

PIANO STRUTTURALE

ALLEGATI HEC-RAS

aprile 2024

Comune di Gaiole in Chianti

Piano Strutturale

progetto:

Roberto Vezzosi (capogruppo)

Stefania Rizzotti, Idp studio

Massimiliano Rossi, Davide Giovannuzzi – ProGeo Engineering s.r.l.

Fabio Poggi, Mirko Frascioni, Matteo Frascioni

Monica Coletta

Valentina Vettori

Sindaco e Assessore alla Pianificazione Territoriale: Michele Pescini

Garante dell'informazione e della partecipazione: Alessio Bucciarelli

Responsabile del procedimento: Lisa Franceschini

Comune di Gaiole in Chianti

SOMMARIO

1. Modello “FOSSO DI LECCHI”	1
1.1. Fosso di Lecchi - “LECCHI”	2
1.2. Torrente Massellone - “MASSELLONE”	34
2. Modello “FOSSO DEL MONTI”	65
2.1. Fosso del Monti - “Fosso del Monti”	66
3. Modello “TS 2834”	90
3.1. Fosso di San Giusto - “TS 2834”	91
4. Modello Gaiole in Chianti “GAIOLE ABITATO ULTIMO”	111
4.1. Torrente Massellone - “T.MASS”	112
4.2. Fosso Grande - “F GRANDE”	148
4.3. Fosso il Piano - “IlPiano”	183
4.4. Fosso Cavarchino - “TS551”	200
4.5. Fosso Capannelle - “TS418”	224
4.6. Fosso delle Corti - “FOSSO DELLE CORTI”	245

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

LECCHI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

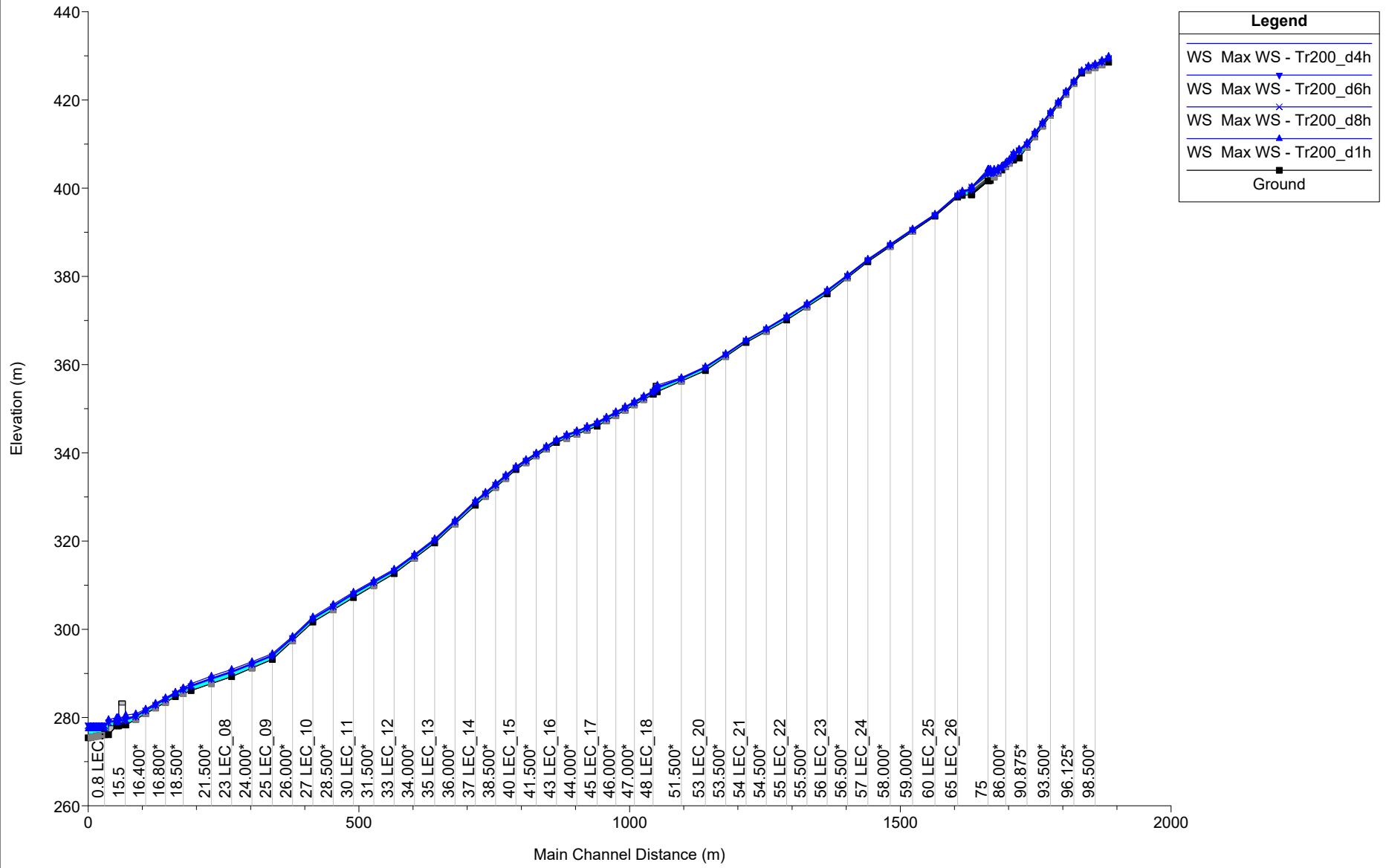
LECCHI

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale

Fosso di Lecchi Plan: 1) Tr200_d4h 09/04/2024 2) Tr200_d1h 09/04/2024 3) Tr200_d6h 09/04/2024 4) Tr200_d8h 09/04/2024



ALLEGATI

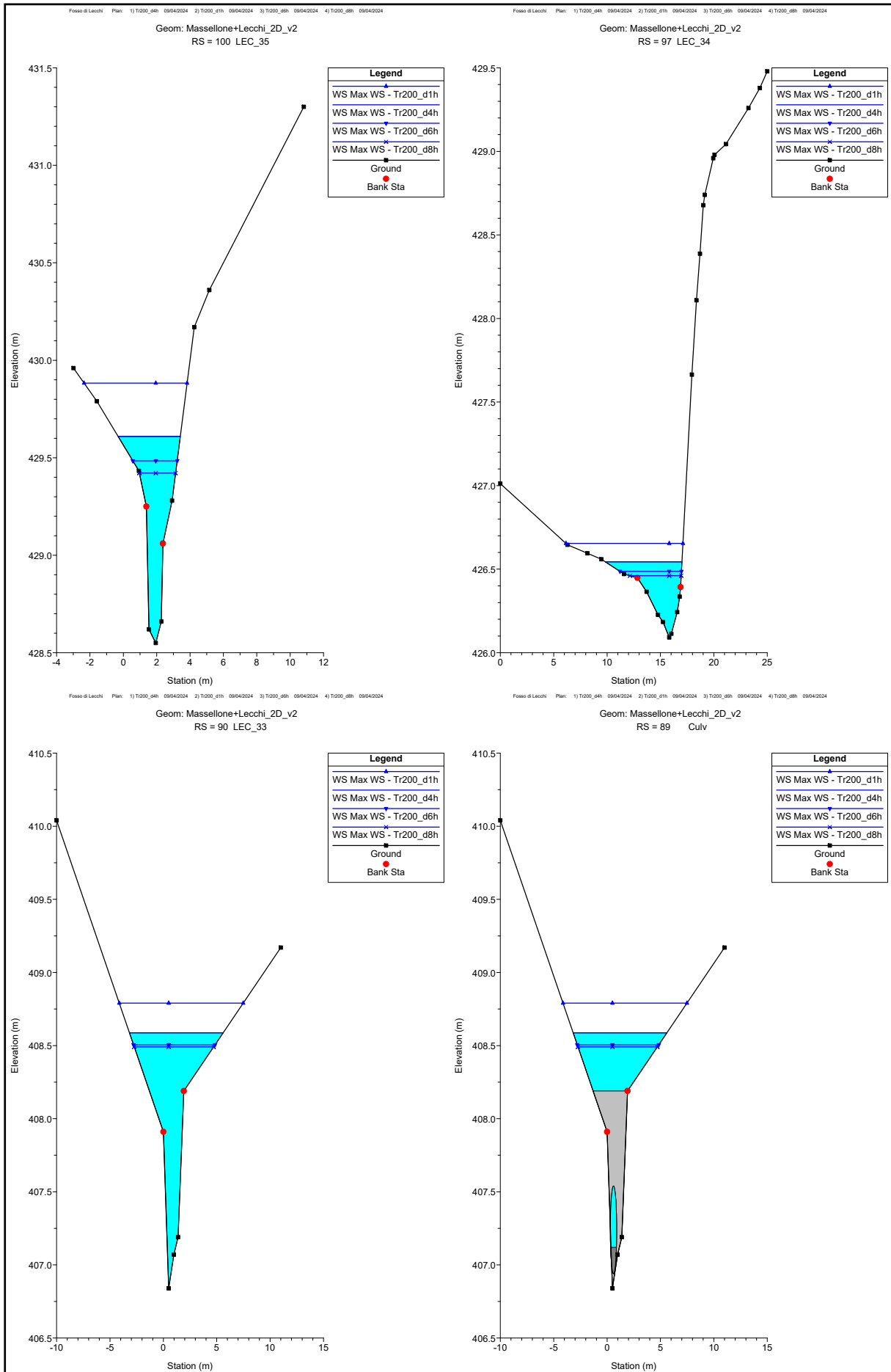
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

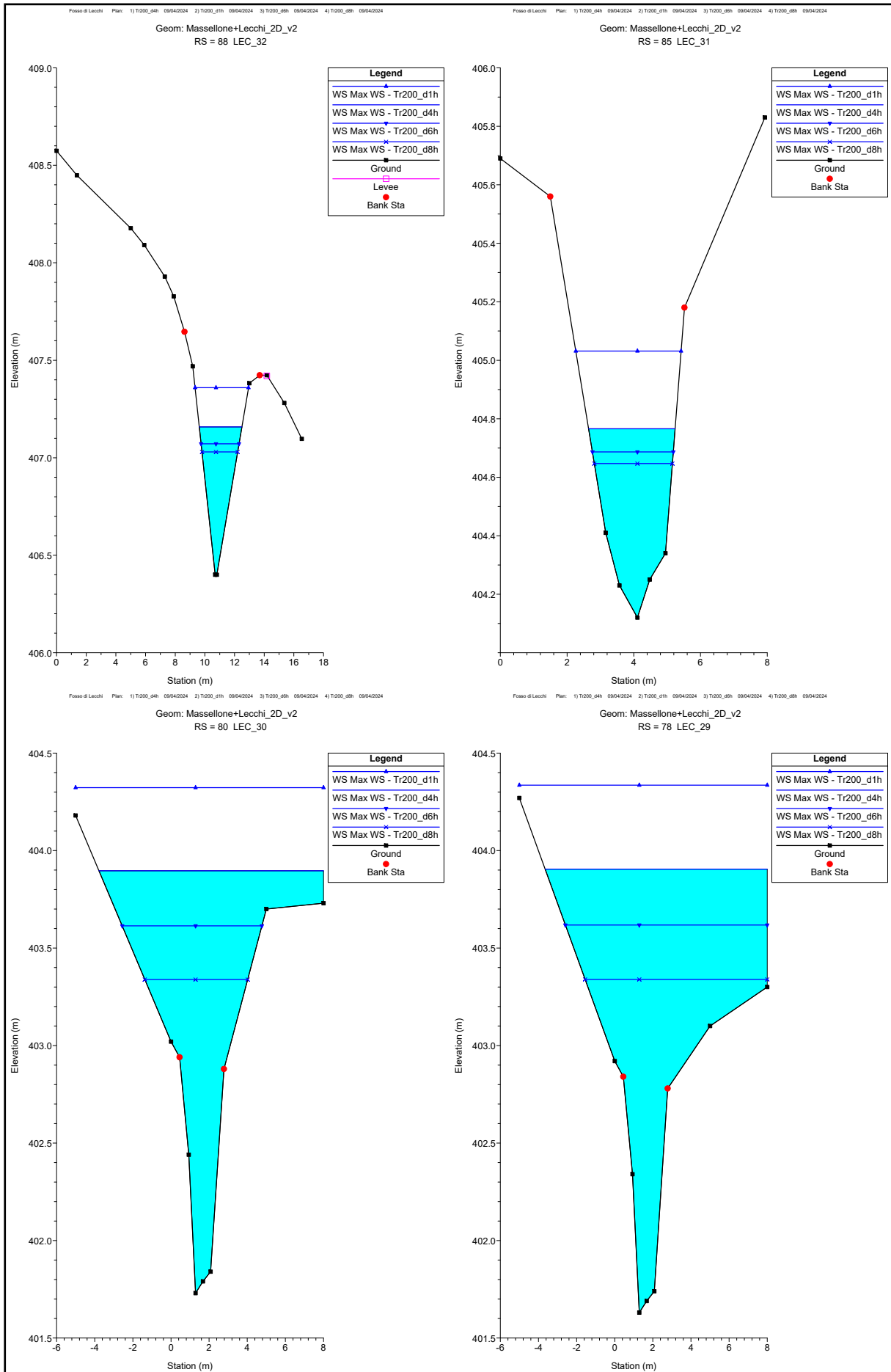
LECCHI

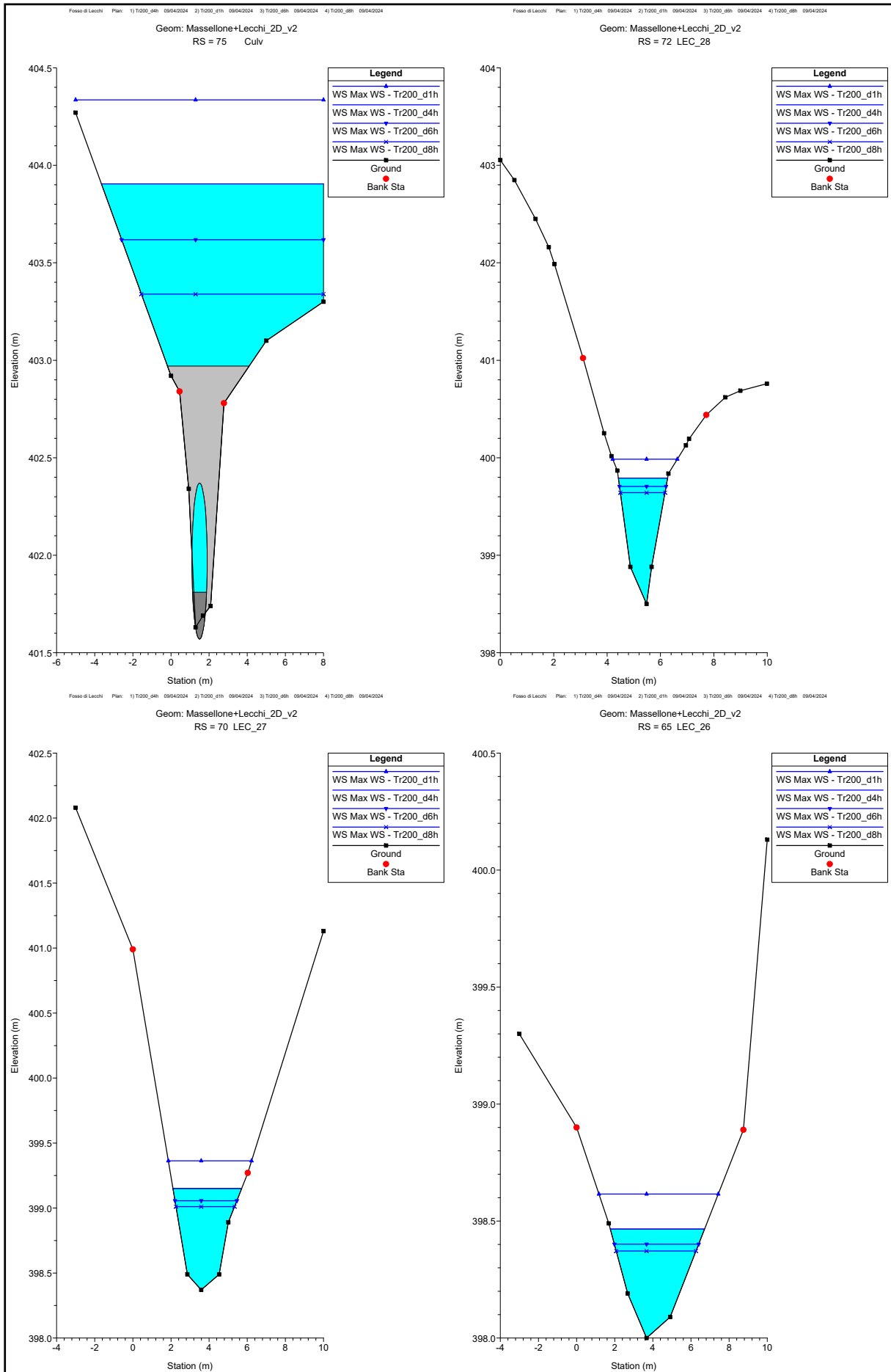
MODELLAZIONE PER TR= 200 anni

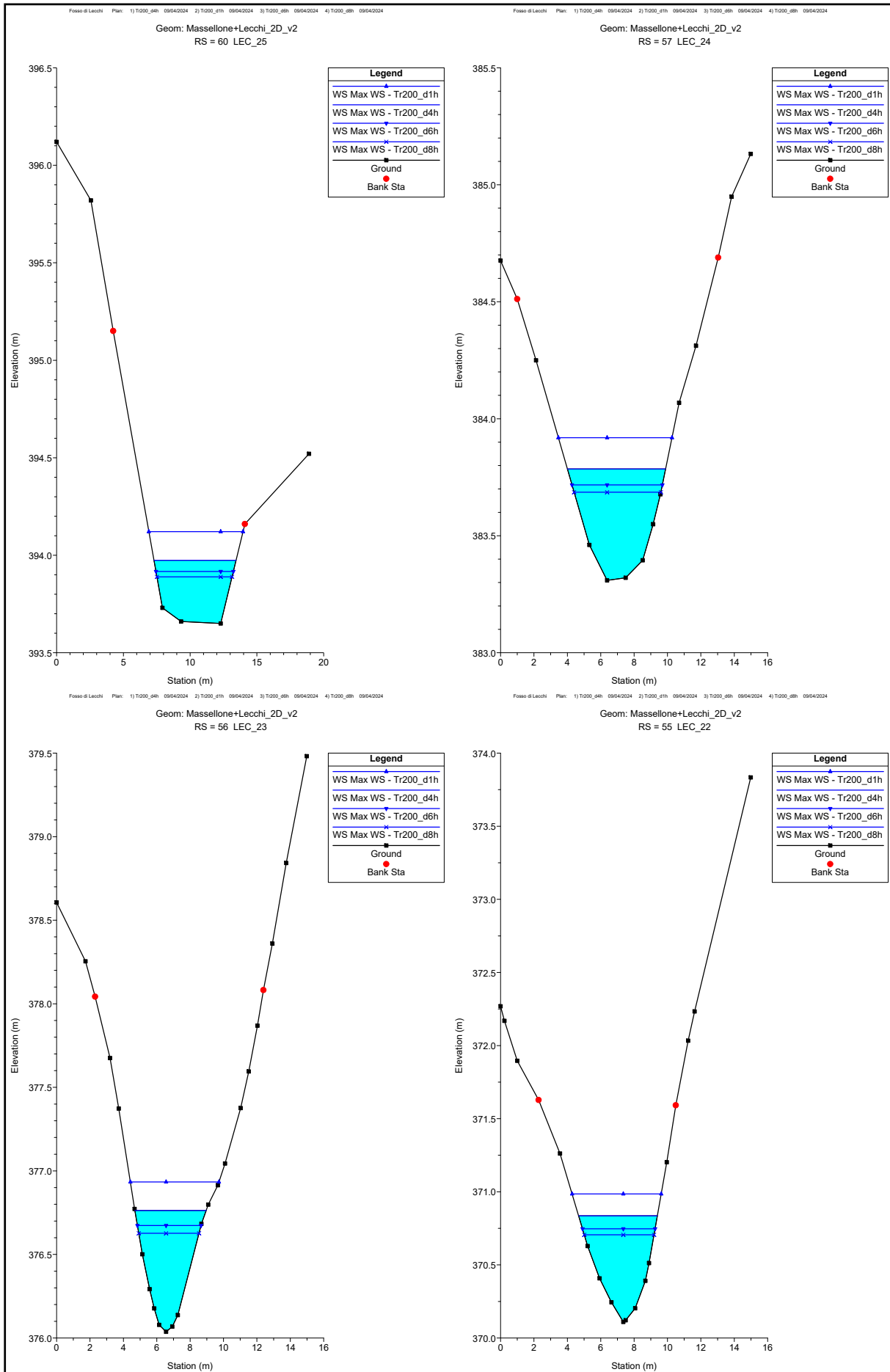
DURATE DI PIOGGIA: 1, 4, 6 e 8 h

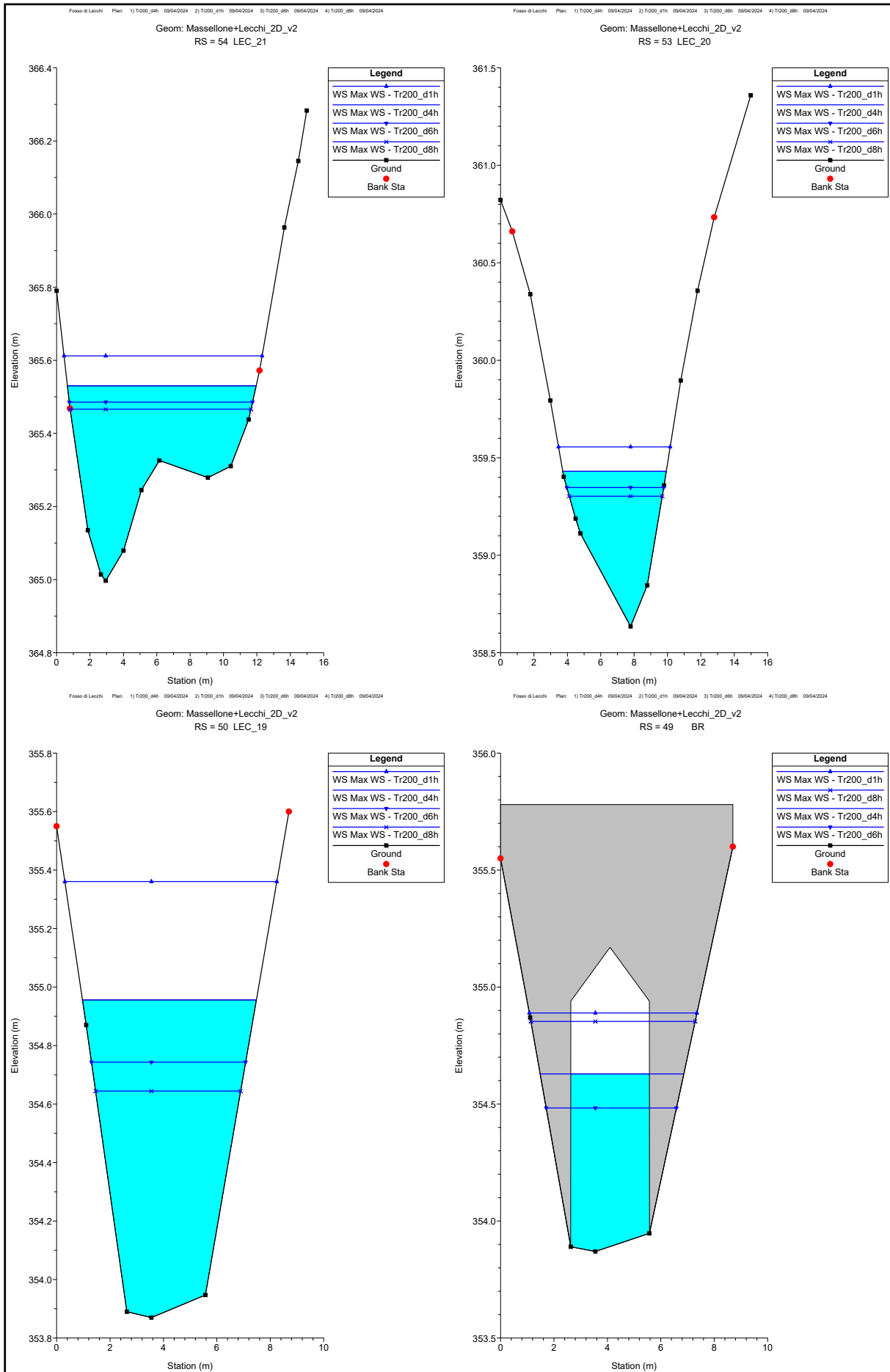
Sezioni Trasversali (da monte verso valle)

