

# COMUNE DI CUGLIERI

PROVINCIA DI ORISTANO

## INTERVENTI PER IL SUPERAMENTO DELLE PROBLEMATICHE IDRAULICHE DEL CANALE COPERTO "RIU SALAMEDU"

CUP : C94J18000110006 - CIG : 7869594269

### PROGETTO DI FATTIBILITA' TECNICA ED ECONOMICA

ELABORATO

QUADERNO HEC - RAS

ALL.

N

AGGIORNAMENTO  
GENNAIO 2025

DATA  
LUGLIO 2024

SCALA  
-

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Il Capogruppo

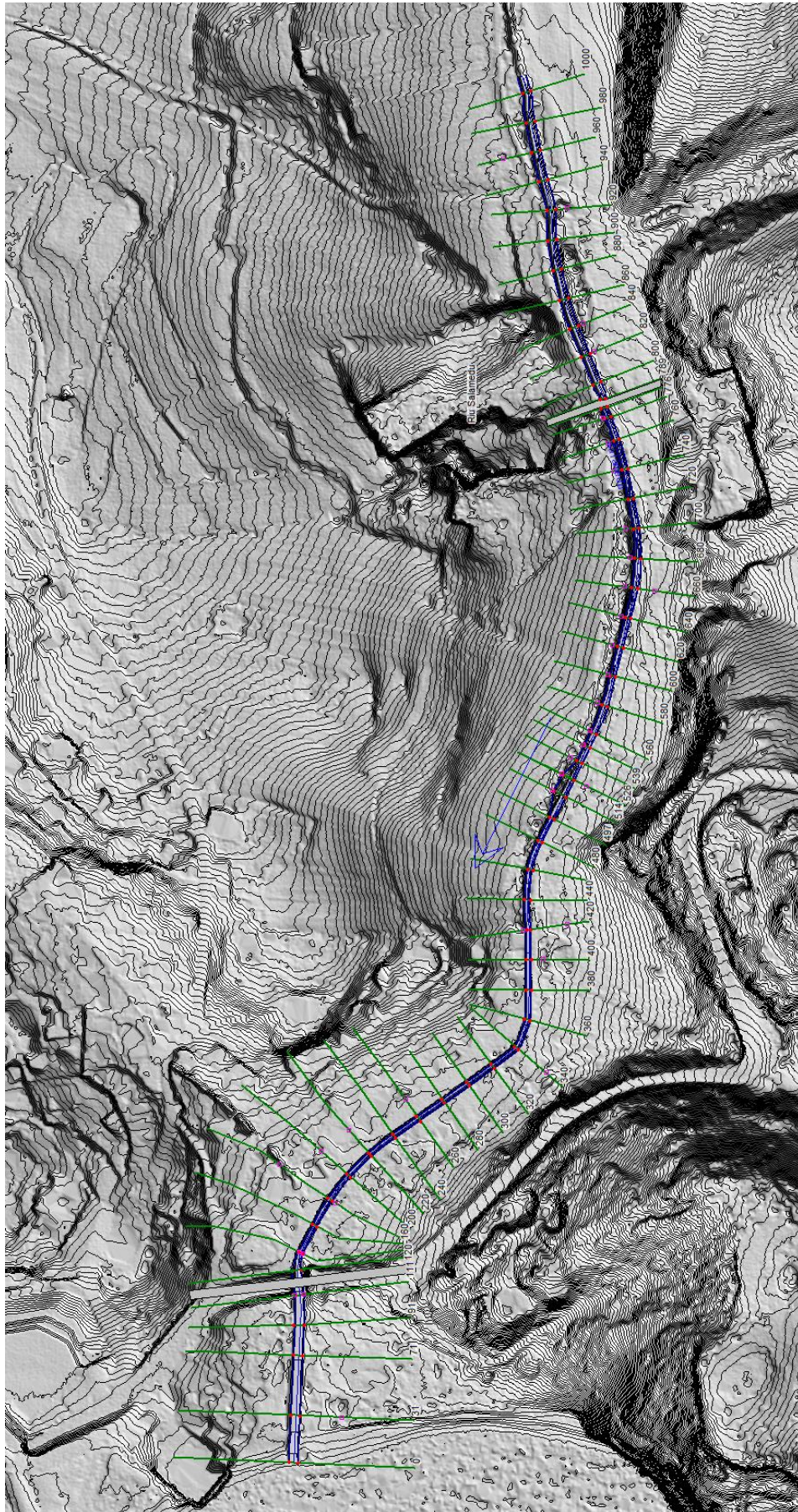
Ing. Elena Demartis

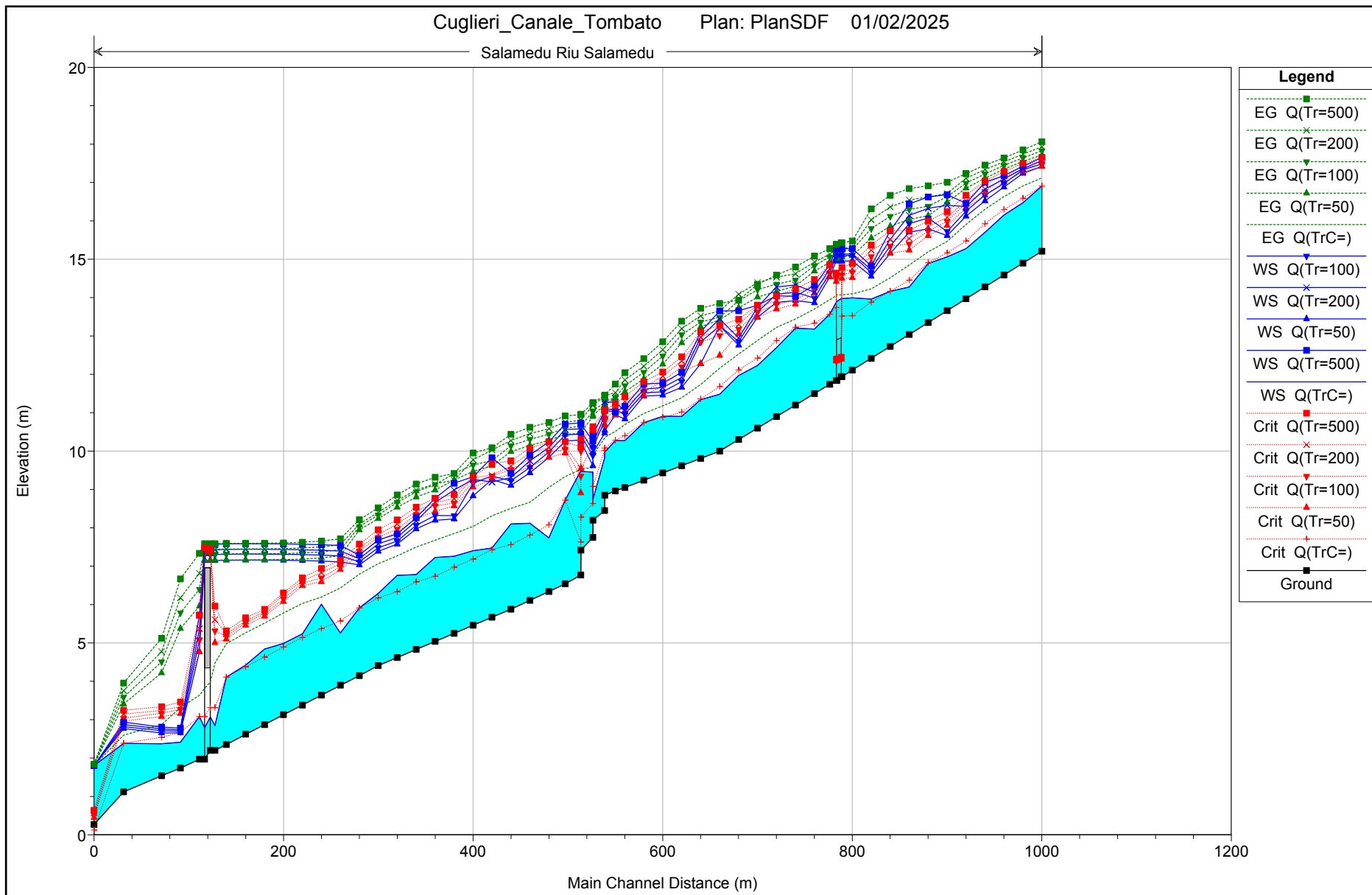
### **INTERVENTI PER IL SUPERAMENTO DELLE PROBLEMATICHE IDRAULICHE DEL CANALE COPERTO "RIU SALAMEDU" NELLA BORGATA DI SANTA CATERINA DI PITTINURI**

Si riportano di seguito le uscite grafiche del software di calcolo Hec- Ras dello stato di fatto (**SDF**), considerando il canale a superficie libera in quanto, come si ribadisce, assolutamente insufficiente al deflusso della piena duecentenaria adottata come riferimento. Si ritiene pertanto poco significativo analizzare la situazione mediante l'impiego della funzione "LID". Il modello restituisce, come atteso, uno scenario con fenomeno di esondazione e rigurgito non trascurabile. L'intervento previsto nel presente progetto prevede l'eliminazione della soletta del canale tombato a monte del ponte senza alcuna modifica sulla sezione dell'alveo. La modellazione idraulica dello stato di fatto coincide pertanto con quella dello stato di progetto.

