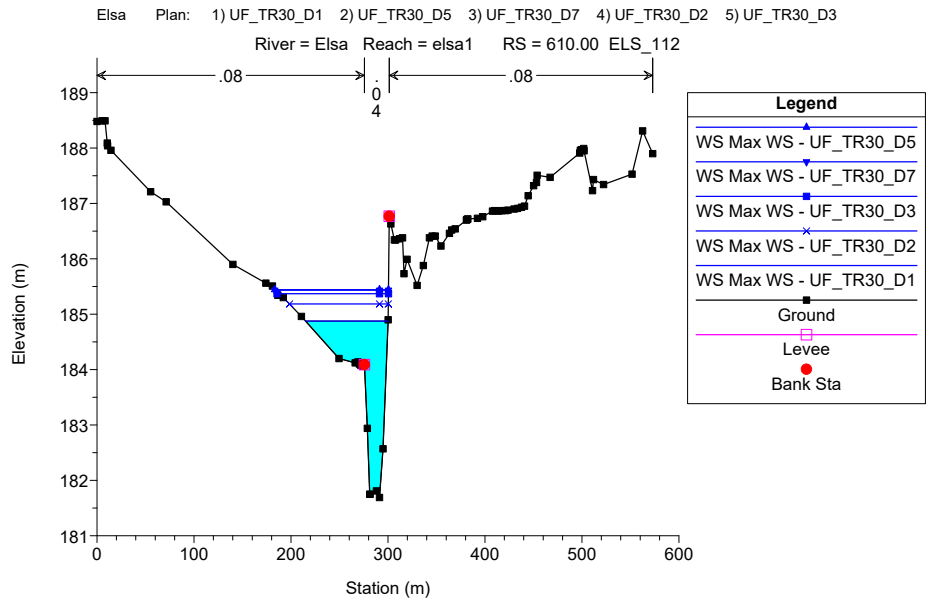
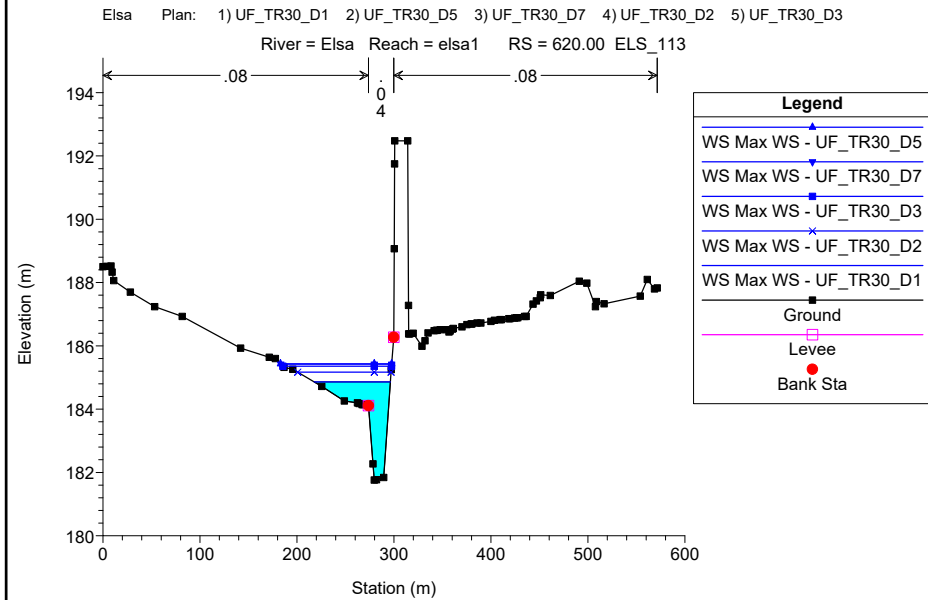
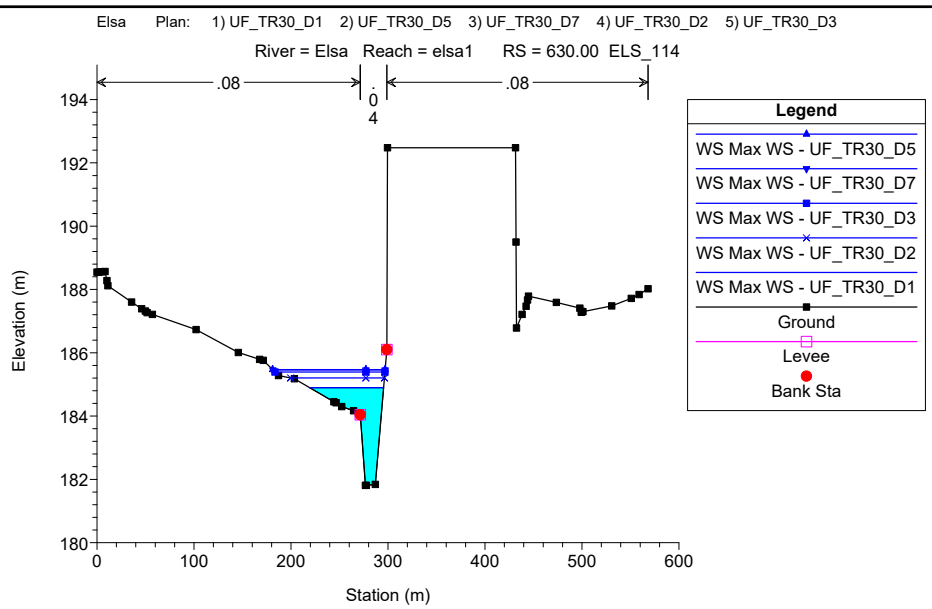
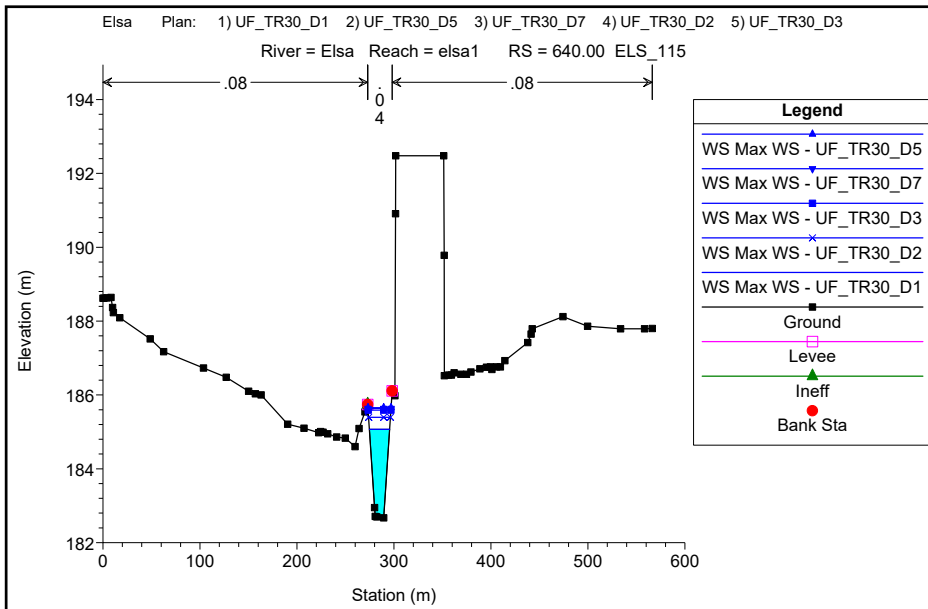


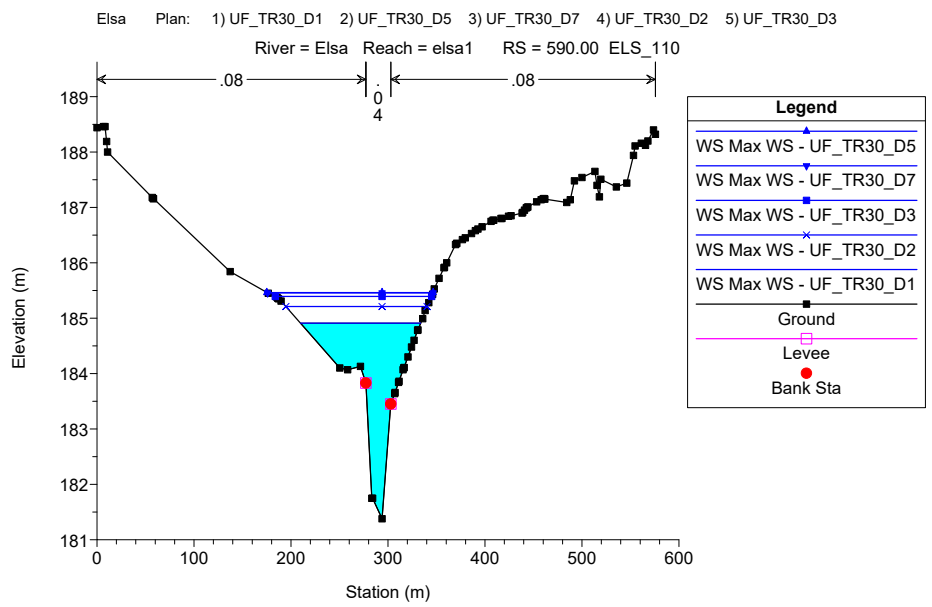
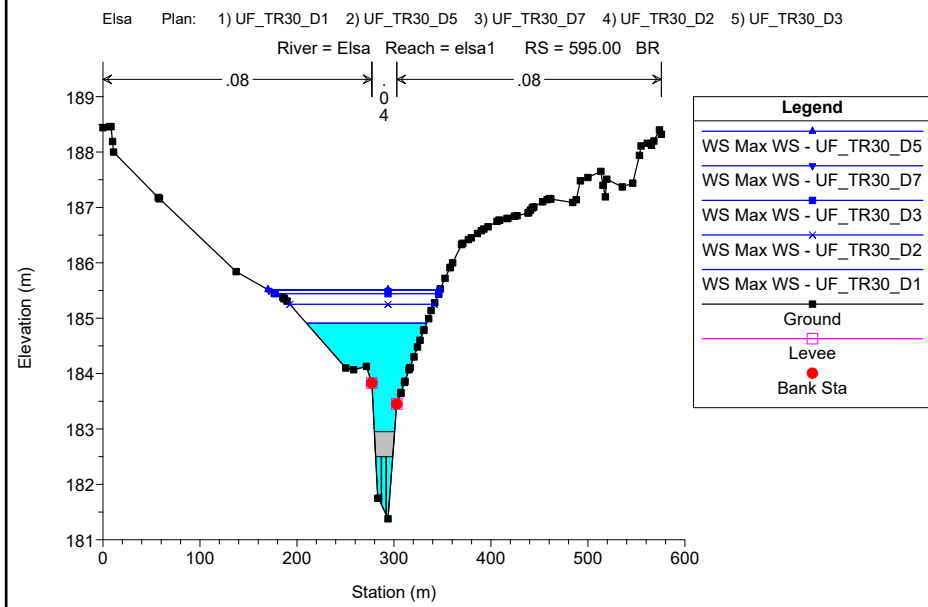
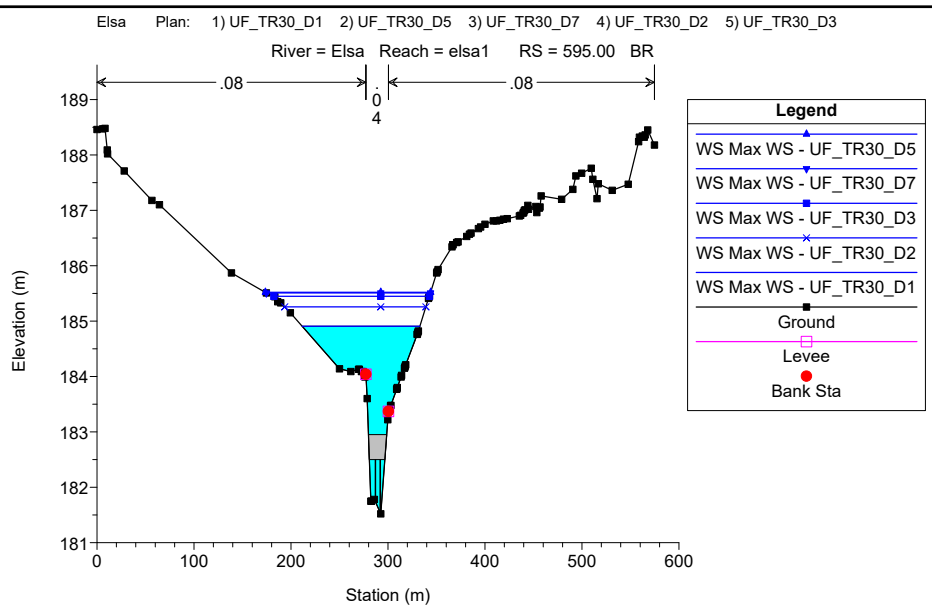
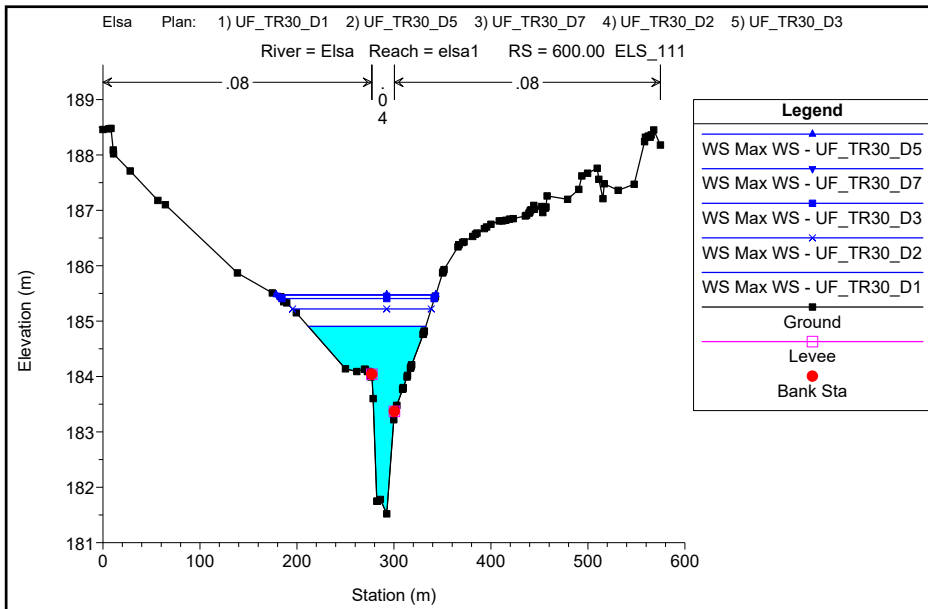


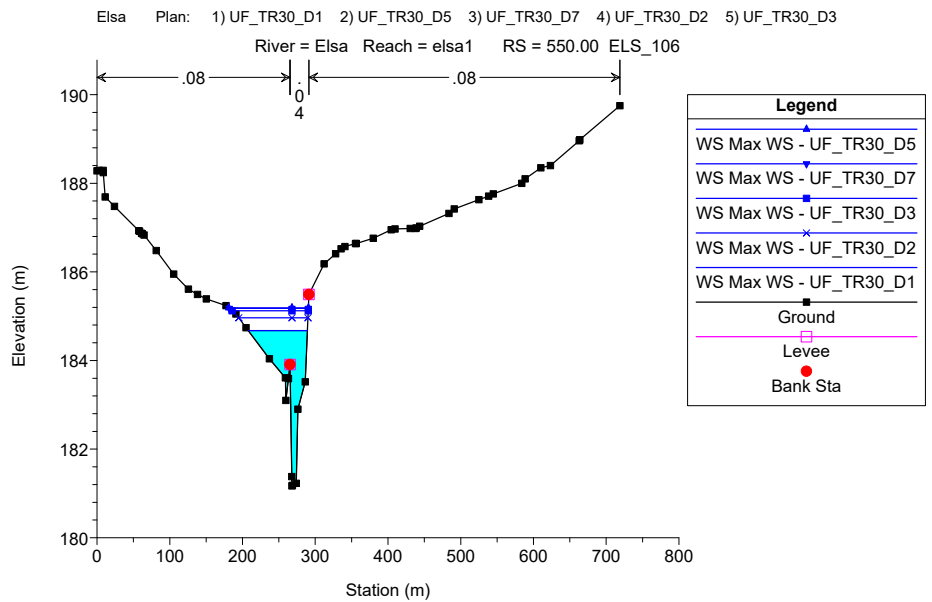
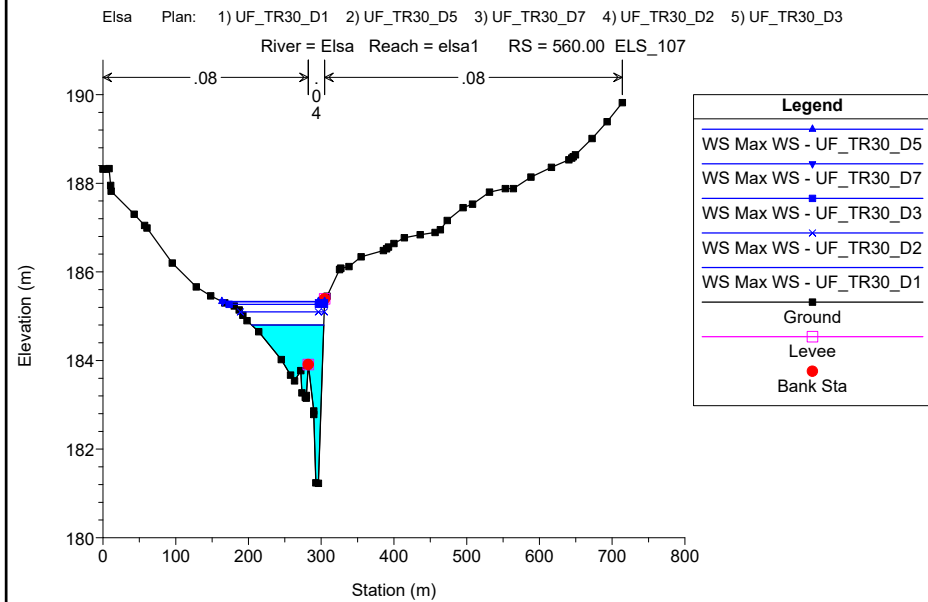
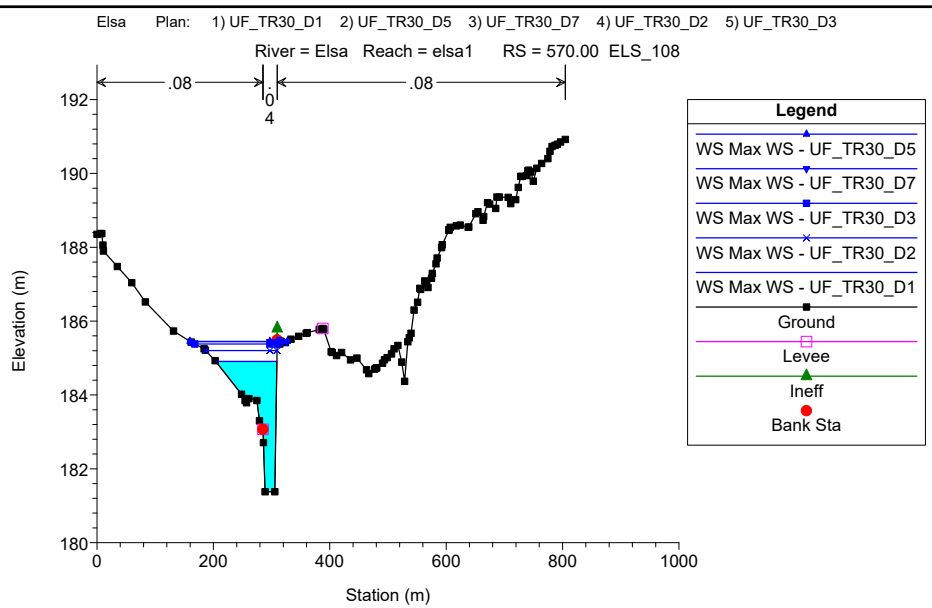
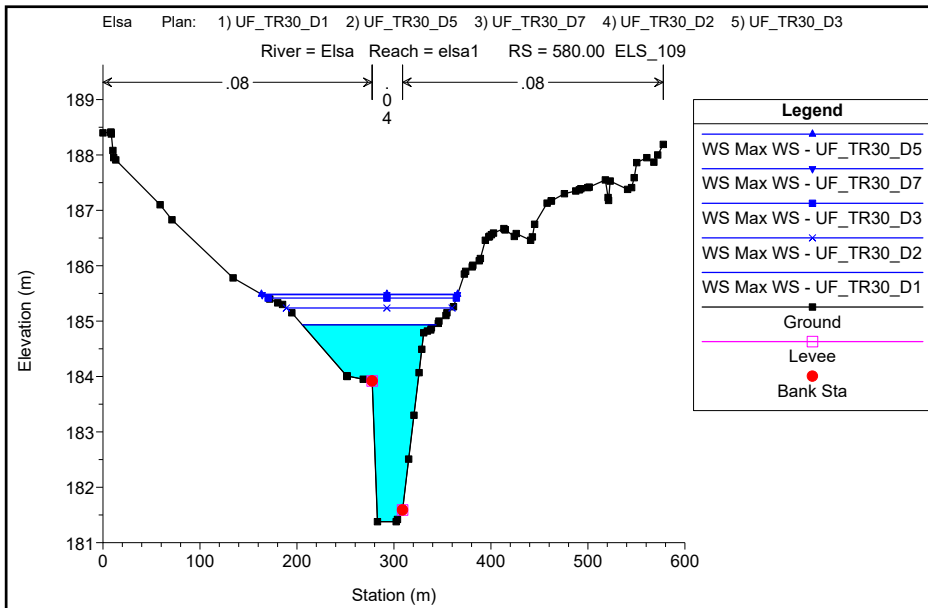


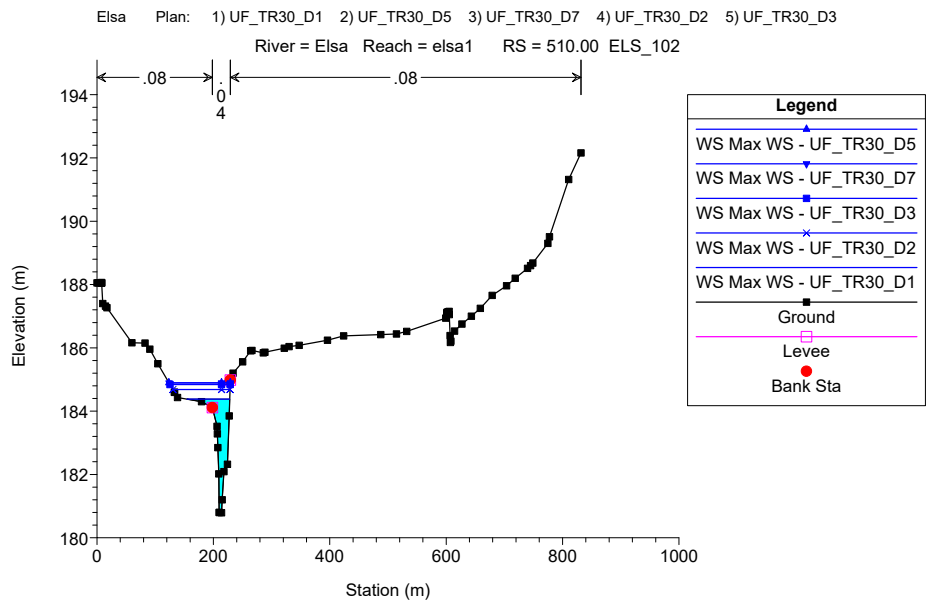
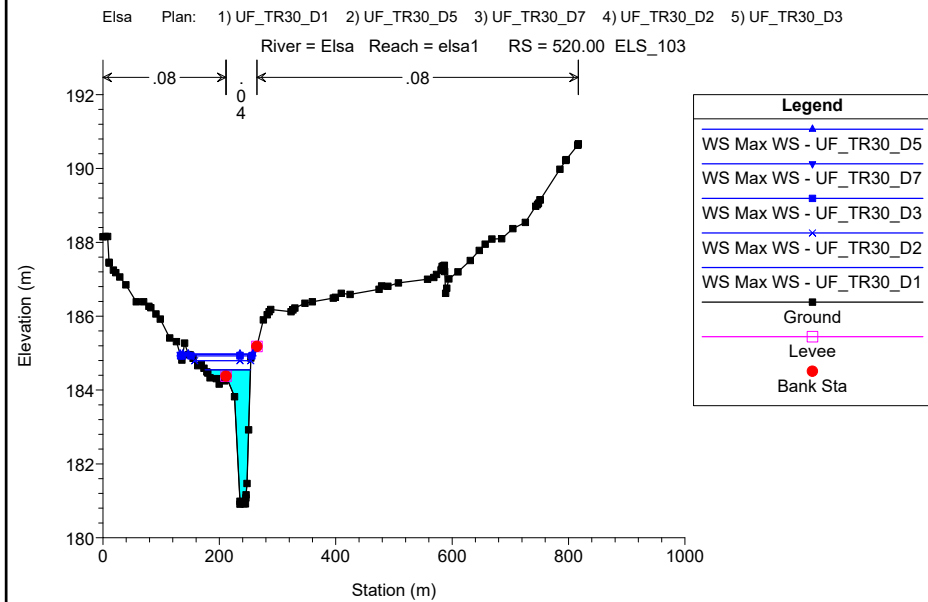
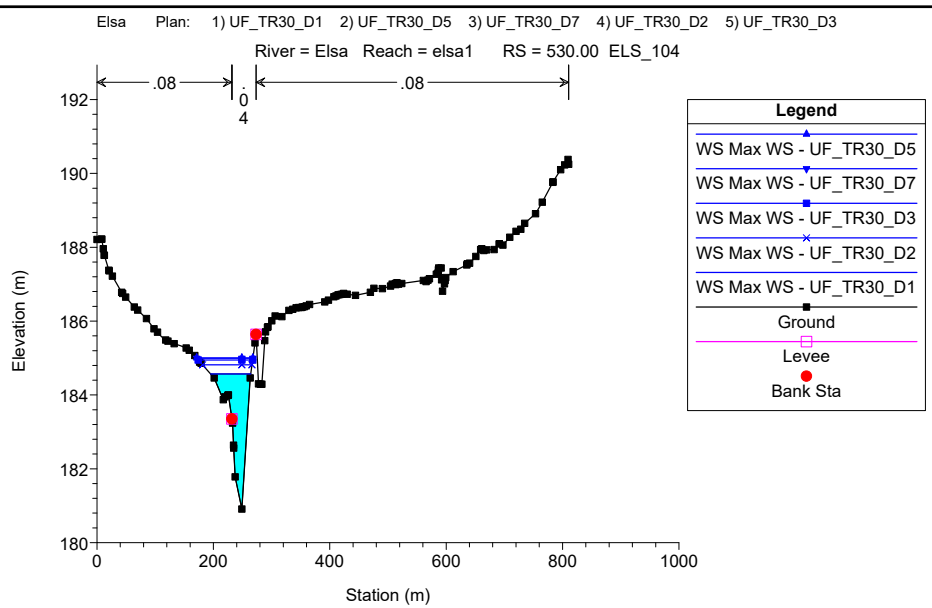
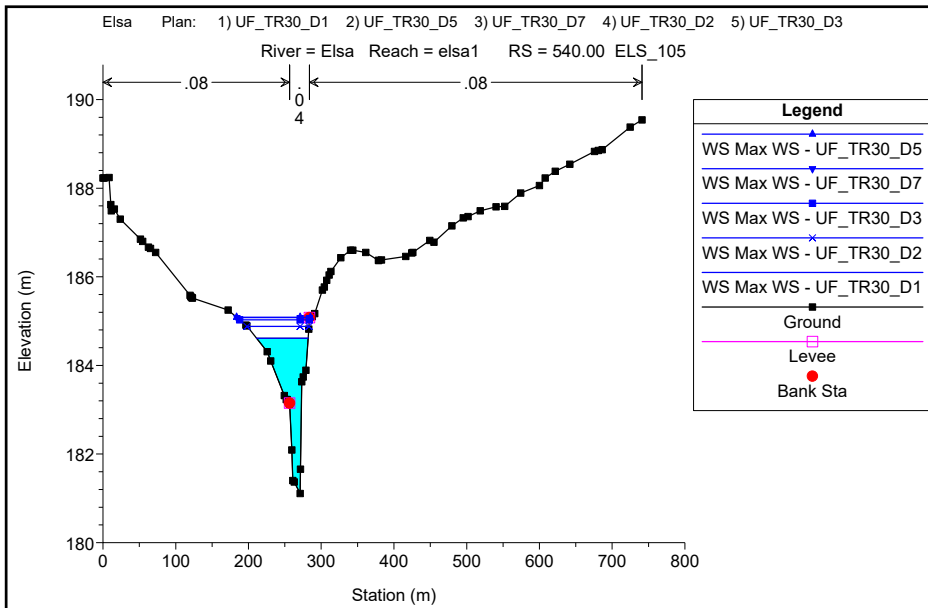


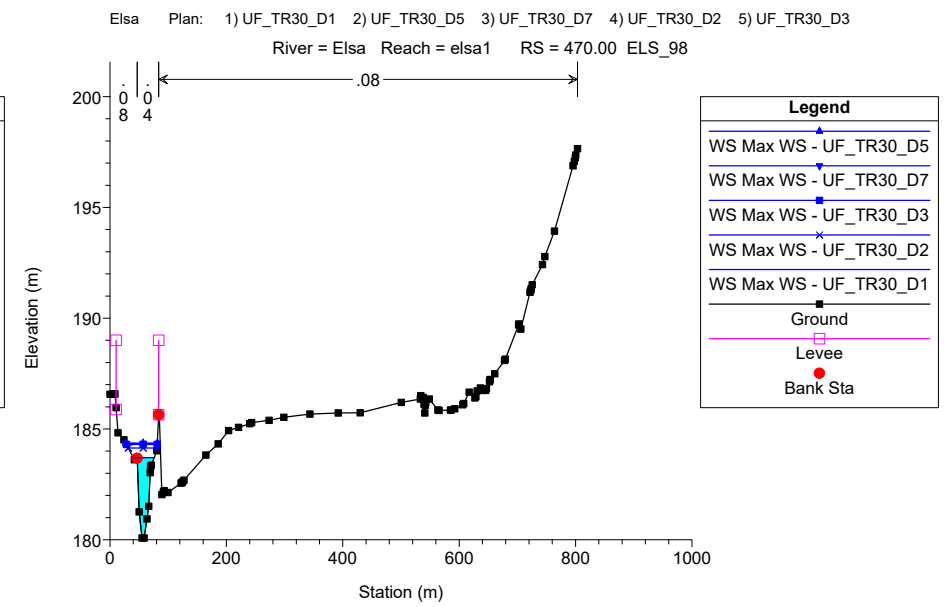
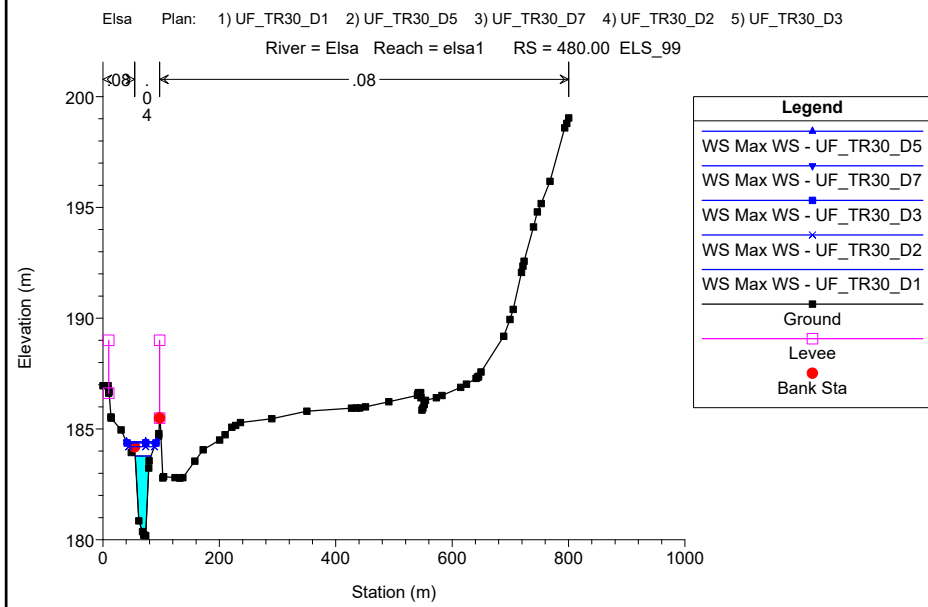
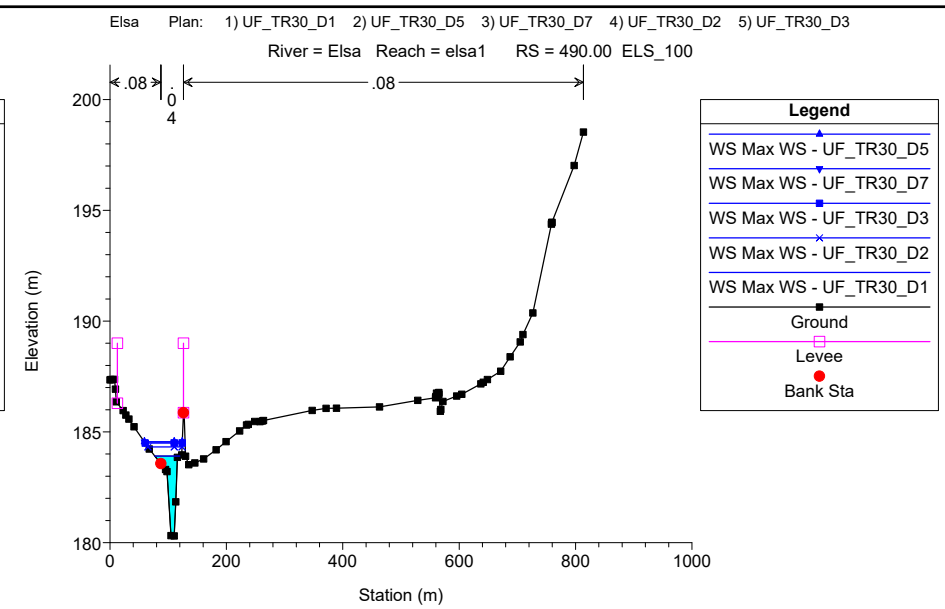
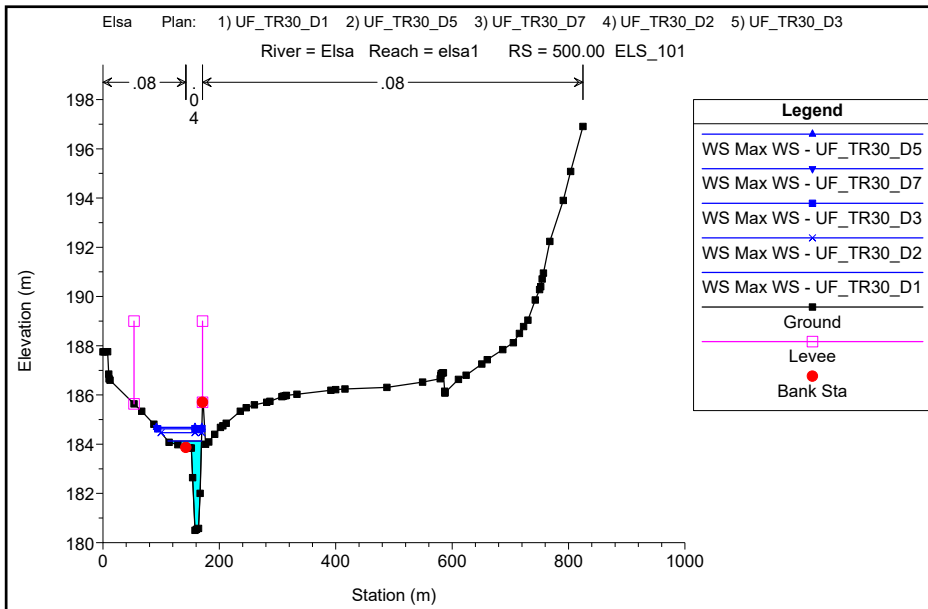


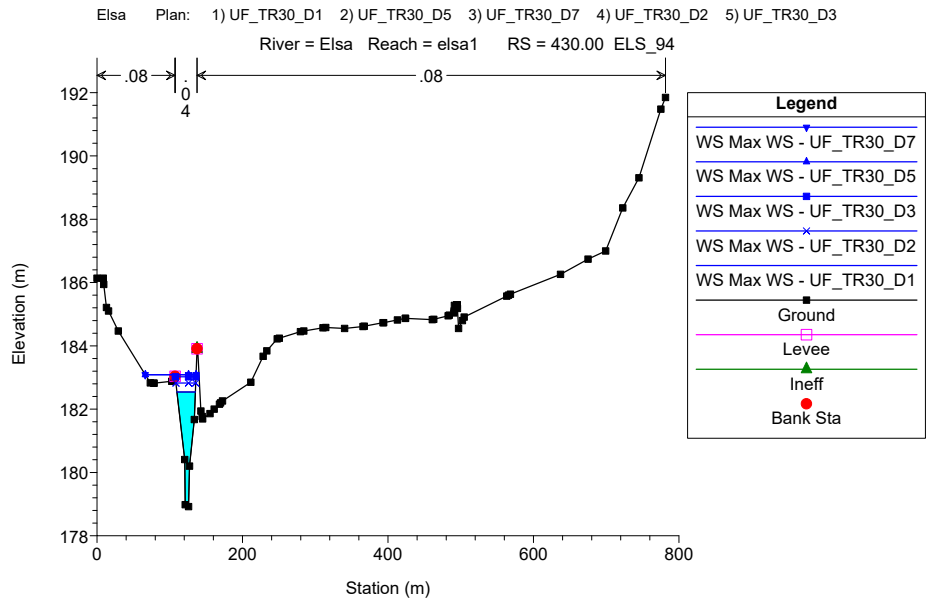
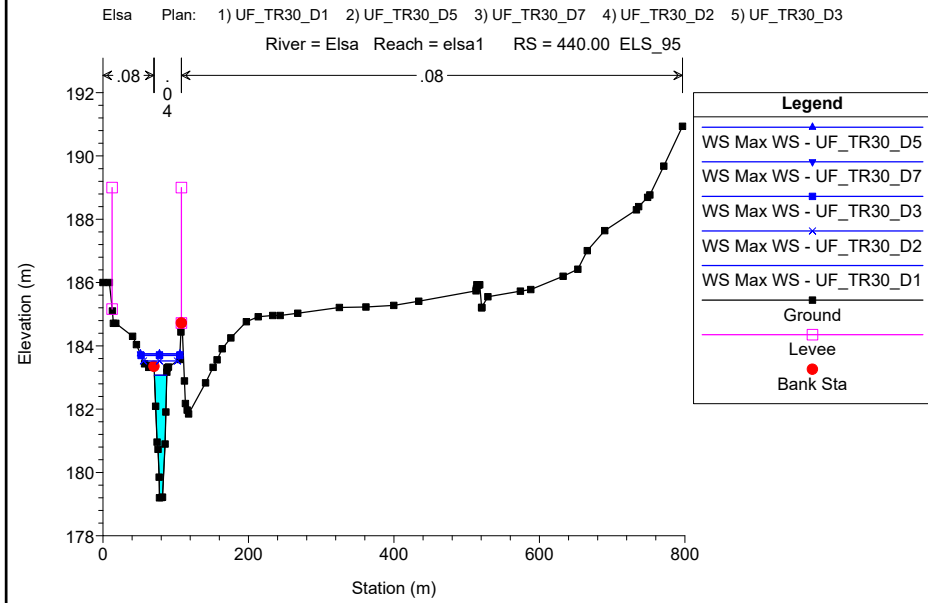
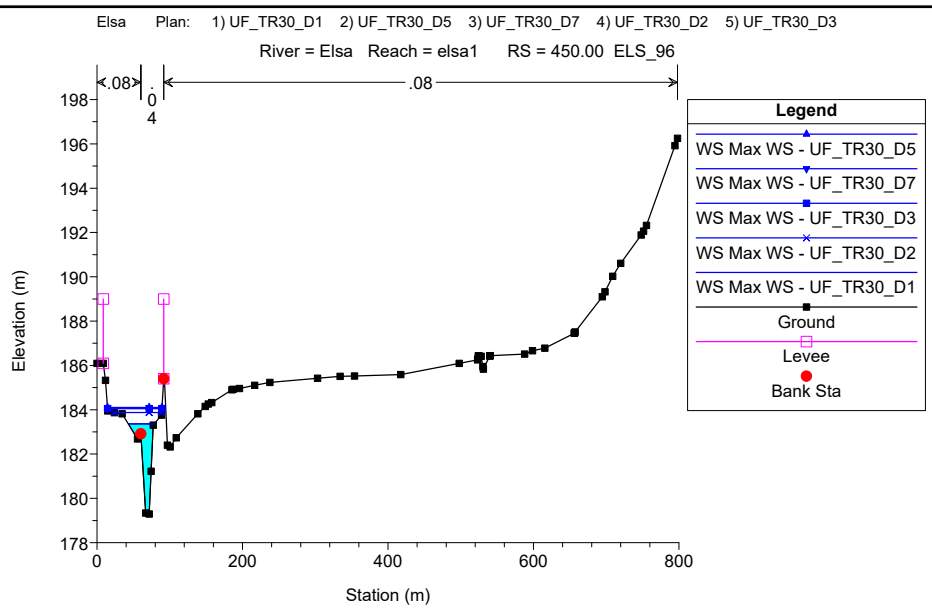
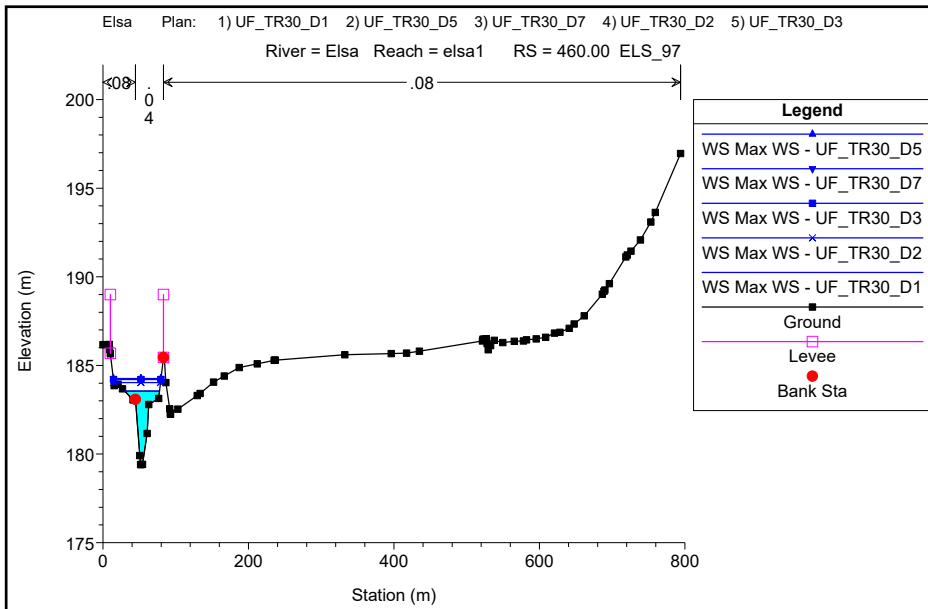


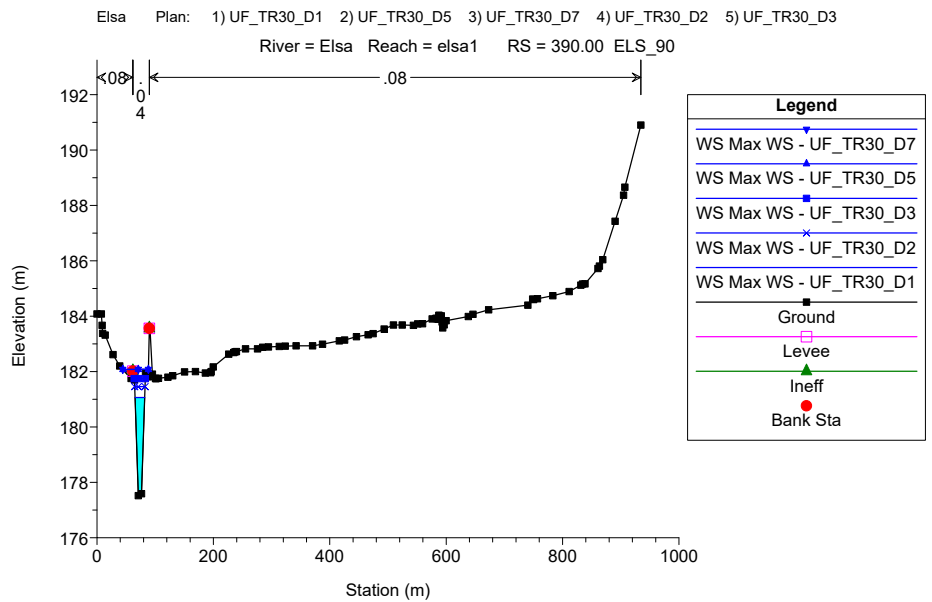
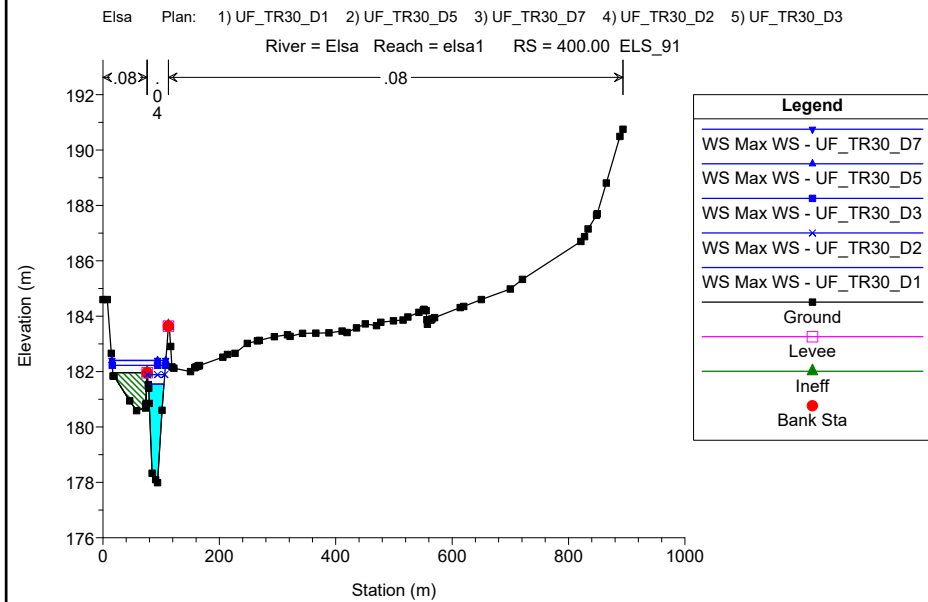
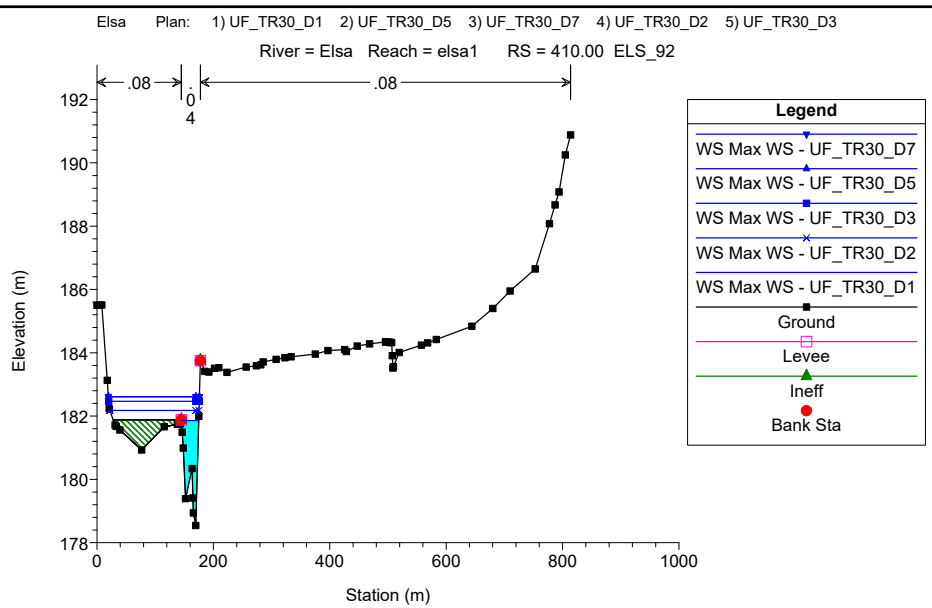
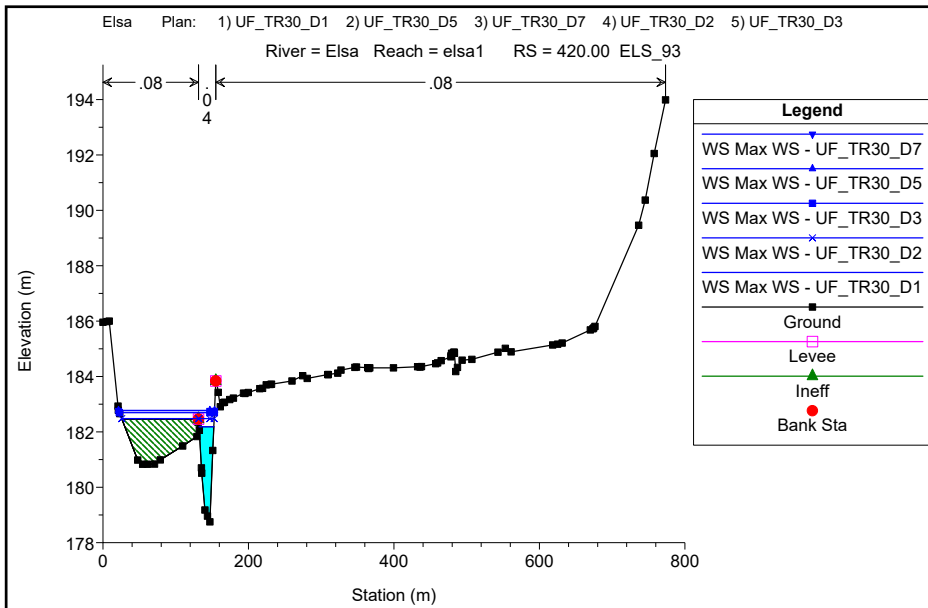


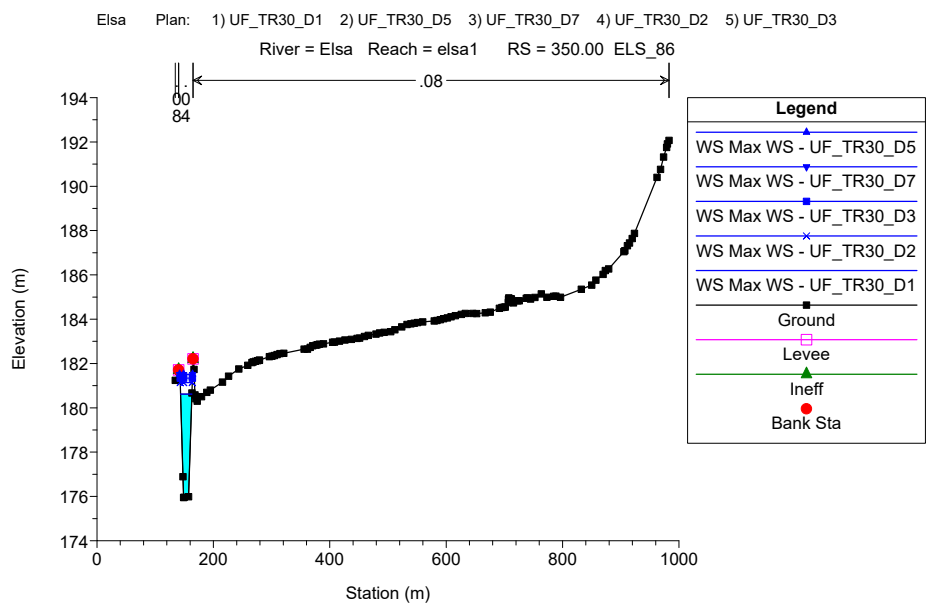
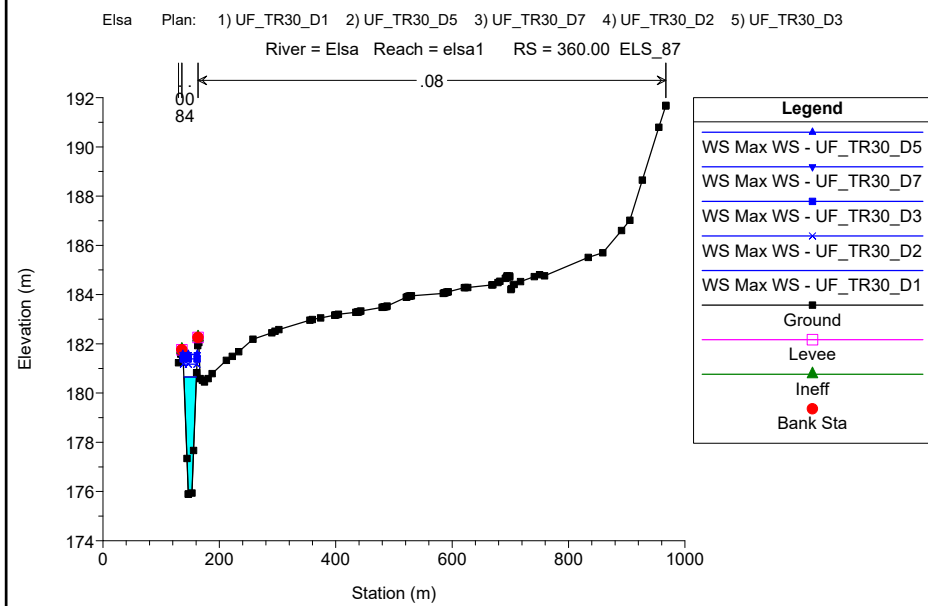
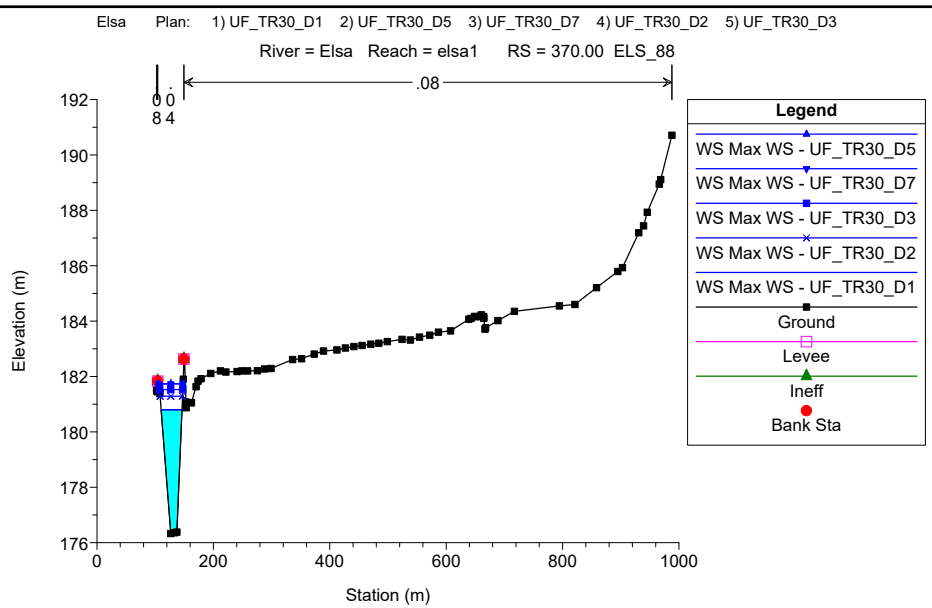
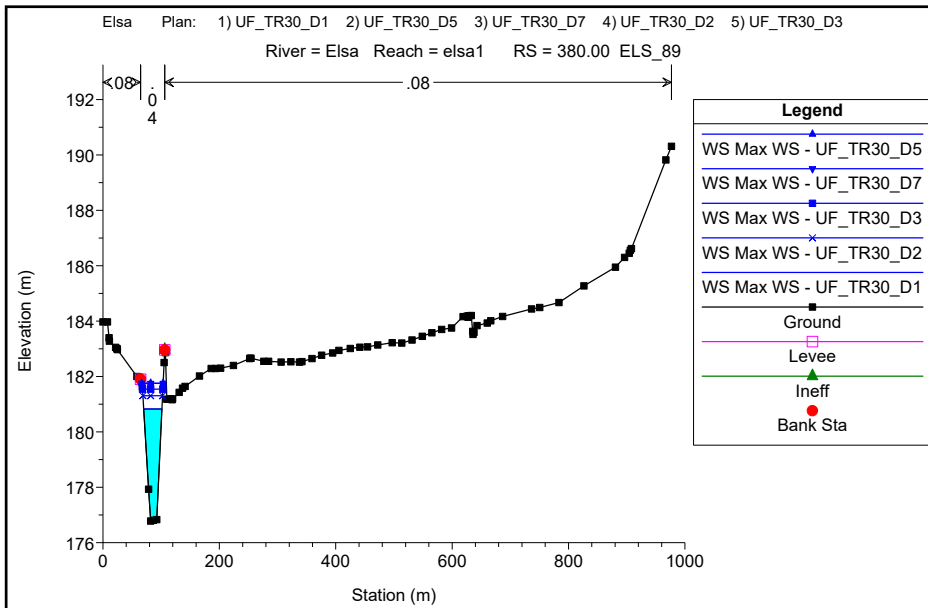


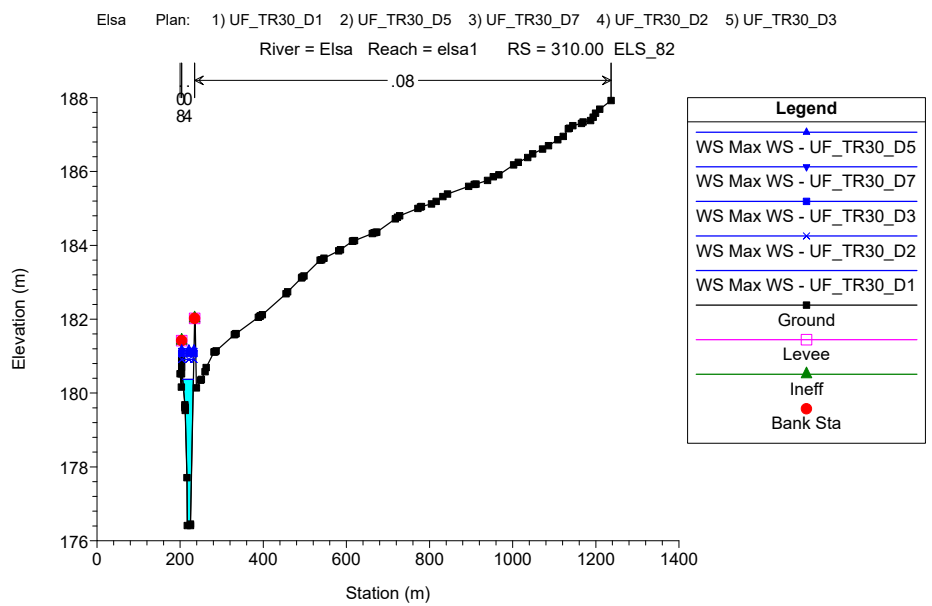
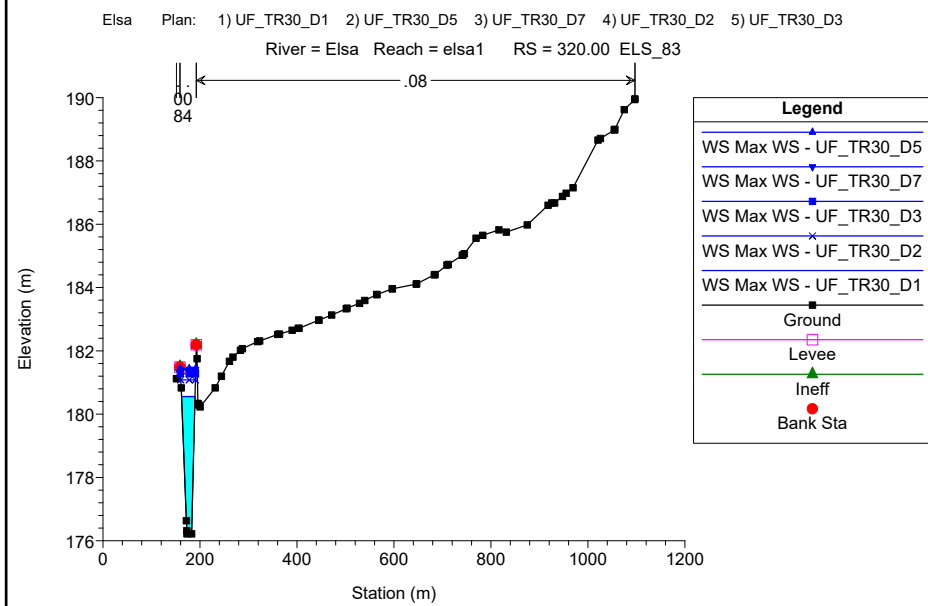
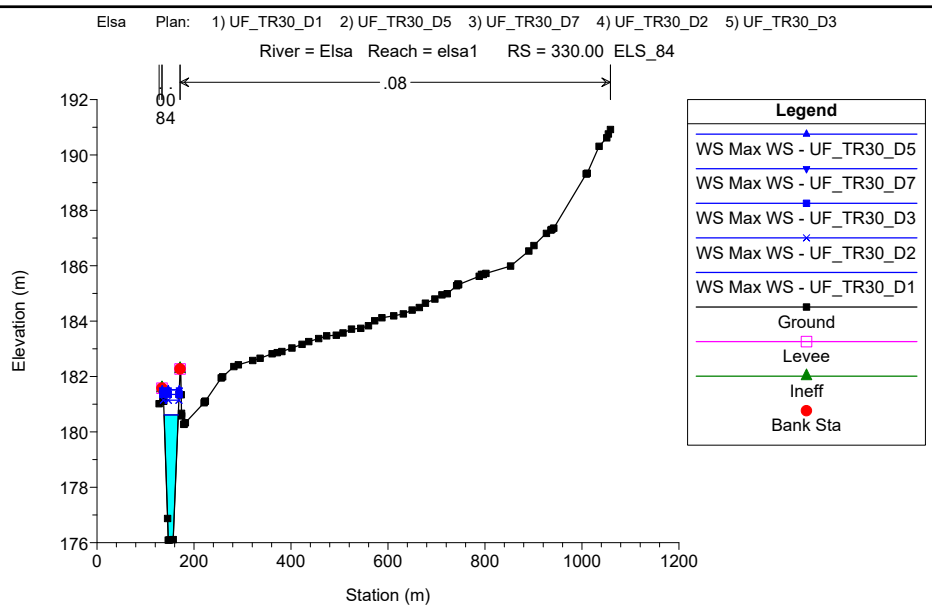
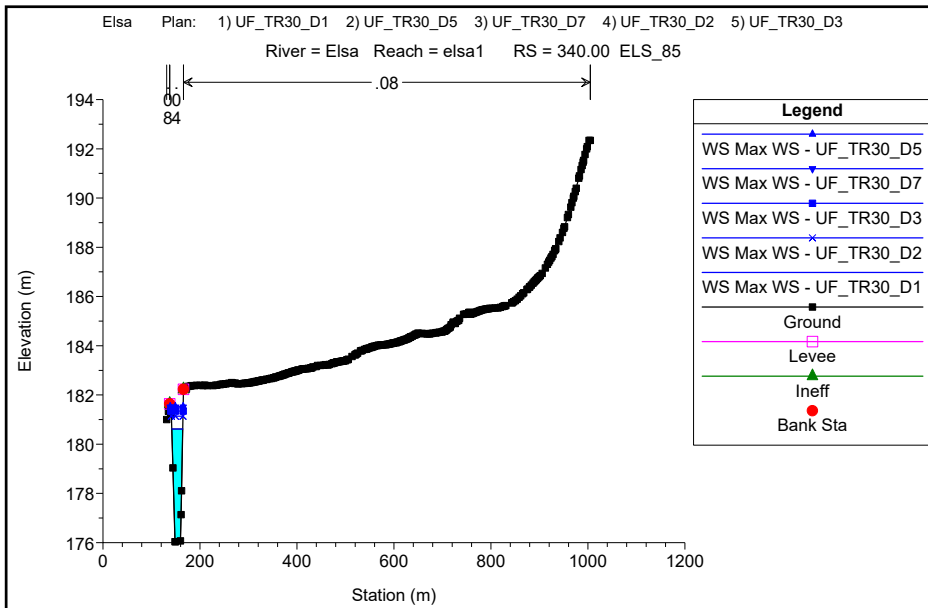


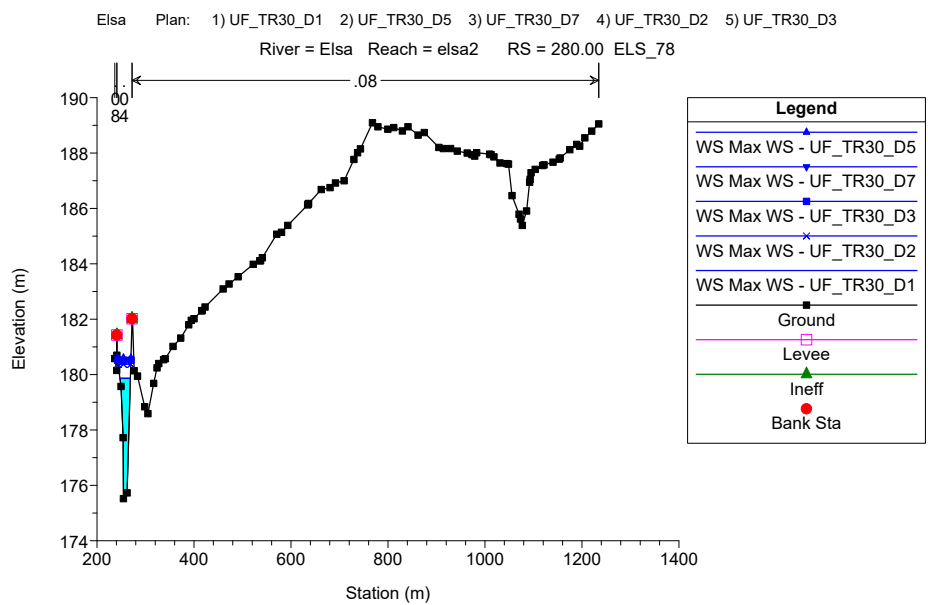
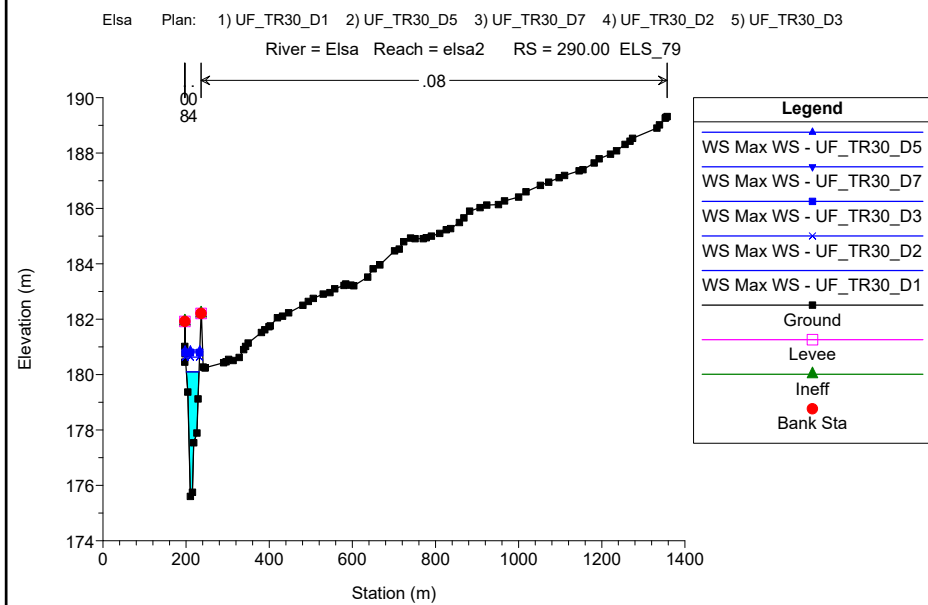
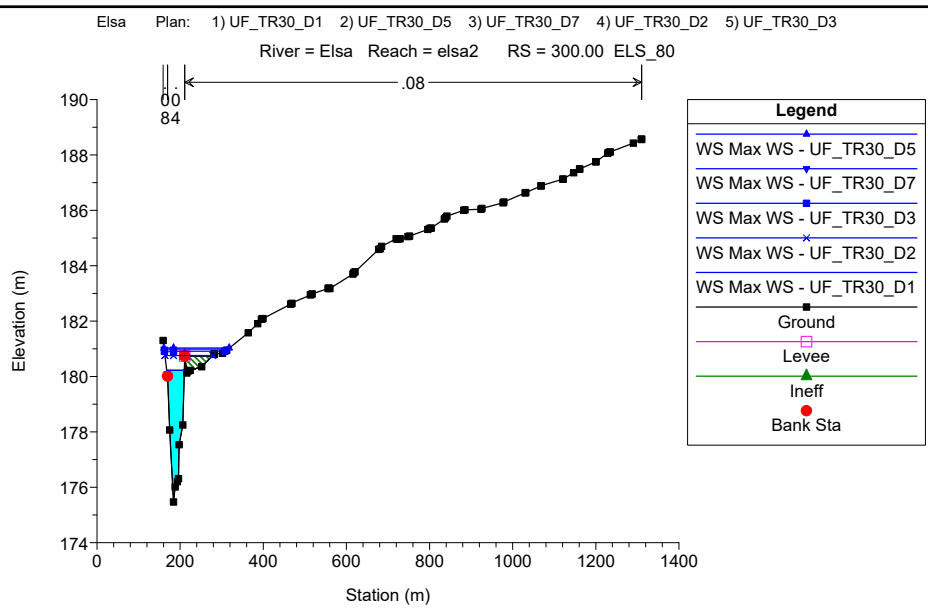
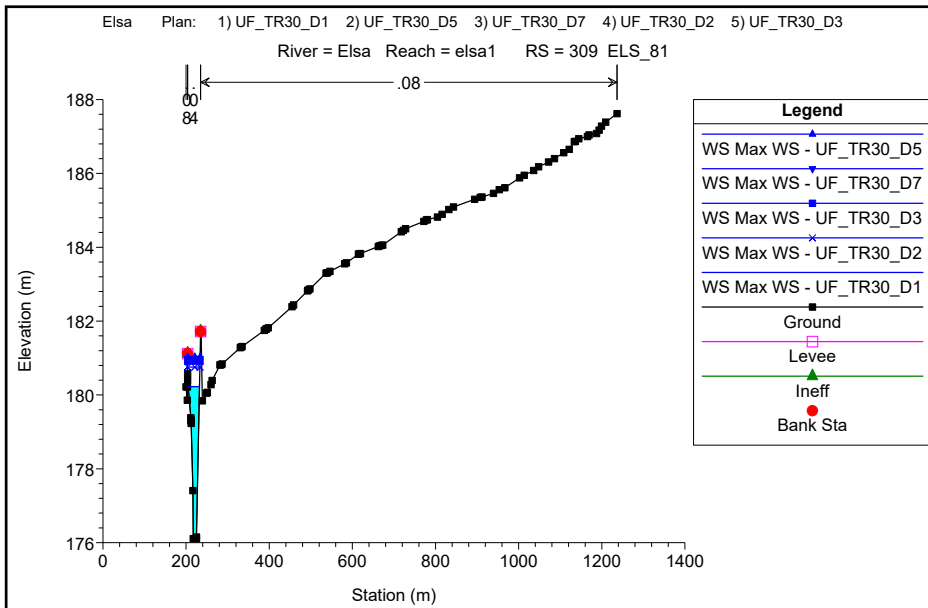


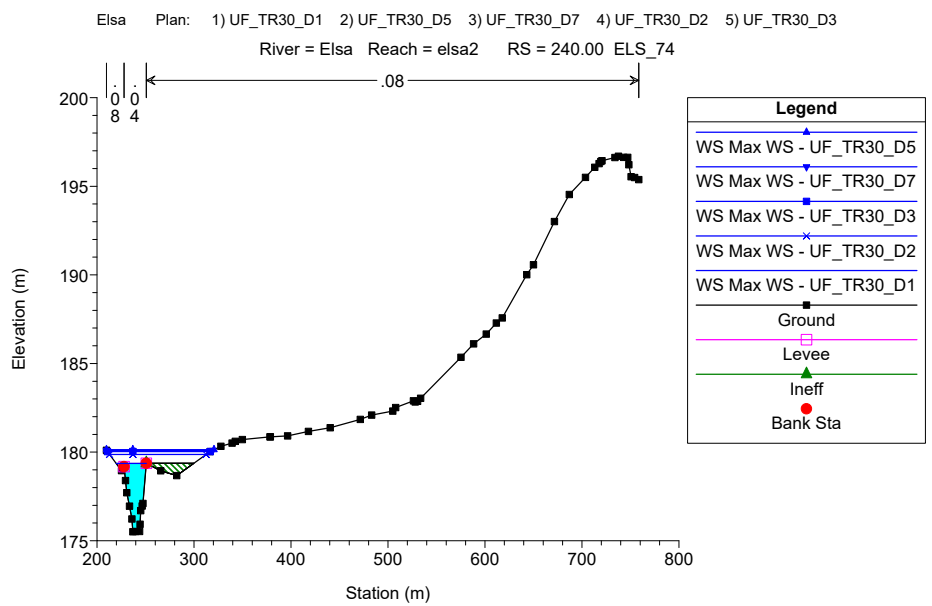
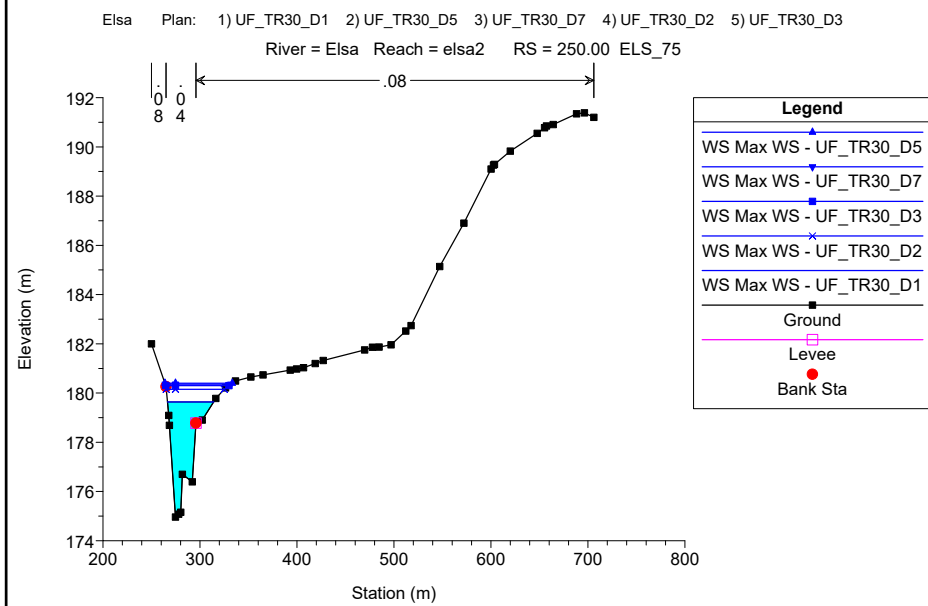
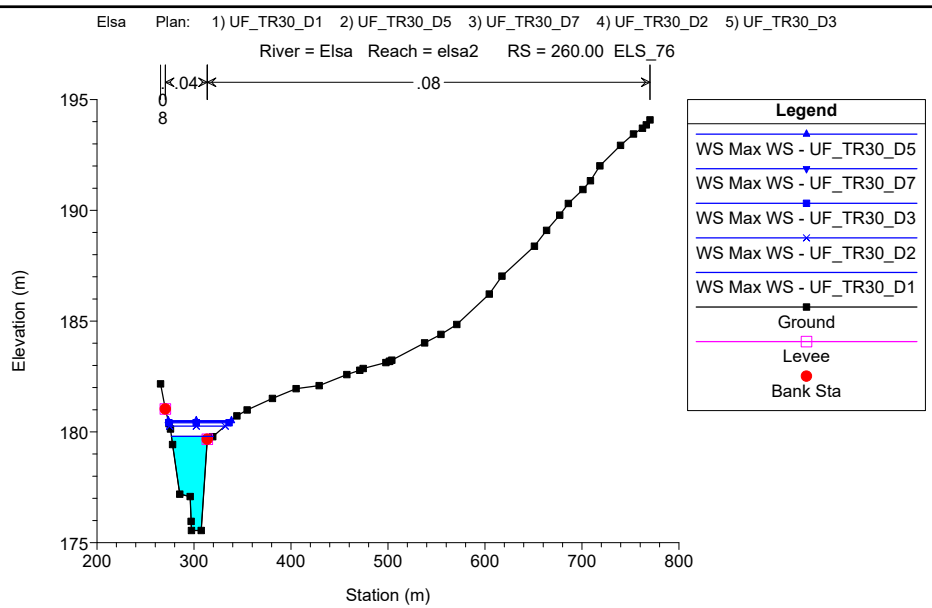
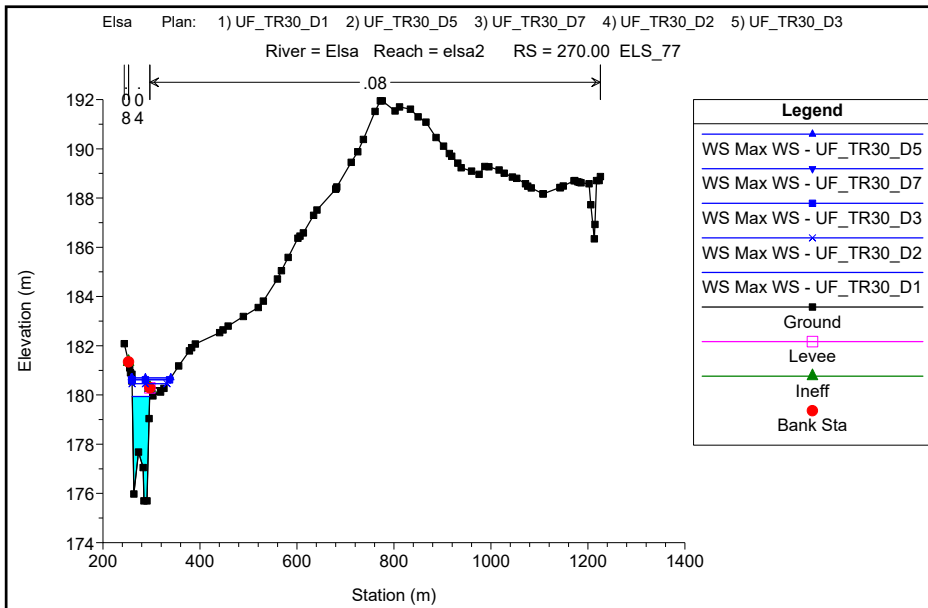


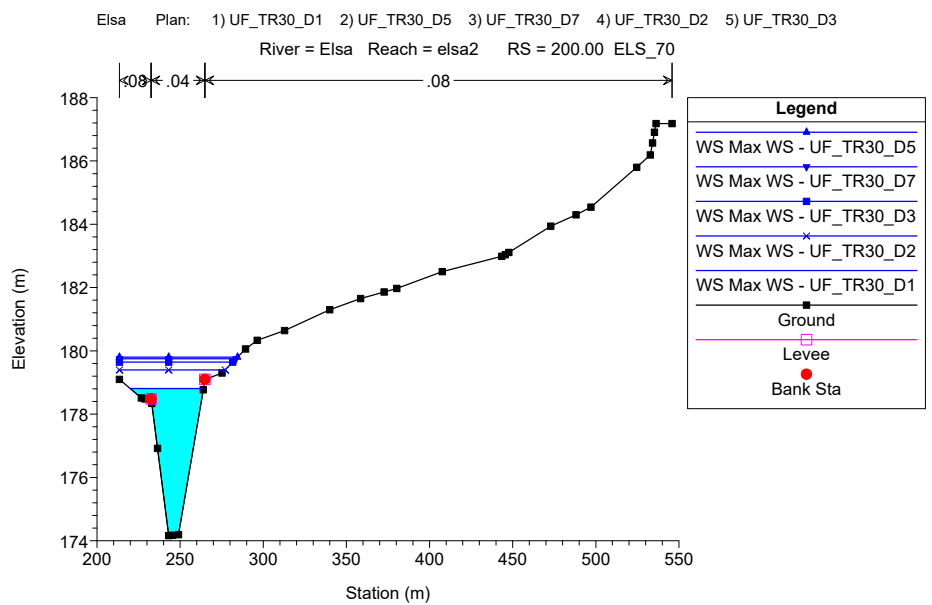
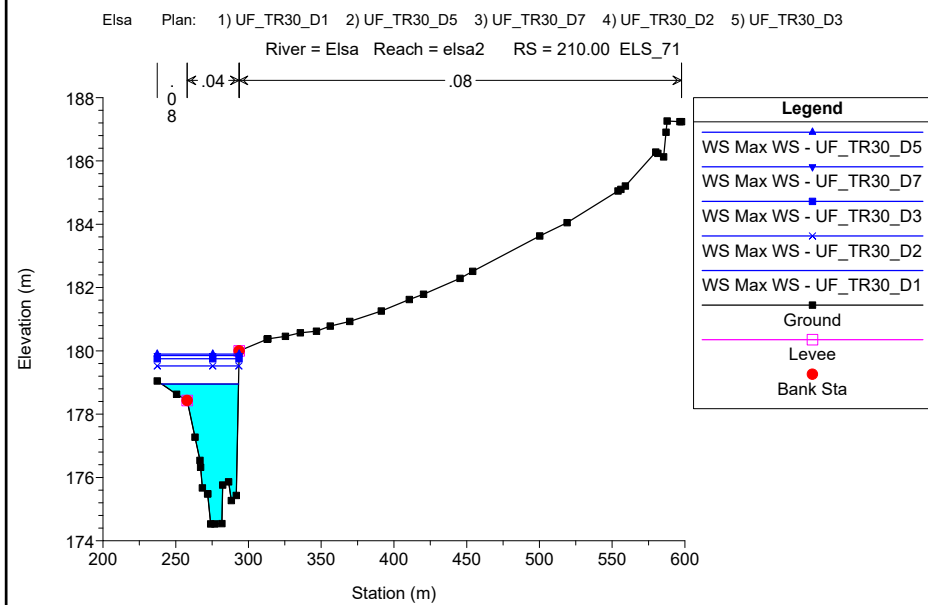
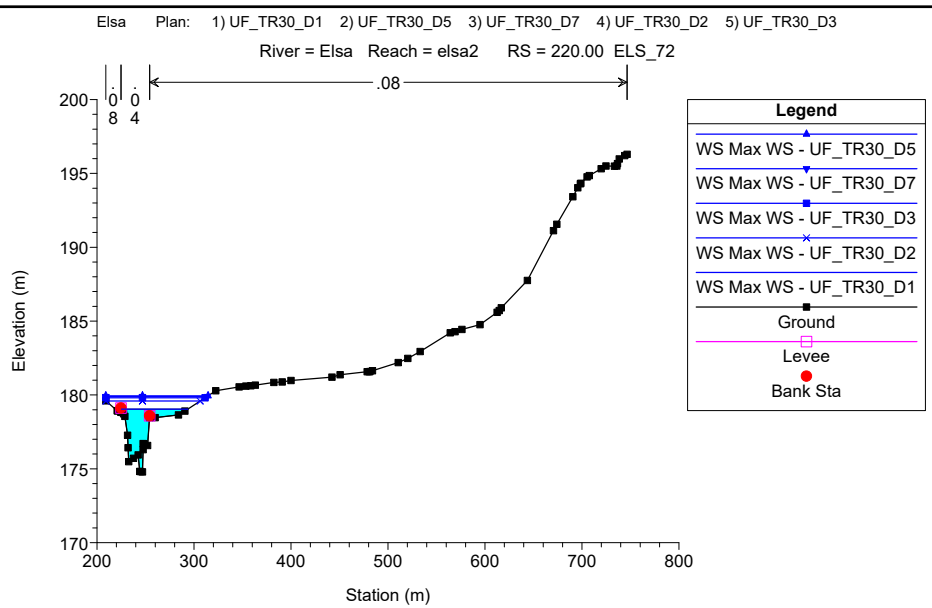
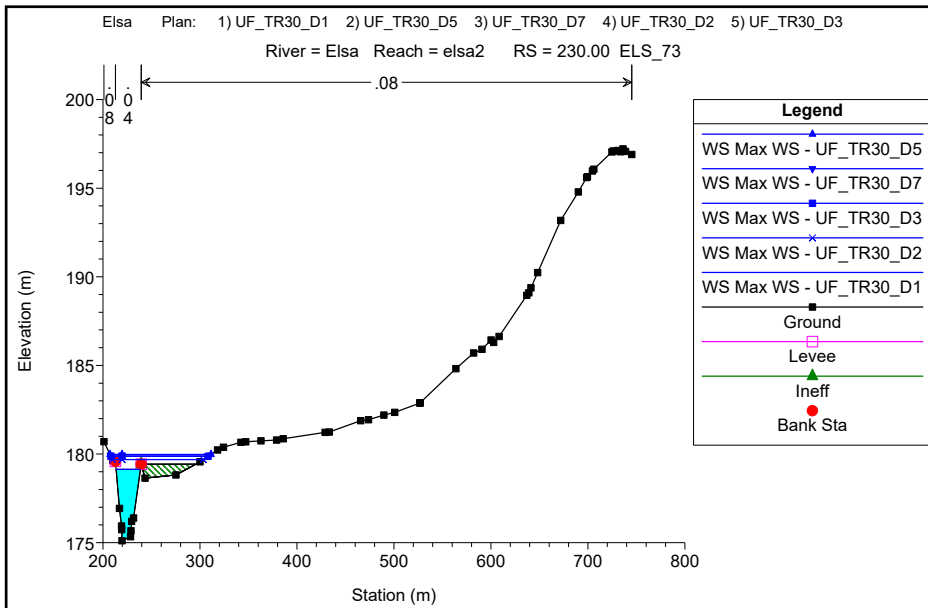


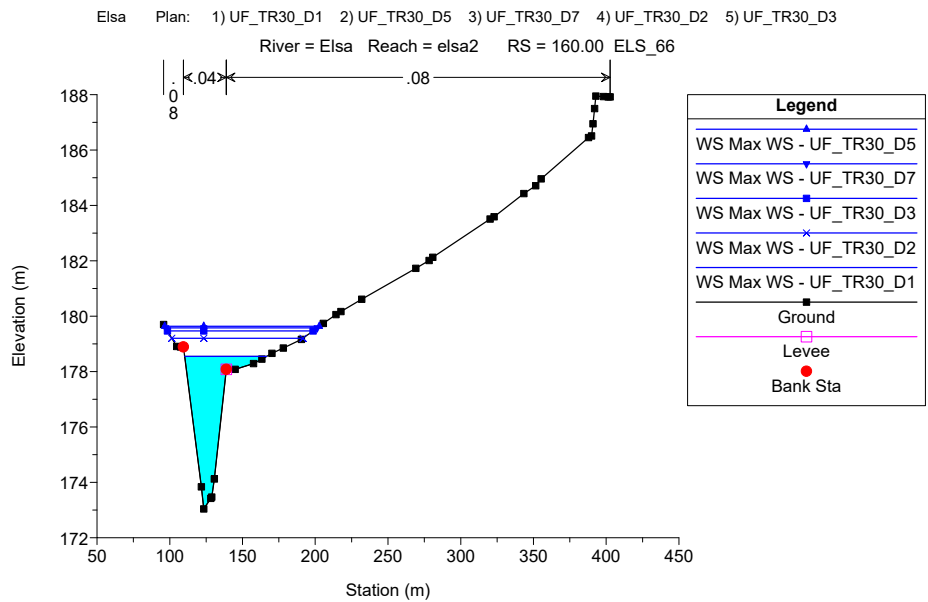
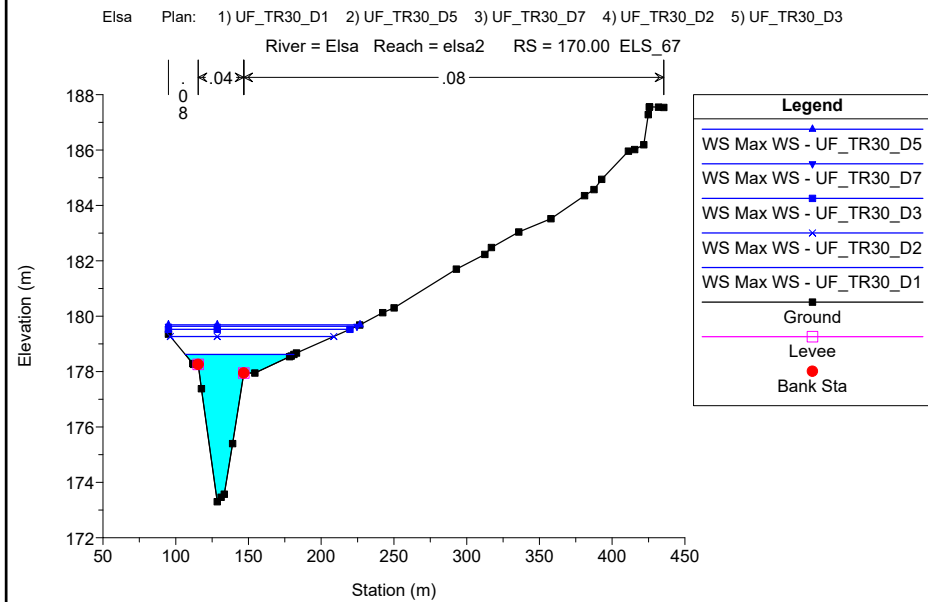
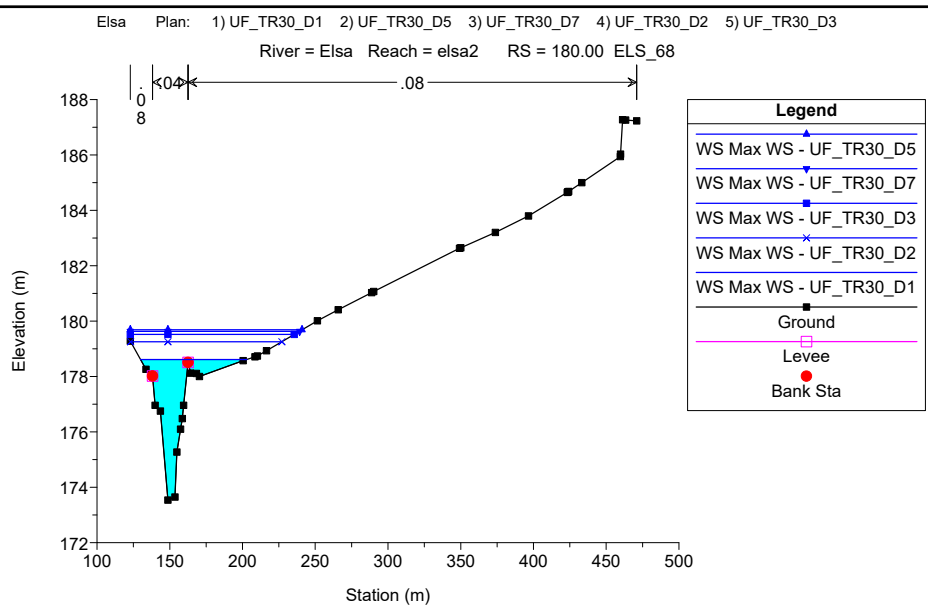
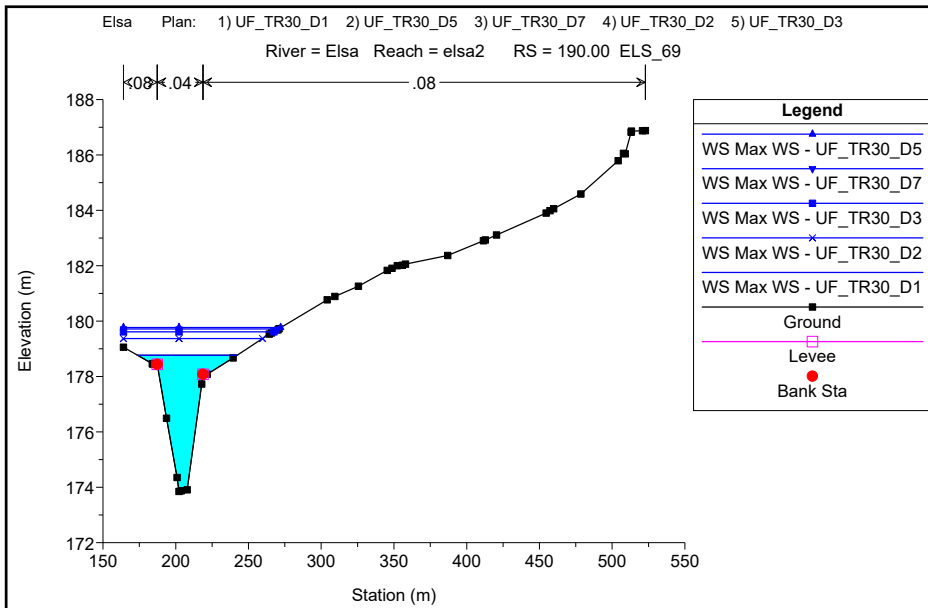


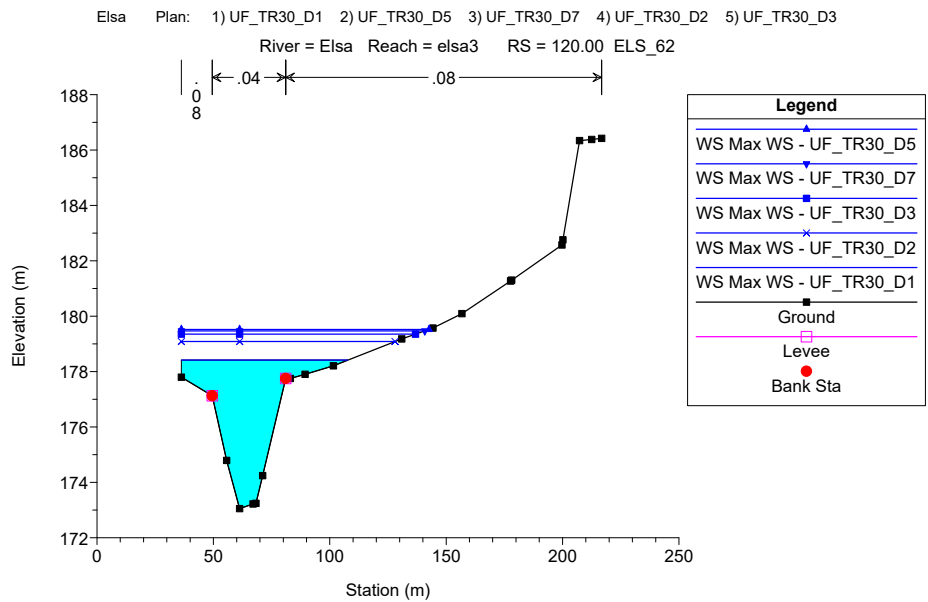
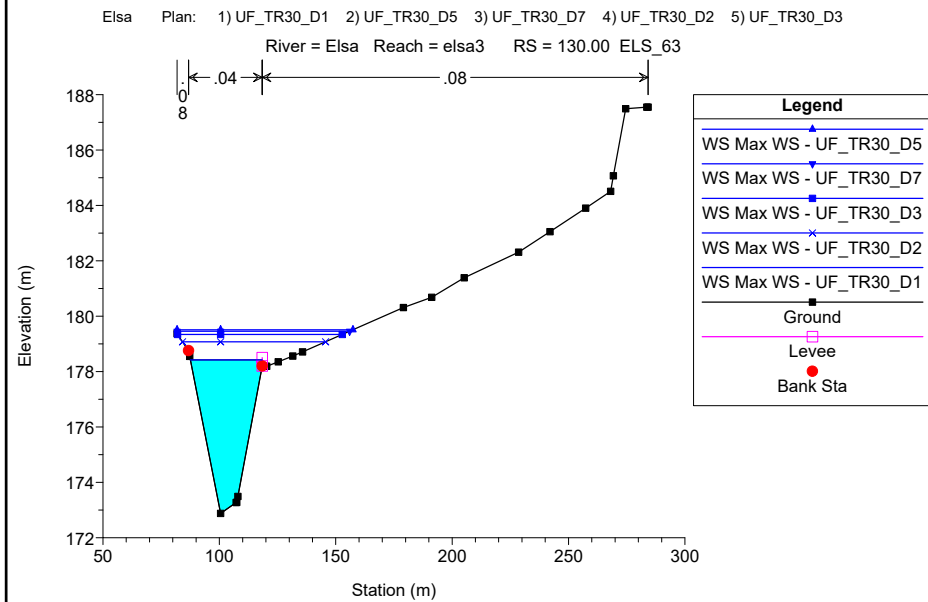
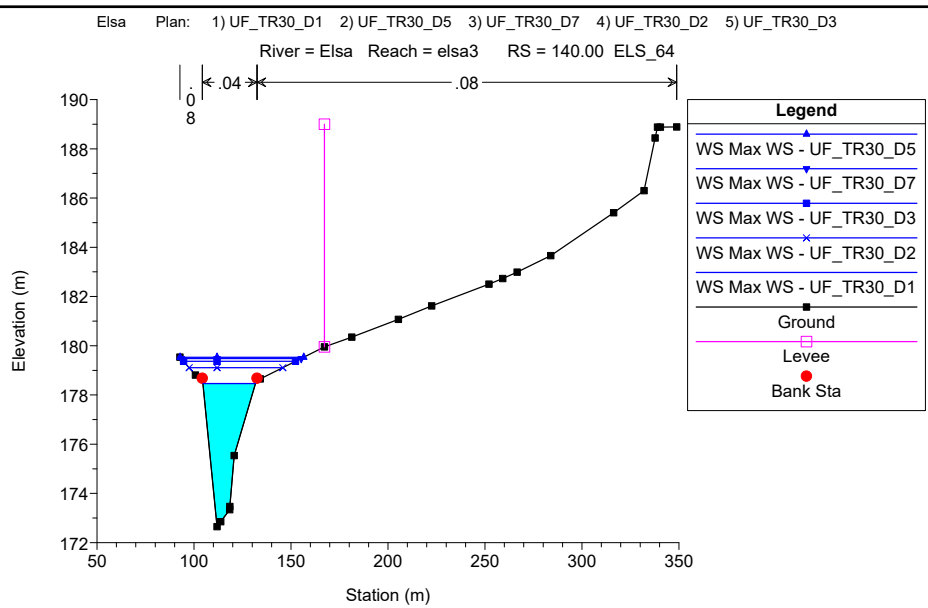
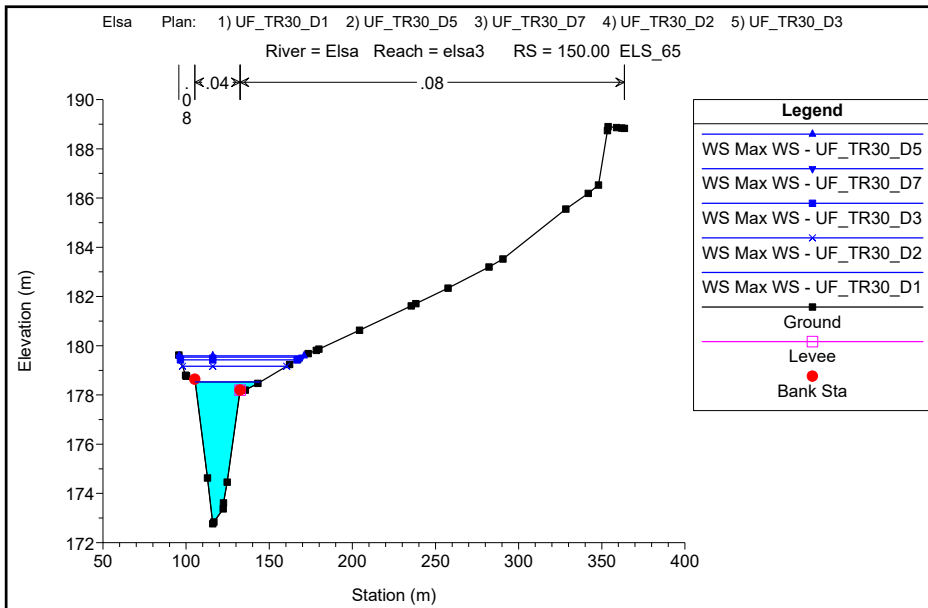


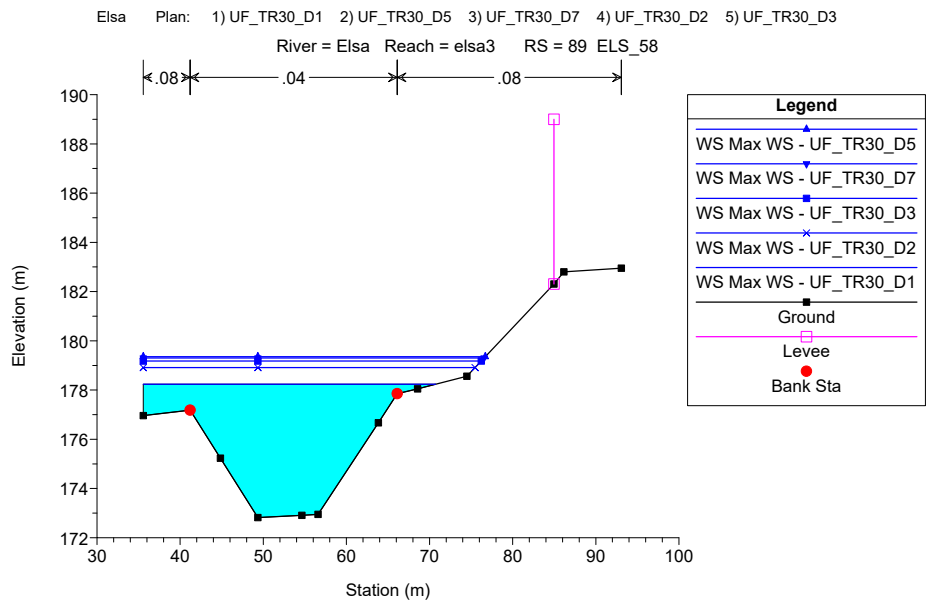
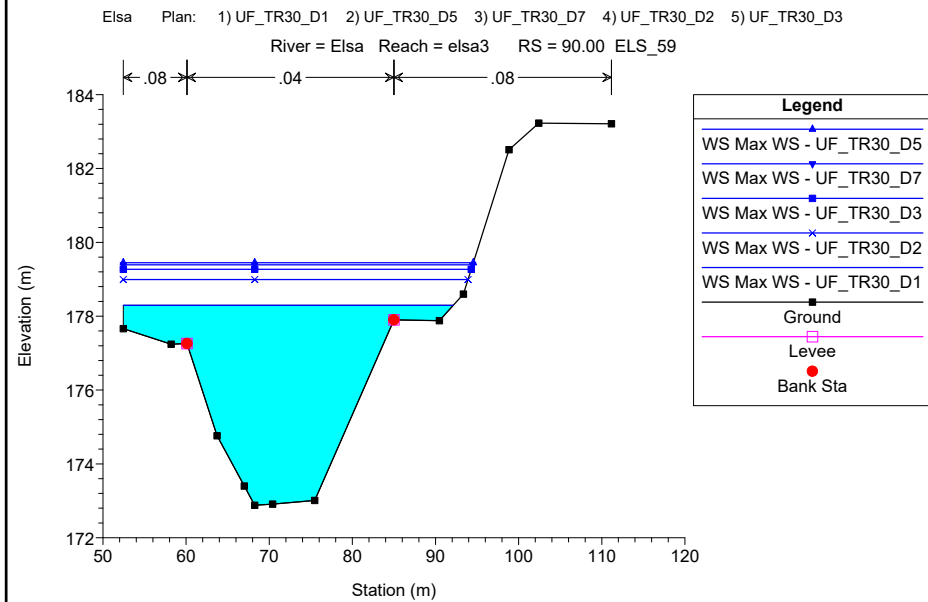
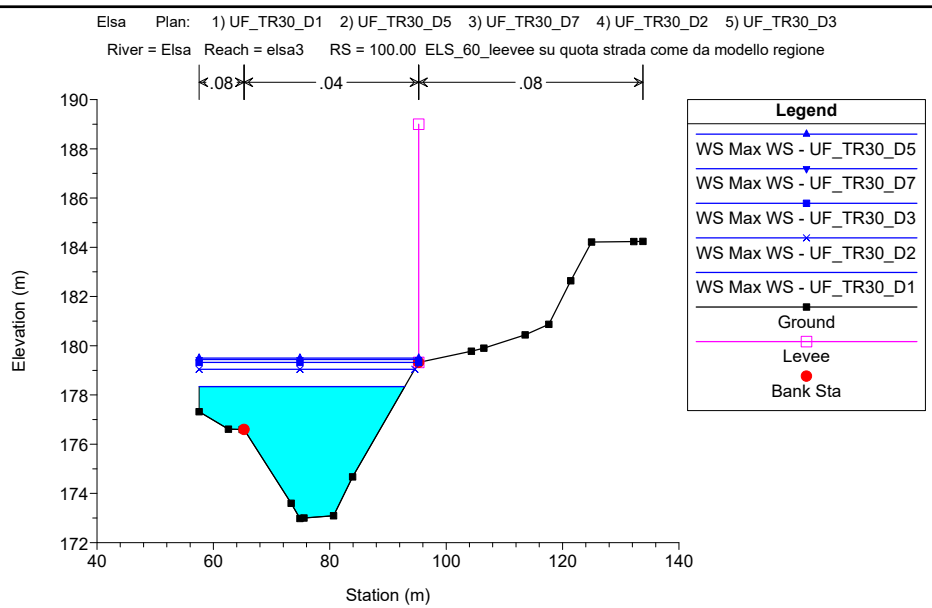
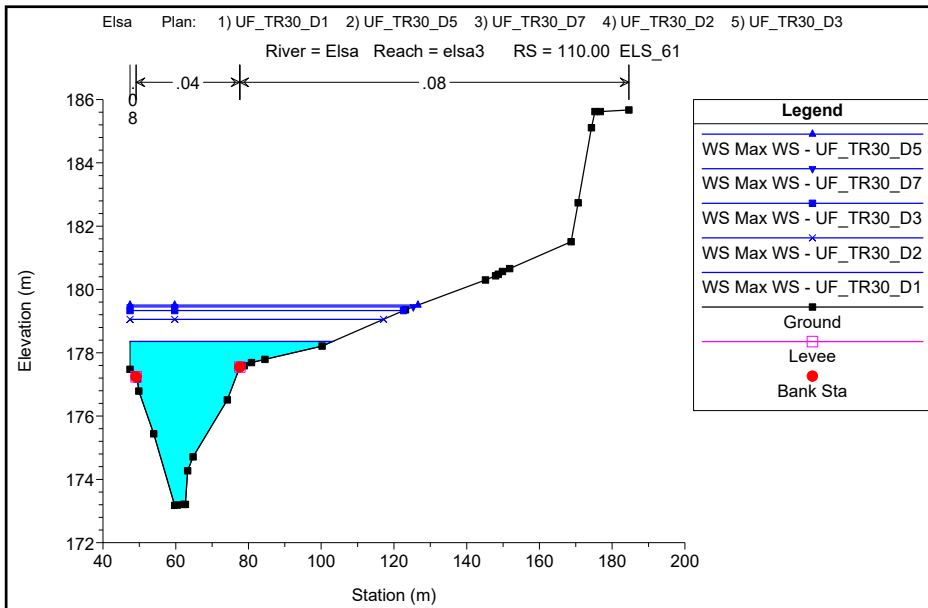


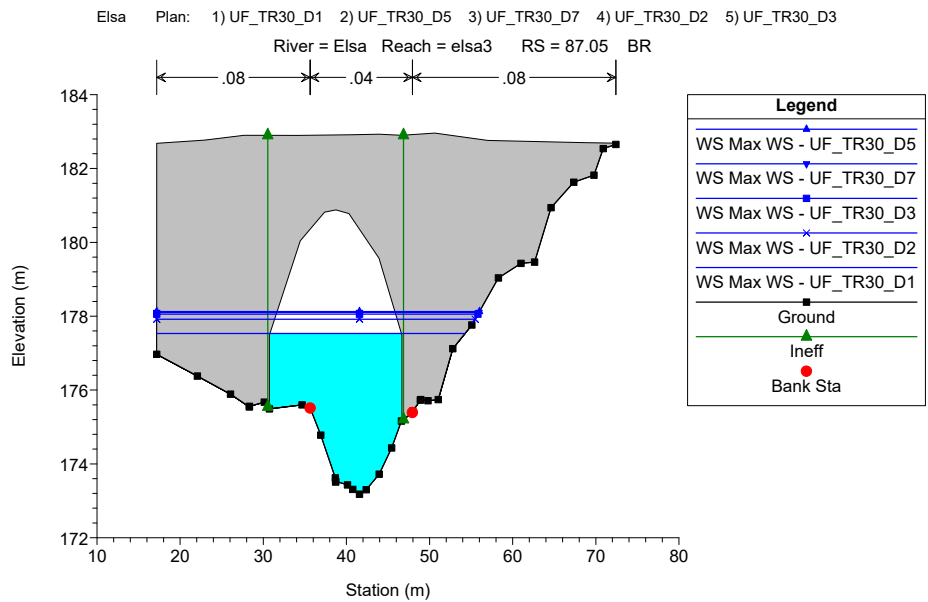
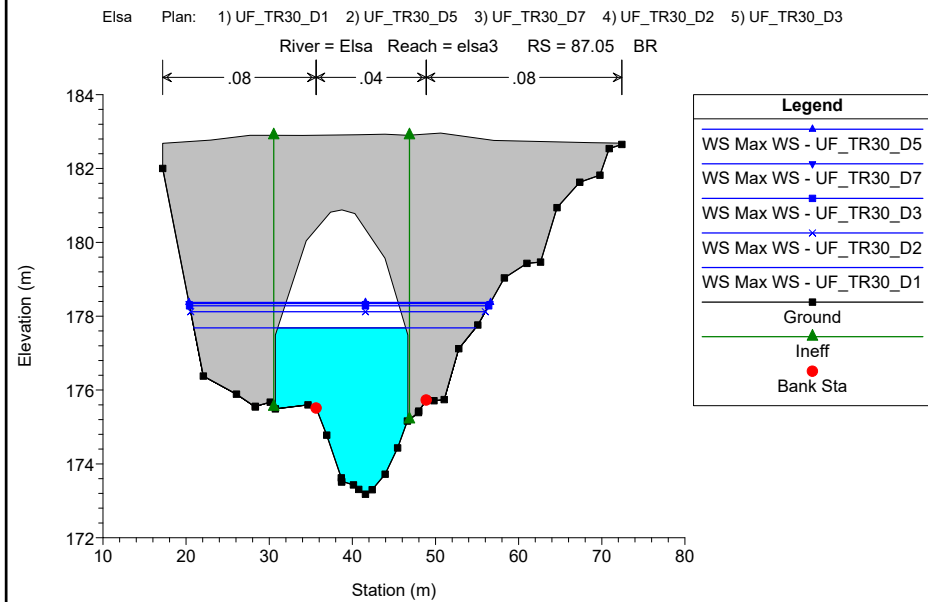
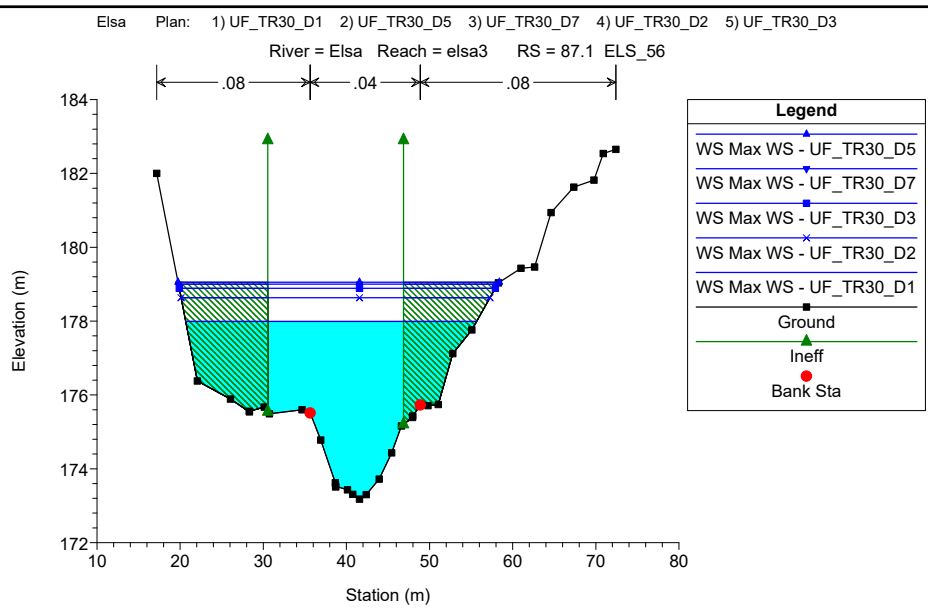
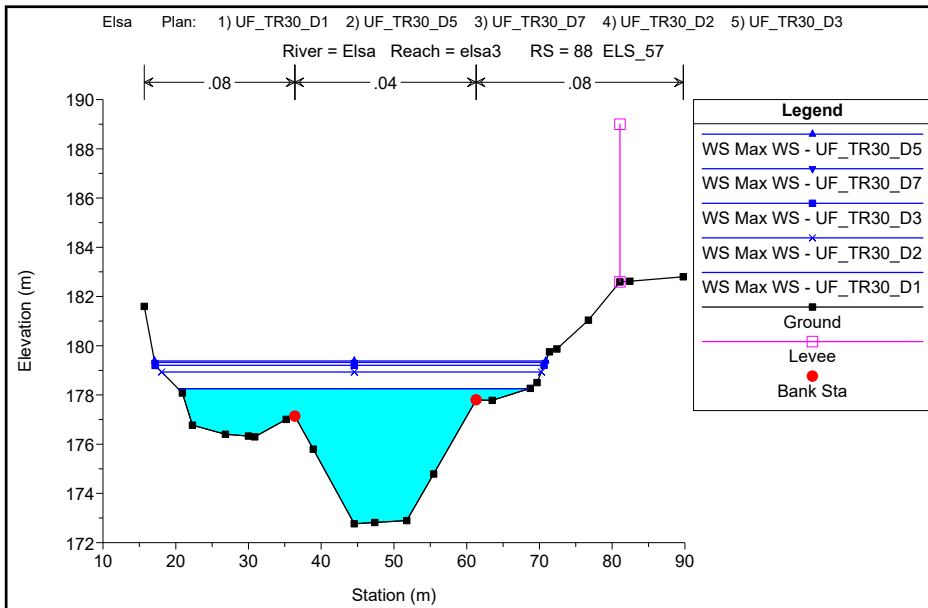


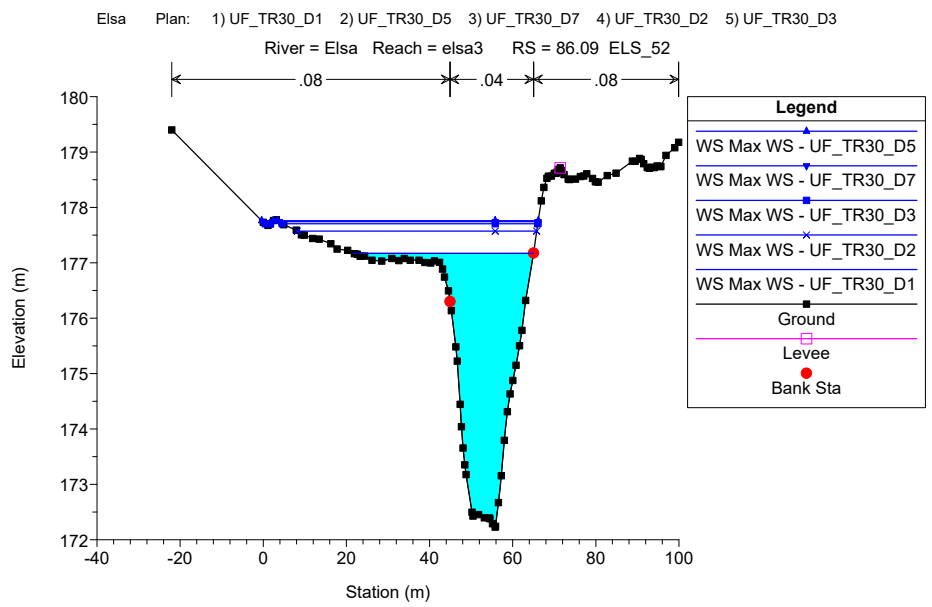
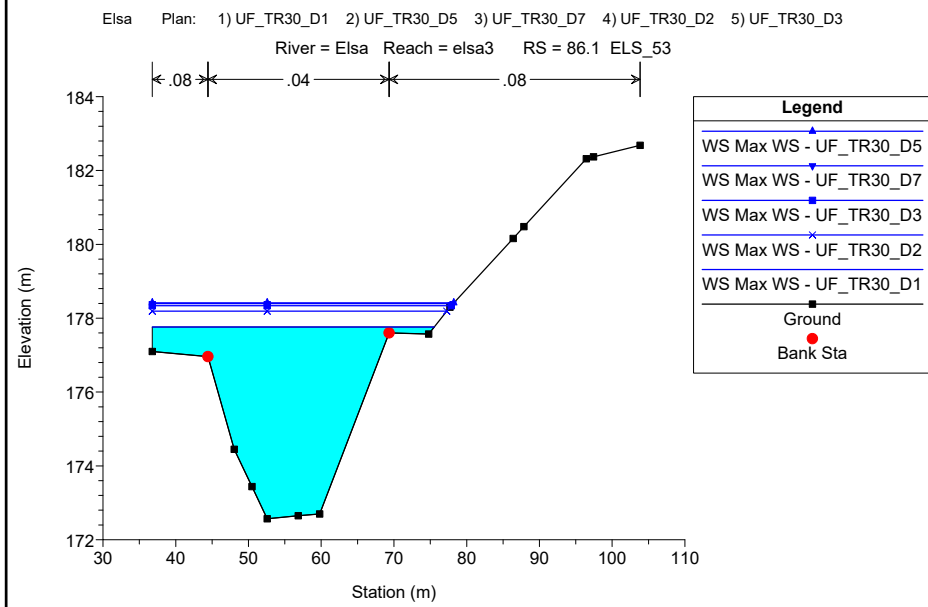
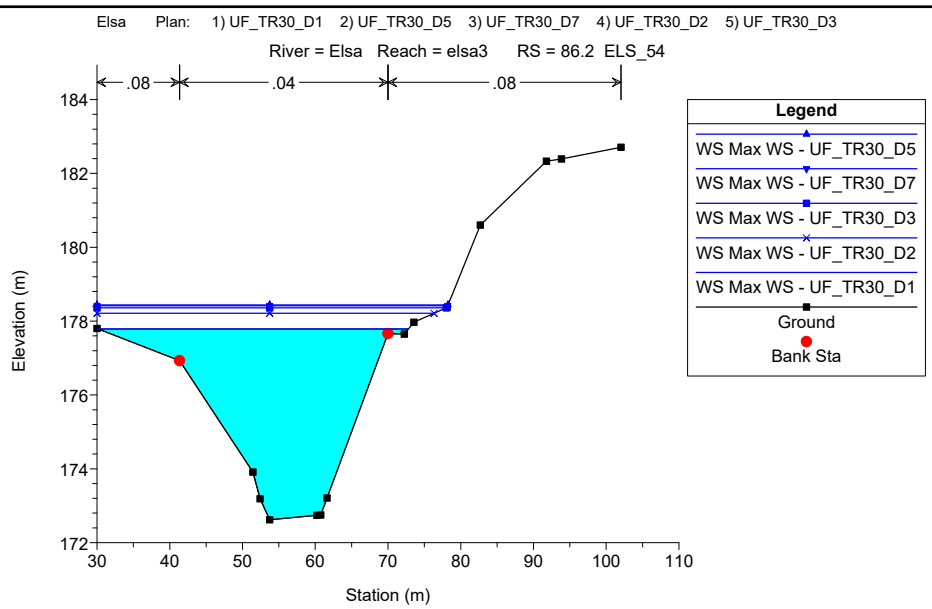
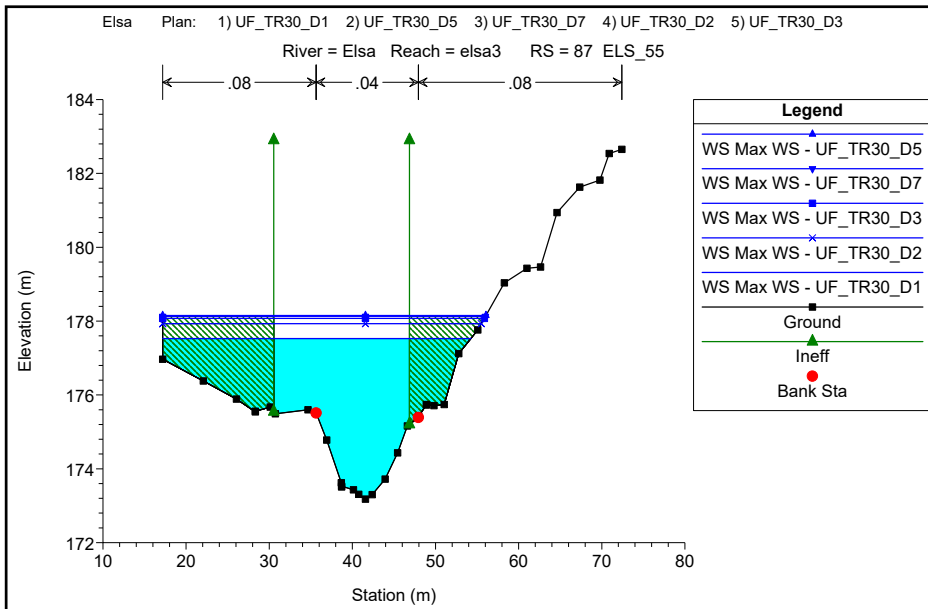


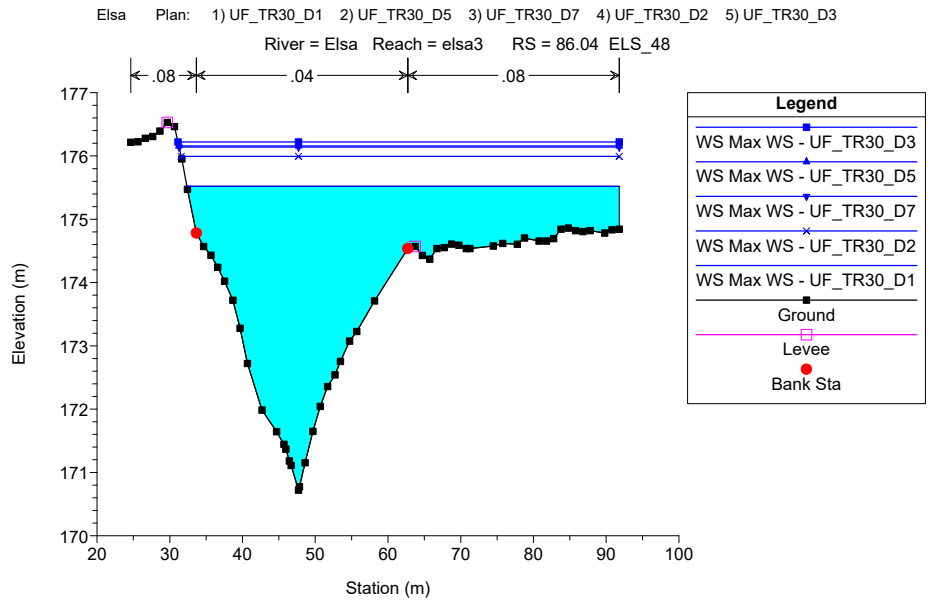
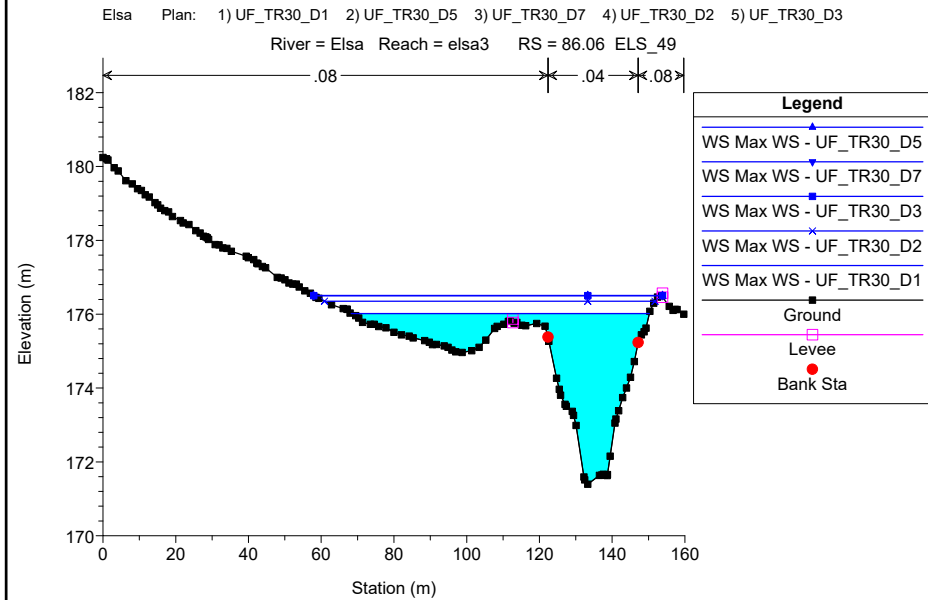
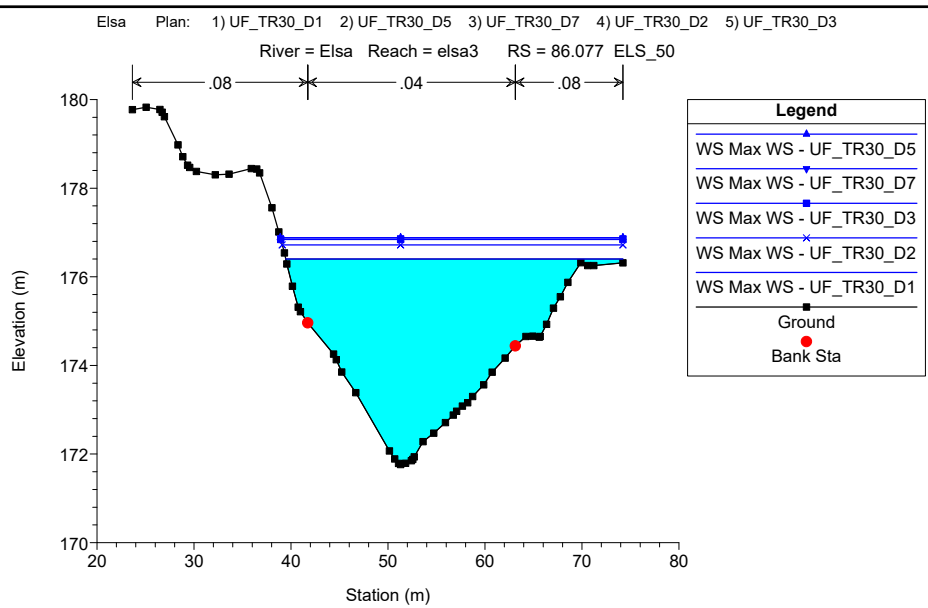
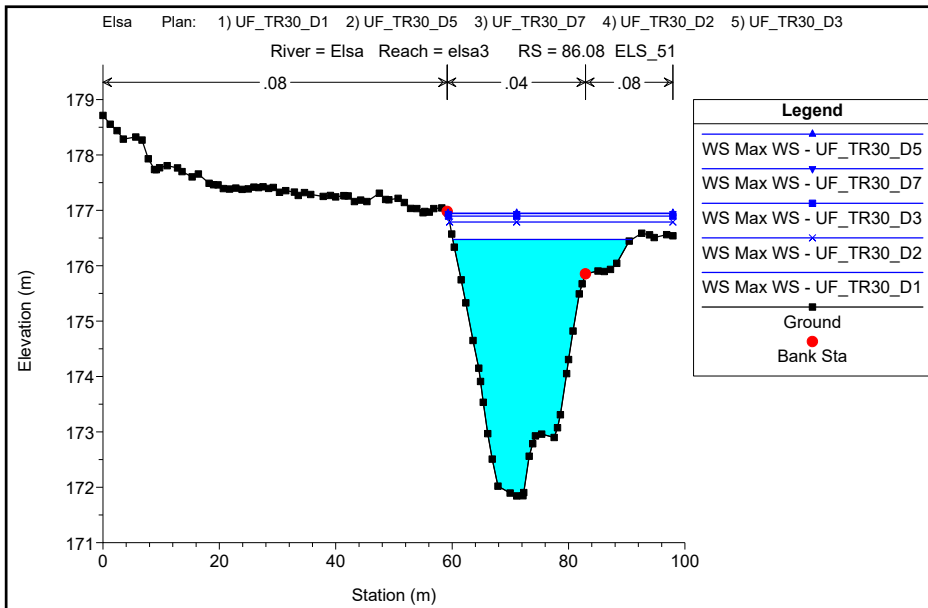


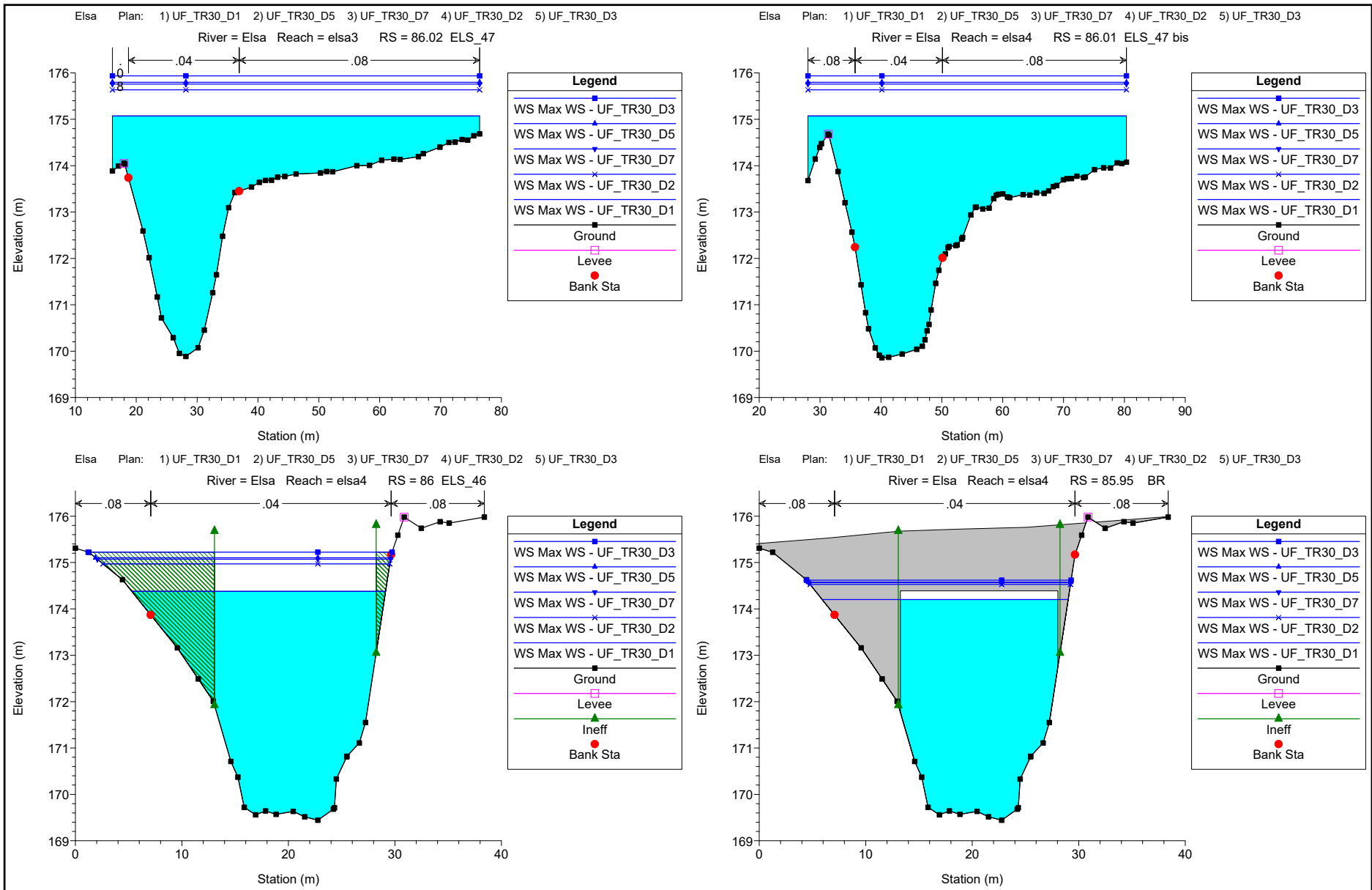


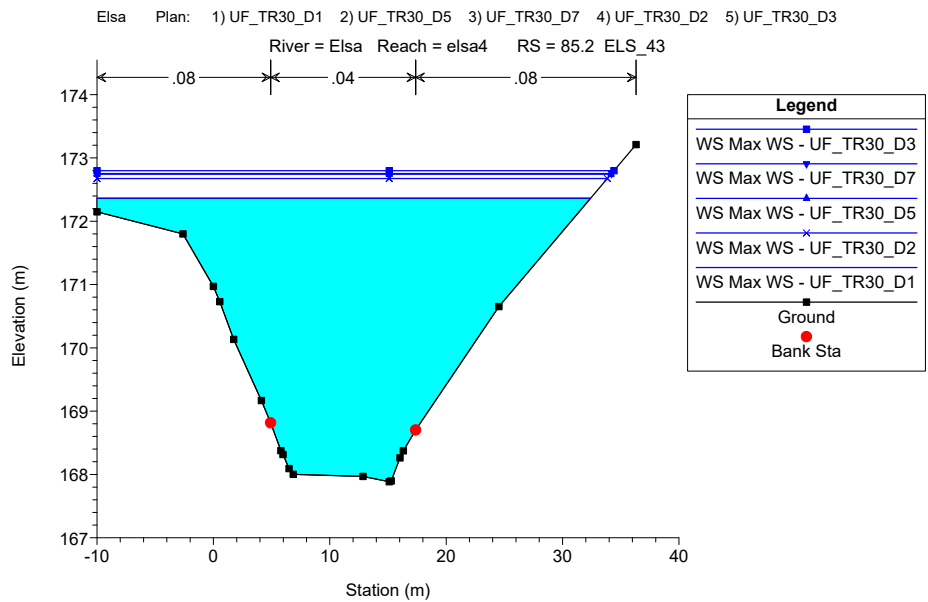
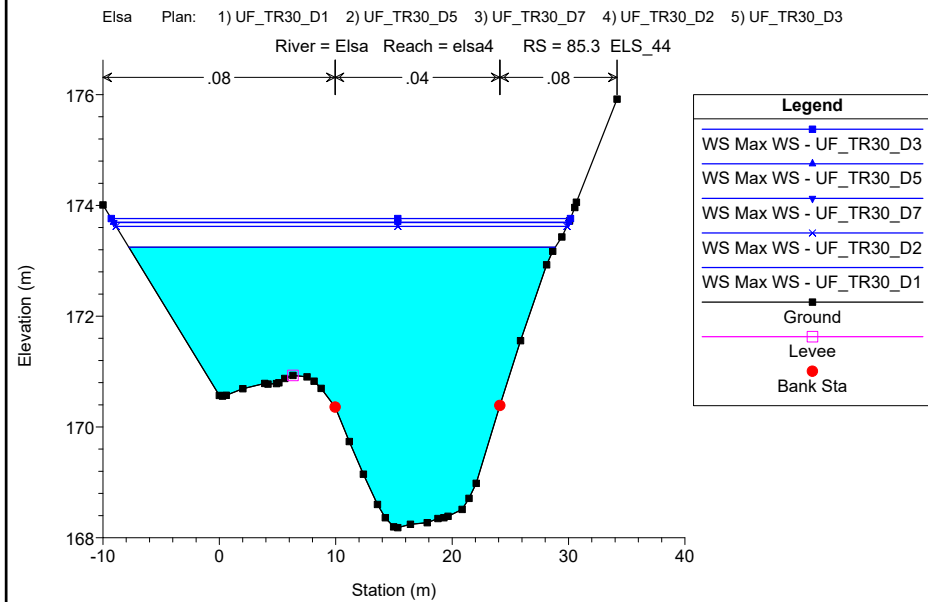
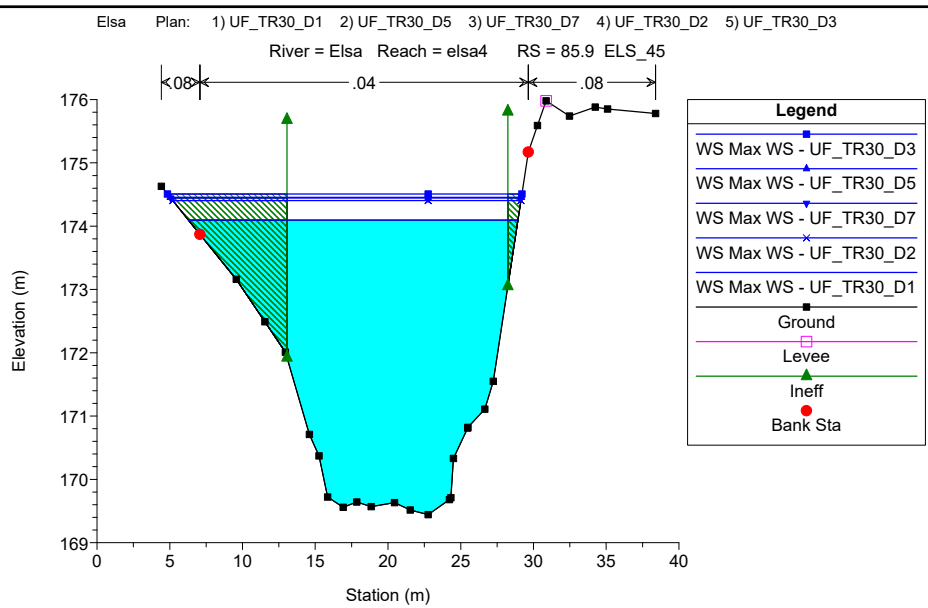
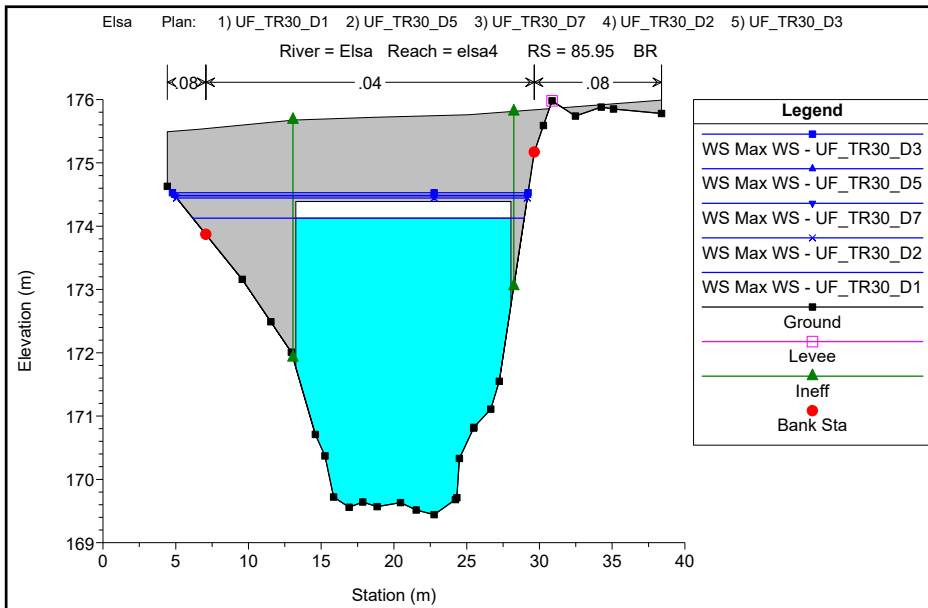


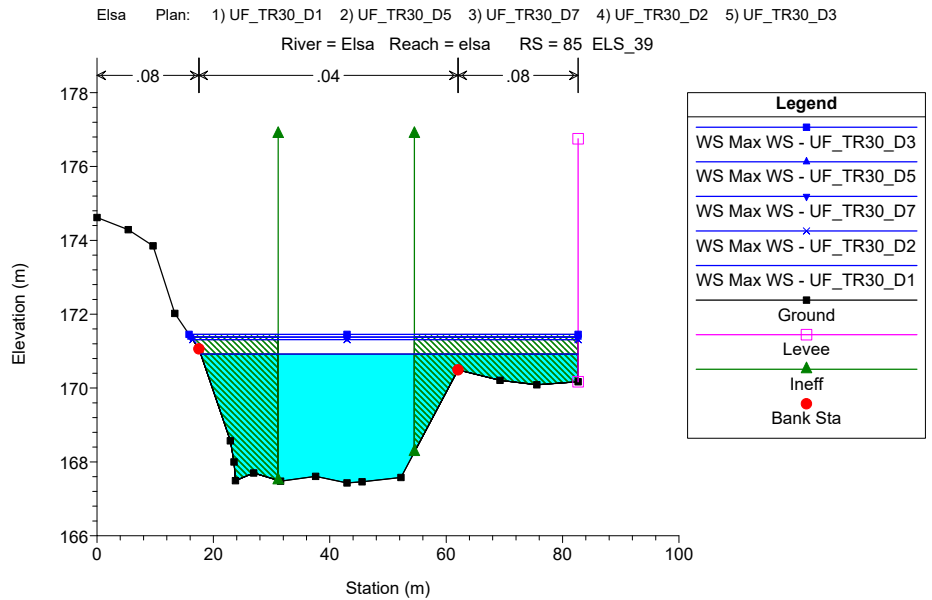
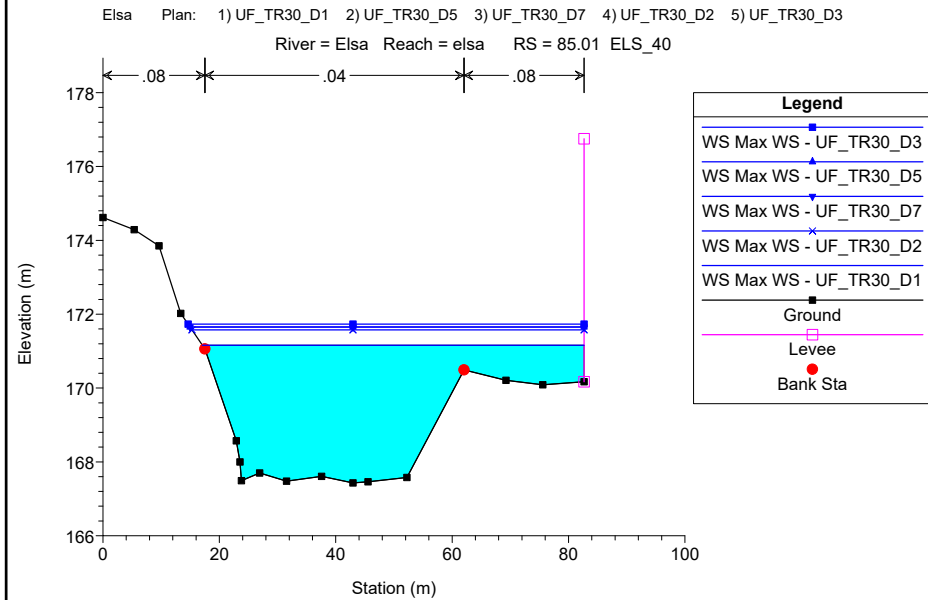
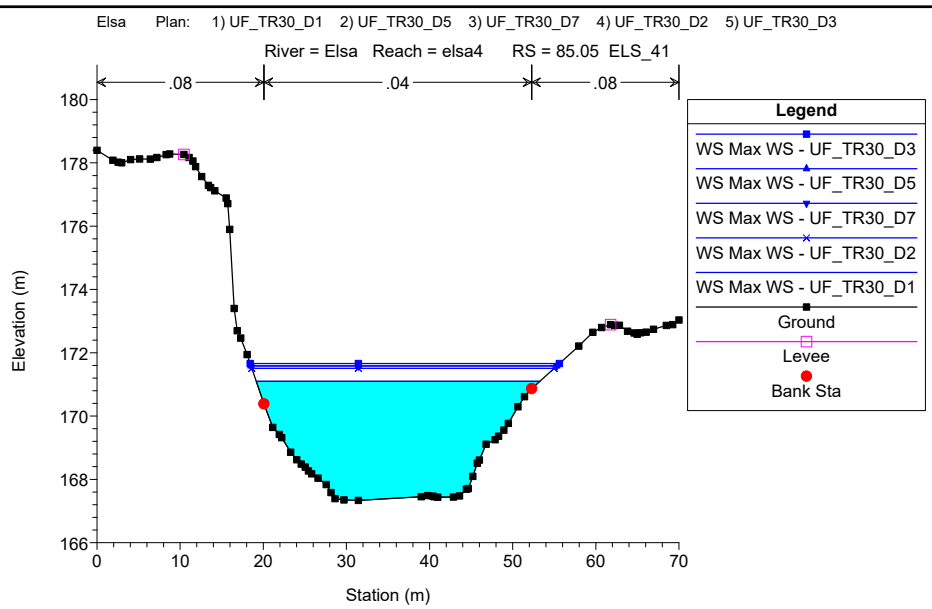
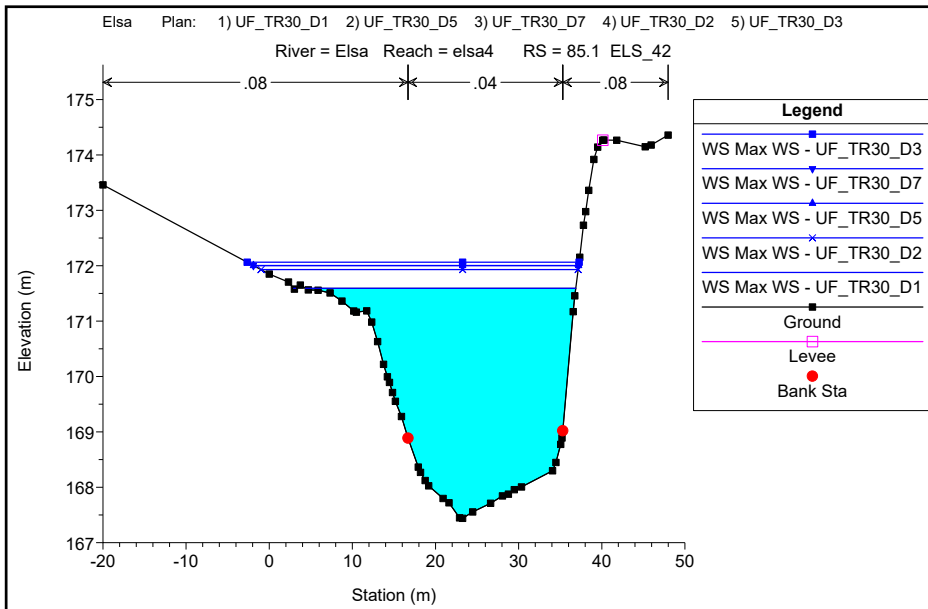


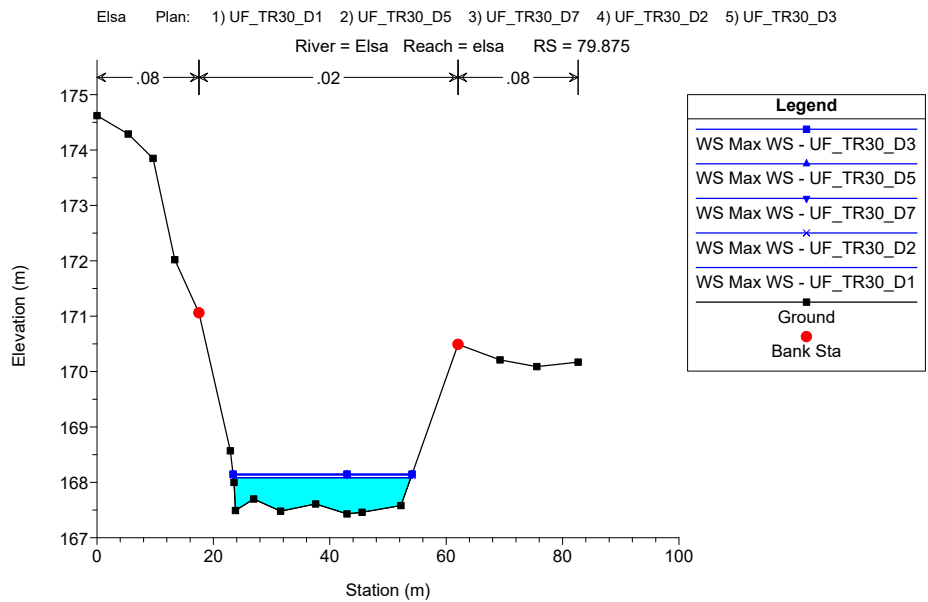
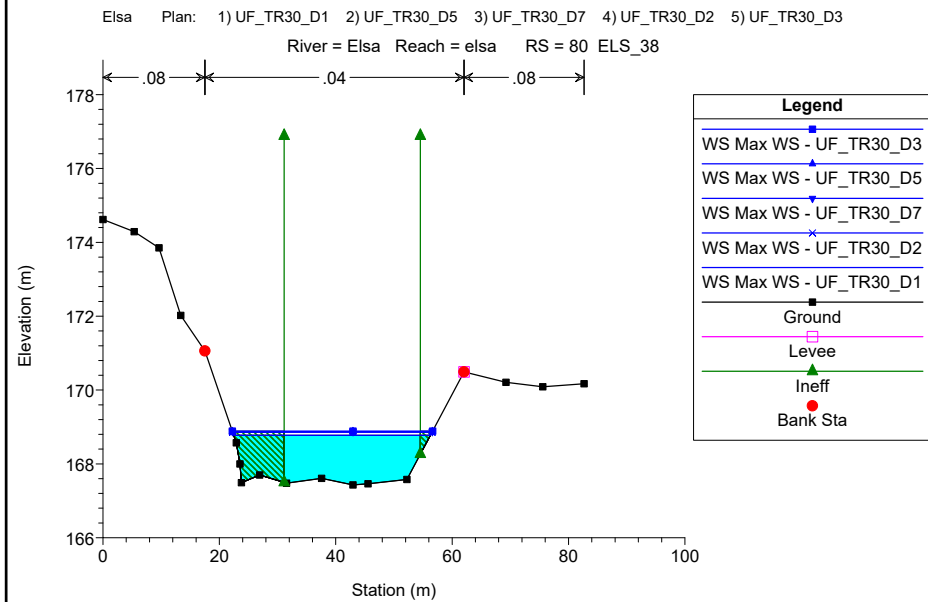
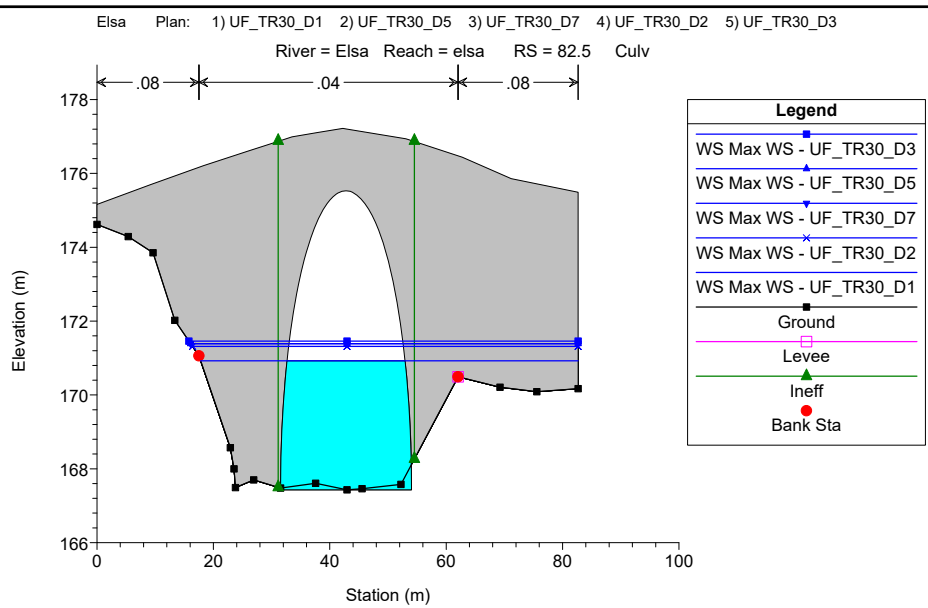
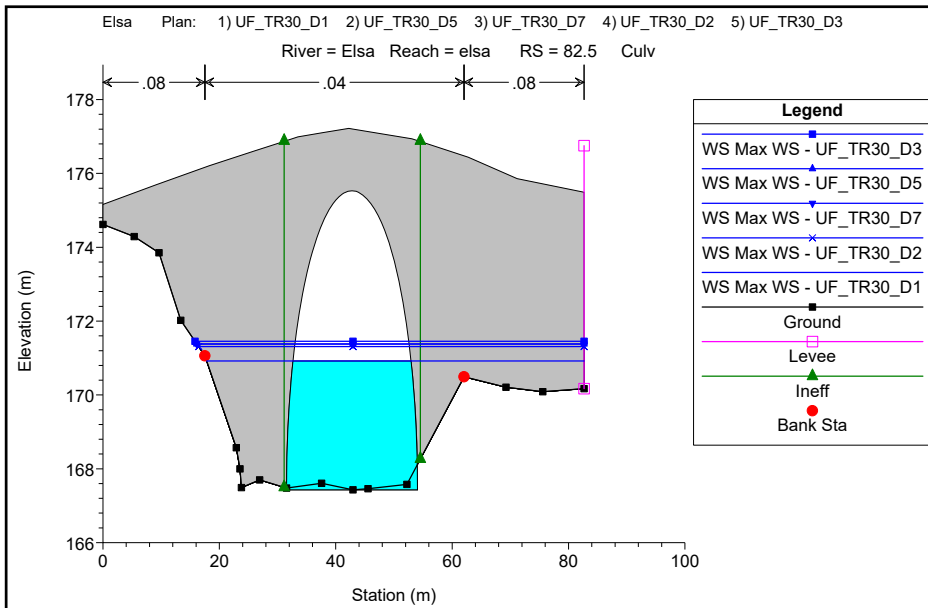


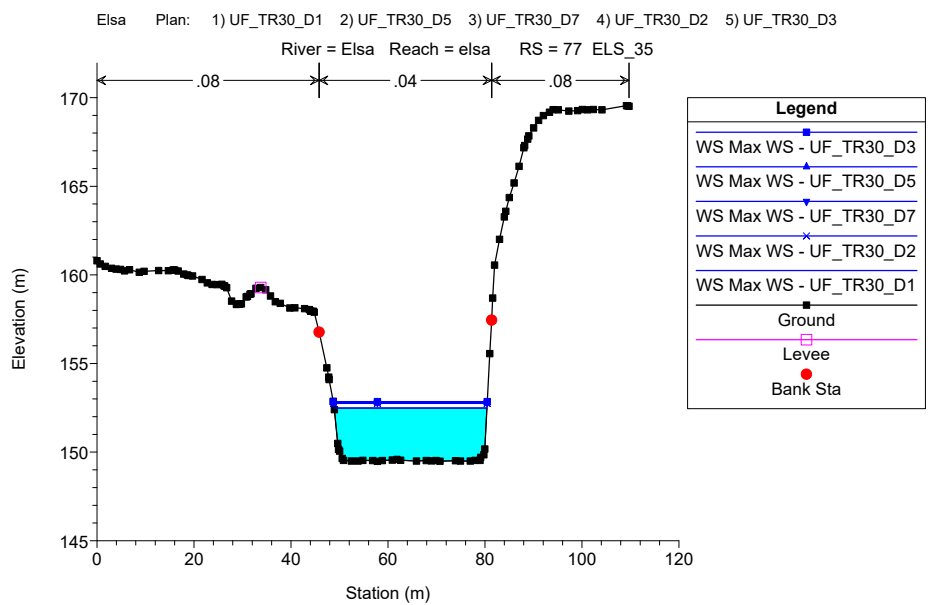
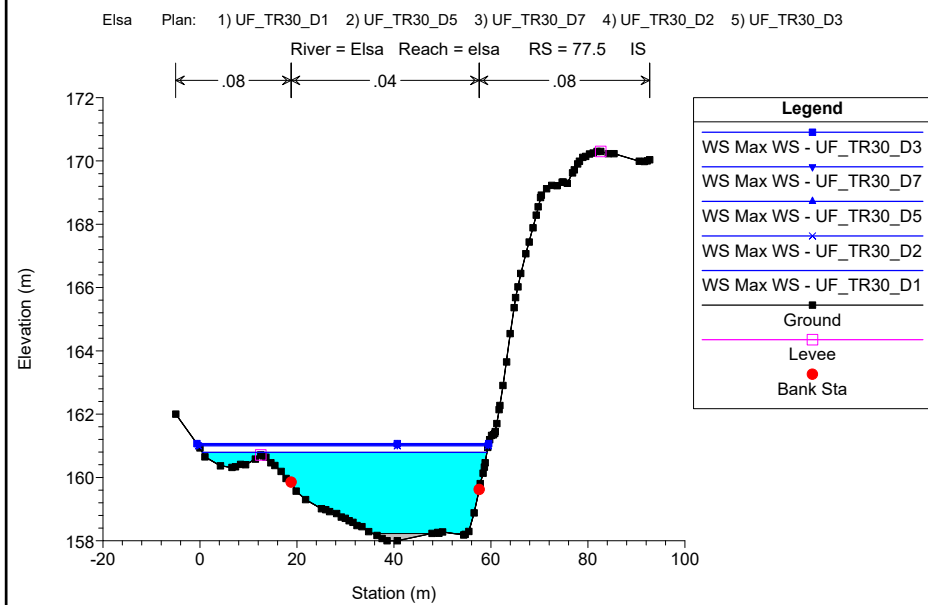
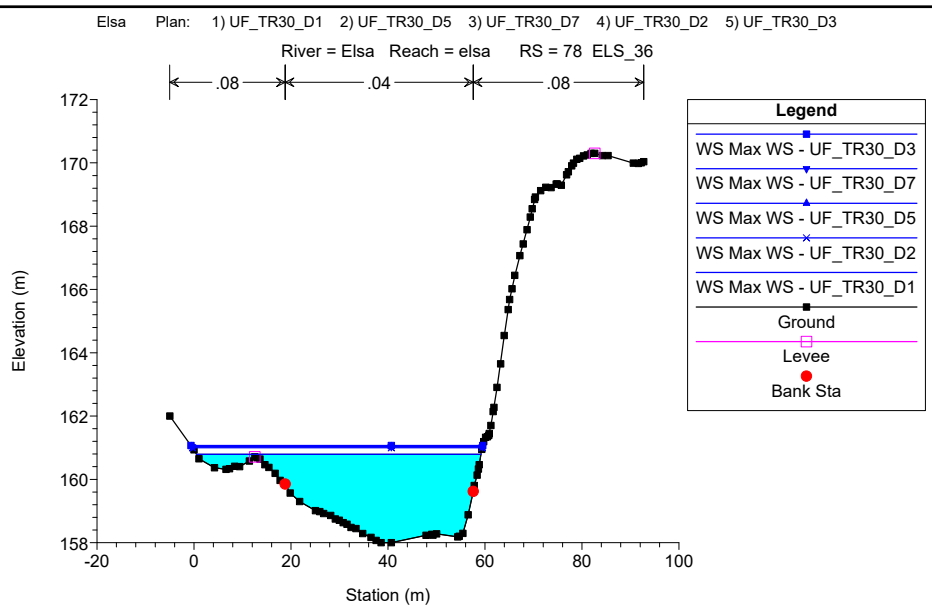
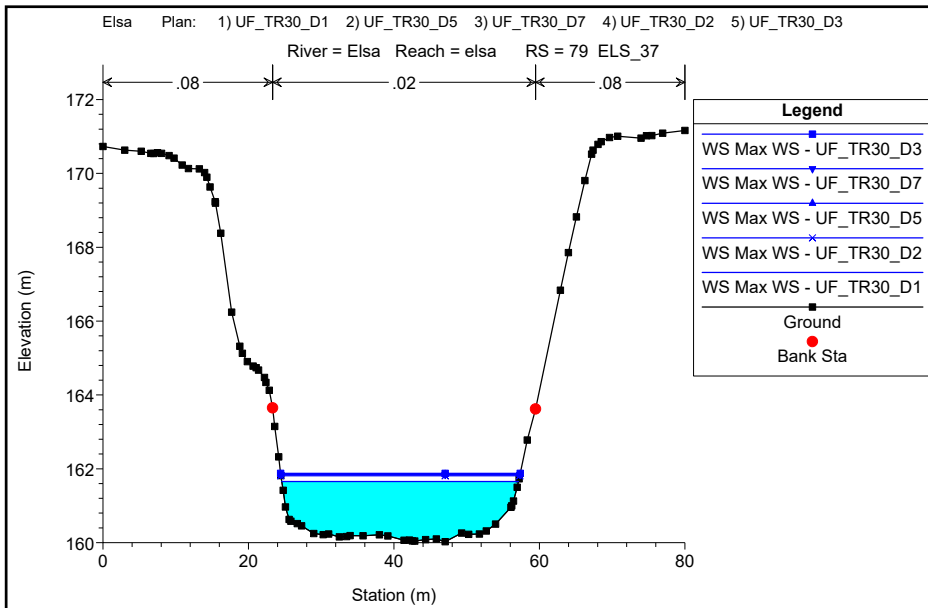


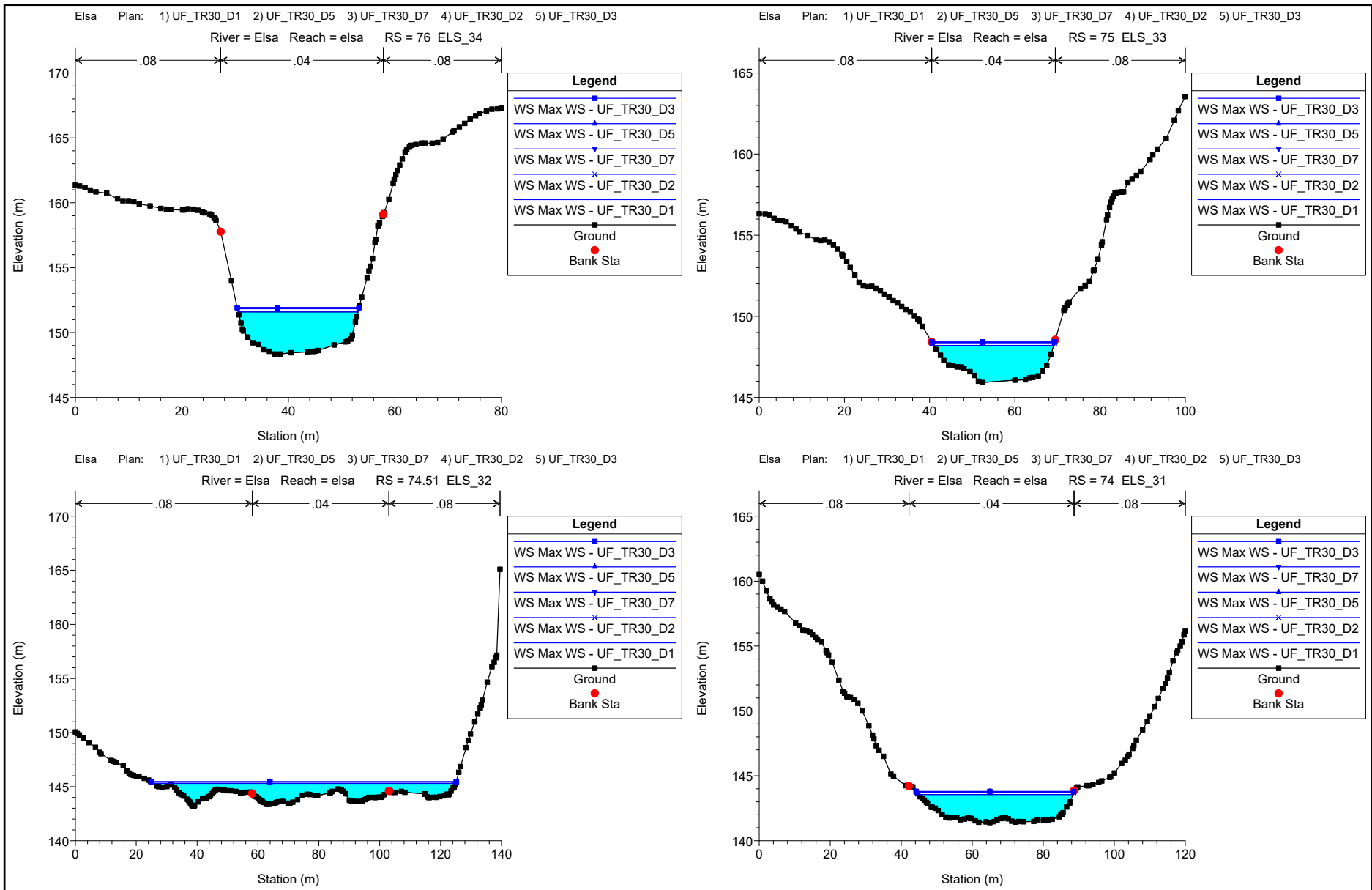


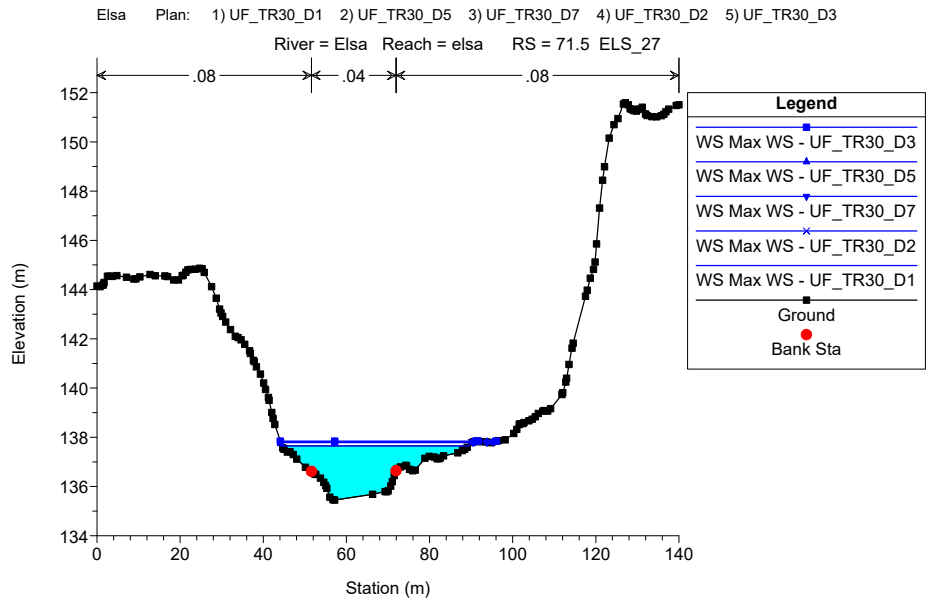
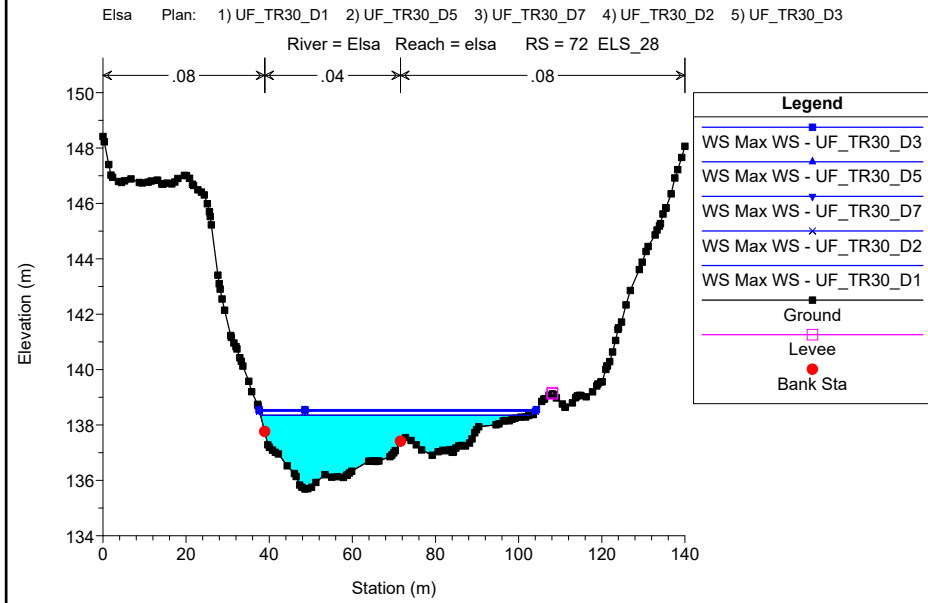
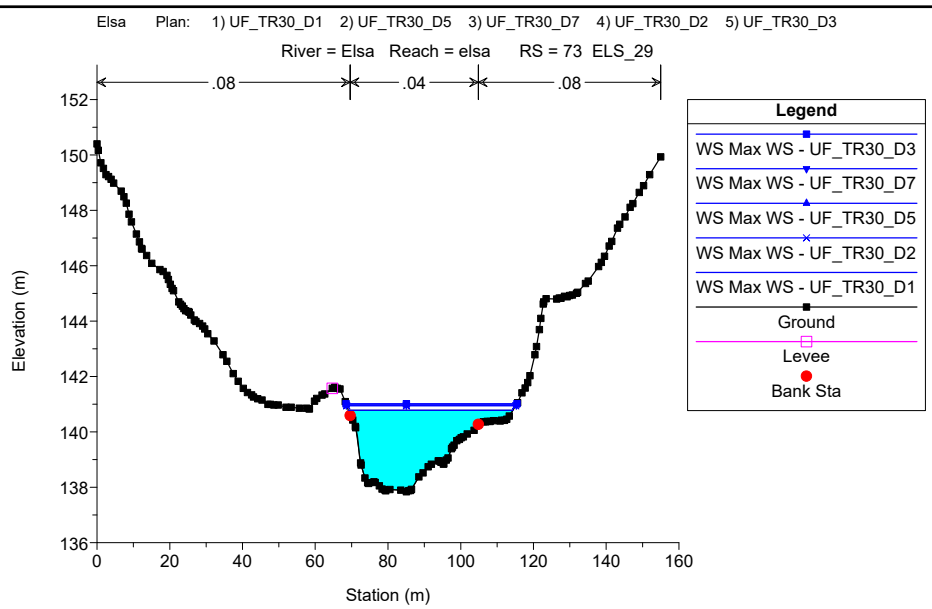
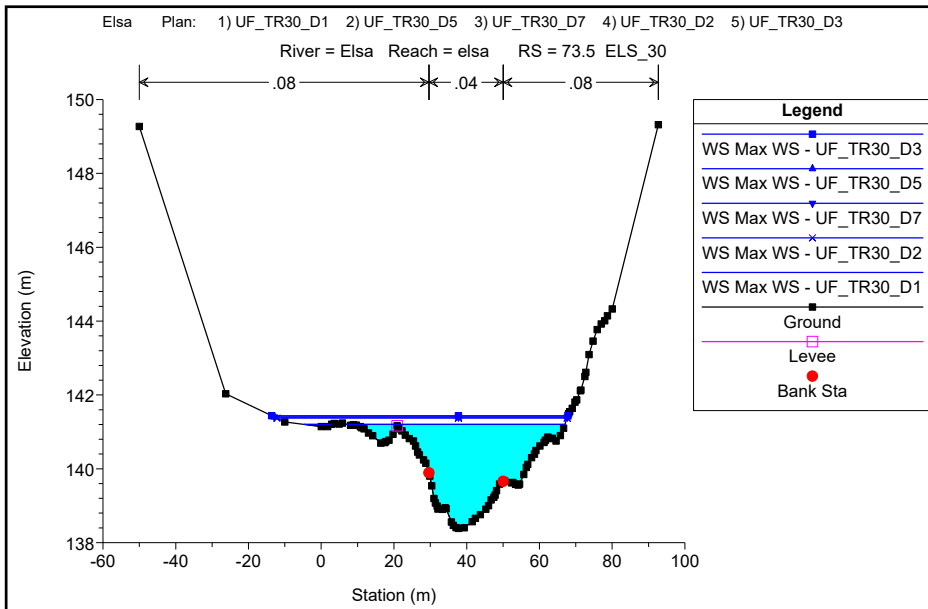


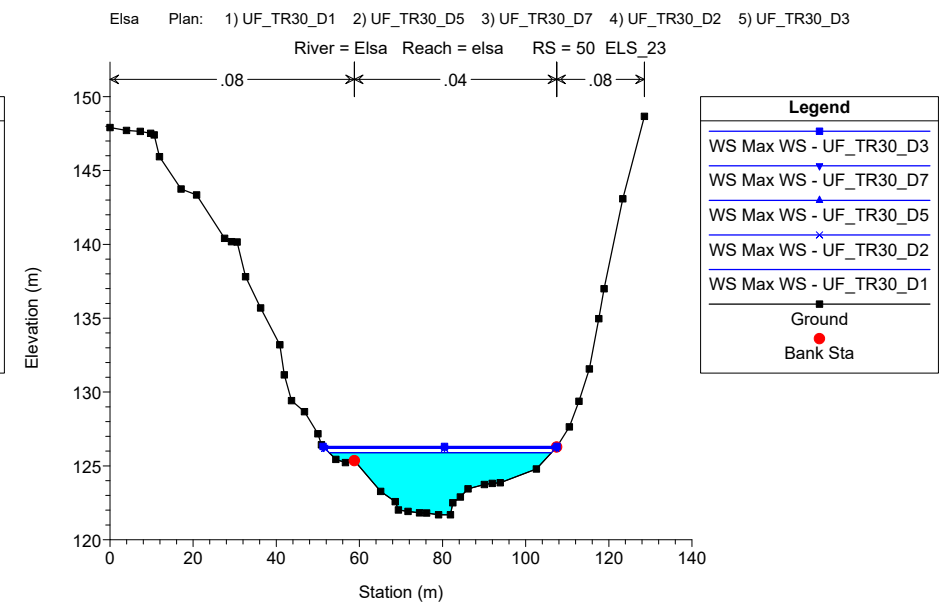
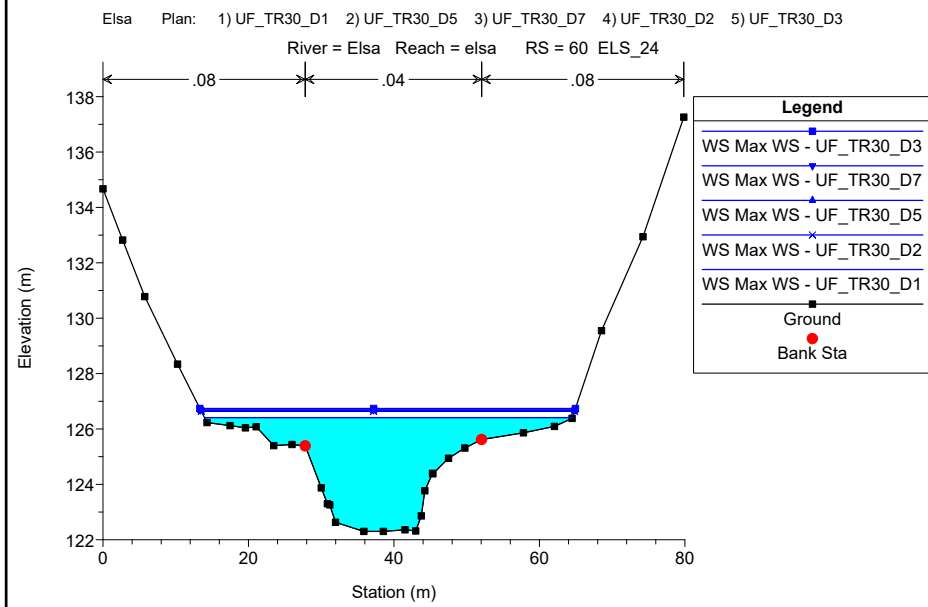
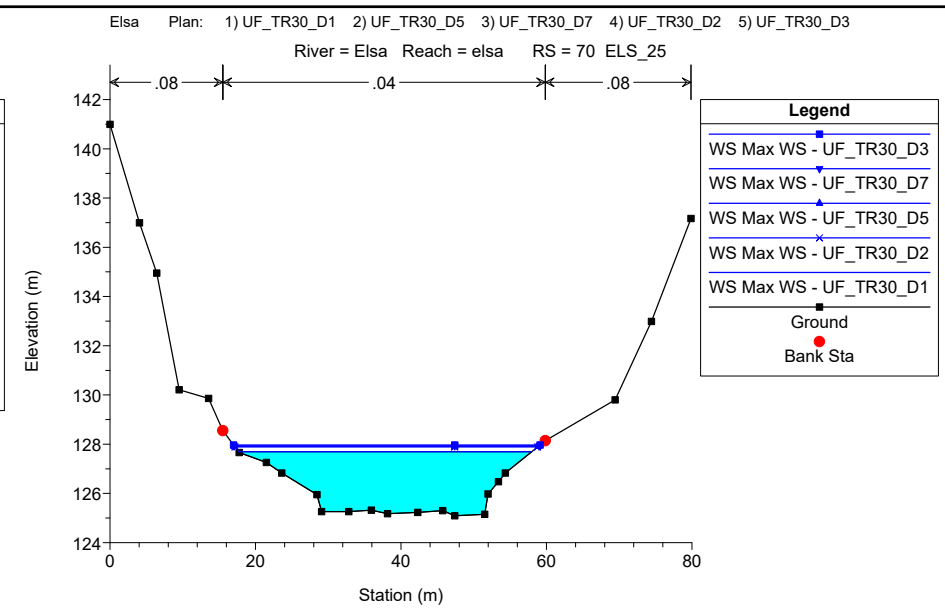
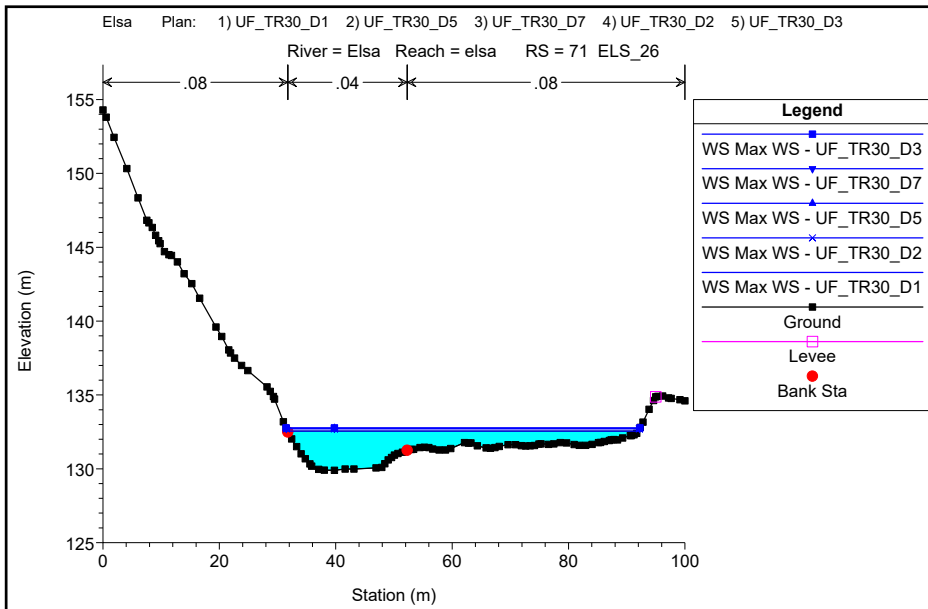