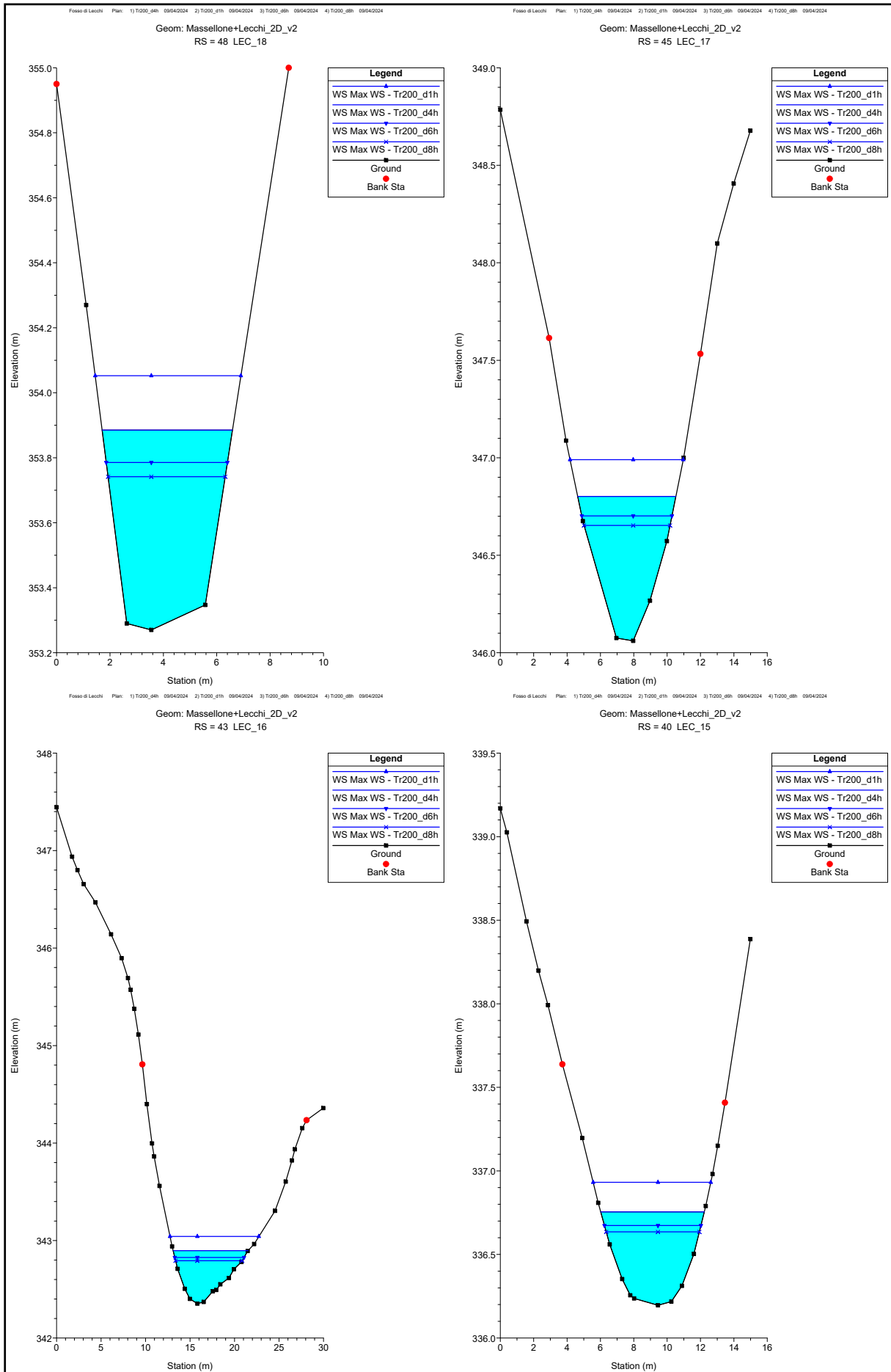


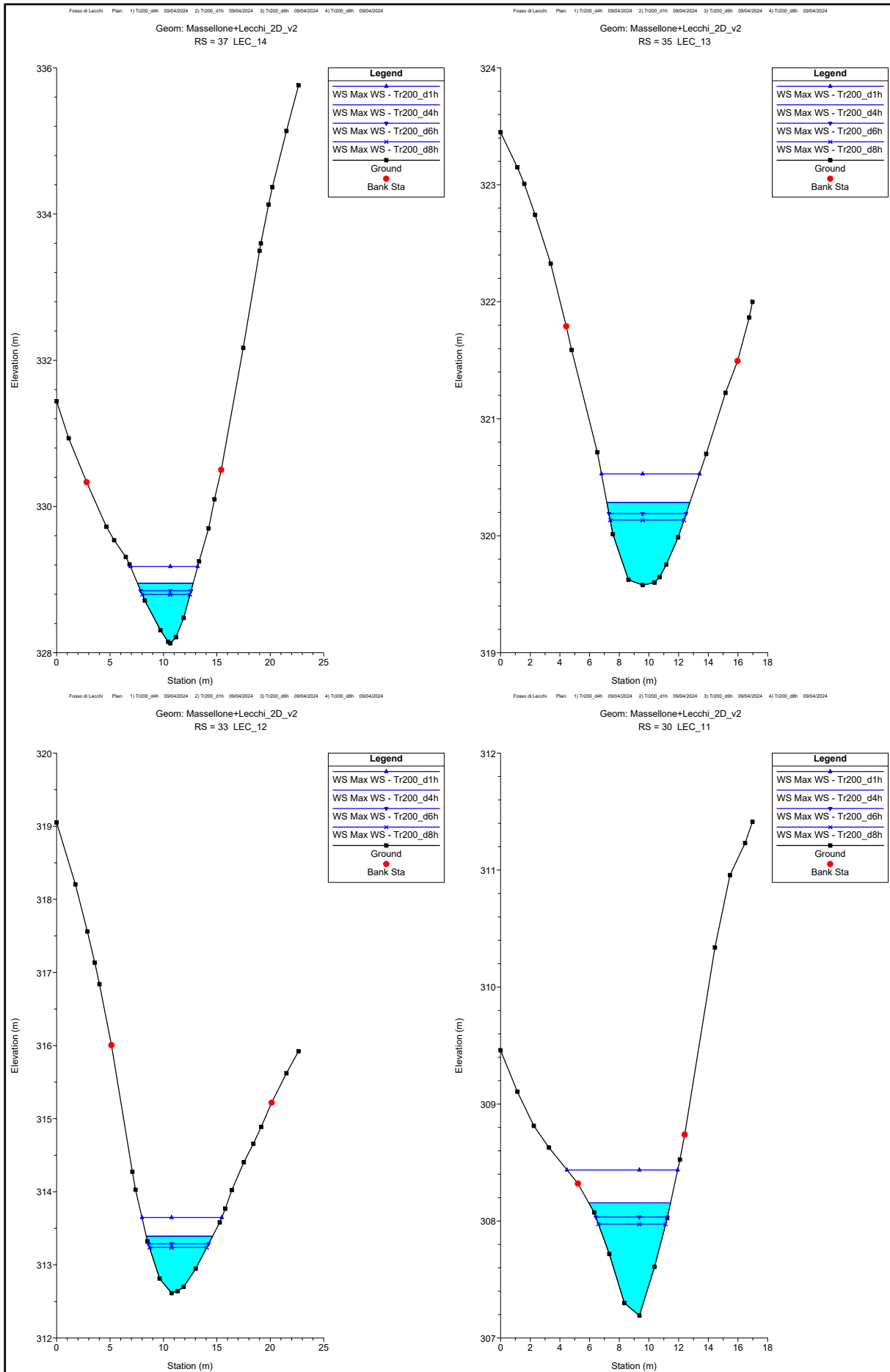


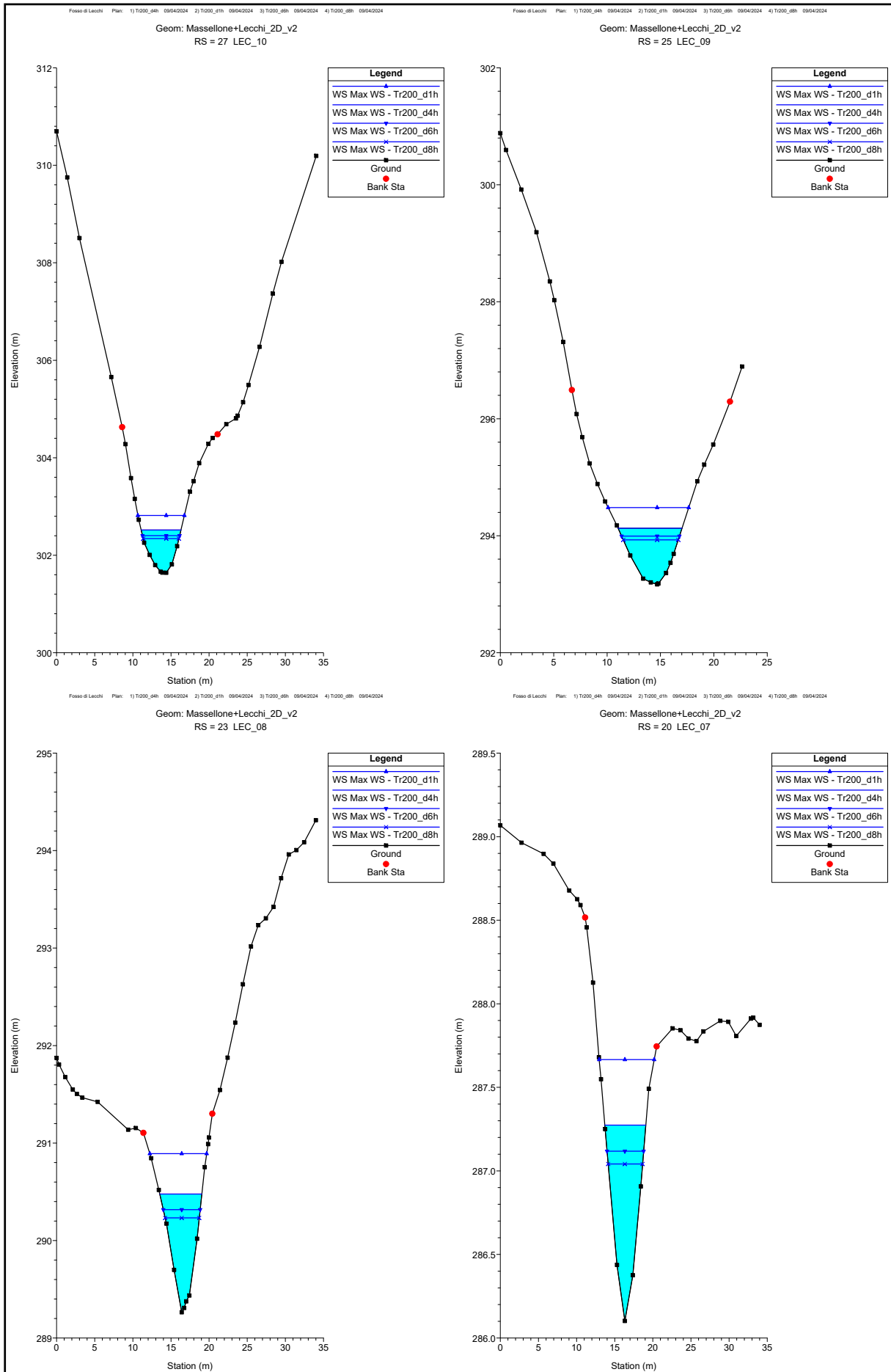


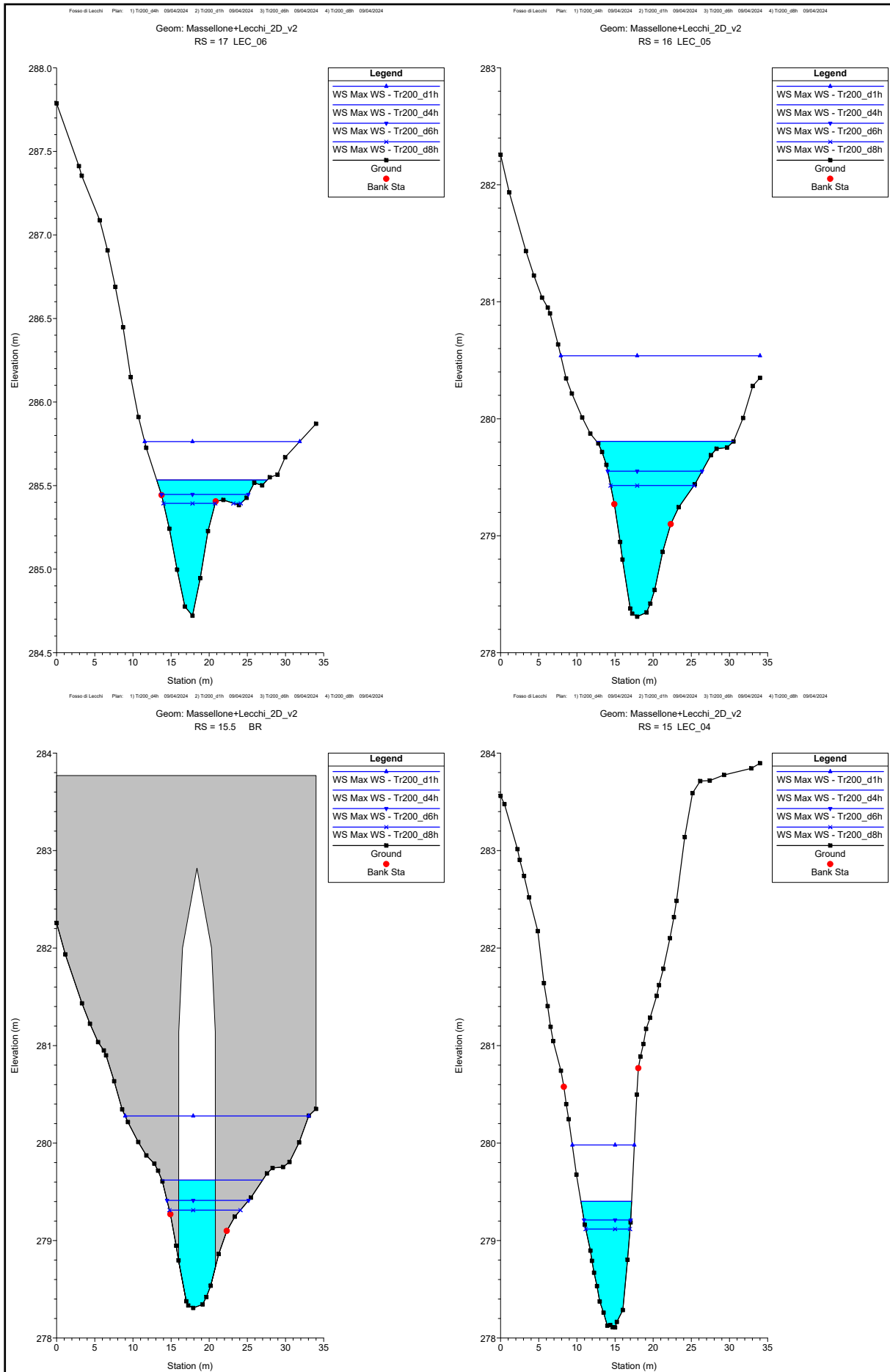


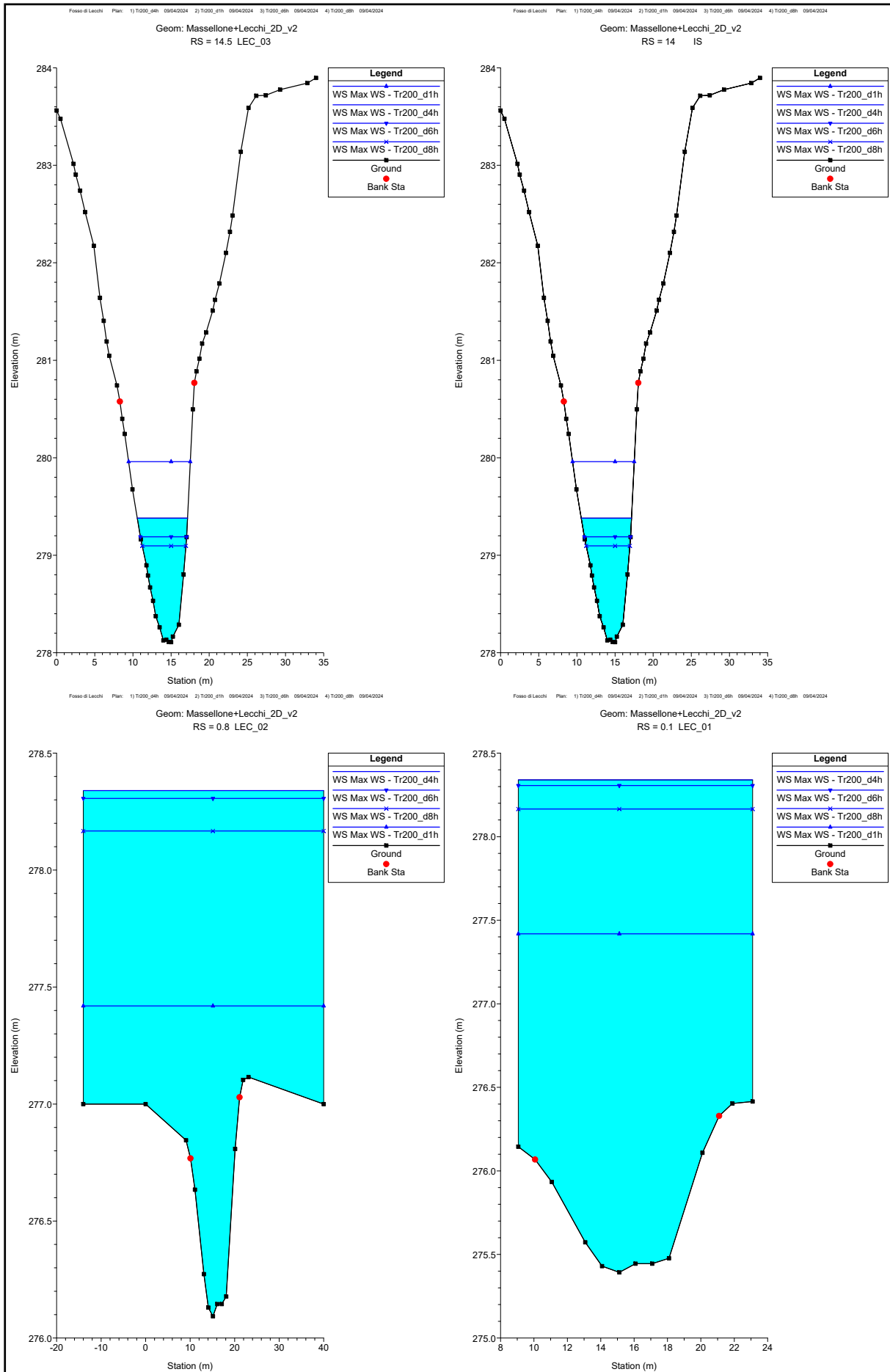












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

LECCHI

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Lecchi	100	Max WS	Tr200_d4h	3.30	428.55	429.61	429.72	429.99	0.078177	2.97	0.73	1.17	1.48	3.73	0.98
Lecchi	100	Max WS	Tr200_d11h	6.37	428.55	429.88	430.04	430.35	0.079944	3.56	1.13	1.52	2.83	6.18	1.03
Lecchi	100	Max WS	Tr200_d6h	2.41	428.55	429.48	429.56	429.82	0.078155	2.70	0.55	1.00	1.08	2.66	0.96
Lecchi	100	Max WS	Tr200_d8h	2.03	428.55	429.42	429.46	429.73	0.076378	2.53	0.51	0.88	0.93	2.18	0.93
Lecchi	97	Max WS	Tr200_d4h	3.30	426.09	426.54	426.68	426.93	0.156195	2.80	0.58	0.52	1.32	7.18	1.68
Lecchi	97	Max WS	Tr200_d11h	6.37	426.09	426.65	426.83	427.25	0.166412	3.60	0.91	0.78	2.32	10.95	1.84
Lecchi	97	Max WS	Tr200_d6h	2.41	426.09	426.49	426.60	426.84	0.186103	2.63	0.35	0.42	0.95	5.76	1.77
Lecchi	97	Max WS	Tr200_d8h	2.03	426.09	426.46	426.56	426.78	0.201539	2.52	0.15	0.35	0.81	4.79	1.80
Lecchi	90.81		Lat Struct												
Lecchi	90.8		Lat Struct												
Lecchi	90	Max WS	Tr200_d4h	3.09	406.84	408.59		408.63	0.005548	1.03	0.36	0.25	4.26	8.78	0.29
Lecchi	90	Max WS	Tr200_d11h	5.72	406.84	408.79		408.87	0.008764	1.42	0.53	0.42	6.33	11.61	0.37
Lecchi	90	Max WS	Tr200_d6h	2.30	406.84	408.51		408.54	0.004228	0.86	0.29	0.19	3.59	7.64	0.25
Lecchi	90	Max WS	Tr200_d8h	1.93	406.84	408.49		408.52	0.003164	0.74	0.24	0.16	3.49	7.44	0.22
Lecchi	89		Culvert												
Lecchi	88	Max WS	Tr200_d4h	3.09	406.40	407.16	407.27	407.54	0.110420	2.73			1.13	2.87	1.39
Lecchi	88	Max WS	Tr200_d11h	5.72	406.40	407.36	407.53	407.88	0.112970	3.21			1.78	3.61	1.46
Lecchi	88	Max WS	Tr200_d6h	2.30	406.40	407.07	407.17	407.41	0.113592	2.56			0.90	2.56	1.38
Lecchi	88	Max WS	Tr200_d8h	1.93	406.40	407.03	407.12	407.33	0.111676	2.44			0.79	2.41	1.36
Lecchi	86.99		Lat Struct												
Lecchi	85	Max WS	Tr200_d4h	3.12	404.12	404.77	404.88	405.18	0.114250	2.86			1.09	2.59	1.41
Lecchi	85	Max WS	Tr200_d11h	6.10	404.12	405.03	405.18	405.58	0.101216	3.29			1.85	3.16	1.37
Lecchi	85	Max WS	Tr200_d6h	2.36	404.12	404.69	404.78	405.04	0.114285	2.64			0.89	2.42	1.39
Lecchi	85	Max WS	Tr200_d8h	1.93	404.12	404.65	404.72	404.95	0.105505	2.43			0.80	2.34	1.33
Lecchi	84.99		Lat Struct												
Lecchi	80	Max WS	Tr200_d4h	3.26	401.73	403.90		403.91	0.001223	0.63	0.21	0.17	7.93	11.78	0.15
Lecchi	80	Max WS	Tr200_d11h	5.47	401.73	404.32		404.34	0.001031	0.67	0.26	0.25	13.30	13.00	0.15
Lecchi	80	Max WS	Tr200_d6h	2.42	401.73	403.61		403.63	0.001544	0.63	0.19	0.19	5.09	7.33	0.17
Lecchi	80	Max WS	Tr200_d8h	2.03	401.73	403.34		403.36	0.002676	0.71	0.18	0.19	3.34	5.40	0.21
Lecchi	78	Max WS	Tr200_d4h	2.49	401.63	403.90		403.91	0.000376	0.36	0.13	0.16	10.74	11.65	0.09
Lecchi	78	Max WS	Tr200_d11h	2.81	401.63	404.34		404.34	0.000170	0.28	0.11	0.13	16.09	13.00	0.06
Lecchi	78	Max WS	Tr200_d6h	2.27	401.63	403.62		403.63	0.000739	0.45	0.15	0.17	7.55	10.59	0.12
Lecchi	78	Max WS	Tr200_d8h	2.03	401.63	403.34		403.36	0.001666	0.60	0.17	0.16	4.74	9.55	0.17
Lecchi	75		Culvert												
Lecchi	72	Max WS	Tr200_d4h	2.49	398.50	399.79		399.96	0.039158	1.84			1.35	1.84	0.69
Lecchi	72	Max WS	Tr200_d11h	2.81	398.50	399.98		400.12	0.027261	1.60			1.76	2.42	0.60
Lecchi	72	Max WS	Tr200_d6h	2.27	398.50	399.71		399.89	0.044586	1.89			1.20	1.75	0.73
Lecchi	72	Max WS	Tr200_d8h	2.03	398.50	399.64		399.82	0.045955	1.86			1.09	1.67	0.74
Lecchi	71.99		Lat Struct												
Lecchi	71.98		Lat Struct												
Lecchi	70	Max WS	Tr200_d4h	3.32	398.37	399.15		399.33	0.038598	1.88			1.76	3.60	0.86
Lecchi	70	Max WS	Tr200_d11h	6.44	398.37	399.36	399.36	399.67	0.048607	2.47	0.27		2.62	4.37	1.00
Lecchi	70	Max WS	Tr200_d6h	2.41	398.37	399.06		399.20	0.034767	1.67			1.44	3.24	0.80
Lecchi	70	Max WS	Tr200_d8h	2.03	398.37	399.01		399.14	0.032391	1.56			1.30	3.07	0.77
Lecchi	65	Max WS	Tr200_d4h	3.30	398.00	398.47	398.56	398.77	0.124238	2.44			1.35	4.94	1.49
Lecchi	65	Max WS	Tr200_d11h	6.41	398.00	398.62	398.75	399.05	0.128839	2.93			2.19	6.26	1.58
Lecchi	65	Max WS	Tr200_d6h	2.41	398.00	398.40	398.48	398.67	0.132529	2.30			1.05	4.42	1.51
Lecchi	65	Max WS	Tr200_d8h	2.03	398.00	398.37	398.45	398.62	0.133007	2.20			0.93	4.18	1.49
Lecchi	60	Max WS	Tr200_d4h	3.30	393.65	393.97	394.02	394.19	0.093735	2.06			1.60	6.15	1.29
Lecchi	60	Max WS	Tr200_d11h	6.40	393.65	394.12	394.20	394.44	0.087959	2.49			2.57	7.05	1.32
Lecchi	60	Max WS	Tr200_d6h	2.41	393.65	393.92	393.96	394.10	0.103409	1.92			1.26	5.80	1.32
Lecchi	60	Max WS	Tr200_d8h	2.03	393.65	393.89	393.93	394.06	0.110105	1.85			1.10	5.63	1.34
Lecchi	57	Max WS	Tr200_d4h	3.88	383.31	383.79	383.82	384.00	0.070956	2.05			1.89	5.88	1.16
Lecchi	57	Max WS	Tr200_d11h	6.75	383.31	383.92	383.99	384.23	0.076164	2.47			2.74	6.81	1.24
Lecchi	57	Max WS	Tr200_d6h	2.83	383.31	383.72	383.74	383.90	0.072016	1.88			1.50	5.41	1.14
Lecchi	57	Max WS	Tr200_d8h	2.38	383.31	383.69	383.71	383.85	0.070961	1.78			1.34	5.20	1.12
Lecchi	56	Max WS	Tr200_d4h	4.23	376.04	376.76	376.80	377.03	0.063740	2.30			1.84	4.27	1.12
Lecchi	56	Max WS	Tr200_d11h	6.98	376.04	376.93	377.00	377.29	0.068273	2.63			2.65	5.31	1.19
Lecchi	56	Max WS	Tr200_d6h	3.08	376.04	376.67	376.69	376.90	0.060443	2.09			1.47	3.81	1.07
Lecchi	56	Max WS	Tr200_d8h	2.59	376.04	376.63	376.64	376.83	0.059613	1.98			1.30	3.61	1.05
Lecchi	55	Max WS	Tr200_d4h	4.58	370.11	370.84	370.85	371.08	0.054605	2.19			2.10	4.72	1.05
Lecchi	55	Max WS	Tr200_d11h	7.25	370.11	370.99	371.03	371.32	0.058557	2.55			2.85	5.34	1.11
Lecchi	55	Max WS	Tr200_d6h	3.33	370.11	370.75	370.75	370.94	0.052501	1.97			1.69	4.35	1.01
Lecchi	55	Max WS	Tr200_d8h	2.80	370.11	370.71	370.70	370.88	0.050400	1.84			1.52	4.18	0.98
Lecchi	54	Max WS	Tr200_d4h	4.93	365.00	365.53	365.52	365.66	0.050271	1.59	0.21		3.11	11.31	0.96
Lecchi	54	Max WS	Tr200_d11h	7.54	365.00	365.61	365.61	365.79	0.050340	1.87	0.37	0.16	4.07	11.87	1.00
Lecchi	54	Max WS	Tr200_d6h	3.59	365.00	365.49		365.58	0.046173	1.37	0.09		2.61	10.98	0.90
Lecchi	54	Max WS	Tr200_d8h	3.01	365.00	365.47		365.55	0.042283	1.25			2.41	10.84	0.85
Lecchi	53	Max WS	Tr200_d4h	5.28	358.64	359.43		359.60	0.035556	1.84			2.88	6.20	0.86
Lecchi	53	Max WS	Tr200_d11h	8.18	358.64	359.56	359.53	359.81	0.041703	2.22			3.69	6.69	0.95
Lecchi	53	Max WS	Tr200_d6h	3.84	358.64	359.35		359.48	0.032436	1.62			2.38	5.81	0.81
Lecchi	53	Max WS	Tr200_d8h	3.22	358.64	359.30		359.42	0.031208	1.51			2.13	5.57	0.78
Lecchi	50	Max WS	Tr200_d4h	5.70	353.87	354.96	354.54	355.02	0.007683	1.15			4.95	6.51	0.42
Lecchi	50	Max WS	Tr200_d11h	9.04	353.87	355.36	354.74	355.43	0.005436	1.15			7.88	7.94	0.37
Lecchi	50	Max WS	Tr200_d6h	4.14	353.87	354.74	354.43	354.81	0.009469	1.14			3.65	5.77	0.46
Lecchi	50	Max WS	Tr200_d8h	3.46	353.87	354.64	354.38	354.71	0.010536	1.12			3.09	5.43	0.47