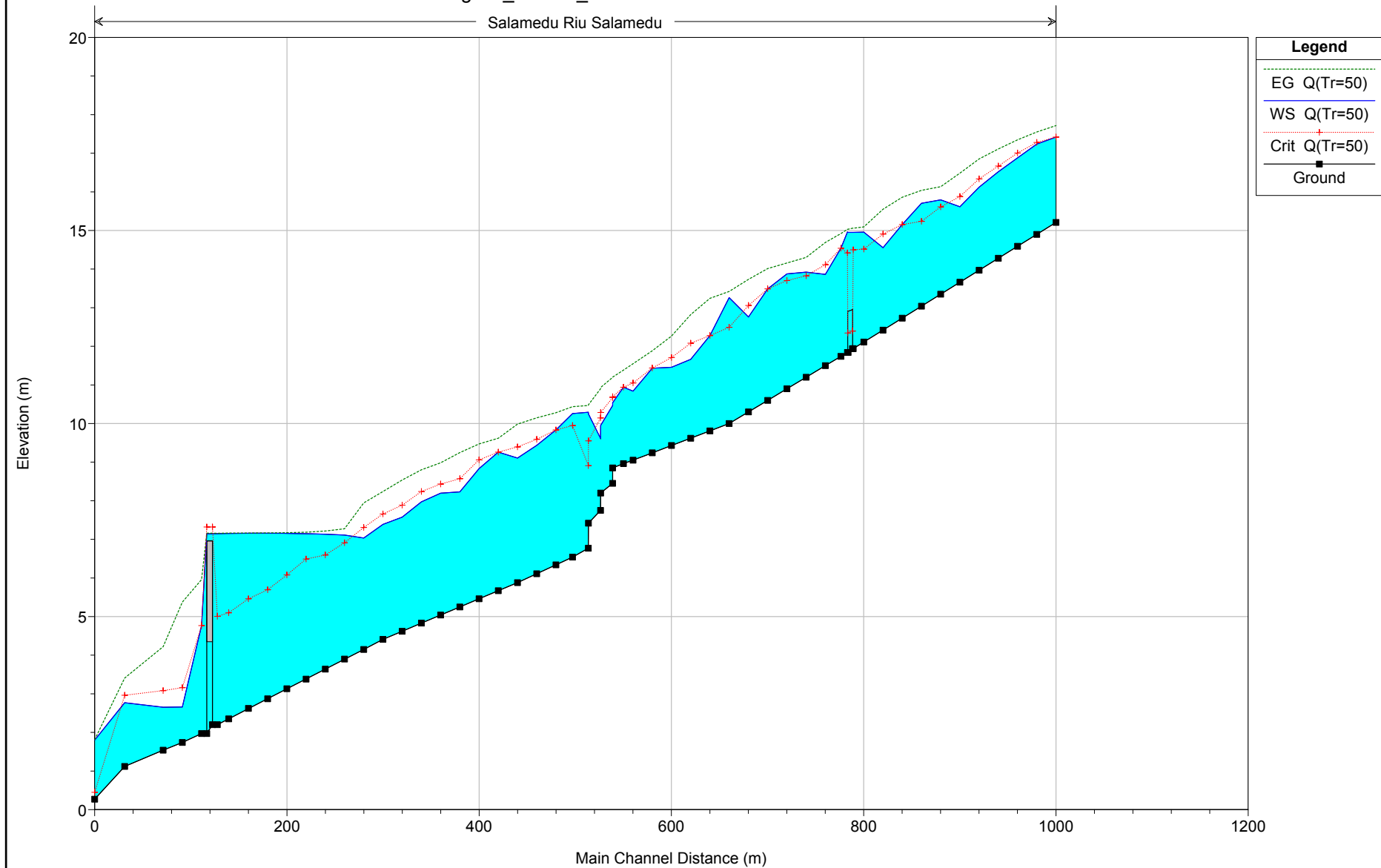


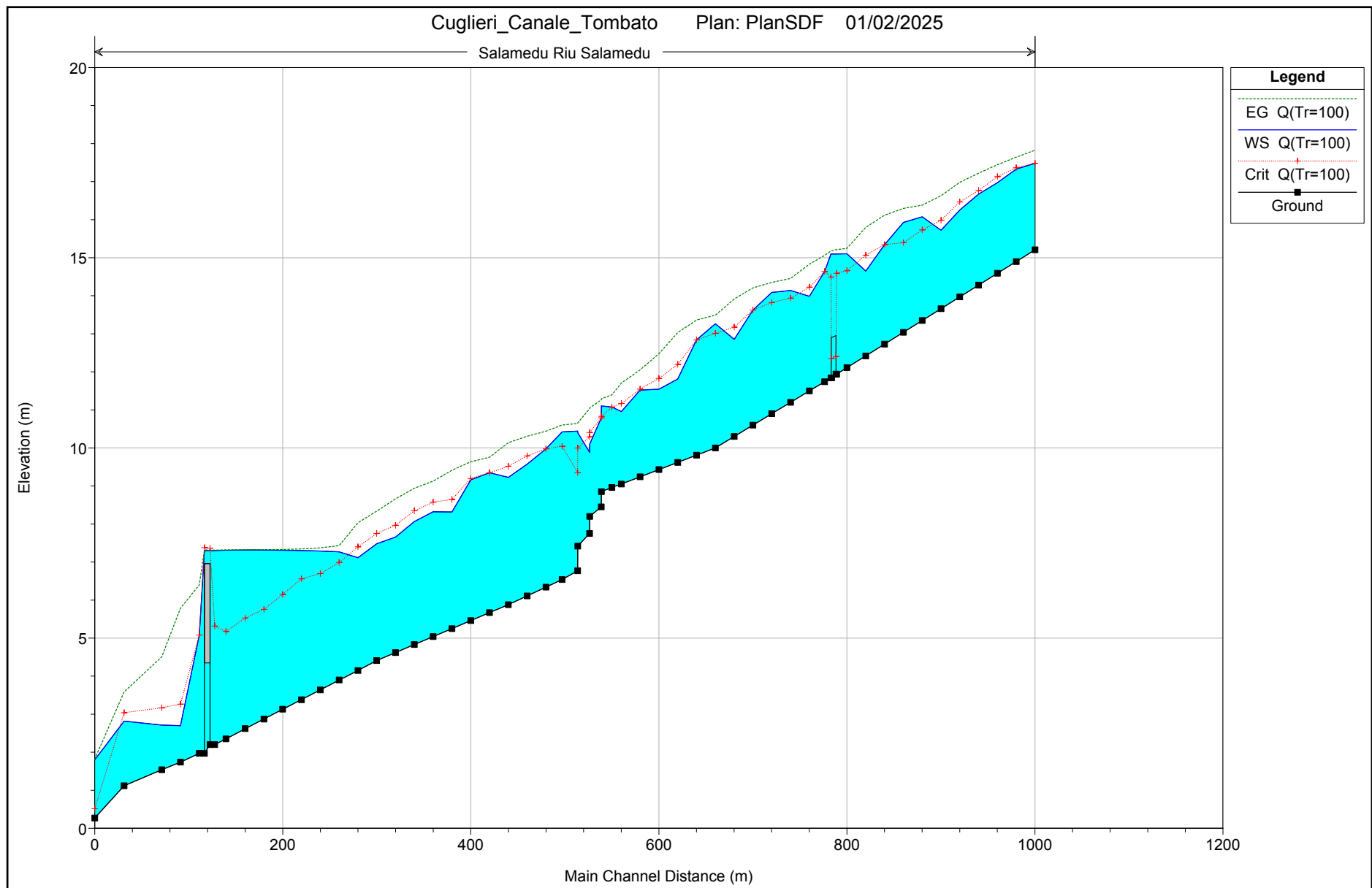


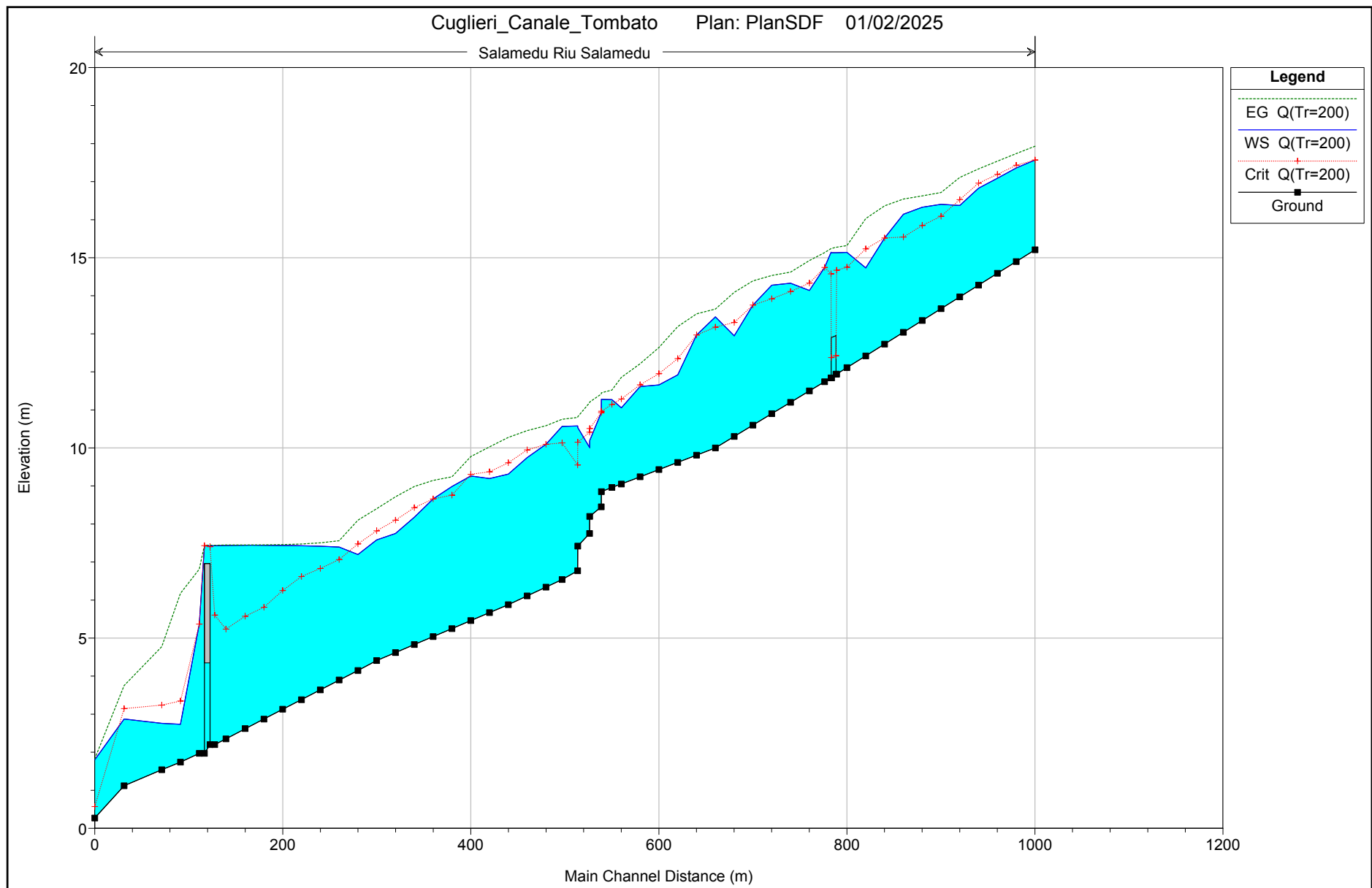


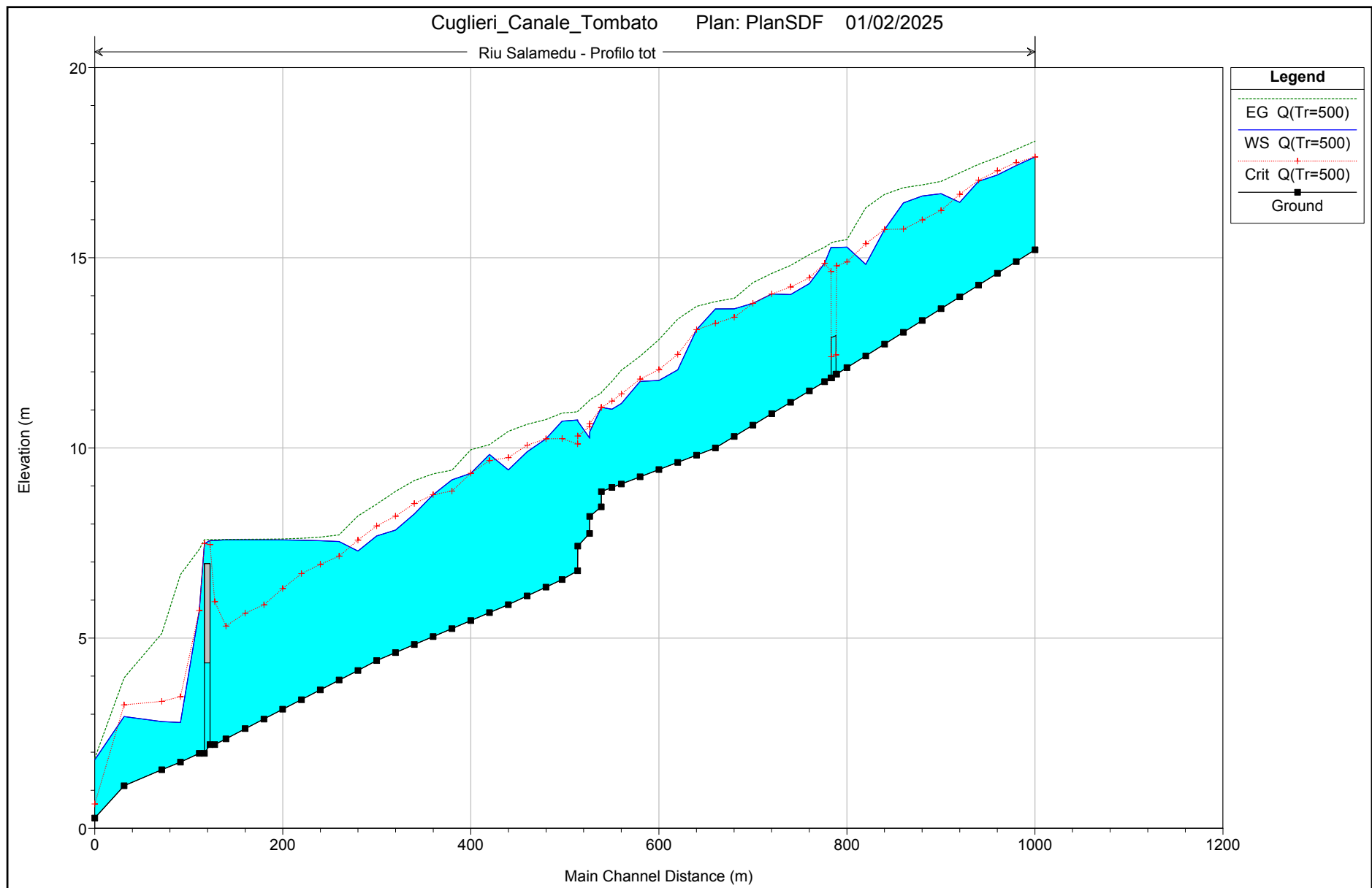








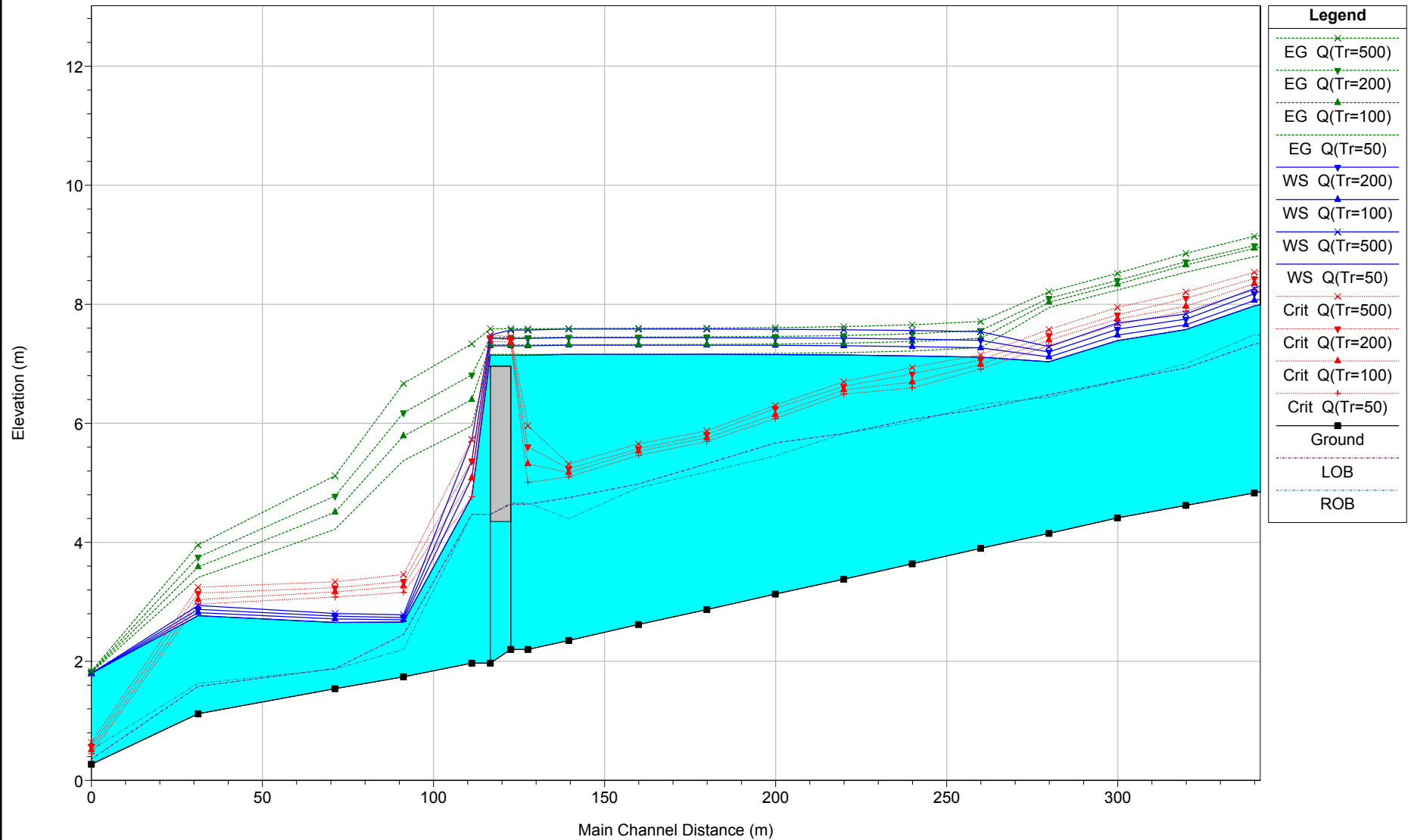


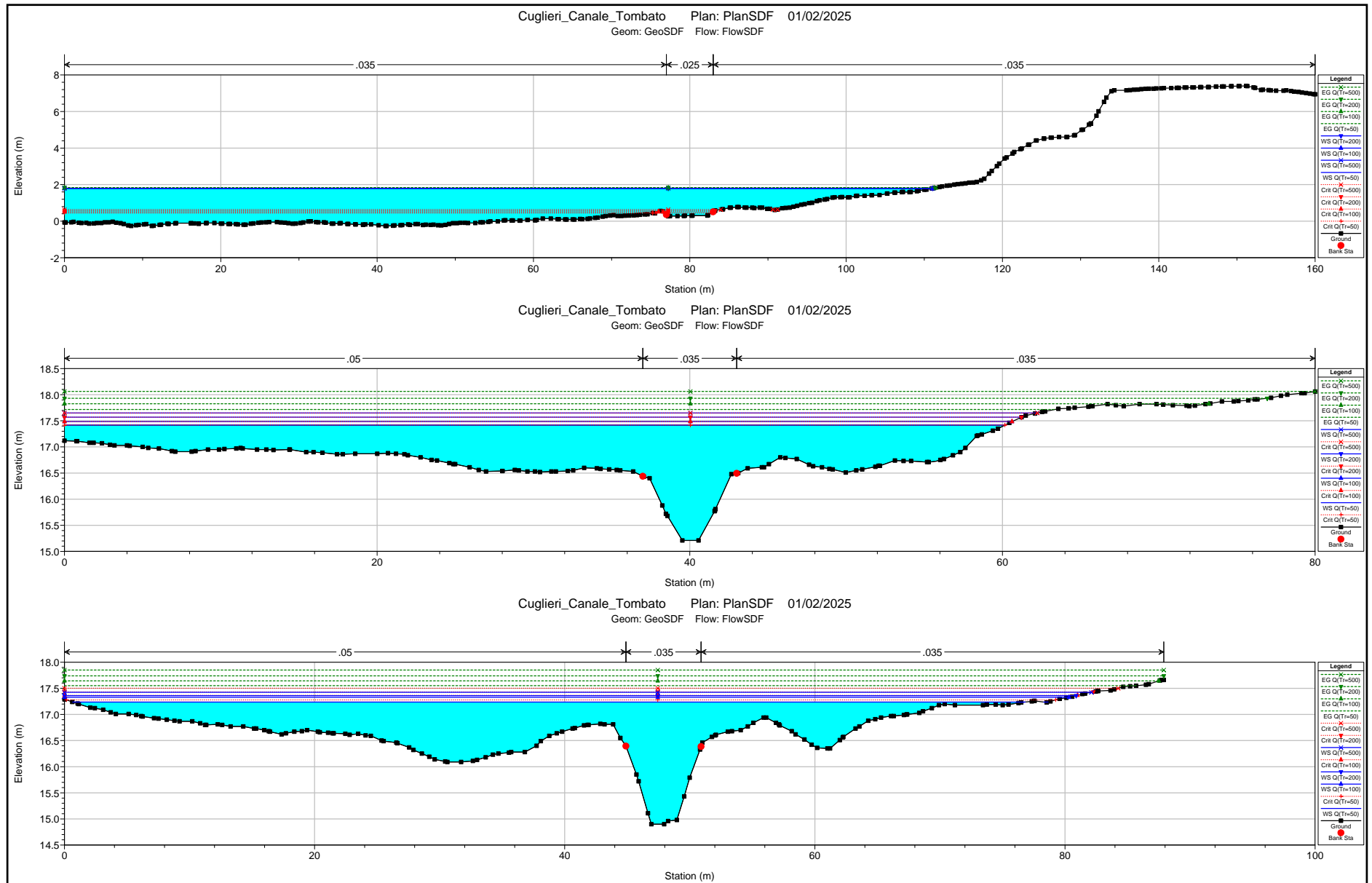


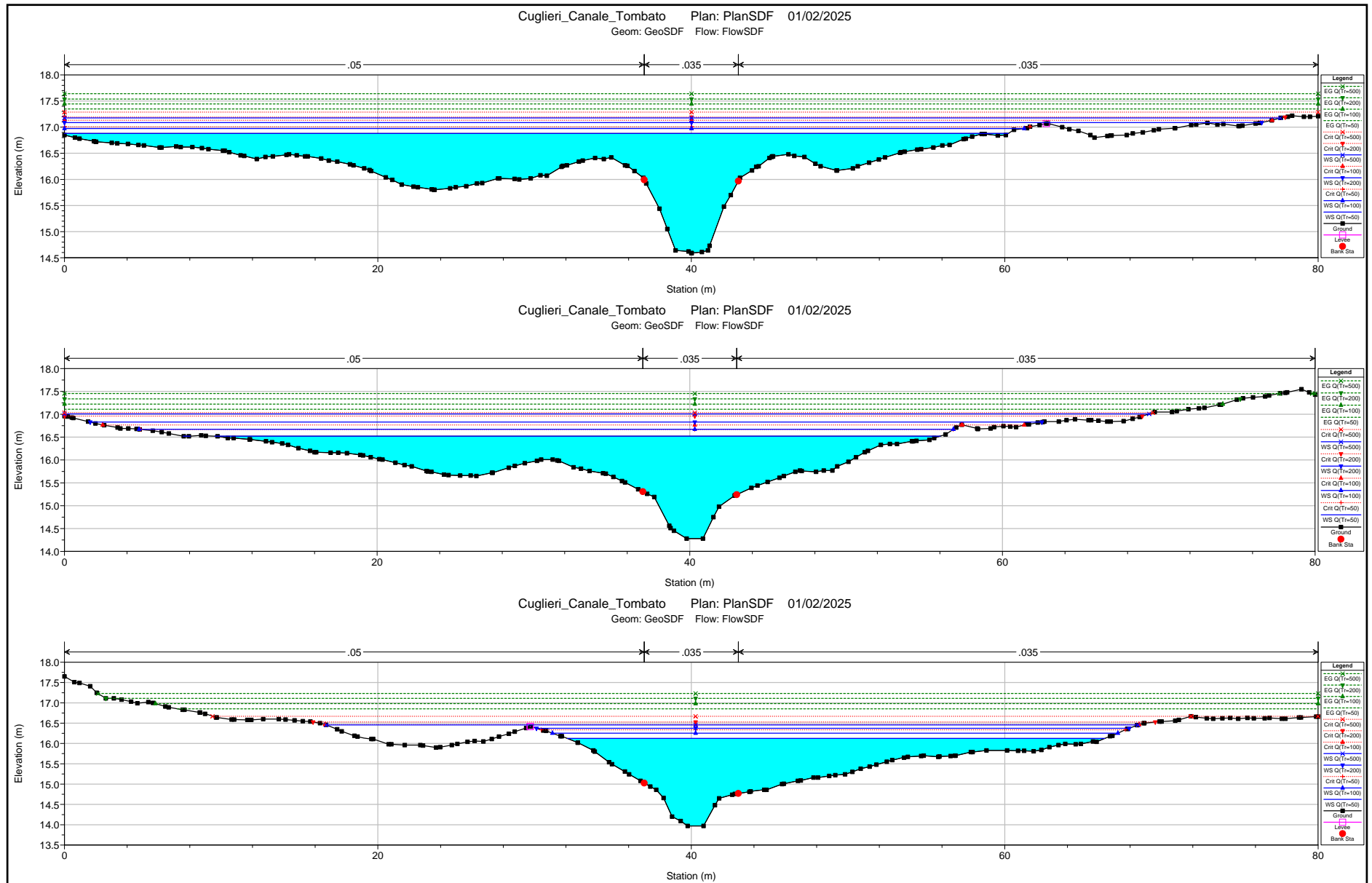


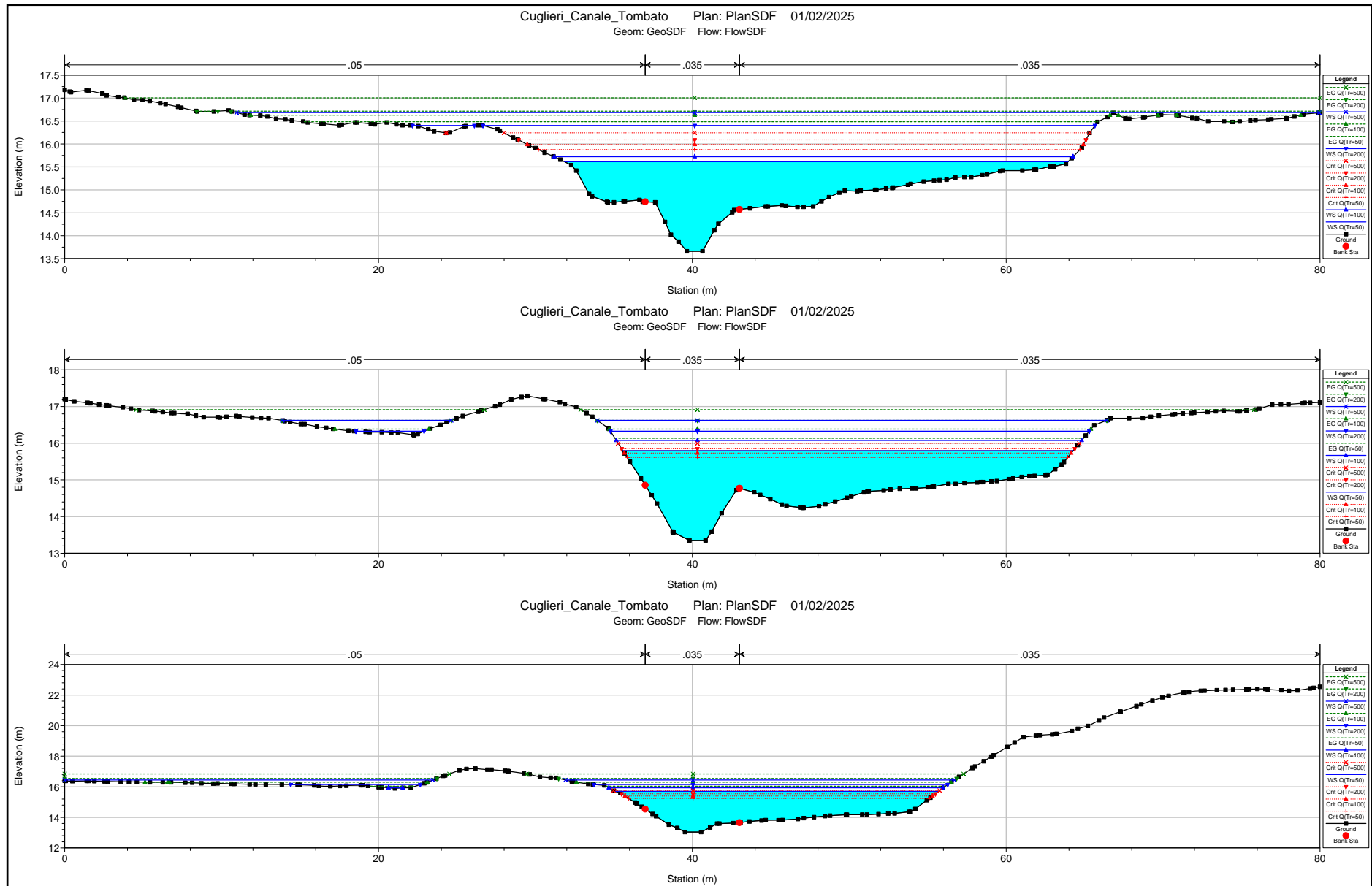
Cuglieri\_Canale\_Tombato Plan: PlanSDF 01/02/2025