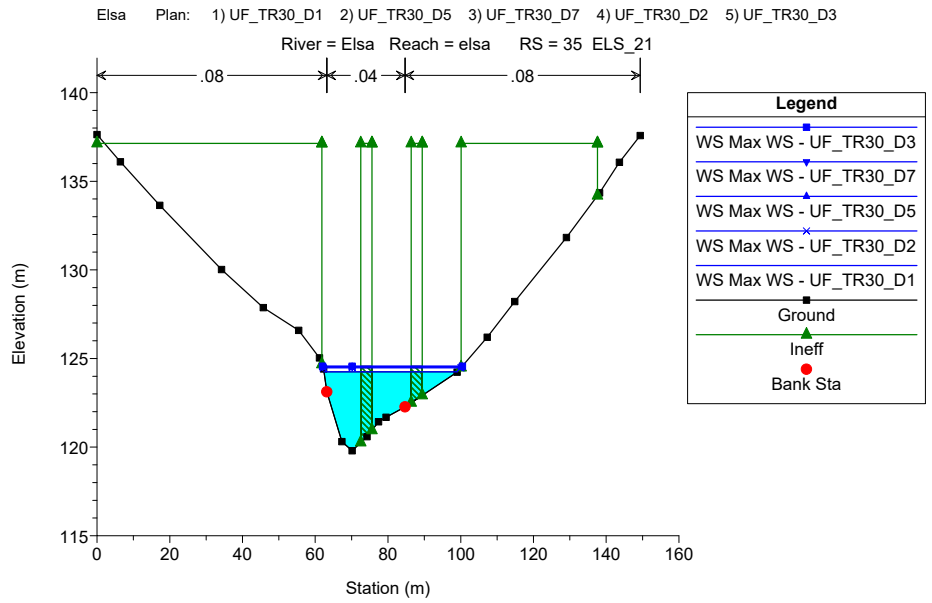
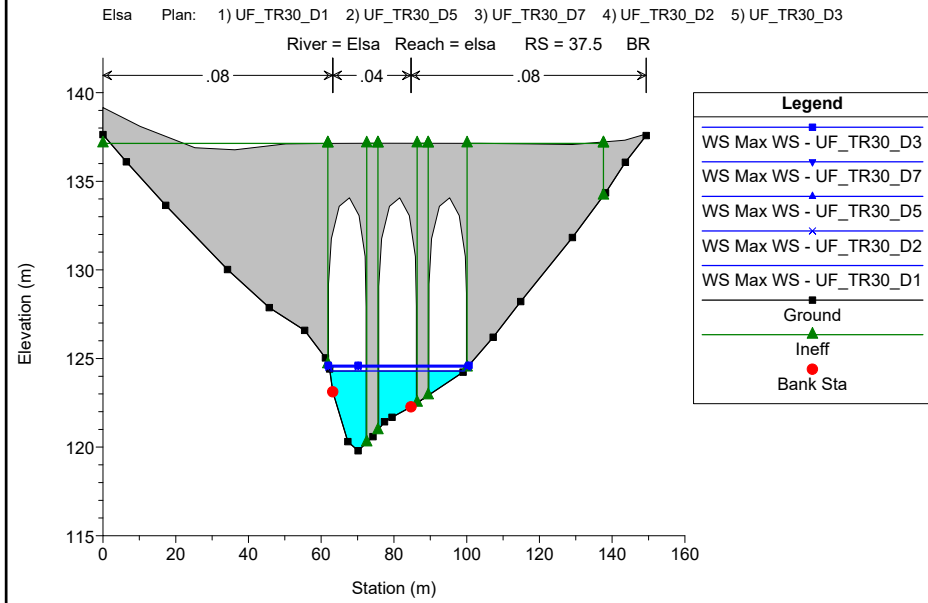
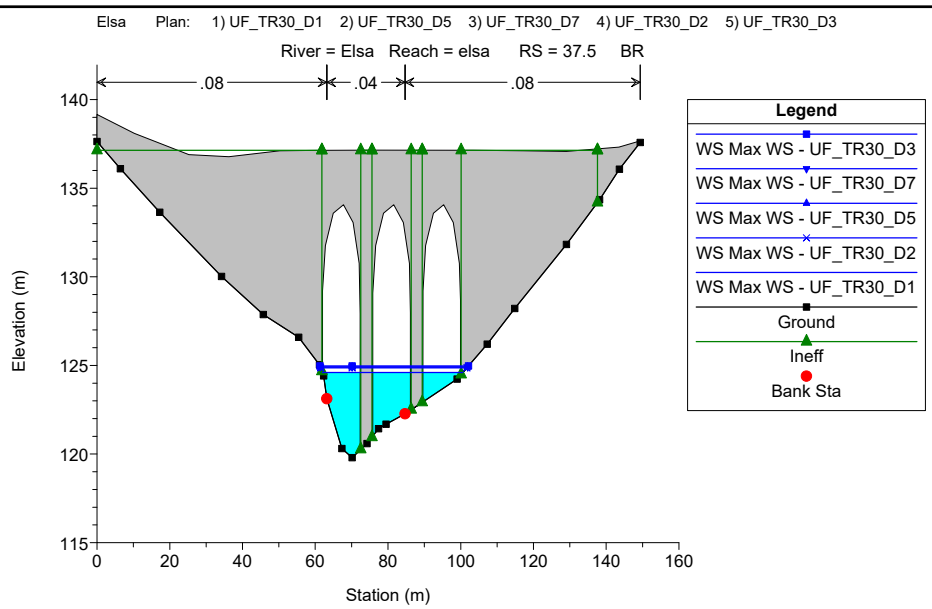
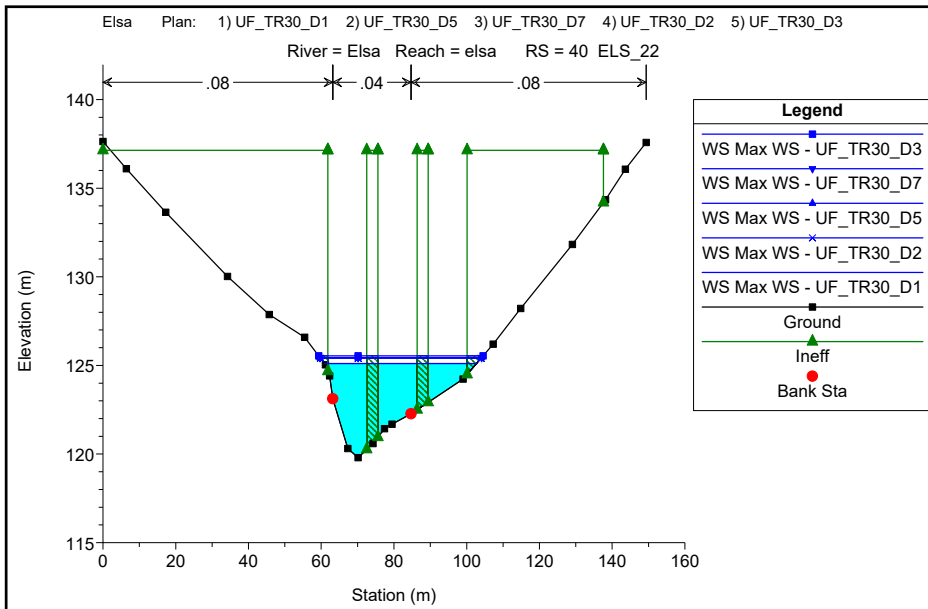


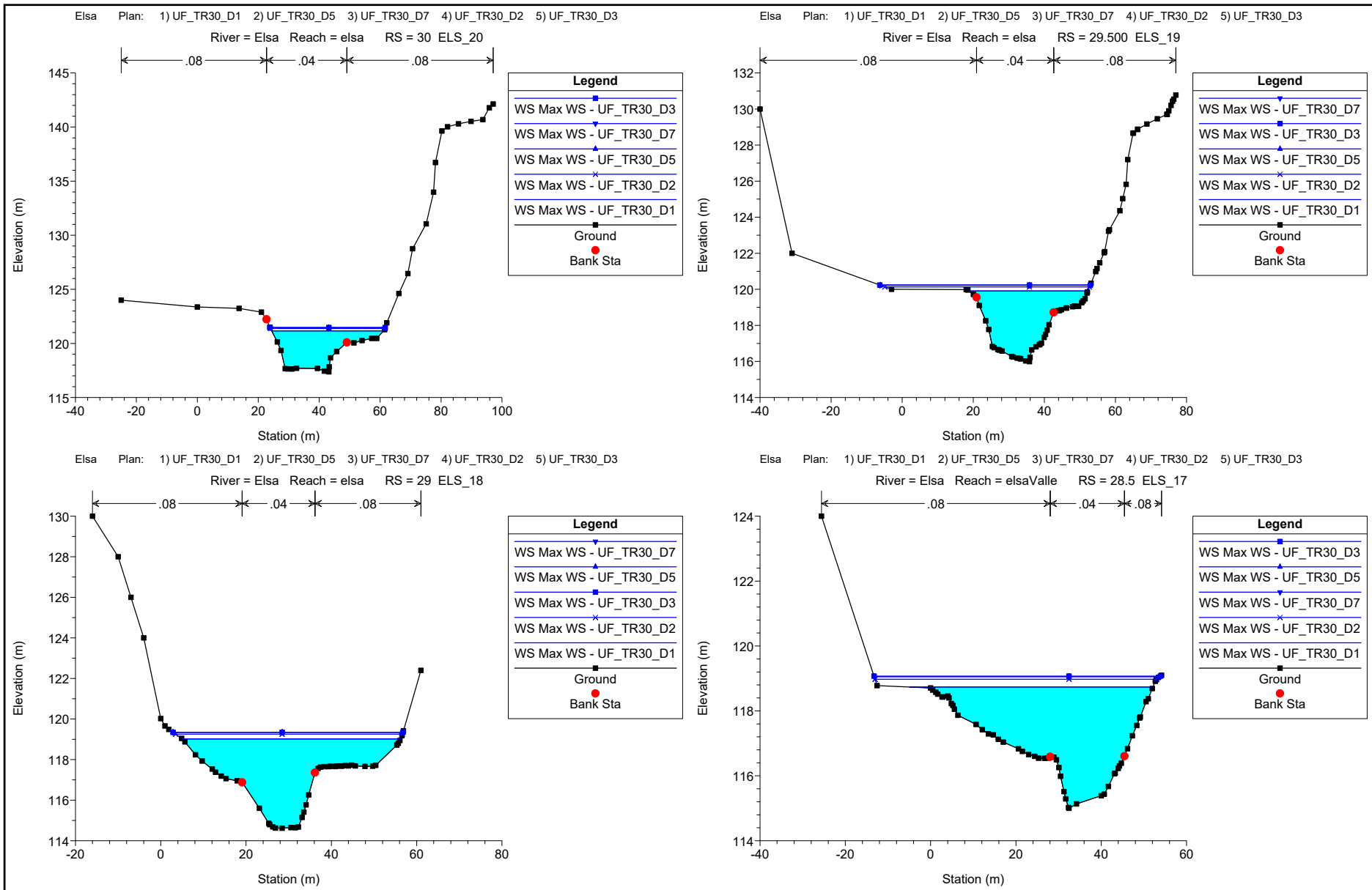


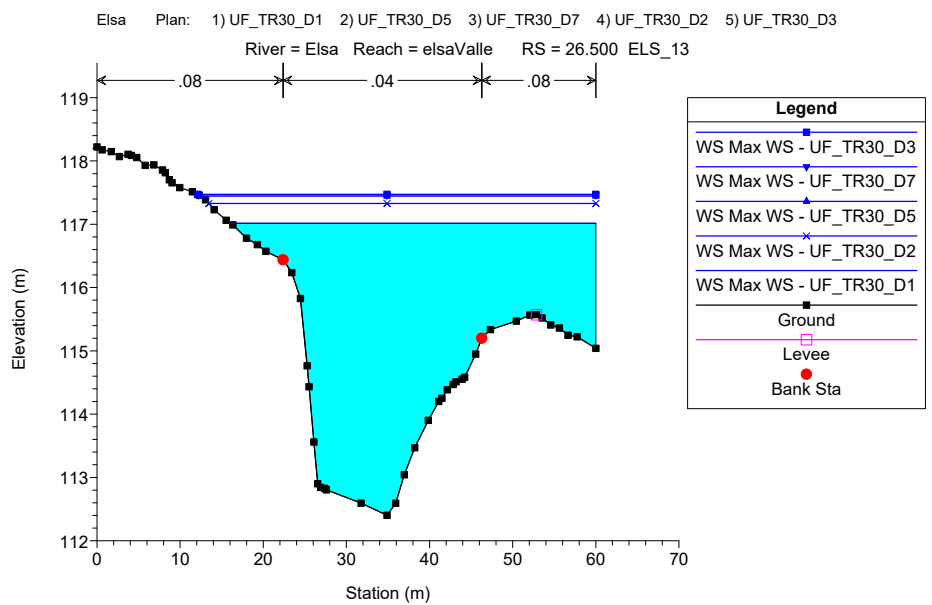
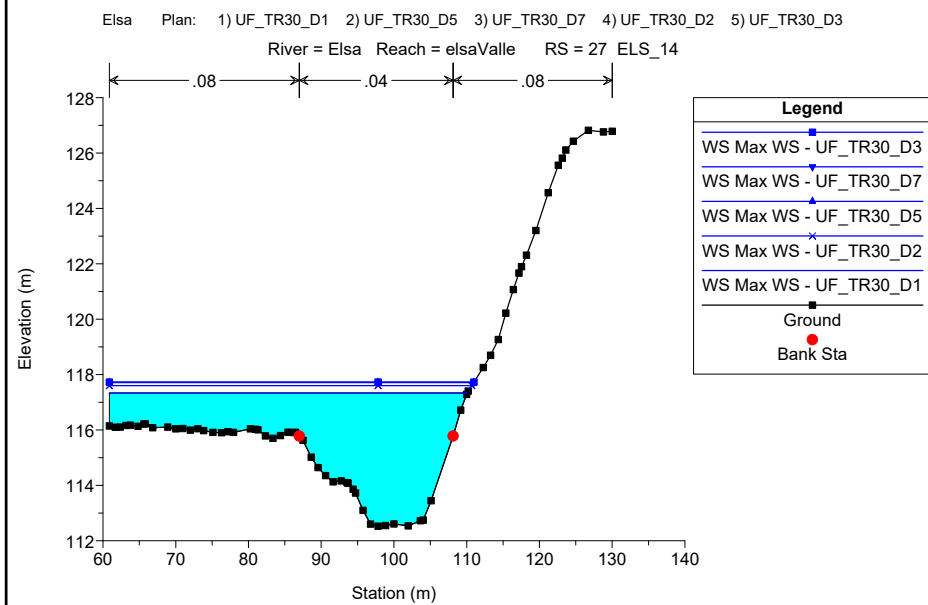
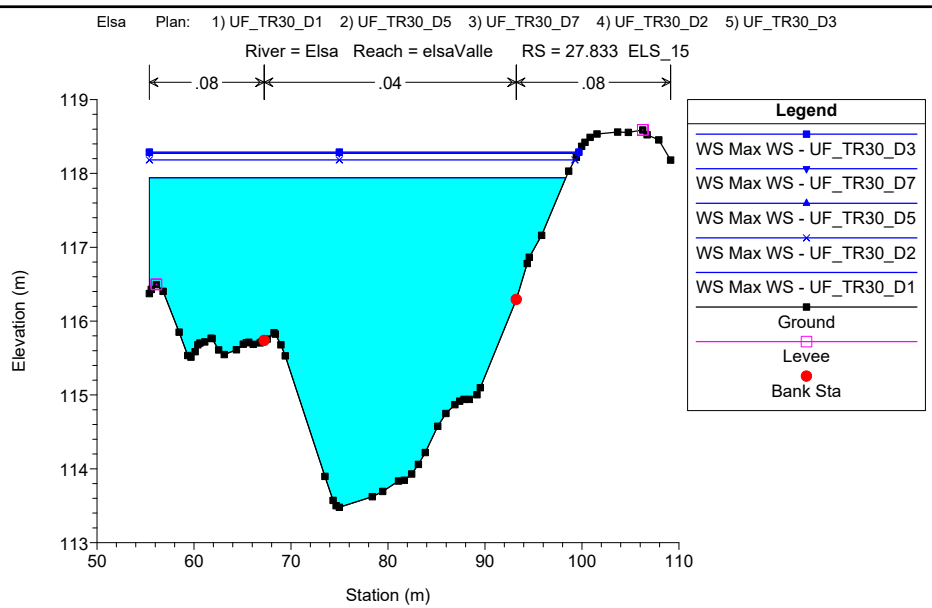
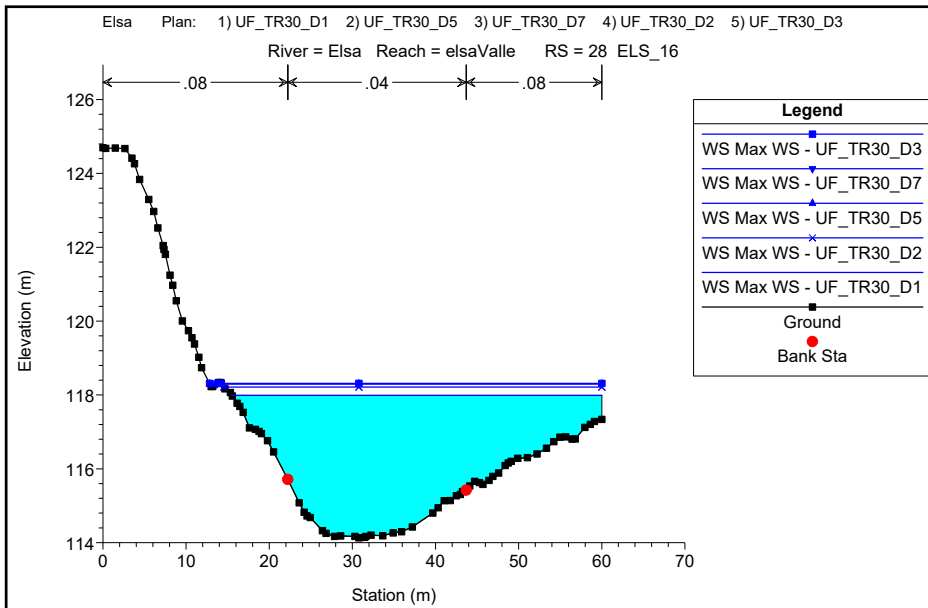


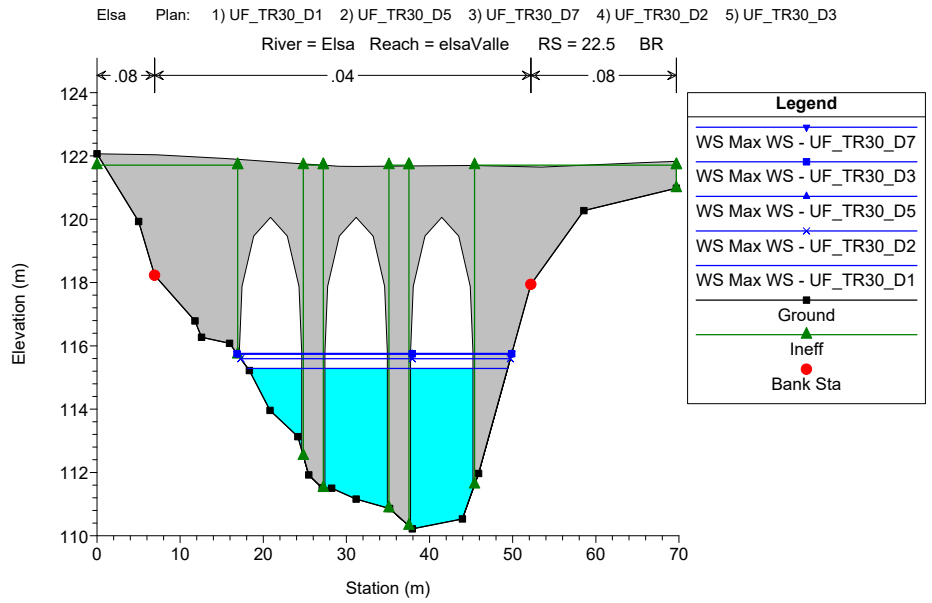
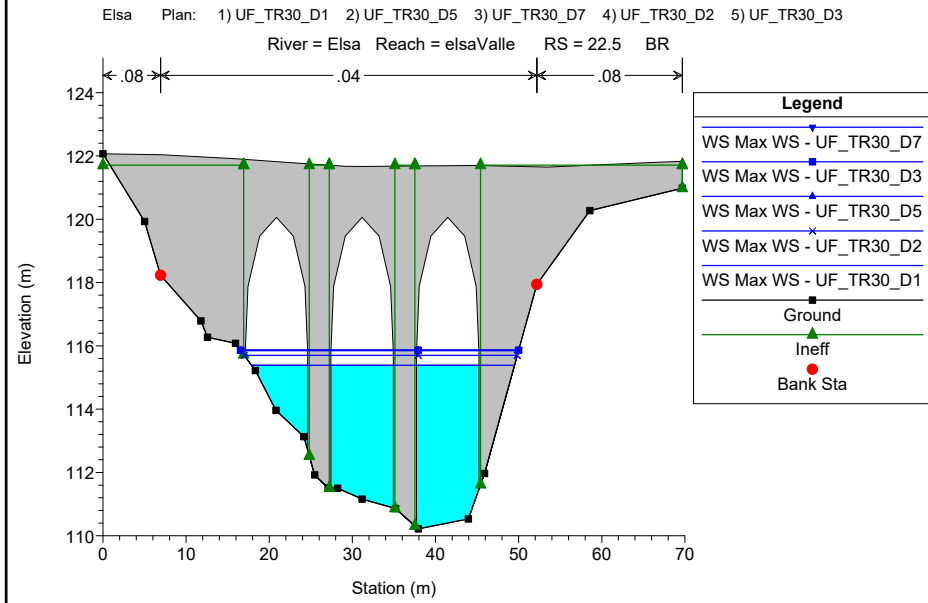
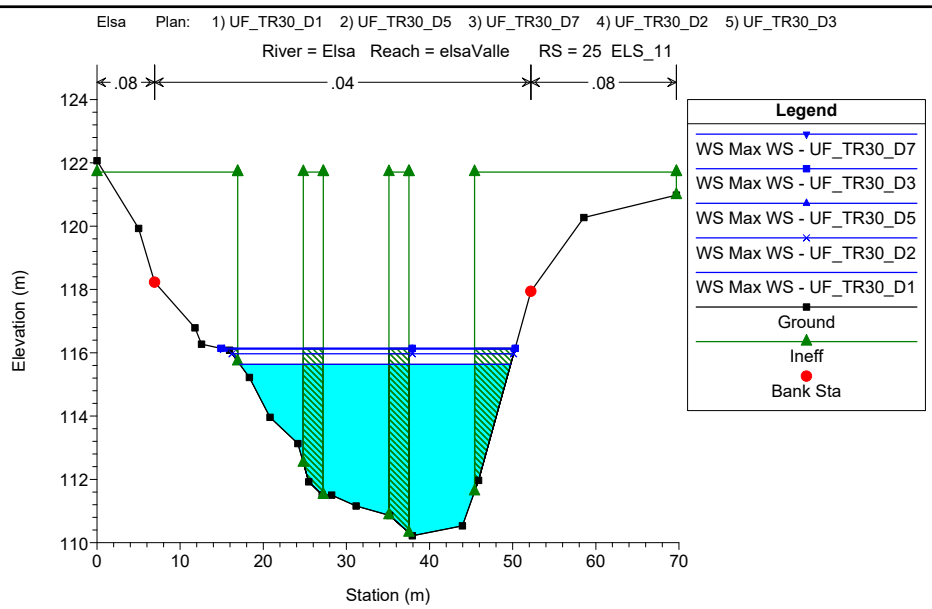
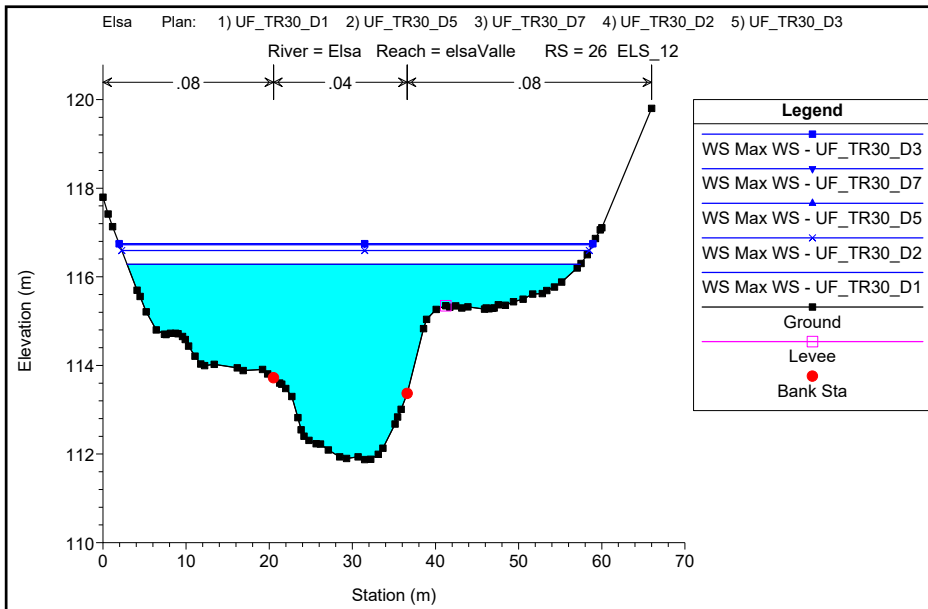


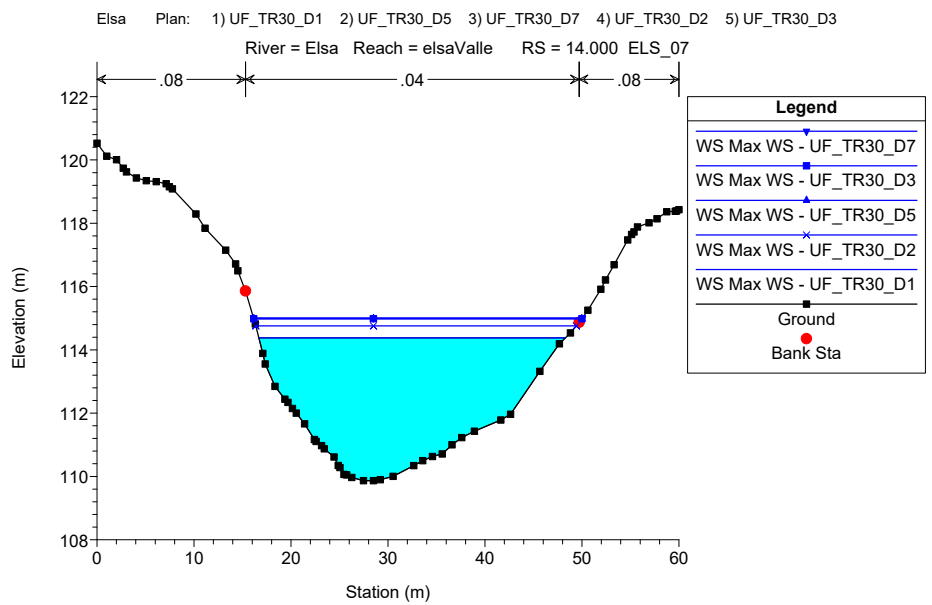
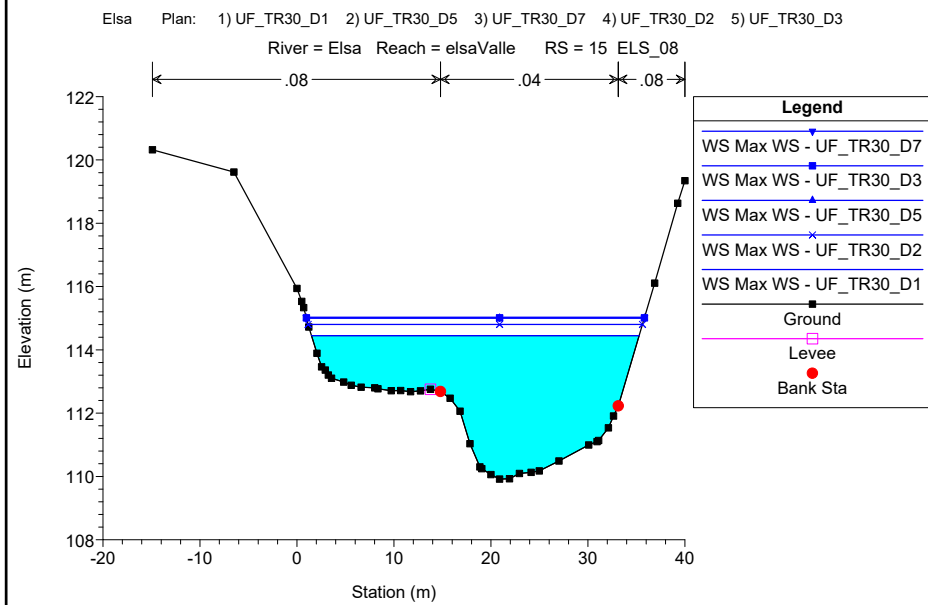
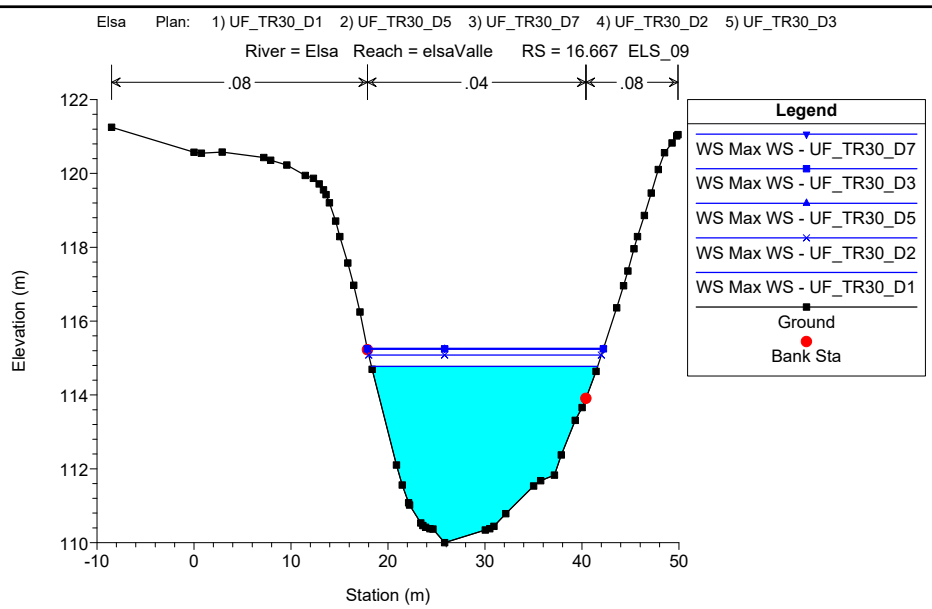
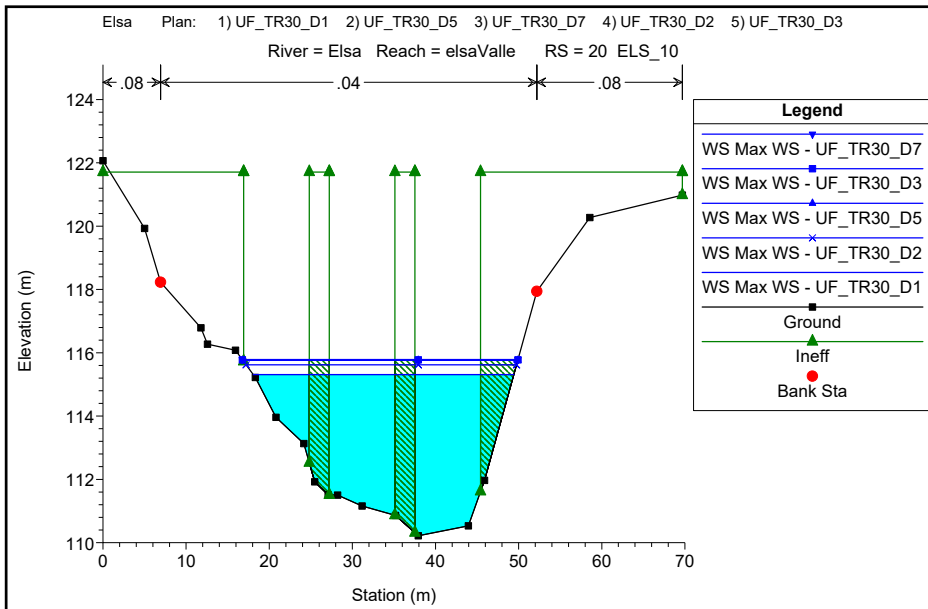


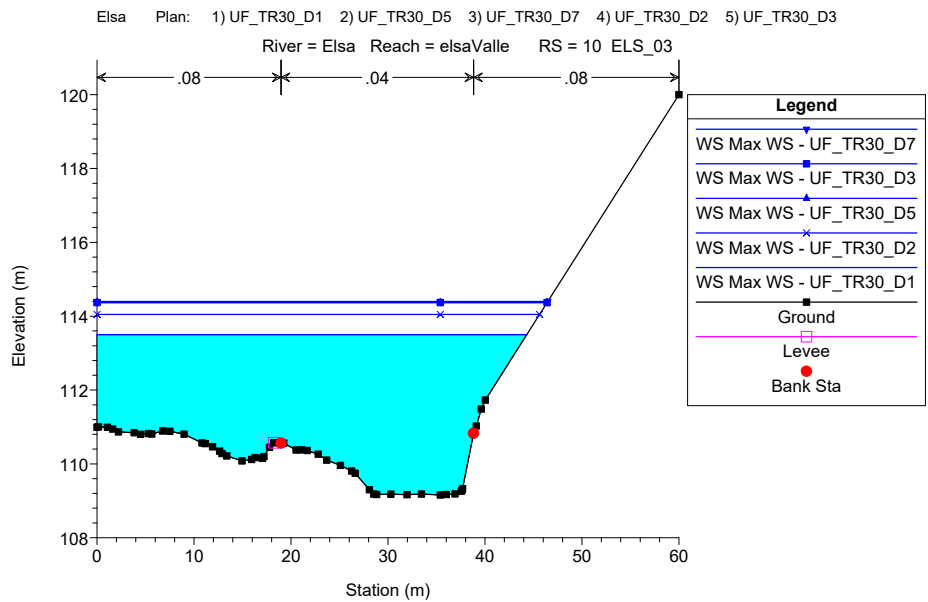
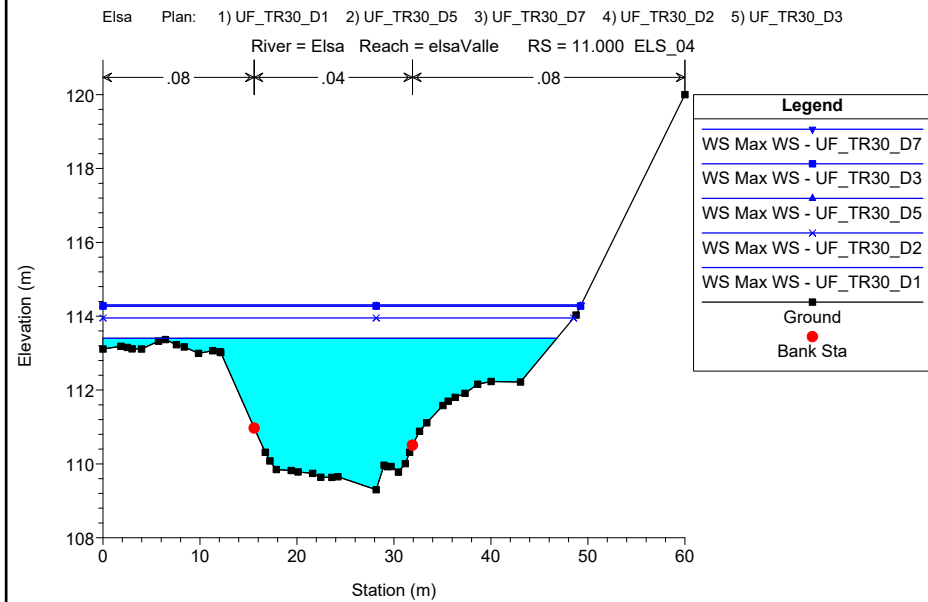
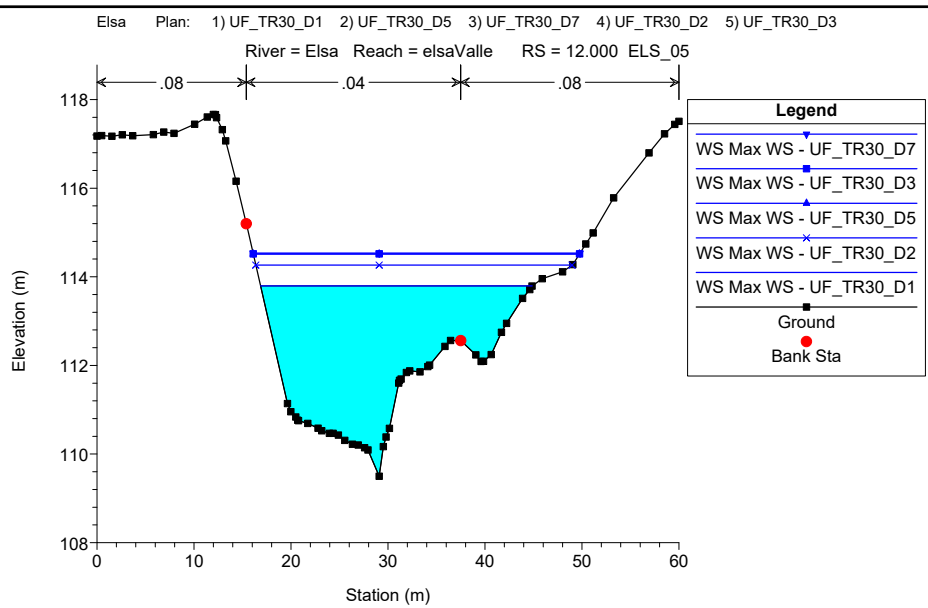
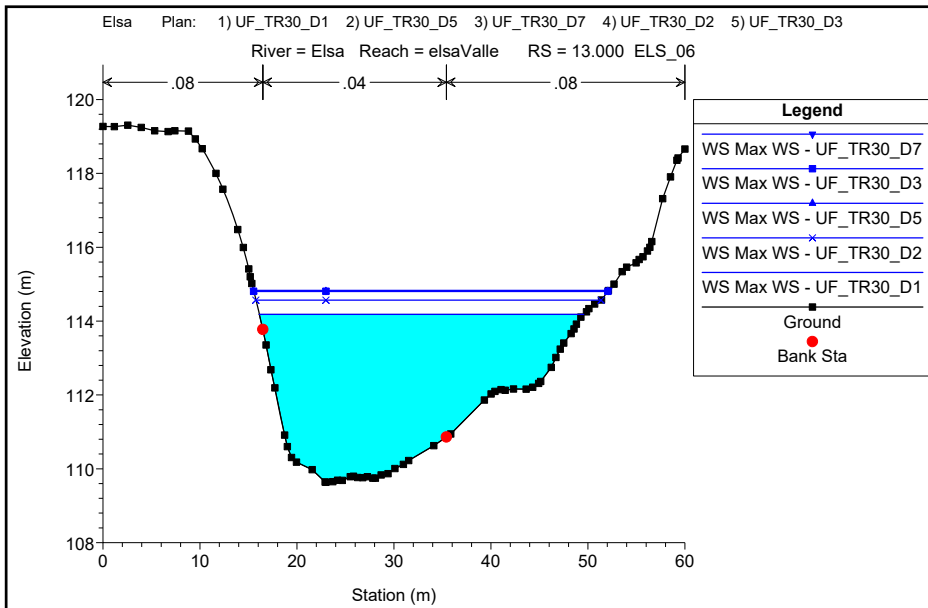


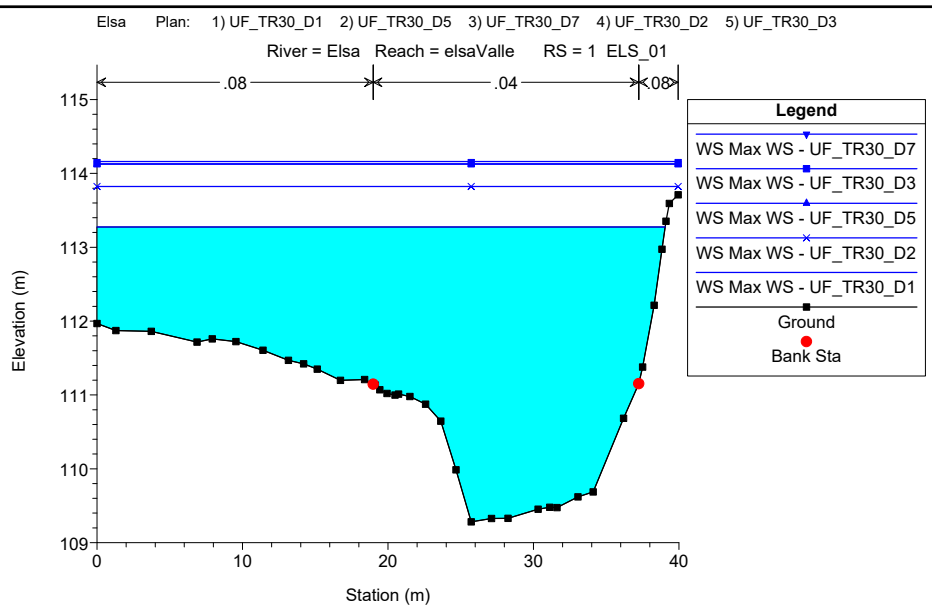
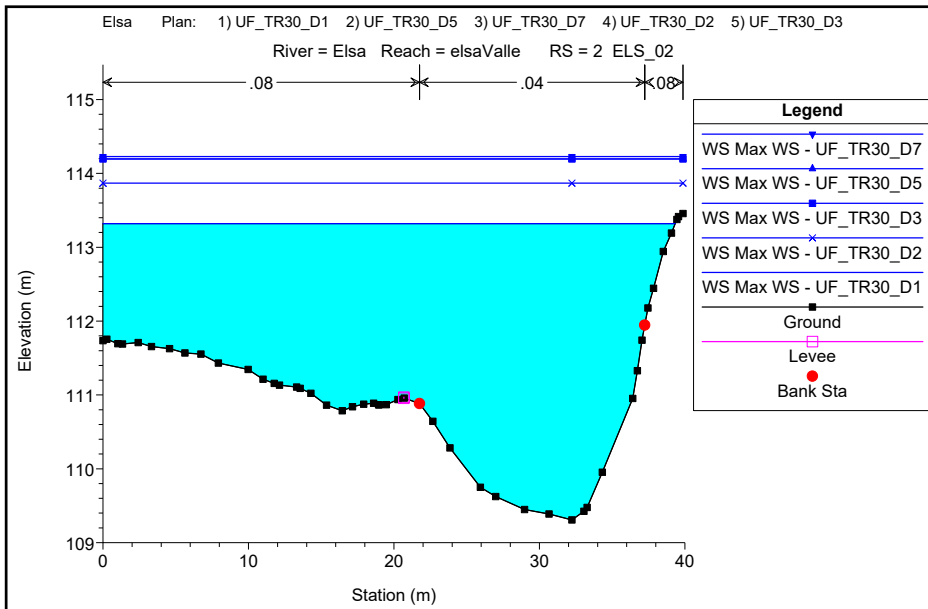












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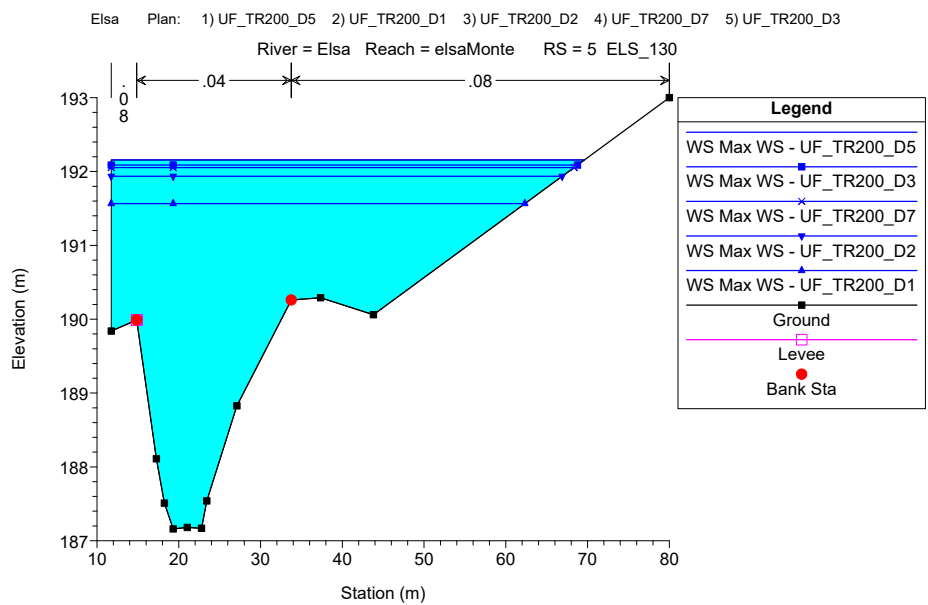
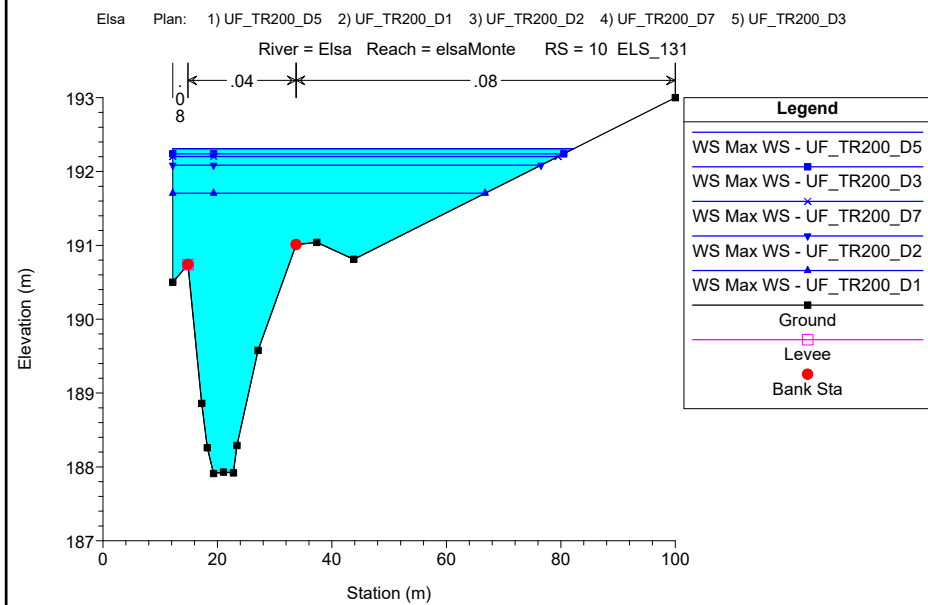
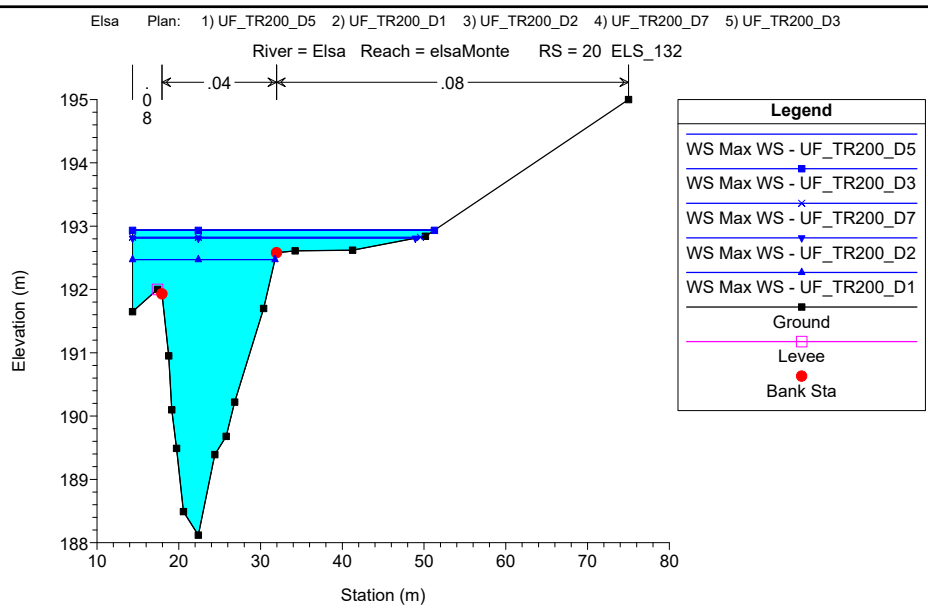
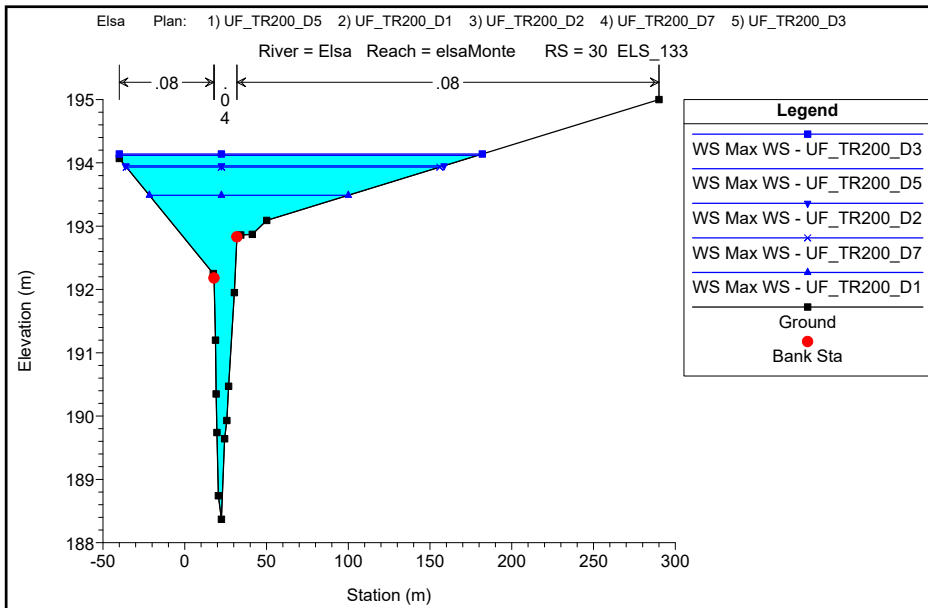
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

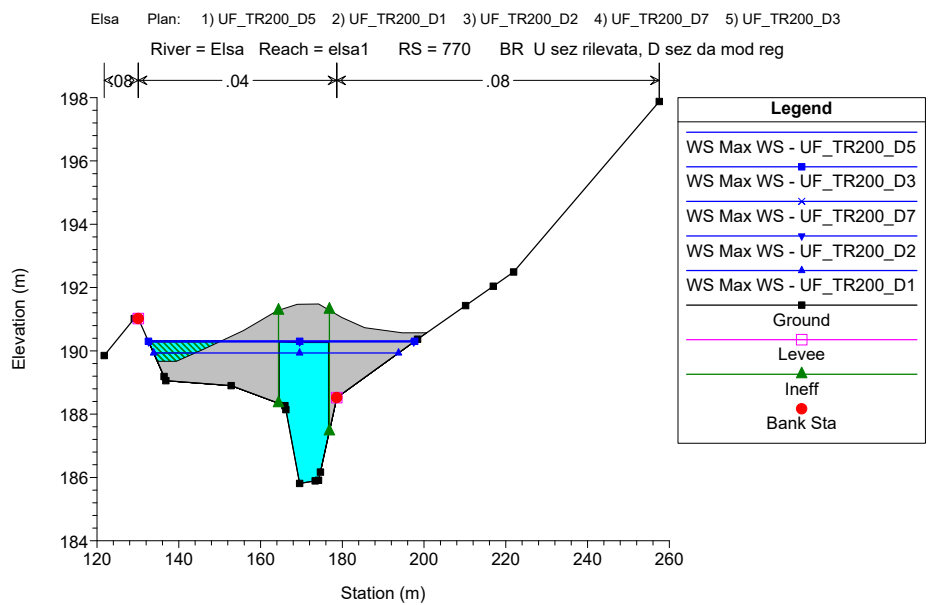
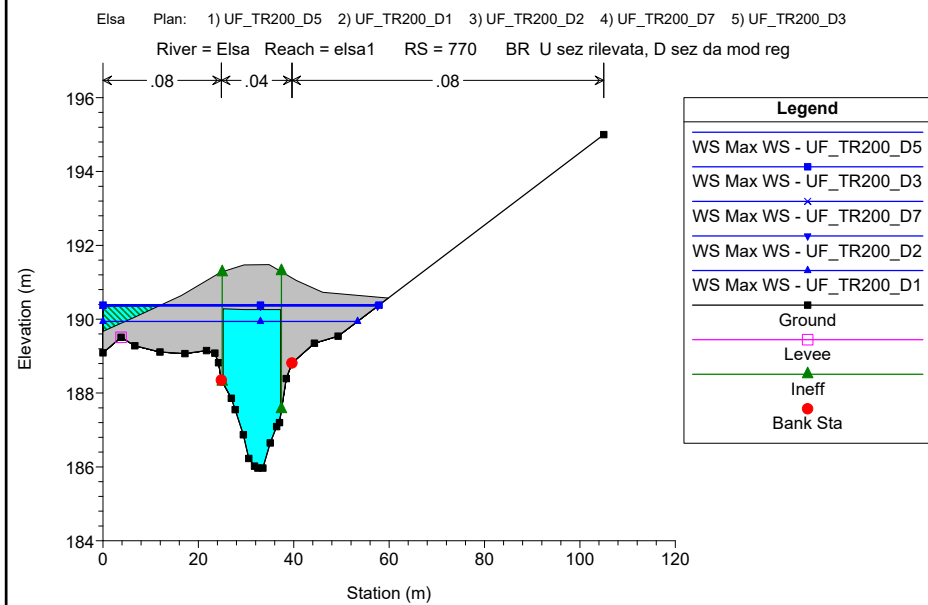
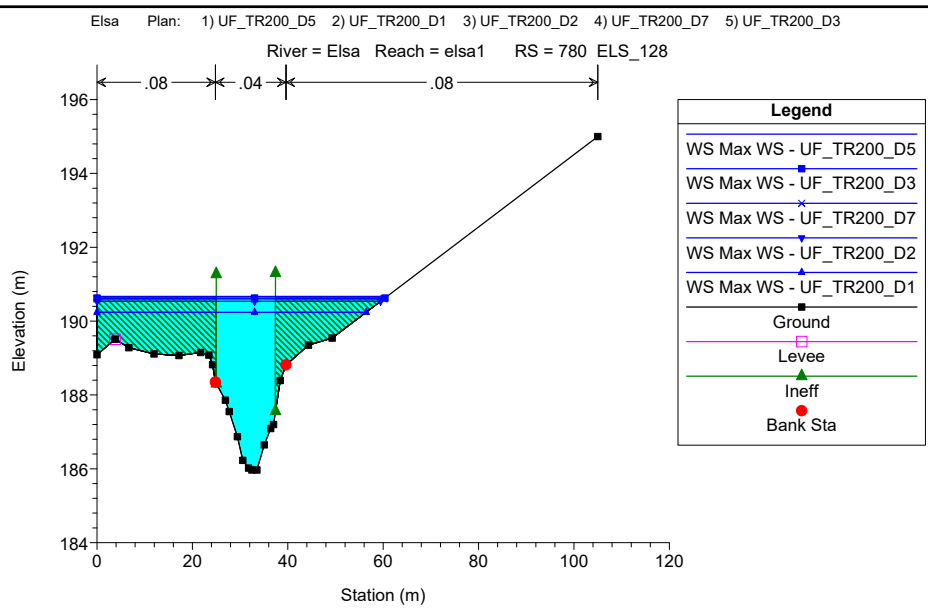
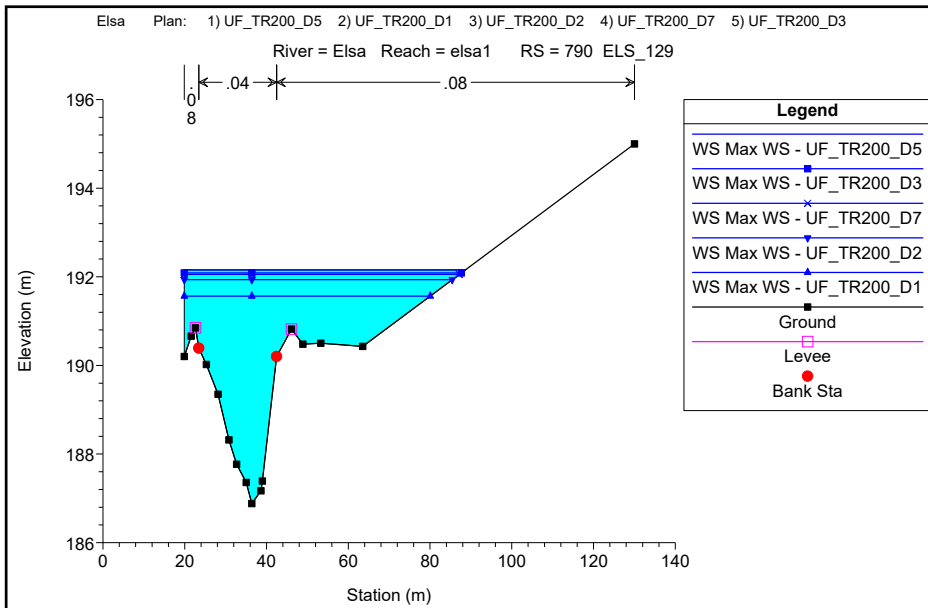
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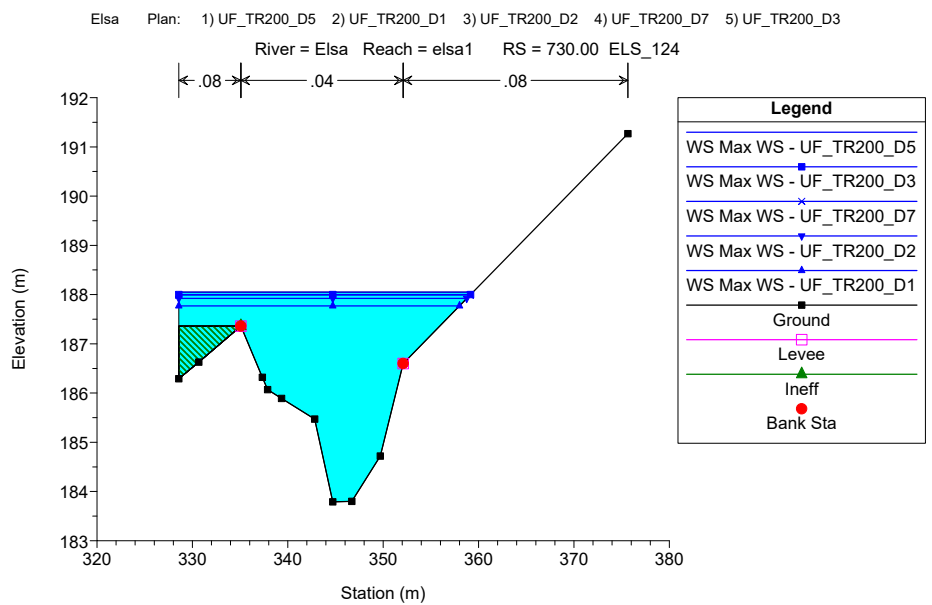
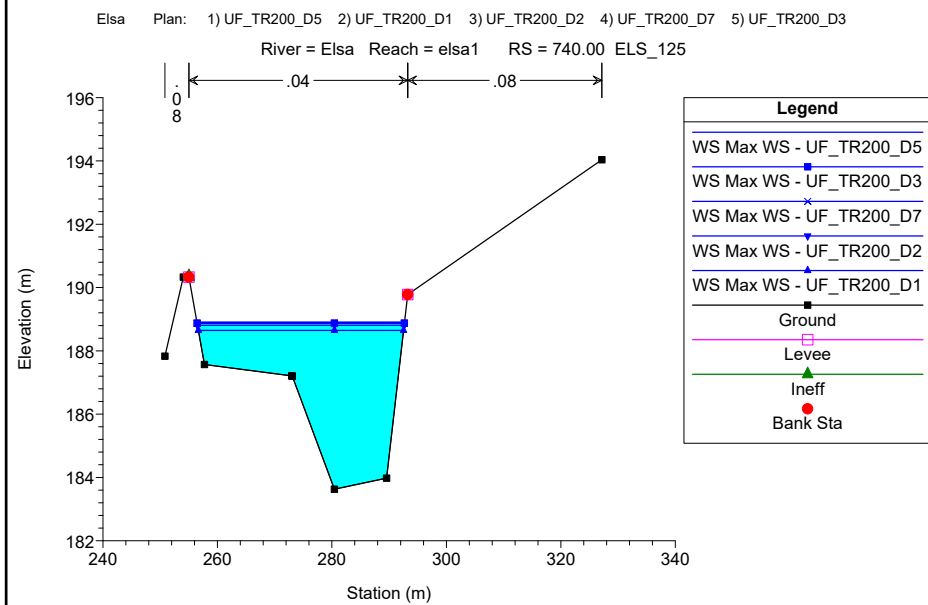
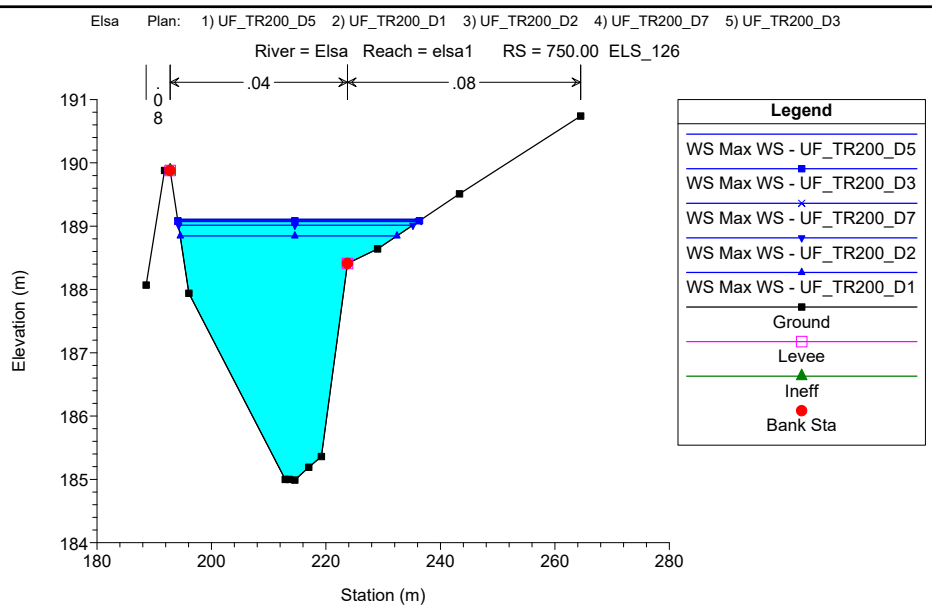
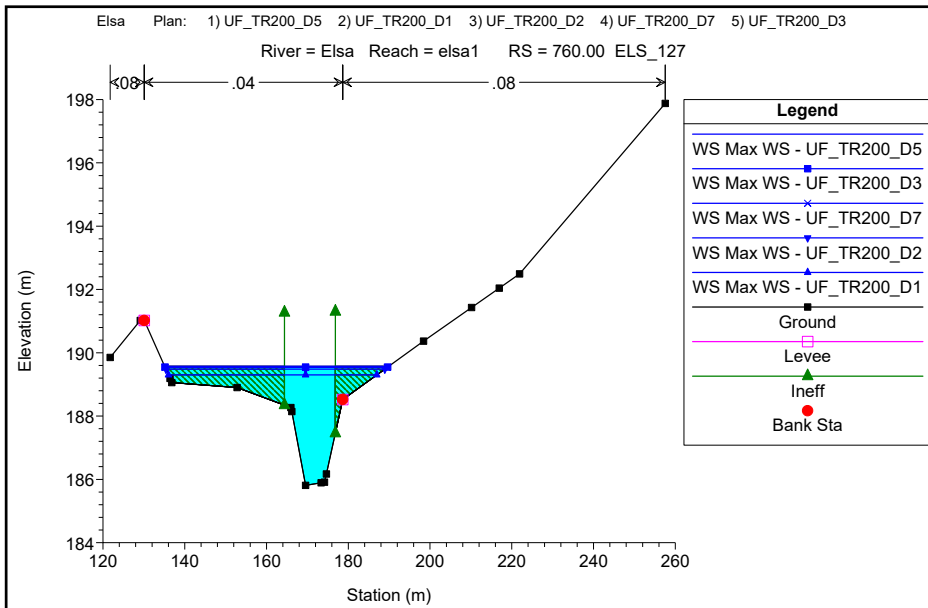
MODELLAZIONE PER TR=200 anni

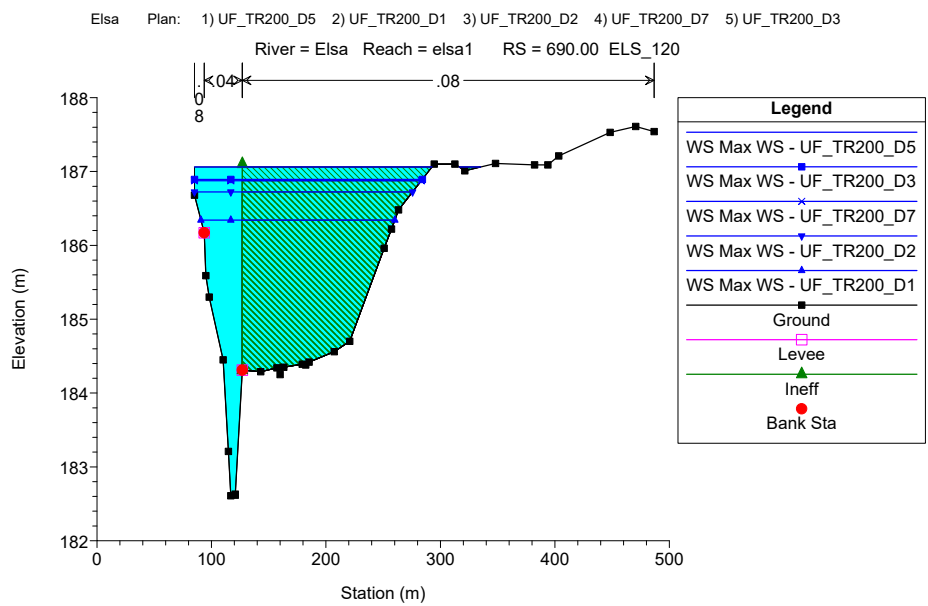
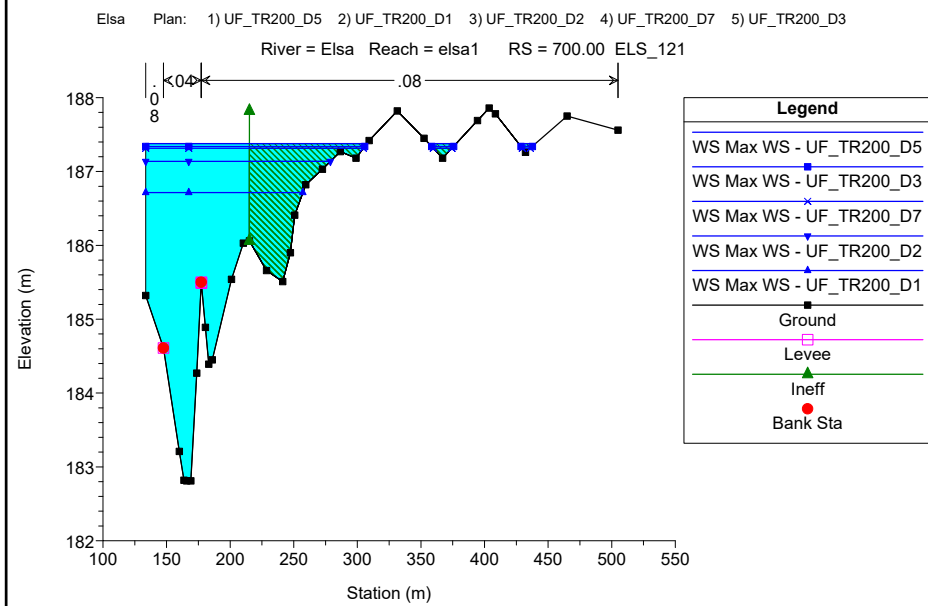
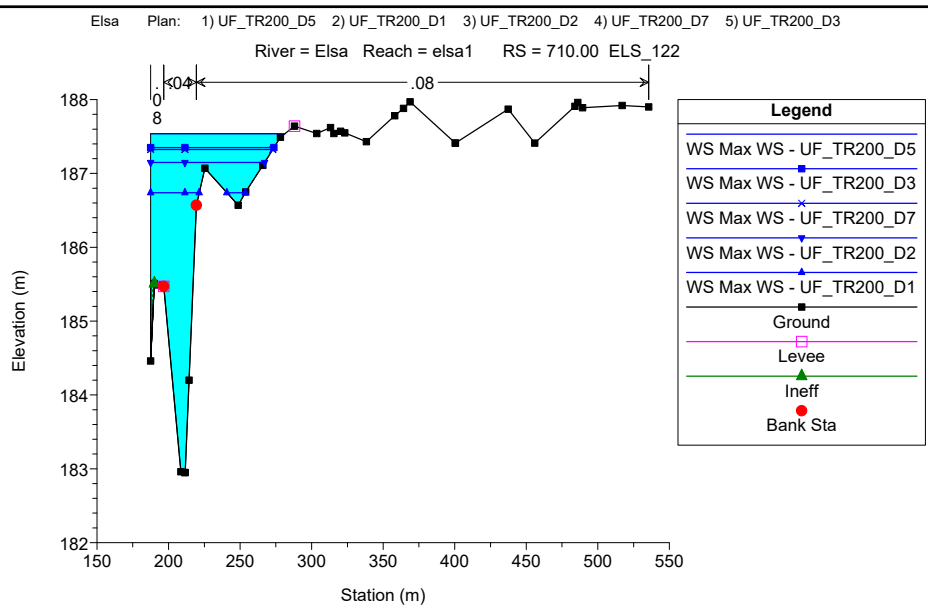
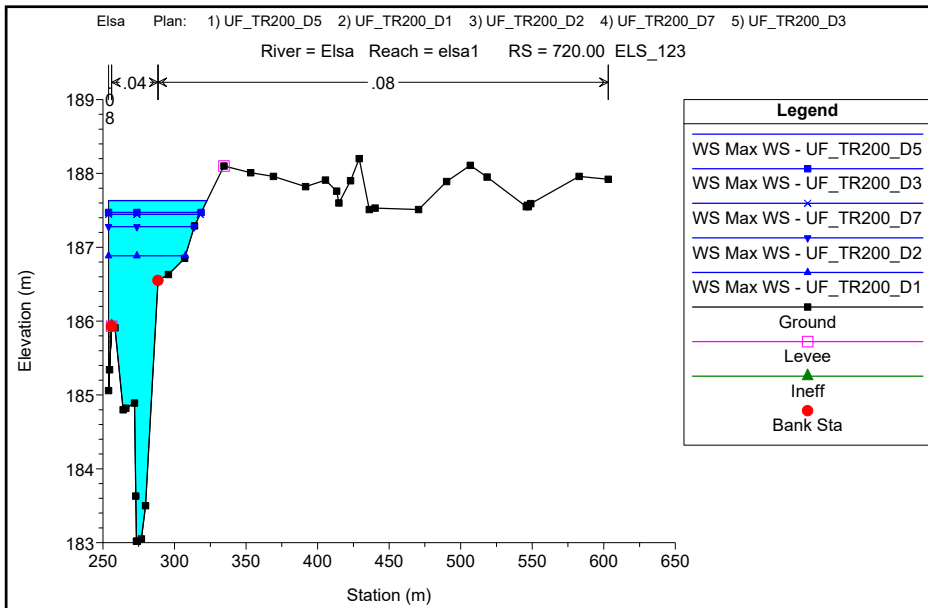
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

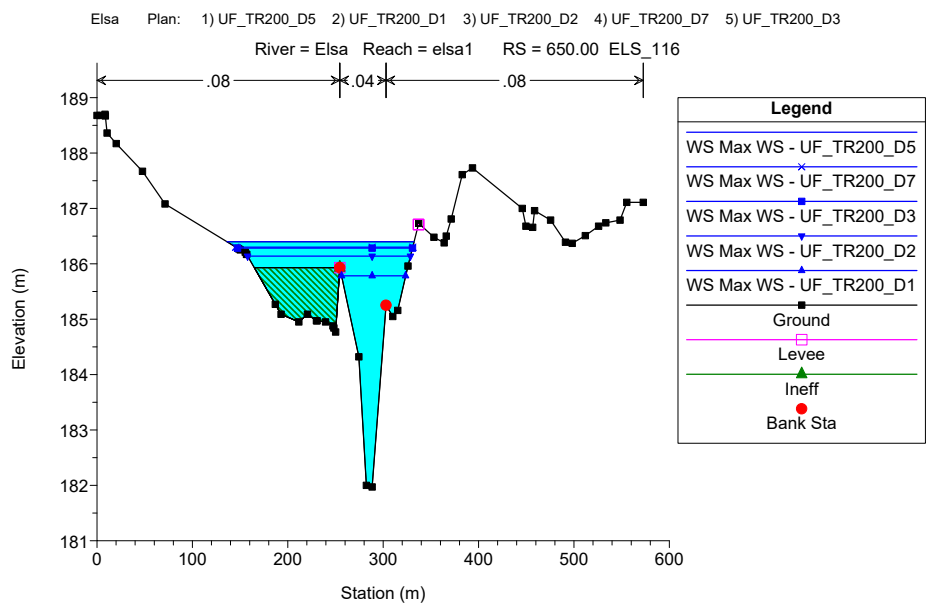
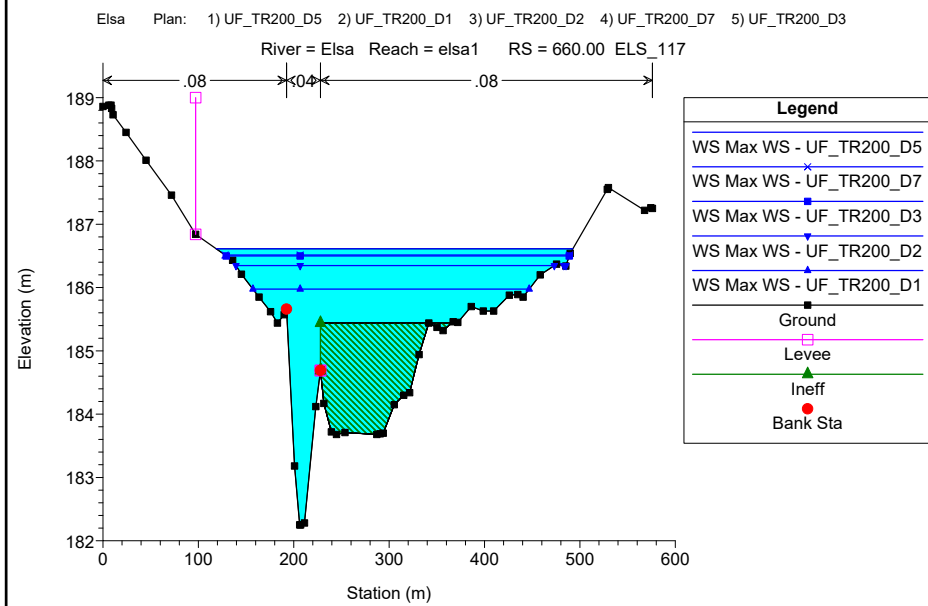
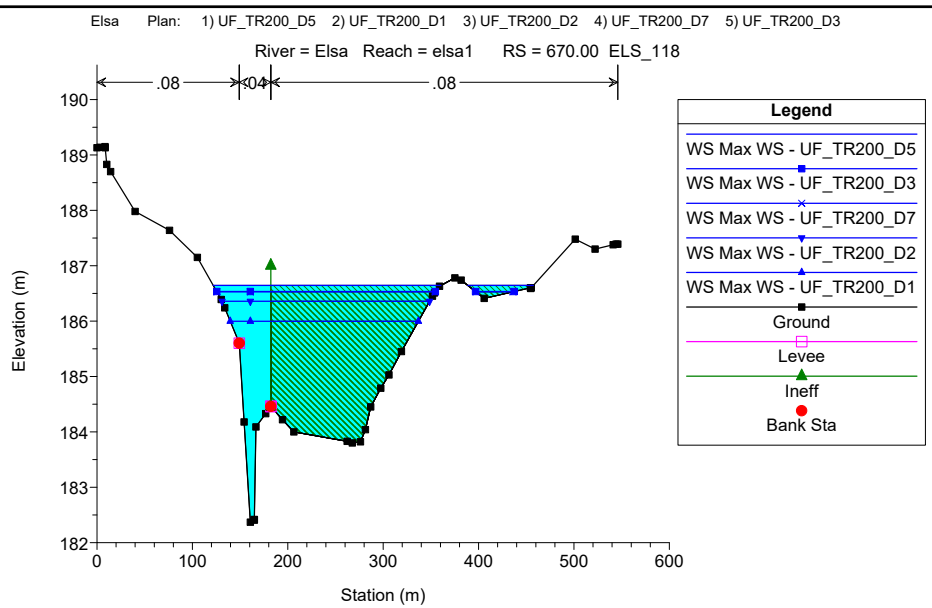
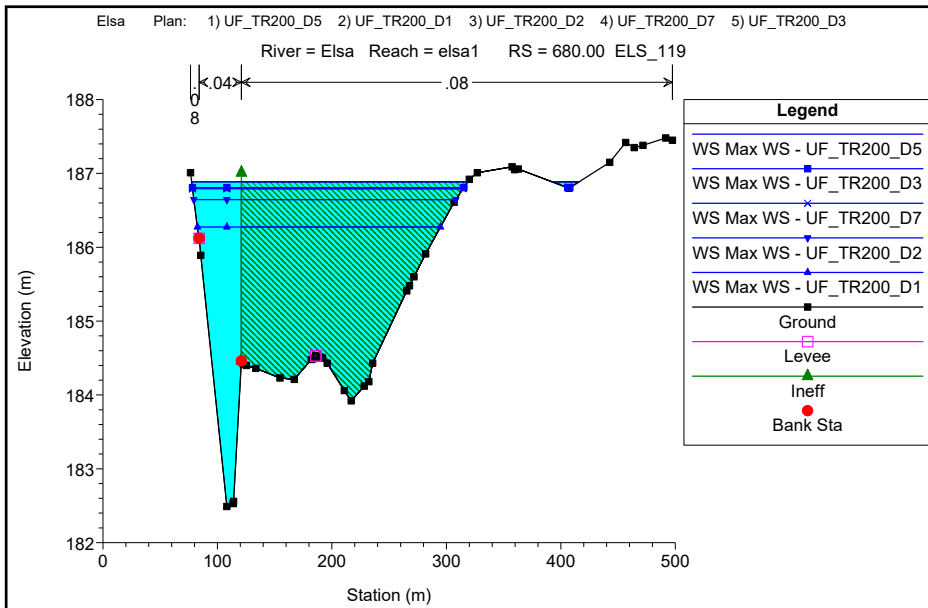
Sezioni Trasversali (da monte verso valle)

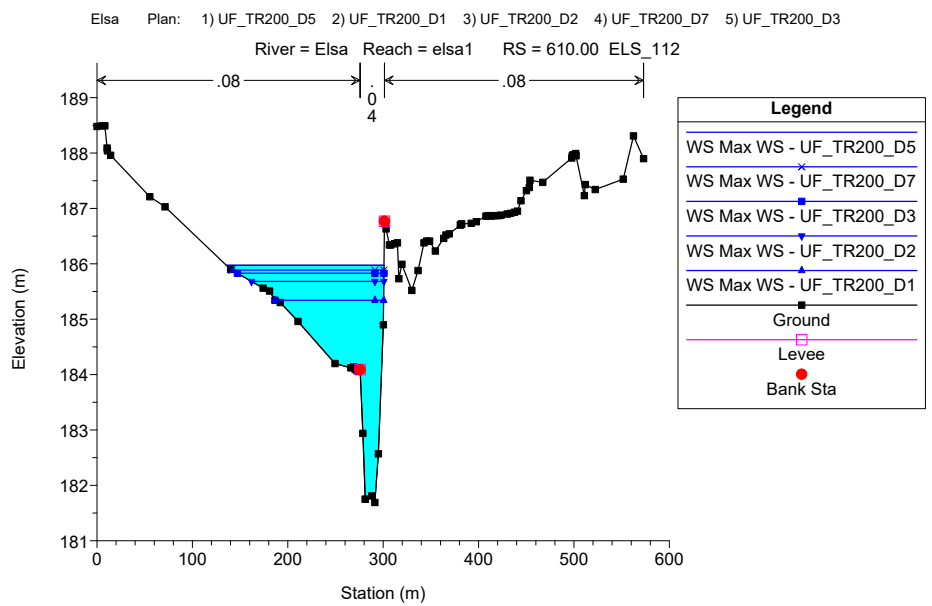
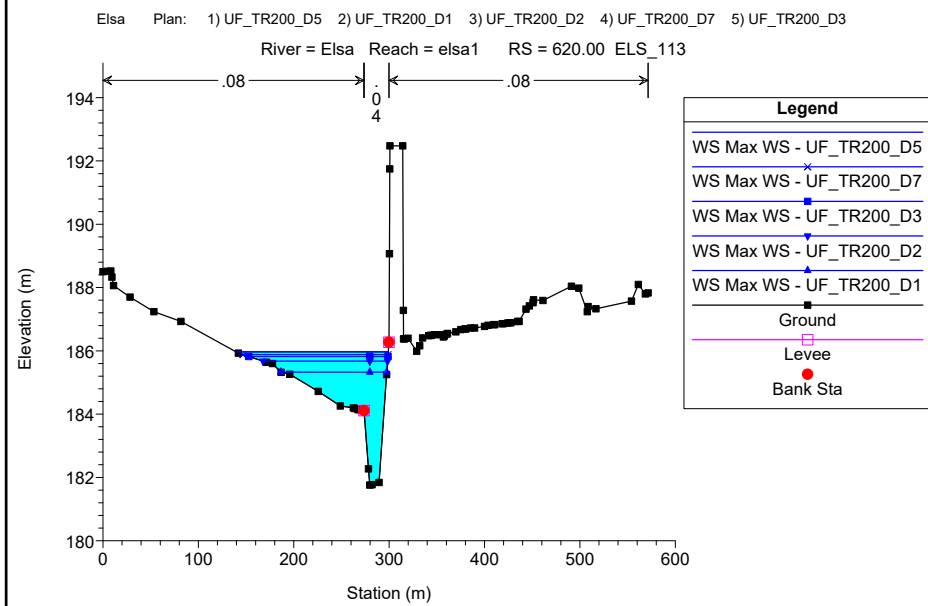
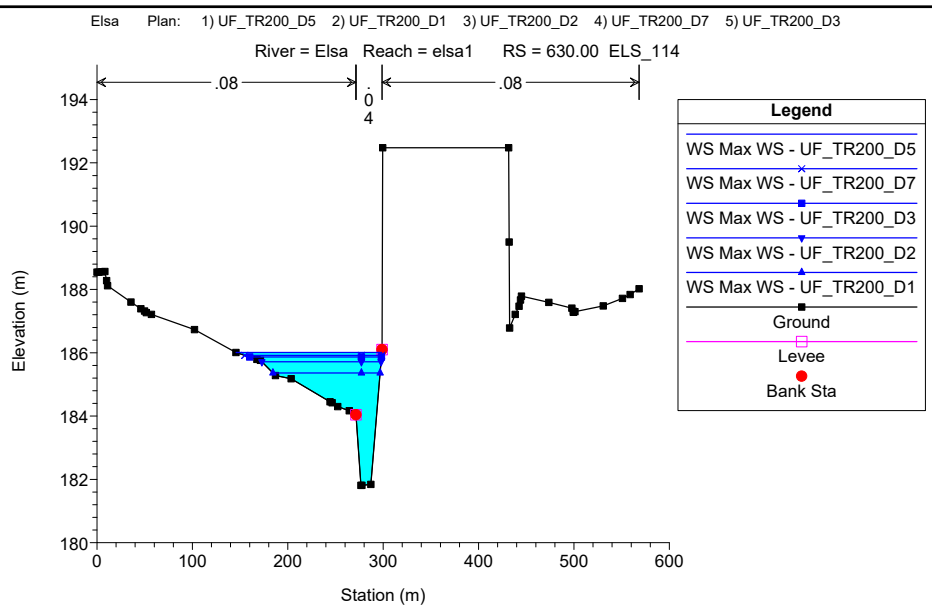
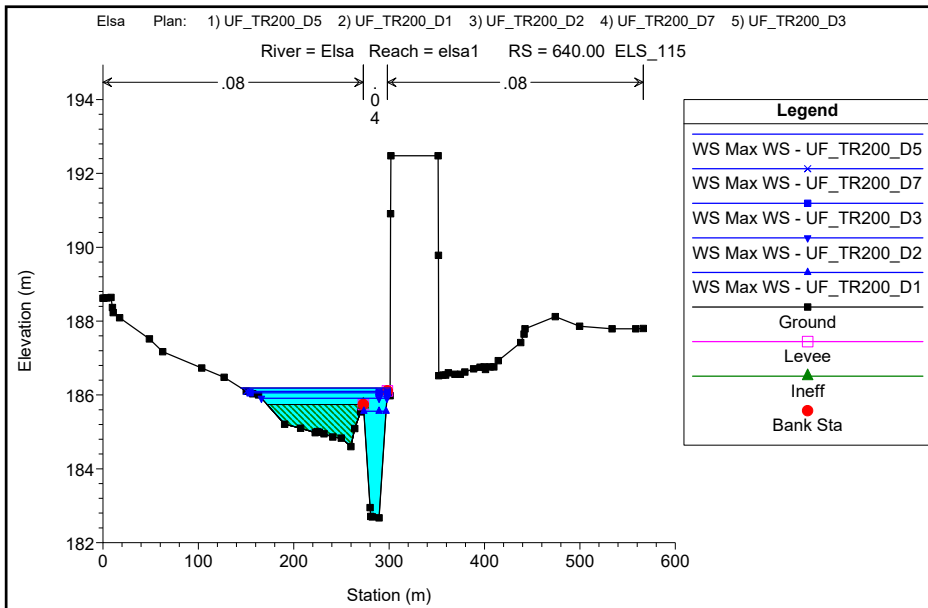


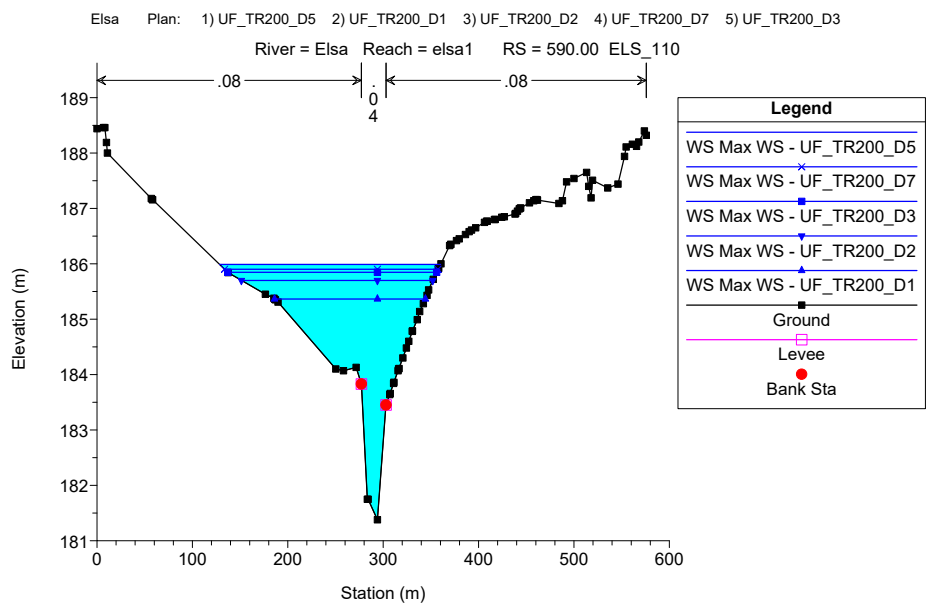
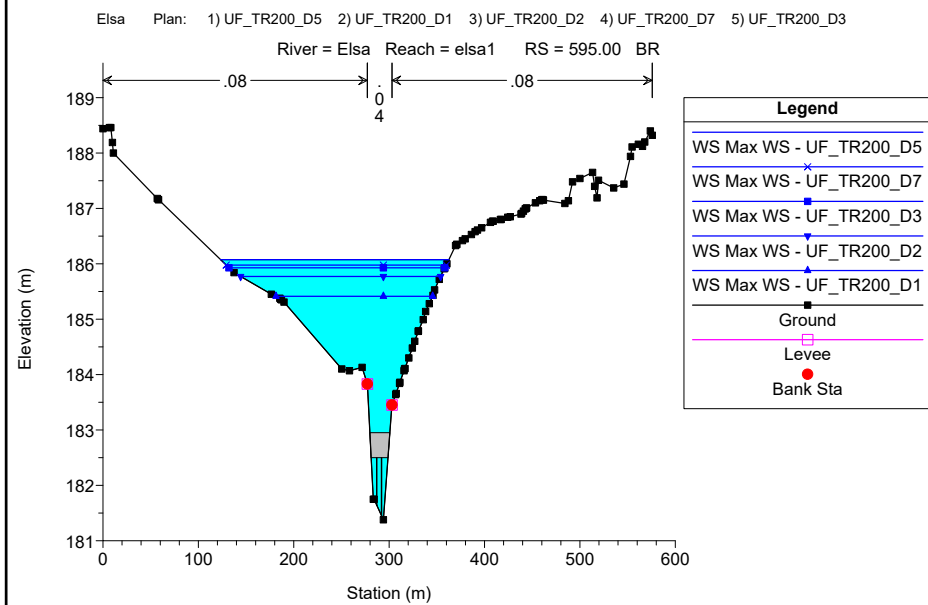
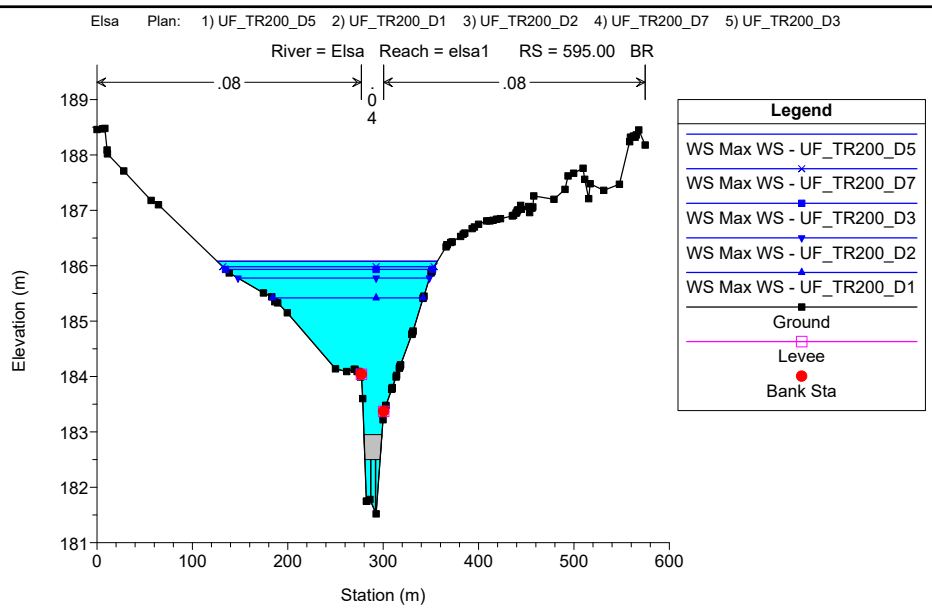
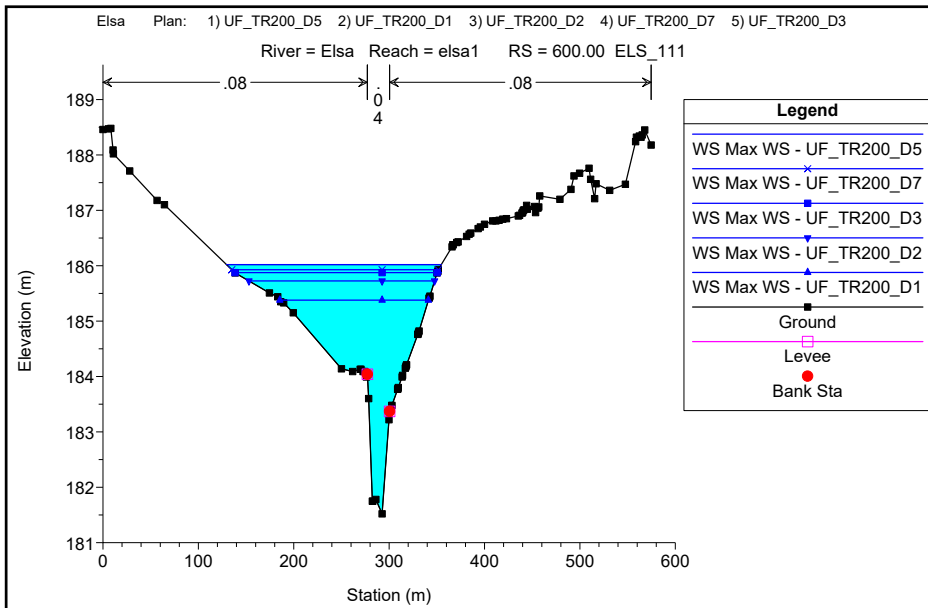


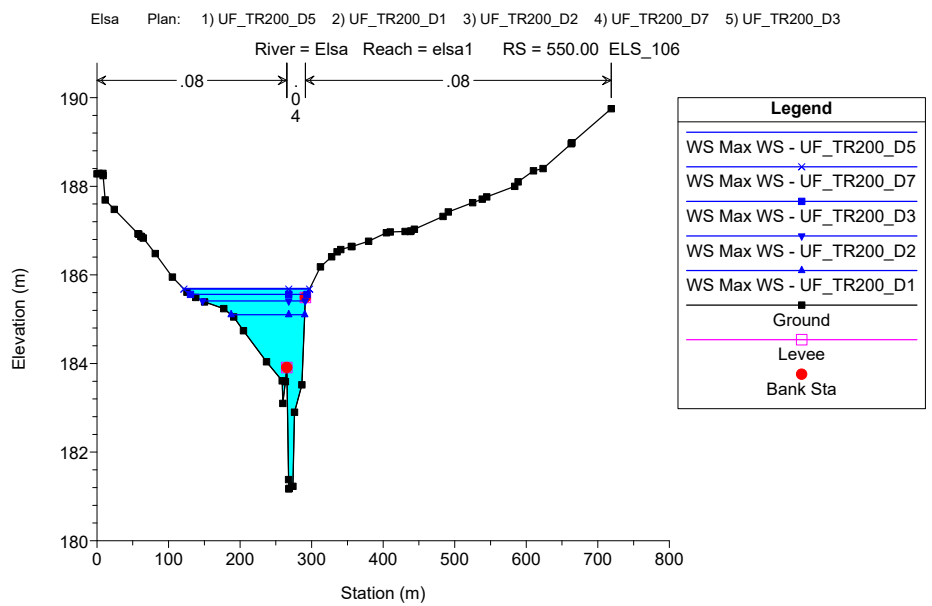
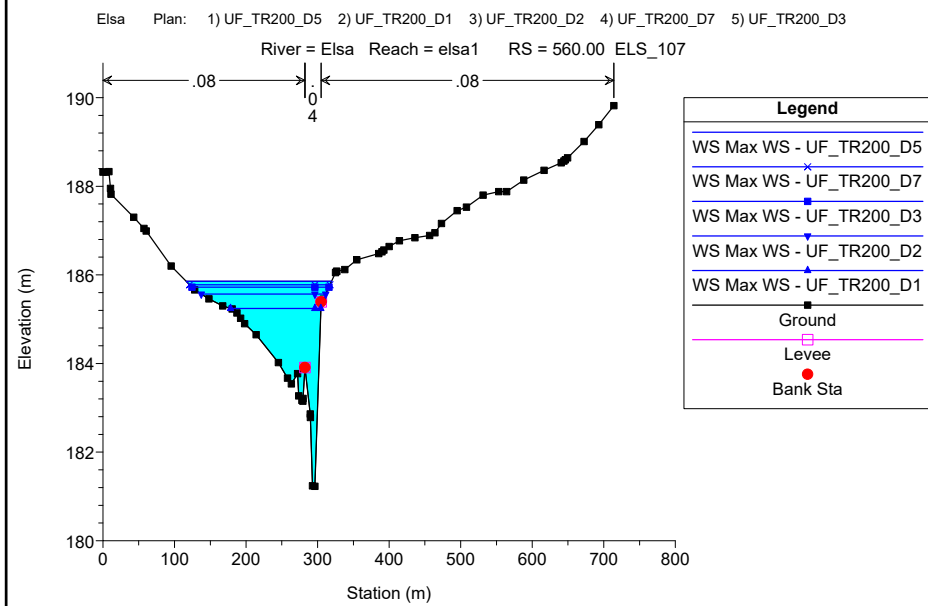
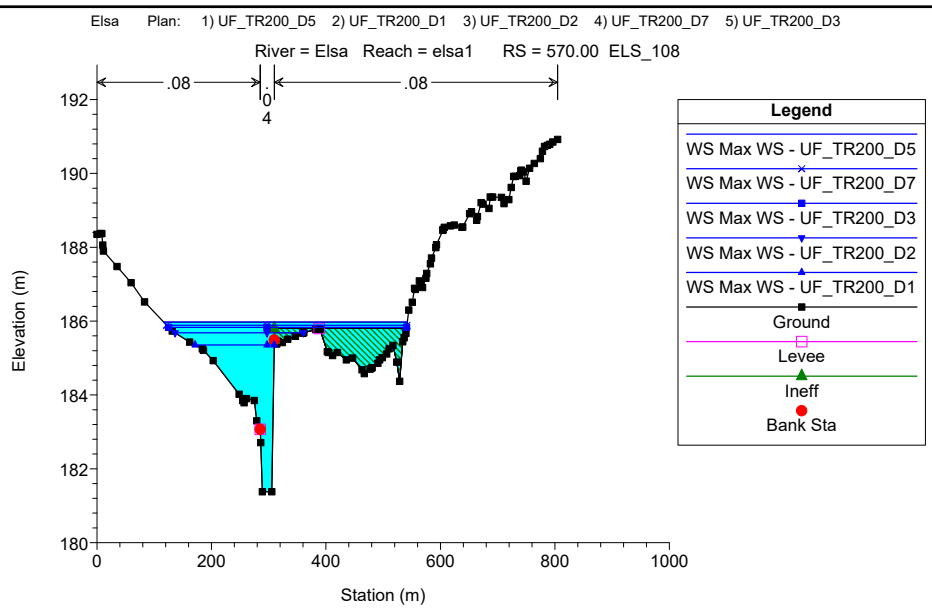
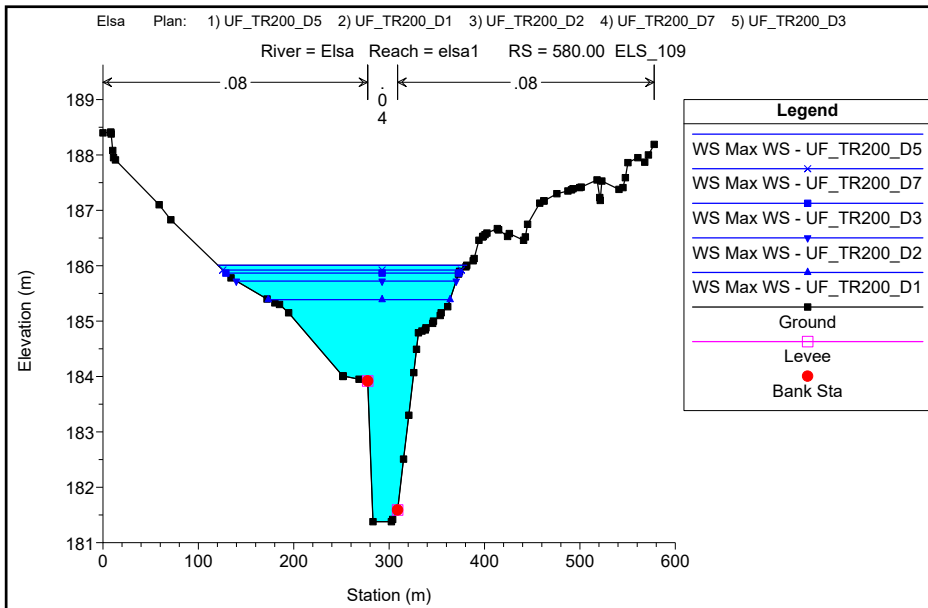


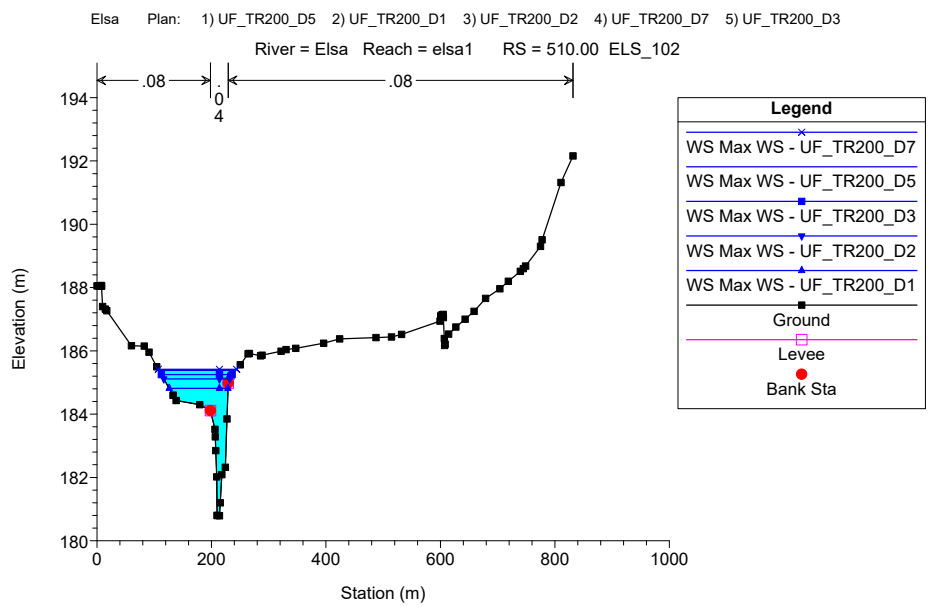
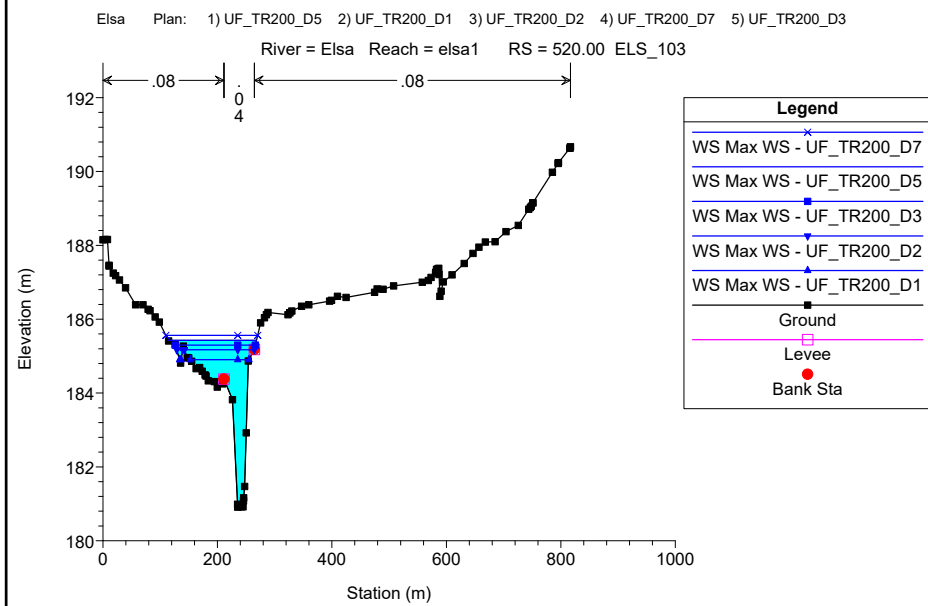
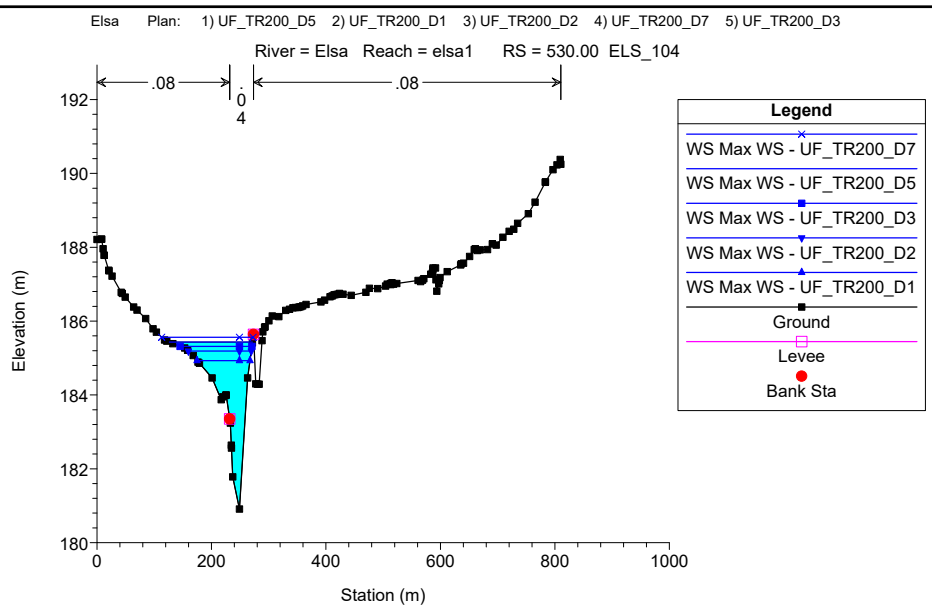
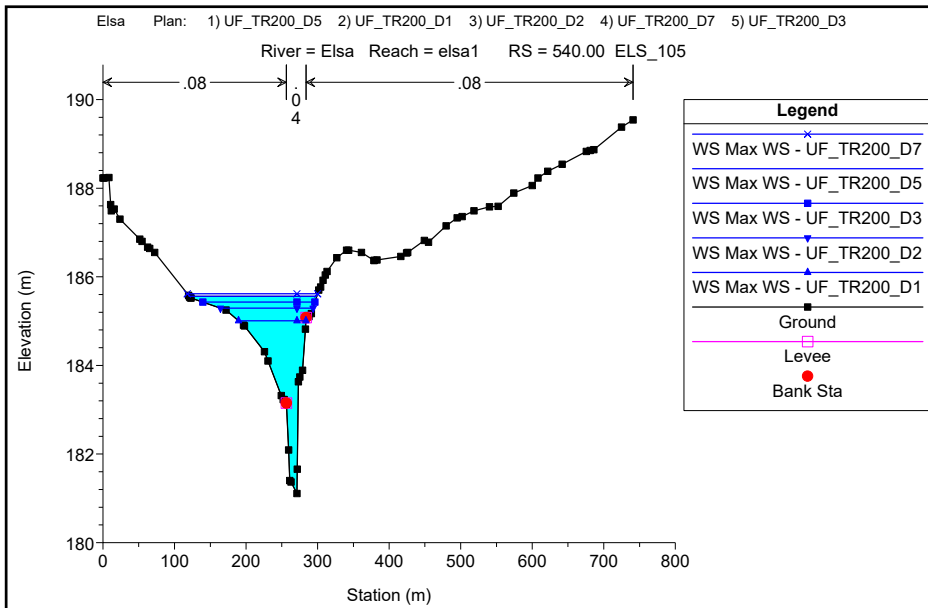


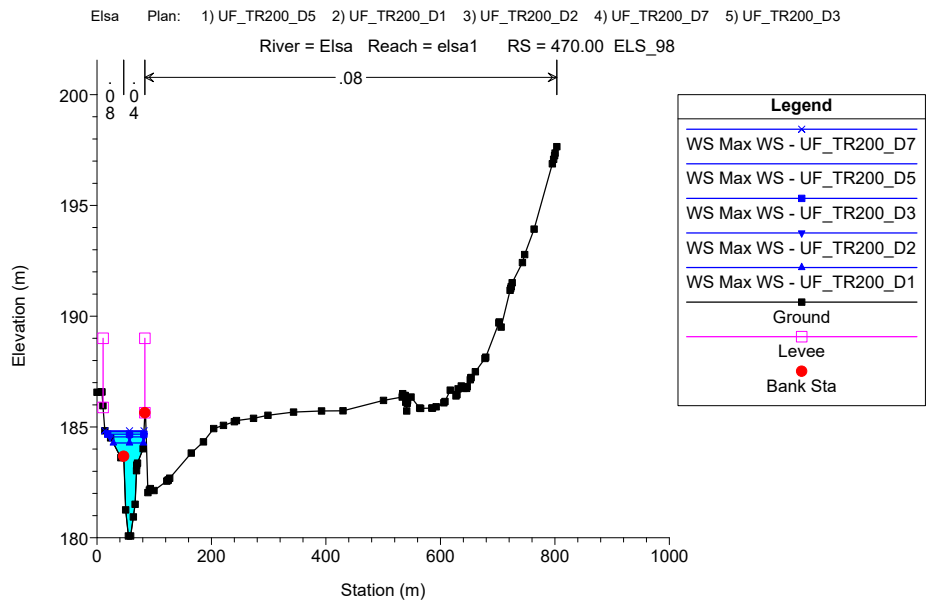
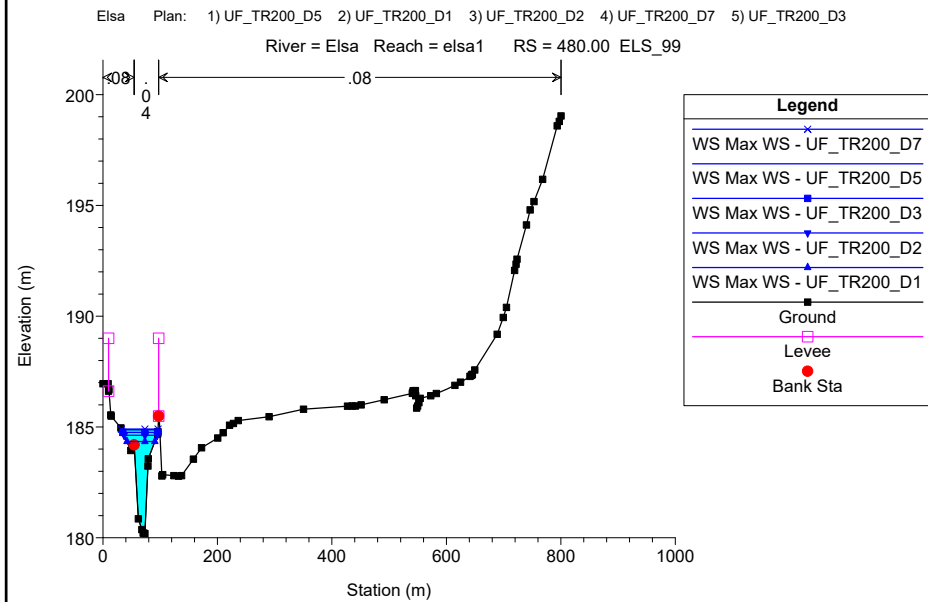
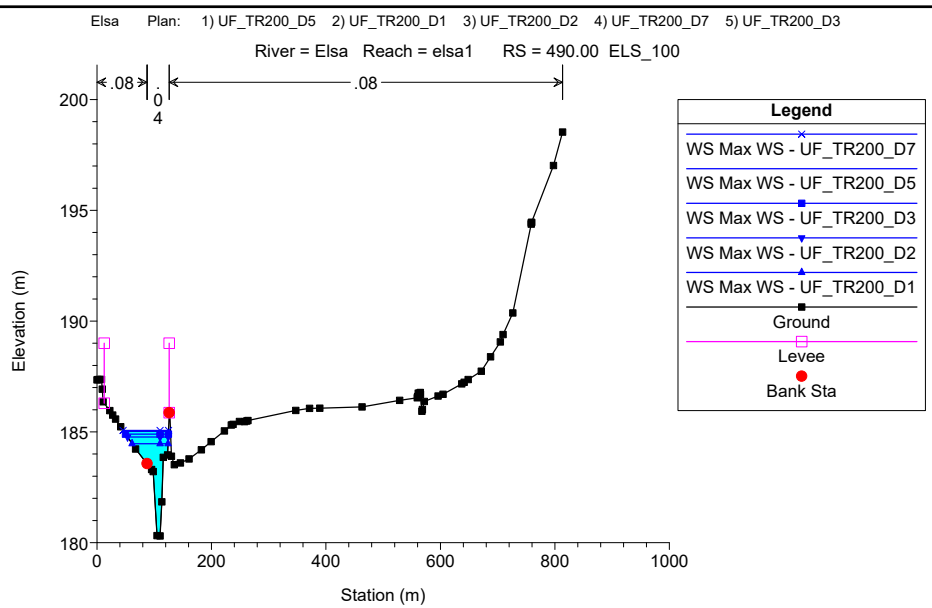
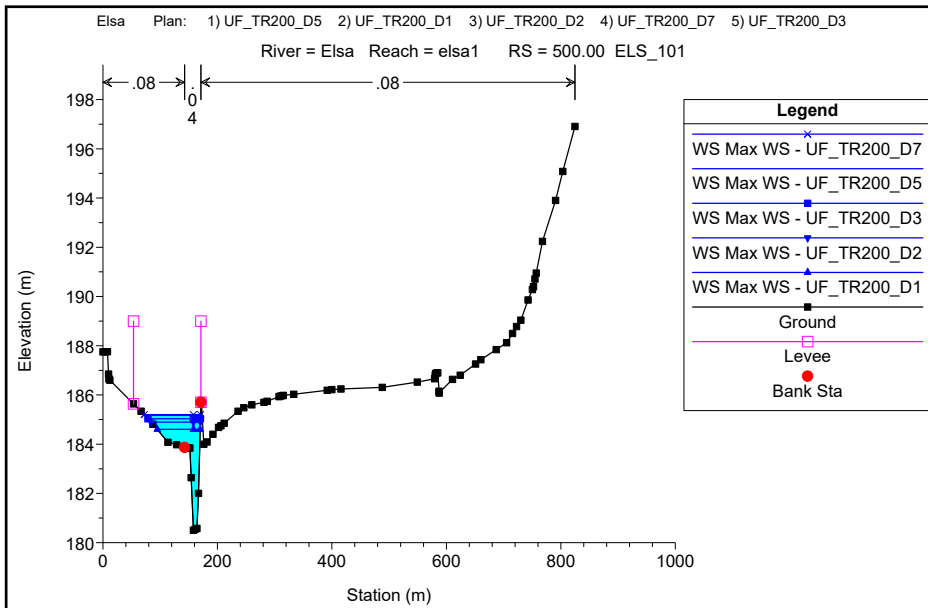


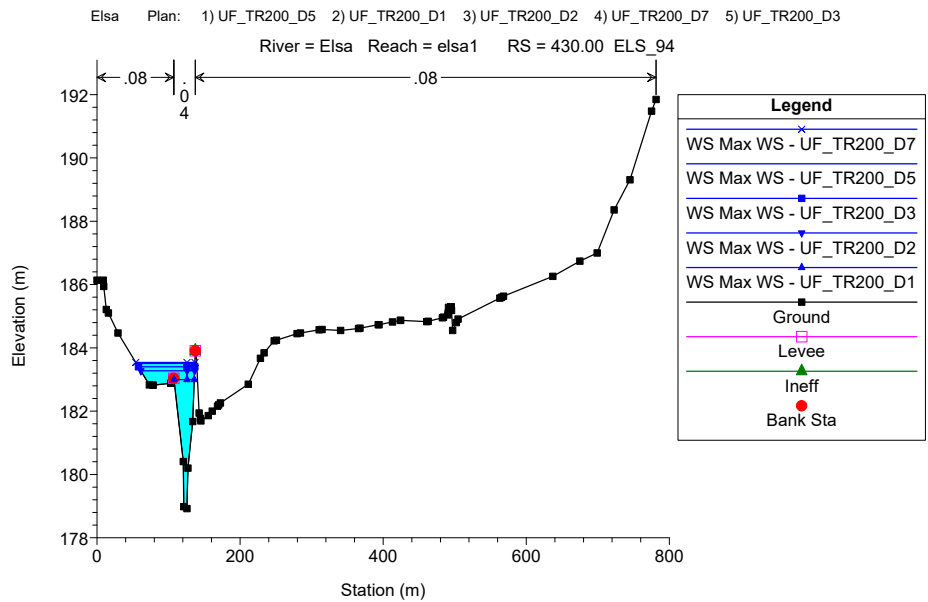
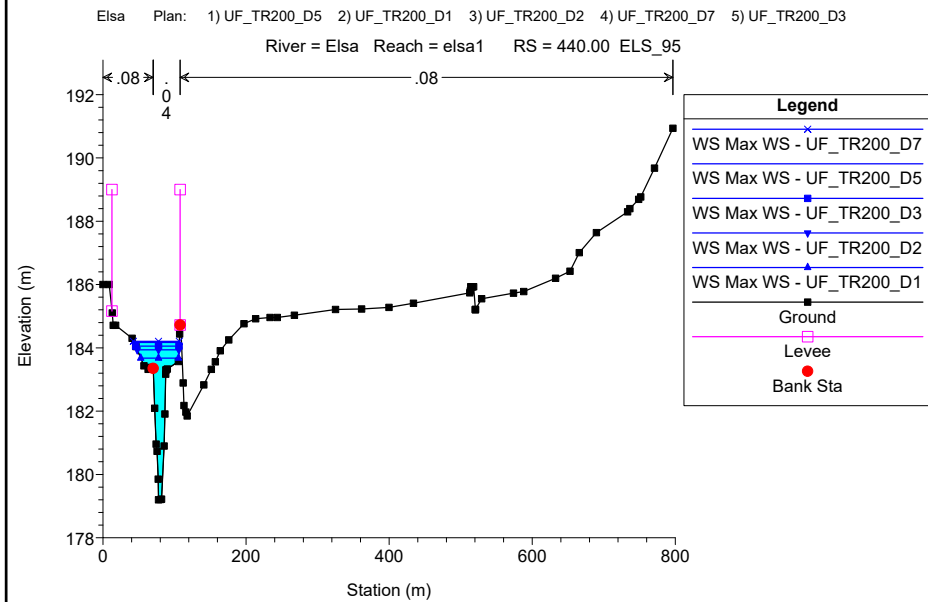
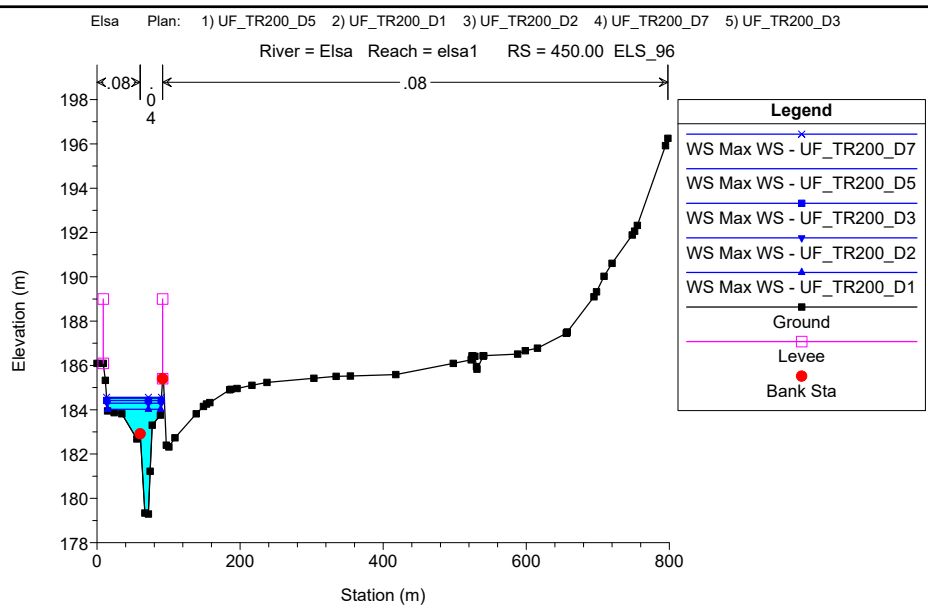
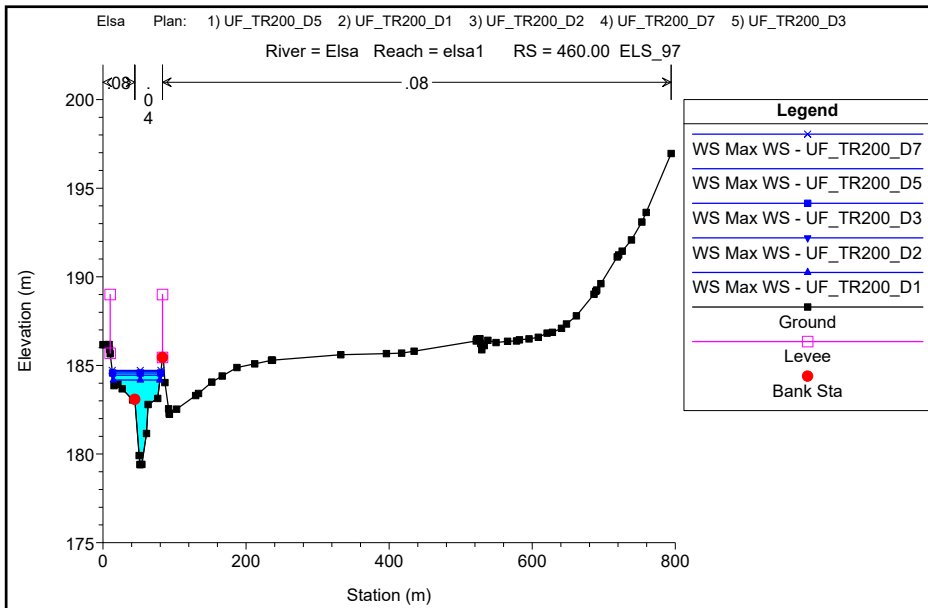


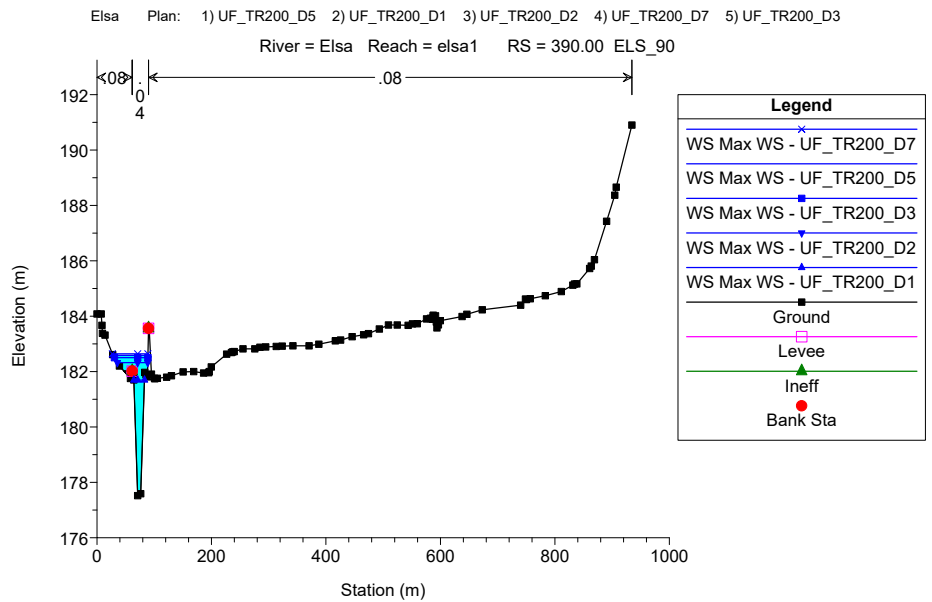
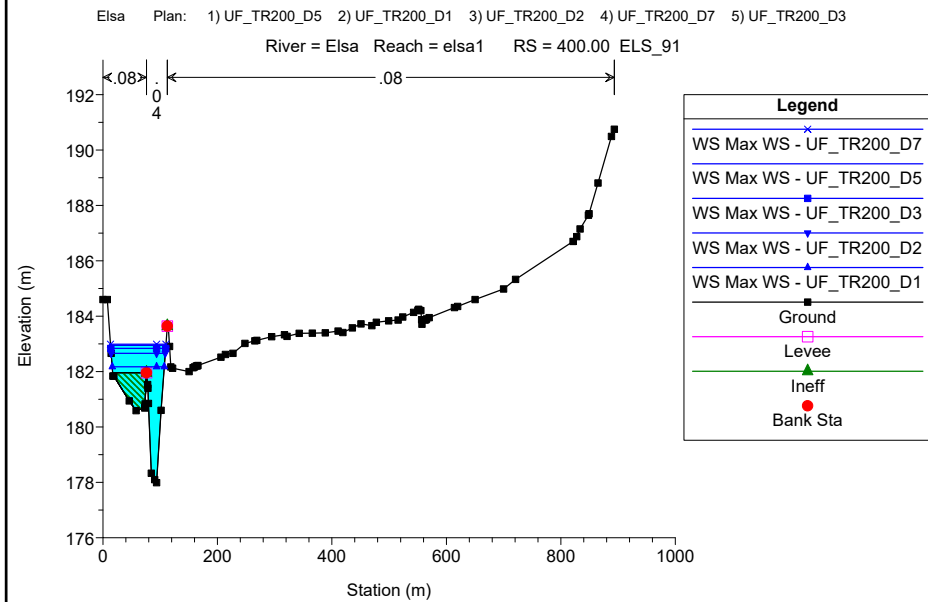
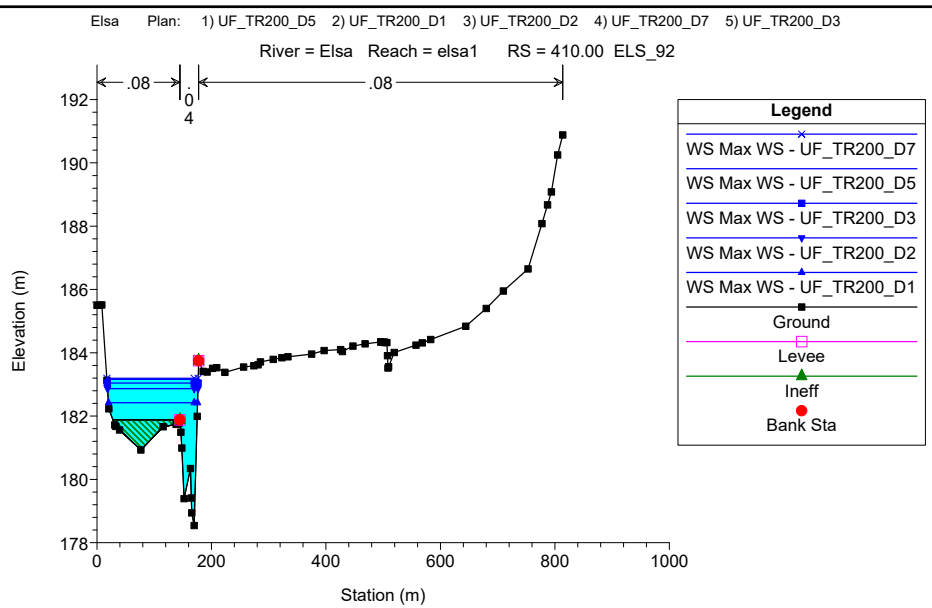
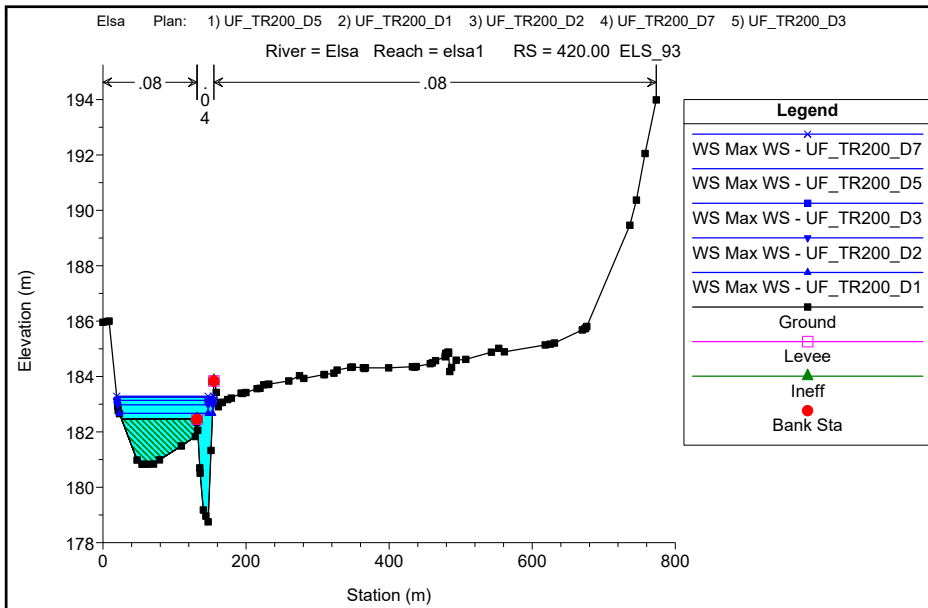


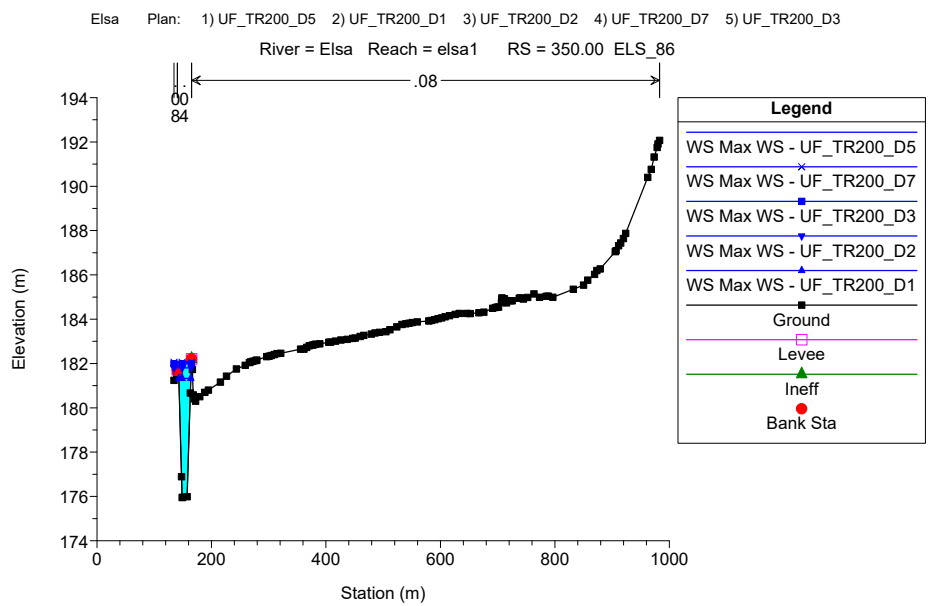
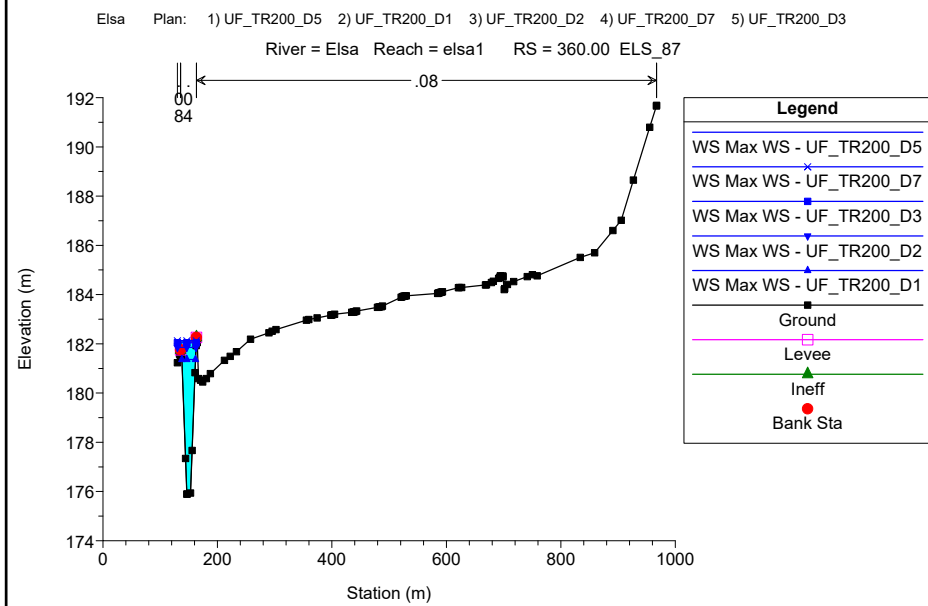
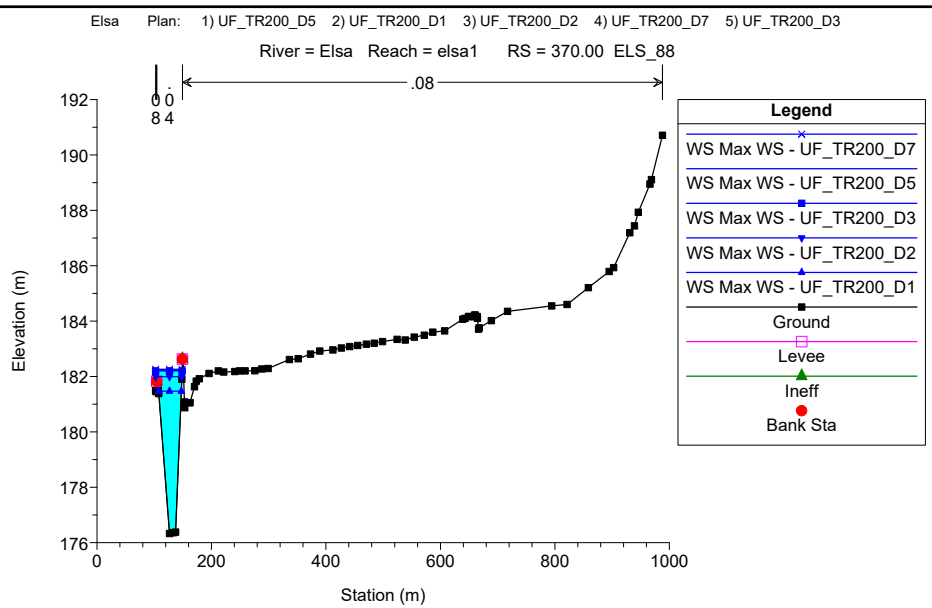
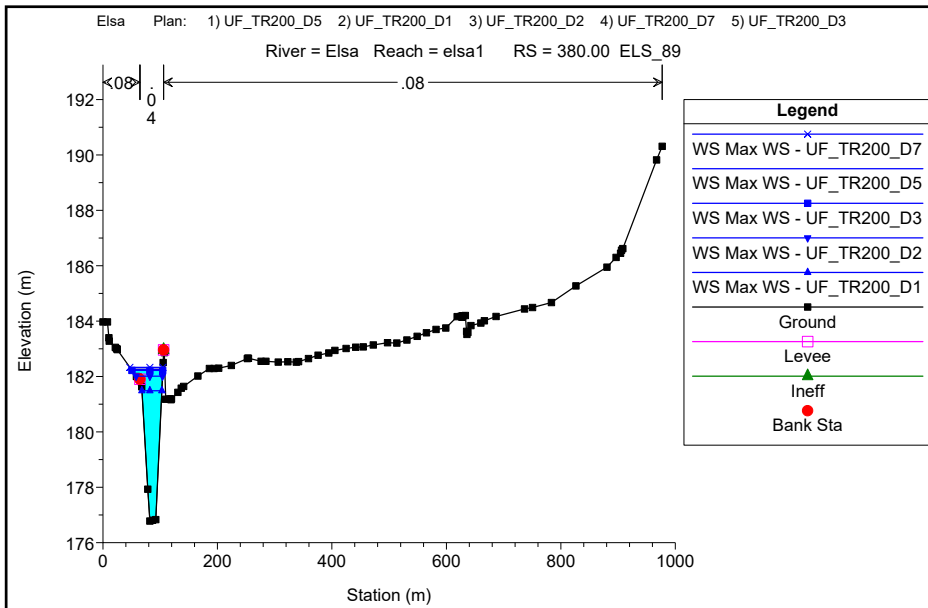


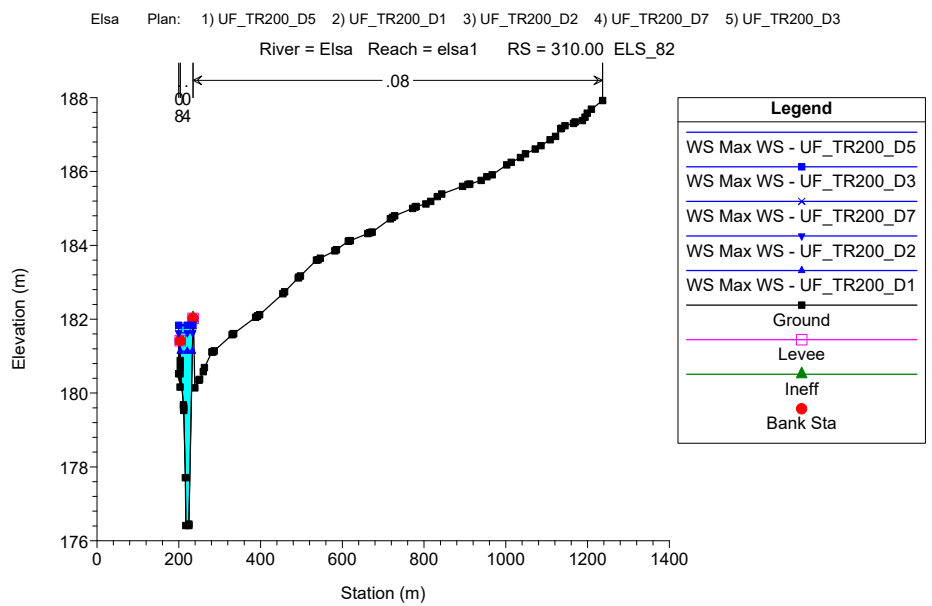
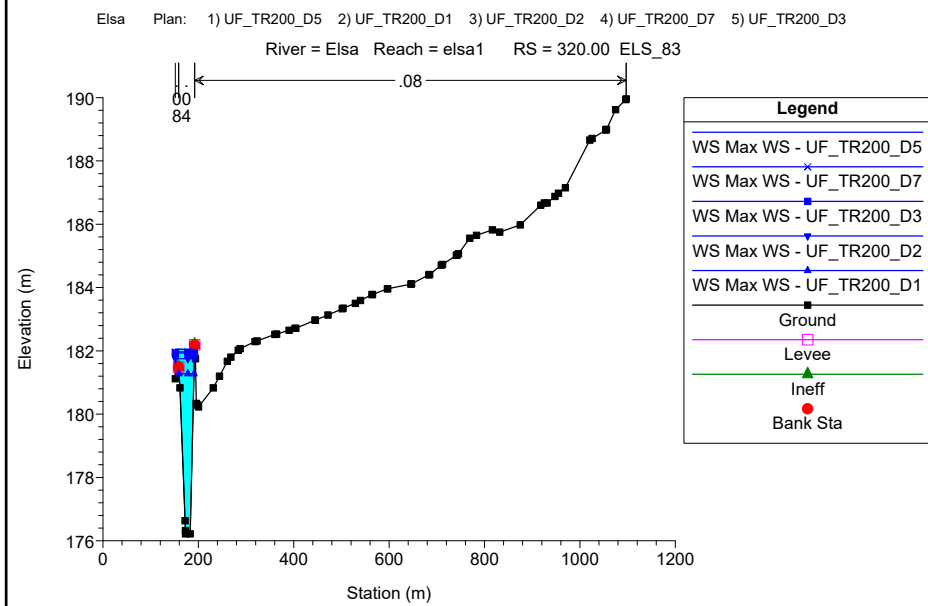
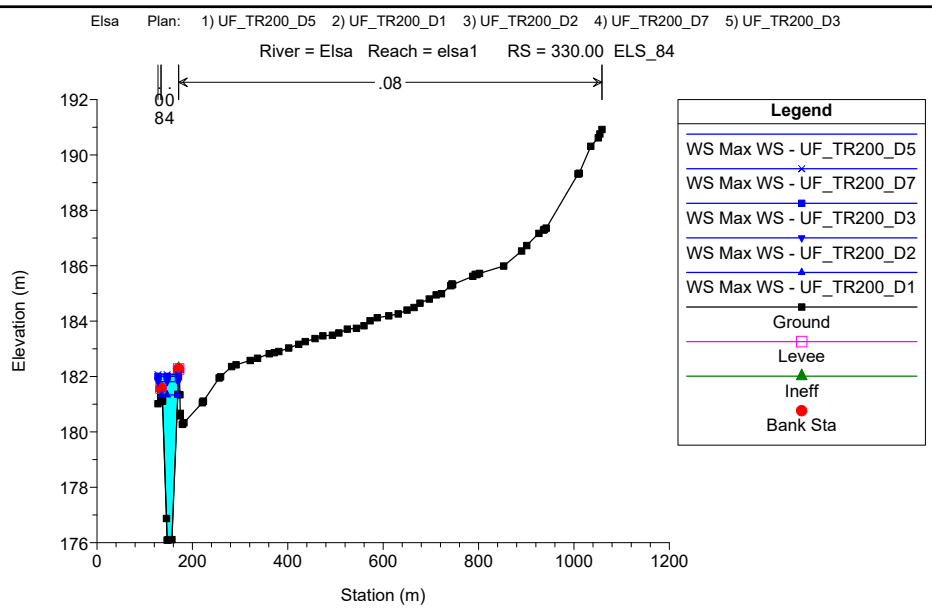
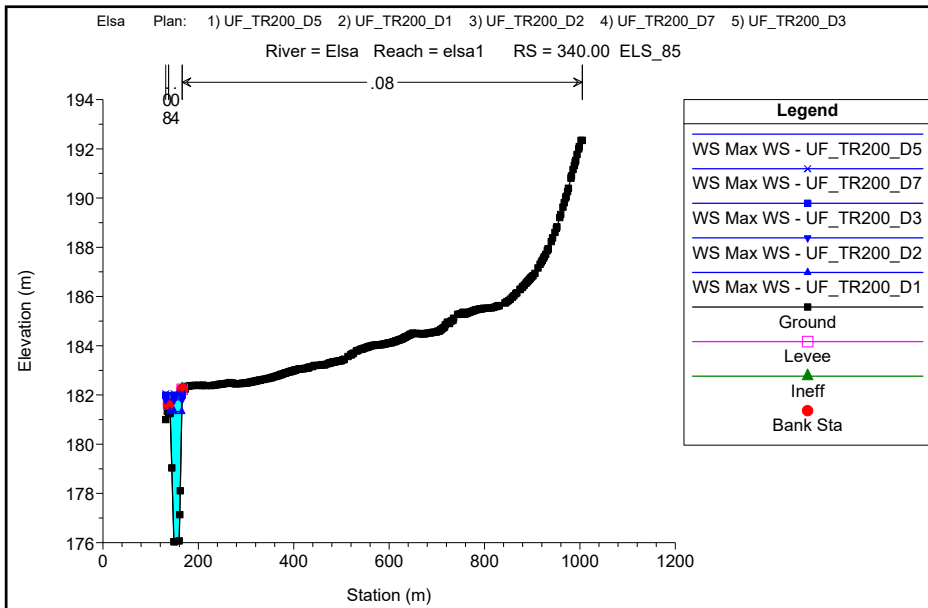


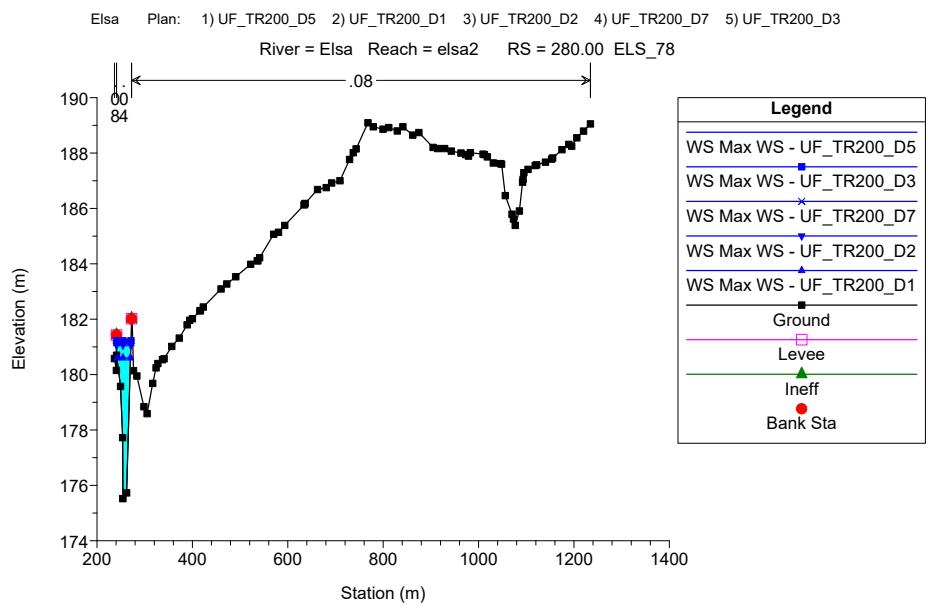
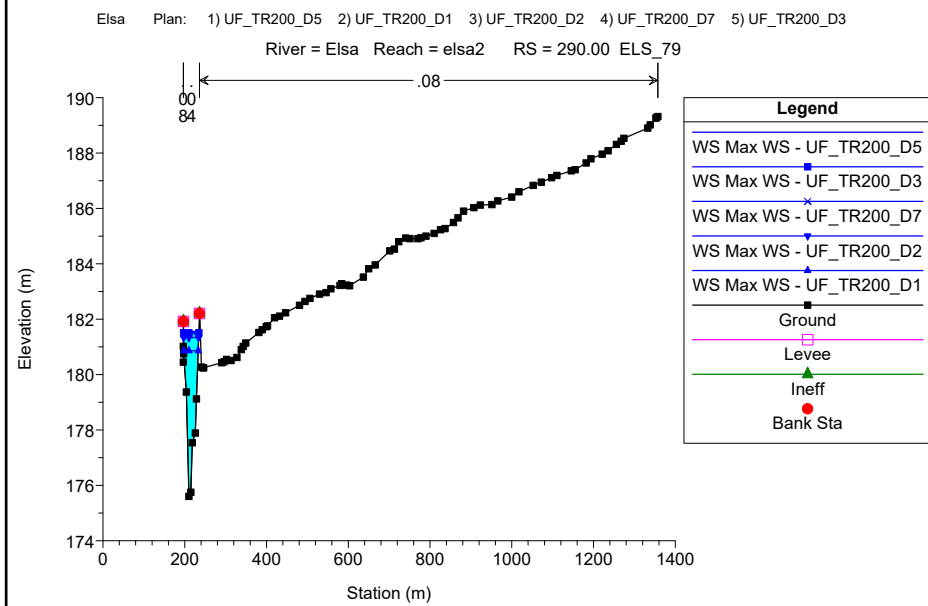
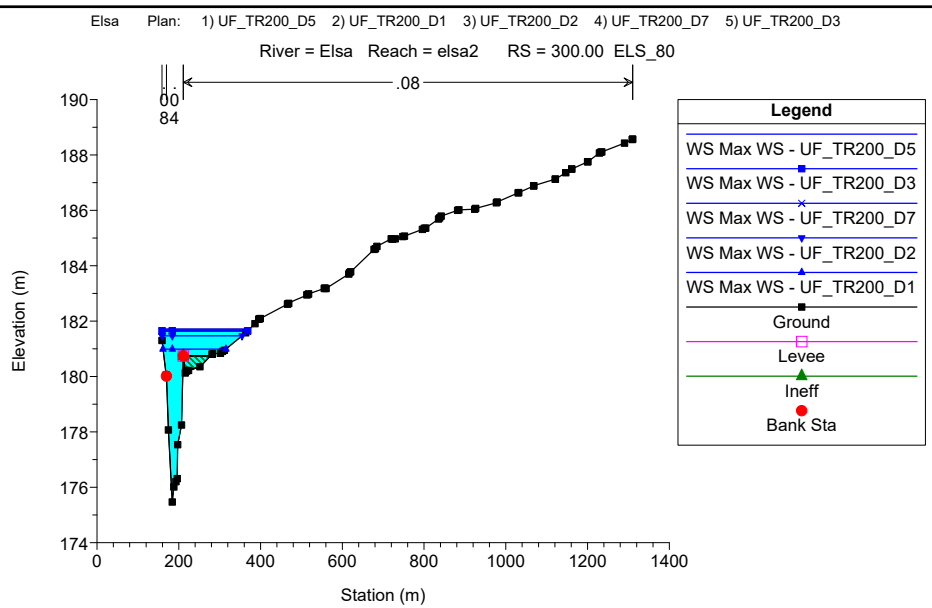
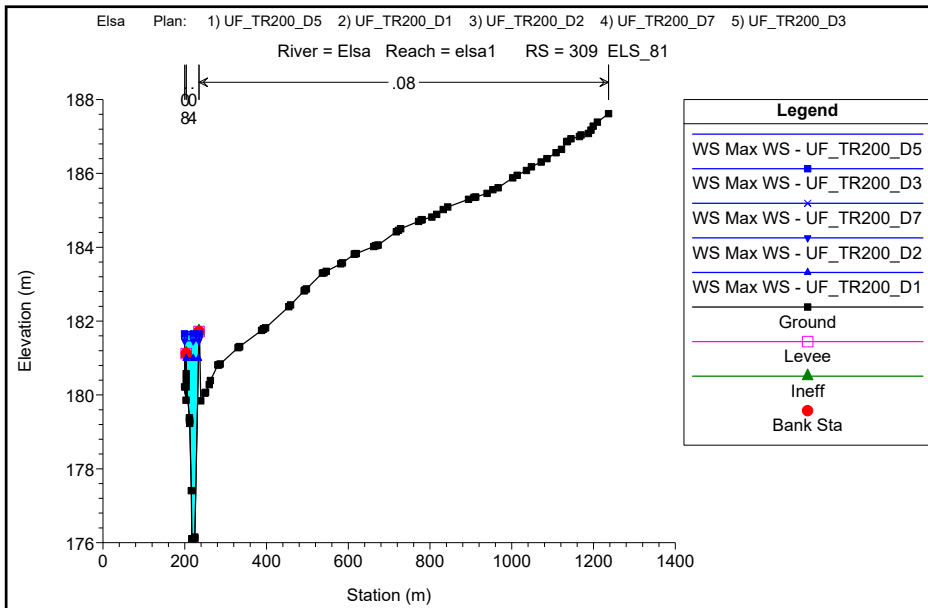


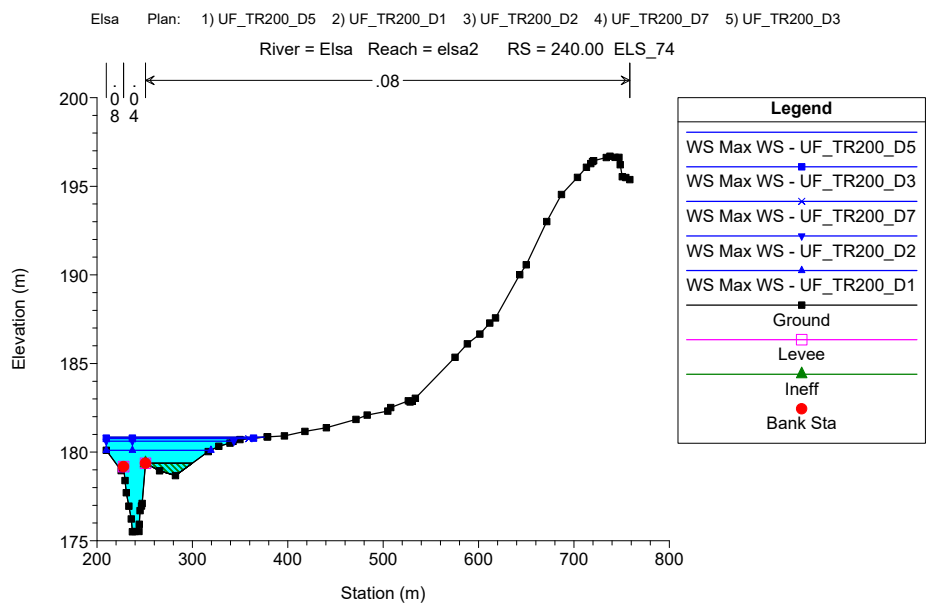
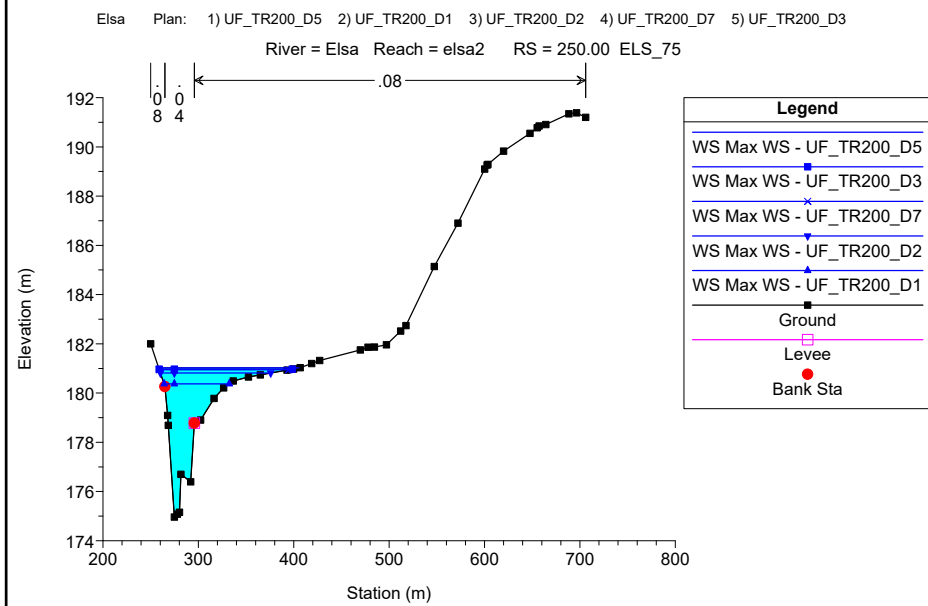
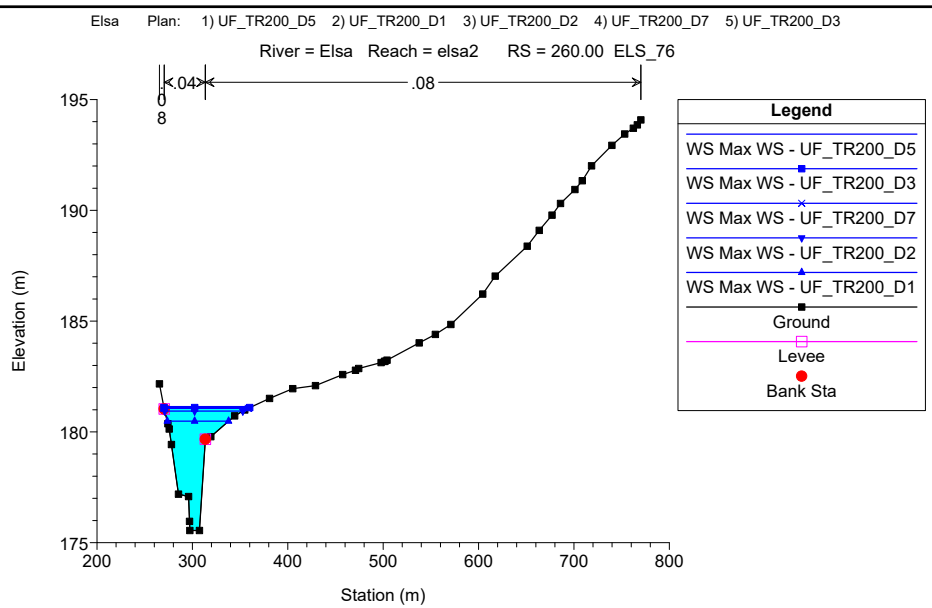
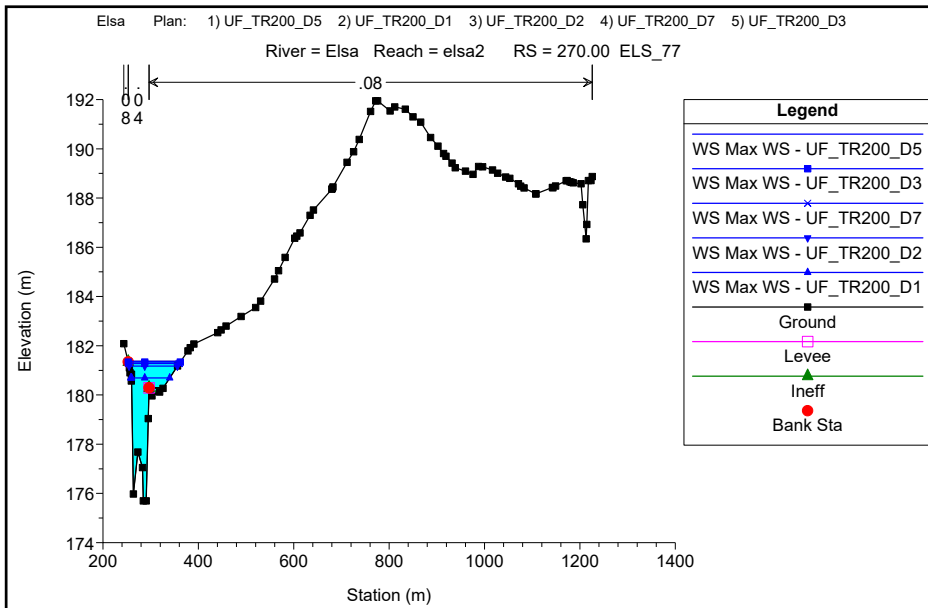


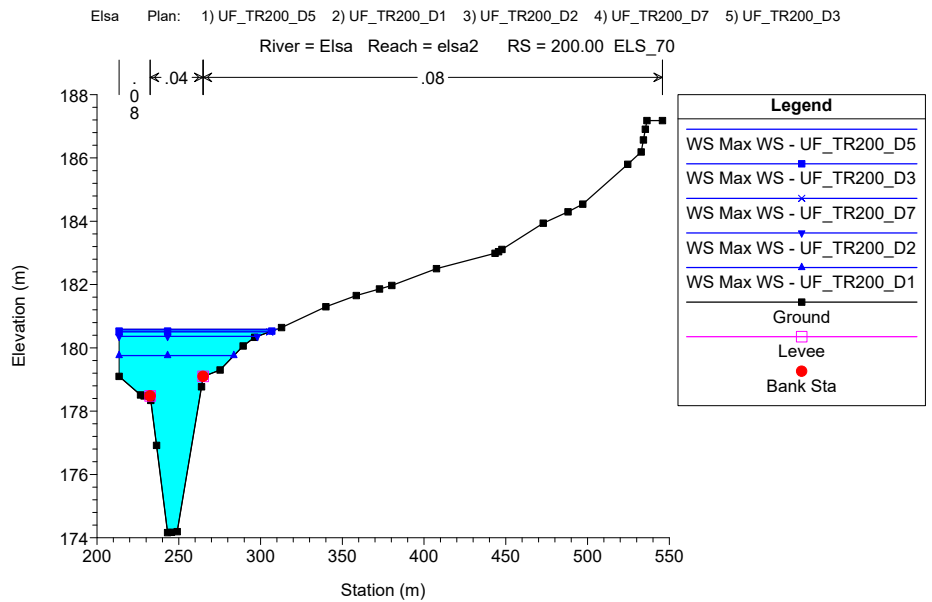
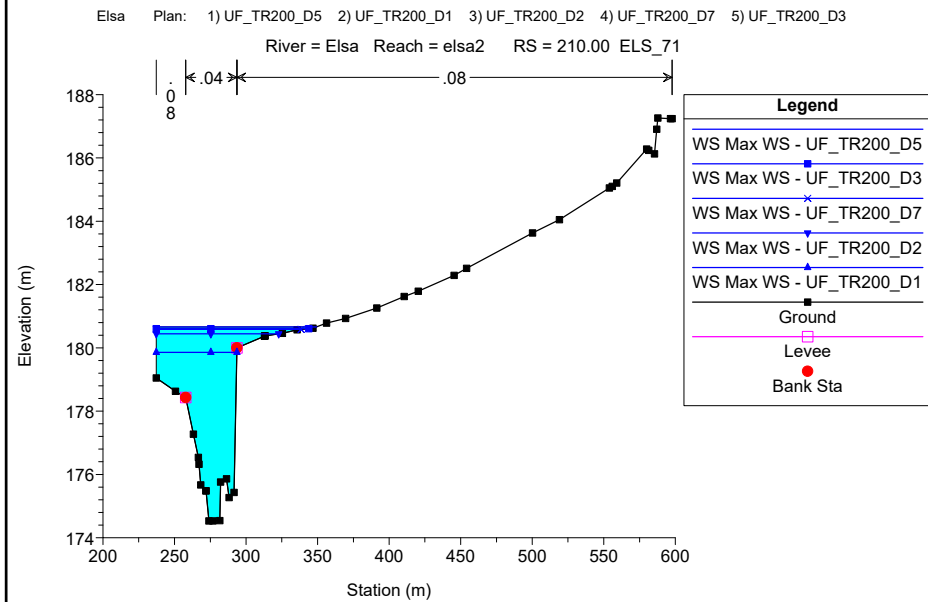
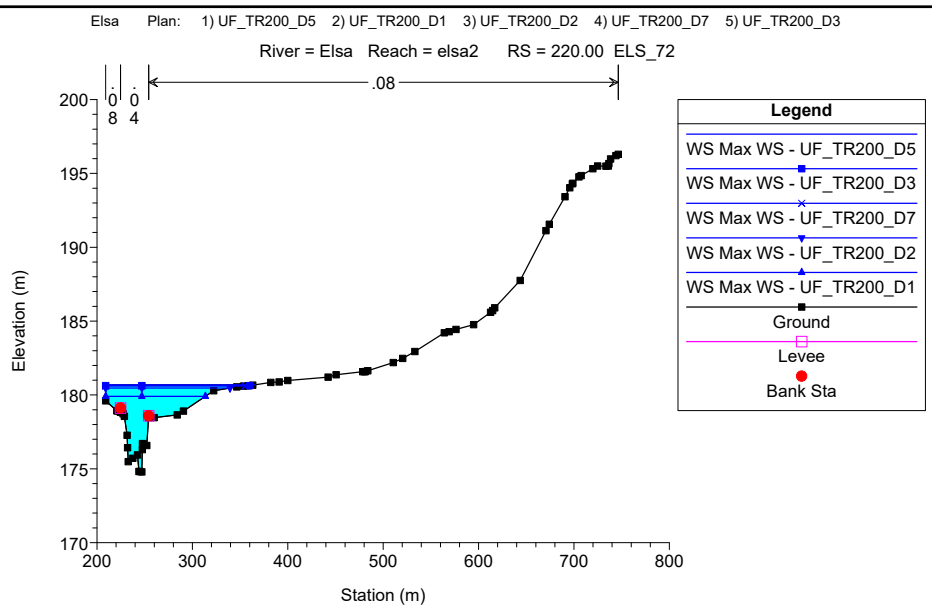
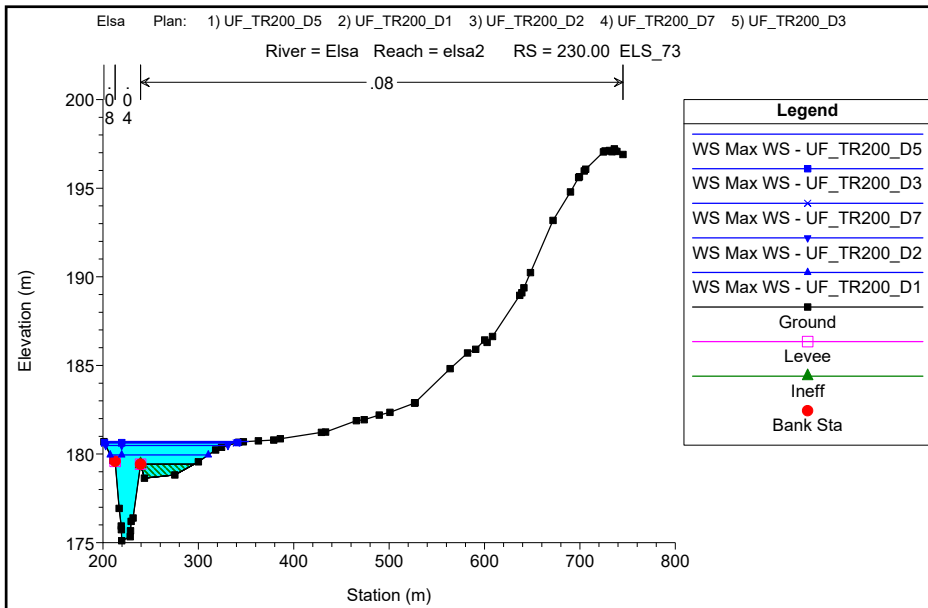


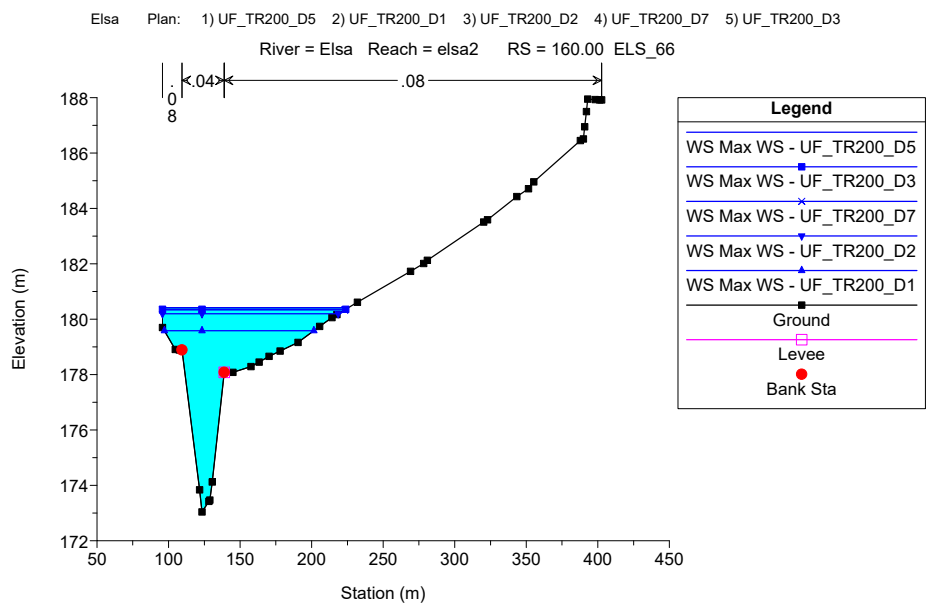
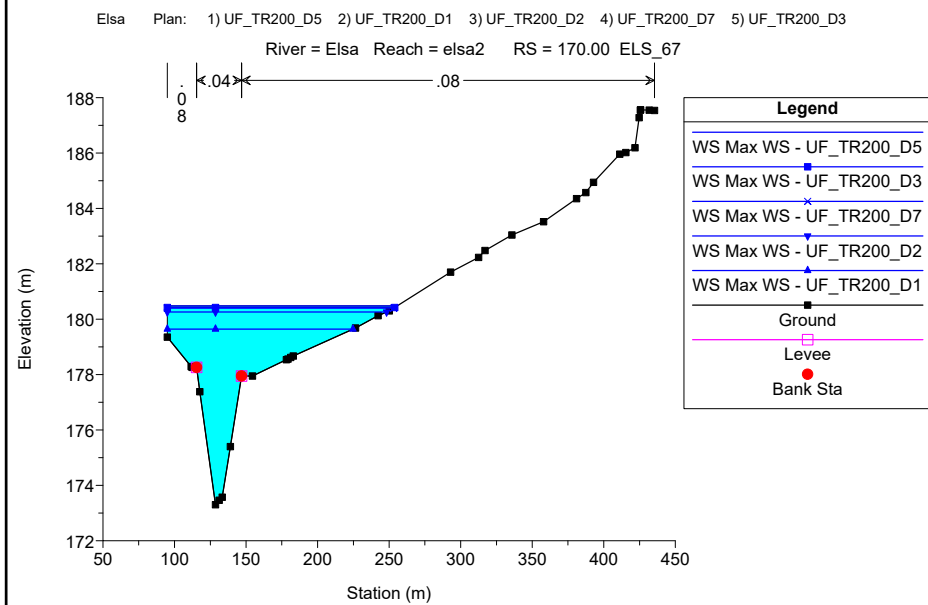
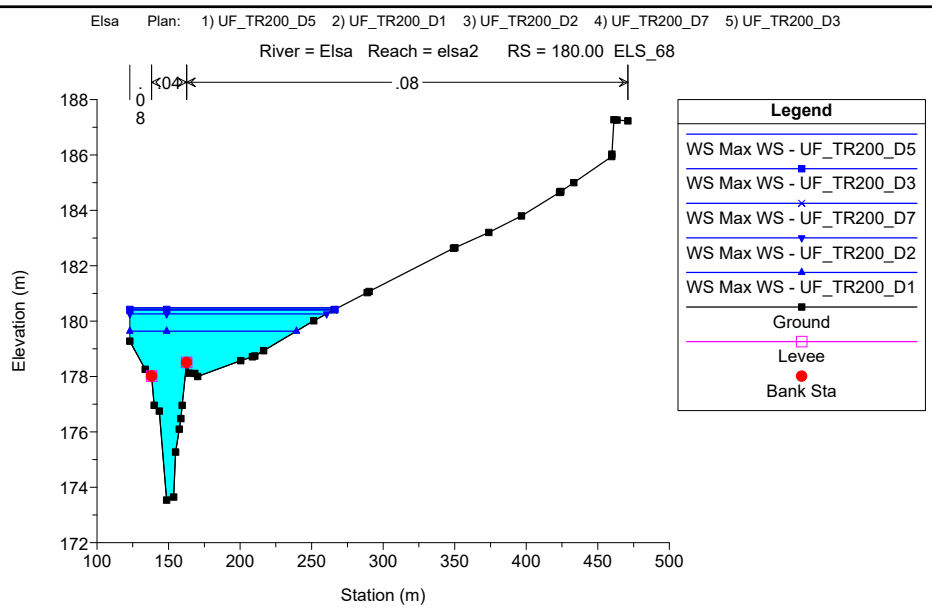
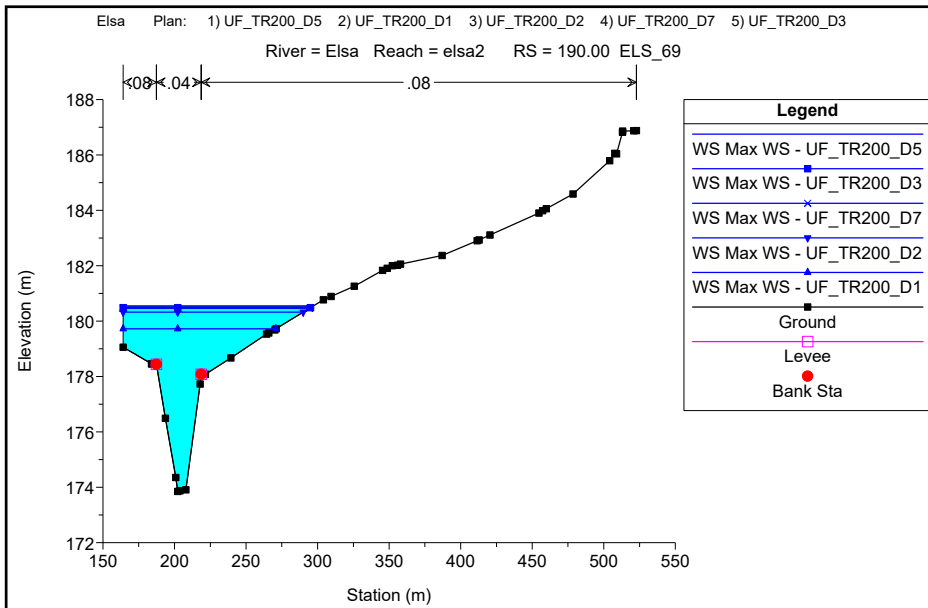