Lecchi	49		Bridge												
Lecchi	48	Max WS	Tr200_d4h	5.70	353.27	353.89	353.94	354.21	0.068456	2.51			2.27	4.88	1.18
Lecchi	48	Max WS	Tr200_d11h	9.04	353.27	354.05	354.14	354.48	0.068988	2.89			3.13	5.46	1.12
Lecchi	48	Max WS	Tr200_d6h	4.14	353.27	353.79	353.83	354.05	0.070256	2.30			1.80	4.54	1.17
Lecchi	48	Max WS	Tr200_d8h	3.46	353.27	353.74	353.78	353.98	0.068610	2.16			1.61	4.39	1.14
Lecchi	45	Max WS	Tr200_d4h	6.19	346.06	346.80	346.82	347.07	0.055735	2.29			2.71	5.89	1.08

HEC-RAS River: Lecchi Reach: Lecchi 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
Lecchi	45	Max WS	Tr200_d1h	10.22	346.06	346.99	347.03	347.34	0.054722	2.62			3.90	6.79	1.10
Lecchi	45	Max WS	Tr200_d6h	4.49	346.06	346.70	346.72	346.93	0.056792	2.09			2.14	5.41	1.06
Lecchi	45	Max WS	Tr200_d8h	3.75	346.06	346.65	346.67	346.86	0.056993	1.99			1.88	5.15	1.05
Lecchi	43	Max WS	Tr200_d4h	6.54	342.35	342.90	342.97	343.18	0.088960	2.35			2.78	8.42	1.31
Lecchi	43	Max WS	Tr200_d1h	11.19	342.35	343.04	343.14	343.42	0.088122	2.72			4.12	9.98	1.35
Lecchi	43	Max WS	Tr200_d6h	4.74	342.35	342.83	342.88	343.06	0.090048	2.14			2.21	7.79	1.29
Lecchi	43	Max WS	Tr200_d8h	3.96	342.35	342.79	342.84	343.00	0.090956	2.04			1.95	7.48	1.27
Lecchi	40	Max WS	Tr200_d4h	6.89	336.20	336.75	336.87	337.16	0.100705	2.80			2.46	6.21	1.42
Lecchi	40	Max WS	Tr200_d1h	12.16	336.20	336.93	337.10	337.50	0.101697	3.35			3.63	7.05	1.49
Lecchi	40	Max WS	Tr200_d6h	4.99	336.20	336.67	336.76	337.00	0.100010	2.53			1.97	5.78	1.39
Lecchi	40	Max WS	Tr200_d8h	4.17	336.20	336.64	336.71	336.92	0.097966	2.38			1.75	5.58	1.36
Lecchi	37	Max WS	Tr200_d4h	7.25	328.13	328.95	329.07	329.39	0.090653	2.94			2.46	5.20	1.37
Lecchi	37	Max WS	Tr200_d1h	13.12	328.13	329.18	329.37	329.79	0.092669	3.47			3.78	6.29	1.43
Lecchi	37	Max WS	Tr200_d6h	5.24	328.13	328.85	328.94	329.21	0.088700	2.67			1.96	4.72	1.32
Lecchi	37	Max WS	Tr200_d8h	4.38	328.13	328.80	328.88	329.13	0.088891	2.55			1.72	4.48	1.31
Lecchi	35	Max WS	Tr200_d4h	7.60	319.58	320.28	320.38	320.69	0.080113	2.81			2.70	5.60	1.29
Lecchi	35	Max WS	Tr200_d1h	14.09	319.58	320.53	320.68	321.11	0.080604	3.36			4.19	6.61	1.35
Lecchi	35	Max WS	Tr200_d6h	5.50	319.58	320.19	320.26	320.51	0.076526	2.52			2.18	5.20	1.24
Lecchi	35	Max WS	Tr200_d8h	4.59	319.58	320.13	320.20	320.43	0.079135	2.41			1.90	4.97	1.25
Lecchi	33	Max WS	Tr200_d4h	7.95	312.61	313.39	313.47	313.76	0.072472	2.68			2.97	6.21	1.24
Lecchi	33	Max WS	Tr200_d1h	15.05	312.61	313.65	313.77	314.17	0.071979	3.19			3.78	7.46	1.28
Lecchi	33	Max WS	Tr200_d6h	5.75	312.61	313.29	313.35	313.59	0.072819	2.45			2.35	5.65	1.21
Lecchi	33	Max WS	Tr200_d8h	4.80	312.61	313.24	313.29	313.51	0.071672	2.32			2.07	5.36	1.19
Lecchi	30	Max WS	Tr200_d4h	8.30	307.19	308.16	308.25	308.56	0.072755	2.83			2.94	5.51	1.24
Lecchi	30	Max WS	Tr200_d1h	16.02	307.19	308.44	308.59	309.03	0.073758	3.41	0.40		4.74	7.46	1.30
Lecchi	30	Max WS	Tr200_d6h	6.00	307.19	308.03	308.11	308.38	0.070996	2.60			2.31	4.82	1.20
Lecchi	30	Max WS	Tr200_d8h	5.01	307.19	307.97	308.03	308.29	0.070137	2.47			2.02	4.53	1.18
Lecchi	27	Max WS	Tr200_d4h	8.66	301.64	302.52	302.60	302.94	0.069074	2.89			3.00	5.22	1.22
Lecchi	27	Max WS	Tr200_d1h	16.98	301.64	302.82	302.98	303.48	0.075197	3.62			4.69	6.10	1.32
Lecchi	27	Max WS	Tr200_d6h	6.25	301.64	302.40	302.46	302.74	0.066105	2.58			2.42	4.87	1.17
Lecchi	27	Max WS	Tr200_d8h	5.22	301.64	302.34	302.39	302.65	0.066784	2.45			2.13	4.69	1.16
Lecchi	25	Max WS	Tr200_d4h	9.01	293.17	294.13	294.14	294.45	0.047958	2.50			3.60	5.99	1.03
Lecchi	25	Max WS	Tr200_d1h	17.95	293.17	294.48	294.52	294.94	0.048199	3.00			5.99	7.55	1.07
Lecchi	25	Max WS	Tr200_d6h	6.51	293.17	293.99	294.00	294.26	0.048485	2.30			2.83	5.42	1.01
Lecchi	25	Max WS	Tr200_d8h	5.43	293.17	293.93	293.93	294.17	0.047874	2.17			2.50	5.15	1.00
Lecchi	23	Max WS	Tr200_d4h	9.36	289.26	290.48	290.47	290.80	0.044868	2.53			3.70	5.52	0.99
Lecchi	23	Max WS	Tr200_d1h	18.90	289.26	290.89	290.91	291.34	0.044579	2.97			6.37	7.47	1.03
Lecchi	23	Max WS	Tr200_d6h	6.76	289.26	290.32	290.30	290.60	0.045639	2.36			2.87	4.83	0.98
Lecchi	23	Max WS	Tr200_d8h	5.64	289.26	290.23	290.22	290.50	0.046722	2.28			2.47	4.47	0.98
Lecchi	20	Max WS	Tr200_d4h	9.71	286.10	287.27	287.31	287.65	0.051753	2.72			3.58	5.38	1.06
Lecchi	20	Max WS	Tr200_d1h	19.86	286.10	287.67	287.75	288.23	0.057172	3.31			6.00	7.22	1.16
Lecchi	20	Max WS	Tr200_d6h	7.01	286.10	287.12	287.14	287.44	0.053364	2.52			2.78	4.80	1.06
Lecchi	20	Max WS	Tr200_d8h	5.84	286.10	287.04	287.06	287.34	0.053881	2.41			2.42	4.52	1.05
Lecchi	17	Max WS	Tr200_d4h	9.71	284.72	285.53	285.65	285.90	0.071854	2.72	0.34	0.55	4.09	14.48	1.25
Lecchi	17	Max WS	Tr200_d1h	20.23	284.72	285.76	285.93	286.27	0.066720	3.40	0.77	1.01	8.13	20.32	1.28
Lecchi	17	Max WS	Tr200_d6h	7.01	284.72	285.45	285.53	285.75	0.076033	2.46	0.04	0.33	3.01	11.39	1.24
Lecchi	17	Max WS	Tr200_d8h	5.84	284.72	285.39	285.48	285.68	0.080683	2.38		0.09	2.46	7.74	1.26
Lecchi	16	Max WS	Tr200_d4h	9.71	278.31	279.81	279.18	279.86	0.003265	1.04	0.20	0.25	11.55	17.94	0.30
Lecchi	16	Max WS	Tr200_d1h	20.68	278.31	280.54	279.58	280.59	0.001935	1.10	0.31	0.39	28.23	26.10	0.25
Lecchi	16	Max WS	Tr200_d6h	7.01	278.31	279.55	279.05	279.60	0.004143	0.99	0.17	0.23	7.85	12.38	0.33
Lecchi	16	Max WS	Tr200_d8h	5.84	278.31	279.43	278.99	279.48	0.004779	0.97	0.12	0.19	6.42	10.94	0.35
Lecchi	15.5		Bridge												
Lecchi	15	Max WS	Tr200_d4h	9.71	278.11	279.40		279.55	0.015182	1.72			5.65	6.65	0.60
Lecchi	15	Max WS	Tr200_d1h	20.67	278.11	279.98		280.20	0.014310	2.08			9.93	8.13	0.60
Lecchi	15	Max WS	Tr200_d6h	7.01	278.11	279.21		279.34	0.015665	1.58			4.43	6.12	0.59
Lecchi	15	Max WS	Tr200_d8h	5.84	278.11	279.12		279.23	0.015775	1.51			3.87	5.81	0.59
Lecchi	14.5	Max WS	Tr200_d4h	9.71	278.11	279.38	279.10	279.54	0.016261	1.76			5.51	6.59	0.62
Lecchi	14.5	Max WS	Tr200_d1h	20.68	278.11	279.96	279.56	280.19	0.014962	2.12			9.77	8.08	0.61
Lecchi	14.5	Max WS	Tr200_d6h	7.01	278.11	279.19	278.95	279.32	0.017062	1.63			4.29	6.06	0.62
Lecchi	14.5	Max WS	Tr200_d8h	5.84	278.11	279.10	278.87	279.22	0.017225	1.56			3.75	5.73	0.62
Lecchi	14		Inl Struct												
Lecchi	0.8	Max WS	Tr200_d4h	1.36	276.09	278.34		278.34	0.000001	0.03	0.01	0.01	78.87	54.00	0.01
Lecchi	0.8	Max WS	Tr200_d1h	1.07	276.09	277.42		277.42	0.000014	0.06	0.02	0.02	29.14	54.00	0.02
Lecchi	0.8	Max WS	Tr200_d6h	2.83	276.09	278.31		278.31	0.000006	0.06	0.03	0.03	77.04	54.00	0.01
Lecchi	0.8	Max WS	Tr200_d8h	4.79	276.09	278.17		278.17	0.000023	0.12	0.05	0.05	69.53	54.00	0.03
Lecchi	0.1	Max WS	Tr200_d4h	1.35	275.39	278.34		278.34	0.000002	0.04	0.01	0.01	35.41	14.04	0.01
Lecchi	0.1	Max WS	Tr200_d1h	1.07	275.39	277.42		277.42	0.000005	0.05	0.02	0.02	22.48	14.04	0.01
Lecchi	0.1	Max WS	Tr200_d6h	2.79	275.39	278.31		278.31	0.000008	0.09	0.02	0.03	34.93	14.04	0.02
Lecchi	0.1	Max WS	Tr200_d8h	4.73	275.39	278.17		278.17	0.000029	0.16	0.04	0.05	32.97	14.04	0.03