Geom: GeoSDF Flow: FlowSDF - Profilo Ponte sulla S.S. 292

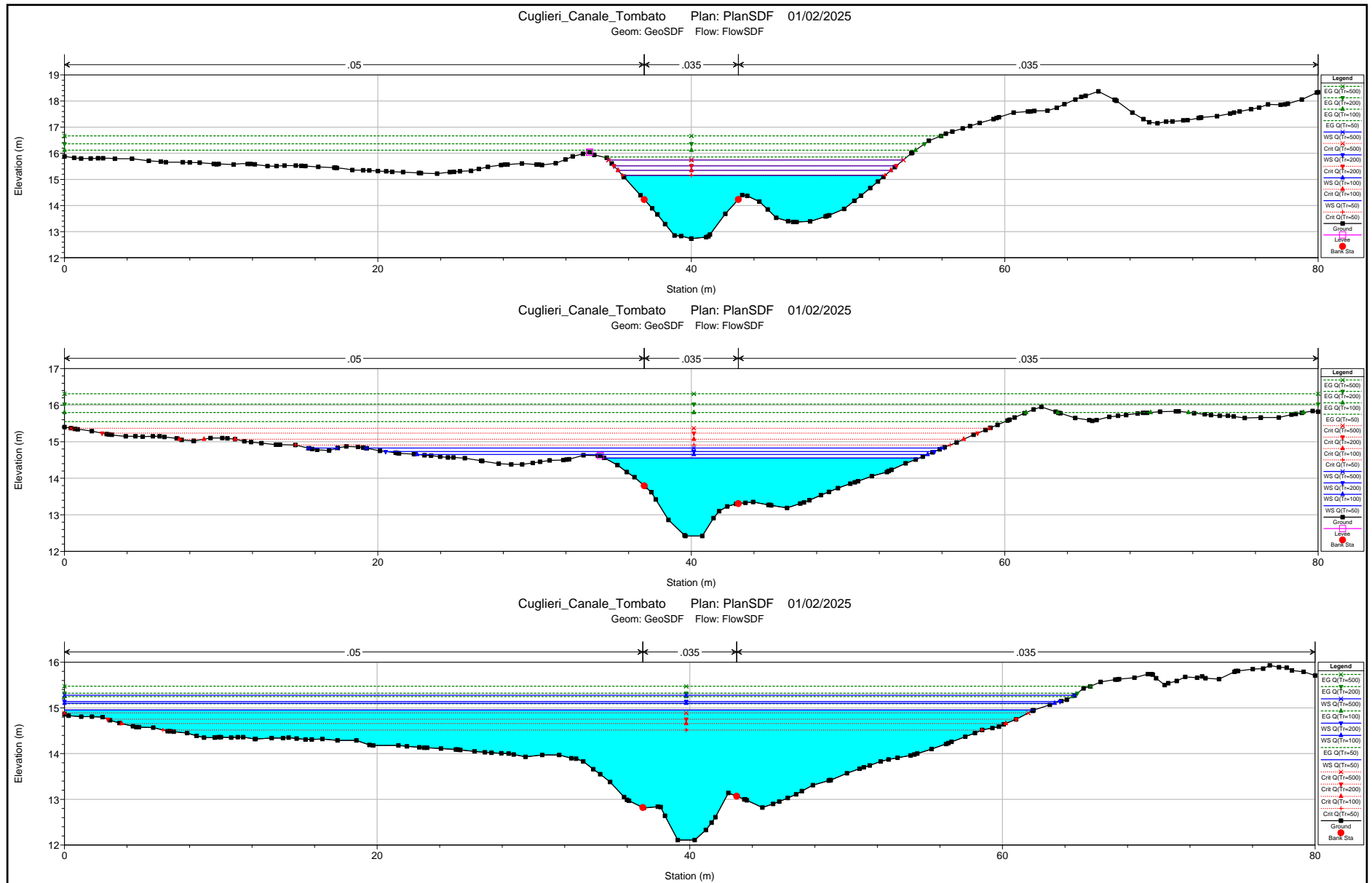


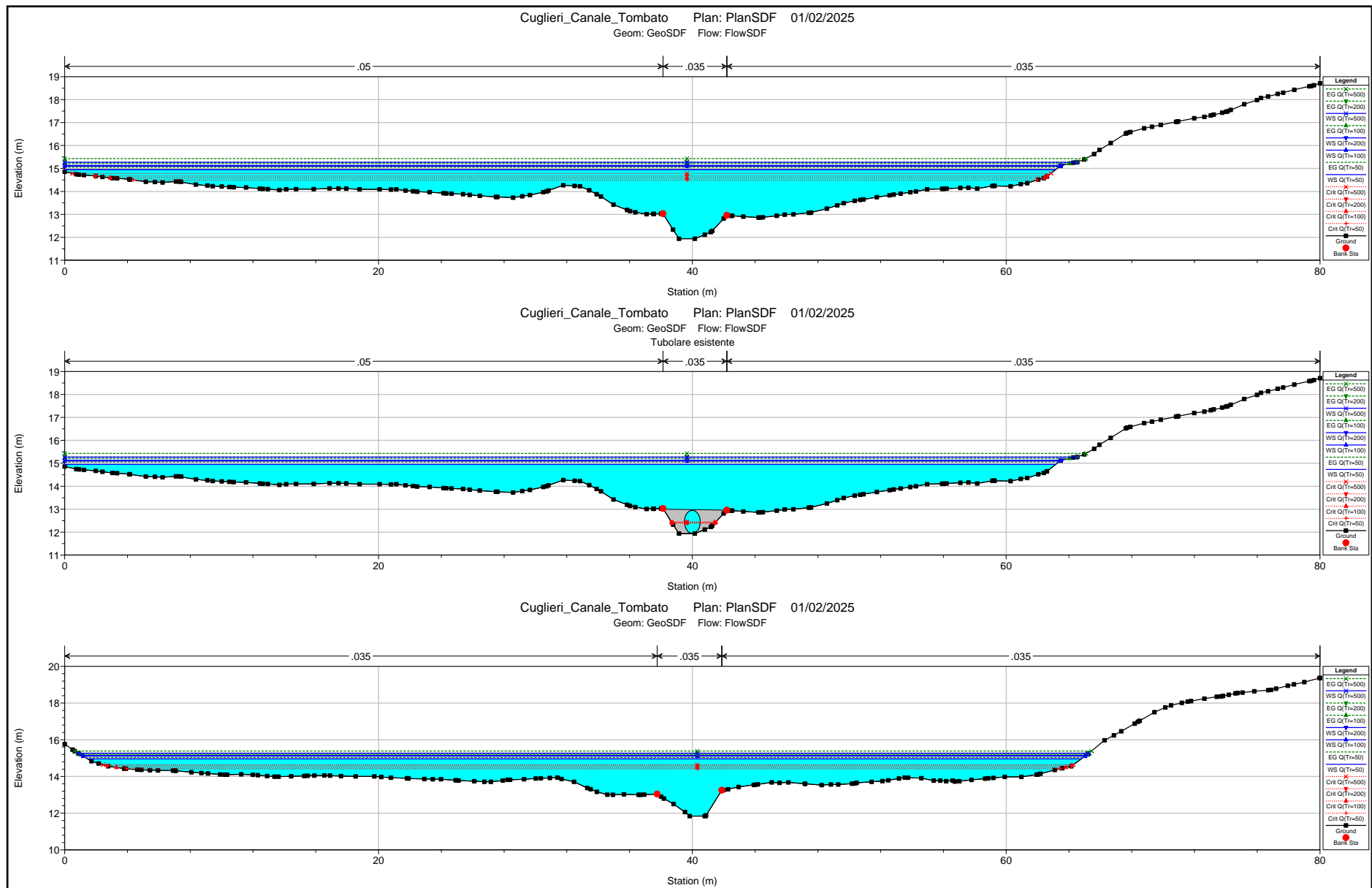


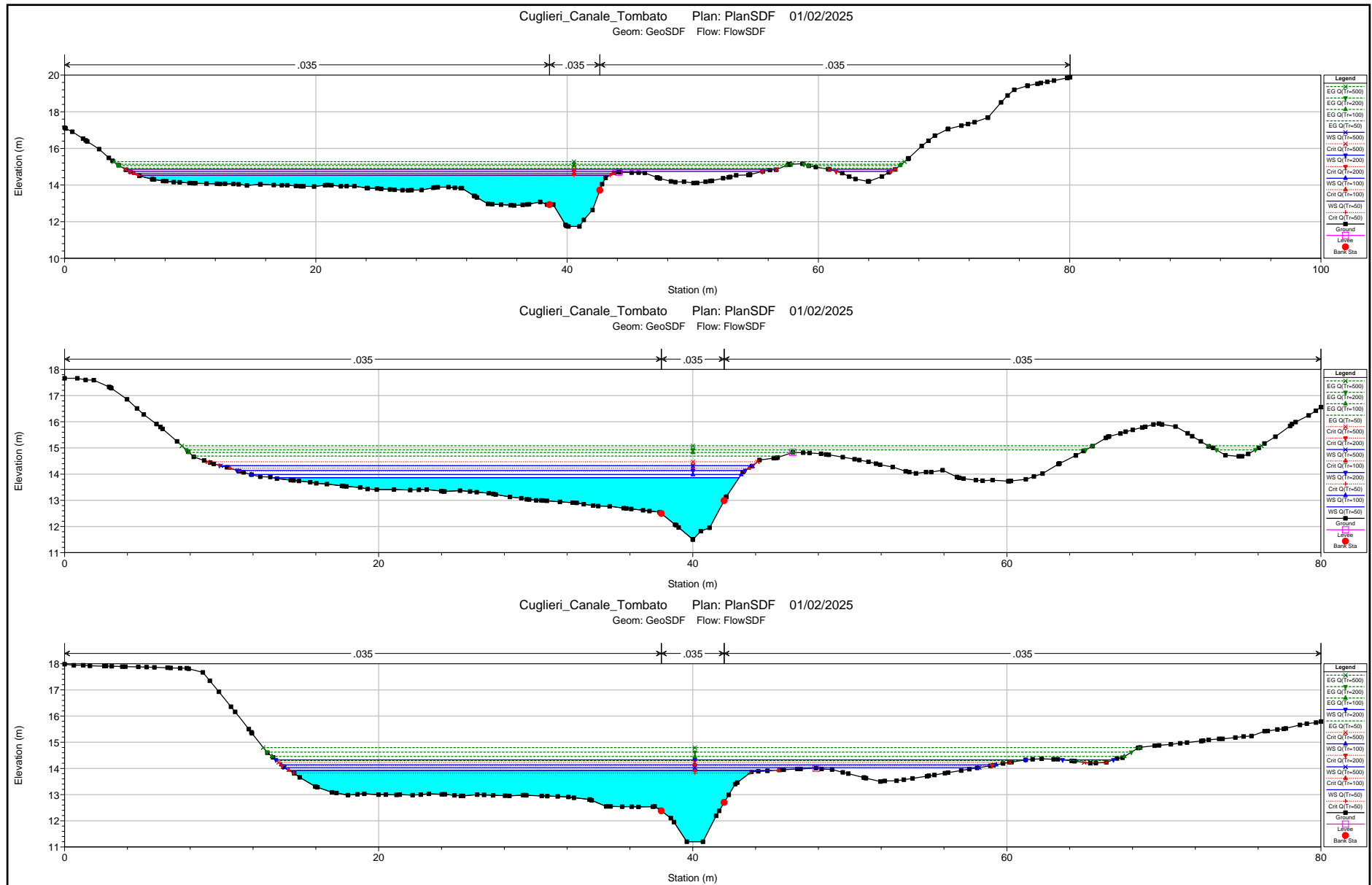


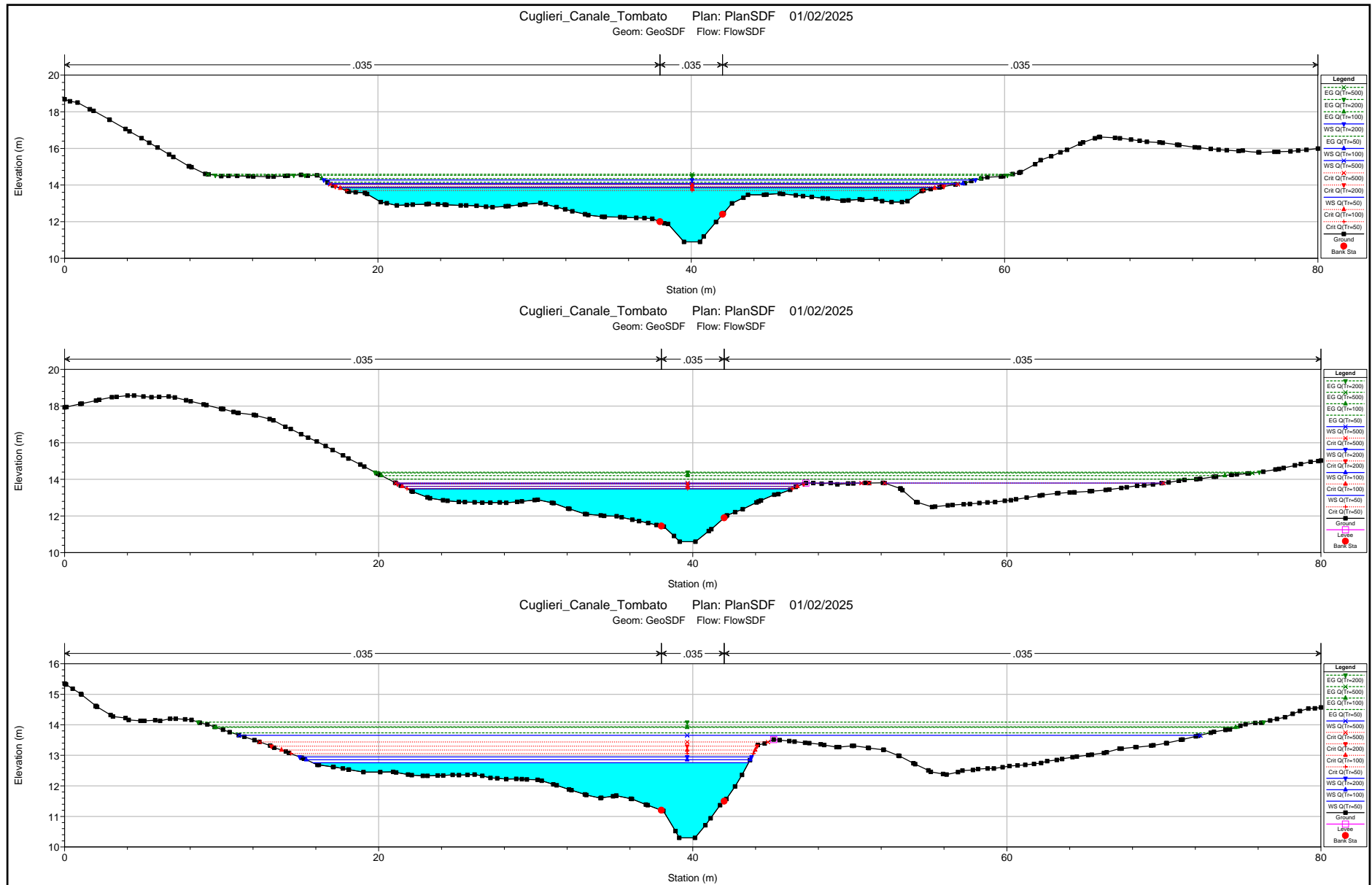




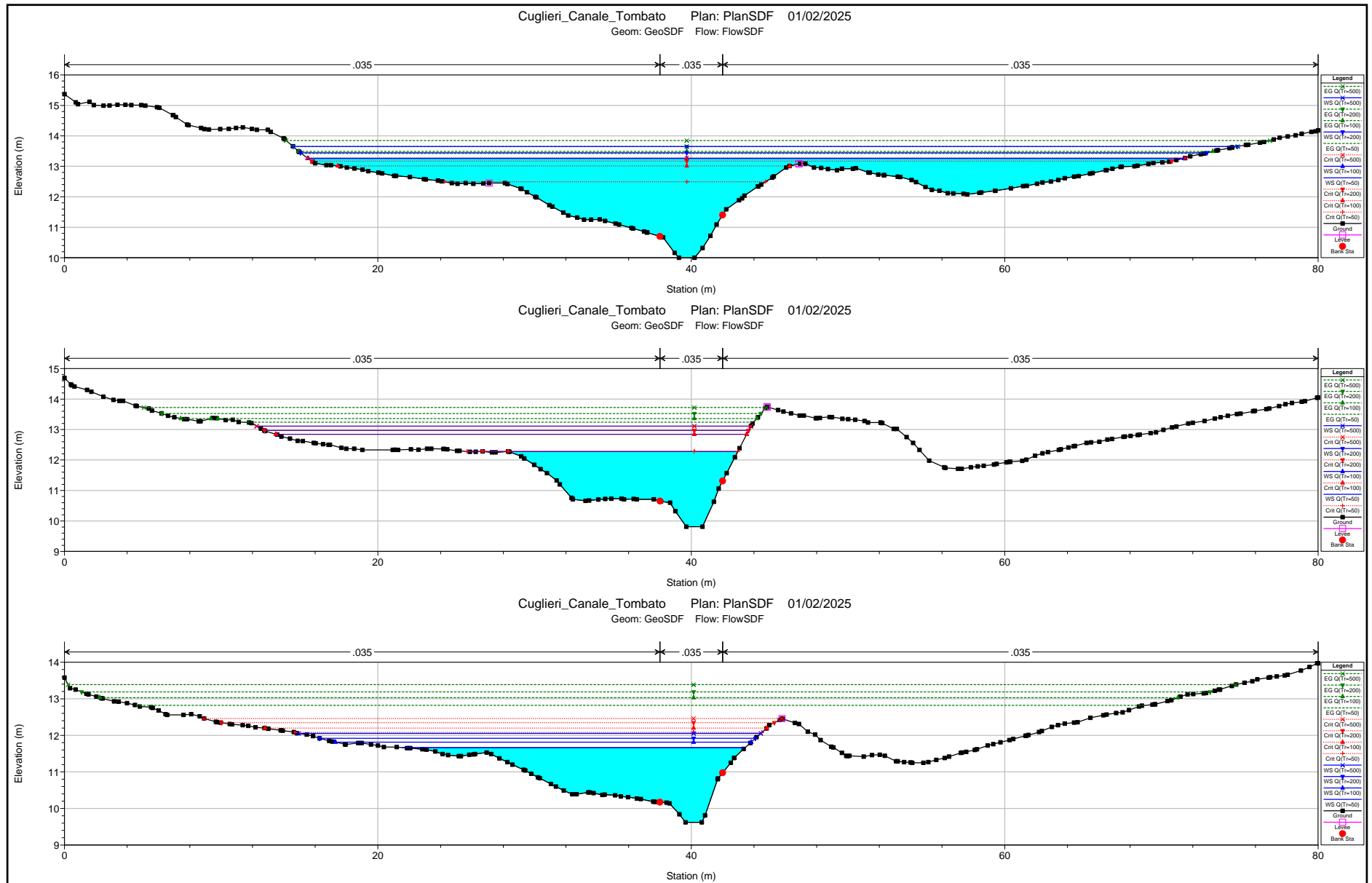


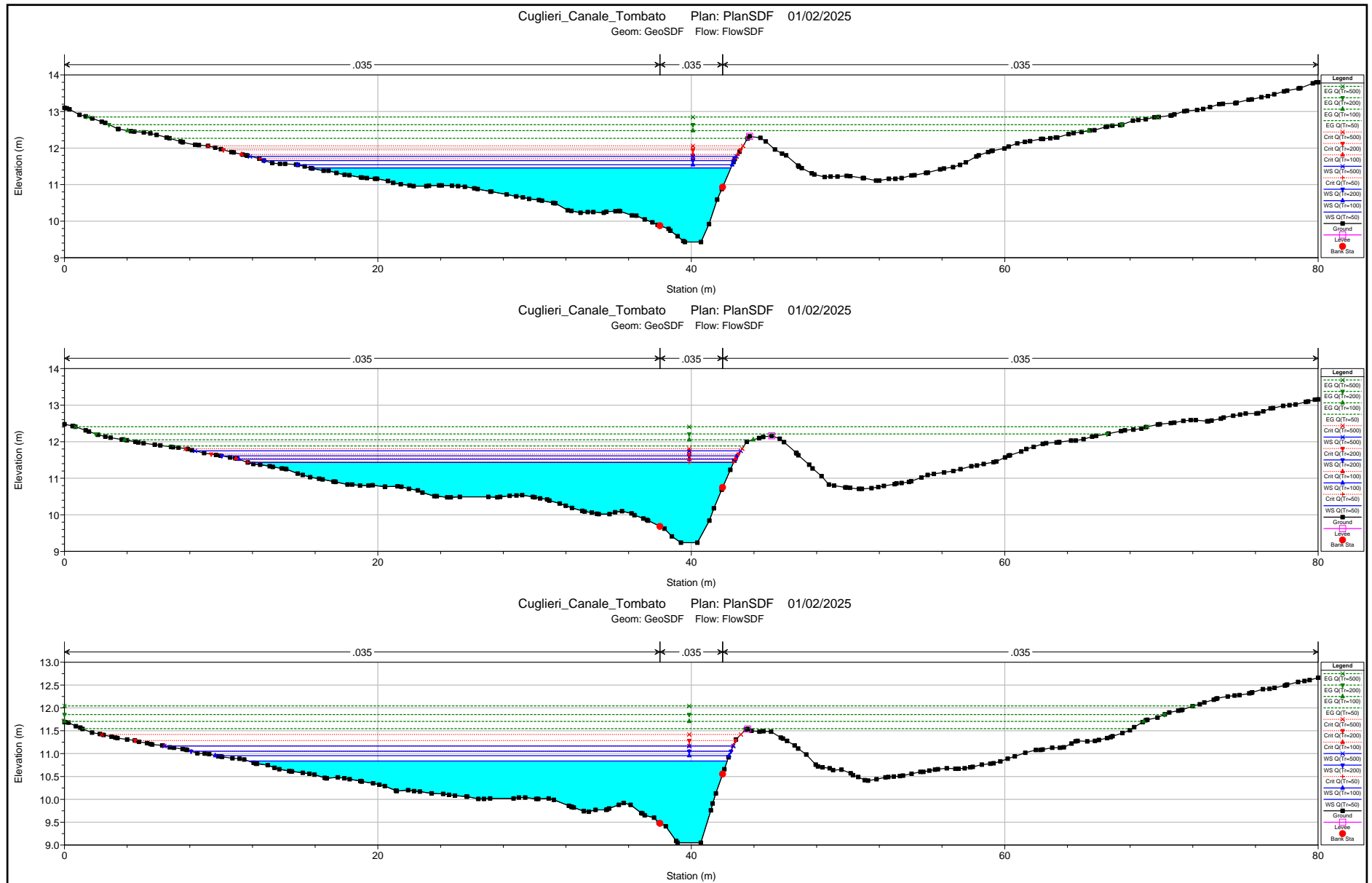




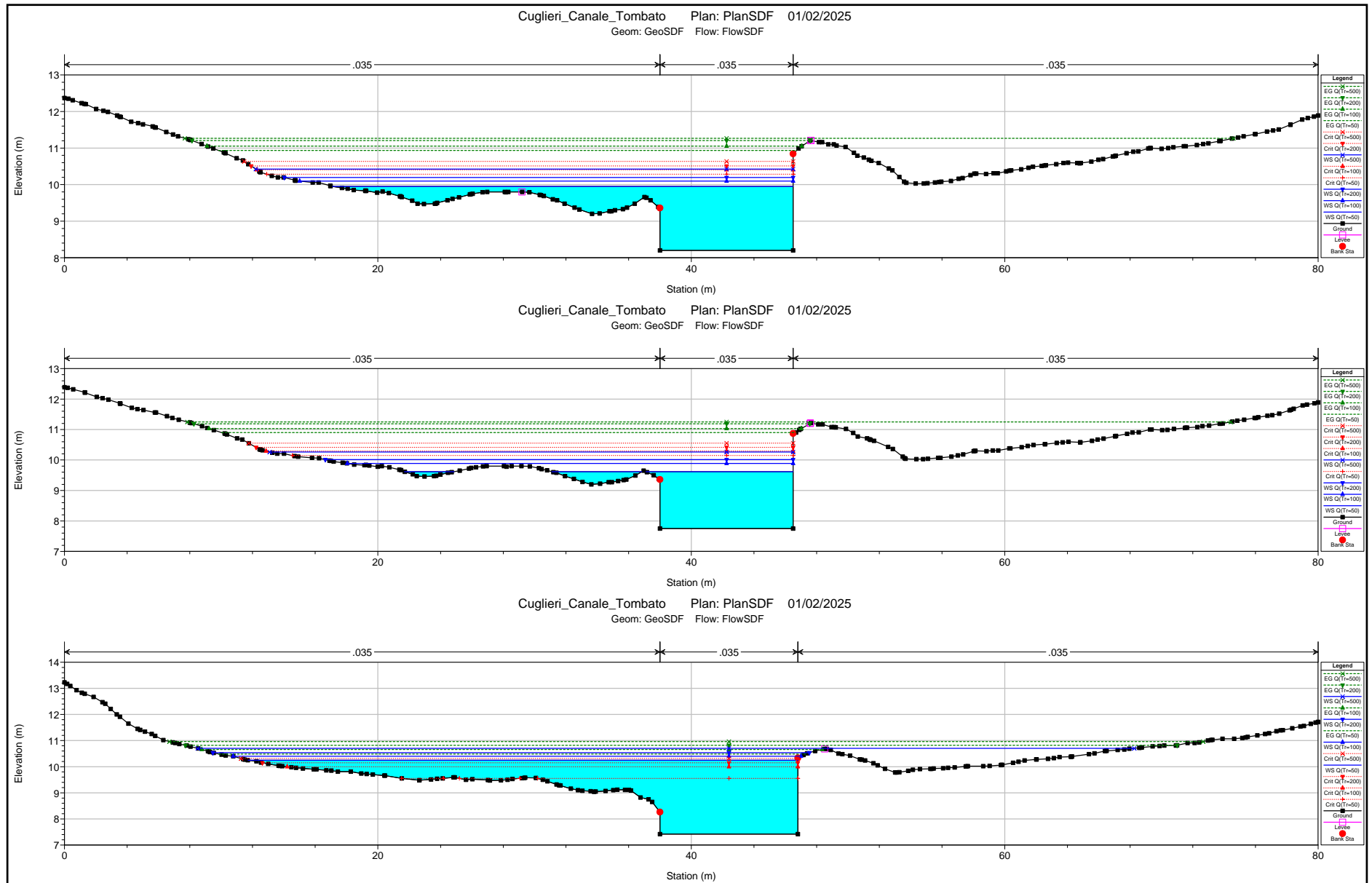




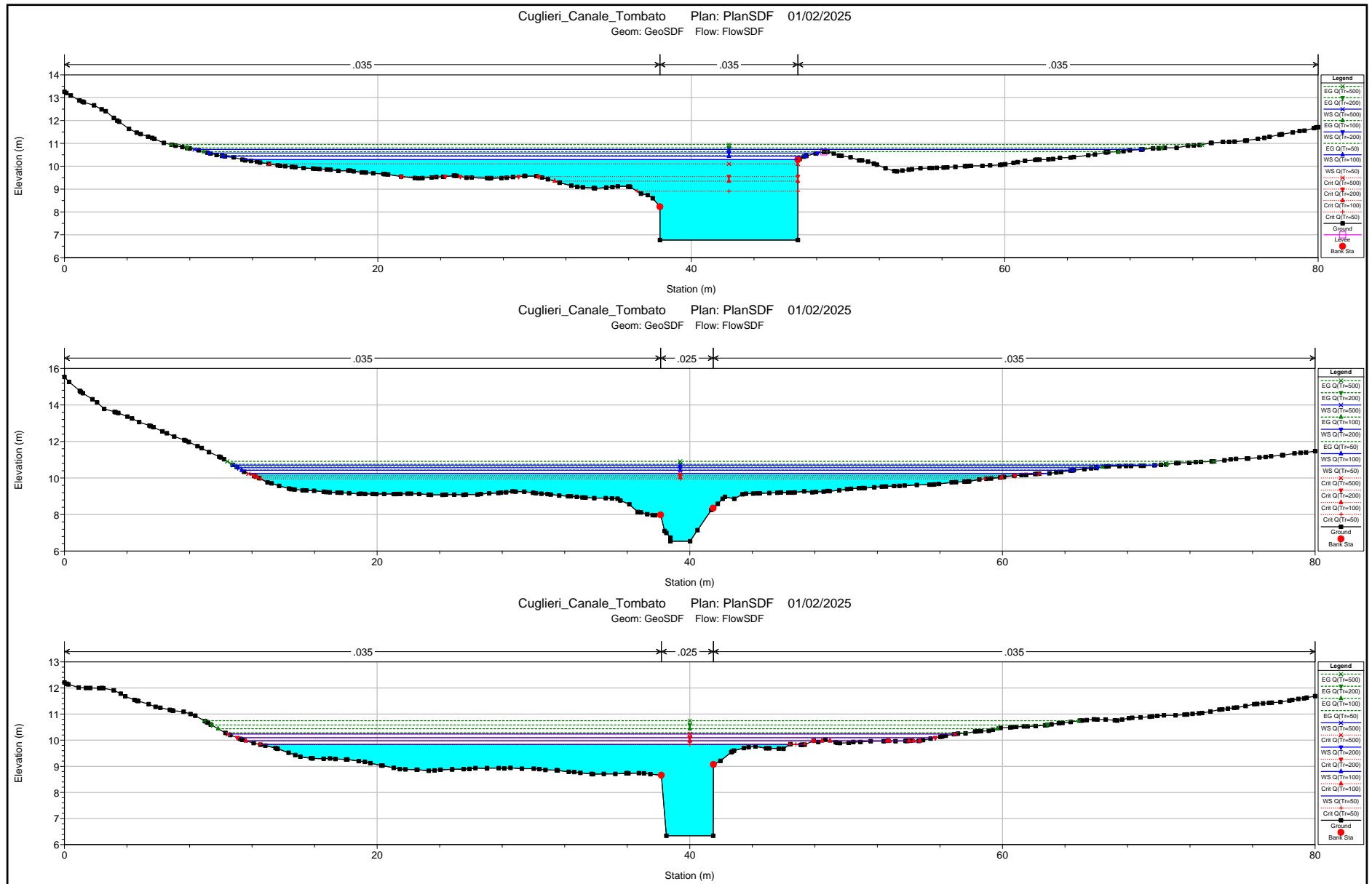


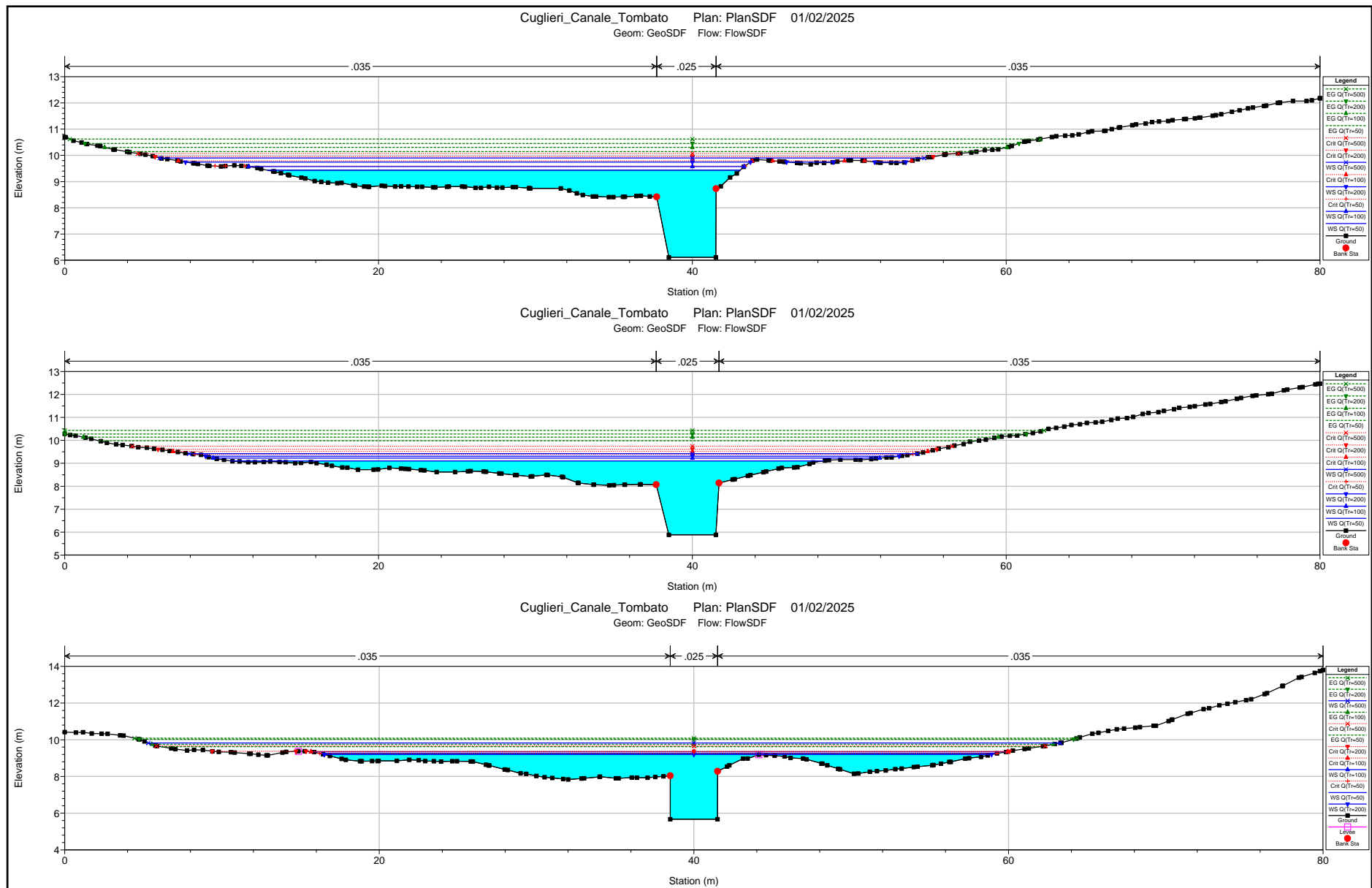


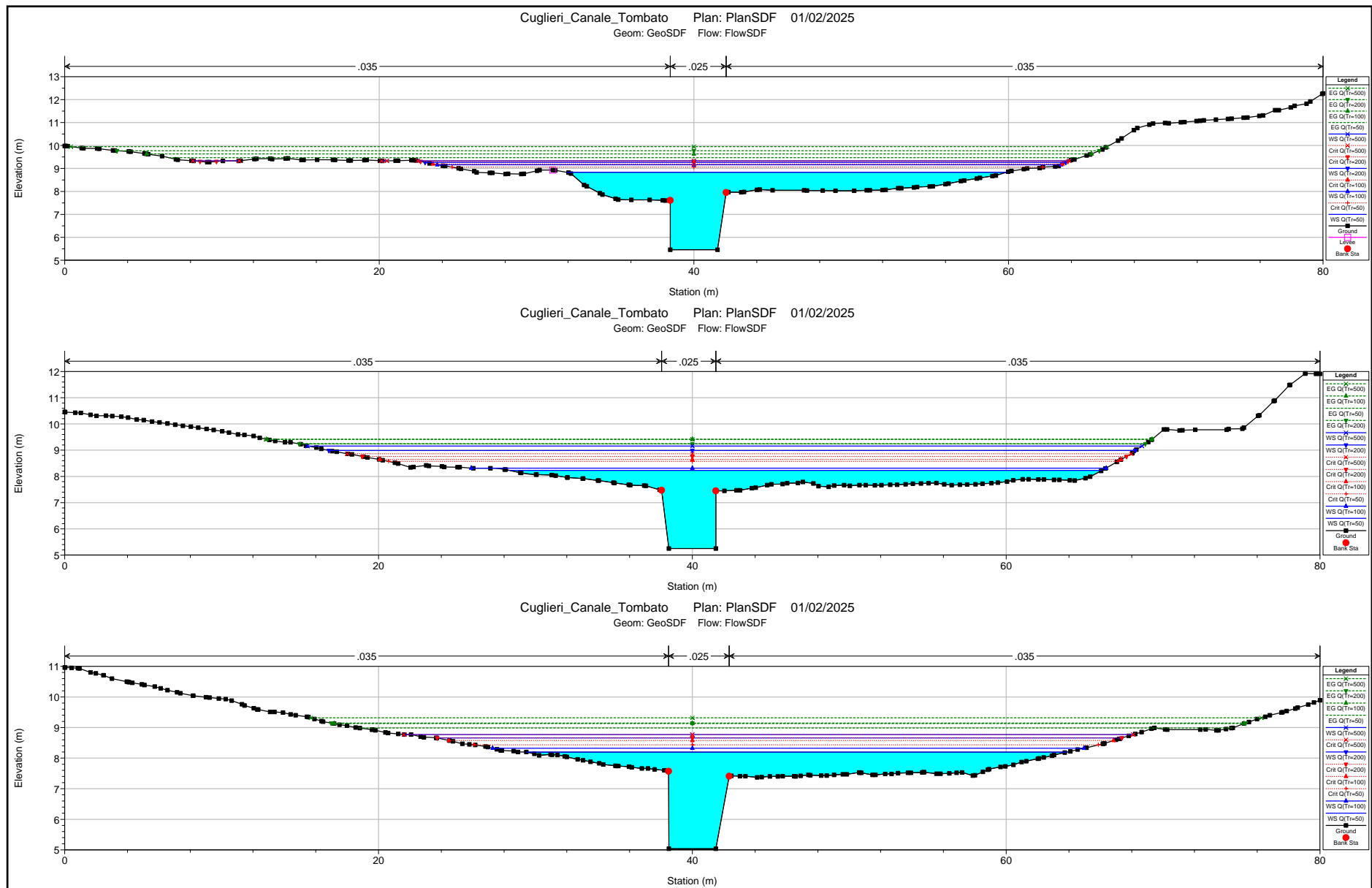


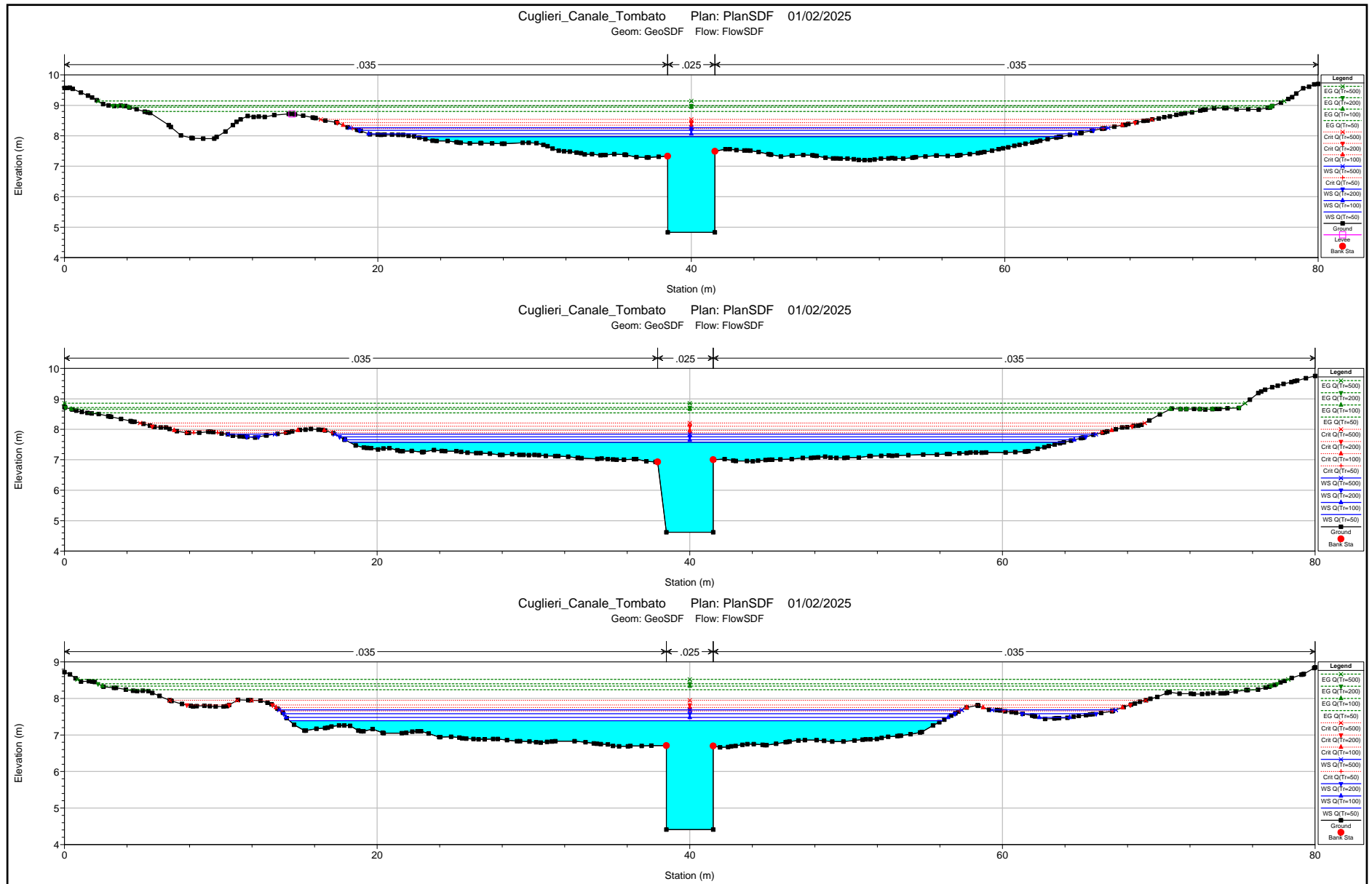


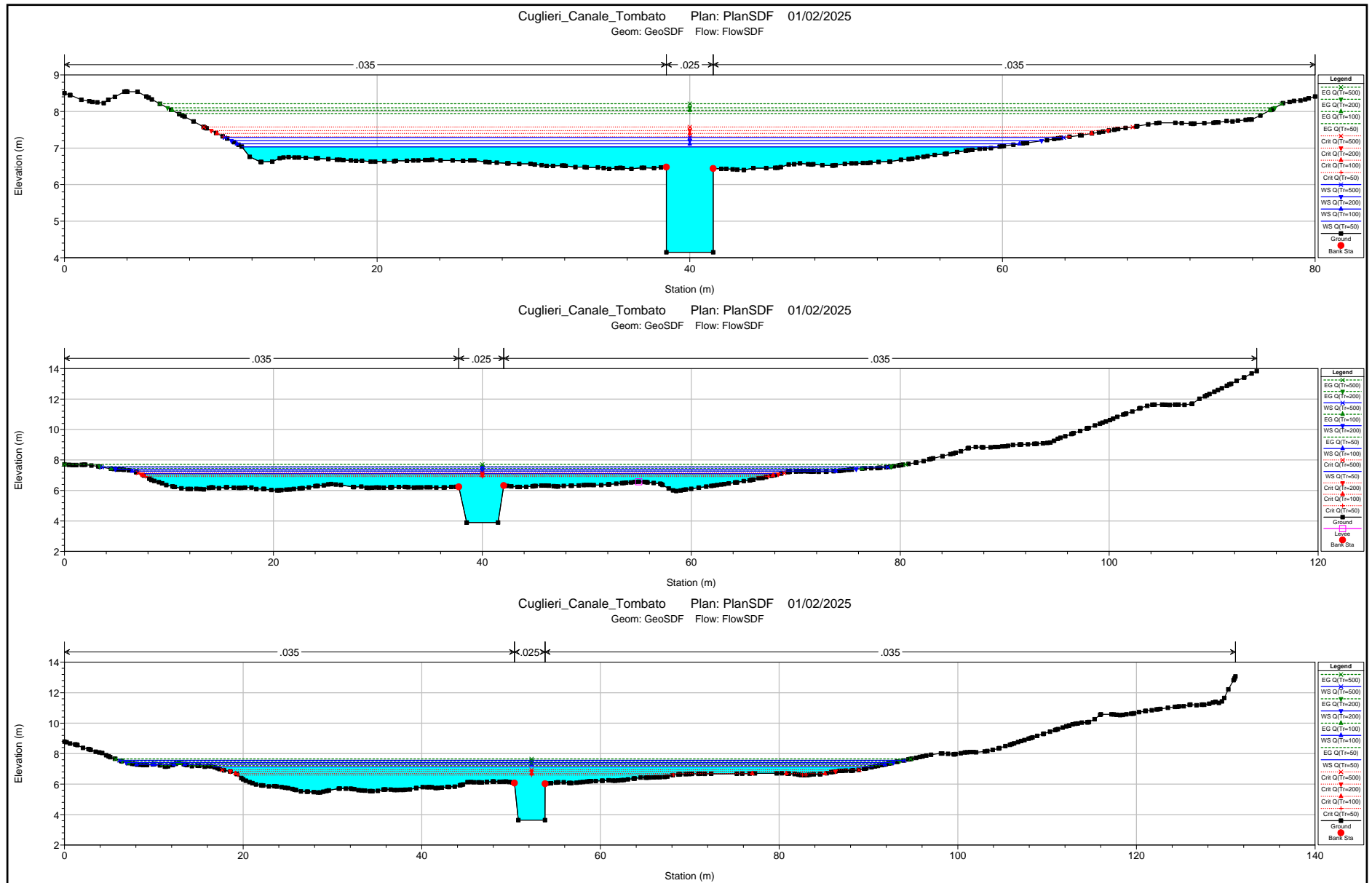


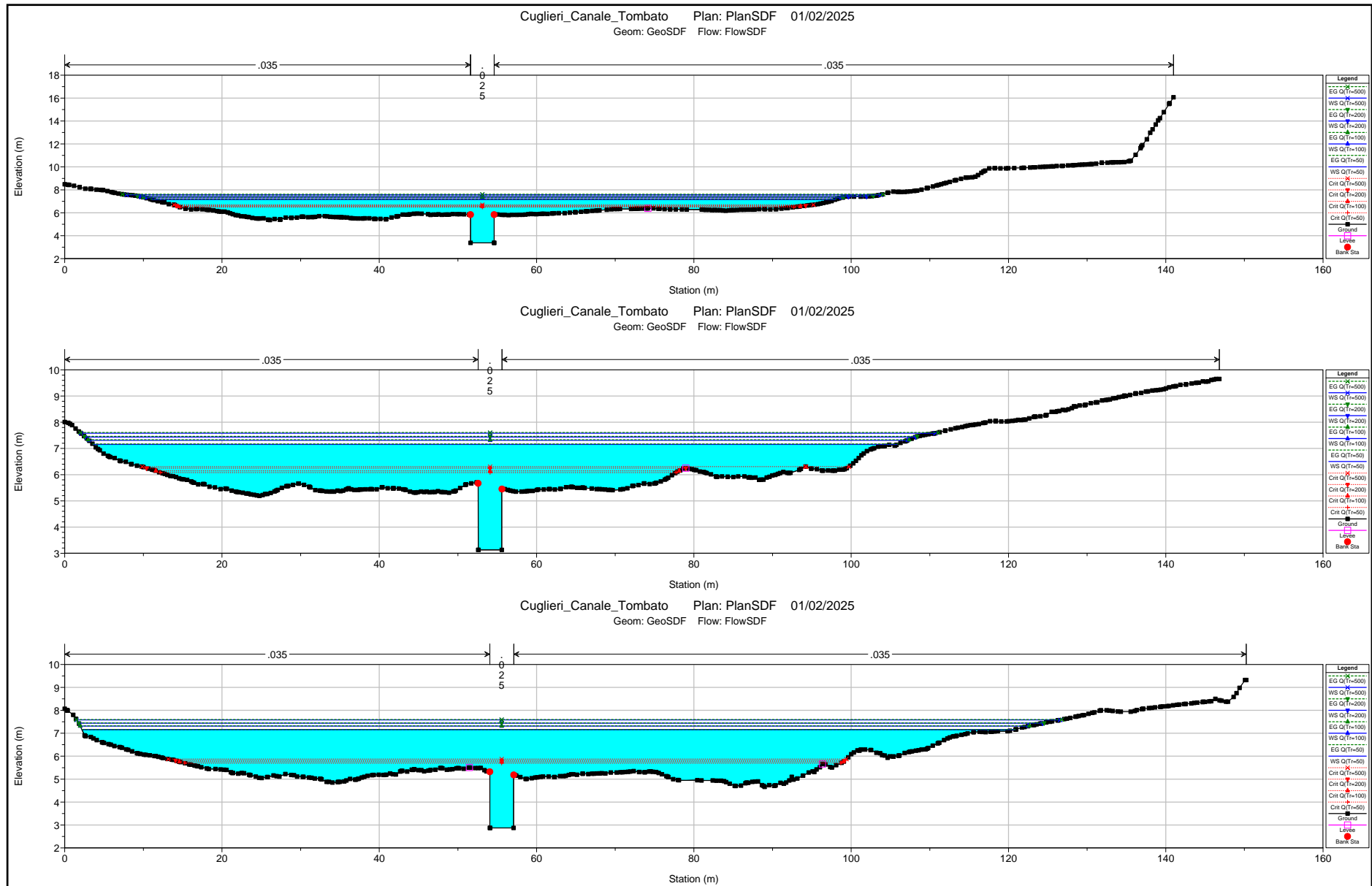


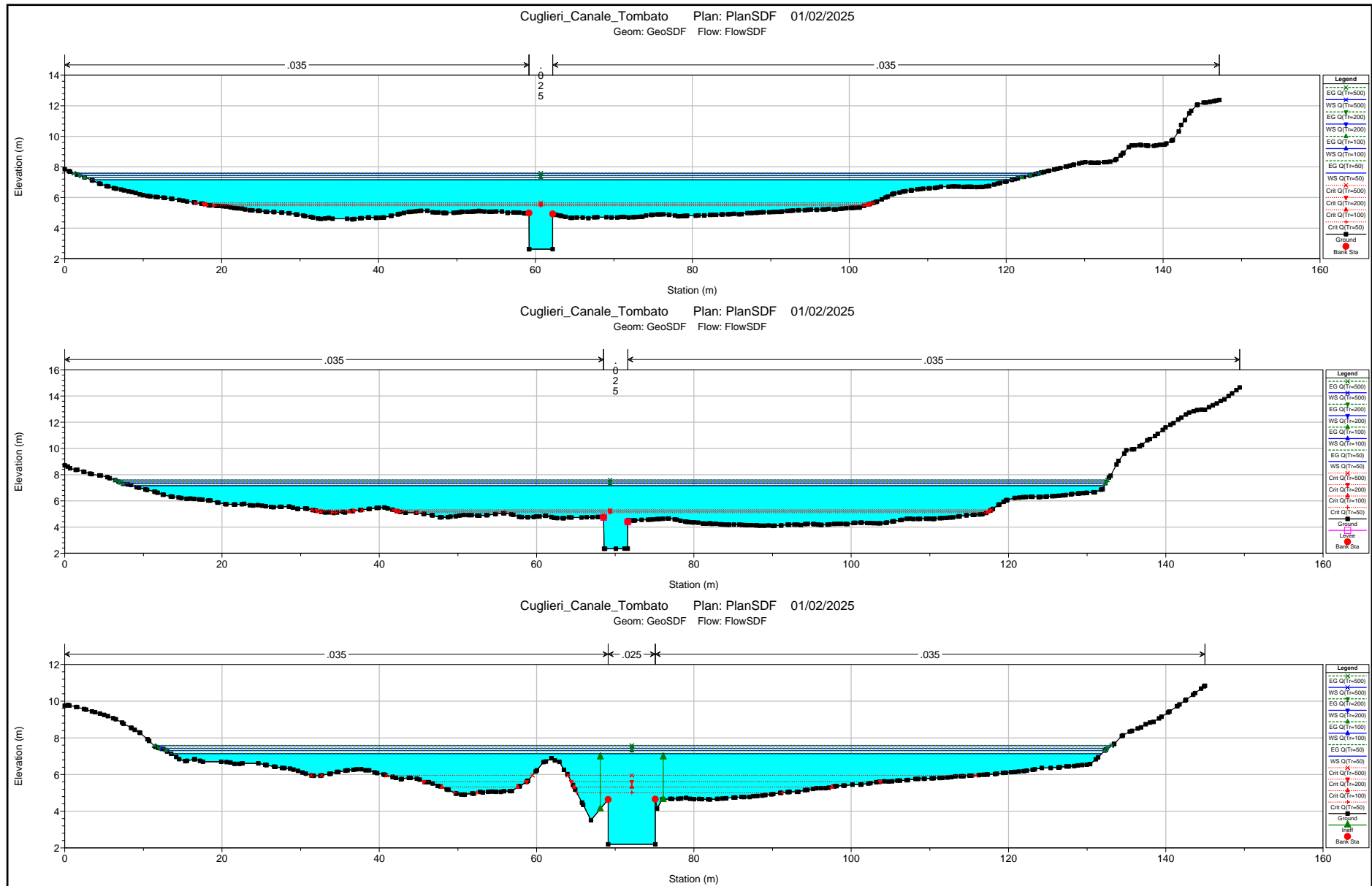




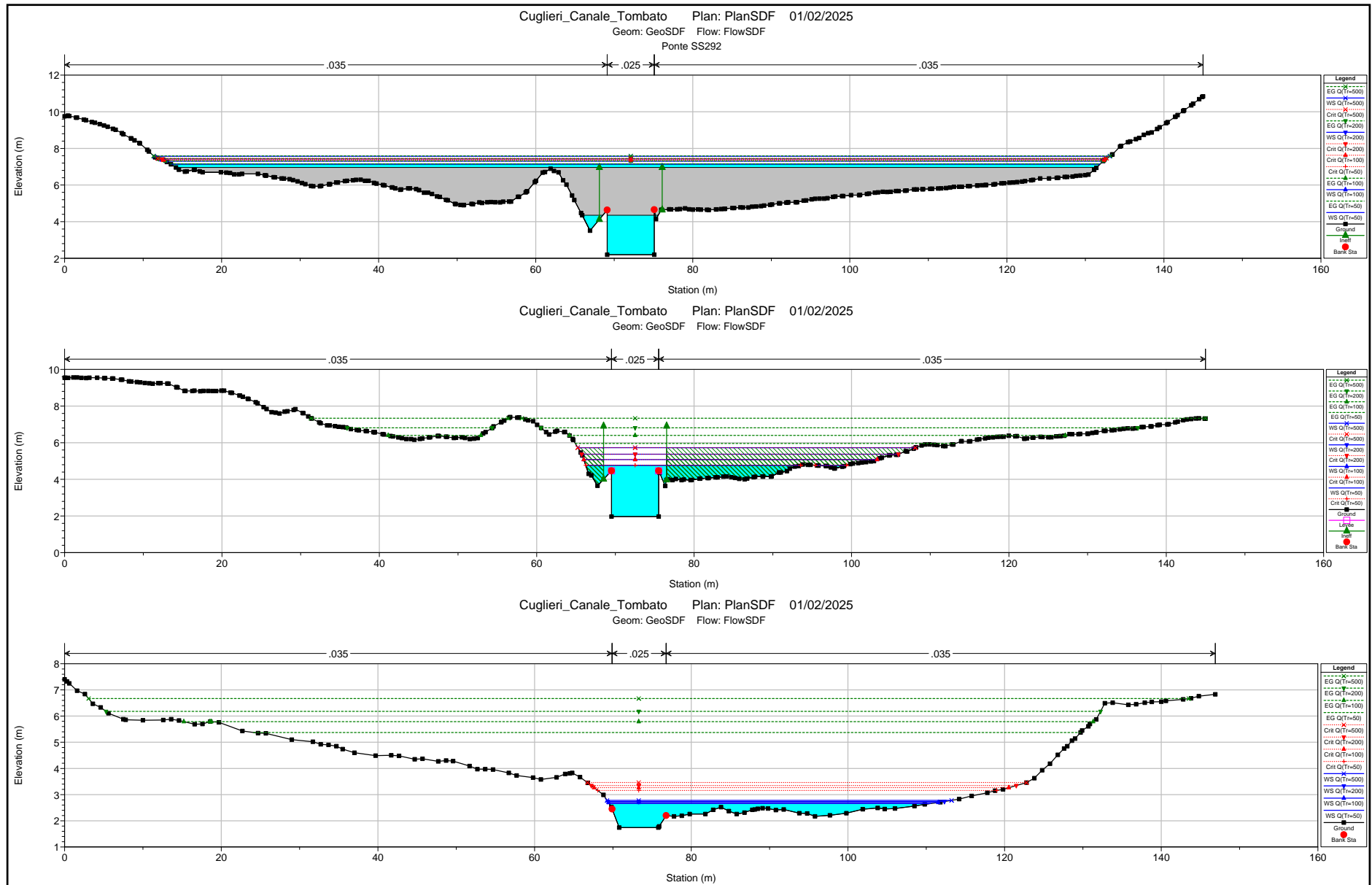


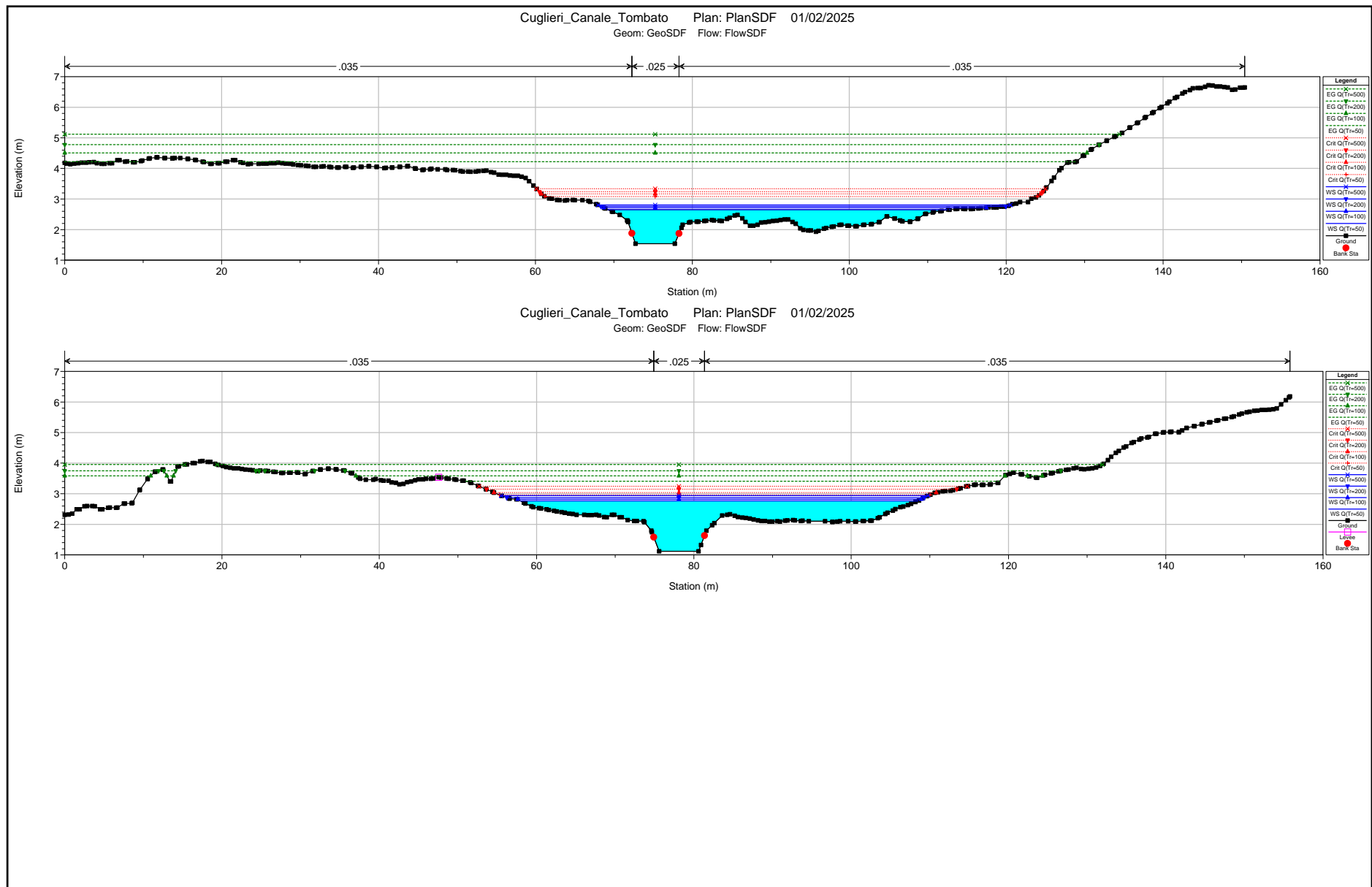












HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu Salamedu	1000	Q(TrC=)	22.00	15.21	16.91	16.91	17.12	0.006581	2.35	15.16	42.06	0.70
Riu Salamedu	1000	Q(Tr=50)	83.59	15.21	17.42	17.42	17.72	0.008057	3.32	43.74	60.16	0.83
Riu Salamedu	1000	Q(Tr=100)	99.60	15.21	17.48	17.48	17.83	0.008899	3.59	47.79	60.61	0.88
Riu Salamedu	1000	Q(Tr=200)	115.82	15.21	17.57	17.57	17.93	0.008946	3.72	53.00	61.22	0.89
Riu Salamedu	1000	Q(Tr=500)	137.46	15.21	17.65	17.65	18.06	0.009826	4.01	57.90	62.23	0.94
Riu Salamedu	980	Q(TrC=)	22.00	14.90	16.47	16.59	16.91	0.013804	3.11	9.23	20.68	0.98
Riu Salamedu	980	Q(Tr=50)	83.59	14.90	17.24	17.28	17.55	0.008017	3.43	47.03	76.53	0.82
Riu Salamedu	980	Q(Tr=100)	99.60	14.90	17.33	17.37	17.64	0.007944	3.53	54.24	80.32	0.82
Riu Salamedu	980	Q(Tr=200)	115.82	14.90	17.36	17.43	17.74	0.009506	3.90	56.73	80.90	0.90
Riu Salamedu	980	Q(Tr=500)	137.46	14.90	17.42	17.50	17.85	0.010515	4.20	61.93	82.11	0.95
Riu Salamedu	960	Q(TrC=)	22.00	14.59	16.15	16.30	16.63	0.014184	3.20	8.70	18.99	1.00