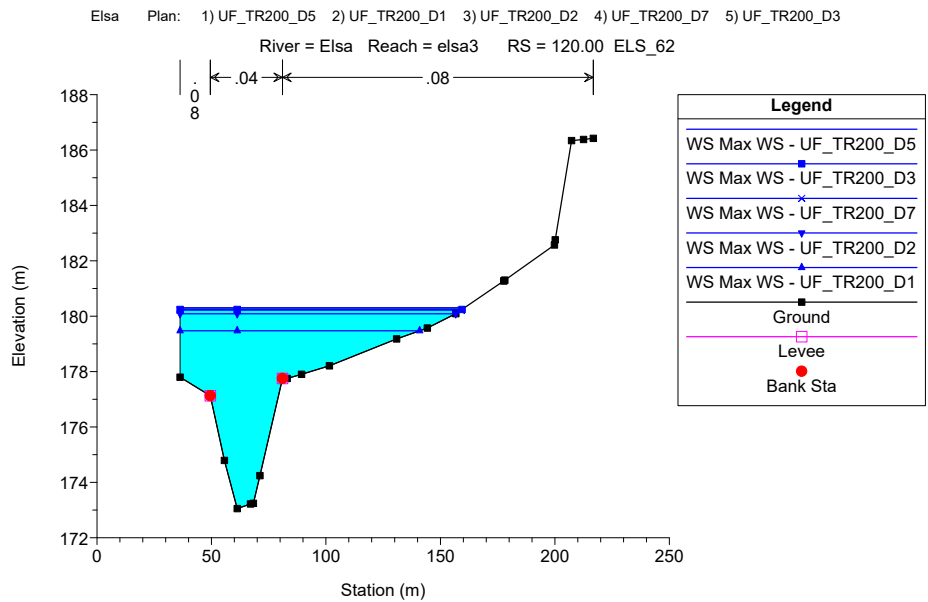
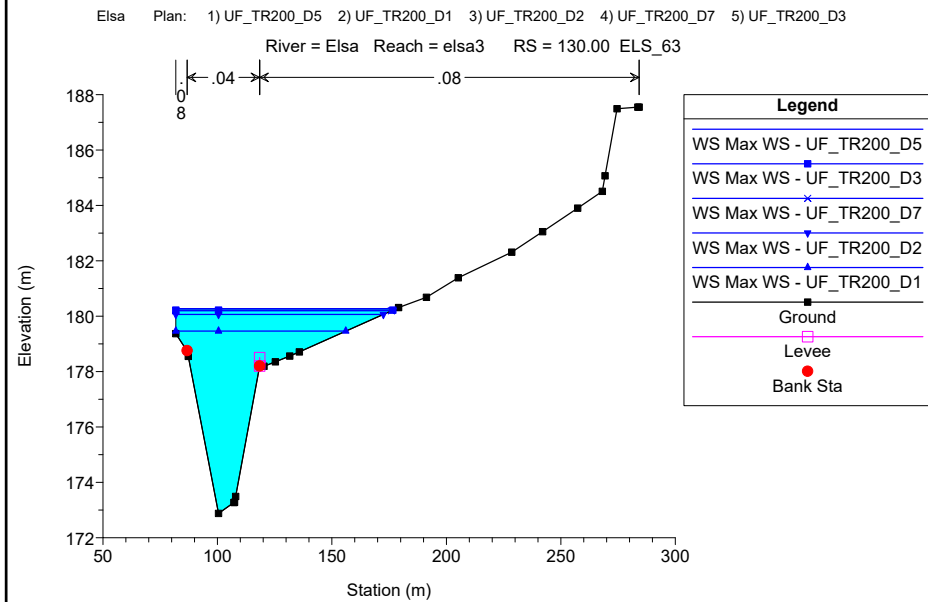
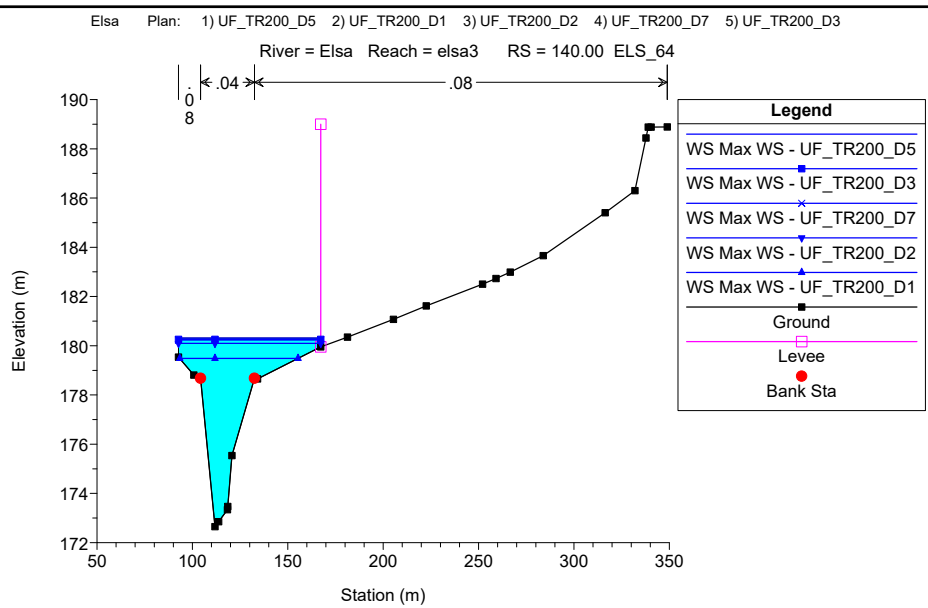
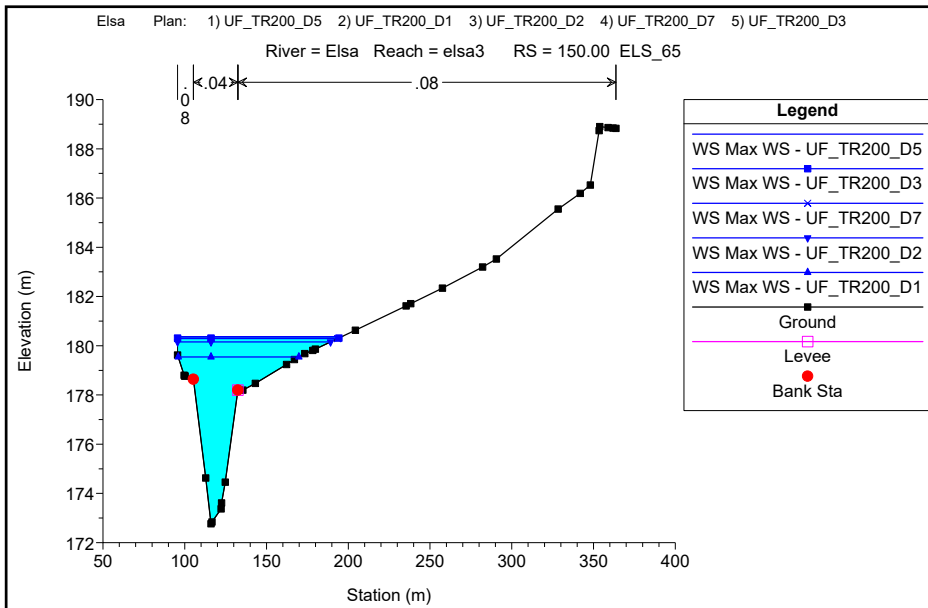


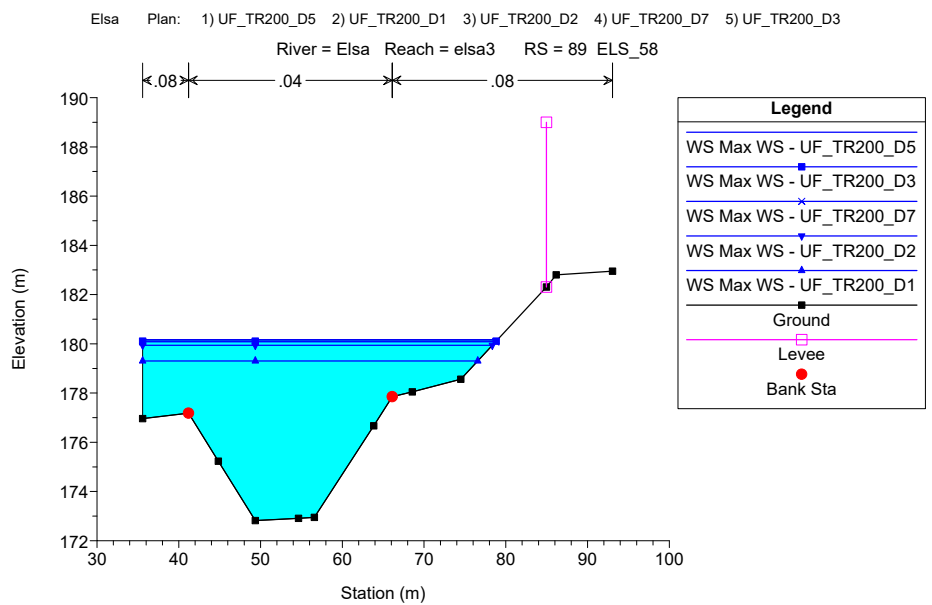
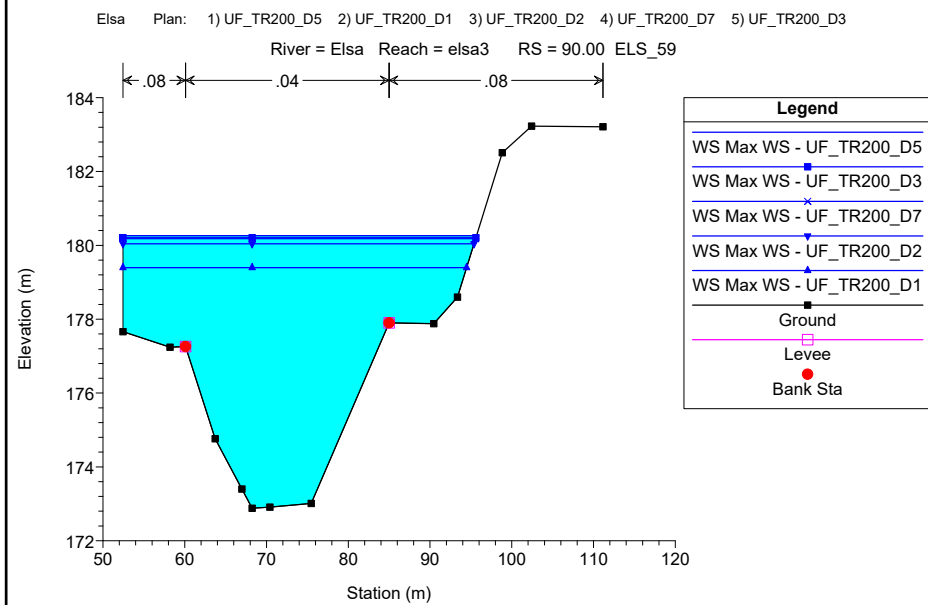
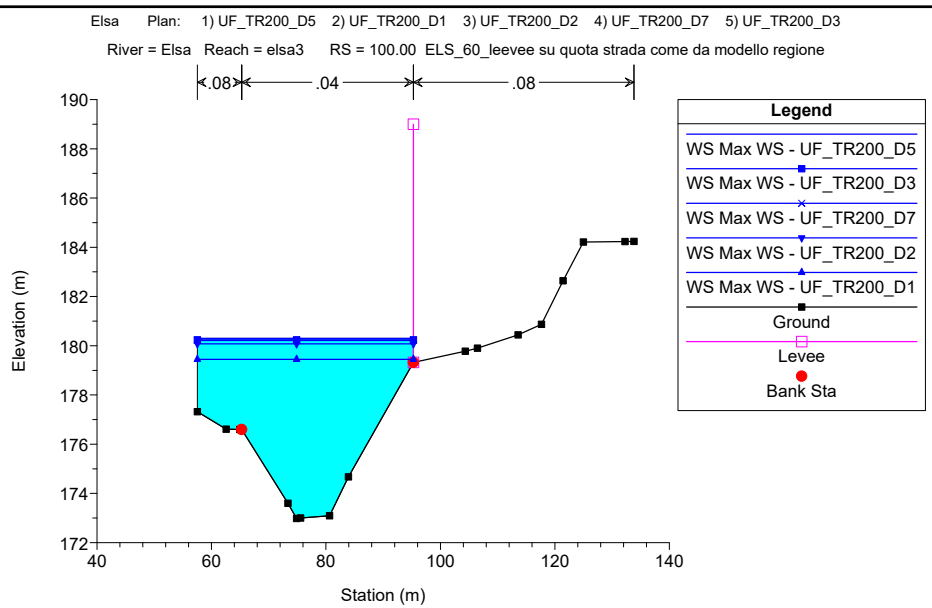
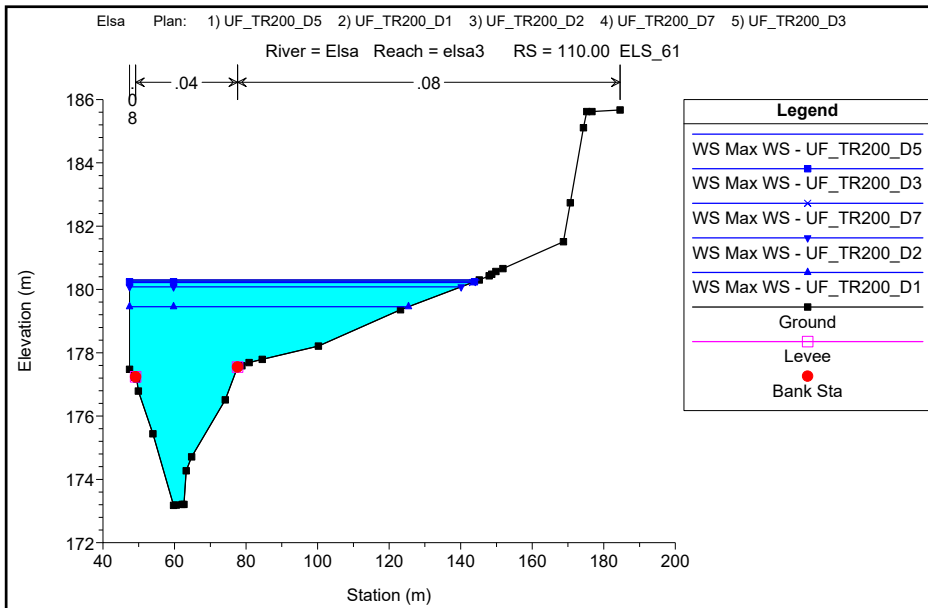


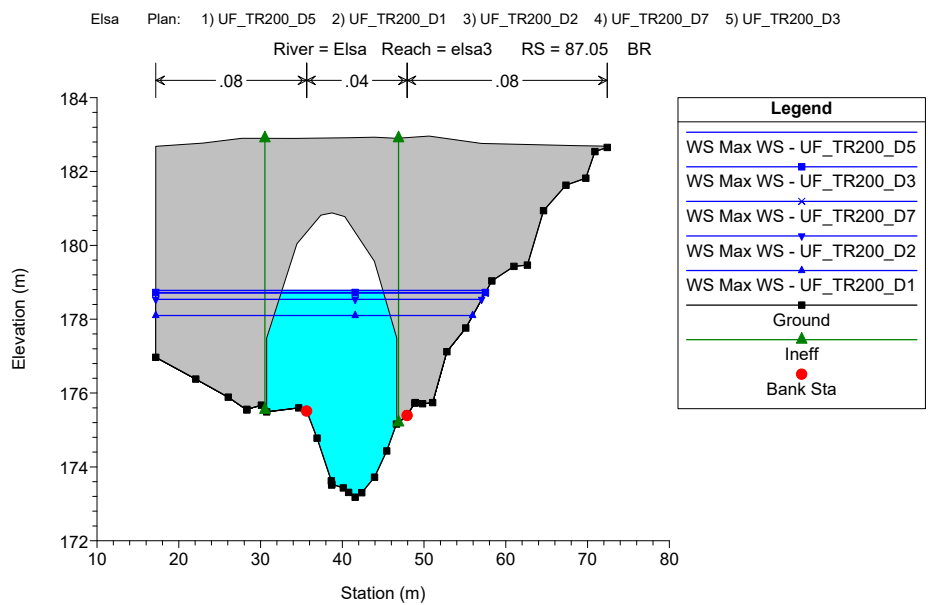
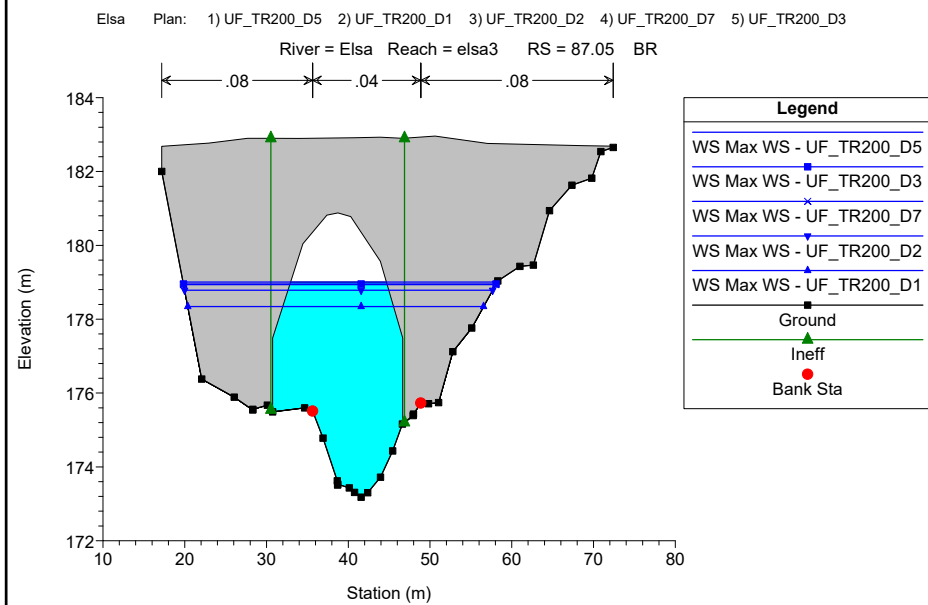
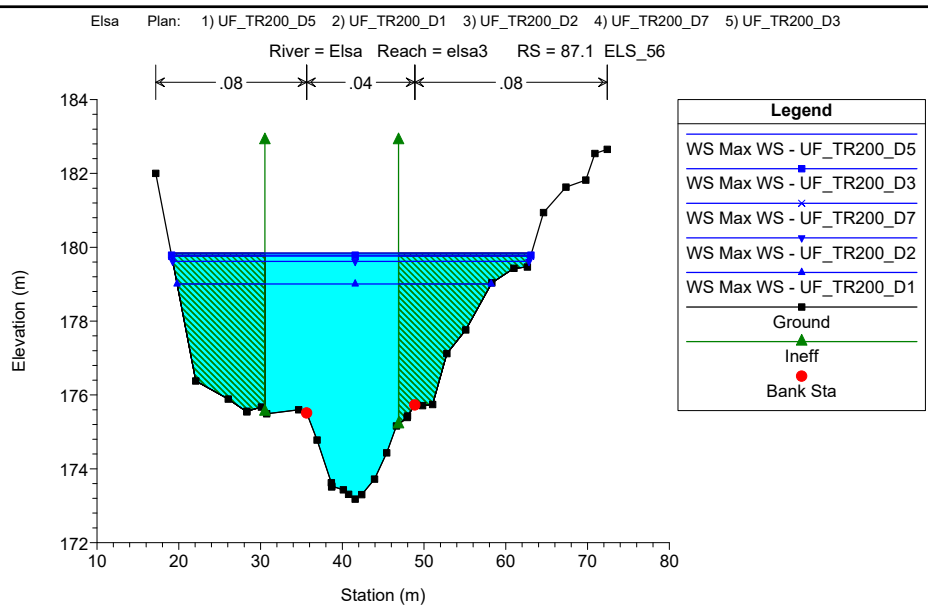
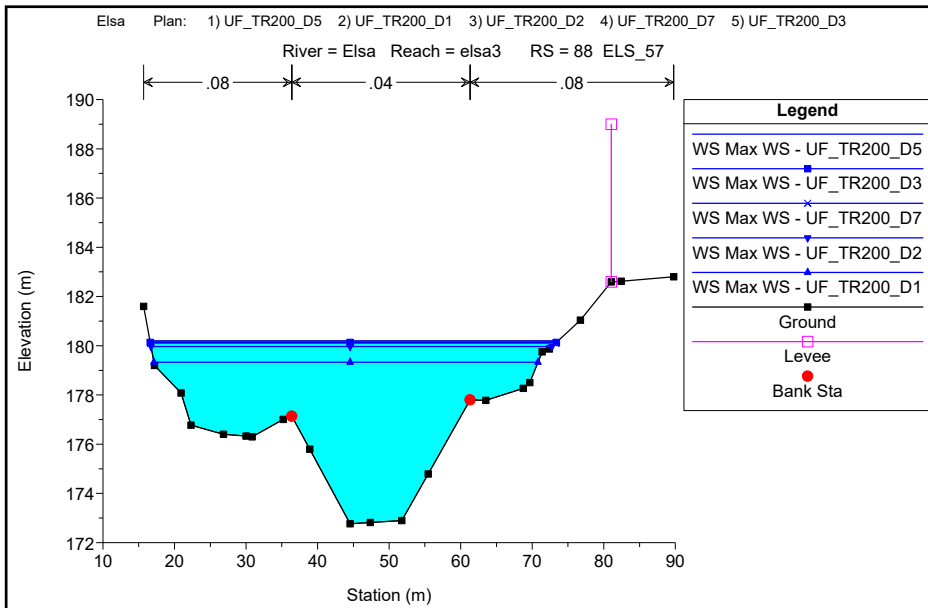


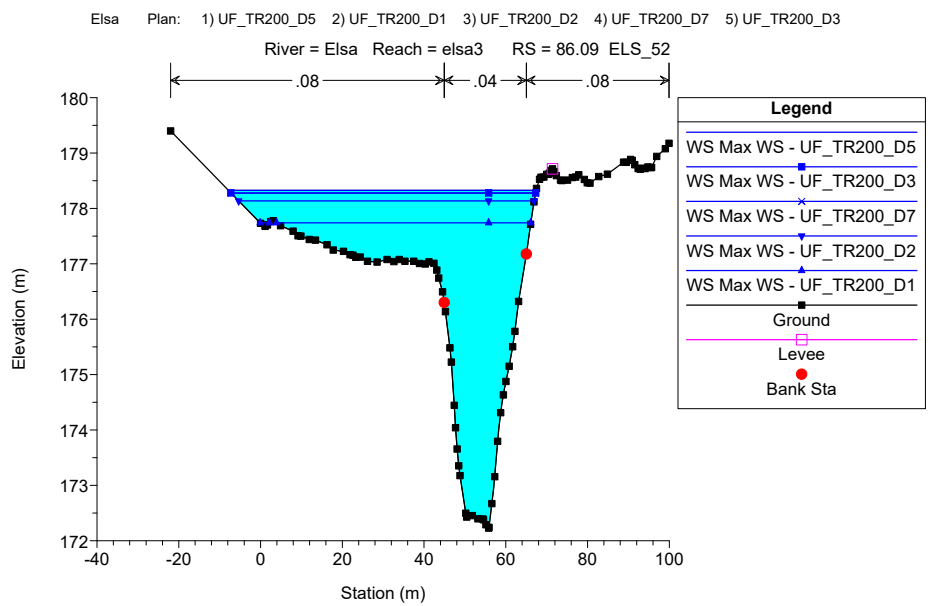
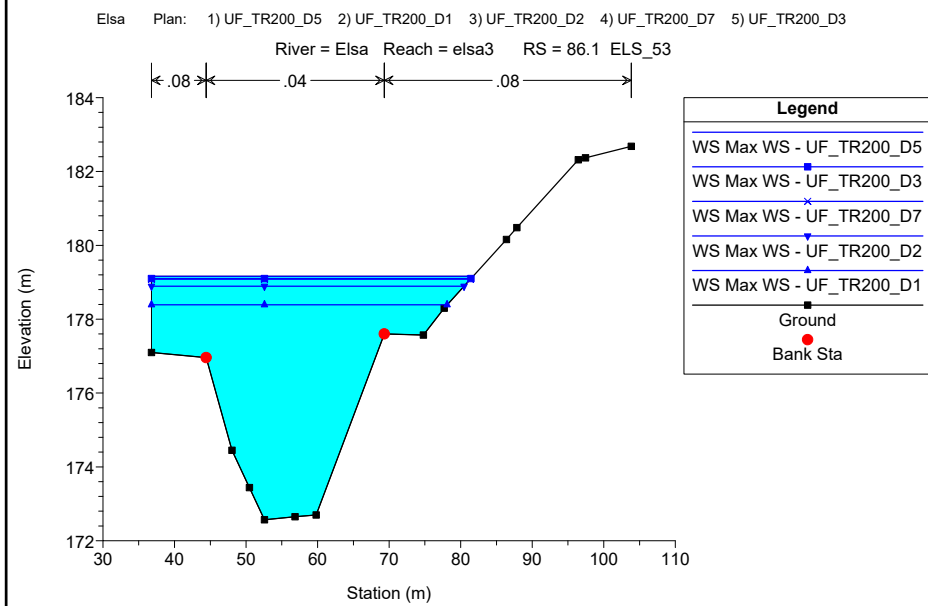
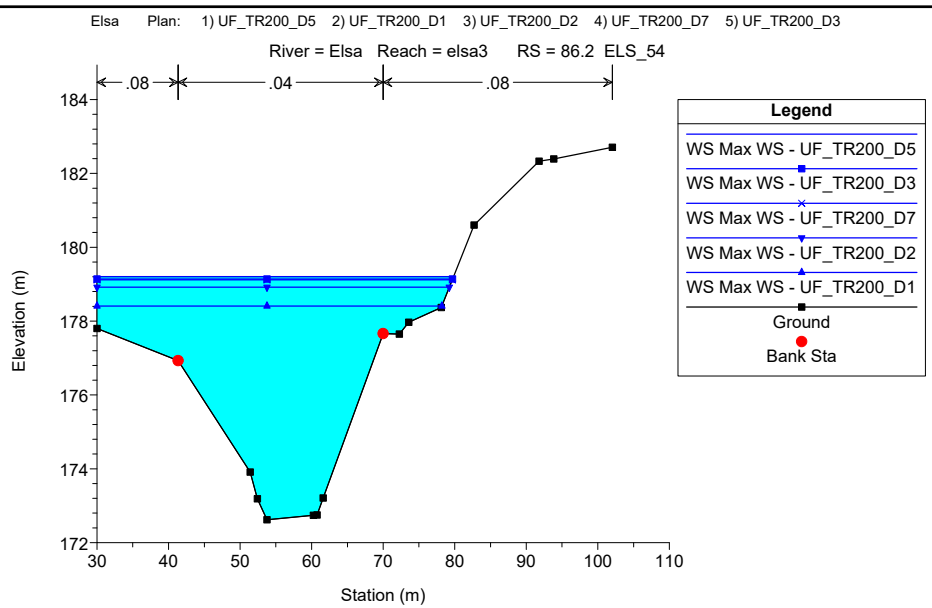
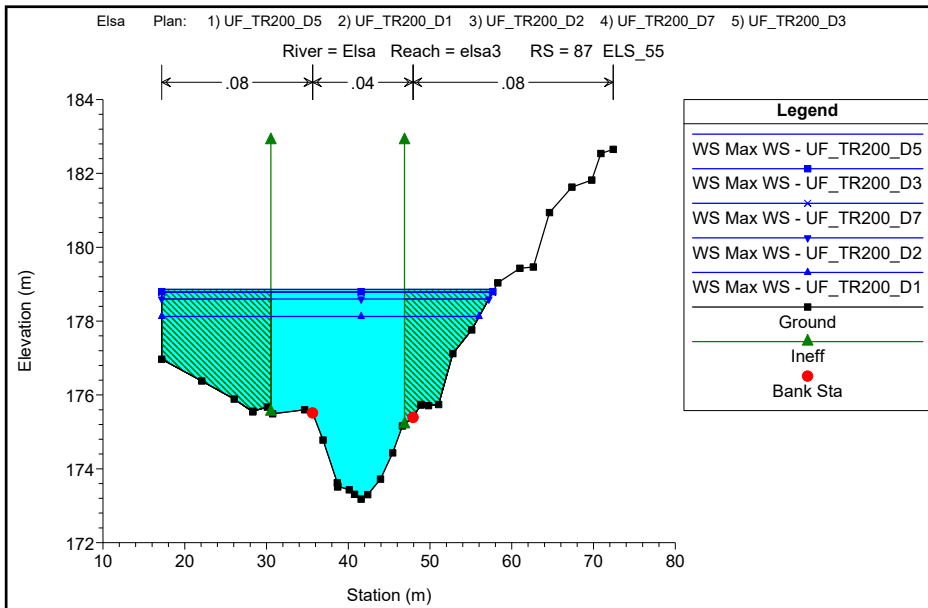


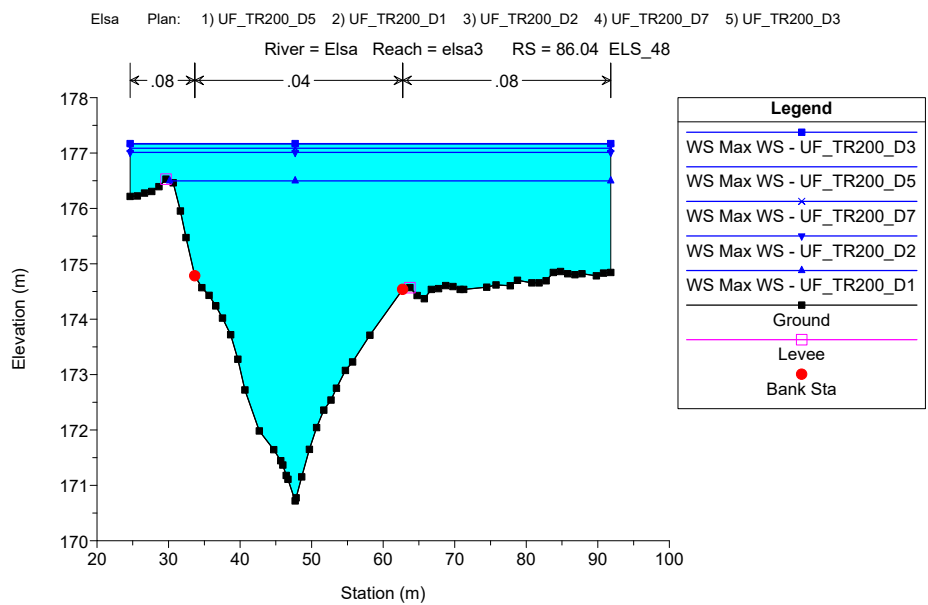
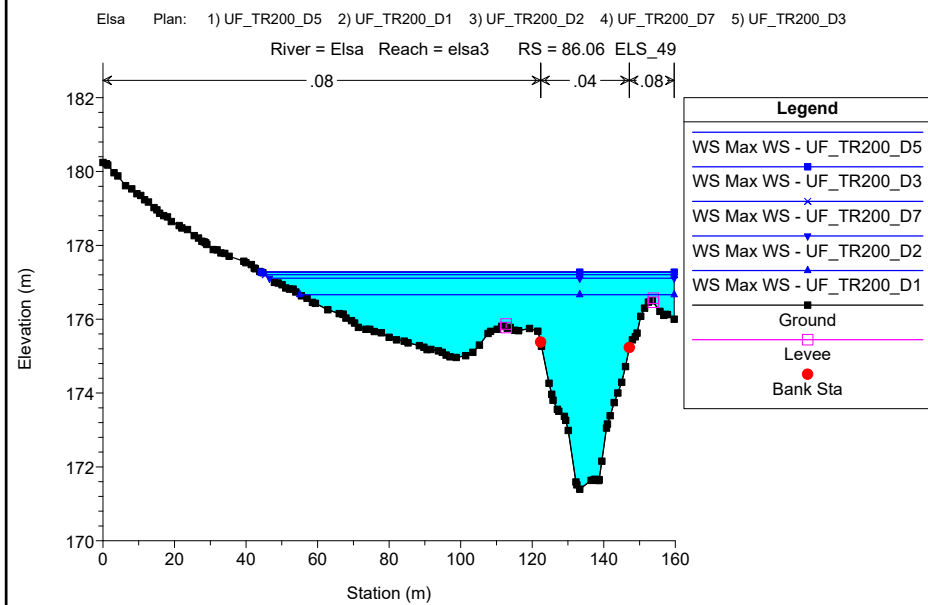
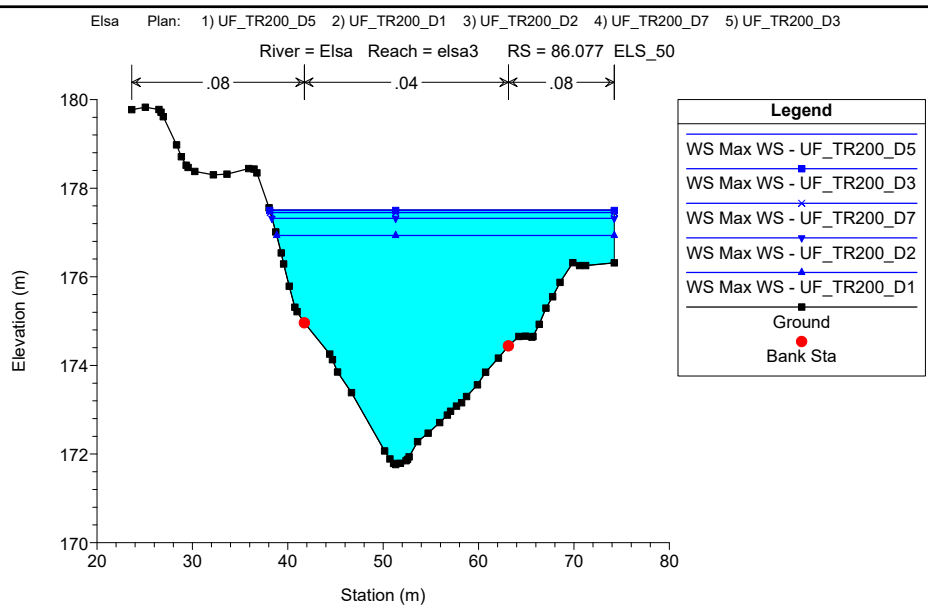
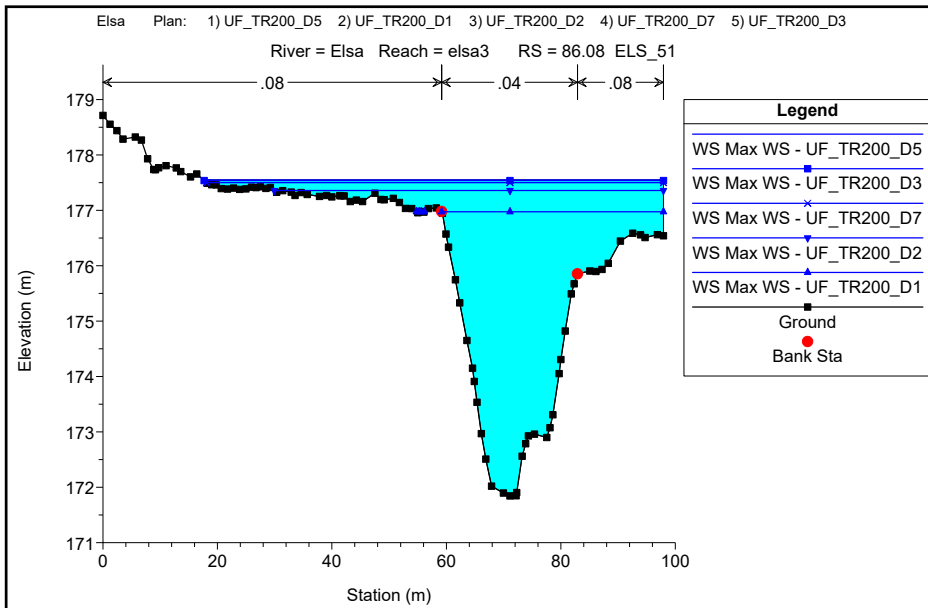


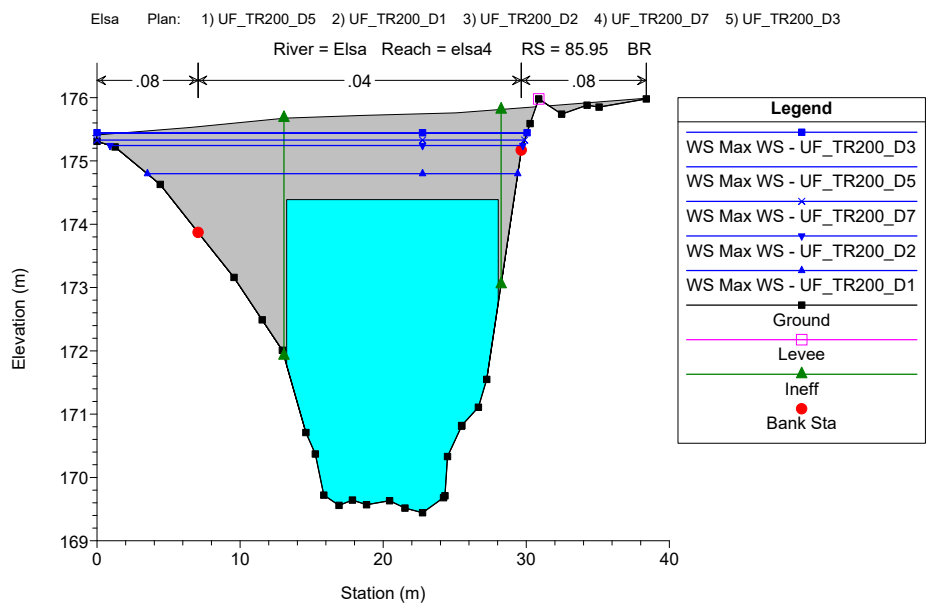
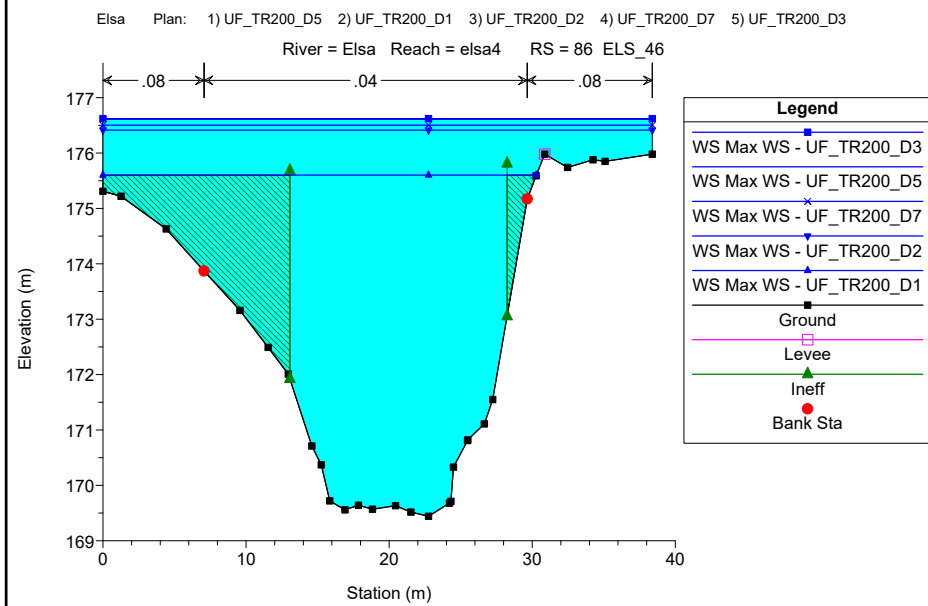
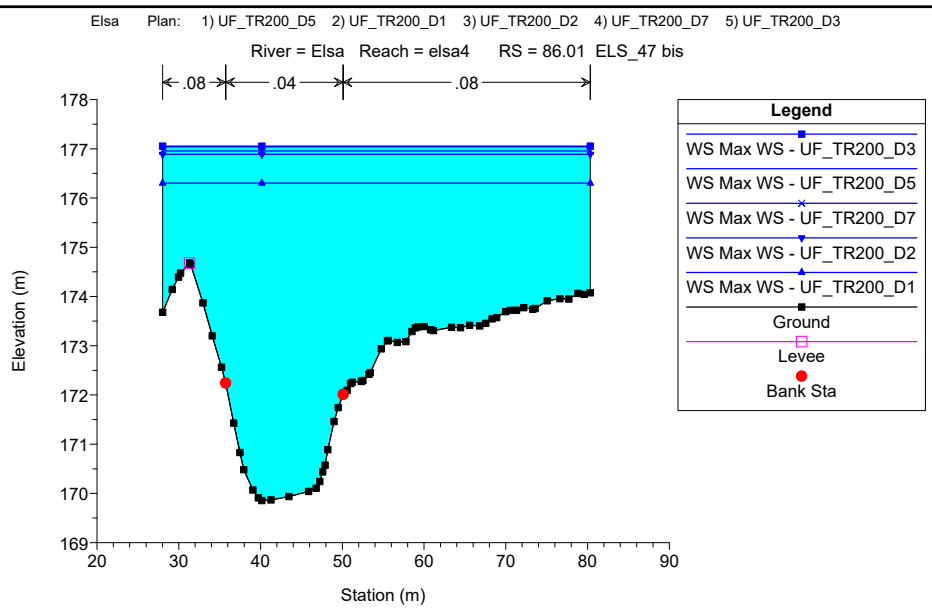
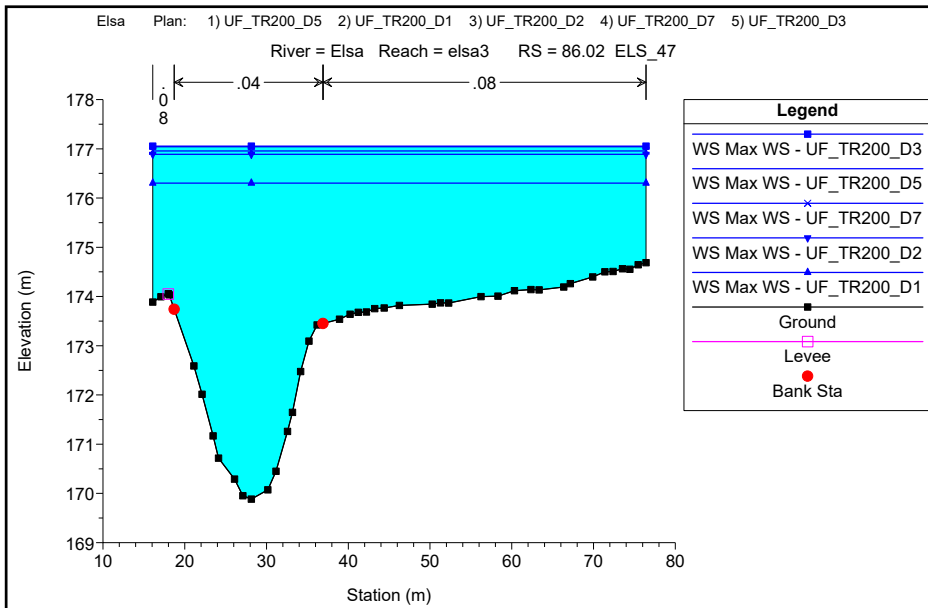


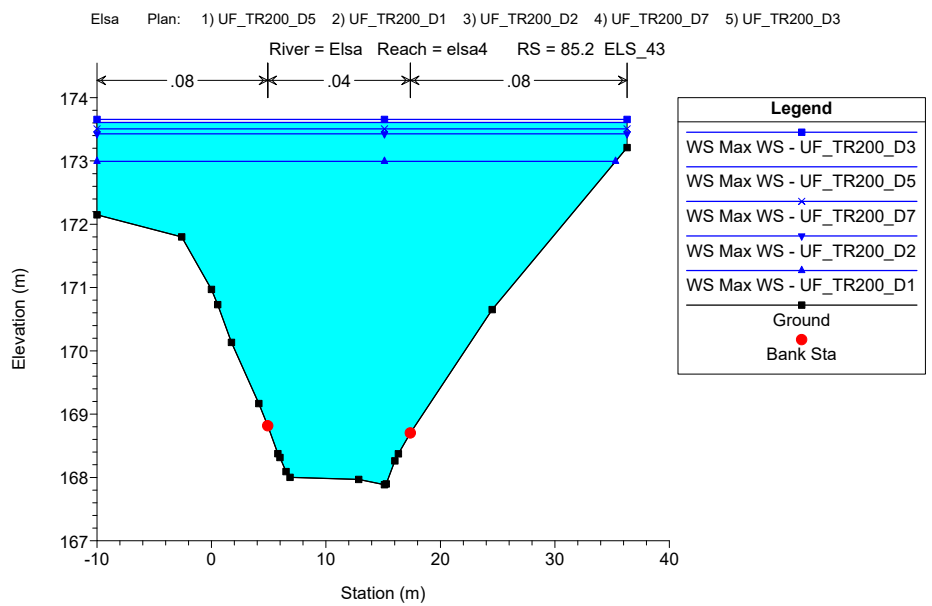
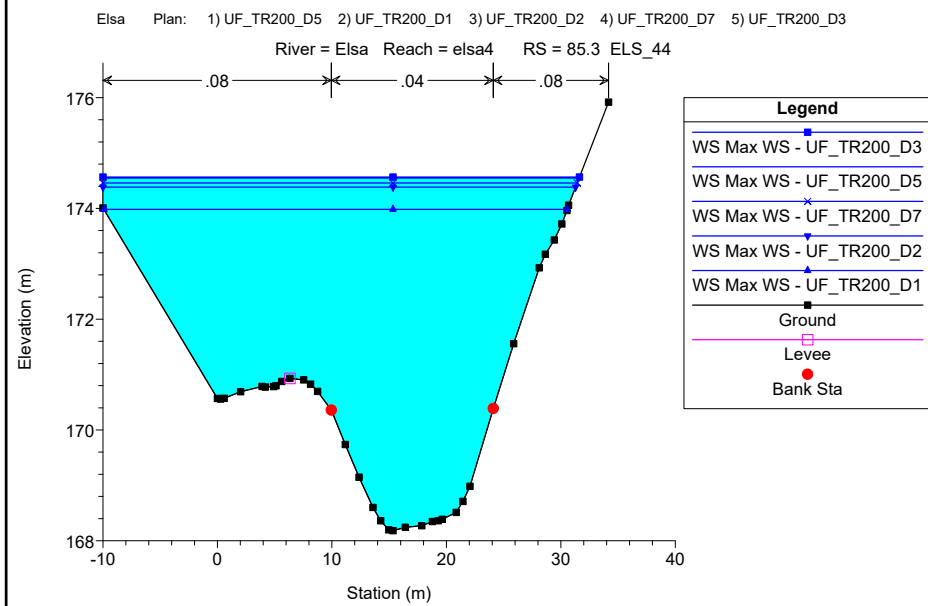
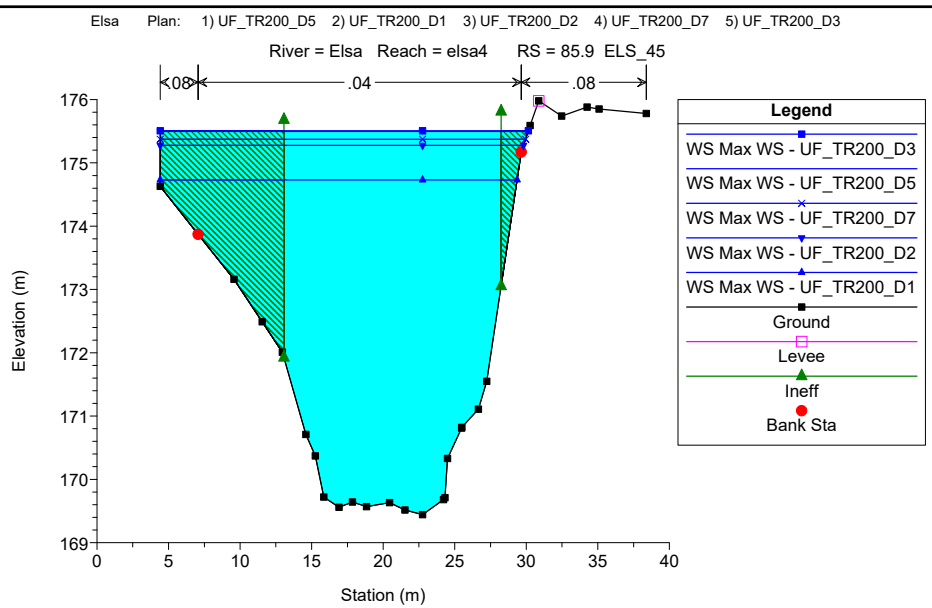
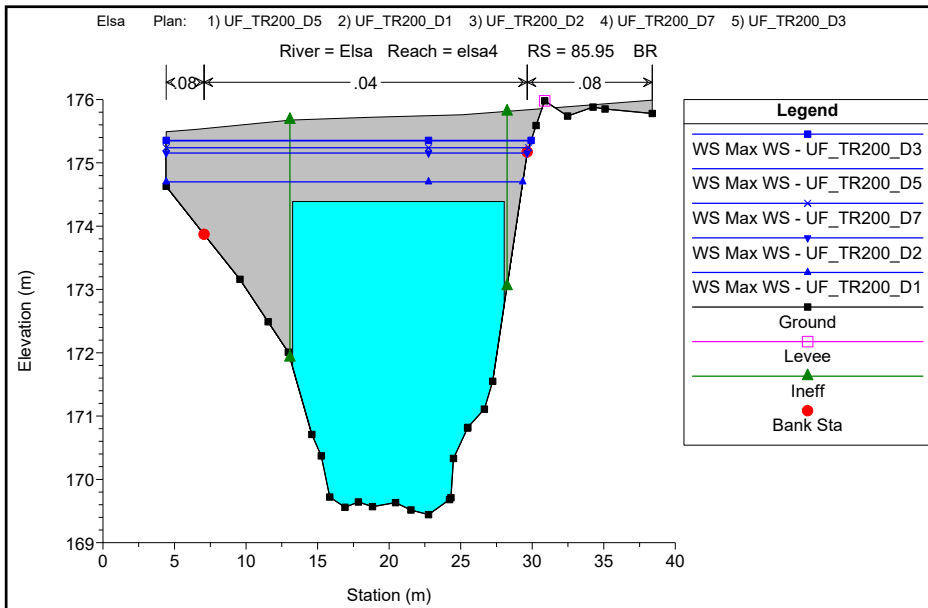


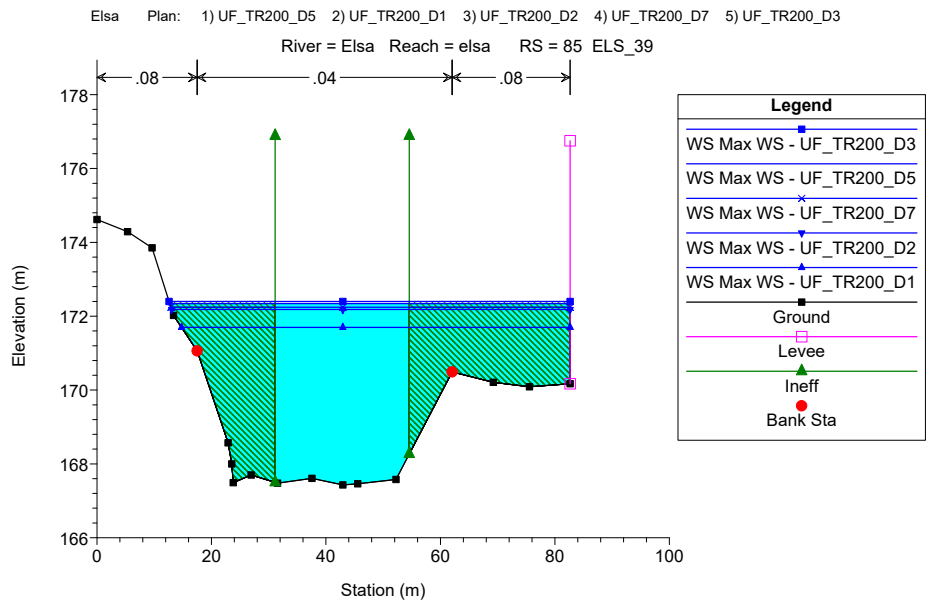
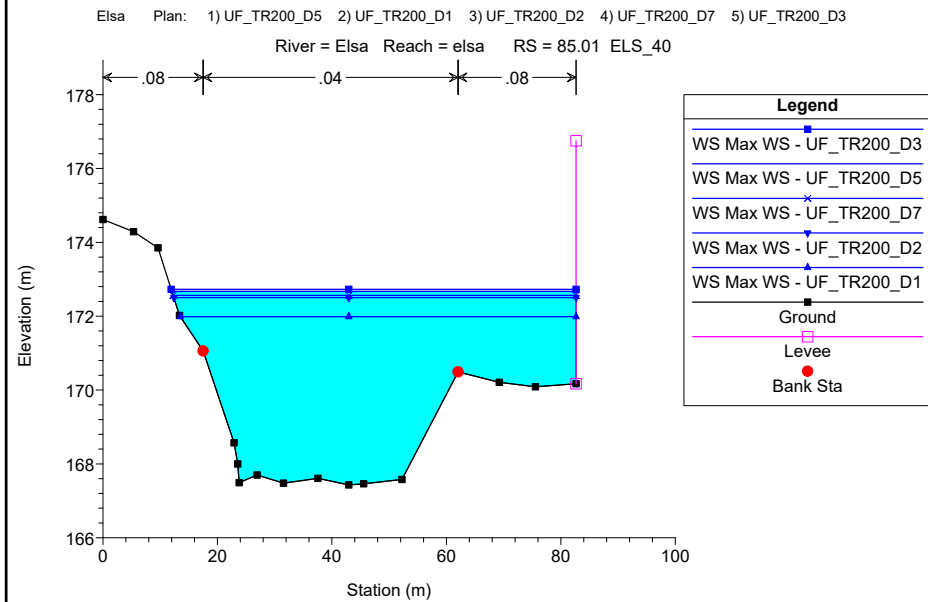
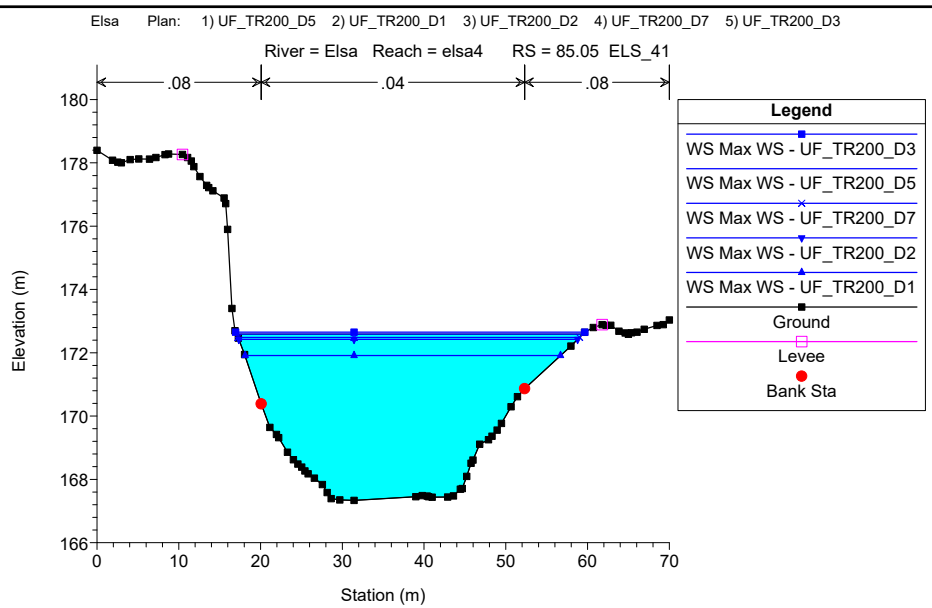
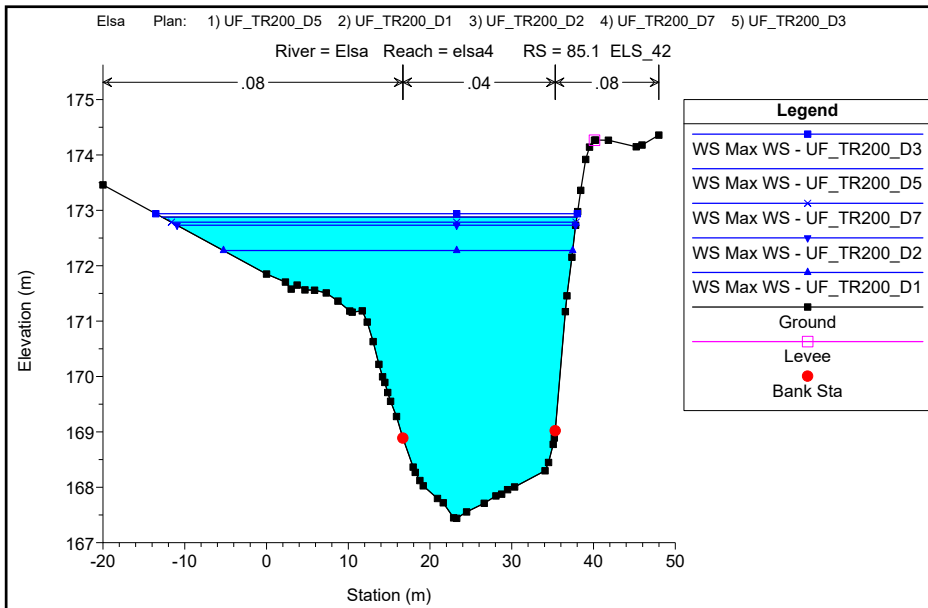


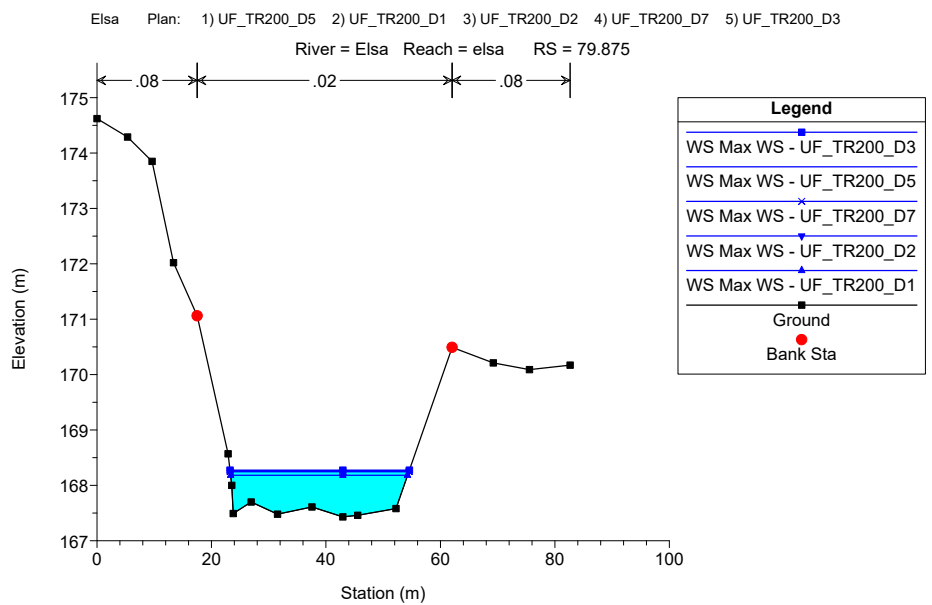
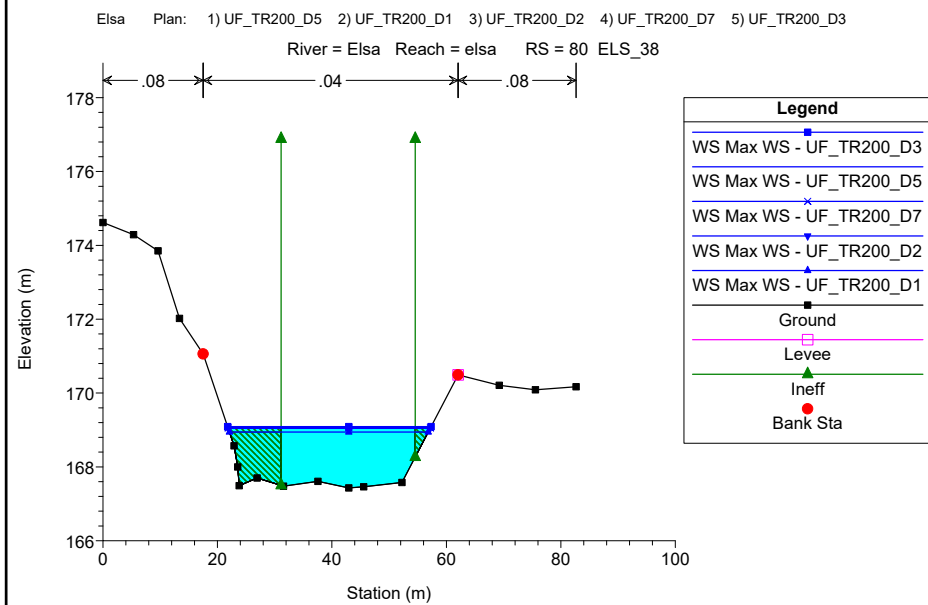
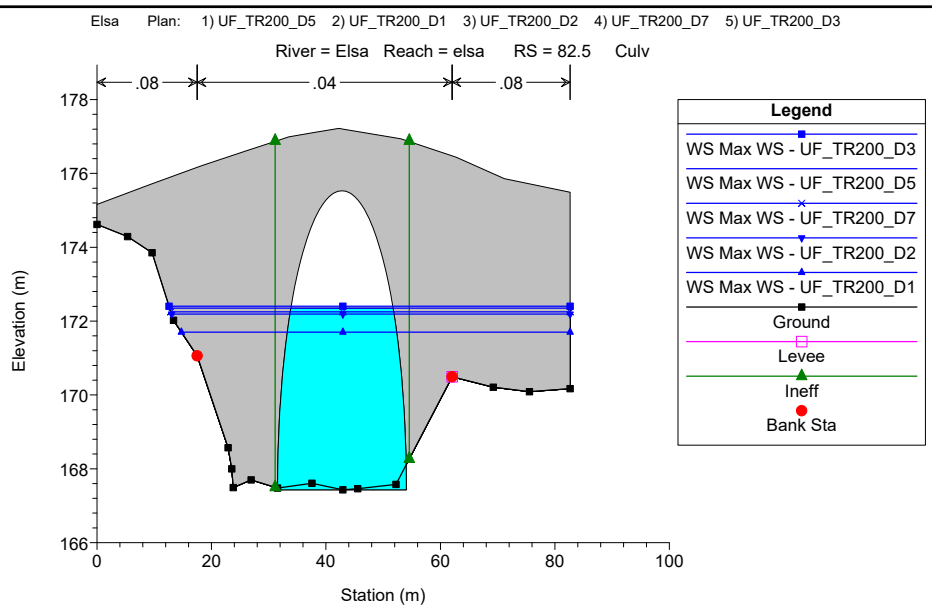
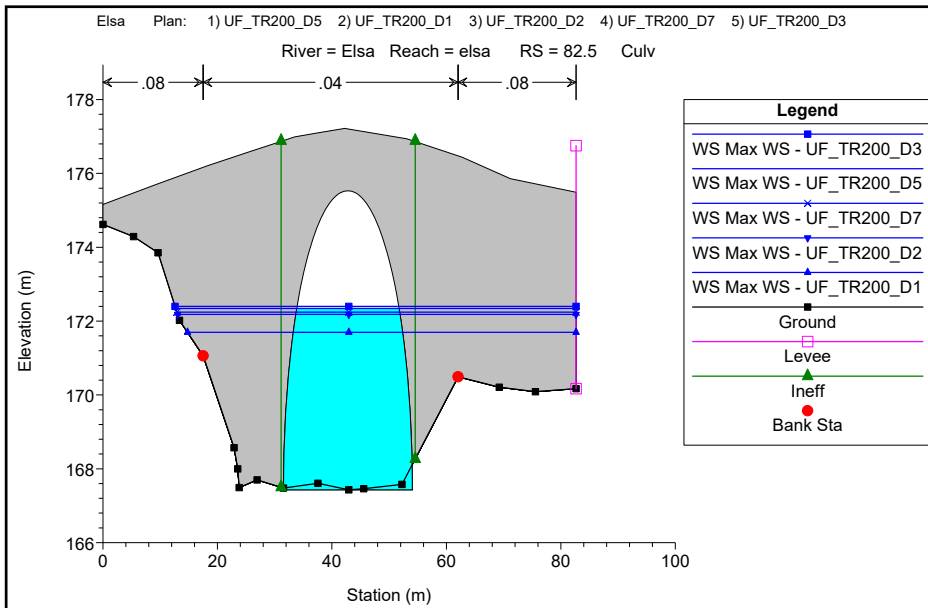


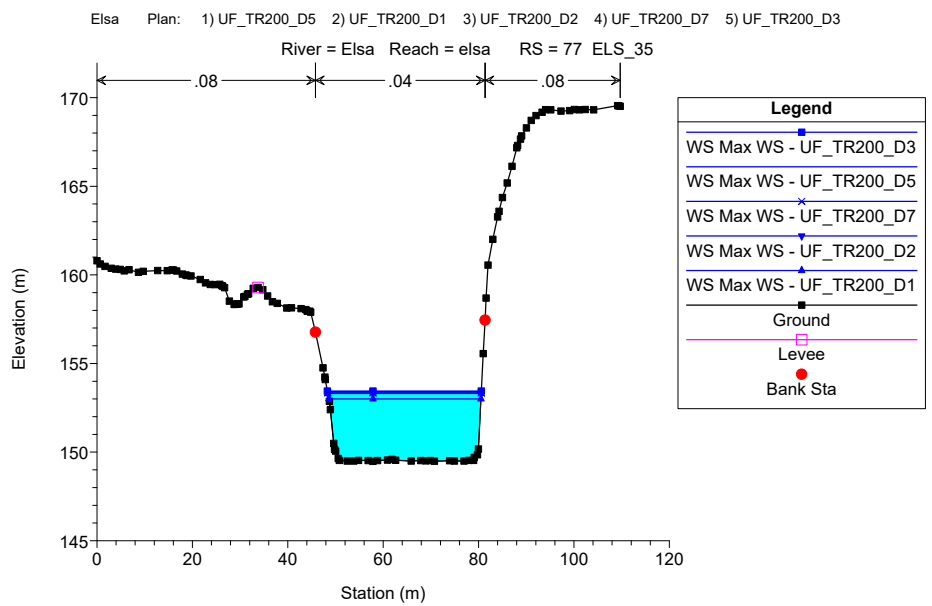
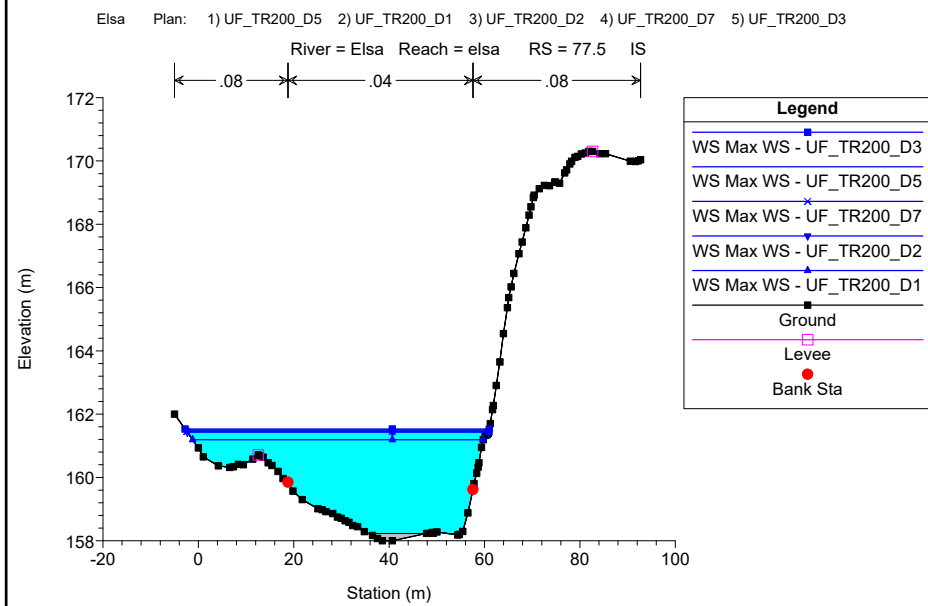
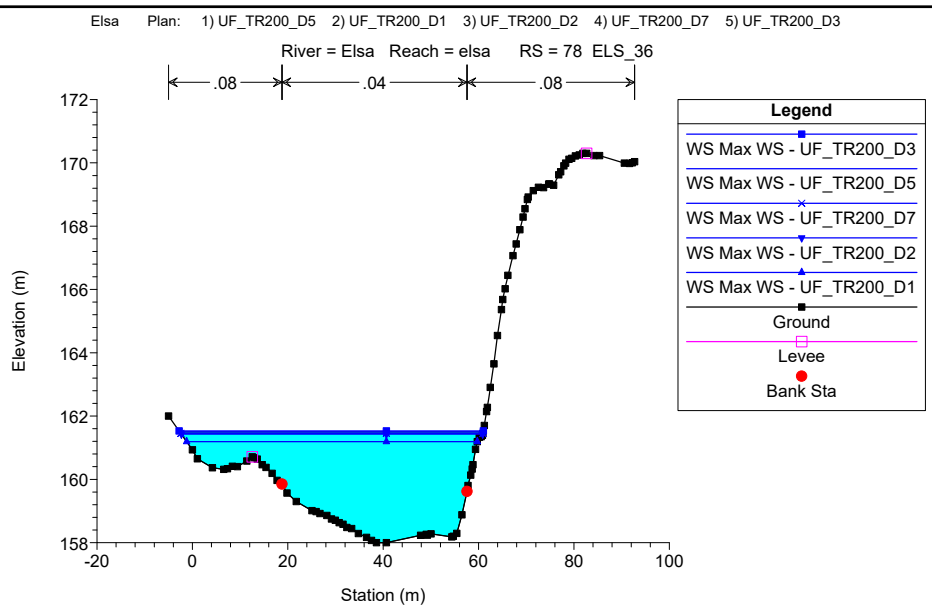
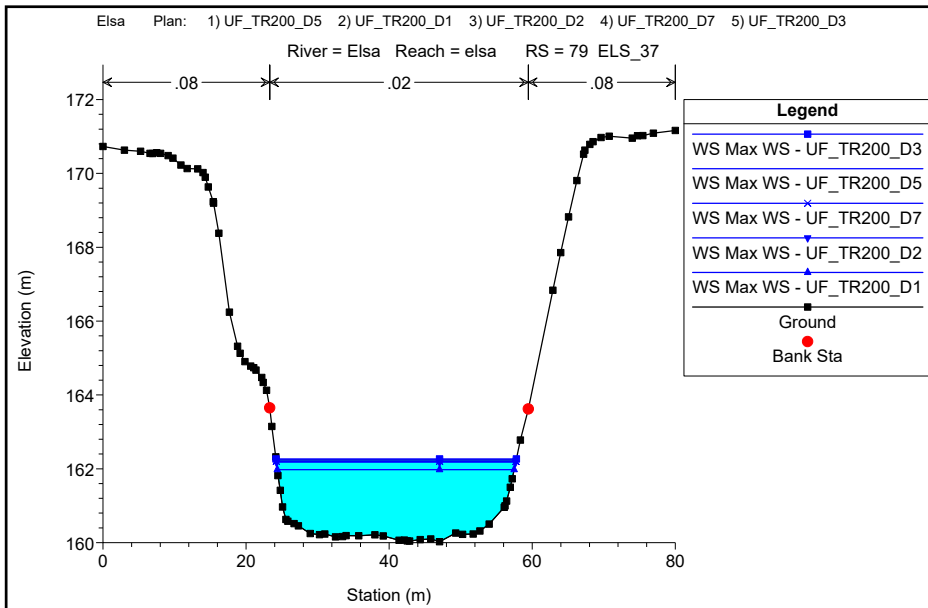


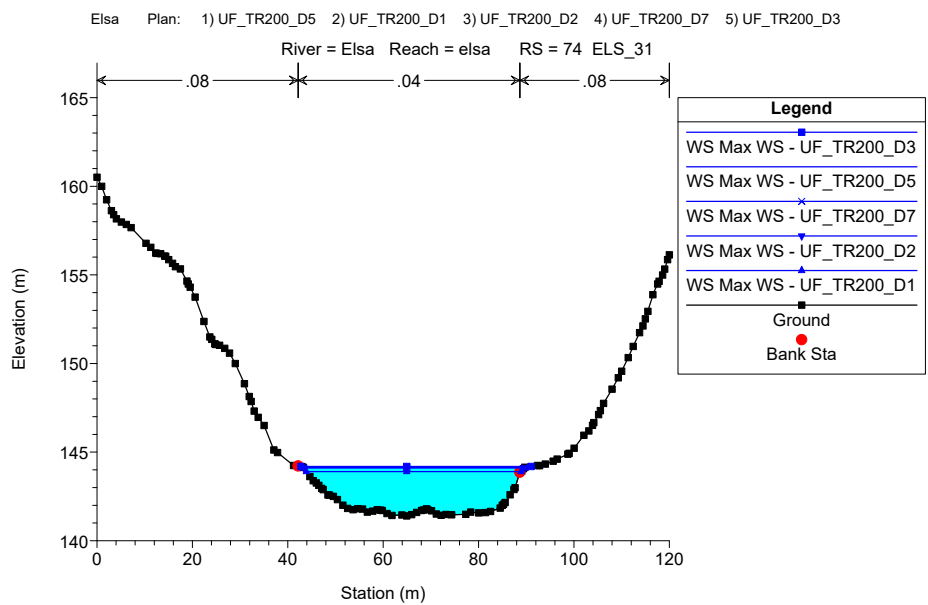
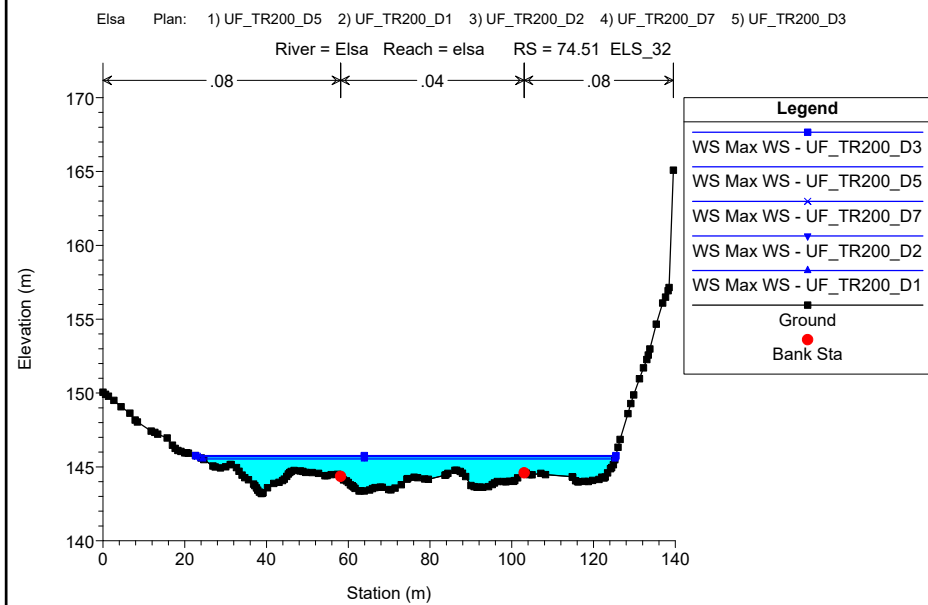
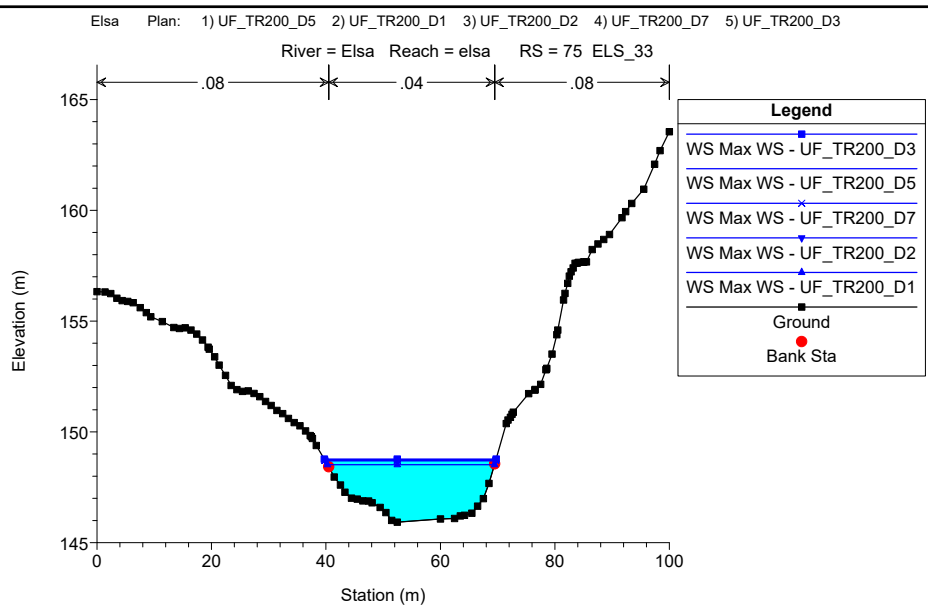
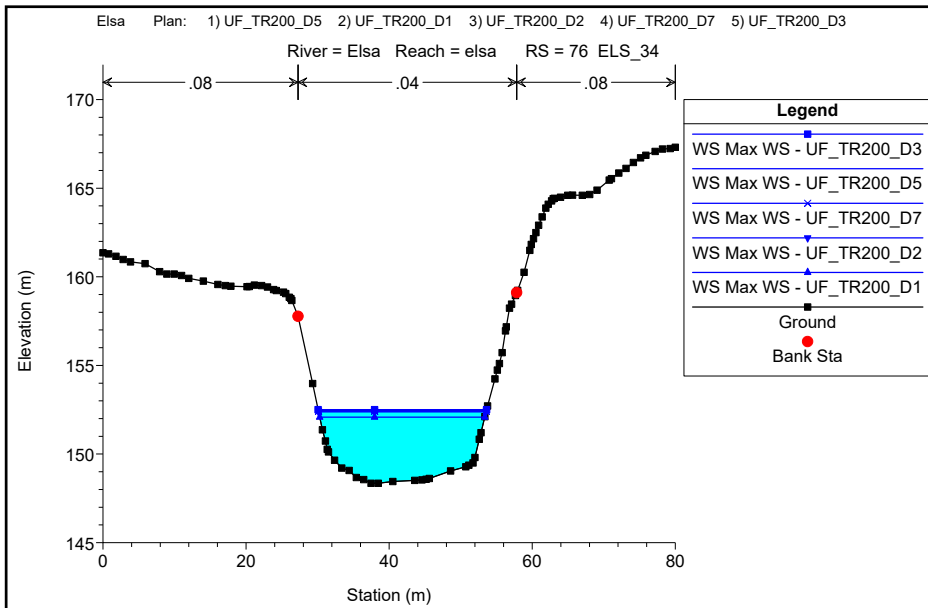


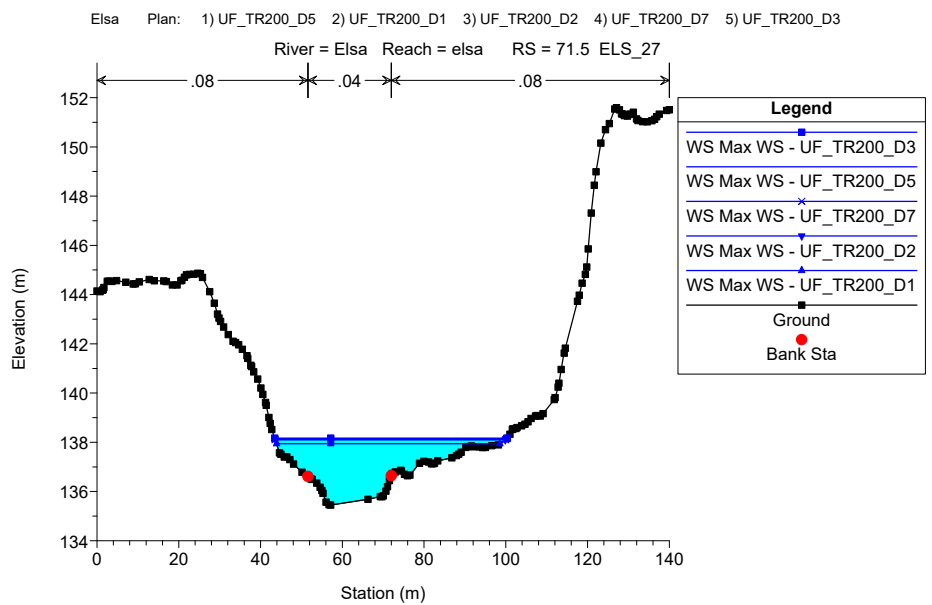
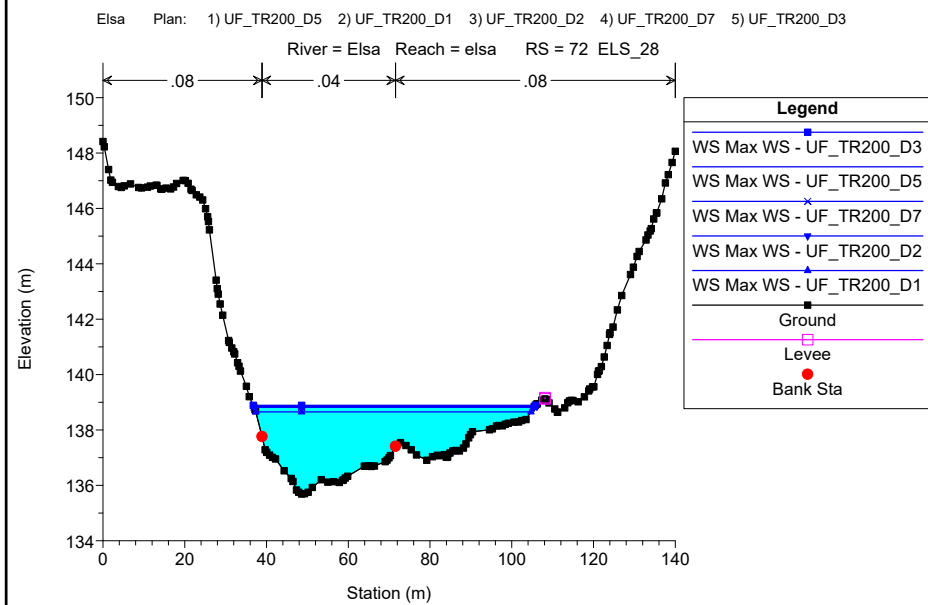
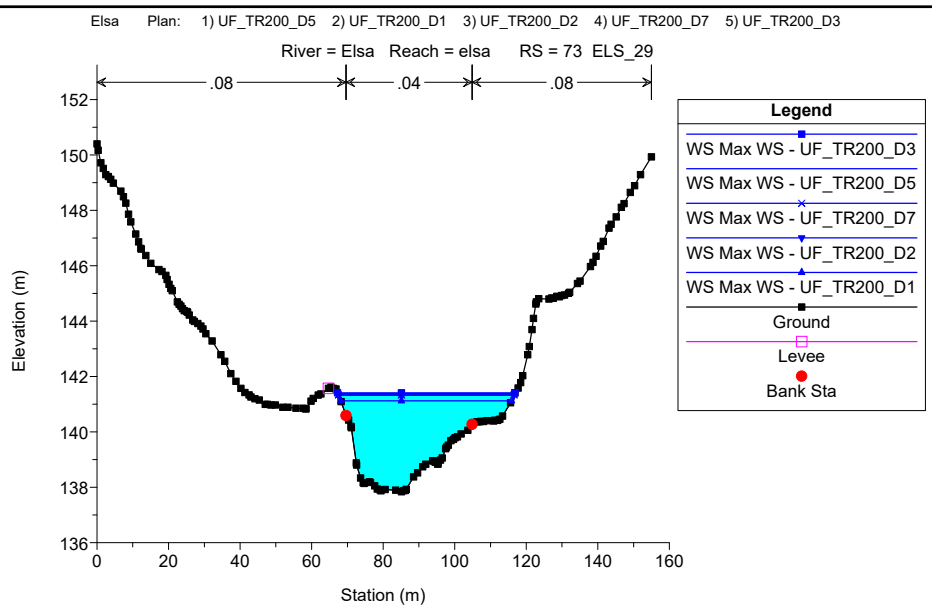
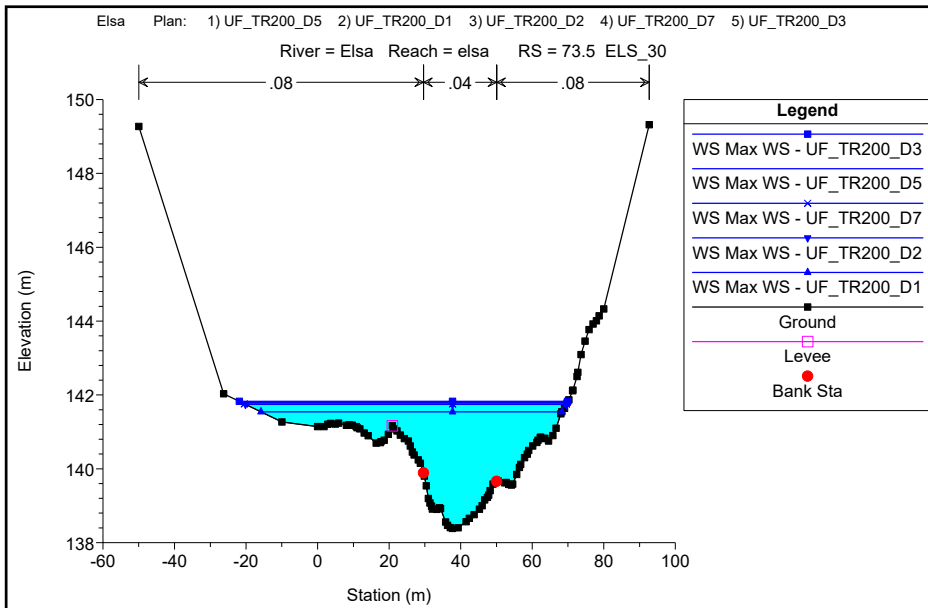


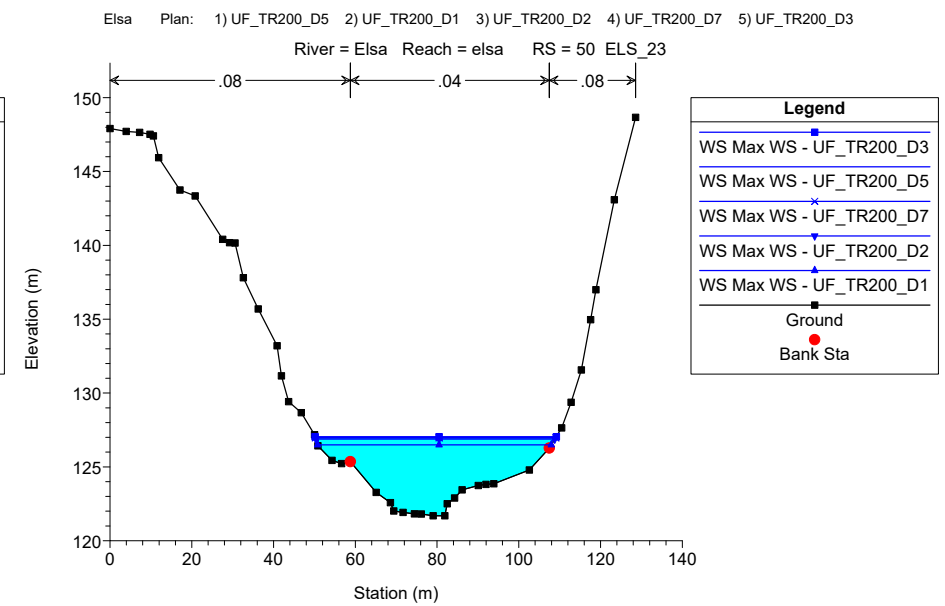
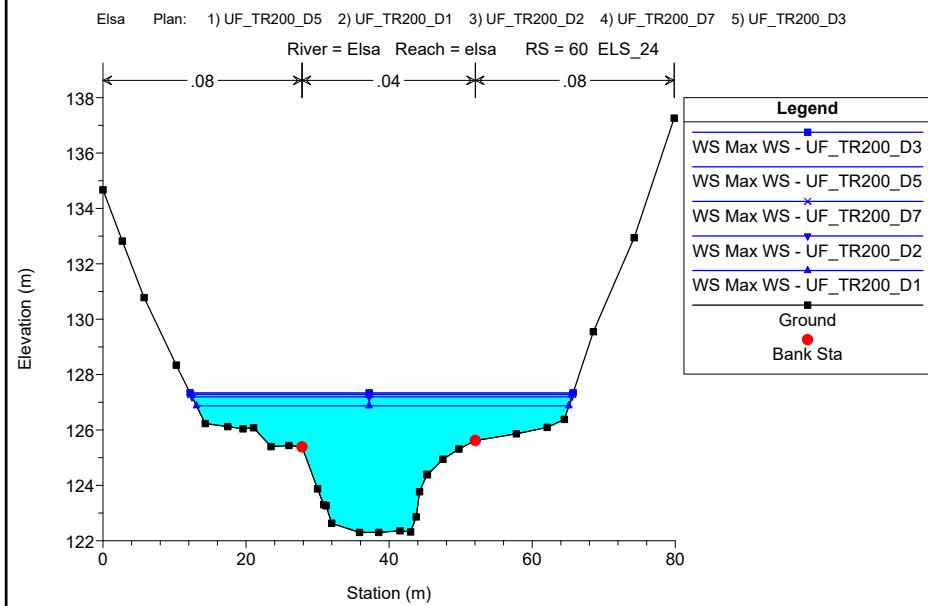
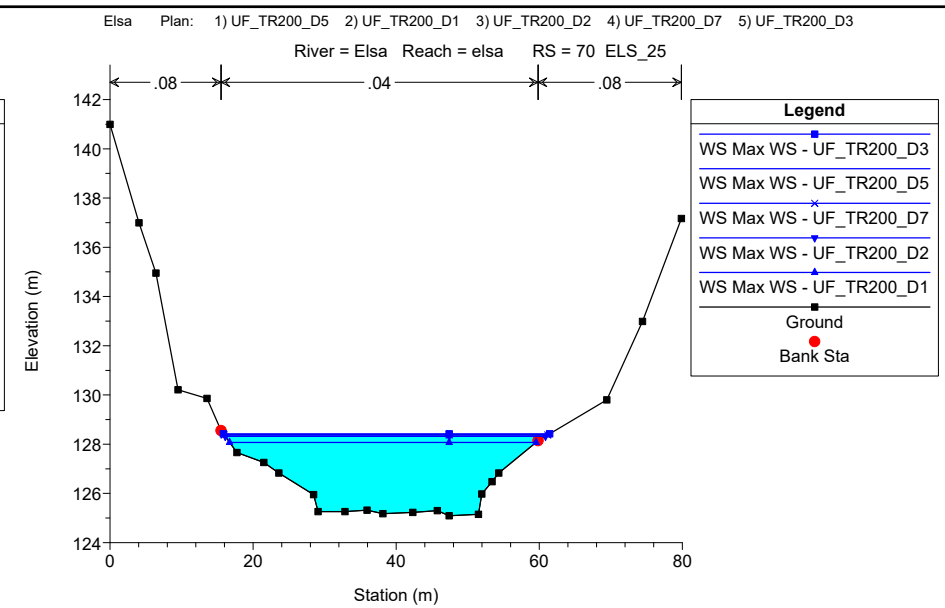
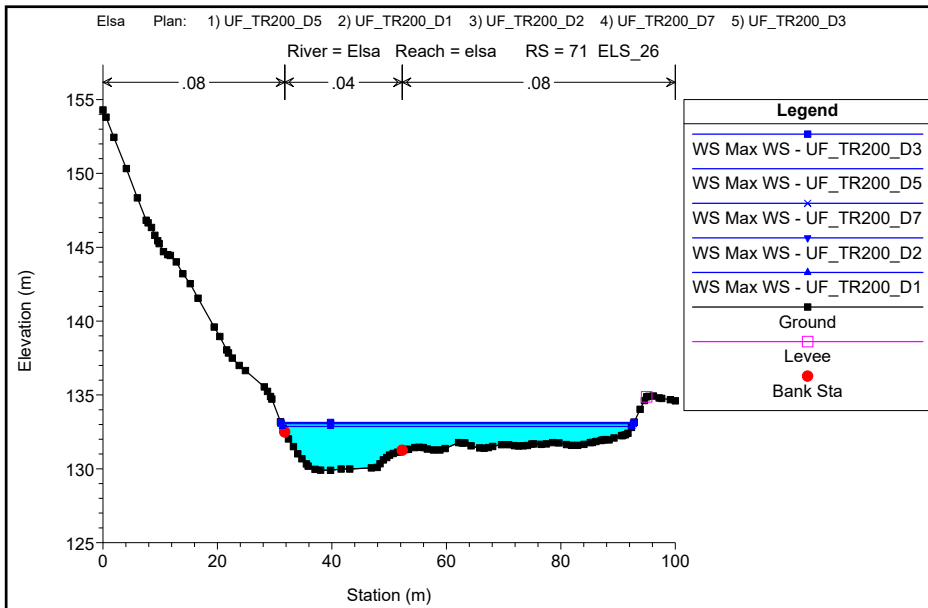


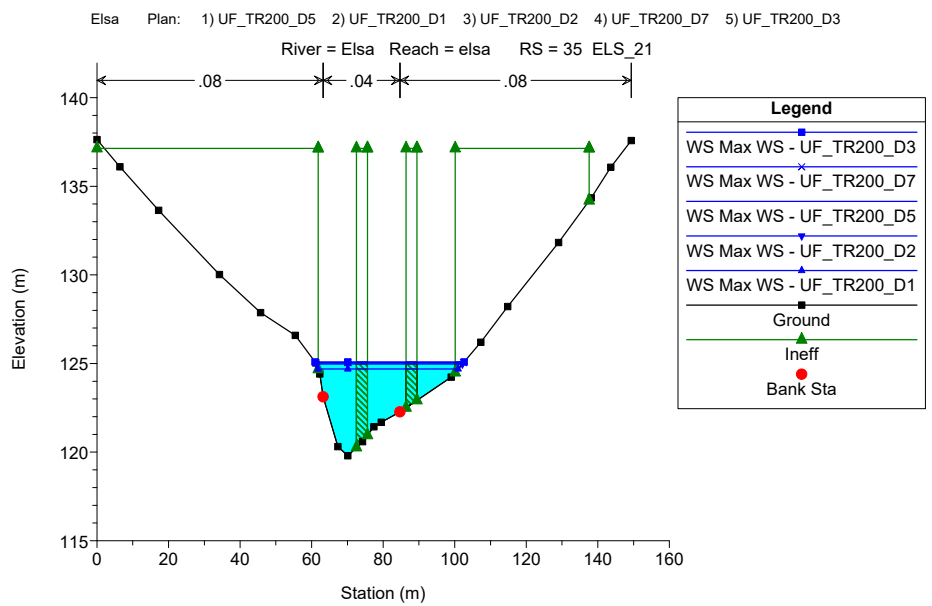
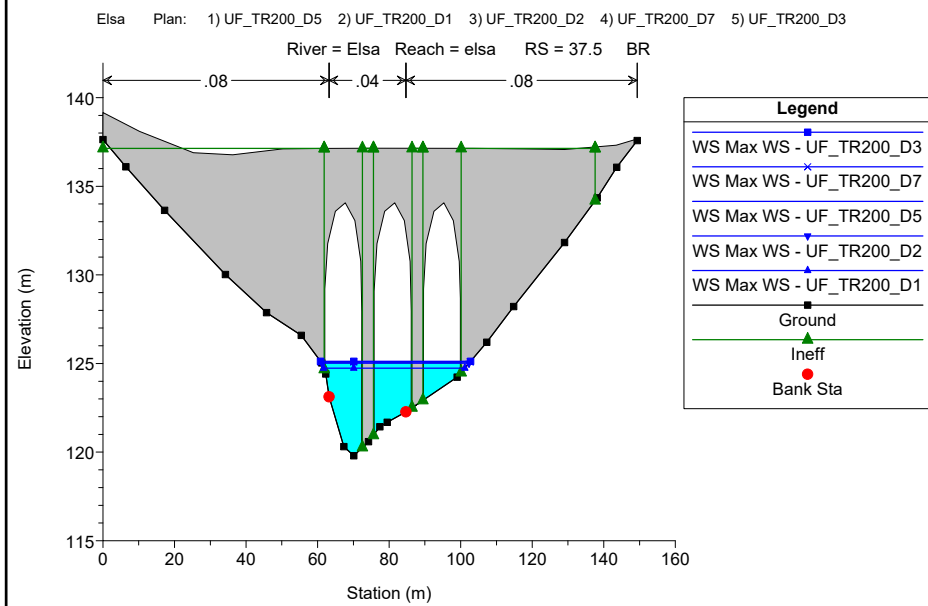
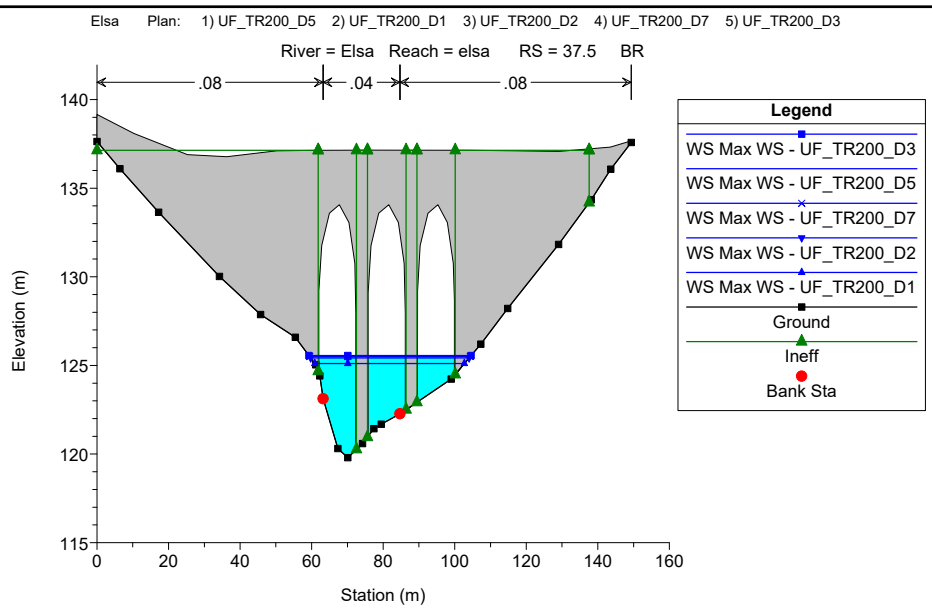
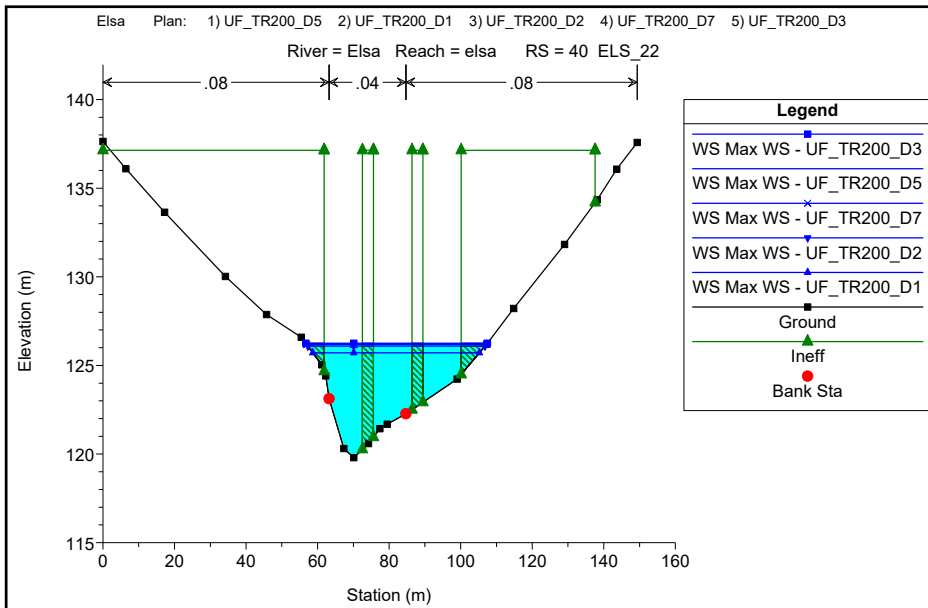


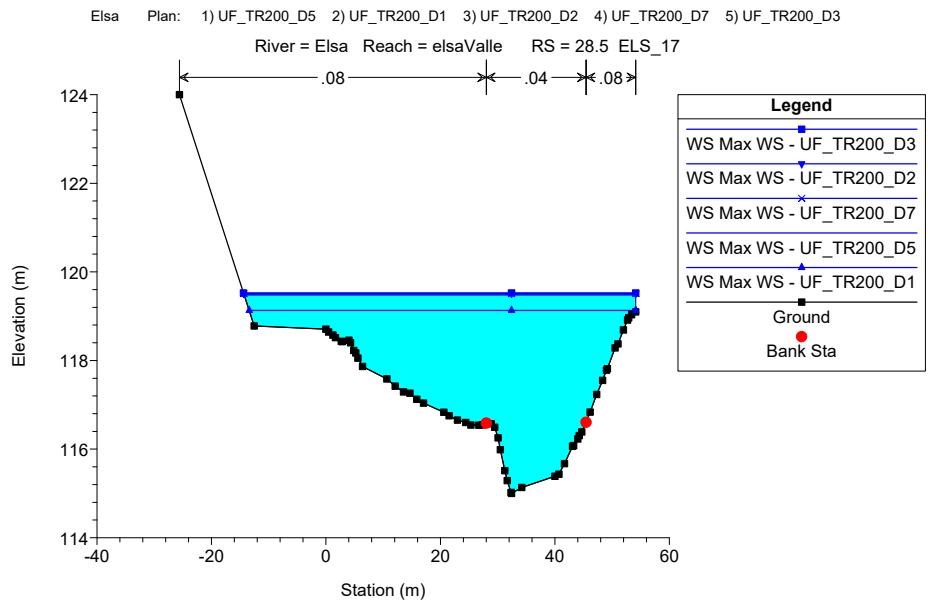
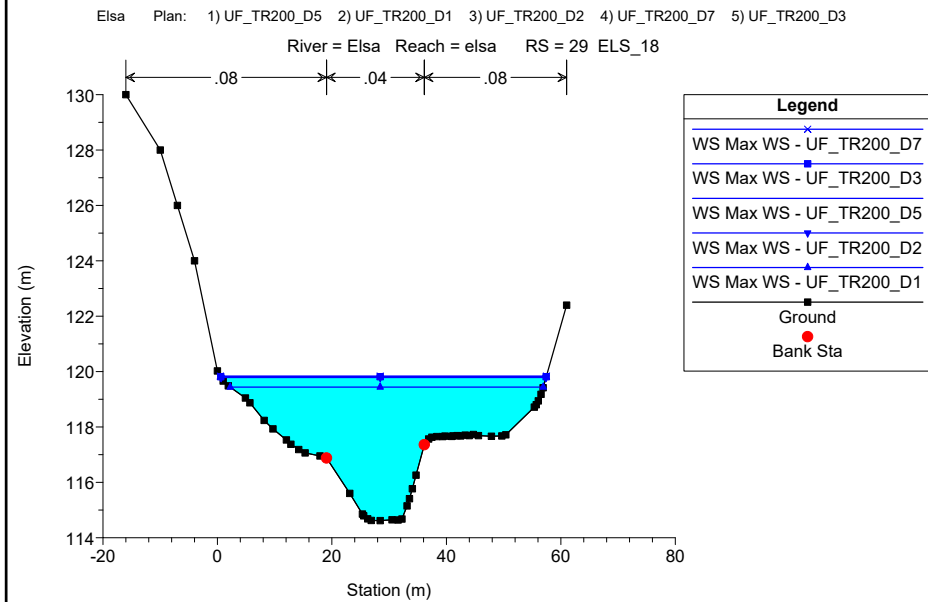
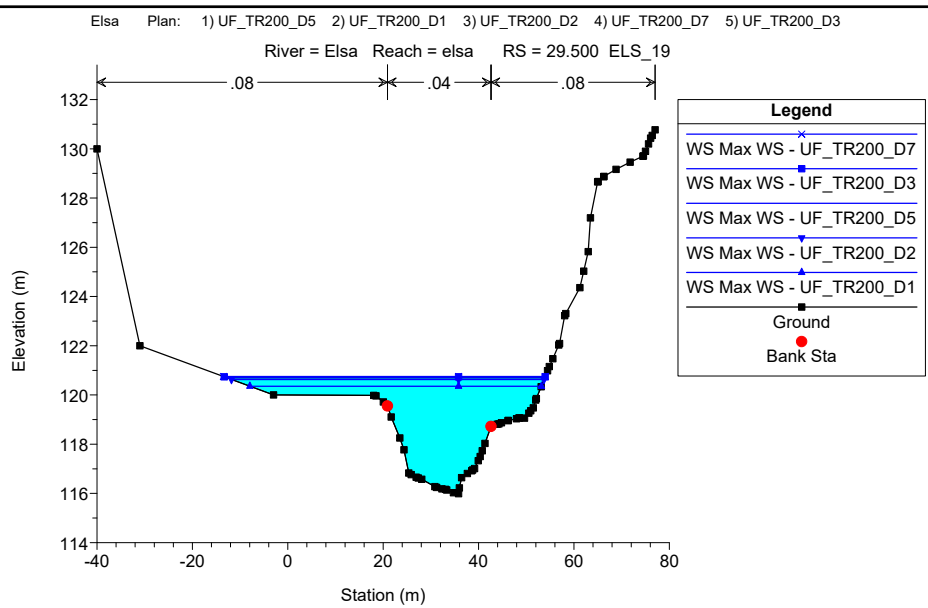
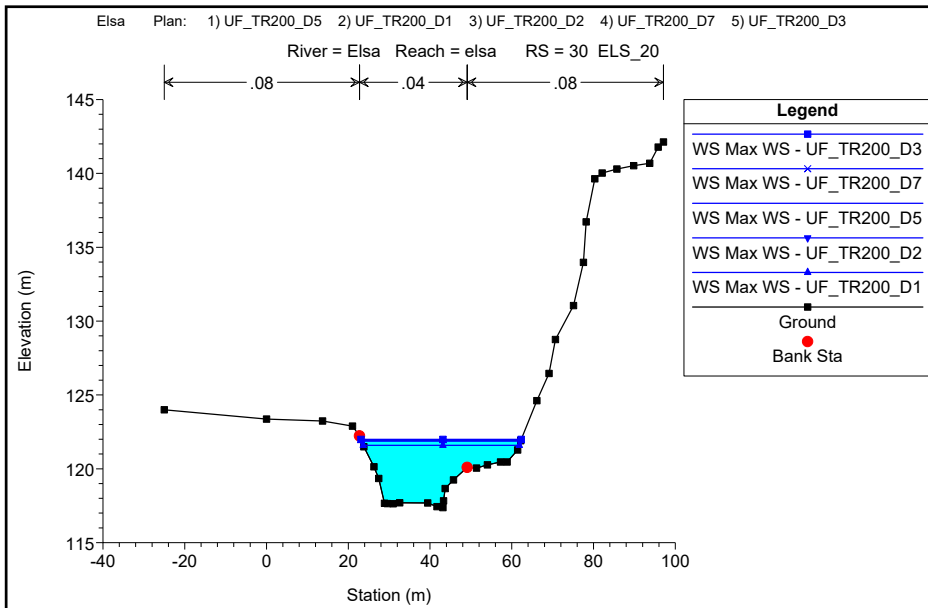


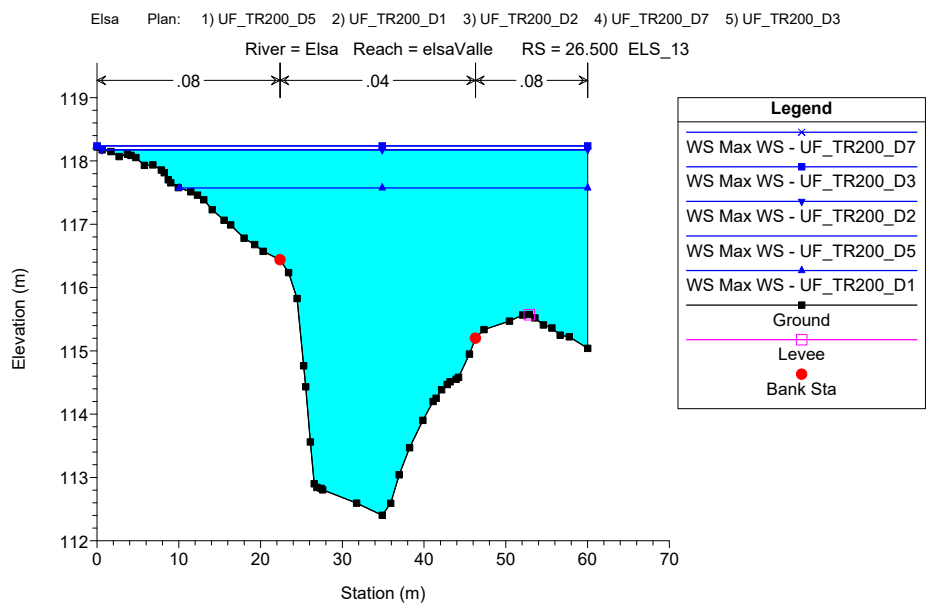
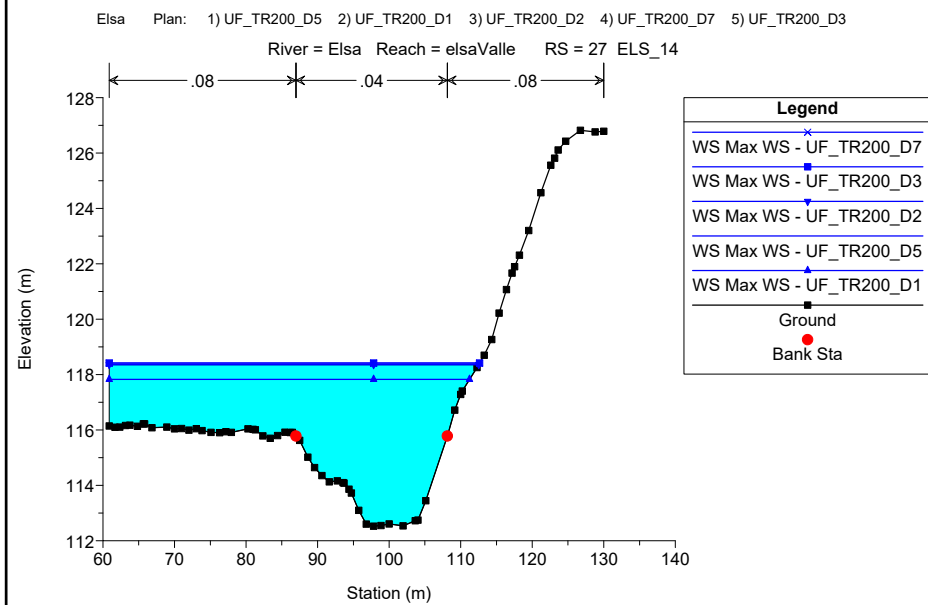
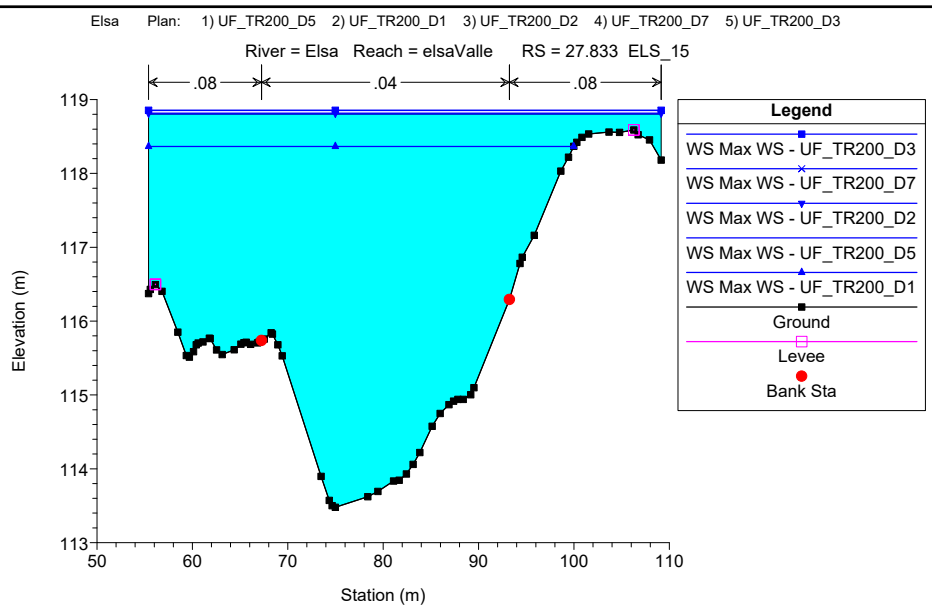
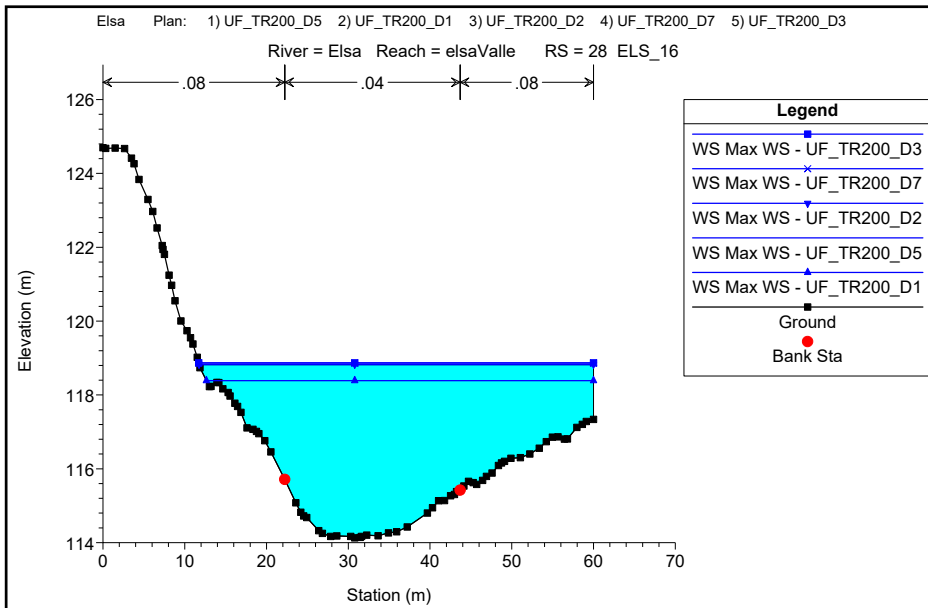


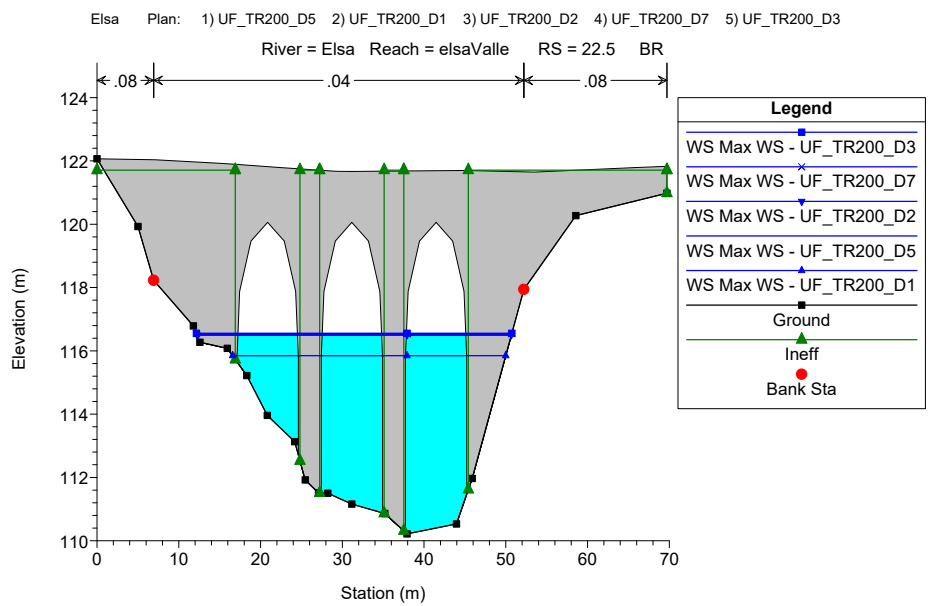
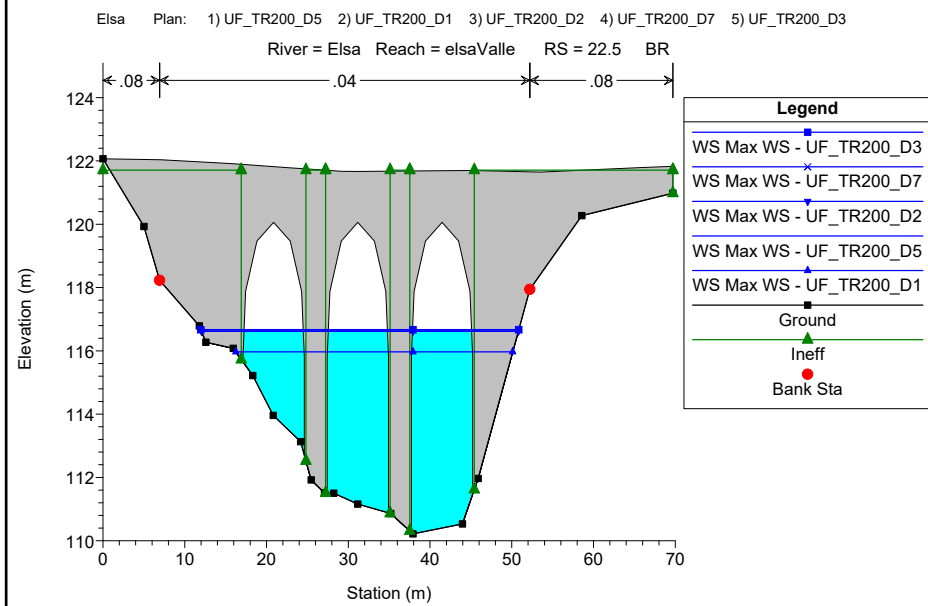
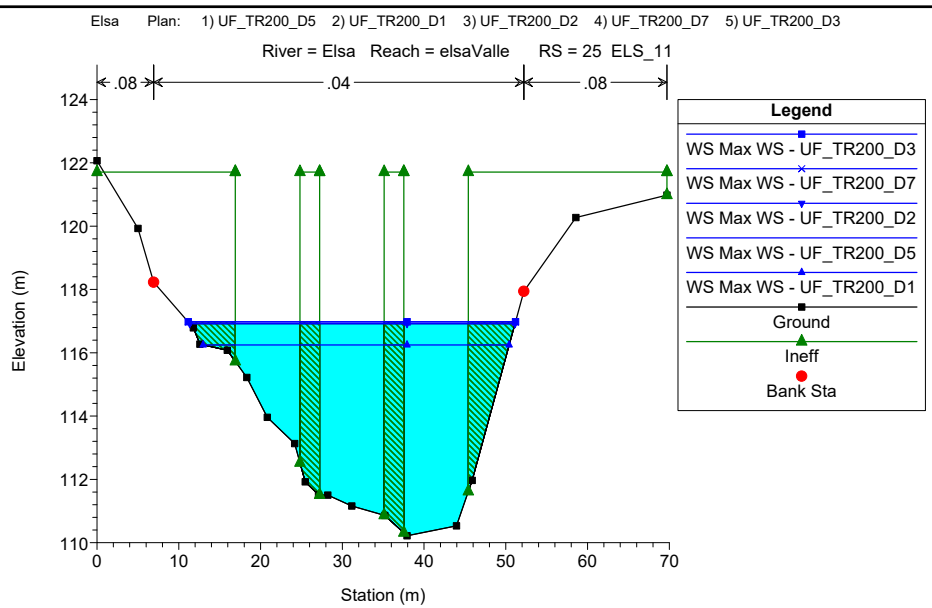
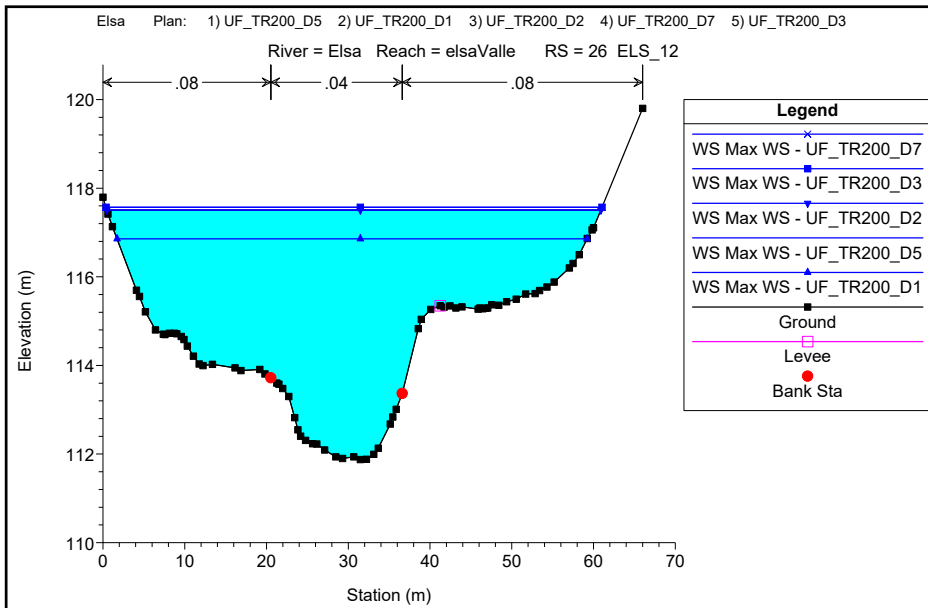


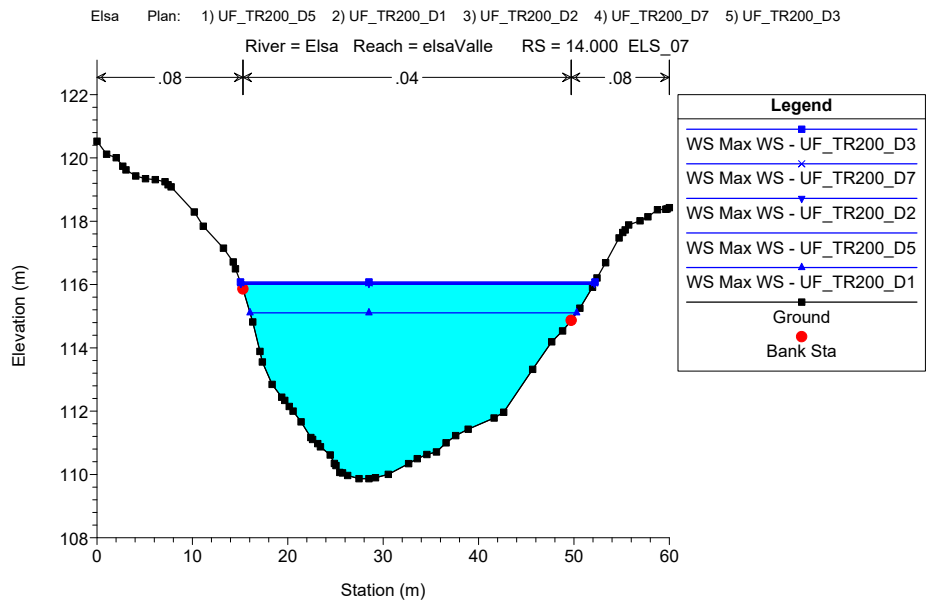
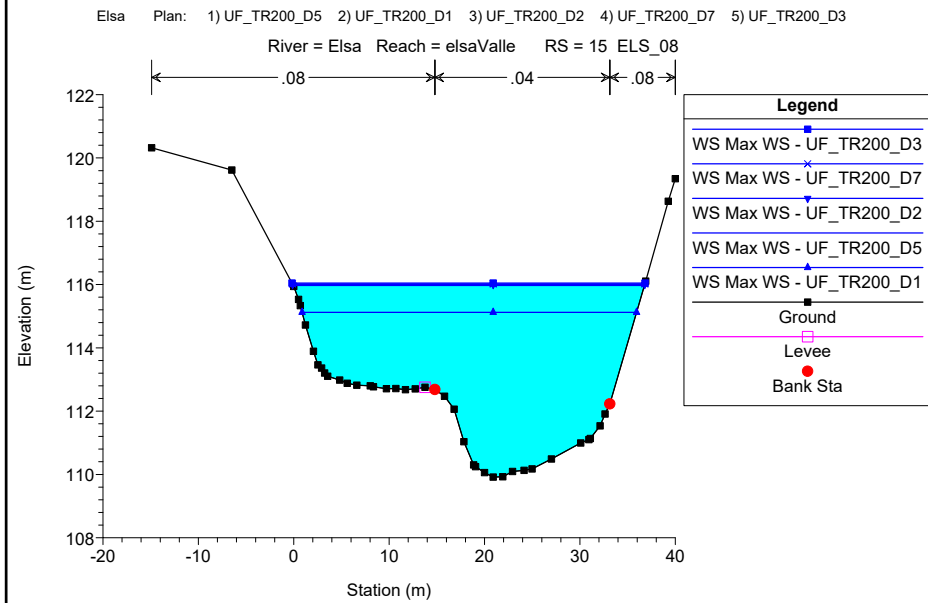
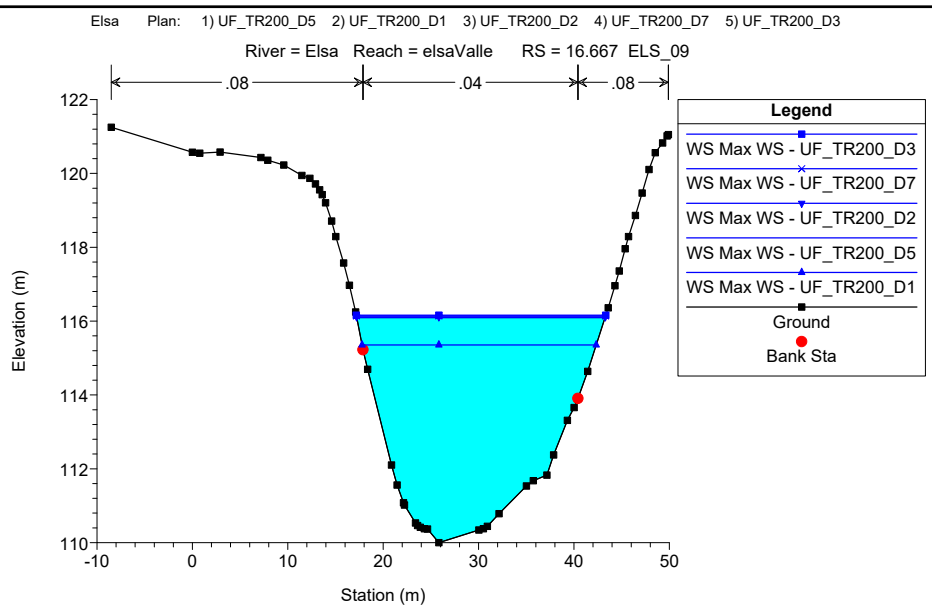
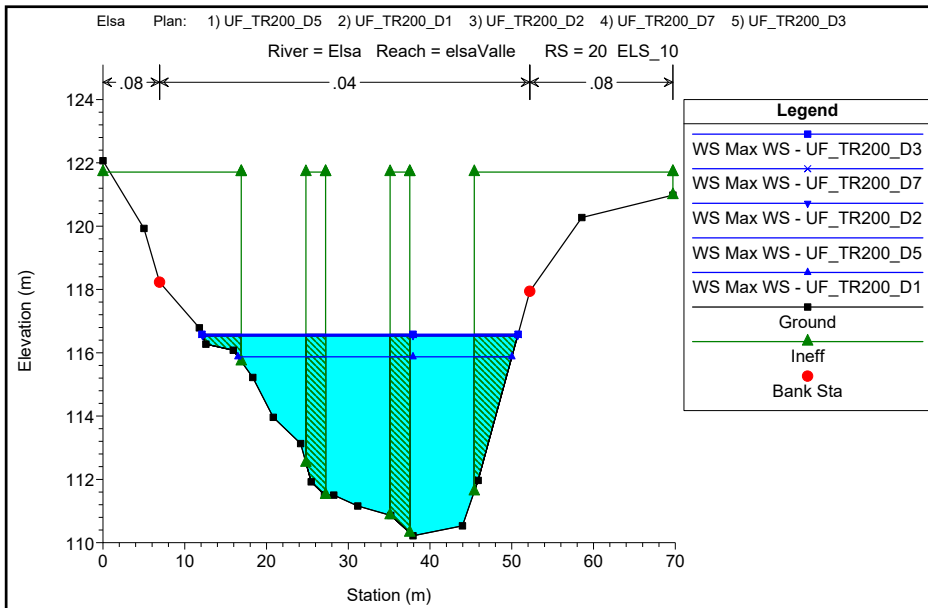


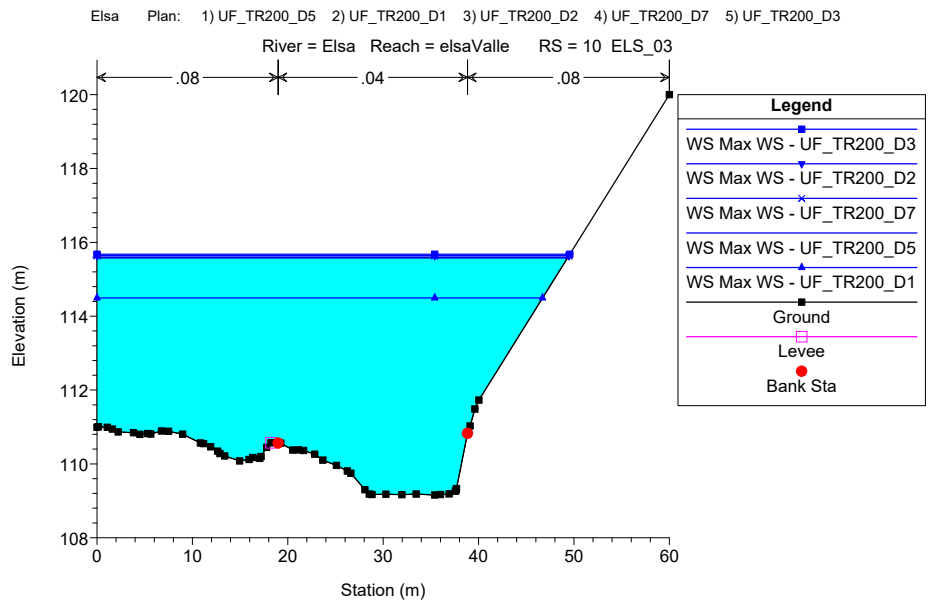
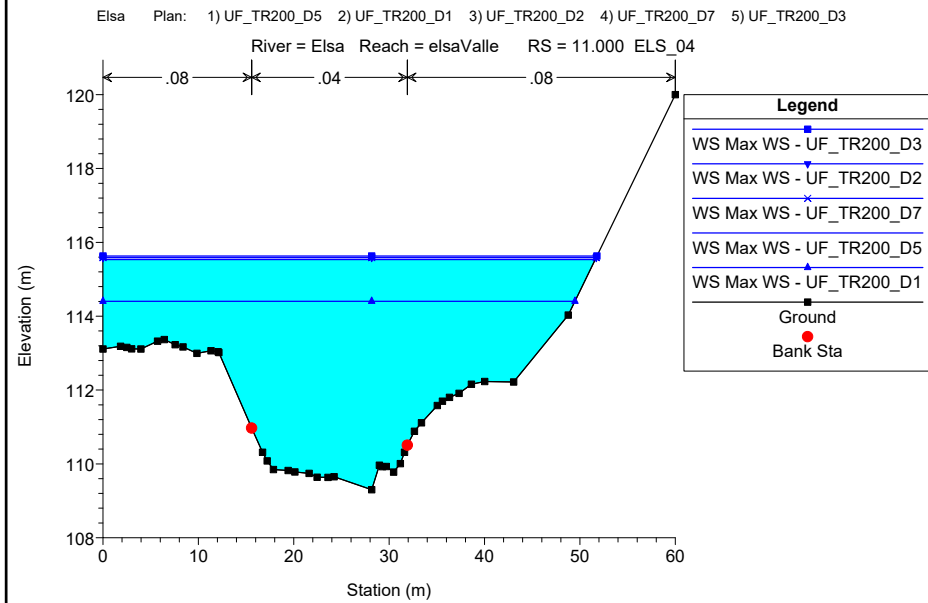
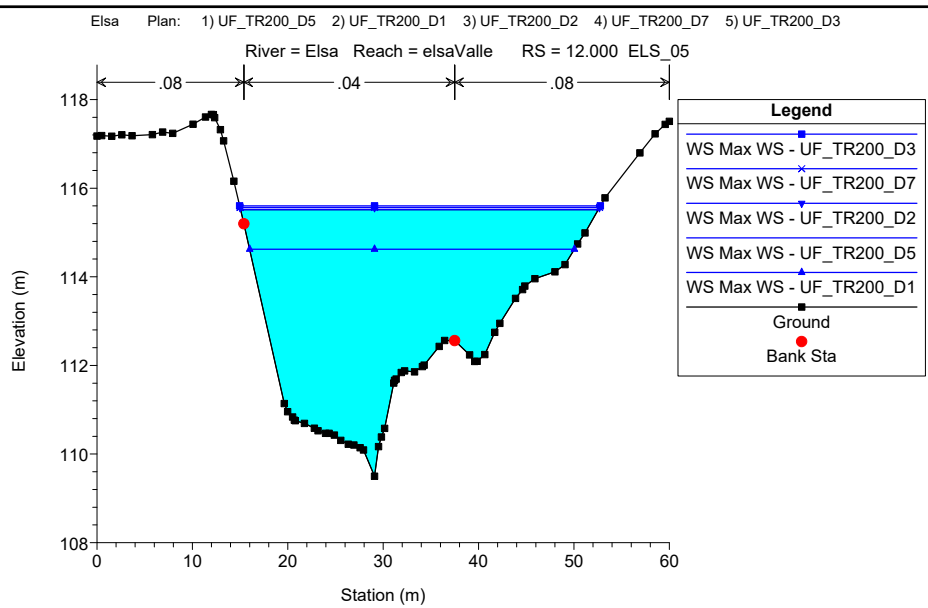
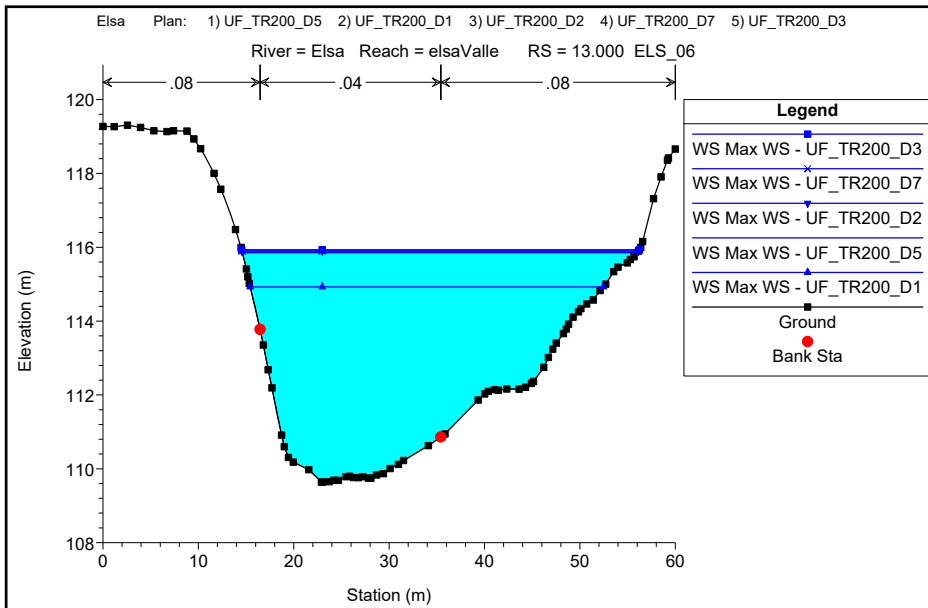


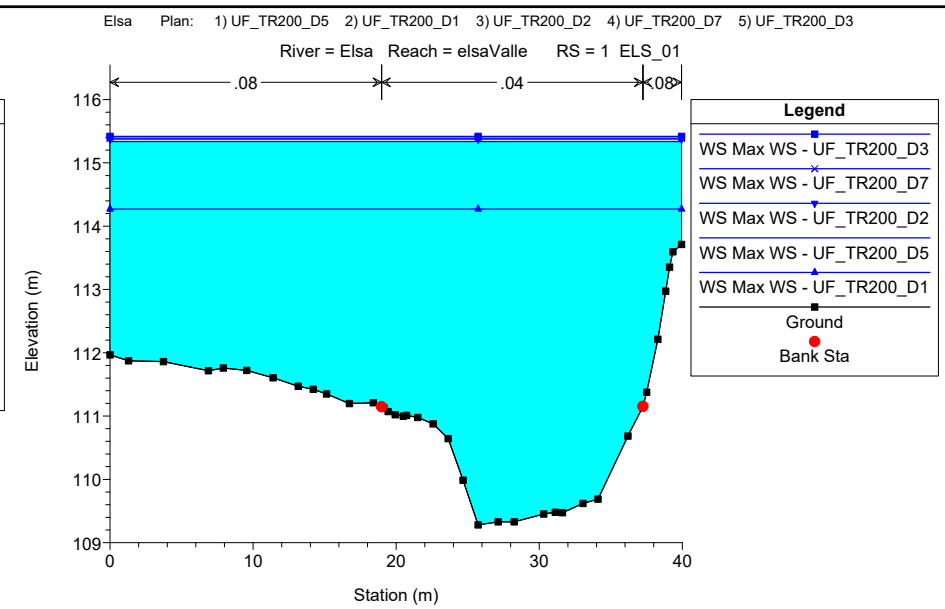
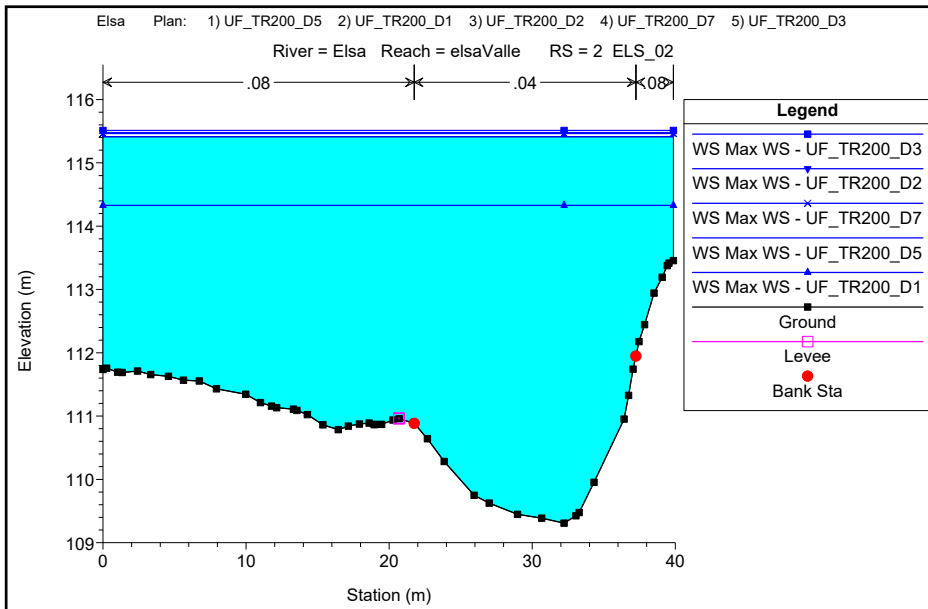












ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FIUME ELSA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FIUME ELSA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
elsaValle	12.000	Max WS	UF_TR200_D2	405.73	109.50	115.56		116.33	0.004699	0.23	4.05	1.30	120.39	37.68	0.64
elsaValle	12.000	Max WS	UF_TR200_D7	415.73	109.50	115.57		116.37	0.004918	0.23	4.14	1.33	120.53	37.69	0.65
elsaValle	12.000	Max WS	UF_TR200_D3	413.85	109.50	115.60		116.38	0.004731	0.24	4.08	1.32	121.82	37.82	0.64
elsaValle	11.000	Max WS	UF_TR200_D5	407.60	109.30	115.53		115.97	0.001814	0.90	3.31	1.06	192.18	51.61	0.44
elsaValle	11.000	Max WS	UF_TR200_D1	332.59	109.30	114.40		114.97	0.002952	0.83	3.65	1.08	134.99	49.48	0.54
elsaValle	11.000	Max WS	UF_TR200_D2	405.58	109.30	115.59		116.01	0.001725	0.89	3.25	1.04	195.19	51.71	0.43
elsaValle	11.000	Max WS	UF_TR200_D7	415.54	109.30	115.59		116.03	0.001817	0.91	3.33	1.07	194.92	51.70	0.44
elsaValle	11.000	Max WS	UF_TR200_D3	413.47	109.30	115.63		116.06	0.001746	0.90	3.28	1.05	197.18	51.79	0.43
elsaValle	10	Max WS	UF_TR200_D5	407.61	109.16	115.58		115.84	0.001015	1.00	2.53	0.63	235.29	49.34	0.33
elsaValle	10	Max WS	UF_TR200_D1	332.59	109.16	114.49		114.76	0.001390	1.02	2.59	0.61	182.95	46.71	0.38
elsaValle	10	Max WS	UF_TR200_D2	405.54	109.16	115.64		115.88	0.000972	0.99	2.50	0.62	238.04	49.47	0.33
elsaValle	10	Max WS	UF_TR200_D7	415.61	109.16	115.64		115.89	0.001023	1.01	2.56	0.64	237.90	49.47	0.33
elsaValle	10	Max WS	UF_TR200_D3	413.60	109.16	115.68		115.93	0.000989	1.00	2.53	0.63	239.95	49.57	0.33
elsaValle	2	Max WS	UF_TR200_D5	407.57	109.31	115.41		115.84	0.002038	1.31	3.36	0.68	181.74	39.87	0.46
elsaValle	2	Max WS	UF_TR200_D1	313.43	109.31	114.33		114.76	0.002699	1.27	3.34	0.64	138.43	39.87	0.51
elsaValle	2	Max WS	UF_TR200_D2	405.49	109.31	115.48		115.89	0.001937	1.29	3.30	0.67	184.24	39.87	0.45
elsaValle	2	Max WS	UF_TR200_D7	415.30	109.31	115.46		115.90	0.002048	1.32	3.39	0.69	183.76	39.87	0.46
elsaValle	2	Max WS	UF_TR200_D3	412.79	109.31	115.51		115.93	0.001962	1.30	3.34	0.68	185.65	39.87	0.45
elsaValle	1	Max WS	UF_TR200_D5	419.23	109.28	115.34	113.52	115.81	0.002111	1.24	3.39	0.70	174.52	39.95	0.47
elsaValle	1	Max WS	UF_TR200_D1	334.09	109.28	114.27	113.11	114.79	0.003037	1.22	3.50	0.70	131.96	39.95	0.54
elsaValle	1	Max WS	UF_TR200_D2	424.65	109.28	115.38	113.54	115.85	0.002110	1.24	3.40	0.70	176.05	39.95	0.47
elsaValle	1	Max WS	UF_TR200_D7	426.65	109.28	115.39	113.54	115.87	0.002110	1.25	3.41	0.71	176.63	39.95	0.47
elsaValle	1	Max WS	UF_TR200_D3	430.74	109.28	115.42	113.56	115.90	0.002111	1.25	3.42	0.71	177.75	39.95	0.47

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DI RICORBOLI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

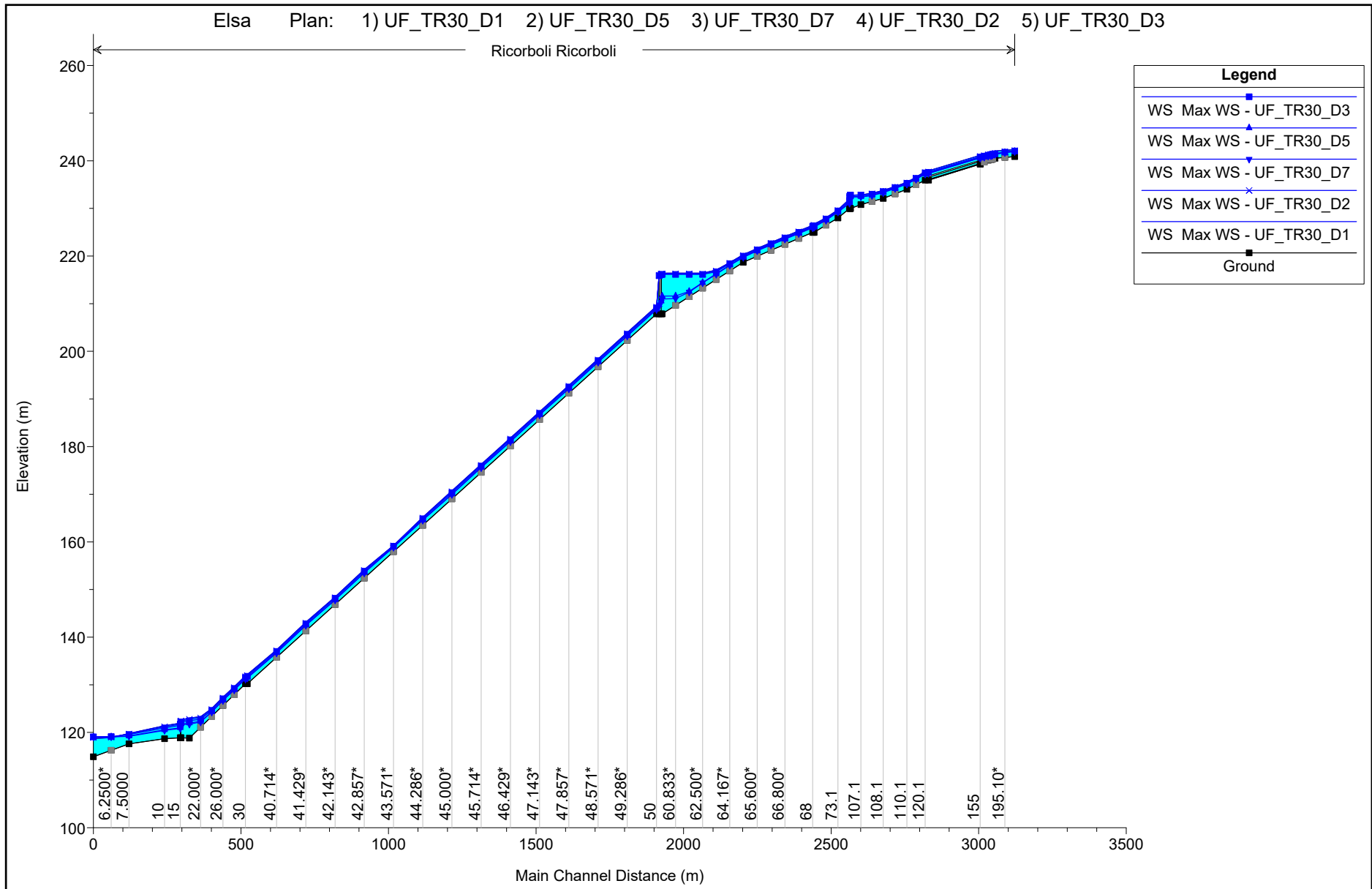
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DI RICORBOLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

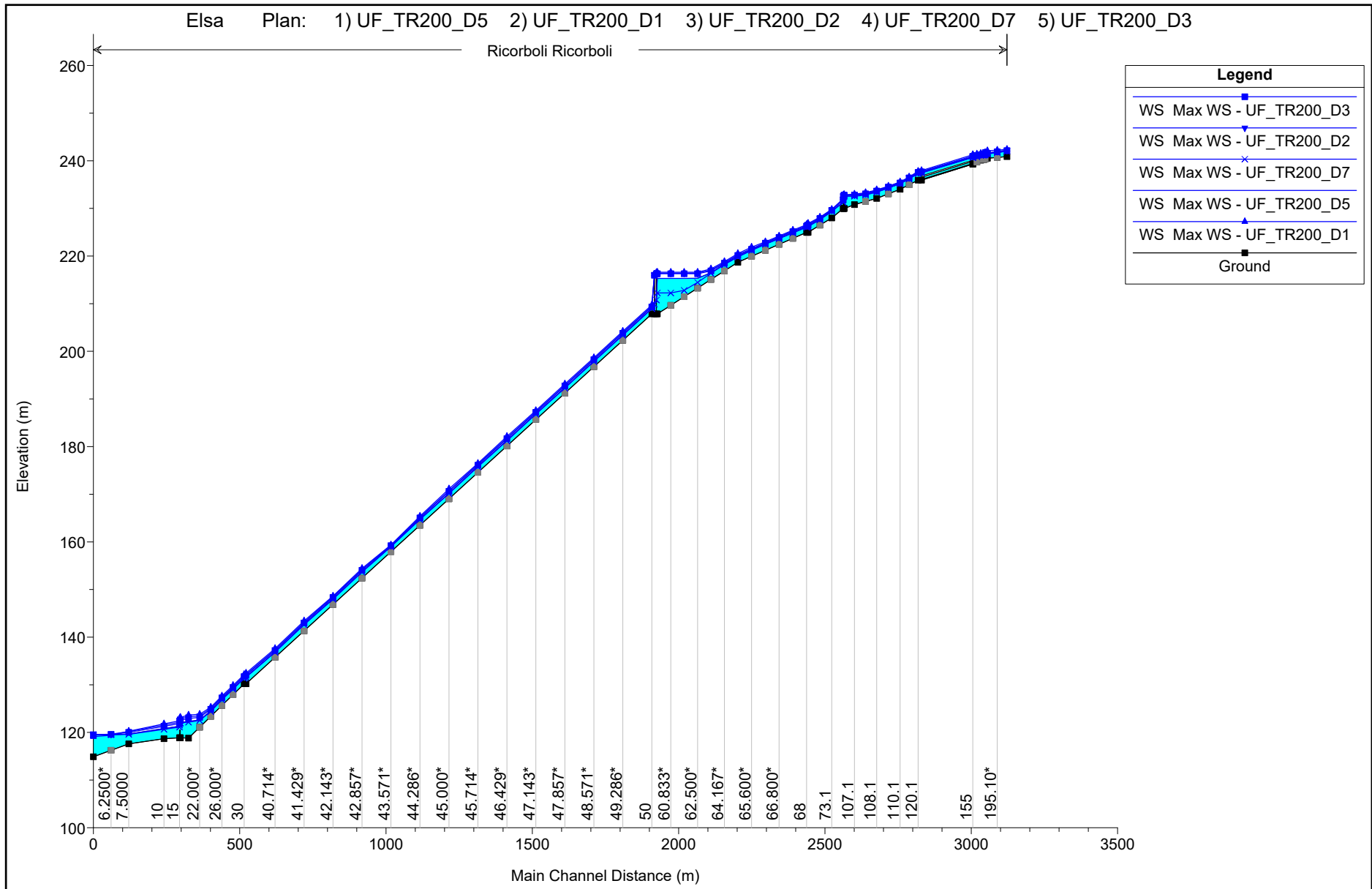
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DI RICORBOLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

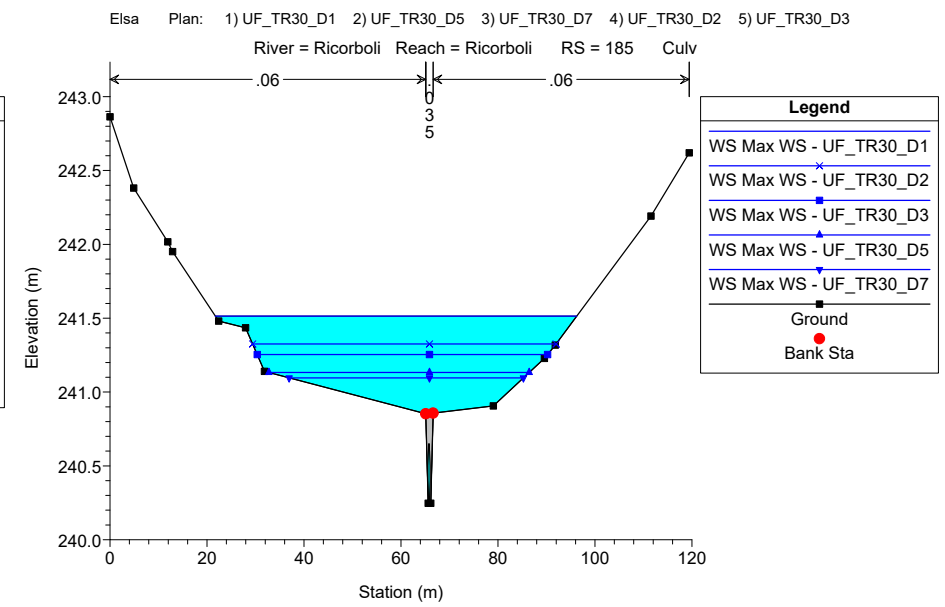
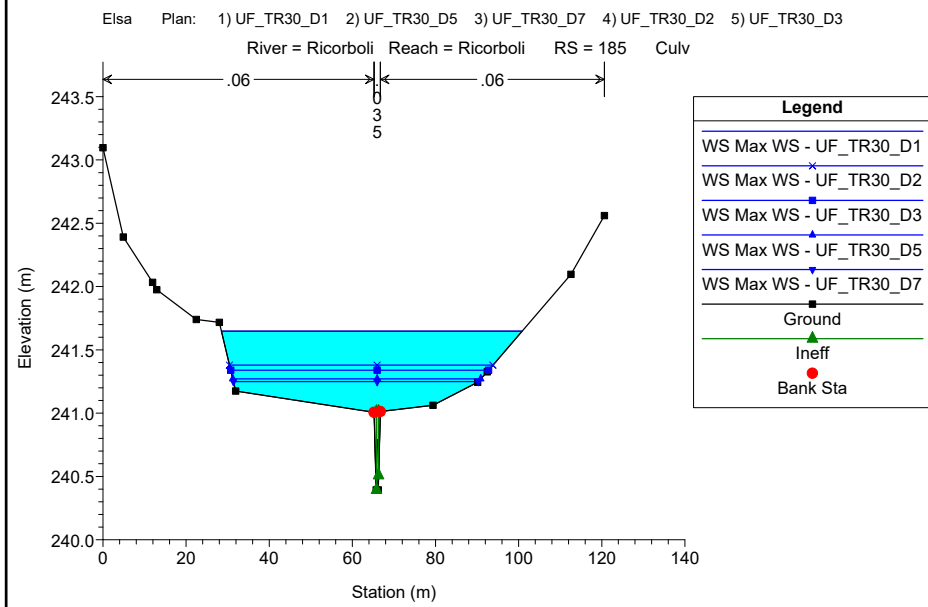
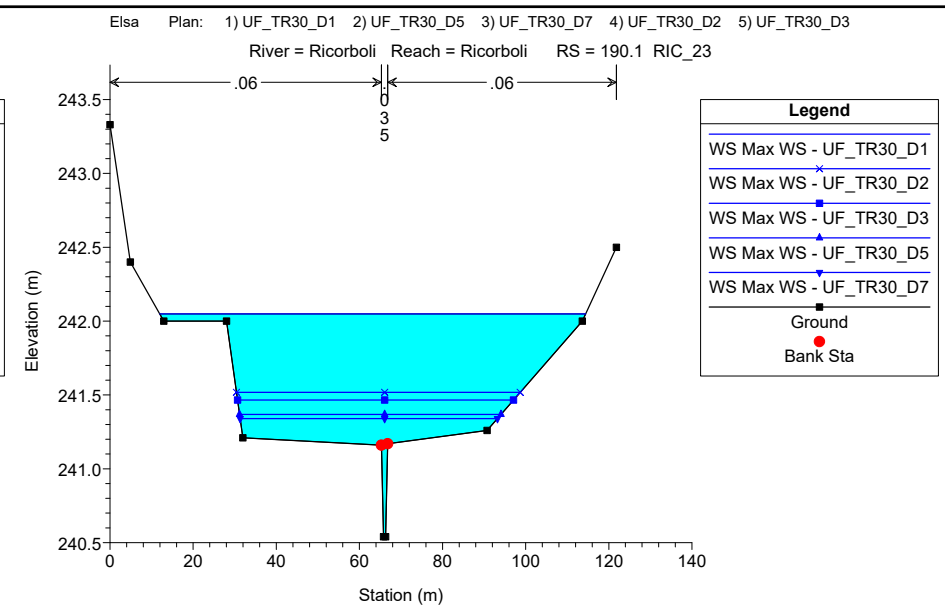
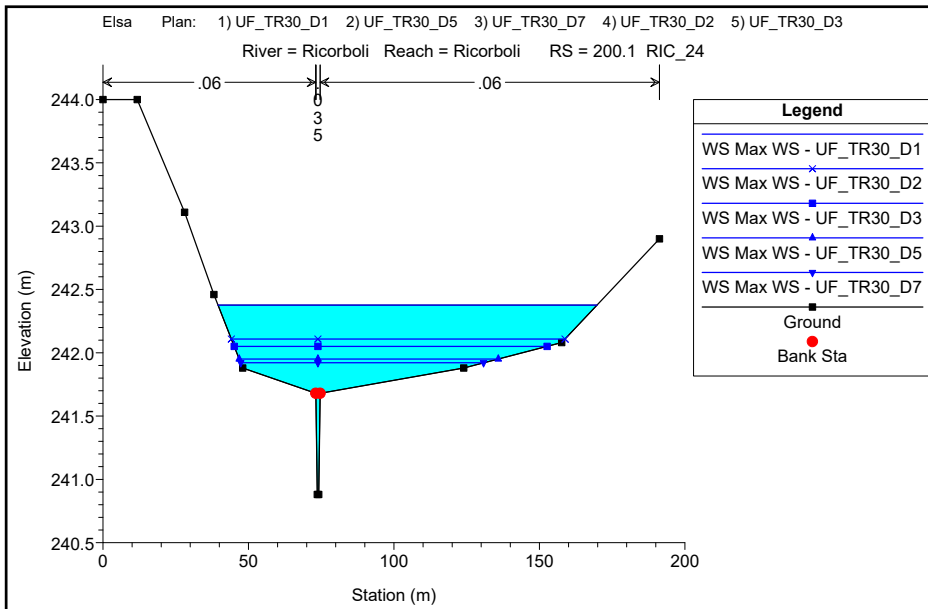
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

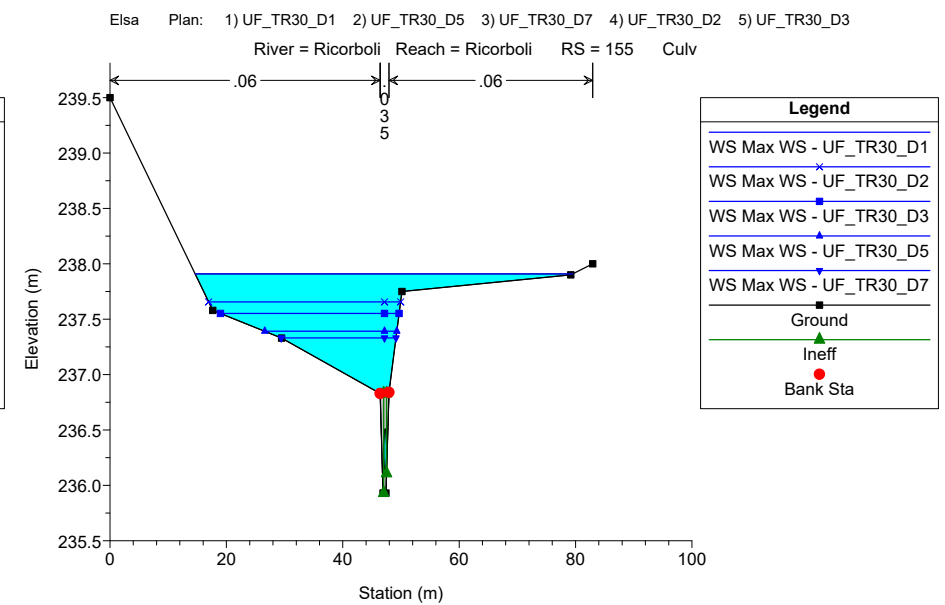
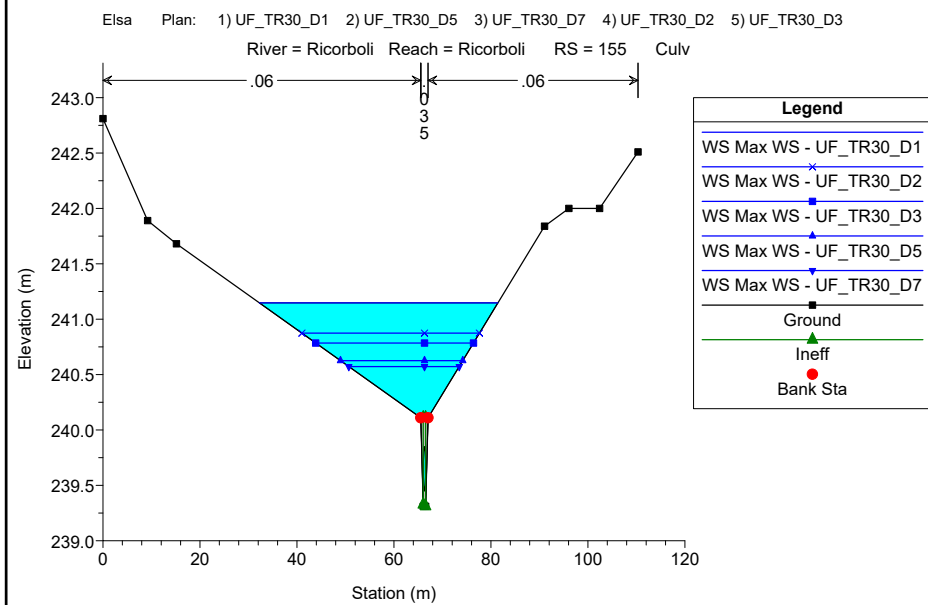
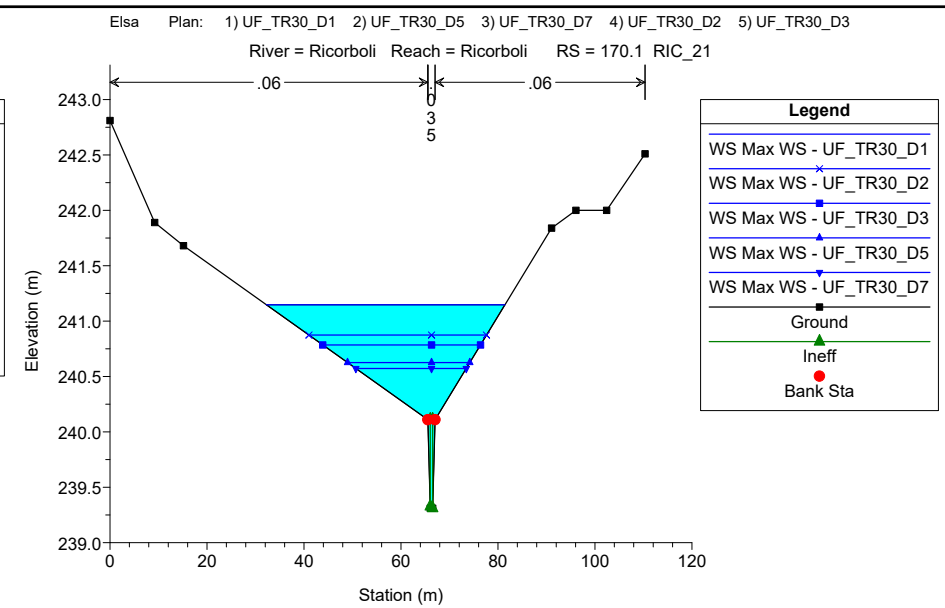
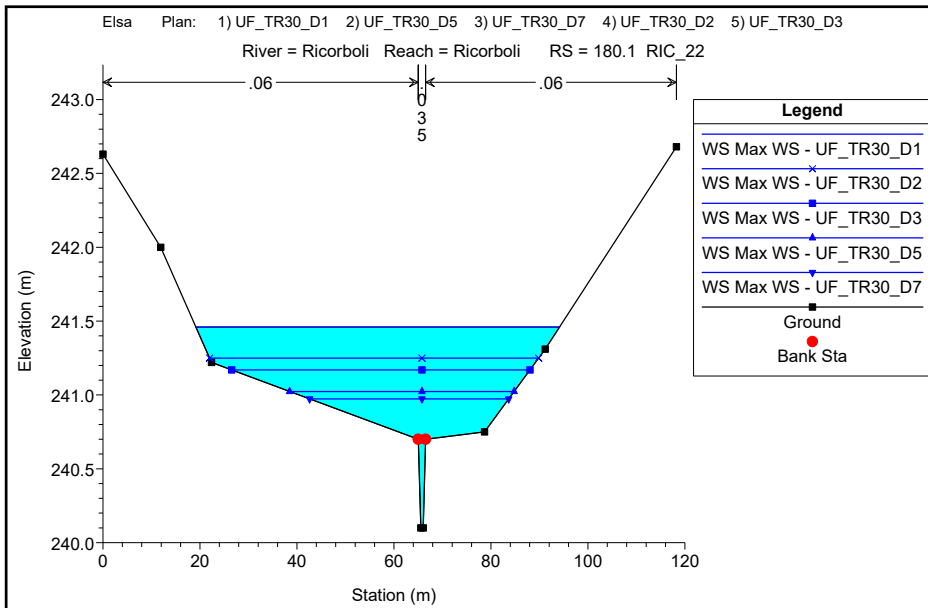
BOTRO DI RICORBOLI

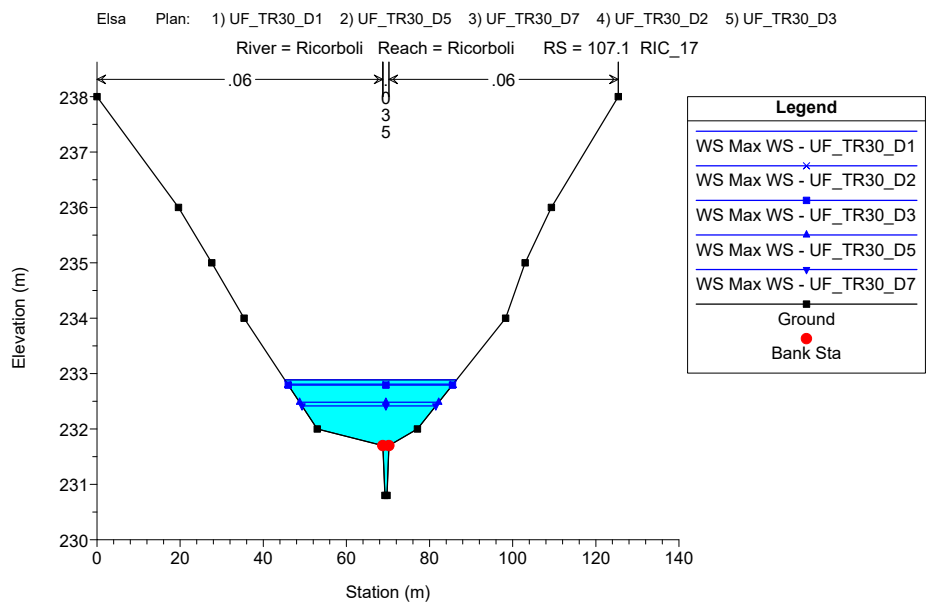
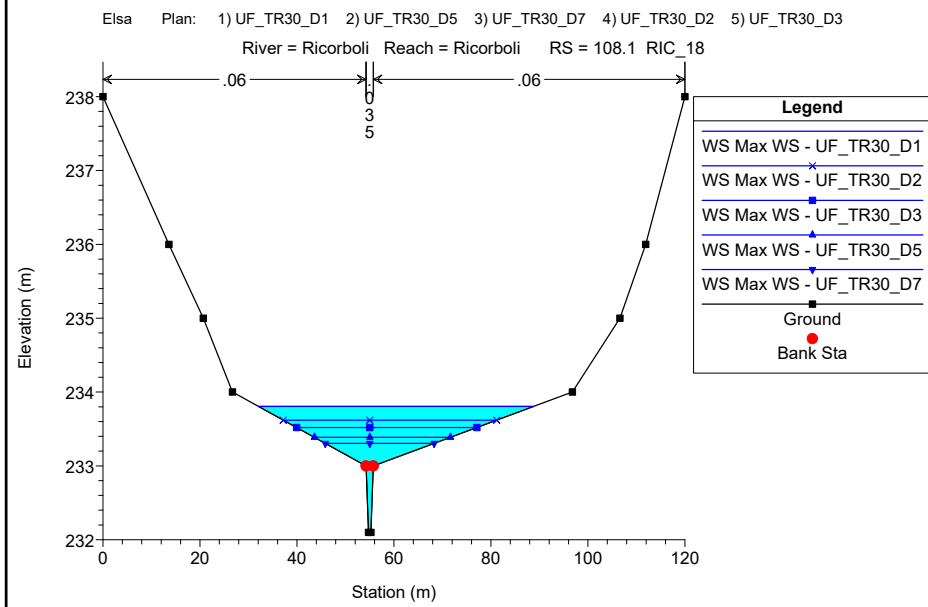
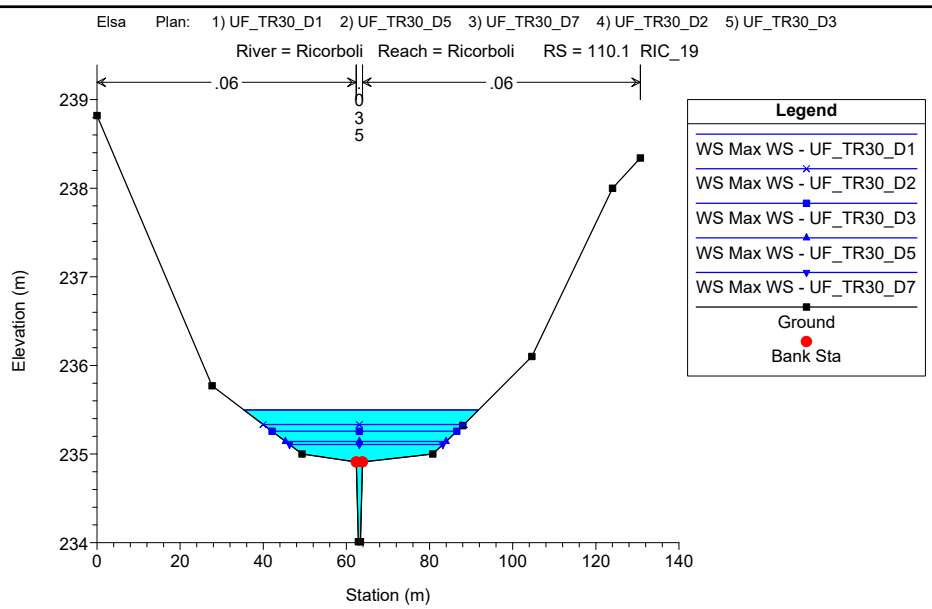
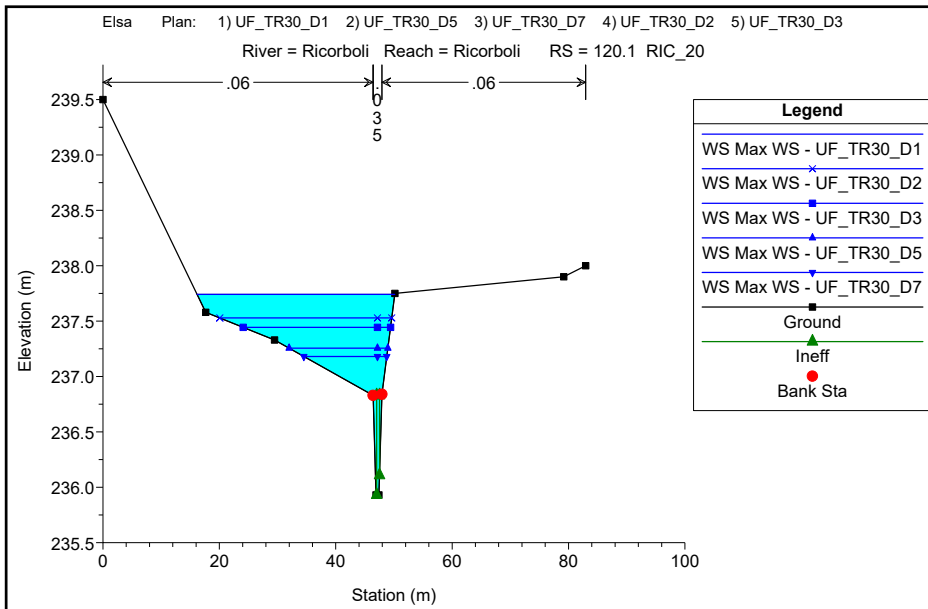
MODELLAZIONE PER TR=30 anni

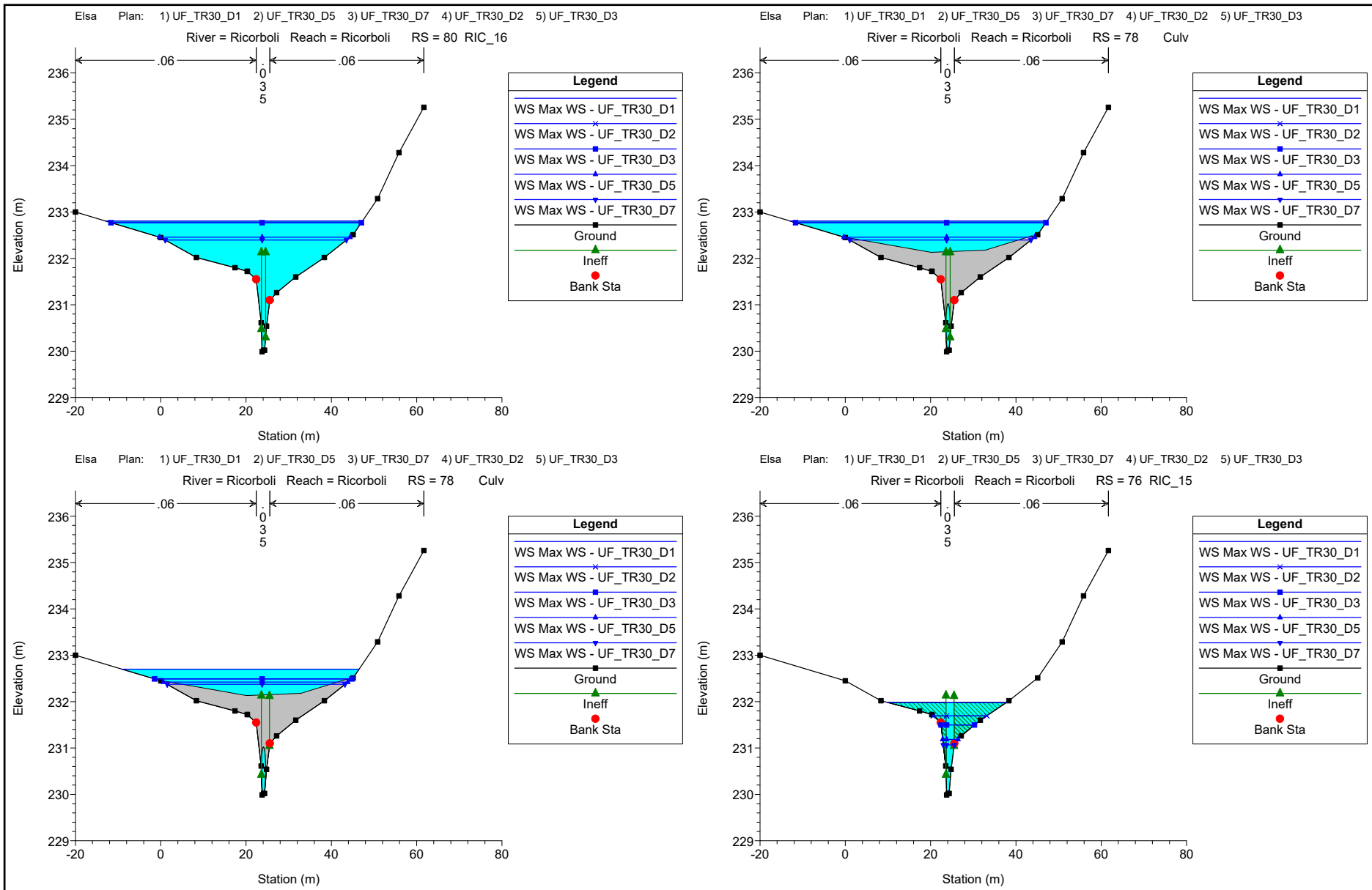
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

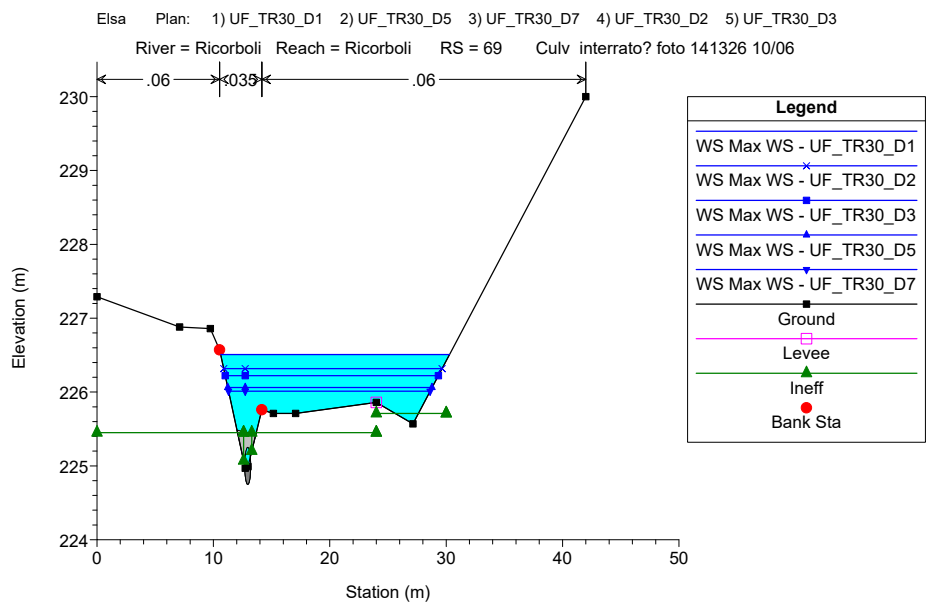
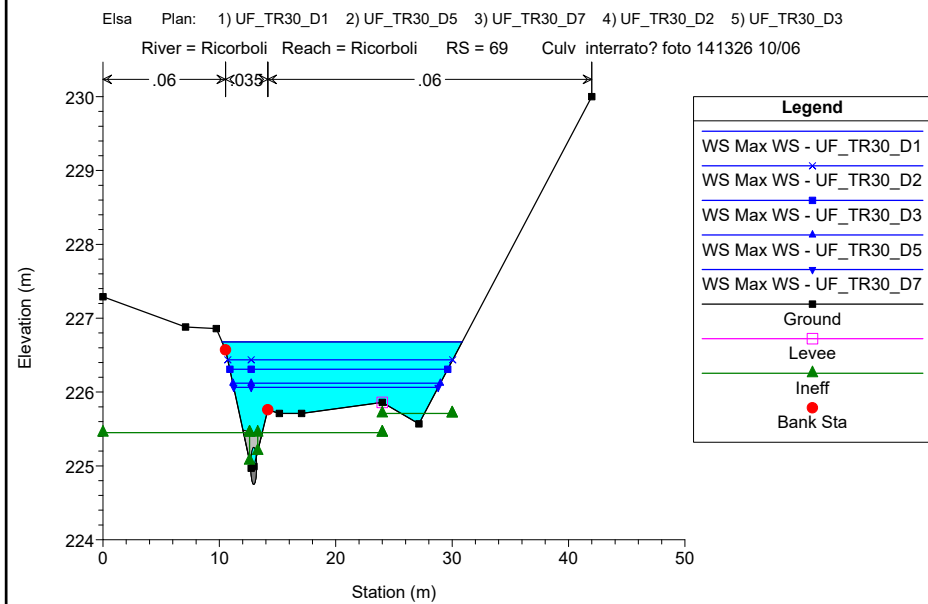
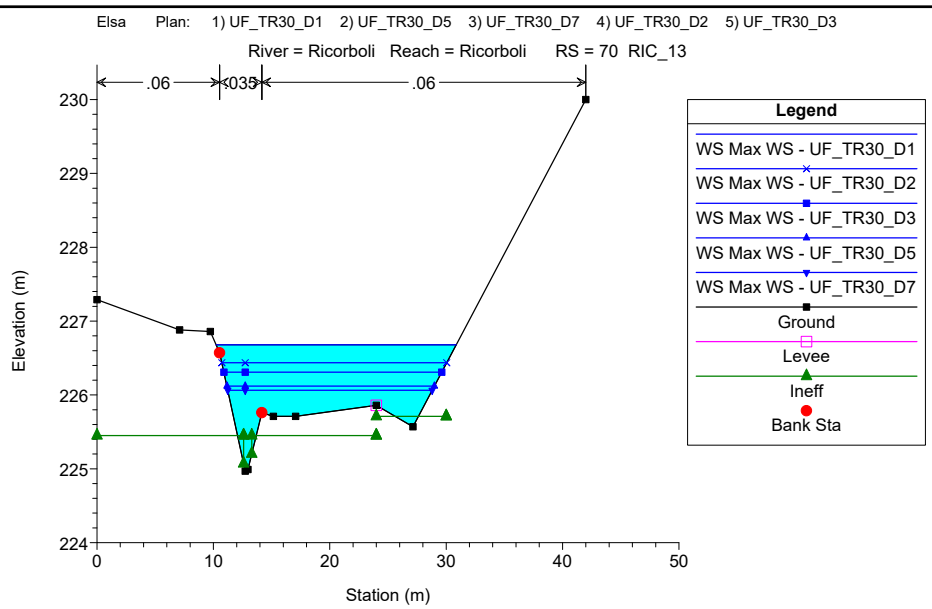
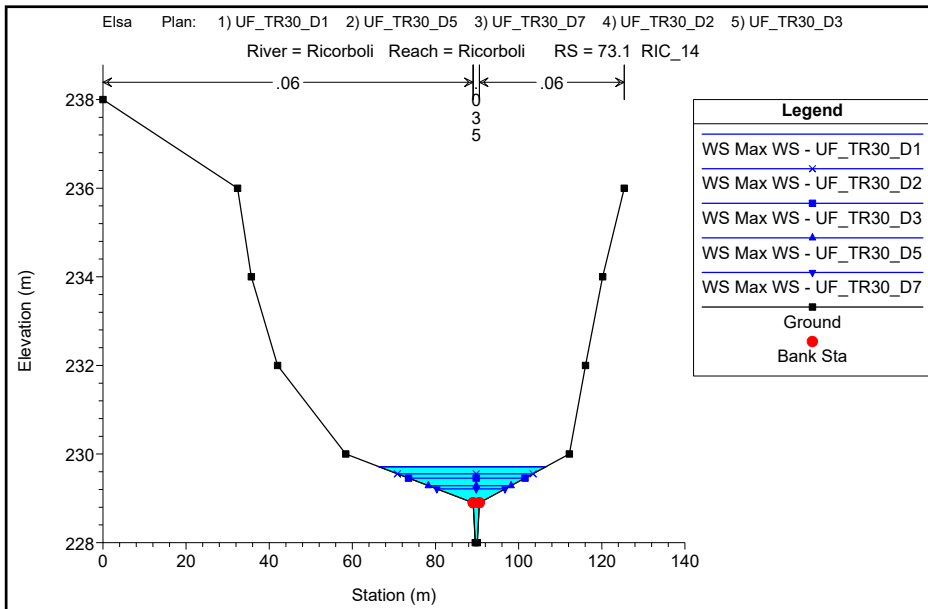
Sezioni Trasversali (da monte verso valle)