ALLEGATI

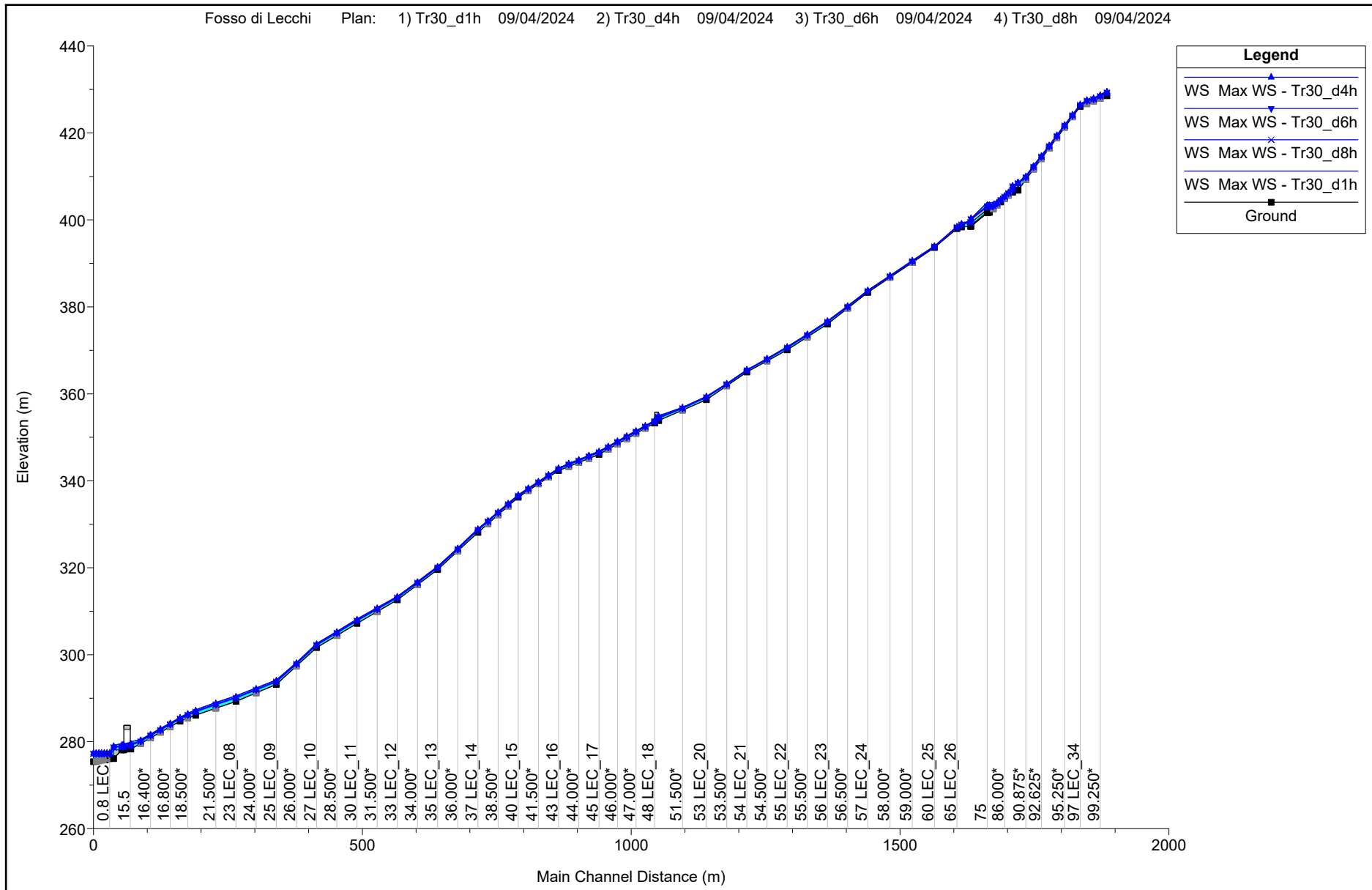
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

LECCHI

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale



ALLEGATI

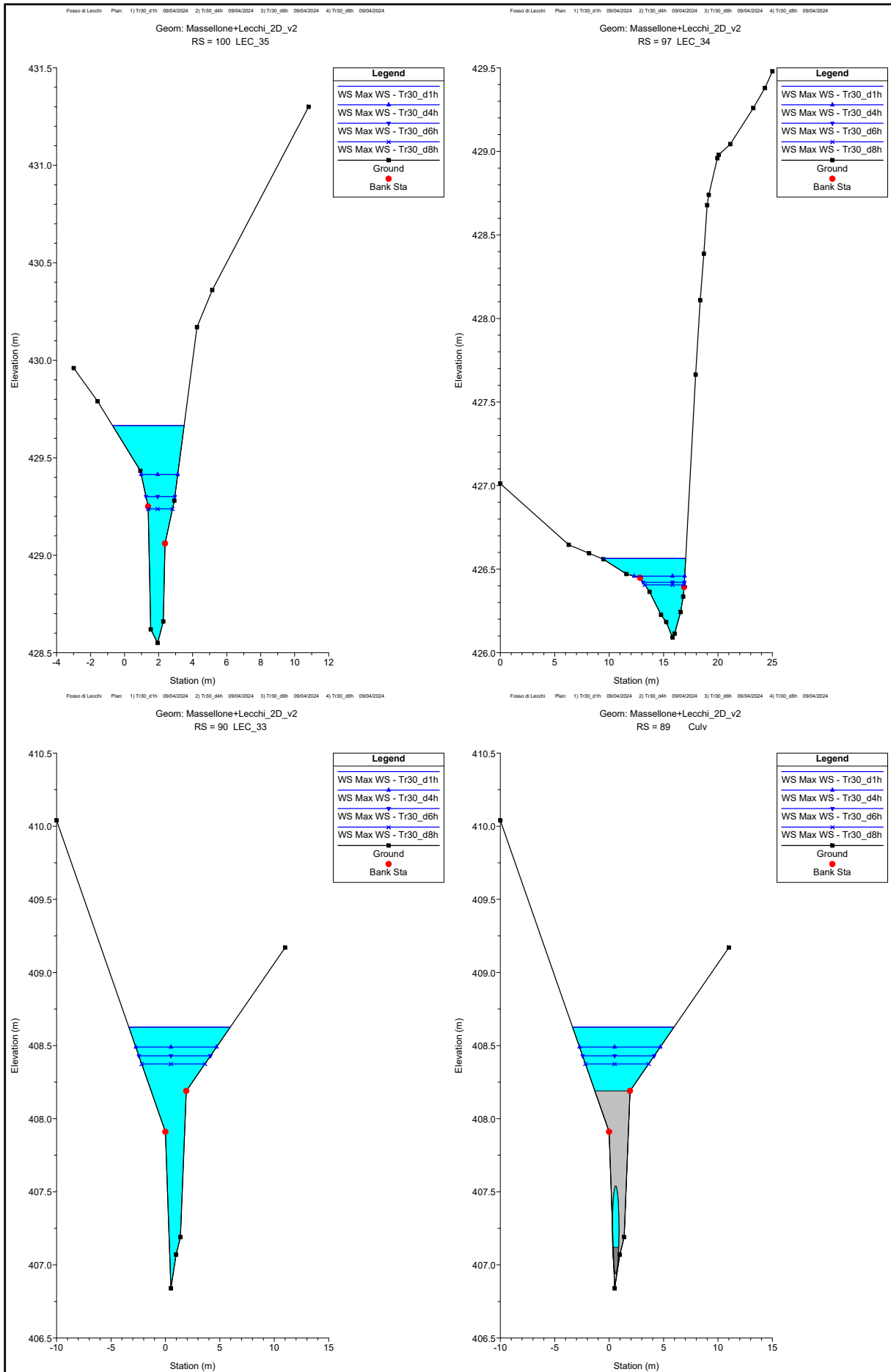
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

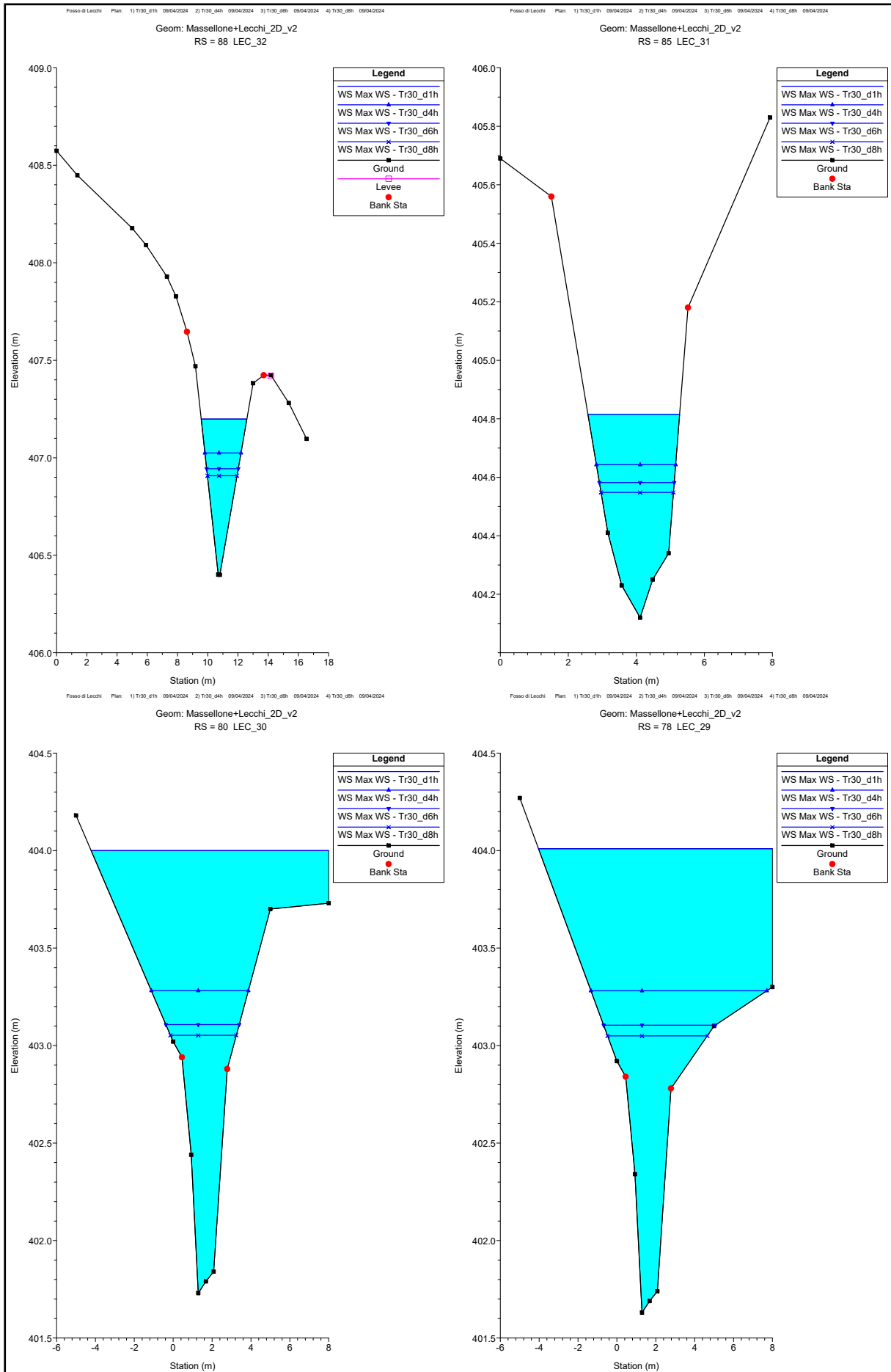
LECCHI

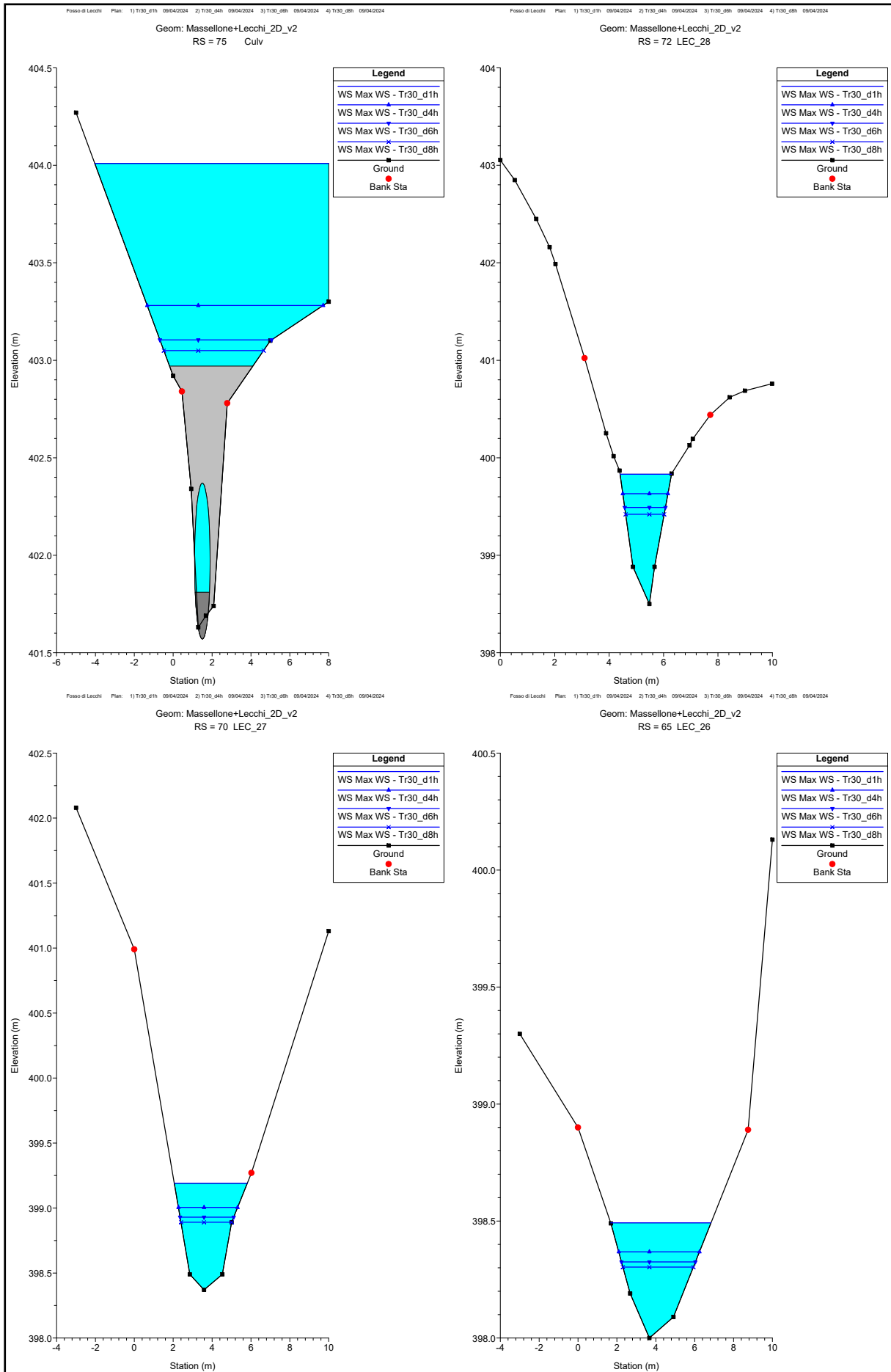
MODELLAZIONE PER TR= 30 anni

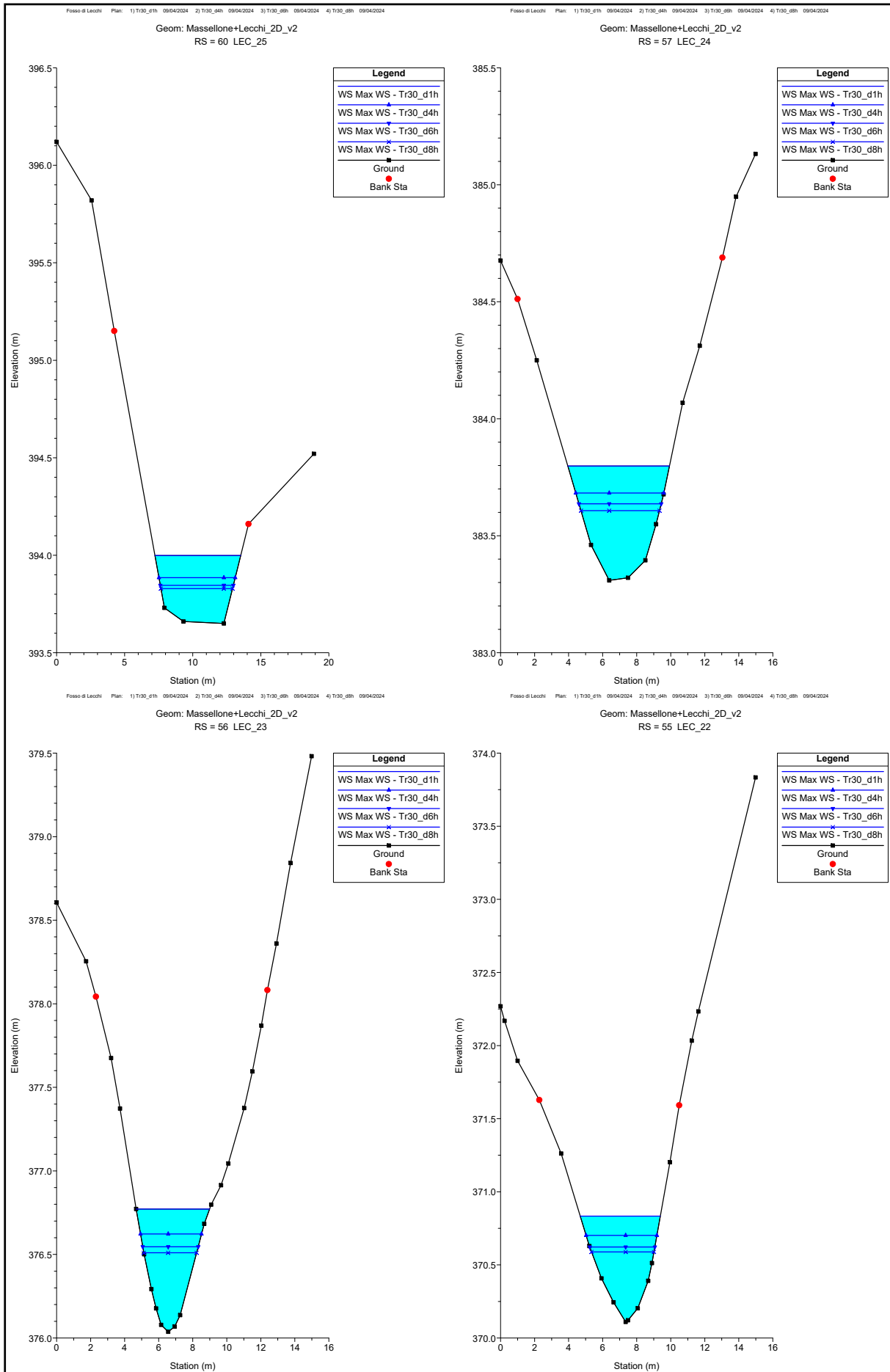
DURATE DI PIOGGIA: 1, 4, 6 e 8 h

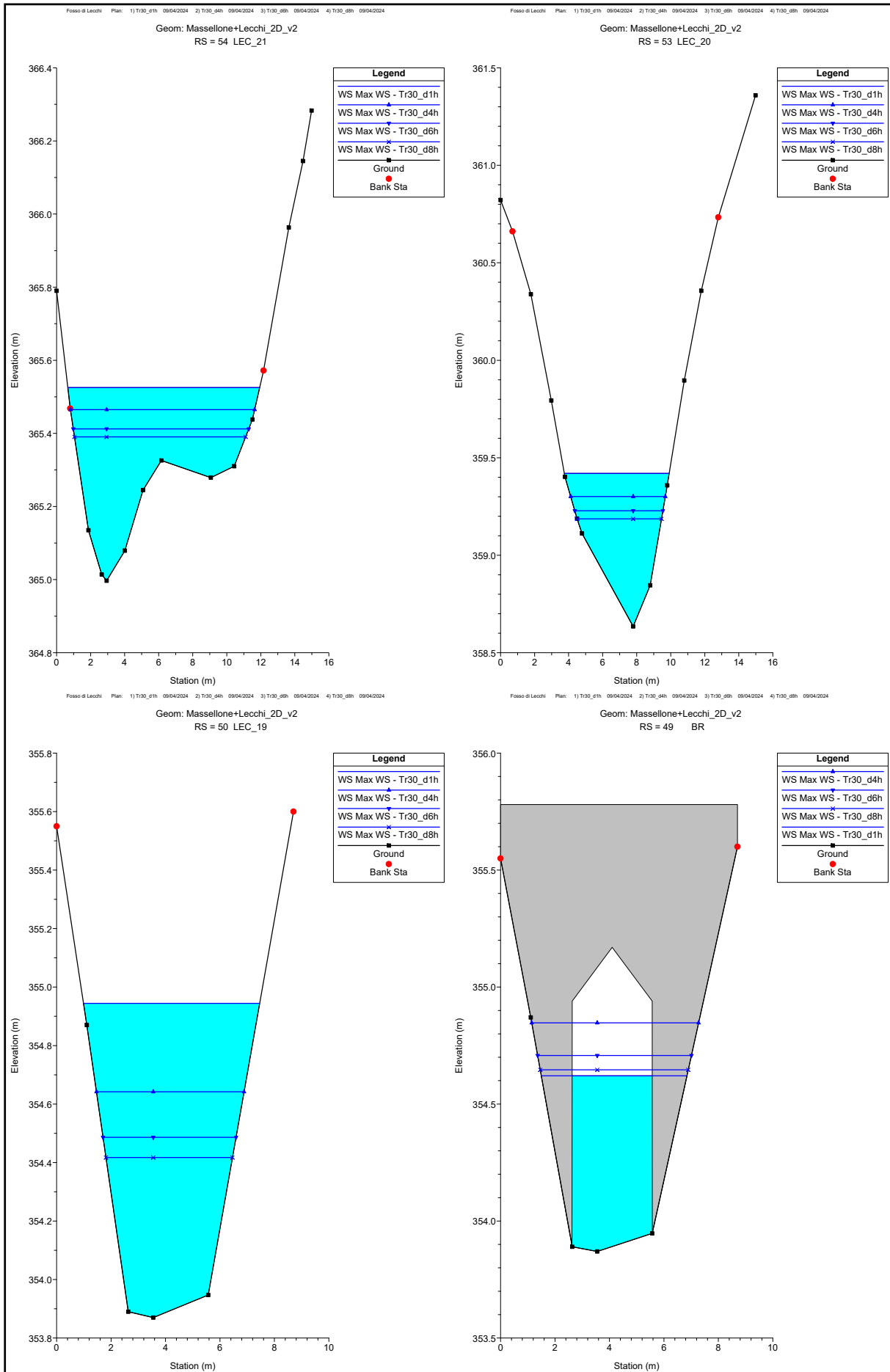
Sezioni Trasversali (da monte verso valle)