Riu Salamedu	960	Q(Tr=50)	83.59	14.59	16.88	17.01	17.35	0.010924	4.00	38.50	60.22	0.96
Riu Salamedu	960	Q(Tr=100)	99.60	14.59	16.97	17.13	17.44	0.010781	4.11	44.19	61.24	0.96
Riu Salamedu	960	Q(Tr=200)	115.82	14.59	17.09	17.19	17.54	0.010090	4.14	52.98	76.40	0.94
Riu Salamedu	960	Q(Tr=500)	137.46	14.59	17.18	17.29	17.64	0.010245	4.30	59.80	77.59	0.95
Riu Salamedu	940	Q(TrC=)	22.00	14.28	15.70	15.93	16.30	0.017733	3.54	7.12	14.95	1.15
Riu Salamedu	940	Q(Tr=50)	83.59	14.28	16.52	16.67	17.11	0.011527	4.29	33.30	46.87	1.02
Riu Salamedu	940	Q(Tr=100)	99.60	14.28	16.67	16.77	17.22	0.010276	4.28	40.78	52.09	0.98
Riu Salamedu	940	Q(Tr=200)	115.82	14.28	16.83	16.96	17.34	0.009186	4.26	49.78	60.88	0.94
Riu Salamedu	940	Q(Tr=500)	137.46	14.28	17.01	17.04	17.46	0.007800	4.15	61.88	69.38	0.88
Riu Salamedu	920	Q(TrC=)	22.00	13.97	15.28	15.48	15.91	0.023342	3.72	6.96	14.20	1.29
Riu Salamedu	920	Q(Tr=50)	83.59	13.97	16.12	16.34	16.85	0.014253	4.61	26.46	34.27	1.13
Riu Salamedu	920	Q(Tr=100)	99.60	13.97	16.25	16.47	16.98	0.013312	4.68	31.01	36.08	1.11
Riu Salamedu	920	Q(Tr=200)	115.82	13.97	16.37	16.53	17.11	0.012613	4.76	35.44	37.83	1.09
Riu Salamedu	920	Q(Tr=500)	137.46	13.97	16.46	16.67	17.23	0.013098	4.99	43.28	51.79	1.12
Riu Salamedu	900	Q(TrC=)	22.00	13.66	15.06	15.17	15.46	0.014999	3.11	9.21	19.79	1.04
Riu Salamedu	900	Q(Tr=50)	83.59	13.66	15.61	15.88	16.49	0.021227	5.08	23.60	32.09	1.34
Riu Salamedu	900	Q(Tr=100)	99.60	13.66	15.72	15.99	16.63	0.020421	5.23	27.13	33.06	1.33
Riu Salamedu	900	Q(Tr=200)	115.82	13.66	16.40	16.09	16.72	0.004343	3.07	51.96	42.95	0.65
Riu Salamedu	900	Q(Tr=500)	137.46	13.66	16.68	16.24	17.01	0.004575	3.40	67.92	69.00	0.68
Riu Salamedu	880	Q(TrC=)	22.00	13.35	14.89	14.91	15.19	0.011220	2.74	10.09	19.34	0.88