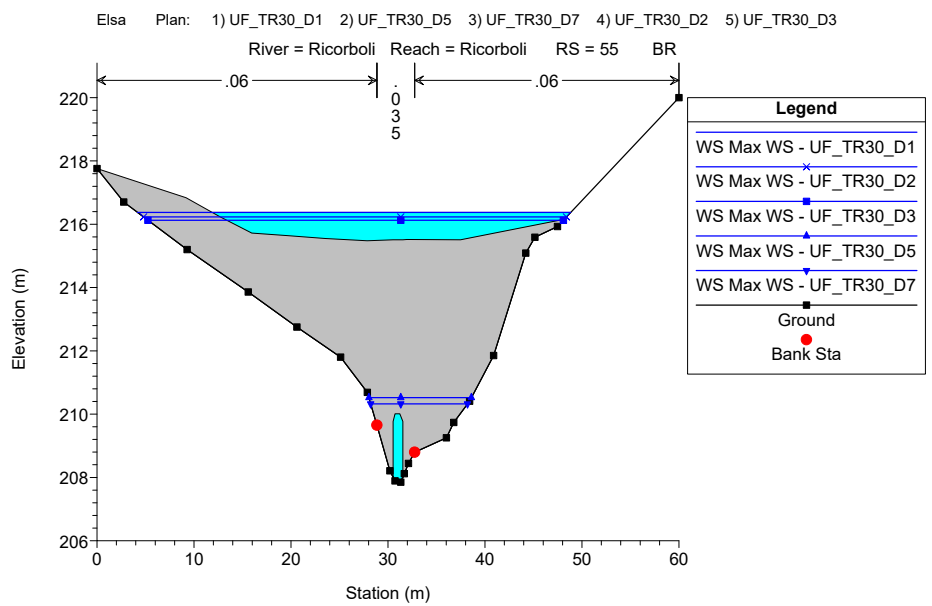
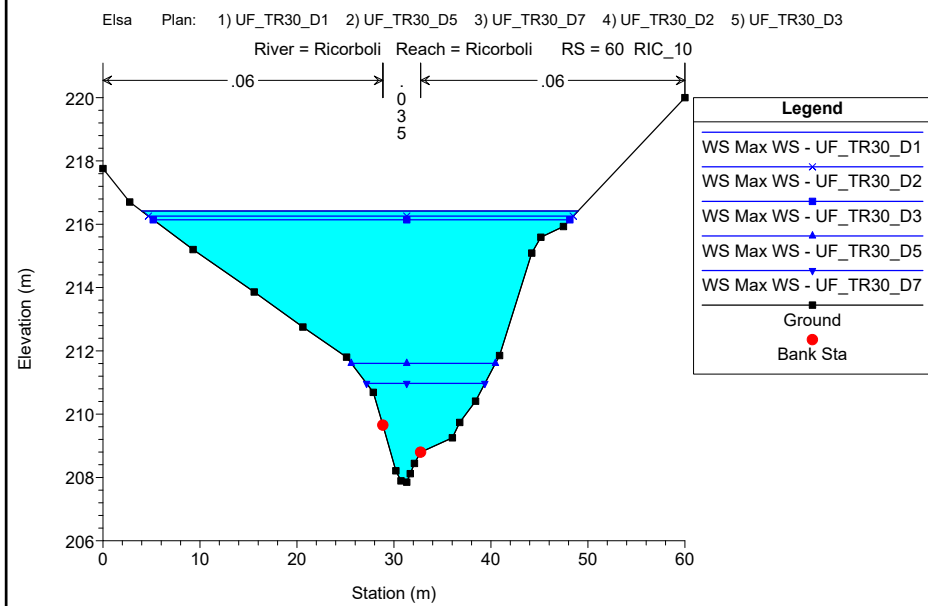
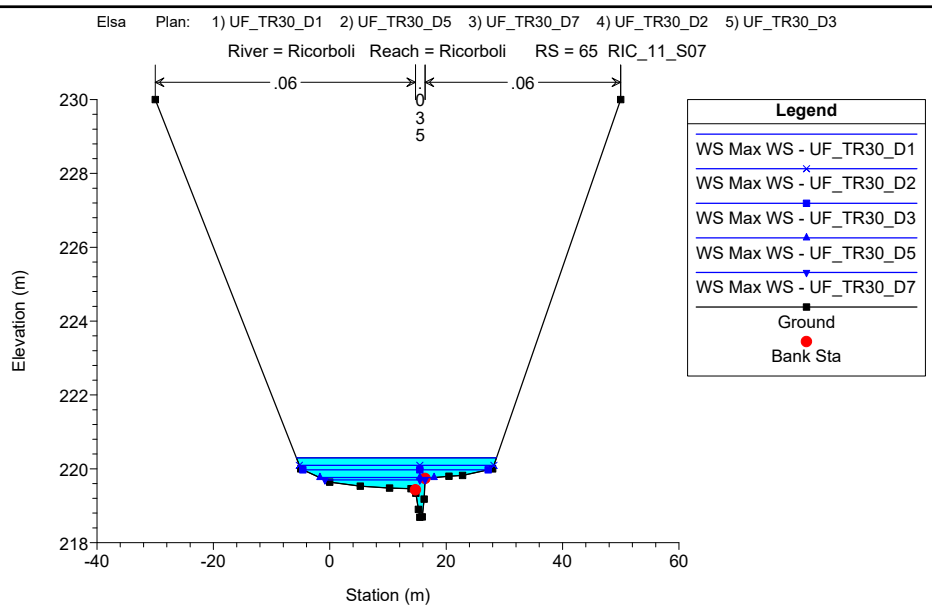
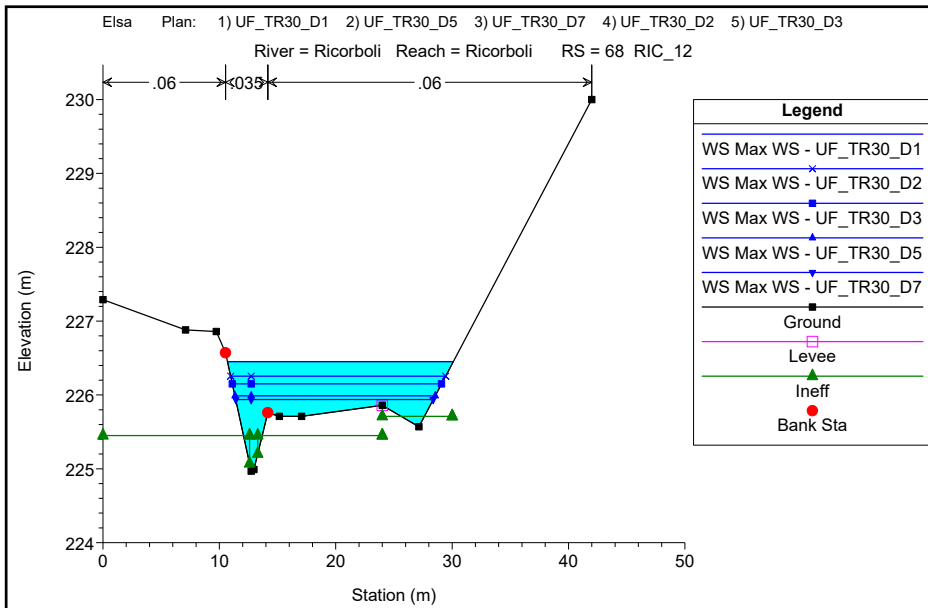


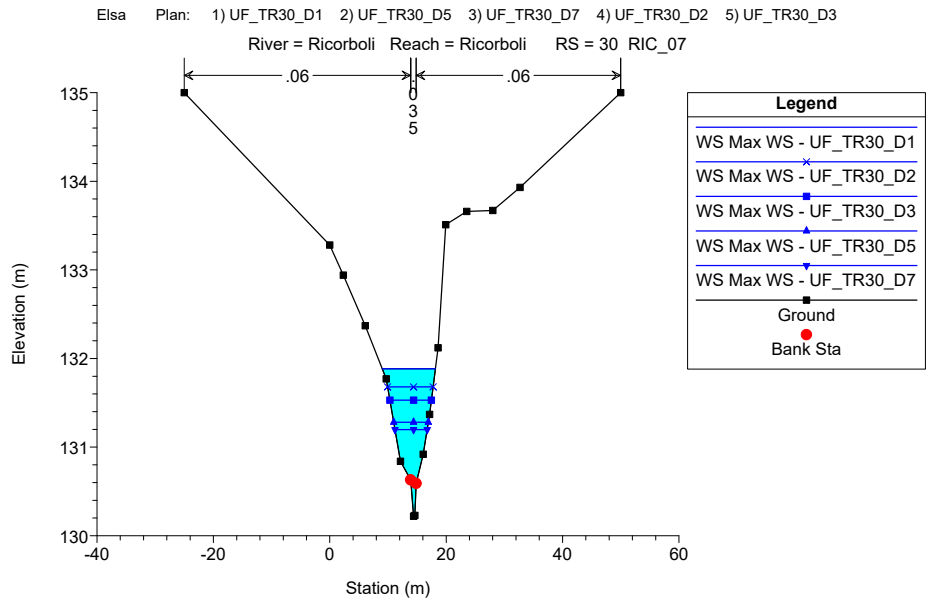
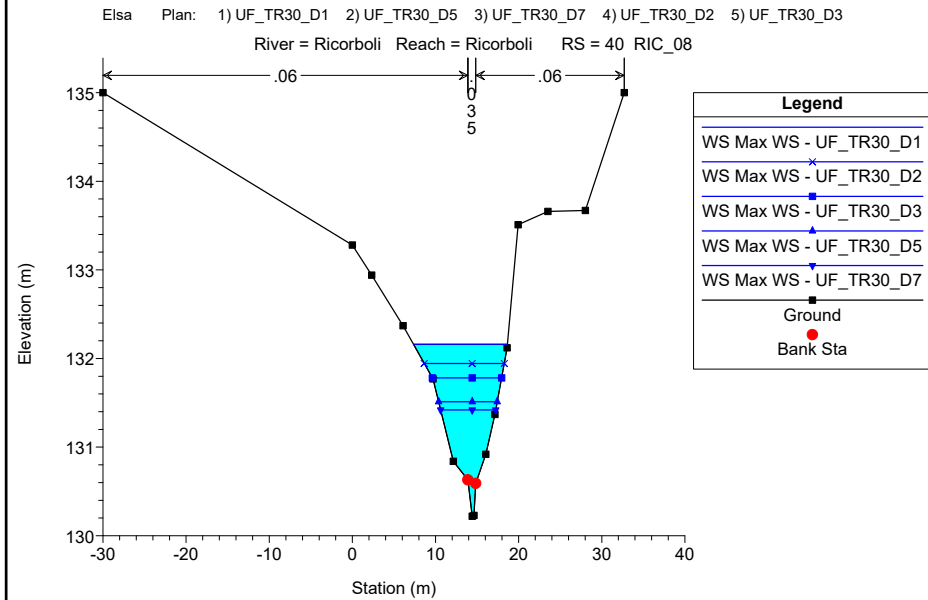
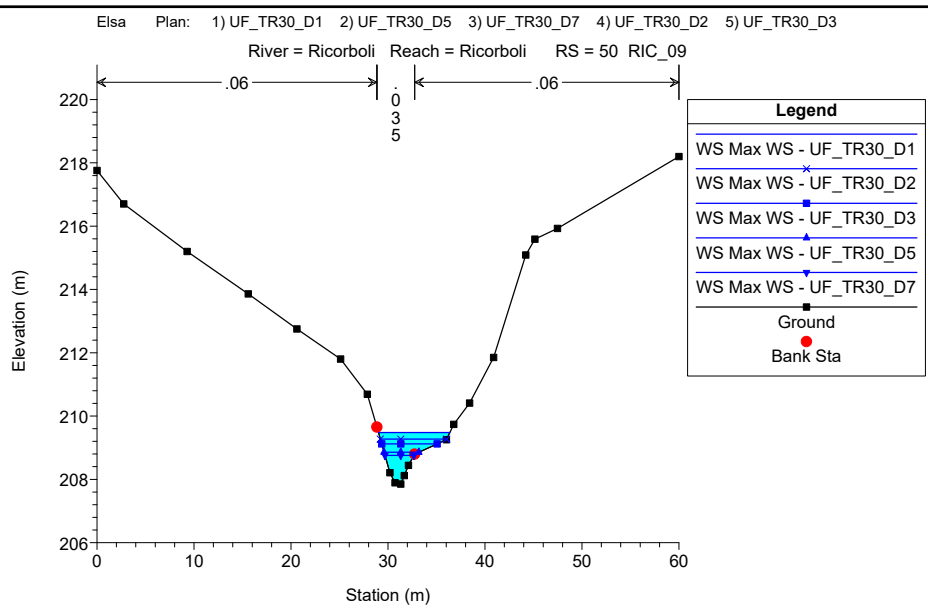
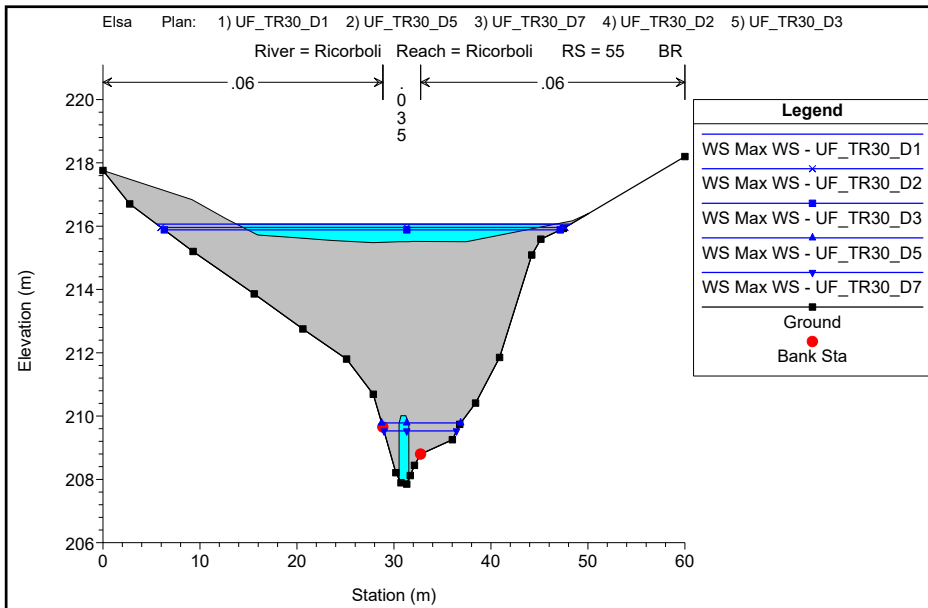


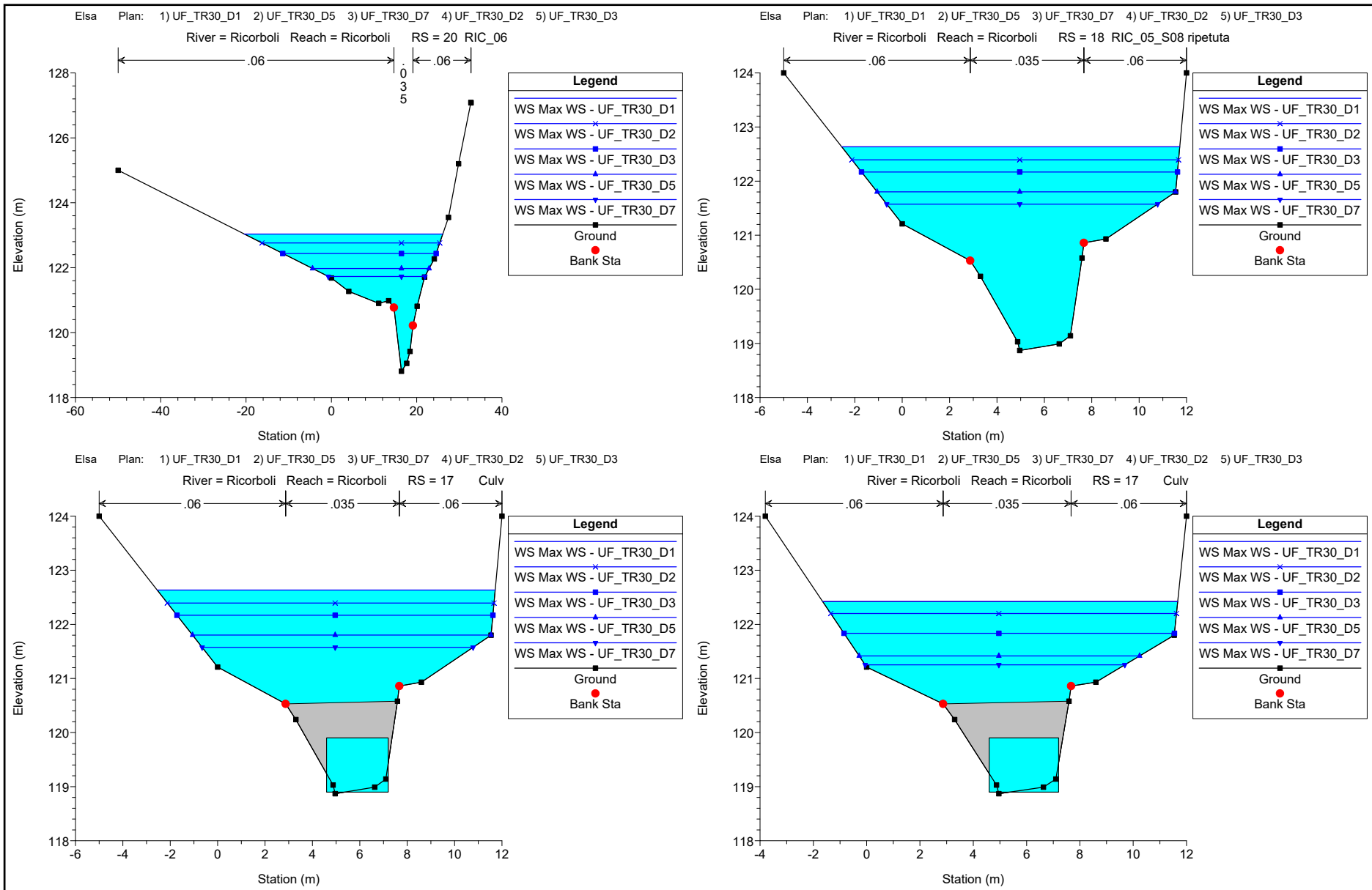


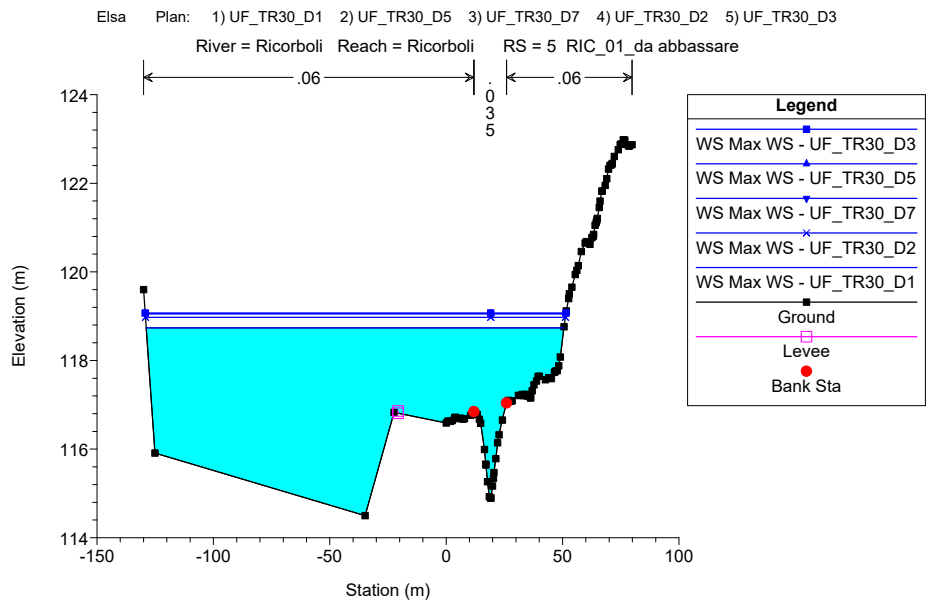
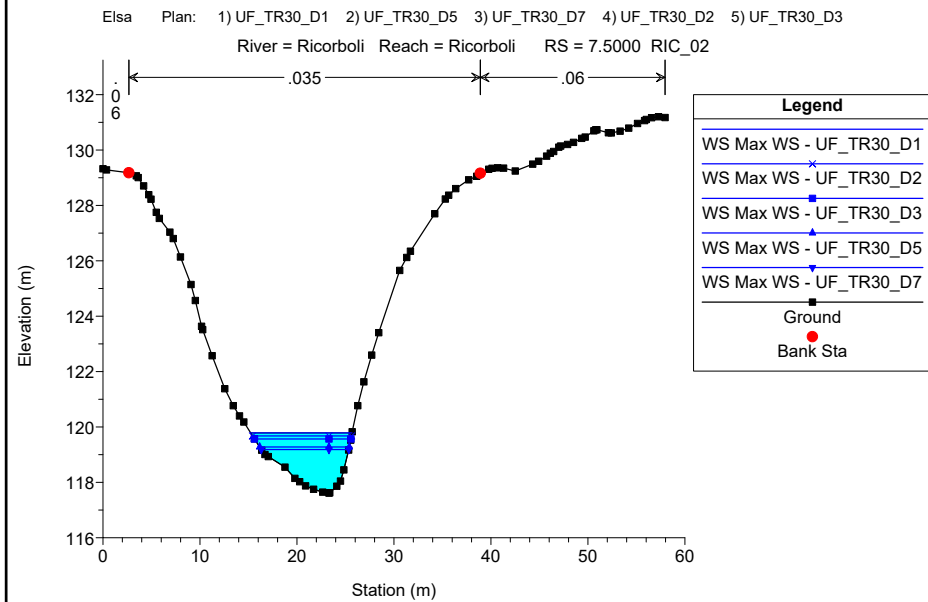
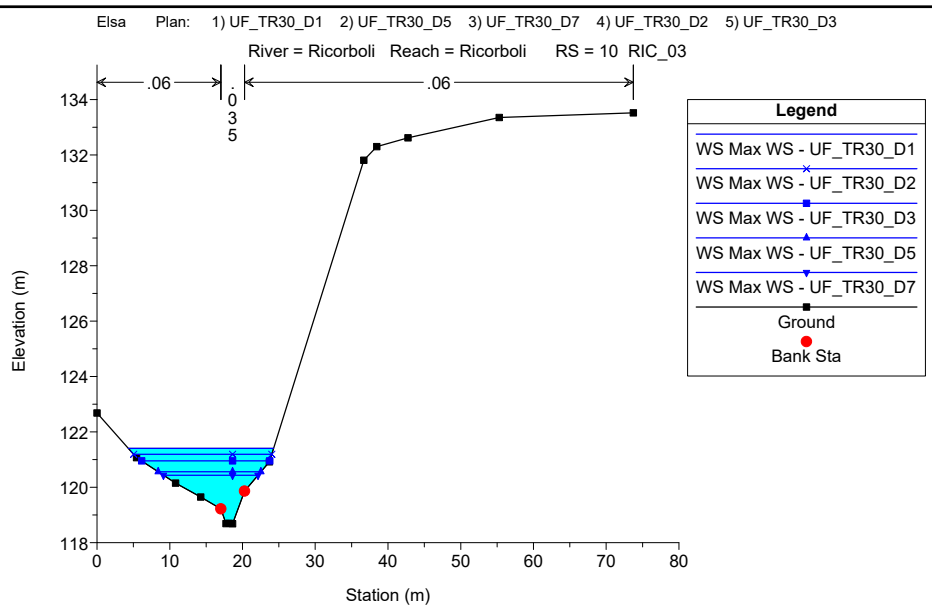
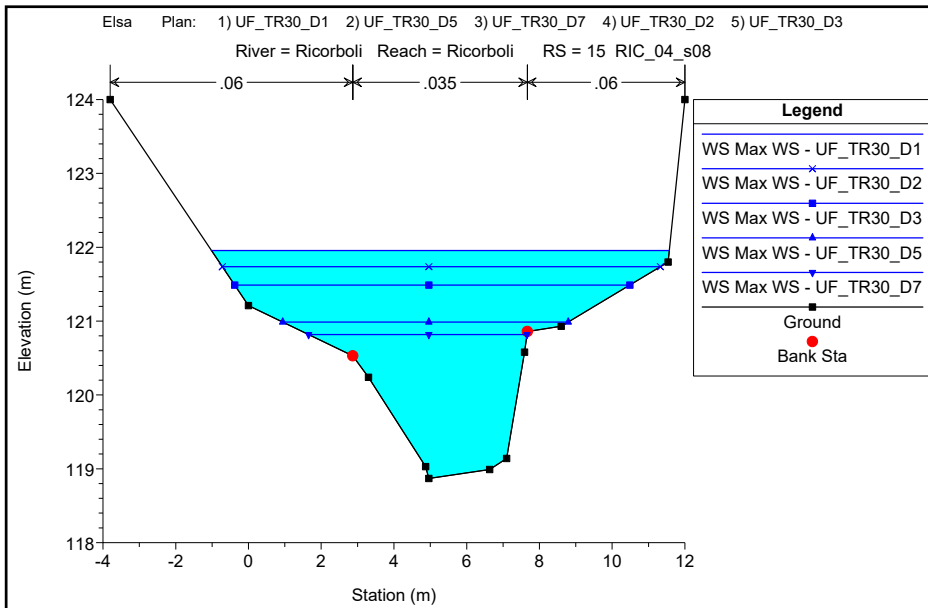












ALLEGATI

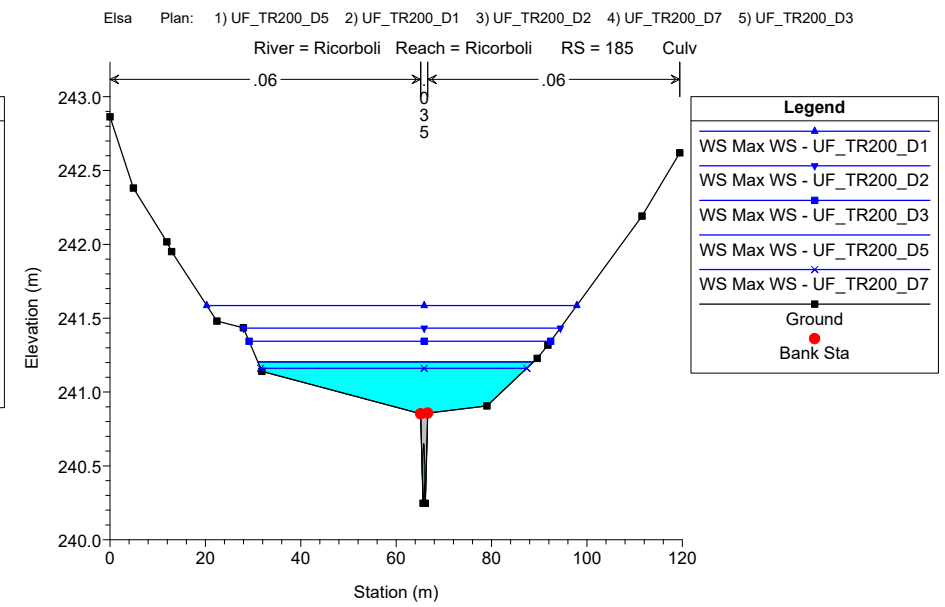
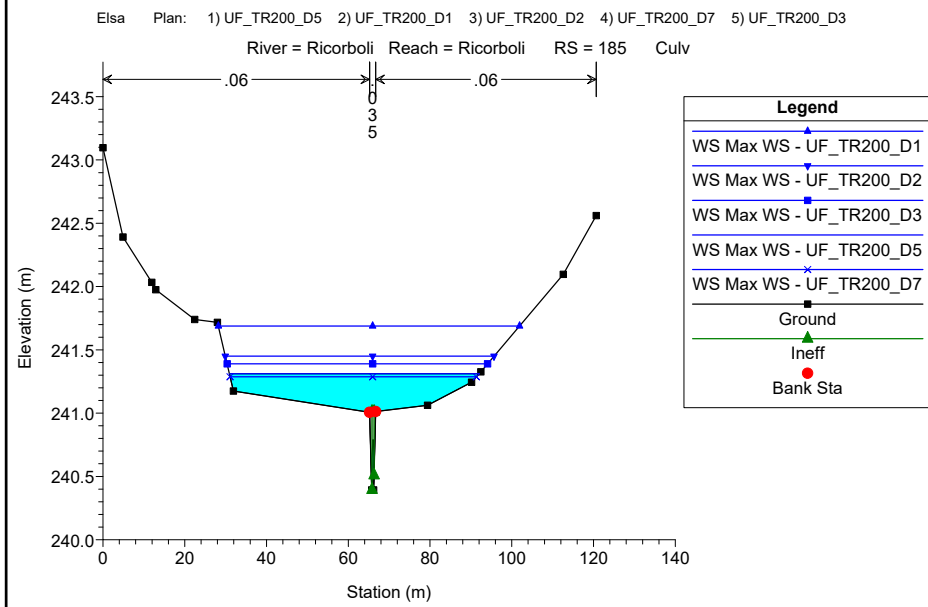
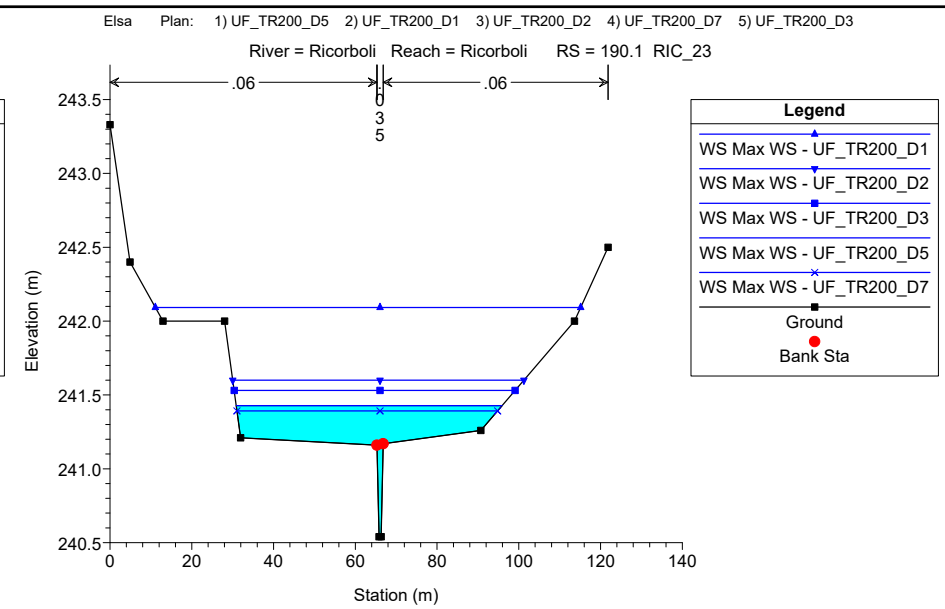
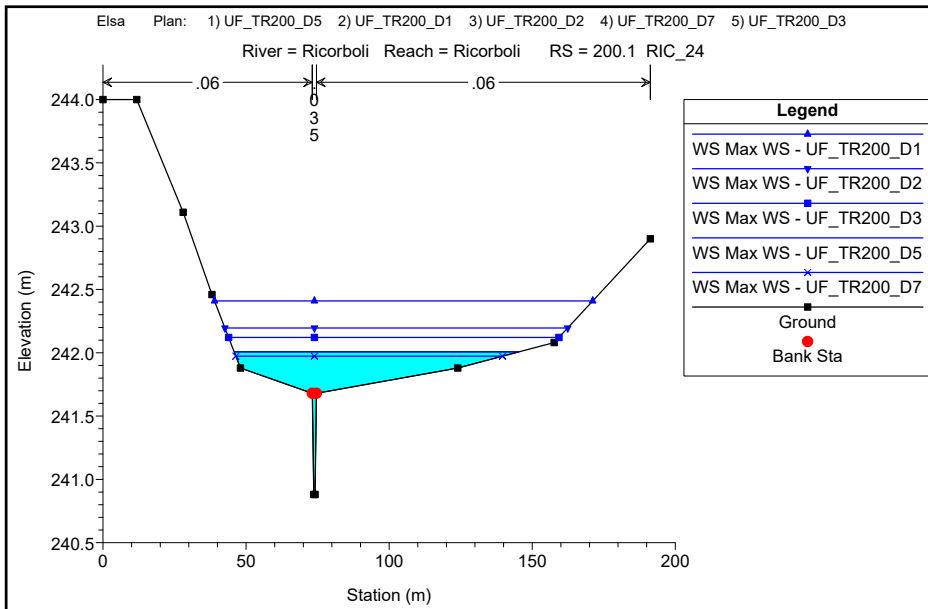
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

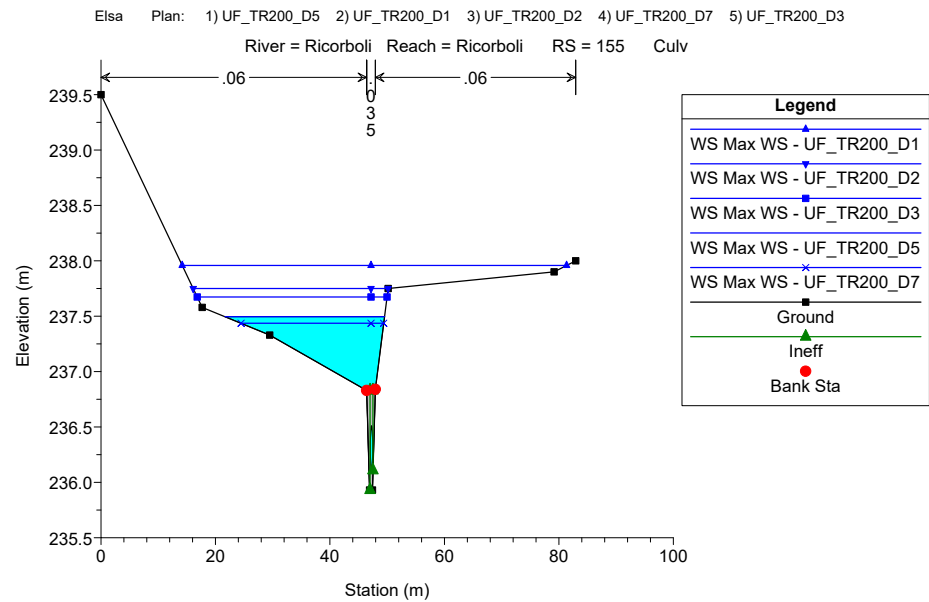
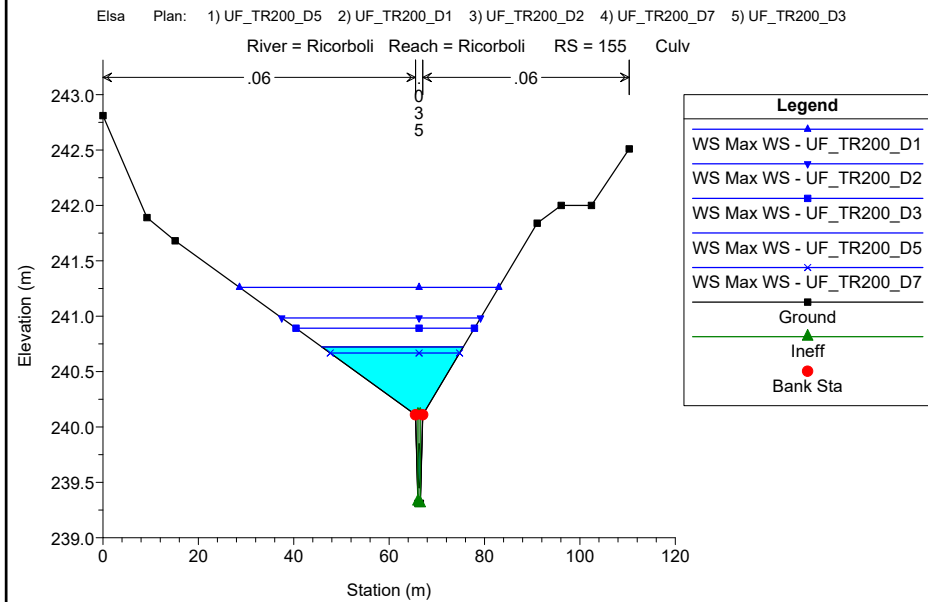
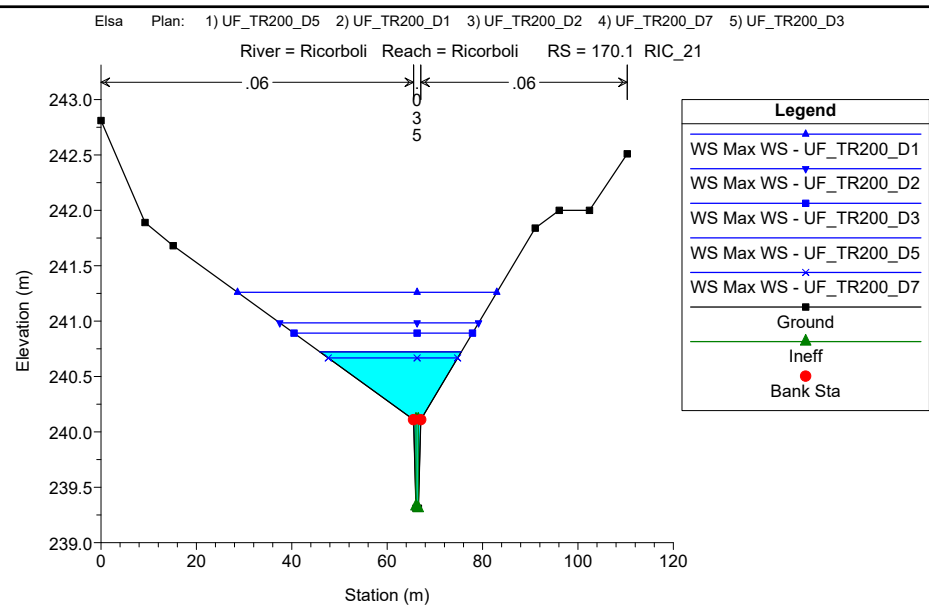
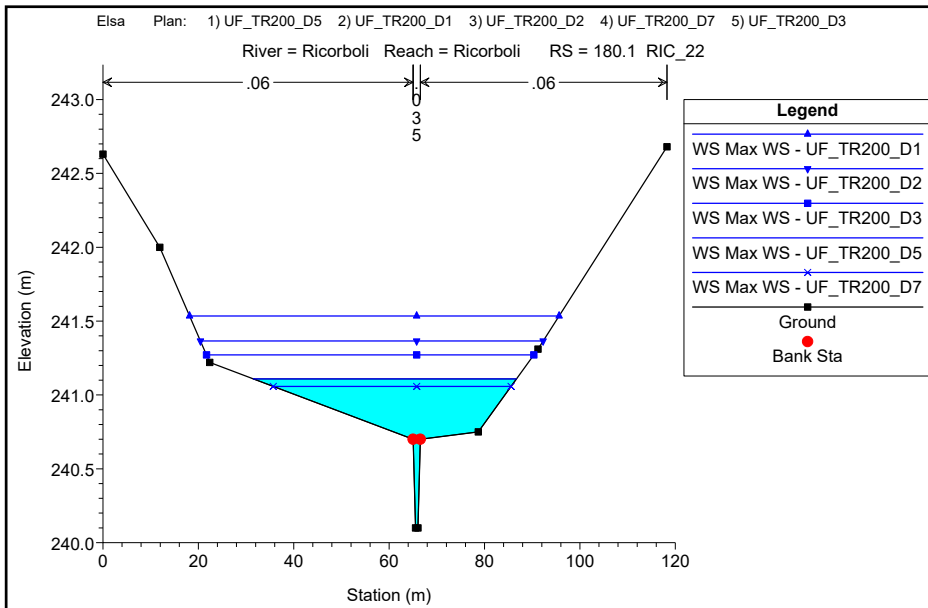
BOTRO DI RICORBOLI

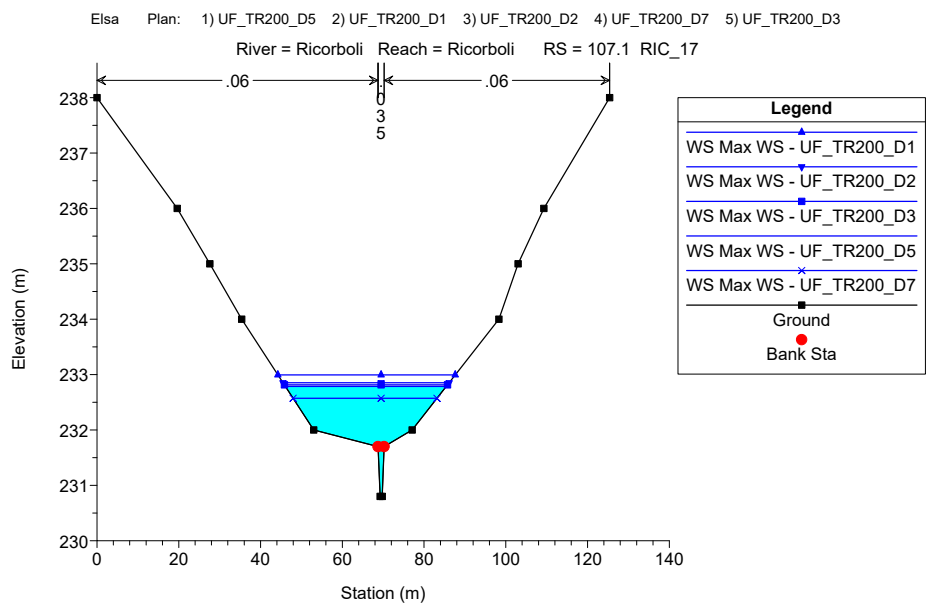
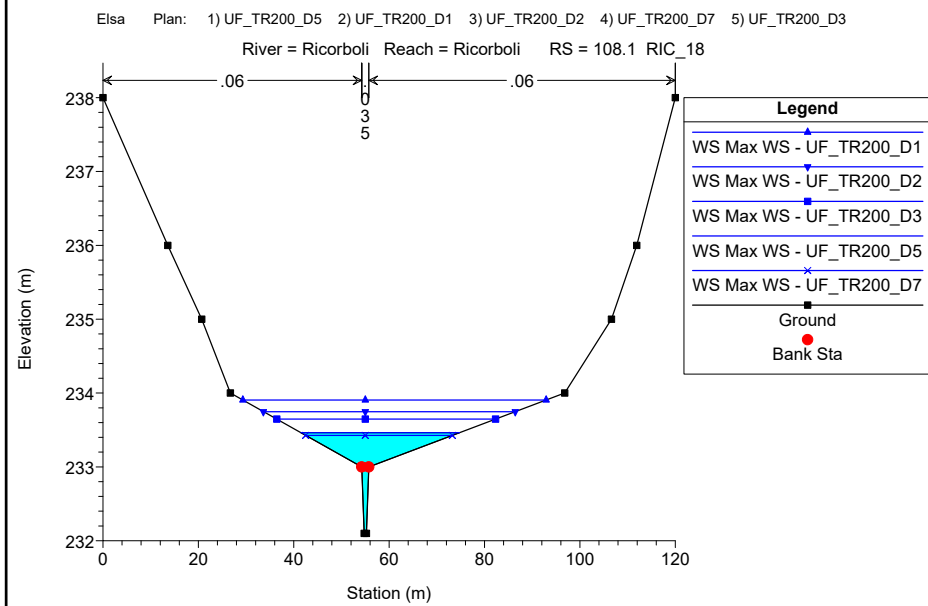
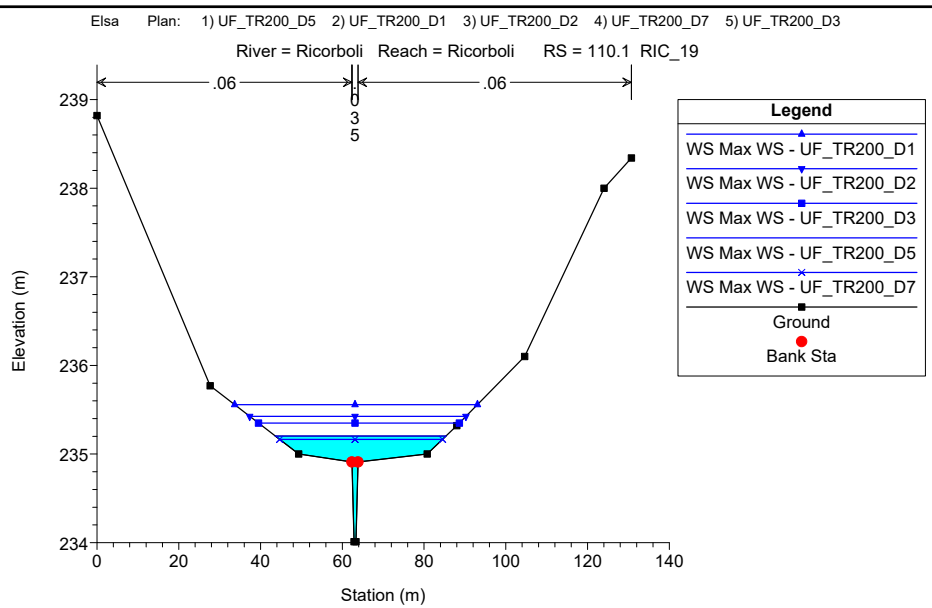
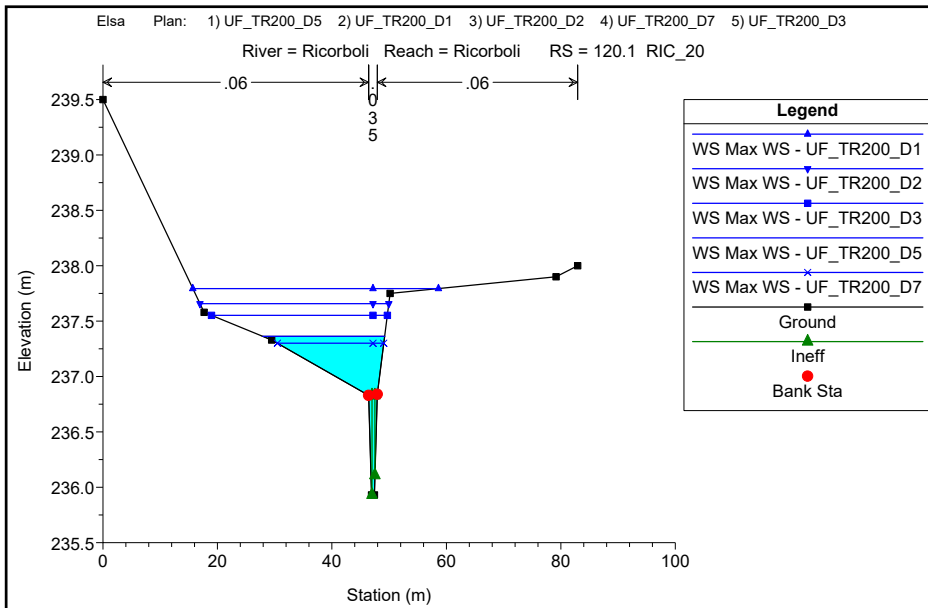
MODELLAZIONE PER TR=200 anni

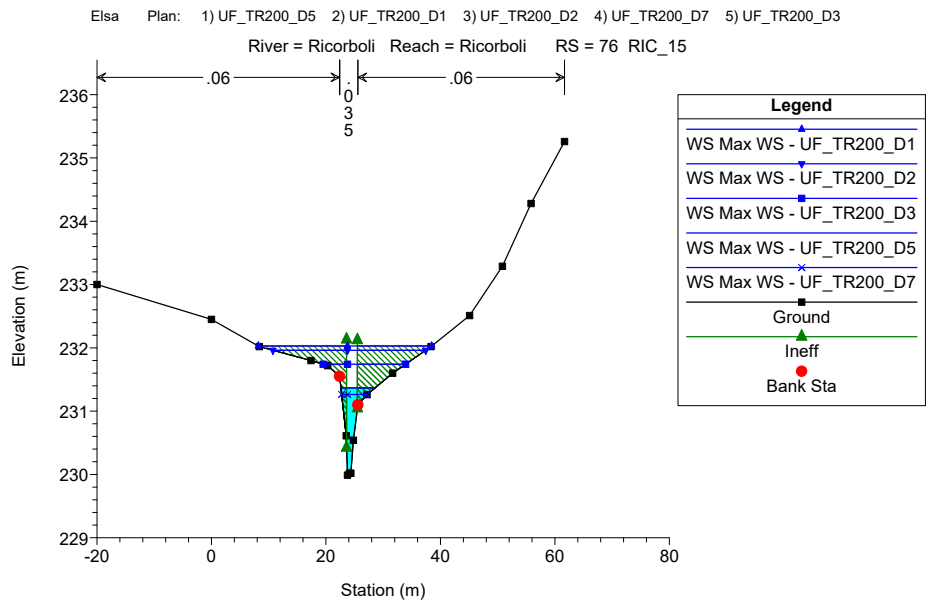
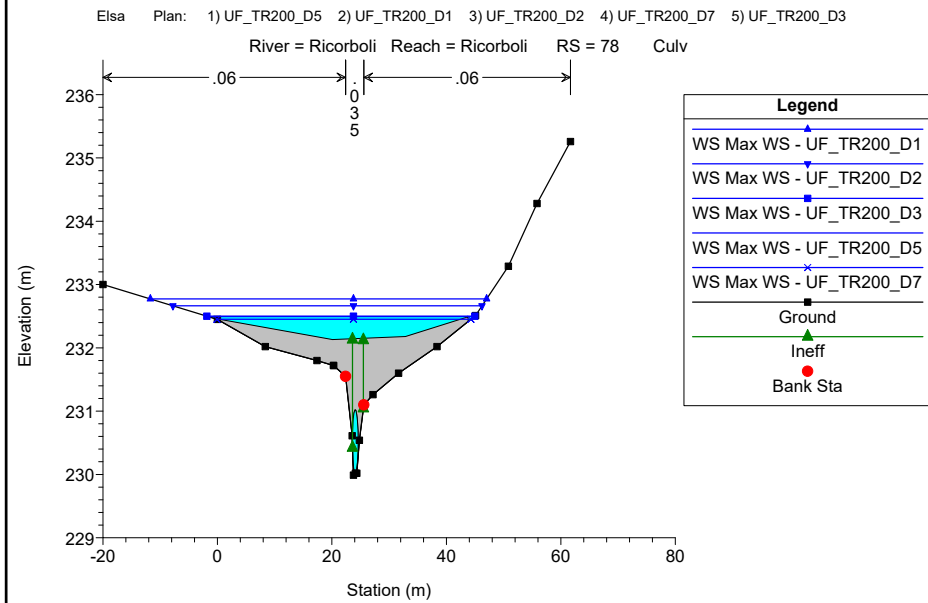
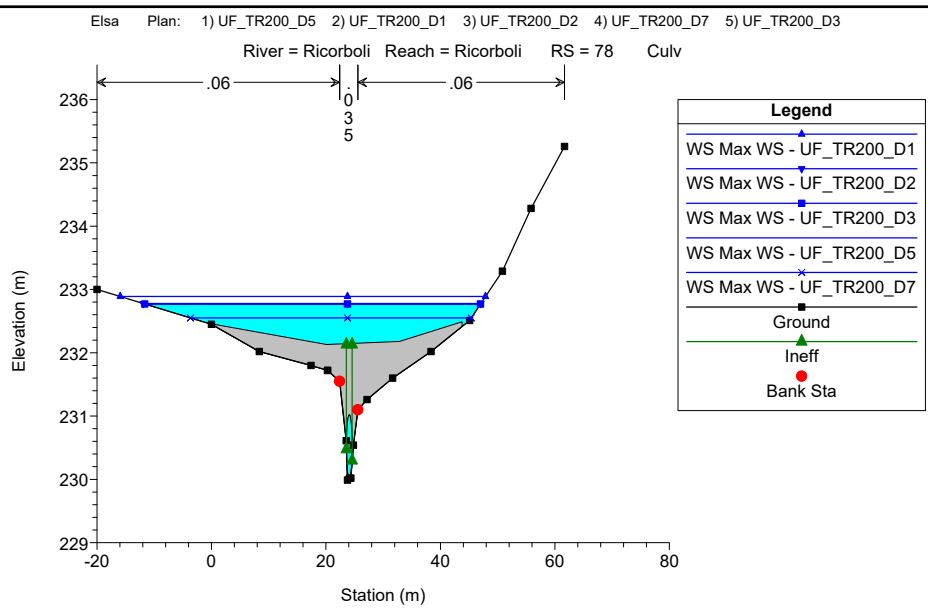
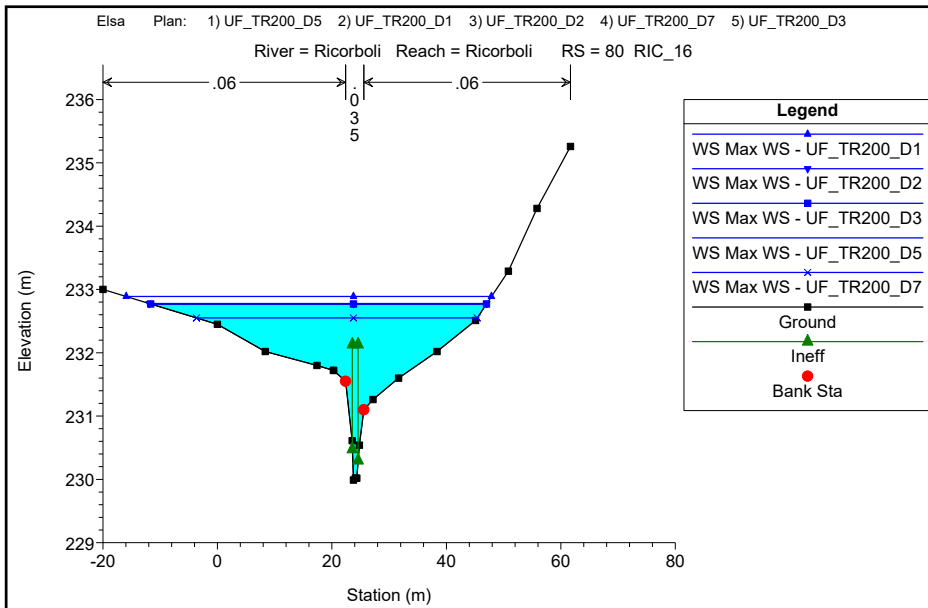
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

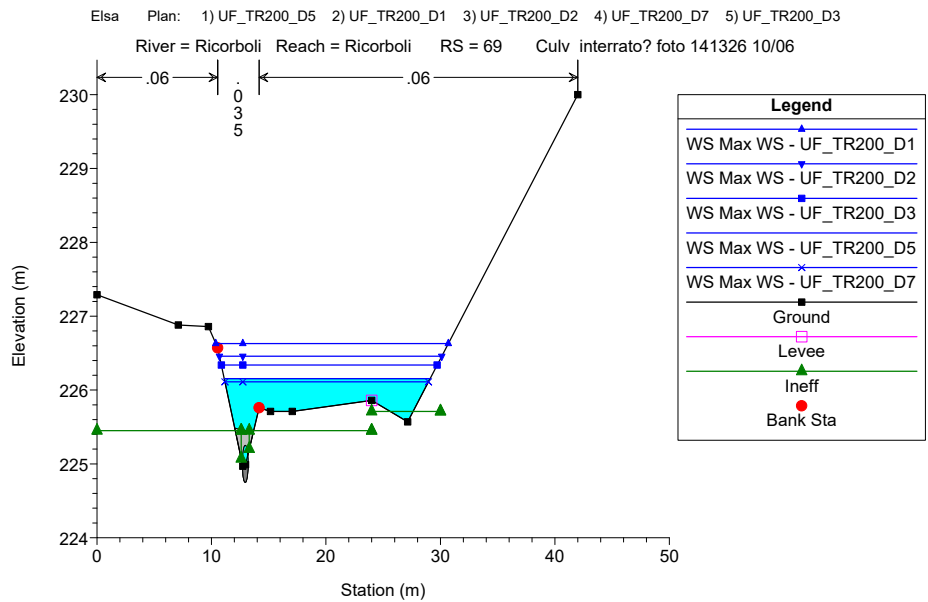
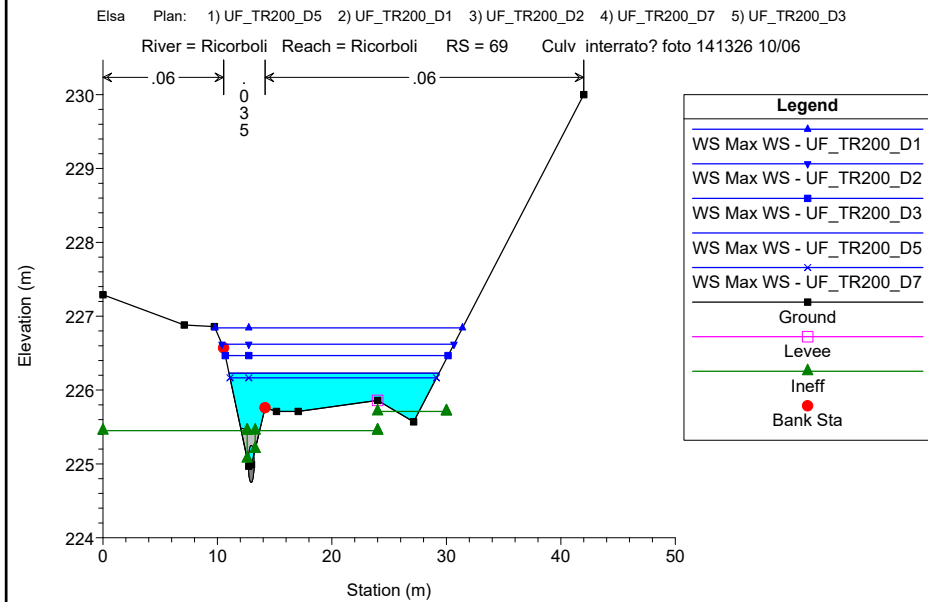
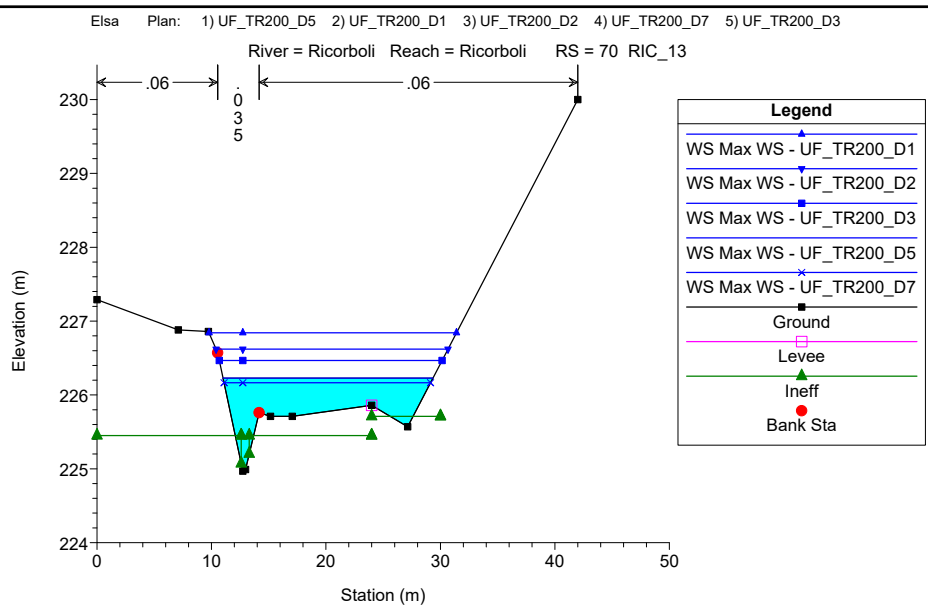
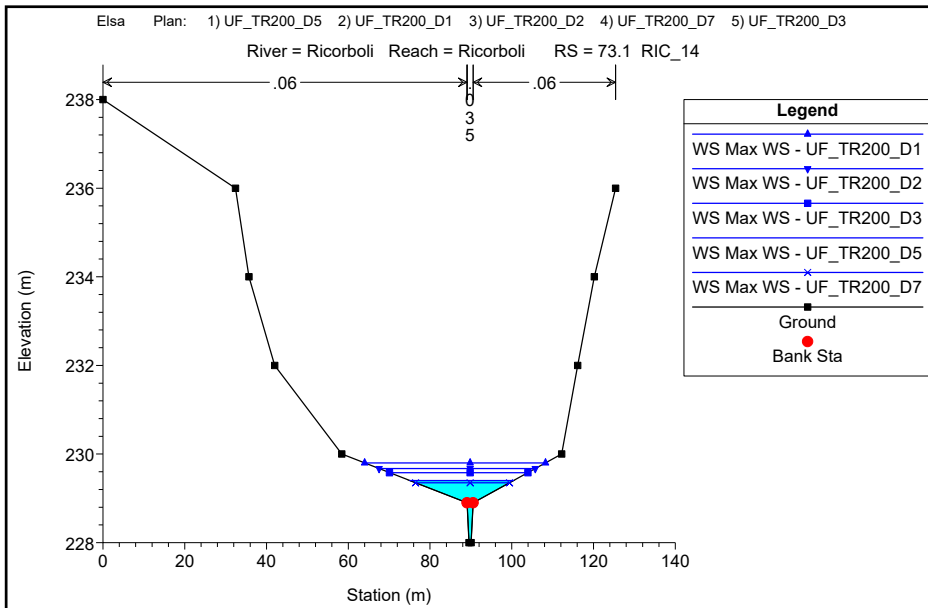
Sezioni Trasversali (da monte verso valle)

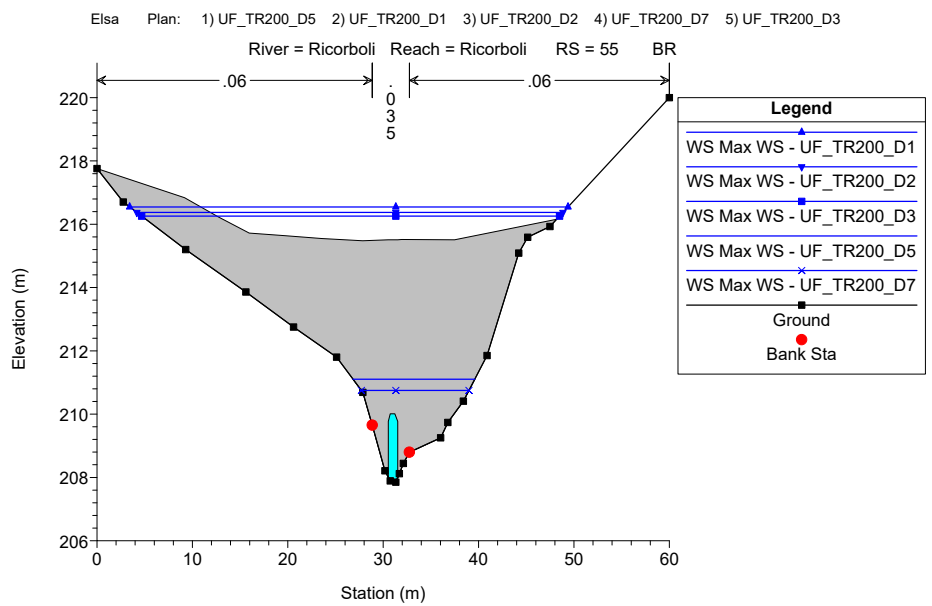
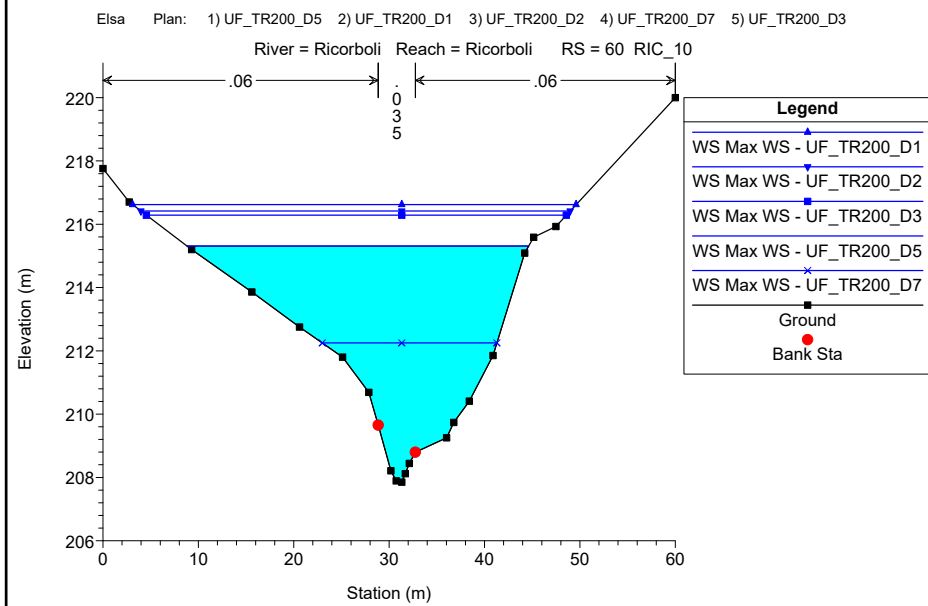
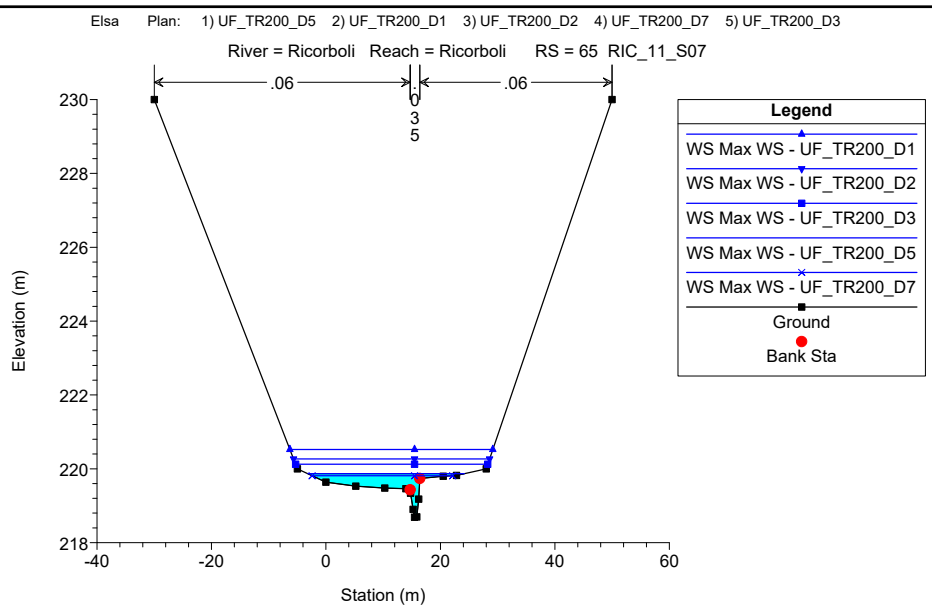
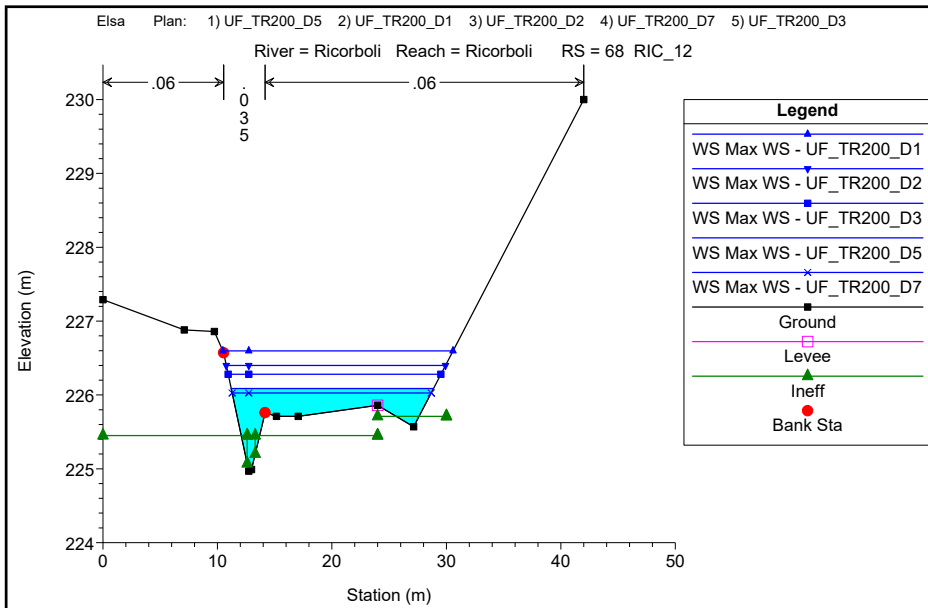


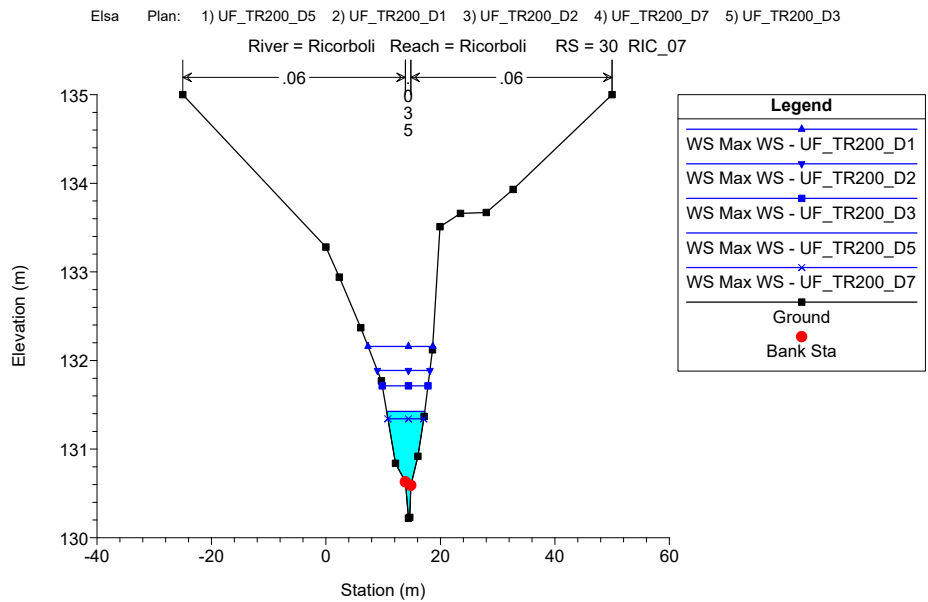
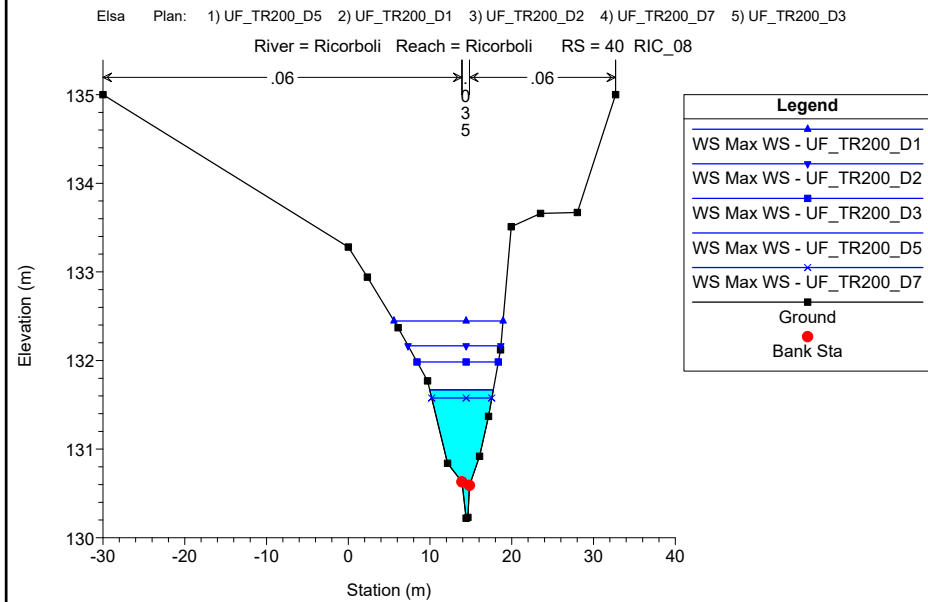
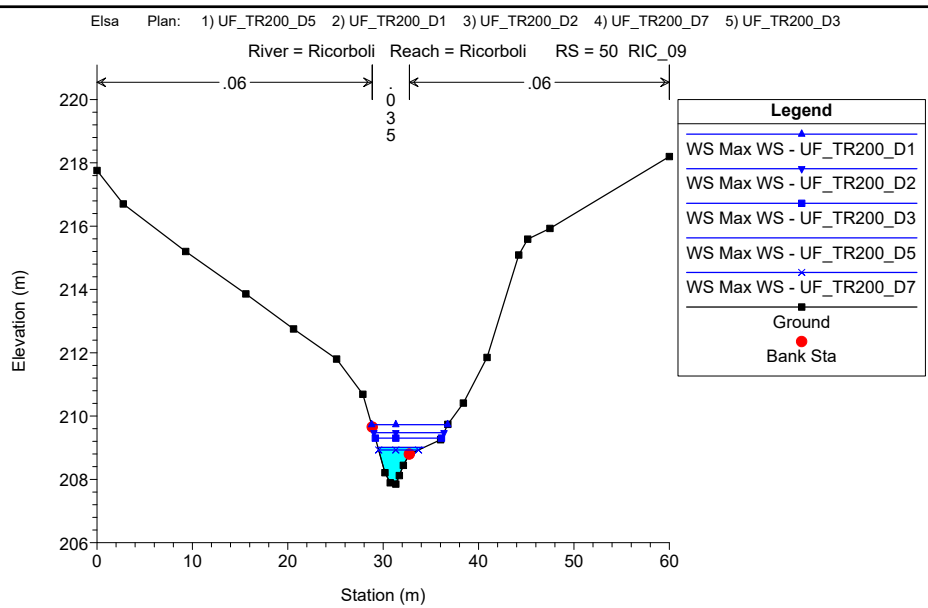
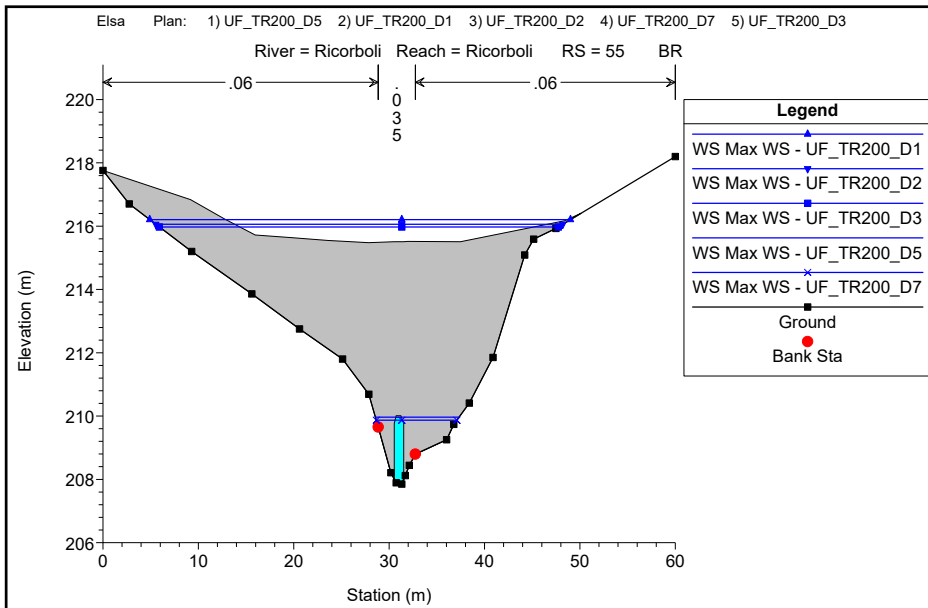


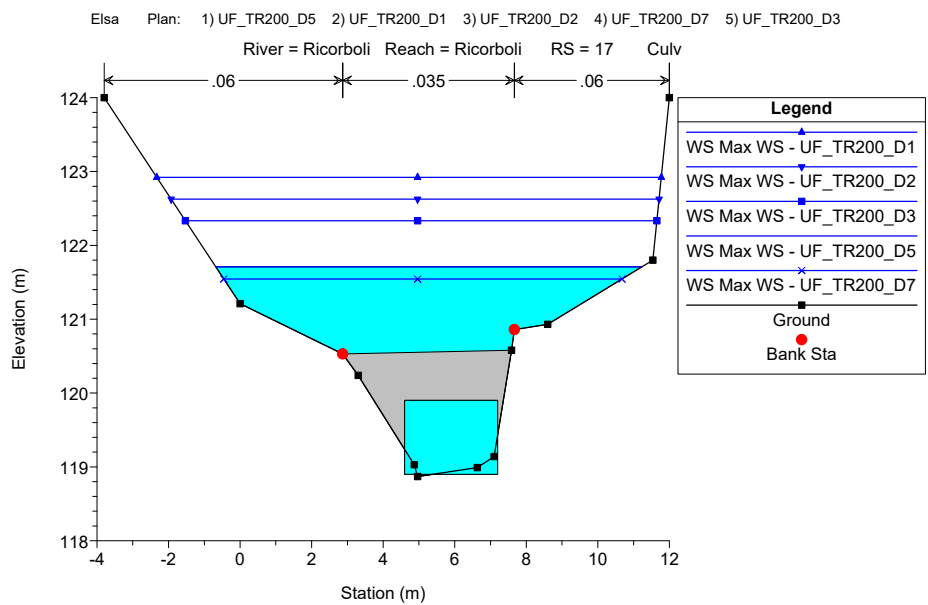
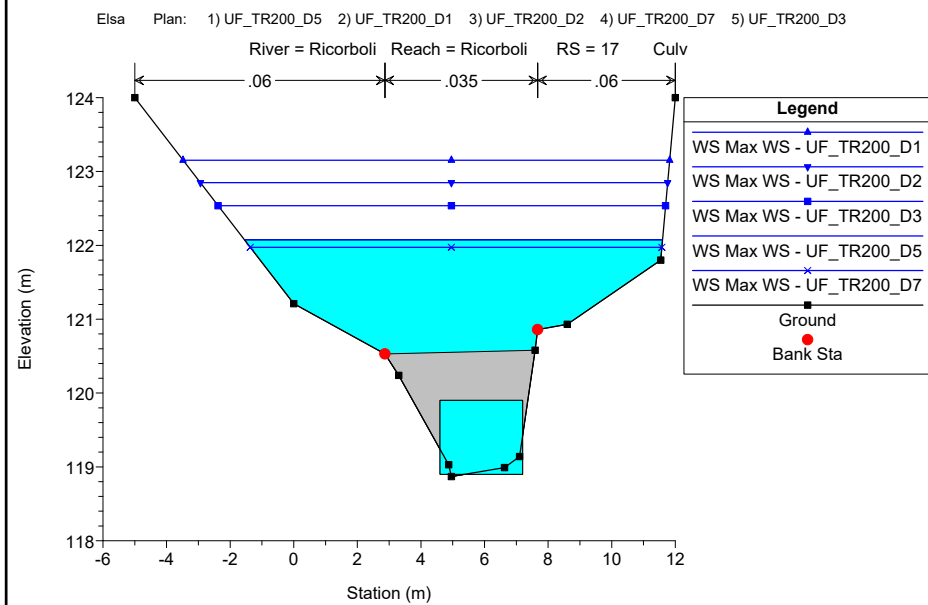
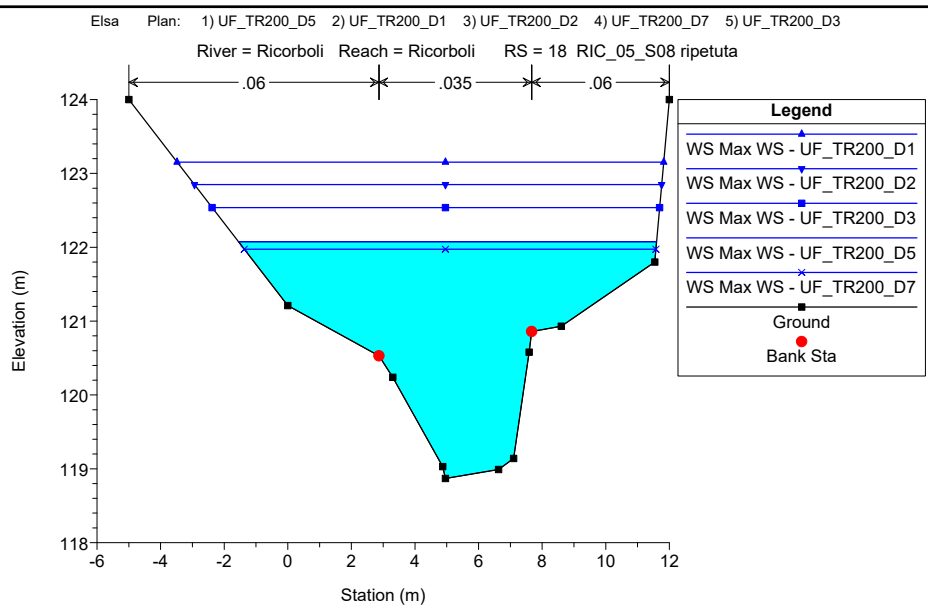
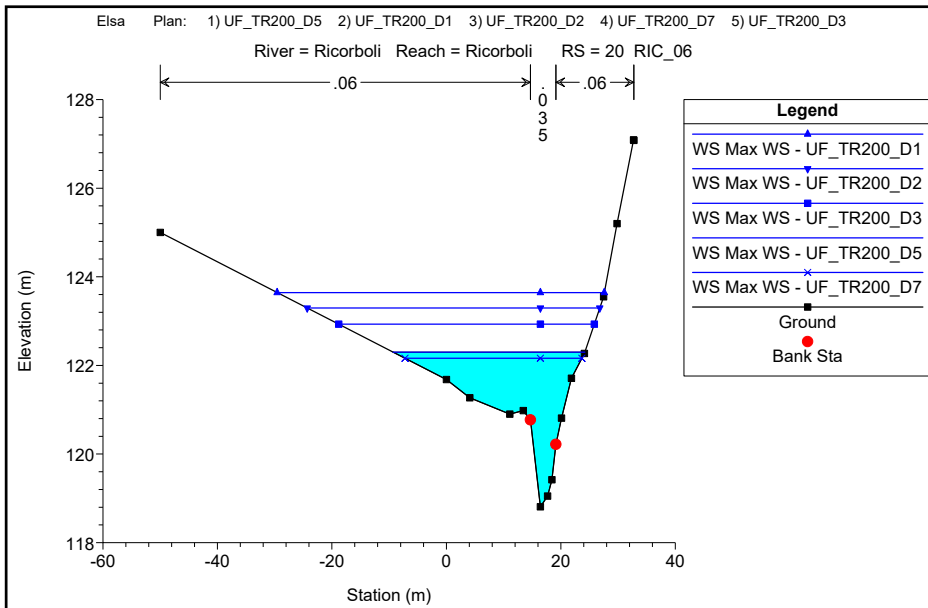


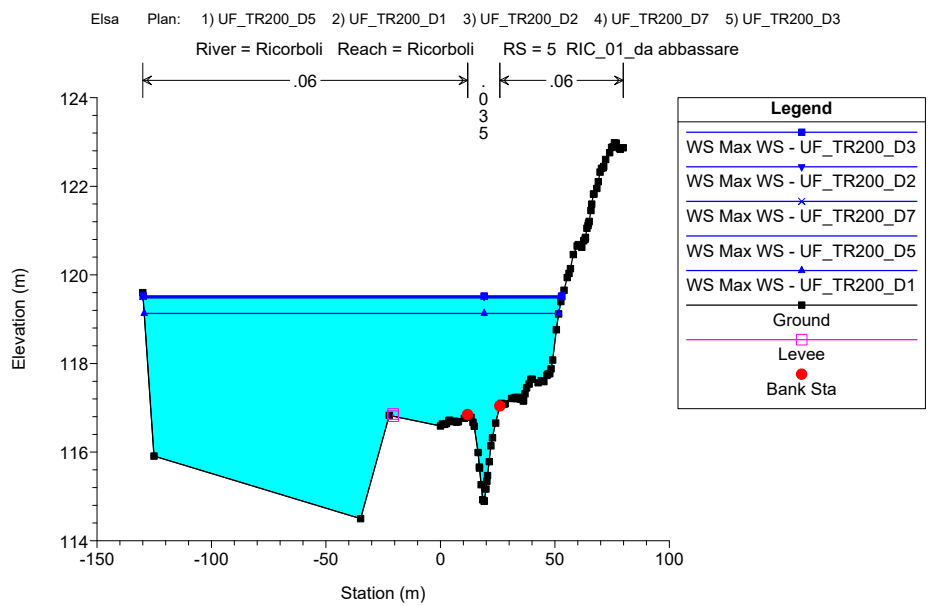
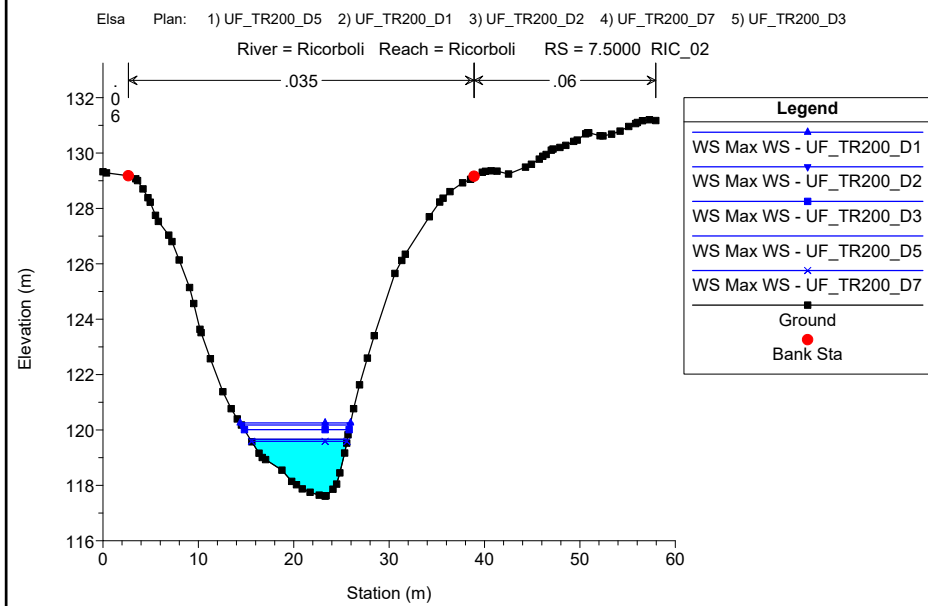
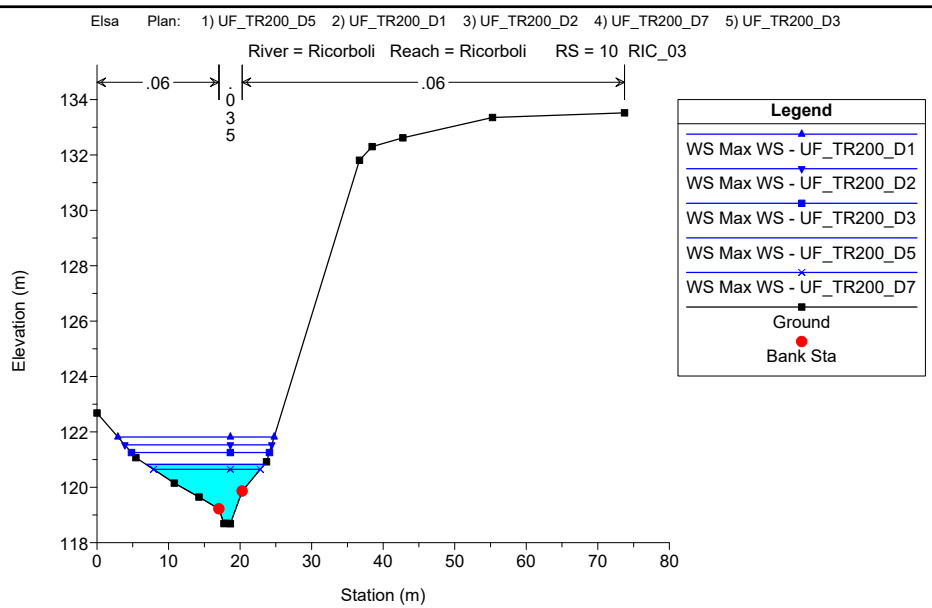
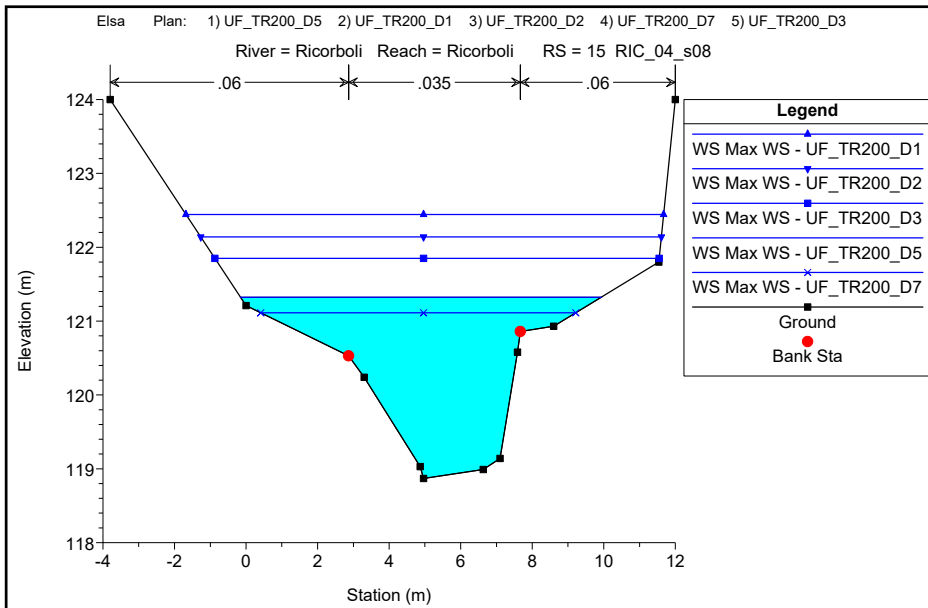












ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DI RICORBOLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Ricorboli	40	Max WS	UF_TR30_D2	20.20	130.22	131.94	132.05	132.50	0.024141	2.03	4.83	2.07	7.89	9.63	1.23
Ricorboli	40	Max WS	UF_TR30_D3	15.00	130.22	131.78	131.80	132.23	0.021544	1.88	4.24	1.80	6.43	8.33	1.14
Ricorboli	30	Max WS	UF_TR30_D1	28.52	130.22	131.88	132.31	133.15	0.057216	3.09	7.24	3.10	7.33	9.15	1.88
Ricorboli	30	Max WS	UF_TR30_D5	8.20	130.22	131.28	131.51	132.00	0.051821	2.07	4.91	1.93	2.86	5.95	1.65
Ricorboli	30	Max WS	UF_TR30_D7	6.50	130.22	131.20	131.41	131.86	0.051587	1.89	4.59	1.77	2.38	5.53	1.62
Ricorboli	30	Max WS	UF_TR30_D2	20.20	130.22	131.68	132.05	132.76	0.055413	2.87	6.47	2.72	5.61	7.83	1.81
Ricorboli	30	Max WS	UF_TR30_D3	15.00	130.22	131.53	131.80	132.47	0.054528	2.59	5.92	2.45	4.49	7.14	1.76
Ricorboli	20	Max WS	UF_TR30_D1	28.35	118.81	123.04		123.06	0.000242	0.29	0.87	0.28	66.12	46.54	0.15
Ricorboli	20	Max WS	UF_TR30_D5	8.18	118.81	121.97		121.98	0.000139	0.15	0.52	0.15	26.72	27.34	0.11
Ricorboli	20	Max WS	UF_TR30_D7	6.49	118.81	121.73		121.74	0.000146	0.13	0.50	0.15	20.58	22.64	0.11
Ricorboli	20	Max WS	UF_TR30_D2	20.16	118.81	122.76		122.78	0.000193	0.24	0.74	0.23	53.97	41.67	0.13
Ricorboli	20	Max WS	UF_TR30_D3	15.00	118.81	122.44		122.45	0.000190	0.21	0.68	0.20	41.44	35.97	0.13
Ricorboli	18	Max WS	UF_TR30_D1	64.48	118.87	122.63		123.06	0.004223	1.20	3.24	1.17	27.68	14.27	0.58
Ricorboli	18	Max WS	UF_TR30_D5	22.25	118.87	121.80		121.94	0.001773	0.56	1.72	0.46	16.51	12.60	0.36
Ricorboli	18	Max WS	UF_TR30_D7	17.47	118.87	121.58		121.69	0.001645	0.47	1.55	0.38	13.78	11.44	0.34
Ricorboli	18	Max WS	UF_TR30_D2	52.91	118.87	122.39		122.77	0.003931	1.08	2.97	1.02	24.32	13.79	0.55
Ricorboli	18	Max WS	UF_TR30_D3	32.33	118.87	122.17		122.35	0.002046	0.72	2.03	0.66	21.26	13.33	0.39
Ricorboli	17		Culvert												
Ricorboli	15	Max WS	UF_TR30_D1	64.47	118.87	121.96	122.04	122.88	0.011448	1.58	4.56	1.35	18.36	12.59	0.92
Ricorboli	15	Max WS	UF_TR30_D5	21.99	118.87	120.99		121.41	0.008868	0.58	2.90	0.29	8.01	7.85	0.74
Ricorboli	15	Max WS	UF_TR30_D7	17.50	118.87	120.82		121.16	0.008307	0.41	2.62		6.84	6.00	0.71
Ricorboli	15	Max WS	UF_TR30_D2	52.91	118.87	121.74	121.81	122.57	0.011251	1.39	4.25	1.11	15.64	12.04	0.89
Ricorboli	15	Max WS	UF_TR30_D3	41.09	118.87	121.49	121.48	122.19	0.010739	1.14	3.85	0.89	12.79	10.86	0.86
Ricorboli	10	Max WS	UF_TR30_D1	64.45	118.68	121.40		121.96	0.008954	1.75	4.31	1.40	26.36	19.96	0.90
Ricorboli	10	Max WS	UF_TR30_D5	21.29	118.68	120.56		120.87	0.007304	1.10	2.90	0.69	11.62	14.13	0.75
Ricorboli	10	Max WS	UF_TR30_D7	16.47	118.68	120.44		120.68	0.006353	0.96	2.55	0.56	9.92	13.00	0.69
Ricorboli	10	Max WS	UF_TR30_D2	52.89	118.68	121.19	121.17	121.73	0.009424	1.64	4.15	1.27	22.20	18.98	0.90
Ricorboli	10	Max WS	UF_TR30_D3	39.71	118.68	120.95	120.91	121.43	0.009193	1.47	3.79	1.05	17.83	17.60	0.88
Ricorboli	7.5000	Max WS	UF_TR30_D1	64.38	117.61	119.79	119.98	120.78	0.017990		4.41		14.60	10.46	1.19
Ricorboli	7.5000	Max WS	UF_TR30_D5	22.08	117.61	119.28		119.55	0.007132		2.31		9.55	9.24	0.73
Ricorboli	7.5000	Max WS	UF_TR30_D7	17.33	117.61	119.19		119.39	0.005693		1.98		8.73	9.02	0.64
Ricorboli	7.5000	Max WS	UF_TR30_D2	52.35	117.61	119.68	119.76	120.45	0.015070		3.90		13.44	10.20	1.08
Ricorboli	7.5000	Max WS	UF_TR30_D3	40.15	117.61	119.57		120.11	0.011353		3.26		12.32	9.95	0.93
Ricorboli	5	Max WS	UF_TR30_D1	21.59	114.89	118.74		118.74	0.000001	0.04	0.06	0.02	499.91	179.44	0.01
Ricorboli	5	Max WS	UF_TR30_D5	21.46	114.89	119.06		119.06	0.000001	0.04	0.06	0.02	557.82	180.74	0.01
Ricorboli	5	Max WS	UF_TR30_D7	16.38	114.89	119.06		119.06	0.000001	0.03	0.04	0.02	557.27	180.73	0.01
Ricorboli	5	Max WS	UF_TR30_D2	24.82	114.89	118.98		118.98	0.000002	0.05	0.07	0.03	542.74	180.40	0.01
Ricorboli	5	Max WS	UF_TR30_D3	33.06	114.89	119.07		119.07	0.000002	0.06	0.09	0.03	560.24	180.80	0.02

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DI RICORBOLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Ricorboli	40	Max WS	UF_TR200_D5	11.86	130.22	131.67	131.70	132.05	0.019857	1.71	3.85	1.62	5.53	7.78	1.08
Ricorboli	40	Max WS	UF_TR200_D1	42.52	130.22	132.45	132.65	133.25	0.027775	2.47	6.23	2.79	13.68	13.34	1.38
Ricorboli	40	Max WS	UF_TR200_D2	28.81	130.22	132.17	132.32	132.84	0.026267	2.23	5.50	2.39	10.23	11.35	1.31
Ricorboli	40	Max WS	UF_TR200_D7	9.70	130.22	131.58	131.59	131.92	0.018792	1.57	3.57	1.49	4.84	7.36	1.04
Ricorboli	40	Max WS	UF_TR200_D3	21.60	130.22	131.98	132.10	132.56	0.024649	2.07	4.96	2.13	8.28	9.94	1.25
Ricorboli	30	Max WS	UF_TR200_D5	11.86	130.22	131.43	131.70	132.28	0.053439	2.38	5.50	2.23	3.77	6.66	1.71
Ricorboli	30	Max WS	UF_TR200_D1	42.52	130.22	132.16	132.65	133.65	0.058335	3.31	8.18	3.55	10.15	11.30	1.95
Ricorboli	30	Max WS	UF_TR200_D2	28.80	130.22	131.89	132.32	133.17	0.057850	3.11	7.29	3.12	7.36	9.18	1.89
Ricorboli	30	Max WS	UF_TR200_D7	9.70	130.22	131.34	131.59	132.13	0.052978	2.22	5.18	2.06	3.24	6.26	1.68
Ricorboli	30	Max WS	UF_TR200_D3	21.60	130.22	131.72	132.10	132.83	0.055781	2.93	6.61	2.79	5.89	7.99	1.82
Ricorboli	20	Max WS	UF_TR200_D5	10.69	118.81	122.30		122.31	0.000125	0.16	0.54	0.16	36.61	33.51	0.10
Ricorboli	20	Max WS	UF_TR200_D1	42.50	118.81	123.64		123.66	0.000220	0.32	0.92	0.32	97.69	57.17	0.14
Ricorboli	20	Max WS	UF_TR200_D2	28.76	118.81	123.29		123.31	0.000167	0.26	0.76	0.25	78.77	51.11	0.12
Ricorboli	20	Max WS	UF_TR200_D7	9.68	118.81	122.16		122.17	0.000134	0.16	0.54	0.16	32.16	30.91	0.10
Ricorboli	20	Max WS	UF_TR200_D3	21.60	118.81	122.93		122.94	0.000167	0.23	0.71	0.23	61.30	44.67	0.12
Ricorboli	18	Max WS	UF_TR200_D5	29.44	118.87	122.08		122.24	0.001961	0.67	1.95	0.81	20.03	13.15	0.38
Ricorboli	18	Max WS	UF_TR200_D1	94.82	118.87	123.15		123.74	0.004909	1.48	3.86	1.46	35.35	15.30	0.64
Ricorboli	18	Max WS	UF_TR200_D2	76.25	118.87	122.85		123.34	0.004512	1.32	3.50	1.29	30.79	14.70	0.60
Ricorboli	18	Max WS	UF_TR200_D7	26.45	118.87	121.97		122.12	0.001870	0.63	1.85	0.55	18.69	12.94	0.37
Ricorboli	18	Max WS	UF_TR200_D3	59.69	118.87	122.54		122.94	0.004111	1.15	3.13	1.11	26.31	14.07	0.57
Ricorboli	17				Culvert										
Ricorboli	15	Max WS	UF_TR200_D5	35.34	118.87	121.32	121.31	121.99	0.011023	0.98	3.69	0.76	11.07	10.09	0.86
Ricorboli	15	Max WS	UF_TR200_D1	94.82	118.87	122.44	122.55	123.59	0.011886	1.94	5.22	1.82	24.68	13.36	0.96
Ricorboli	15	Max WS	UF_TR200_D2	76.25	118.87	122.14	122.25	123.17	0.011937	1.74	4.88	1.56	20.70	12.88	0.95
Ricorboli	15	Max WS	UF_TR200_D7	26.47	118.87	121.11	120.93	121.62	0.009682	0.71	3.20	0.49	9.06	8.81	0.79
Ricorboli	15	Max WS	UF_TR200_D3	59.69	118.87	121.85	121.95	122.76	0.011771	1.51	4.49	1.24	17.01	12.42	0.92
Ricorboli	10	Max WS	UF_TR200_D5	34.08	118.68	120.83	120.78	121.27	0.009176	1.39	3.62	0.95	15.69	16.54	0.87
Ricorboli	10	Max WS	UF_TR200_D1	94.80	118.68	121.82		122.48	0.009207	2.04	4.87	1.68	35.00	21.85	0.93
Ricorboli	10	Max WS	UF_TR200_D2	76.22	118.68	121.53	121.50	122.17	0.009807	1.92	4.67	1.55	28.95	20.54	0.95
Ricorboli	10	Max WS	UF_TR200_D7	24.01	118.68	120.65		120.97	0.007297	1.15	3.01	0.74	12.87	14.91	0.76
Ricorboli	10	Max WS	UF_TR200_D3	59.67	118.68	121.25	121.28	121.87	0.010422	1.78	4.45	1.39	23.44	19.28	0.96
Ricorboli	7.5000	Max WS	UF_TR200_D5	33.93	117.61	119.67		120.00	0.006454		2.54		13.35	10.18	0.71
Ricorboli	7.5000	Max WS	UF_TR200_D1	94.67	117.61	120.25	120.47	121.43	0.016767		4.80		19.72	11.58	1.17
Ricorboli	7.5000	Max WS	UF_TR200_D2	75.87	117.61	120.18	120.17	121.00	0.012215		4.03		18.84	11.38	1.00
Ricorboli	7.5000	Max WS	UF_TR200_D7	26.11	117.61	119.59		119.81	0.004561		2.08		12.55	10.00	0.59
Ricorboli	7.5000	Max WS	UF_TR200_D3	60.09	117.61	120.01		120.65	0.010279		3.54		16.96	10.98	0.91
Ricorboli	5	Max WS	UF_TR200_D5	33.51	114.89	119.48		119.48	0.000002	0.05	0.08	0.03	635.03	182.70	0.01
Ricorboli	5	Max WS	UF_TR200_D1	8.67	114.89	119.13		119.13	0.000000	0.02	0.02	0.01	571.00	181.05	0.00
Ricorboli	5	Max WS	UF_TR200_D2	74.47	114.89	119.52		119.52	0.000008	0.11	0.18	0.07	641.22	182.89	0.03
Ricorboli	5	Max WS	UF_TR200_D7	25.67	114.89	119.51		119.51	0.000001	0.04	0.06	0.02	640.16	182.84	0.01
Ricorboli	5	Max WS	UF_TR200_D3	58.67	114.89	119.52		119.53	0.000005	0.09	0.14	0.06	642.55	182.95	0.02

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

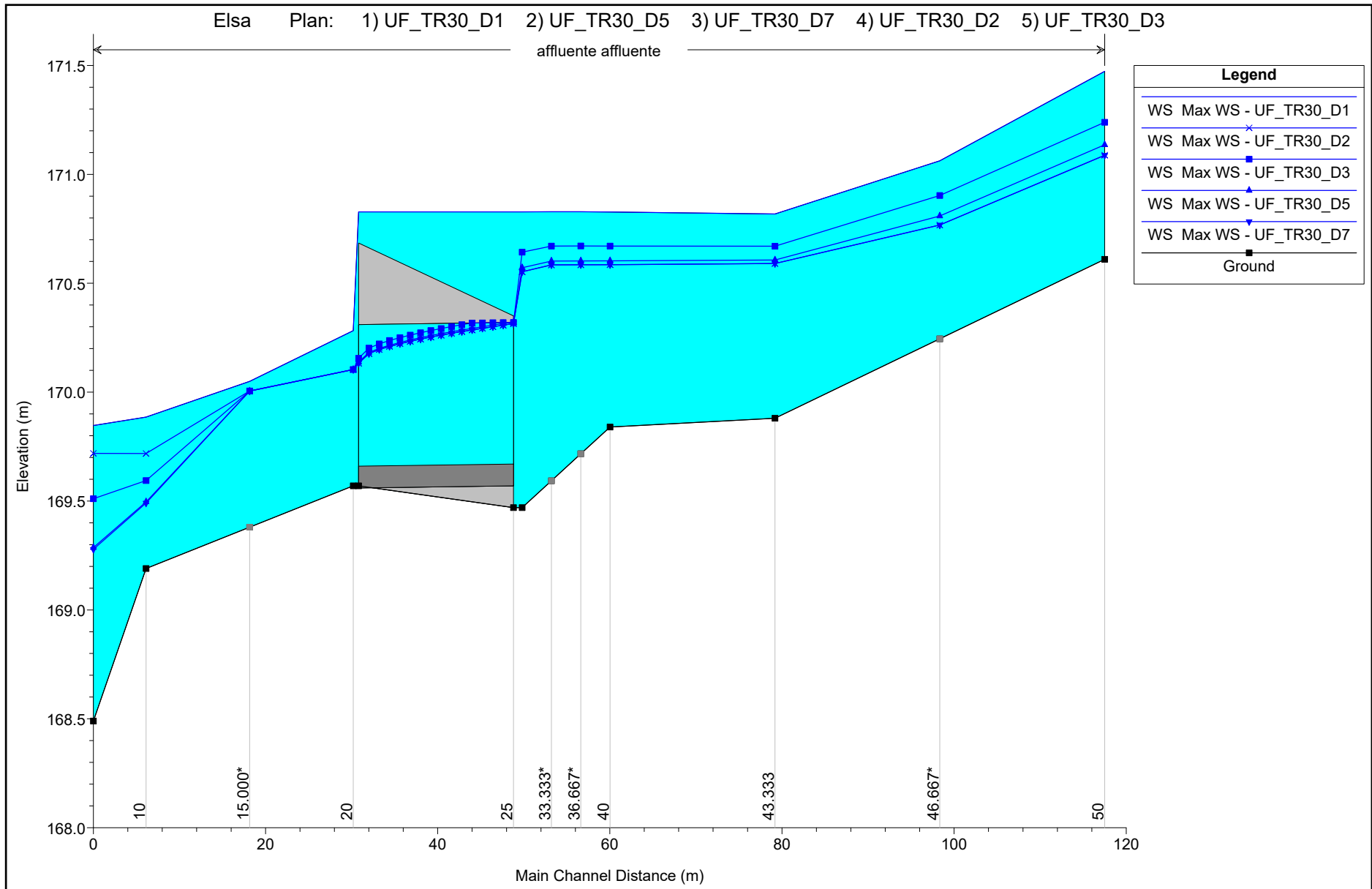
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AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

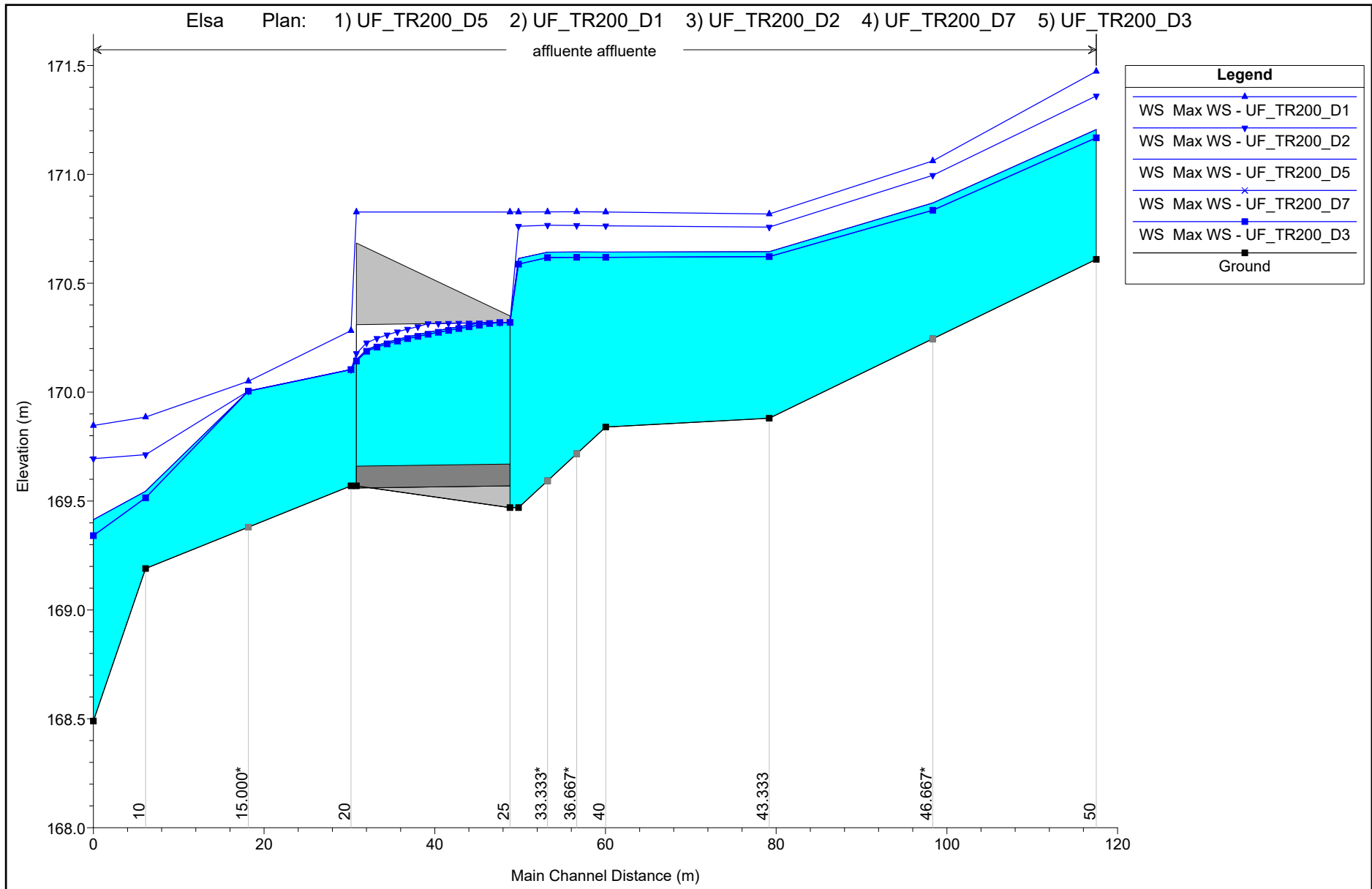
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AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

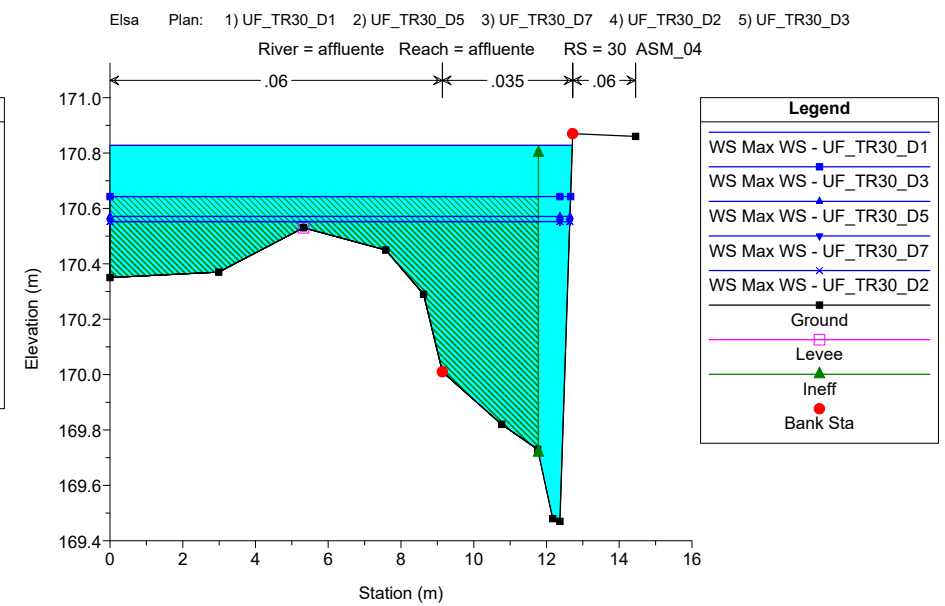
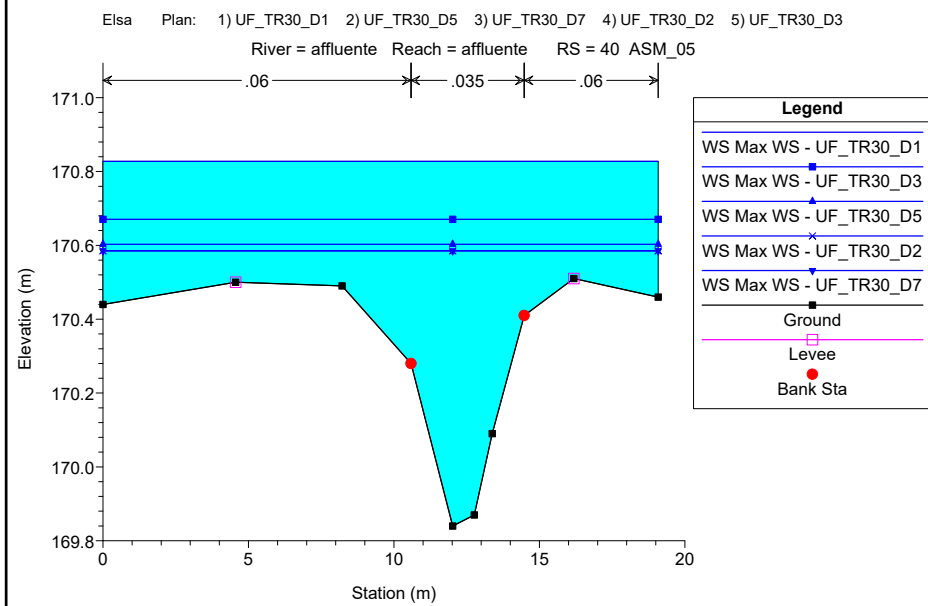
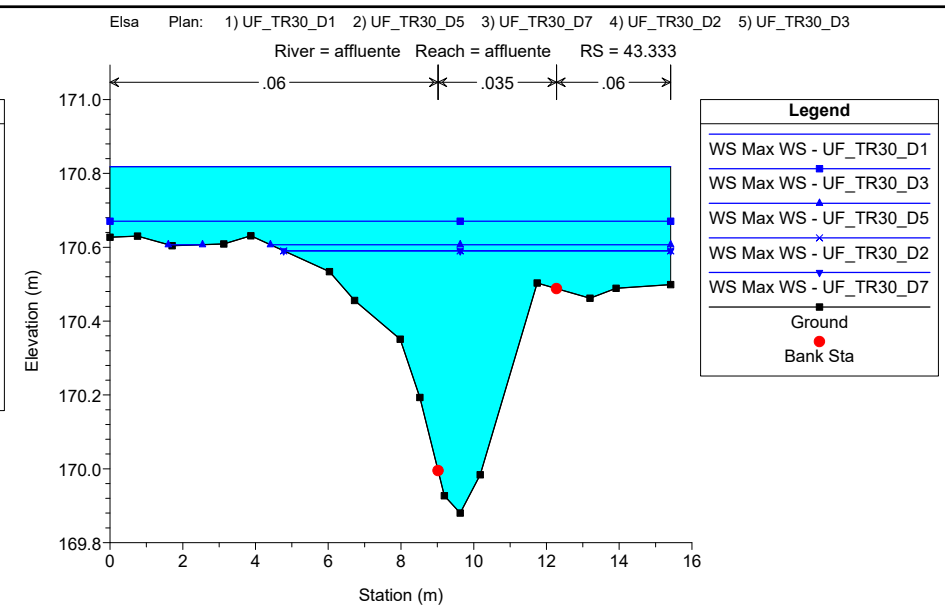
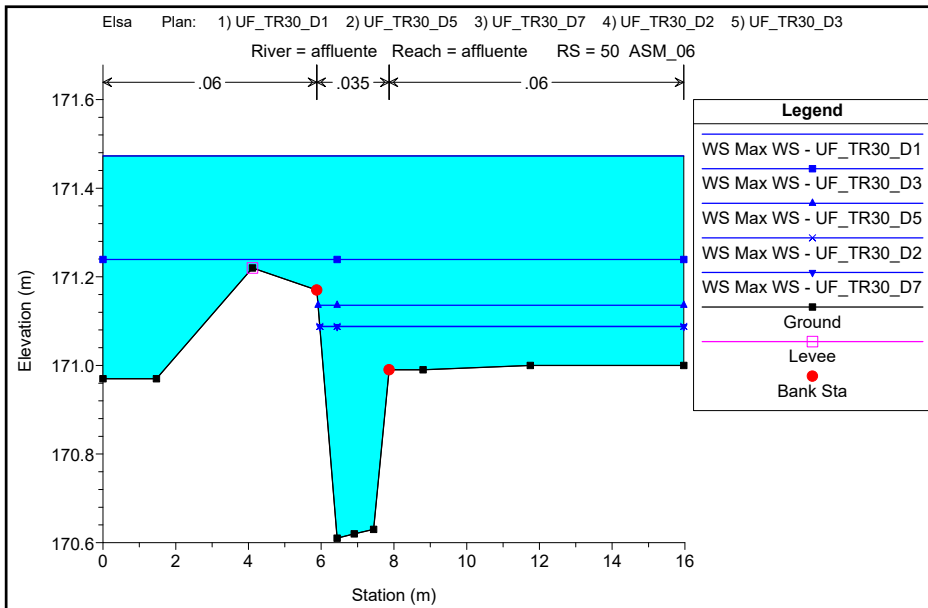
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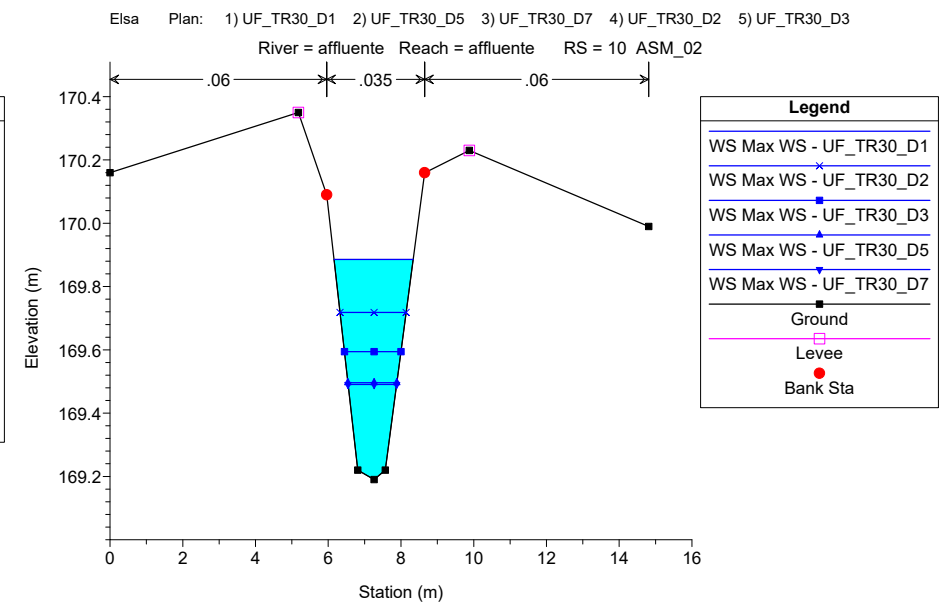
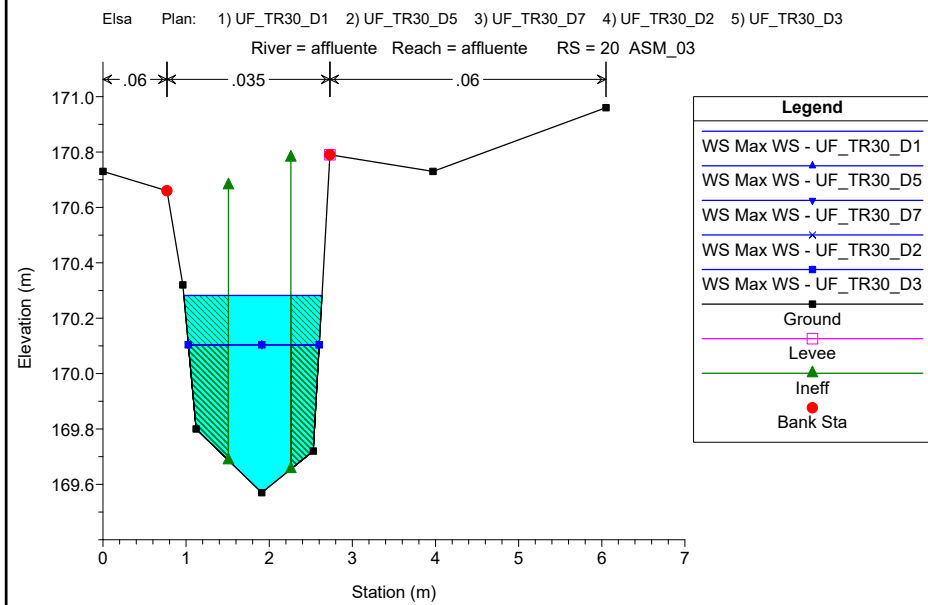
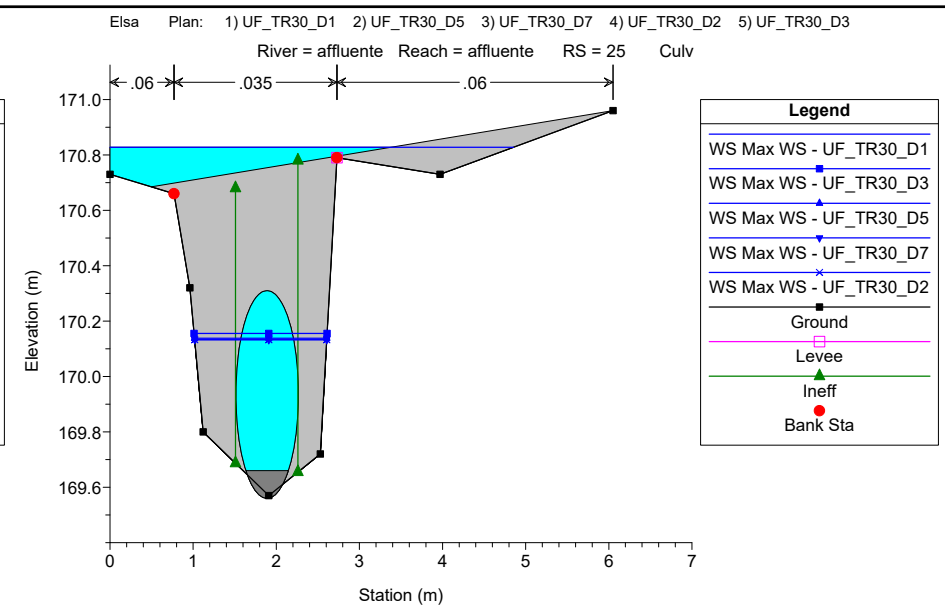
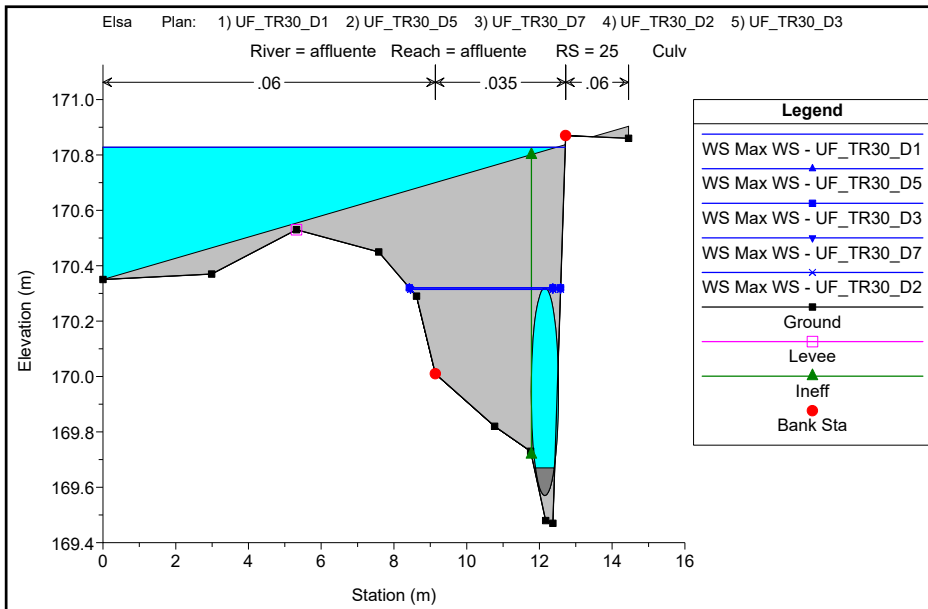
AFFLUENTE DEL FOSSO DI SAN MARZIALE

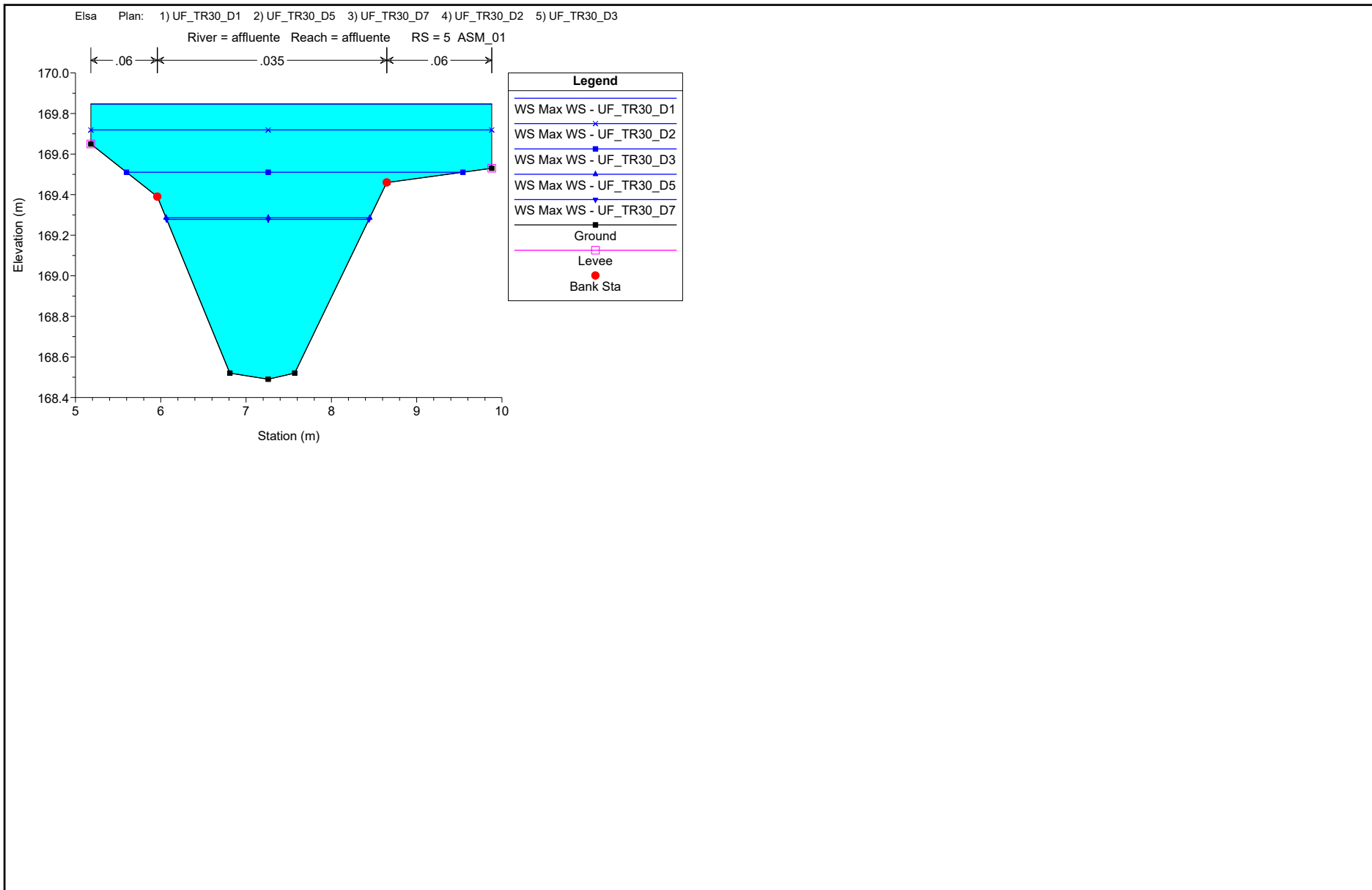
MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

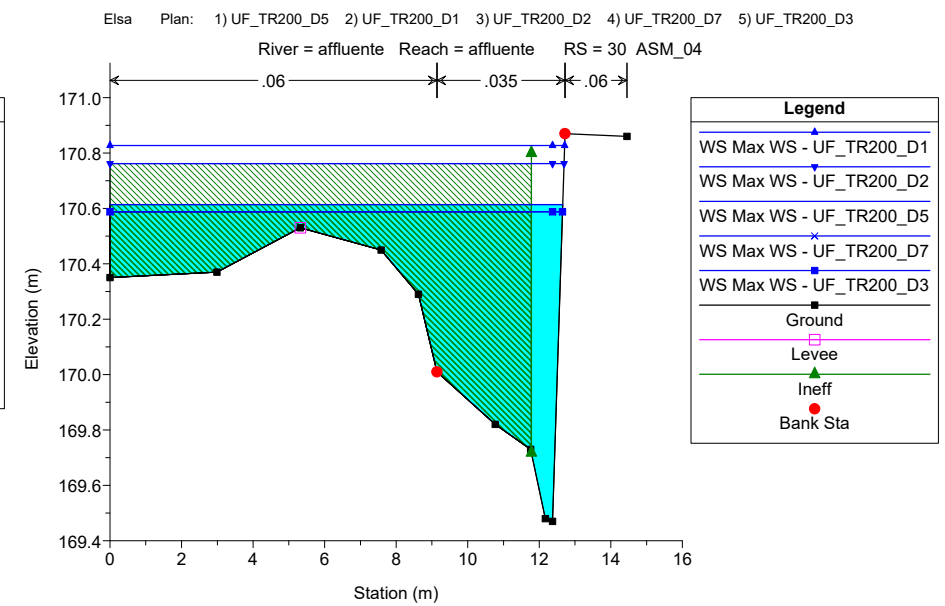
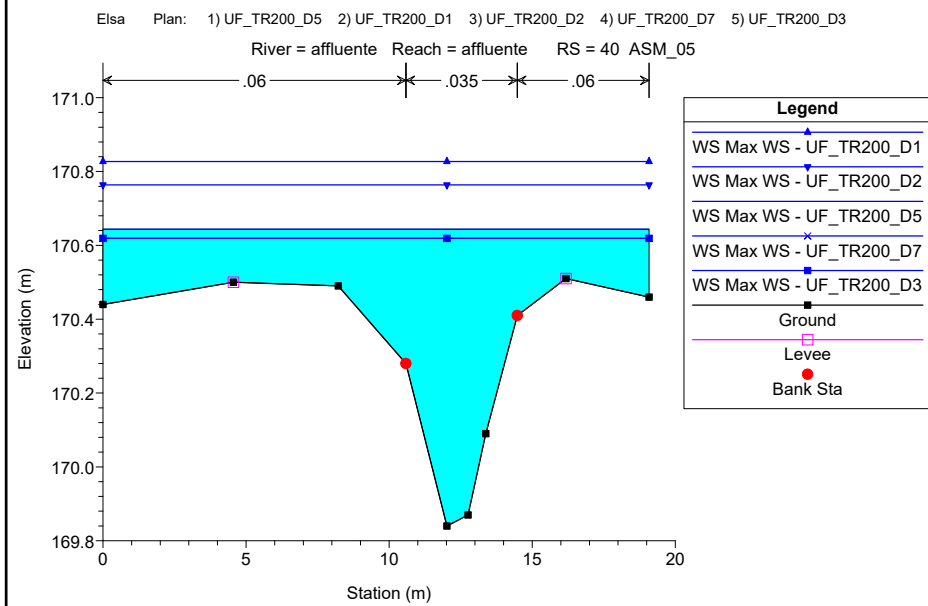
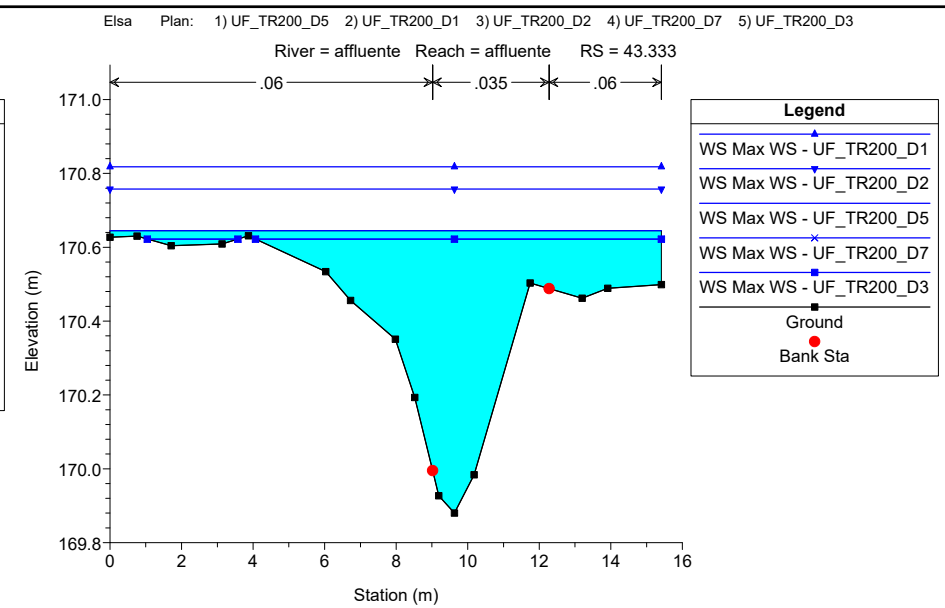
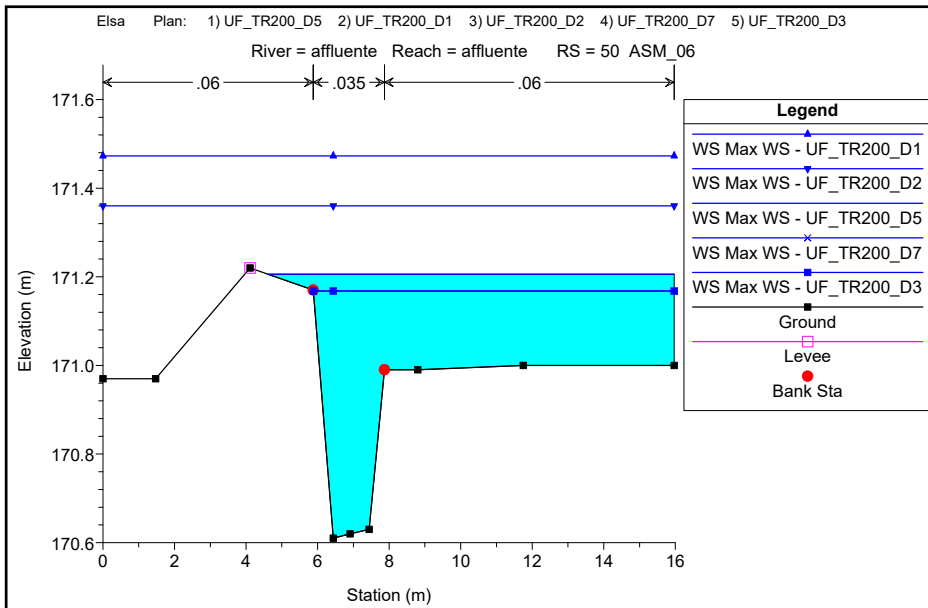
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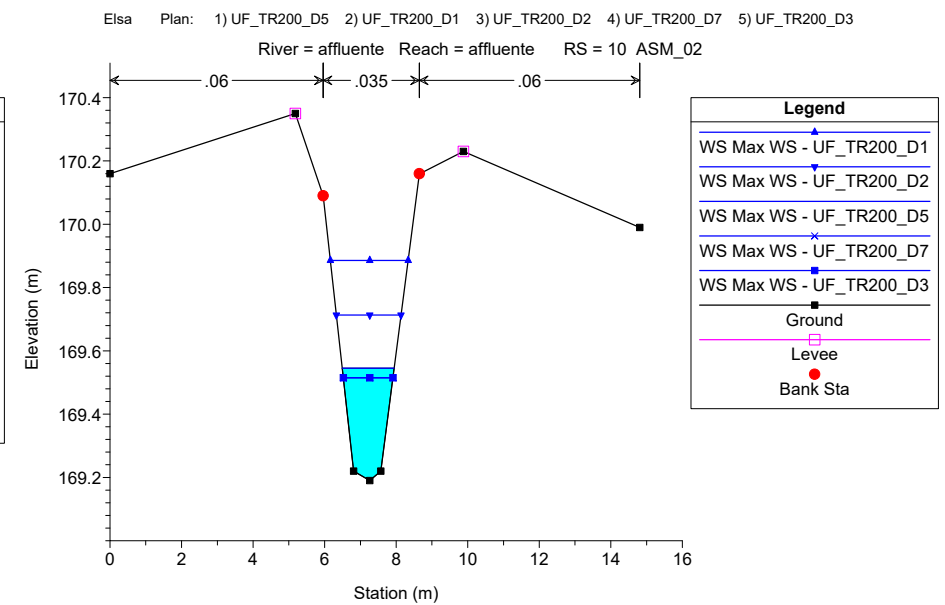
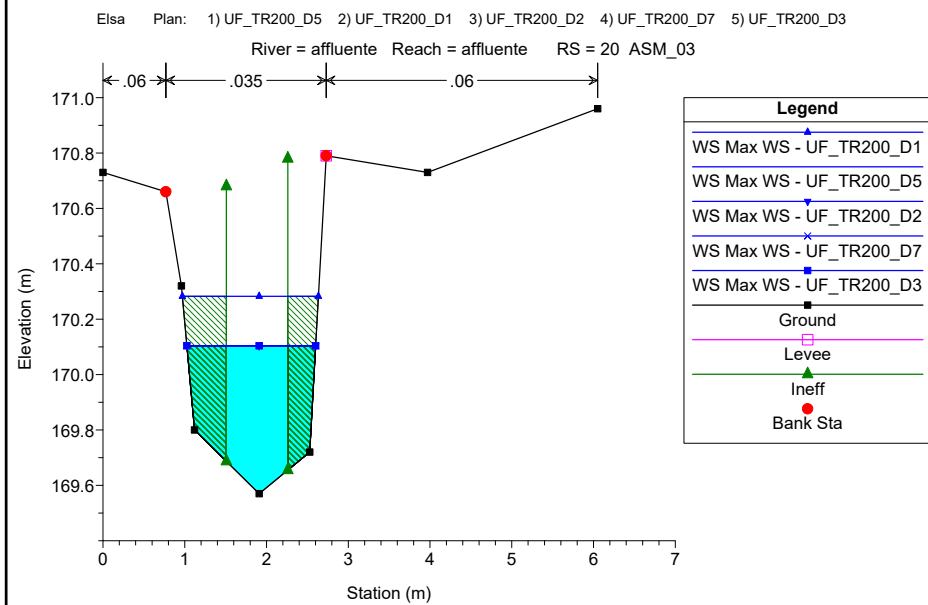
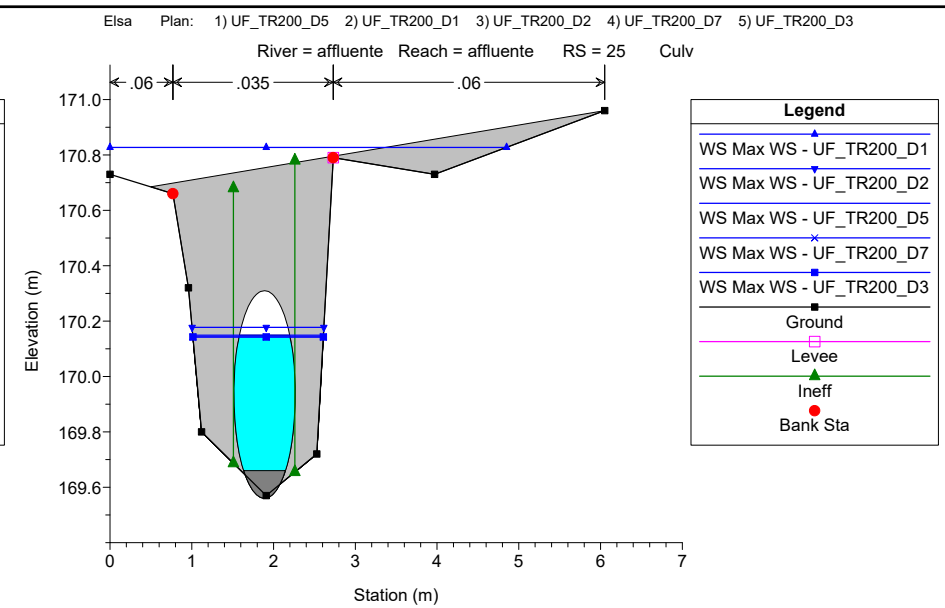
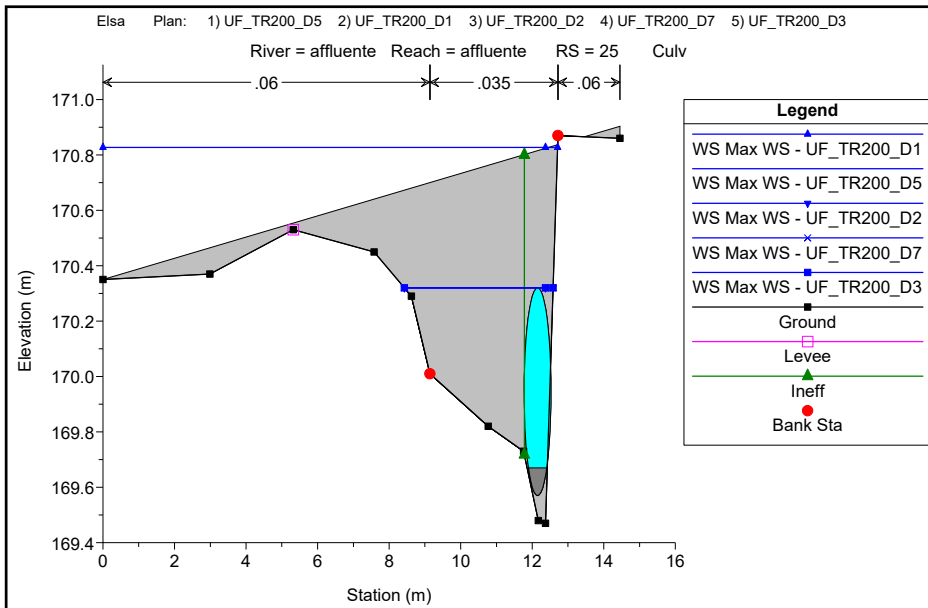
AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

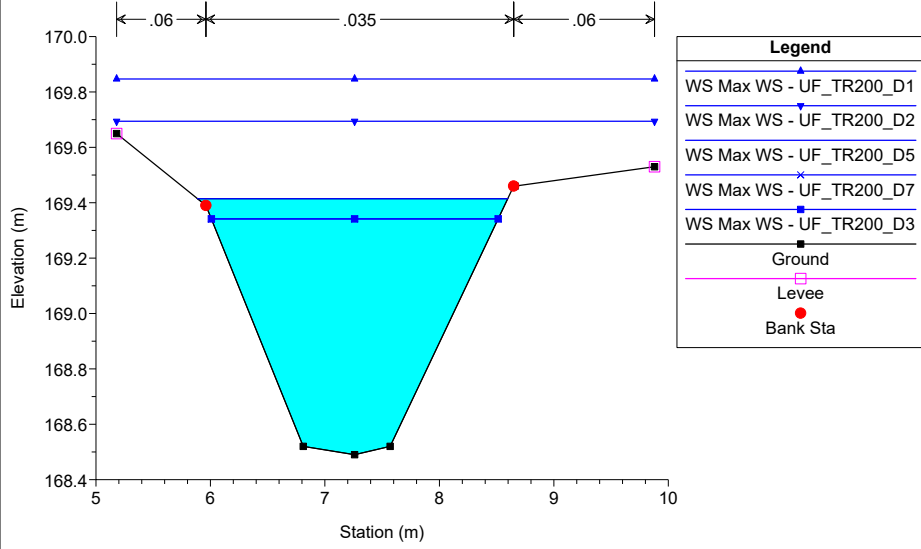
Sezioni Trasversali (da monte verso valle)





Elsa Plan: 1) UF_TR200_D5 2) UF_TR200_D1 3) UF_TR200_D2 4) UF_TR200_D7 5) UF_TR200_D3

River = affluente Reach = affluente RS = 5 ASM_01



ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

HEC-RAS River: affluente Reach: affluente Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
affluente	50	Max WS	UF_TR30_D1	13.00	170.61	171.47	171.50	171.71	0.022550	1.24	3.13	1.47	7.55	15.97	1.16
affluente	50	Max WS	UF_TR30_D5	2.00	170.61	171.14	171.16	171.25	0.015435		1.74	0.55	1.92	10.06	0.87
affluente	50	Max WS	UF_TR30_D7	1.50	170.61	171.09	171.12	171.21	0.016503		1.69	0.43	1.43	10.01	0.89
affluente	50	Max WS	UF_TR30_D2	1.50	170.61	171.09	171.12	171.20	0.016429		1.69	0.43	1.44	10.01	0.89
affluente	50	Max WS	UF_TR30_D3	4.00	170.61	171.24	171.25	171.35	0.015270	0.55	1.99	0.78	3.81	15.97	0.90
affluente	49.99														
affluente	49.98														
affluente	43.333	Max WS	UF_TR30_D1	4.44	169.88	170.82		170.88	0.003853	0.45	1.30	0.47	5.85	15.41	0.52
affluente	43.333	Max WS	UF_TR30_D5	1.46	169.88	170.61		170.63	0.002601	0.27	0.82	0.21	2.64	11.95	0.40
affluente	43.333	Max WS	UF_TR30_D7	0.95	169.88	170.59		170.60	0.001277	0.19	0.56	0.13	2.46	10.64	0.28
affluente	43.333	Max WS	UF_TR30_D2	0.95	169.88	170.59		170.60	0.001274	0.19	0.56	0.13	2.46	10.64	0.28
affluente	43.333	Max WS	UF_TR30_D3	2.36	169.88	170.67		170.72	0.003860	0.29	1.09	0.33	3.57	15.41	0.49
affluente	40	Max WS	UF_TR30_D1	2.00	169.84	170.83		170.83	0.000304	0.15	0.41	0.14	8.49	19.08	0.15
affluente	40	Max WS	UF_TR30_D5	0.74	169.84	170.60		170.61	0.000236	0.07	0.28	0.06	4.21	19.08	0.12
affluente	40	Max WS	UF_TR30_D7	0.72	169.84	170.59		170.59	0.000264	0.07	0.29	0.06	3.87	19.08	0.13
affluente	40	Max WS	UF_TR30_D2	0.72	169.84	170.59		170.59	0.000263	0.07	0.29	0.06	3.87	19.08	0.13
affluente	40	Max WS	UF_TR30_D3	0.94	169.84	170.67		170.67	0.000205	0.08	0.29	0.08	5.50	19.08	0.12
affluente	30	Max WS	UF_TR30_D1	1.63	169.47	170.83		170.83	0.000190	0.12	0.33		7.40	12.71	0.10
affluente	30	Max WS	UF_TR30_D5	0.75	169.47	170.57		170.62	0.003904		1.00		0.75	12.65	0.34
affluente	30	Max WS	UF_TR30_D7	0.74	169.47	170.55		170.60	0.003982		1.00		0.73	12.64	0.35
affluente	30	Max WS	UF_TR30_D2	0.73	169.47	170.55		170.60	0.003984		1.00		0.73	12.64	0.35
affluente	30	Max WS	UF_TR30_D3	0.80	169.47	170.64		170.69	0.003619		0.99		0.81	12.66	0.33
affluente	25														
affluente	20														
affluente	20	Max WS	UF_TR30_D1	1.63	169.57	170.28	170.41	170.83	0.024029		3.28		0.50	1.66	1.29
affluente	20	Max WS	UF_TR30_D5	0.71	169.57	170.10		170.30	0.012842		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR30_D7	0.71	169.57	170.10		170.30	0.012842		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR30_D2	0.71	169.57	170.10		170.30	0.012840		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR30_D3	0.71	169.57	170.10		170.30	0.012840		1.95		0.36	1.58	0.89
affluente	10	Max WS	UF_TR30_D1	1.59	169.19	169.89		170.02	0.012231		1.61		0.99	2.17	0.76
affluente	10	Max WS	UF_TR30_D5	0.75	169.19	169.50	169.60	169.81	0.067548		2.48		0.30	1.35	1.67
affluente	10	Max WS	UF_TR30_D7	0.73	169.19	169.49	169.59	169.80	0.068264		2.47		0.30	1.34	1.68
affluente	10	Max WS	UF_TR30_D2	0.73	169.19	169.72		169.78	0.007790		1.12		0.65	1.82	0.59
affluente	10	Max WS	UF_TR30_D3	0.80	169.19	169.59	169.61	169.76	0.026836				0.44	1.55	1.08
affluente	5	Max WS	UF_TR30_D1	1.65	168.49	169.85		169.86	0.000542	0.15	0.57	0.17	3.39	4.70	0.18
affluente	5	Max WS	UF_TR30_D5	0.75	168.49	169.29		169.31	0.001542		0.62		1.22	2.39	0.28
affluente	5	Max WS	UF_TR30_D7	0.74	168.49	169.28		169.30	0.001557		0.61		1.20	2.37	0.28
affluente	5	Max WS	UF_TR30_D2	0.73	168.49	169.72		169.72	0.000176	0.07	0.30	0.07	2.79	4.70	0.10
affluente	5	Max WS	UF_TR30_D3	0.80	168.49	169.51		169.52	0.000569	0.06	0.44	0.03	1.84	3.94	0.17

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

AFFLUENTE DEL FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
affluente	50	Max WS	UF_TR200_D5	3.10	170.61	171.21	171.22	171.34	0.016473	0.15	1.98	0.74	2.65	11.36	0.92
affluente	50	Max WS	UF_TR200_D1	13.00	170.61	171.47	171.50	171.71	0.022540	1.24	3.13	1.47	7.55	15.97	1.16
affluente	50	Max WS	UF_TR200_D2	8.10	170.61	171.36	171.38	171.54	0.019735	0.93	2.62	1.16	5.75	15.97	1.06
affluente	50	Max WS	UF_TR200_D7	2.40	170.61	171.17	171.18	171.28	0.015121		1.79	0.62	2.24	10.09	0.87
affluente	50	Max WS	UF_TR200_D3	2.40	170.61	171.17	171.18	171.28	0.015121		1.79	0.62	2.24	10.09	0.87
affluente	49.99														
			Lat Struct												
affluente	49.98														
			Lat Struct												
affluente	43.333	Max WS	UF_TR200_D5	1.98	169.88	170.65		170.69	0.003525	0.25	1.01	0.28	3.18	15.41	0.47
affluente	43.333	Max WS	UF_TR200_D1	4.44	169.88	170.82		170.87	0.003857	0.45	1.30	0.47	5.84	15.41	0.52
affluente	43.333	Max WS	UF_TR200_D2	3.51	169.88	170.76		170.81	0.003828	0.39	1.21	0.41	4.92	15.41	0.51
affluente	43.333	Max WS	UF_TR200_D7	1.66	169.88	170.62		170.65	0.002902	0.28	0.89	0.23	2.84	13.87	0.42
affluente	43.333	Max WS	UF_TR200_D3	1.66	169.88	170.62		170.65	0.002912	0.28	0.89	0.23	2.84	13.87	0.42
affluente	40	Max WS	UF_TR200_D5	0.82	169.84	170.64		170.65	0.000197	0.07	0.27	0.07	4.98	19.08	0.11
affluente	40	Max WS	UF_TR200_D1	2.00	169.84	170.83		170.83	0.000305	0.15	0.41	0.14	8.48	19.08	0.15
affluente	40	Max WS	UF_TR200_D2	1.44	169.84	170.76		170.77	0.000238	0.11	0.34	0.11	7.28	19.08	0.13
affluente	40	Max WS	UF_TR200_D7	0.77	169.84	170.62		170.62	0.000220	0.07	0.28	0.07	4.52	19.08	0.12
affluente	40	Max WS	UF_TR200_D3	0.77	169.84	170.62		170.62	0.000222	0.07	0.28	0.07	4.52	19.08	0.12
affluente	30	Max WS	UF_TR200_D5	0.78	169.47	170.61		170.66	0.003746		0.99		0.79	12.66	0.33
affluente	30	Max WS	UF_TR200_D1	1.63	169.47	170.83		170.83	0.000190	0.12	0.33		7.40	12.71	0.10
affluente	30	Max WS	UF_TR200_D2	0.87	169.47	170.76		170.81	0.003092		0.95		0.92	12.69	0.30
affluente	30	Max WS	UF_TR200_D7	0.76	169.47	170.59		170.64	0.003852		1.00		0.76	12.65	0.34
affluente	30	Max WS	UF_TR200_D3	0.76	169.47	170.59		170.64	0.003852		1.00		0.76	12.65	0.34
affluente	25														
			Culvert												
affluente	20	Max WS	UF_TR200_D5	0.71	169.57	170.10		170.30	0.012842		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR200_D1	1.63	169.57	170.28	170.40	170.83	0.023970		3.28		0.50	1.66	1.29
affluente	20	Max WS	UF_TR200_D2	0.71	169.57	170.10		170.30	0.012842		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR200_D7	0.71	169.57	170.10		170.30	0.012841		1.95		0.36	1.58	0.89
affluente	20	Max WS	UF_TR200_D3	0.71	169.57	170.10		170.30	0.012844		1.95		0.36	1.58	0.89
affluente	10	Max WS	UF_TR200_D5	0.78	169.19	169.55		169.77	0.041983		2.11		0.37	1.45	1.33
affluente	10	Max WS	UF_TR200_D1	1.59	169.19	169.89		170.02	0.012243		1.61		0.99	2.17	0.77
affluente	10	Max WS	UF_TR200_D2	0.87	169.19	169.71		169.81	0.011595		1.36		0.64	1.81	0.73
affluente	10	Max WS	UF_TR200_D7	0.76	169.19	169.51	169.60	169.79	0.056068		2.33		0.33	1.39	1.53
affluente	10	Max WS	UF_TR200_D3	0.76	169.19	169.51	169.60	169.79	0.056079		2.33		0.33	1.39	1.53
affluente	5	Max WS	UF_TR200_D5	0.78	168.49	169.41		169.43	0.000885	0.03	0.51		1.54	2.71	0.21
affluente	5	Max WS	UF_TR200_D1	1.69	168.49	169.85		169.86	0.000566	0.16	0.58	0.17	3.39	4.70	0.19
affluente	5	Max WS	UF_TR200_D2	0.87	168.49	169.69		169.70	0.000280	0.08	0.37	0.09	2.67	4.70	0.13
affluente	5	Max WS	UF_TR200_D7	0.76	168.49	169.34		169.36	0.001209		0.56		1.35	2.51	0.25
affluente	5	Max WS	UF_TR200_D3	0.76	168.49	169.34		169.36	0.001209		0.56		1.35	2.51	0.25

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

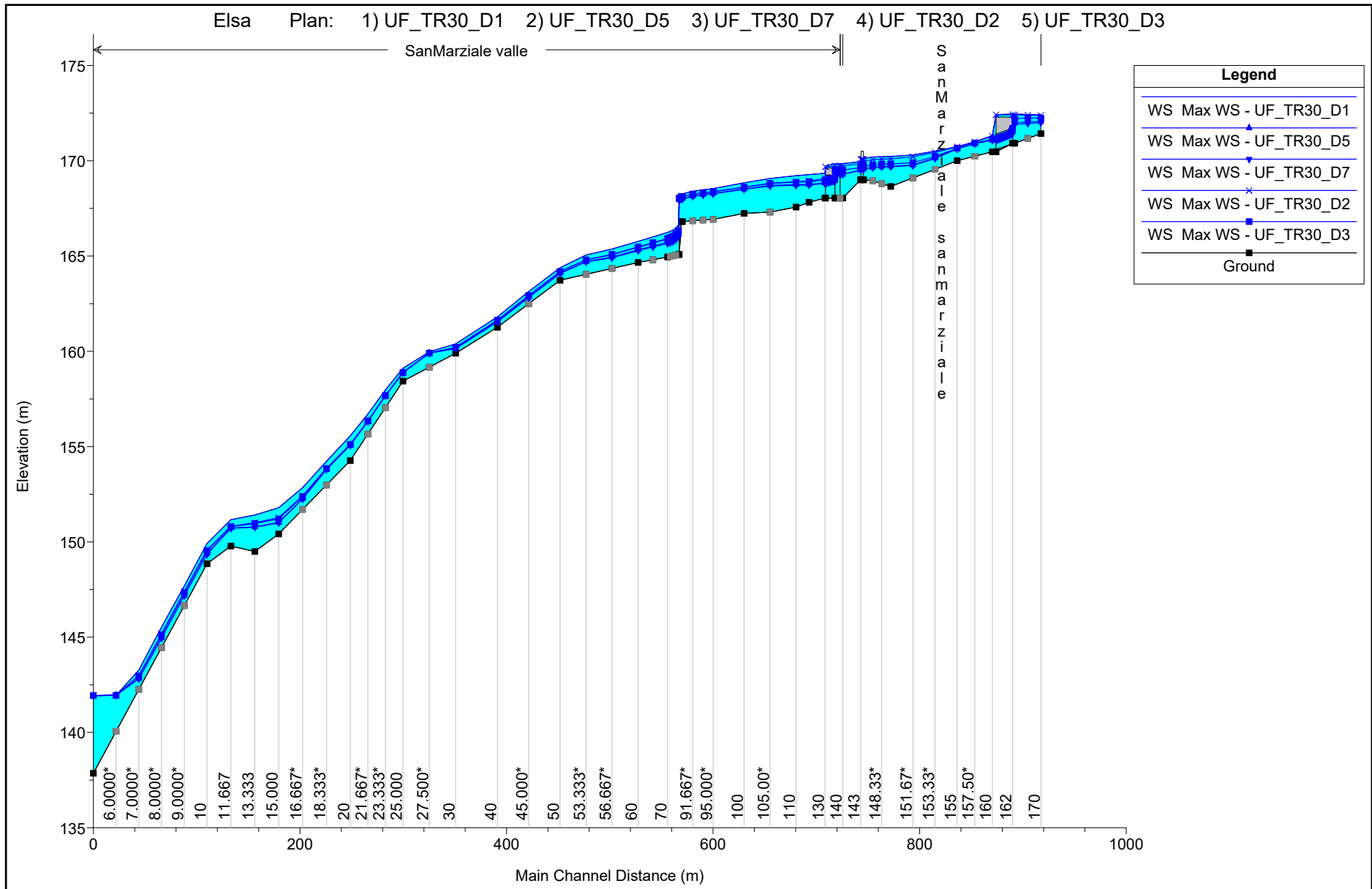
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

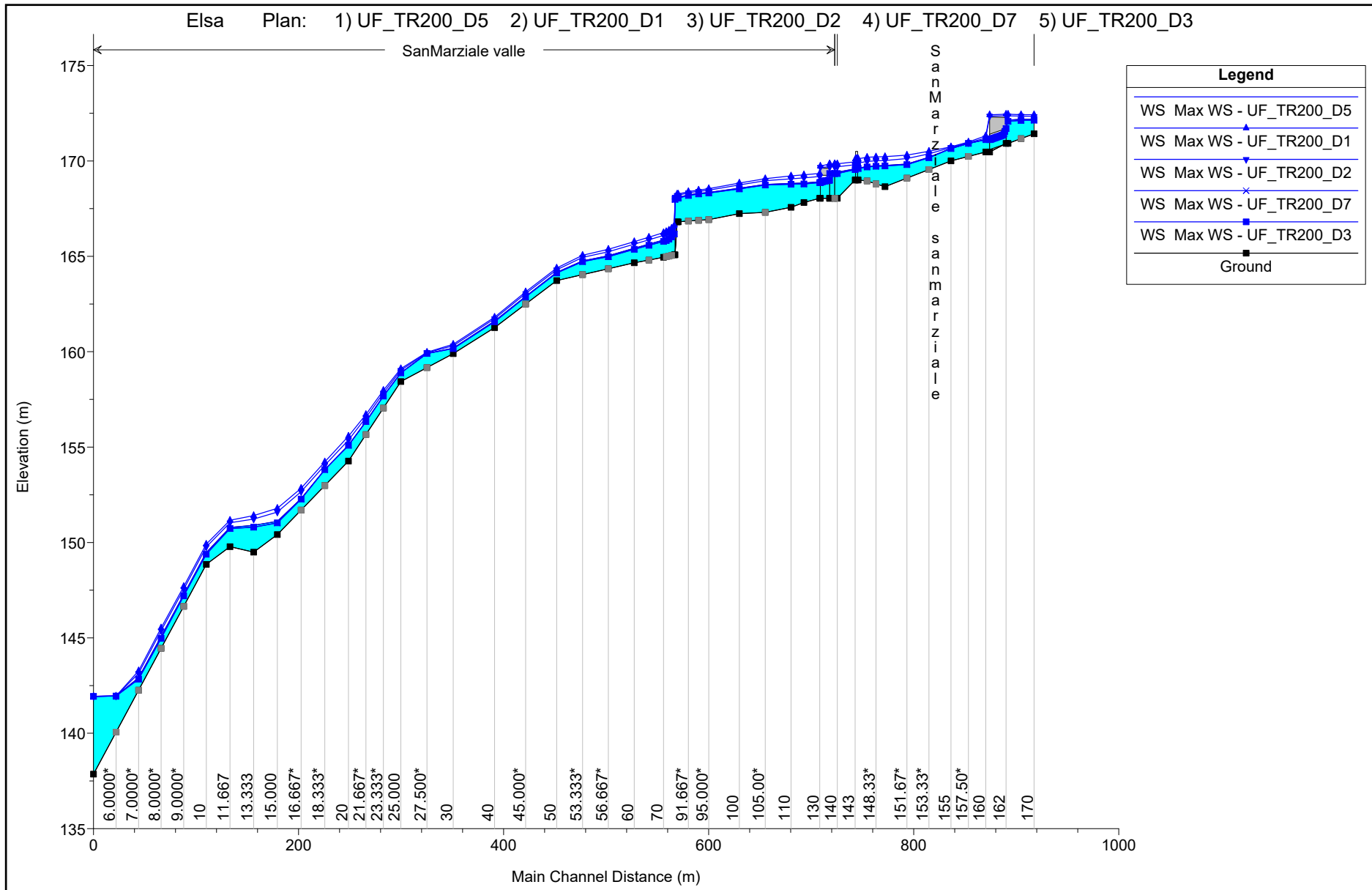
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

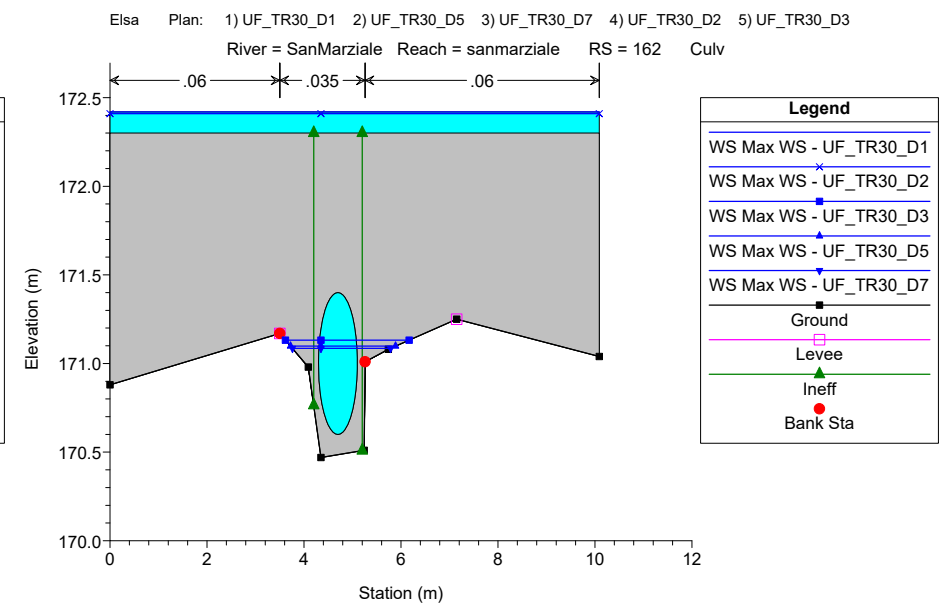
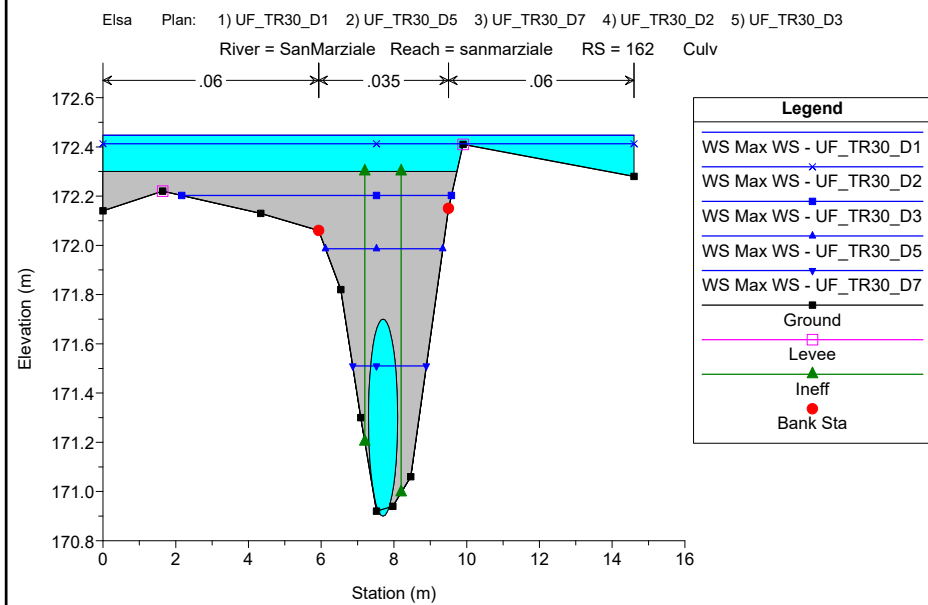
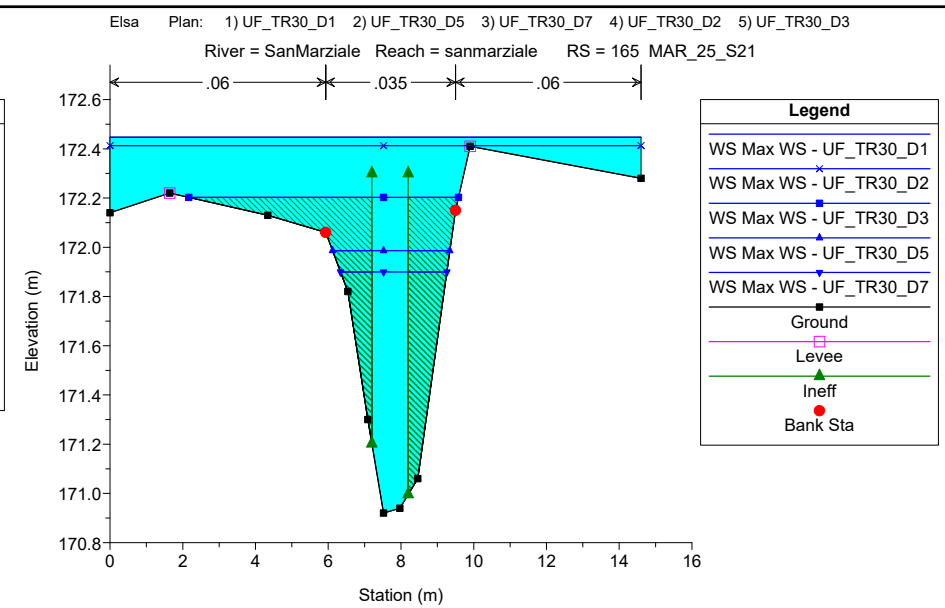
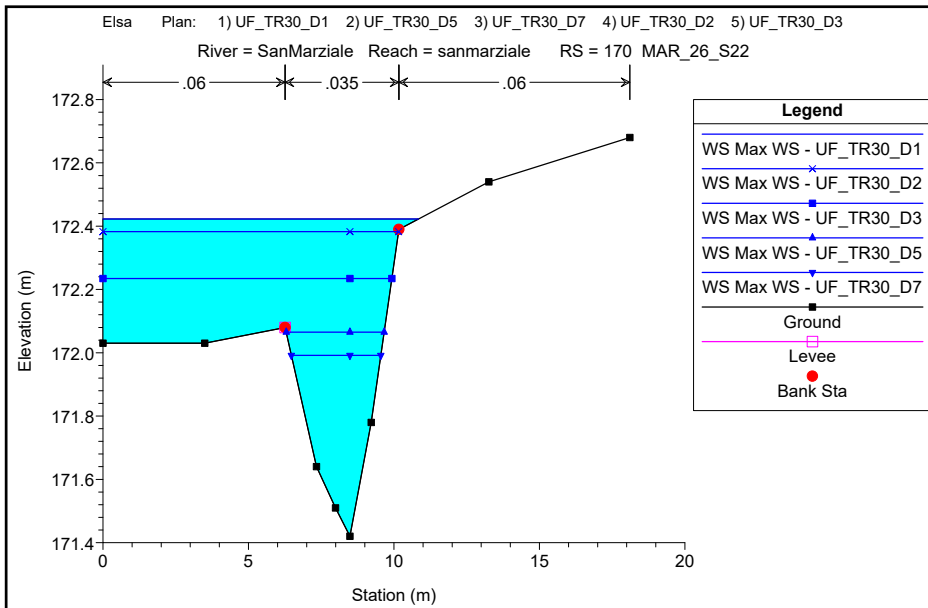
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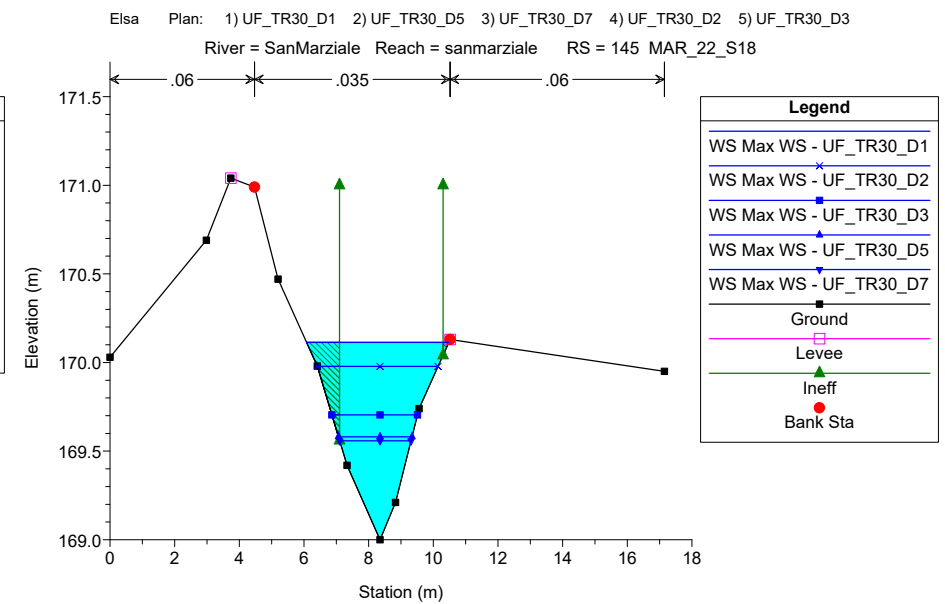
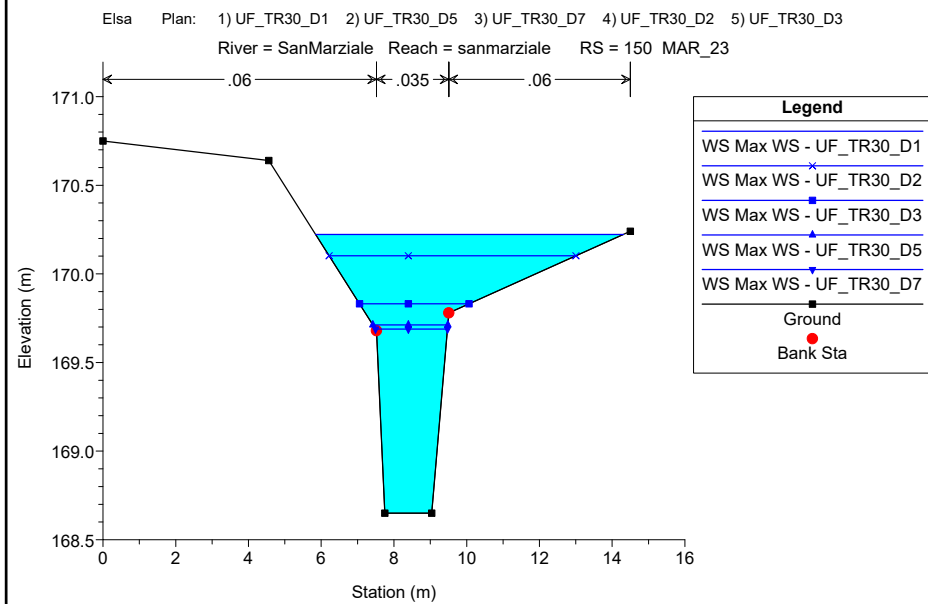
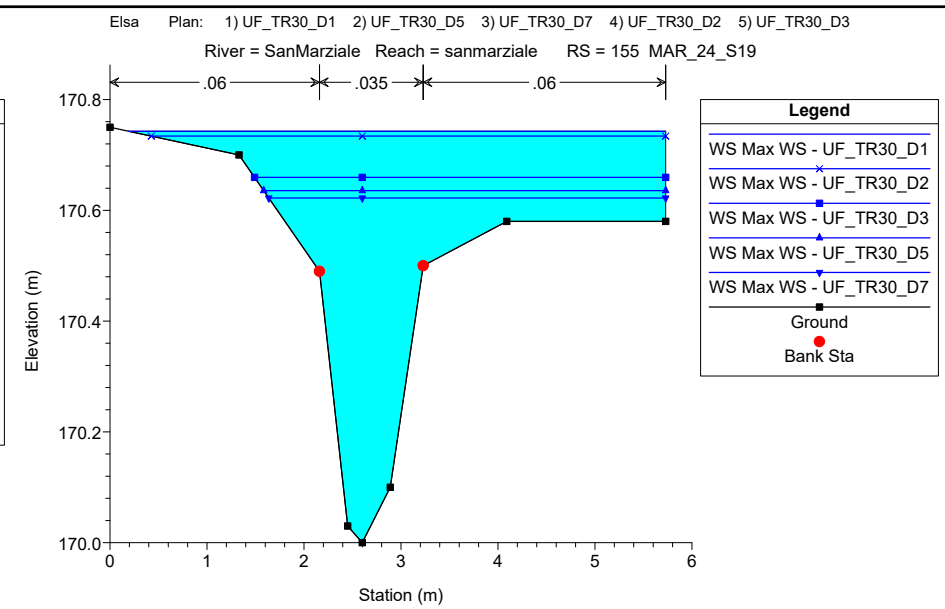
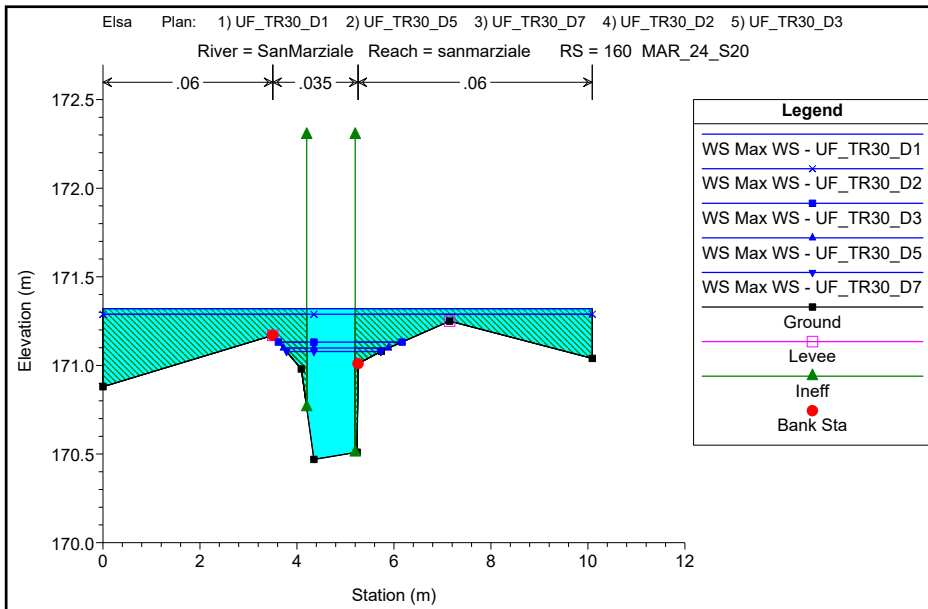
FOSSO DI SAN MARZIALE