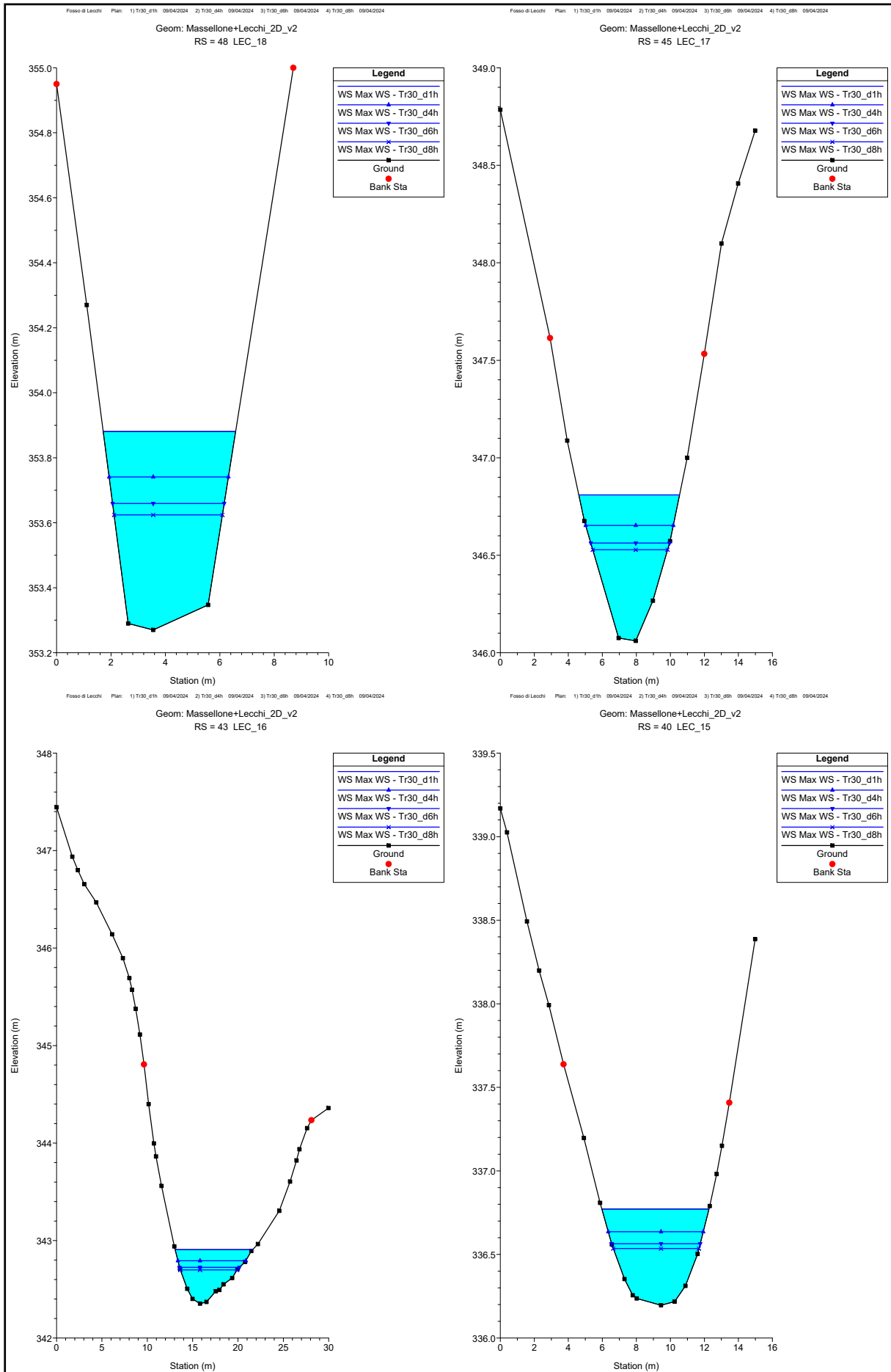


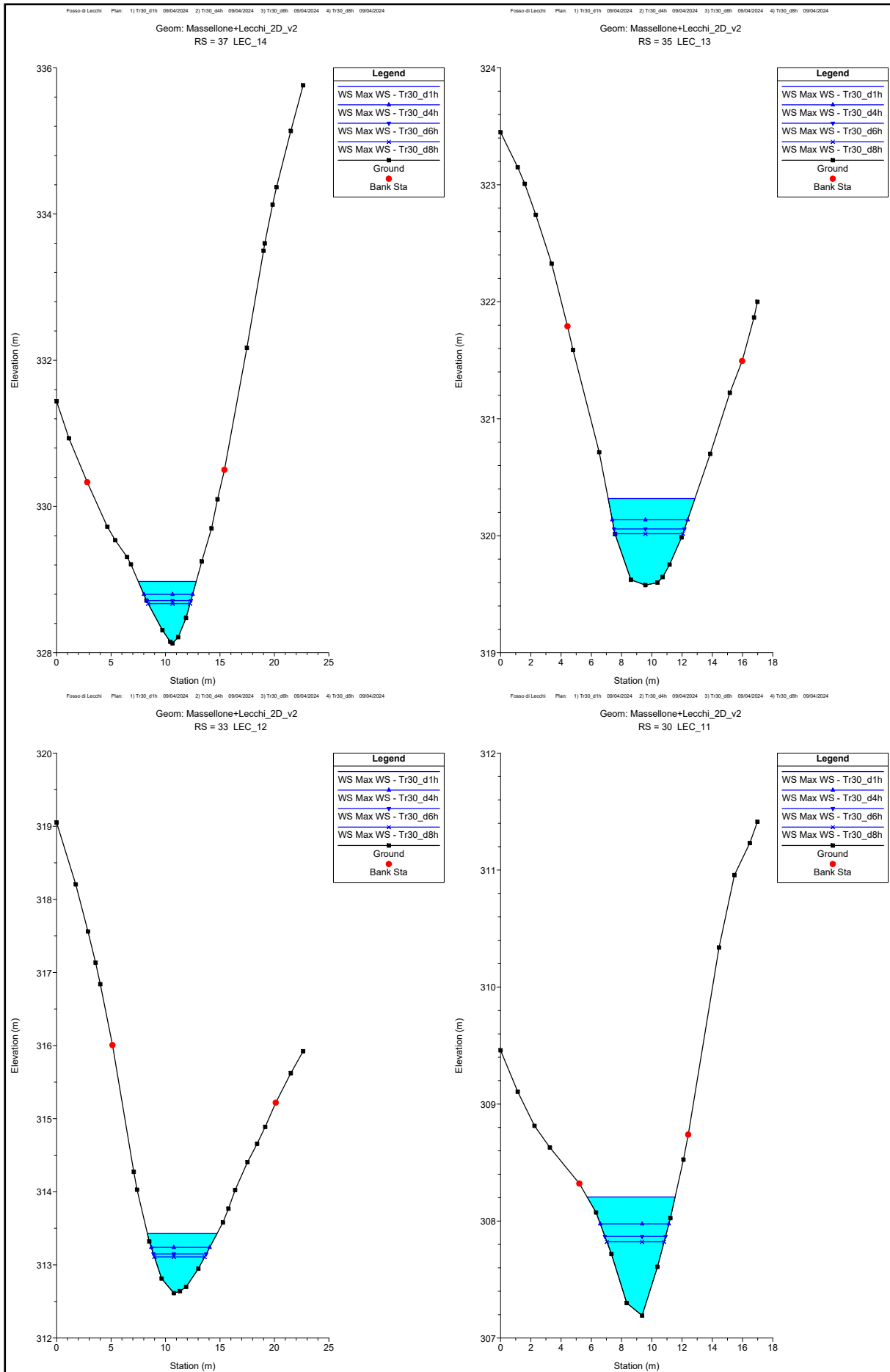


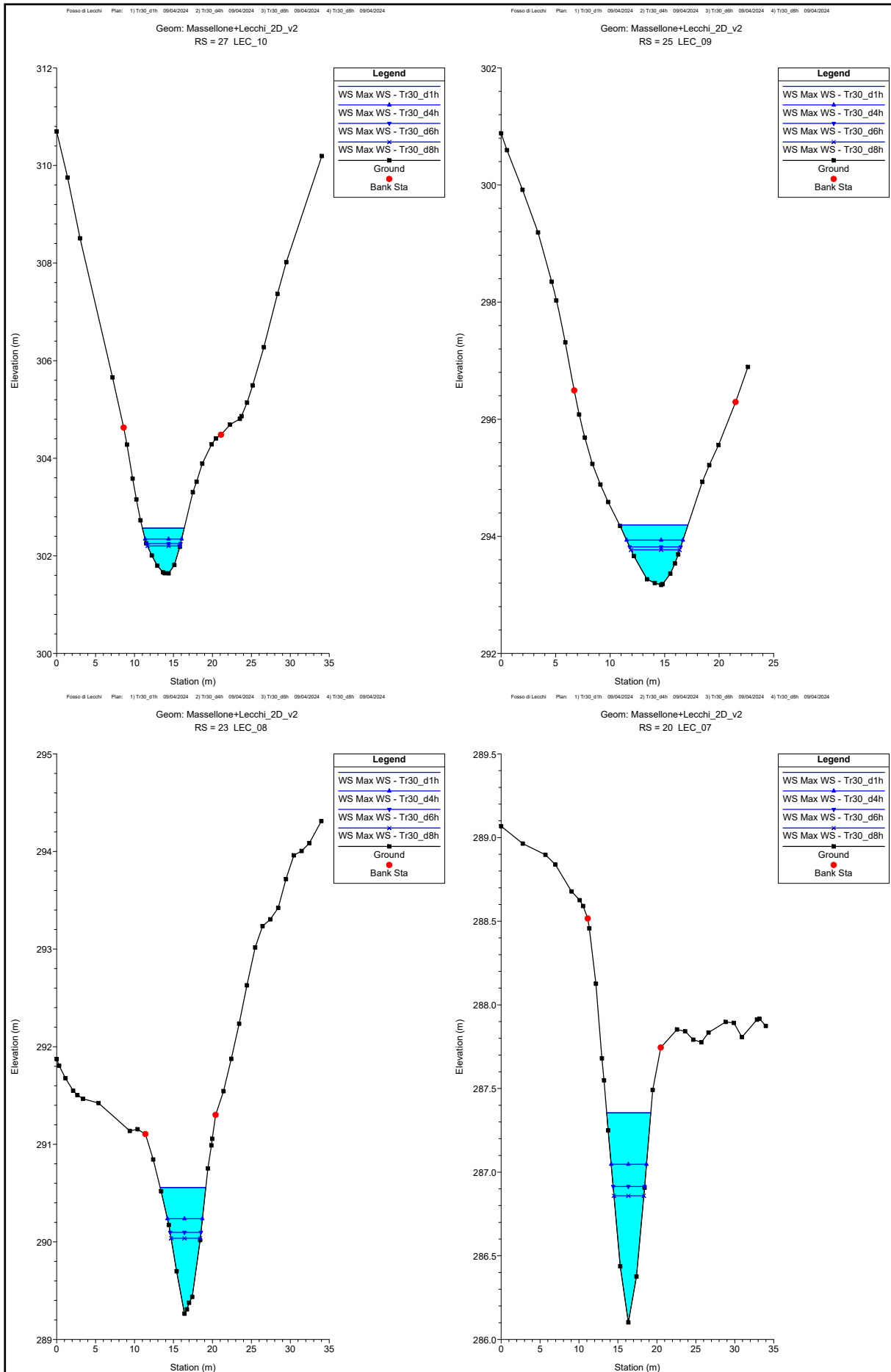


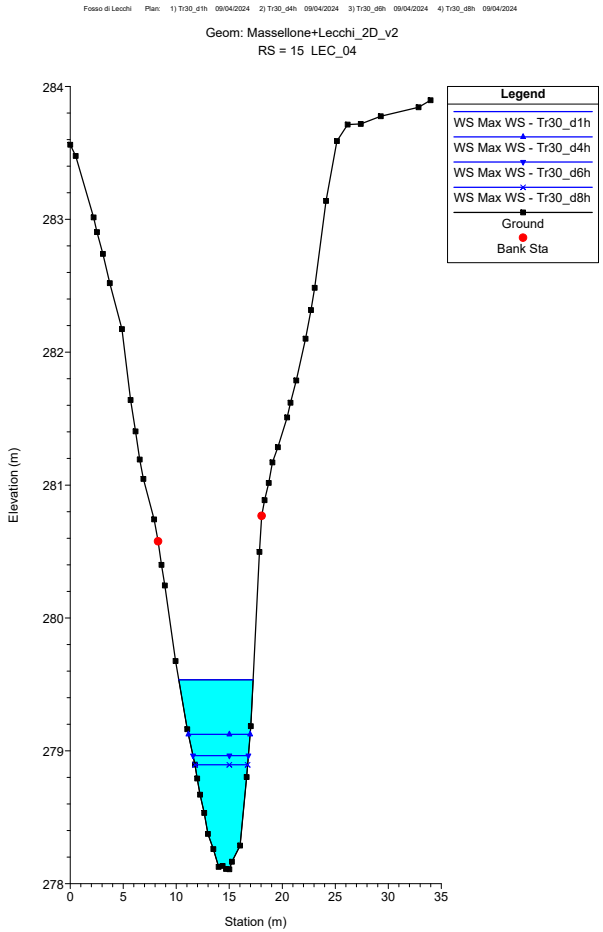
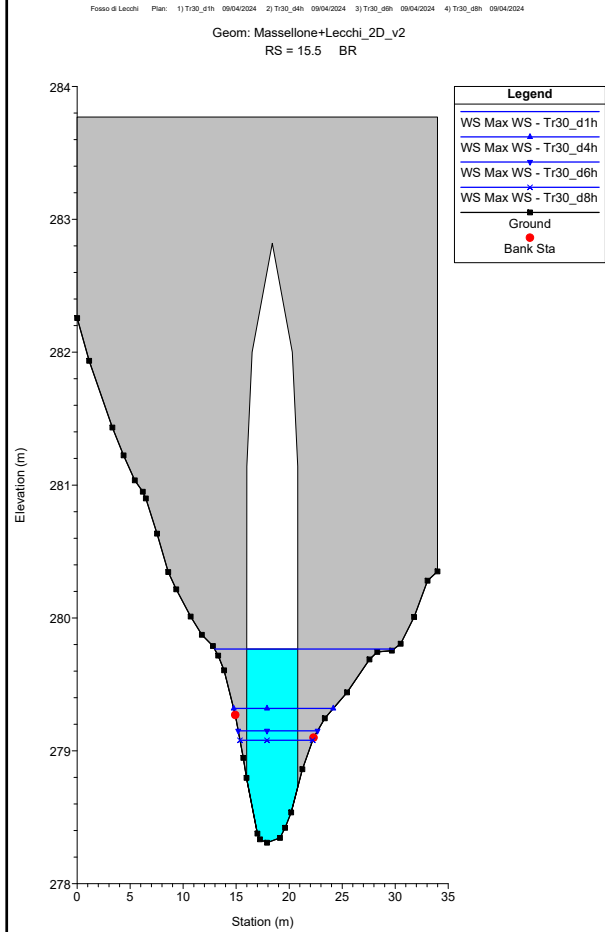
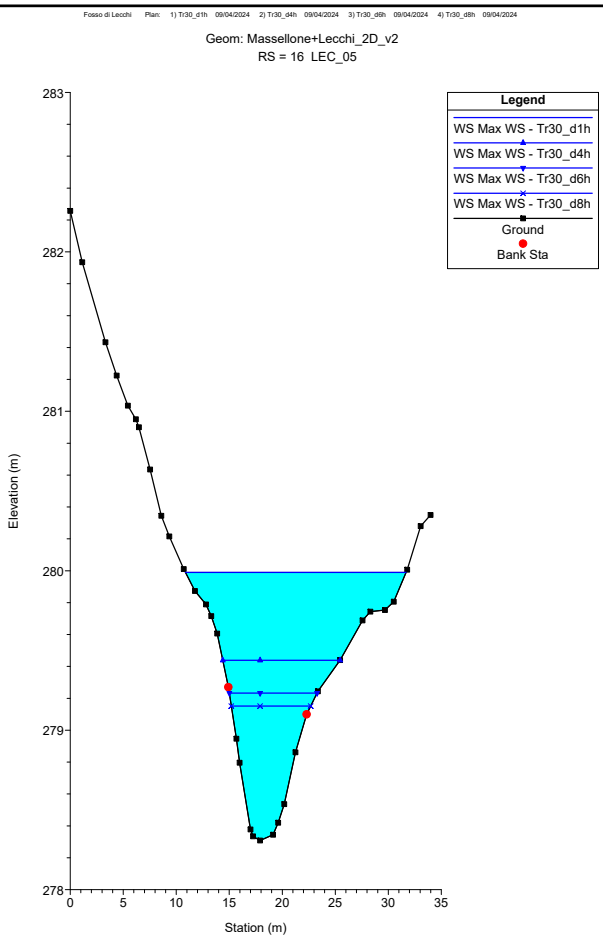
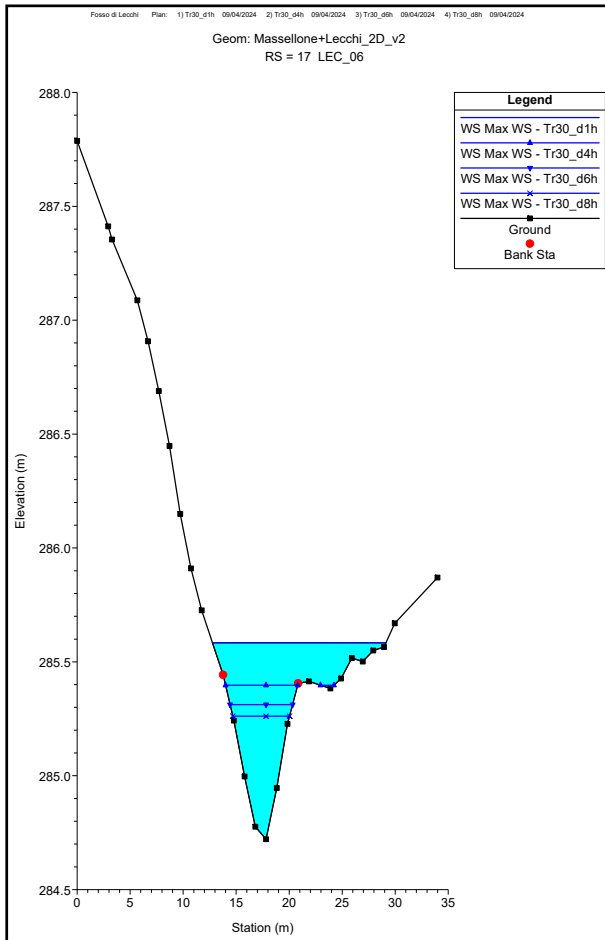