Riu Salamedu	880	Q(Tr=50)	83.59	13.35	15.79	15.61	16.14	0.005865	3.05	33.88	28.70	0.71
Riu Salamedu	880	Q(Tr=100)	99.60	13.35	16.08	15.73	16.38	0.004304	2.87	42.11	29.66	0.62
Riu Salamedu	880	Q(Tr=200)	115.82	13.35	16.33	15.85	16.62	0.003526	2.79	49.85	34.87	0.57
Riu Salamedu	880	Q(Tr=500)	137.46	13.35	16.62	16.00	16.91	0.002992	2.78	61.42	43.22	0.54
Riu Salamedu	860	Q(TrC=)	22.00	13.04	14.27	14.46	14.85	0.024208	3.69	7.30	15.62	1.30
Riu Salamedu	860	Q(Tr=50)	83.59	13.04	15.70	15.24	16.04	0.003950	2.85	33.63	20.59	0.62
Riu Salamedu	860	Q(Tr=100)	99.60	13.04	15.93	15.40	16.30	0.003798	2.99	38.40	22.21	0.61
Riu Salamedu	860	Q(Tr=200)	115.82	13.04	16.14	15.54	16.54	0.003668	3.11	43.95	30.79	0.61
Riu Salamedu	860	Q(Tr=500)	137.46	13.04	16.44	15.75	16.84	0.003282	3.16	56.12	48.24	0.59
Riu Salamedu	840	Q(TrC=)	22.00	12.73	14.16	14.16	14.52	0.013346	2.84	8.59	11.89	0.95
Riu Salamedu	840	Q(Tr=50)	83.59	12.73	15.15	15.15	15.86	0.010754	4.10	23.27	16.75	0.96
Riu Salamedu	840	Q(Tr=100)	99.60	12.73	15.34	15.34	16.12	0.010416	4.30	26.53	17.42	0.96
Riu Salamedu	840	Q(Tr=200)	115.82	12.73	15.52	15.52	16.36	0.010208	4.50	29.66	18.03	0.96
Riu Salamedu	840	Q(Tr=500)	137.46	12.73	15.74	15.74	16.67	0.009897	4.72	33.78	18.81	0.96
Riu Salamedu	820	Q(TrC=)	22.00	12.42	13.96	13.88	14.23	0.008457	2.52	10.14	14.34	0.79
Riu Salamedu	820	Q(Tr=50)	83.59	12.42	14.55	14.91	15.55	0.018419	5.03	20.35	20.09	1.26
Riu Salamedu	820	Q(Tr=100)	99.60	12.42	14.65	15.07	15.80	0.019953	5.45	23.99	32.58	1.33
Riu Salamedu	820	Q(Tr=200)	115.82	12.42	14.73	15.23	16.03	0.021622	5.85	26.74	35.03	1.39
Riu Salamedu	820	Q(Tr=500)	137.46	12.42	14.83	15.37	16.31	0.023744	6.34	30.16	38.66	1.47
Riu Salamedu	800	Q(TrC=)	22.00	12.11	14.00	13.53	14.10	0.002226	1.64	18.42	26.02	0.44