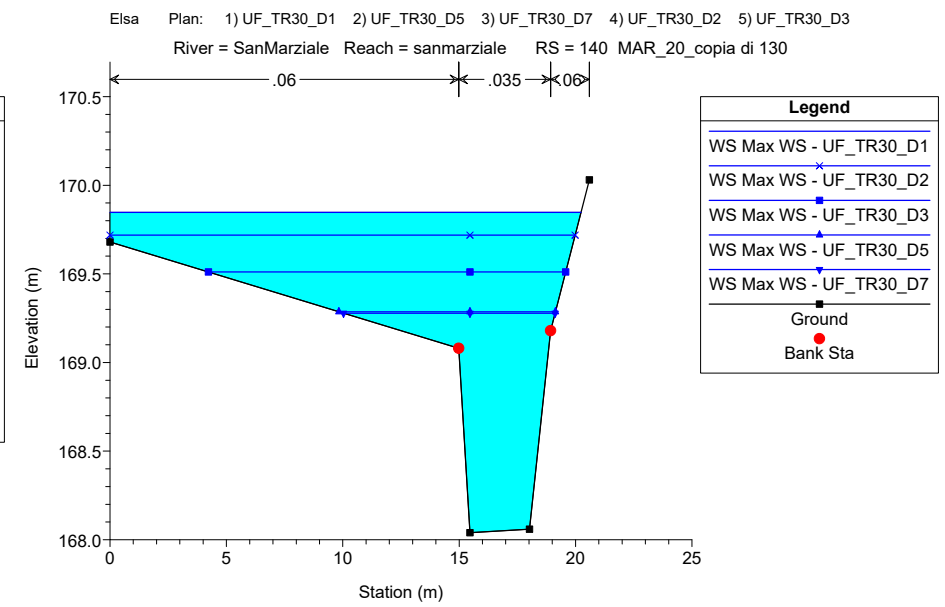
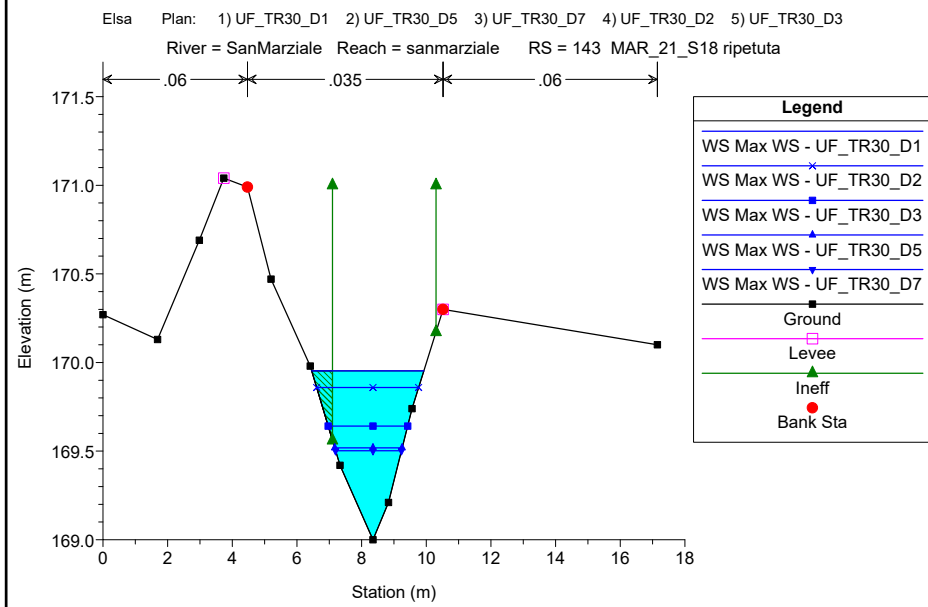
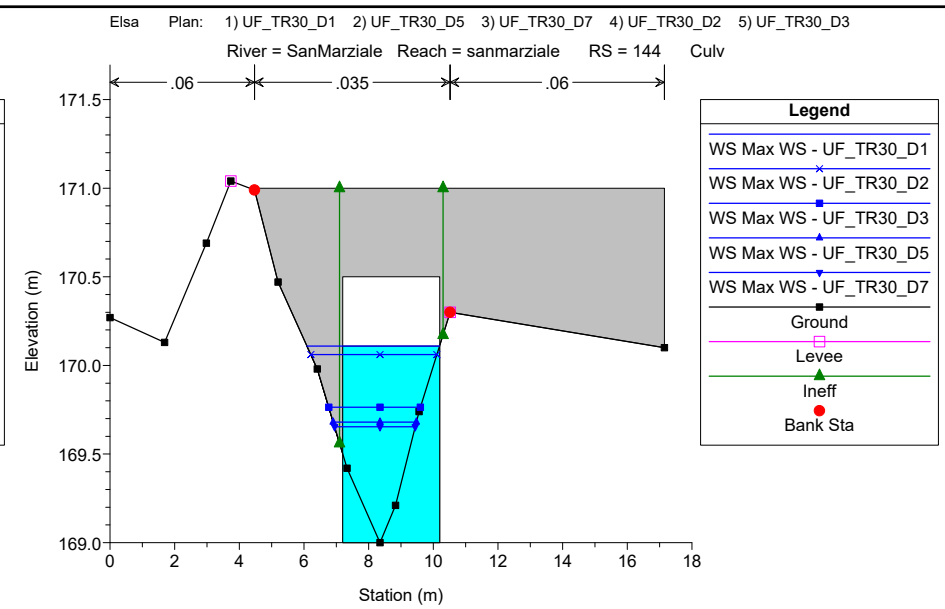
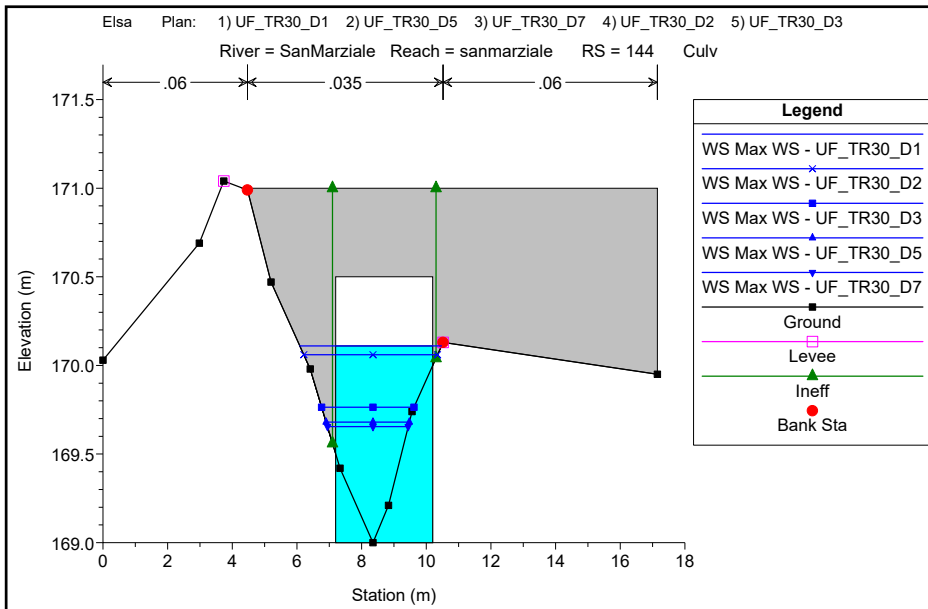
MODELLAZIONE PER TR=30 anni

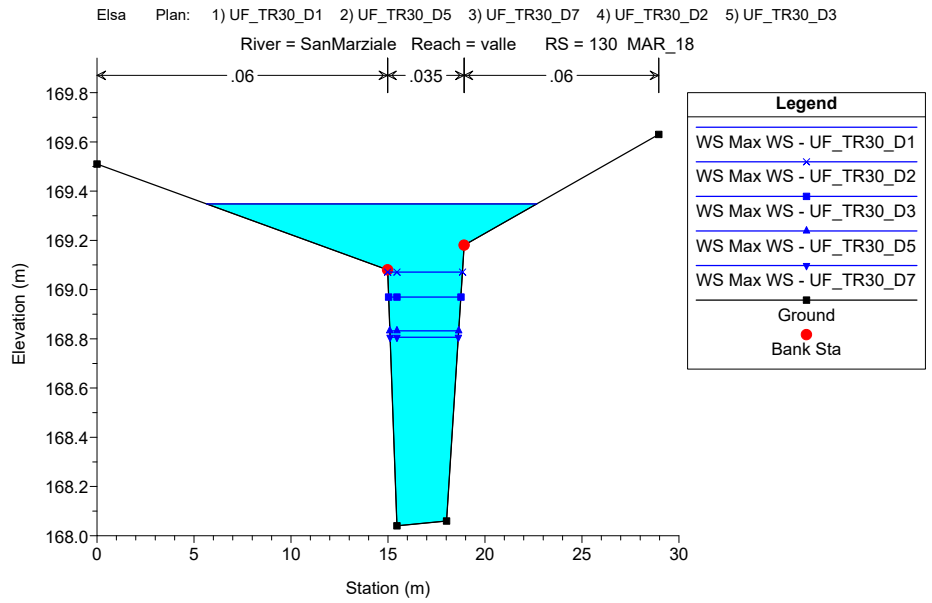
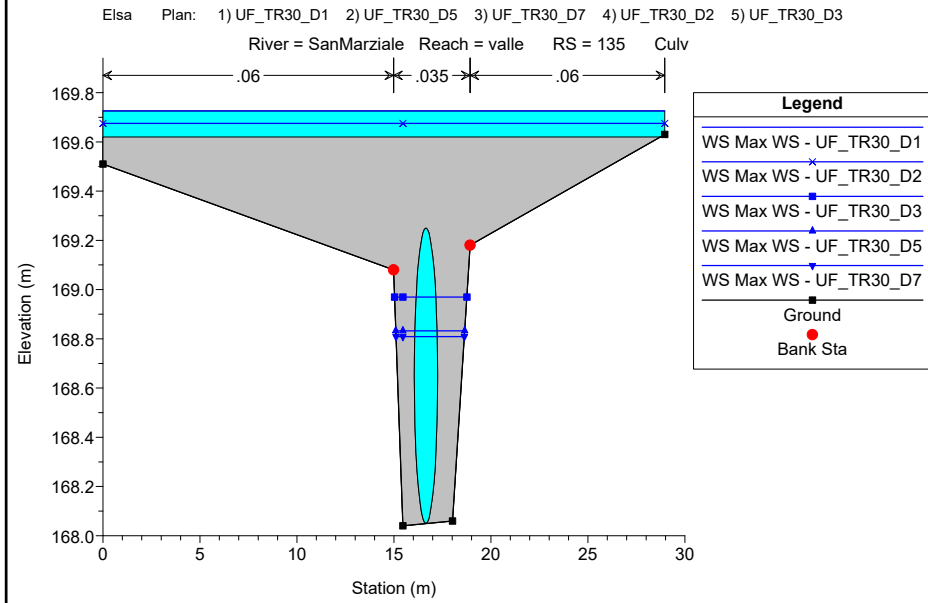
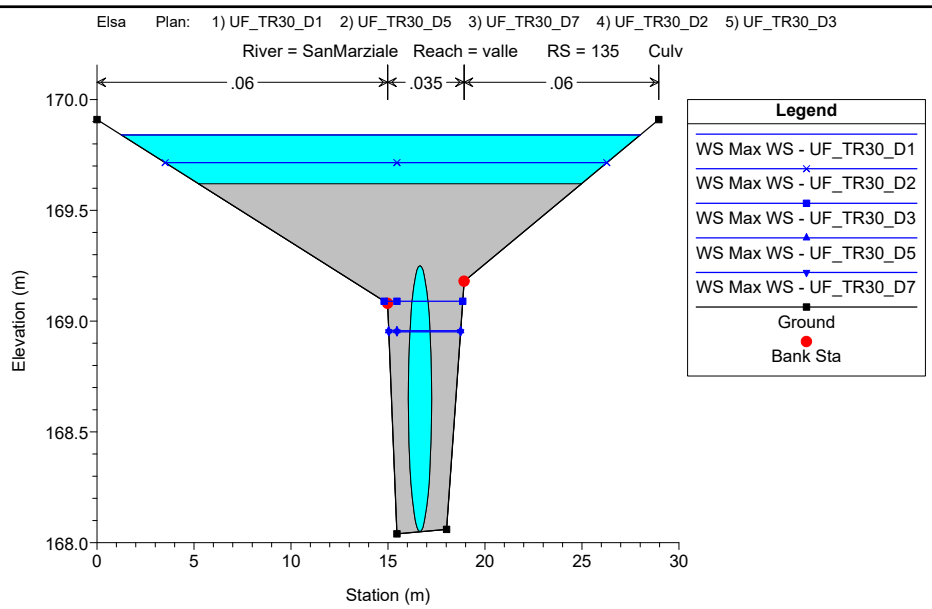
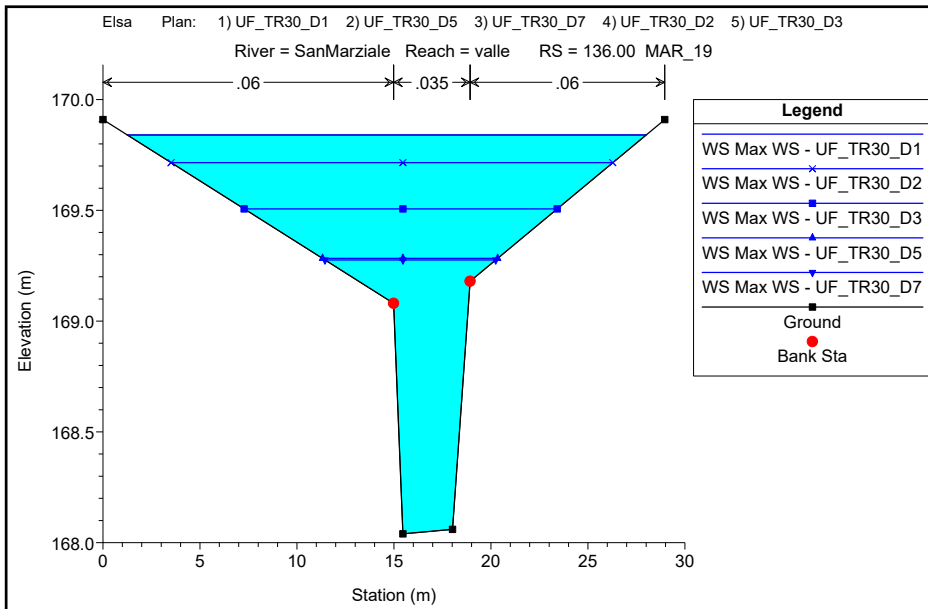
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

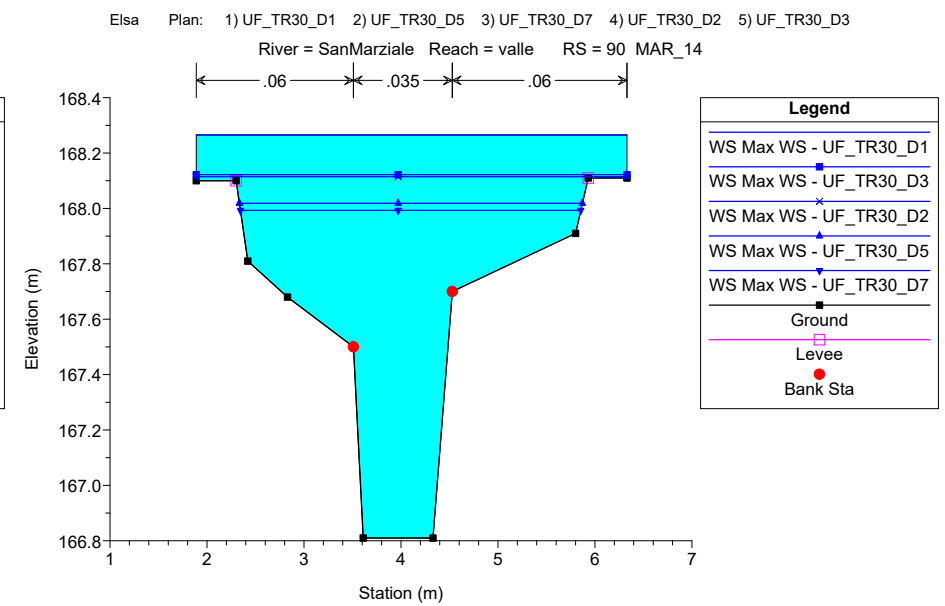
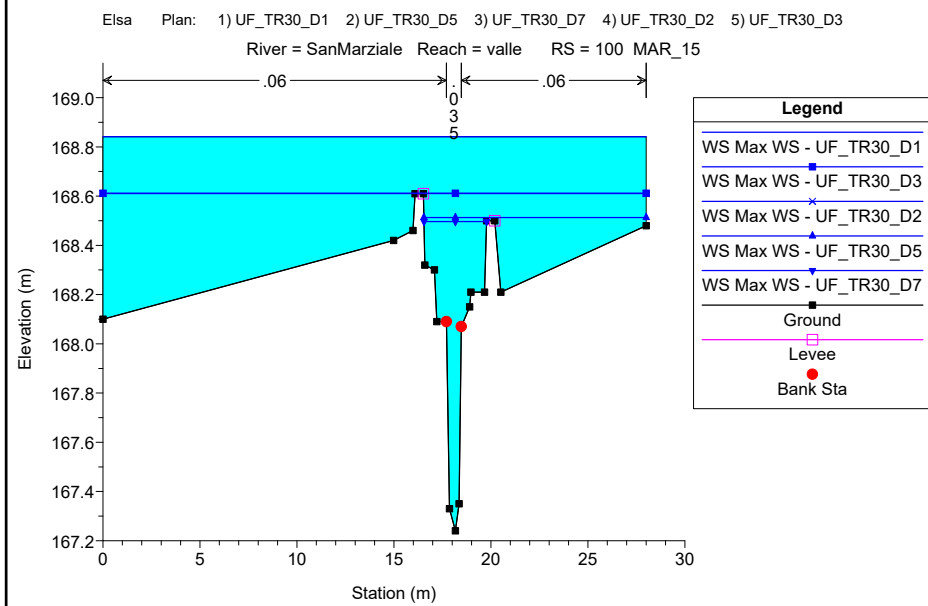
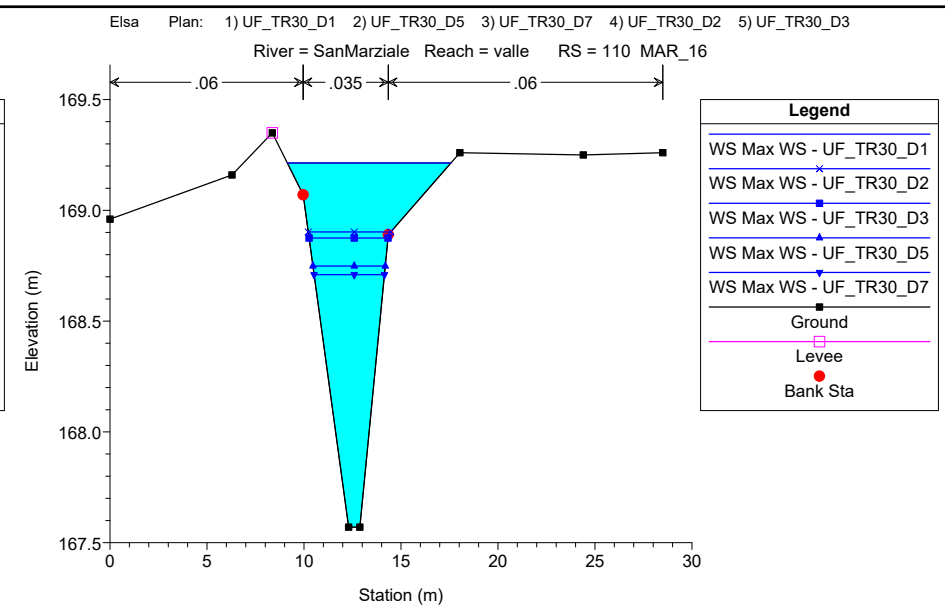
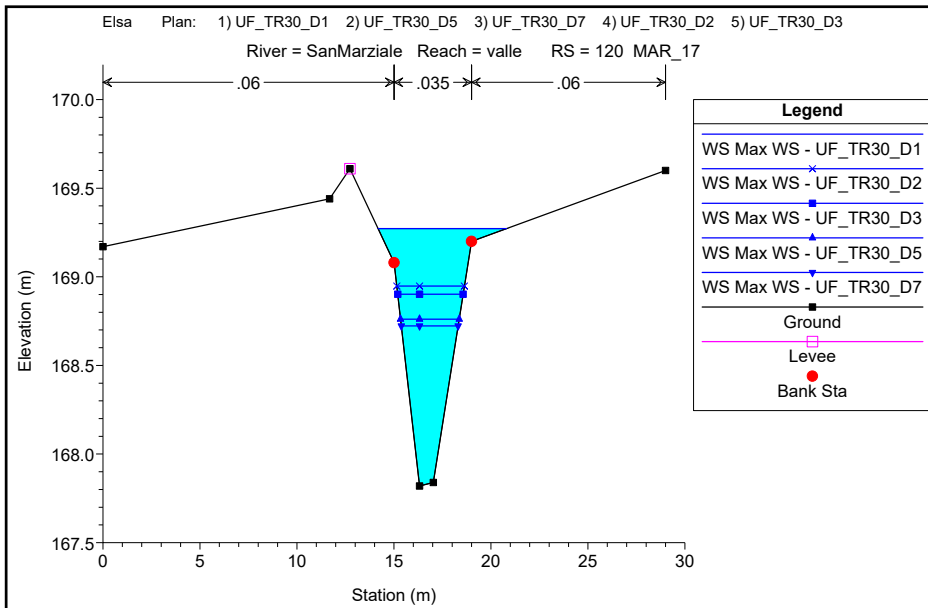
Sezioni Trasversali (da monte verso valle)

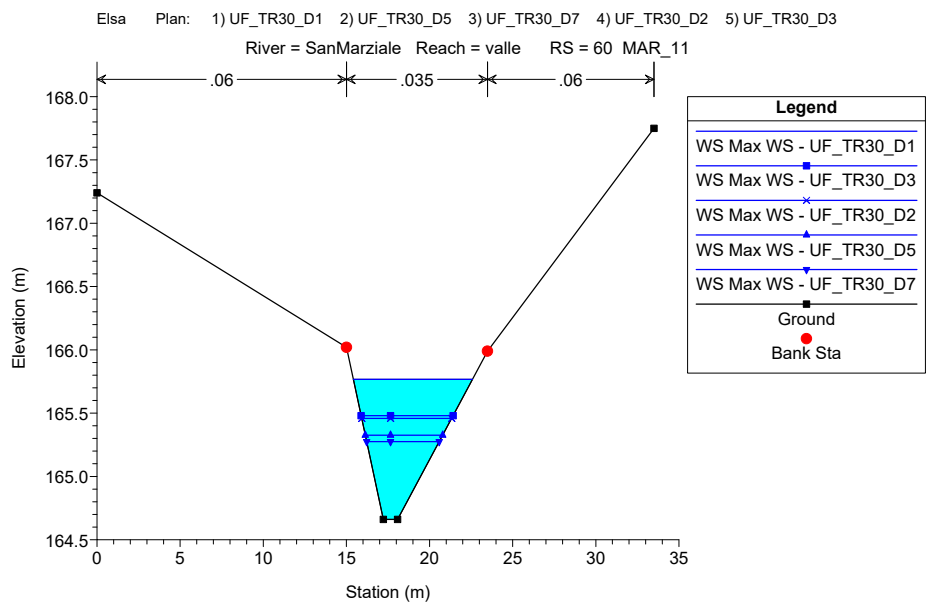
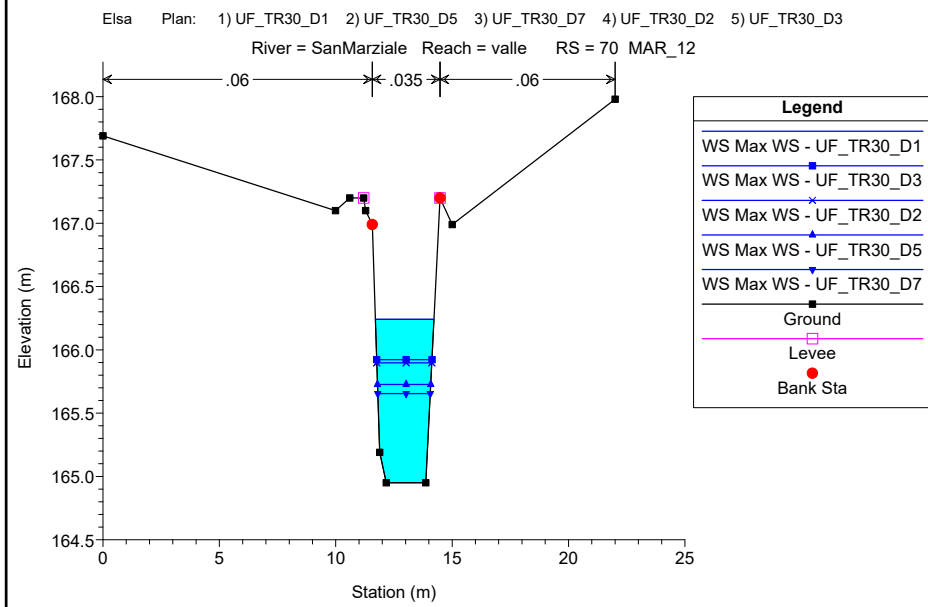
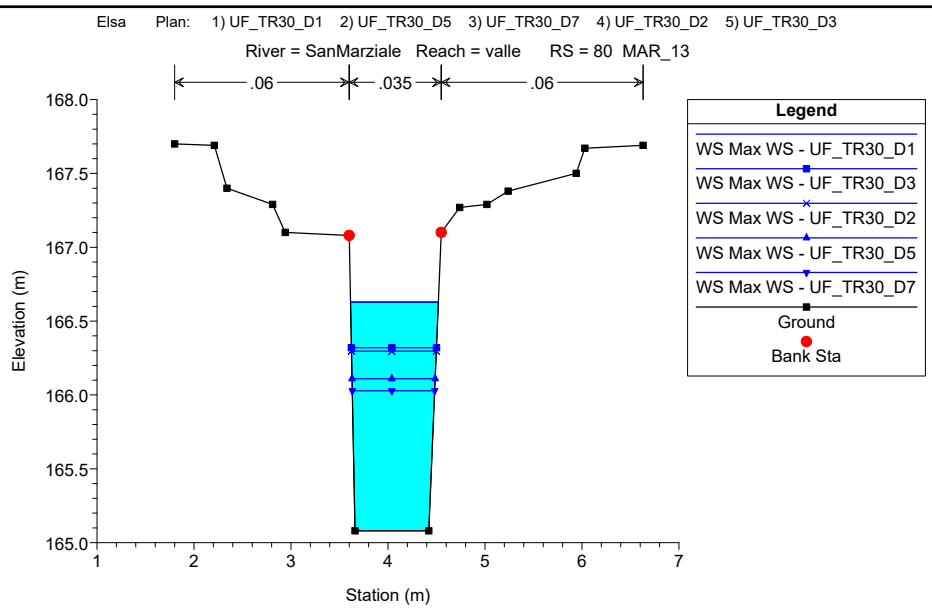
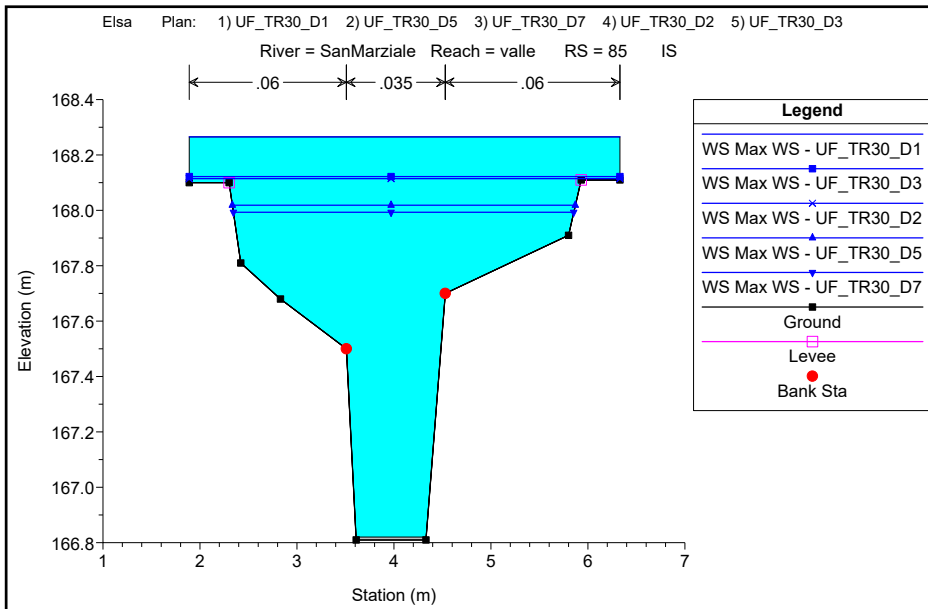


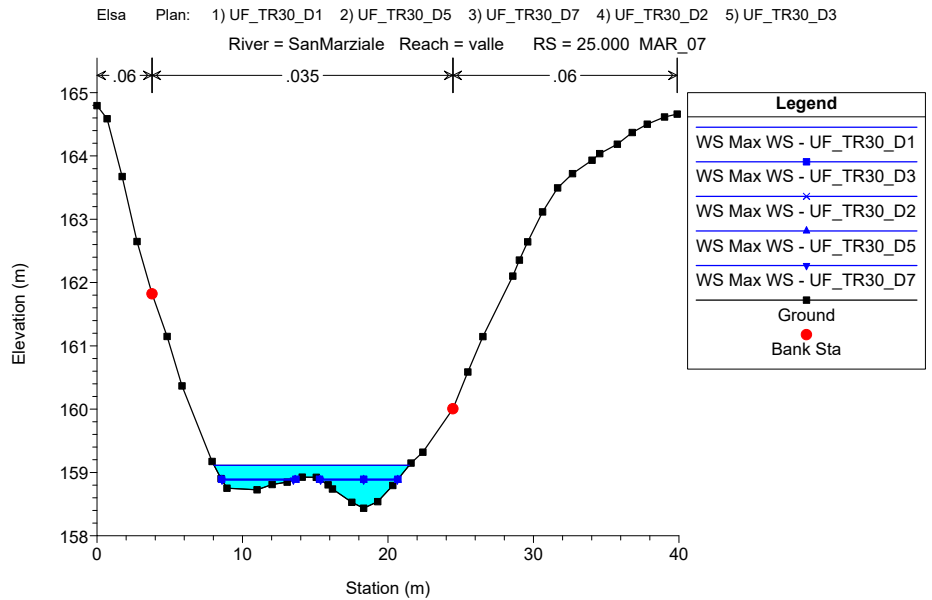
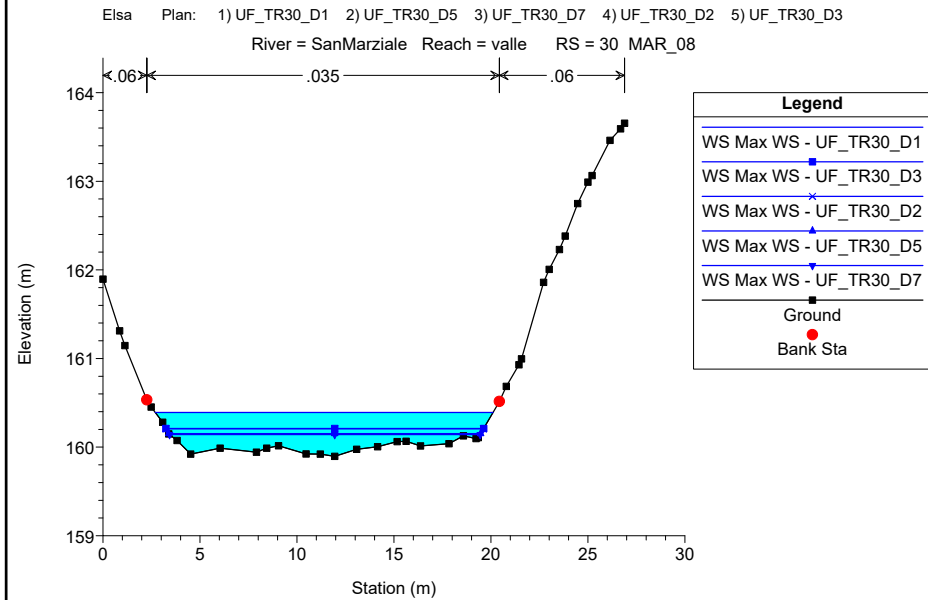
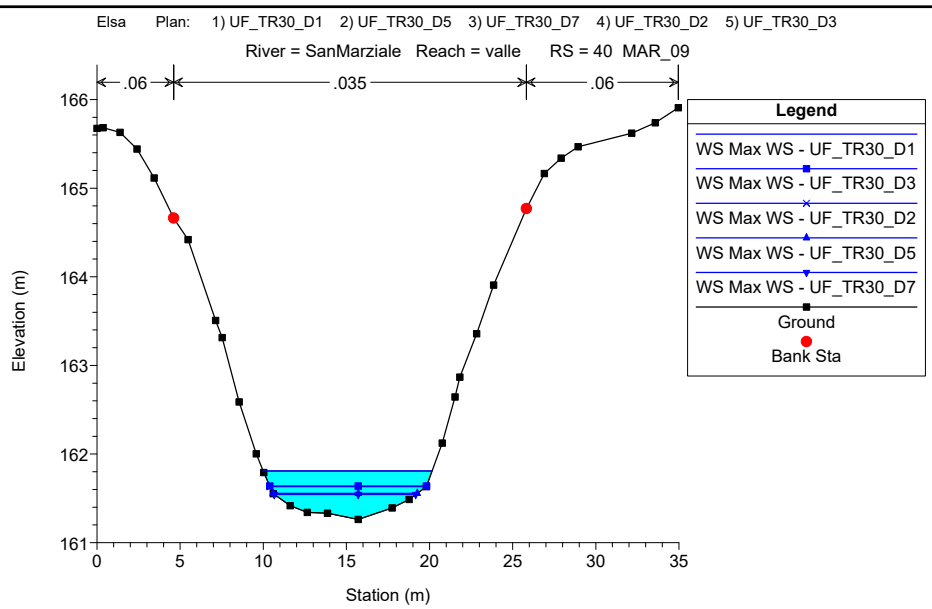
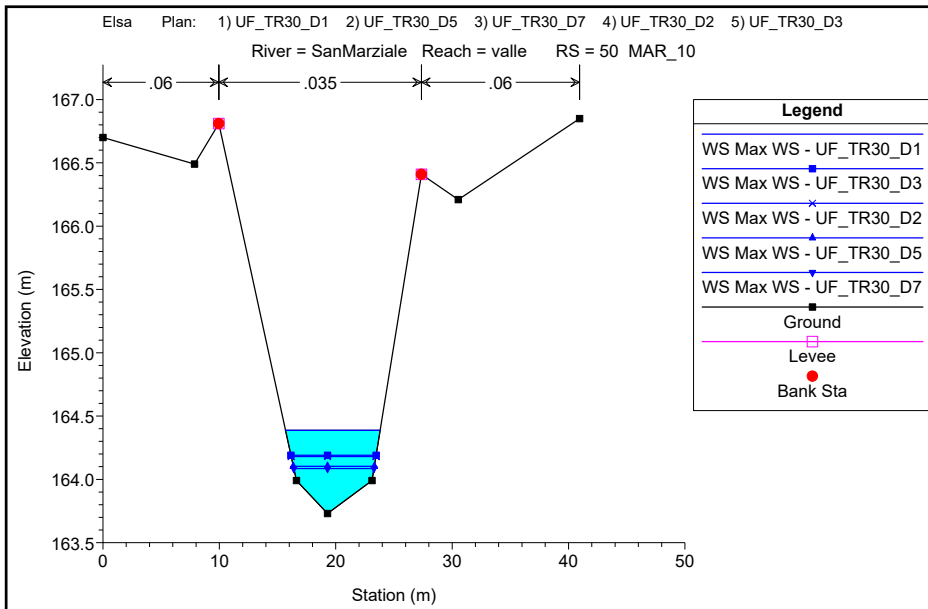


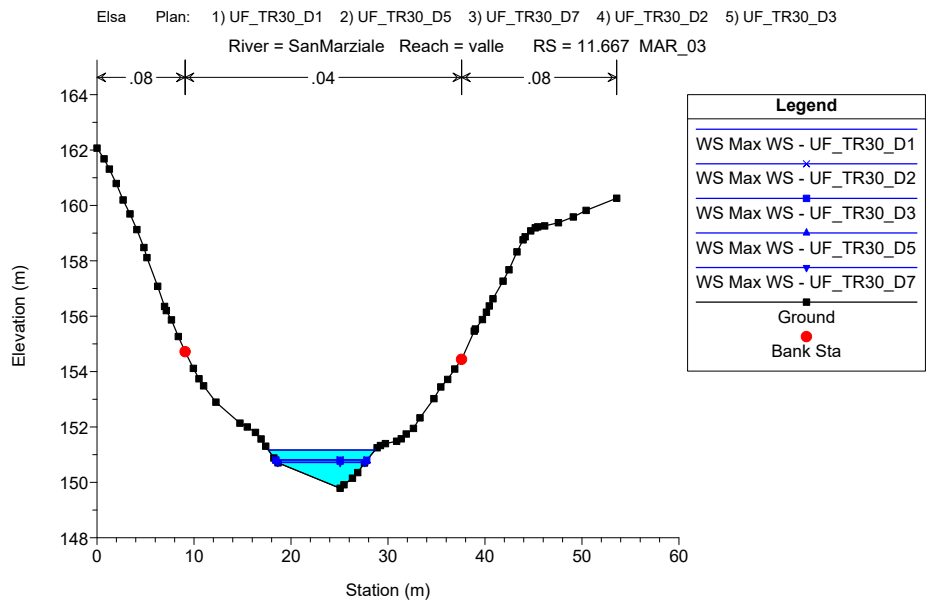
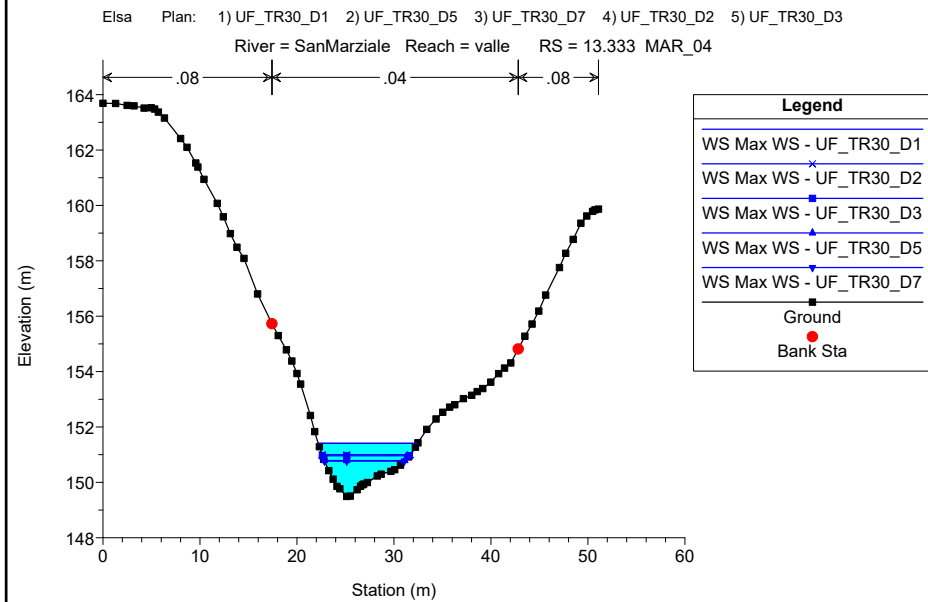
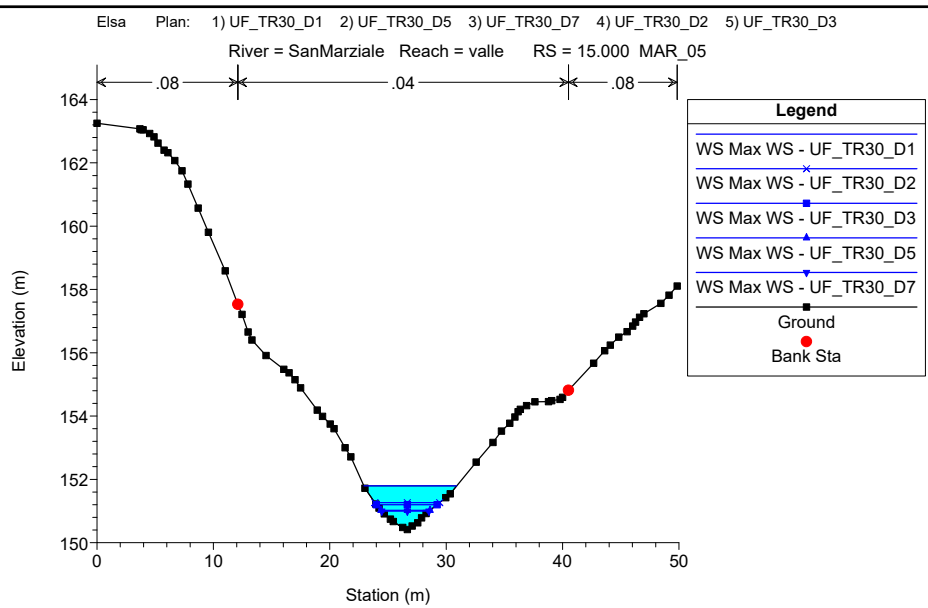
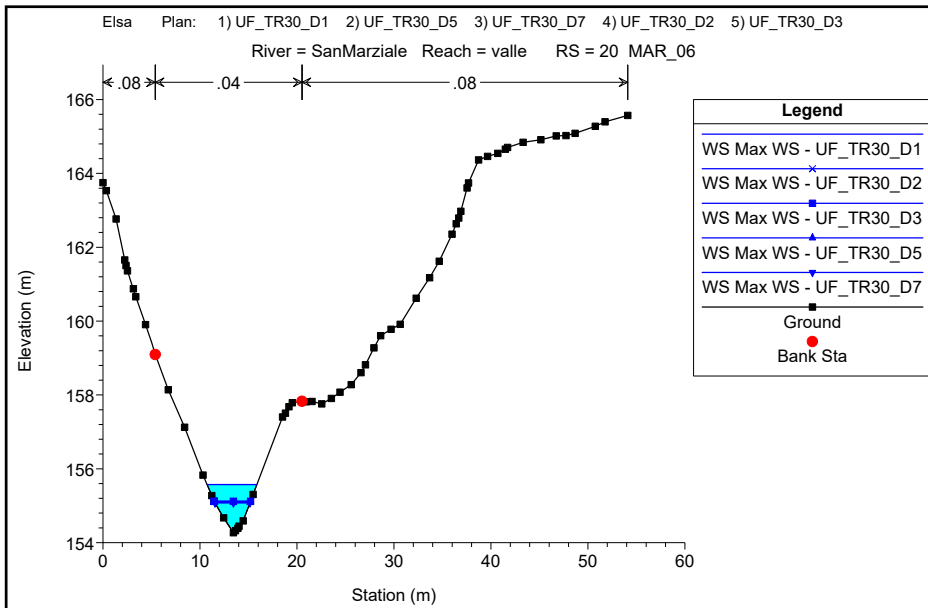


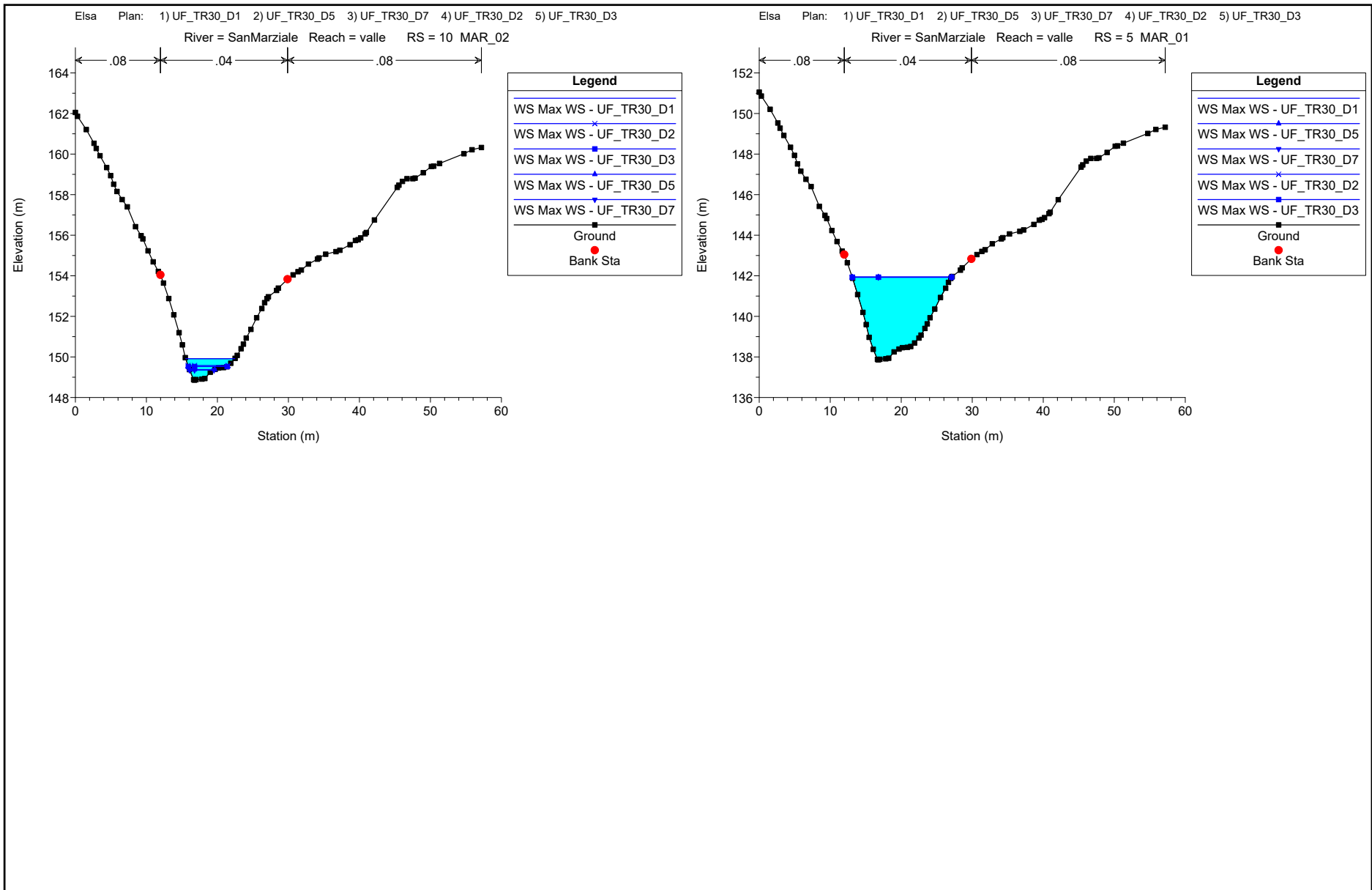












ALLEGATI

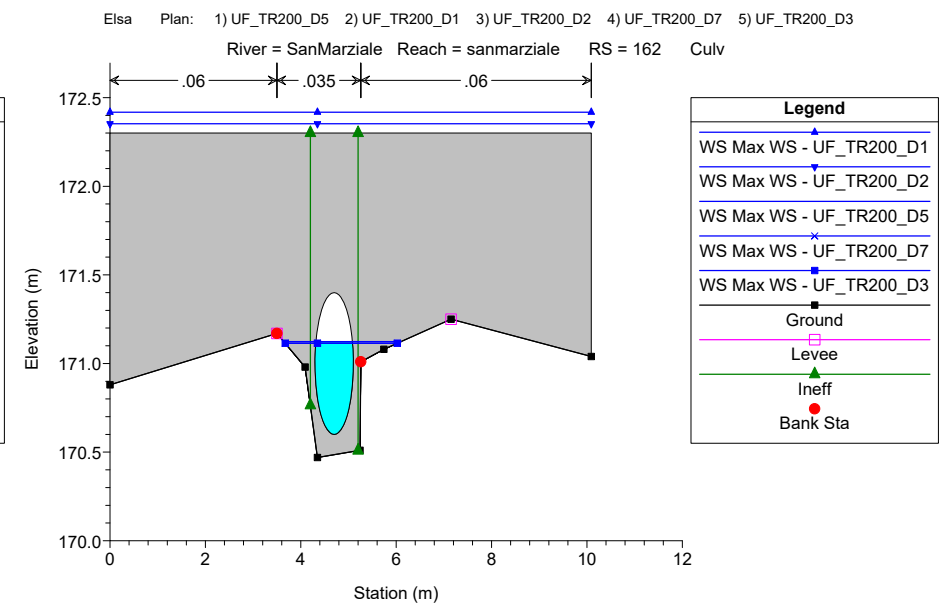
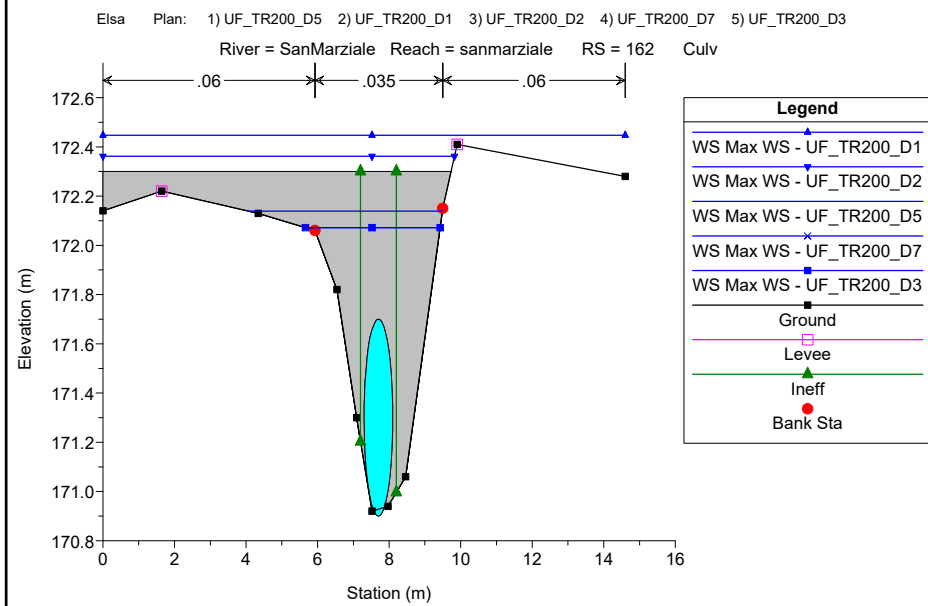
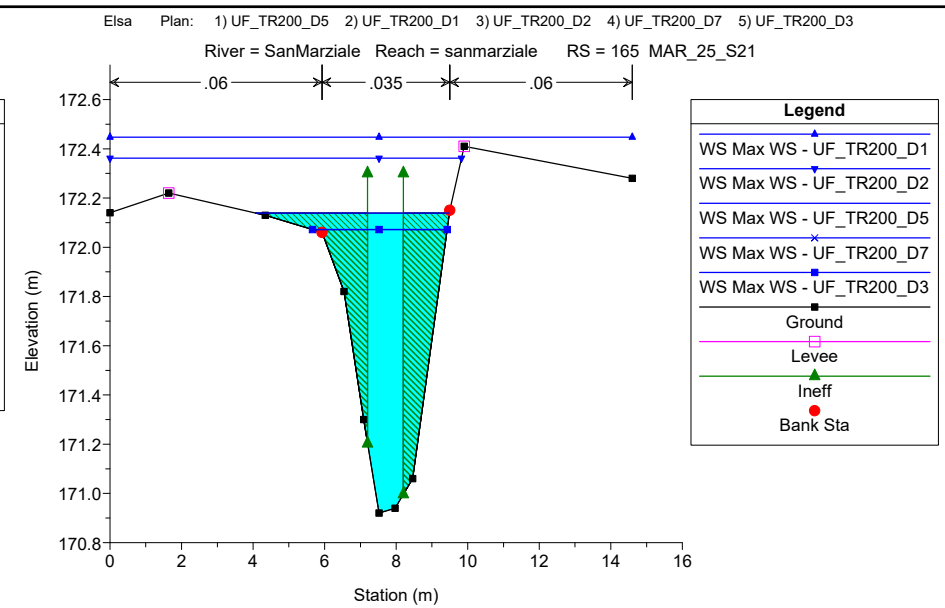
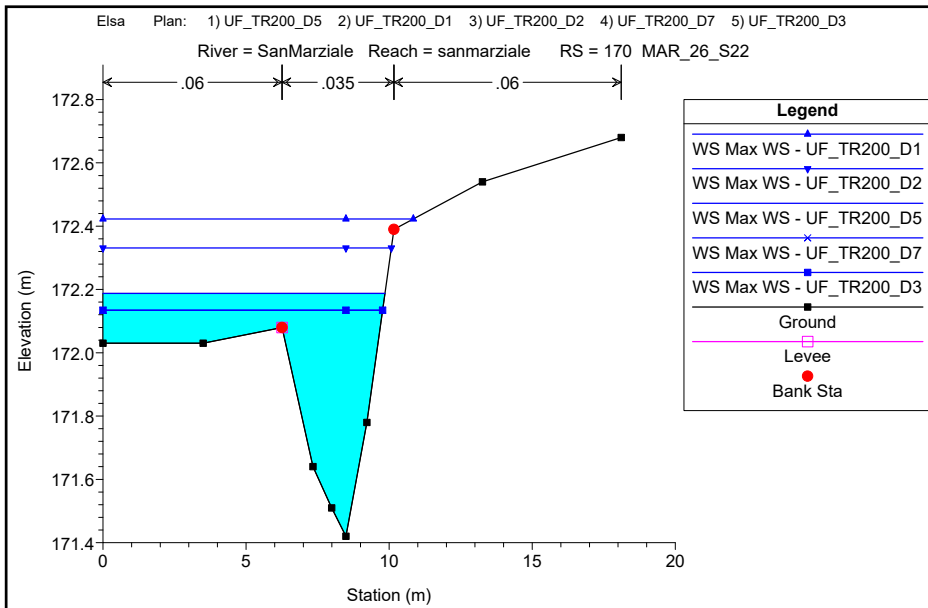
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

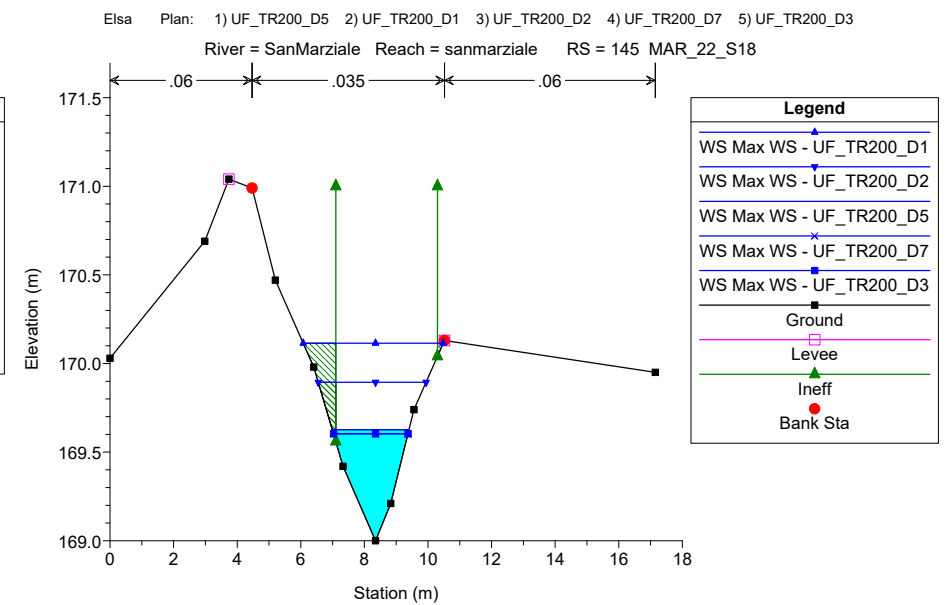
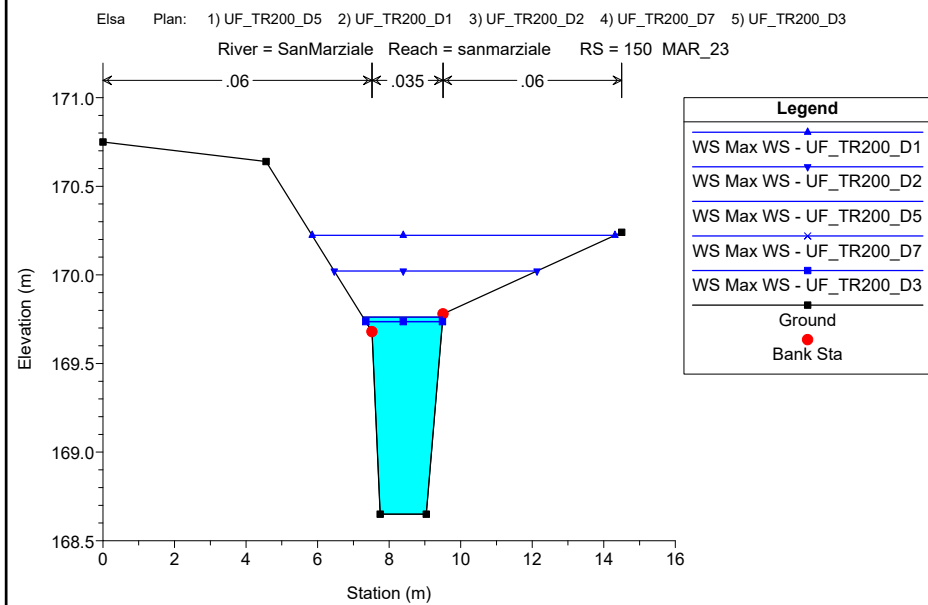
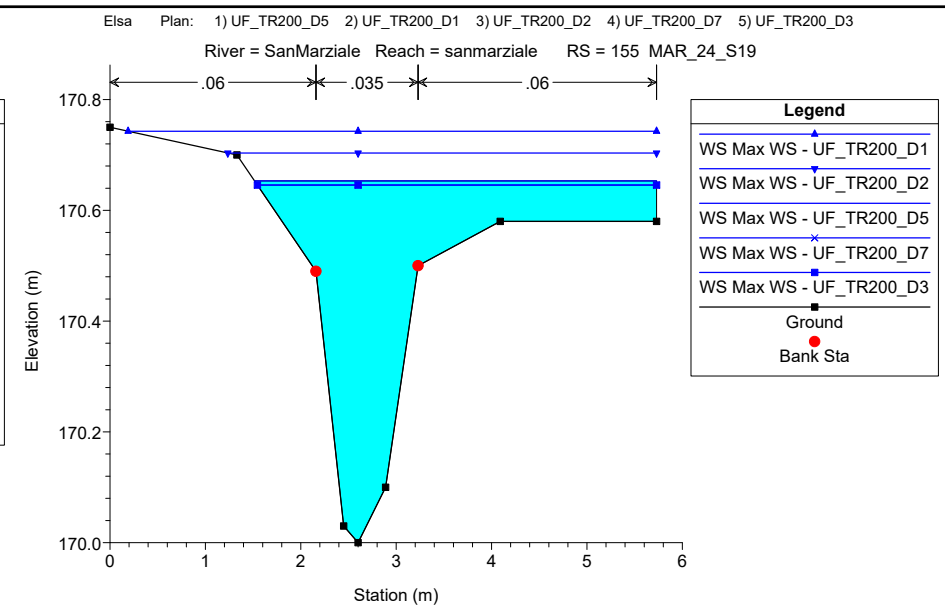
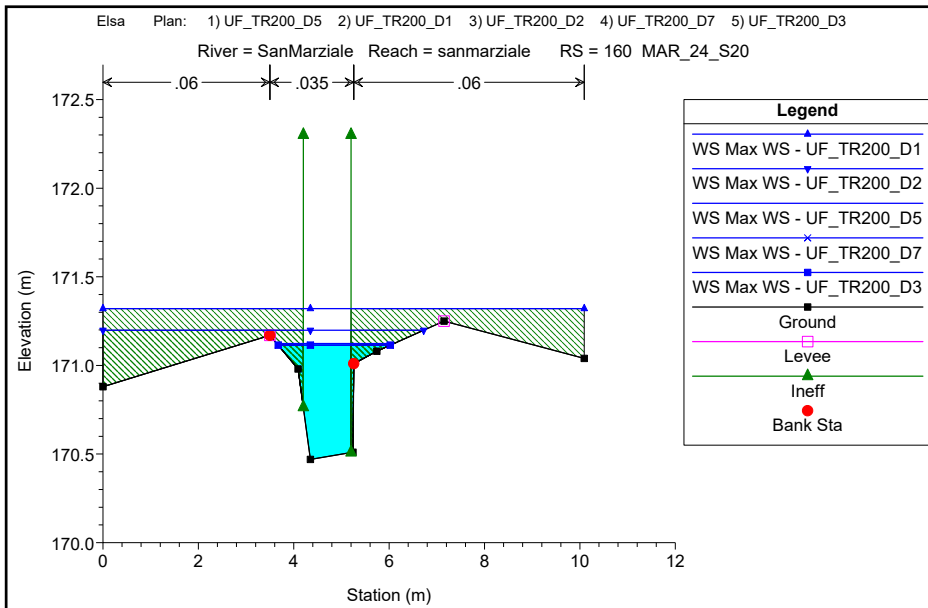
FOSSO DI SAN MARZIALE

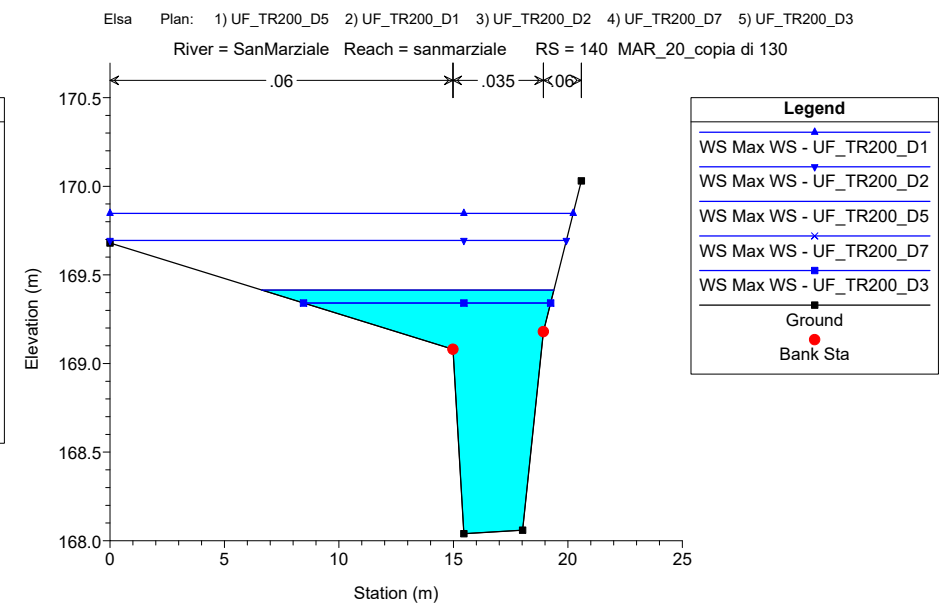
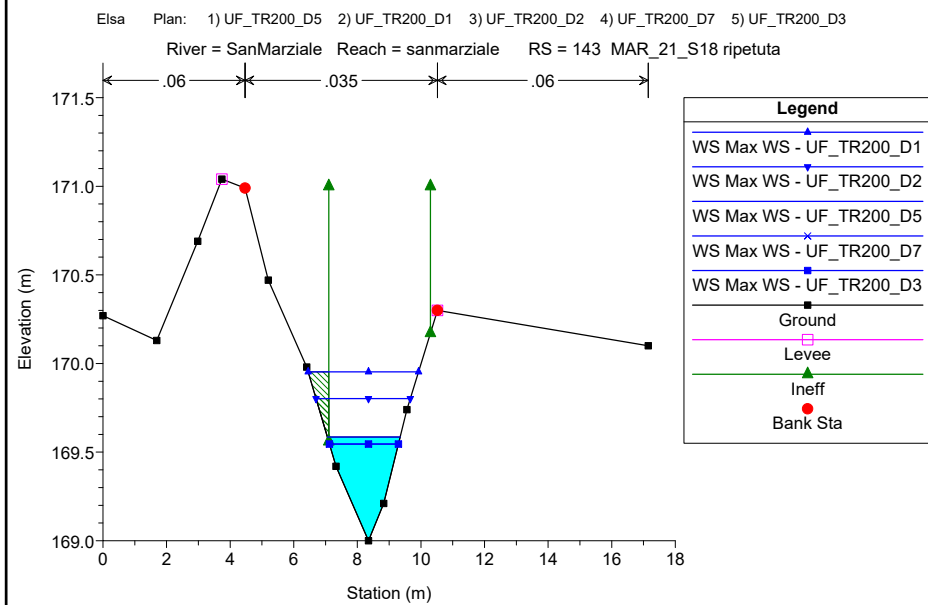
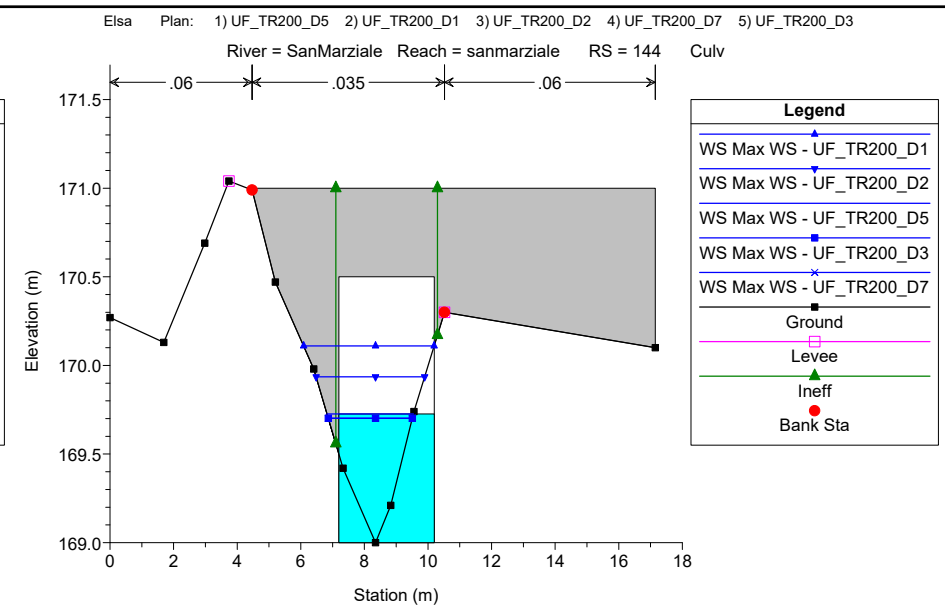
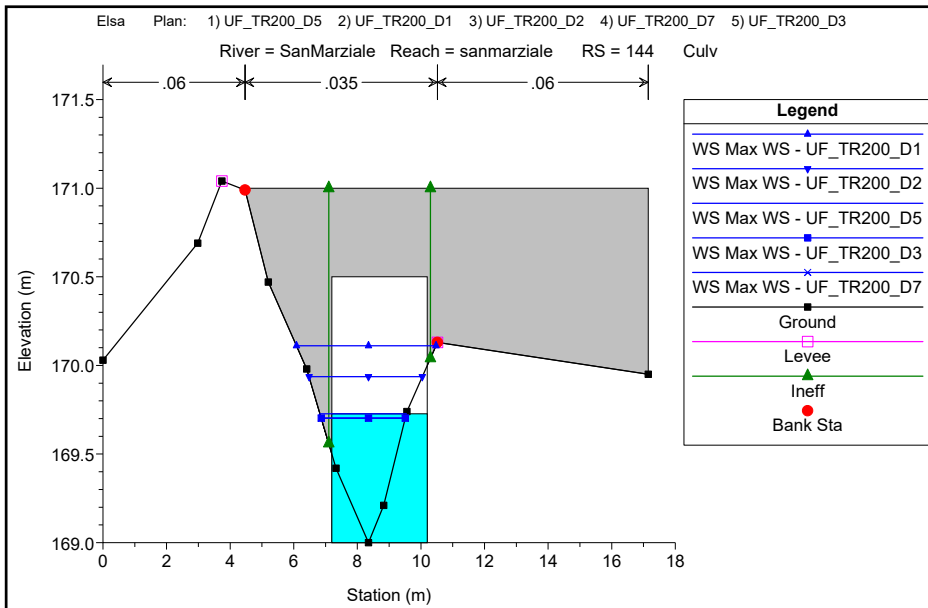
MODELLAZIONE PER TR=200 anni

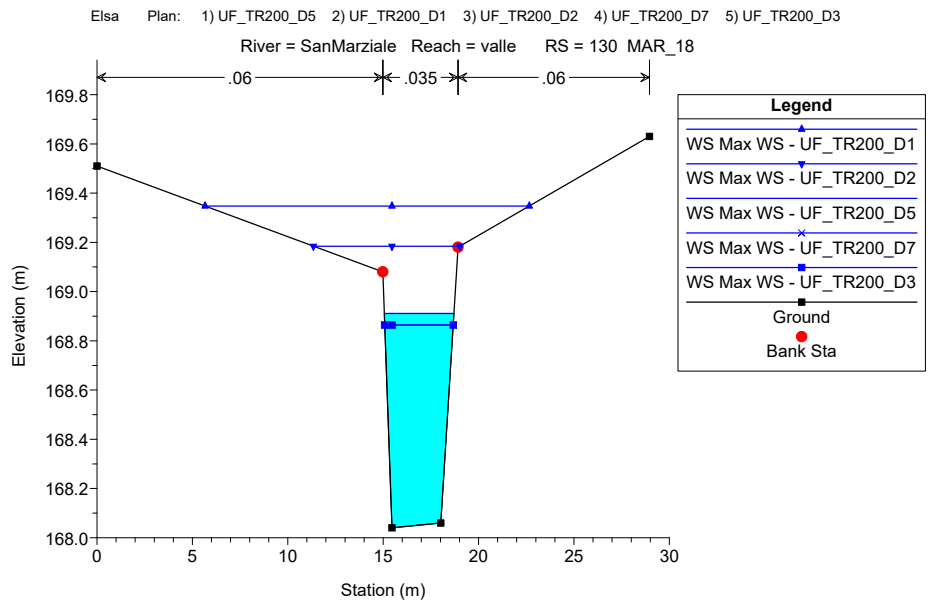
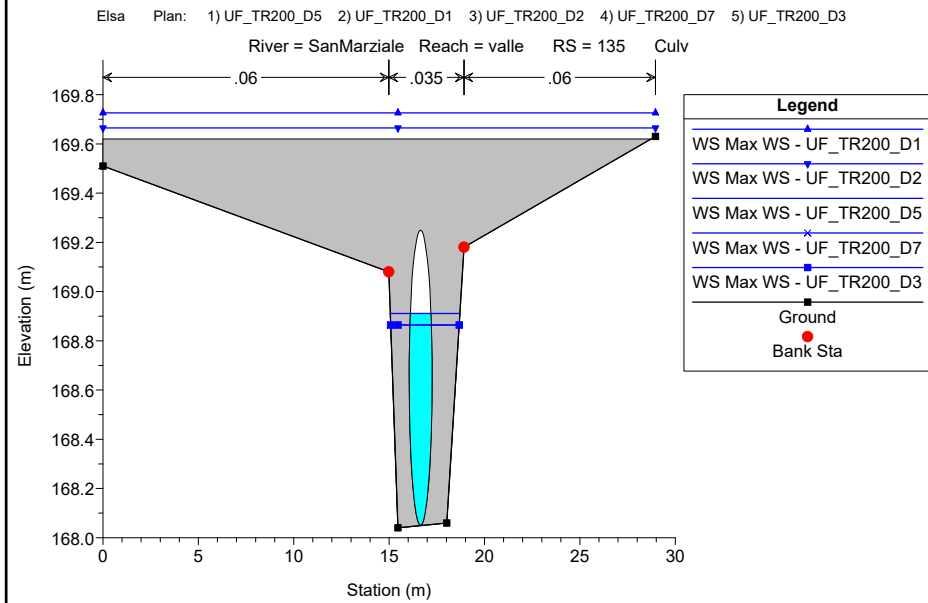
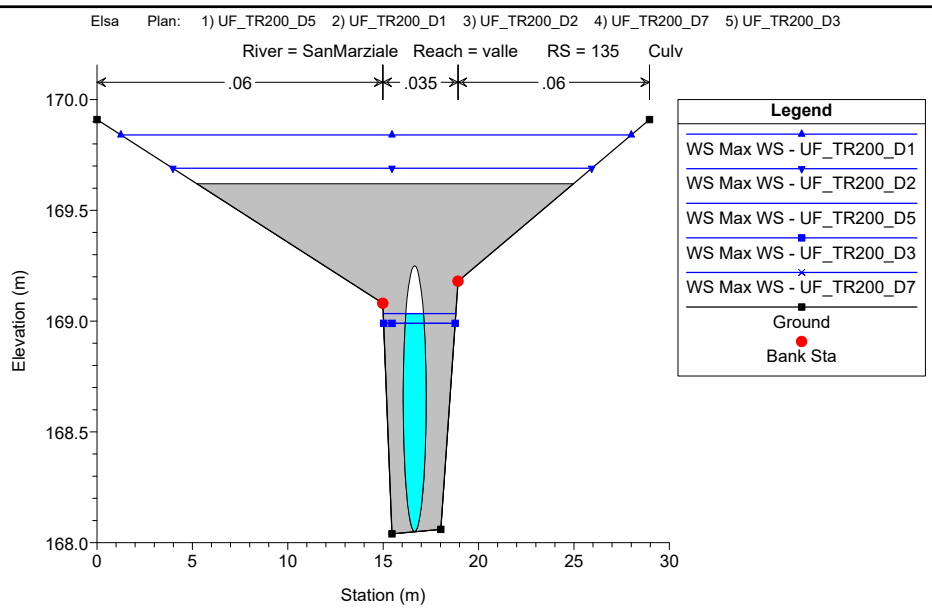
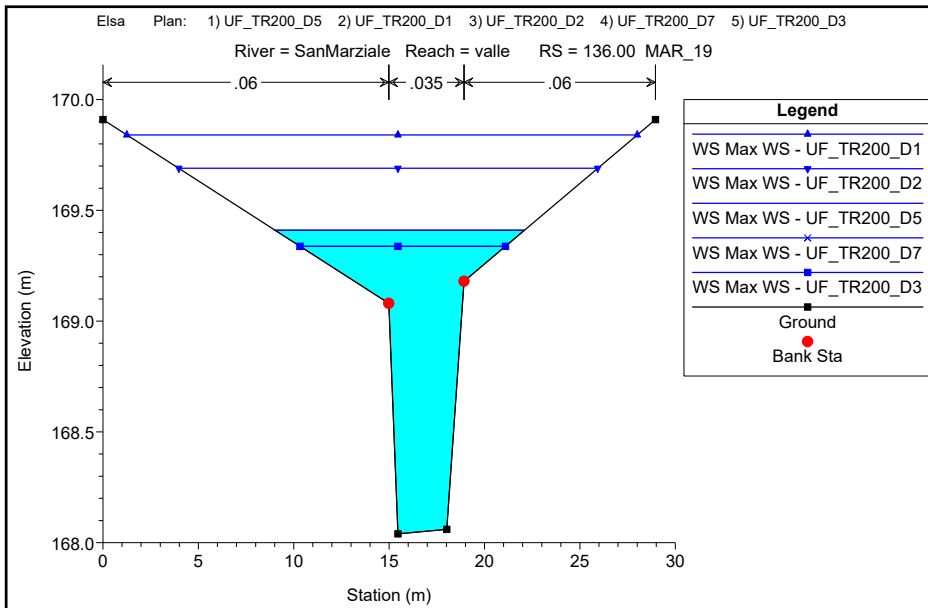
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

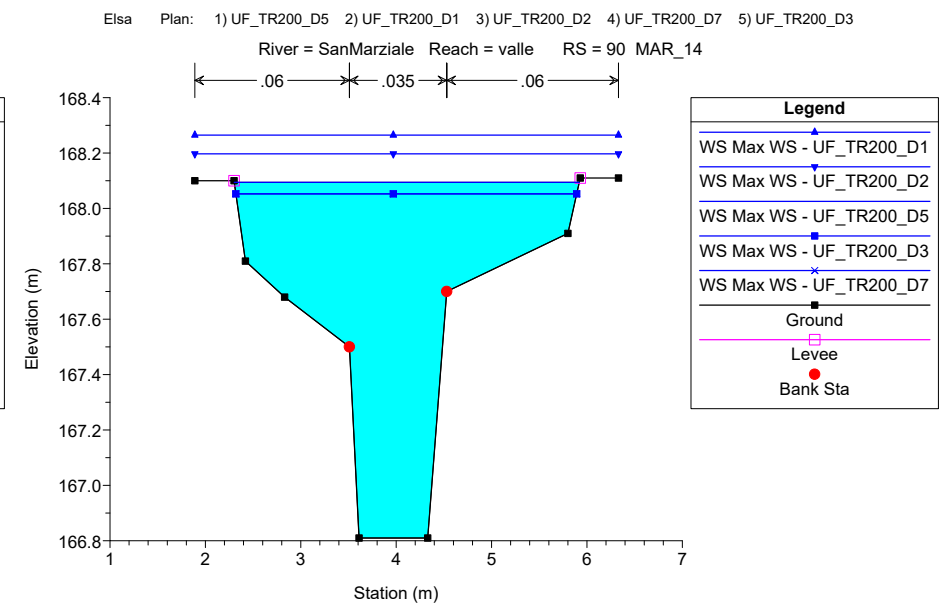
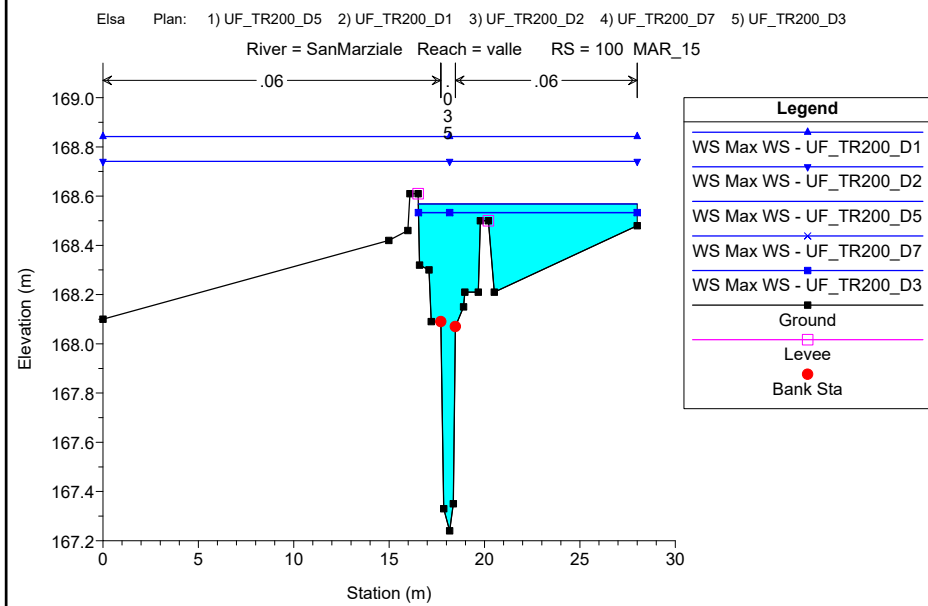
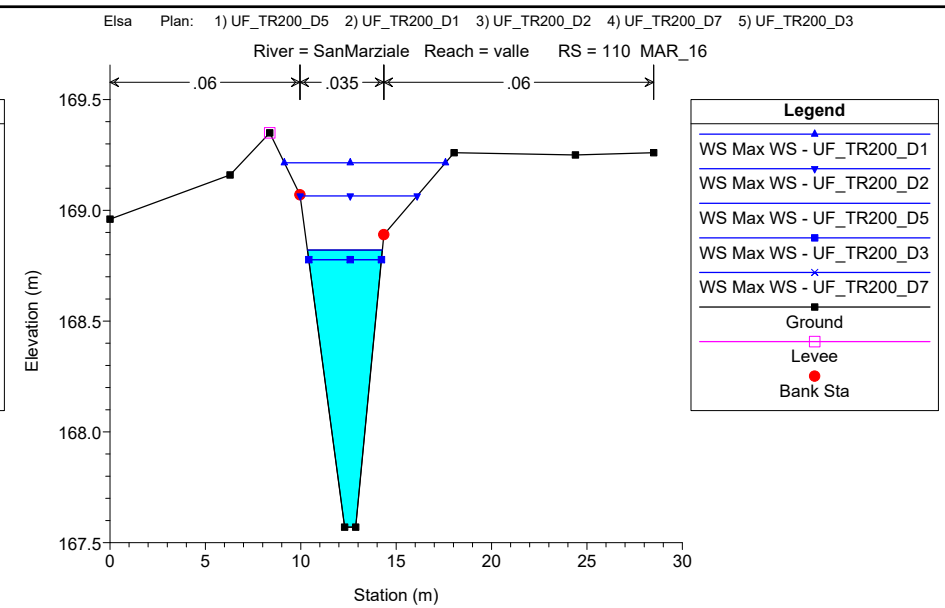
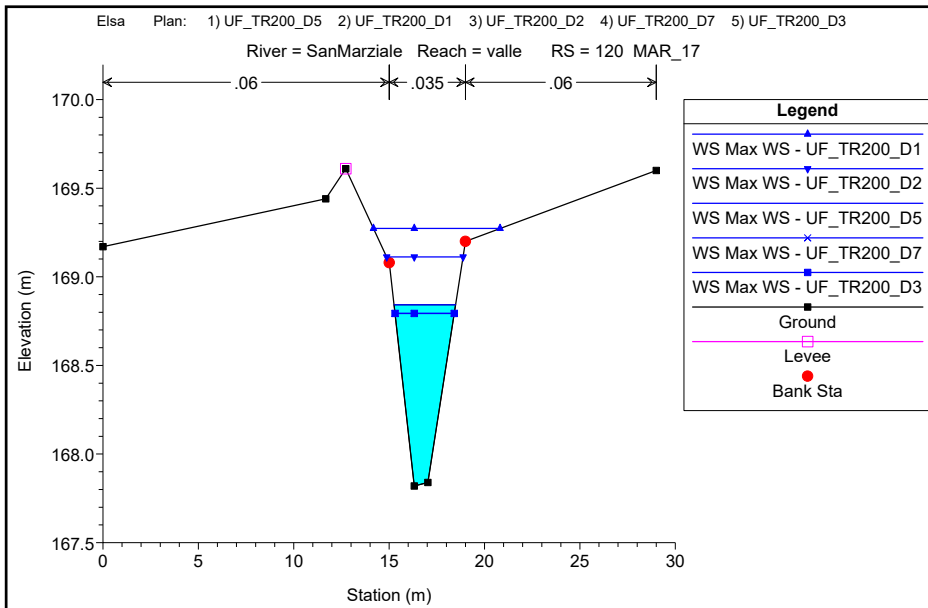
Sezioni Trasversali (da monte verso valle)

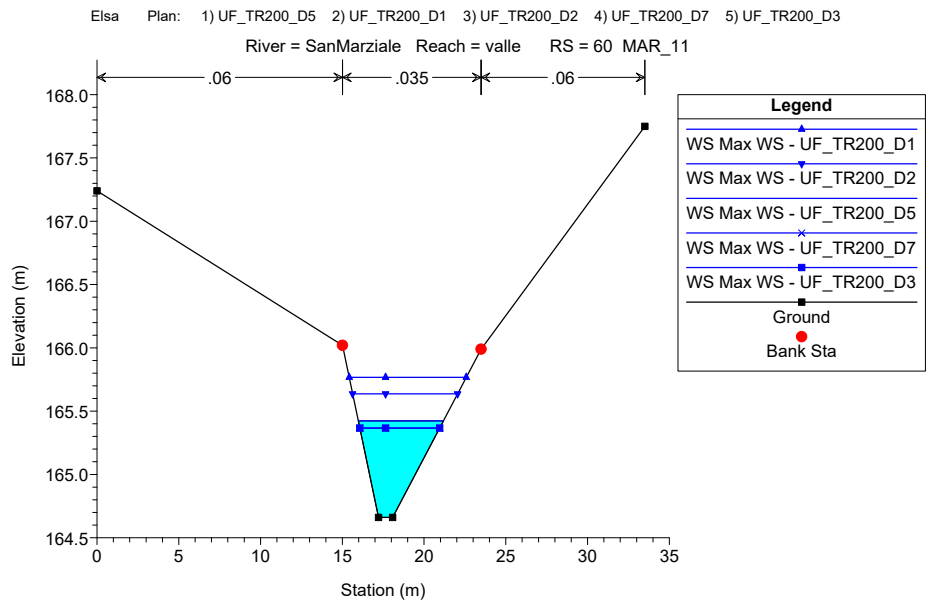
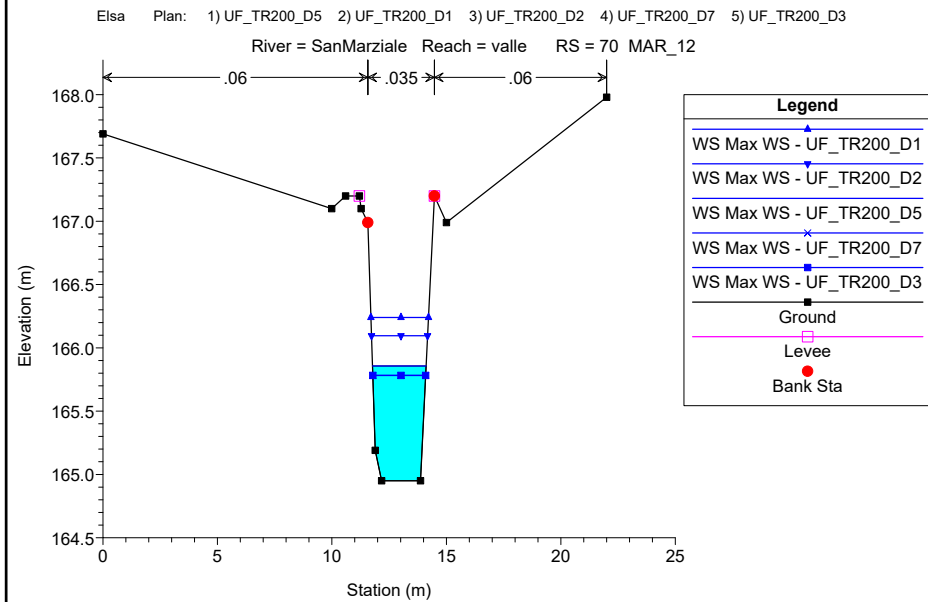
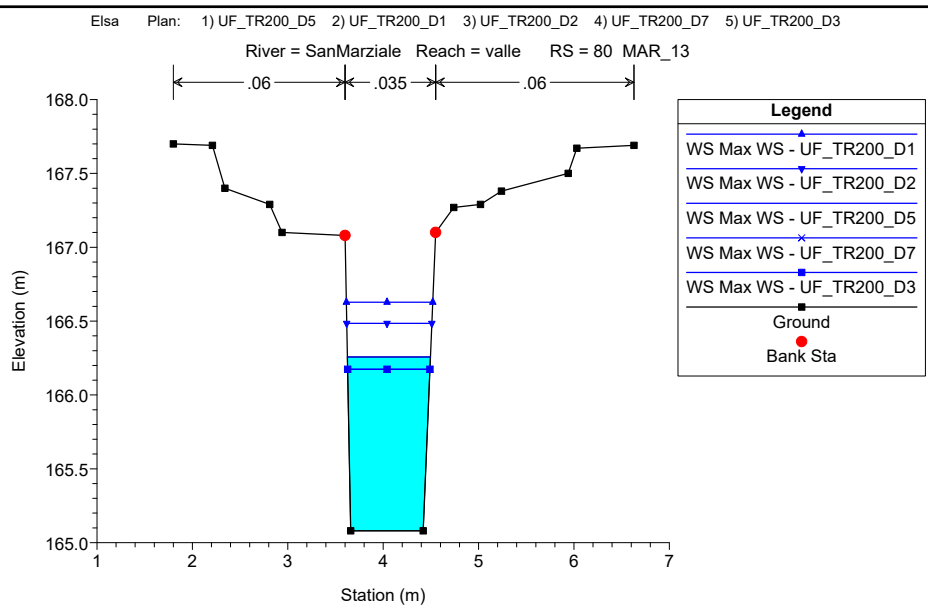
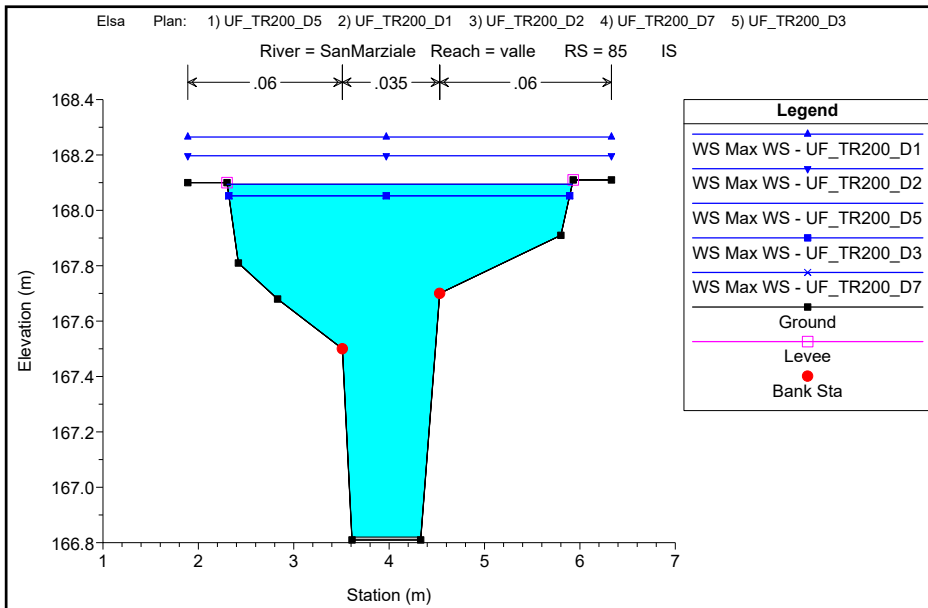


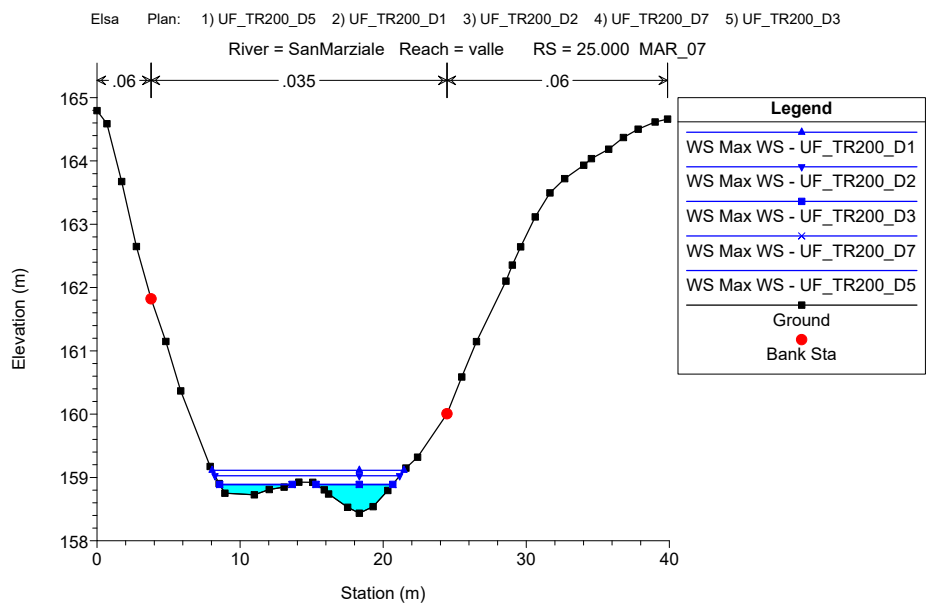
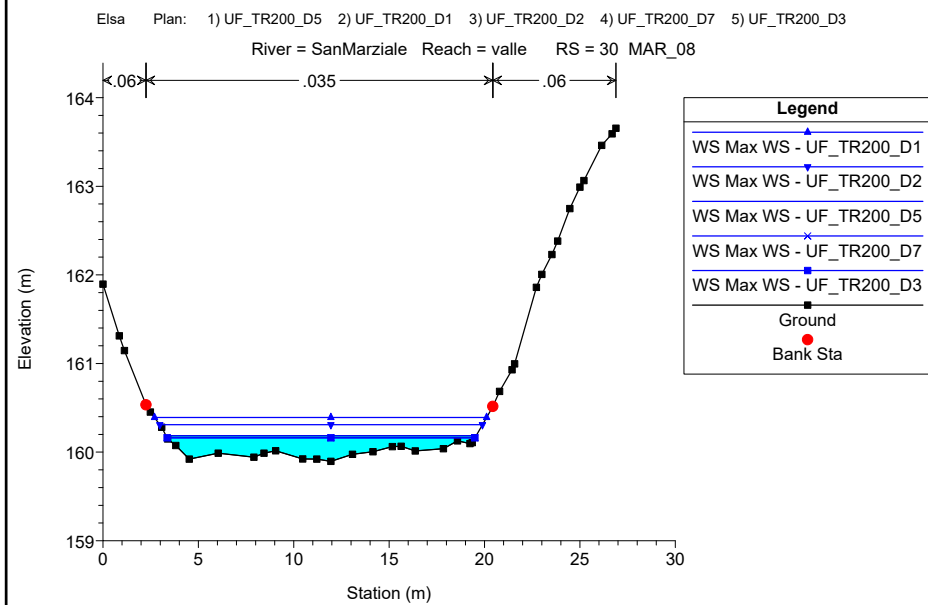
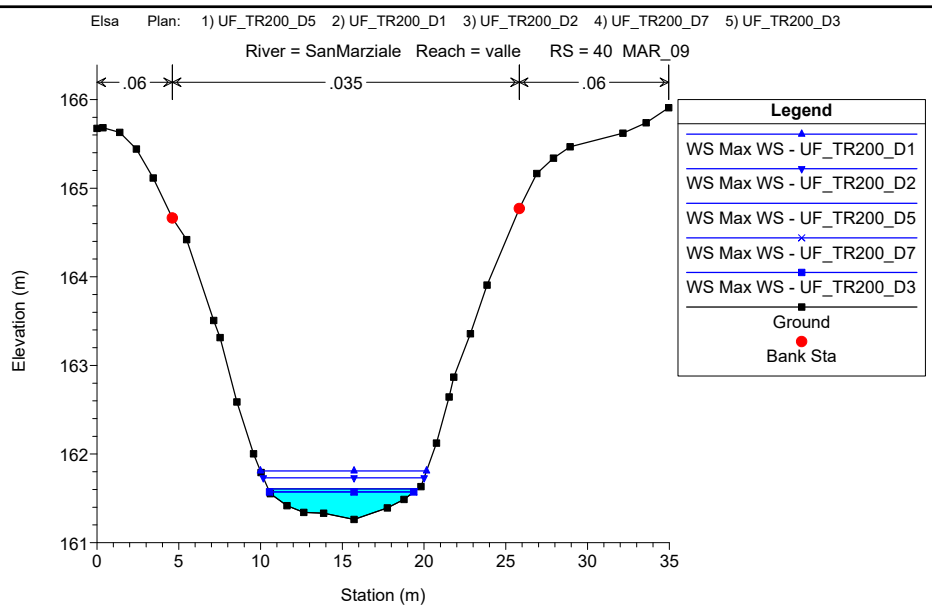
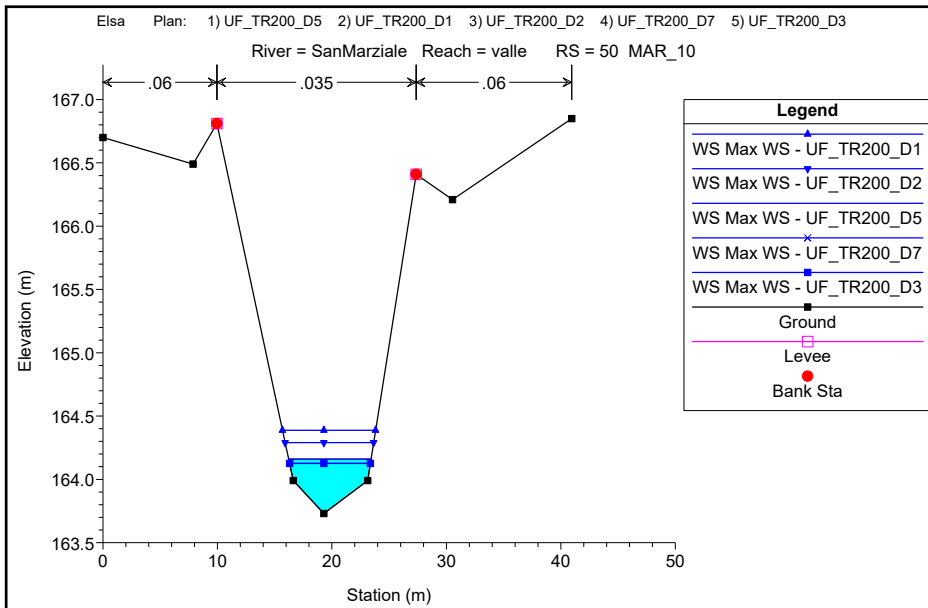


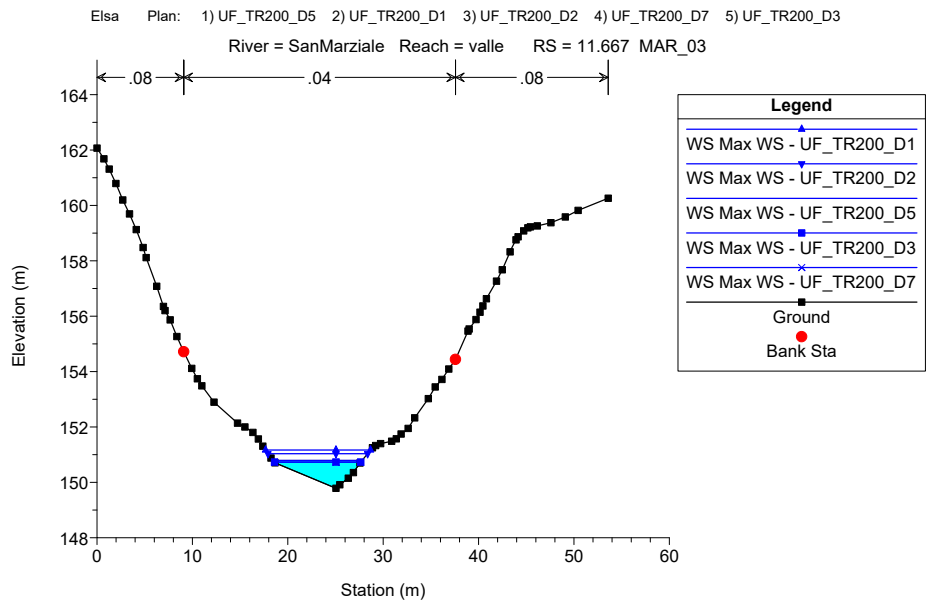
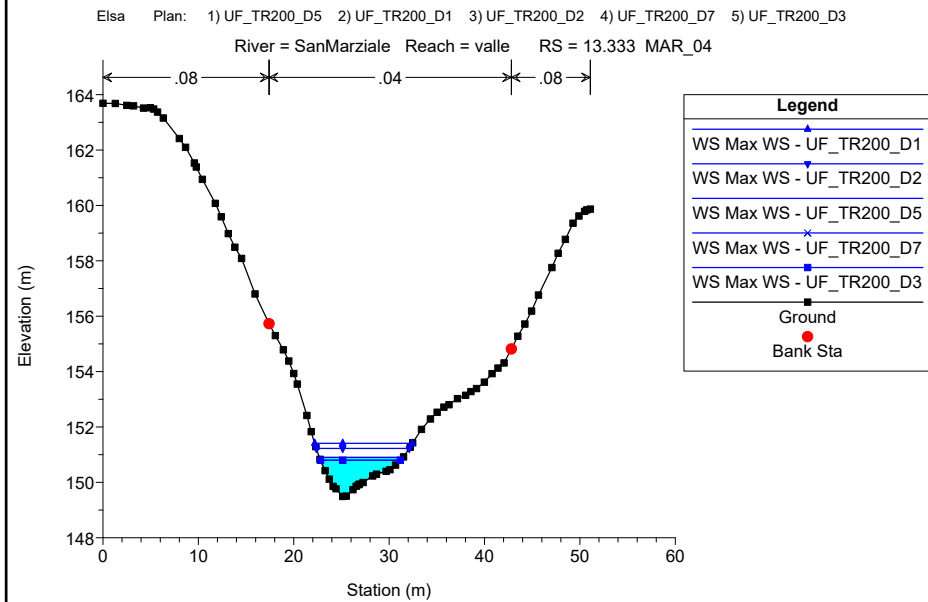
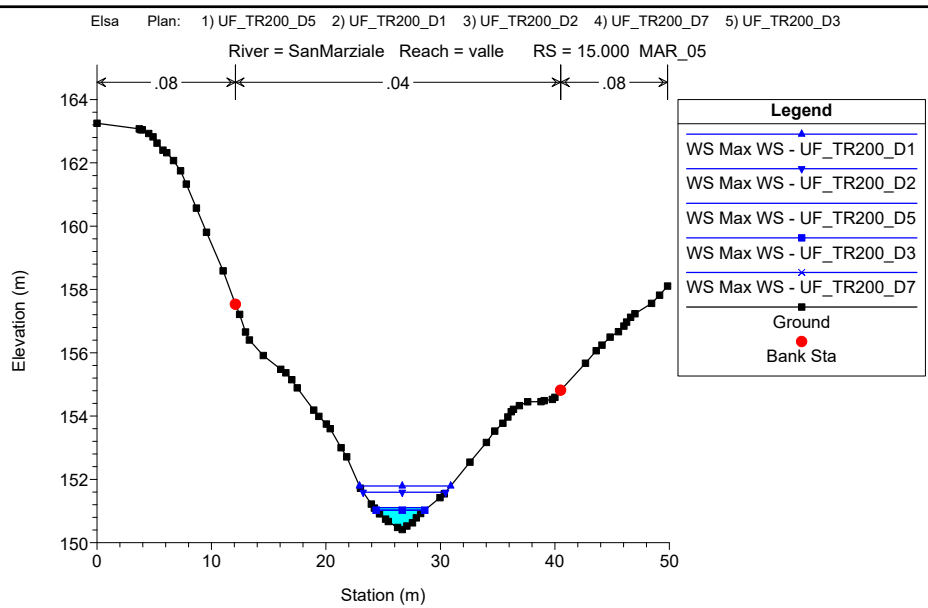
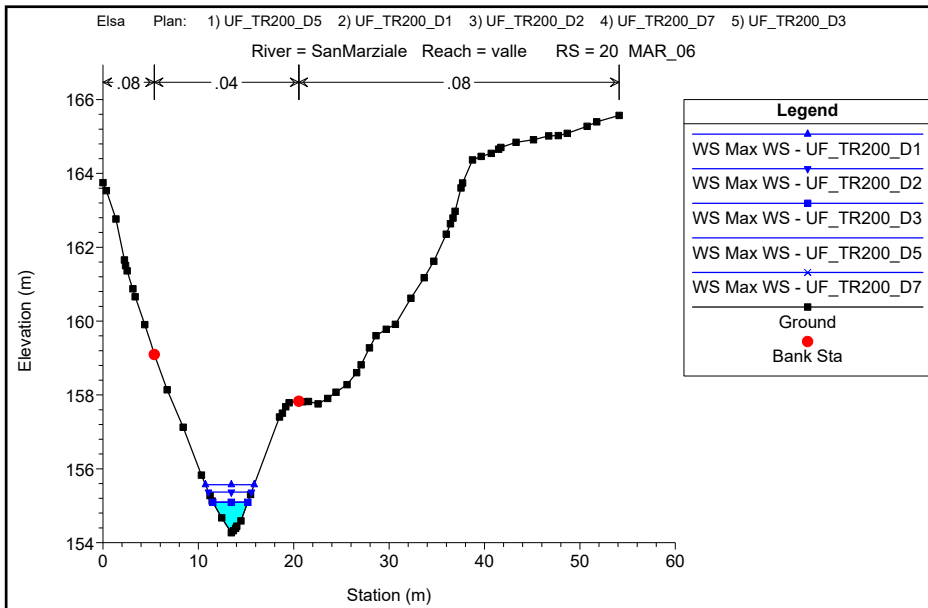


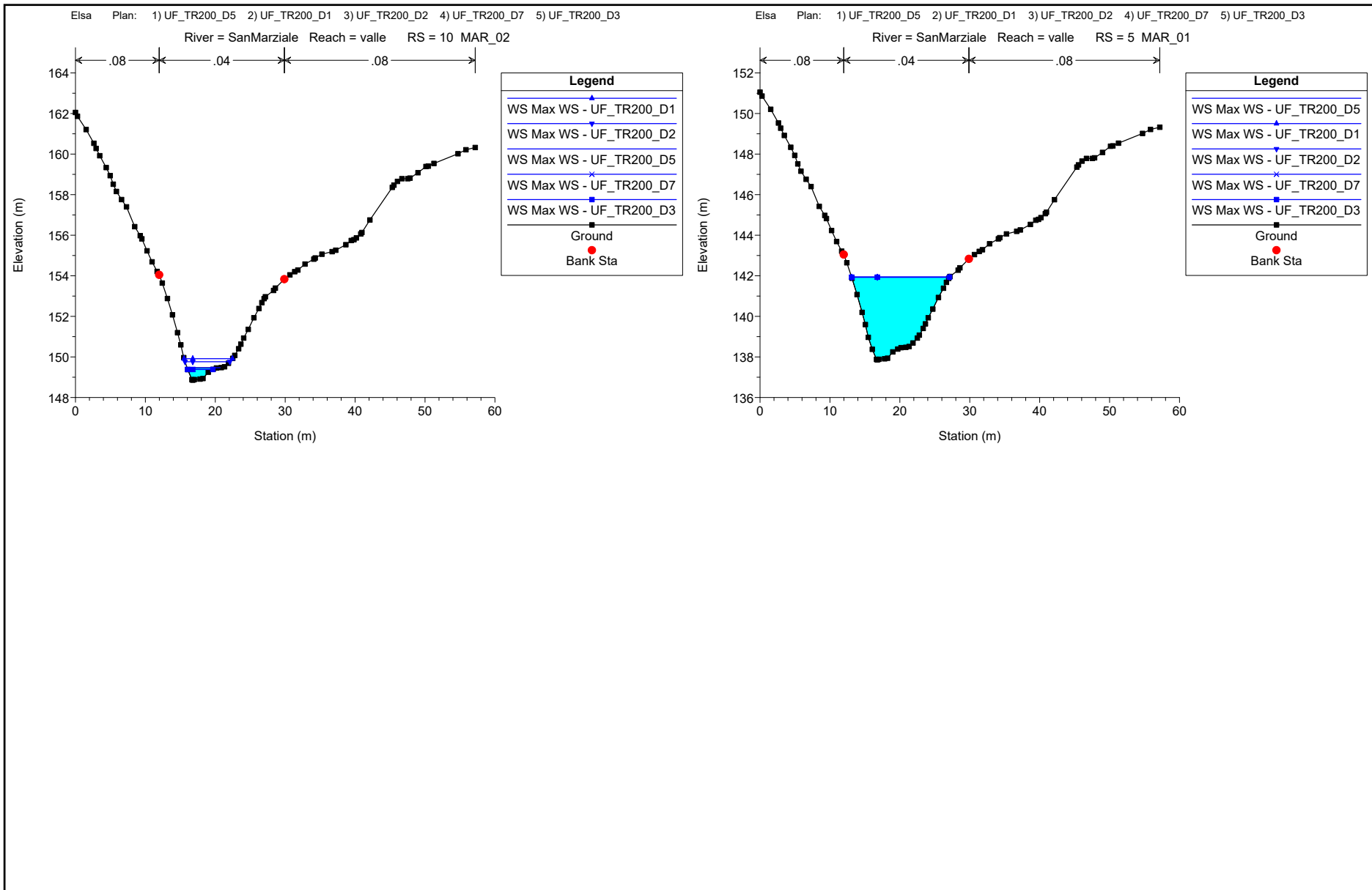












ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO DI SAN MARZIALE

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Ctl
valle	60	Max WS	UF_TR200_D2	8.53	164.66	165.64	165.65	165.93	0.016812		2.40		3.55	6.42	1.03
valle	60	Max WS	UF_TR200_D7	3.91	164.66	165.37	165.35	165.56	0.015849		1.93		2.03	4.88	0.96
valle	60	Max WS	UF_TR200_D3	3.91	164.66	165.37	165.35	165.56	0.015854		1.93		2.03	4.88	0.96
valle	59.99														
valle	59.98														
valle	50	Max WS	UF_TR200_D5	4.97	163.73	164.16	164.25	164.47	0.042027		2.48		2.01	7.20	1.50
valle	50	Max WS	UF_TR200_D1	13.11	163.73	164.39	164.58	165.01	0.043280		3.49		3.76	8.14	1.64
valle	50	Max WS	UF_TR200_D2	9.35	163.73	164.29	164.44	164.79	0.044095		3.13		2.98	7.73	1.61
valle	50	Max WS	UF_TR200_D7	4.06	163.73	164.13	164.20	164.40	0.041837		2.30		1.76	7.06	1.47
valle	50	Max WS	UF_TR200_D3	4.06	163.73	164.13	164.20	164.40	0.041839		2.30		1.76	7.06	1.47
valle	40	Max WS	UF_TR200_D5	5.11	161.26	161.61	161.70	161.92	0.056499		2.50		2.05	9.15	1.68
valle	40	Max WS	UF_TR200_D1	13.99	161.26	161.81	162.00	162.43	0.051849		3.48		4.02	10.16	1.77
valle	40	Max WS	UF_TR200_D2	9.86	161.26	161.73	161.87	162.20	0.049797		3.03		3.25	9.83	1.68
valle	40	Max WS	UF_TR200_D7	4.18	161.26	161.57	161.66	161.87	0.061642		2.40		1.74	8.82	1.72
valle	40	Max WS	UF_TR200_D3	4.18	161.26	161.57	161.66	161.87	0.061642		2.40		1.74	8.82	1.72
valle	30	Max WS	UF_TR200_D5	5.16	159.90	160.19	160.22	160.33	0.032673		1.69		3.05	16.26	1.24
valle	30	Max WS	UF_TR200_D1	14.64	159.90	160.39	160.43	160.65	0.023333		2.25		6.50	17.41	1.18
valle	30	Max WS	UF_TR200_D2	10.22	159.90	160.31	160.34	160.51	0.024242		2.00		5.12	16.92	1.16
valle	30	Max WS	UF_TR200_D7	4.26	159.90	160.16	160.19	160.29	0.035344		1.61		2.65	16.13	1.27
valle	30	Max WS	UF_TR200_D3	4.26	159.90	160.16	160.19	160.29	0.035354		1.61		2.65	16.13	1.27
valle	25.000	Max WS	UF_TR200_D5	6.63	158.44	158.89	159.05	159.52	0.148295		3.51		1.89	10.39	2.63
valle	25.000	Max WS	UF_TR200_D1	16.85	158.44	159.11	159.31	159.77	0.064778		3.58		4.70	13.41	1.93
valle	25.000	Max WS	UF_TR200_D2	11.46	158.44	159.03	159.19	159.55	0.071788		3.22		3.56	12.90	1.96
valle	25.000	Max WS	UF_TR200_D7	6.61	158.44	158.89	159.05	159.51	0.146592		3.49		1.89	10.40	2.61
valle	25.000	Max WS	UF_TR200_D3	6.71	158.44	158.89	159.05	159.51	0.145911		3.50		1.92	10.46	2.61
valle	20	Max WS	UF_TR200_D5	6.43	154.27	155.09	155.33	155.84	0.075490		3.82		1.68	3.67	1.80
valle	20	Max WS	UF_TR200_D1	17.95	154.27	155.57	155.94	156.72	0.063452		4.74		3.79	5.12	1.76
valle	20	Max WS	UF_TR200_D2	12.09	154.27	155.37	155.67	156.31	0.064570		4.30		2.81	4.50	1.74
valle	20	Max WS	UF_TR200_D7	6.39	154.27	155.09	155.32	155.84	0.075643		3.82		1.67	3.66	1.80
valle	20	Max WS	UF_TR200_D3	6.46	154.27	155.09	155.33	155.84	0.075527		3.83		1.69	3.67	1.80
valle	15.000	Max WS	UF_TR200_D5	6.23	150.42	151.11	151.30	151.72	0.073241		3.46		1.80	4.71	1.79
valle	15.000	Max WS	UF_TR200_D1	21.27	150.42	151.79	151.92	152.39	0.028133		3.41		6.23	7.97	1.23
valle	15.000	Max WS	UF_TR200_D2	14.39	150.42	151.60	151.69	152.07	0.028016		3.05		4.73	7.20	1.20
valle	15.000	Max WS	UF_TR200_D7	5.88	150.42	151.03	151.28	151.88	0.120405		4.10		1.44	4.23	2.25
valle	15.000	Max WS	UF_TR200_D3	5.93	150.42	151.03	151.28	151.88	0.119620		4.10		1.45	4.25	2.24
valle	13.333	Max WS	UF_TR200_D5	6.04	149.49	150.90		150.94	0.002122		0.91		6.61	8.76	0.34
valle	13.333	Max WS	UF_TR200_D1	22.63	149.49	151.41		151.61	0.006021		1.97		11.47	10.24	0.60
valle	13.333	Max WS	UF_TR200_D2	15.39	149.49	151.22		151.35	0.004646		1.60		9.61	9.74	0.52
valle	13.333	Max WS	UF_TR200_D7	4.64	149.49	150.80		150.83	0.001861		0.81		5.76	8.37	0.31
valle	13.333	Max WS	UF_TR200_D3	4.64	149.49	150.80		150.83	0.001861		0.81		5.76	8.37	0.31
valle	11.667	Max WS	UF_TR200_D5	6.09	149.78	150.79		150.87	0.005581		1.21		5.02	9.33	0.53
valle	11.667	Max WS	UF_TR200_D1	22.90	149.78	151.17		151.51	0.015128		2.59		8.84	11.02	0.92
valle	11.667	Max WS	UF_TR200_D2	15.56	149.78	151.04		151.26	0.011516		2.09		7.44	10.44	0.79
valle	11.667	Max WS	UF_TR200_D7	4.68	149.78	150.73		150.79	0.004679		1.05		4.46	9.03	0.48
valle	11.667	Max WS	UF_TR200_D3	4.75	149.78	150.73		150.79	0.004750		1.06		4.48	9.04	0.48
valle	10	Max WS	UF_TR200_D5	6.17	148.86	149.47	149.71	150.29	0.126196		4.01		1.54	4.77	2.25
valle	10	Max WS	UF_TR200_D1	22.90	148.86	149.91	150.35	151.40	0.099580		5.40		4.24	6.92	2.20
valle	10	Max WS	UF_TR200_D2	15.56	148.86	149.77	150.11	150.93	0.099487		4.79		3.25	6.40	2.14
valle	10	Max WS	UF_TR200_D7	4.69	148.86	149.38	149.62	150.18	0.121865		3.96		1.18	3.61	2.21
valle	10	Max WS	UF_TR200_D3	4.69	148.86	149.38	149.62	150.18	0.121864		3.96		1.18	3.61	2.21
valle	5	Max WS	UF_TR200_D5	1.13	137.86	141.93	138.23	141.93	0.000001		0.03		35.68	14.00	0.01
valle	5	Max WS	UF_TR200_D1	1.13	137.86	141.93	138.23	141.93	0.000001		0.03		35.68	14.00	0.01
valle	5	Max WS	UF_TR200_D2	1.13	137.86	141.93	138.23	141.93	0.000001		0.03		35.68	14.00	0.01
valle	5	Max WS	UF_TR200_D7	1.13	137.86	141.93	138.23	141.93	0.000001		0.03		35.68	14.00	0.01
valle	5	Max WS	UF_TR200_D3	1.13	137.86	141.93	138.23	141.93	0.000001		0.03		35.68	14.00	0.01

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SCARNA

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SCARNA

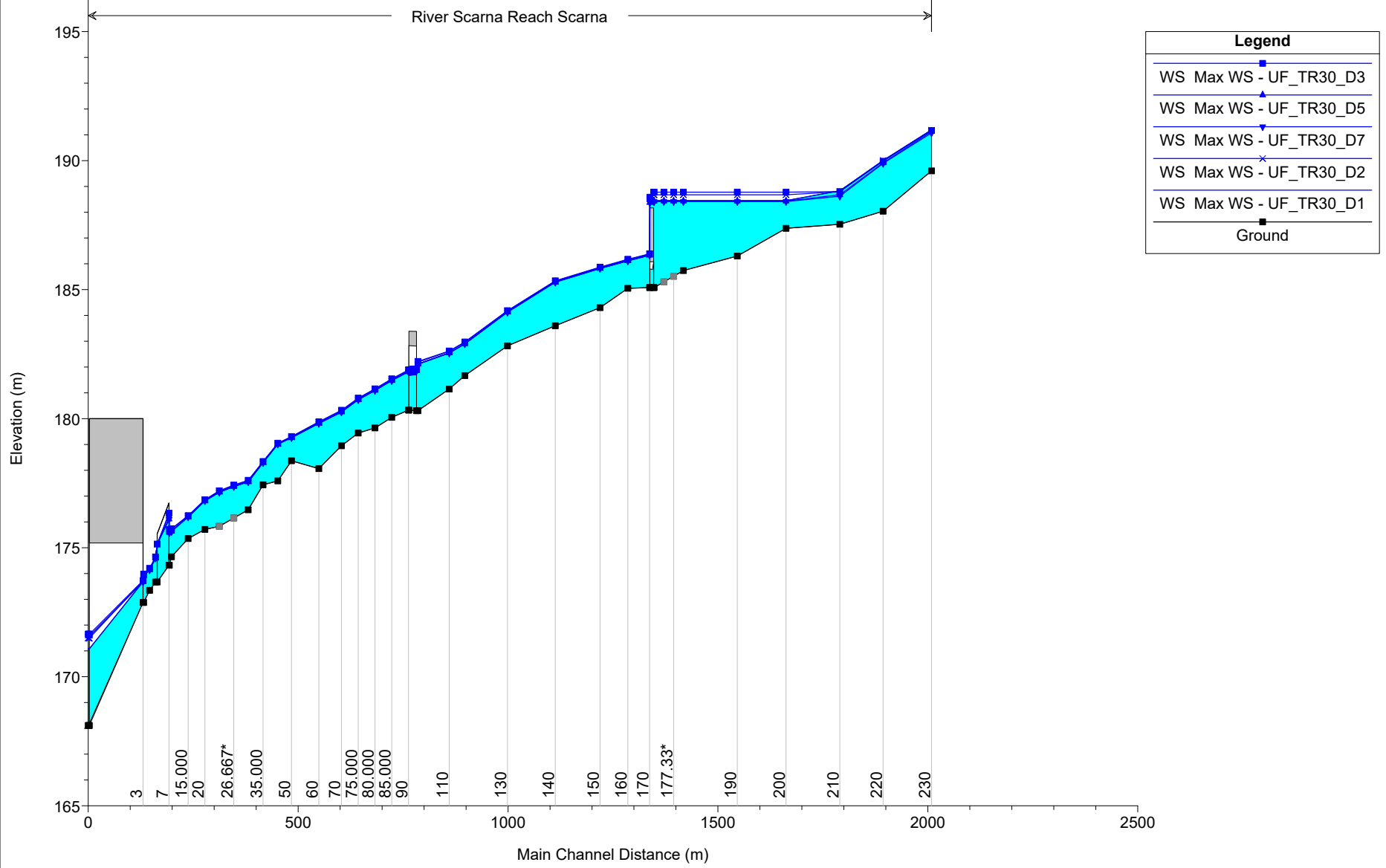
MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Elsa Plan: 1) UF_TR30_D1 2) UF_TR30_D5 3) UF_TR30_D7 4) UF_TR30_D2 5) UF_TR30_D3

River Scarna Reach Scarna



ALLEGATI

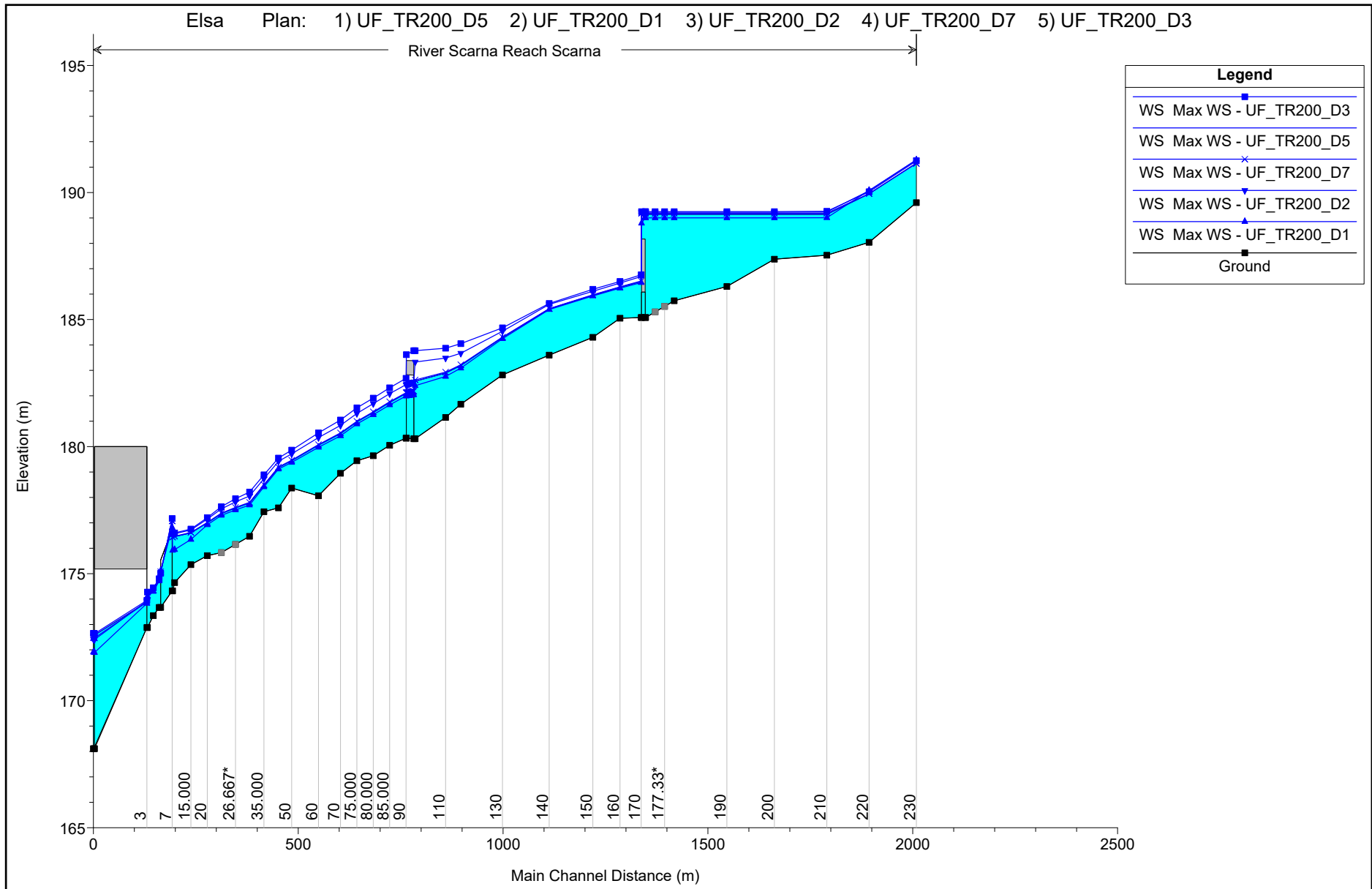
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SCARNA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

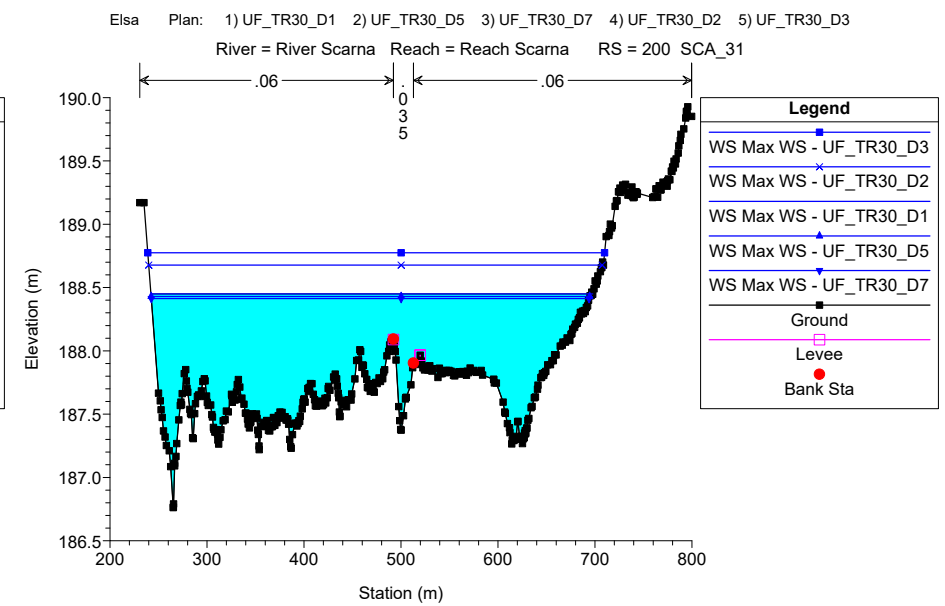
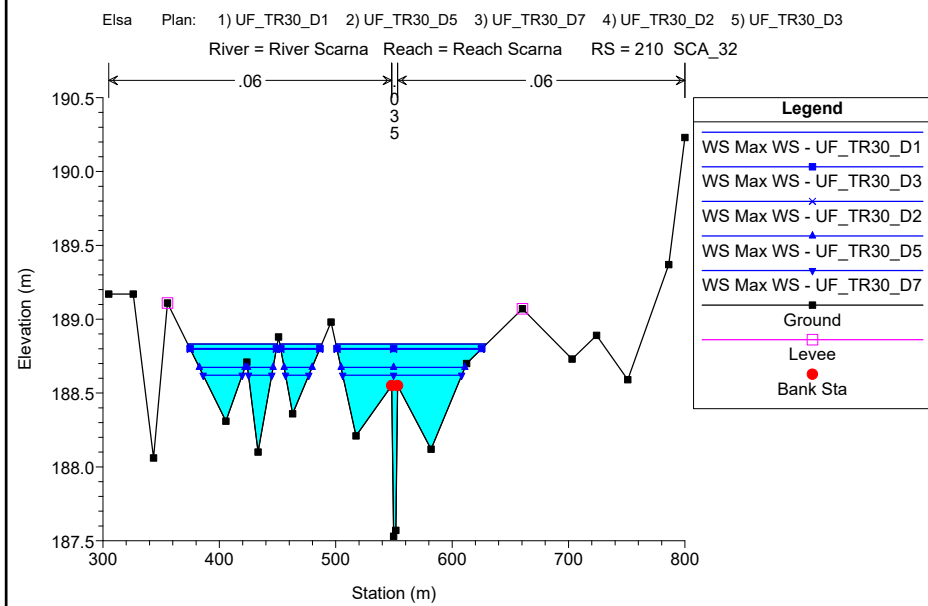
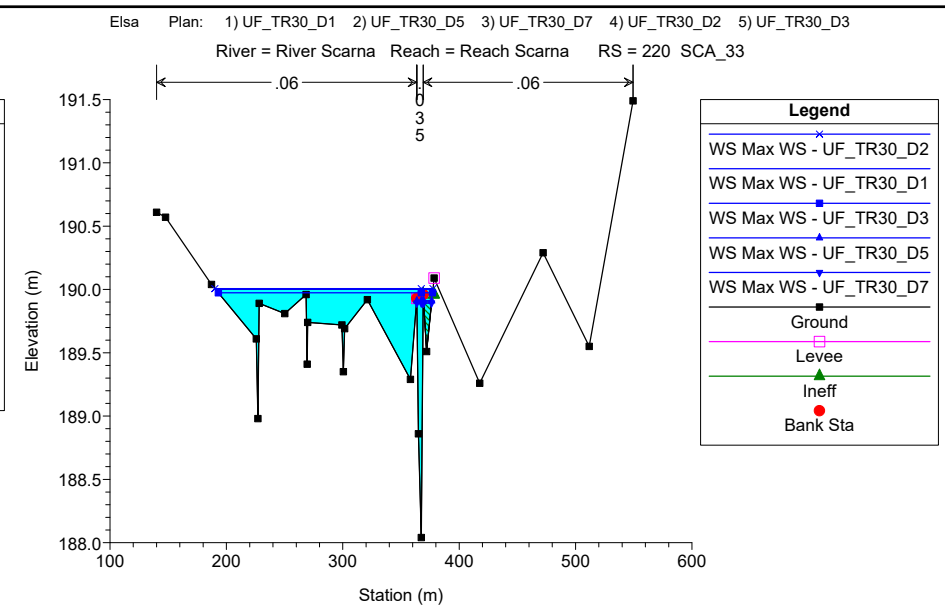
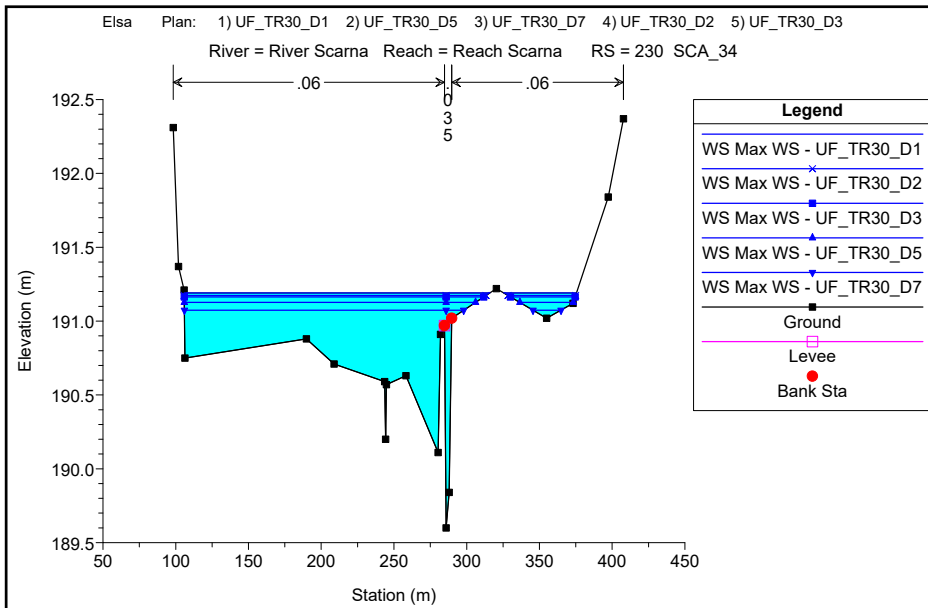
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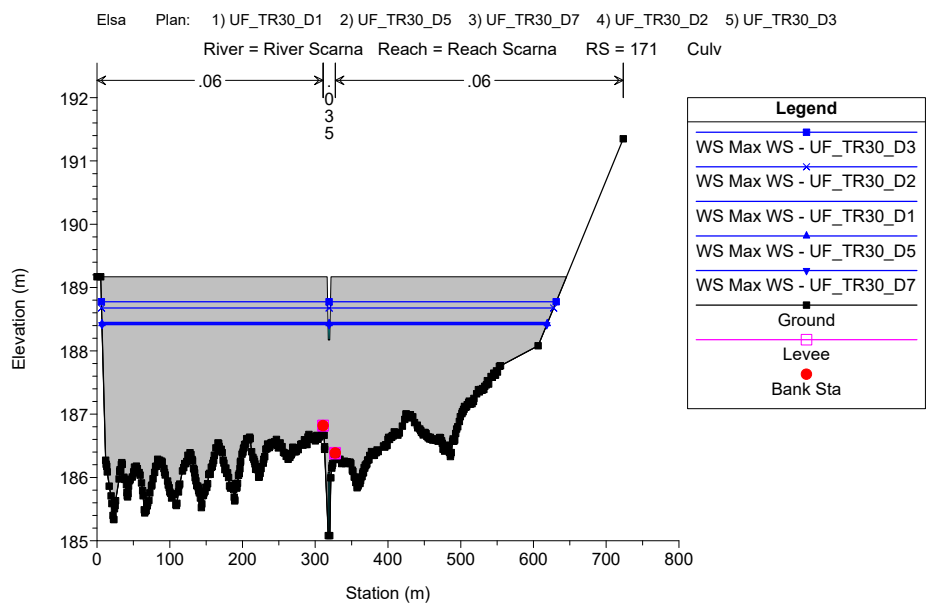
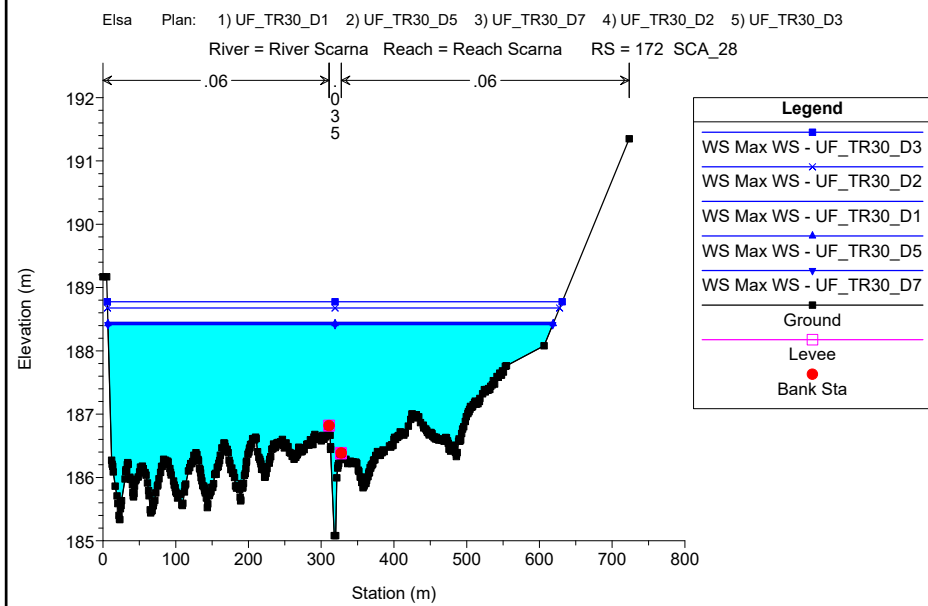
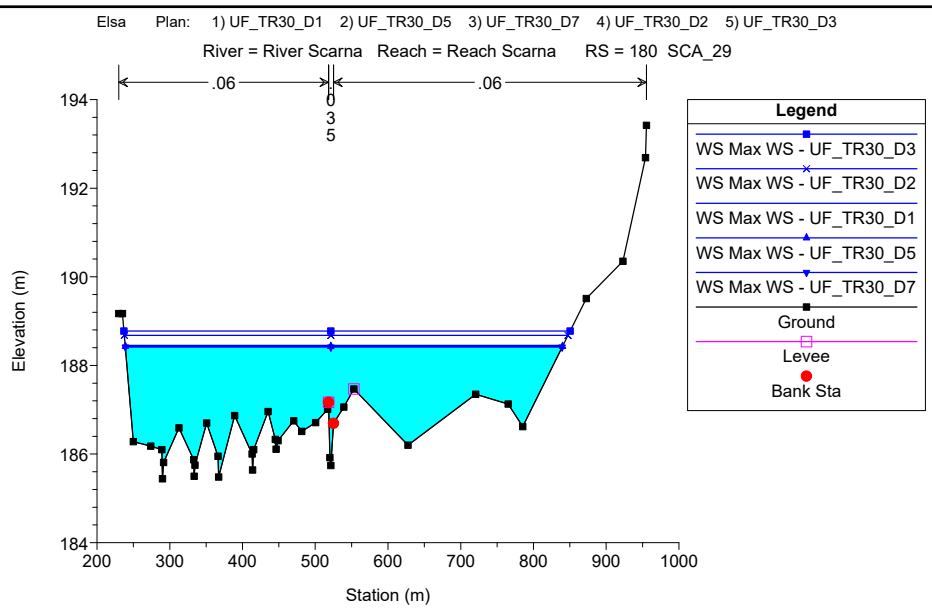
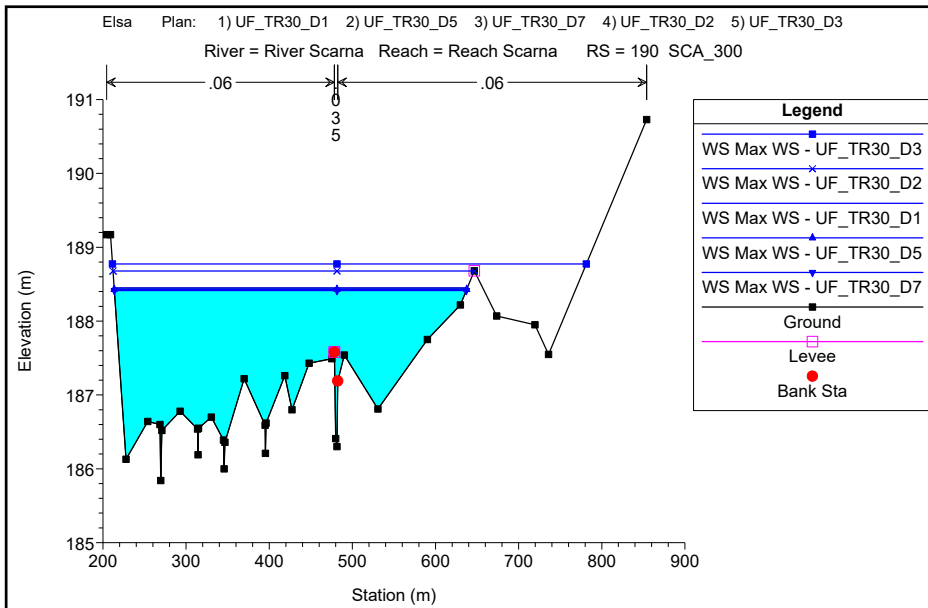
TORRENTE SCARNA

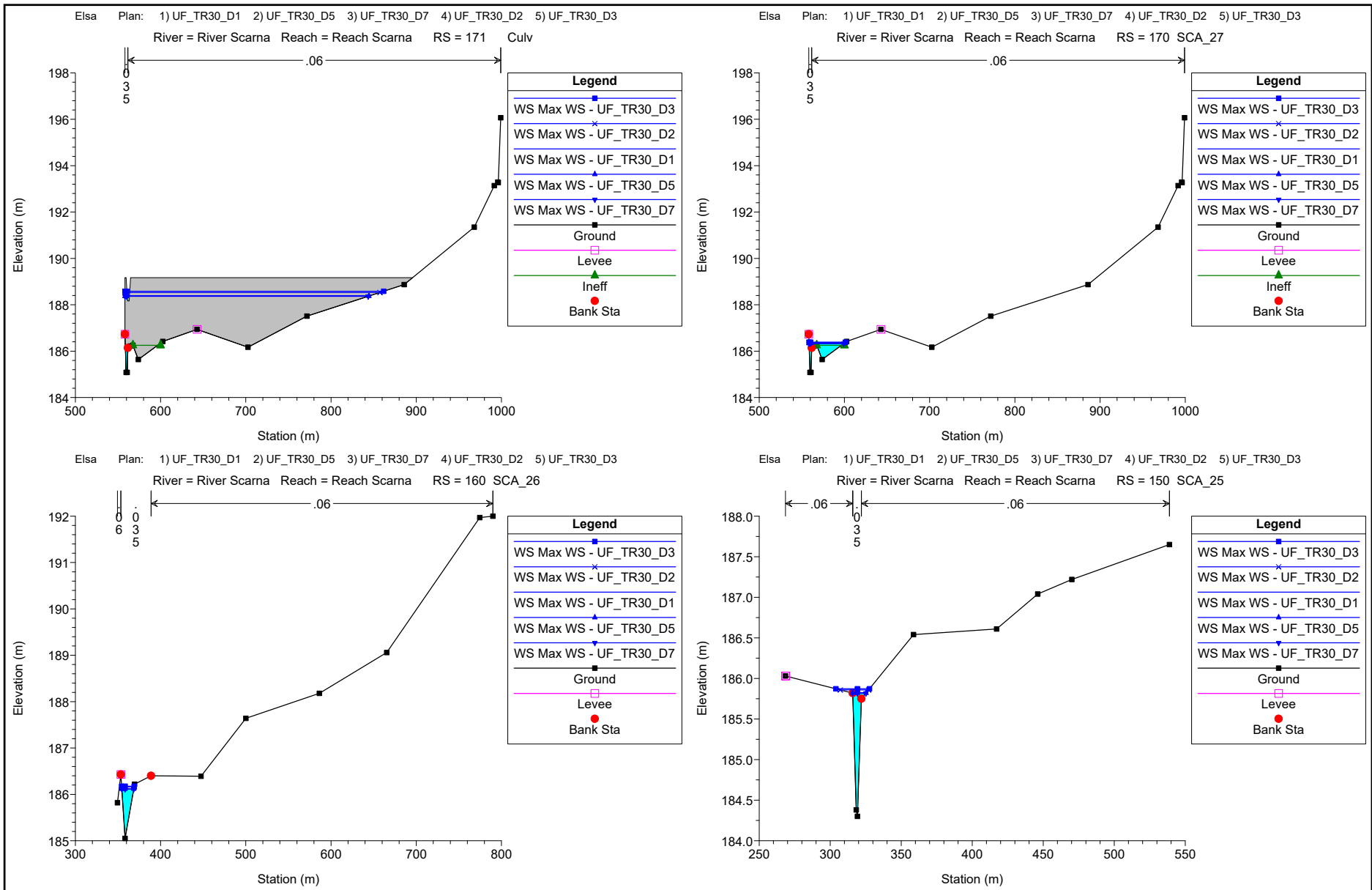
MODELLAZIONE PER TR=30 anni

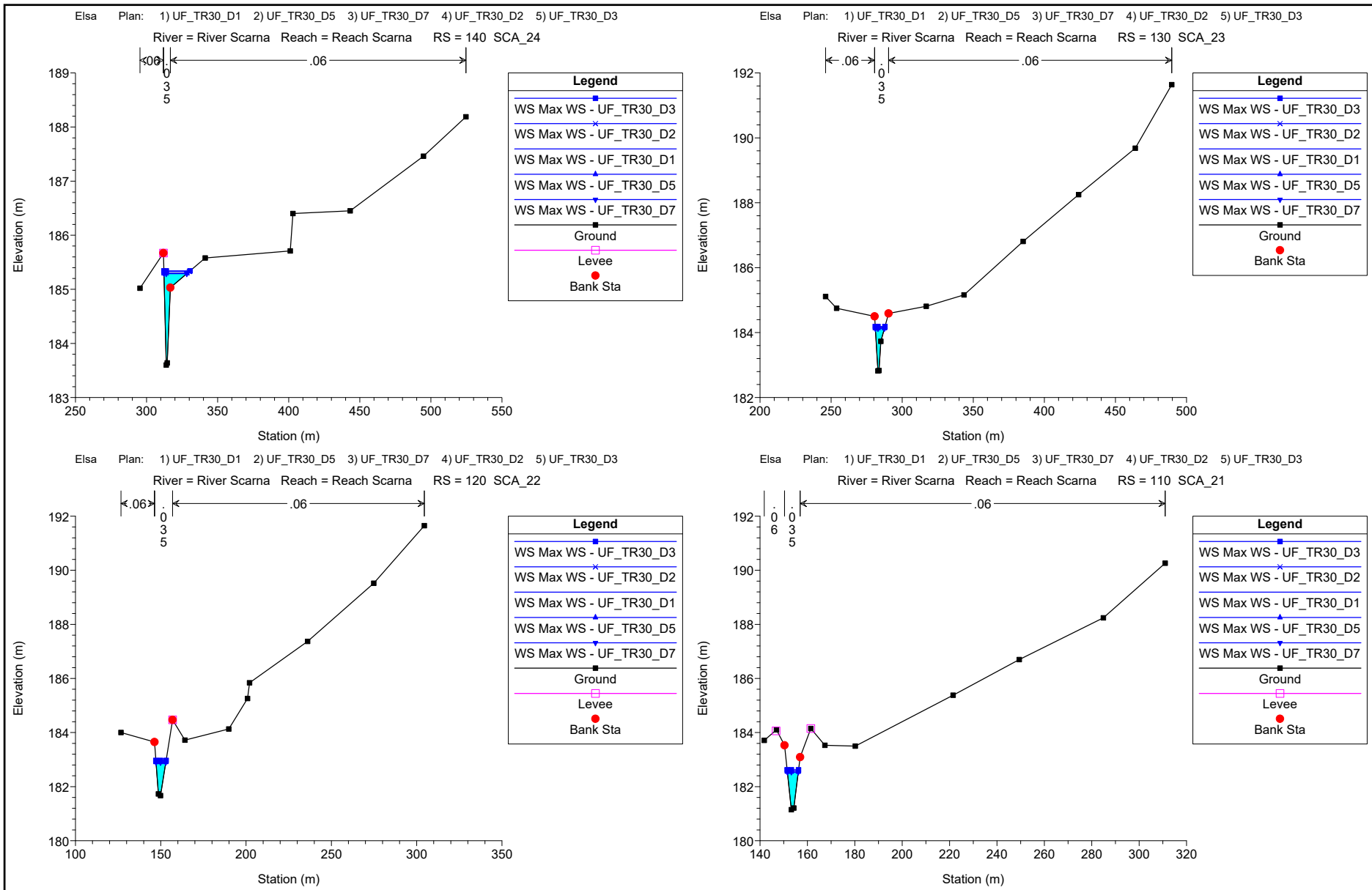
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

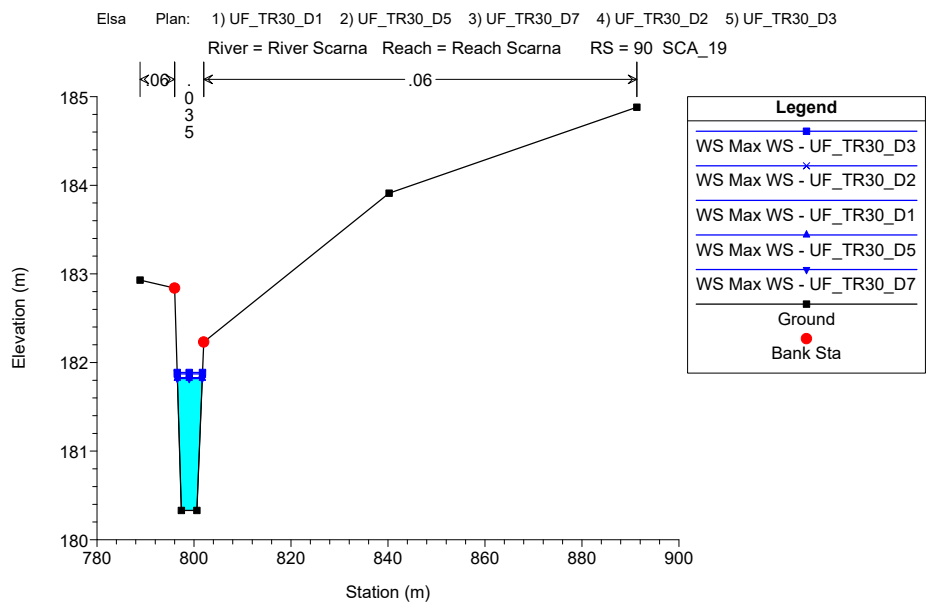
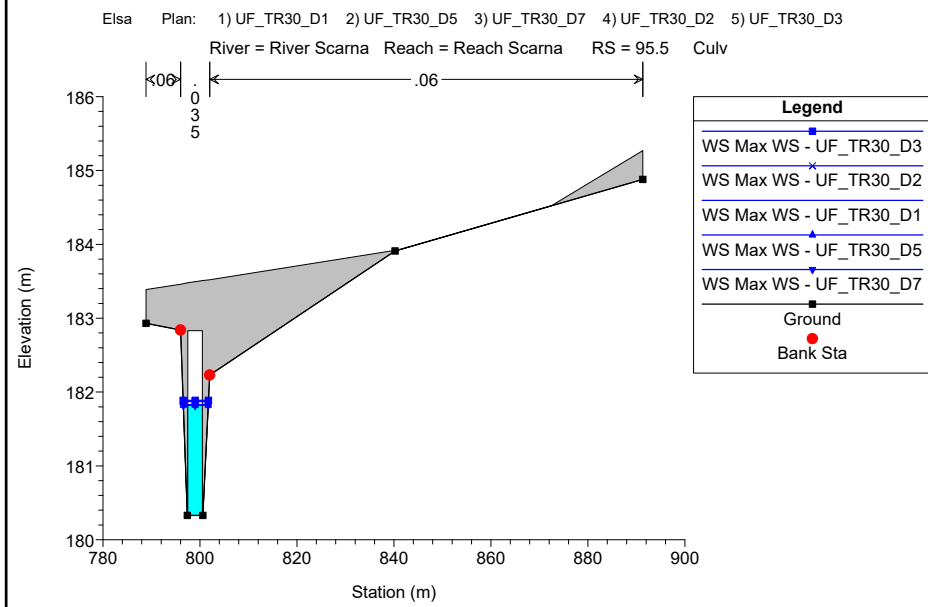
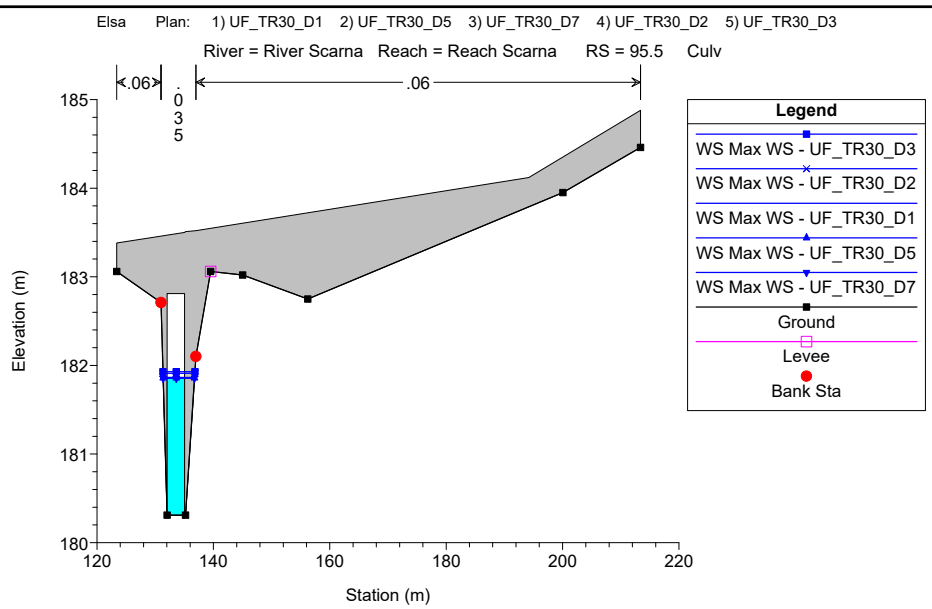
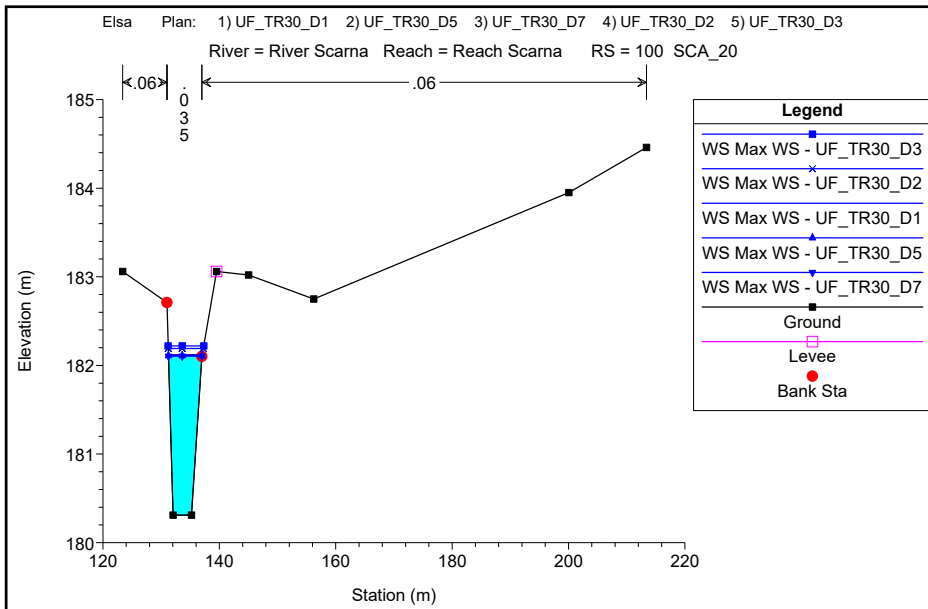
Sezioni Trasversali (da monte verso valle)

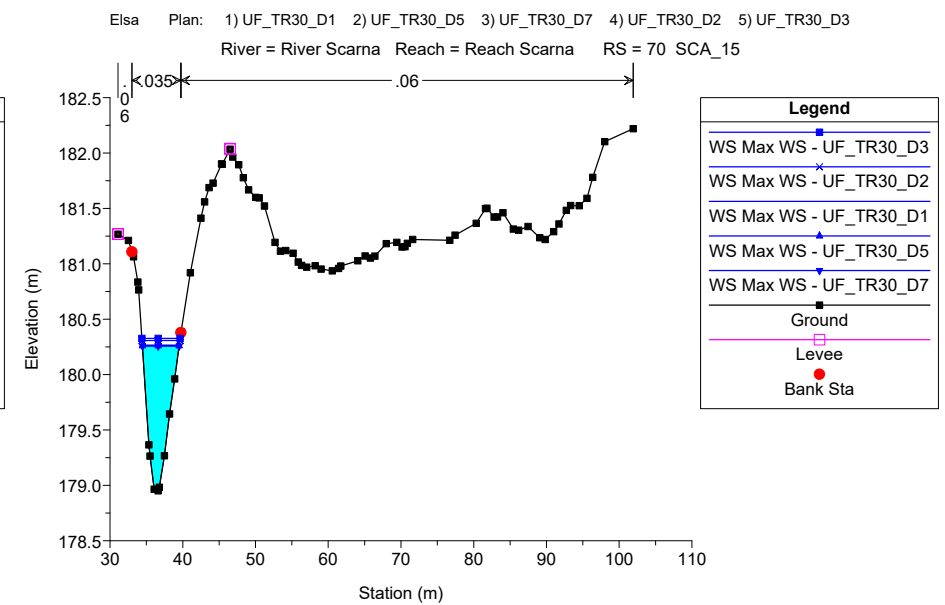
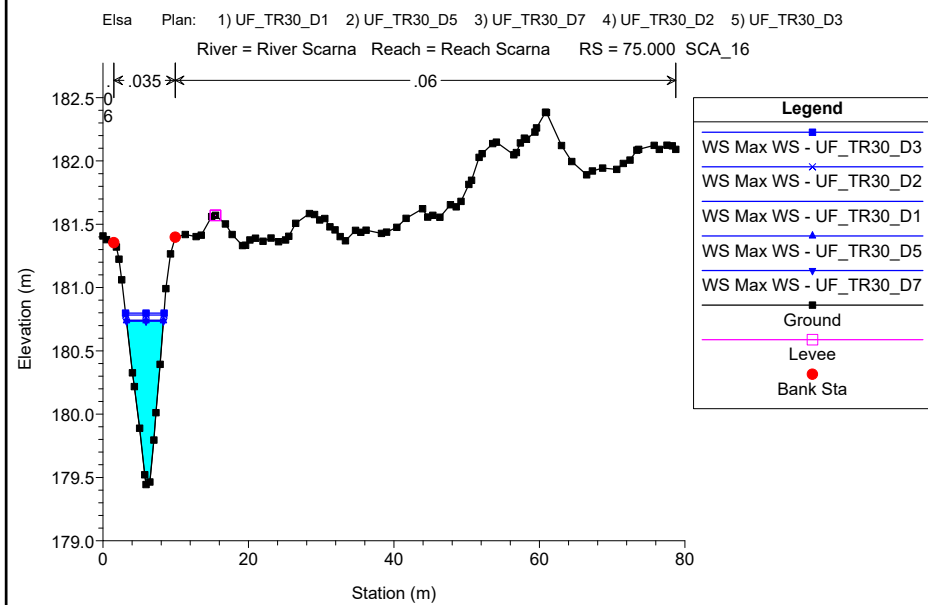
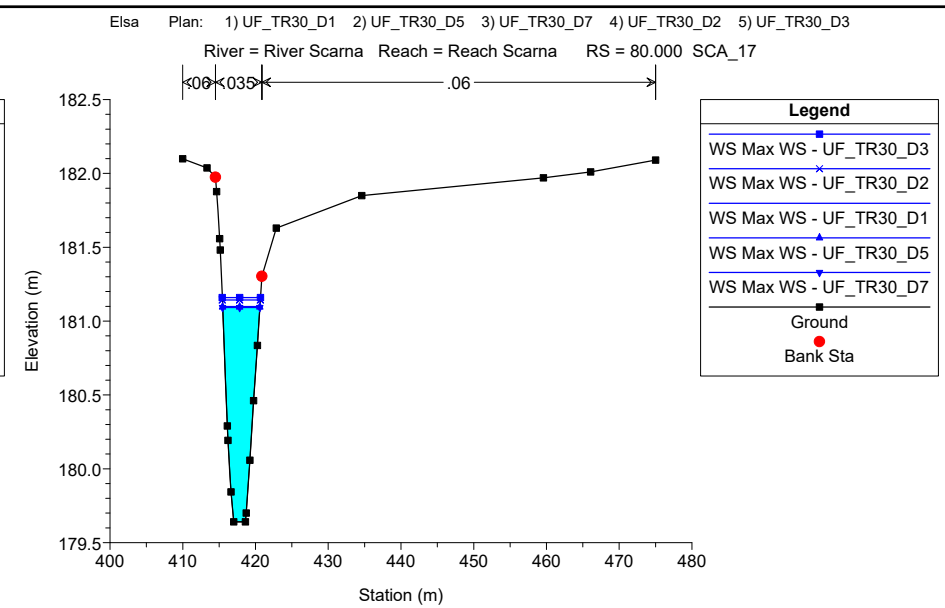
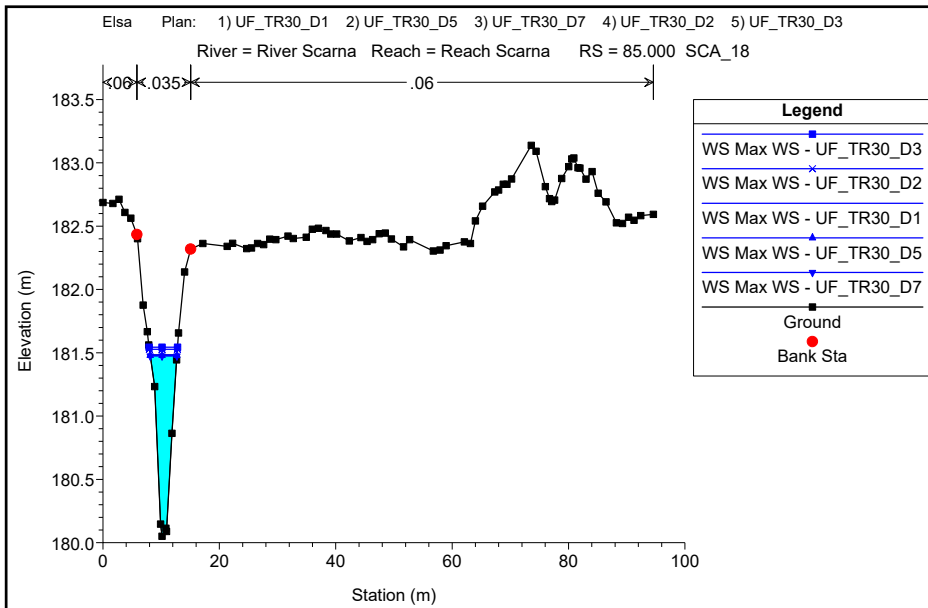


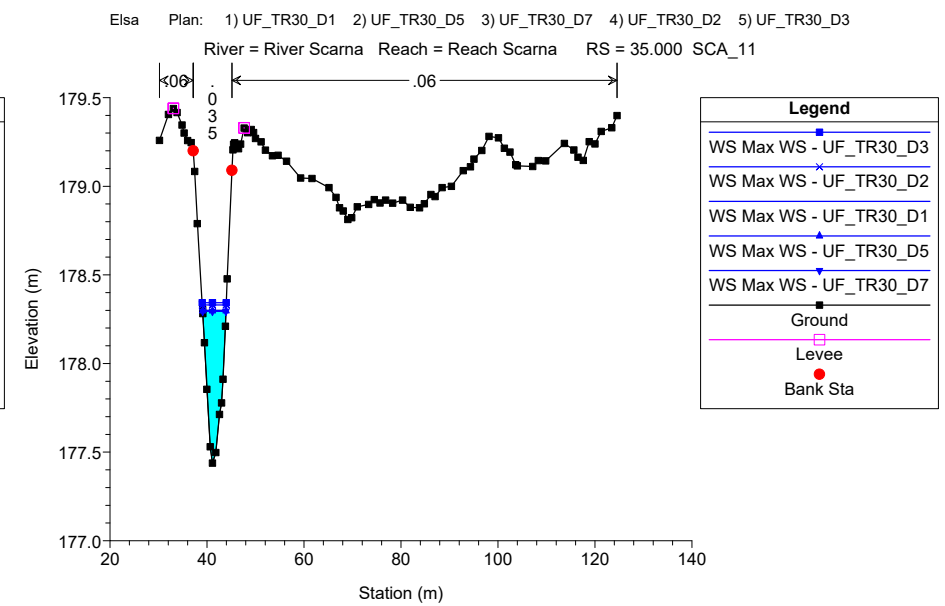
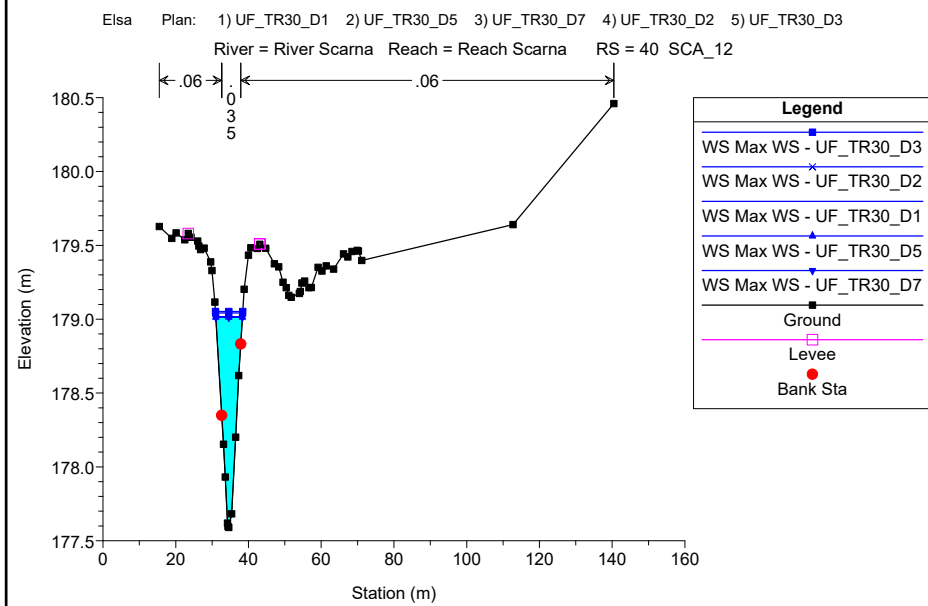
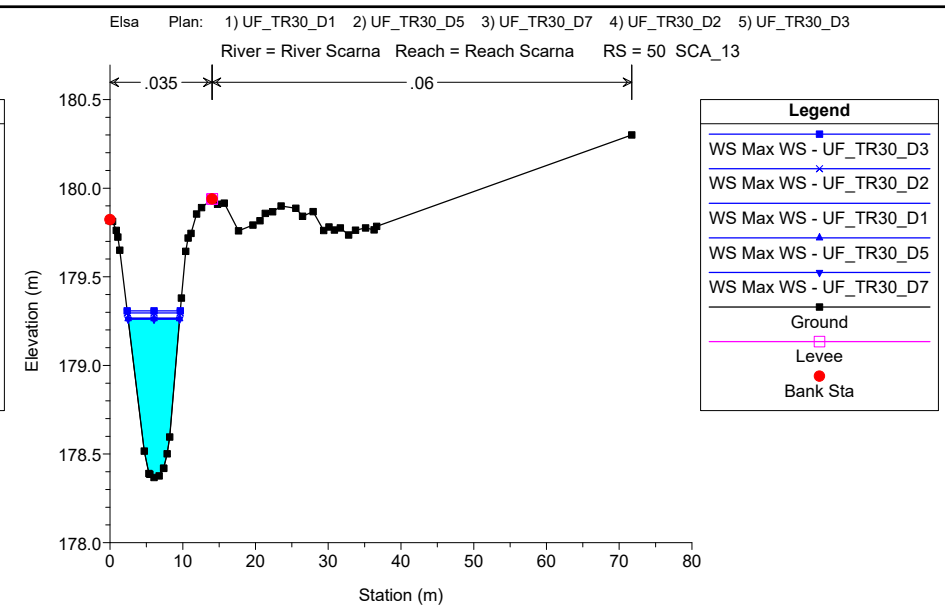
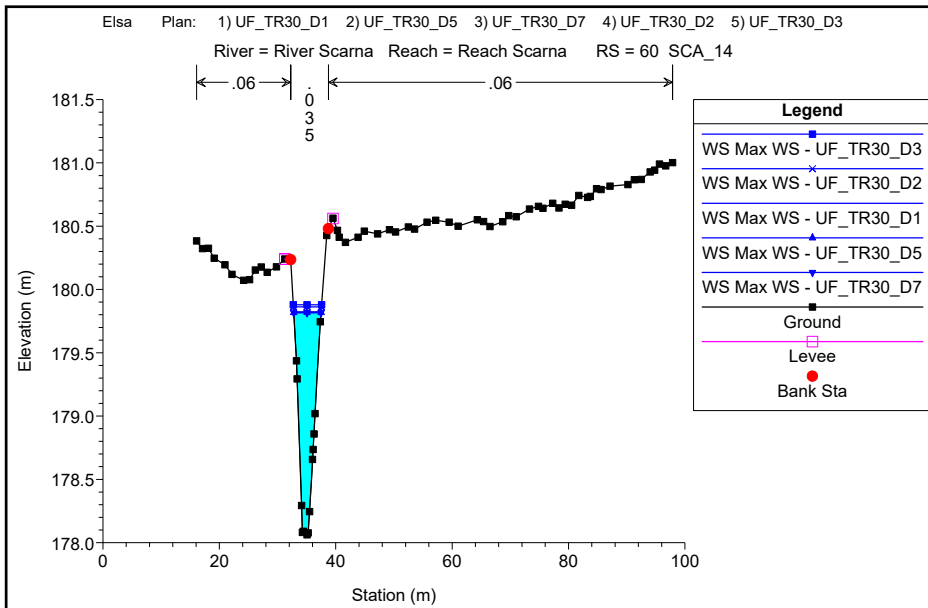


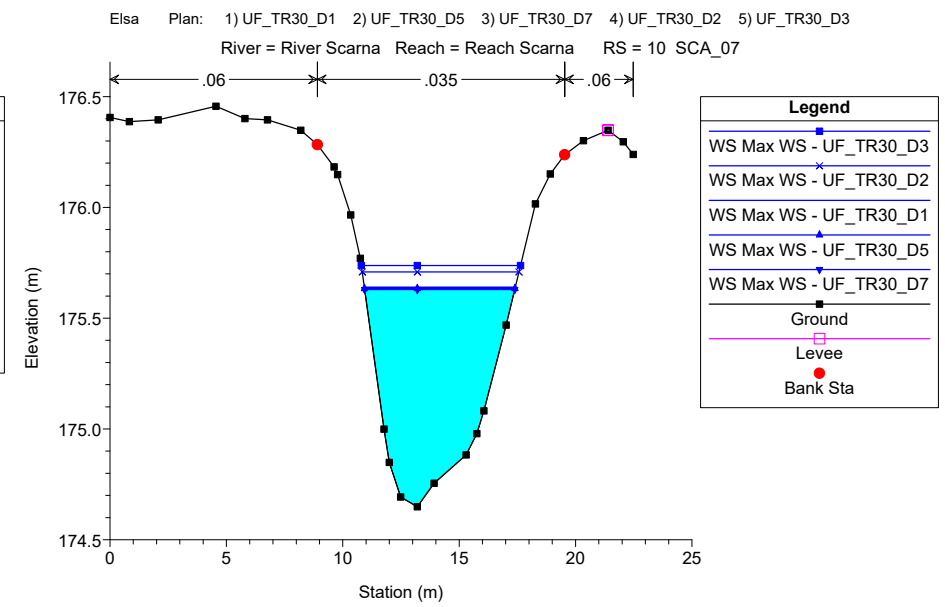
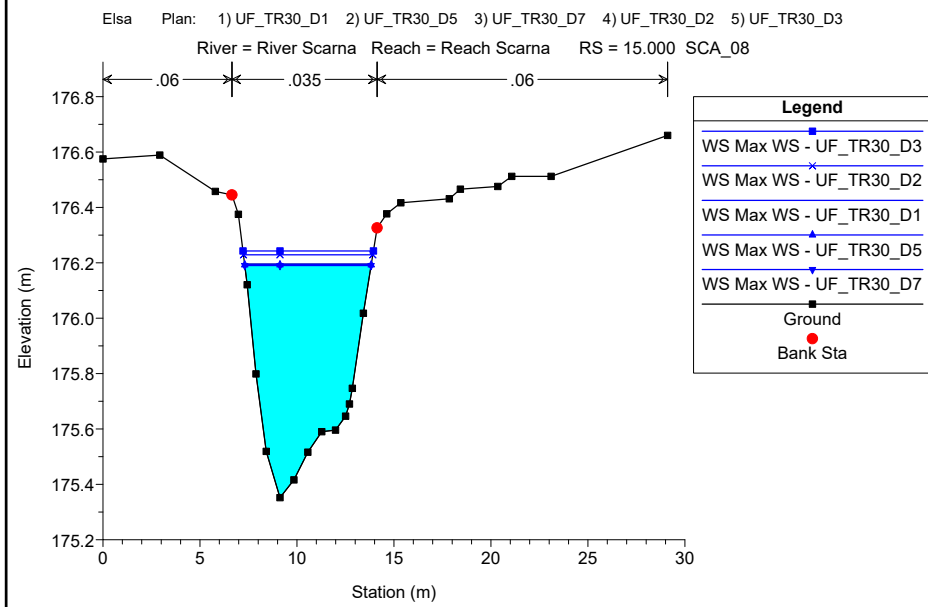
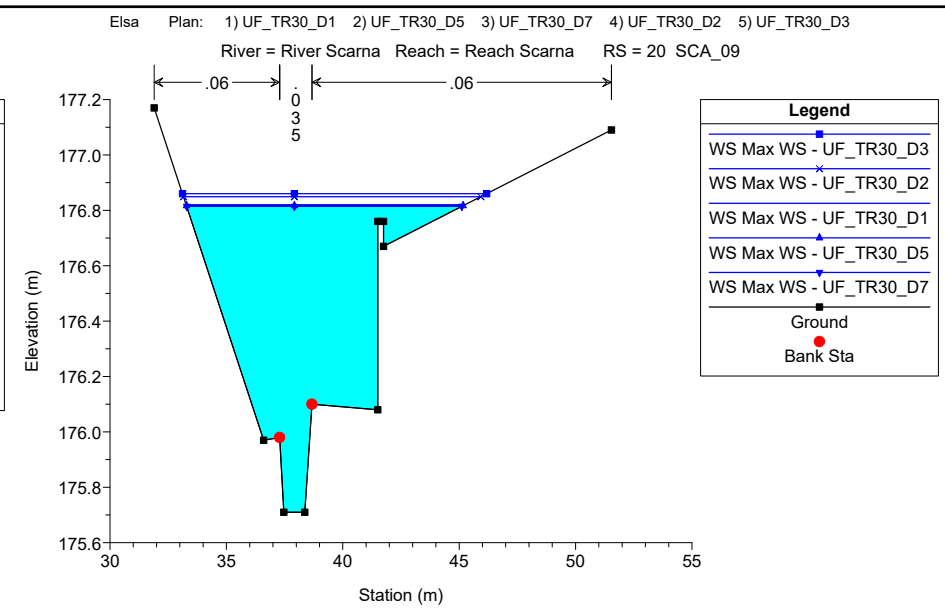
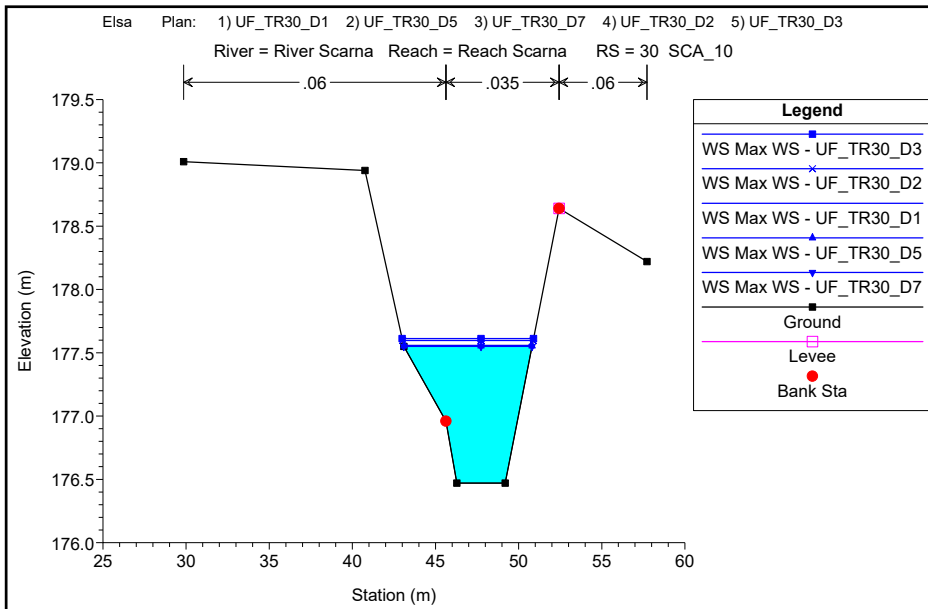