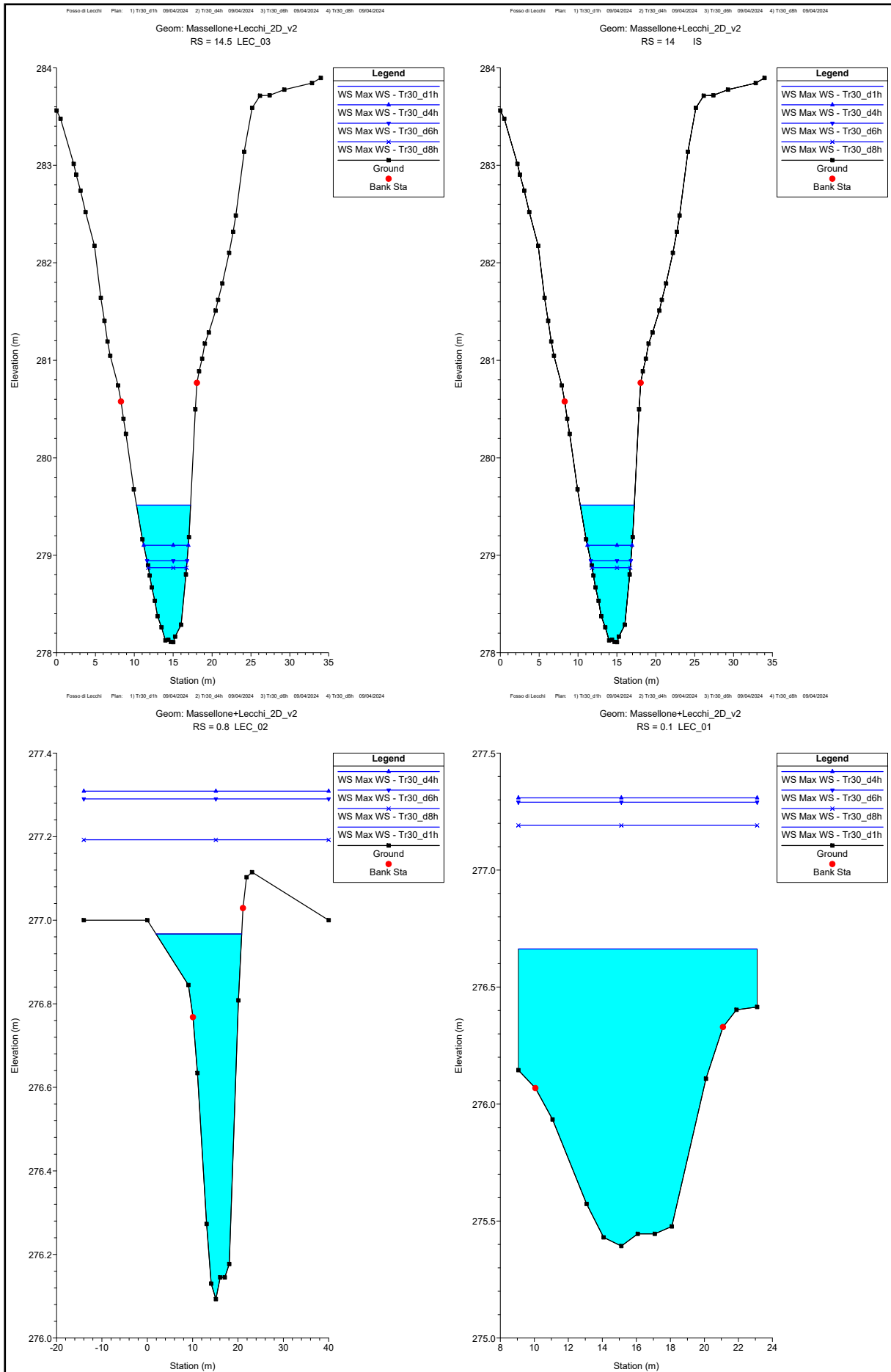












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

LECCHI

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

MASSELLONE

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

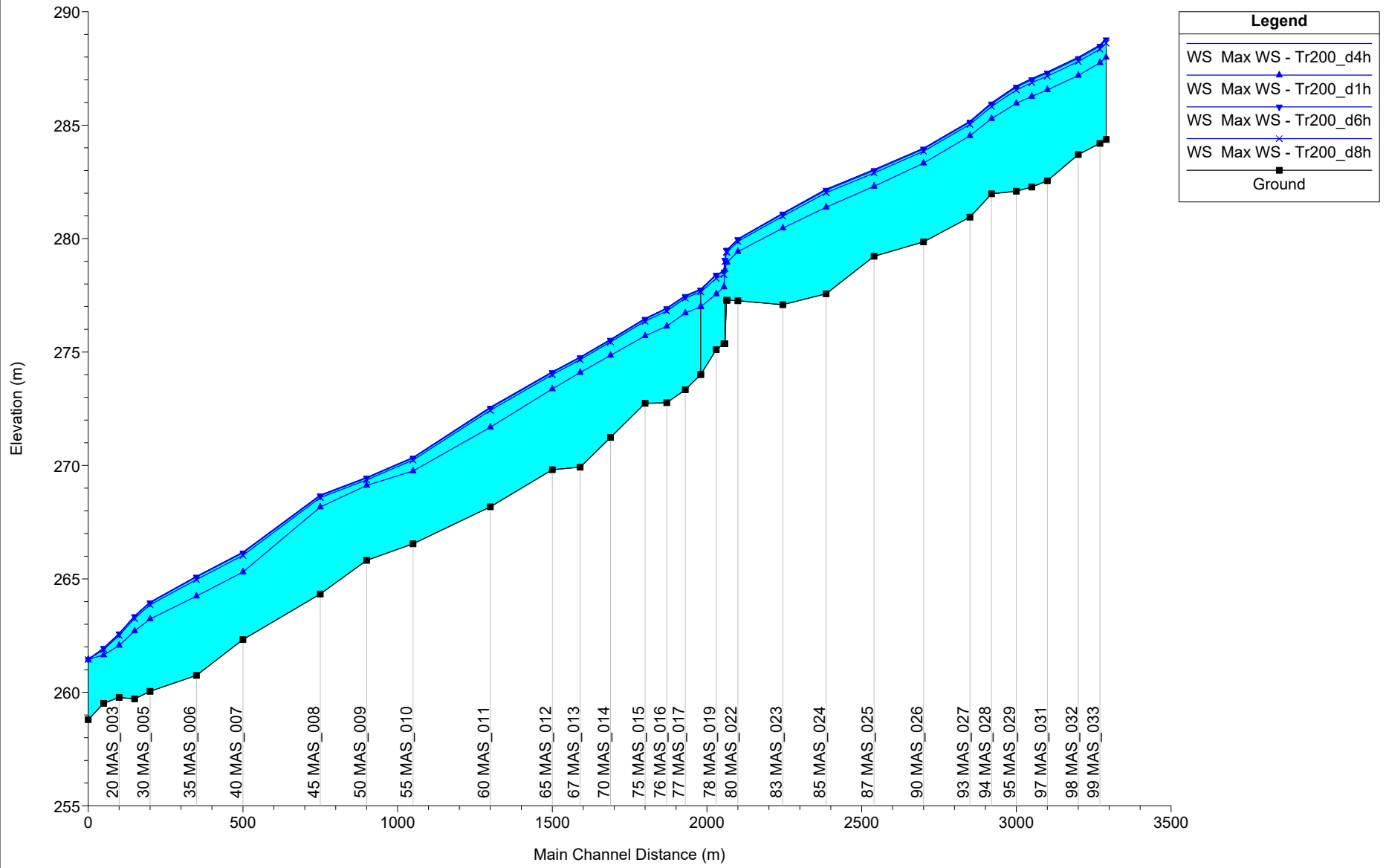
MASSELLONE

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale

Fosso di Lecchi Plan: 1) Tr200_d4h 09/04/2024 2) Tr200_d1h 09/04/2024 3) Tr200_d6h 09/04/2024 4) Tr200_d8h 09/04/2024



ALLEGATI

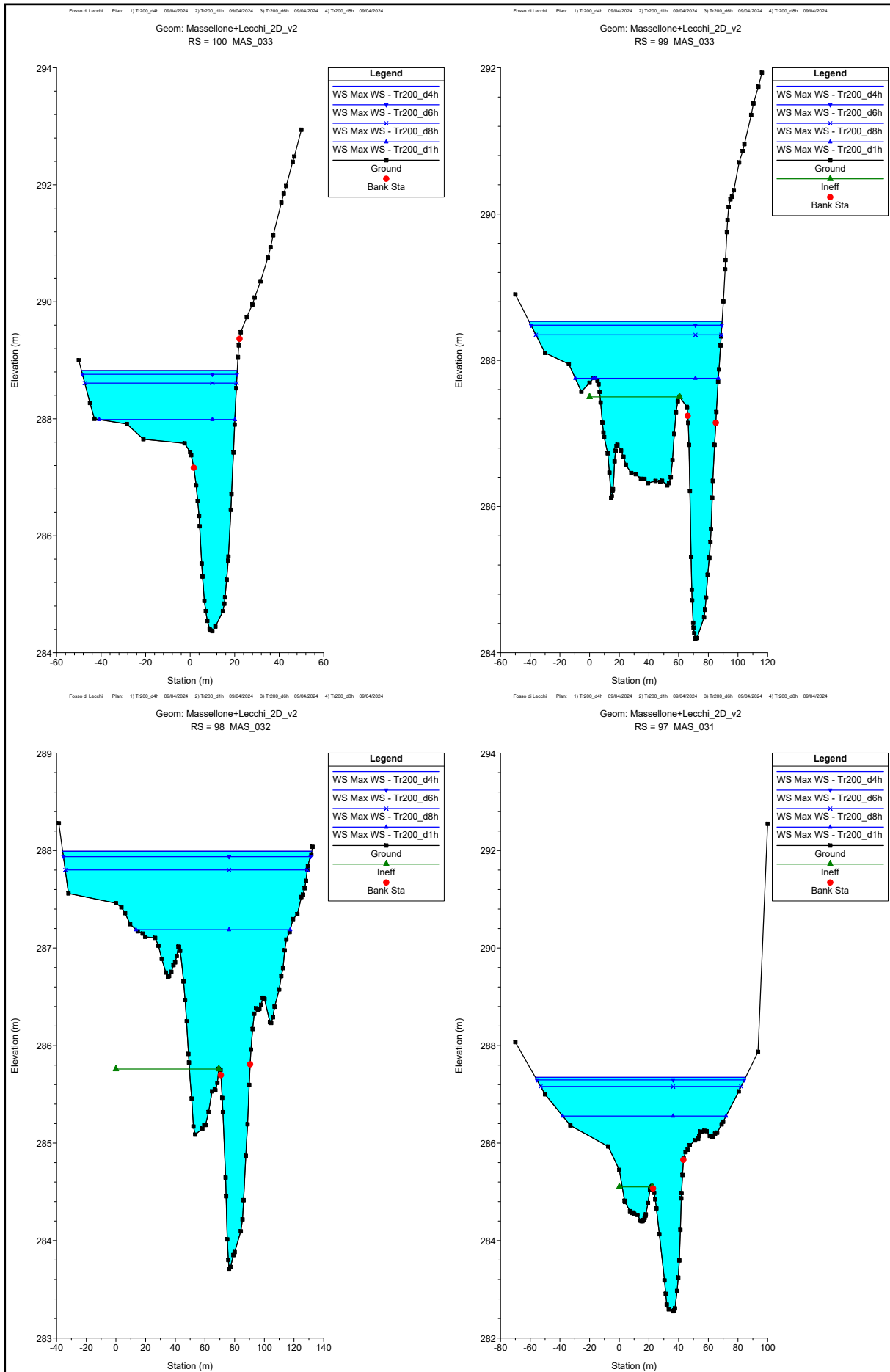
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

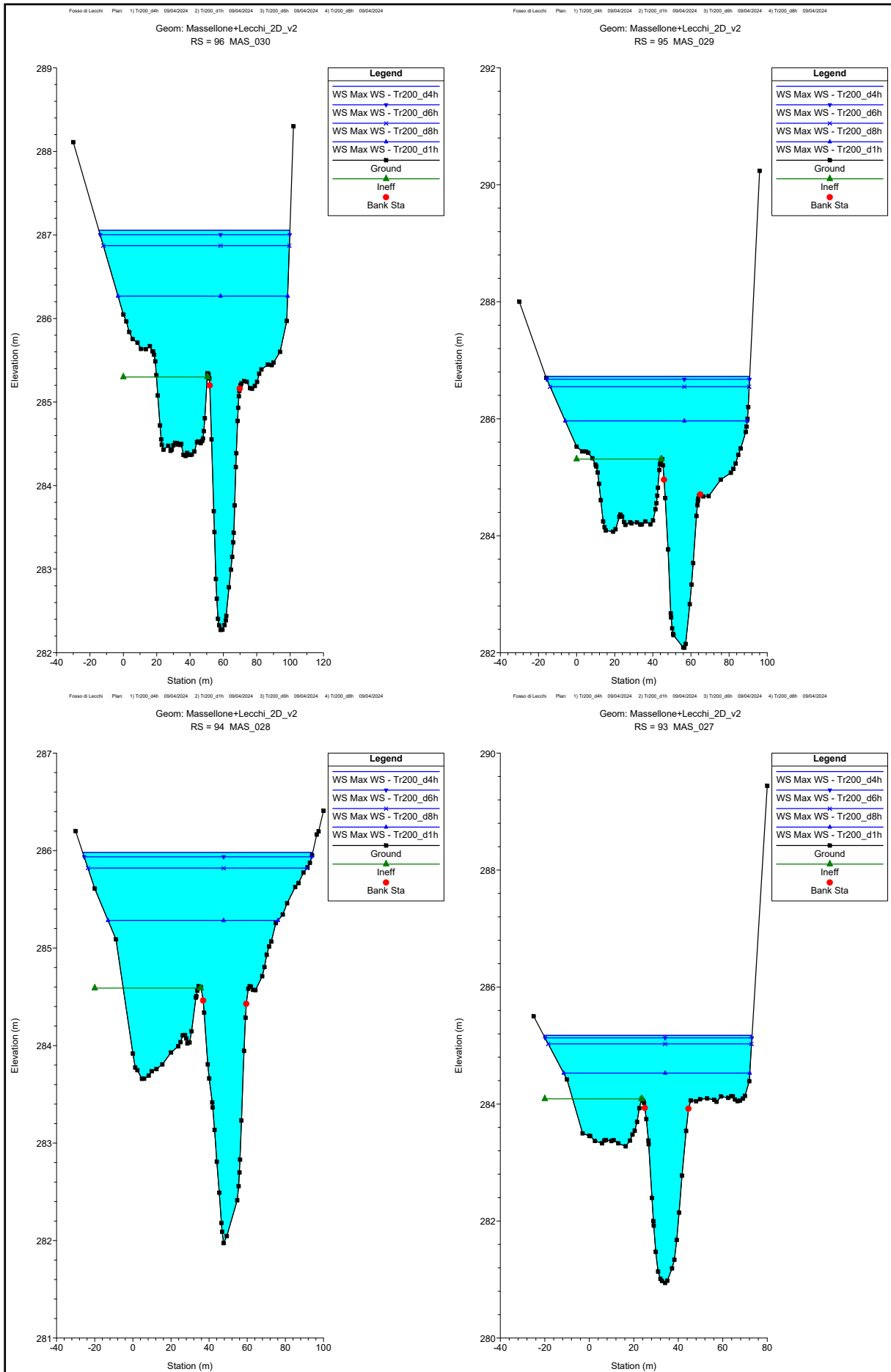
MASSELLONE

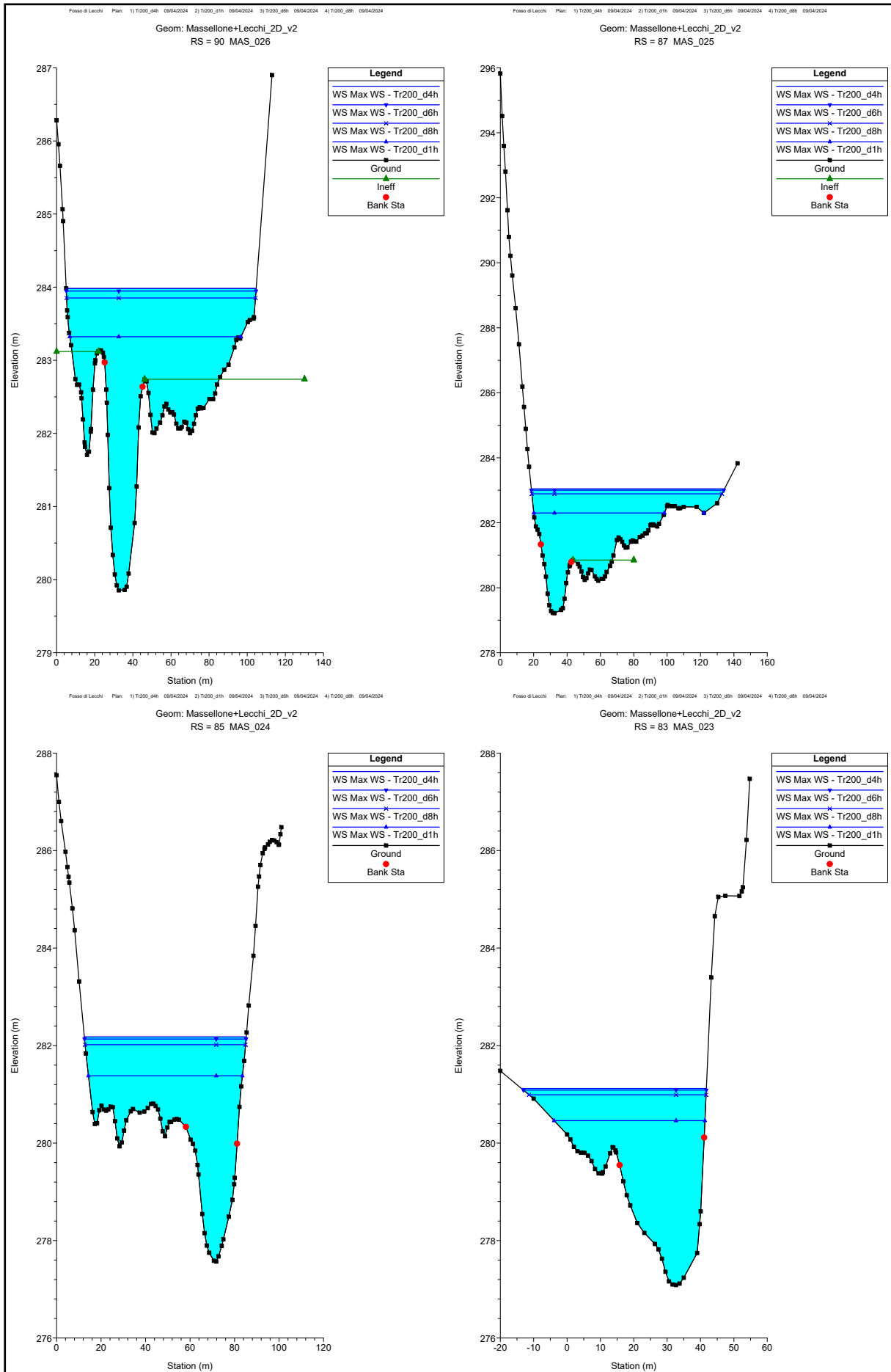
MODELLAZIONE PER TR= 200 anni

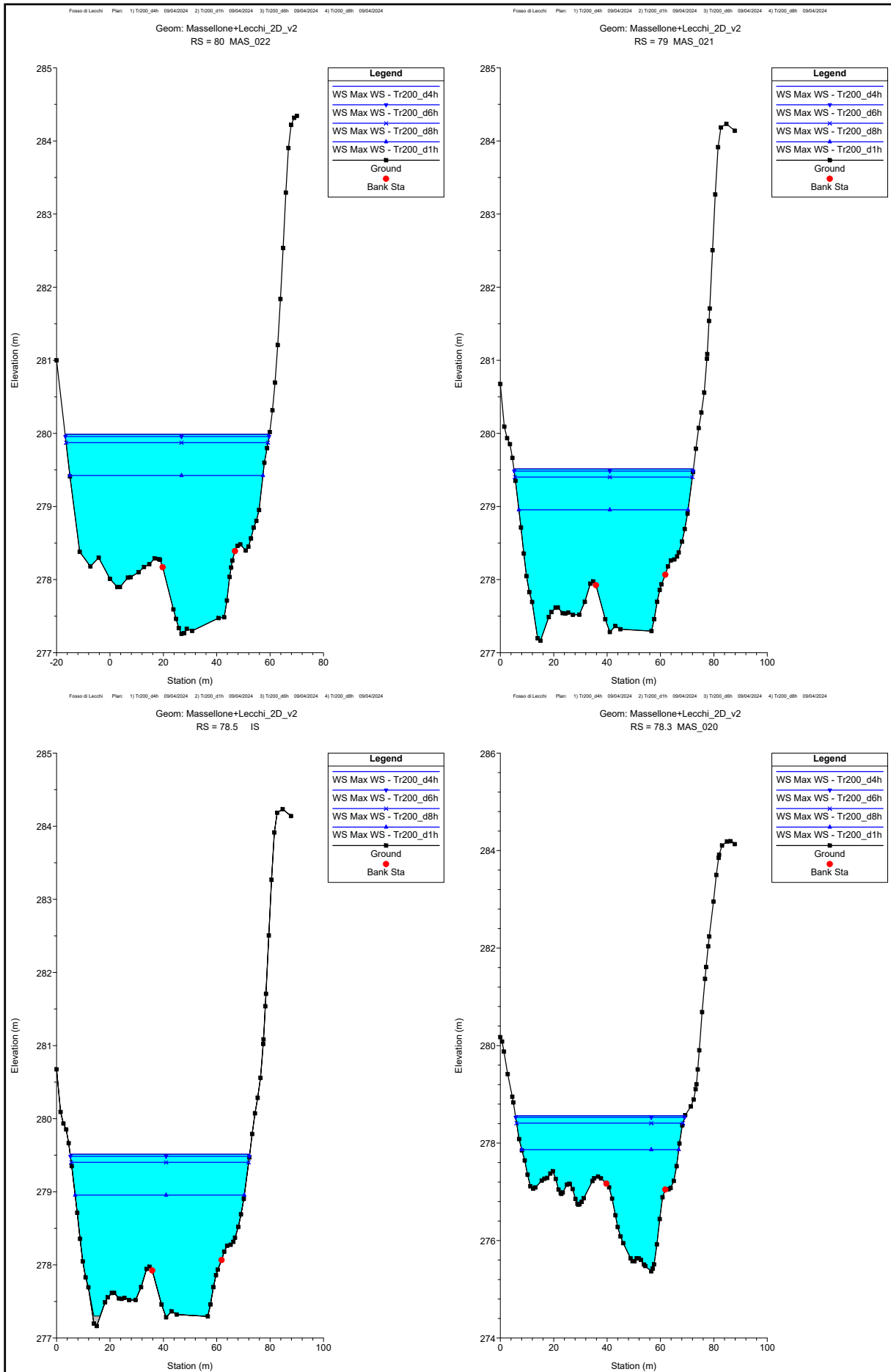
DURATE DI PIOGGIA: 1, 4, 6 e 8 h

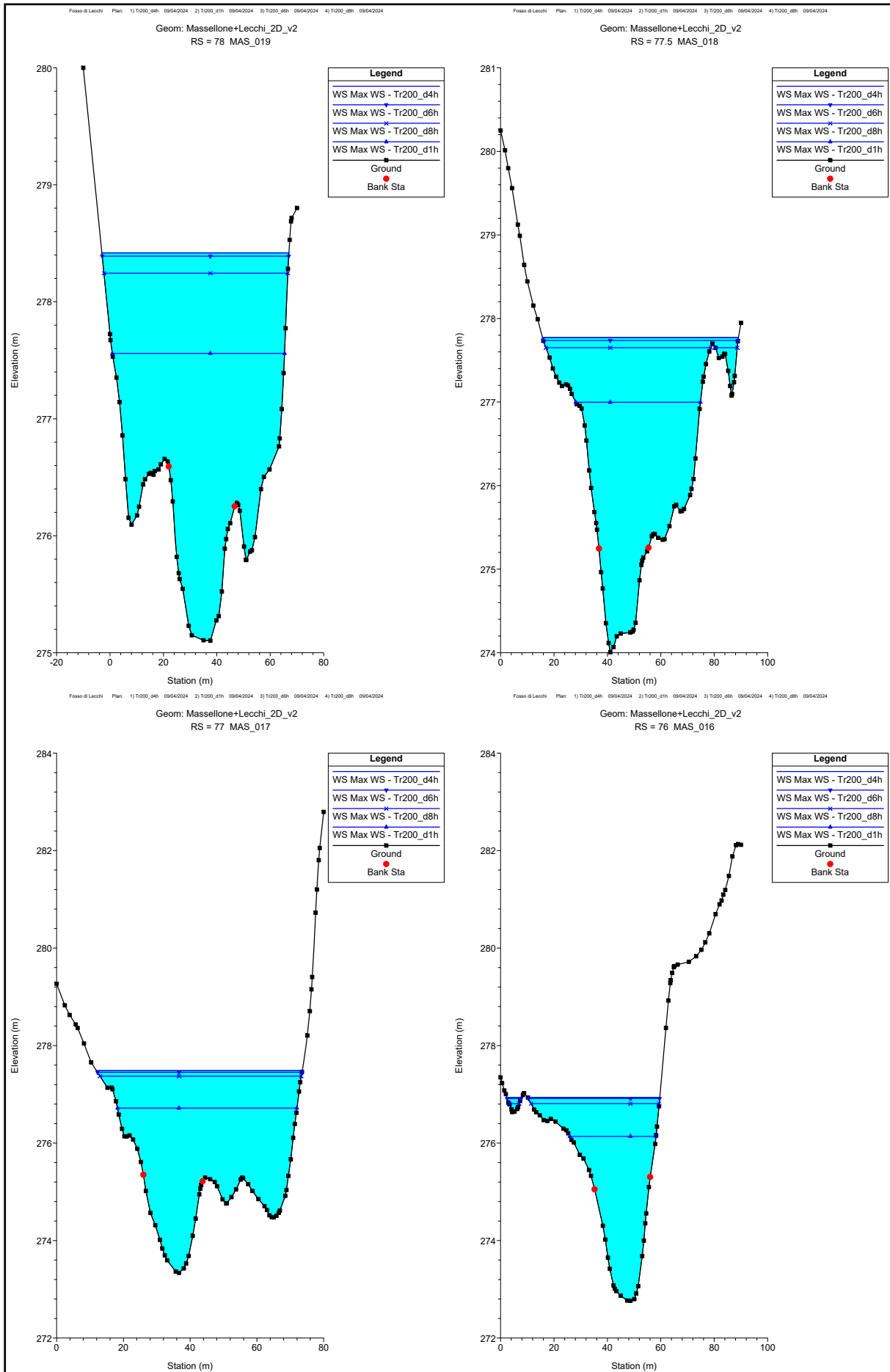
Sezioni Trasversali (da monte verso valle)