Riu Salamedu	800	Q(Tr=50)	83.59	12.11	14.96	14.52	15.09	0.002039	2.20	64.54	62.03	0.45
Riu Salamedu	800	Q(Tr=100)	99.60	12.11	15.10	14.66	15.25	0.002039	2.29	73.81	63.34	0.46
Riu Salamedu	800	Q(Tr=200)	115.82	12.11	15.14	14.75	15.32	0.002538	2.58	76.15	63.68	0.51
Riu Salamedu	800	Q(Tr=500)	137.46	12.11	15.28	14.89	15.48	0.002640	2.72	85.01	64.63	0.53
Riu Salamedu	789	Q(TrC=)	22.00	11.94	13.98	13.52	14.07	0.002121	1.68	18.92	27.86	0.41
Riu Salamedu	789	Q(Tr=50)	83.59	11.94	14.95	14.50	15.06	0.001738	2.05	70.66	63.16	0.40
Riu Salamedu	789	Q(Tr=100)	99.60	11.94	15.10	14.59	15.21	0.001719	2.12	80.03	63.43	0.40
Riu Salamedu	789	Q(Tr=200)	115.82	11.94	15.13	14.67	15.28	0.002148	2.38	82.25	63.55	0.45
Riu Salamedu	789	Q(Tr=500)	137.46	11.94	15.27	14.79	15.43	0.002278	2.53	90.98	64.45	0.47
Riu Salamedu	786		Culvert									
Riu Salamedu	783	Q(TrC=)	22.00	11.84	13.88	13.74	14.05	0.004255	2.14	14.45	32.99	0.55
Riu Salamedu	783	Q(Tr=50)	83.59	11.84	14.96	14.42	15.03	0.001190	1.61	74.83	63.33	0.32
Riu Salamedu	783	Q(Tr=100)	99.60	11.84	15.10	14.49	15.18	0.001176	1.66	84.06	63.85	0.32
Riu Salamedu	783	Q(Tr=200)	115.82	11.84	15.14	14.58	15.24	0.001452	1.87	86.52	63.99	0.36
Riu Salamedu	783	Q(Tr=500)	137.46	11.84	15.27	14.64	15.39	0.001531	1.97	94.92	64.44	0.37
Riu Salamedu	776	Q(TrC=)	22.00	11.74	13.57	13.57	13.94	0.011907	2.98	8.46	10.30	0.84
Riu Salamedu	776	Q(Tr=50)	83.59	11.74	14.54	14.54	14.92	0.008078	3.53	33.75	37.59	0.76
Riu Salamedu	776	Q(Tr=100)	99.60	11.74	14.64	14.64	15.06	0.008450	3.72	37.44	38.13	0.78
Riu Salamedu	776	Q(Tr=200)	115.82	11.74	14.74	14.74	15.14	0.007580	3.63	46.60	54.70	0.74
Riu Salamedu	776	Q(Tr=500)	137.46	11.74	14.86	14.86	15.28	0.007624	3.75	52.88	57.13	0.75
Riu Salamedu	760	Q(TrC=)	22.00	11.50	13.18	13.33	13.70	0.017088	3.58	7.84	14.34	1.08

HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu Salamedu	760	Q(Tr=50)	83.59	11.50	13.86	14.11	14.69	0.018510	5.11	23.52	29.67	1.21
Riu Salamedu	760	Q(Tr=100)	99.60	11.50	13.99	14.23	14.83	0.017645	5.21	27.28	31.22	1.20
Riu Salamedu	760	Q(Tr=200)	115.82	11.50	14.14	14.33	14.93	0.014943	5.05	32.13	32.37	1.12
Riu Salamedu	760	Q(Tr=500)	137.46	11.50	14.32	14.47	15.08	0.012845	4.95	38.14	33.87	1.05
Riu Salamedu	740	Q(TrC=)	22.00	11.20	13.20	13.23	13.44	0.006515	2.54	12.66	26.02	0.67
Riu Salamedu	740	Q(Tr=50)	83.59	11.20	13.92	13.82	14.30	0.006832	3.39	32.69	30.73	0.73
Riu Salamedu	740	Q(Tr=100)	99.60	11.20	14.14	13.94	14.46	0.005084	3.12	44.04	45.53	0.64
Riu Salamedu	740	Q(Tr=200)	115.82	11.20	14.33	14.11	14.62	0.004232	2.99	53.10	50.98	0.59
Riu Salamedu	740	Q(Tr=500)	137.46	11.20	14.03	14.23	14.80	0.013093	4.86	39.16	44.22	1.02
Riu Salamedu	720	Q(TrC=)	22.00	10.90	12.69	12.88	13.22	0.014932	3.48	7.47	10.41	0.99
Riu Salamedu	720	Q(Tr=50)	83.59	10.90	13.87	13.70	14.16	0.004652	3.02	39.44	38.43	0.62
Riu Salamedu	720	Q(Tr=100)	99.60	10.90	14.09	13.82	14.35	0.003882	2.92	47.78	40.45	0.57
Riu Salamedu	720	Q(Tr=200)	115.82	10.90	14.28	13.92	14.53	0.003393	2.86	55.62	41.59	0.54
Riu Salamedu	720	Q(Tr=500)	137.46	10.90	14.05	14.05	14.59	0.008118	4.18	46.20	40.04	0.83
Riu Salamedu	700	Q(TrC=)	22.00	10.60	12.23	12.42	12.88	0.017371	3.82	6.79	10.06	1.11
Riu Salamedu	700	Q(Tr=50)	83.59	10.60	13.49	13.49	14.01	0.007265	3.98	29.07	24.53	0.81
Riu Salamedu	700	Q(Tr=100)	99.60	10.60	13.62	13.62	14.21	0.007599	4.22	32.41	25.16	0.84
Riu Salamedu	700	Q(Tr=200)	115.82	10.60	13.76	13.76	14.39	0.007770	4.41	35.79	25.87	0.85
Riu Salamedu	700	Q(Tr=500)	137.46	10.60	13.80	13.80	14.34	0.007347	4.33	49.03	47.40	0.83
Riu Salamedu	680	Q(TrC=)	22.00	10.30	11.97	12.11	12.53	0.014423	3.58	7.45	11.07	1.02
Riu Salamedu	680	Q(Tr=50)	83.59	10.30	12.76	13.06	13.73	0.017392	5.45	22.76	27.75	1.22
Riu Salamedu	680	Q(Tr=100)	99.60	10.30	12.86	13.18	13.92	0.018197	5.75	25.47	28.27	1.26
Riu Salamedu	680	Q(Tr=200)	115.82	10.30	12.95	13.30	14.09	0.018839	6.01	28.06	28.78	1.29
Riu Salamedu	680	Q(Tr=500)	137.46	10.30	13.66	13.44	13.93	0.003702	3.21	67.32	61.20	0.60
Riu Salamedu	660	Q(TrC=)	22.00	10.00	11.48	11.68	12.16	0.021975	3.98	6.57	10.27	1.23
Riu Salamedu	660	Q(Tr=50)	83.59	10.00	13.26	12.49	13.42	0.002260	2.45	55.61	55.87	0.46
Riu Salamedu	660	Q(Tr=100)	99.60	10.00	13.26	13.01	13.49	0.003182	2.91	55.79	55.91	0.55
Riu Salamedu	660	Q(Tr=200)	115.82	10.00	13.44	13.17	13.65	0.002708	2.80	66.05	57.85	0.51
Riu Salamedu	660	Q(Tr=500)	137.46	10.00	13.65	13.28	13.85	0.002367	2.74	78.38	60.28	0.49
Riu Salamedu	640	Q(TrC=)	22.00	9.81	11.34	11.36	11.74	0.014200	3.06	8.10	10.64	0.95
Riu Salamedu	640	Q(Tr=50)	83.59	9.81	12.28	12.28	13.24	0.015419	4.87	19.84	17.12	1.10
Riu Salamedu	640	Q(Tr=100)	99.60	9.81	12.84	12.84	13.36	0.007665	4.06	34.80	30.05	0.81
Riu Salamedu	640	Q(Tr=200)	115.82	9.81	12.97	12.97	13.52	0.007752	4.21	38.62	30.90	0.82
Riu Salamedu	640	Q(Tr=500)	137.46	9.81	13.11	13.11	13.72	0.007969	4.42	43.05	31.54	0.84
Riu Salamedu	620	Q(TrC=)	22.00	9.62	10.90	11.01	11.39	0.020477	3.47	7.42	11.88	1.15
Riu Salamedu	620	Q(Tr=50)	83.59	9.62	11.66	12.08	12.82	0.026276	5.79	19.00	21.85	1.44
Riu Salamedu	620	Q(Tr=100)	99.60	9.62	11.81	12.20	13.03	0.026181	6.12	22.62	26.52	1.46
Riu Salamedu	620	Q(Tr=200)	115.82	9.62	11.92	12.35	13.19	0.025505	6.28	25.56	27.81	1.45
Riu Salamedu	620	Q(Tr=500)	137.46	9.62	12.05	12.46	13.39	0.024867	6.49	29.33	29.49	1.45
Riu Salamedu	600	Q(TrC=)	22.00	9.43	10.91	10.88	11.18	0.009535	2.70	10.26	15.92	0.81
Riu Salamedu	600	Q(Tr=50)	83.59	9.43	11.46	11.71	12.27	0.019188	4.99	22.74	26.87	1.23
Riu Salamedu	600	Q(Tr=100)	99.60	9.43	11.54	11.83	12.48	0.020822	5.37	25.04	27.74	1.29
Riu Salamedu	600	Q(Tr=200)	115.82	9.43	11.66	11.95	12.64	0.020577	5.56	28.39	29.98	1.30
Riu Salamedu	600	Q(Tr=500)	137.46	9.43	11.77	12.06	12.85	0.020772	5.82	31.92	31.04	1.32
Riu Salamedu	580	Q(TrC=)	22.00	9.24	10.74	10.74	10.98	0.008599	2.61	11.38	20.26	0.78
Riu Salamedu	580	Q(Tr=50)	83.59	9.24	11.43	11.44	11.89	0.009574	3.77	29.88	31.01	0.89
Riu Salamedu	580	Q(Tr=100)	99.60	9.24	11.52	11.55	12.05	0.010542	4.08	32.60	31.67	0.94
Riu Salamedu	580	Q(Tr=200)	115.82	9.24	11.61	11.66	12.21	0.011223	4.35	35.58	32.90	0.98
Riu Salamedu	580	Q(Tr=500)	137.46	9.24	11.75	11.81	12.41	0.011363	4.57	40.22	34.82	1.00
Riu Salamedu	560	Q(TrC=)	22.00	9.05	10.27	10.40	10.69	0.019107	3.47	8.93	21.16	1.13
Riu Salamedu	560	Q(Tr=50)	83.59	9.05	10.84	11.05	11.55	0.020654	4.69	23.66	30.55	1.24
Riu Salamedu	560	Q(Tr=100)	99.60	9.05	10.96	11.17	11.70	0.019851	4.85	27.38	32.79	1.24
Riu Salamedu	560	Q(Tr=200)	115.82	9.05	11.05	11.29	11.86	0.019778	5.04	30.63	34.45	1.25
Riu Salamedu	560	Q(Tr=500)	137.46	9.05	11.17	11.42	12.04	0.019793	5.27	34.69	36.29	1.26
Riu Salamedu	550	Q(TrC=)	22.00	8.96	10.27	10.28	10.51	0.010426	2.65	10.95	20.19	0.83
Riu Salamedu	550	Q(Tr=50)	83.59	8.96	10.94	10.94	11.38	0.011130	3.72	29.83	35.18	0.92
Riu Salamedu	550	Q(Tr=100)	99.60	8.96	11.08	11.07	11.39	0.008107	3.35	44.03	61.02	0.80
Riu Salamedu	550	Q(Tr=200)	115.82	8.96	11.27	11.14	11.52	0.005663	3.00	56.09	64.80	0.68
Riu Salamedu	550	Q(Tr=500)	137.46	8.96	11.02	11.23	11.75	0.019278	5.05	40.45	59.81	1.23
Riu Salamedu	539	Q(TrC=)	22.00	8.85	9.97	10.08	10.36	0.016176	3.20	9.49	22.39	0.96
Riu Salamedu	539	Q(Tr=50)	83.59	8.85	10.54	10.70	11.20	0.018716	4.51	24.69	31.18	1.11
Riu Salamedu	539	Q(Tr=100)	99.60	8.85	11.10	10.83	11.29	0.003974	2.52	56.30	63.58	0.54
Riu Salamedu	539	Q(Tr=200)	115.82	8.85	11.28	10.97	11.45	0.003204	2.38	67.67	66.81	0.49
Riu Salamedu	539	Q(Tr=500)	137.46	8.85	11.07	11.07	11.46	0.008508	3.65	53.97	62.67	0.78
Riu Salamedu	538.7	Q(TrC=)	22.00	8.45	9.83	10.02	10.34	0.016668	3.40	8.02	18.25	0.92
Riu Salamedu	538.7	Q(Tr=50)	83.59	8.45	10.47	10.67	11.19	0.018875	4.66	24.17	29.96	1.05
Riu Salamedu	538.7	Q(Tr=100)	99.60	8.45	10.79	10.79	11.26	0.009994	3.75	34.59	34.29	0.78
Riu Salamedu	538.7	Q(Tr=200)	115.82	8.45	10.93	10.93	11.42	0.009724	3.84	39.59	37.97	0.78
Riu Salamedu	538.7	Q(Tr=500)	137.46	8.45	11.06	11.06	11.44	0.007874	3.58	55.25	62.62	0.71
Riu Salamedu	526.3	Q(TrC=)	22.00	8.20	8.74	9.08	9.90	0.072921	4.75	4.63	8.50	2.05
Riu Salamedu	526.3	Q(Tr=50)	83.59	8.20	9.95	10.28	10.93	0.019140	4.72	21.92	29.39	1.14
Riu Salamedu	526.3	Q(Tr=100)	99.60	8.20	10.10	10.41	11.05	0.017872	4.77	26.36	31.50	1.11
Riu Salamedu	526.3	Q(Tr=200)	115.82	8.20	10.19	10.51	11.21	0.018478	4.99	29.46	32.47	1.13

HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu Salamedu	526.3	Q(Tr=500)	137.46	8.20	10.42	10.64	11.27	0.014315	4.66	37.19	34.29	1.00
Riu Salamedu	526	Q(TrC=)	22.00	7.75	9.45	8.63	9.57	0.002111	1.50	15.13	12.99	0.37
Riu Salamedu	526	Q(Tr=50)	83.59	7.75	9.61	10.15	10.90	0.021931	5.10	17.69	18.28	1.19
Riu Salamedu	526	Q(Tr=100)	99.60	7.75	9.89	10.29	11.03	0.017751	4.95	23.97	28.45	1.08
Riu Salamedu	526	Q(Tr=200)	115.82	7.75	10.01	10.42	11.19	0.017921	5.13	27.63	29.86	1.09
Riu Salamedu	526	Q(Tr=500)	137.46	7.75	10.26	10.55	11.25	0.014492	4.88	35.51	33.40	0.98
Riu Salamedu	514	Q(TrC=)	22.00	7.42	9.47	8.28	9.53	0.000889	1.14	21.15	16.33	0.25
Riu Salamedu	514	Q(Tr=50)	83.59	7.42	10.25	9.55	10.49	0.002859	2.42	43.94	35.08	0.46
Riu Salamedu	514	Q(Tr=100)	99.60	7.42	10.40	10.00	10.66	0.003024	2.57	49.34	36.24	0.47
Riu Salamedu	514	Q(Tr=200)	115.82	7.42	10.54	10.15	10.82	0.003185	2.71	54.38	38.06	0.49
Riu Salamedu	514	Q(Tr=500)	137.46	7.42	10.70	10.31	10.96	0.002894	2.68	70.61	59.75	0.47
Riu Salamedu	513.7	Q(TrC=)	22.00	6.77	9.49	7.63	9.53	0.000414	0.87	27.22	18.33	0.17
Riu Salamedu	513.7	Q(Tr=50)	83.59	6.77	10.29	8.91	10.47	0.001746	2.05	51.31	35.45	0.35
Riu Salamedu	513.7	Q(Tr=100)	99.60	6.77	10.44	9.35	10.64	0.001940	2.22	56.73	37.17	0.37
Riu Salamedu	513.7	Q(Tr=200)	115.82	6.77	10.58	9.55	10.80	0.002107	2.37	61.93	38.85	0.39
Riu Salamedu	513.7	Q(Tr=500)	137.46	6.77	10.74	10.10	10.95	0.002048	2.40	78.50	60.45	0.39
Riu Salamedu	497	Q(TrC=)	22.00	6.54	8.72	8.72	9.34	0.007509	3.61	6.90	6.25	0.90
Riu Salamedu	497	Q(Tr=50)	83.59	6.54	10.26	9.95	10.44	0.001746	2.70	56.91	51.27	0.48
Riu Salamedu	497	Q(Tr=100)	99.60	6.54	10.42	10.04	10.60	0.001710	2.76	65.38	53.16	0.48
Riu Salamedu	497	Q(Tr=200)	115.82	6.54	10.57	10.13	10.75	0.001709	2.84	73.15	55.03	0.48
Riu Salamedu	497	Q(Tr=500)	137.46	6.54	10.70	10.24	10.92	0.001878	3.05	80.89	58.98	0.51
Riu Salamedu	480	Q(TrC=)	22.00	6.34	7.74	8.08	9.05	0.023900	5.08	4.33	3.20	1.40
Riu Salamedu	480	Q(Tr=50)	83.59	6.34	9.83	9.83	10.28	0.005592	3.73	33.90	34.49	0.65
Riu Salamedu	480	Q(Tr=100)	99.60	6.34	9.98	9.98	10.44	0.005685	3.87	39.11	42.13	0.66
Riu Salamedu	480	Q(Tr=200)	115.82	6.34	10.09	10.09	10.58	0.005865	4.02	44.27	44.65	0.67
Riu Salamedu	480	Q(Tr=500)	137.46	6.34	10.24	10.24	10.75	0.005926	4.14	50.84	46.53	0.68
Riu Salamedu	460	Q(TrC=)	22.00	6.11	8.12	7.81	8.67	0.007297	3.28	6.71	3.68	0.78
Riu Salamedu	460	Q(Tr=50)	83.59	6.11	9.43	9.59	10.15	0.007717	4.50	28.40	30.13	0.82
Riu Salamedu	460	Q(Tr=100)	99.60	6.11	9.57	9.79	10.31	0.007861	4.67	32.72	31.58	0.83
Riu Salamedu	460	Q(Tr=200)	115.82	6.11	9.74	9.95	10.45	0.007523	4.73	38.74	40.99	0.82
Riu Salamedu	460	Q(Tr=500)	137.46	6.11	9.90	10.07	10.62	0.007552	4.88	45.79	48.71	0.83
Riu Salamedu	440	Q(TrC=)	22.00	5.88	8.10	7.56	8.51	0.004785	2.82	7.94	8.44	0.65
Riu Salamedu	440	Q(Tr=50)	83.59	5.88	9.11	9.39	9.98	0.008271	4.88	28.11	37.79	0.91
Riu Salamedu	440	Q(Tr=100)	99.60	5.88	9.22	9.52	10.14	0.008706	5.14	32.84	42.48	0.94
Riu Salamedu	440	Q(Tr=200)	115.82	5.88	9.31	9.61	10.28	0.009326	5.42	36.58	44.20	0.97
Riu Salamedu	440	Q(Tr=500)	137.46	5.88	9.42	9.75	10.44	0.009882	5.71	41.57	46.42	1.01
Riu Salamedu	420	Q(TrC=)	22.00	5.67	7.47	7.43	8.31	0.013425	4.06	5.42	3.01	0.97
Riu Salamedu	420	Q(Tr=50)	83.59	5.67	9.26	9.26	9.62	0.005121	3.50	38.80	43.07	0.59
Riu Salamedu	420	Q(Tr=100)	99.60	5.67	9.35	9.35	9.75	0.005753	3.77	42.63	44.29	0.63
Riu Salamedu	420	Q(Tr=200)	115.82	5.67	9.20	9.37	10.03	0.011786	5.25	36.07	42.42	0.89
Riu Salamedu	420	Q(Tr=500)	137.46	5.67	9.83	9.67	10.08	0.003488	3.19	69.36	57.98	0.50
Riu Salamedu	400	Q(TrC=)	22.00	5.46	7.40	7.18	8.04	0.008913	3.52	6.25	3.43	0.83
Riu Salamedu	400	Q(Tr=50)	83.59	5.46	8.83	9.06	9.47	0.006986	4.31	29.15	27.93	0.77
Riu Salamedu	400	Q(Tr=100)	99.60	5.46	9.16	9.19	9.64	0.005153	3.96	41.13	39.66	0.67
Riu Salamedu	400	Q(Tr=200)	115.82	5.46	9.26	9.31	9.77	0.005497	4.17	45.20	40.74	0.70
Riu Salamedu	400	Q(Tr=500)	137.46	5.46	9.33	9.33	9.95	0.006599	4.62	48.16	44.73	0.77
Riu Salamedu	380	Q(TrC=)	22.00	5.25	7.26	6.97	7.85	0.008212	3.41	6.45	3.42	0.79
Riu Salamedu	380	Q(Tr=50)	83.59	5.25	8.23	8.57	9.25	0.012734	5.41	25.57	37.76	1.03
Riu Salamedu	380	Q(Tr=100)	99.60	5.25	8.32	8.64	9.41	0.013900	5.77	28.93	40.47	1.08
Riu Salamedu	380	Q(Tr=200)	115.82	5.25	8.99	8.76	9.24	0.003025	3.09	60.61	51.39	0.52
Riu Salamedu	380	Q(Tr=500)	137.46	5.25	9.16	8.87	9.42	0.002911	3.13	69.65	53.19	0.51
Riu Salamedu	360	Q(TrC=)	22.00	5.04	7.23	6.74	7.68	0.005546	2.96	7.44	3.79	0.67
Riu Salamedu	360	Q(Tr=50)	83.59	5.04	8.20	8.43	8.98	0.009024	4.73	27.71	34.42	0.89
Riu Salamedu	360	Q(Tr=100)	99.60	5.04	8.32	8.57	9.13	0.009231	4.92	32.31	37.68	0.90
Riu Salamedu	360	Q(Tr=200)	115.82	5.04	8.66	8.66	9.15	0.005453	4.06	46.04	43.64	0.71
Riu Salamedu	360	Q(Tr=500)	137.46	5.04	8.77	8.77	9.32	0.005994	4.35	51.13	46.49	0.75
Riu Salamedu	340	Q(TrC=)	22.00	4.83	6.78	6.59	7.50	0.010889	3.75	5.87	3.02	0.86
Riu Salamedu	340	Q(Tr=50)	83.59	4.83	7.97	8.24	8.80	0.013009	5.04	27.42	41.22	0.91
Riu Salamedu	340	Q(Tr=100)	99.60	4.83	8.06	8.35	8.94	0.013945	5.32	31.37	45.13	0.95
Riu Salamedu	340	Q(Tr=200)	115.82	4.83	8.18	8.43	8.99	0.013063	5.27	36.61	46.83	0.92
Riu Salamedu	340	Q(Tr=500)	137.46	4.83	8.26	8.54	9.14	0.014241	5.59	40.66	48.41	0.96
Riu Salamedu	320	Q(TrC=)	22.00	4.62	6.76	6.34	7.27	0.006648	3.15	6.98	3.52	0.71
Riu Salamedu	320	Q(Tr=50)	83.59	4.62	7.58	7.88	8.54	0.012755	5.31	27.30	45.74	1.02
Riu Salamedu	320	Q(Tr=100)	99.60	4.62	7.66	7.97	8.66	0.013675	5.60	30.95	46.64	1.06
Riu Salamedu	320	Q(Tr=200)	115.82	4.62	7.75	8.10	8.72	0.013363	5.66	35.50	48.47	1.05
Riu Salamedu	320	Q(Tr=500)	137.46	4.62	7.84	8.21	8.86	0.014212	5.95	39.90	51.69	1.09
Riu Salamedu	300	Q(TrC=)	22.00	4.41	6.29	6.17	7.07	0.012085	3.90	5.64	3.00	0.91
Riu Salamedu	300	Q(Tr=50)	83.59	4.41	7.39	7.66	8.24	0.013468	5.18	27.39	41.74	0.96
Riu Salamedu	300	Q(Tr=100)	99.60	4.41	7.48	7.75	8.34	0.013818	5.35	31.32	44.31	0.98
Riu Salamedu	300	Q(Tr=200)	115.82	4.41	7.58	7.82	8.40	0.013324	5.37	35.96	47.69	0.96
Riu Salamedu	300	Q(Tr=500)	137.46	4.41	7.69	7.95	8.52	0.013544	5.53	41.10	51.58	0.98
Riu Salamedu	280	Q(TrC=)	22.00	4.15	5.91	5.91	6.79	0.014306	4.16	5.29	3.00	1.00

HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu Salamedu	280	Q(Tr=50)	83.59	4.15	7.03	7.31	7.94	0.015293	5.38	27.49	48.38	1.01
Riu Salamedu	280	Q(Tr=100)	99.60	4.15	7.12	7.40	8.03	0.015865	5.59	31.51	50.06	1.04
Riu Salamedu	280	Q(Tr=200)	115.82	4.15	7.20	7.48	8.10	0.015832	5.68	35.74	51.83	1.04
Riu Salamedu	280	Q(Tr=500)	137.46	4.15	7.29	7.58	8.21	0.016250	5.87	40.55	53.65	1.06
Riu Salamedu	260	Q(TrC=)	22.00	3.90	5.26	5.57	6.43	0.019784	4.80	4.59	3.75	1.39
Riu Salamedu	260	Q(Tr=50)	83.59	3.90	7.11	6.91	7.27	0.002195	2.51	57.98	61.43	0.47
Riu Salamedu	260	Q(Tr=100)	99.60	3.90	7.27	6.99	7.43	0.002123	2.55	67.83	67.35	0.47
Riu Salamedu	260	Q(Tr=200)	115.82	3.90	7.40	7.07	7.56	0.002106	2.62	76.66	70.91	0.47
Riu Salamedu	260	Q(Tr=500)	137.46	3.90	7.54	7.15	7.71	0.002142	2.72	87.09	75.24	0.48
Riu Salamedu	240	Q(TrC=)	22.00	3.64	6.01	5.38	6.20	0.003085	2.19	14.98	26.81	0.47
Riu Salamedu	240	Q(Tr=50)	83.59	3.64	7.13	6.60	7.22	0.001222	1.80	74.89	73.93	0.31
Riu Salamedu	240	Q(Tr=100)	99.60	3.64	7.29	6.70	7.37	0.001214	1.85	87.08	82.36	0.32
Riu Salamedu	240	Q(Tr=200)	115.82	3.64	7.41	6.83	7.50	0.001308	1.96	97.66	85.90	0.33
Riu Salamedu	240	Q(Tr=500)	137.46	3.64	7.56	6.94	7.66	0.001298	2.01	110.27	87.84	0.33
Riu Salamedu	220	Q(TrC=)	22.00	3.38	5.24	5.14	6.03	0.012466	3.95	5.57	3.01	0.93
Riu Salamedu	220	Q(Tr=50)	83.59	3.38	7.15	6.49	7.19	0.000611	1.26	102.74	86.89	0.21
Riu Salamedu	220	Q(Tr=100)	99.60	3.38	7.30	6.56	7.34	0.000600	1.28	116.39	88.53	0.21
Riu Salamedu	220	Q(Tr=200)	115.82	3.38	7.43	6.62	7.47	0.000619	1.33	127.61	92.39	0.21
Riu Salamedu	220	Q(Tr=500)	137.46	3.38	7.57	6.70	7.62	0.000677	1.42	141.07	95.87	0.22
Riu Salamedu	200	Q(TrC=)	22.00	3.13	4.99	4.89	5.78	0.012464	3.95	5.58	3.01	0.93
Riu Salamedu	200	Q(Tr=50)	83.59	3.13	7.15	6.08	7.17	0.000241	0.83	147.05	102.27	0.13
Riu Salamedu	200	Q(Tr=100)	99.60	3.13	7.31	6.15	7.33	0.000250	0.86	163.13	104.14	0.14
Riu Salamedu	200	Q(Tr=200)	115.82	3.13	7.44	6.25	7.46	0.000267	0.91	176.30	105.61	0.14
Riu Salamedu	200	Q(Tr=500)	137.46	3.13	7.58	6.30	7.61	0.000295	0.98	191.68	108.64	0.15
Riu Salamedu	180	Q(TrC=)	22.00	2.87	4.84	4.63	5.52	0.010356	3.66	6.42	8.74	0.83
Riu Salamedu	180	Q(Tr=50)	83.59	2.87	7.16	5.70	7.17	0.000111	0.59	198.01	118.68	0.09
Riu Salamedu	180	Q(Tr=100)	99.60	2.87	7.31	5.76	7.32	0.000120	0.63	216.67	120.56	0.10
Riu Salamedu	180	Q(Tr=200)	115.82	2.87	7.44	5.81	7.45	0.000132	0.67	231.99	122.55	0.10
Riu Salamedu	180	Q(Tr=500)	137.46	2.87	7.58	5.87	7.60	0.000149	0.73	249.88	125.06	0.11
Riu Salamedu	160	Q(TrC=)	22.00	2.62	4.42	4.38	5.26	0.013434	4.06	5.42	3.01	0.97
Riu Salamedu	160	Q(Tr=50)	83.59	2.62	7.16	5.46	7.17	0.000079	0.52	218.23	117.45	0.08
Riu Salamedu	160	Q(Tr=100)	99.60	2.62	7.31	5.53	7.32	0.000088	0.56	236.72	119.38	0.08
Riu Salamedu	160	Q(Tr=200)	115.82	2.62	7.44	5.58	7.45	0.000098	0.61	251.86	121.06	0.09
Riu Salamedu	160	Q(Tr=500)	137.46	2.62	7.58	5.65	7.60	0.000113	0.66	269.48	122.95	0.10
Riu Salamedu	140	Q(TrC=)	22.00	2.35	4.11	4.11	4.98	0.013975	4.13	5.32	3.05	1.00
Riu Salamedu	140	Q(Tr=50)	83.59	2.35	7.16	5.10	7.16	0.000046	0.43	260.55	123.56	0.06
Riu Salamedu	140	Q(Tr=100)	99.60	2.35	7.31	5.17	7.32	0.000053	0.47	279.94	124.96	0.07
Riu Salamedu	140	Q(Tr=200)	115.82	2.35	7.44	5.24	7.45	0.000060	0.51	295.73	125.53	0.07
Riu Salamedu	140	Q(Tr=500)	137.46	2.35	7.58	5.32	7.59	0.000070	0.56	313.92	126.14	0.08
Riu Salamedu	128	Q(TrC=)	22.00	2.20	2.85	3.31	4.48	0.046018	5.65	3.90	6.00	2.24
Riu Salamedu	128	Q(Tr=50)	83.59	2.20	7.14	5.01	7.16	0.000104	0.80	191.54	118.39	0.11
Riu Salamedu	128	Q(Tr=100)	99.60	2.20	7.30	5.32	7.31	0.000114	0.85	210.00	119.36	0.12
Riu Salamedu	128	Q(Tr=200)	115.82	2.20	7.42	5.61	7.44	0.000126	0.91	224.94	120.43	0.13
Riu Salamedu	128	Q(Tr=500)	137.46	2.20	7.57	5.96	7.59	0.000143	0.98	242.23	121.71	0.14
Riu Salamedu	120	Bridge										
Riu Salamedu	111	Q(TrC=)	22.00	1.97	3.08	3.08	3.64	0.009000	3.30	6.67	6.00	1.00
Riu Salamedu	111	Q(Tr=50)	83.59	1.97	4.77	4.77	5.96	0.011120	4.88	18.07	31.30	0.93
Riu Salamedu	111	Q(Tr=100)	99.60	1.97	5.08	5.08	6.40	0.010785	5.16	20.57	37.30	0.93
Riu Salamedu	111	Q(Tr=200)	115.82	1.97	5.37	5.37	6.81	0.010581	5.42	22.88	40.26	0.94
Riu Salamedu	111	Q(Tr=500)	137.46	1.97	5.73	5.73	7.33	0.010394	5.74	25.74	42.90	0.95
Riu Salamedu	91	Q(TrC=)	22.00	1.74	2.41	2.67	3.32	0.027251	4.54	6.71	25.77	1.87
Riu Salamedu	91	Q(Tr=50)	83.59	1.74	2.66	3.16	5.37	0.067041	8.92	15.65	41.02	3.11
Riu Salamedu	91	Q(Tr=100)	99.60	1.74	2.70	3.26	5.79	0.073981	9.67	17.32	42.11	3.29
Riu Salamedu	91	Q(Tr=200)	115.82	1.74	2.74	3.35	6.18	0.080193	10.35	18.88	42.98	3.45
Riu Salamedu	91	Q(Tr=500)	137.46	1.74	2.78	3.46	6.67	0.087459	11.15	20.84	43.98	3.63
Riu Salamedu	71	Q(TrC=)	22.00	1.54	2.37	2.54	2.87	0.010814	3.52	9.91	34.70	1.25
Riu Salamedu	71	Q(Tr=50)	83.59	1.54	2.65	3.08	4.22	0.029345	7.08	20.91	43.46	2.17
Riu Salamedu	71	Q(Tr=100)	99.60	1.54	2.71	3.17	4.51	0.032315	7.70	23.74	48.78	2.30
Riu Salamedu	71	Q(Tr=200)	115.82	1.54	2.76	3.24	4.78	0.035513	8.29	26.04	51.61	2.42
Riu Salamedu	71	Q(Tr=500)	137.46	1.54	2.81	3.34	5.12	0.039952	9.01	28.41	52.58	2.59
Riu Salamedu	31	Q(TrC=)	22.00	1.12	2.38	2.39	2.60	0.002678	2.28	15.52	41.09	0.66
Riu Salamedu	31	Q(Tr=50)	83.59	1.12	2.77	2.96	3.41	0.007300	4.53	33.50	50.56	1.15
Riu Salamedu	31	Q(Tr=100)	99.60	1.12	2.82	3.04	3.59	0.008621	5.02	36.05	51.32	1.25
Riu Salamedu	31	Q(Tr=200)	115.82	1.12	2.87	3.15	3.75	0.009667	5.44	38.97	53.10	1.33
Riu Salamedu	31	Q(Tr=500)	137.46	1.12	2.94	3.25	3.96	0.010975	5.94	42.42	54.29	1.43
Riu Salamedu	0	Q(TrC=)	22.00	0.27	1.80	0.12	1.80	0.000010	0.17	169.63	111.07	0.04
Riu Salamedu	0	Q(Tr=50)	83.59	0.27	1.80	0.45	1.81	0.000149	0.63	169.63	111.07	0.17
Riu Salamedu	0	Q(Tr=100)	99.60	0.27	1.80	0.51	1.82	0.000211	0.75	169.63	111.07	0.20
Riu Salamedu	0	Q(Tr=200)	115.82	0.27	1.80	0.57	1.83	0.000285	0.88	169.63	111.07	0.23
Riu Salamedu	0	Q(Tr=500)	137.46	0.27	1.80	0.64	1.84	0.000402	1.04	169.63	111.07	0.27

HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu

HEC-RAS Plan: SDF		River: Salamedu		Reach: Riu Salamedu									
Reach		River Sta	Profile	E.G. US.	W.S. US.	E.G. IC	E.G. OC	Min El Weir Flow	Q Culv Group	Q Weir	Delta WS	Culv Vel US	Culv Vel DS
				(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m)	(m/s)	(m/s)
Riu Salamedu	786	Culvert #1	Q(TrC=)	14.07	13.98	14.07	14.07	13.00	0.55	21.45	0.10	0.70	0.70
Riu Salamedu	786	Culvert #1	Q(Tr=50)	15.06	14.95	12.57	15.06	13.00	0.61	82.51	0.01	0.78	0.78
Riu Salamedu	786	Culvert #1	Q(Tr=100)	15.21	15.10	12.58	15.21	13.00	0.64	100.39	0.01	0.81	0.81
Riu Salamedu	786	Culvert #1	Q(Tr=200)	15.28	15.13	12.61	15.28	13.00	0.70	115.00	0.01	0.89	0.89
Riu Salamedu	786	Culvert #1	Q(Tr=500)	15.43	15.27	12.65	15.43	13.00	0.76	138.03	0.00	0.97	0.97



HEC-RAS Plan: SDF River: Salamedu Reach: Riu Salamedu

Reach	River Sta	Profile	E.G. U.S.	Min El Prs	BR Open Area	Prs O WS	Q Total	Min El Weir Flow	Q Weir	Delta EG	BR Sluice Coef
			(m)	(m)	(m2)	(m)	(m3/s)	(m)	(m3/s)	(m)	
Riu Salamedu	120	Q(TrC=)	4.48	4.35	12.99	2.85	22.00	6.96		0.84	
Riu Salamedu	120	Q(Tr=50)	7.16	4.35	12.99		83.59	6.96	12.47	0.49	
Riu Salamedu	120	Q(Tr=100)	7.31	4.35	12.99		99.60	6.96	30.82	0.48	
Riu Salamedu	120	Q(Tr=200)	7.44	4.35	12.99		115.82	6.96	49.59	0.44	
Riu Salamedu	120	Q(Tr=500)	7.59	4.35	12.99		137.46	6.96	74.71	0.25	