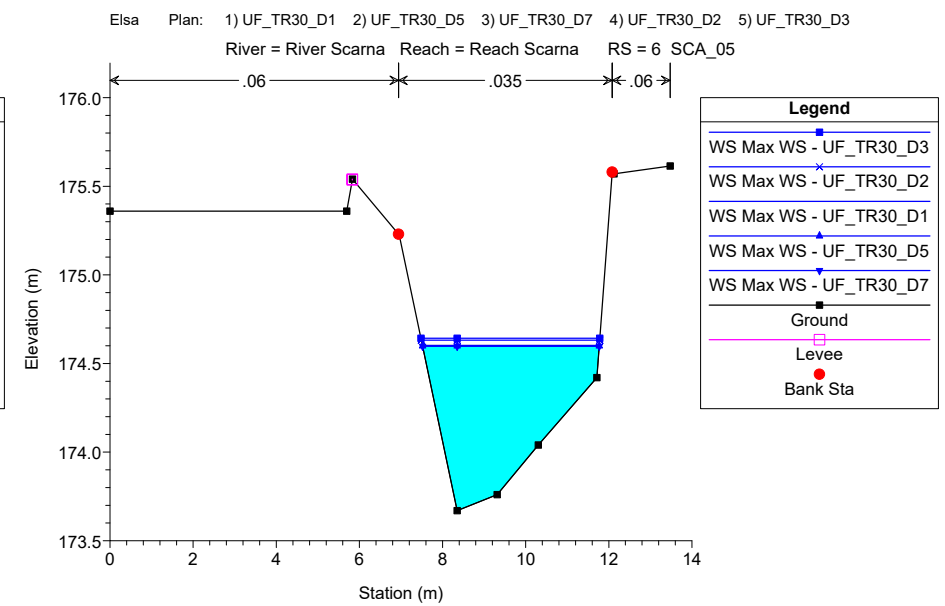
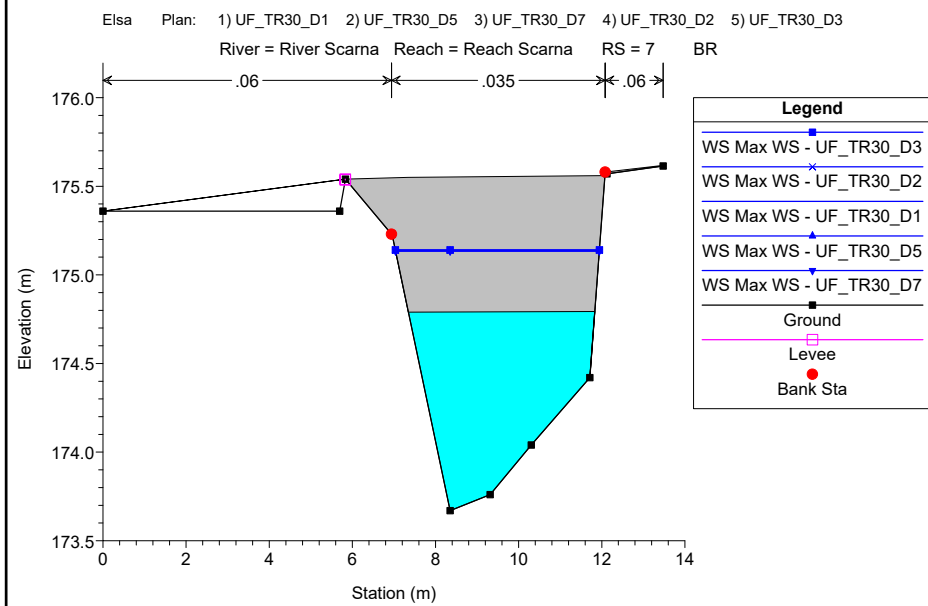
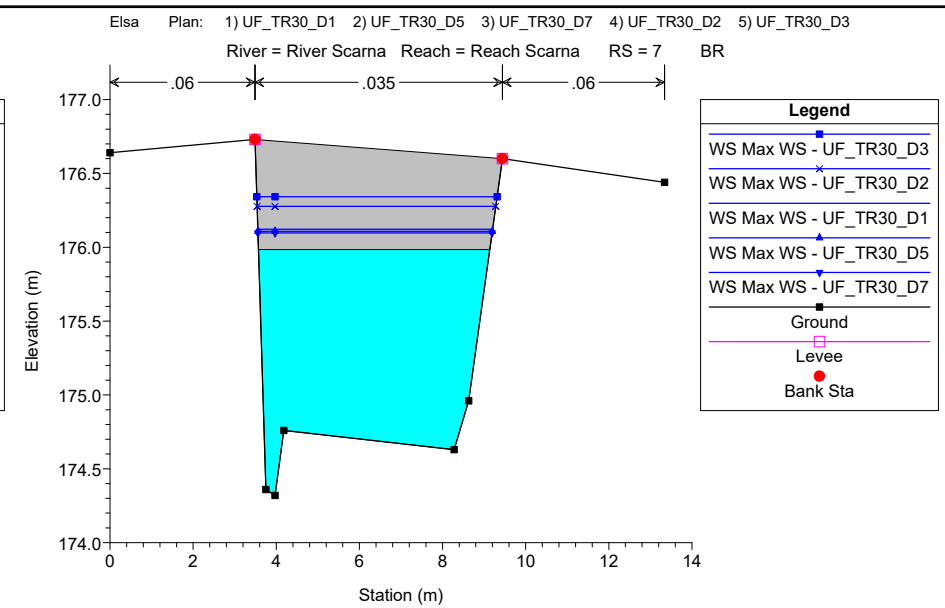
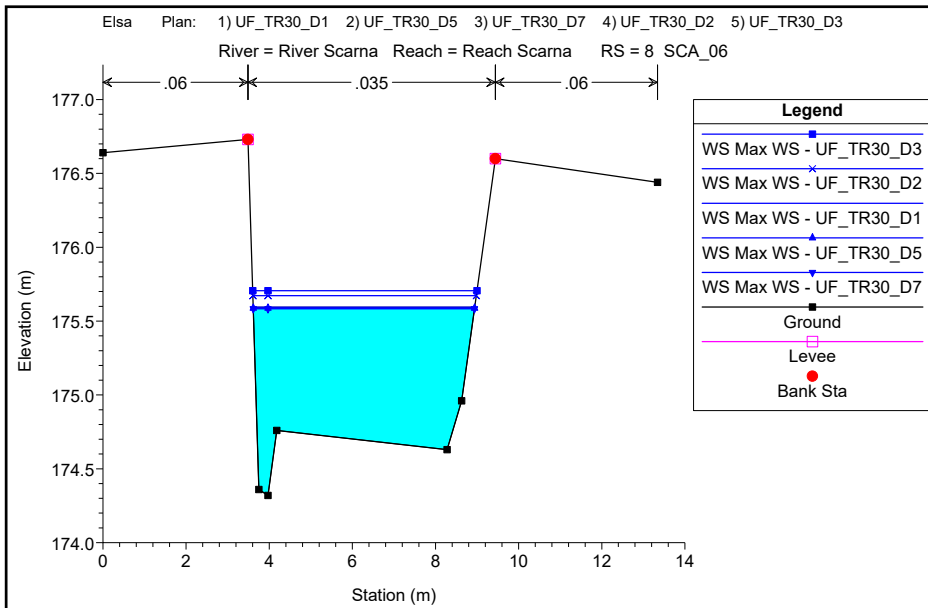


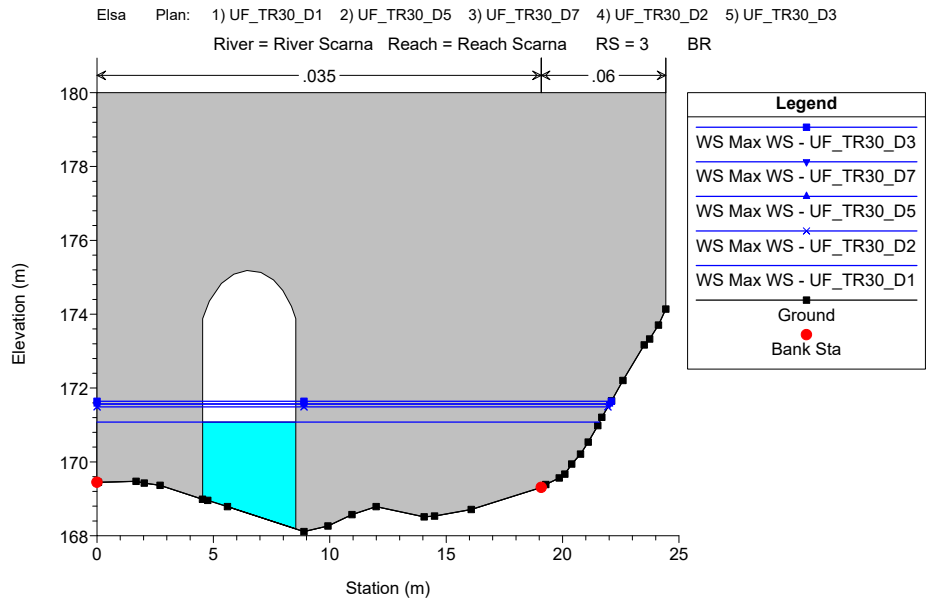
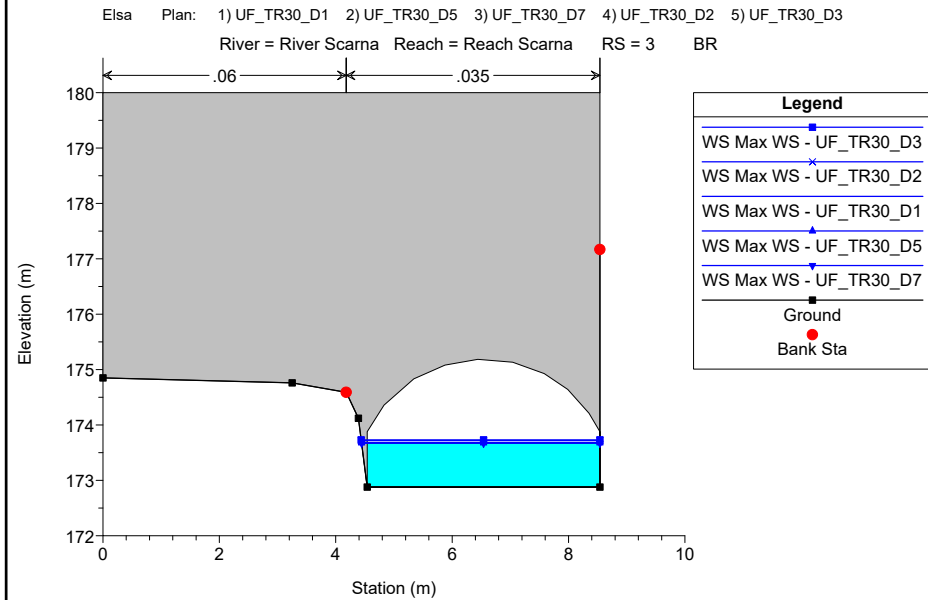
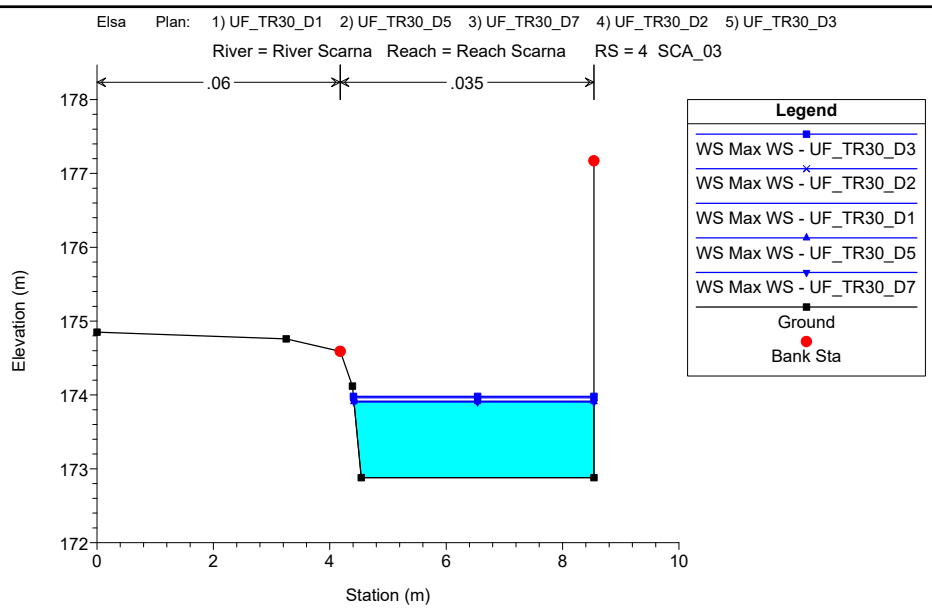
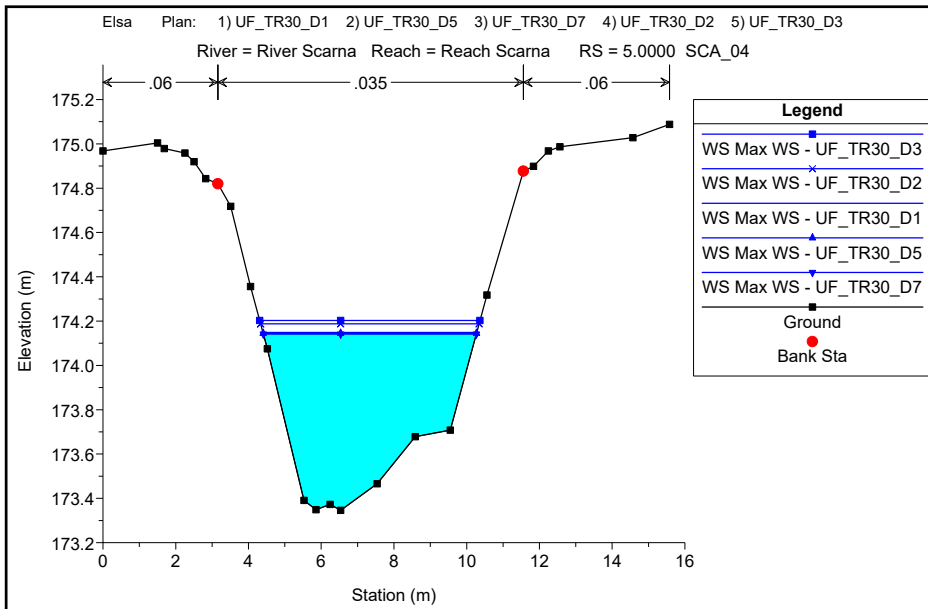


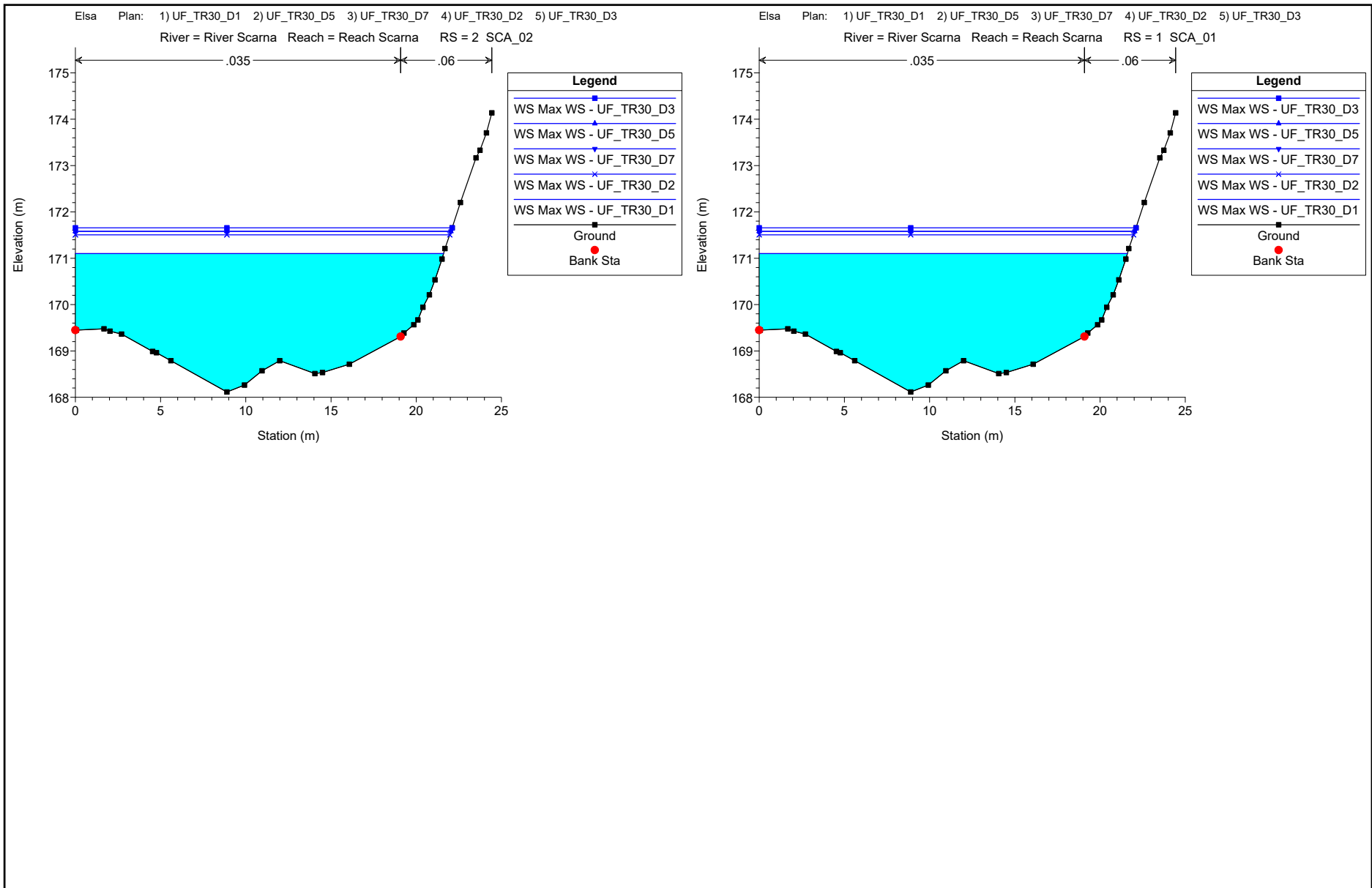












ALLEGATI

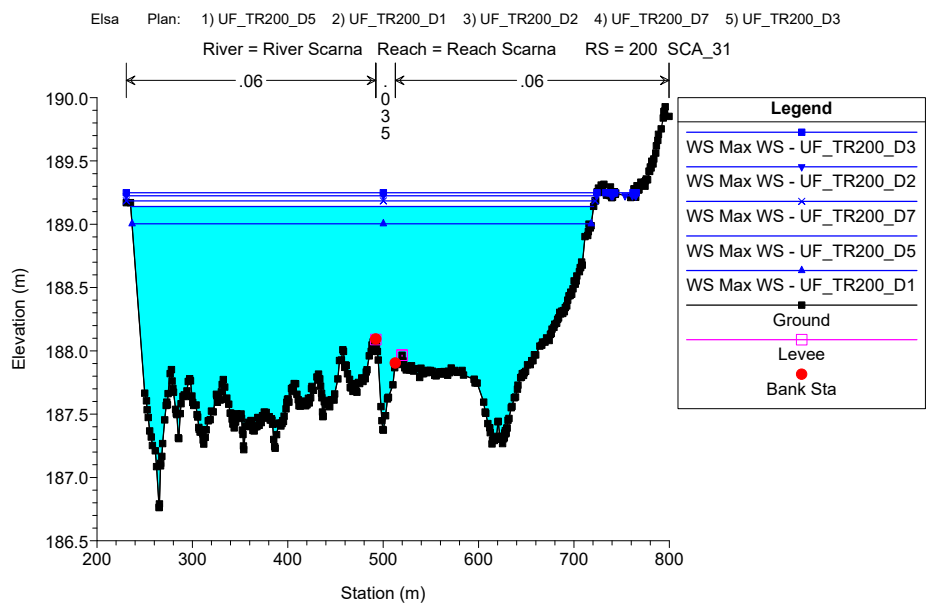
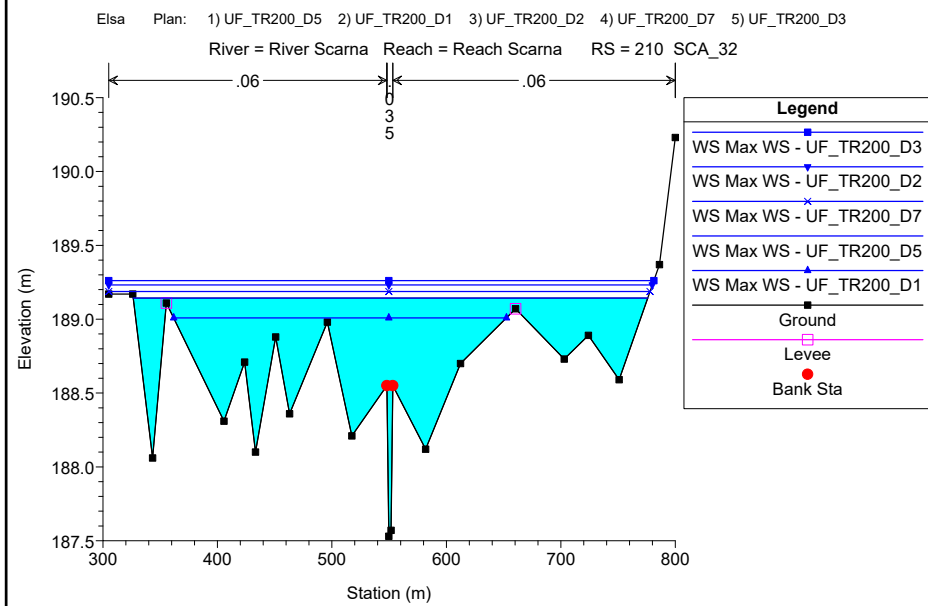
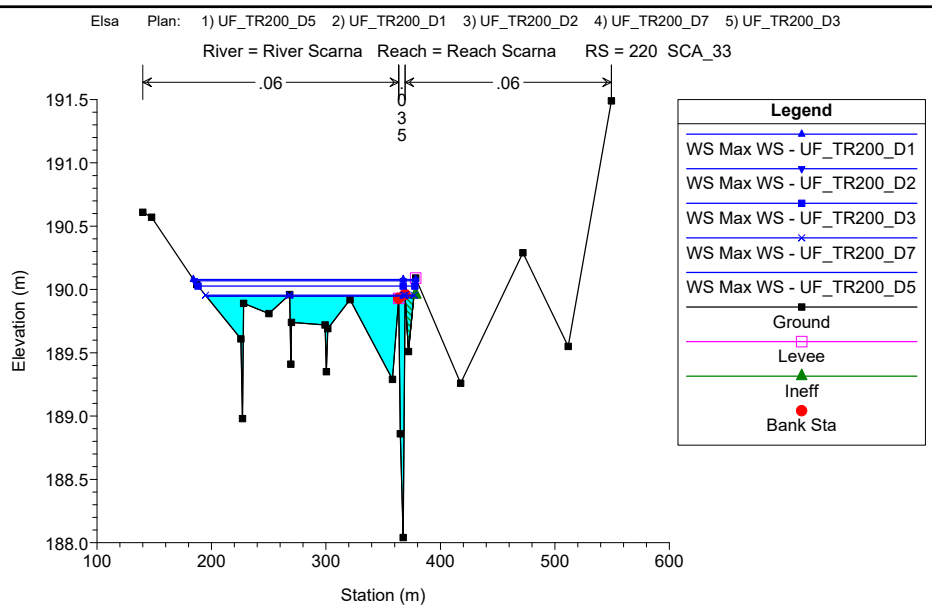
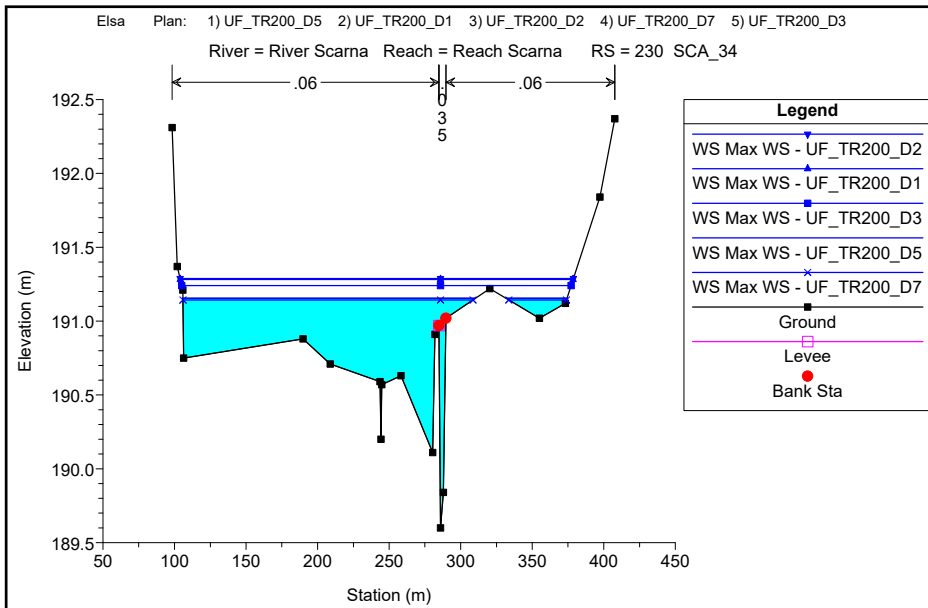
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

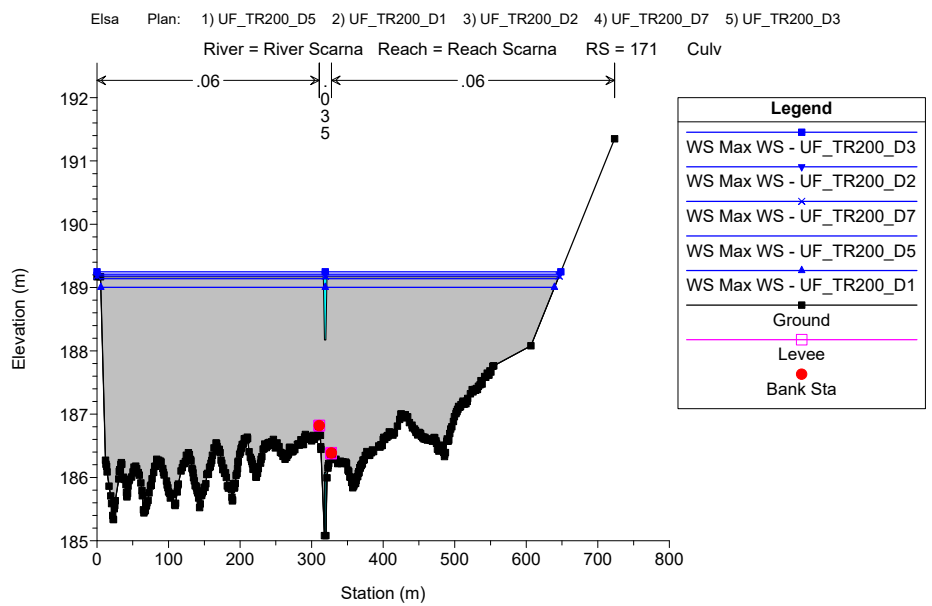
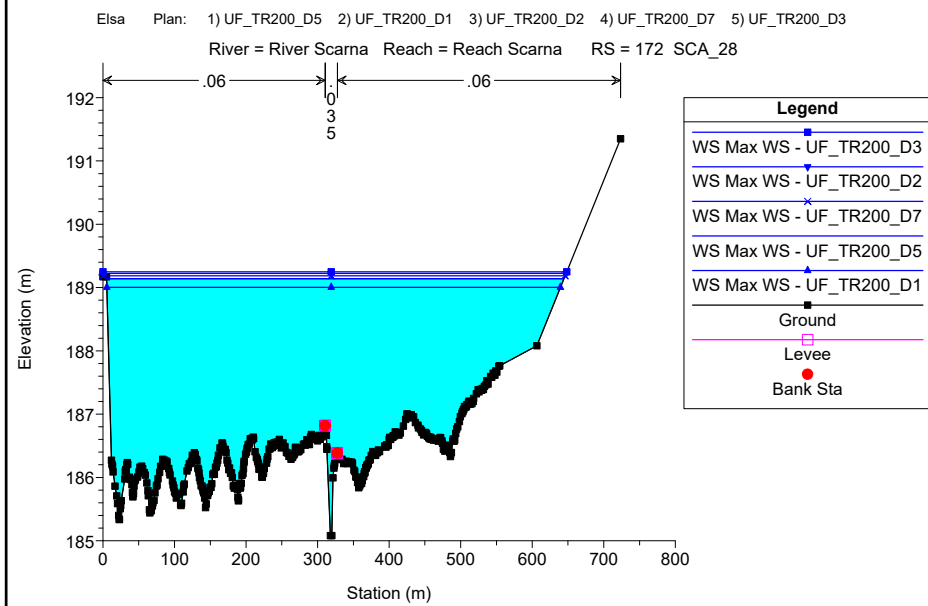
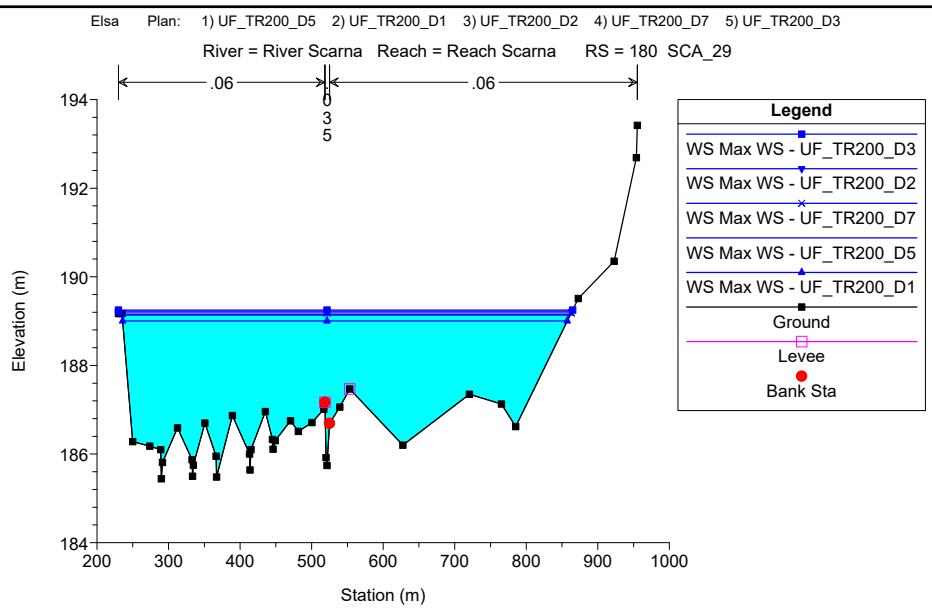
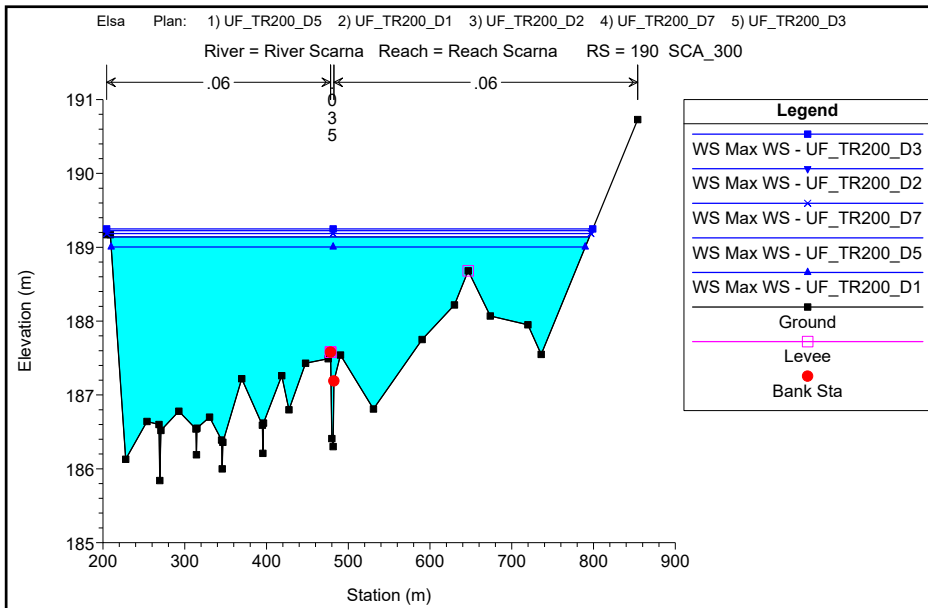
TORRENTE SCARNA

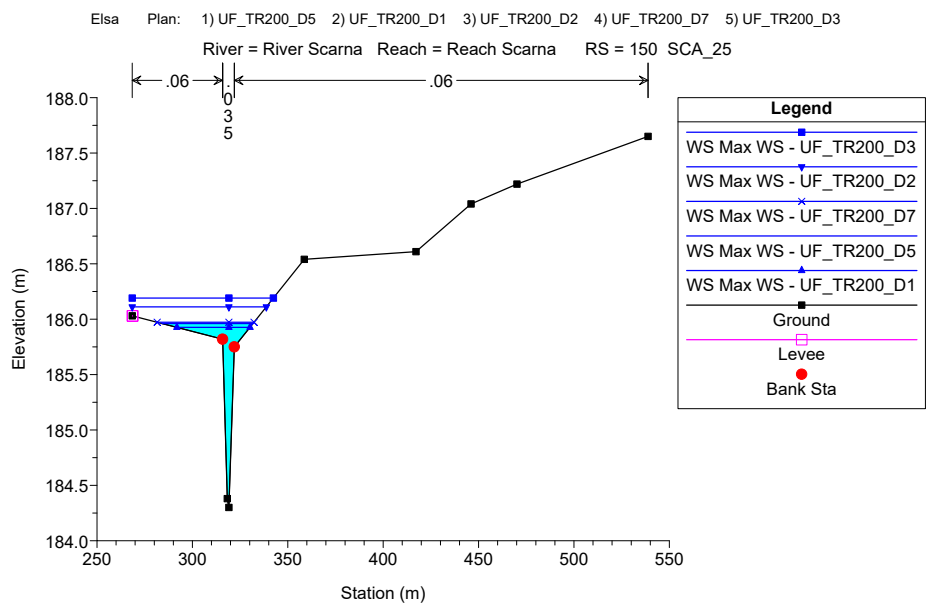
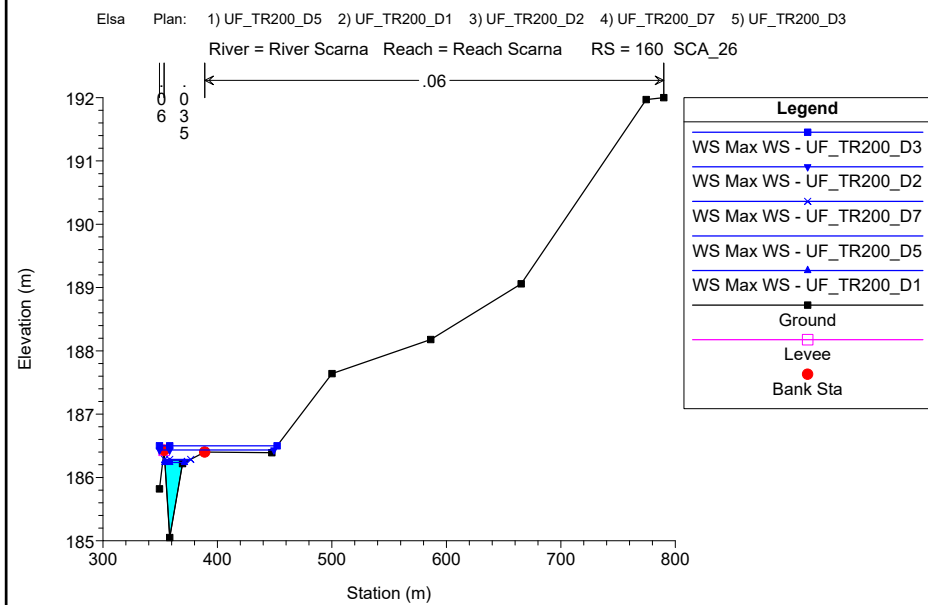
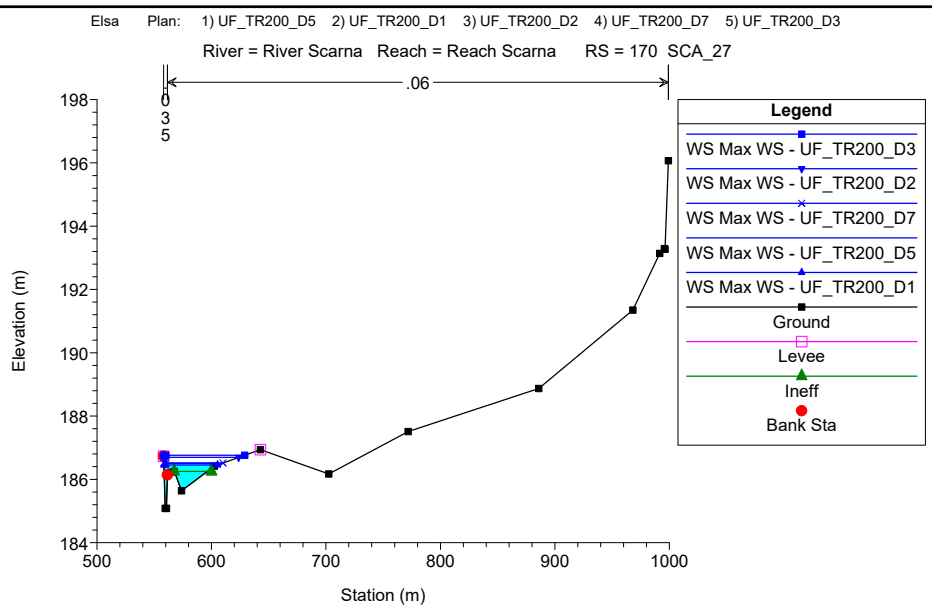
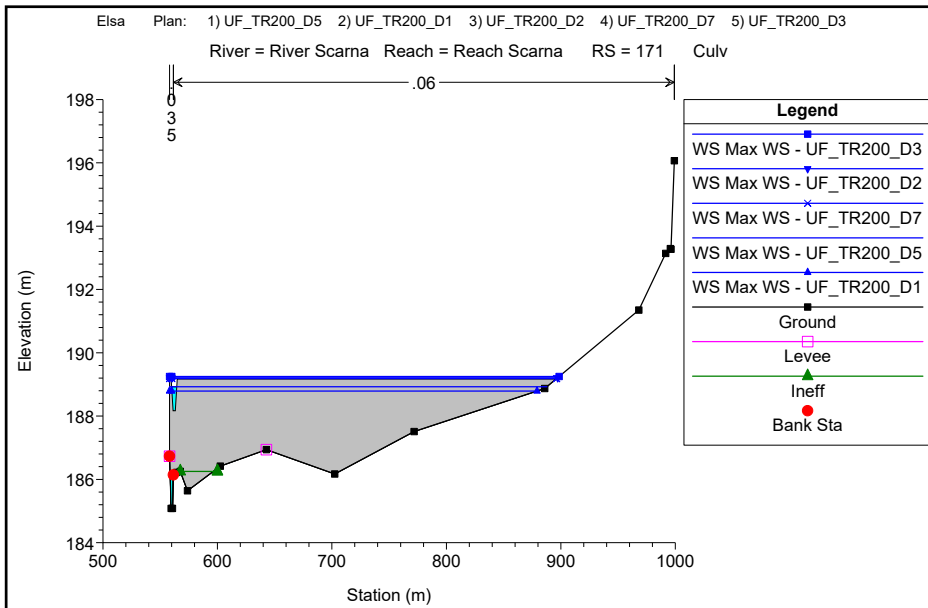
MODELLAZIONE PER TR=200 anni

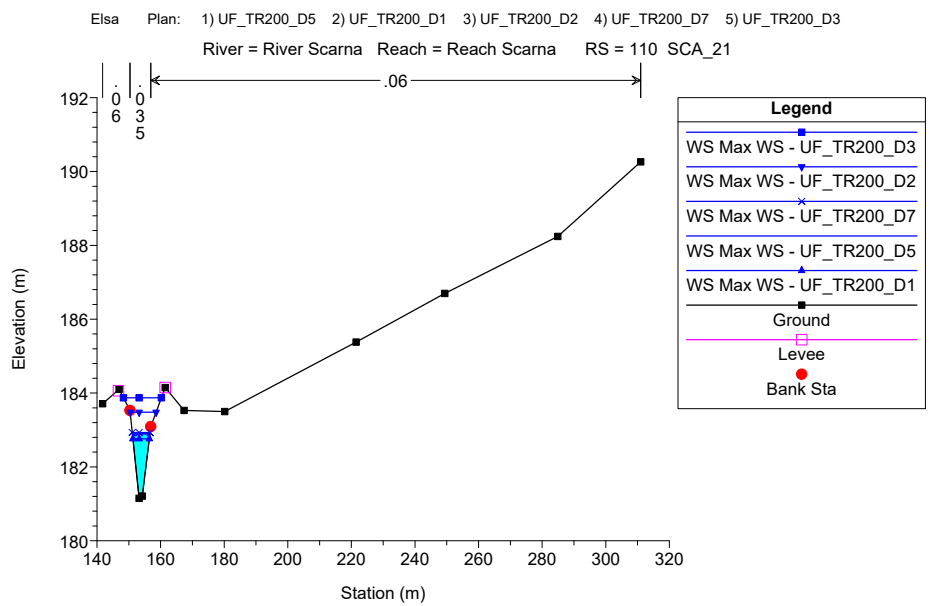
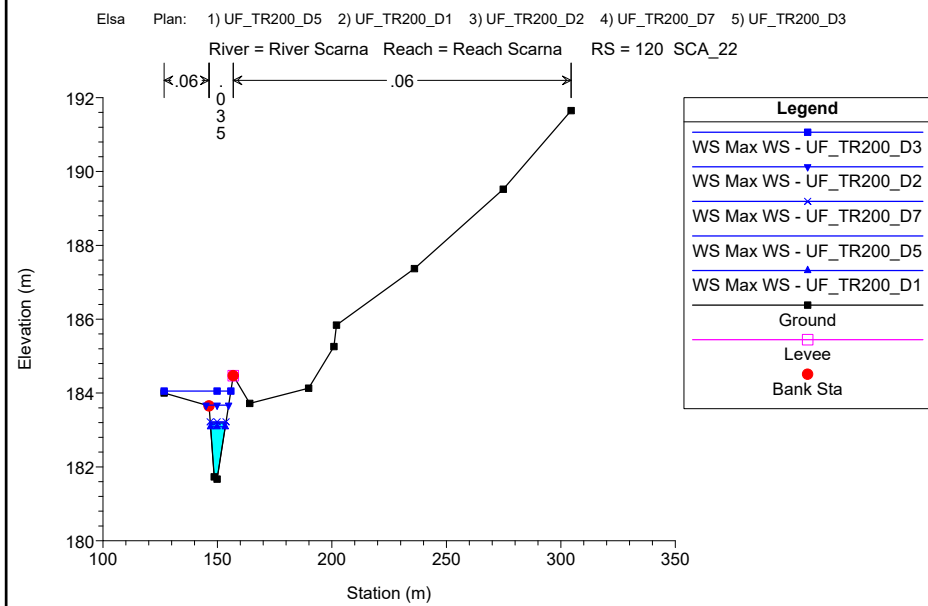
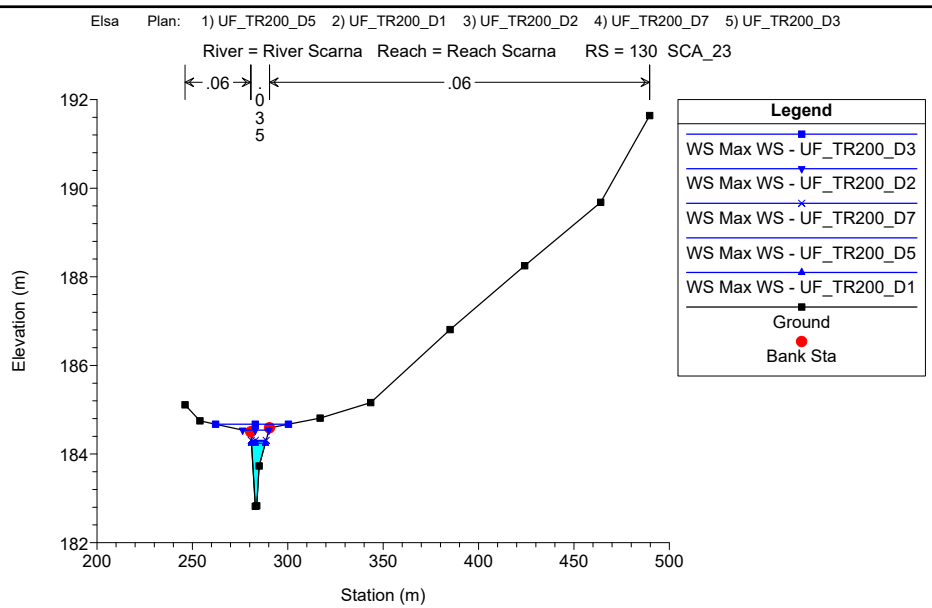
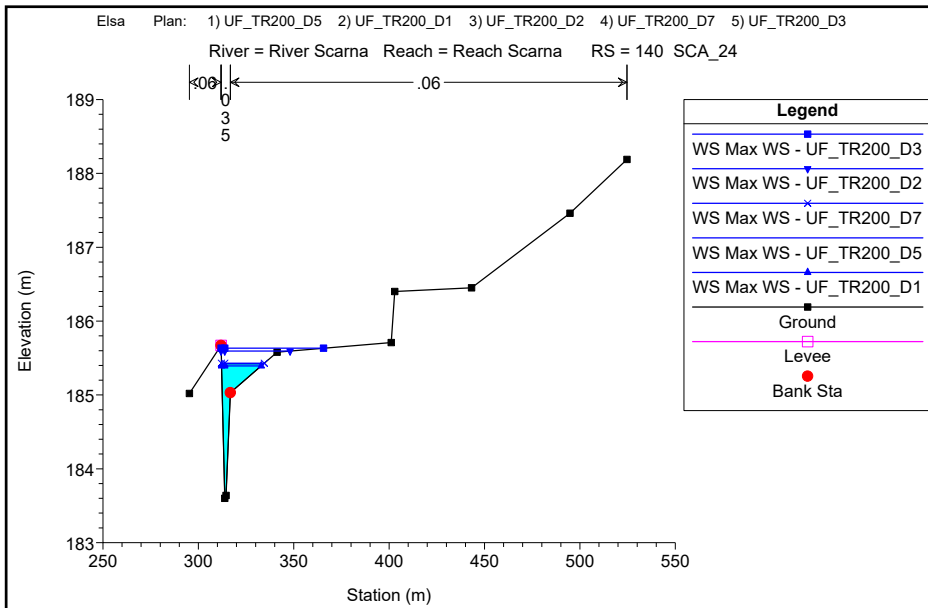
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

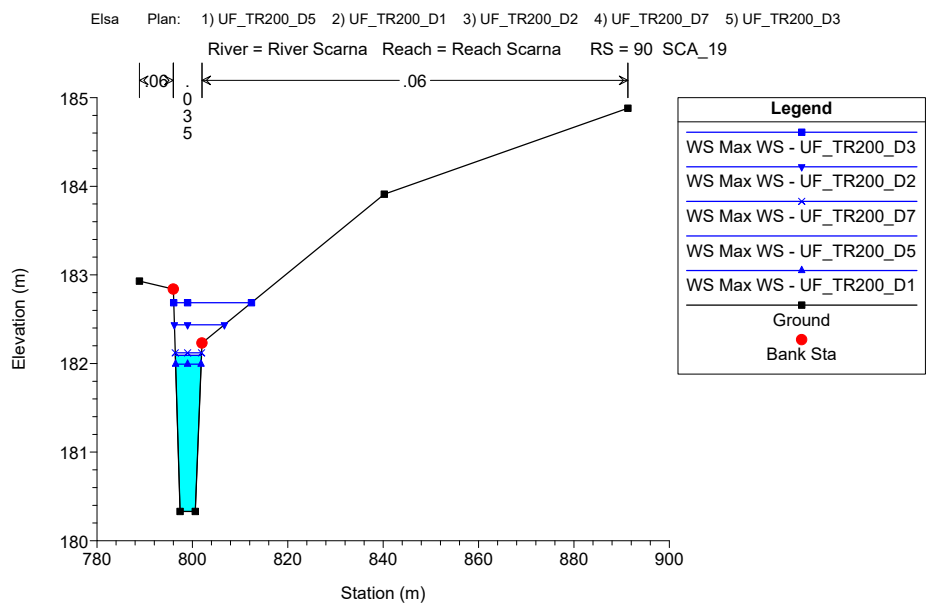
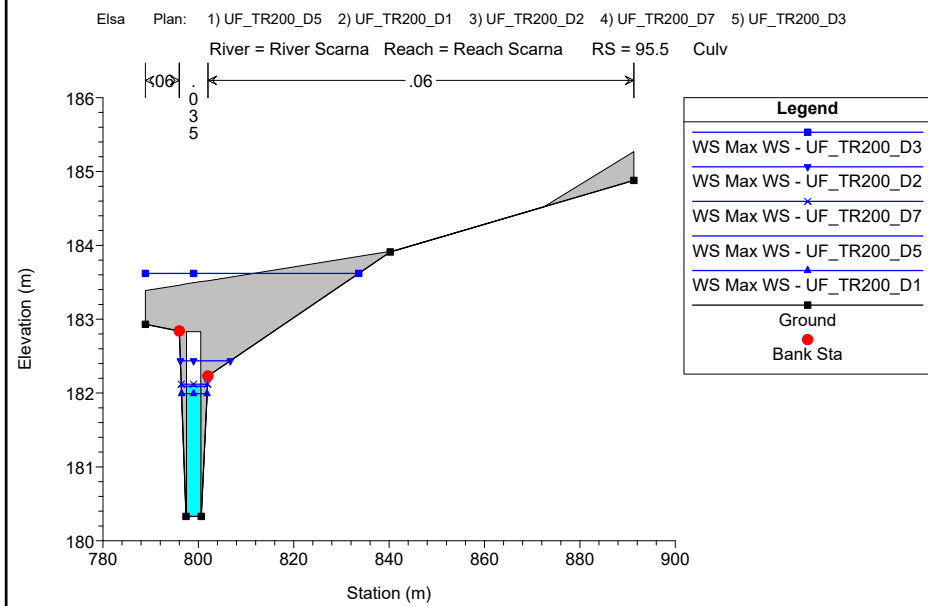
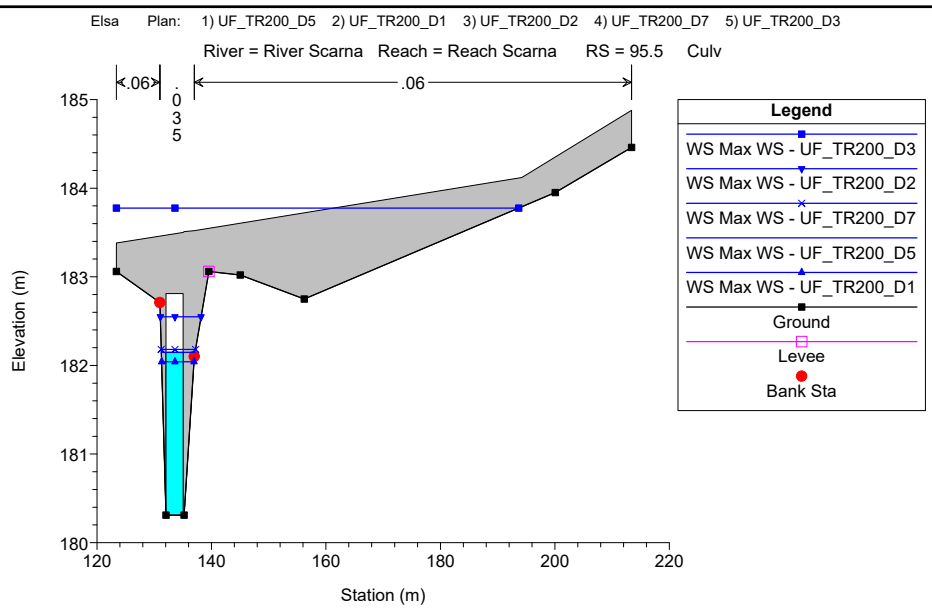
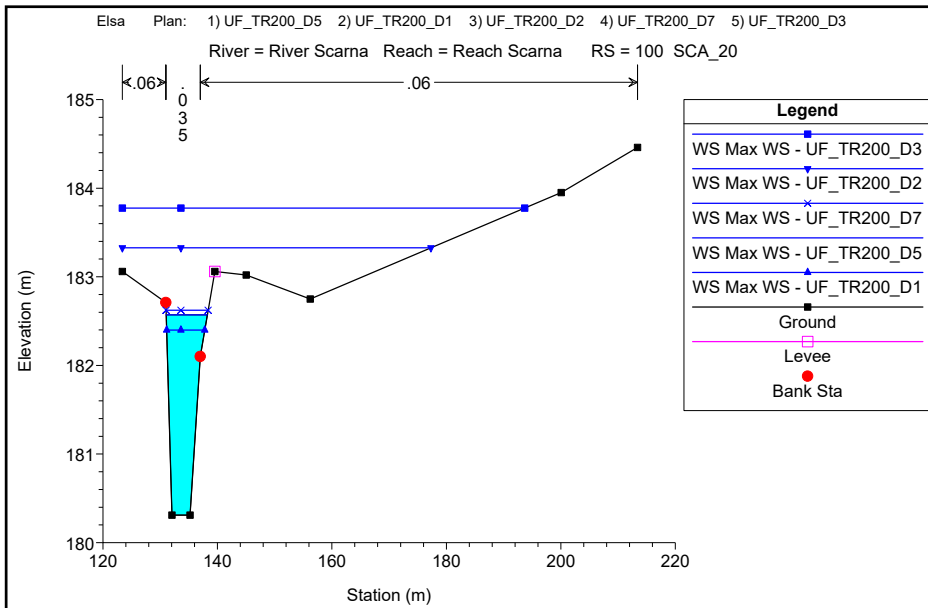
Sezioni Trasversali (da monte verso valle)

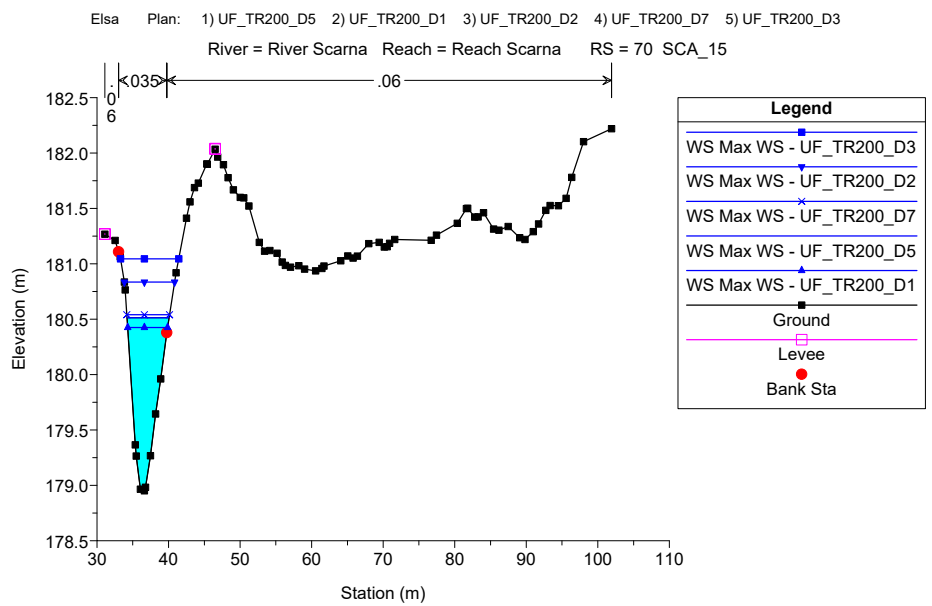
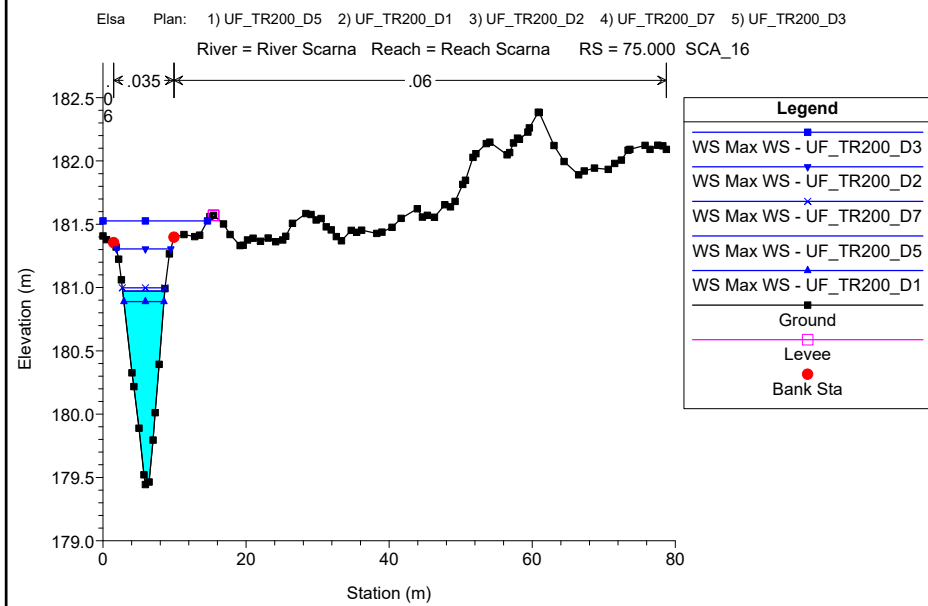
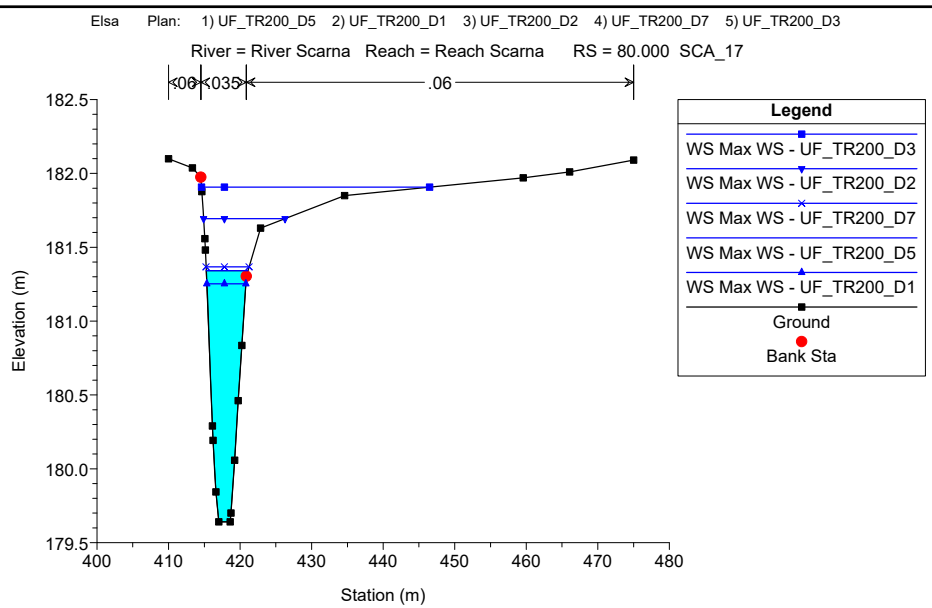
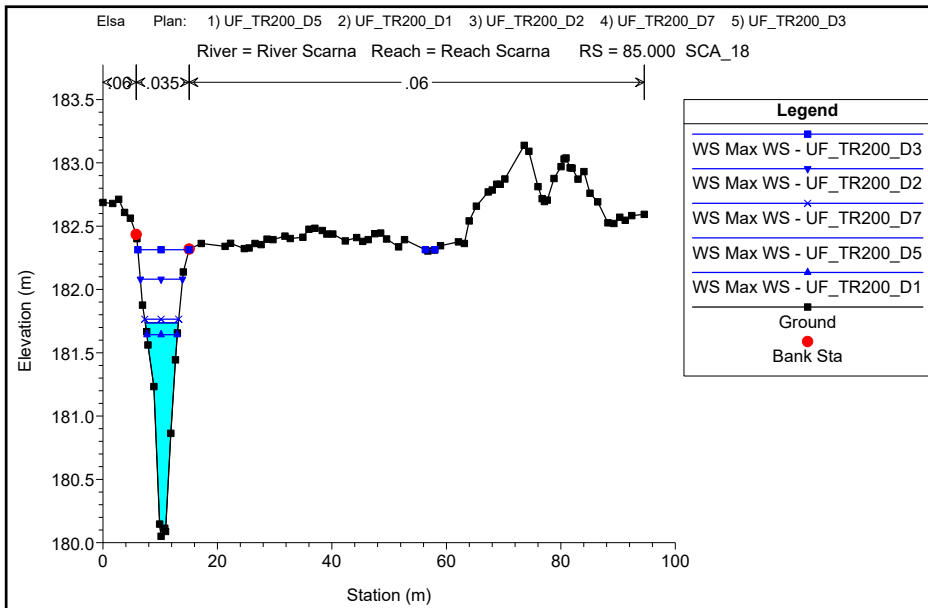


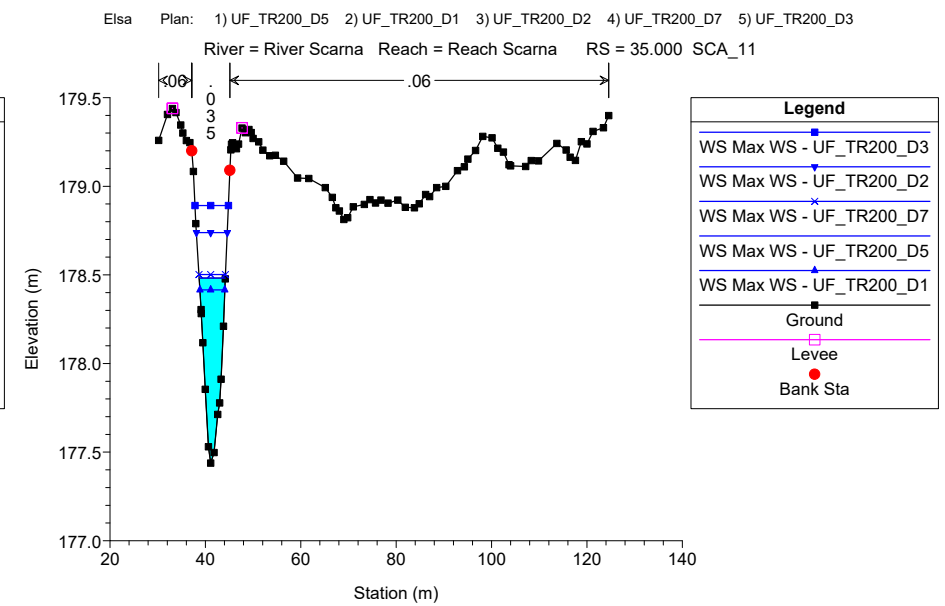
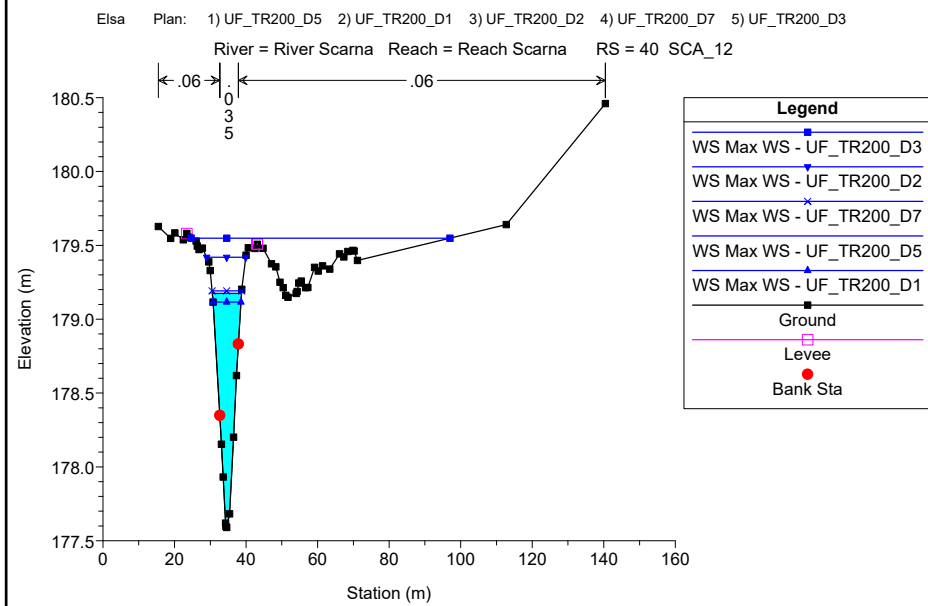
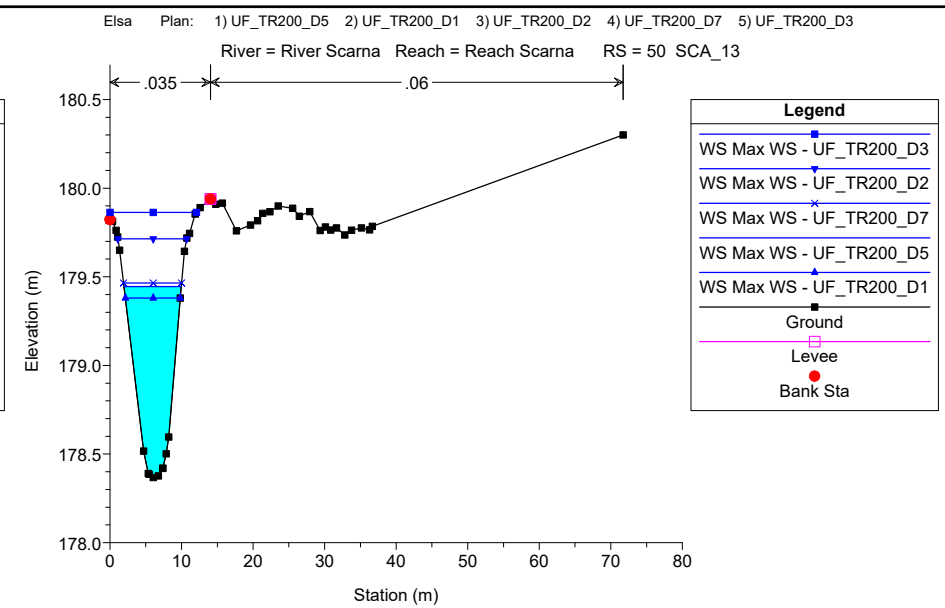
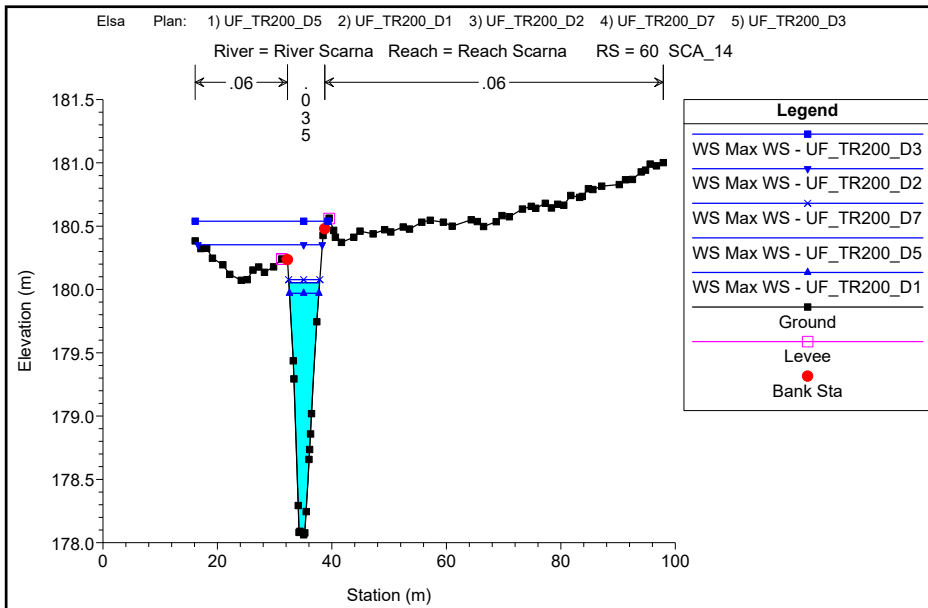


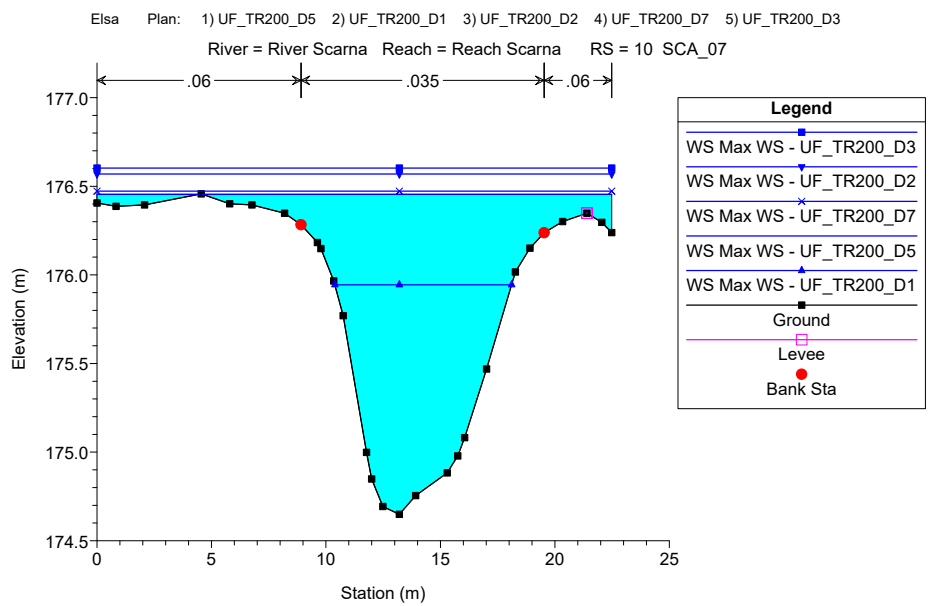
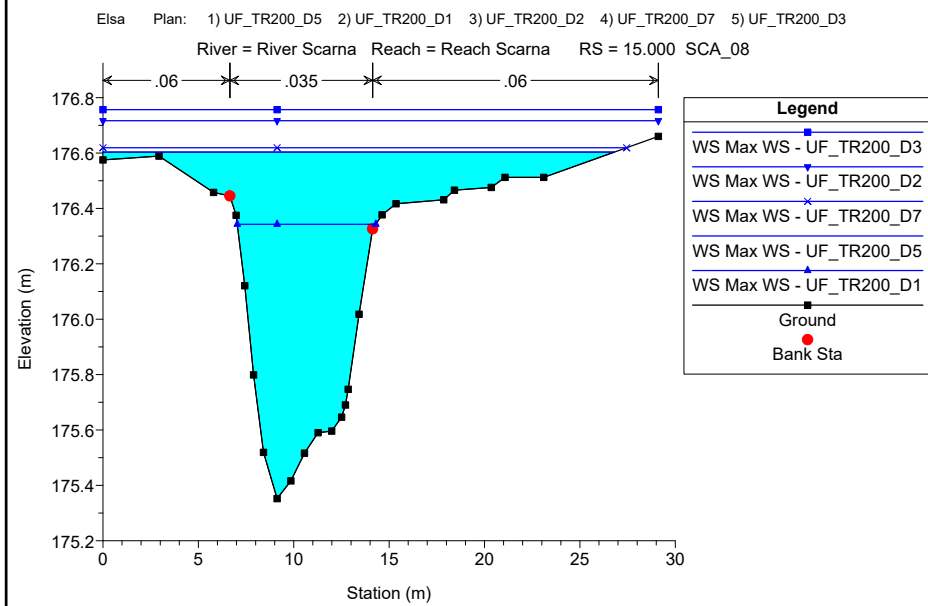
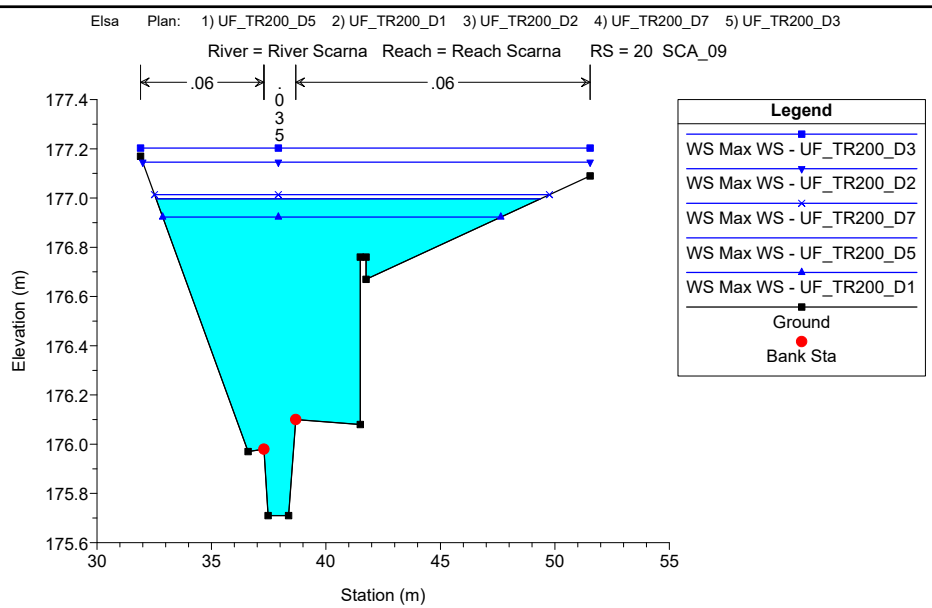
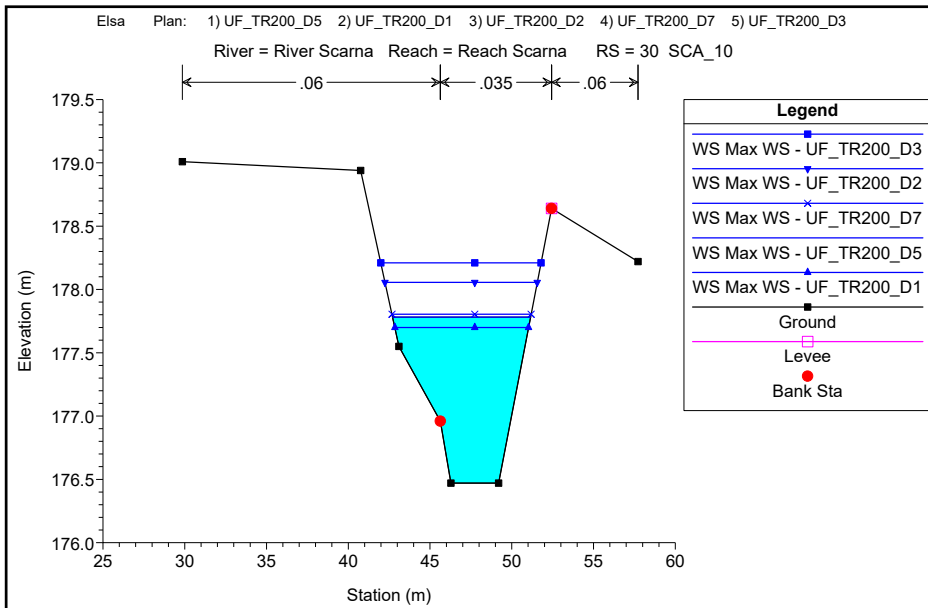


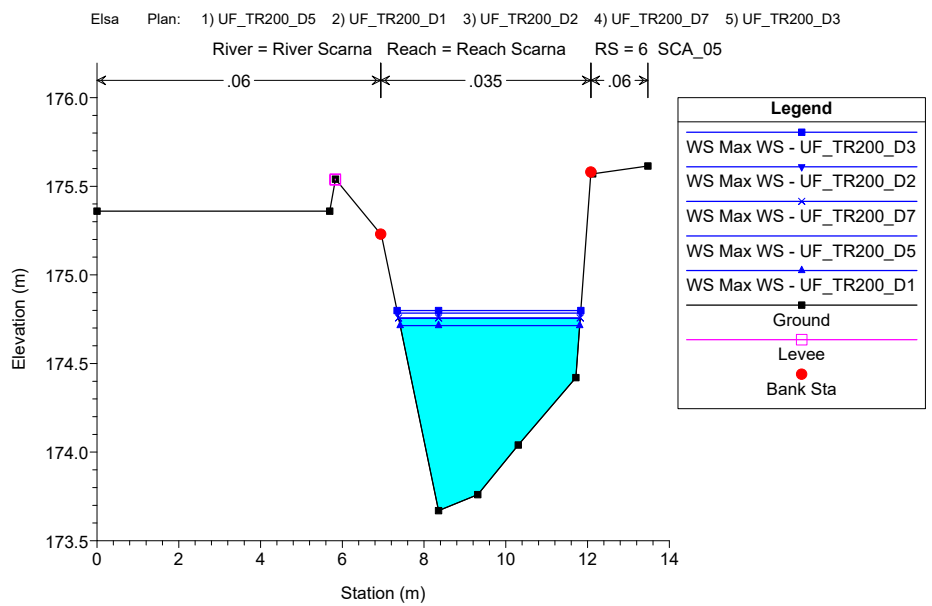
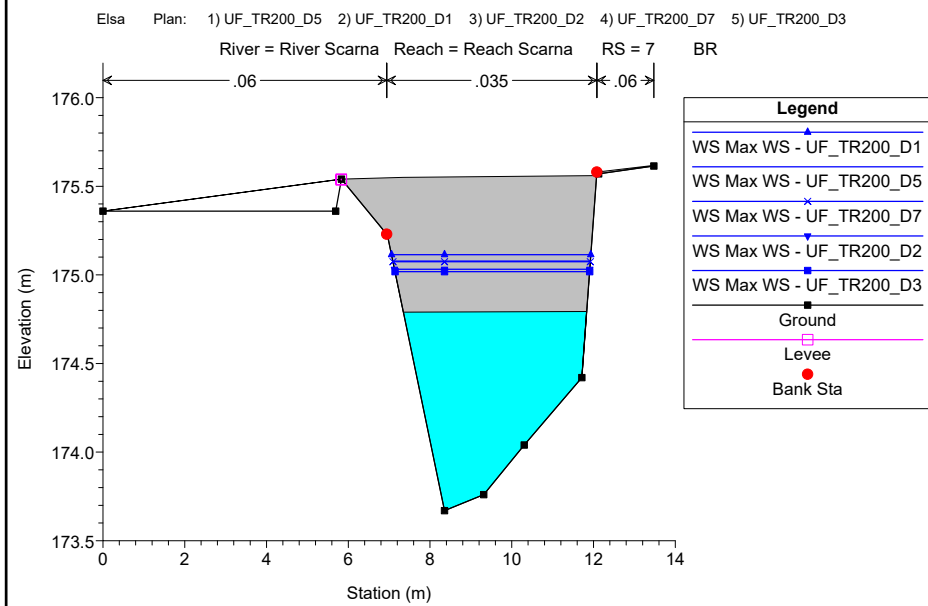
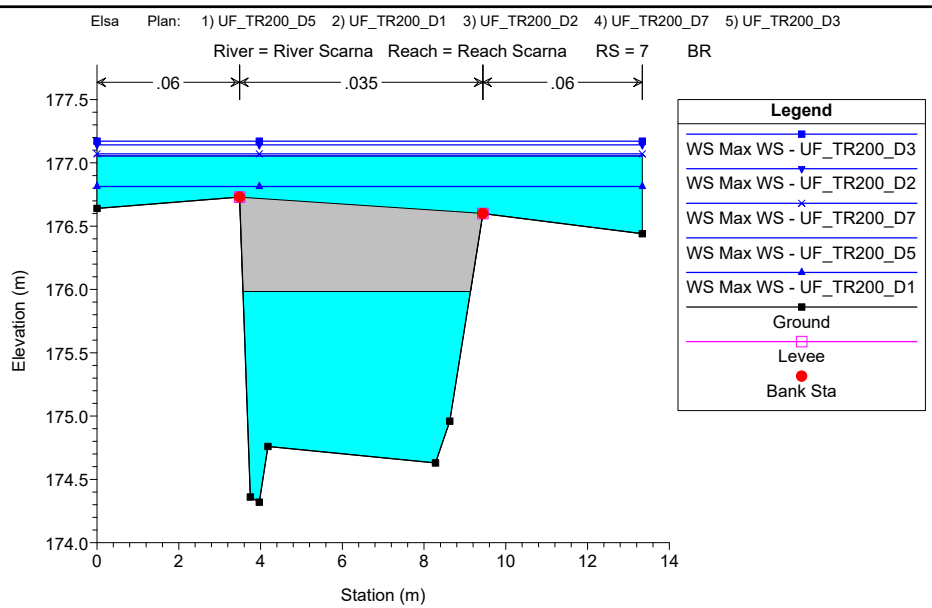
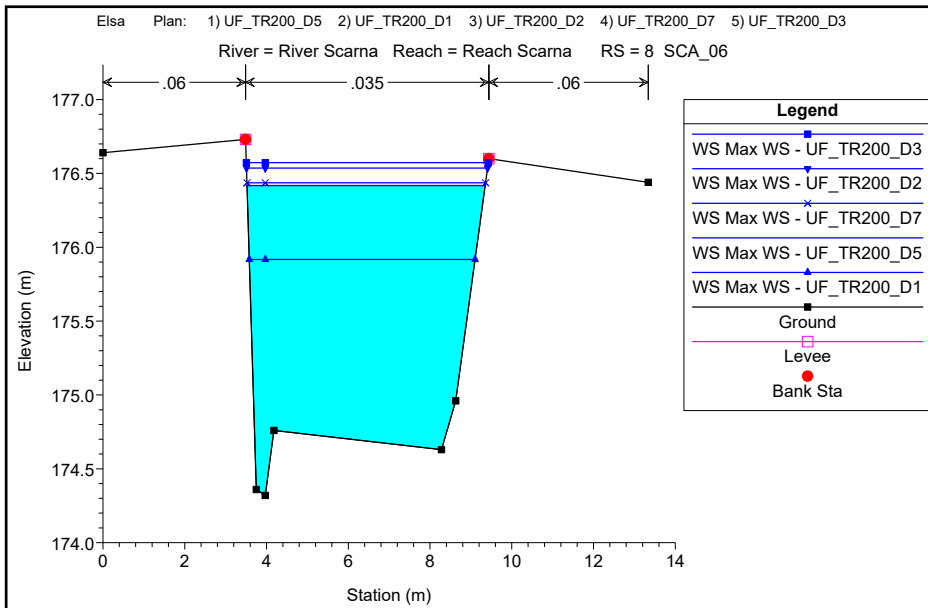


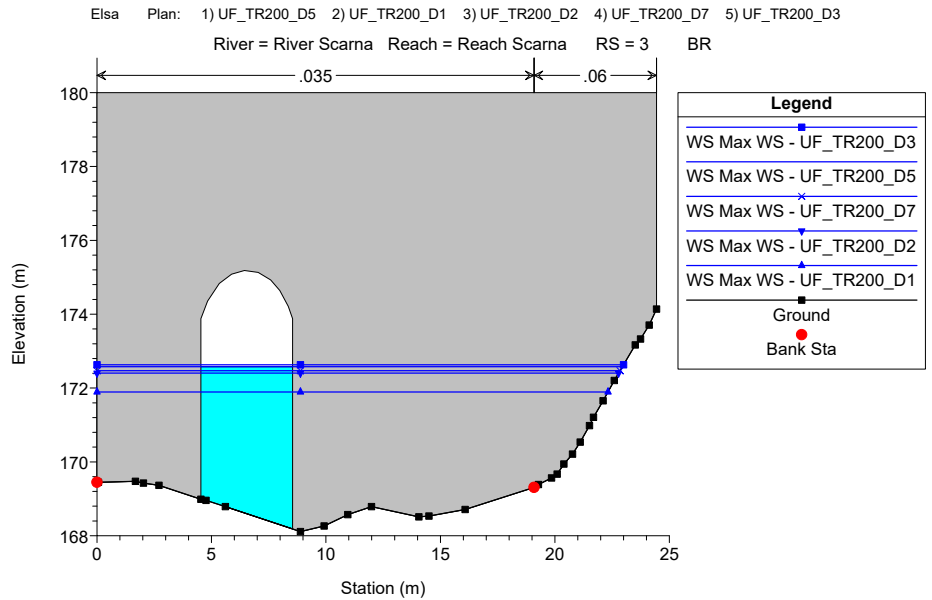
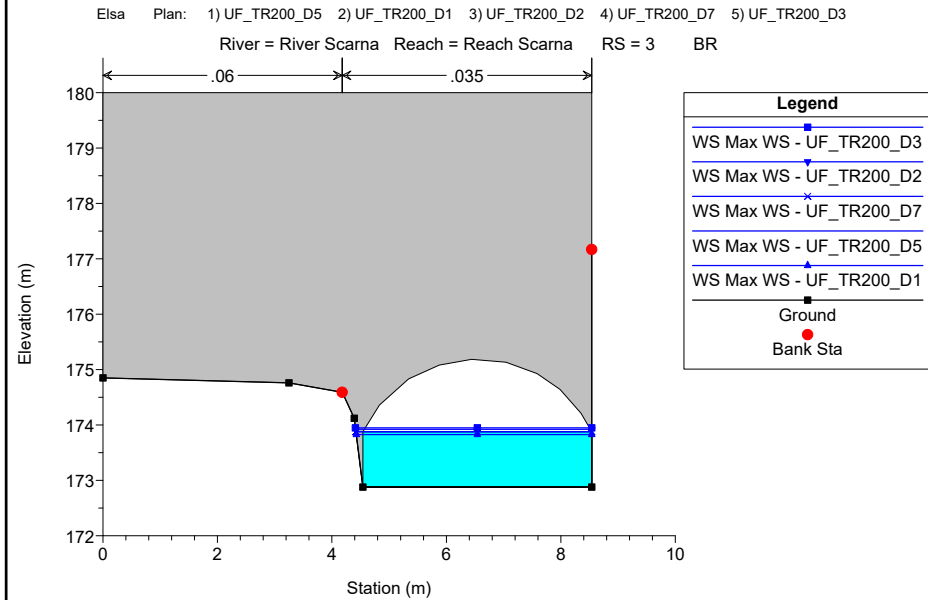
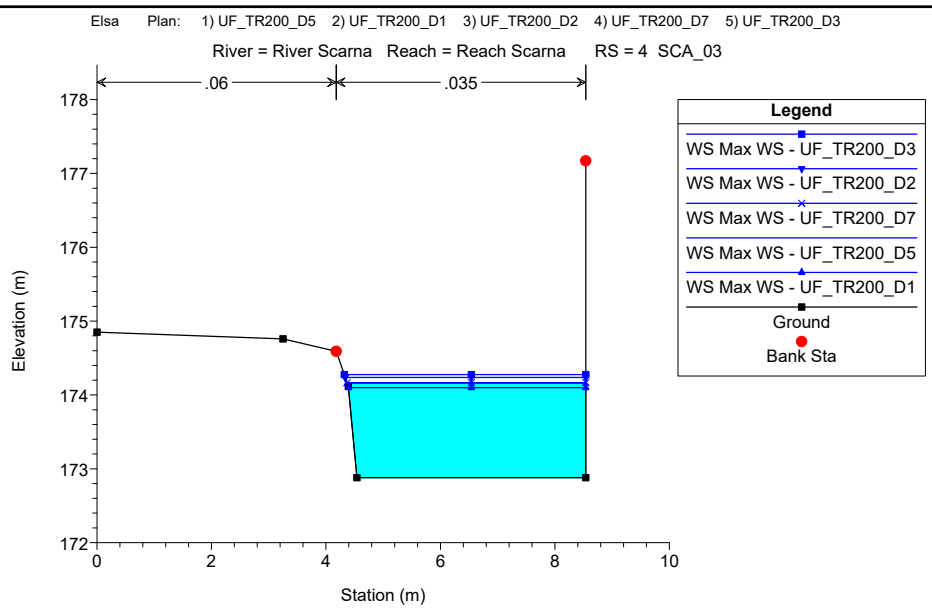
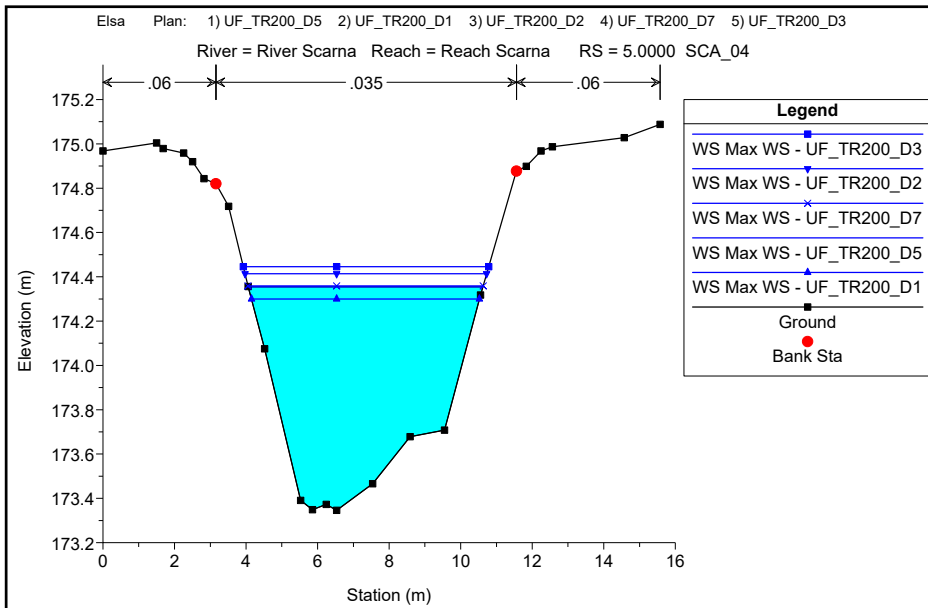


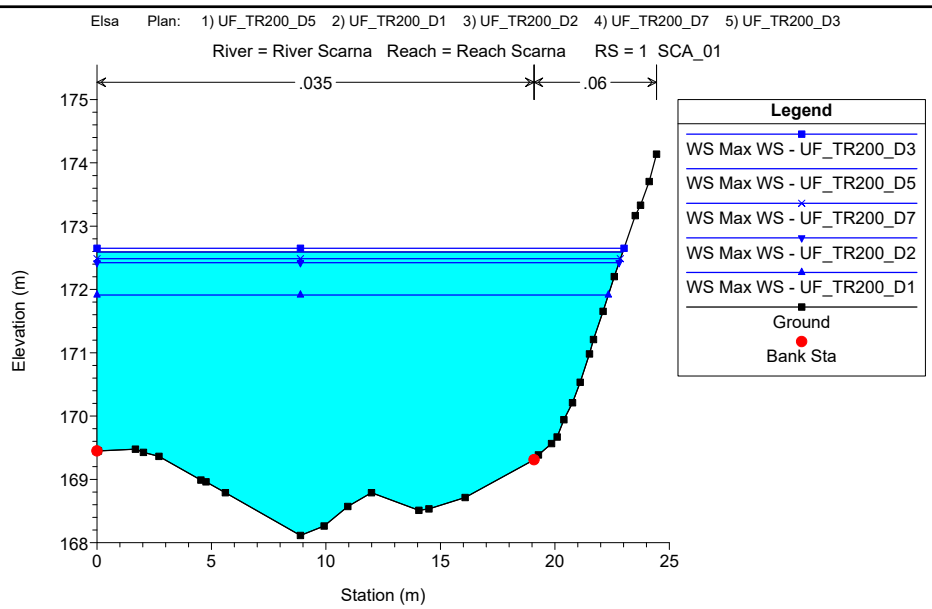
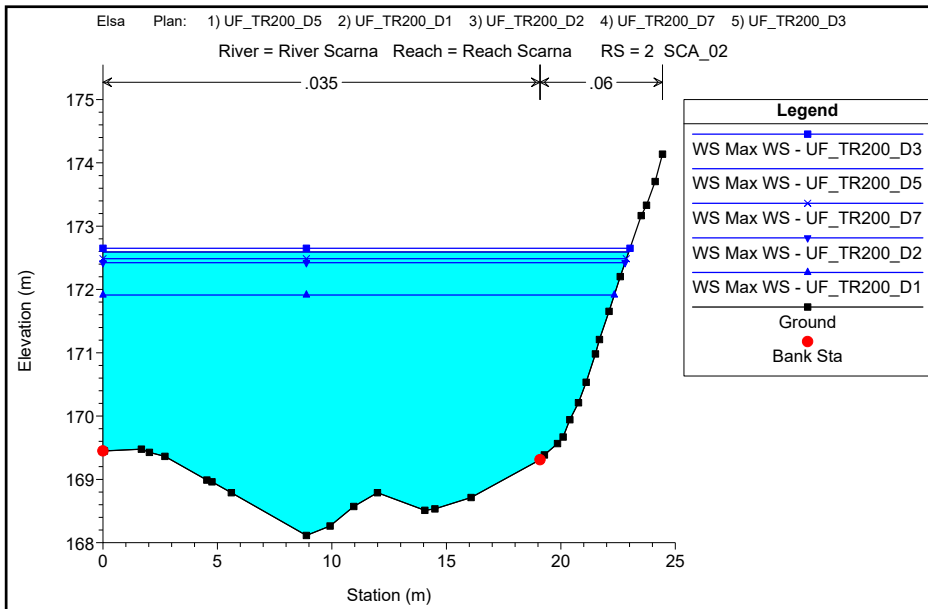












ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SCARNA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Reach Scama	2	Max WS	UF_TR30_D3	9.78	168.11	171.66		171.66	0.000011		0.18	0.06	58.70	22.11	0.03
Reach Scama	1	Max WS	UF_TR30_D1	8.49	168.11	171.10		171.10	0.000017		0.19	0.06	46.51	21.60	0.04
Reach Scama	1	Max WS	UF_TR30_D5	8.81	168.11	171.58		171.58	0.000010		0.16	0.05	57.02	22.04	0.03
Reach Scama	1	Max WS	UF_TR30_D7	8.62	168.11	171.58		171.58	0.000009		0.16	0.05	57.02	22.04	0.03
Reach Scama	1	Max WS	UF_TR30_D2	9.48	168.11	171.51		171.51	0.000012		0.18	0.06	55.35	21.97	0.03
Reach Scama	1	Max WS	UF_TR30_D3	9.78	168.11	171.66		171.66	0.000011		0.18	0.06	58.70	22.11	0.03

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SCARNA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach Scama	2	Max WS	UF_TR200_D3	13.11	168.11	172.65		172.65	0.000008		0.17	0.06	81.09	23.02	0.03
Reach Scama	1	Max WS	UF_TR200_D5	12.42	168.11	172.59		172.59	0.000007		0.17	0.06	79.76	22.96	0.03
Reach Scama	1	Max WS	UF_TR200_D1	10.95	168.11	171.91		171.91	0.000010		0.18	0.06	64.34	22.34	0.03
Reach Scama	1	Max WS	UF_TR200_D2	13.18	168.11	172.42		172.42	0.000009		0.18	0.06	75.89	22.80	0.03
Reach Scama	1	Max WS	UF_TR200_D7	12.50	168.11	172.49		172.49	0.000008		0.17	0.06	77.32	22.86	0.03
Reach Scama	1	Max WS	UF_TR200_D3	13.11	168.11	172.65		172.65	0.000008		0.17	0.06	81.09	23.02	0.03

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SENNA

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SENNA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

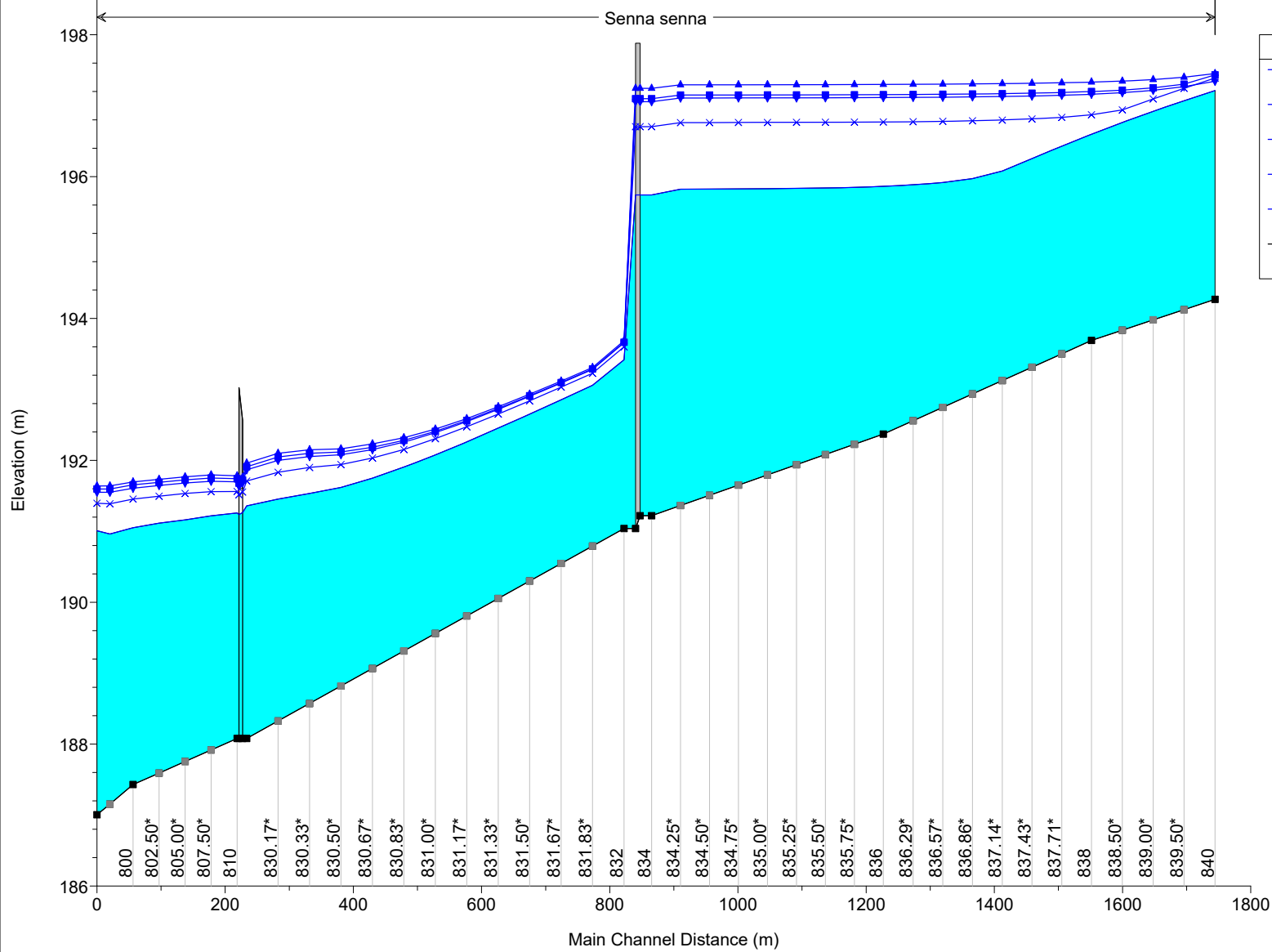
Profilo longitudinale

Elsa Plan: 1) UF_TR30_D1 2) UF_TR30_D5 3) UF_TR30_D7 4) UF_TR30_D2 5) UF_TR30_D3

Senna senna

Legend

- WS Max WS - UF_TR30_D5
- WS Max WS - UF_TR30_D3
- WS Max WS - UF_TR30_D7
- WS Max WS - UF_TR30_D2
- WS Max WS - UF_TR30_D1
- Ground



ALLEGATI

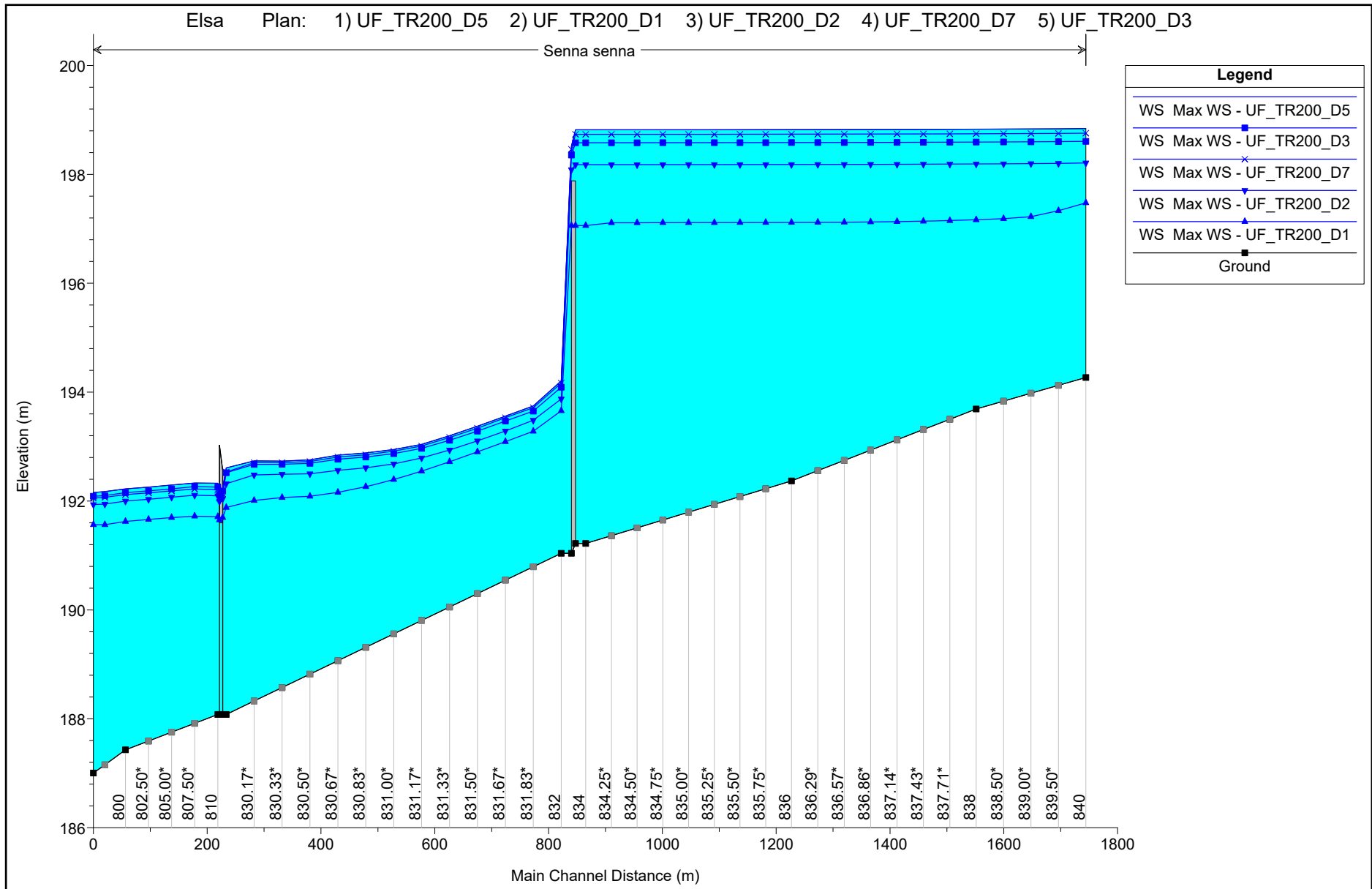
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SENNA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

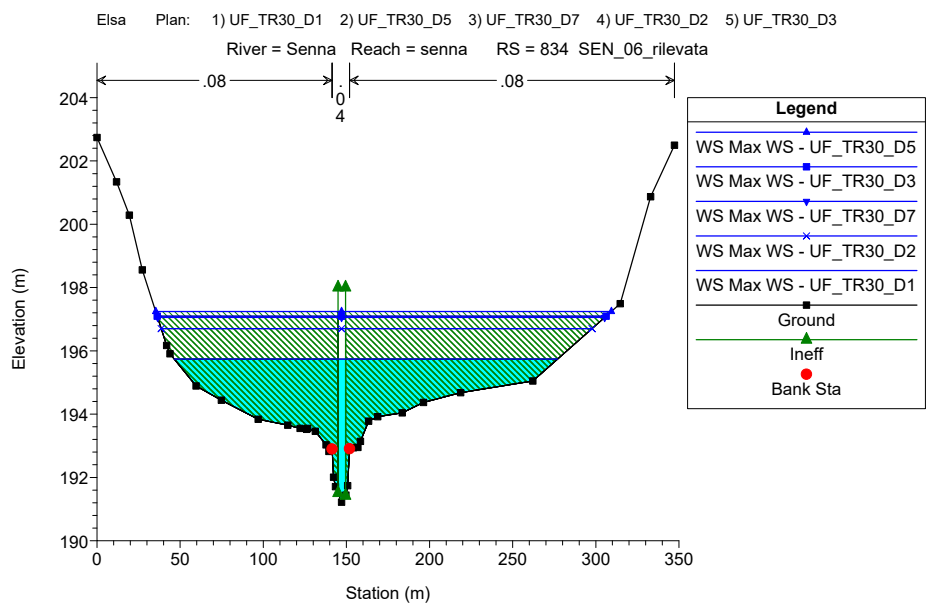
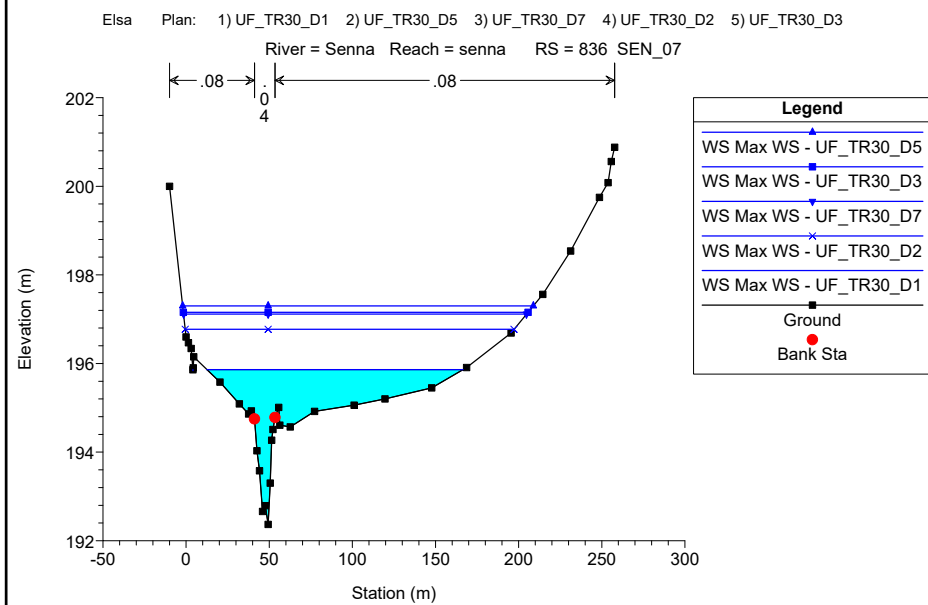
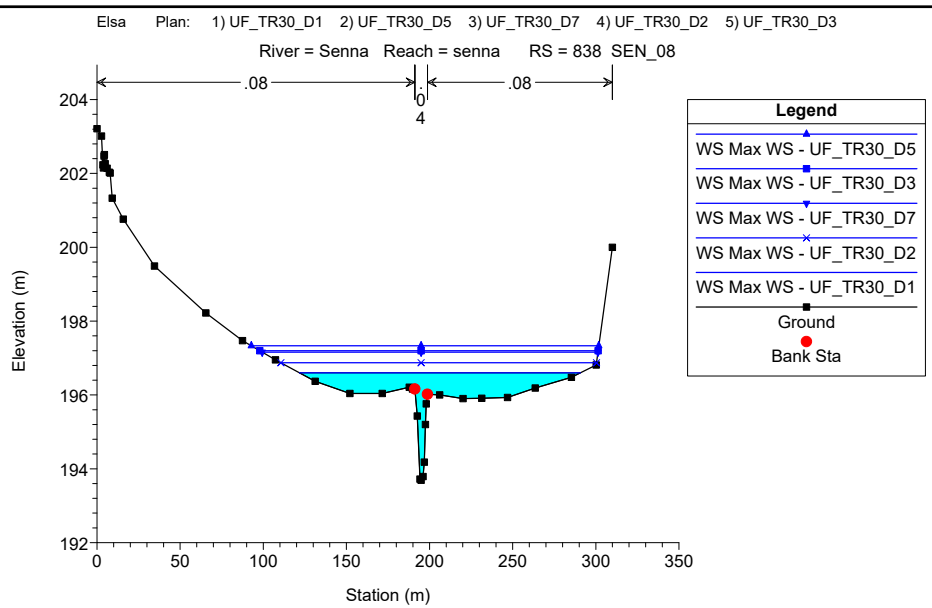
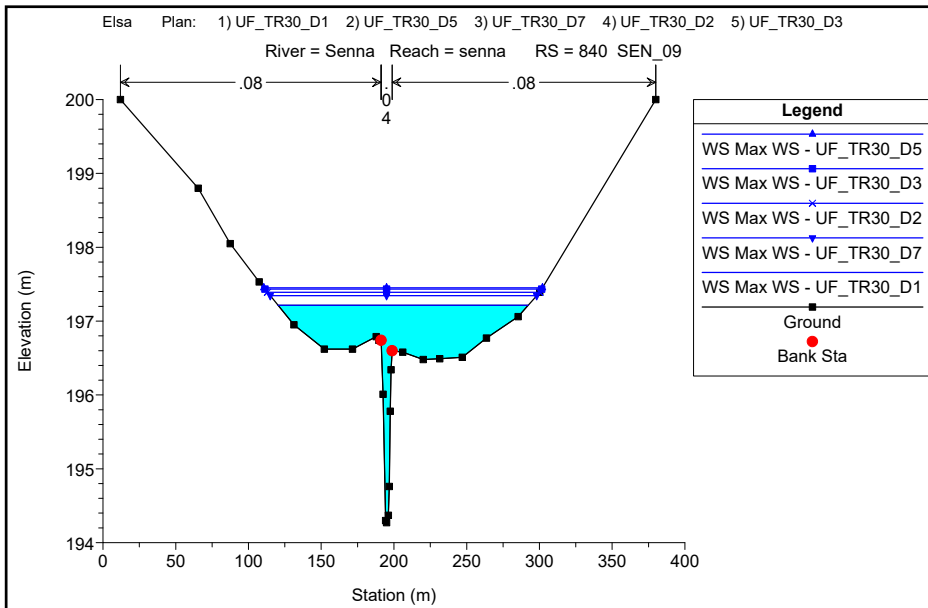
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

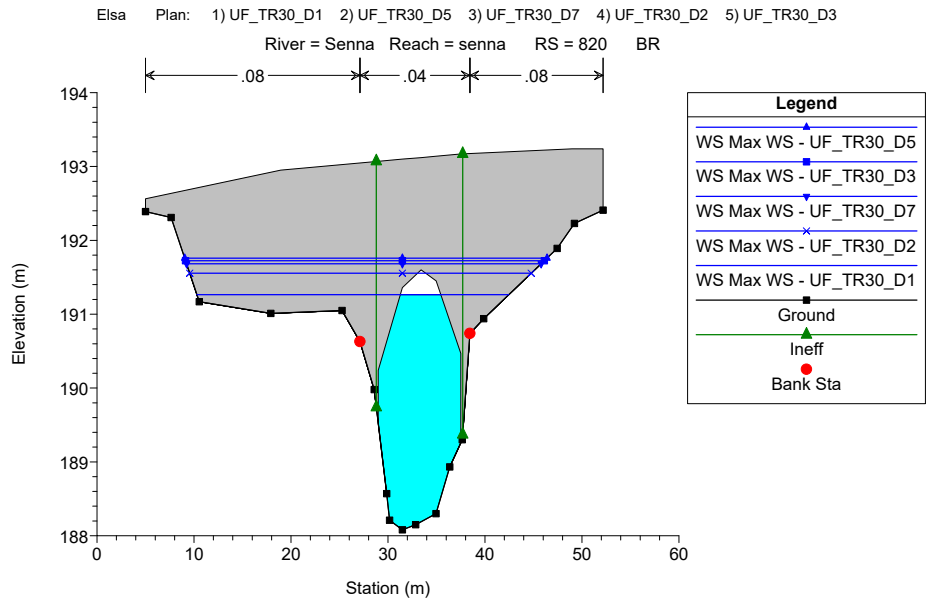
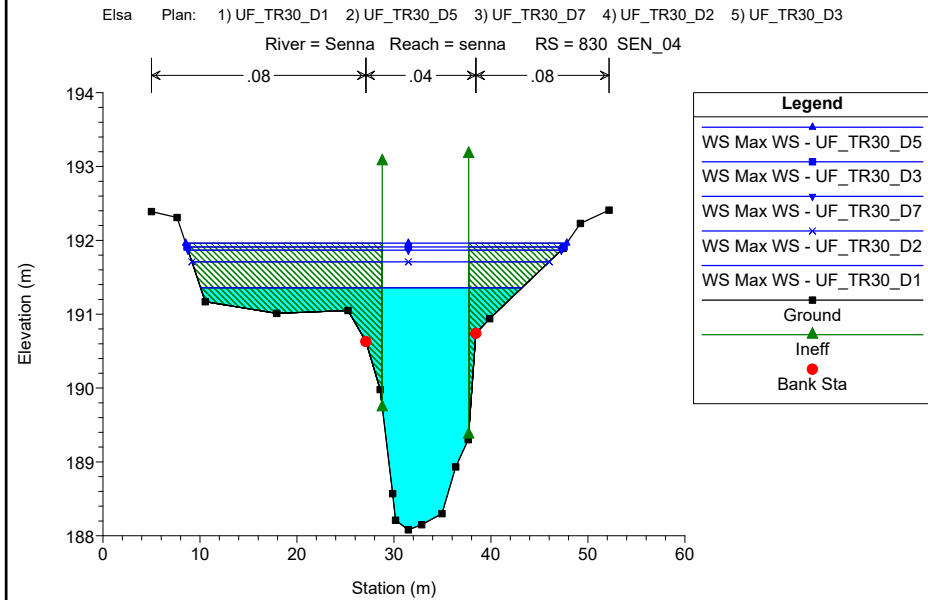
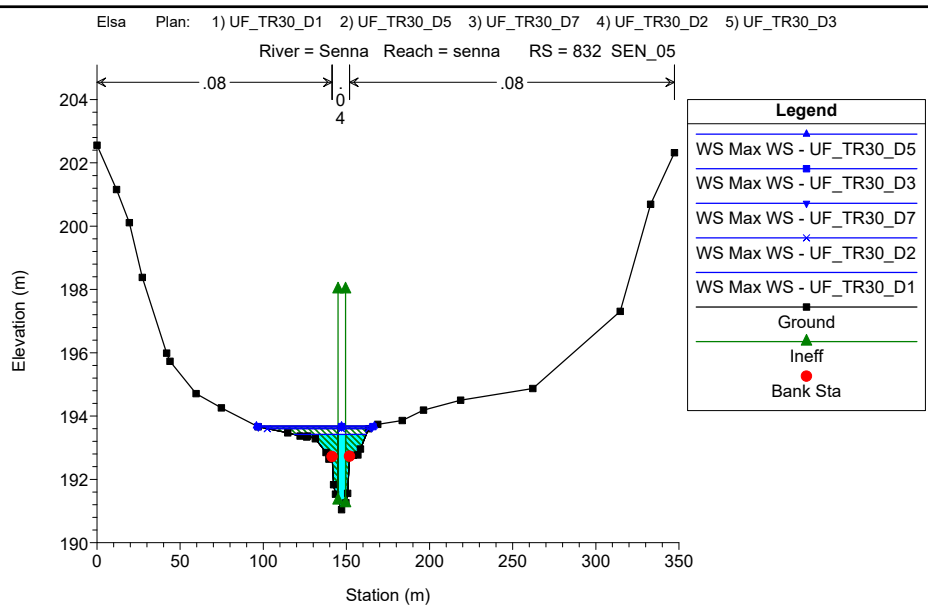
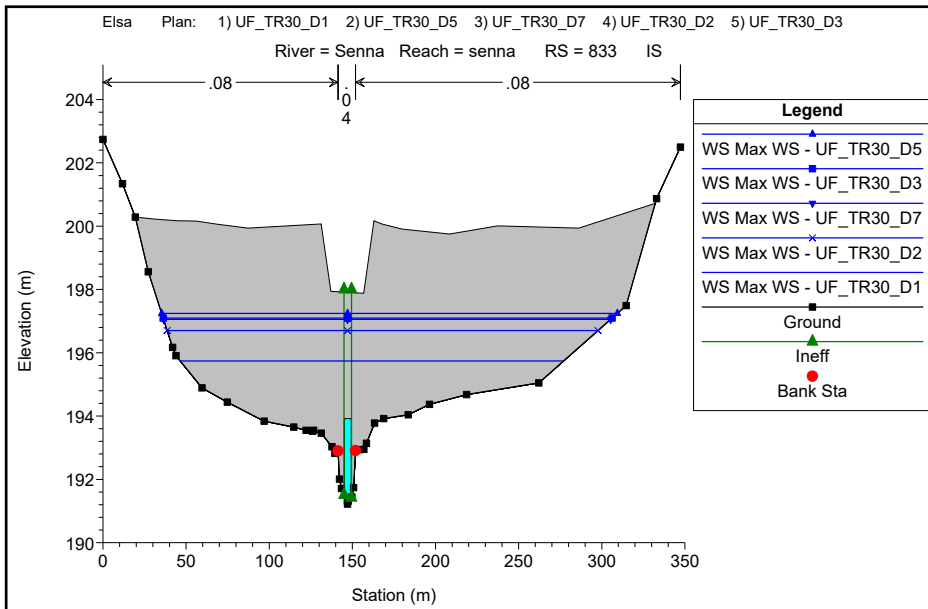
TORRENTE SENNA

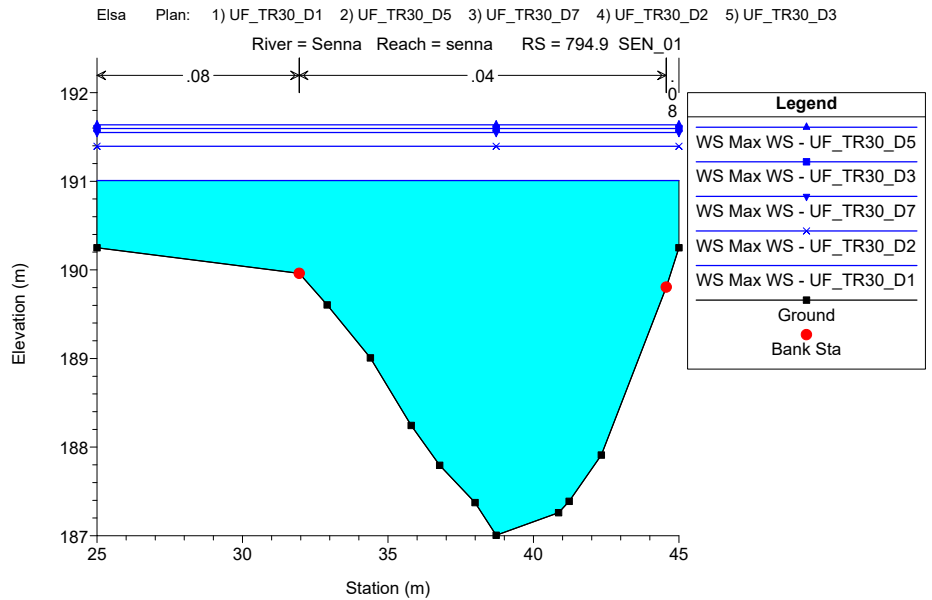
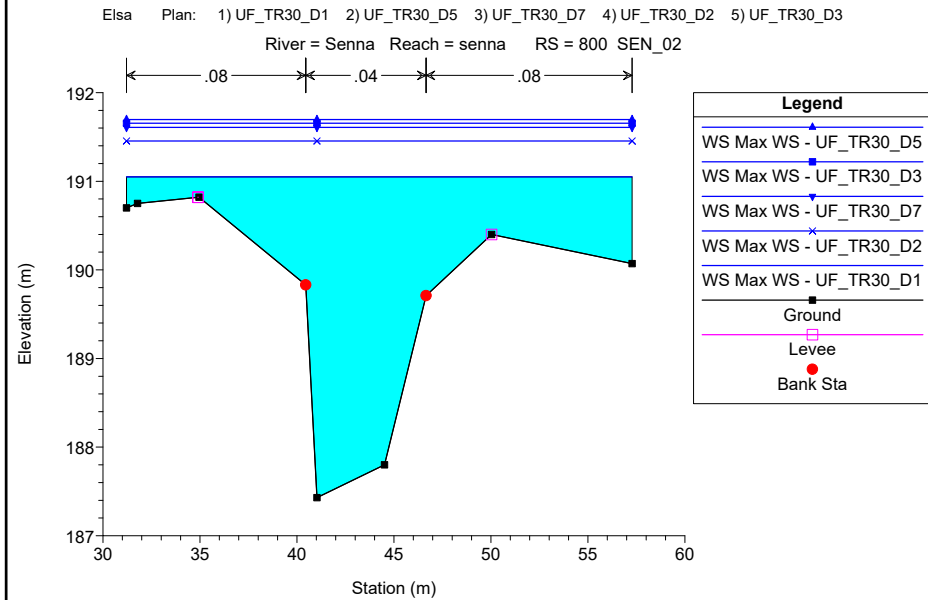
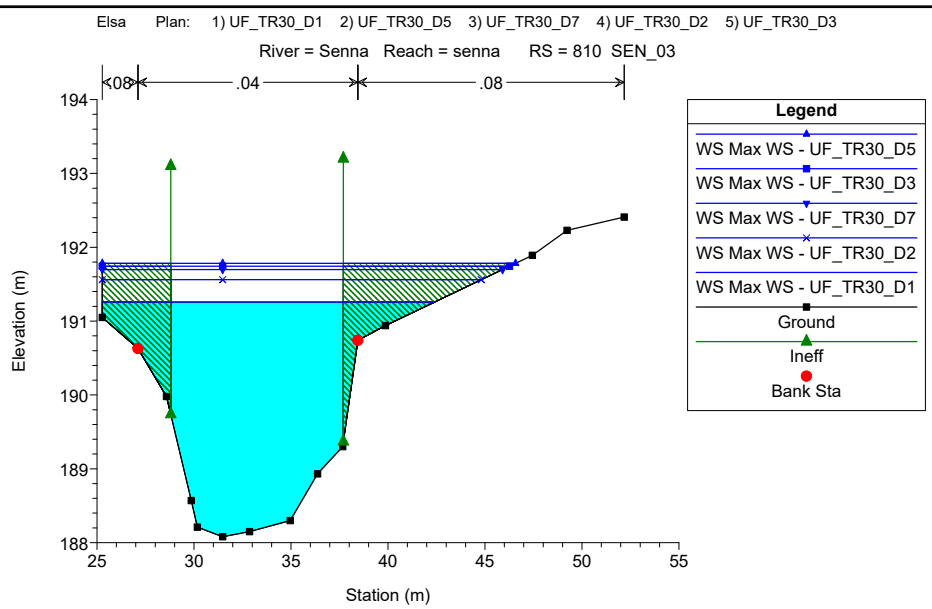
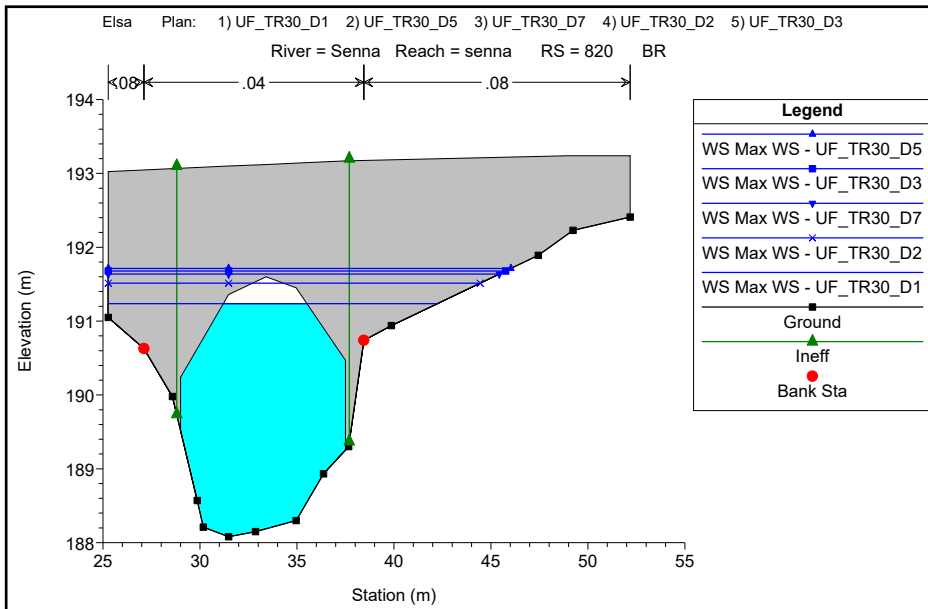
MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

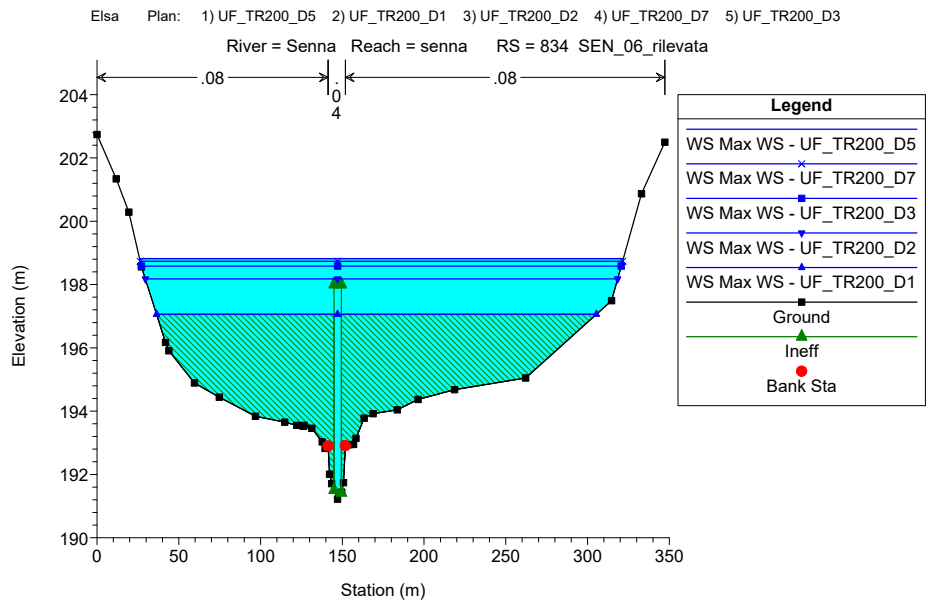
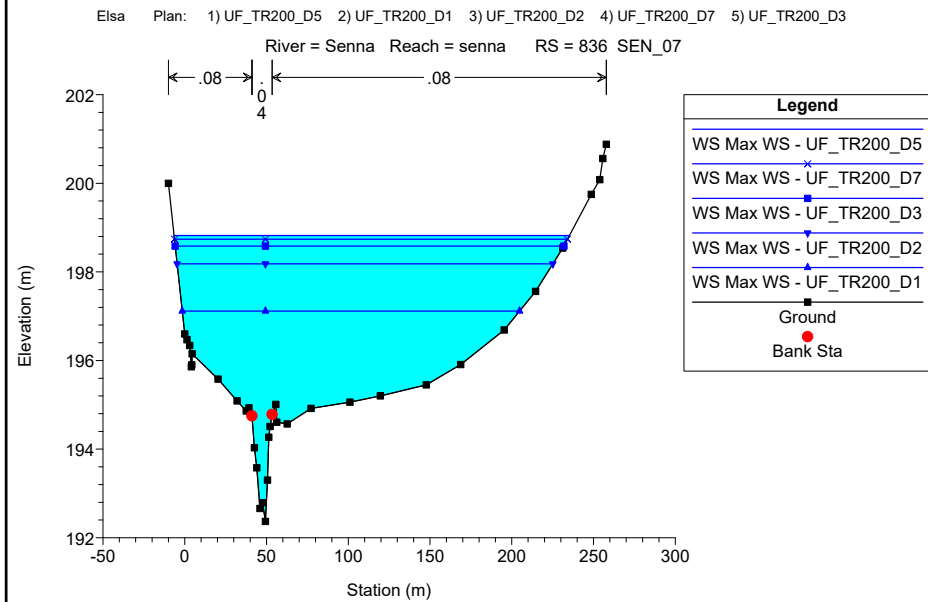
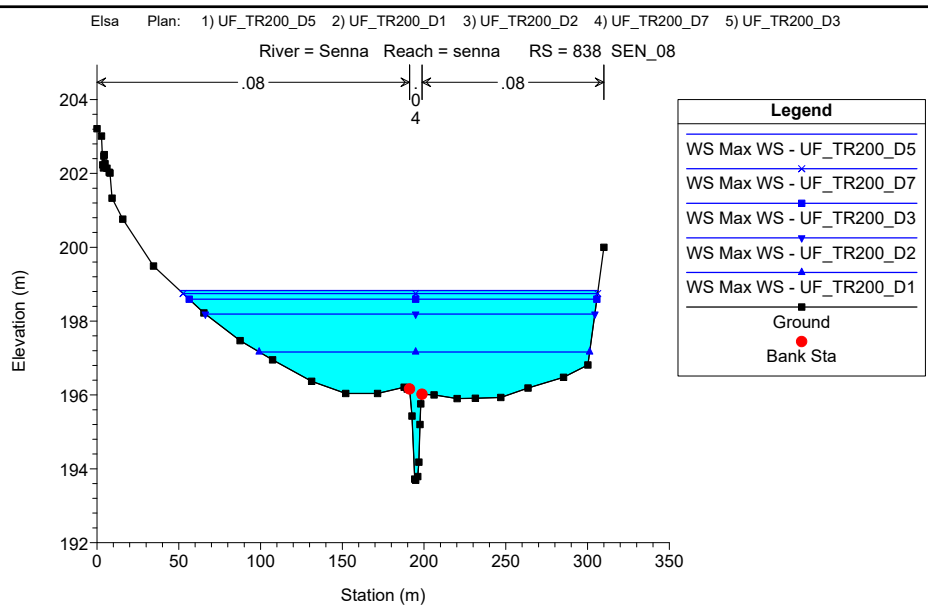
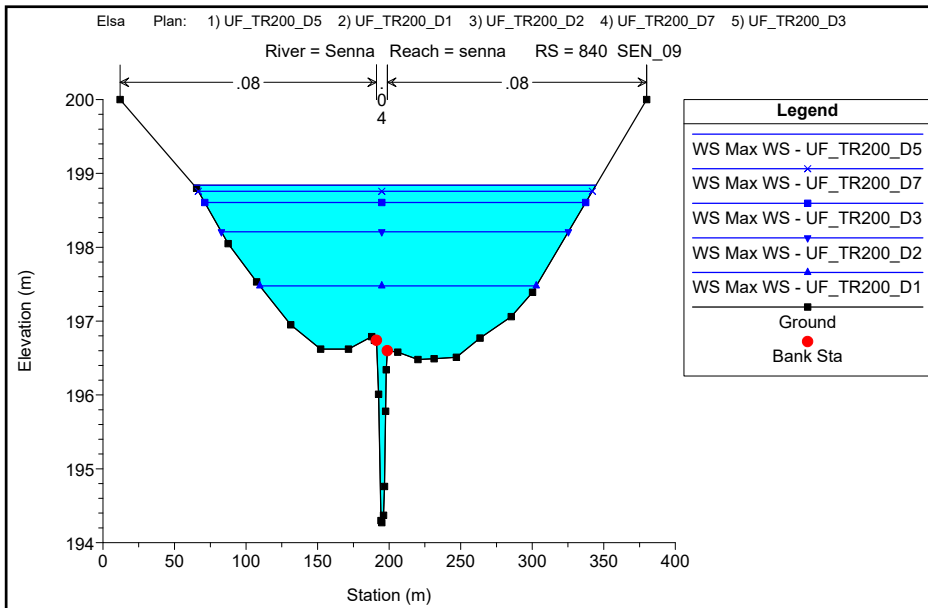
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

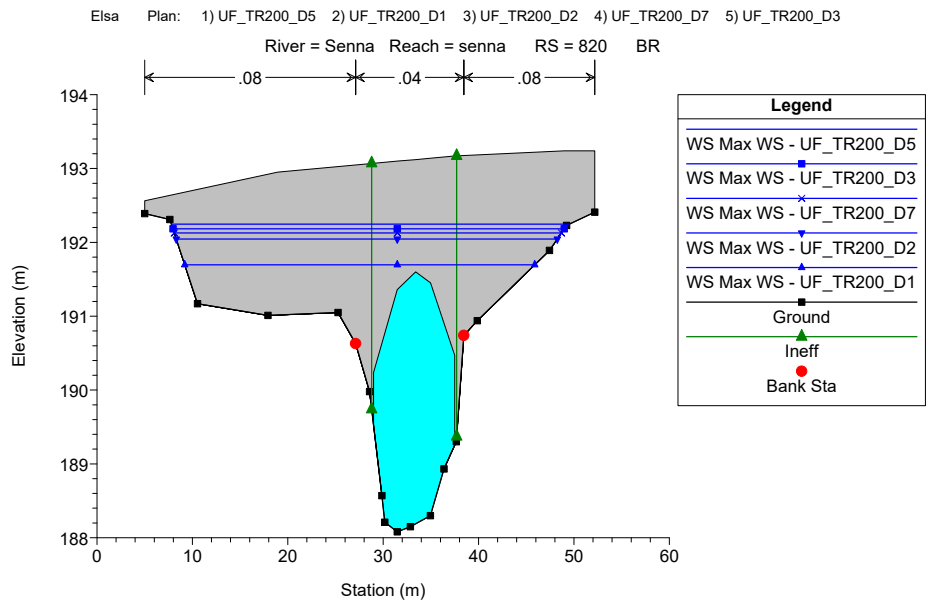
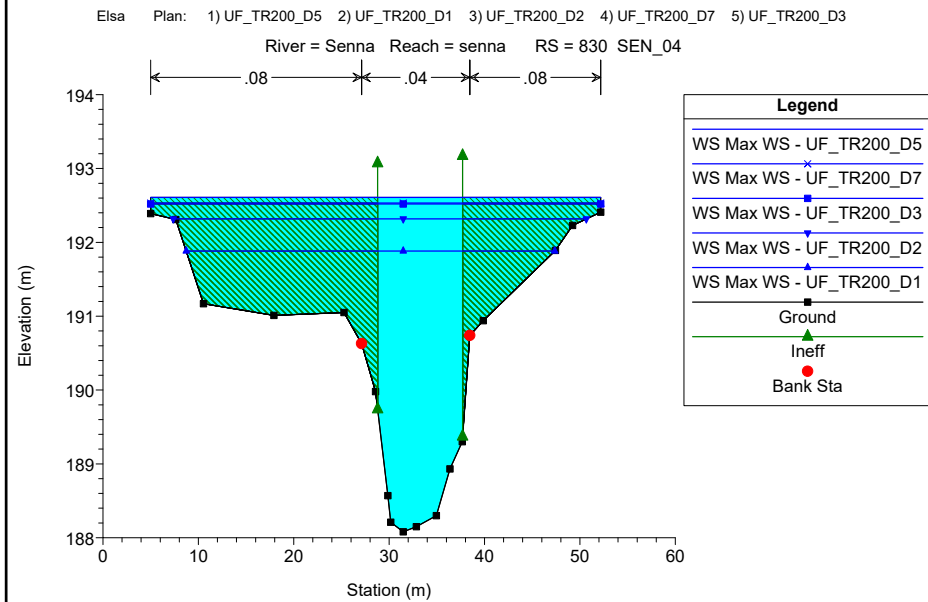
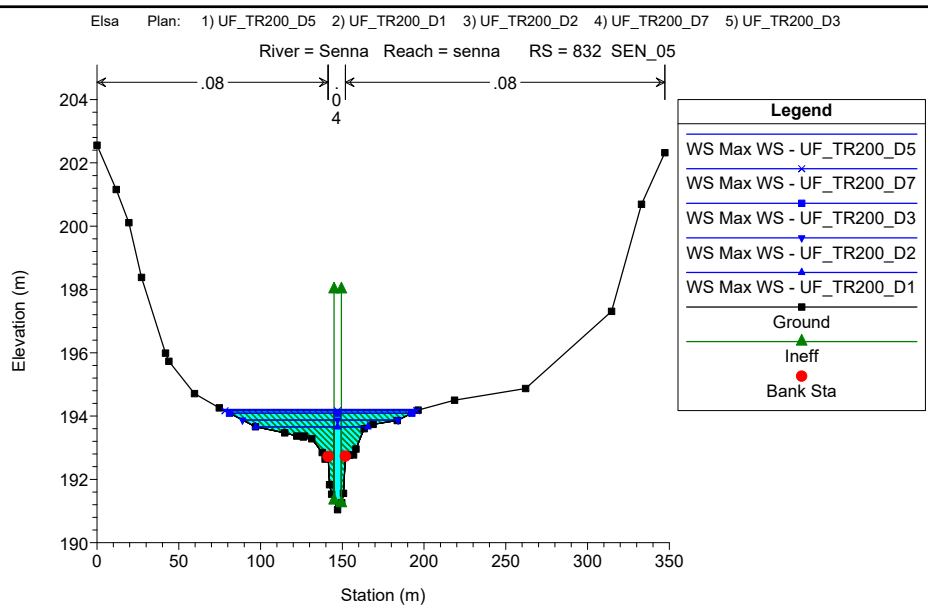
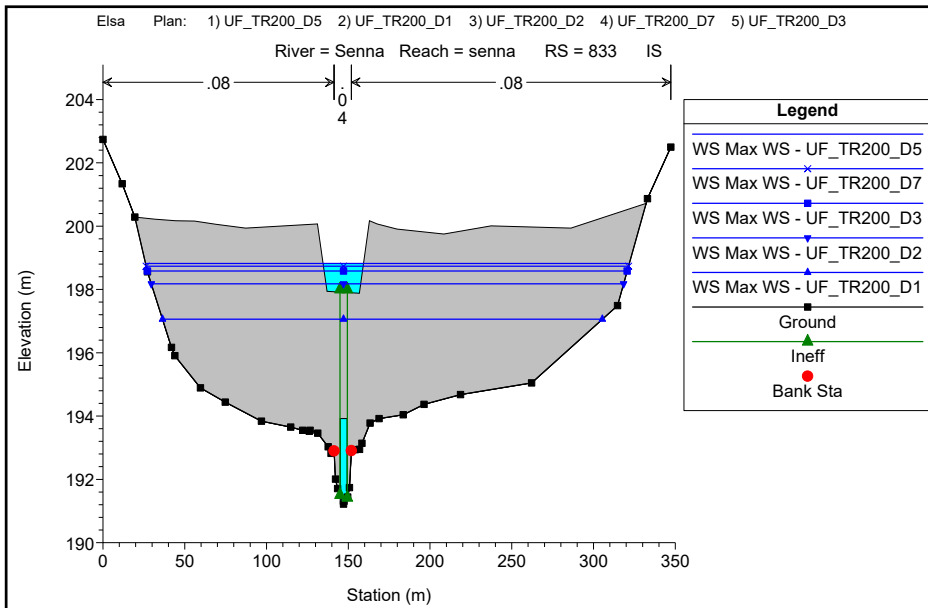
TORRENTE SENNA

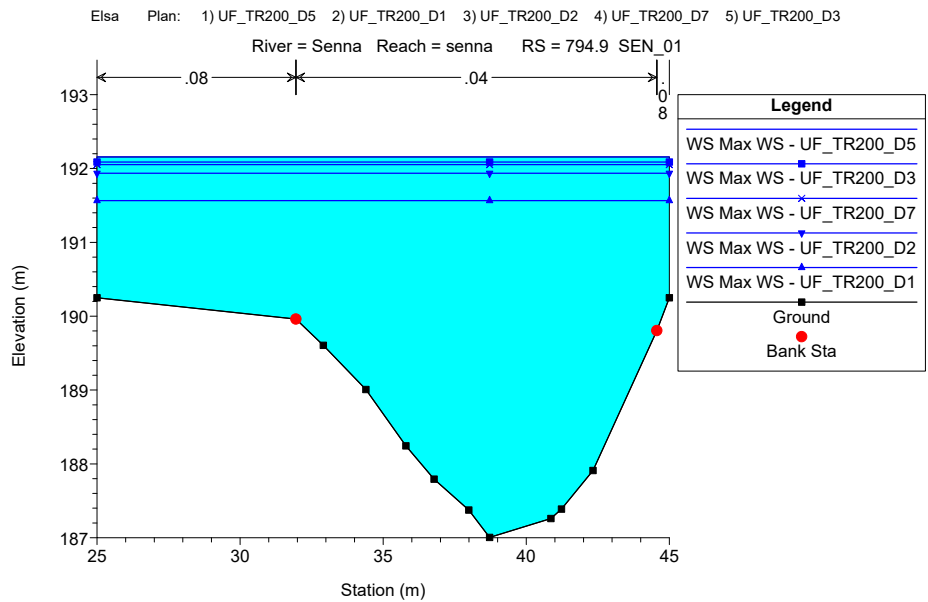
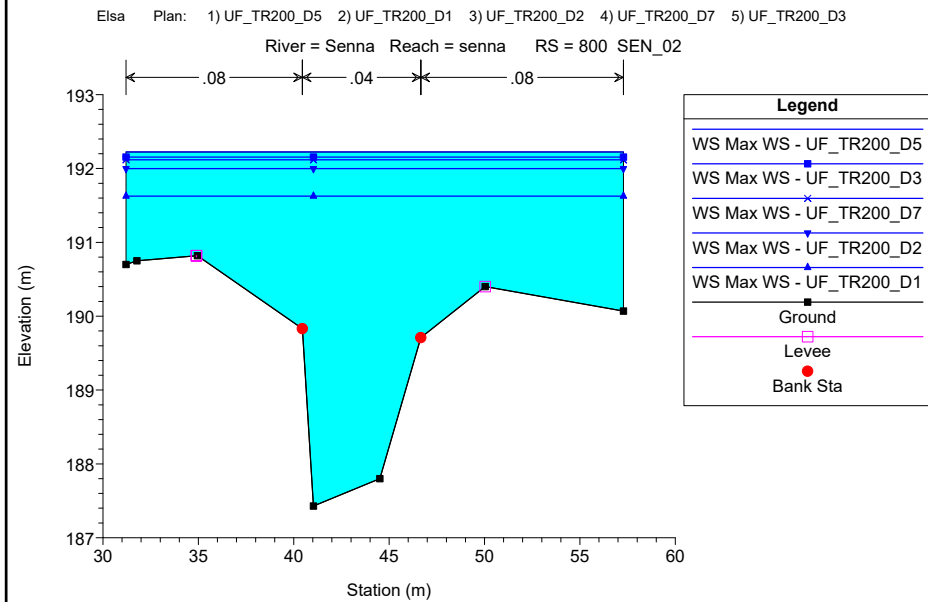
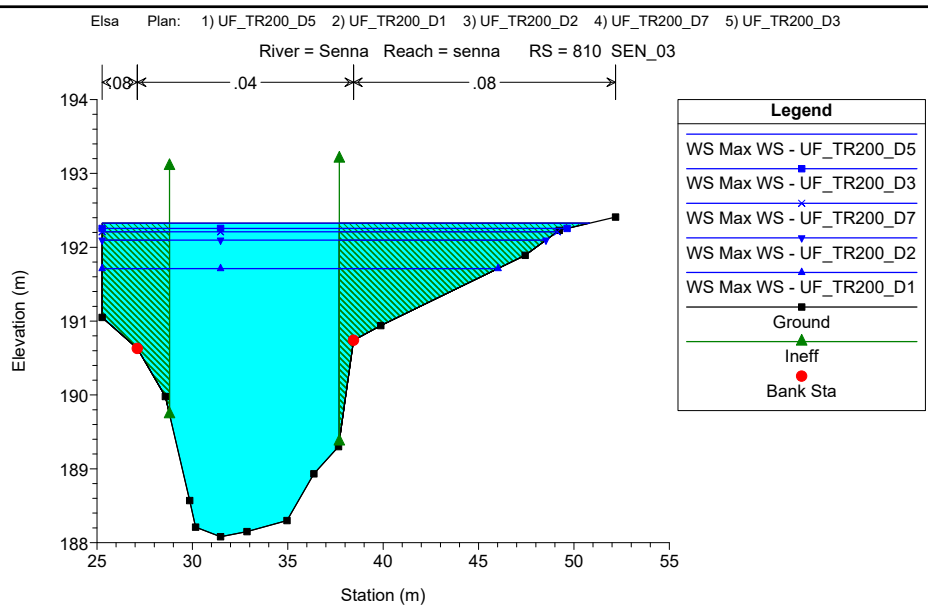
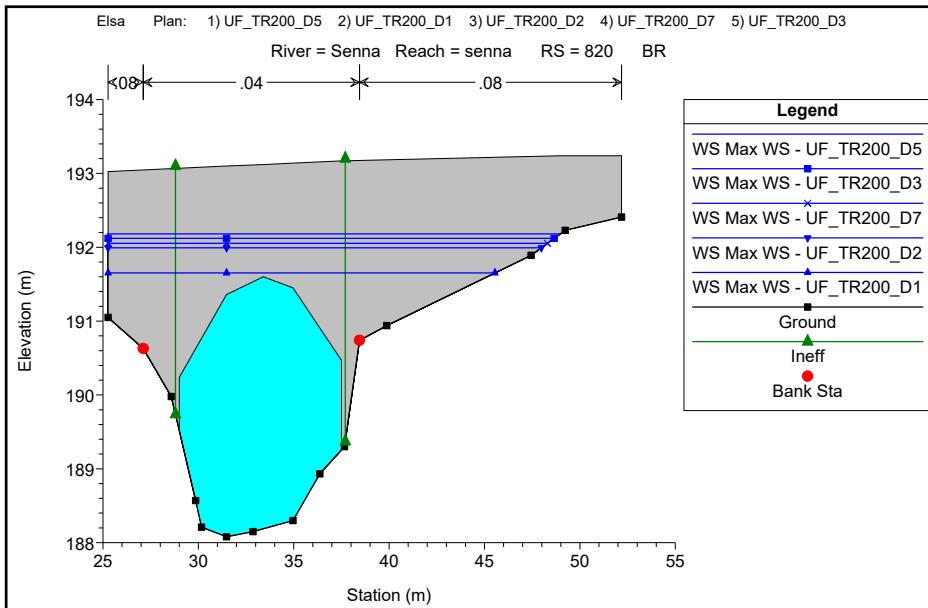
MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SENNA

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

HEC-RAS River: Senna Reach: senna Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
senna	840	Max WS	UF_TR30_D1	62.79	194.27	197.21		197.29	0.003137	0.41	1.85	0.46	96.13	171.85	0.43
senna	840	Max WS	UF_TR30_D5	67.93	194.27	197.45		197.49	0.001482	0.35	1.38	0.38	139.45	191.49	0.30
senna	840	Max WS	UF_TR30_D7	63.99	194.27	197.34		197.39	0.001942	0.37	1.52	0.40	119.34	183.13	0.34
senna	840	Max WS	UF_TR30_D2	86.93	194.27	197.39		197.47	0.003025	0.48	1.93	0.52	127.86	187.09	0.43
senna	840	Max WS	UF_TR30_D3	93.42	194.27	197.43		197.51	0.002978	0.49	1.94	0.54	136.19	190.26	0.43
senna	838	Max WS	UF_TR30_D1	62.60	193.69	196.60		196.69	0.003605	0.42	1.96	0.48	90.31	168.90	0.46
senna	838	Max WS	UF_TR30_D5	57.67	193.69	197.33		197.34	0.000263	0.19	0.66	0.22	231.22	209.03	0.13
senna	838	Max WS	UF_TR30_D7	56.41	193.69	197.16		197.17	0.000399	0.22	0.78	0.25	196.14	201.98	0.16
senna	838	Max WS	UF_TR30_D2	57.78	193.69	196.87		196.90	0.001064	0.30	1.17	0.33	139.40	189.79	0.26
senna	838	Max WS	UF_TR30_D3	57.36	193.69	197.20		197.21	0.000371	0.21	0.76	0.25	203.81	203.54	0.15
senna	836	Max WS	UF_TR30_D1	45.08	192.37	195.86		195.89	0.000437	0.18	0.87	0.21	125.63	154.05	0.18
senna	836	Max WS	UF_TR30_D5	56.45	192.37	197.30		197.30	0.000039	0.11	0.36	0.11	396.10	210.85	0.06
senna	836	Max WS	UF_TR30_D7	55.14	192.37	197.11		197.12	0.000049	0.11	0.39	0.12	357.64	206.25	0.07
senna	836	Max WS	UF_TR30_D2	52.61	192.37	196.77		196.78	0.000081	0.13	0.46	0.14	288.26	197.70	0.08
senna	836	Max WS	UF_TR30_D3	55.45	192.37	197.16		197.16	0.000047	0.11	0.38	0.12	366.15	207.28	0.06
senna	834	Max WS	UF_TR30_D1	44.63	191.22	195.74	193.50	196.00	0.001138		2.25		19.79	230.41	0.34
senna	834	Max WS	UF_TR30_D5	56.33	191.22	197.24	193.86	197.47	0.000680		2.12		26.56	274.04	0.28
senna	834	Max WS	UF_TR30_D7	55.00	191.22	197.06	193.83	197.29	0.000722		2.14		25.71	268.82	0.29
senna	834	Max WS	UF_TR30_D2	52.42	191.22	196.70	193.75	196.94	0.000812		2.17		24.13	258.05	0.30
senna	834	Max WS	UF_TR30_D3	55.30	191.22	197.10	193.83	197.33	0.000713		2.13		25.90	269.99	0.28
senna	833														
senna															
senna	832	Max WS	UF_TR30_D1	44.62	191.04	193.42		194.40	0.010534		4.40		10.15	43.31	0.93
senna	832	Max WS	UF_TR30_D5	56.33	191.04	193.69	193.68	194.94	0.011514		4.96		11.37	70.92	1.00
senna	832	Max WS	UF_TR30_D7	55.00	191.04	193.66	193.64	194.88	0.011417		4.90		11.23	68.58	0.99
senna	832	Max WS	UF_TR30_D2	52.42	191.04	193.60	193.57	194.76	0.011205		4.78		10.98	60.95	0.98
senna	832	Max WS	UF_TR30_D3	55.30	191.04	193.67	193.65	194.89	0.011430		4.91		11.27	69.22	0.99
senna	831.16														
senna															
senna	830.49														
senna															
senna	830	Max WS	UF_TR30_D1	44.07	188.08	191.36	189.87	191.51	0.001363		1.74		25.37	33.14	0.33
senna	830	Max WS	UF_TR30_D5	55.13	188.08	191.96	190.09	192.13	0.001125		1.79		30.73	39.29	0.31
senna	830	Max WS	UF_TR30_D7	54.18	188.08	191.87	190.07	192.04	0.001191		1.81		29.90	38.50	0.32
senna	830	Max WS	UF_TR30_D2	51.78	188.08	191.71	190.02	191.88	0.001278		1.82		28.49	36.83	0.32
senna	830	Max WS	UF_TR30_D3	54.28	188.08	191.91	190.07	192.07	0.001146		1.79		30.28	38.89	0.31
senna	820														
senna															
senna	810	Max WS	UF_TR30_D1	44.01	188.08	191.26		191.42	0.001531		1.80		24.48	17.14	0.35
senna	810	Max WS	UF_TR30_D5	54.45	188.08	191.78		191.96	0.001311		1.87		29.14	21.31	0.33
senna	810	Max WS	UF_TR30_D7	53.60	188.08	191.70		191.88	0.001386		1.89		28.38	20.64	0.34
senna	810	Max WS	UF_TR30_D2	51.57	188.08	191.56		191.74	0.001486		1.90		27.16	19.54	0.35
senna	810	Max WS	UF_TR30_D3	52.95	188.08	191.74		191.92	0.001291		1.84		28.79	21.00	0.33
senna	800	Max WS	UF_TR30_D1	38.34	187.43	191.05		191.19	0.001890	0.35	1.76	0.47	32.56	26.07	0.33
senna	800	Max WS	UF_TR30_D5	46.42	187.43	191.70		191.78	0.001073	0.43	1.52	0.49	49.42	26.07	0.26
senna	800	Max WS	UF_TR30_D7	44.77	187.43	191.61		191.70	0.001122	0.42	1.53	0.48	47.10	26.07	0.26
senna	800	Max WS	UF_TR30_D2	42.92	187.43	191.45		191.55	0.001276	0.41	1.58	0.48	43.09	26.07	0.28
senna	800	Max WS	UF_TR30_D3	45.30	187.43	191.66		191.74	0.001077	0.42	1.51	0.48	48.36	26.07	0.26
senna	794.9	Max WS	UF_TR30_D1	40.62	187.01	191.01		191.07	0.000584	0.26	1.11	0.14	41.77	20.00	0.21
senna	794.9	Max WS	UF_TR30_D5	53.10	187.01	191.64		191.70	0.000480	0.32	1.15	0.14	54.37	20.00	0.20
senna	794.9	Max WS	UF_TR30_D7	51.21	187.01	191.55		191.61	0.000489	0.32	1.14	0.14	52.63	20.00	0.20
senna	794.9	Max WS	UF_TR30_D2	48.79	187.01	191.40		191.46	0.000527	0.31	1.15	0.14	49.52	20.00	0.21
senna	794.9	Max WS	UF_TR30_D3	52.03	187.01	191.60		191.66	0.000482	0.32	1.14	0.14	53.53	20.00	0.20

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

TORRENTE SENNA

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

HEC-RAS River: Senna Reach: senna Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
senna	840	Max WS	UF_TR200_D5	89.02	194.27	198.84		198.84	0.000098	0.16	0.50	0.18	469.45	280.97	0.08
senna	840	Max WS	UF_TR200_D1	101.50	194.27	197.48		197.55	0.000305	0.51	1.99	0.56	144.26	193.28	0.43
senna	840	Max WS	UF_TR200_D2	67.54	194.27	198.21		198.21	0.000185	0.18	0.60	0.20	304.35	242.44	0.11
senna	840	Max WS	UF_TR200_D7	85.84	194.27	198.76		198.76	0.000105	0.17	0.50	0.18	446.32	275.36	0.09
senna	840	Max WS	UF_TR200_D3	81.59	194.27	198.61		198.61	0.000123	0.17	0.53	0.18	405.13	266.23	0.09
senna	838	Max WS	UF_TR200_D5	88.38	193.69	198.83		198.83	0.000043	0.13	0.36	0.15	581.46	255.78	0.06
senna	838	Max WS	UF_TR200_D1	57.32	193.69	197.16		197.17	0.000408	0.22	0.79	0.25	196.82	202.12	0.16
senna	838	Max WS	UF_TR200_D2	65.64	193.69	198.19		198.19	0.000059	0.13	0.38	0.15	423.64	238.16	0.07
senna	838	Max WS	UF_TR200_D7	85.36	193.69	198.75		198.75	0.000044	0.13	0.36	0.15	560.12	253.49	0.06
senna	838	Max WS	UF_TR200_D3	80.36	193.69	198.59		198.59	0.000048	0.13	0.37	0.15	521.58	249.30	0.06
senna	836	Max WS	UF_TR200_D5	88.08	192.37	198.82		198.82	0.000016	0.10	0.29	0.10	742.03	241.81	0.04
senna	836	Max WS	UF_TR200_D1	55.10	192.37	197.12		197.12	0.000049	0.11	0.39	0.12	358.27	206.33	0.06
senna	836	Max WS	UF_TR200_D2	65.25	192.37	198.18		198.18	0.000017	0.09	0.27	0.09	590.90	229.76	0.04
senna	836	Max WS	UF_TR200_D7	85.07	192.37	198.74		198.74	0.000016	0.10	0.28	0.10	721.75	240.35	0.04
senna	836	Max WS	UF_TR200_D3	79.85	192.37	198.58		198.58	0.000017	0.10	0.28	0.10	685.03	237.69	0.04
senna	834	Max WS	UF_TR200_D5	88.02	191.22	198.82	194.73	198.82	0.000005	0.07	0.19	0.06	1185.84	295.77	0.02
senna	834	Max WS	UF_TR200_D1	55.02	191.22	197.06	193.82	197.29	0.000722		2.14		25.73	268.91	0.29
senna	834	Max WS	UF_TR200_D2	65.09	191.22	198.18	194.12	198.18	0.000004	0.06	0.17	0.05	998.50	288.78	0.02
senna	834	Max WS	UF_TR200_D7	84.94	191.22	198.73	194.66	198.73	0.000005	0.07	0.19	0.06	1160.99	294.93	0.02
senna	834	Max WS	UF_TR200_D3	79.72	191.22	198.58	194.52	198.58	0.000005	0.07	0.18	0.06	1115.81	293.41	0.02
senna	833		Inf Struct												
senna	832	Max WS	UF_TR200_D5	88.01	191.04	194.21	194.56	196.31	0.015077		6.42		13.70	120.83	1.18
senna	832	Max WS	UF_TR200_D1	55.02	191.04	193.66	193.64	194.88	0.011413		4.90		11.24	68.70	0.99
senna	832	Max WS	UF_TR200_D2	66.36	191.04	193.87	193.97	195.38	0.012596		5.44		12.21	95.16	1.05
senna	832	Max WS	UF_TR200_D7	84.94	191.04	194.17	194.48	196.18	0.014704		6.28		13.52	117.10	1.16
senna	832	Max WS	UF_TR200_D3	79.69	191.04	194.09	194.34	195.95	0.014077		6.05		13.18	111.46	1.13
senna	831.16		Lat Struct												
senna	830.49		Lat Struct												
senna	830	Max WS	UF_TR200_D5	65.11	188.08	192.61	190.27	192.77	0.000886		1.78		36.49	47.18	0.28
senna	830	Max WS	UF_TR200_D1	53.33	188.08	191.88	190.05	192.04	0.001139		1.78		30.02	38.64	0.31
senna	830	Max WS	UF_TR200_D2	59.10	188.08	192.32	190.16	192.47	0.000932		1.74		33.91	43.31	0.29
senna	830	Max WS	UF_TR200_D7	69.89	188.08	192.53	190.35	192.73	0.001086		1.95		35.82	47.18	0.31
senna	830	Max WS	UF_TR200_D3	64.06	188.08	192.52	190.25	192.68	0.000921		1.79		35.71	47.18	0.29
senna	820		Bridge												
senna	810	Max WS	UF_TR200_D5	65.11	188.08	192.33		192.51	0.001123		1.92		33.98	25.54	0.31
senna	810	Max WS	UF_TR200_D1	53.10	188.08	191.71		191.89	0.001340		1.86		28.51	20.75	0.33
senna	810	Max WS	UF_TR200_D2	59.10	188.08	192.10		192.27	0.001137		1.85		31.94	23.26	0.31
senna	810	Max WS	UF_TR200_D7	68.99	188.08	192.21		192.43	0.001398		2.09		32.95	23.85	0.35
senna	810	Max WS	UF_TR200_D3	62.05	188.08	192.25		192.43	0.001086		1.86		33.34	24.37	0.31
senna	800	Max WS	UF_TR200_D5	59.98	187.43	192.22		192.31	0.000957	0.50	1.57	0.55	63.17	26.07	0.25
senna	800	Max WS	UF_TR200_D1	44.83	187.43	191.63		191.71	0.001099	0.42	1.52	0.48	47.56	26.07	0.26
senna	800	Max WS	UF_TR200_D2	53.90	187.43	192.00		192.09	0.000995	0.47	1.54	0.52	57.31	26.07	0.25
senna	800	Max WS	UF_TR200_D7	59.54	187.43	192.12		192.21	0.001059	0.51	1.62	0.56	60.42	26.07	0.26
senna	800	Max WS	UF_TR200_D3	58.43	187.43	192.15		192.24	0.000980	0.49	1.57	0.54	61.36	26.07	0.25
senna	794.9	Max WS	UF_TR200_D5	67.78	187.01	192.16		192.23	0.000473	0.37	1.26	0.14	64.75	20.00	0.20
senna	794.9	Max WS	UF_TR200_D1	51.53	187.01	191.56		191.63	0.000488	0.32	1.15	0.14	52.91	20.00	0.20
senna	794.9	Max WS	UF_TR200_D2	60.92	187.01	191.94		192.00	0.000469	0.35	1.20	0.14	60.32	20.00	0.20
senna	794.9	Max WS	UF_TR200_D7	66.24	187.01	192.05		192.13	0.000496	0.37	1.27	0.14	62.68	20.00	0.21
senna	794.9	Max WS	UF_TR200_D3	65.95	187.01	192.09		192.16	0.000477	0.37	1.25	0.14	63.36	20.00	0.20

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DEGLI STRULLI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

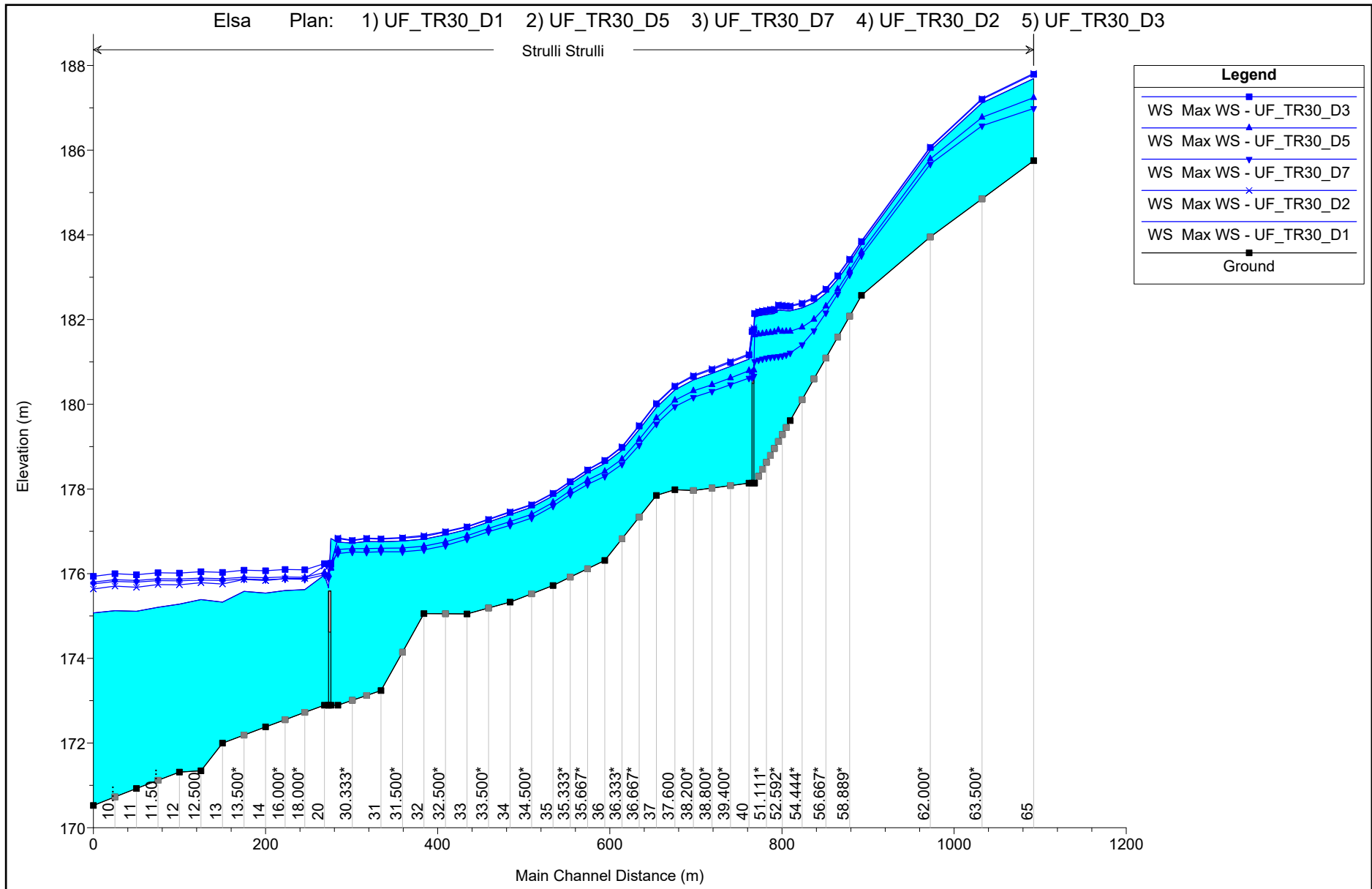
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DEGLI STRULLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

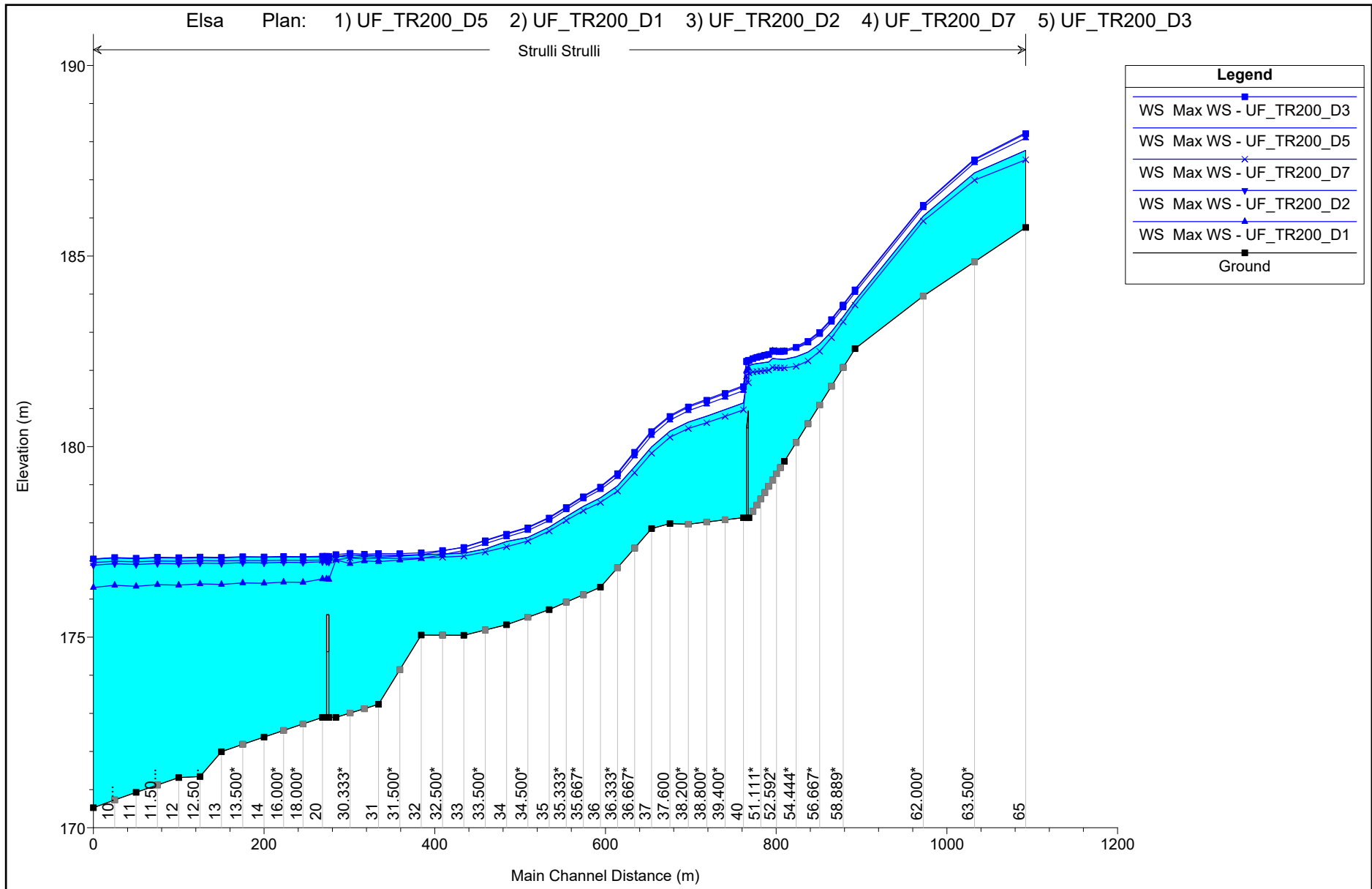
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DEGLI STRULLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

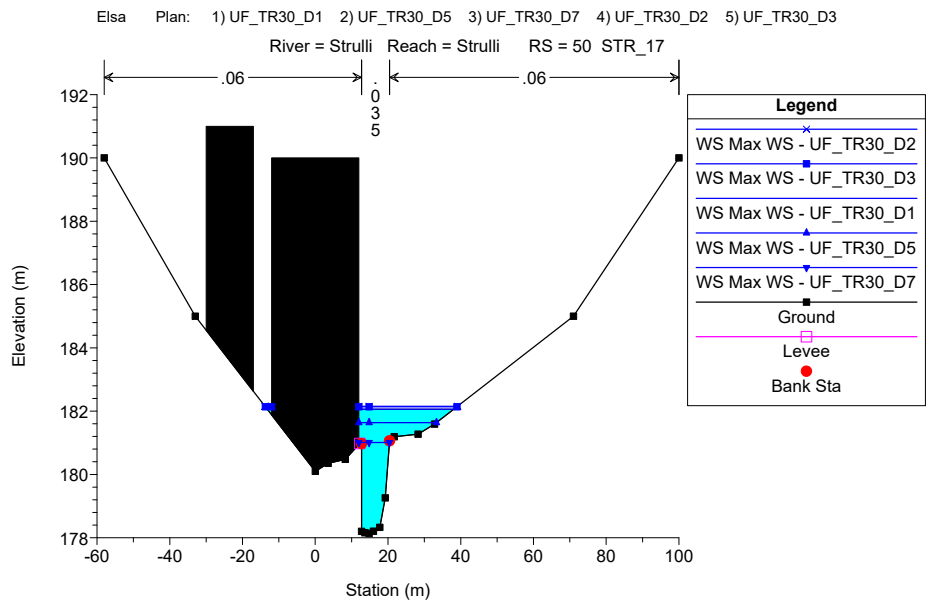
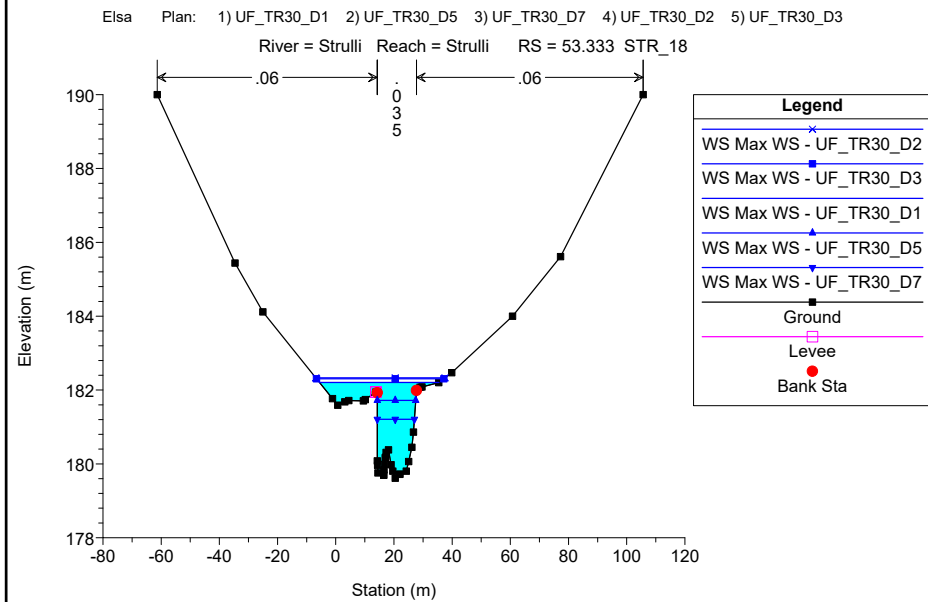
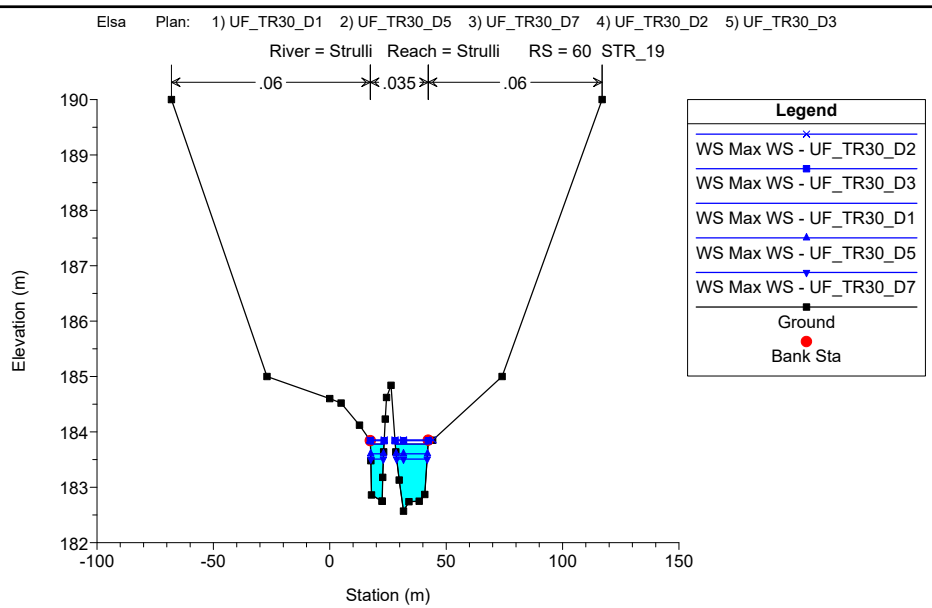
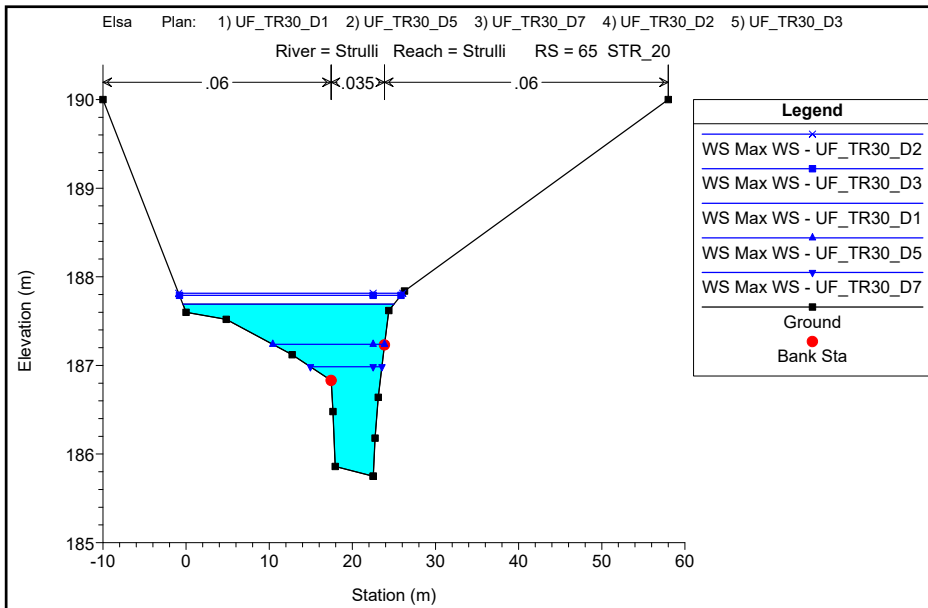
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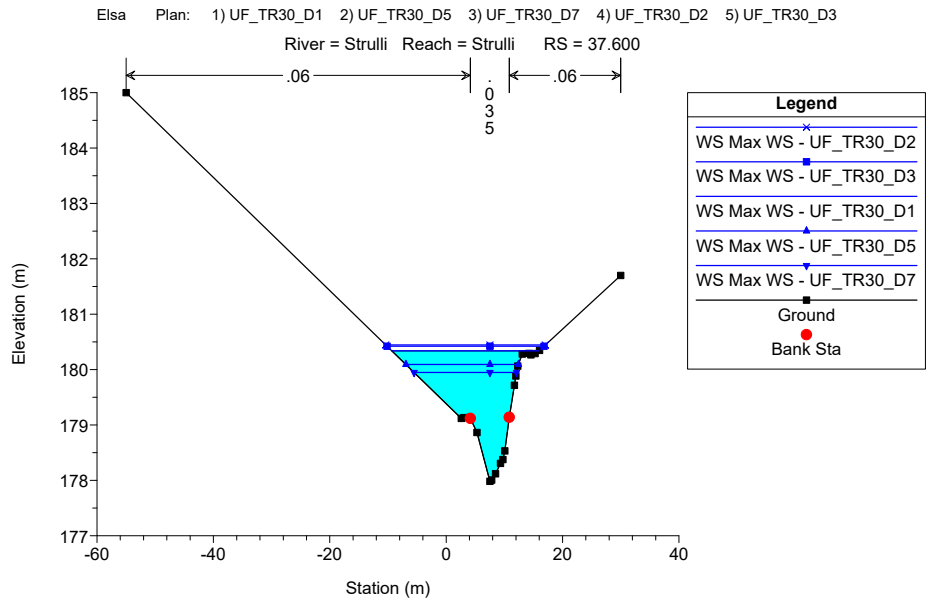
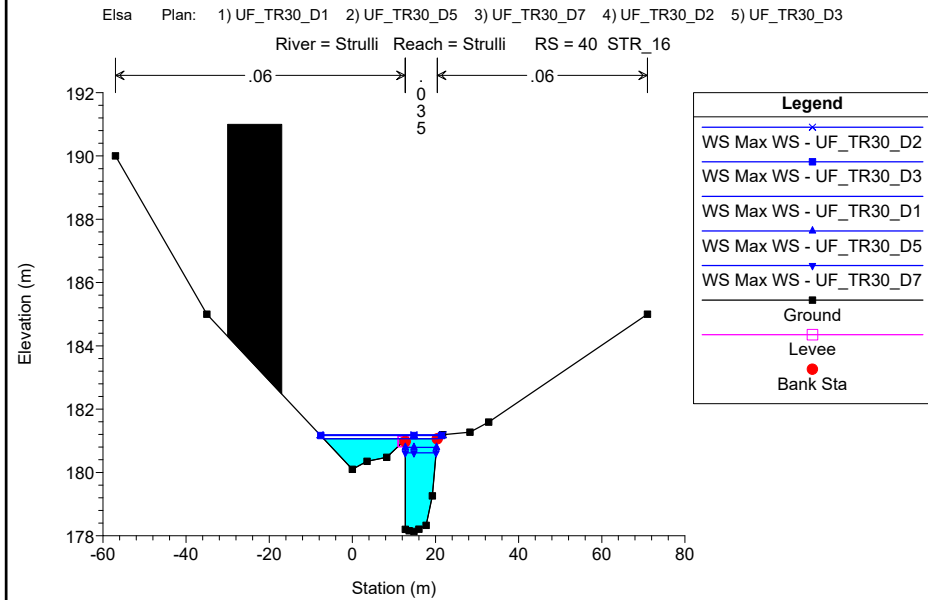
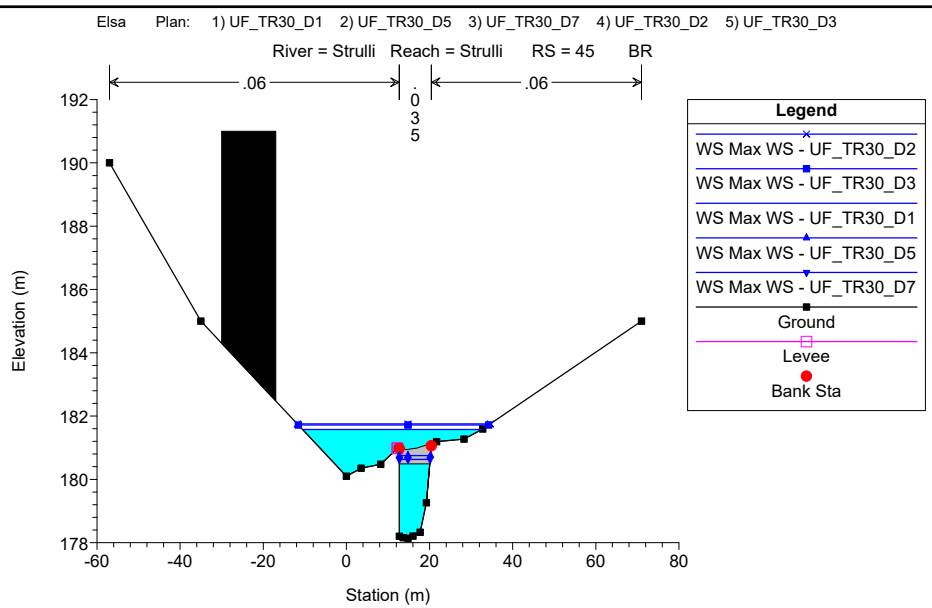
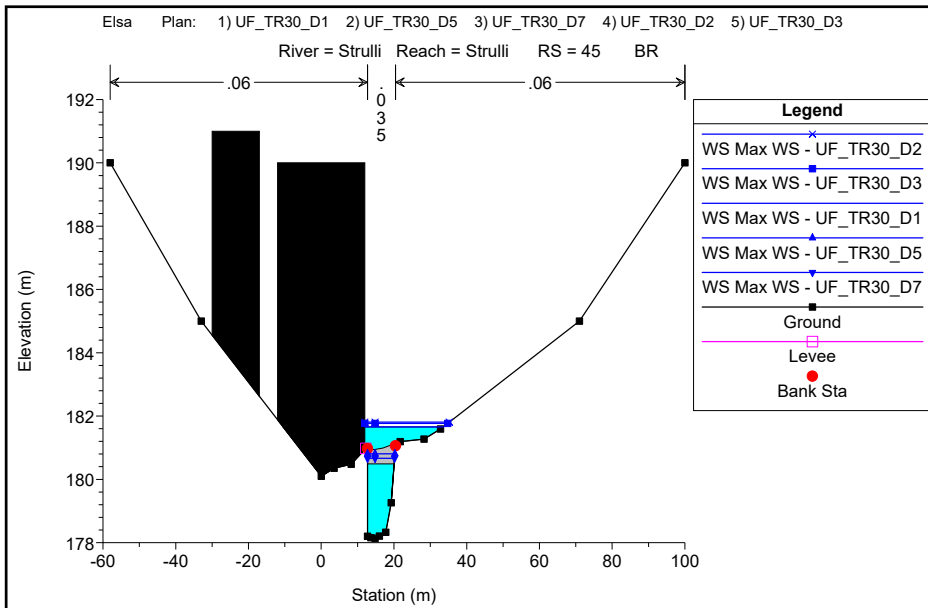
BOTRO DEGLI STRULLI