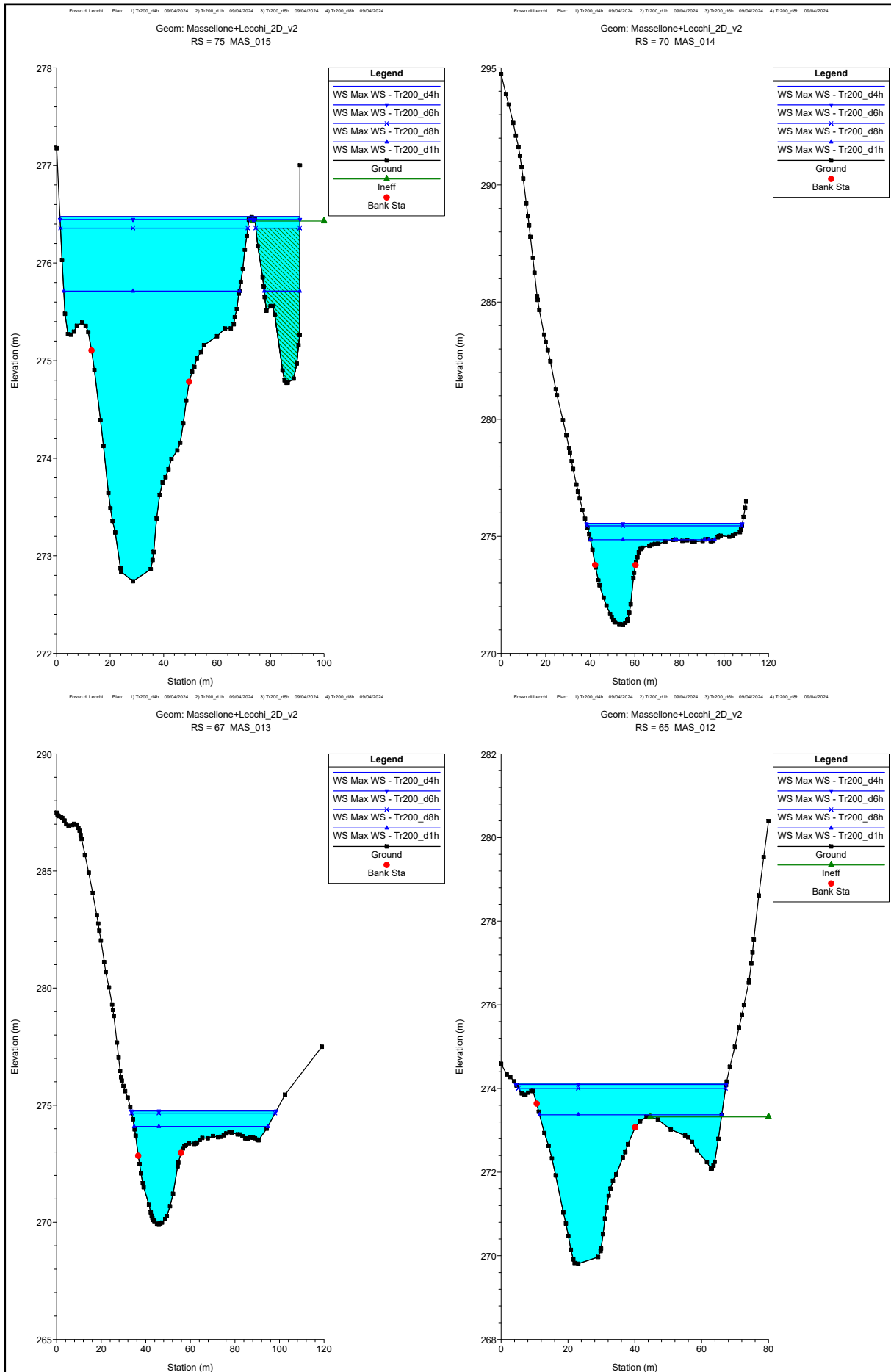


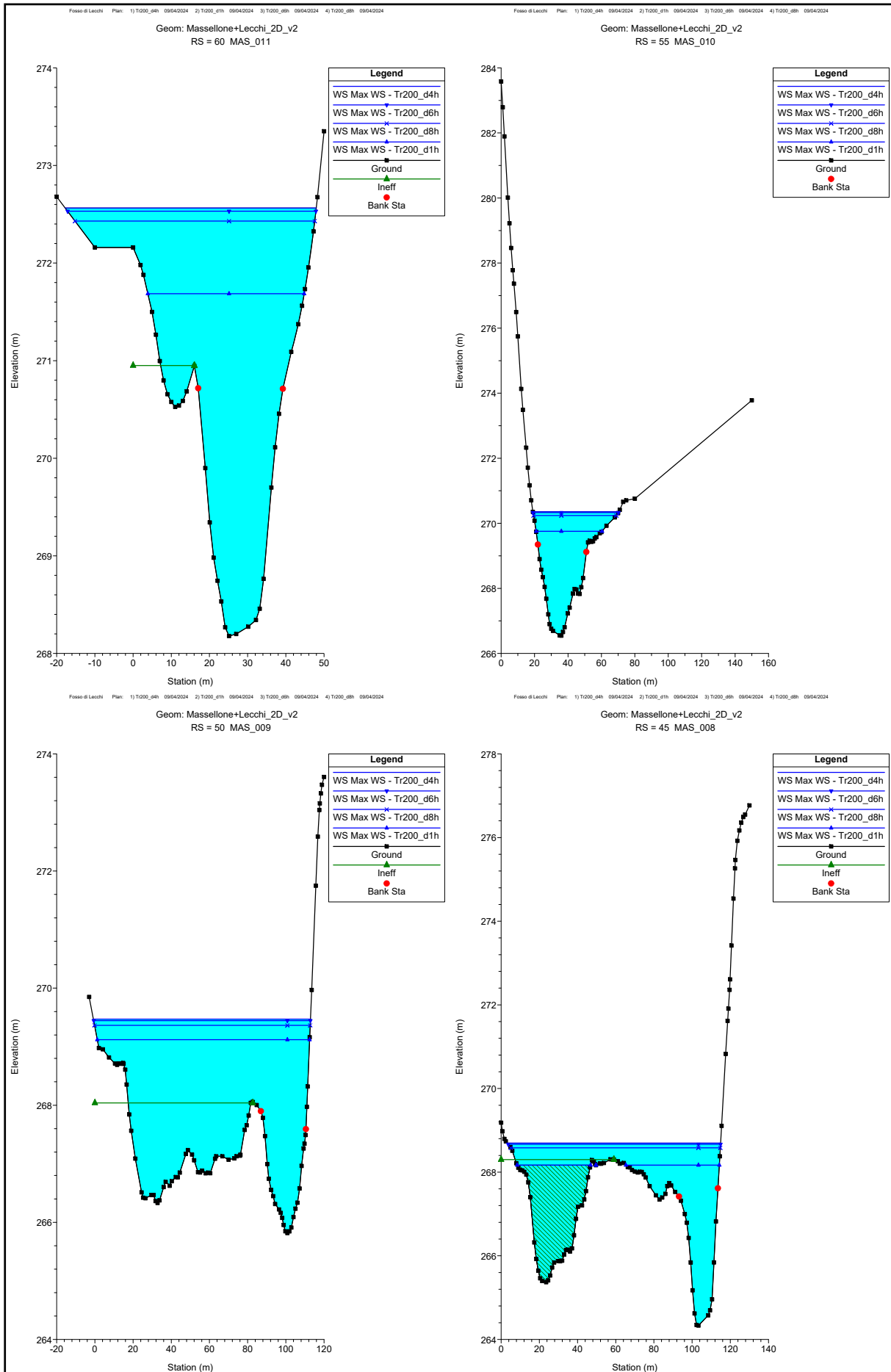


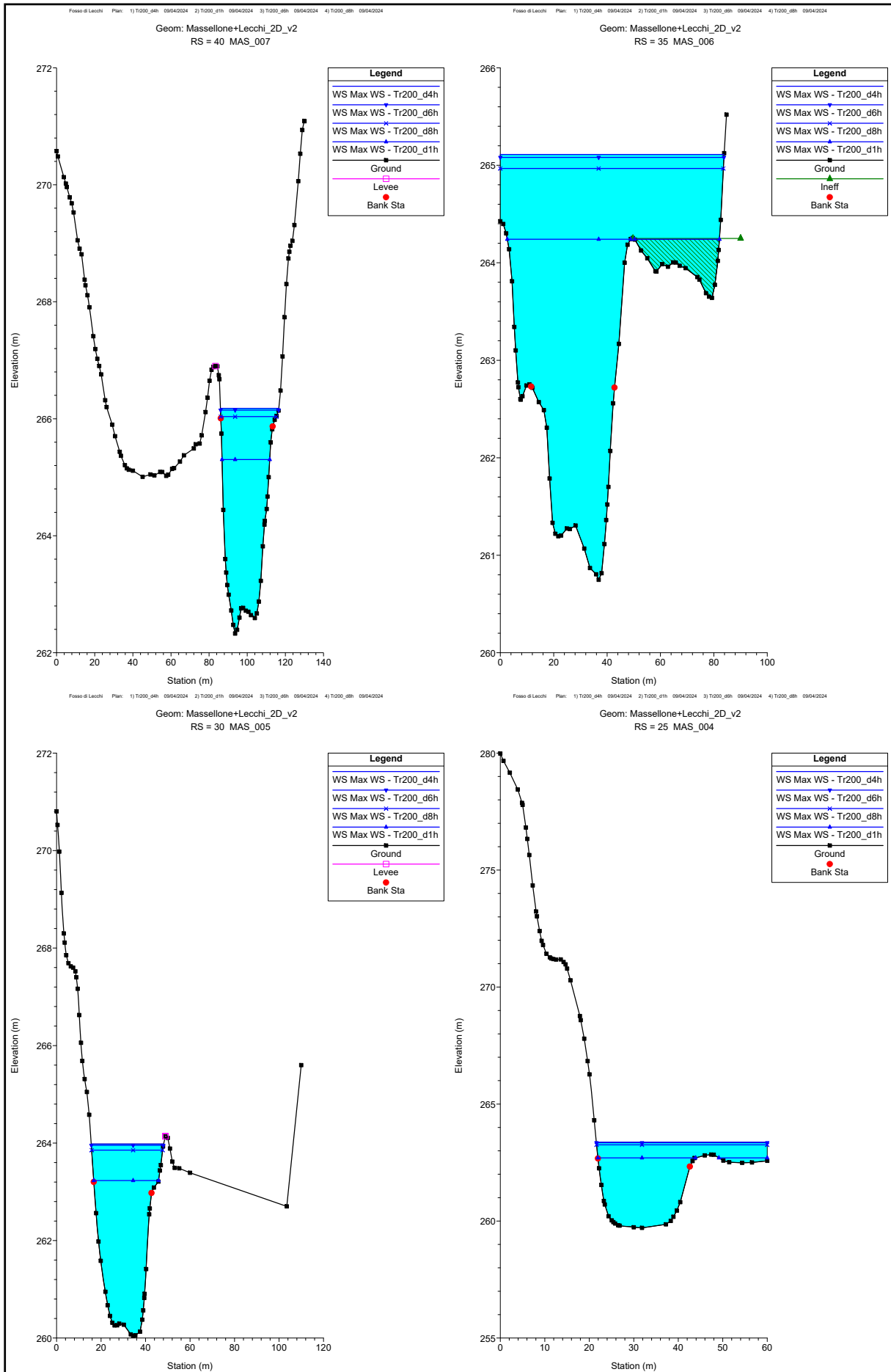


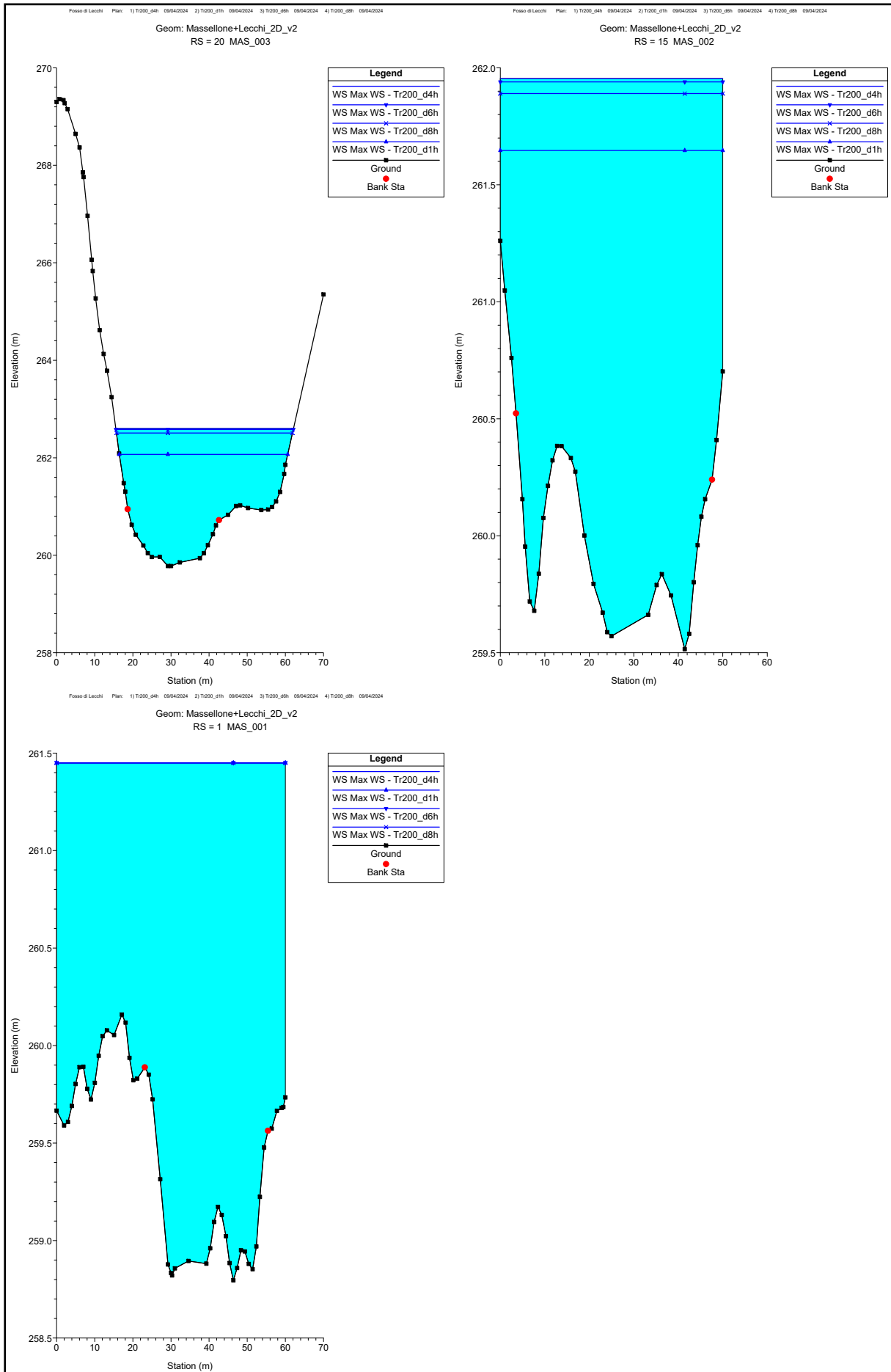












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

MASSELLONE

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Dati idraulici

ALLEGATI

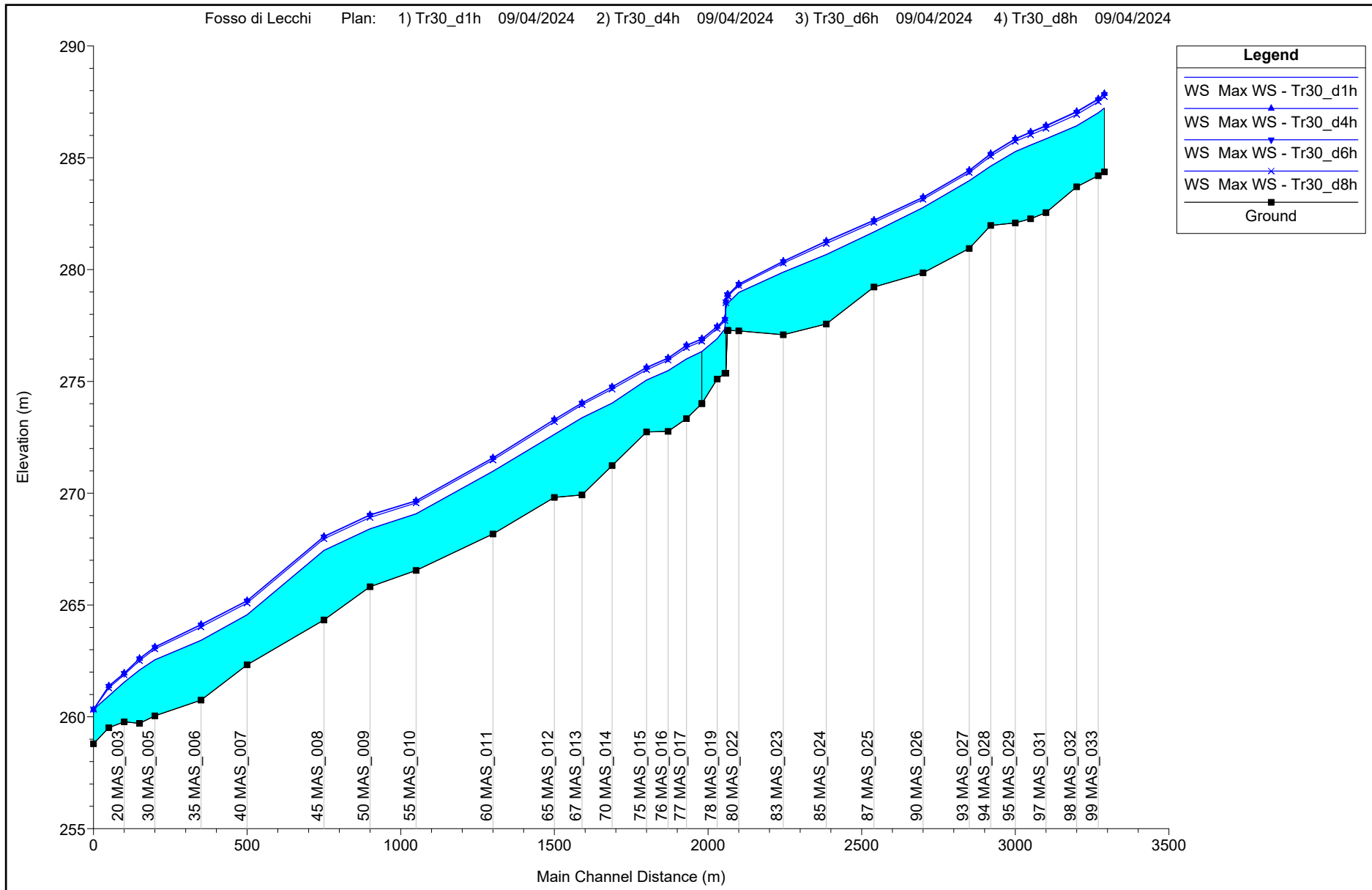
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