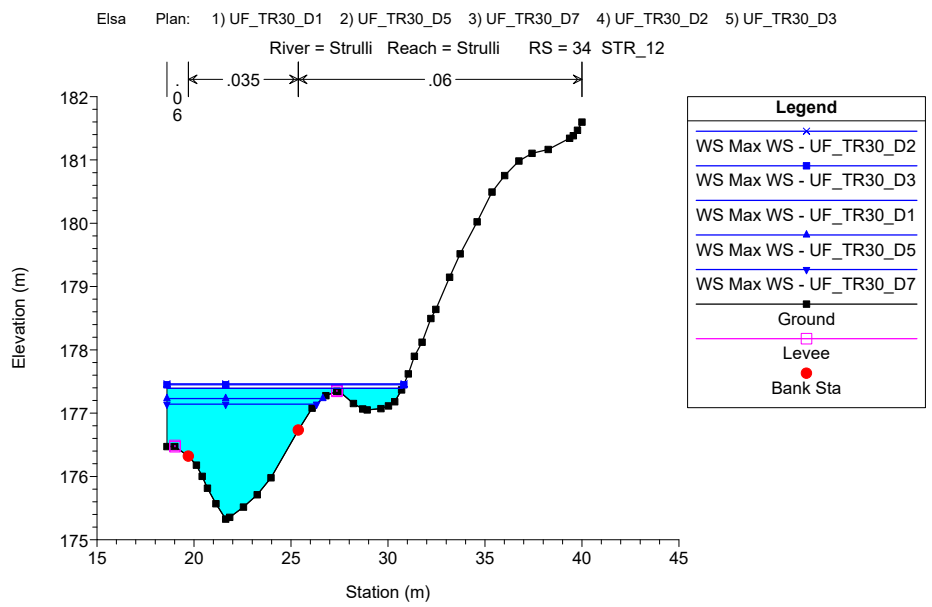
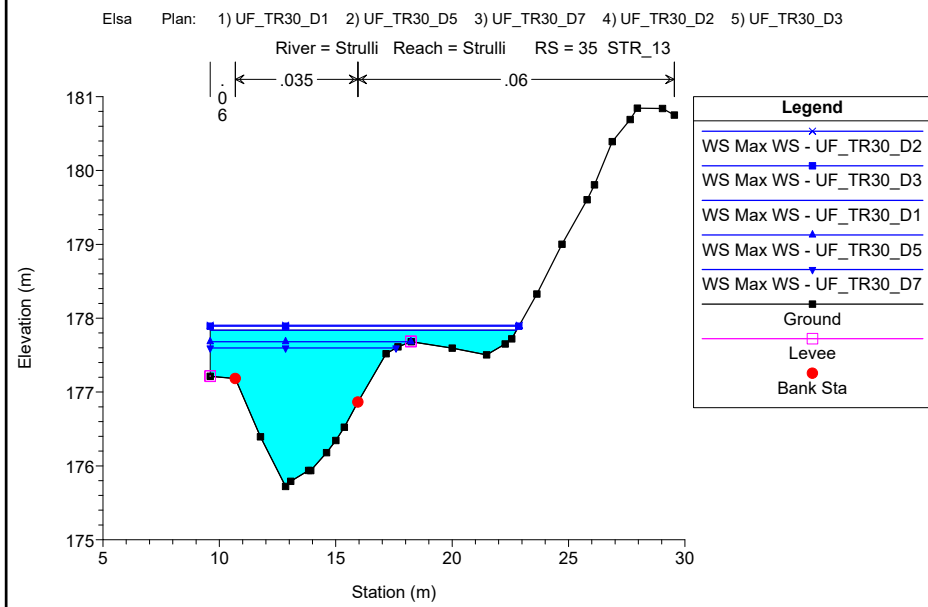
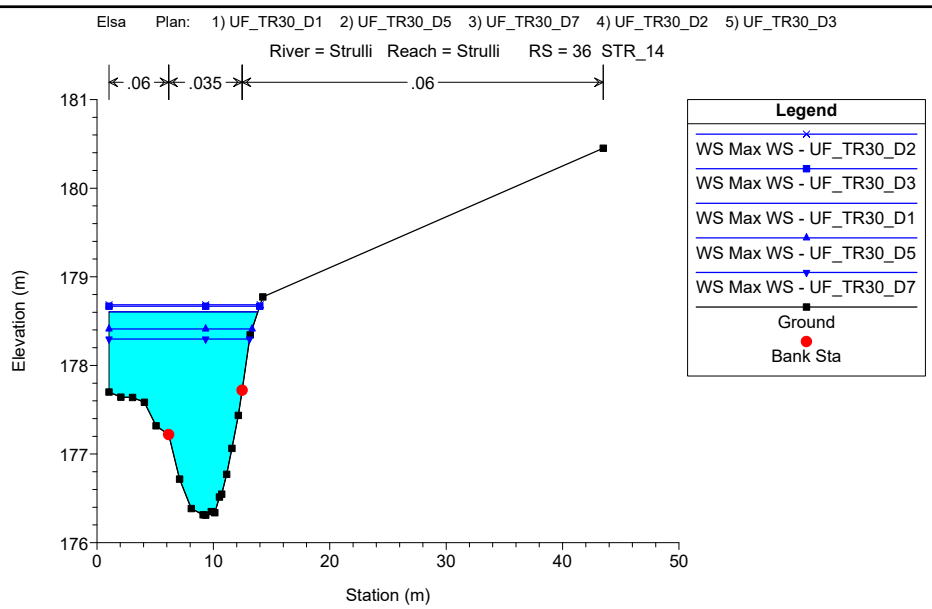
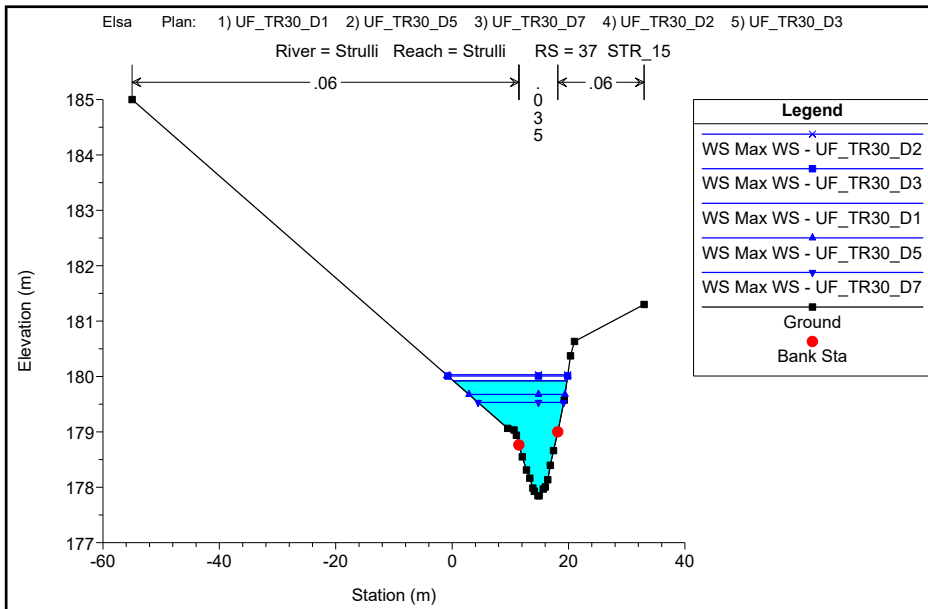
MODELLAZIONE PER TR=30 anni

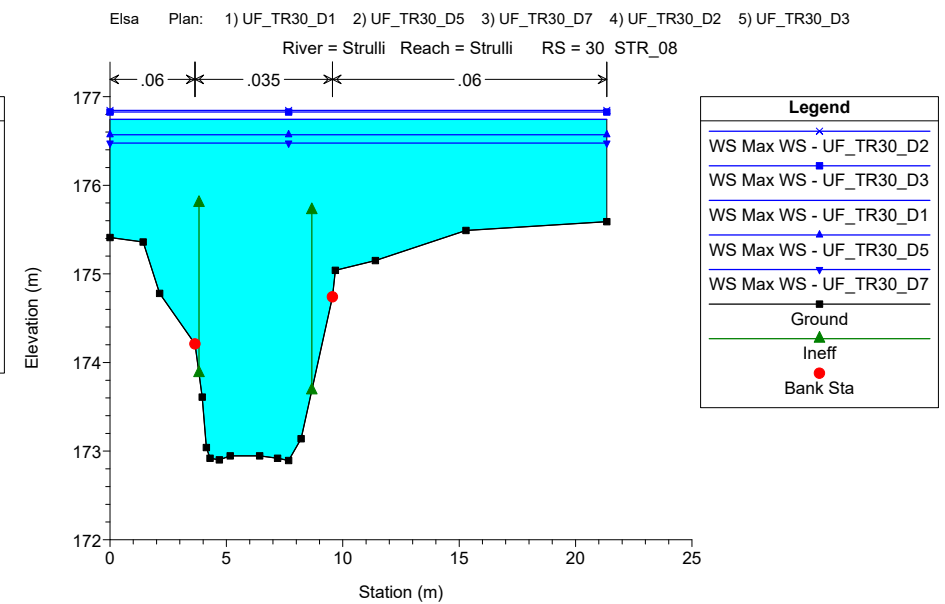
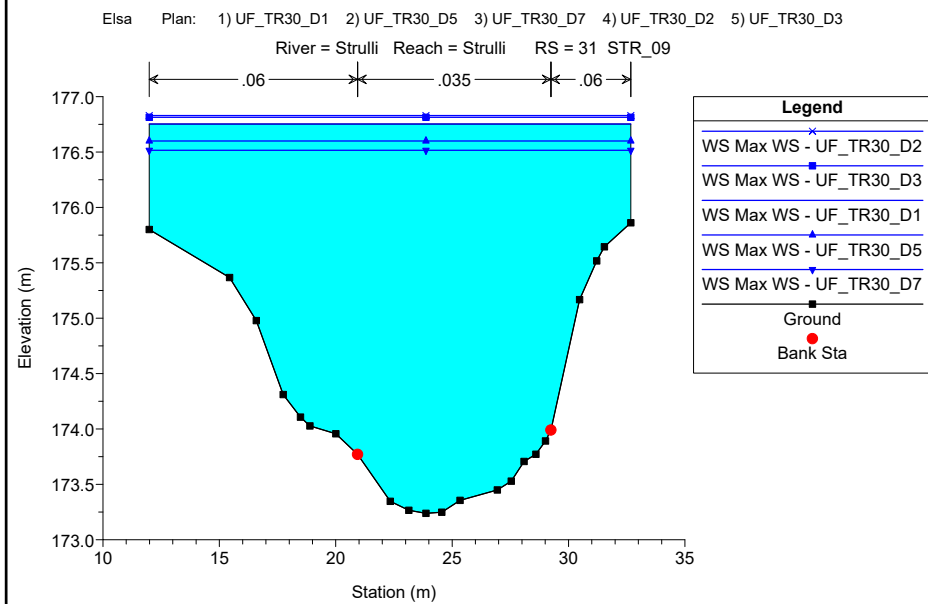
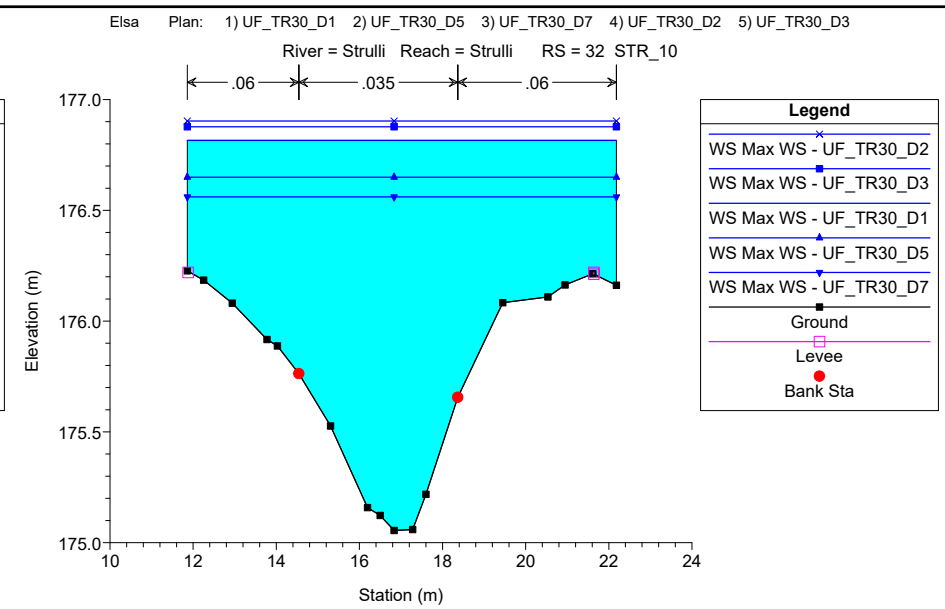
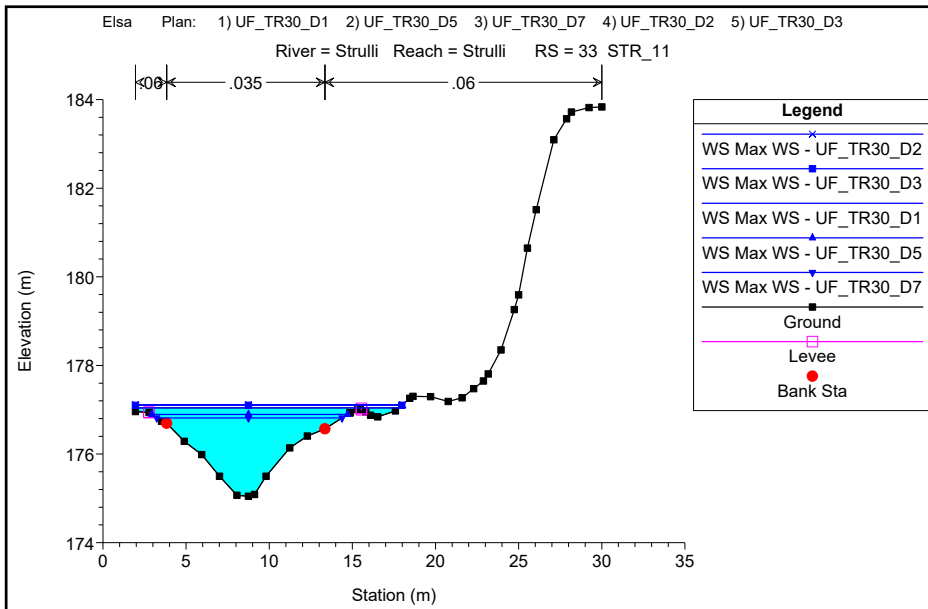
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

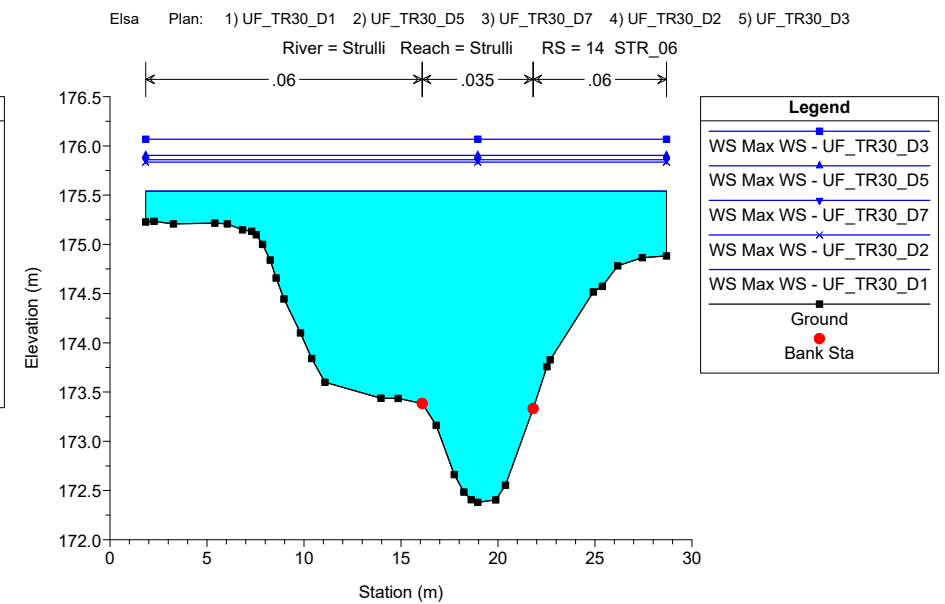
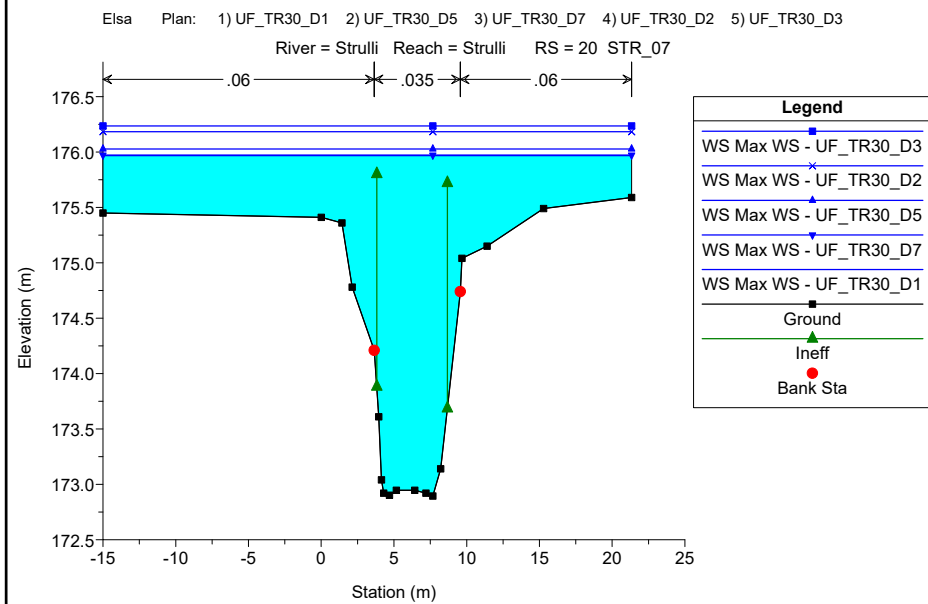
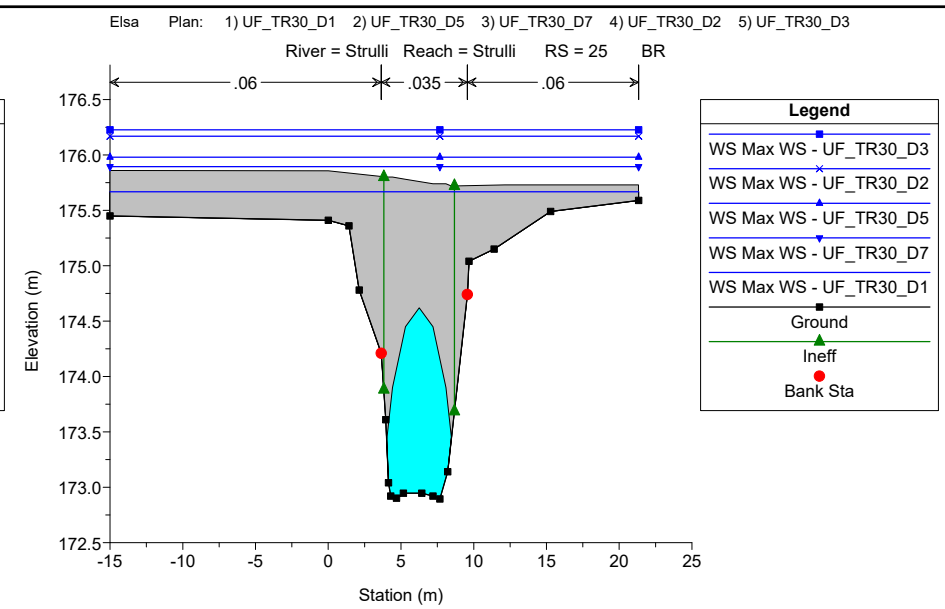
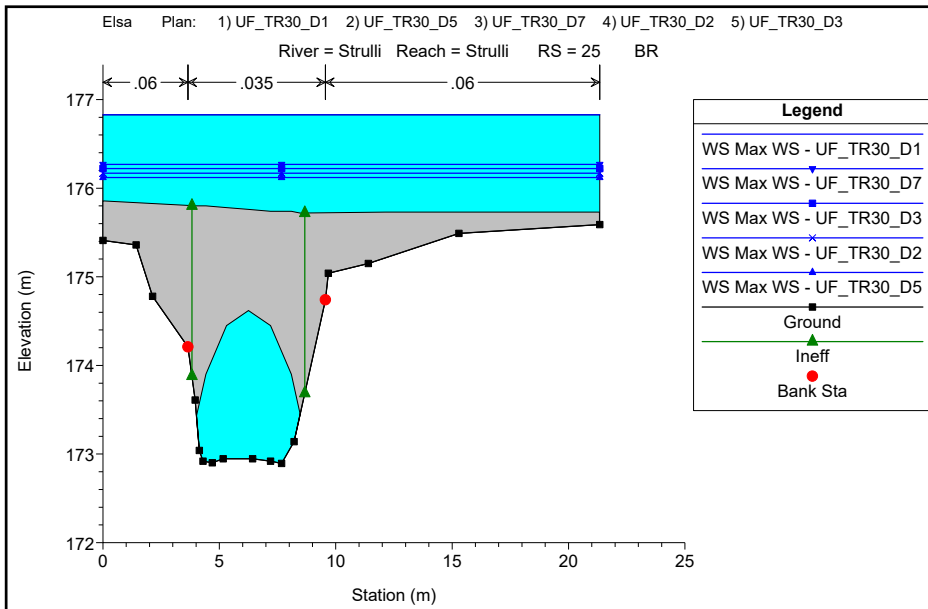
Sezioni Trasversali (da monte verso valle)

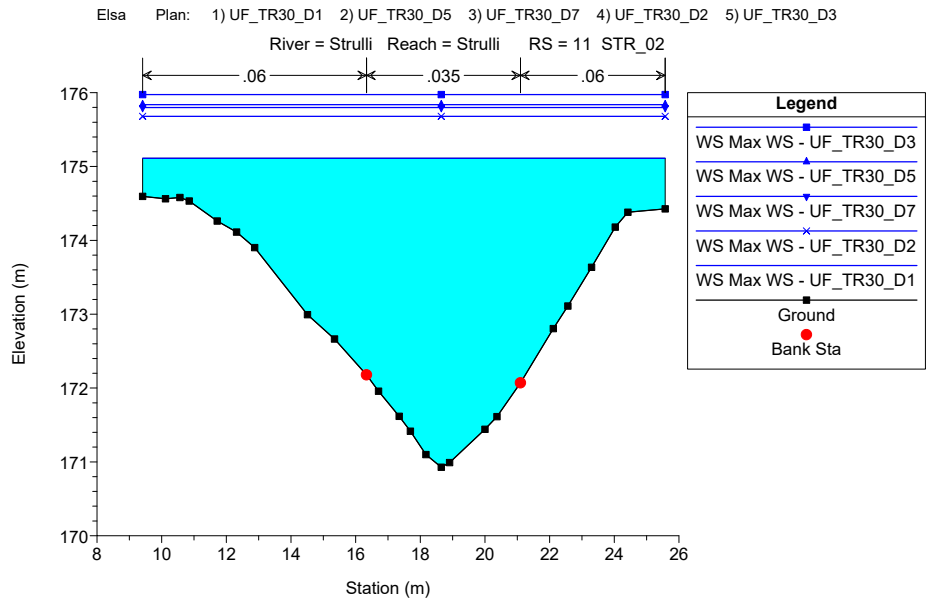
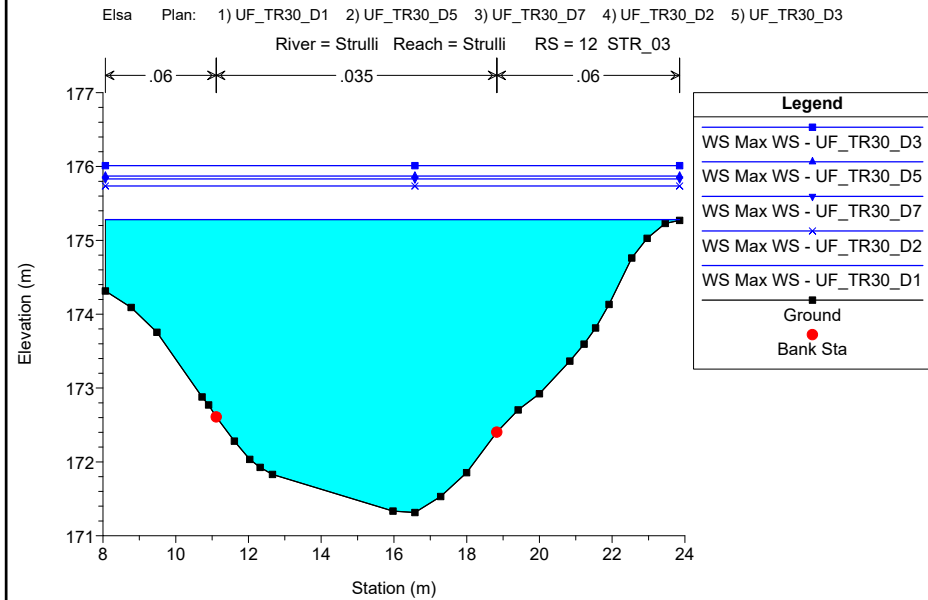
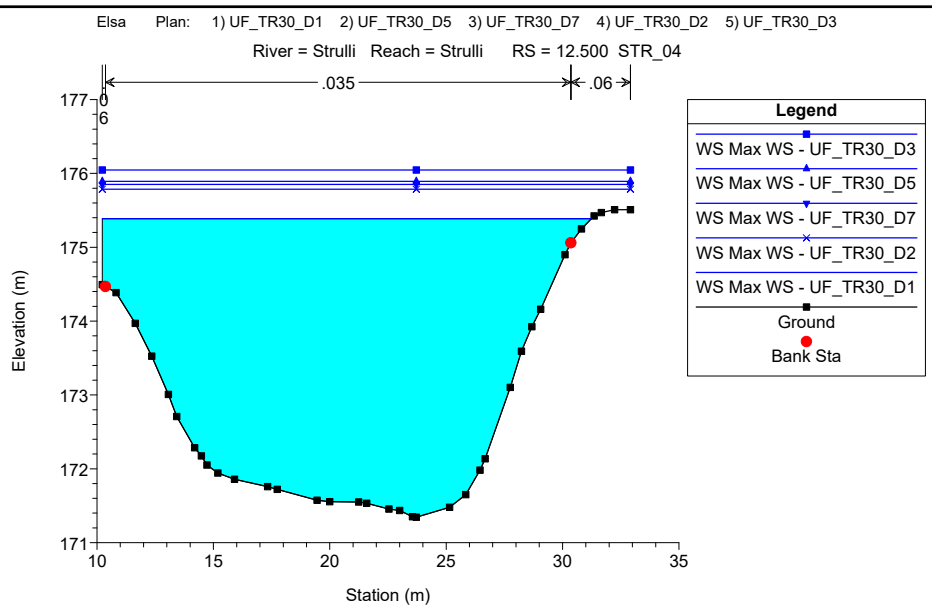
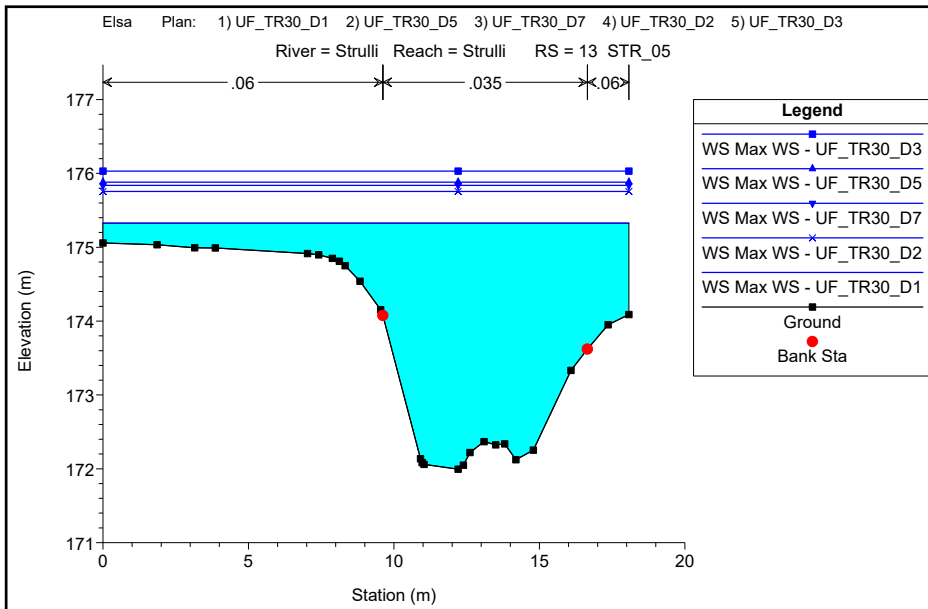


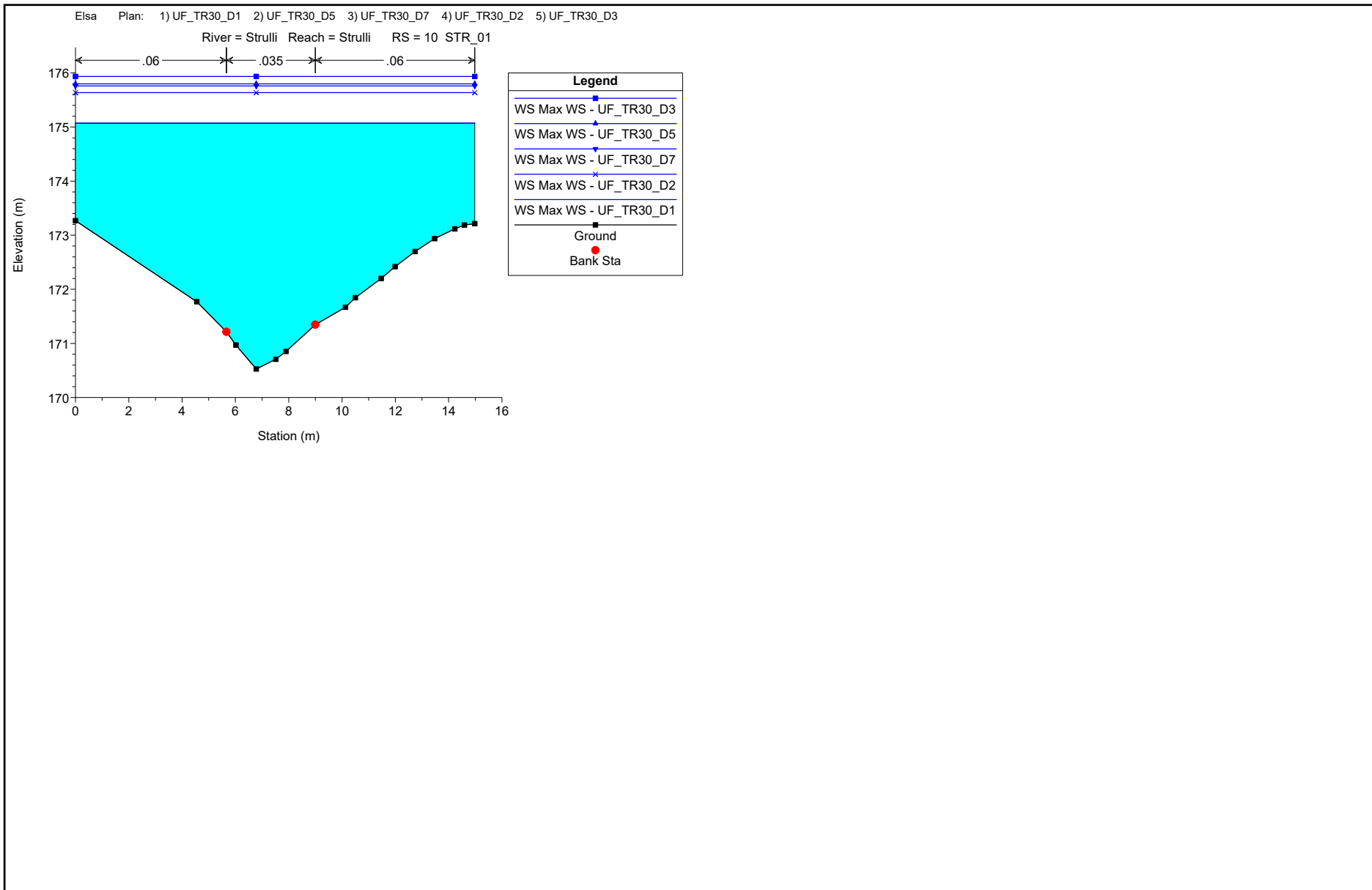












ALLEGATI

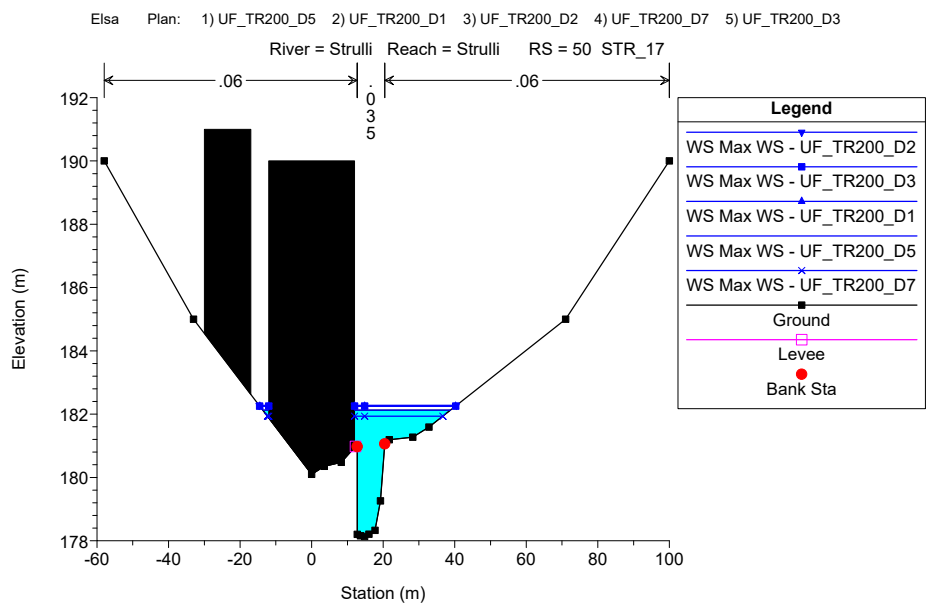
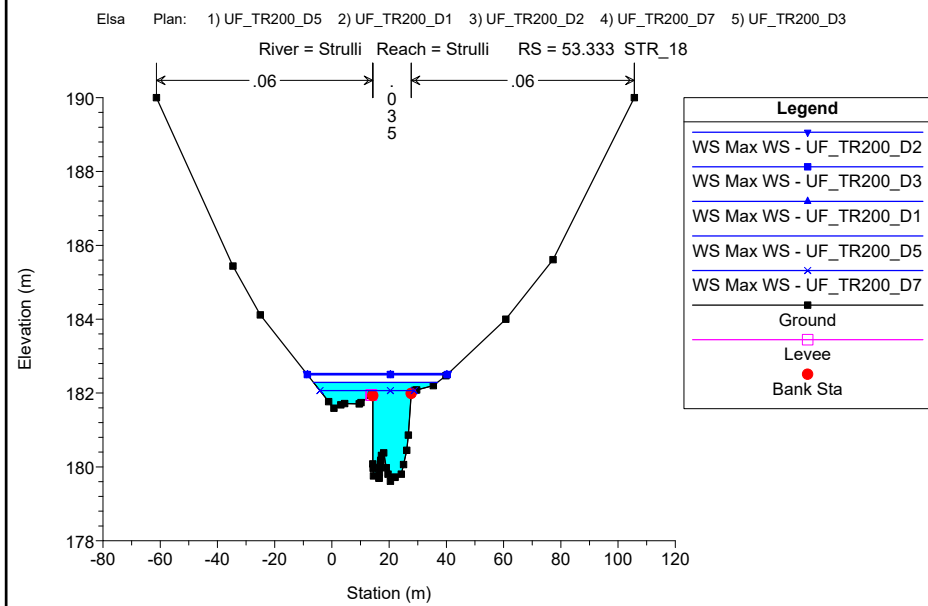
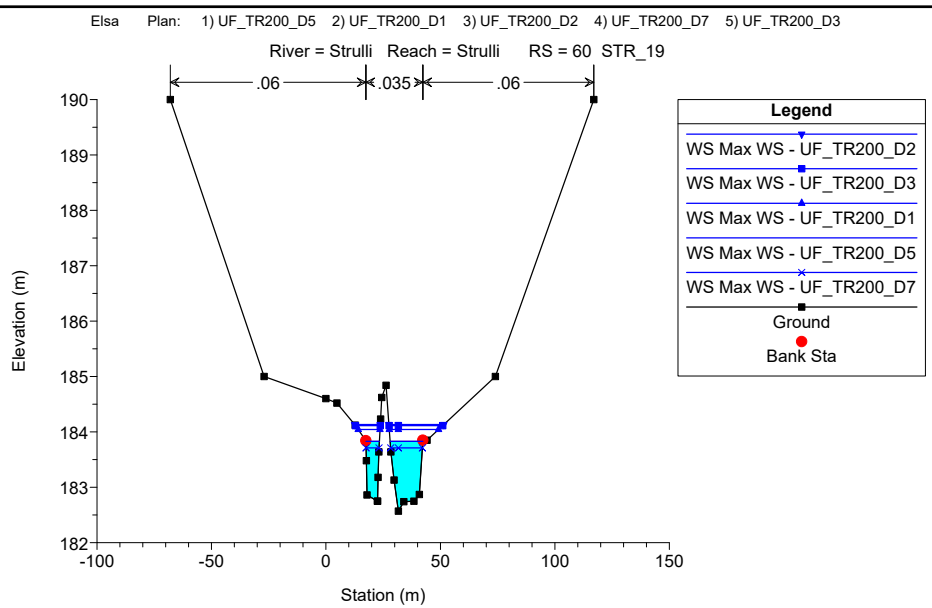
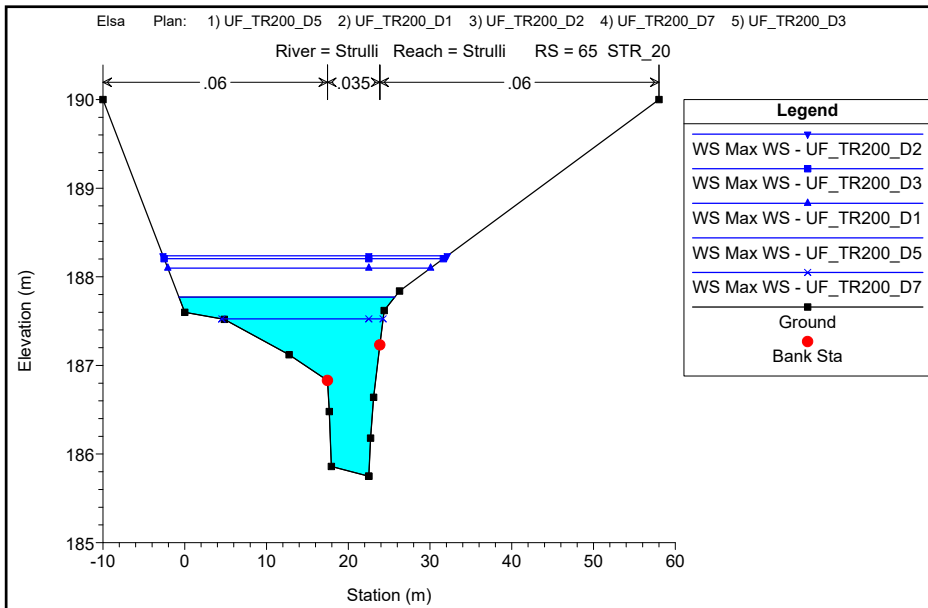
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

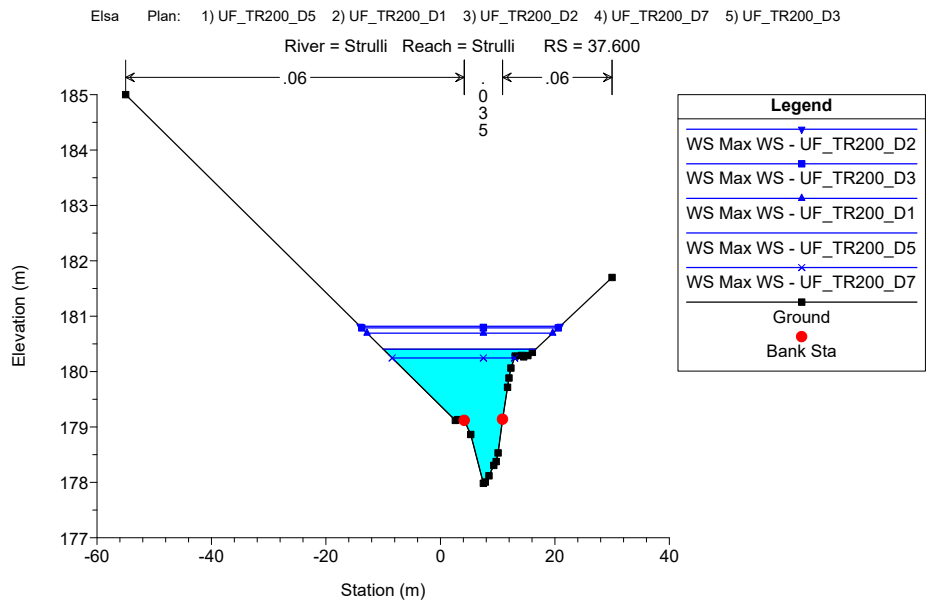
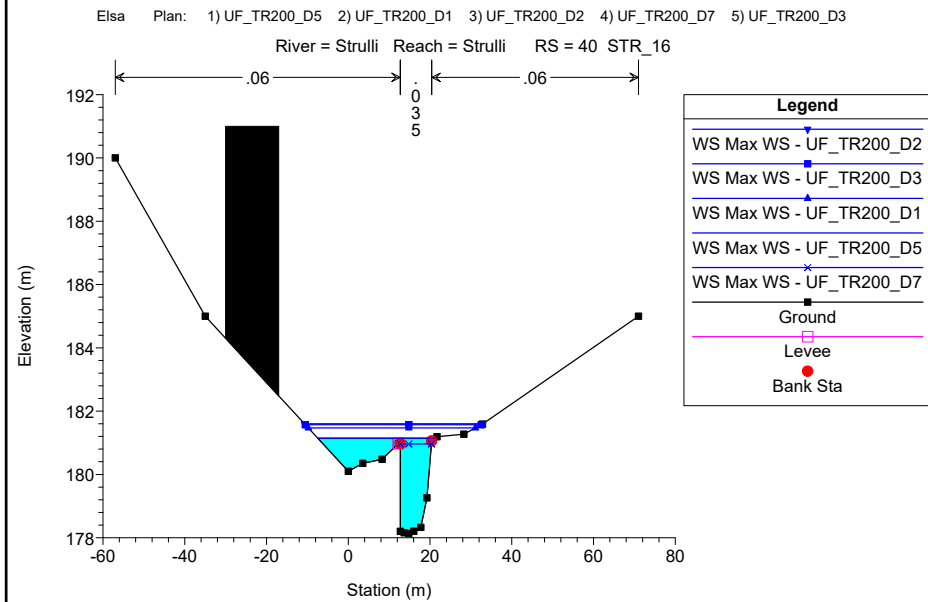
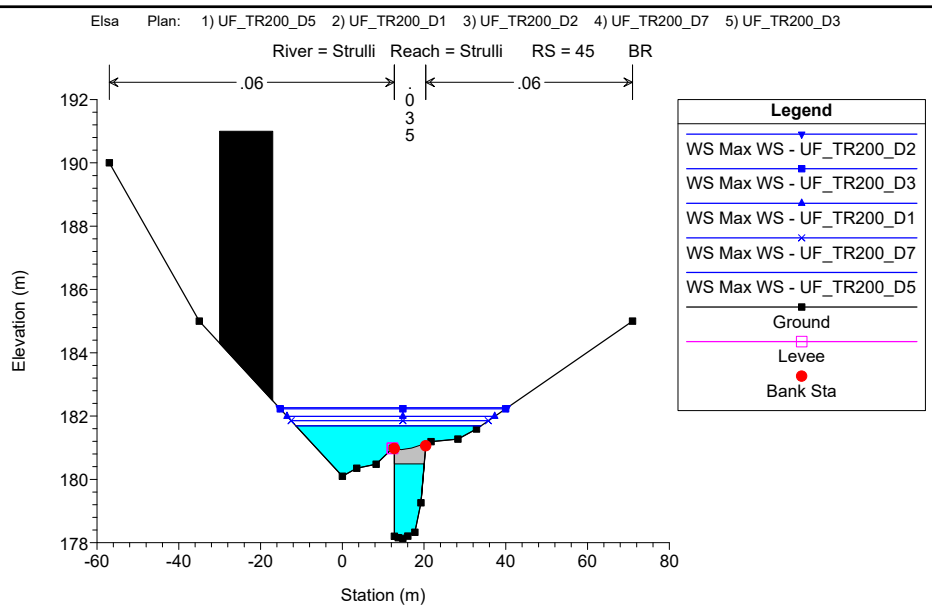
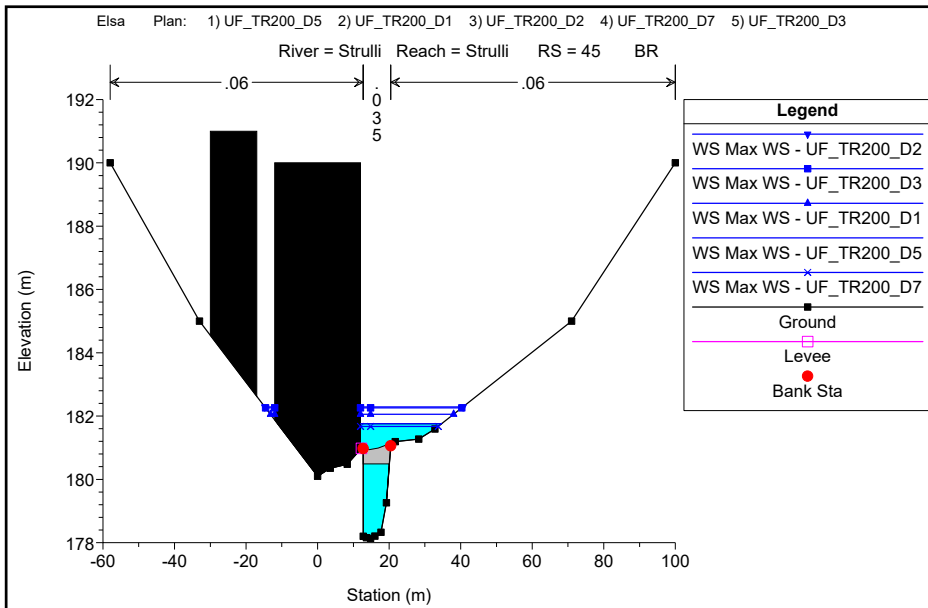
BOTRO DEGLI STRULLI

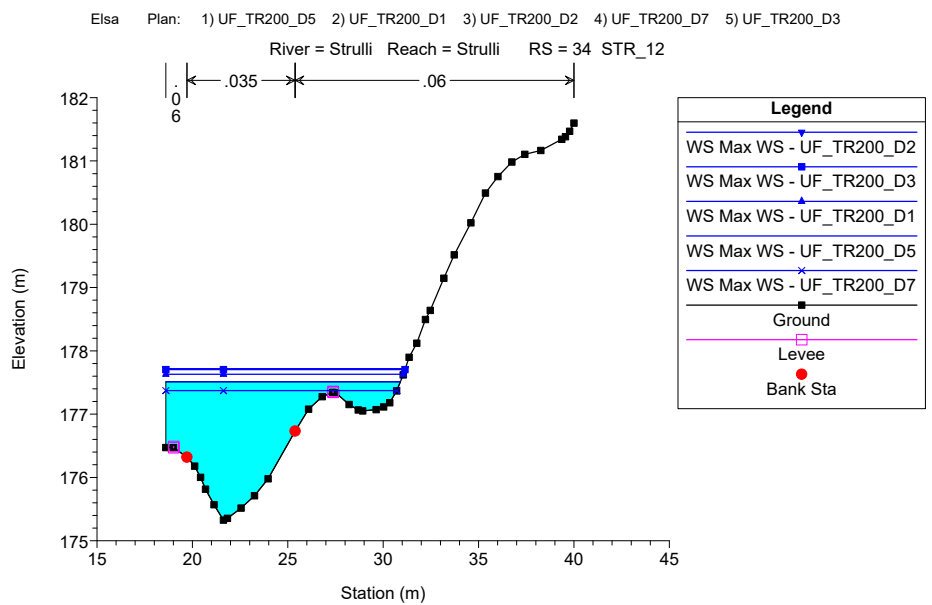
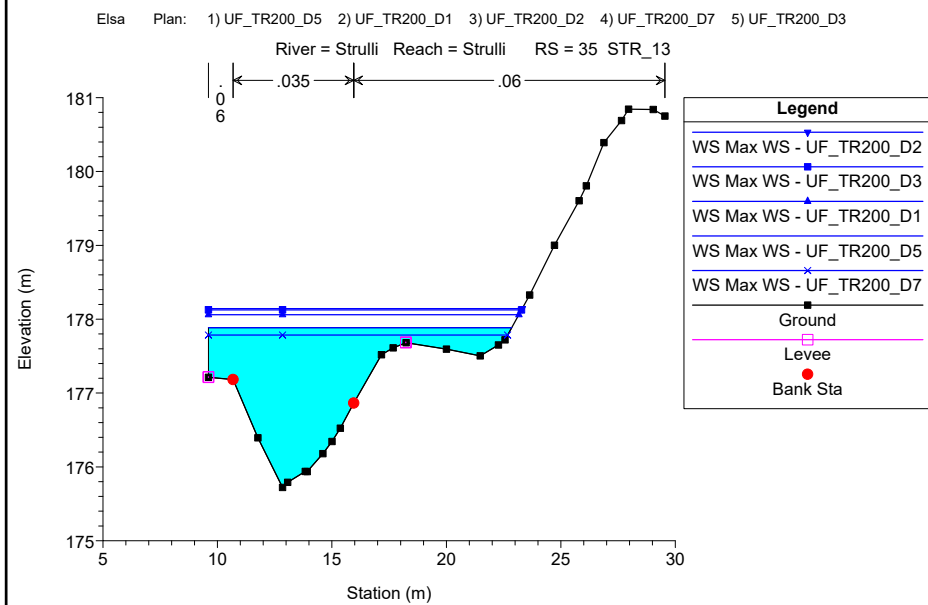
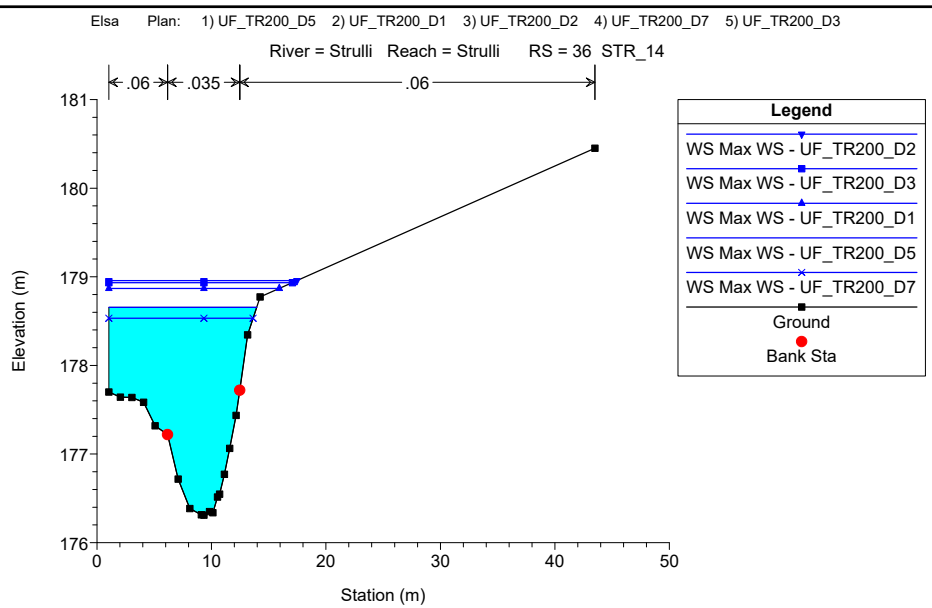
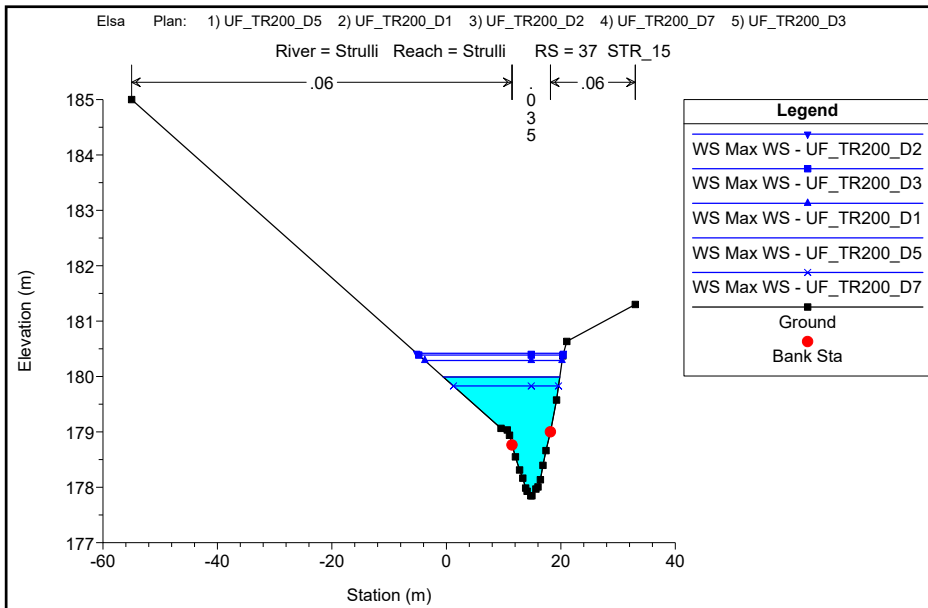
MODELLAZIONE PER TR=200 anni

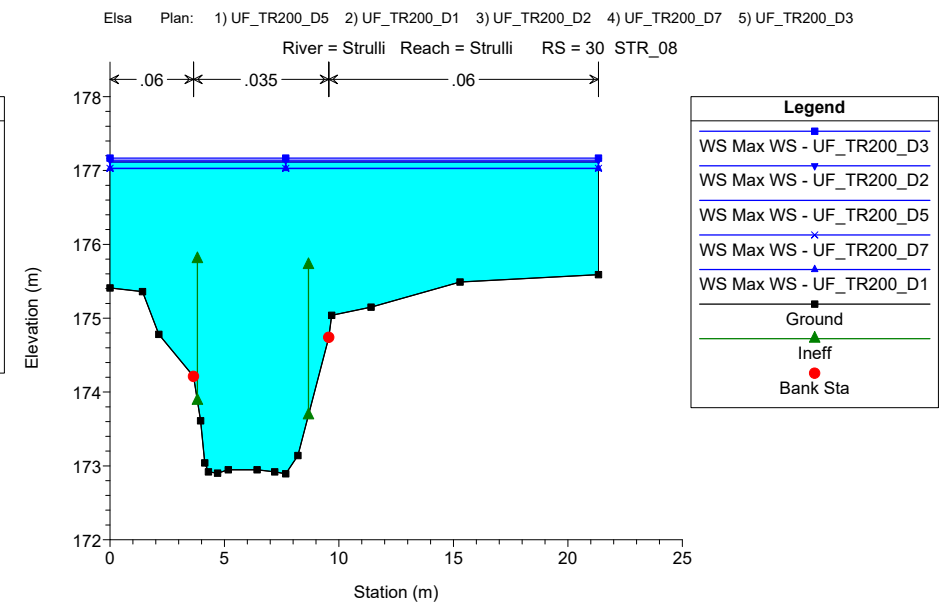
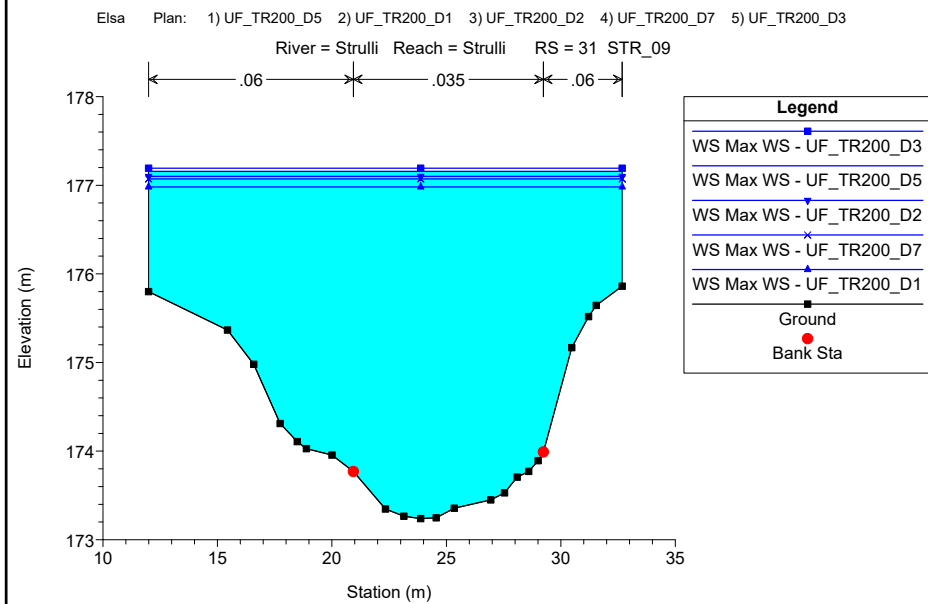
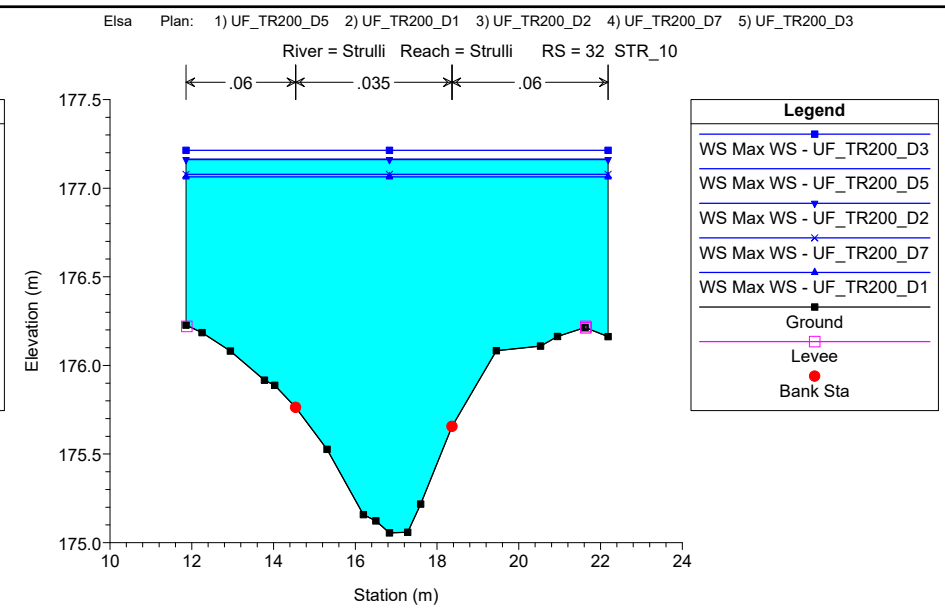
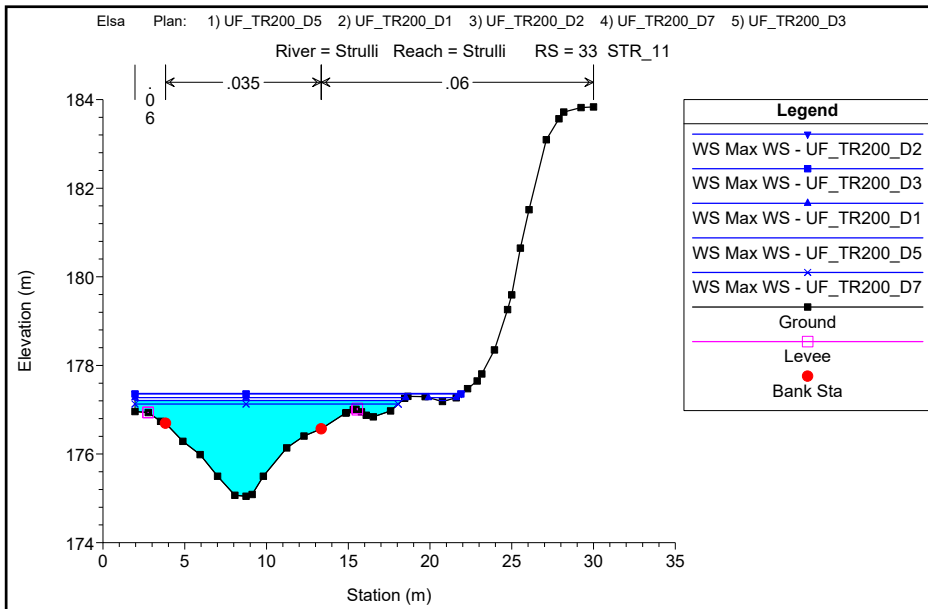
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

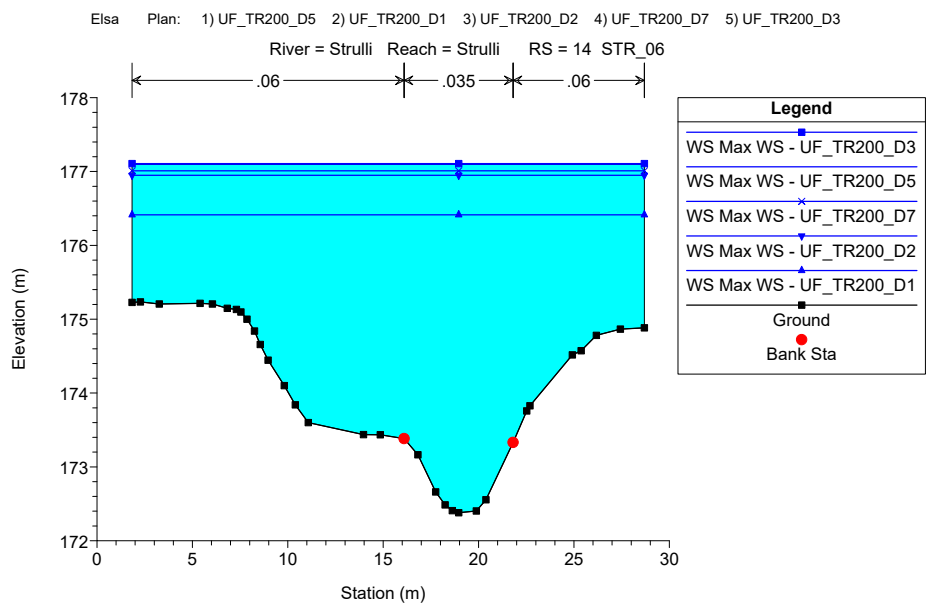
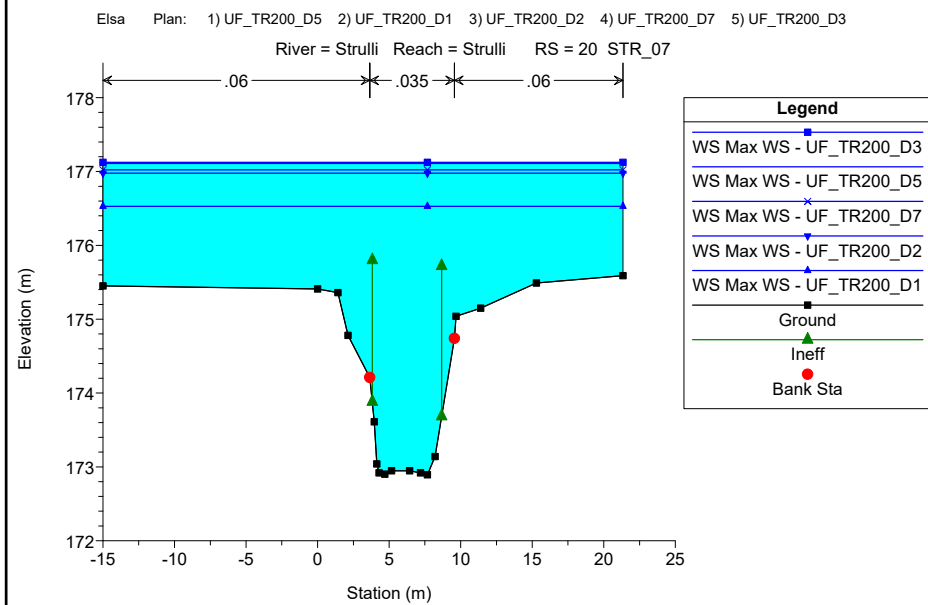
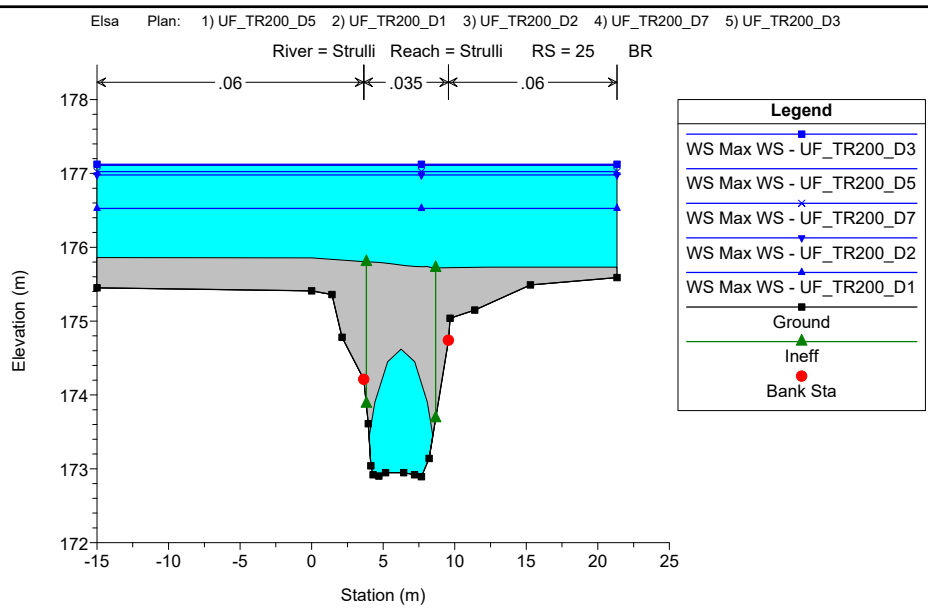
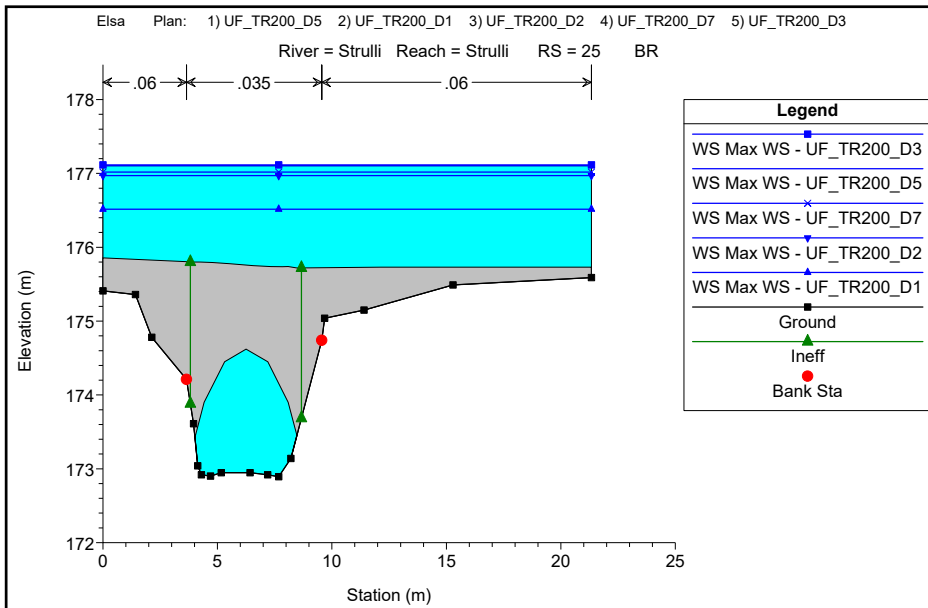
Sezioni Trasversali (da monte verso valle)

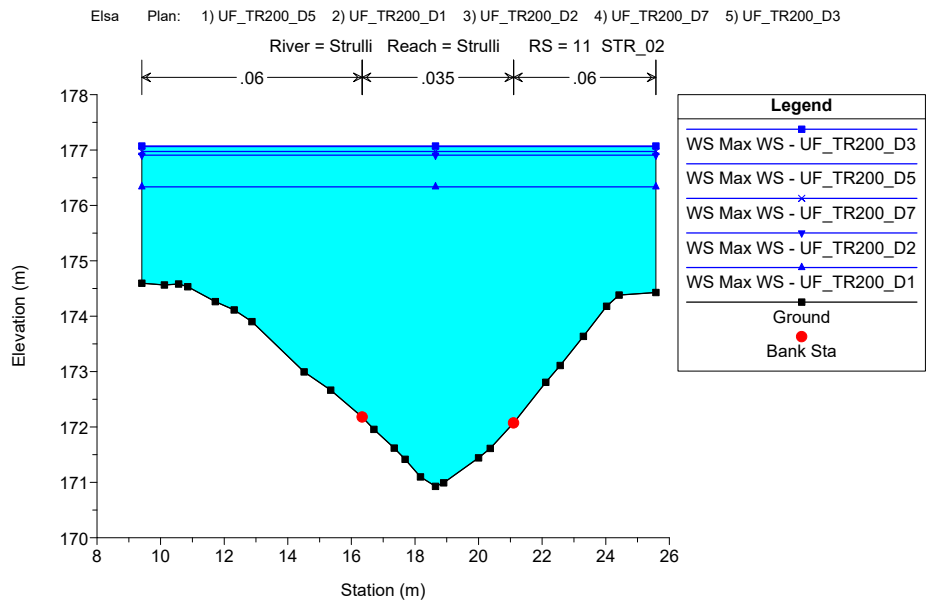
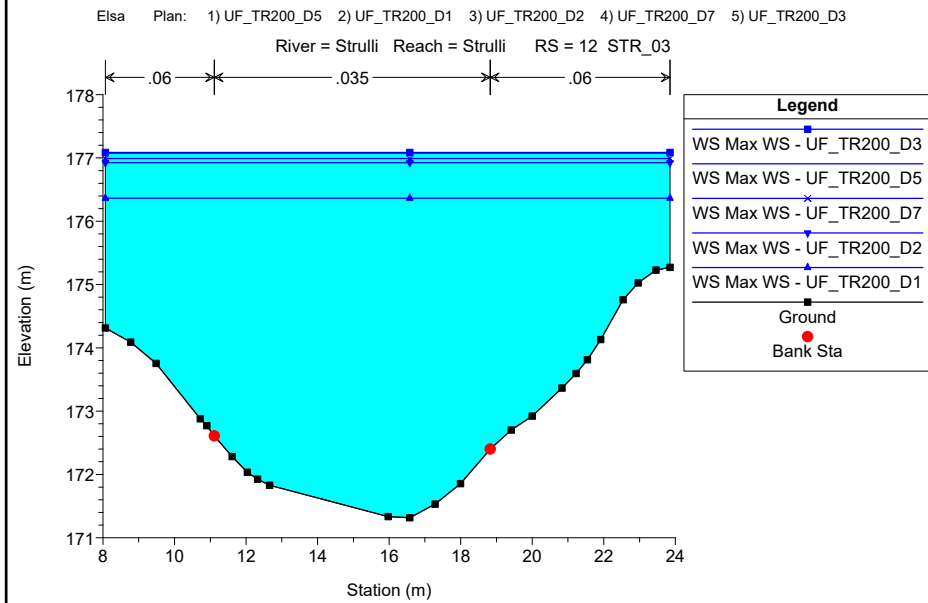
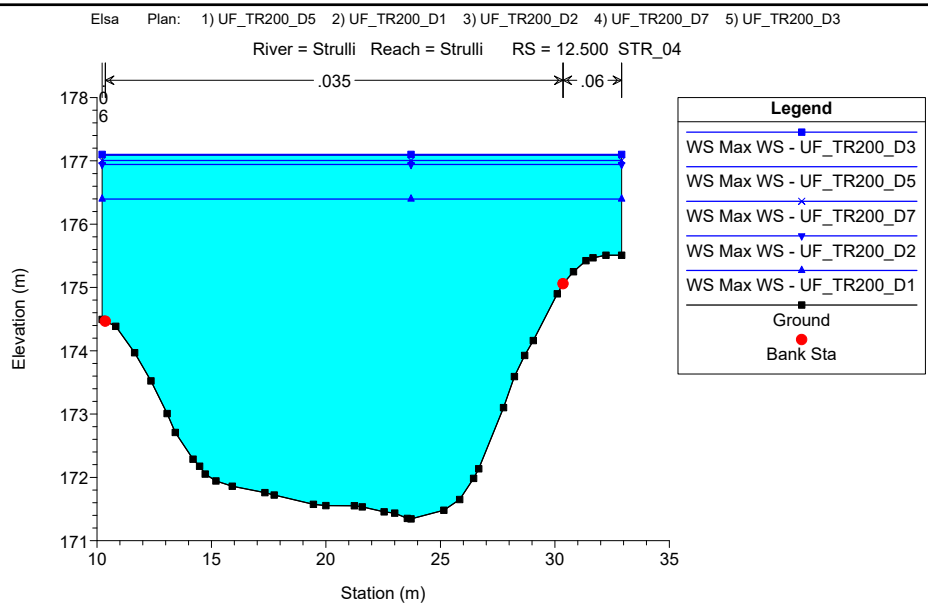
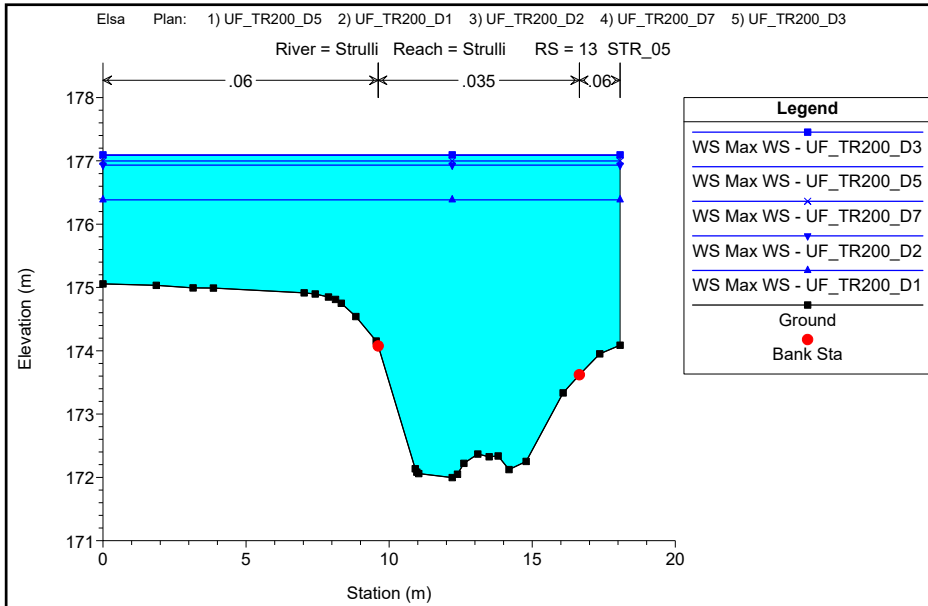






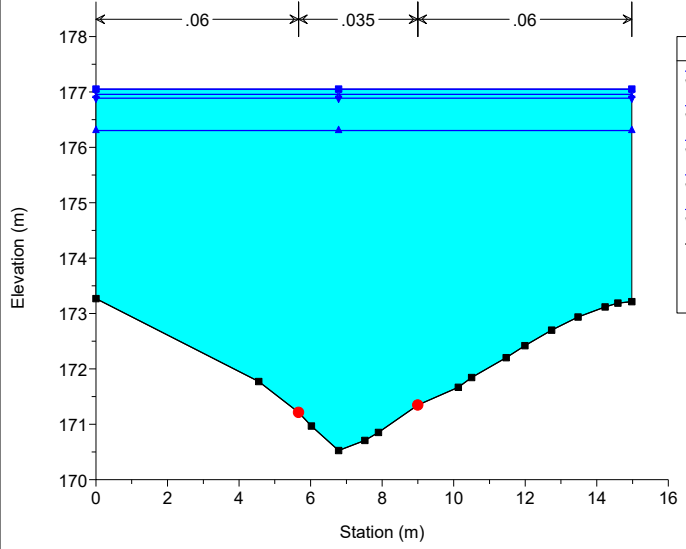






Elsa Plan: 1) UF_TR200_D5 2) UF_TR200_D1 3) UF_TR200_D2 4) UF_TR200_D7 5) UF_TR200_D3

River = Strulli Reach = Strulli RS = 10 STR_01



Legend	
WS Max WS - UF_TR200_D3	■
WS Max WS - UF_TR200_D5	—
WS Max WS - UF_TR200_D7	×
WS Max WS - UF_TR200_D2	▼
WS Max WS - UF_TR200_D1	▲
Ground	■
Bank Sta	●

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DEGLI STRULLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Strulli	14	Max WS	UF_TR30_D2	49.95	172.38	175.83		175.94	0.000946	0.63	1.78	0.58	48.05	26.85	0.32
Strulli	14	Max WS	UF_TR30_D3	41.31	172.38	176.07		176.12	0.000463	0.48	1.30	0.44	54.33	26.85	0.23
Strulli	13	Max WS	UF_TR30_D1	57.30	172.00	175.33		175.69	0.003201	0.52	2.76	0.77	25.55	18.07	0.53
Strulli	13	Max WS	UF_TR30_D5	32.25	172.00	175.88		175.95	0.000480	0.34	1.21	0.33	35.57	18.07	0.21
Strulli	13	Max WS	UF_TR30_D7	30.71	172.00	175.84		175.90	0.000459	0.32	1.17	0.32	34.80	18.07	0.21
Strulli	13	Max WS	UF_TR30_D2	47.52	172.00	175.76		175.92	0.001218	0.49	1.87	0.51	33.33	18.07	0.33
Strulli	13	Max WS	UF_TR30_D3	40.74	172.00	176.03		176.12	0.000639	0.42	1.43	0.39	38.27	18.07	0.25
Strulli	12.500	Max WS	UF_TR30_D1	71.11	171.34	175.39		175.46	0.000447	0.09	1.18	0.10	60.32	21.02	0.22
Strulli	12.500	Max WS	UF_TR30_D5	41.90	171.34	175.89		175.91	0.000092	0.04	0.60	0.09	71.64	22.69	0.10
Strulli	12.500	Max WS	UF_TR30_D7	39.50	171.34	175.85		175.87	0.000085	0.04	0.57	0.08	70.67	22.69	0.10
Strulli	12.500	Max WS	UF_TR30_D2	62.62	171.34	175.79		175.83	0.000228	0.06	0.92	0.12	69.20	22.69	0.16
Strulli	12.500	Max WS	UF_TR30_D3	53.13	171.34	176.05		176.07	0.000128	0.05	0.72	0.12	75.12	22.69	0.12
Strulli	12	Max WS	UF_TR30_D1	65.47	171.32	175.28		175.48	0.001094	0.60	2.11	0.64	39.82	15.79	0.36
Strulli	12	Max WS	UF_TR30_D5	37.94	171.32	175.87		175.92	0.000208	0.30	1.02	0.33	49.14	15.79	0.16
Strulli	12	Max WS	UF_TR30_D7	35.94	171.32	175.83		175.87	0.000193	0.28	0.98	0.31	48.52	15.79	0.15
Strulli	12	Max WS	UF_TR30_D2	55.57	171.32	175.74		175.84	0.000504	0.45	1.55	0.49	47.01	15.79	0.25
Strulli	12	Max WS	UF_TR30_D3	48.56	171.32	176.01		176.08	0.000302	0.36	1.25	0.41	51.37	15.79	0.19
Strulli	11	Max WS	UF_TR30_D1	64.85	170.93	175.11		175.45	0.002133	0.89	2.89	0.86	34.18	16.17	0.48
Strulli	11	Max WS	UF_TR30_D5	39.61	170.93	175.84		175.91	0.000373	0.46	1.36	0.43	45.91	16.17	0.21
Strulli	11	Max WS	UF_TR30_D7	37.78	170.93	175.80		175.86	0.000352	0.44	1.32	0.41	45.28	16.17	0.20
Strulli	11	Max WS	UF_TR30_D2	54.31	170.93	175.68		175.83	0.000815	0.66	1.97	0.62	43.35	16.17	0.31
Strulli	11	Max WS	UF_TR30_D3	49.02	170.93	175.97		176.07	0.000505	0.55	1.62	0.51	48.10	16.17	0.24
Strulli	10	Max WS	UF_TR30_D1	63.65	170.53	175.07		175.26	0.001237	0.93	2.45	0.93	45.75	14.98	0.38
Strulli	10	Max WS	UF_TR30_D5	44.29	170.53	175.80		175.86	0.000330	0.53	1.40	0.53	56.64	14.98	0.20
Strulli	10	Max WS	UF_TR30_D7	42.81	170.53	175.76		175.82	0.000317	0.52	1.37	0.52	56.05	14.98	0.20
Strulli	10	Max WS	UF_TR30_D2	56.21	170.53	175.64		175.74	0.000601	0.70	1.85	0.70	54.20	14.98	0.27
Strulli	10	Max WS	UF_TR30_D3	51.60	170.53	175.94		176.01	0.000405	0.59	1.58	0.60	58.70	14.98	0.22

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

BOTRO DEGLI STRULLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Strullii	13	Max WS	UF_TR200_D7	32.04	172.00	177.00		177.03	0.000147	0.29	0.81	0.20	55.78	18.07	0.12
Strullii	13	Max WS	UF_TR200_D3	37.10	172.00	177.09		177.13	0.000182	0.33	0.91	0.23	57.50	18.07	0.14
Strullii	12.500	Max WS	UF_TR200_D5	39.65	171.34	177.09		177.10	0.00030	0.02	0.42	0.09	98.86	22.69	0.06
Strullii	12.500	Max WS	UF_TR200_D1	55.19	171.34	176.40		176.42	0.000101	0.04	0.68	0.14	83.08	22.69	0.11
Strullii	12.500	Max WS	UF_TR200_D2	48.29	171.34	176.94		176.96	0.000050	0.03	0.52	0.12	95.47	22.69	0.08
Strullii	12.500	Max WS	UF_TR200_D7	39.05	171.34	177.01		177.01	0.000031	0.02	0.42	0.09	96.87	22.69	0.06
Strullii	12.500	Max WS	UF_TR200_D3	44.91	171.34	177.10		177.11	0.000039	0.03	0.47	0.11	99.08	22.69	0.07
Strullii	12	Max WS	UF_TR200_D5	37.92	171.32	177.08		177.10	0.000083	0.22	0.76	0.25	68.21	15.79	0.11
Strullii	12	Max WS	UF_TR200_D1	51.12	171.32	176.36		176.43	0.000251	0.35	1.21	0.39	56.94	15.79	0.18
Strullii	12	Max WS	UF_TR200_D2	44.73	171.32	176.92		176.96	0.000128	0.26	0.93	0.31	65.77	15.79	0.13
Strullii	12	Max WS	UF_TR200_D7	37.57	171.32	176.99		177.02	0.000087	0.22	0.77	0.25	66.82	15.79	0.11
Strullii	12	Max WS	UF_TR200_D3	41.98	171.32	177.09		177.12	0.000101	0.24	0.84	0.28	68.33	15.79	0.12
Strullii	11	Max WS	UF_TR200_D5	40.18	170.93	177.06		177.10	0.000146	0.36	1.01	0.32	65.73	16.17	0.14
Strullii	11	Max WS	UF_TR200_D1	51.43	170.93	176.33		176.42	0.000409	0.53	1.53	0.49	53.93	16.17	0.22
Strullii	11	Max WS	UF_TR200_D2	45.50	170.93	176.91		176.96	0.000209	0.42	1.18	0.38	63.19	16.17	0.16
Strullii	11	Max WS	UF_TR200_D7	39.63	170.93	176.98		177.01	0.000151	0.36	1.01	0.32	64.31	16.17	0.14
Strullii	11	Max WS	UF_TR200_D3	43.28	170.93	177.07		177.11	0.000169	0.38	1.08	0.34	65.85	16.17	0.15
Strullii	10	Max WS	UF_TR200_D5	42.59	170.53	177.05		177.08	0.000137	0.38	1.05	0.38	75.31	14.98	0.14
Strullii	10	Max WS	UF_TR200_D1	52.90	170.53	176.30		176.37	0.000331	0.56	1.50	0.56	64.20	14.98	0.21
Strullii	10	Max WS	UF_TR200_D2	46.80	170.53	176.89		176.93	0.000181	0.43	1.19	0.44	72.94	14.98	0.15
Strullii	10	Max WS	UF_TR200_D7	42.16	170.53	176.96		176.99	0.000141	0.38	1.06	0.39	73.99	14.98	0.14
Strullii	10	Max WS	UF_TR200_D3	44.91	170.53	177.05		177.09	0.000152	0.40	1.11	0.40	75.42	14.98	0.14

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO PODERE VALLI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

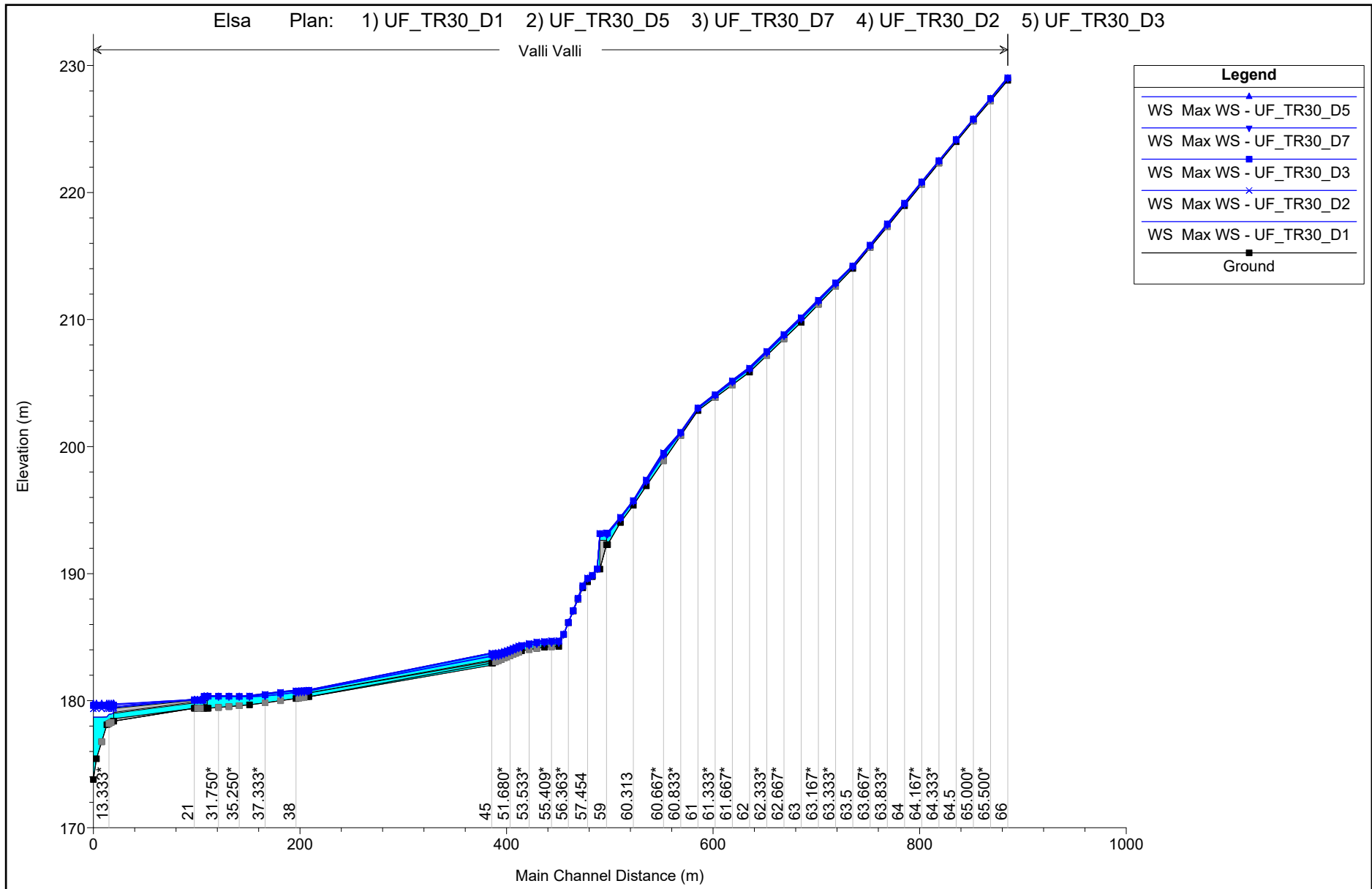
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FOSSO PODERE VALLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

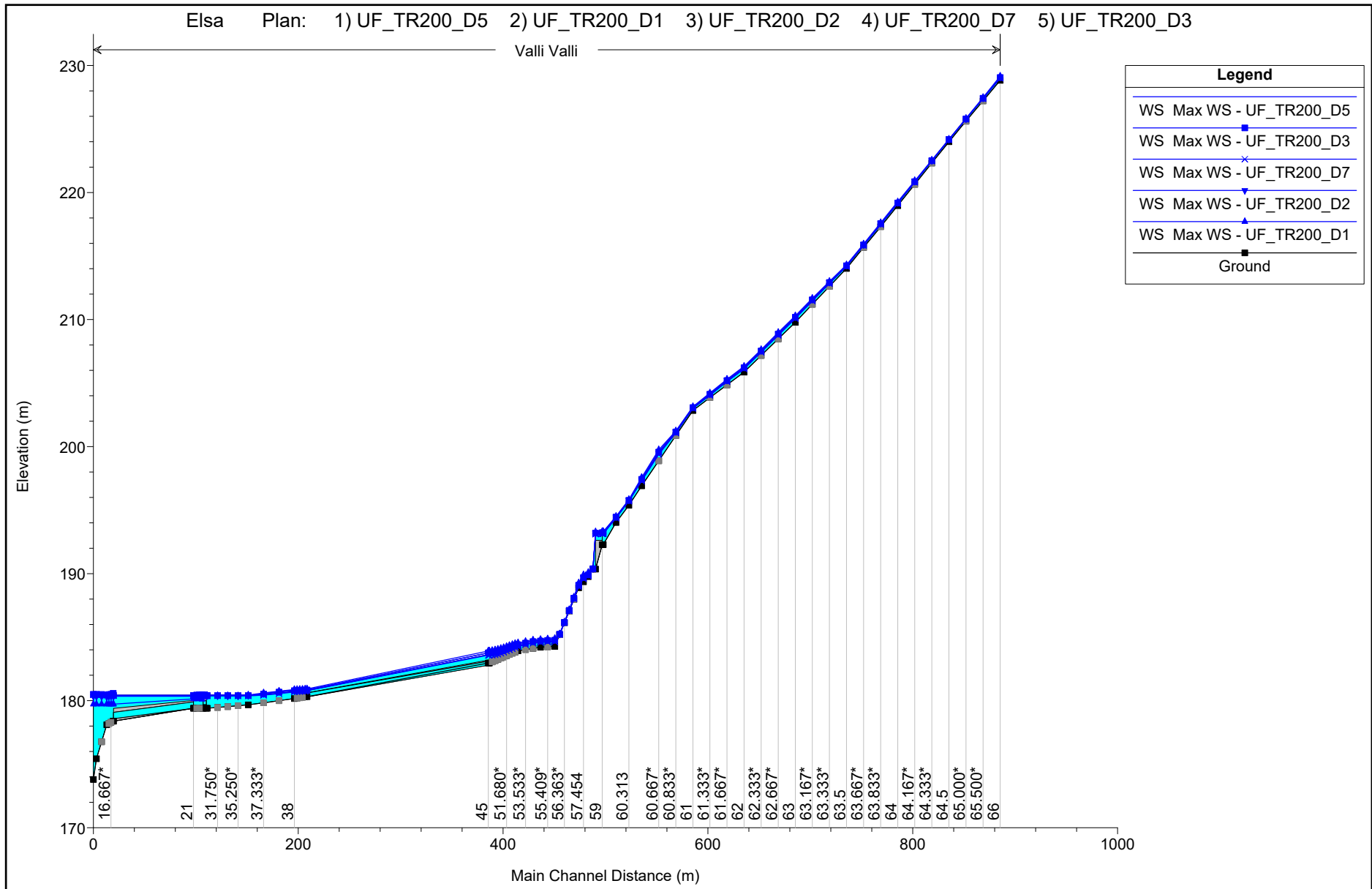
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FOSSO PODERE VALLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Profilo longitudinale



ALLEGATI

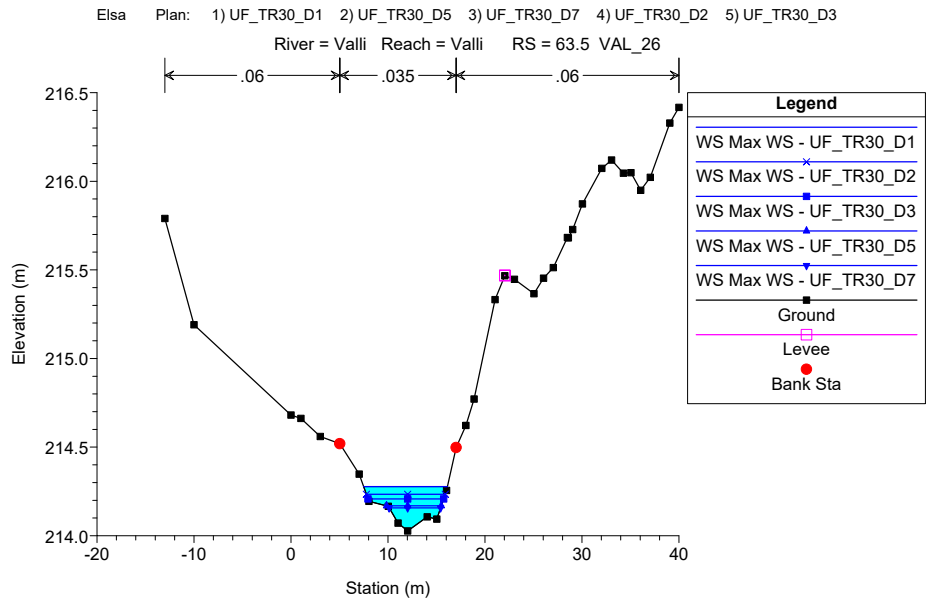
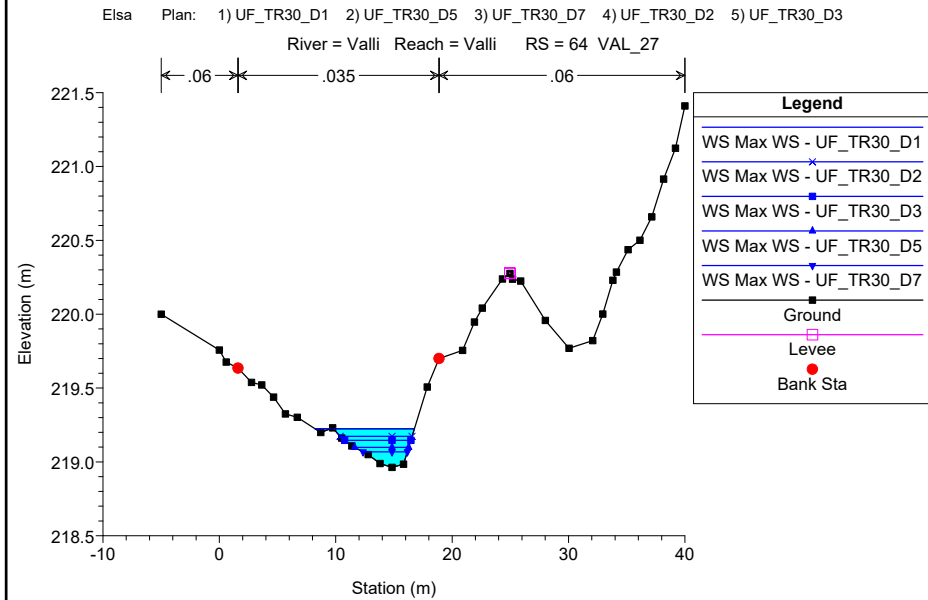
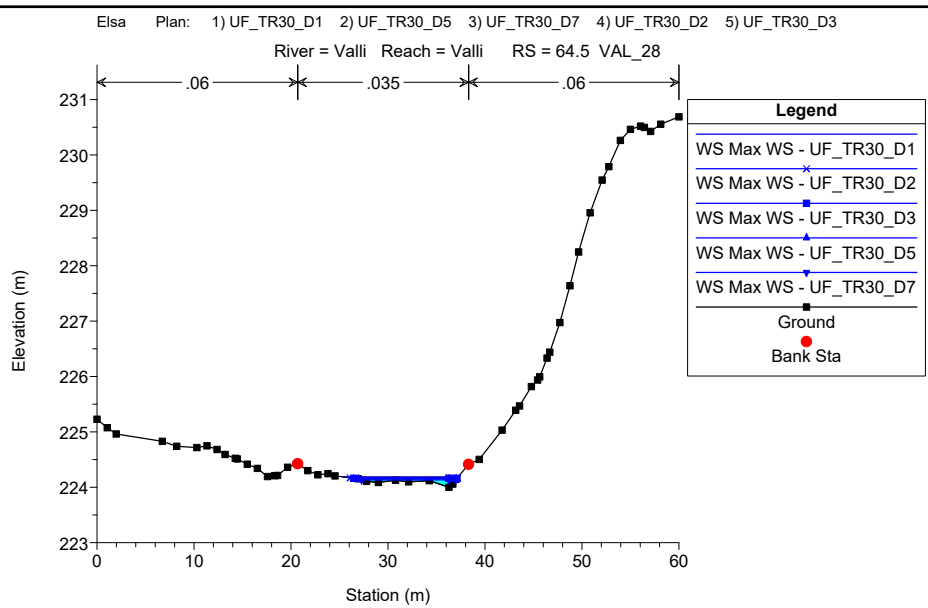
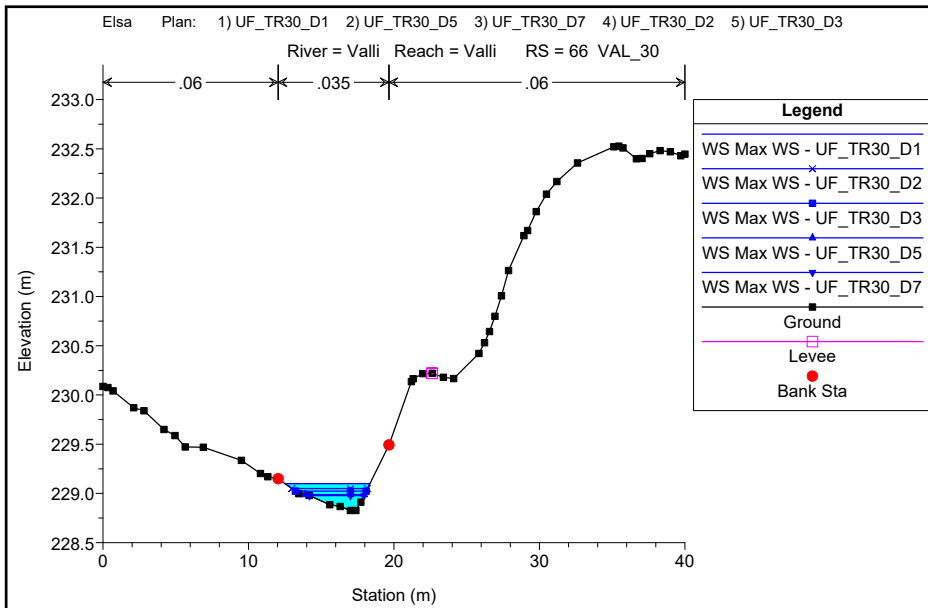
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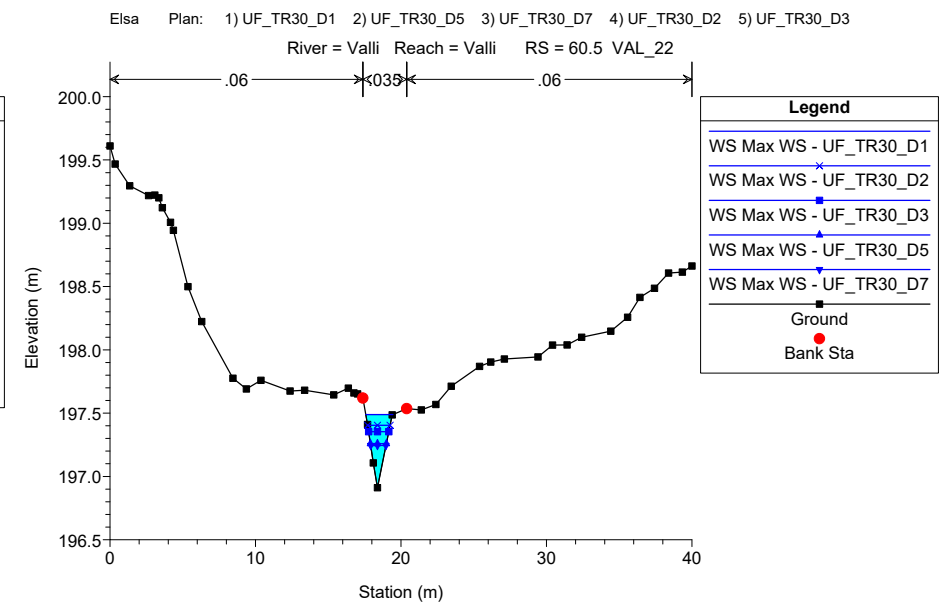
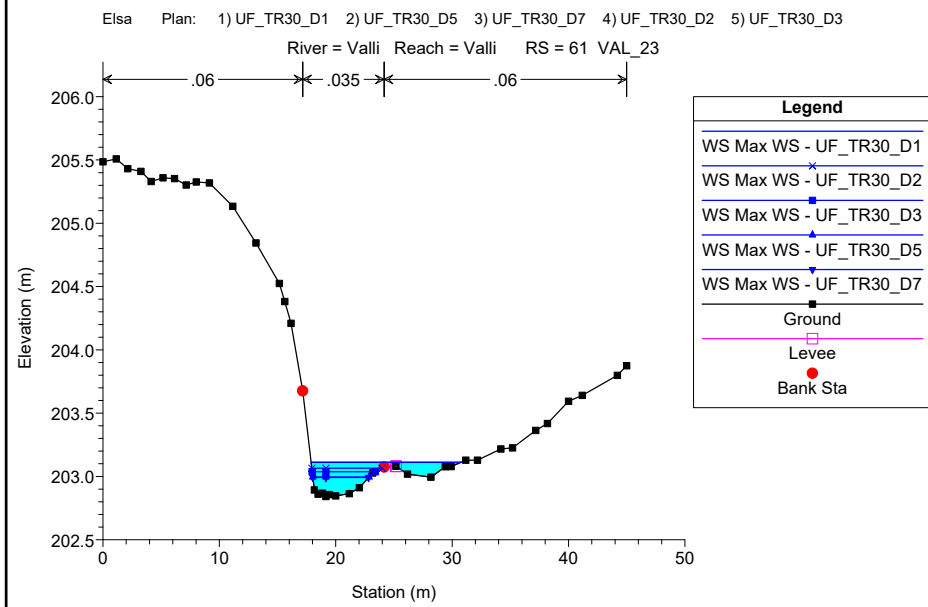
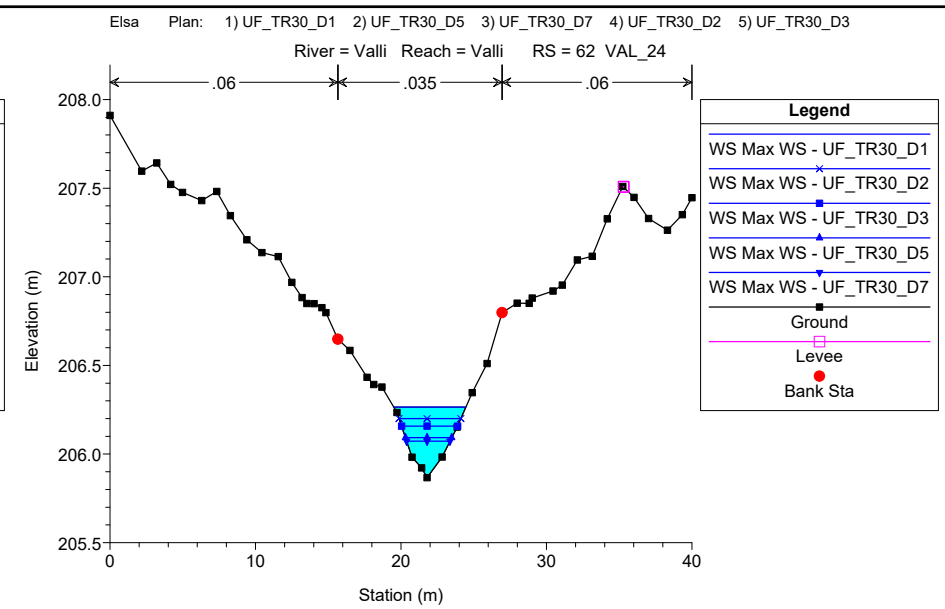
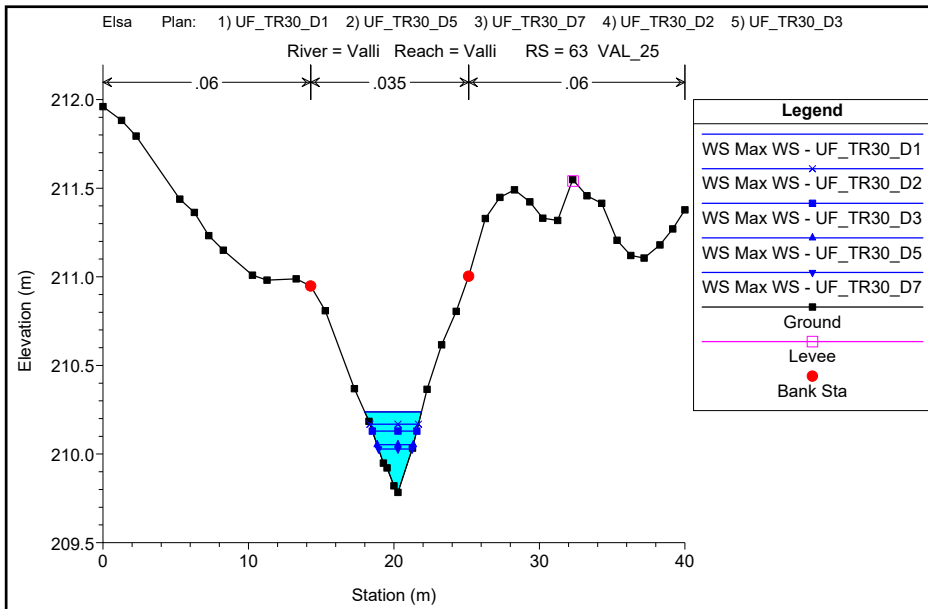
FOSSO PODERE VALLI

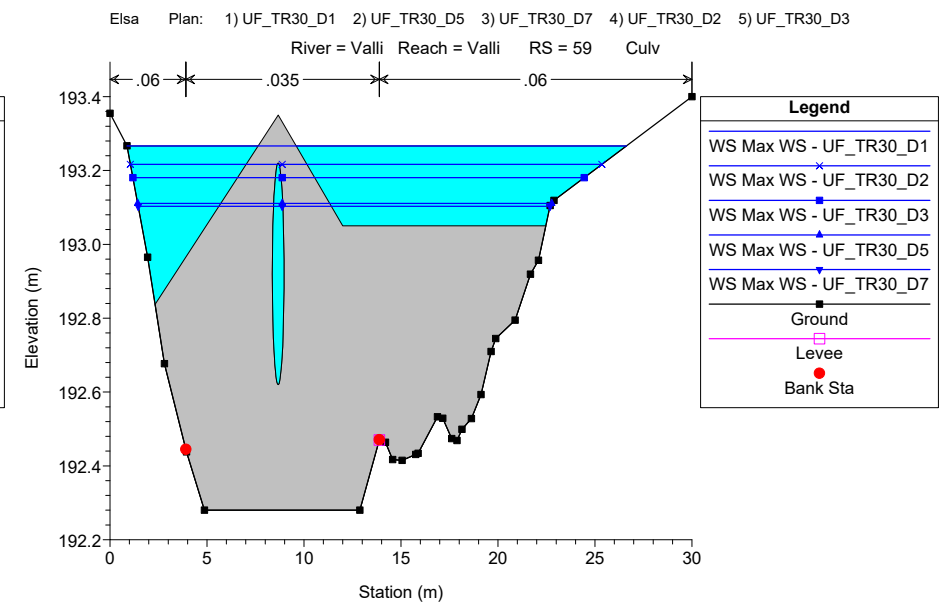
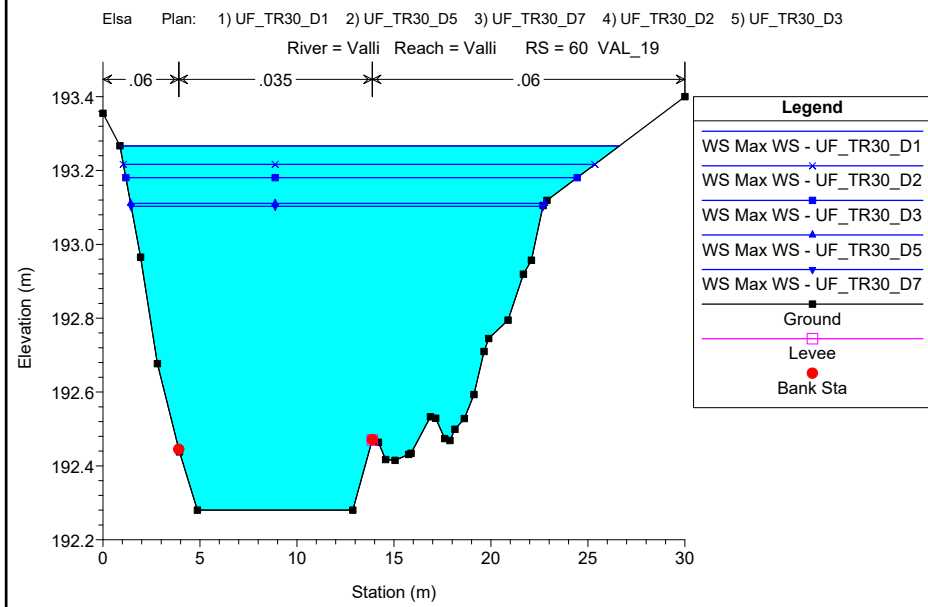
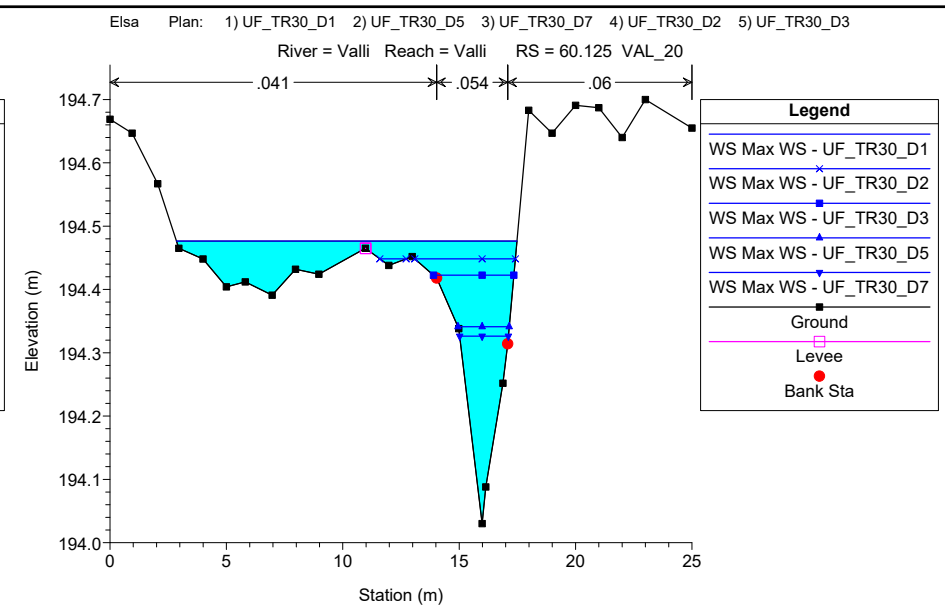
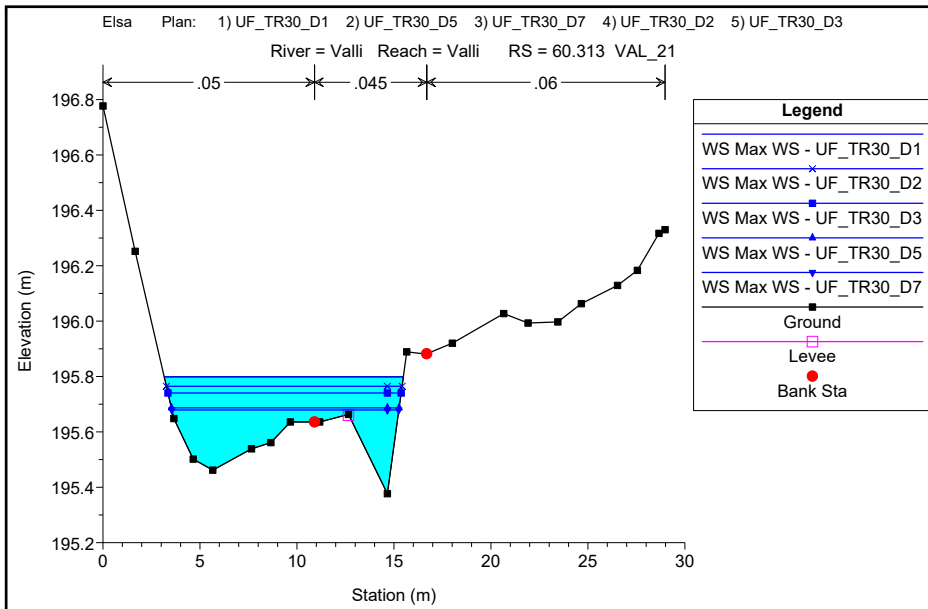
MODELLAZIONE PER TR=30 anni

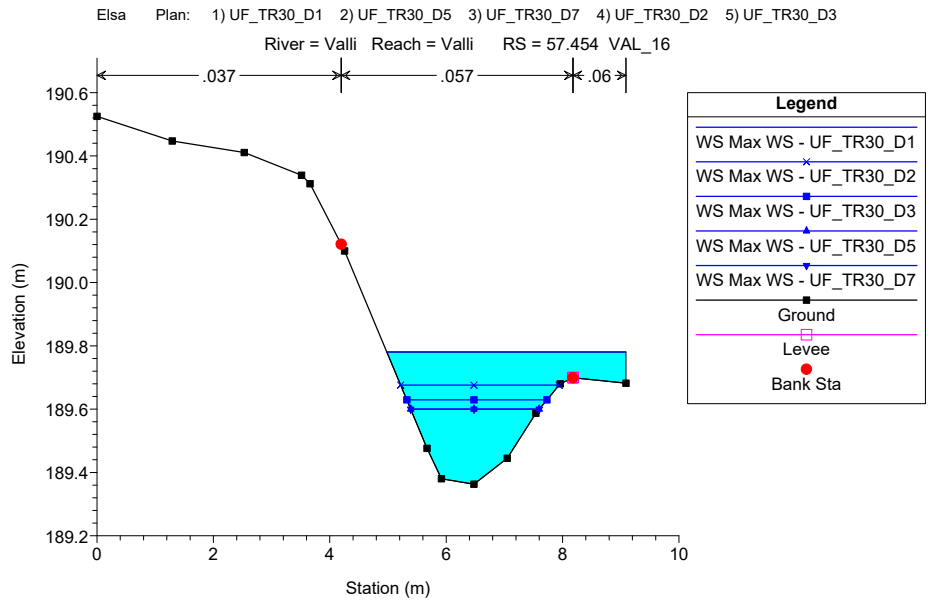
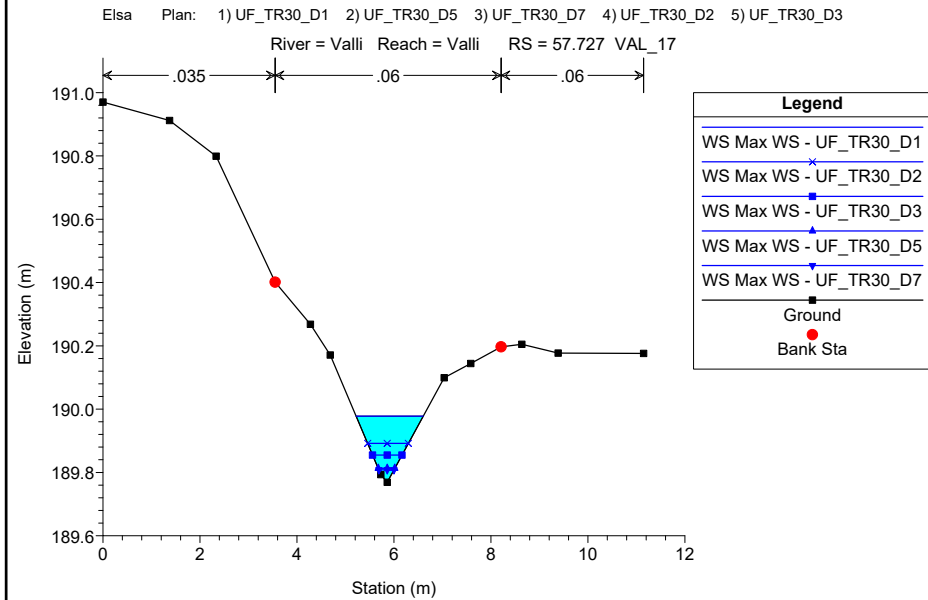
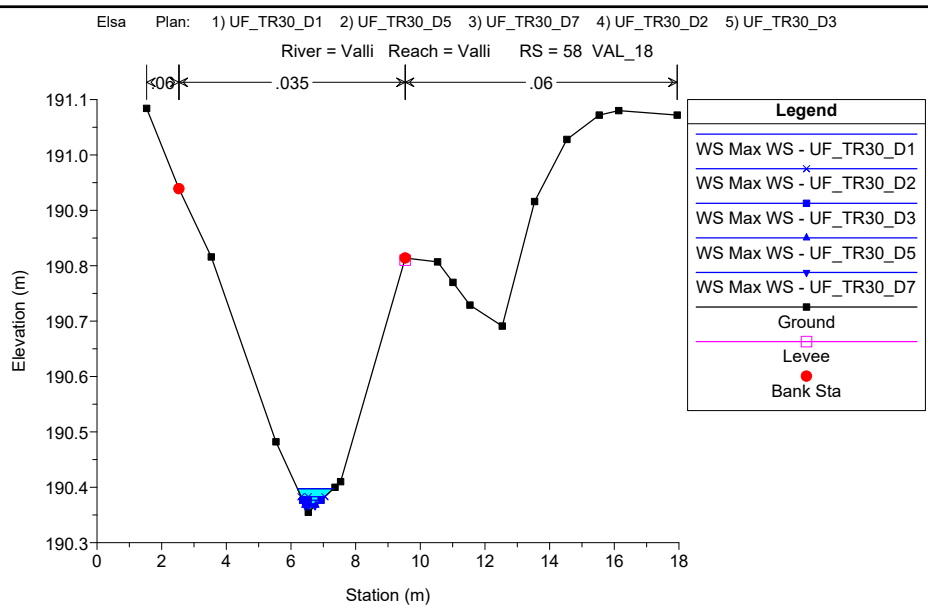
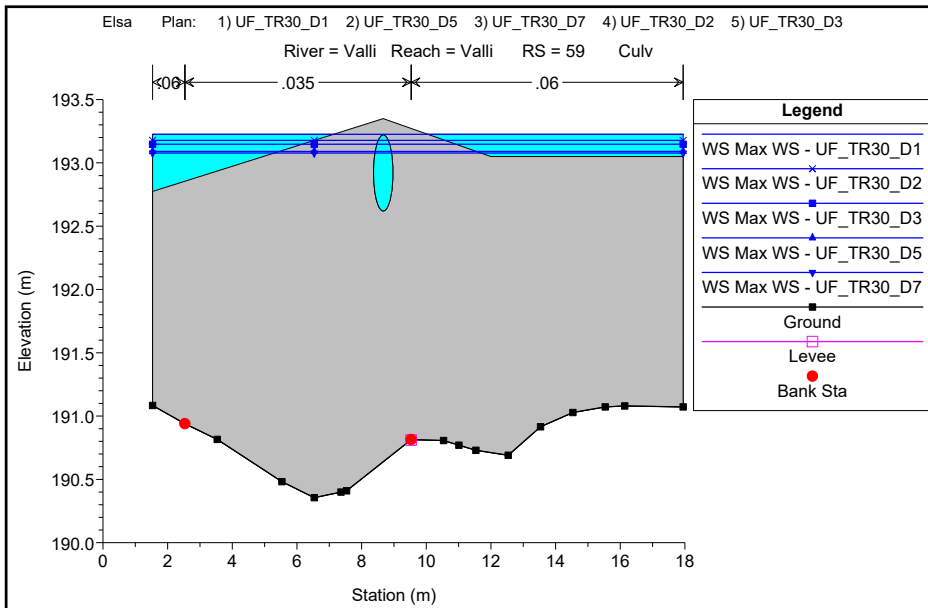
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

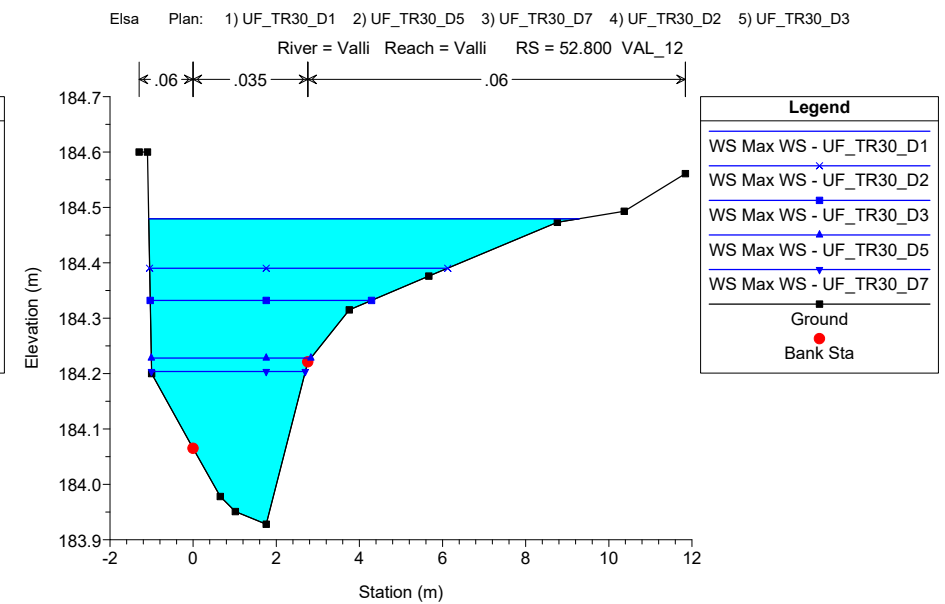
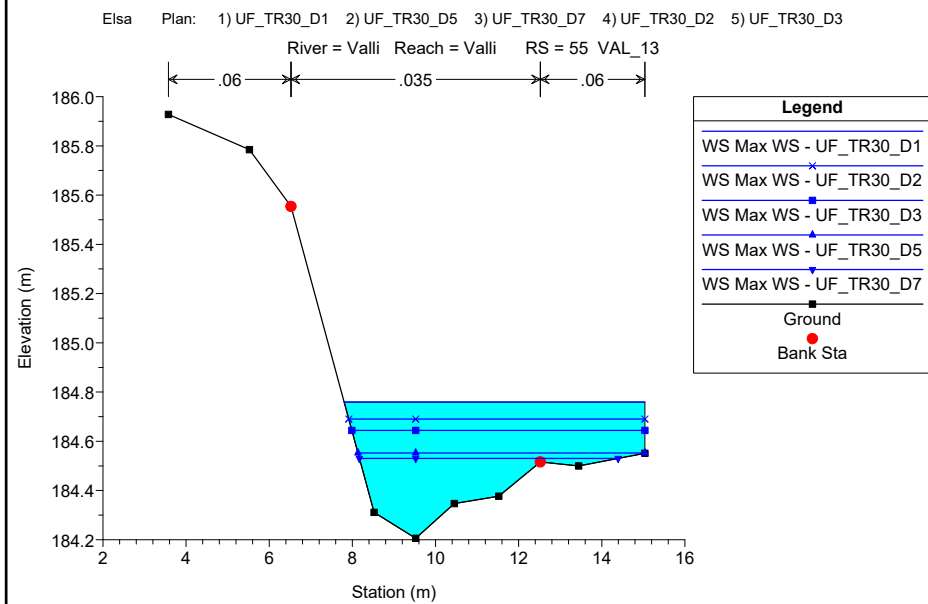
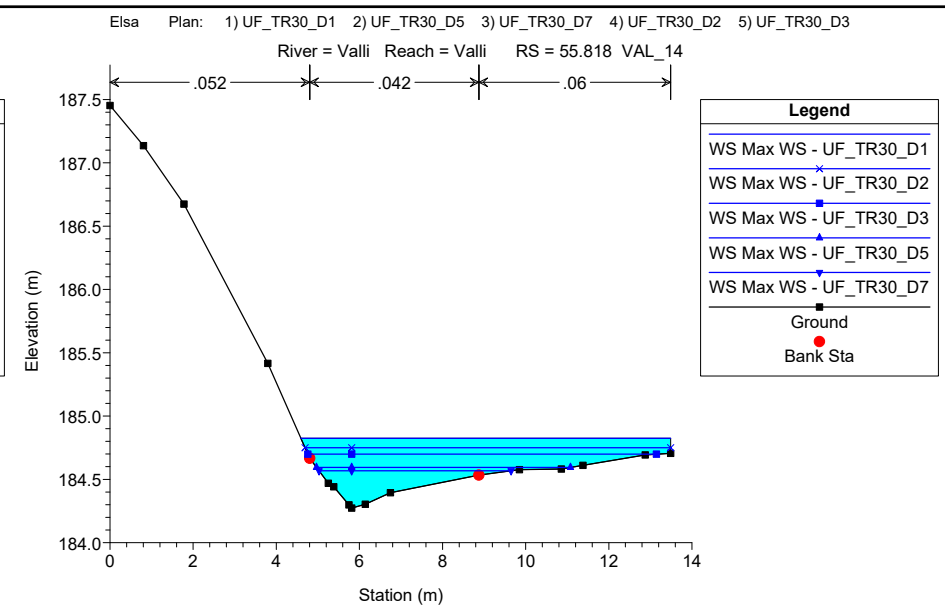
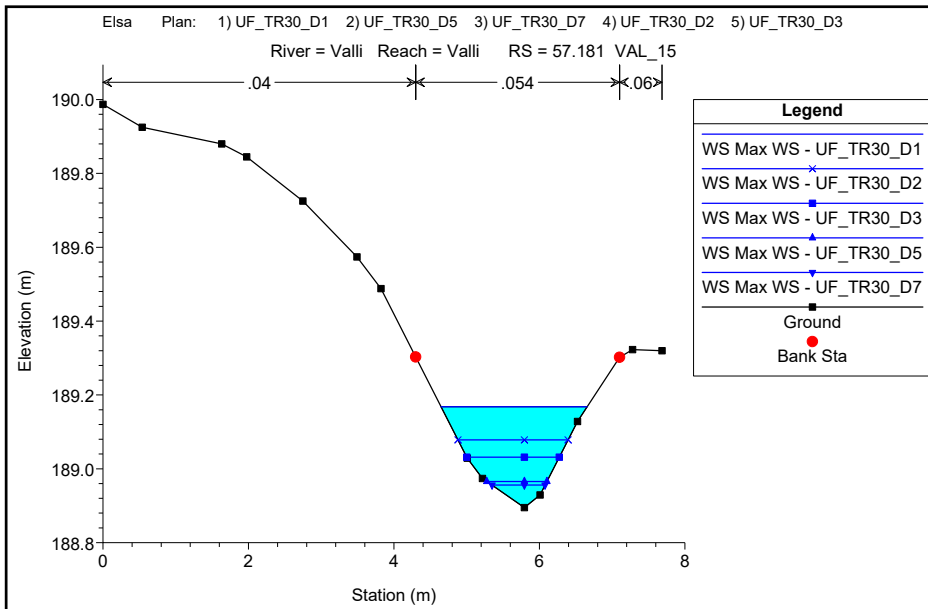
Sezioni Trasversali (da monte verso valle)

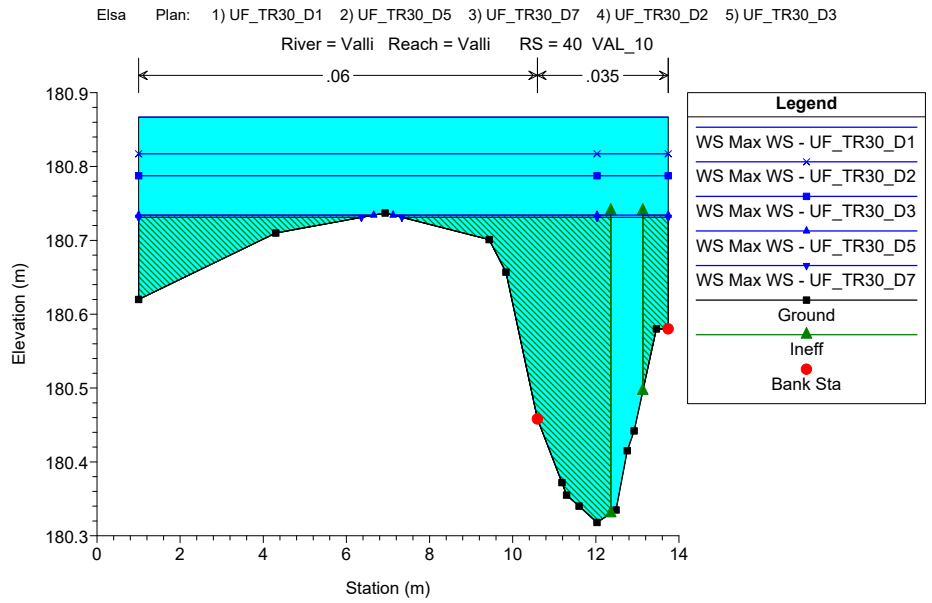
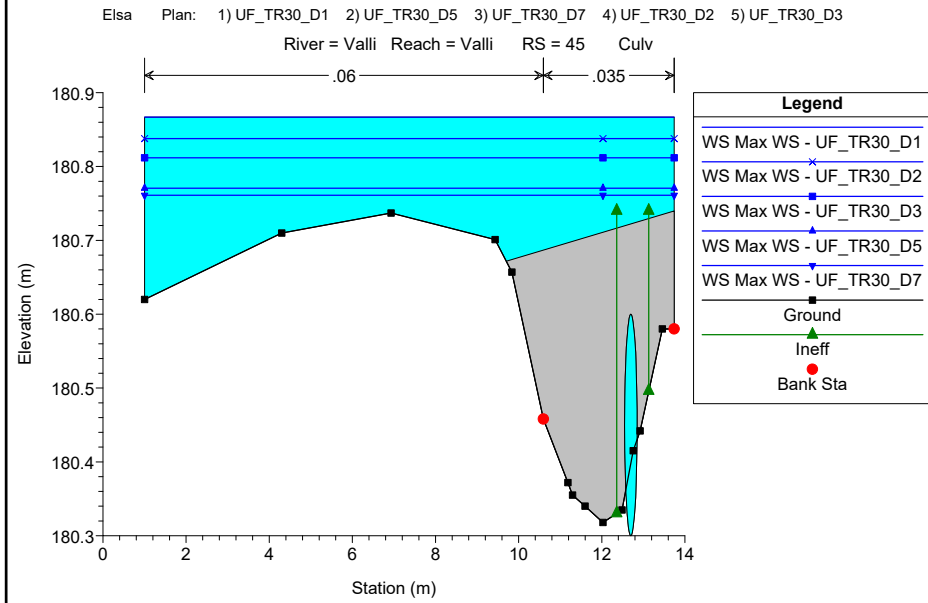
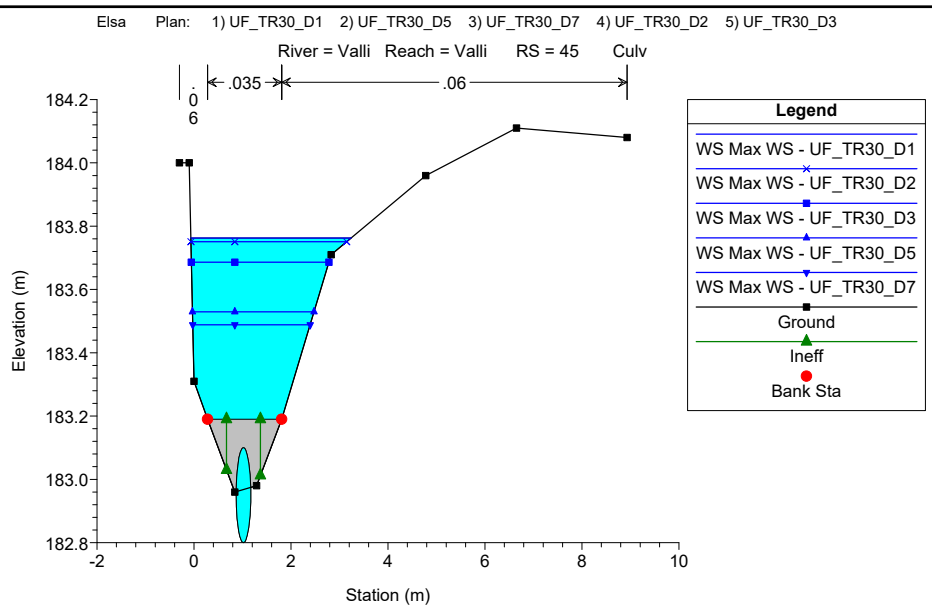
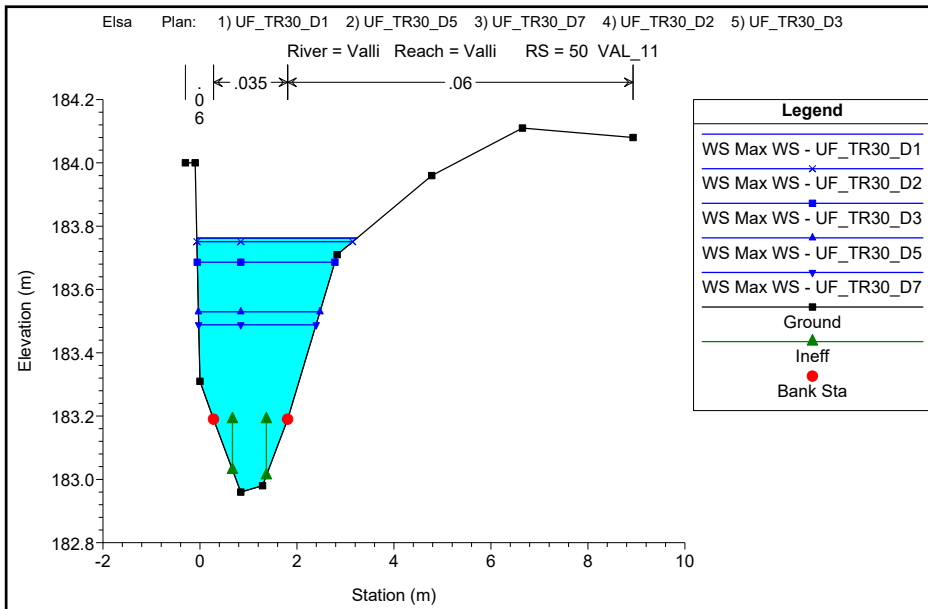


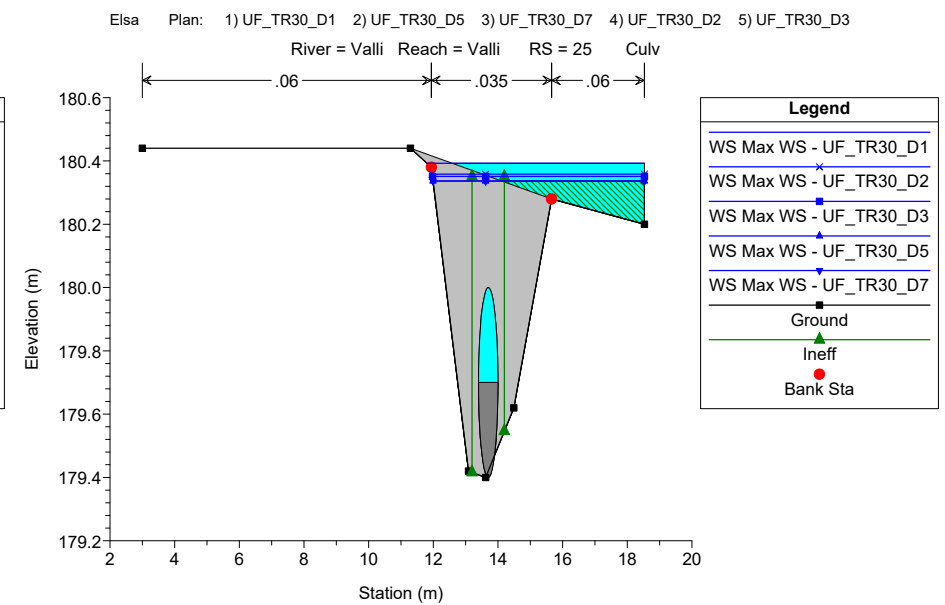
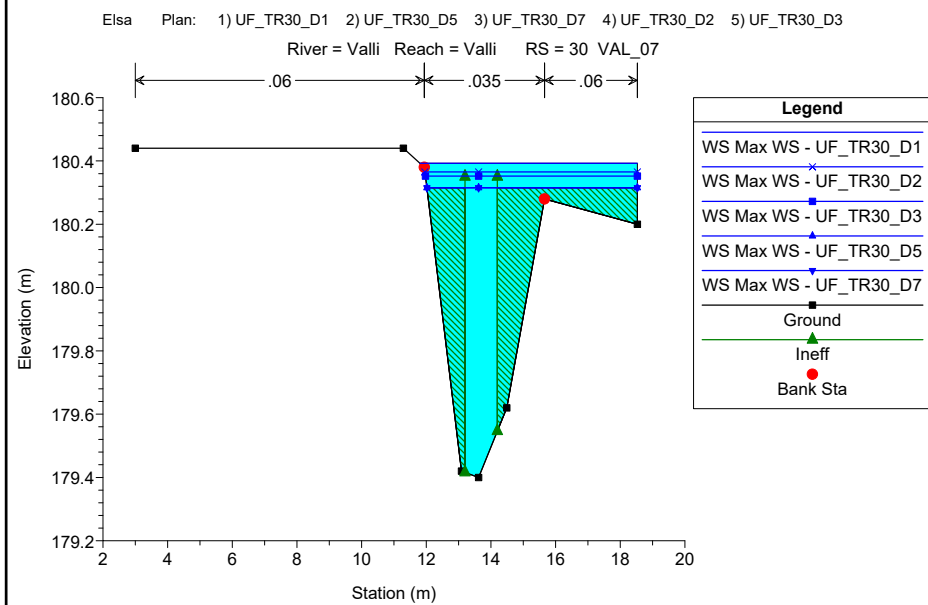
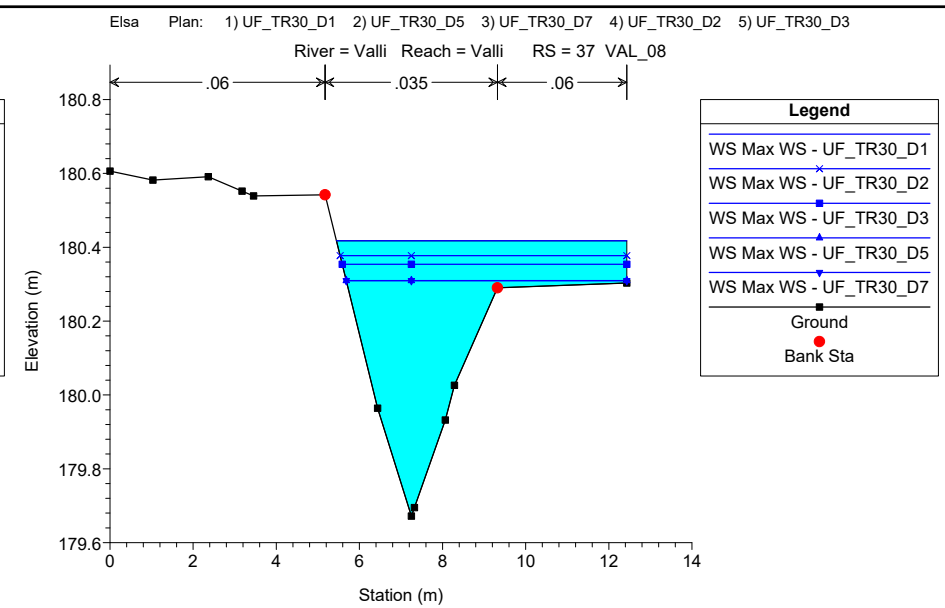
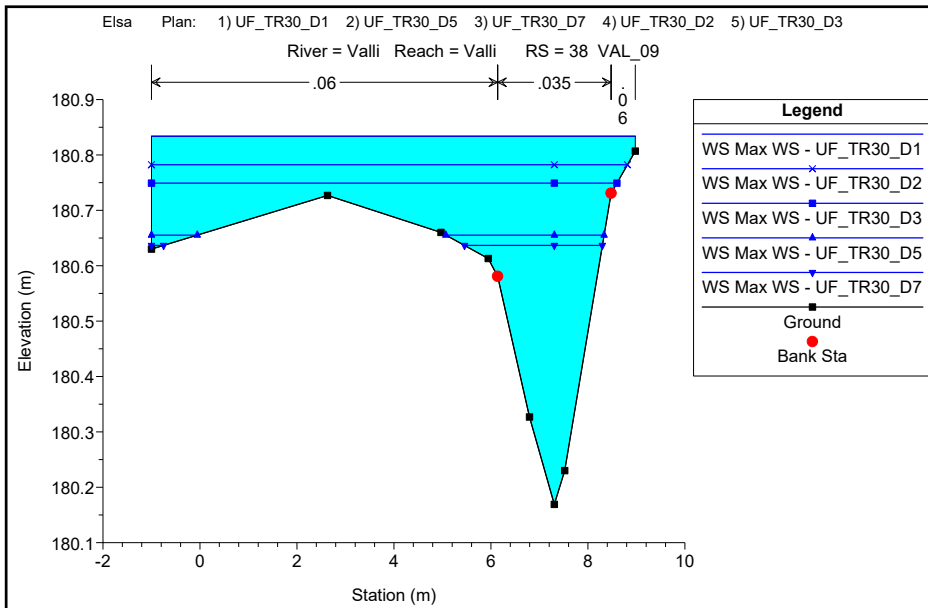


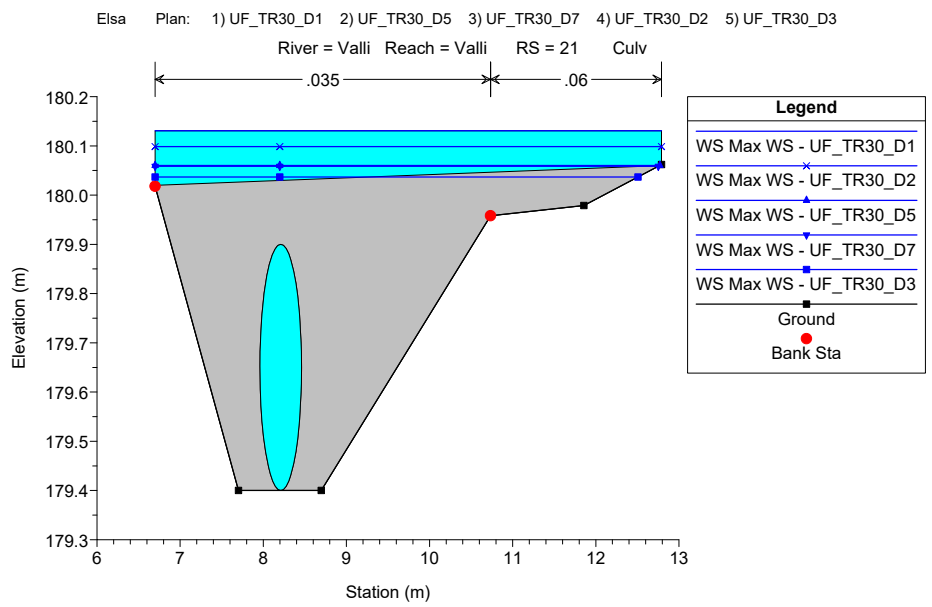
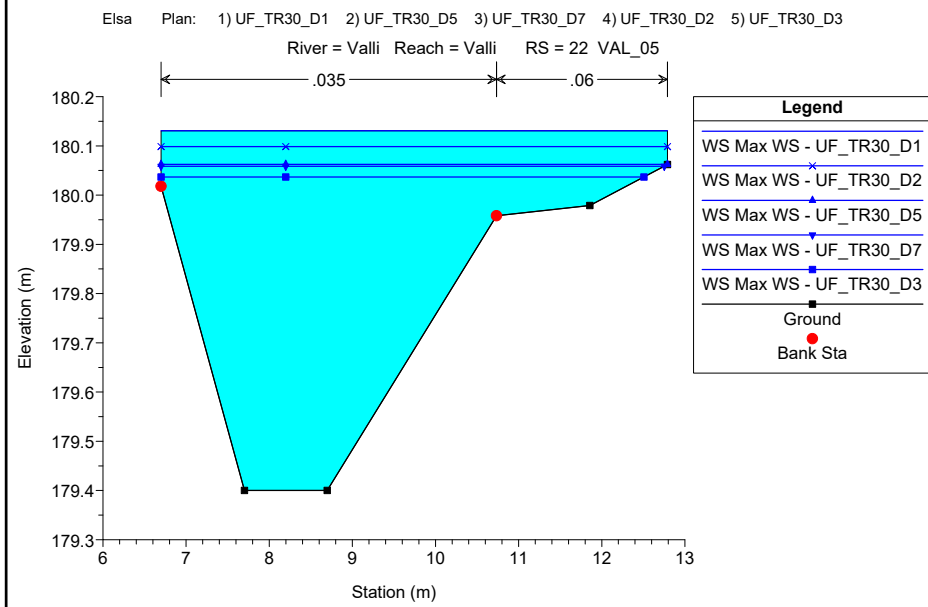
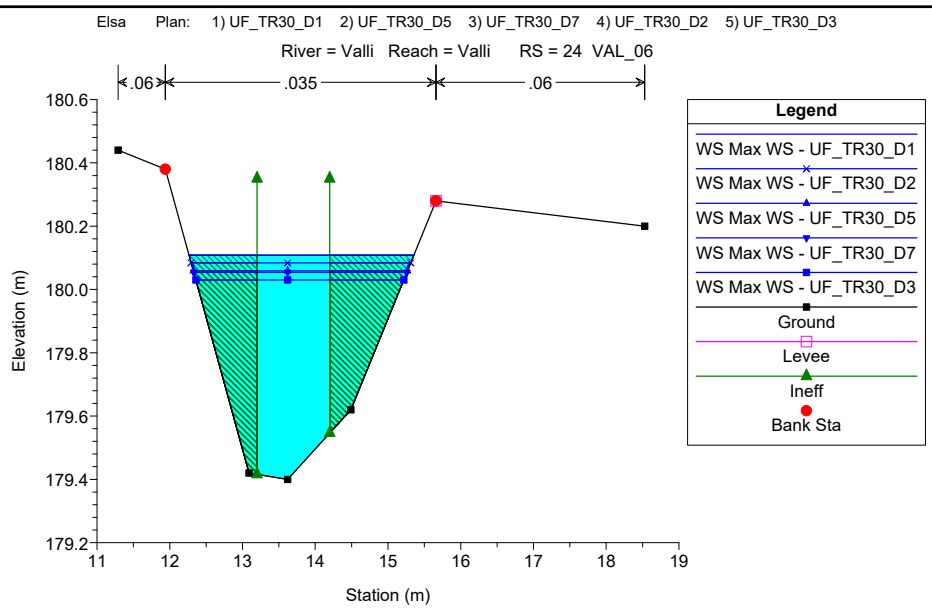
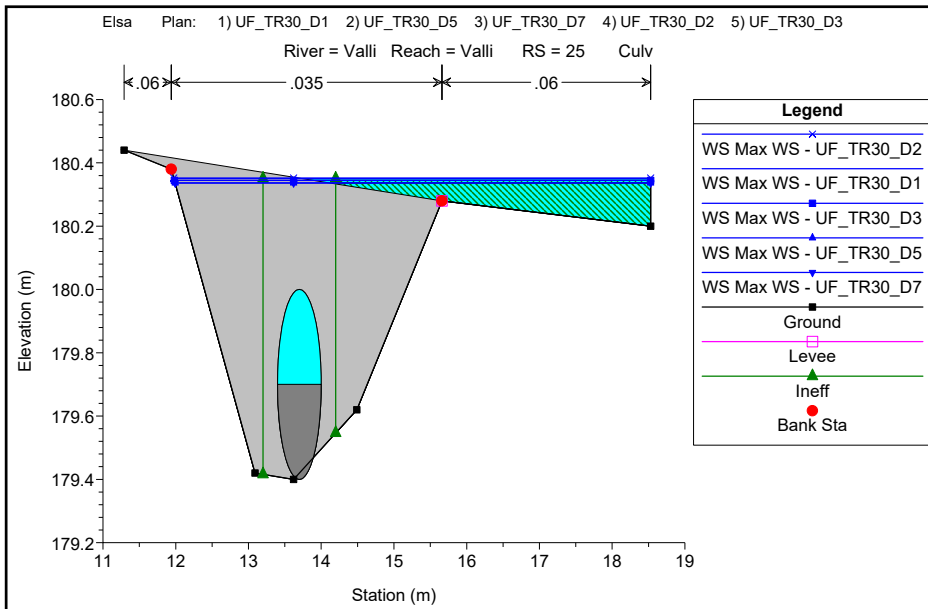


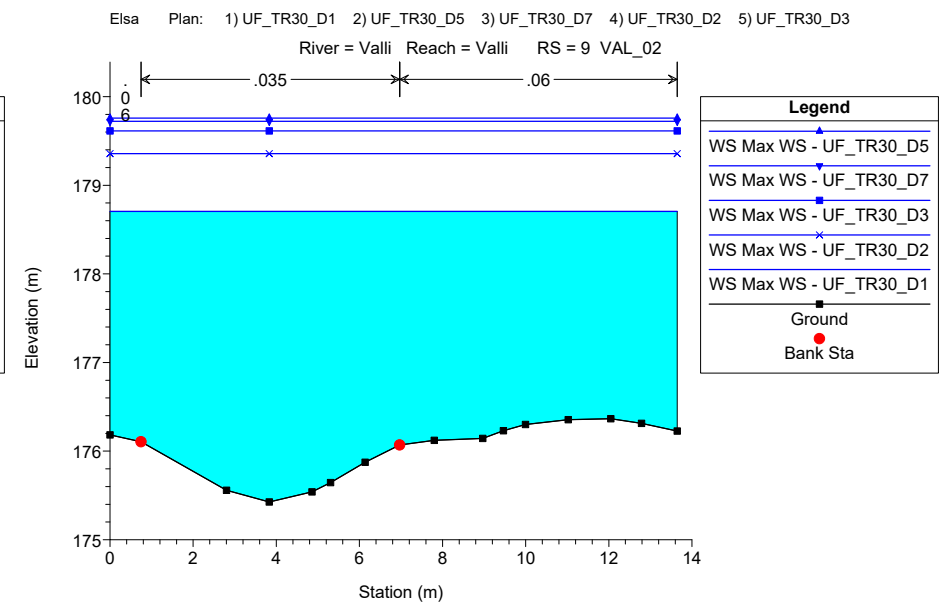
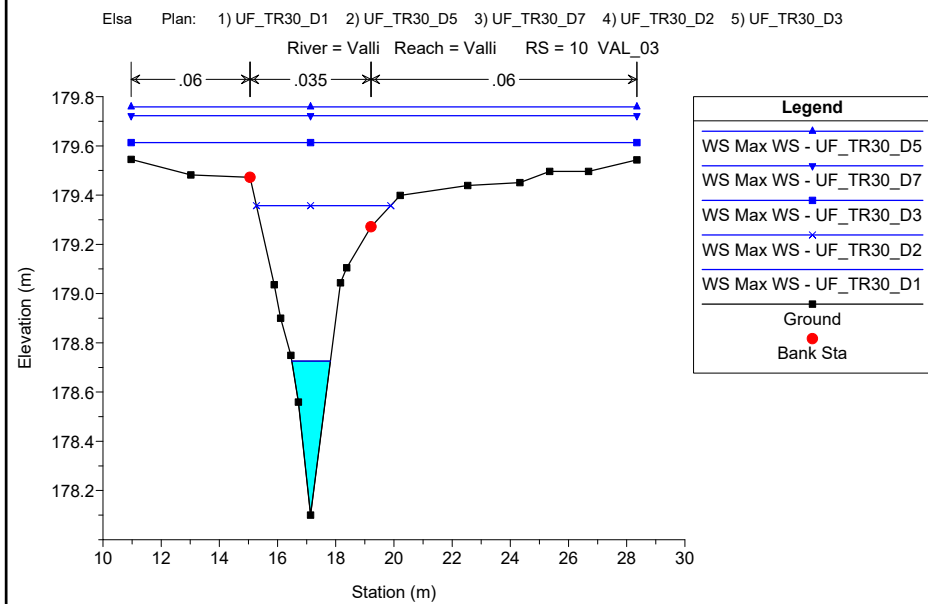
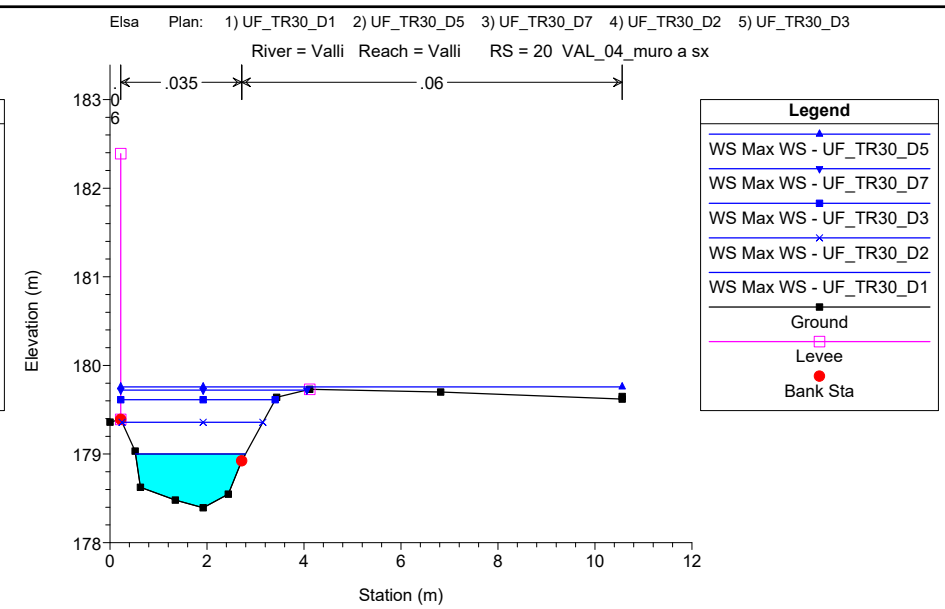
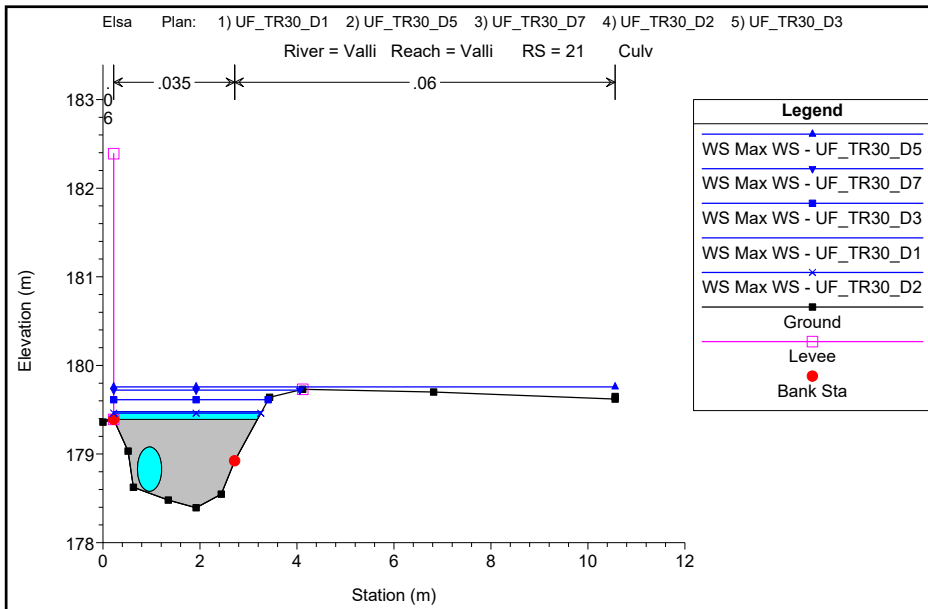


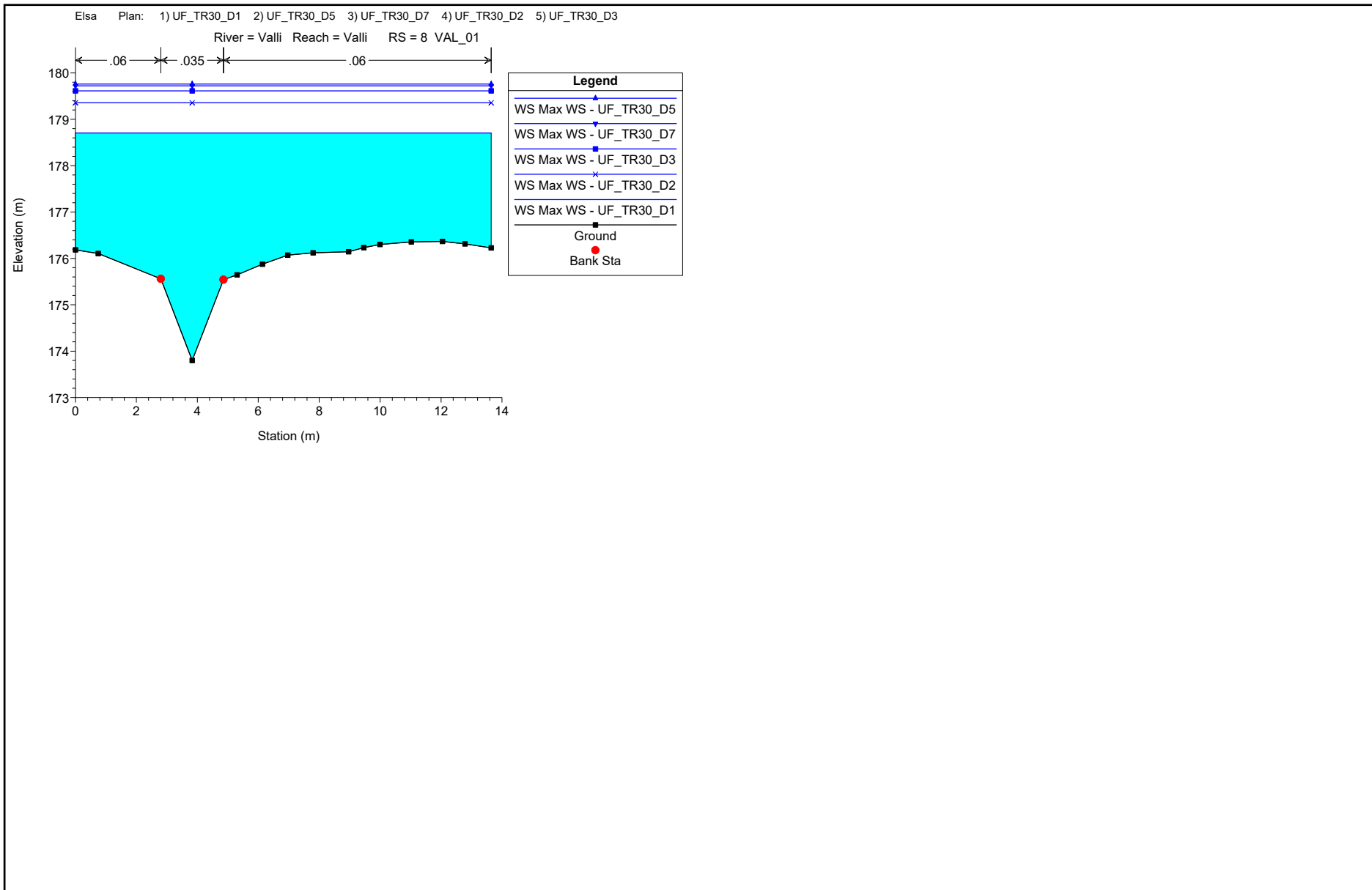












ALLEGATI

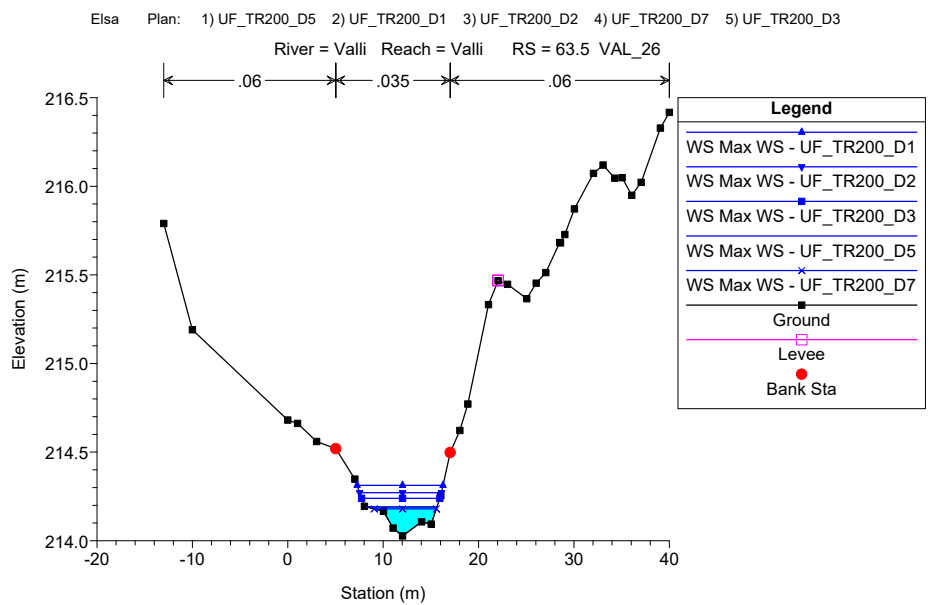
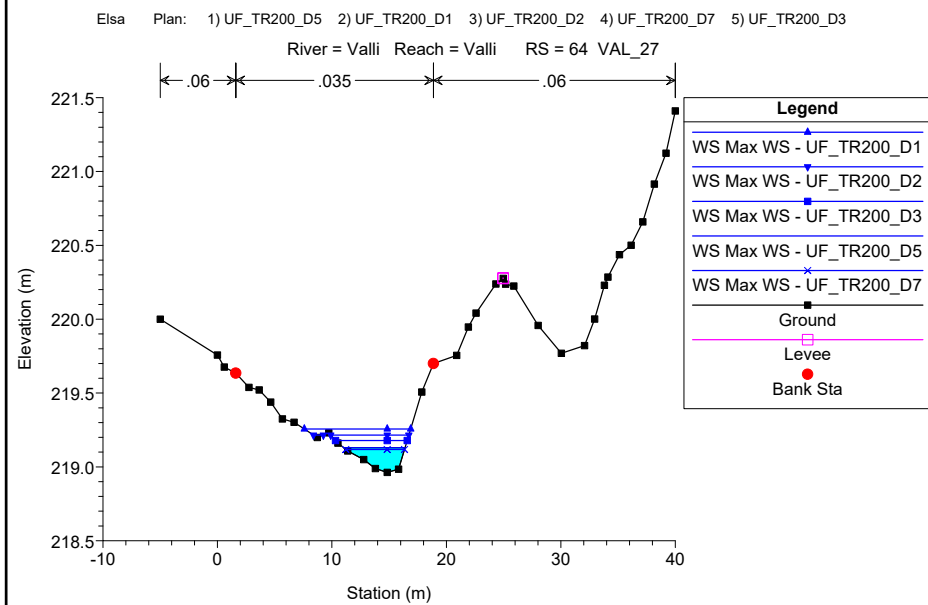
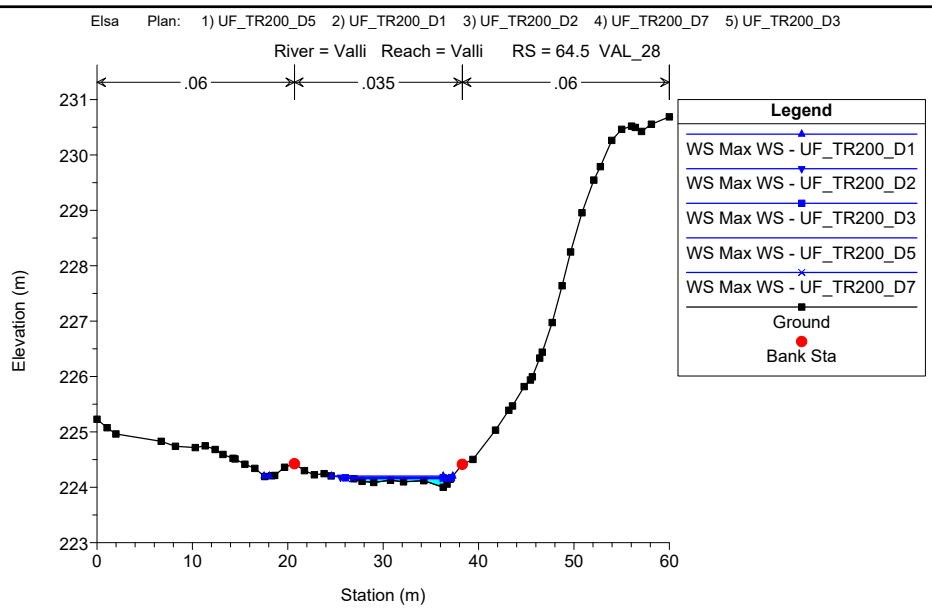
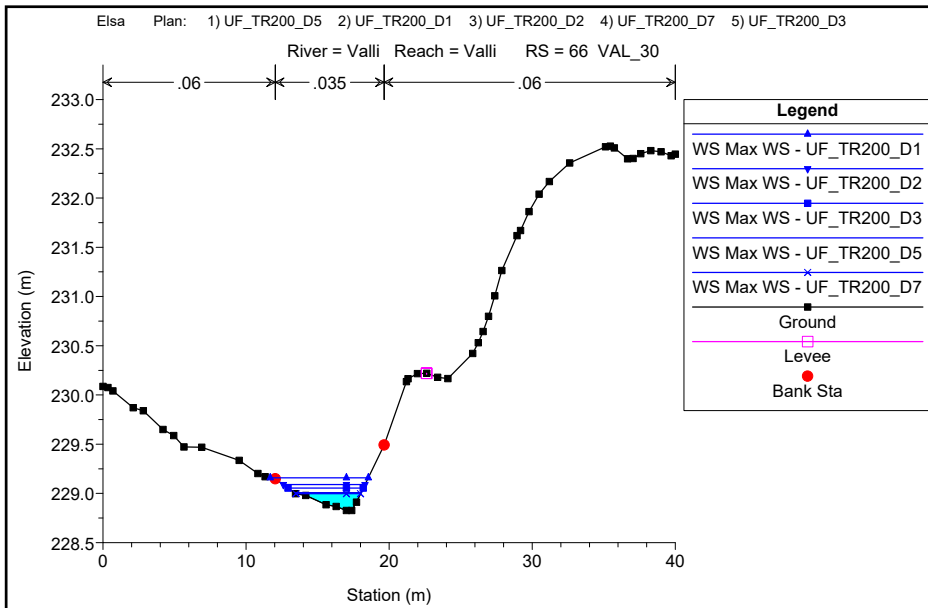
MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

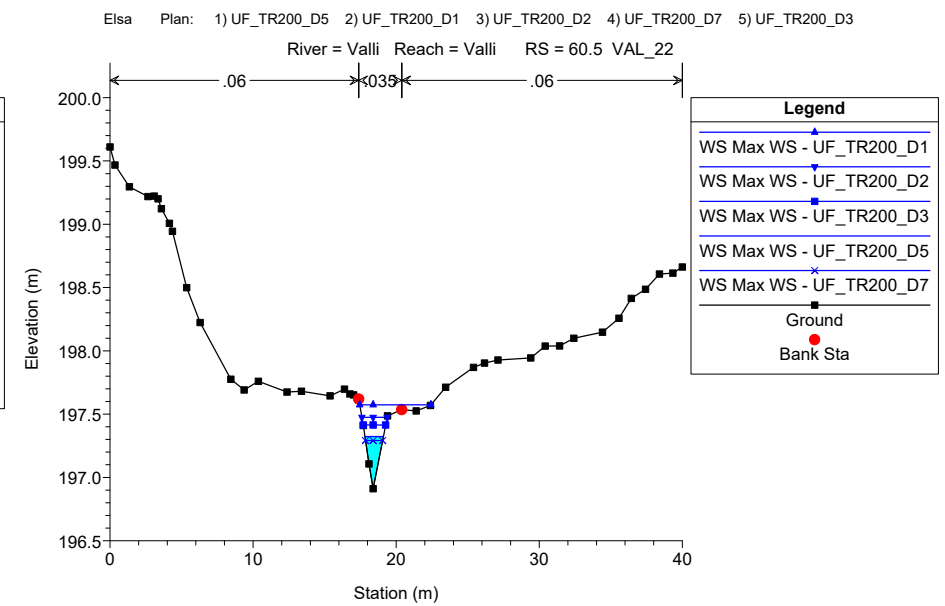
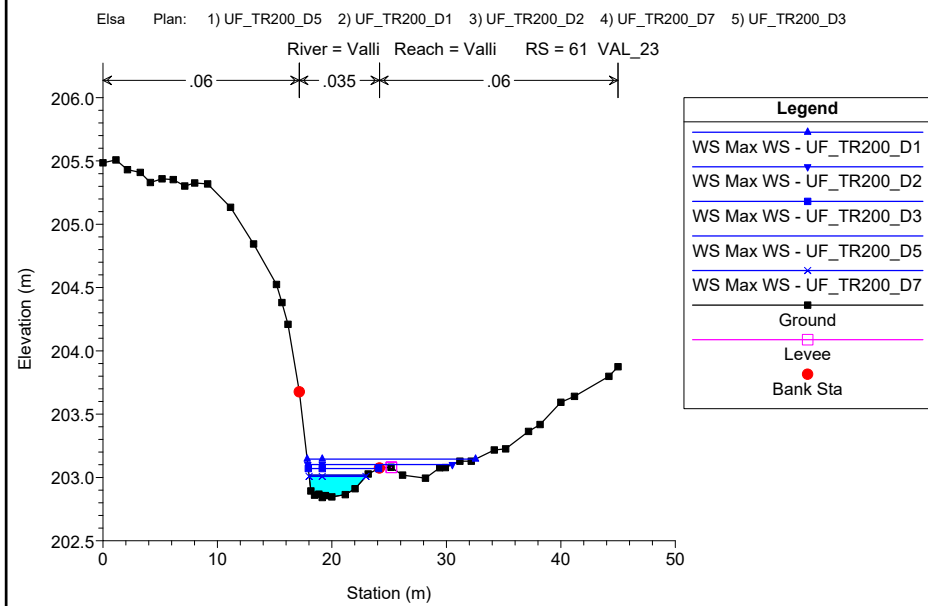
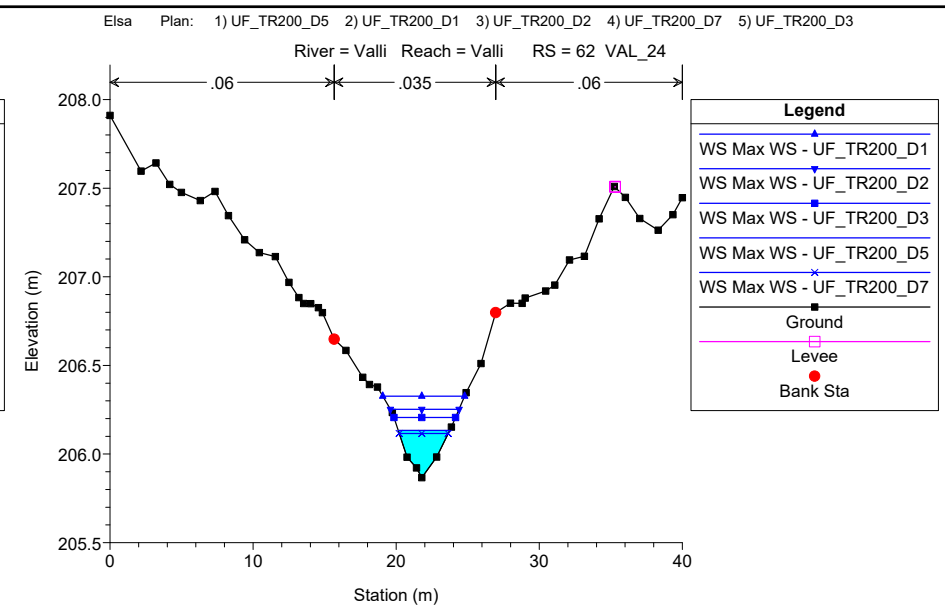
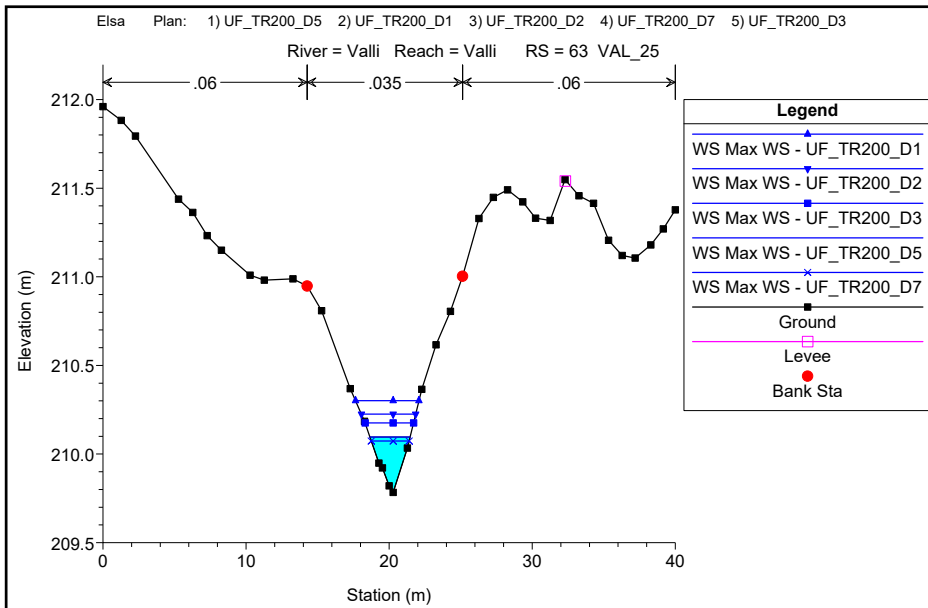
FOSSO PODERE VALLI

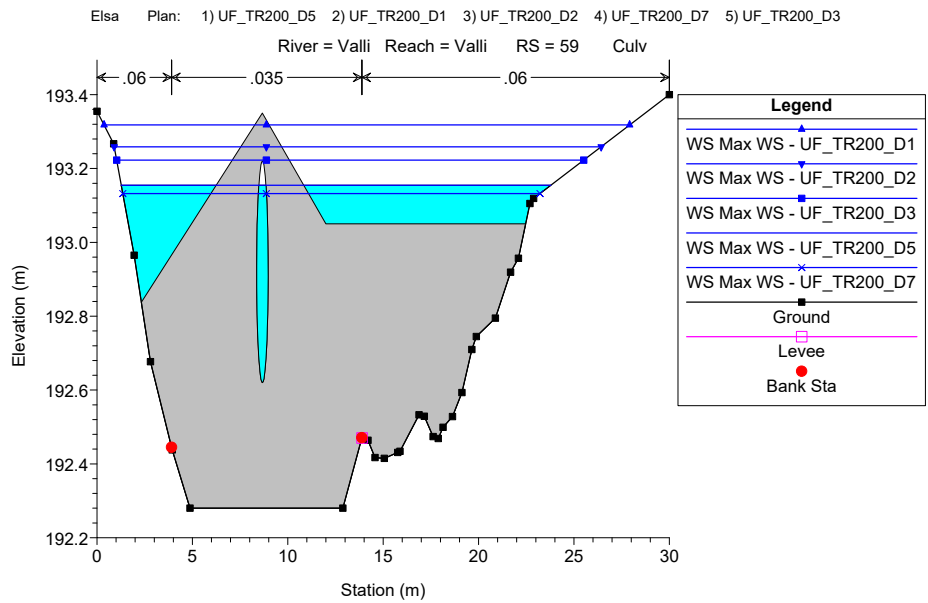
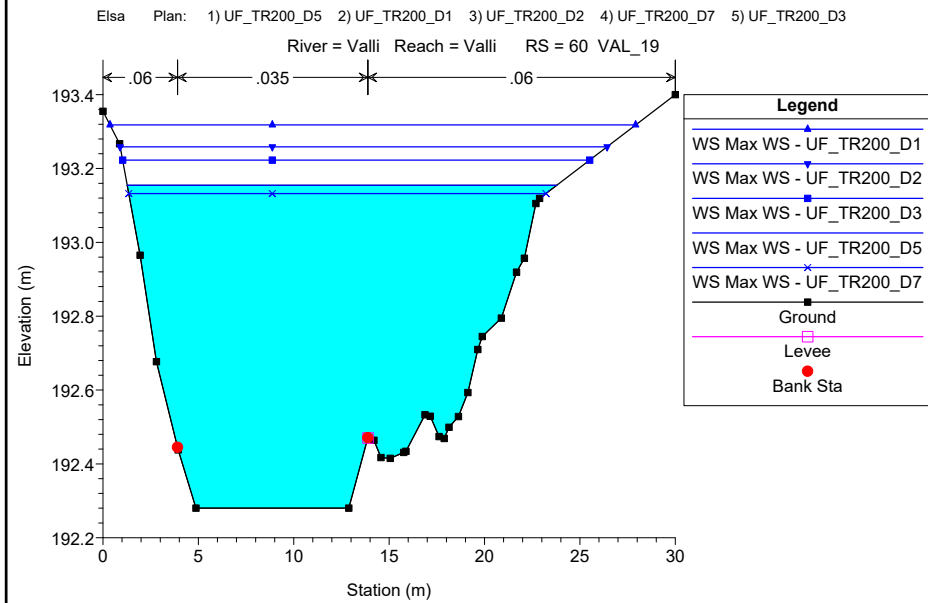
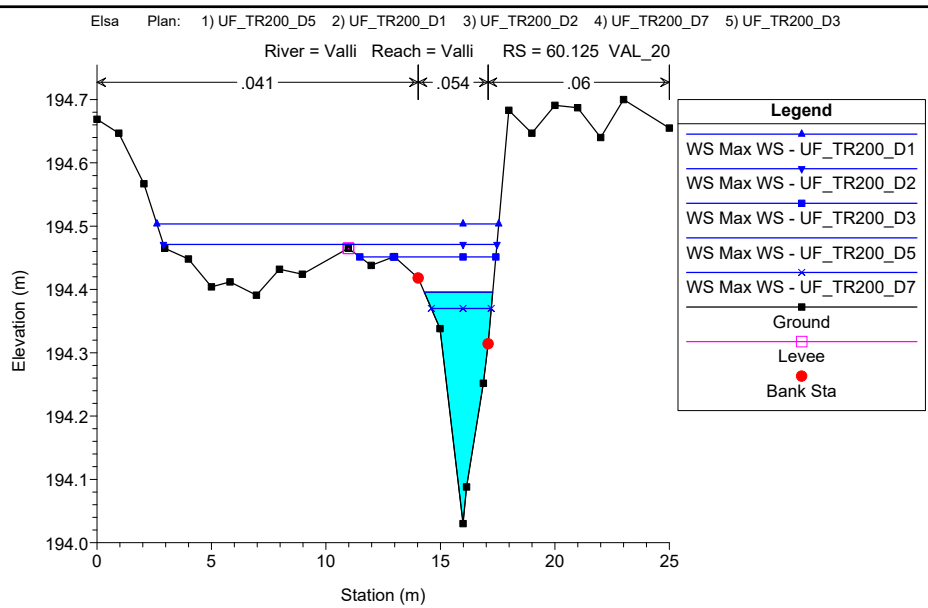
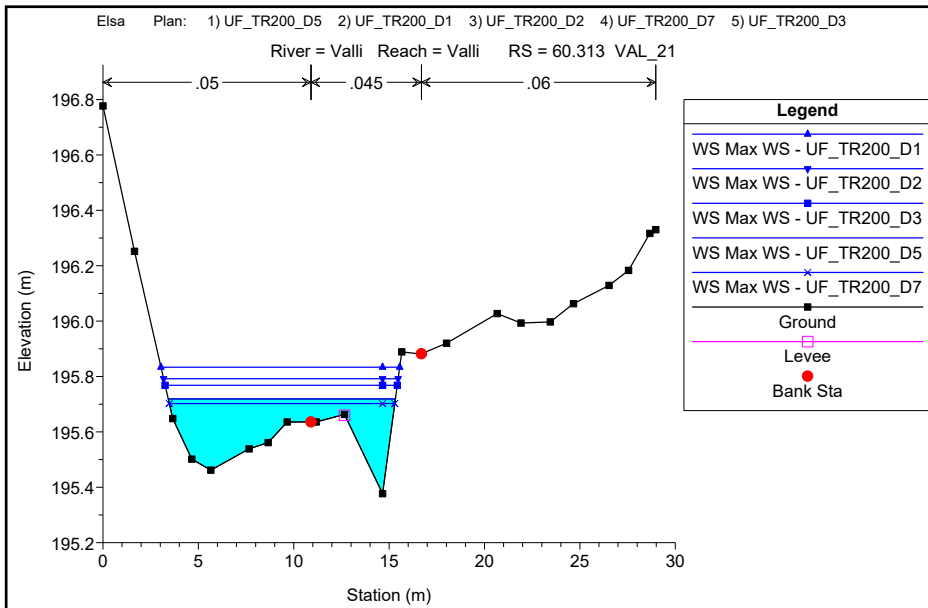
MODELLAZIONE PER TR=200 anni

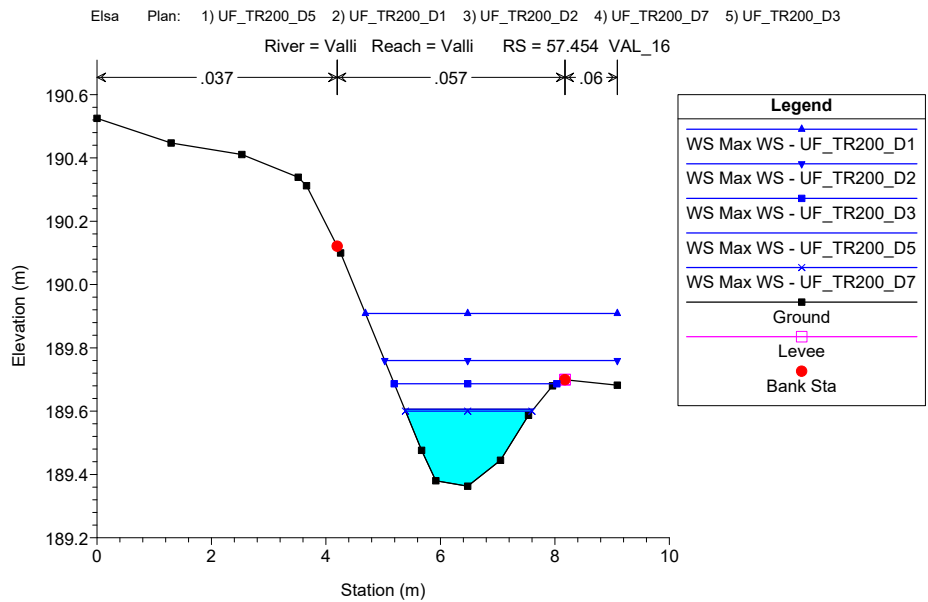
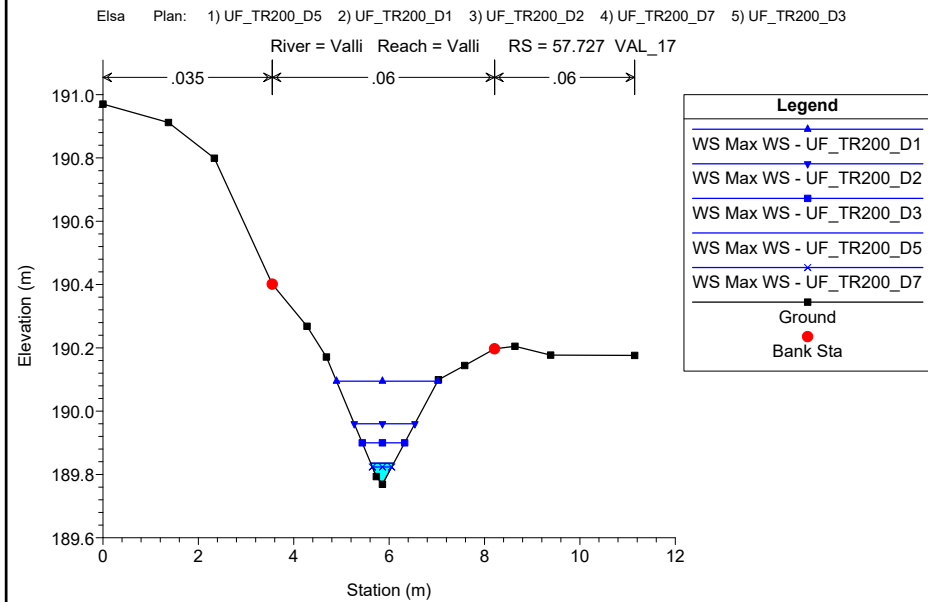
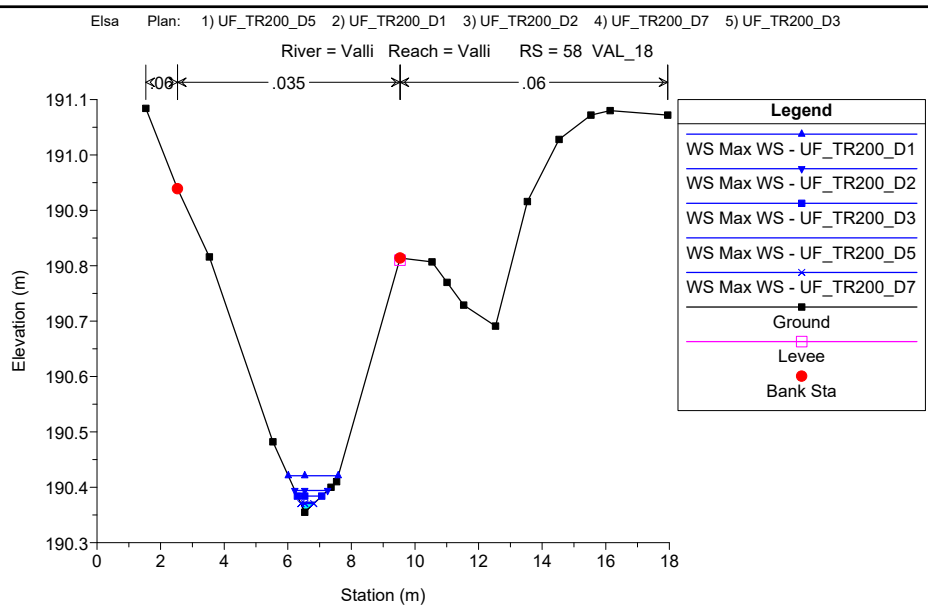
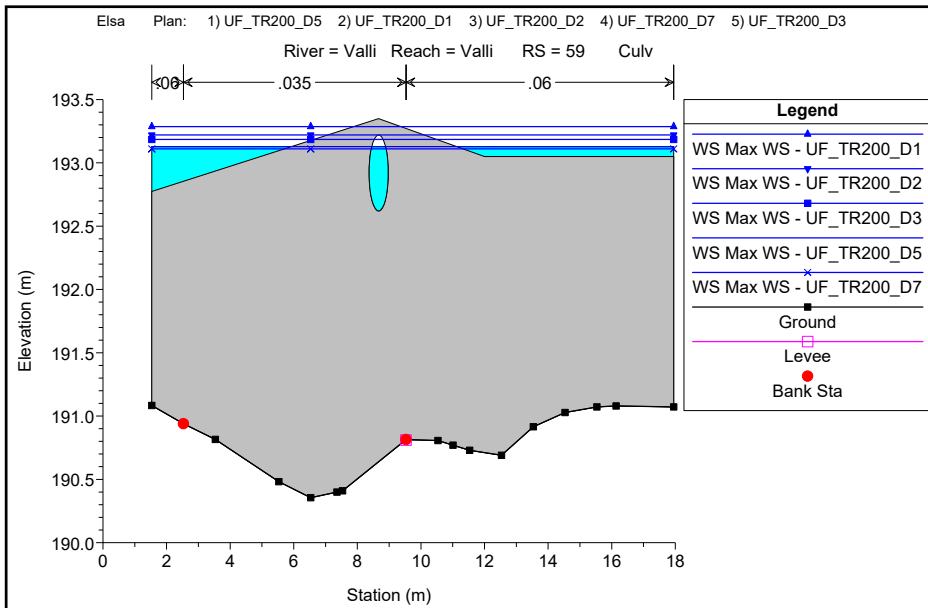
DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

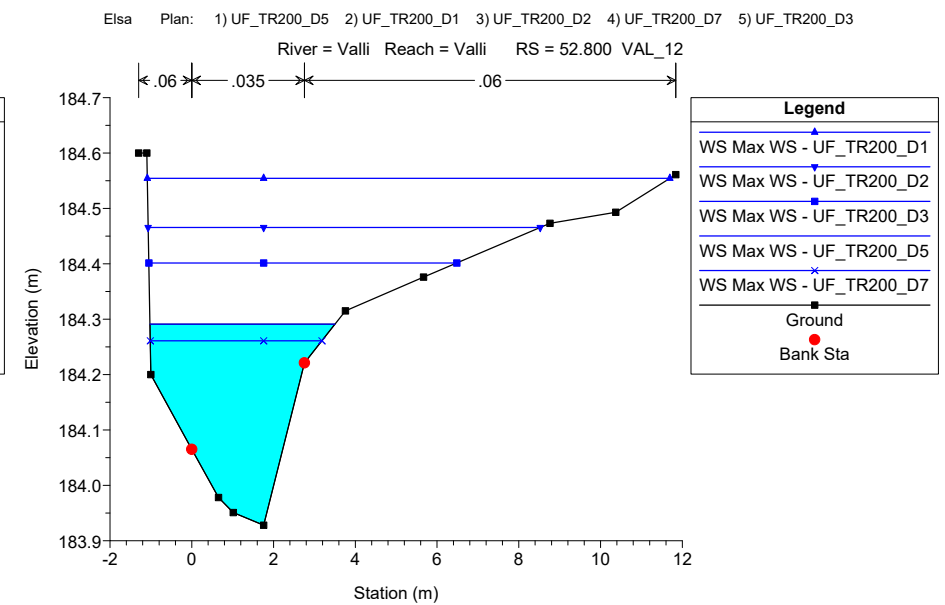
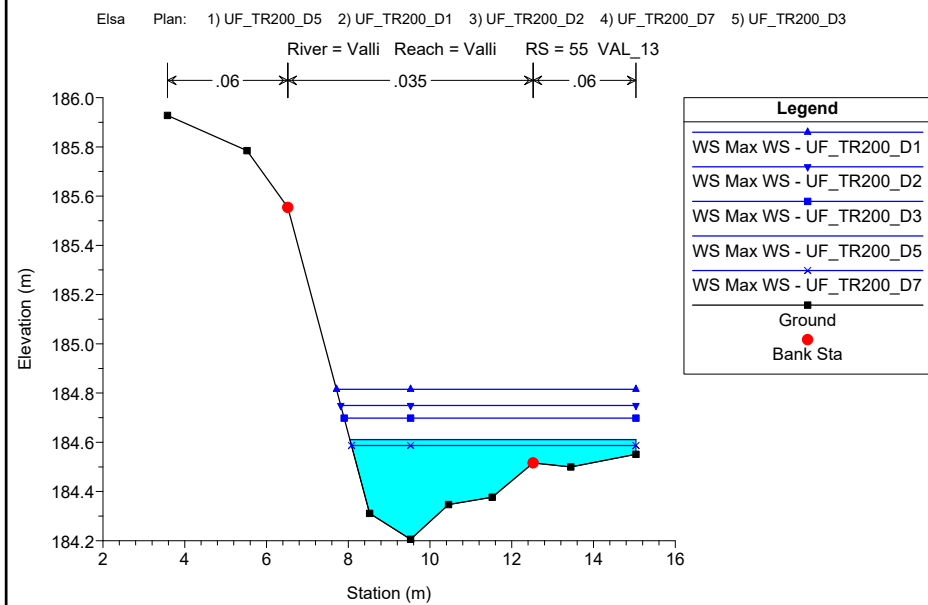
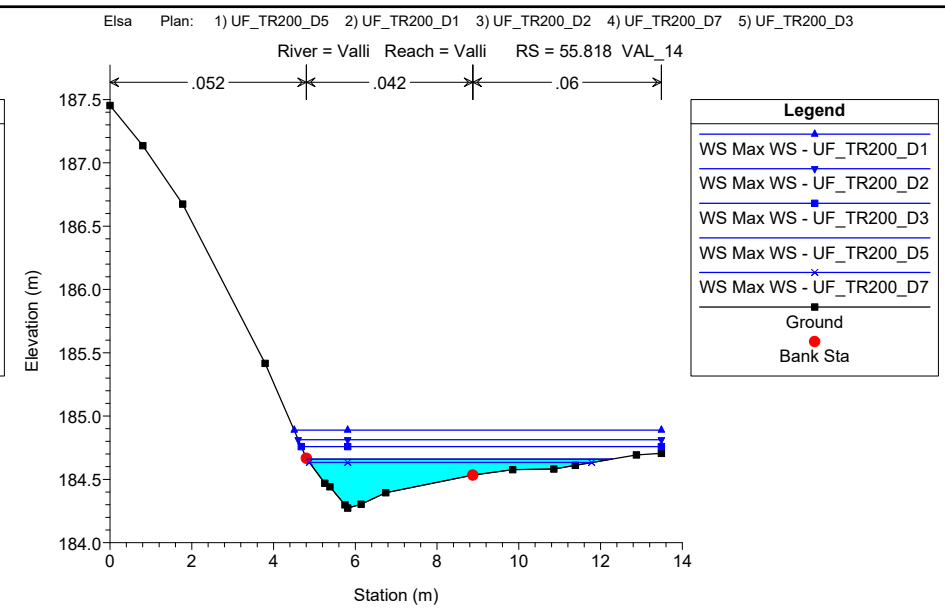
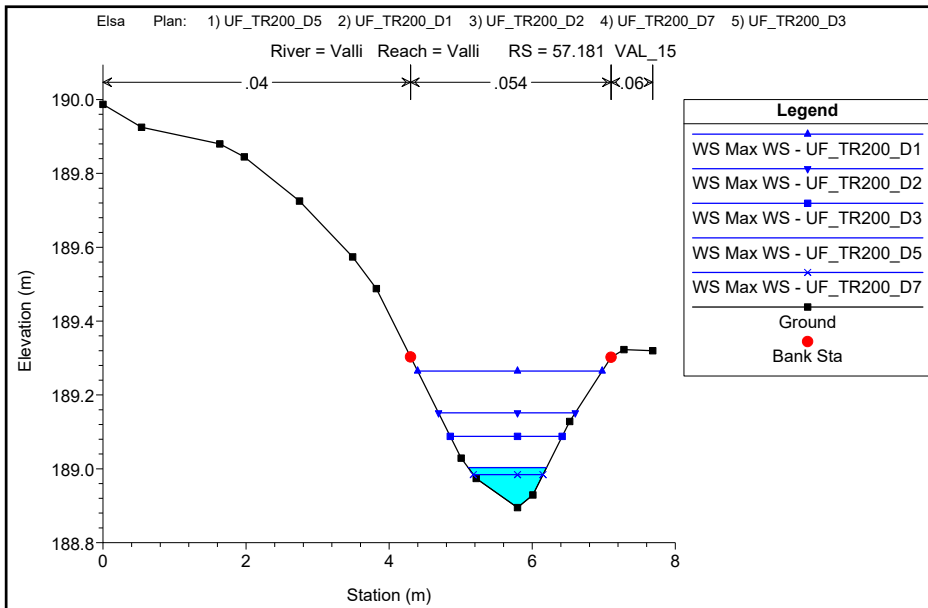
Sezioni Trasversali (da monte verso valle)

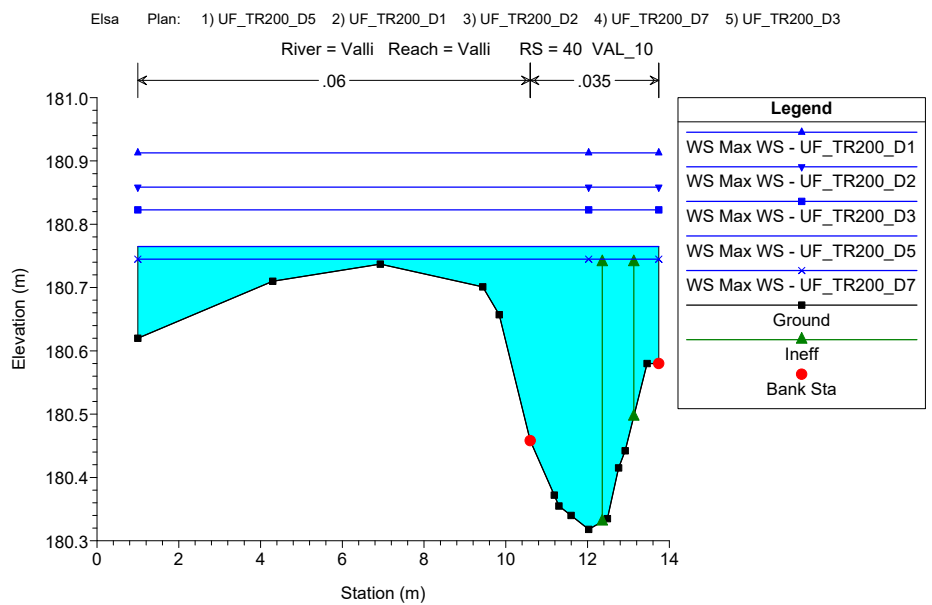
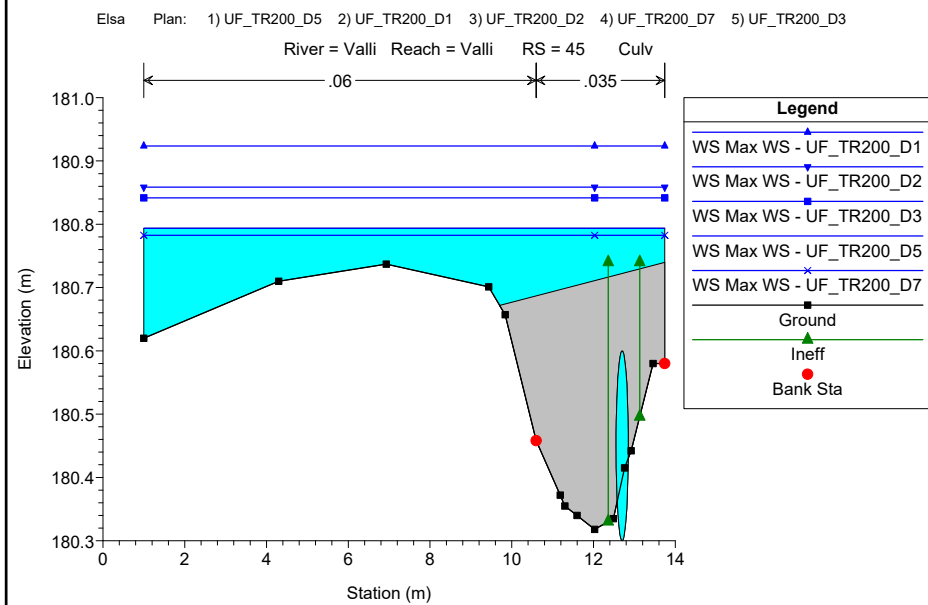
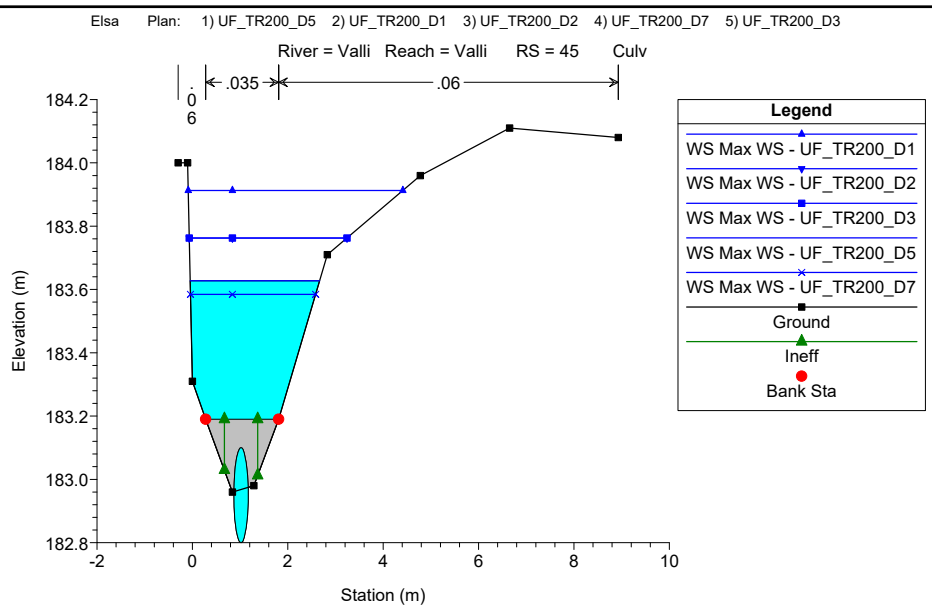
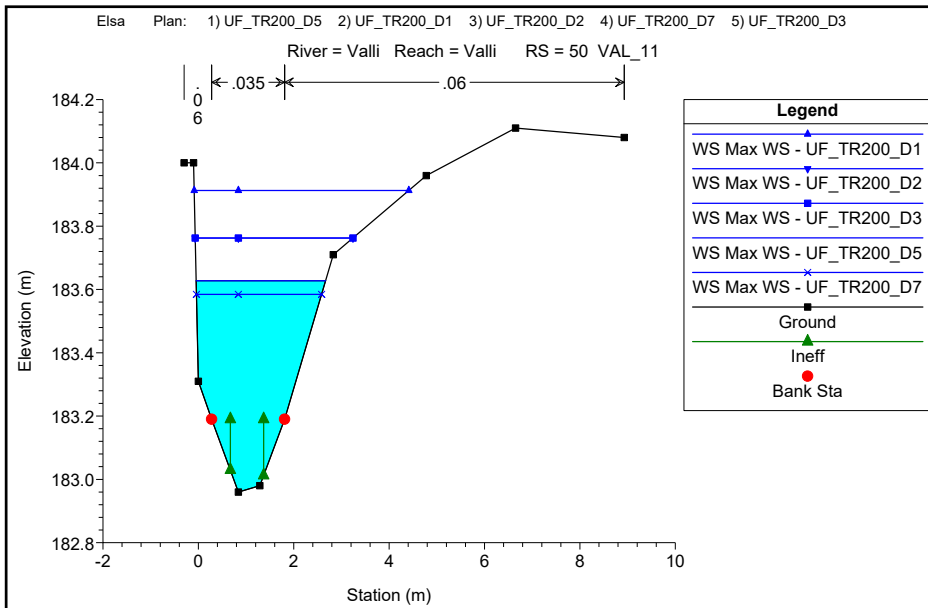


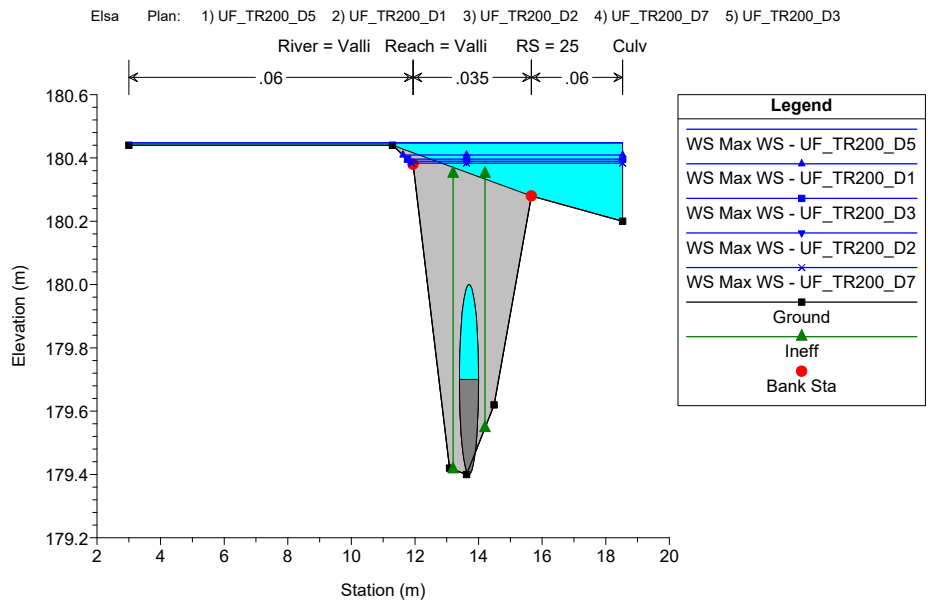
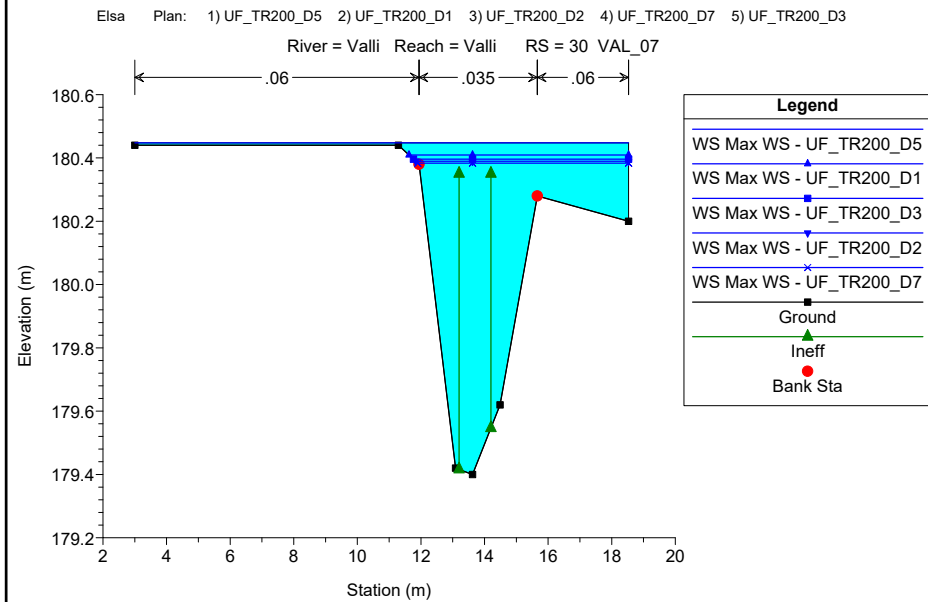
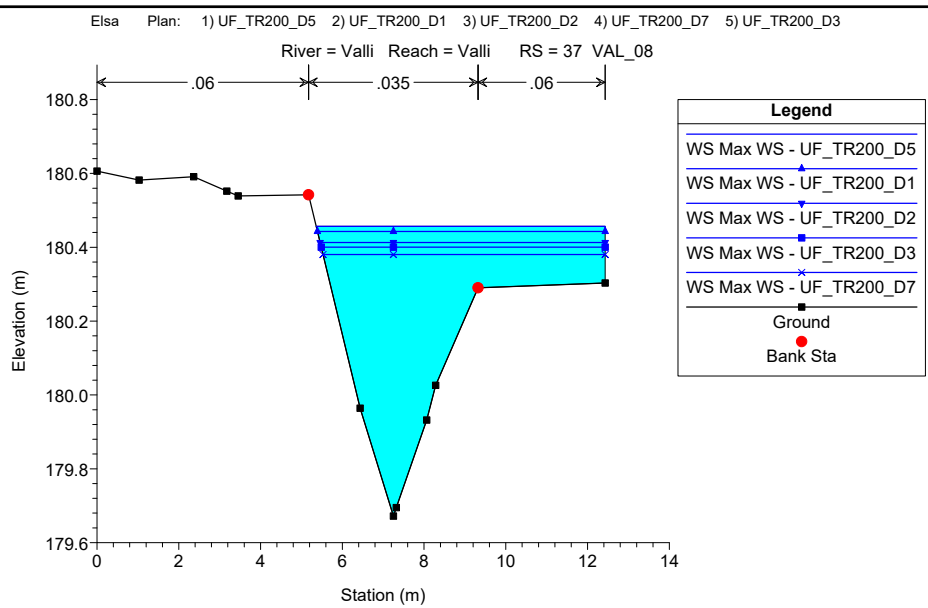
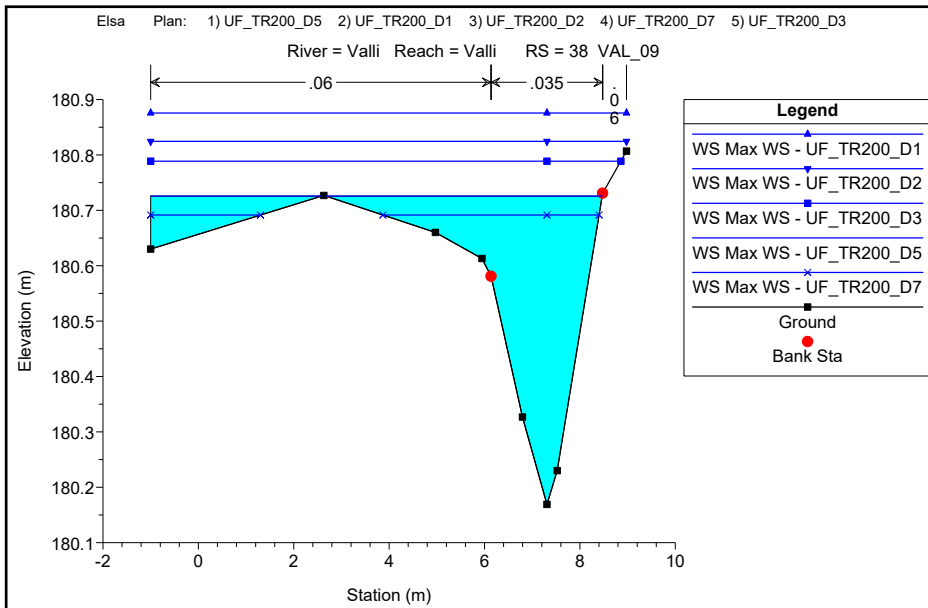


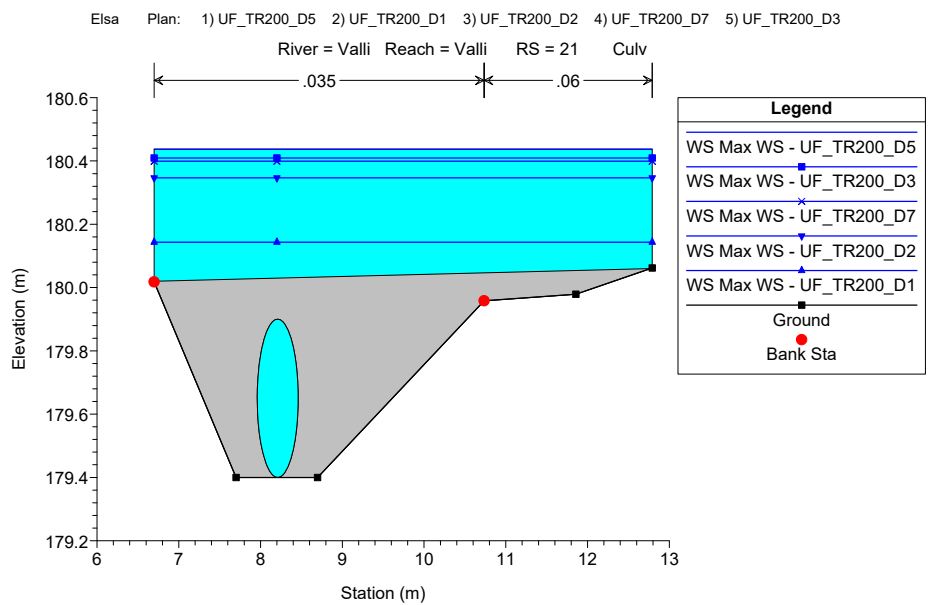
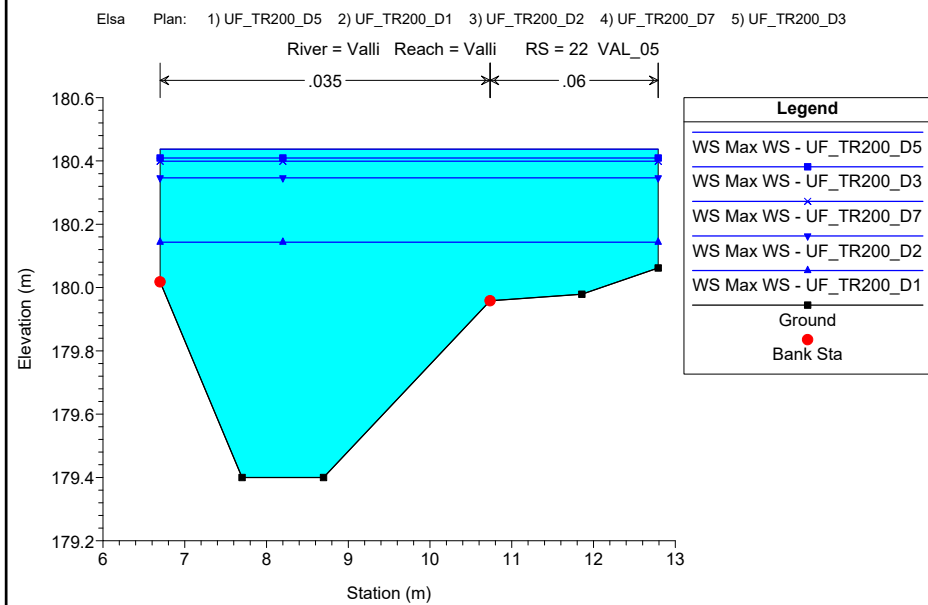
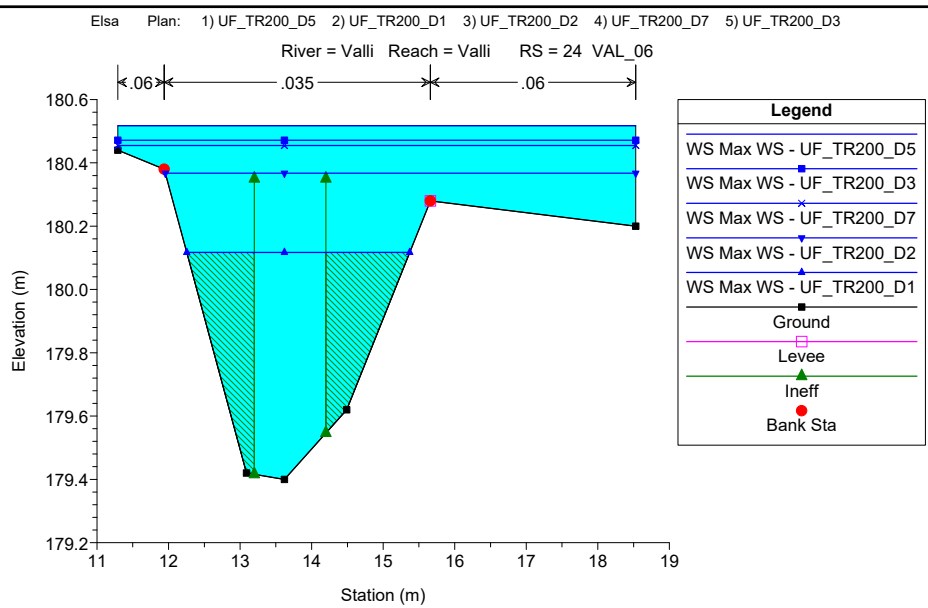
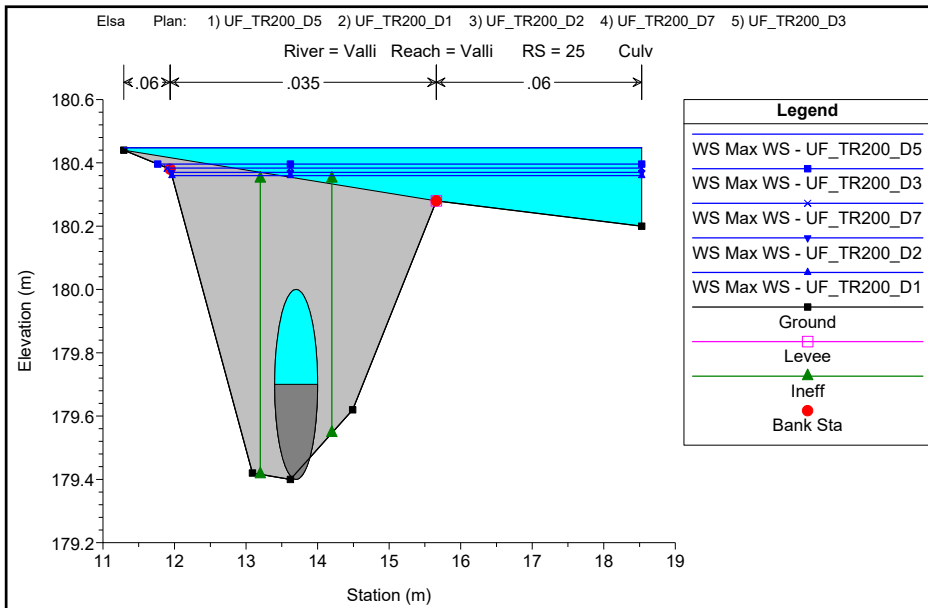


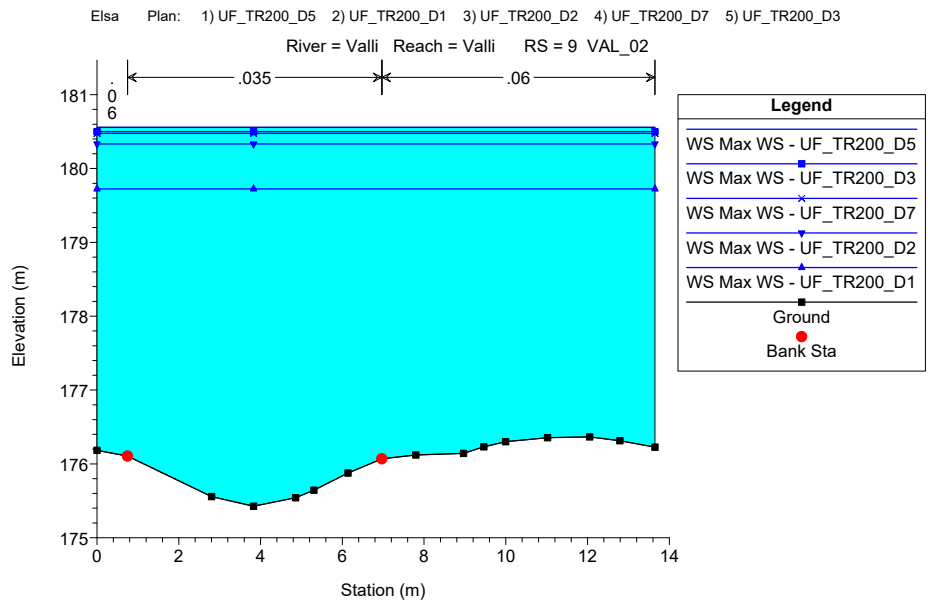
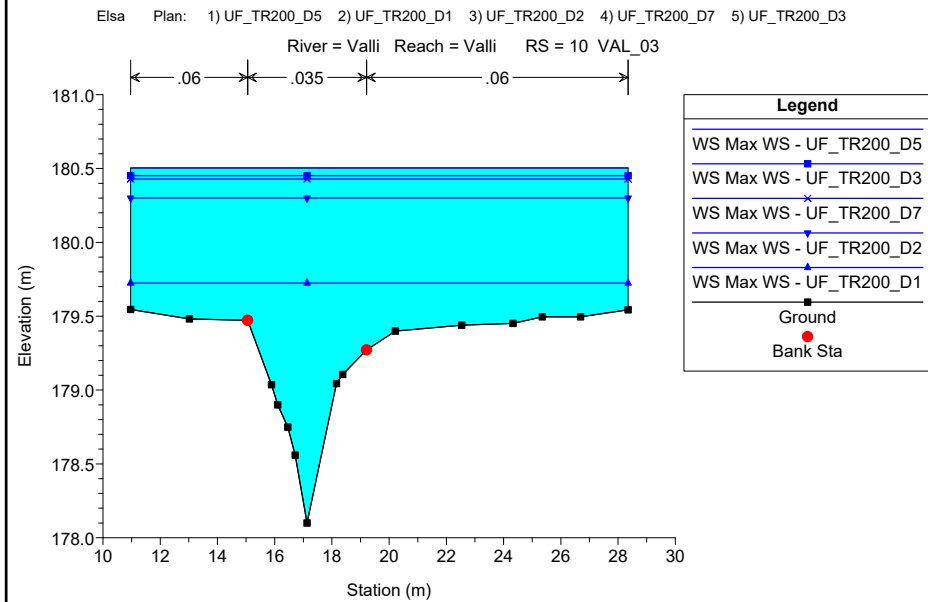
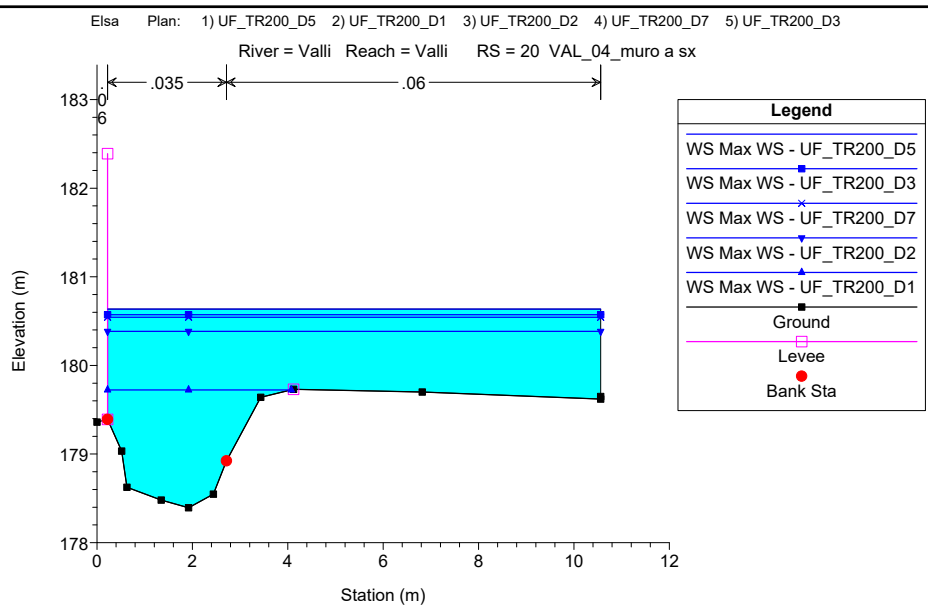
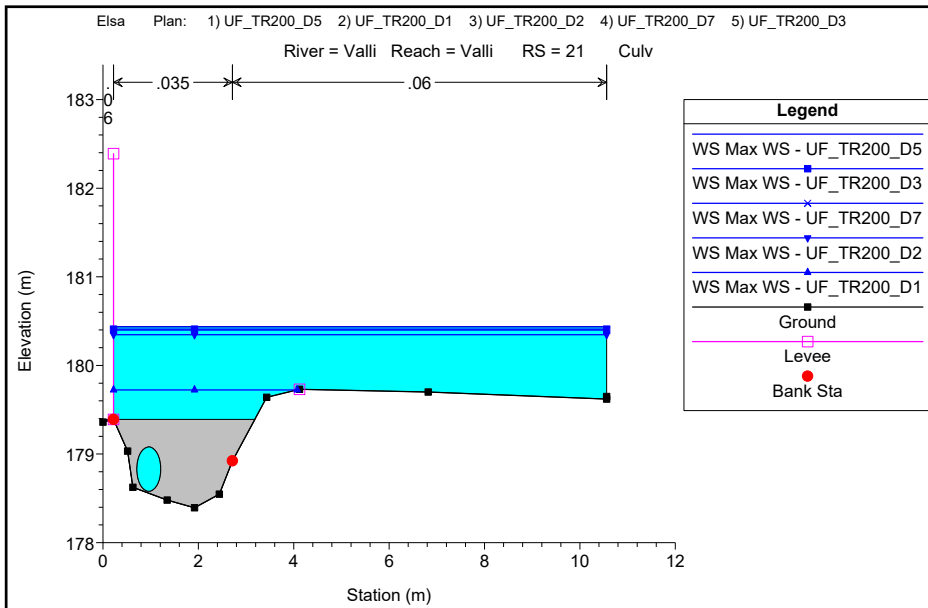






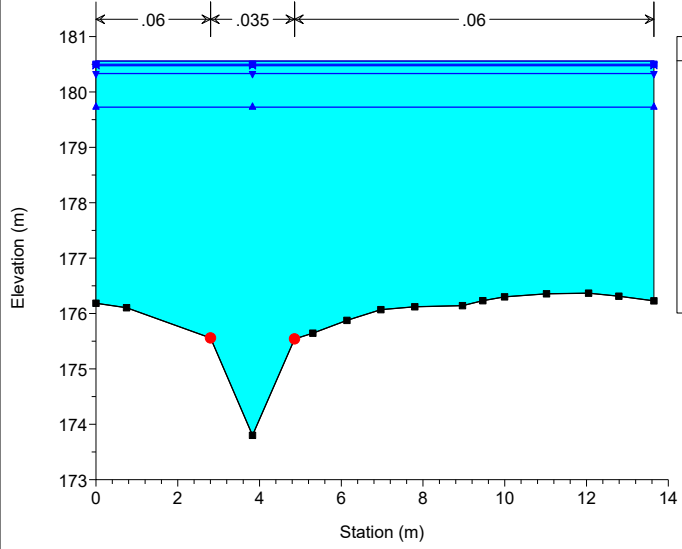






Elsa Plan: 1) UF_TR200_D5 2) UF_TR200_D1 3) UF_TR200_D2 4) UF_TR200_D7 5) UF_TR200_D3

River = Valli Reach = Valli RS = 8 VAL_01



Legend	
WS Max WS - UF_TR200_D5	Blue line with square marker
WS Max WS - UF_TR200_D3	Blue line with square marker
WS Max WS - UF_TR200_D7	Blue line with square marker
WS Max WS - UF_TR200_D2	Blue line with square marker
WS Max WS - UF_TR200_D1	Blue line with square marker
Ground	Black line with square marker
Bank Sta	Red dot

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO PODERE VALLI

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valli	50	Max WS	UF_TR30_D1	2.09	182.96	183.76		183.90	0.006018	0.45	1.71	0.46	1.58	3.31	0.65
Valli	50	Max WS	UF_TR30_D5	0.80	182.96	183.53		183.58	0.003558	0.29	1.01	0.28	0.93	2.51	0.46
Valli	50	Max WS	UF_TR30_D7	0.66	182.96	183.49		183.53	0.003340	0.26	0.92	0.25	0.83	2.42	0.44
Valli	50	Max WS	UF_TR30_D2	2.00	182.96	183.75		183.88	0.005840	0.44	1.66	0.46	1.54	3.21	0.63
Valli	50	Max WS	UF_TR30_D3	1.50	182.96	183.69		183.77	0.004589	0.38	1.38	0.41	1.35	2.84	0.55
Valli	45		Culvert												
Valli	40	Max WS	UF_TR30_D1	2.98	180.32	180.87		180.95	0.008801	0.49	1.49		3.16	12.74	0.70
Valli	40	Max WS	UF_TR30_D5	0.80	180.32	180.73	180.74	181.24	0.055607		3.16		0.25	12.28	1.76
Valli	40	Max WS	UF_TR30_D7	0.63	180.32	180.73	180.74	181.06	0.036127		2.53		0.25	11.77	1.41
Valli	40	Max WS	UF_TR30_D2	2.00	180.32	180.82		180.88	0.006845	0.35	1.23		2.53	12.74	0.61
Valli	40	Max WS	UF_TR30_D3	1.50	180.32	180.79		180.84	0.005509	0.26	1.05		2.15	12.74	0.55
Valli	39.91		Lat Struct												
Valli	39.81		Lat Struct												
Valli	38	Max WS	UF_TR30_D1	1.73	180.17	180.83		180.90	0.006538	0.39	1.26	0.21	2.19	9.98	0.61
Valli	38	Max WS	UF_TR30_D5	0.68	180.17	180.66		180.72	0.009244	0.13	1.11		0.65	4.21	0.67
Valli	38	Max WS	UF_TR30_D7	0.61	180.17	180.64		180.69	0.009101	0.11	1.06		0.58	3.09	0.66
Valli	38	Max WS	UF_TR30_D2	1.24	180.17	180.78		180.84	0.006143	0.29	1.12	0.11	1.67	9.82	0.58
Valli	38	Max WS	UF_TR30_D3	0.99	180.17	180.75		180.80	0.006078	0.23	1.05	0.06	1.35	9.60	0.57
Valli	37	Max WS	UF_TR30_D1	2.45	179.67	180.42		180.52	0.009360		1.46	0.39	1.96	6.98	0.73
Valli	37	Max WS	UF_TR30_D5	0.79	179.67	180.31		180.33	0.002663		0.67	0.05	1.22	6.75	0.38
Valli	37	Max WS	UF_TR30_D7	0.79	179.67	180.31		180.33	0.002663		0.67	0.05	1.22	6.75	0.38
Valli	37	Max WS	UF_TR30_D2	1.84	179.67	180.38		180.45	0.007574		1.25	0.27	1.68	6.90	0.65
Valli	37	Max WS	UF_TR30_D3	1.47	179.67	180.35		180.41	0.006038		1.08	0.19	1.52	6.85	0.57
Valli	31.7		Lat Struct												
Valli	30	Max WS	UF_TR30_D1	0.59	179.40	180.39		180.40	0.000150	0.01	0.24	0.06	2.81	6.73	0.09
Valli	30	Max WS	UF_TR30_D5	0.25	179.40	180.32		180.32	0.000128		0.29		0.87	6.51	0.10
Valli	30	Max WS	UF_TR30_D7	0.25	179.40	180.32		180.32	0.000128		0.29		0.87	6.51	0.10
Valli	30	Max WS	UF_TR30_D2	0.45	179.40	180.37		180.37	0.000105		0.19	0.04	2.63	6.57	0.08
Valli	30	Max WS	UF_TR30_D3	0.26	179.40	180.35		180.35	0.000038		0.12	0.02	2.55	6.56	0.05
Valli	25		Culvert												
Valli	24	Max WS	UF_TR30_D1	0.59	179.40	180.11		180.15	0.001701		0.88		0.66	3.09	0.35
Valli	24	Max WS	UF_TR30_D5	0.22	179.40	180.06		180.07	0.000311		0.36		0.61	2.94	0.15
Valli	24	Max WS	UF_TR30_D7	0.22	179.40	180.05		180.06	0.000324		0.36		0.61	2.93	0.15
Valli	24	Max WS	UF_TR30_D2	0.45	179.40	180.08		180.11	0.001153		0.71		0.64	3.02	0.28
Valli	24	Max WS	UF_TR30_D3	0.29	179.40	180.03		180.04	0.000652		0.50		0.58	2.86	0.21
Valli	22	Max WS	UF_TR30_D1	0.58	179.40	180.13		180.13	0.000244		0.27	0.07	2.36	6.09	0.12
Valli	22	Max WS	UF_TR30_D5	0.22	179.40	180.06		180.06	0.000056		0.12	0.02	1.94	6.09	0.06
Valli	22	Max WS	UF_TR30_D7	0.22	179.40	180.06		180.06	0.000060		0.12	0.02	1.92	6.05	0.06
Valli	22	Max WS	UF_TR30_D2	0.45	179.40	180.10		180.10	0.000187		0.23	0.05	2.16	6.09	0.09
Valli	22	Max WS	UF_TR30_D3	0.30	179.40	180.04		180.04	0.000133		0.18	0.03	1.79	5.81	0.10
Valli	21		Culvert												
Valli	20	Max WS	UF_TR30_D1	0.53	178.39	179.00		179.02	0.001244		0.52	0.05	1.02	2.27	0.25
Valli	20	Max WS	UF_TR30_D5	0.22	178.39	179.76		179.76	0.000009		0.07	0.01	3.72	10.34	0.02
Valli	20	Max WS	UF_TR30_D7	0.22	178.39	179.72		179.72	0.000010		0.08	0.02	3.09	3.84	0.02
Valli	20	Max WS	UF_TR30_D2	0.24	178.39	179.36		179.36	0.000042		0.13	0.03	1.94	2.91	0.05
Valli	20	Max WS	UF_TR30_D3	0.24	178.39	179.61		179.61	0.000017		0.09	0.03	2.72	3.19	0.03
Valli	19		Lat Struct												
Valli	18		Lat Struct												
Valli	10	Max WS	UF_TR30_D1	0.61	178.10	178.73		178.85	0.022039		1.53		0.40	1.32	0.89
Valli	10	Max WS	UF_TR30_D5	-0.22	178.10	179.76		179.76	0.000004	-0.01	-0.05	-0.01	7.54	17.38	0.02
Valli	10	Max WS	UF_TR30_D7	0.01	178.10	179.72		179.72	0.000000	0.00	0.00	0.00	6.91	17.38	0.00
Valli	10	Max WS	UF_TR30_D2	0.34	178.10	179.36		179.36	0.000113		0.17	0.02	2.02	4.61	0.08
Valli	10	Max WS	UF_TR30_D3	0.34	178.10	179.61		179.61	0.000023	0.02	0.10	0.02	5.01	17.38	0.04
Valli	9	Max WS	UF_TR30_D1	0.34	175.43	178.70		178.70	0.000000	0.00	0.01	0.01	36.95	13.65	0.00
Valli	9	Max WS	UF_TR30_D5	-0.22	175.43	179.76		179.76	0.000000	0.00	-0.01	0.00	51.33	13.65	0.00
Valli	9	Max WS	UF_TR30_D7	0.01	175.43	179.72		179.72	0.000000	0.00	0.00	0.00	50.84	13.65	0.00
Valli	9	Max WS	UF_TR30_D2	0.34	175.43	179.36		179.36	0.000000	0.00	0.01	0.00	45.85	13.65	0.00
Valli	9	Max WS	UF_TR30_D3	0.34	175.43	179.61		179.61	0.000000	0.00	0.01	0.00	49.35	13.65	0.00
Valli	8	Max WS	UF_TR30_D1	0.34	173.80	178.70		178.70	0.000000	0.01	0.01	0.01	38.82	13.65	0.00
Valli	8	Max WS	UF_TR30_D5	-0.22	173.80	179.76		179.76	0.000000	0.00	-0.01	0.00	53.00	13.65	0.00
Valli	8	Max WS	UF_TR30_D7	0.01	173.80	179.72		179.72	0.000000	0.00	0.00	0.00	52.51	13.65	0.00
Valli	8	Max WS	UF_TR30_D2	0.34	173.80	179.36		179.36	0.000000	0.00	0.01	0.01	47.53	13.65	0.00
Valli	8	Max WS	UF_TR30_D3	0.34	173.80	179.61		179.61	0.000000	0.00	0.01	0.01	51.02	13.65	0.00

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "Elsa_d"

FOSSO PODERE VALLI

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h, 5h, 7h

Dati idraulici

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

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Left (m/s)	Vel Chnl (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Valli	50	Max WS	UF_TR200_D5	1.20	182.96	183.63		183.70	0.004150	0.34	1.23	0.36	1.19	2.71	0.52
Valli	50	Max WS	UF_TR200_D1	4.04	182.96	183.91		184.22	0.011043	0.66	2.63	0.66	2.17	4.50	0.90
Valli	50	Max WS	UF_TR200_D2	2.09	182.96	183.76		183.90	0.006016	0.45	1.71	0.46	1.58	3.31	0.65
Valli	50	Max WS	UF_TR200_D7	1.00	182.96	183.58		183.64	0.003789	0.32	1.12	0.32	1.07	2.62	0.49
Valli	50	Max WS	UF_TR200_D3	2.09	182.96	183.76		183.90	0.006014	0.45	1.71	0.46	1.58	3.31	0.64
Valli	45		Culvert												
Valli	40	Max WS	UF_TR200_D5	1.20	180.32	180.76		180.80	0.004745	0.21	0.94		1.86	12.74	0.50
Valli	40	Max WS	UF_TR200_D1	4.04	180.32	180.91		181.02	0.010421	0.62	1.71		3.74	12.74	0.77
Valli	40	Max WS	UF_TR200_D2	2.80	180.32	180.86		180.94	0.008497	0.47	1.45		3.05	12.74	0.69
Valli	40	Max WS	UF_TR200_D7	1.00	180.32	180.74		180.78	0.004310	0.16	0.87		1.60	12.74	0.48
Valli	40	Max WS	UF_TR200_D3	2.10	180.32	180.82		180.89	0.007084	0.36	1.26		2.60	12.74	0.63
Valli	39.91		Lat Struct												
Valli	39.81		Lat Struct												
Valli	38	Max WS	UF_TR200_D5	0.83	180.17	180.73		180.77	0.005918	0.17	0.99		1.13	9.38	0.55
Valli	38	Max WS	UF_TR200_D1	2.24	180.17	180.88		180.95	0.007015	0.47	1.39	0.29	2.60	9.98	0.64
Valli	38	Max WS	UF_TR200_D2	1.66	180.17	180.82		180.89	0.006659	0.38	1.25	0.19	2.09	9.98	0.61
Valli	38	Max WS	UF_TR200_D7	0.78	180.17	180.69	180.60	180.75	0.007961	0.16	1.10		0.85	6.84	0.63
Valli	38	Max WS	UF_TR200_D3	1.29	180.17	180.79		180.84	0.006170	0.30	1.14	0.12	1.74	9.86	0.58
Valli	37	Max WS	UF_TR200_D5	0.55	179.67	180.46		180.46	0.000336		0.29	0.09	2.23	7.07	0.14
Valli	37	Max WS	UF_TR200_D1	2.85	179.67	180.44		180.56	0.010240		1.57	0.45	2.13	7.04	0.77
Valli	37	Max WS	UF_TR200_D2	2.38	179.67	180.41		180.51	0.009174		1.44	0.37	1.92	6.97	0.72
Valli	37	Max WS	UF_TR200_D7	0.57	179.67	180.38		180.39	0.000715		0.38	0.08	1.70	6.90	0.20
Valli	37	Max WS	UF_TR200_D3	0.54	179.67	180.40		180.41	0.000536		0.34	0.08	1.84	6.95	0.17
Valli	31.7		Lat Struct												
Valli	30	Max WS	UF_TR200_D5	-1.27	179.40	180.45		180.46	0.000516	-0.02	-0.46	-0.13	3.26	15.53	0.18
Valli	30	Max WS	UF_TR200_D1	0.65	179.40	180.41		180.41	0.000169	0.01	0.26	0.06	2.93	6.91	0.10
Valli	30	Max WS	UF_TR200_D2	0.57	179.40	180.39		180.39	0.000144	0.01	0.23	0.05	2.79	6.70	0.09
Valli	30	Max WS	UF_TR200_D7	-0.69	179.40	180.38		180.39	0.000219	0.00	-0.28	-0.06	2.75	6.63	0.11
Valli	30	Max WS	UF_TR200_D3	-0.82	179.40	180.40		180.40	0.000286	-0.01	-0.33	-0.08	2.84	6.77	0.13
Valli	25		Culvert												
Valli	24	Max WS	UF_TR200_D5	-1.27	179.40	180.52		180.53	0.000357	-0.07	-0.41	-0.12	3.71	7.24	0.15
Valli	24	Max WS	UF_TR200_D1	0.65	179.40	180.12		180.17	0.002021		0.97		0.67	3.12	0.38
Valli	24	Max WS	UF_TR200_D2	-0.17	179.40	180.37		180.37	0.000014		-0.07	-0.02	2.65	6.58	0.03
Valli	24	Max WS	UF_TR200_D7	-0.73	179.40	180.46		180.46	0.000163	-0.03	-0.26	-0.07	3.25	7.24	0.10
Valli	24	Max WS	UF_TR200_D3	-0.82	179.40	180.47		180.48	0.000187	-0.03	-0.29	-0.08	3.37	7.24	0.11
Valli	22	Max WS	UF_TR200_D5	-3.99	179.40	180.44		180.49	0.002330		-1.09	-0.42	4.22	6.09	0.38
Valli	22	Max WS	UF_TR200_D1	0.65	179.40	180.14		180.15	0.000284		0.30	0.08	2.43	6.09	0.13
Valli	22	Max WS	UF_TR200_D2	-1.59	179.40	180.35		180.36	0.000548		-0.50	-0.18	3.67	6.09	0.19
Valli	22	Max WS	UF_TR200_D7	-2.97	179.40	180.40		180.43	0.001510		-0.86	-0.32	3.99	6.09	0.31
Valli	22	Max WS	UF_TR200_D3	-3.22	179.40	180.41		180.45	0.001705		-0.92	-0.35	4.05	6.09	0.33
Valli	21		Culvert												
Valli	20	Max WS	UF_TR200_D5	-3.99	178.39	180.64		180.64	0.000216		-0.46	-0.22	12.79	10.34	0.10
Valli	20	Max WS	UF_TR200_D1	0.22	178.39	179.72		179.72	0.000010		0.08	0.02	3.10	3.85	0.02
Valli	20	Max WS	UF_TR200_D2	-1.59	178.39	180.38		180.39	0.000062		-0.23	-0.10	10.18	10.34	0.06
Valli	20	Max WS	UF_TR200_D7	-2.99	178.39	180.54		180.55	0.000149		-0.37	-0.17	11.84	10.34	0.09
Valli	20	Max WS	UF_TR200_D3	-3.22	178.39	180.57		180.58	0.000162		-0.39	-0.18	12.13	10.34	0.09
Valli	19		Lat Struct												
Valli	18		Lat Struct												
Valli	10	Max WS	UF_TR200_D5	-17.08	178.10	180.50		180.56	0.001439	-0.55	-1.32	-0.61	20.48	17.38	0.33
Valli	10	Max WS	UF_TR200_D1	-0.02	178.10	179.72		179.72	0.000000	0.00	-0.01	0.00	6.94	17.38	0.00
Valli	10	Max WS	UF_TR200_D2	-11.05	178.10	180.30		180.33	0.001053	-0.42	-1.04	-0.46	16.95	17.38	0.28
Valli	10	Max WS	UF_TR200_D7	-14.78	178.10	180.43		180.48	0.001307	-0.50	-1.22	-0.56	19.19	17.38	0.31
Valli	10	Max WS	UF_TR200_D3	-15.43	178.10	180.45		180.50	0.001341	-0.52	-1.25	-0.57	19.59	17.38	0.32
Valli	9	Max WS	UF_TR200_D5	-17.09	175.43	180.56		180.56	0.000026	-0.06	-0.41	-0.16	62.23	13.65	0.06
Valli	9	Max WS	UF_TR200_D1	-0.03	175.43	179.72		179.72	0.000000	0.00	0.00	0.00	50.86	13.65	0.00
Valli	9	Max WS	UF_TR200_D2	-11.05	175.43	180.33		180.33	0.000013	-0.04	-0.28	-0.11	59.16	13.65	0.04
Valli	9	Max WS	UF_TR200_D7	-14.78	175.43	180.47		180.48	0.000020	-0.06	-0.36	-0.14	61.10	13.65	0.05
Valli	9	Max WS	UF_TR200_D3	-15.43	175.43	180.50		180.50	0.000022	-0.06	-0.37	-0.15	61.44	13.65	0.05
Valli	8	Max WS	UF_TR200_D5	-17.09	173.80	180.56		180.56	0.000052	-0.18	-0.43	-0.25	63.90	13.65	0.06
Valli	8	Max WS	UF_TR200_D1	-0.50	173.80	179.73		179.73	0.000000	-0.01	-0.01	-0.01	52.56	13.65	0.00
Valli	8	Max WS	UF_TR200_D2	-11.05	173.80	180.33		180.33	0.000025	-0.12	-0.29	-0.17	60.82	13.65	0.04
Valli	8	Max WS	UF_TR200_D7	-14.78	173.80	180.47		180.48	0.000041	-0.16	-0.38	-0.22	62.77	13.65	0.05
Valli	8	Max WS	UF_TR200_D3	-15.44	173.80	180.50		180.50	0.000044	-0.16	-0.39	-0.23	63.12	13.65	0.05

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

BOTRO DEL CONVENTO

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

BOTRO DEL CONVENTO

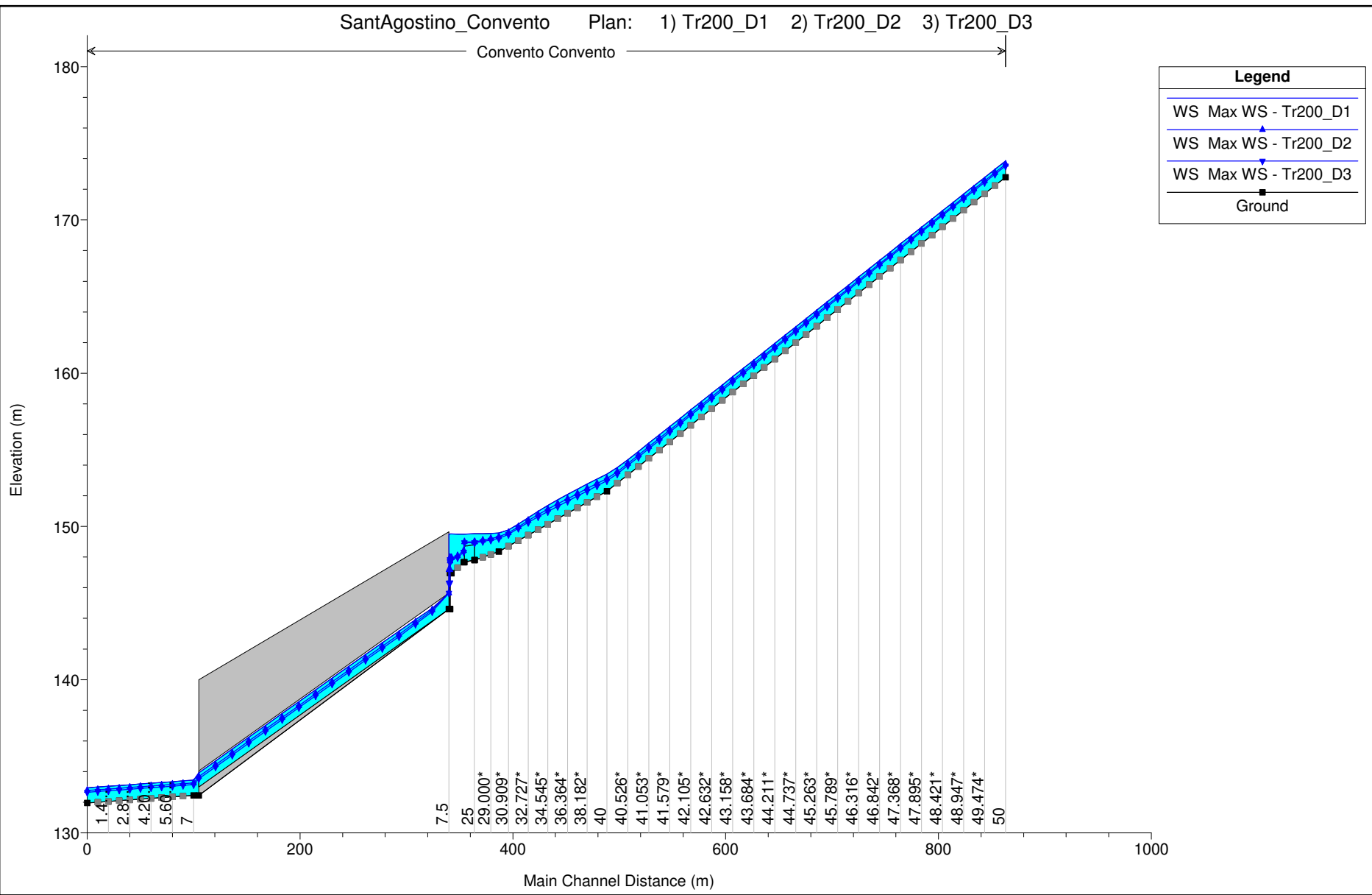
MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale

SantAgostino_Convento Plan: 1) Tr200_D1 2) Tr200_D2 3) Tr200_D3

Convento Convento



ALLEGATI

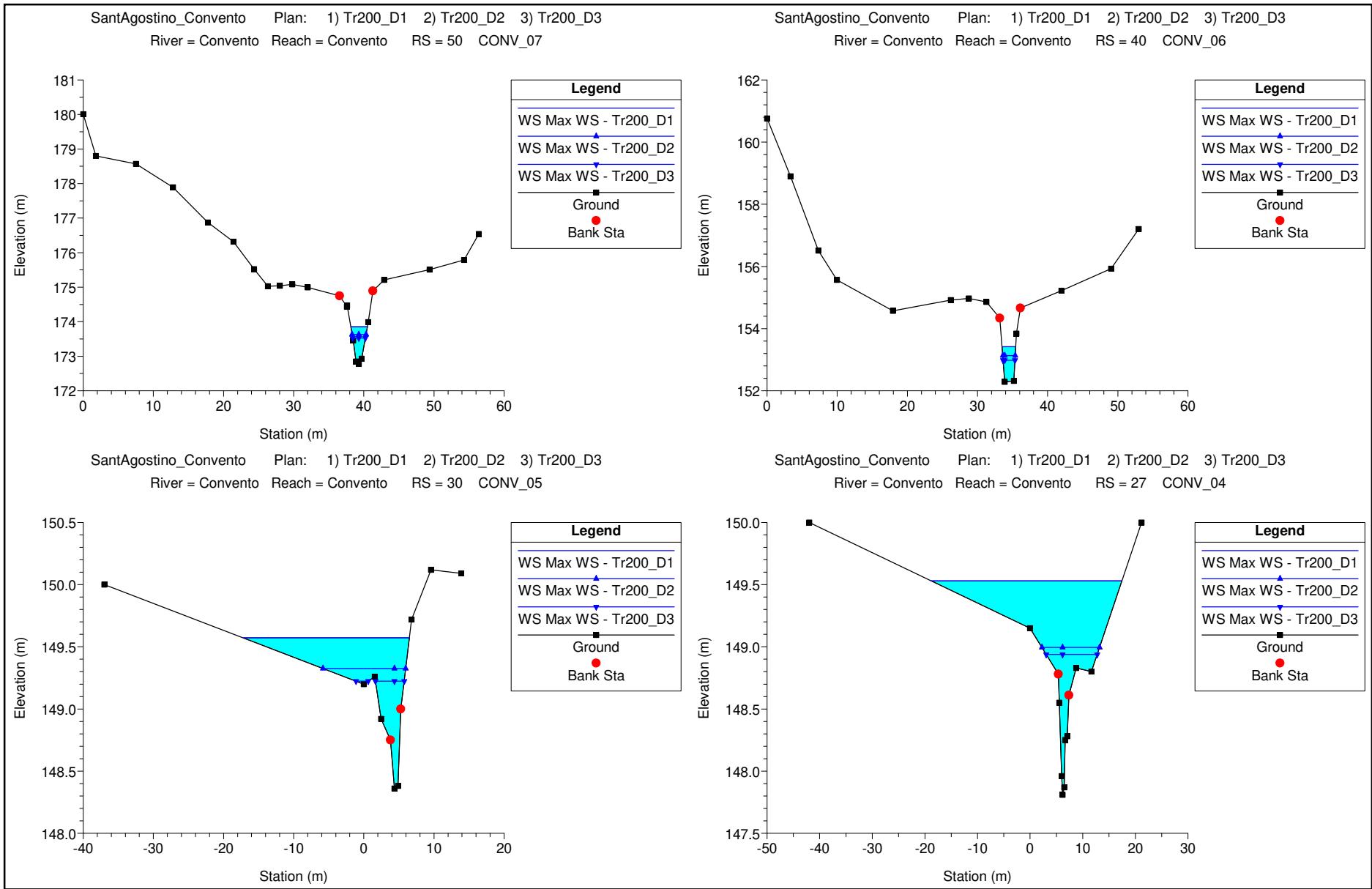
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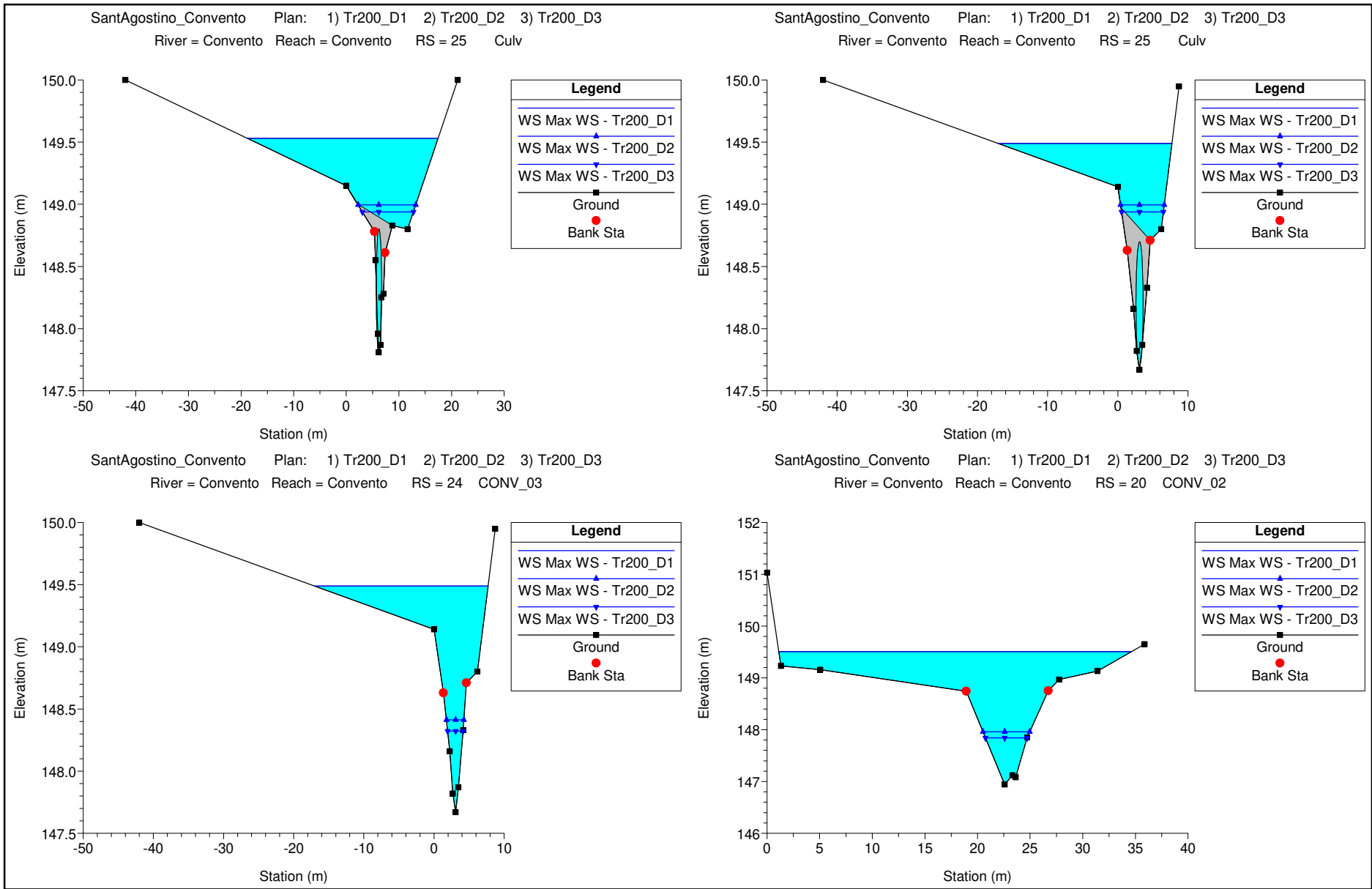
BOTRO DEL CONVENTO

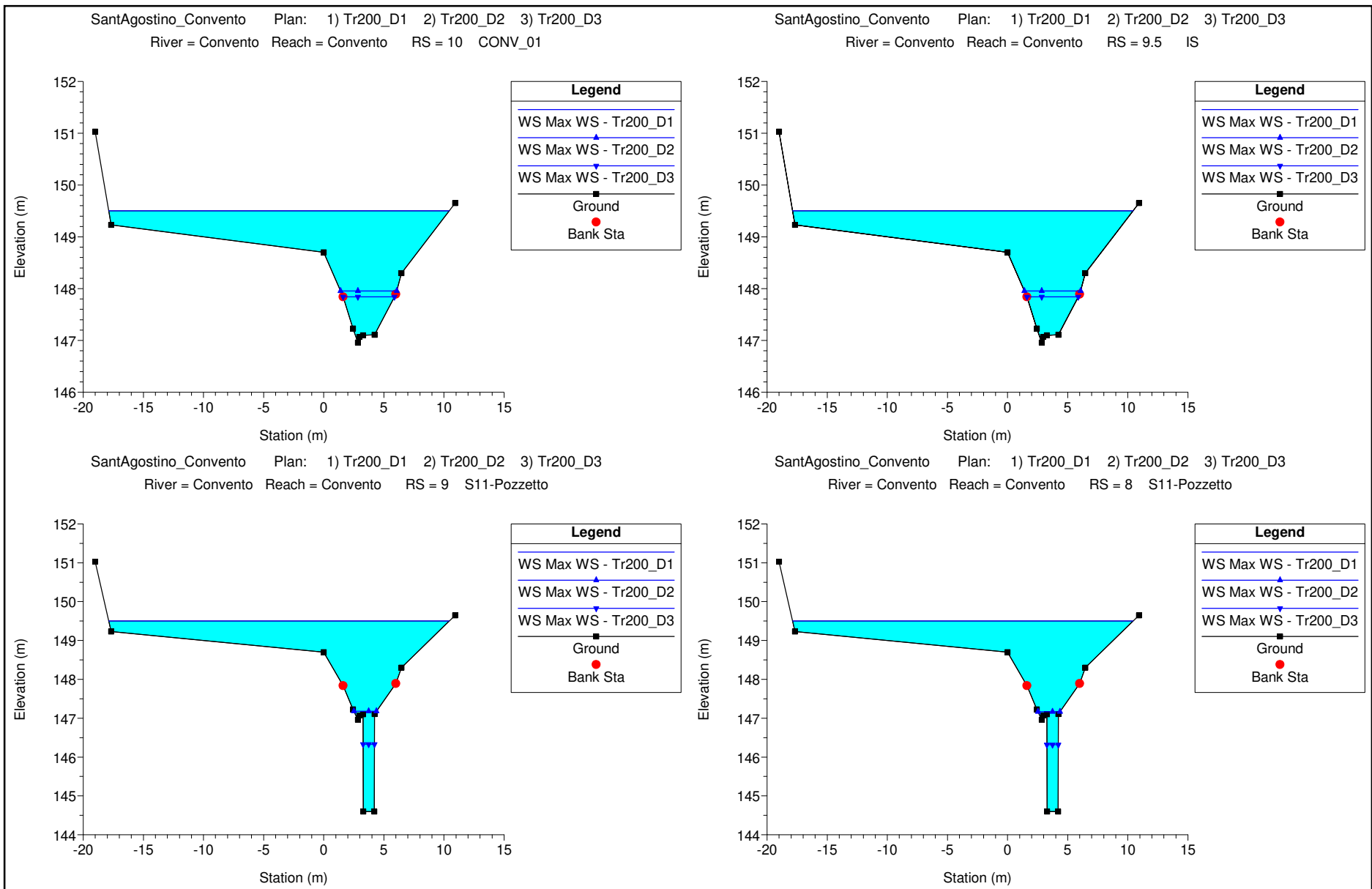
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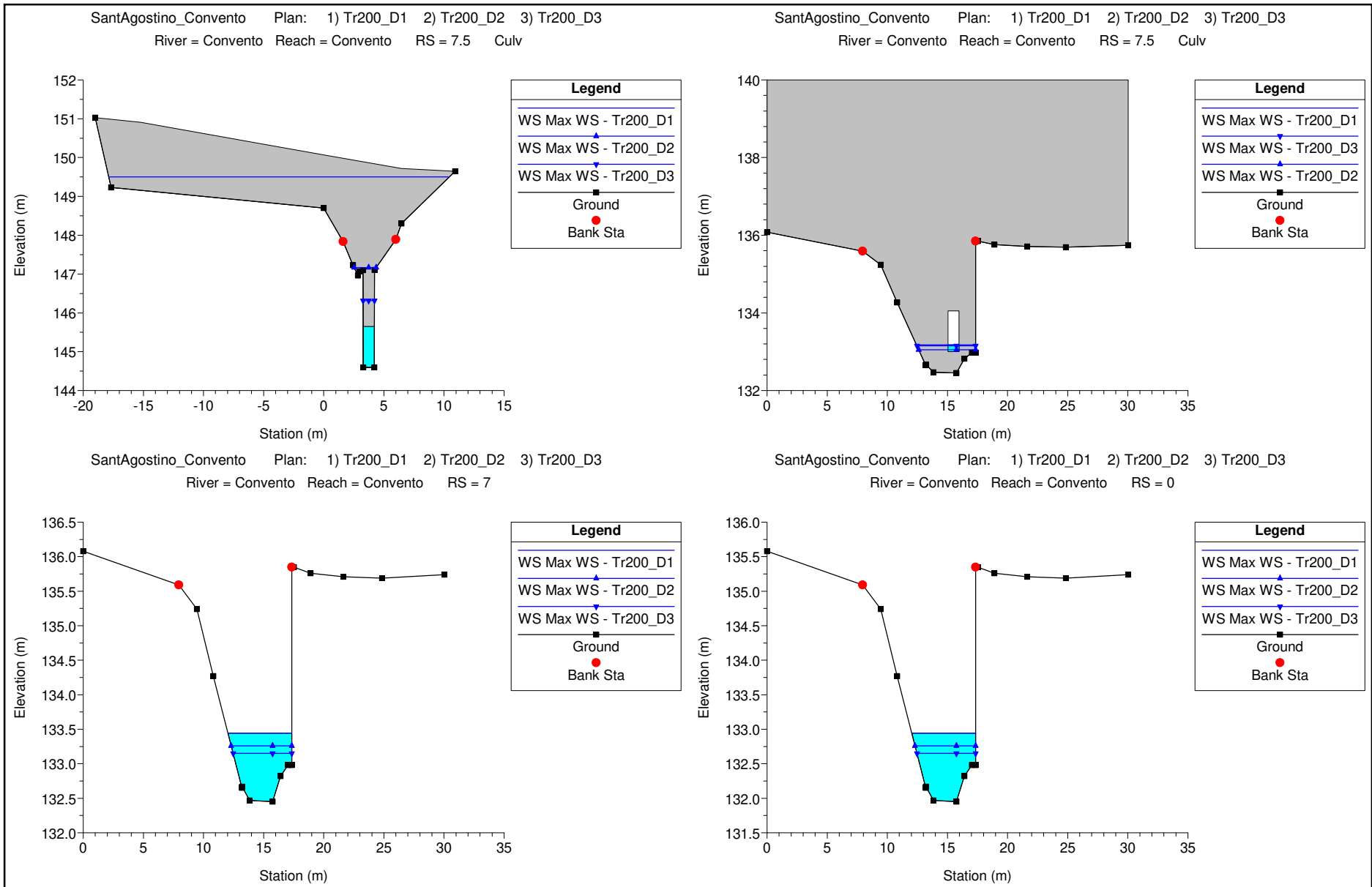
DURATE DI PIOGGIA: 1h, 2h, 3h

Sezioni Trasversali (da monte verso valle)









ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

BOTRO DEL CONVENTO

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Convento	50	Max WS	Tr200_D1	6.20	172.79	173.85	174.11	174.68	0.055097	4.02			1.54	2.38	1.60
Convento	50	Max WS	Tr200_D2	3.90	172.79	173.63	173.85	174.32	0.058493	3.68			1.06	1.99	1.61
Convento	50	Max WS	Tr200_D3	2.90	172.79	173.53	173.70	174.10	0.055214	3.35			0.87	1.81	1.55
Convento	40	Max WS	Tr200_D1	6.19	152.29	153.42	153.50	154.01	0.035595	3.40			1.82	1.95	1.12
Convento	40	Max WS	Tr200_D2	3.90	152.29	153.13	153.20	153.61	0.036505	3.07			1.27	1.78	1.16
Convento	40	Max WS	Tr200_D3	2.90	152.29	152.98	153.05	153.39	0.036671	2.84			1.02	1.70	1.17
Convento	30	Max WS	Tr200_D1	5.87	148.36	149.57		149.68	0.006406	1.96	0.52	0.54	7.03	23.68	0.61
Convento	30	Max WS	Tr200_D2	3.90	148.36	149.33	149.25	149.60	0.016021	2.59	0.58	0.59	2.67	11.81	0.93
Convento	30	Max WS	Tr200_D3	2.90	148.36	149.22	149.23	149.44	0.014602	2.26	0.86	0.44	1.74	5.86	0.87
Convento	27	Max WS	Tr200_D1	5.82	147.81	149.53		149.55	0.001087	0.90	0.23	0.36	14.58	36.24	0.25
Convento	27	Max WS	Tr200_D2	3.90	147.81	149.00		149.16	0.010774	2.00	0.39	0.55	2.98	10.97	0.72
Convento	27	Max WS	Tr200_D3	2.90	147.81	148.94		149.07	0.008811	1.72	0.29	0.41	2.39	9.69	0.64
Convento	25														
Convento	24	Max WS	Tr200_D1	5.81	147.67	149.49		149.53	0.001071	1.02	0.19	0.35	9.88	24.77	0.28
Convento	24	Max WS	Tr200_D2	3.90	147.67	148.41	148.66	149.21	0.080973	3.95			0.99	2.49	2.00
Convento	24	Max WS	Tr200_D3	2.90	147.67	148.32	148.55	149.03	0.084976	3.74			0.78	2.21	2.01
Convento	20	Max WS	Tr200_D1	5.81	146.94	149.50		149.51	0.000087	0.35	0.10	0.08	25.11	33.50	0.09
Convento	20	Max WS	Tr200_D2	3.90	146.94	147.96		148.08	0.006952	1.53			2.55	4.46	0.64
Convento	20	Max WS	Tr200_D3	2.90	146.94	147.84		147.94	0.006704	1.40			2.06	3.97	0.62
Convento	10	Max WS	Tr200_D1	5.81	146.96	149.50	147.90	149.51	0.000096	0.44	0.11	0.12	24.06	28.32	0.09
Convento	10	Max WS	Tr200_D2	3.90	146.96	147.96	147.75	148.06	0.005648	1.45	0.17	0.11	2.71	4.67	0.59
Convento	10	Max WS	Tr200_D3	2.90	146.96	147.84	147.65	147.93	0.006042	1.33			2.19	4.27	0.59
Convento	9.5														
Convento	9	Max WS	Tr200_D1	5.81	144.60	149.50		149.51	0.000111	0.34	0.12	0.13	26.36	28.31	0.07
Convento	9	Max WS	Tr200_D2	3.90	144.60	147.18		147.30	0.011439	1.55			2.52	1.87	0.43
Convento	9	Max WS	Tr200_D3	2.90	144.60	146.33		146.49	0.014781	1.79			1.62	0.94	0.44
Convento	8	Max WS	Tr200_D1	5.81	144.60	149.50		149.51	0.000111	0.34	0.12	0.13	26.36	28.31	0.07
Convento	8	Max WS	Tr200_D2	3.90	144.60	147.17		147.29	0.011663	1.56			2.50	1.83	0.43
Convento	8	Max WS	Tr200_D3	2.90	144.60	146.32		146.48	0.015104	1.80			1.61	0.94	0.44
Convento	7.5														
Convento	7	Max WS	Tr200_D1	5.81	132.45	133.44		133.55	0.005013	1.49			3.90	5.31	0.55
Convento	7	Max WS	Tr200_D2	3.90	132.45	133.26		133.35	0.005031	1.32			2.97	5.04	0.55
Convento	7	Max WS	Tr200_D3	2.90	132.45	133.15		133.22	0.005083	1.20			2.42	4.88	0.54
Convento	0	Max WS	Tr200_D1	5.81	131.95	132.94	132.68	133.05	0.005009	1.49			3.90	5.31	0.55
Convento	0	Max WS	Tr200_D2	3.90	131.95	132.76	132.55	132.85	0.005037	1.32			2.96	5.04	0.55
Convento	0	Max WS	Tr200_D3	2.90	131.95	132.65	132.46	132.72	0.005090	1.20			2.42	4.88	0.54

ALLEGATI

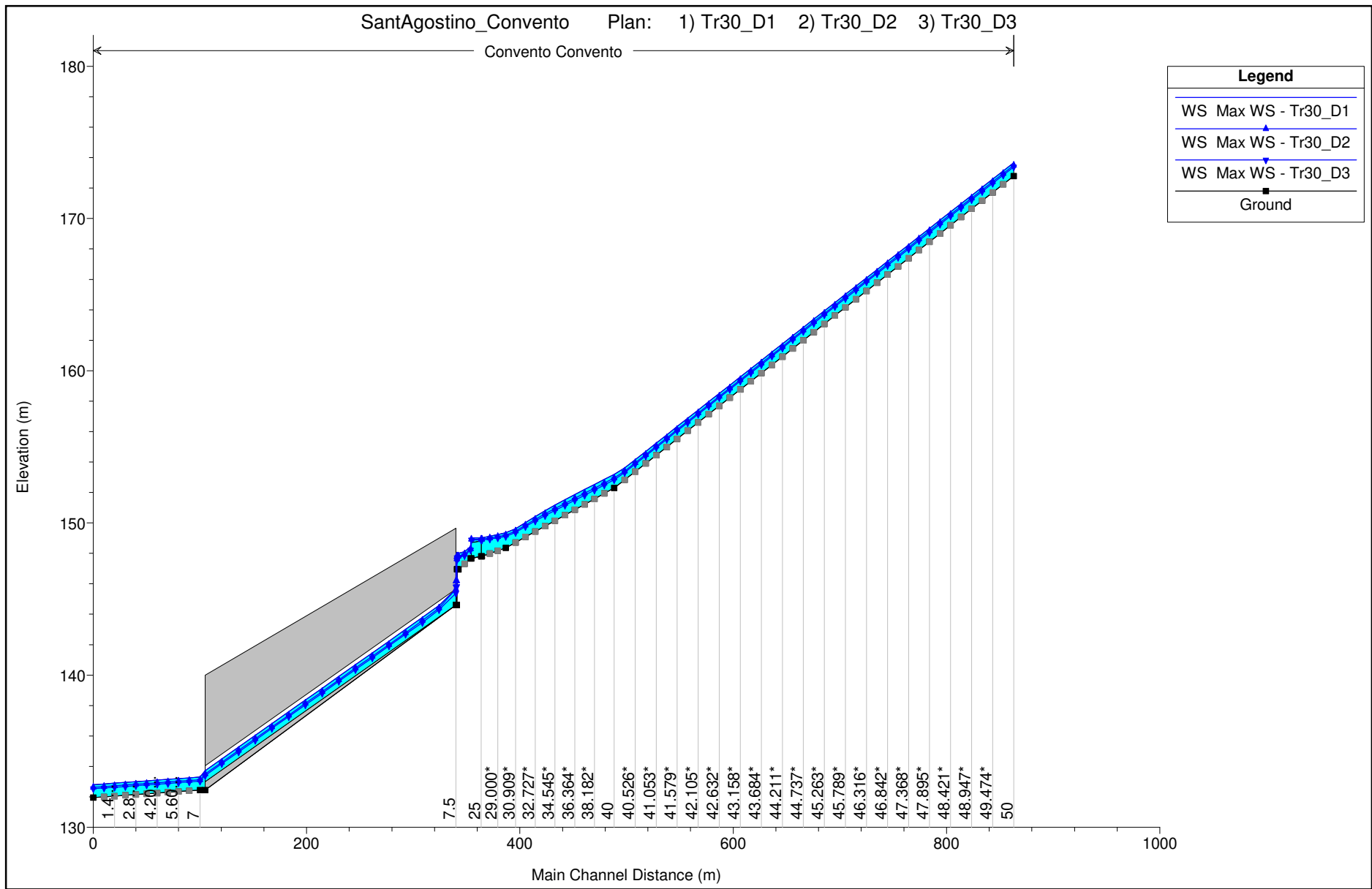
MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

BOTRO DEL CONVENTO

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale



ALLEGATI

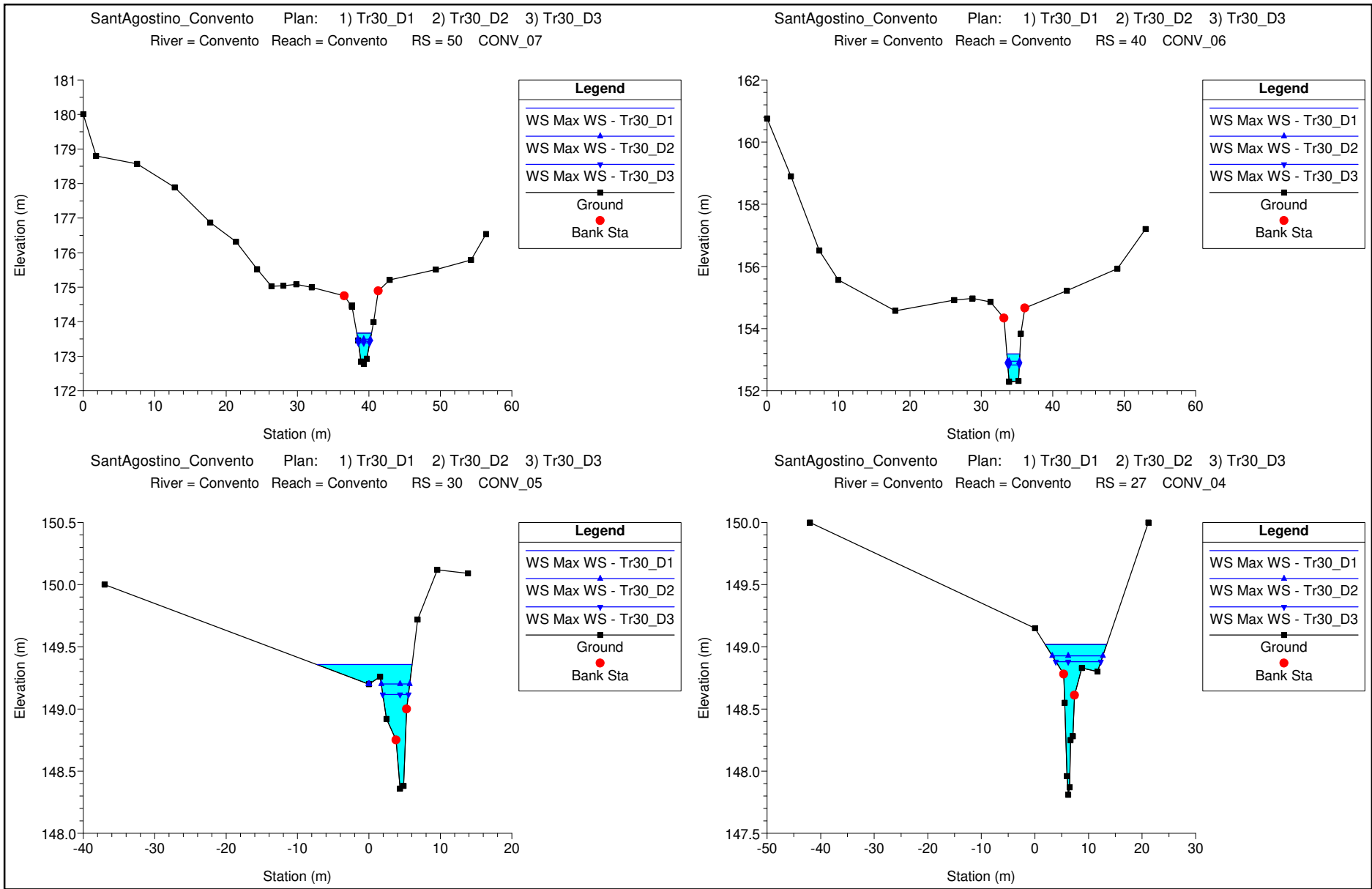
MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

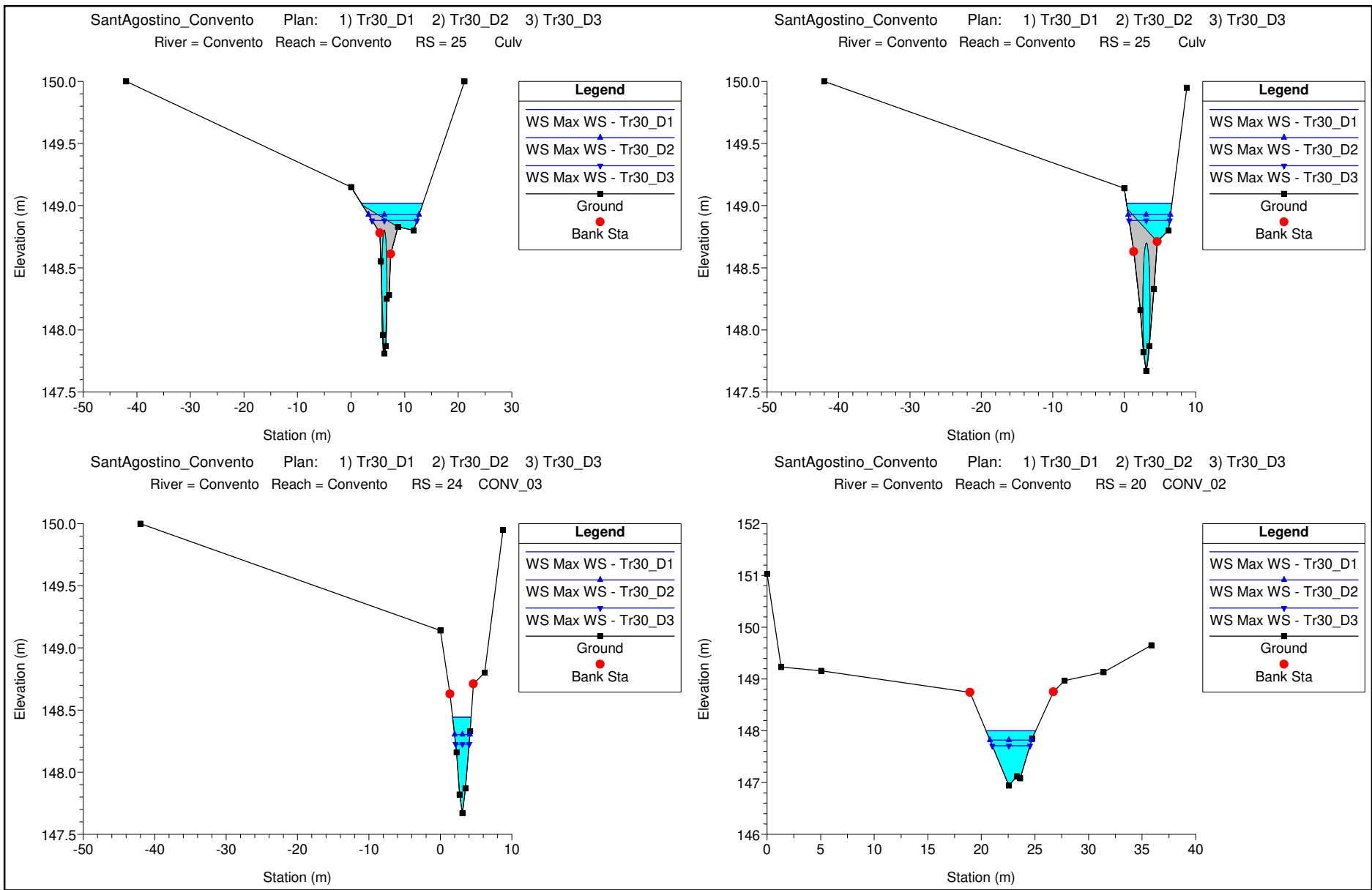
BOTRO DEL CONVENTO

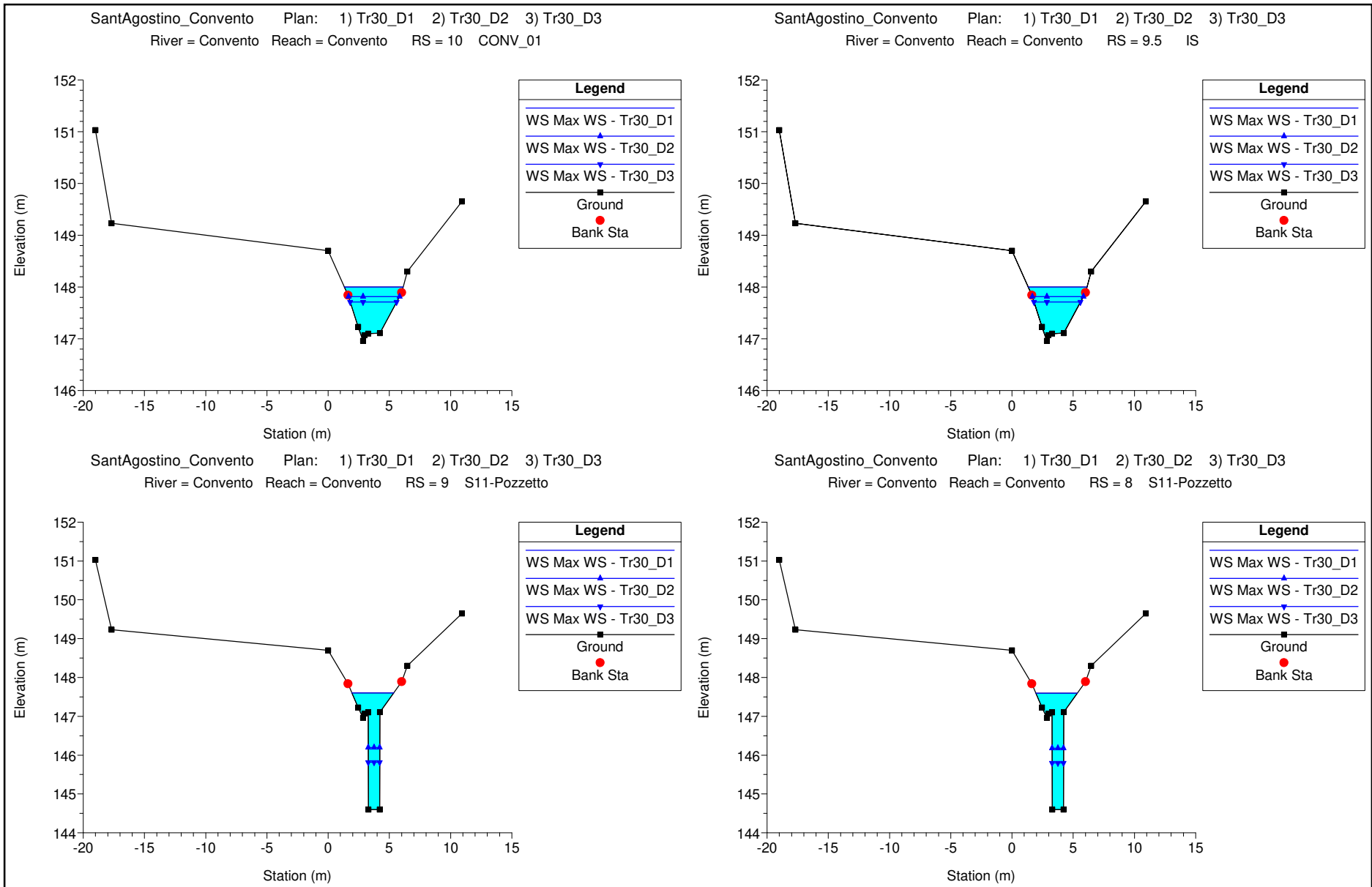
MODELLAZIONE PER TR=30 anni

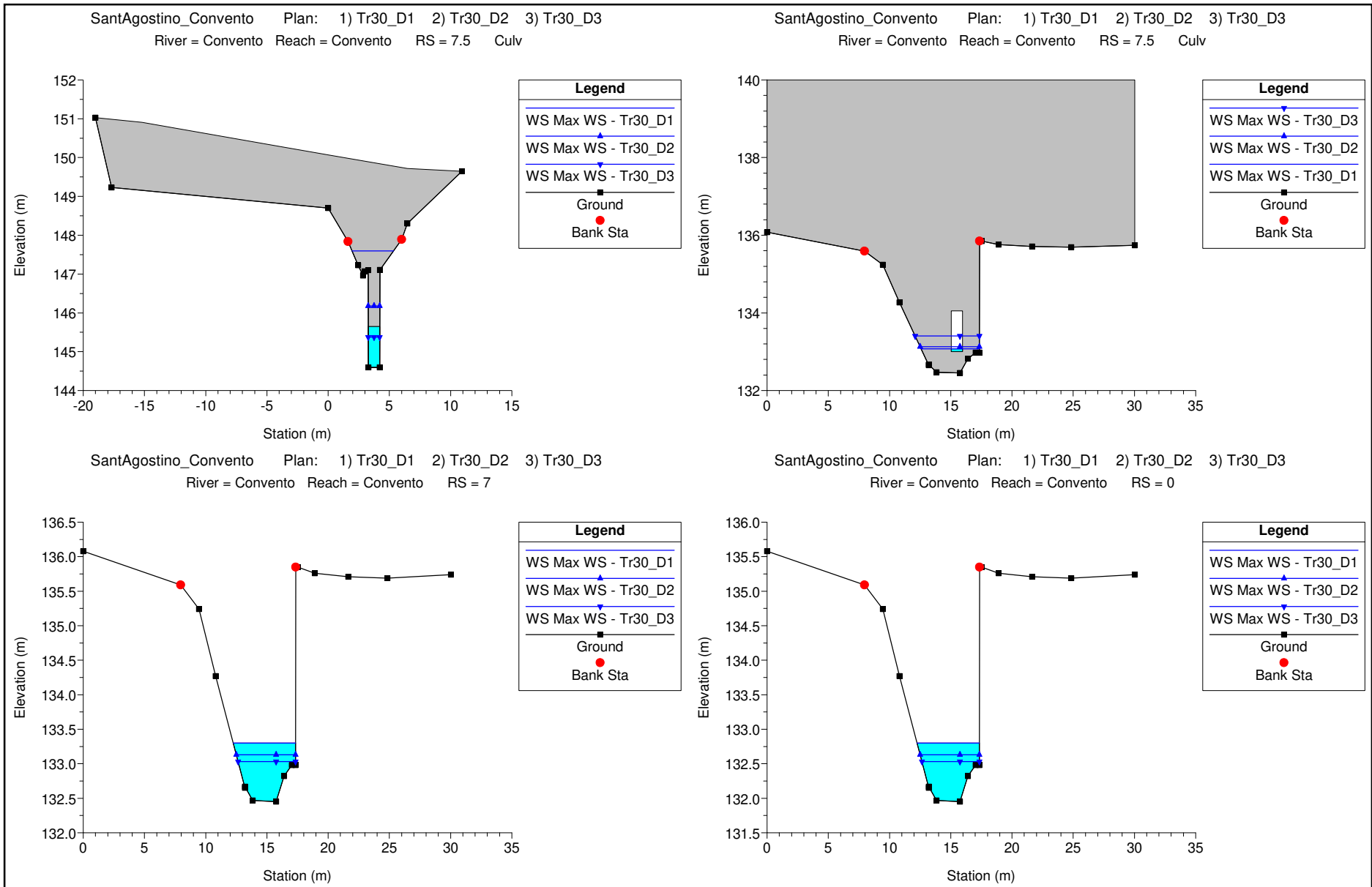
DURATE DI PIOGGIA: 1h, 2h, 3h

Sezioni Trasversali (da monte verso valle)









ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

BOTRO DEL CONVENTO

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Convento Reach: Convento Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Convento	50	Max WS	Tr30_D1	4.30	172.79	173.67	173.90	174.40	0.058835	3.77			1.14	2.06	1.62
Convento	50	Max WS	Tr30_D2	2.70	172.79	173.50	173.67	174.06	0.057189	3.34			0.81	1.75	1.57
Convento	50	Max WS	Tr30_D3	2.00	172.79	173.39	173.55	173.90	0.062073	3.19			0.63	1.57	1.61
Convento	40	Max WS	Tr30_D1	4.29	152.29	153.18	153.26	153.68	0.036230	3.13			1.37	1.81	1.15
Convento	40	Max WS	Tr30_D2	2.70	152.29	152.95	153.02	153.35	0.037093	2.80			0.96	1.68	1.18
Convento	40	Max WS	Tr30_D3	2.00	152.29	152.83	152.89	153.18	0.038673	2.62			0.76	1.61	1.21
Convento	30	Max WS	Tr30_D1	4.29	148.36	149.36	149.23	149.62	0.015567	2.62	0.60	0.62	3.06	13.31	0.92
Convento	30	Max WS	Tr30_D2	2.70	148.36	149.20	149.18	149.41	0.014500	2.20	0.86	0.41	1.63	4.12	0.86
Convento	30	Max WS	Tr30_D3	2.00	148.36	149.12	149.09	149.29	0.013740	1.96	0.72	0.28	1.31	3.59	0.82
Convento	27	Max WS	Tr30_D1	4.29	147.81	149.02		149.20	0.011083	2.07	0.43	0.60	3.25	11.51	0.73
Convento	27	Max WS	Tr30_D2	2.70	147.81	148.93		149.05	0.008261	1.65	0.27	0.38	2.29	9.44	0.62
Convento	27	Max WS	Tr30_D3	2.00	147.81	148.88		148.97	0.006296	1.38	0.18	0.26	1.87	8.39	0.54
Convento	25			Culvert											
Convento	24	Max WS	Tr30_D1	4.29	147.67	148.44	148.70	149.27	0.079776	4.02			1.07	2.59	2.00
Convento	24	Max WS	Tr30_D2	2.70	147.67	148.30	148.52	148.99	0.084965	3.67			0.74	2.15	2.00
Convento	24	Max WS	Tr30_D3	2.00	147.67	148.23	148.42	148.83	0.086915	3.45			0.58	1.89	1.99
Convento	20	Max WS	Tr30_D1	4.29	146.94	148.00		148.12	0.006970	1.56			2.74	4.63	0.65
Convento	20	Max WS	Tr30_D2	2.70	146.94	147.82		147.91	0.006608	1.37			1.97	3.88	0.61
Convento	20	Max WS	Tr30_D3	2.00	146.94	147.71		147.79	0.006612	1.27			1.58	3.52	0.60
Convento	10	Max WS	Tr30_D1	4.29	146.96	148.00	147.78	148.11	0.005486	1.49	0.21	0.15	2.91	4.80	0.59
Convento	10	Max WS	Tr30_D2	2.70	146.96	147.82	147.63	147.90	0.005996	1.30			2.08	4.18	0.59
Convento	10	Max WS	Tr30_D3	2.00	146.96	147.71	147.54	147.78	0.006155	1.21			1.66	3.79	0.58
Convento	9.5			Inl Struct											
Convento	9	Max WS	Tr30_D1	4.29	144.60	147.60		147.68	0.005492	1.18			3.64	3.41	0.36
Convento	9	Max WS	Tr30_D2	2.70	144.60	146.19		146.36	0.015504	1.81			1.49	0.94	0.46
Convento	9	Max WS	Tr30_D3	2.00	144.60	145.82		145.97	0.016055	1.76			1.14	0.94	0.51
Convento	8	Max WS	Tr30_D1	4.29	144.60	147.60		147.67	0.005571	1.19			3.62	3.39	0.37
Convento	8	Max WS	Tr30_D2	2.70	144.60	146.18		146.35	0.015904	1.83			1.48	0.94	0.47
Convento	8	Max WS	Tr30_D3	2.00	144.60	145.80		145.96	0.016626	1.78			1.12	0.94	0.52
Convento	7.5			Culvert											
Convento	7	Max WS	Tr30_D1	4.29	132.45	133.30		133.39	0.005039	1.36			3.16	5.10	0.55
Convento	7	Max WS	Tr30_D2	2.70	132.45	133.13		133.20	0.005044	1.17			2.31	4.85	0.54
Convento	7	Max WS	Tr30_D3	2.00	132.45	133.03		133.09	0.005487	1.08			1.84	4.71	0.55
Convento	0	Max WS	Tr30_D1	4.28	131.95	132.80	132.58	132.89	0.005027	1.35			3.16	5.10	0.55
Convento	0	Max WS	Tr30_D2	2.70	131.95	132.63	132.44	132.70	0.005051	1.17			2.31	4.85	0.54
Convento	0	Max WS	Tr30_D3	2.00	131.95	132.53	132.36	132.59	0.005482	1.08			1.85	4.71	0.55

ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

FOSSO DI SANT'AGOSTINO

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

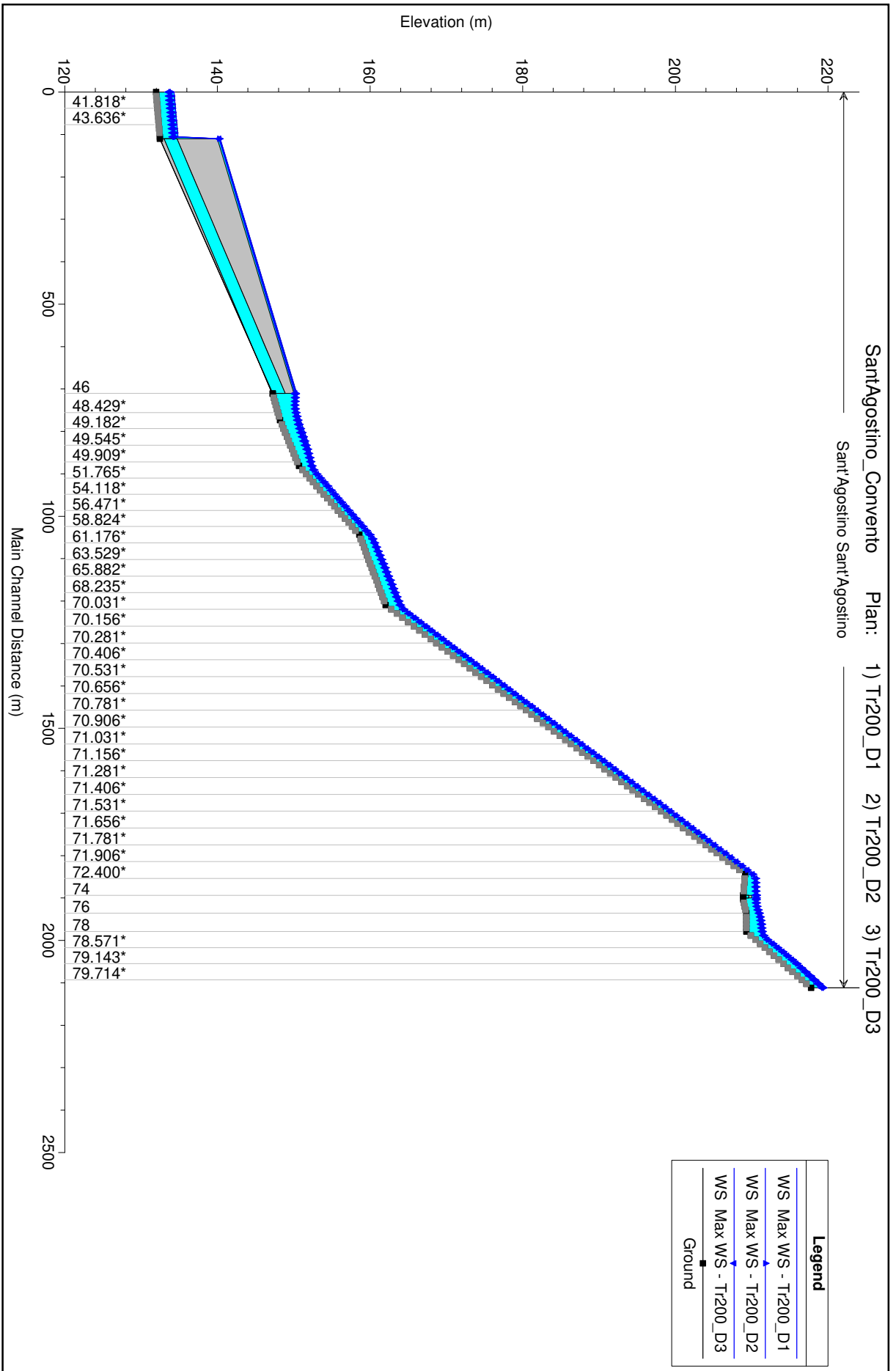
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FOSSO DI SANT'AGOSTINO

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale



ALLEGATI

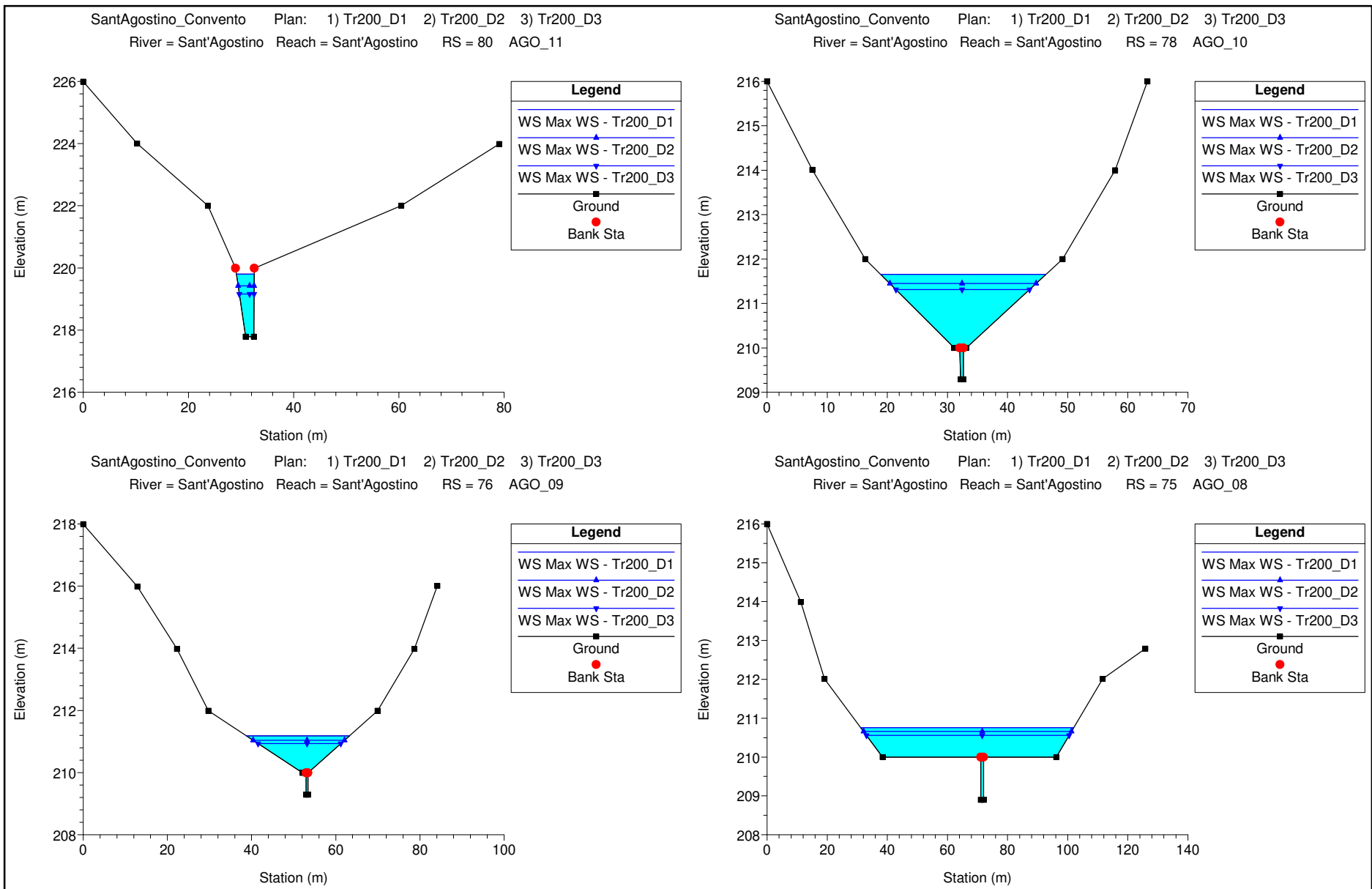
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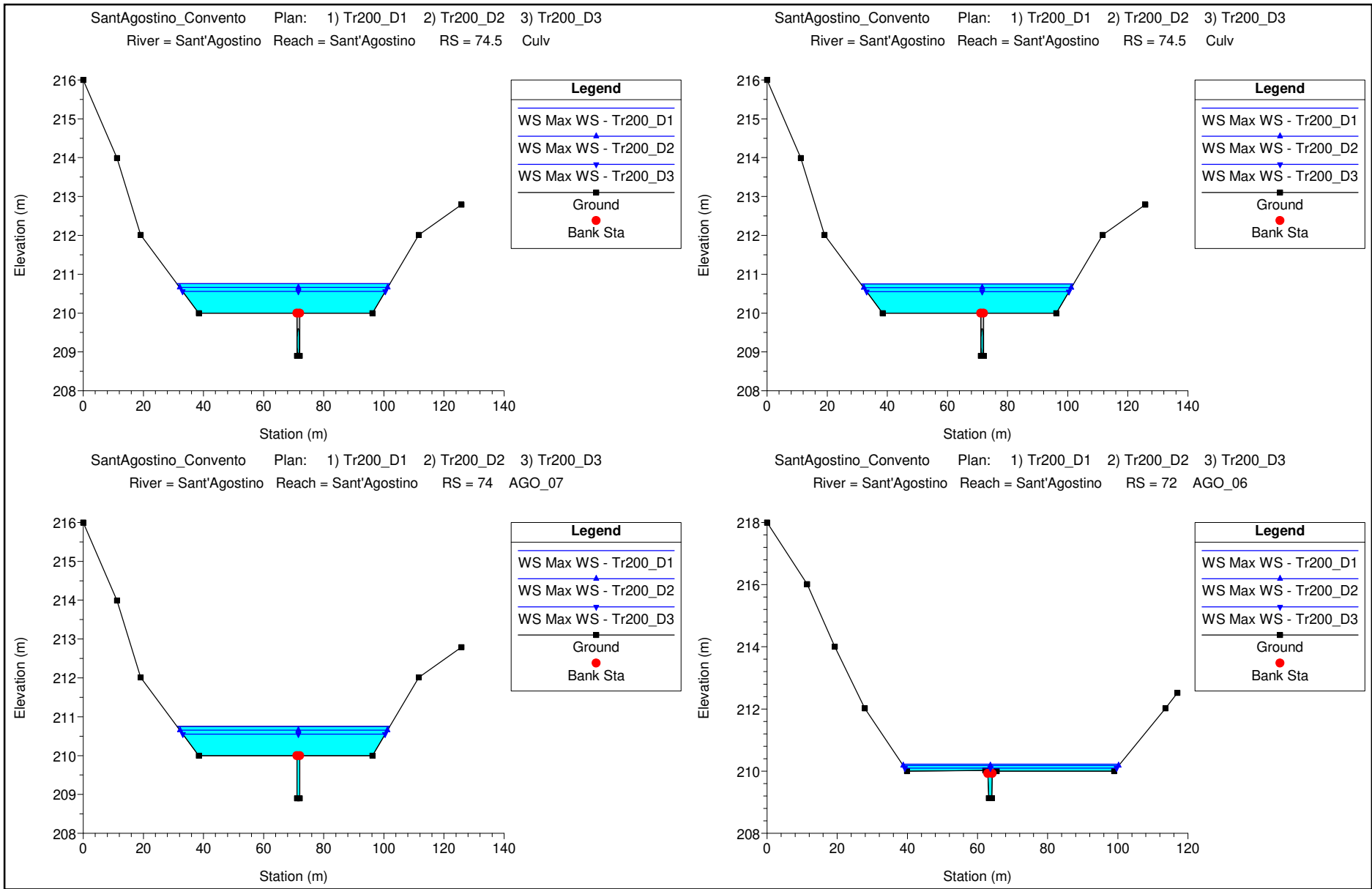
FOSSO DI SANT'AGOSTINO

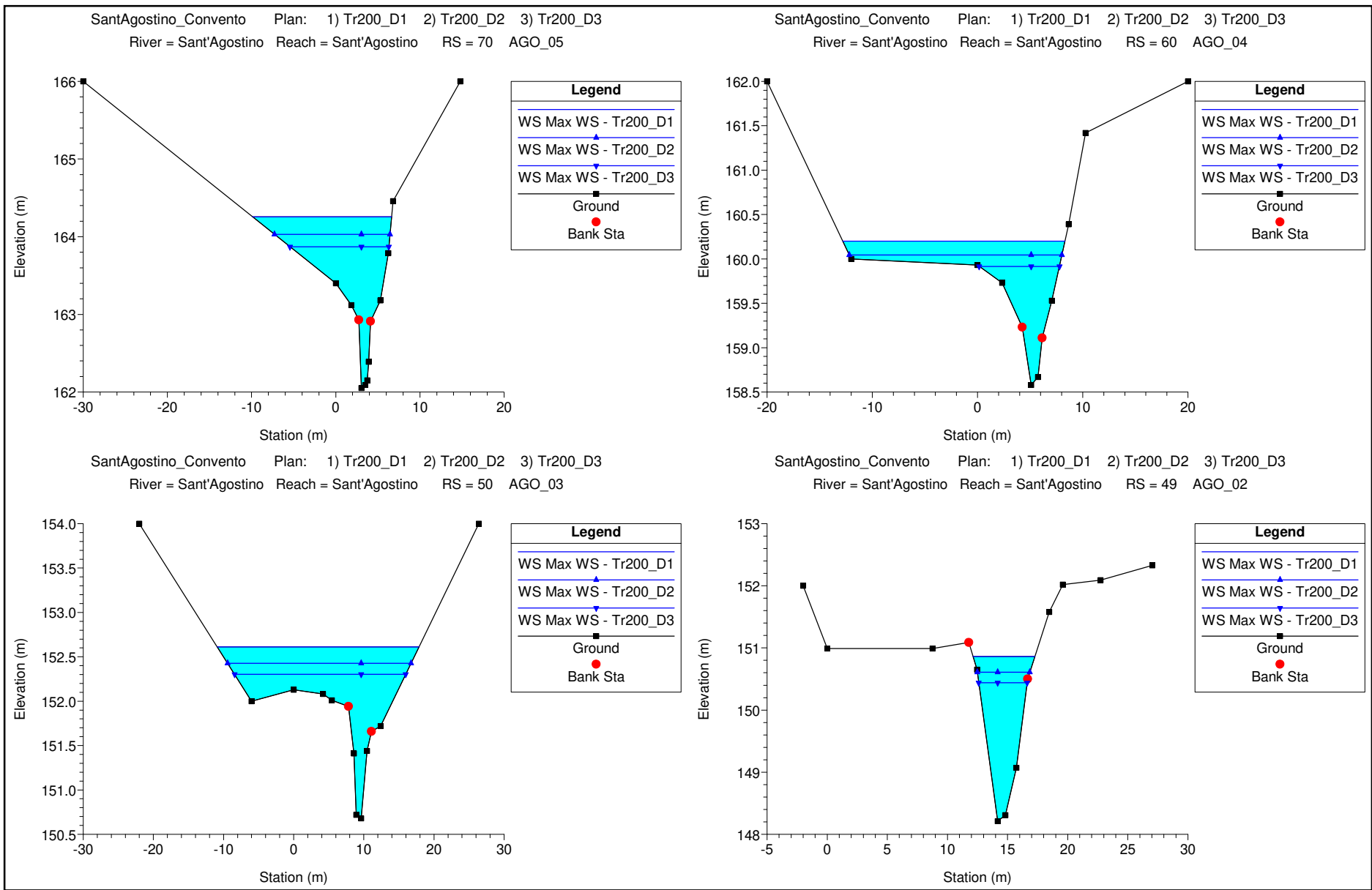
MODELLAZIONE PER TR=200 anni

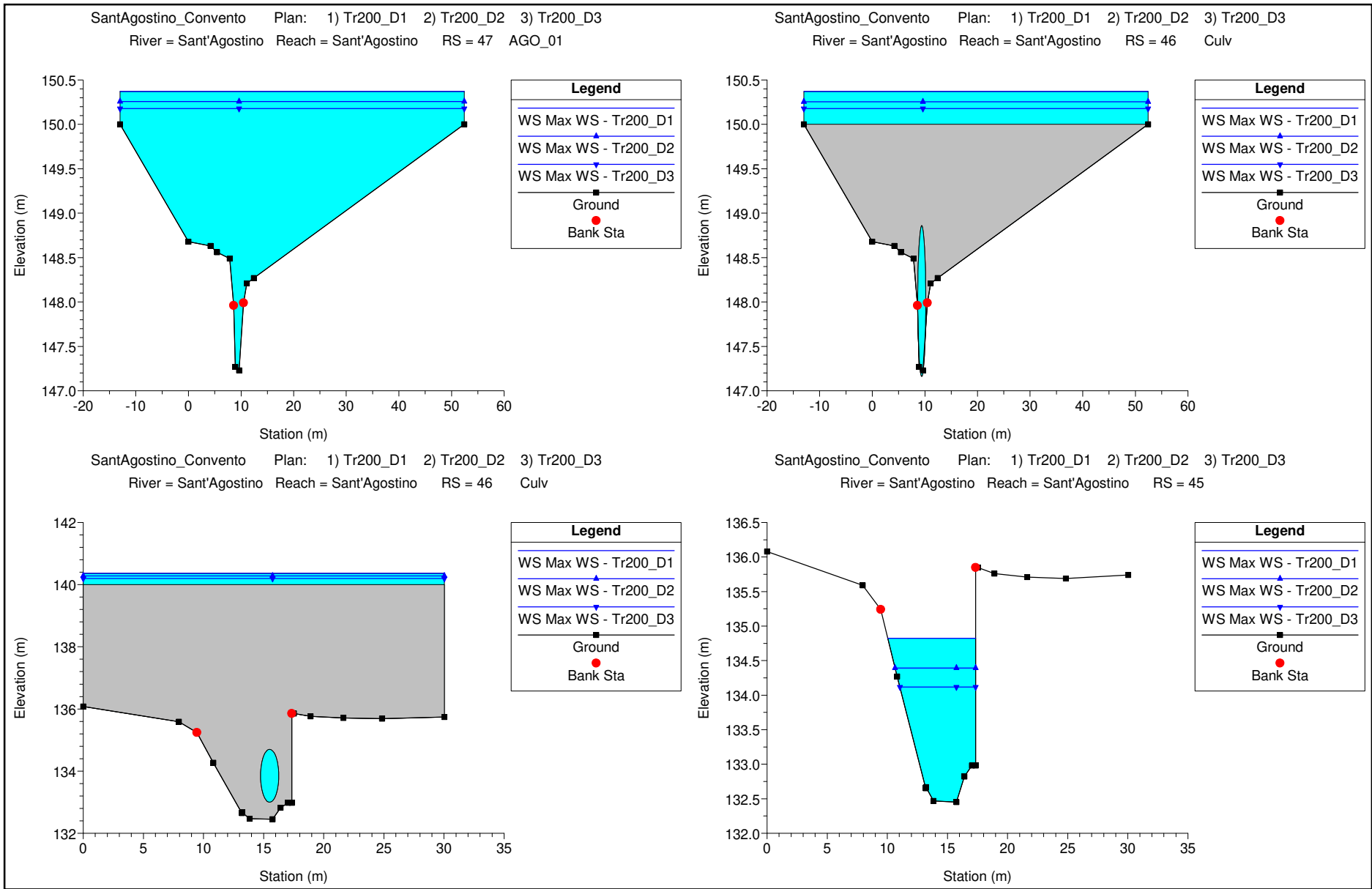
DURATE DI PIOGGIA: 1h, 2h, 3h

Sezioni Trasversali (da monte verso valle)



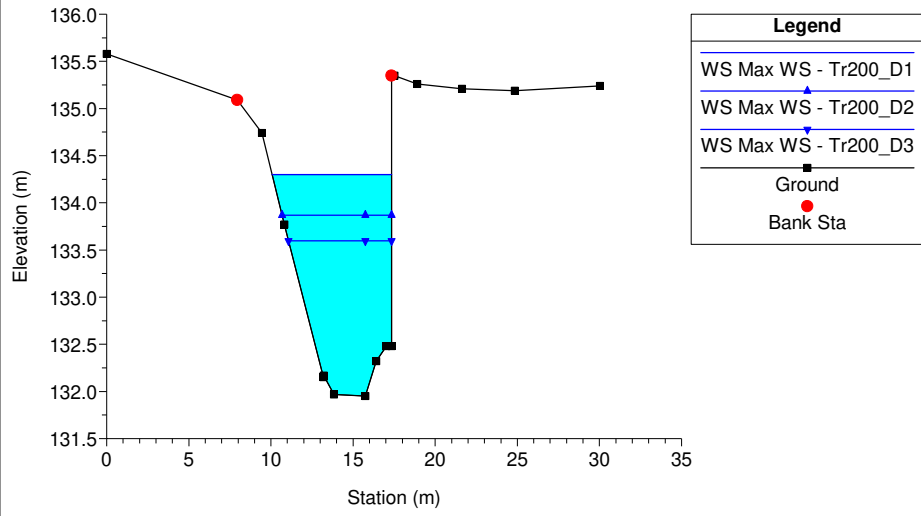






SantAgostino_Convento Plan: 1) Tr200_D1 2) Tr200_D2 3) Tr200_D3

River = Sant'Agostino Reach = Sant'Agostino RS = 40 muro a destra, incinazione???



ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

FOSSO DI SANT'AGOSTINO

MODELLAZIONE PER TR=200 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Sant'Agostino	80	Max WS	Tr200_D1	29.80	217.79	219.80	220.63	221.65	0.060298	6.02			4.95	3.36	1.59
Sant'Agostino	80	Max WS	Tr200_D2	20.30	217.79	219.42	219.89	220.93	0.058664	5.45			3.73	3.02	1.57
Sant'Agostino	80	Max WS	Tr200_D3	15.20	217.79	219.16	219.57	220.49	0.059528	5.11			2.97	2.78	1.58
Sant'Agostino	78	Max WS	Tr200_D1	29.74	209.29	211.66		211.73	0.005913	1.82	1.17	1.15	24.80	27.51	0.38
Sant'Agostino	78	Max WS	Tr200_D2	20.30	209.29	211.45		211.51	0.005218	1.60	1.01	0.99	19.46	24.33	0.36
Sant'Agostino	78	Max WS	Tr200_D3	15.20	209.29	211.31		211.36	0.004665	1.45	0.90	0.88	16.30	22.24	0.33
Sant'Agostino	76	Max WS	Tr200_D1	29.72	209.29	211.19		211.37	0.023213	2.63	1.87	1.79	15.79	24.57	0.61
Sant'Agostino	76	Max WS	Tr200_D2	20.29	209.29	211.04		211.18	0.020353	2.33	1.61	1.54	12.43	21.75	0.56
Sant'Agostino	76	Max WS	Tr200_D3	15.20	209.29	210.93		211.05	0.019183	2.17	1.46	1.39	10.20	19.65	0.54
Sant'Agostino	75	Max WS	Tr200_D1	29.69	208.90	210.76		210.78	0.002021	0.89	0.58	0.58	49.93	70.88	0.21
Sant'Agostino	75	Max WS	Tr200_D2	20.29	208.90	210.66		210.67	0.001496	0.74	0.46	0.46	42.99	69.16	0.18
Sant'Agostino	75	Max WS	Tr200_D3	15.20	208.90	210.56		210.57	0.001435	0.69	0.41	0.41	36.15	67.42	0.17
Sant'Agostino	74.5														
Sant'Agostino	74	Max WS	Tr200_D1	29.69	208.90	210.75		210.77	0.002115	0.90	0.59	0.59	49.20	70.70	0.21
Sant'Agostino	74	Max WS	Tr200_D2	20.29	208.90	210.65		210.67	0.001557	0.75	0.47	0.47	42.45	69.03	0.18
Sant'Agostino	74	Max WS	Tr200_D3	15.20	208.90	210.55		210.56	0.001502	0.71	0.41	0.41	35.61	67.29	0.18
Sant'Agostino	72	Max WS	Tr200_D1	29.67	209.13	210.22	210.34	210.67	0.088053	5.31	1.74	1.80	14.27	62.00	1.73
Sant'Agostino	72	Max WS	Tr200_D2	20.28	209.13	210.18	210.28	210.57	0.075903	4.77	1.38	1.44	11.51	61.41	1.59
Sant'Agostino	72	Max WS	Tr200_D3	15.20	209.13	210.10	210.24	211.24	0.168477	6.69	1.36	1.46	6.68	60.37	2.34
Sant'Agostino	70	Max WS	Tr200_D1	29.64	162.05	164.26	164.39	164.81	0.023127	4.60	1.73	2.11	12.12	16.50	1.05
Sant'Agostino	70	Max WS	Tr200_D2	20.28	162.05	164.03	164.17	164.55	0.022855	4.22	1.50	1.87	8.73	13.73	1.02
Sant'Agostino	70	Max WS	Tr200_D3	15.20	162.05	163.87	164.02	164.38	0.022992	3.97	1.34	1.69	6.70	11.75	1.01
Sant'Agostino	60	Max WS	Tr200_D1	29.62	158.58	160.20	160.58	161.77	0.049007	6.90	1.65	2.34	9.01	21.11	1.87
Sant'Agostino	60	Max WS	Tr200_D2	20.28	158.58	160.05	160.43	161.76	0.052088	6.58	1.10	2.19	5.82	20.21	1.89
Sant'Agostino	60	Max WS	Tr200_D3	15.20	158.58	159.92	160.32	161.38	0.048149	5.88	1.45	1.91	3.83	7.62	1.78
Sant'Agostino	50	Max WS	Tr200_D1	29.60	150.68	152.61	152.84	152.92	0.011955	3.29	1.13	1.19	17.31	28.76	0.89
Sant'Agostino	50	Max WS	Tr200_D2	20.28	150.68	152.43	152.49	152.74	0.012892	3.11	0.91	1.09	12.23	26.15	0.90
Sant'Agostino	50	Max WS	Tr200_D3	15.20	150.68	152.30	152.40	152.63	0.013823	2.99	0.73	1.02	9.11	24.40	0.92
Sant'Agostino	49	Max WS	Tr200_D1	29.57	148.21	150.86	151.23	151.72	0.019795	4.11		0.68	7.28	5.15	1.05
Sant'Agostino	49	Max WS	Tr200_D2	20.28	148.21	150.61		151.18	0.014944	3.34		0.26	6.08	4.37	0.89
Sant'Agostino	49	Max WS	Tr200_D3	15.20	148.21	150.44		150.85	0.011850	2.83			5.38	4.03	0.78
Sant'Agostino	48.9														
Sant'Agostino	48.8														
Sant'Agostino	47	Max WS	Tr200_D1	29.37	147.23	150.37		150.38	0.000246	0.73	0.31	0.31	87.90	65.41	0.14
Sant'Agostino	47	Max WS	Tr200_D2	20.19	147.23	150.26		150.26	0.000154	0.56	0.23	0.23	80.48	65.41	0.11
Sant'Agostino	47	Max WS	Tr200_D3	15.17	147.23	150.18		150.18	0.000107	0.46	0.19	0.18	75.34	65.41	0.09
Sant'Agostino	46														
Sant'Agostino	45	Max WS	Tr200_D1	29.35	132.45	134.82		135.10	0.004822	2.32			12.64	7.31	0.56
Sant'Agostino	45	Max WS	Tr200_D2	20.19	132.45	134.39		134.62	0.004809	2.10			9.61	6.70	0.56
Sant'Agostino	45	Max WS	Tr200_D3	15.17	132.45	134.12		134.31	0.004787	1.94			7.82	6.30	0.56
Sant'Agostino	40	Max WS	Tr200_D1	29.32	131.95	134.30	133.68	134.58	0.005002	2.35			12.46	7.28	0.57
Sant'Agostino	40	Max WS	Tr200_D2	20.19	131.95	133.87	133.36	134.10	0.005017	2.13			9.47	6.67	0.57
Sant'Agostino	40	Max WS	Tr200_D3	15.17	131.95	133.60	133.16	133.79	0.005012	1.97			7.69	6.27	0.57

ALLEGATI

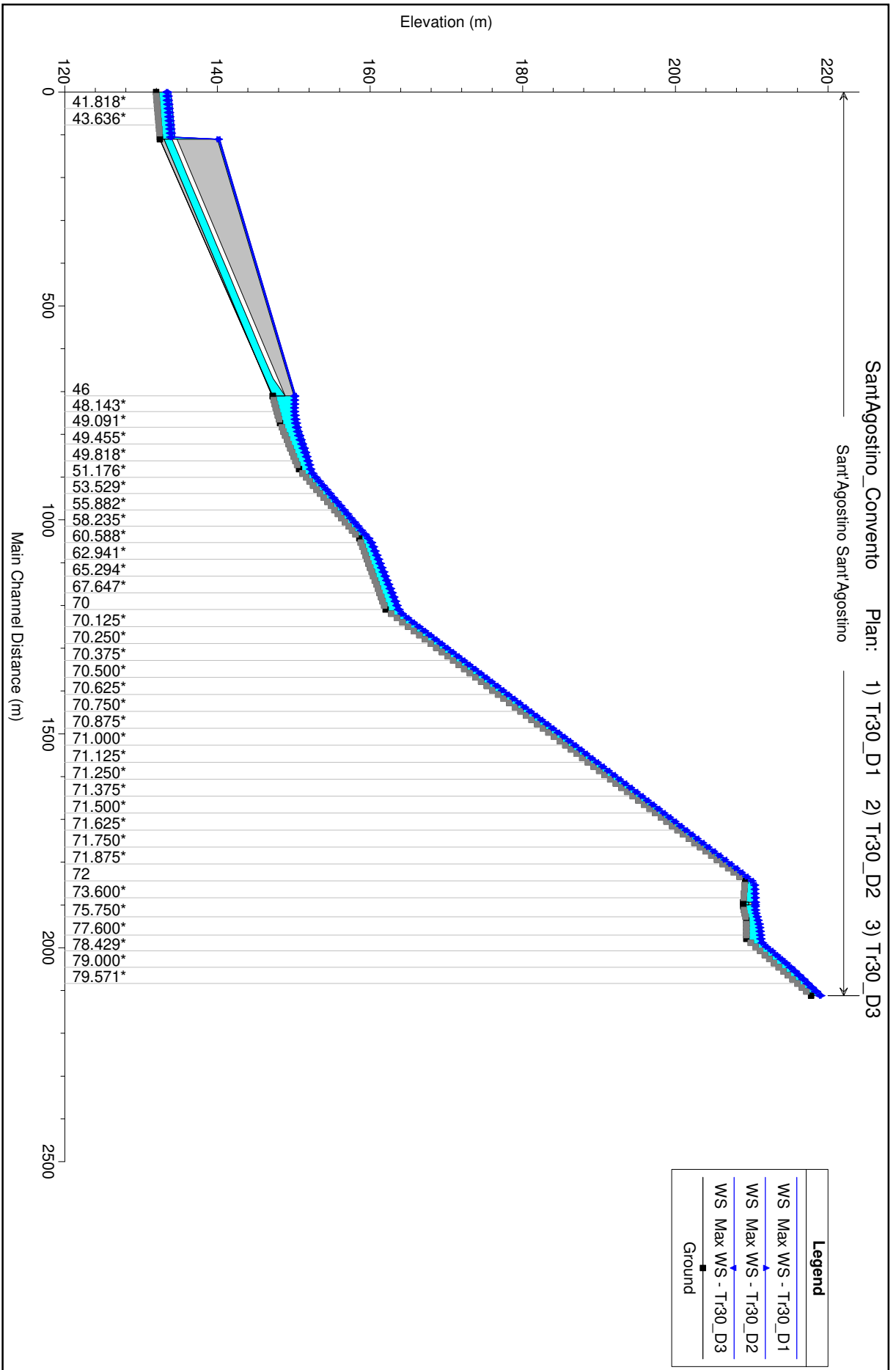
MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

FOSSO DI SANT'AGOSTINO

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Profilo longitudinale



ALLEGATI

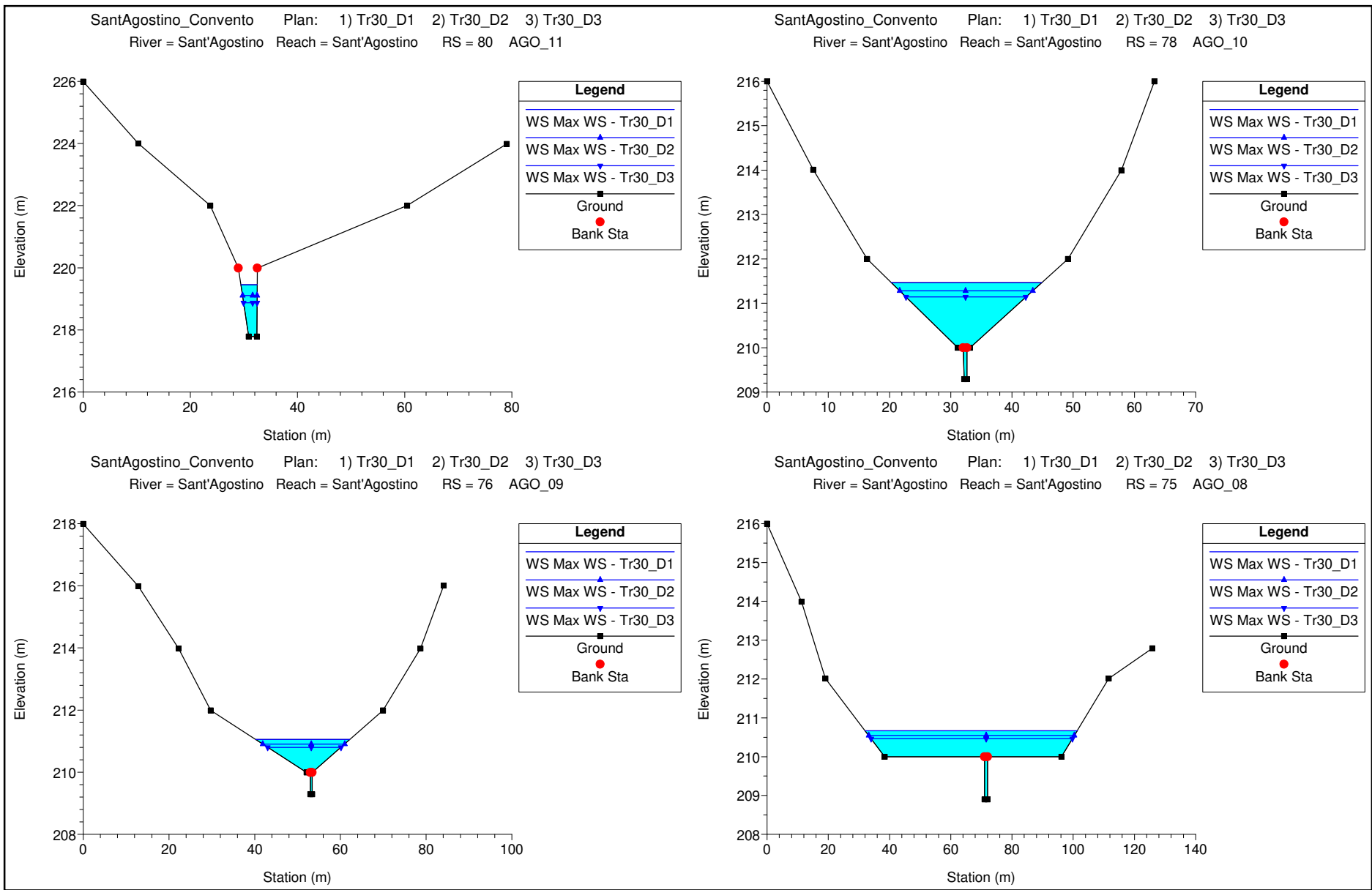
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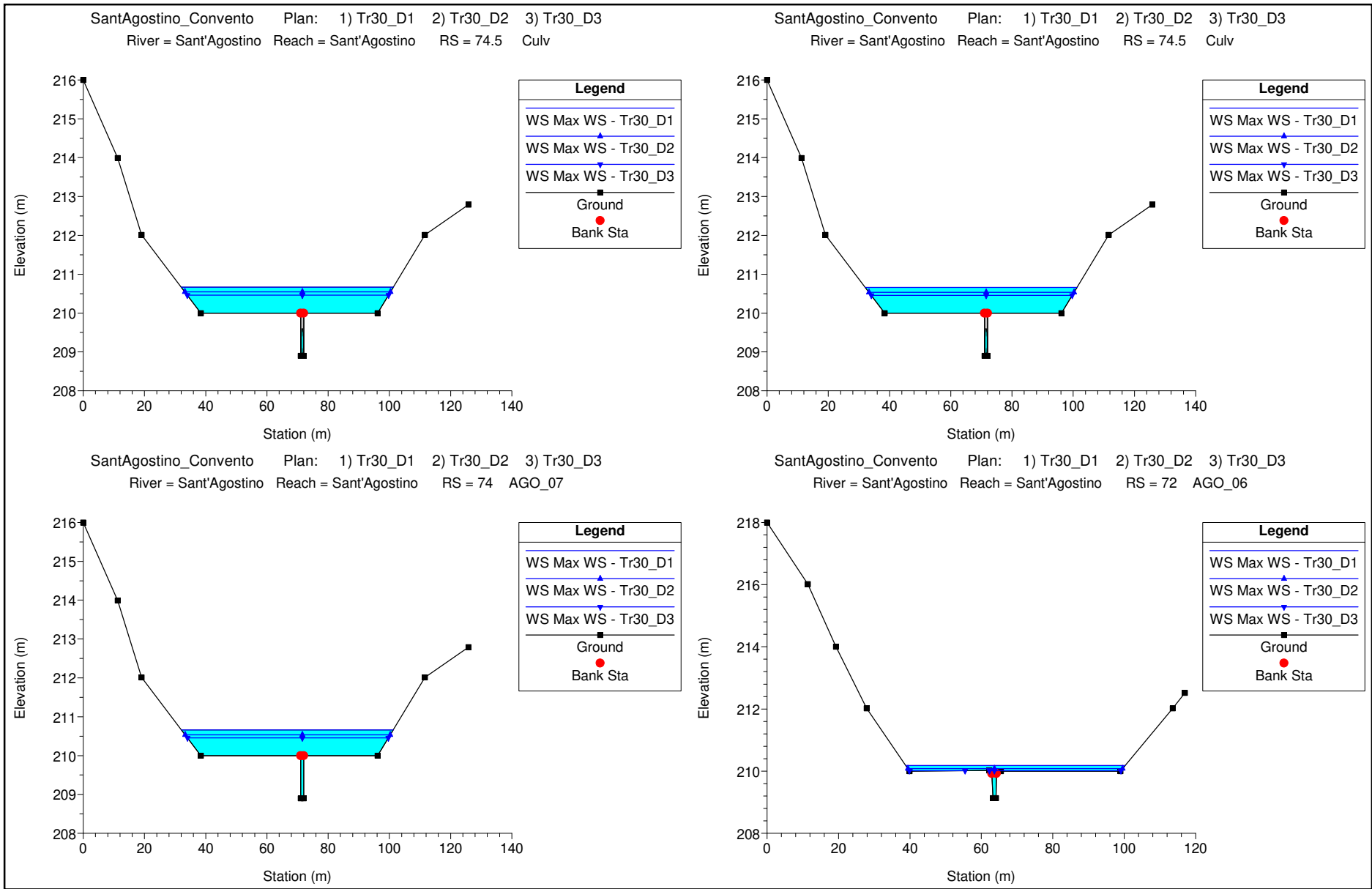
FOSSO DI SANT'AGOSTINO

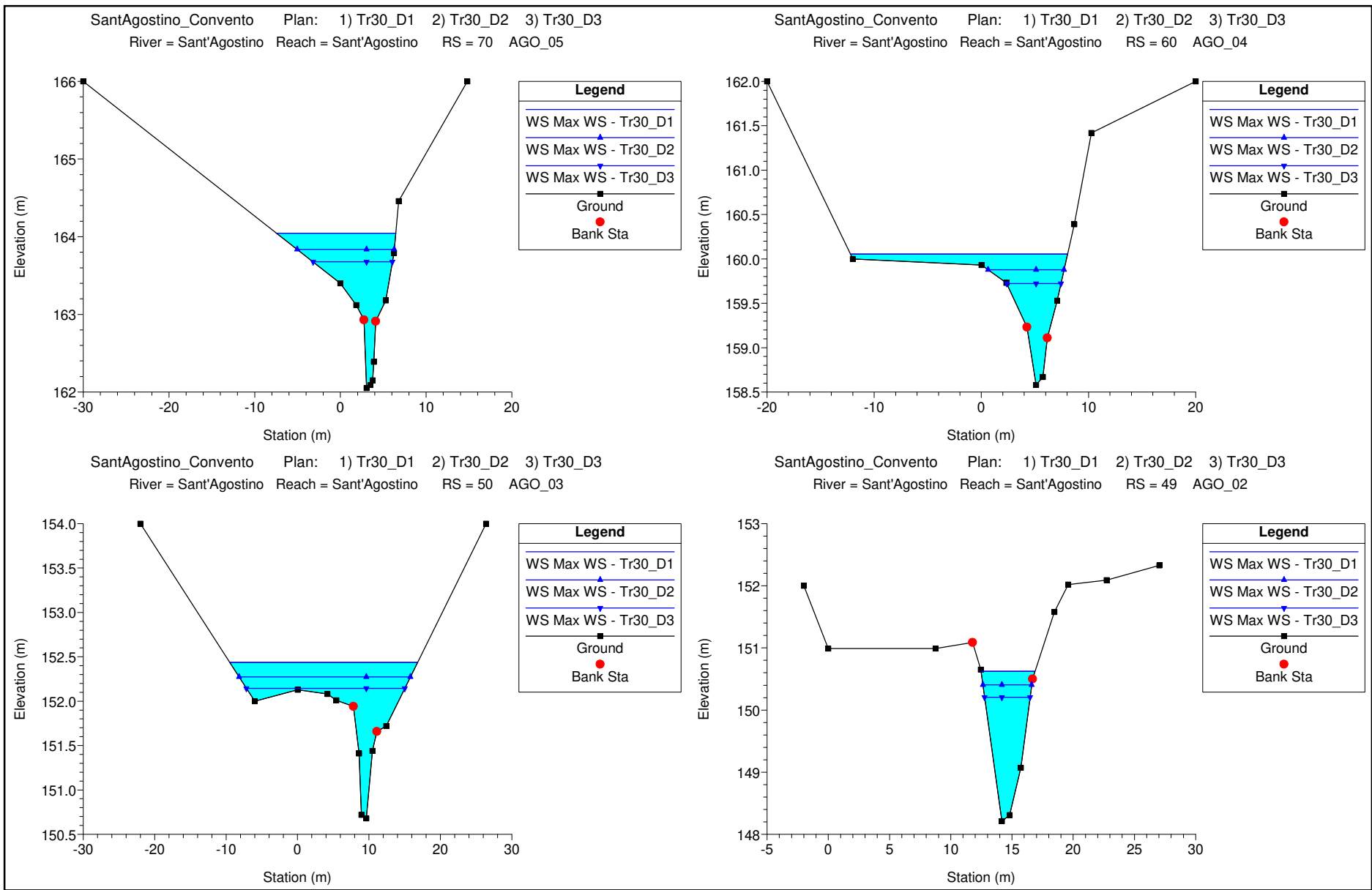
MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

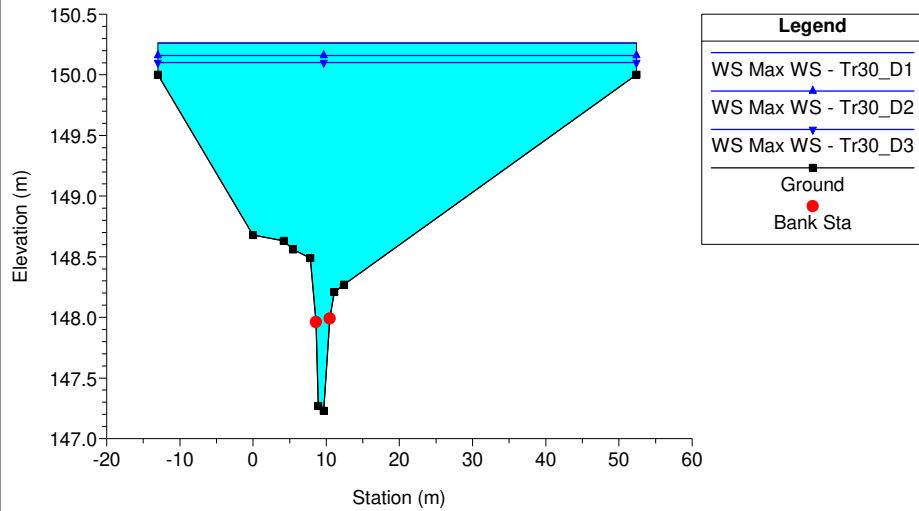
Sezioni Trasversali (da monte verso valle)



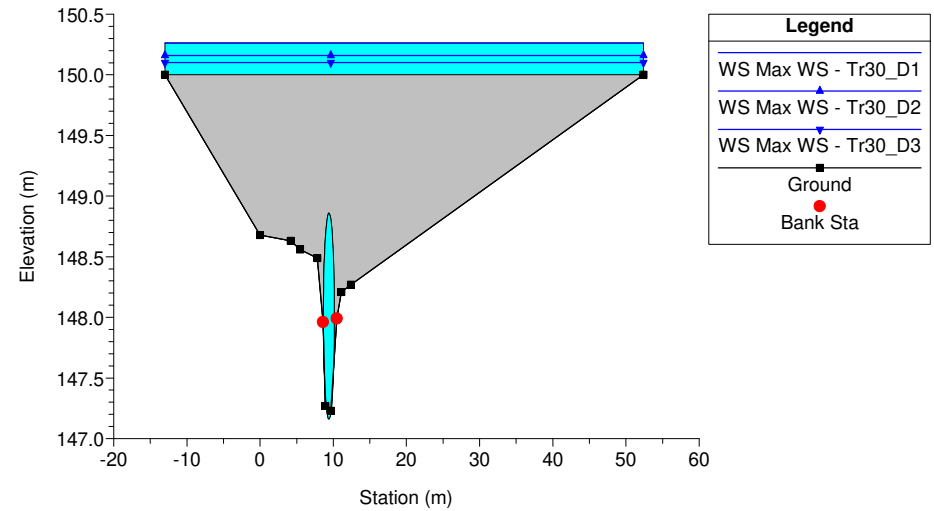




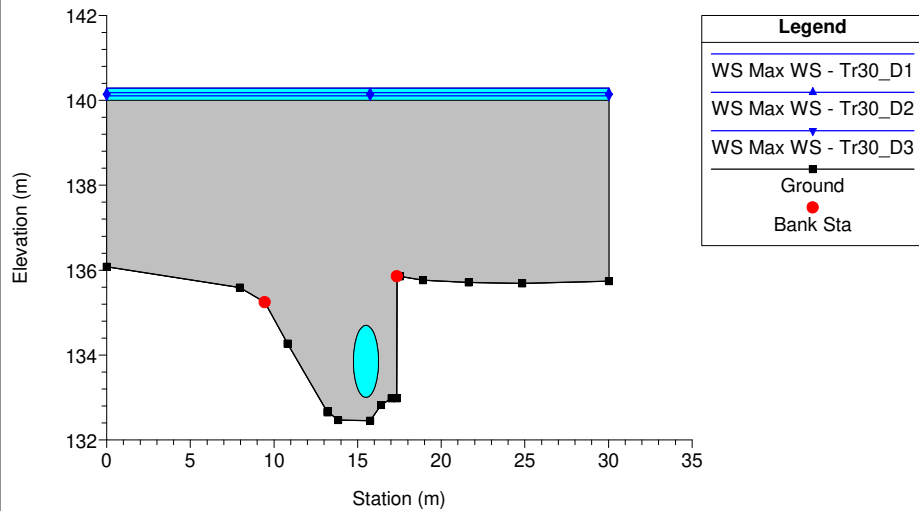
SantAgostino_Convento Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Sant'Agostino Reach = Sant'Agostino RS = 47 AGO_01



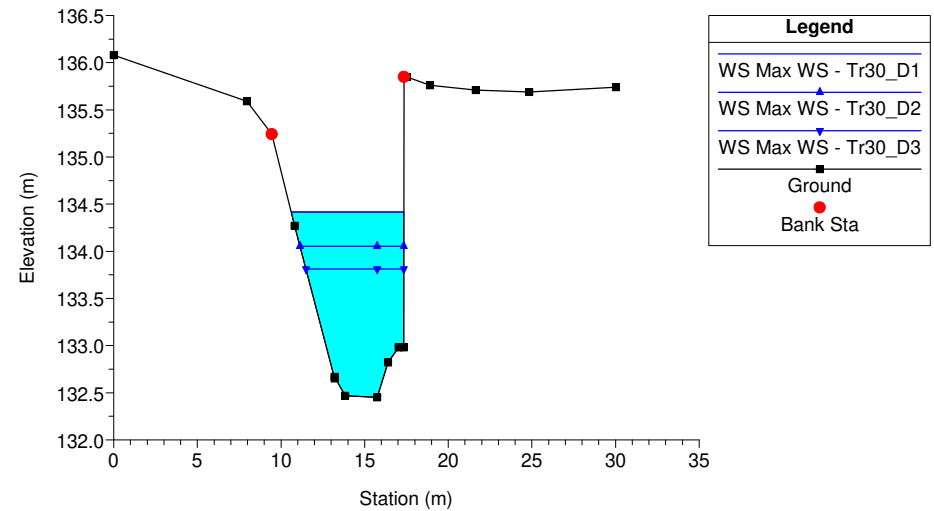
SantAgostino_Convento Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Sant'Agostino Reach = Sant'Agostino RS = 46 Culv



SantAgostino_Convento Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Sant'Agostino Reach = Sant'Agostino RS = 46 Culv

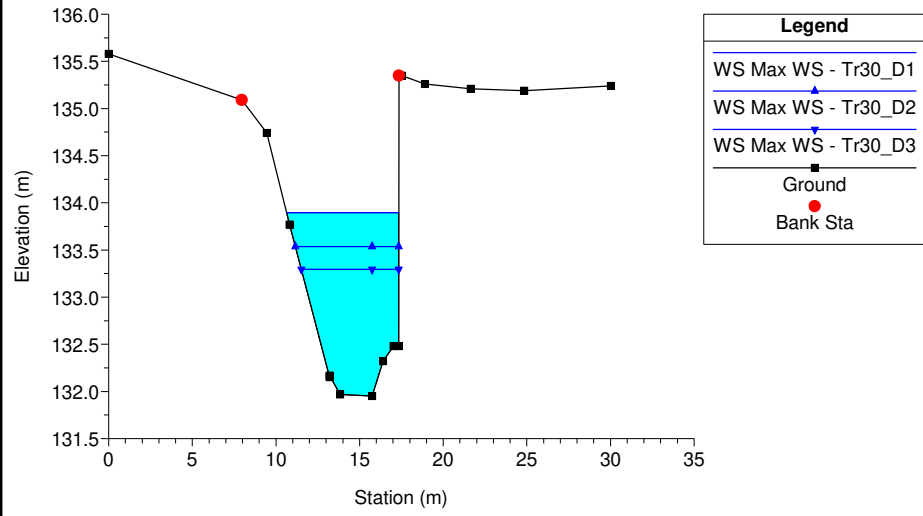


SantAgostino_Convento Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3
 River = Sant'Agostino Reach = Sant'Agostino RS = 45



SantAgostino_Convento Plan: 1) Tr30_D1 2) Tr30_D2 3) Tr30_D3

River = Sant'Agostino Reach = Sant'Agostino RS = 40 muro a destra, incinazione???



ALLEGATI

MODELLAZIONE HEC-RAS 5.0.7 "SantAgostino_Convento"

FOSSO DI SANT'AGOSTINO

MODELLAZIONE PER TR=30 anni

DURATE DI PIOGGIA: 1h, 2h, 3h

Dati idraulici

HEC-RAS River: Sant'Agostino Reach: Sant'Agostino Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Sant'Agostino	80	Max WS	Tr30_D1	21.00	217.79	219.45	219.93	220.99	0.058694	5.49			3.82	3.05	1.57
Sant'Agostino	80	Max WS	Tr30_D2	14.20	217.79	219.11	219.50	220.40	0.059497	5.03			2.82	2.74	1.58
Sant'Agostino	80	Max WS	Tr30_D3	10.40	217.79	218.88	219.22	220.00	0.060791	4.70			2.21	2.53	1.60
Sant'Agostino	78	Max WS	Tr30_D1	20.96	209.29	211.47		211.53	0.005286	1.62	1.03	1.01	19.84	24.57	0.36
Sant'Agostino	78	Max WS	Tr30_D2	14.20	209.29	211.28		211.33	0.004595	1.42	0.88	0.86	15.56	21.72	0.33
Sant'Agostino	78	Max WS	Tr30_D3	10.40	209.29	211.14		211.18	0.004209	1.29	0.78	0.76	12.68	19.57	0.31
Sant'Agostino	76	Max WS	Tr30_D1	20.94	209.29	211.05		211.20	0.020656	2.36	1.63	1.56	12.66	21.95	0.57
Sant'Agostino	76	Max WS	Tr30_D2	14.19	209.29	210.91		211.02	0.019154	2.15	1.44	1.36	9.69	19.14	0.54
Sant'Agostino	76	Max WS	Tr30_D3	10.40	209.29	210.80		210.90	0.018245	2.00	1.30	1.23	7.78	17.09	0.52
Sant'Agostino	75	Max WS	Tr30_D1	20.91	208.90	210.67		210.68	0.001524	0.74	0.47	0.47	43.58	69.31	0.18
Sant'Agostino	75	Max WS	Tr30_D2	14.19	208.90	210.54		210.55	0.001384	0.68	0.39	0.39	34.98	67.12	0.17
Sant'Agostino	75	Max WS	Tr30_D3	10.40	208.90	210.46		210.47	0.001241	0.62	0.34	0.34	29.63	65.73	0.16
Sant'Agostino	74.5				Culvert										
Sant'Agostino	74	Max WS	Tr30_D1	20.92	208.90	210.66		210.67	0.001587	0.76	0.48	0.47	43.02	69.17	0.18
Sant'Agostino	74	Max WS	Tr30_D2	14.19	208.90	210.53		210.54	0.001468	0.69	0.40	0.40	34.32	66.95	0.17
Sant'Agostino	74	Max WS	Tr30_D3	10.40	208.90	210.45		210.46	0.001325	0.64	0.34	0.34	29.01	65.56	0.16
Sant'Agostino	72	Max WS	Tr30_D1	20.91	209.13	210.18	210.28	210.58	0.075732	4.78	1.40	1.46	11.77	61.47	1.59
Sant'Agostino	72	Max WS	Tr30_D2	14.19	209.13	210.08	210.23	211.69	0.214694	7.44	1.32	1.45	5.58	60.13	2.63
Sant'Agostino	72	Max WS	Tr30_D3	10.40	209.13	210.01	210.20	215.12	0.454242	10.24	0.64	0.70	1.65	52.44	3.77
Sant'Agostino	70	Max WS	Tr30_D1	20.88	162.05	164.05	164.19	164.57	0.022942	4.26	1.52	1.90	8.95	13.92	1.02
Sant'Agostino	70	Max WS	Tr30_D2	14.18	162.05	163.84	163.98	164.34	0.022856	3.90	1.30	1.65	6.30	11.32	1.00
Sant'Agostino	70	Max WS	Tr30_D3	10.40	162.05	163.68	163.83	164.16	0.023062	3.65	1.14	1.46	4.65	9.26	0.99
Sant'Agostino	60	Max WS	Tr30_D1	20.86	158.58	160.05	160.44	161.78	0.052397	6.63	1.14	2.21	6.01	20.26	1.90
Sant'Agostino	60	Max WS	Tr30_D2	14.18	158.58	159.88	160.29	161.31	0.048835	5.78	1.42	1.86	3.55	7.10	1.79
Sant'Agostino	60	Max WS	Tr30_D3	10.40	158.58	159.72	160.19	160.96	0.049440	5.24	1.42	1.60	2.60	5.06	1.75
Sant'Agostino	50	Max WS	Tr30_D1	20.84	150.68	152.44	152.50	152.76	0.012849	3.12	0.93	1.10	12.55	26.32	0.90
Sant'Agostino	50	Max WS	Tr30_D2	14.18	150.68	152.27	152.36	152.61	0.014095	2.97	0.69	1.00	8.42	24.00	0.92
Sant'Agostino	50	Max WS	Tr30_D3	10.40	150.68	152.14	152.27	152.52	0.016244	2.92	0.41	0.93	5.42	22.16	0.97
Sant'Agostino	49	Max WS	Tr30_D1	20.82	148.21	150.62		151.21	0.015239	3.39		0.29	6.15	4.41	0.90
Sant'Agostino	49	Max WS	Tr30_D2	14.18	148.21	150.40		150.78	0.011084	2.71			5.23	3.98	0.75
Sant'Agostino	49	Max WS	Tr30_D3	10.40	148.21	150.21		150.48	0.009055	2.33			4.47	3.71	0.68
Sant'Agostino	48.9				Lat Struct										
Sant'Agostino	48.8				Lat Struct										
Sant'Agostino	47	Max WS	Tr30_D1	20.71	147.23	150.26		150.27	0.000159	0.57	0.24	0.23	80.92	65.41	0.11
Sant'Agostino	47	Max WS	Tr30_D2	14.15	147.23	150.16		150.16	0.000097	0.44	0.18	0.17	74.20	65.41	0.09
Sant'Agostino	47	Max WS	Tr30_D3	10.39	147.23	150.10		150.10	0.000062	0.34	0.14	0.13	70.25	65.41	0.07
Sant'Agostino	46				Culvert										
Sant'Agostino	45	Max WS	Tr30_D1	20.70	132.45	134.42		134.65	0.004820	2.12			9.78	6.73	0.56
Sant'Agostino	45	Max WS	Tr30_D2	14.15	132.45	134.05		134.24	0.004794	1.90			7.43	6.21	0.56
Sant'Agostino	45	Max WS	Tr30_D3	10.39	132.45	133.81		133.97	0.004758	1.74			5.97	5.85	0.55
Sant'Agostino	40	Max WS	Tr30_D1	20.69	131.95	133.90	133.38	134.13	0.005017	2.15			9.64	6.70	0.57
Sant'Agostino	40	Max WS	Tr30_D2	14.15	131.95	133.53	133.11	133.73	0.005022	1.94			7.31	6.18	0.57
Sant'Agostino	40	Max WS	Tr30_D3	10.39	131.95	133.29	132.94	133.45	0.005004	1.77			5.87	5.83	0.56