MASSELLONE

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Profilo longitudinale



ALLEGATI

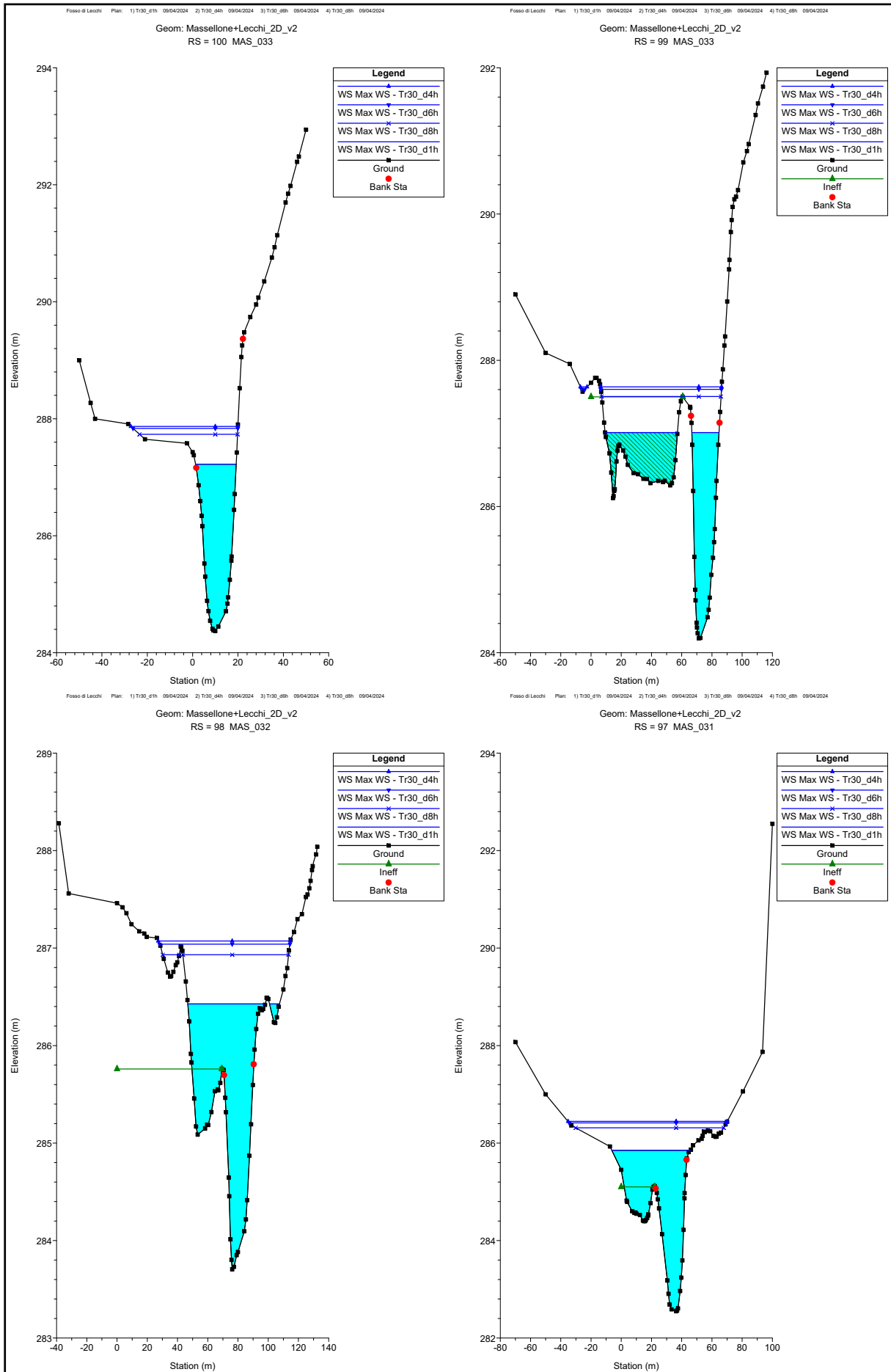
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

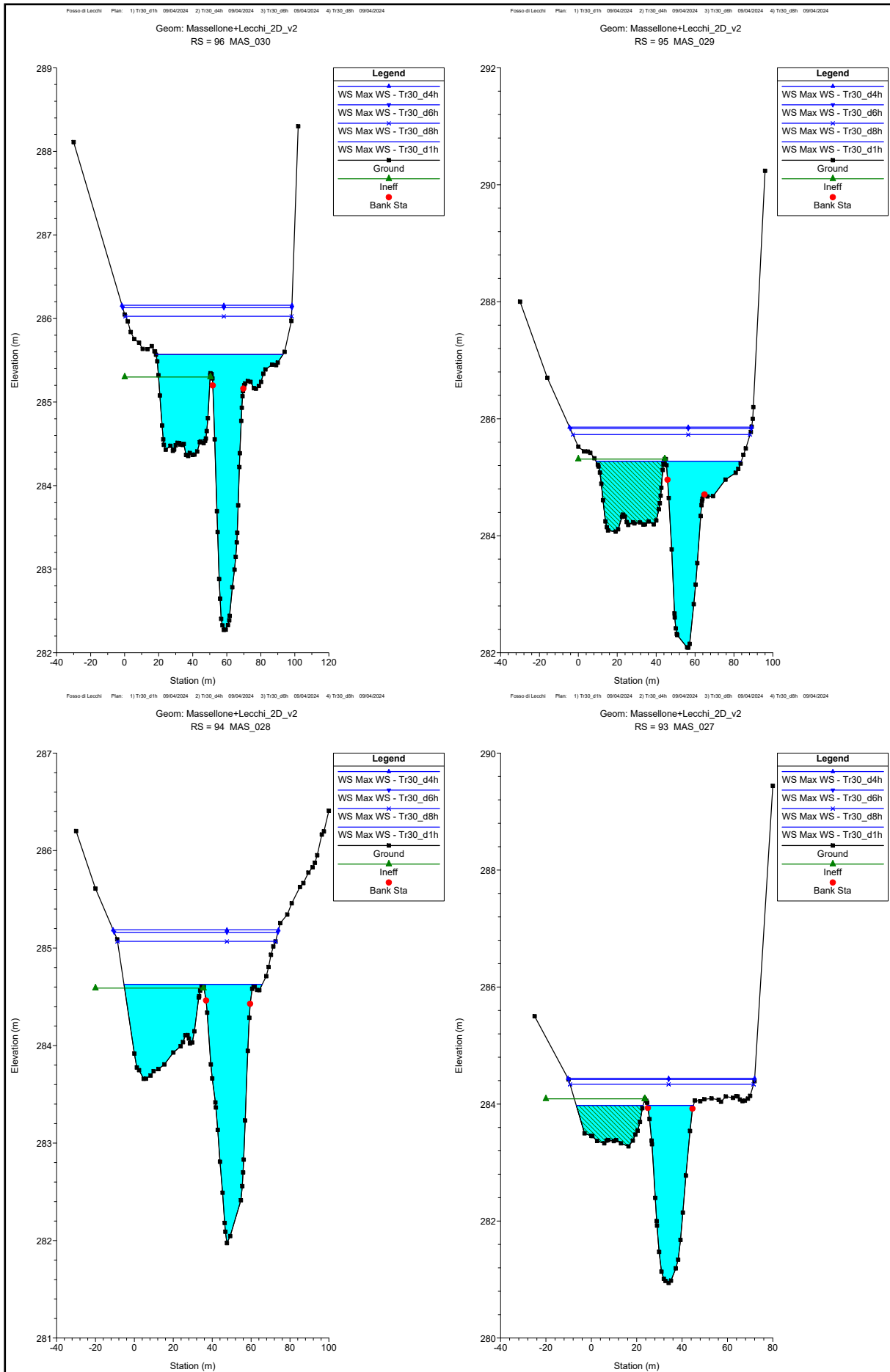
MASSELLONE

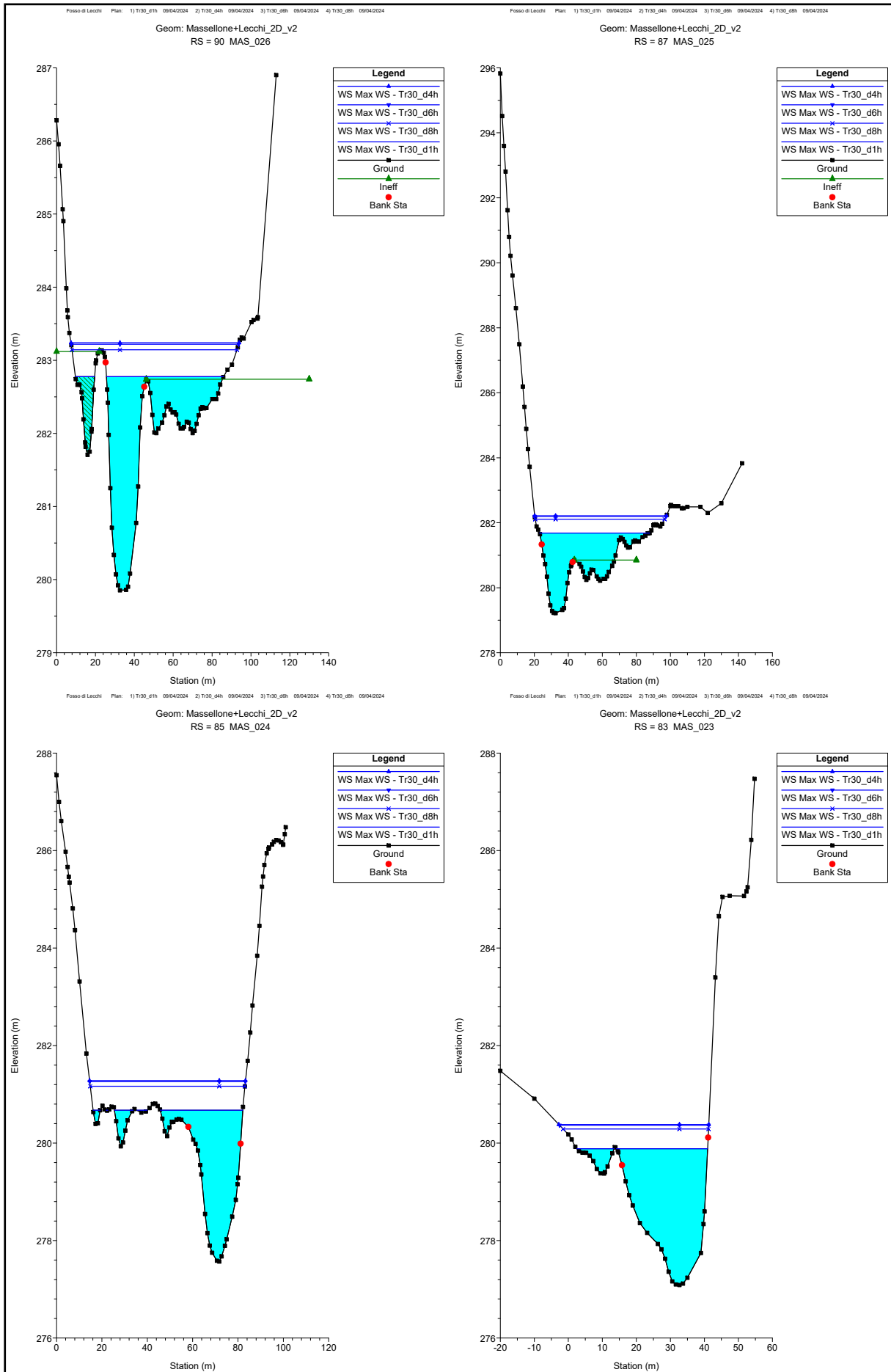
MODELLAZIONE PER TR= 30 anni

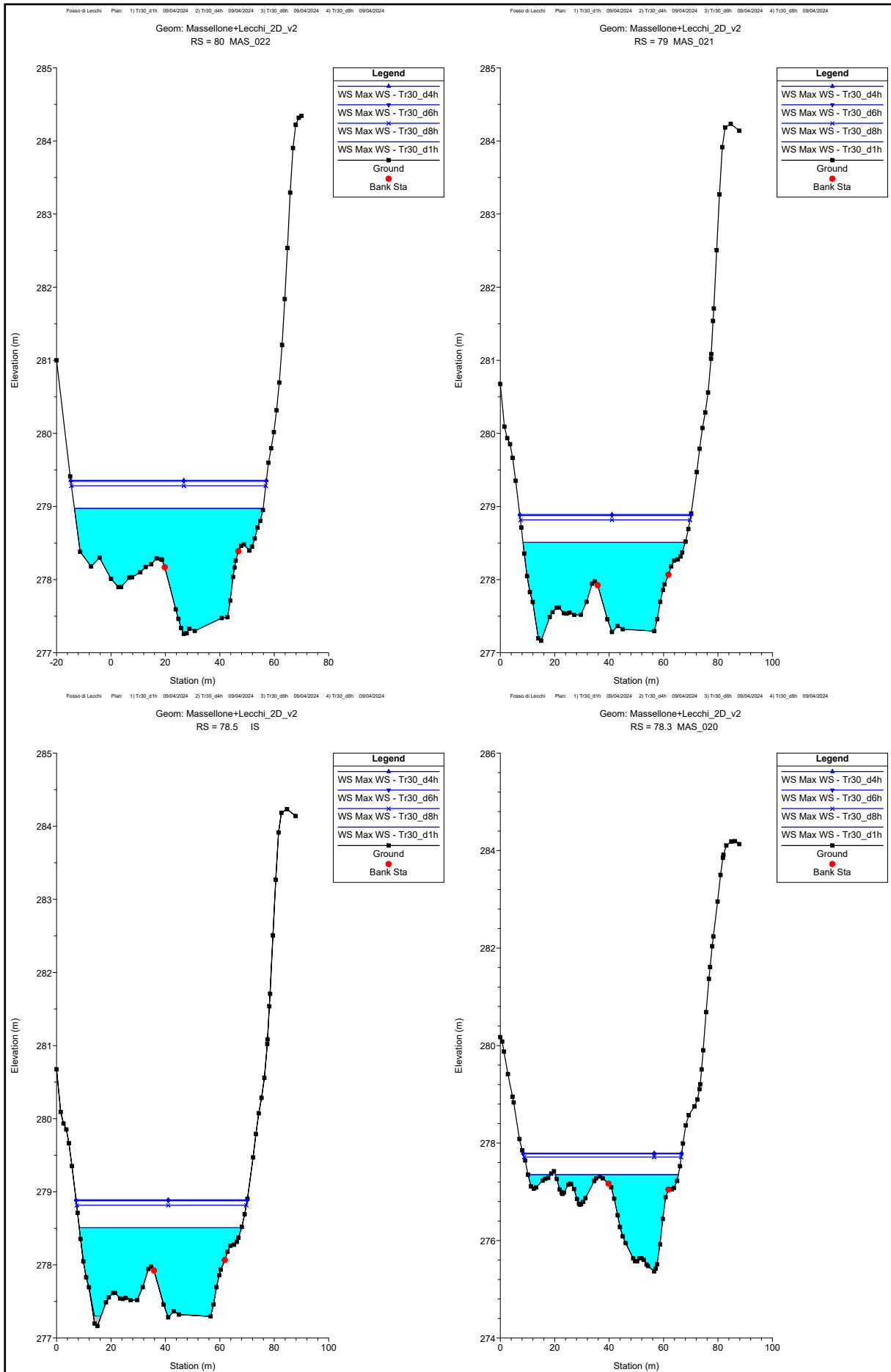
DURATE DI PIOGGIA: 1, 4, 6 e 8 h

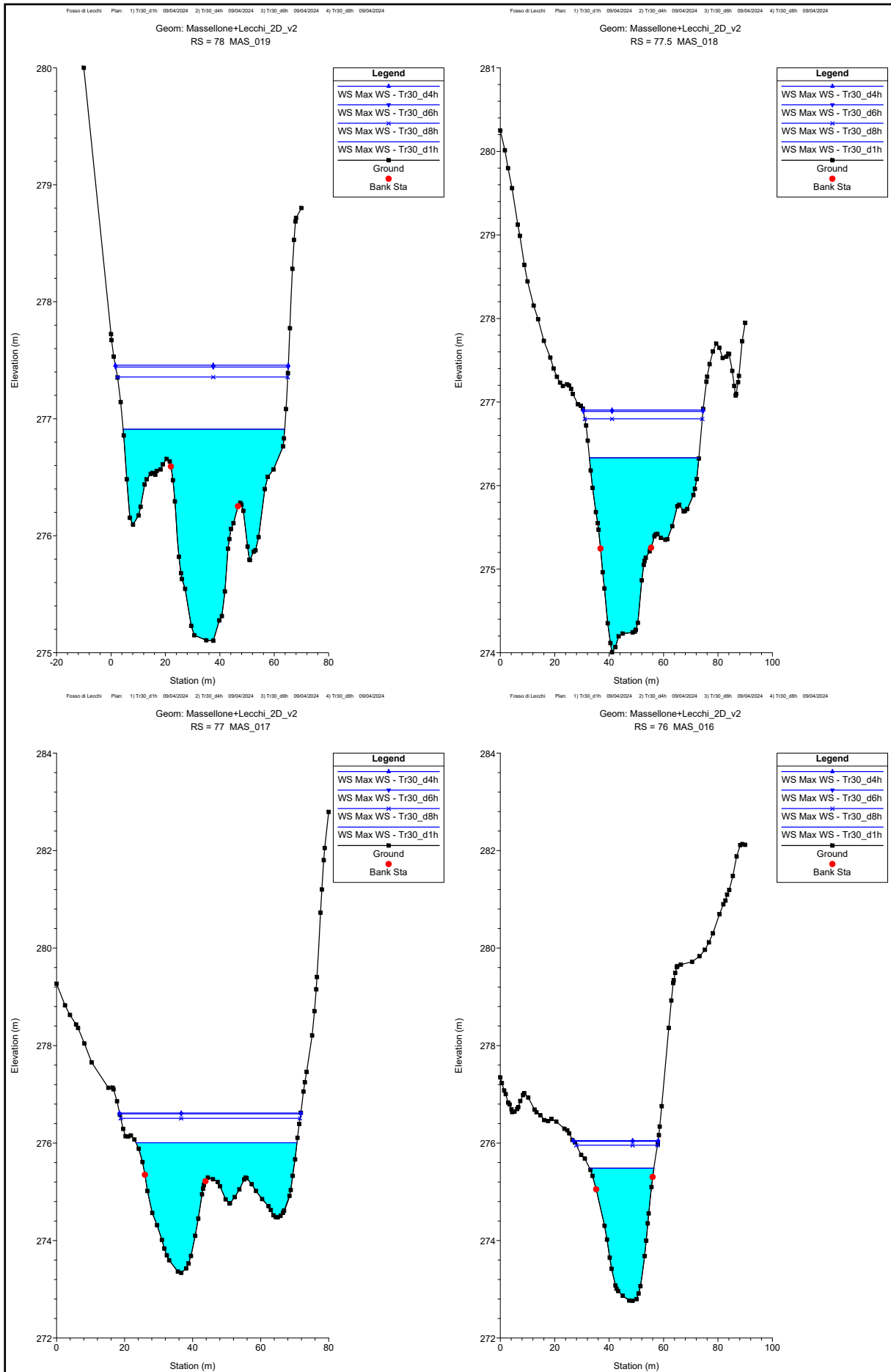
Sezioni Trasversali (da monte verso valle)

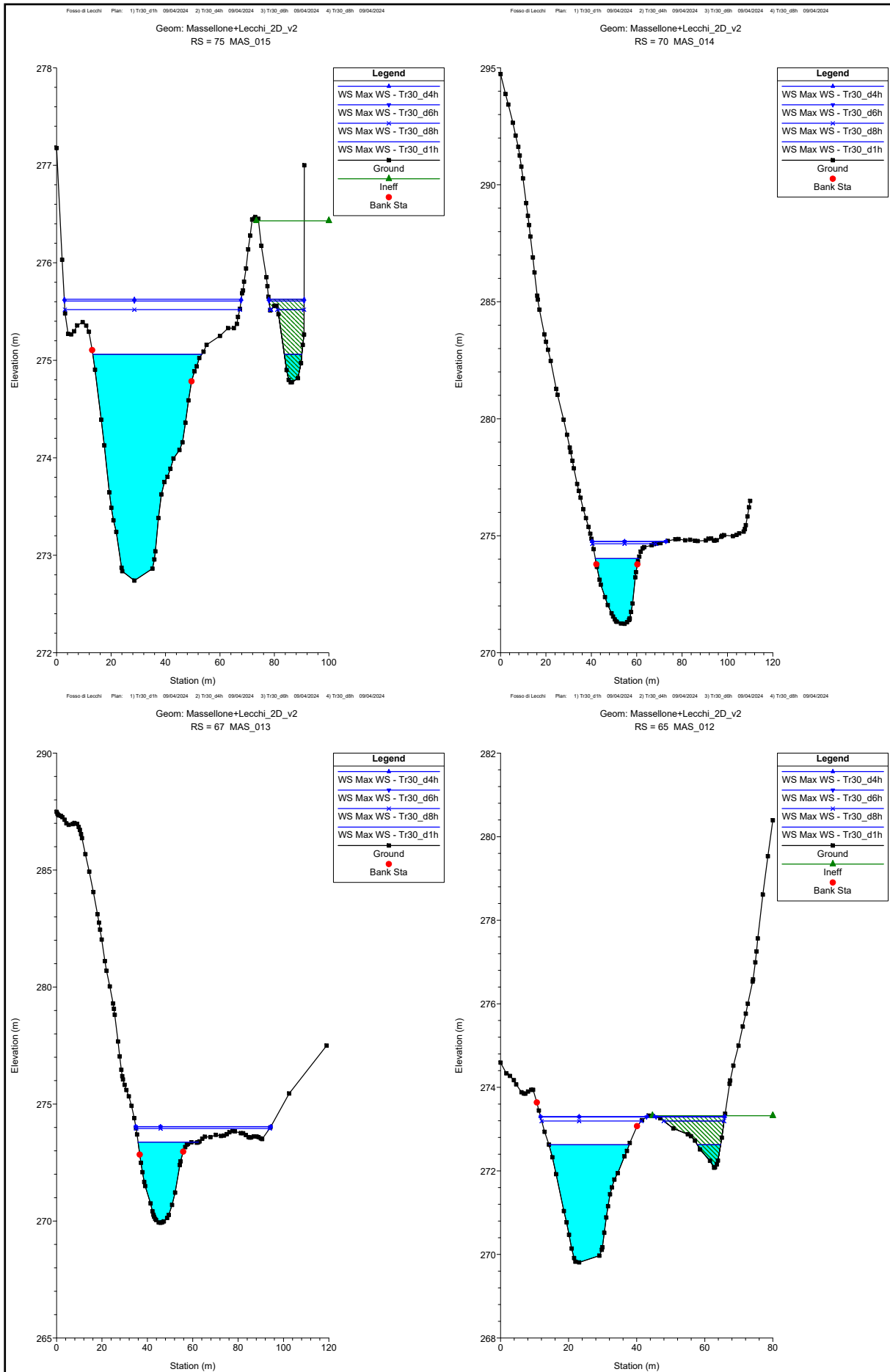


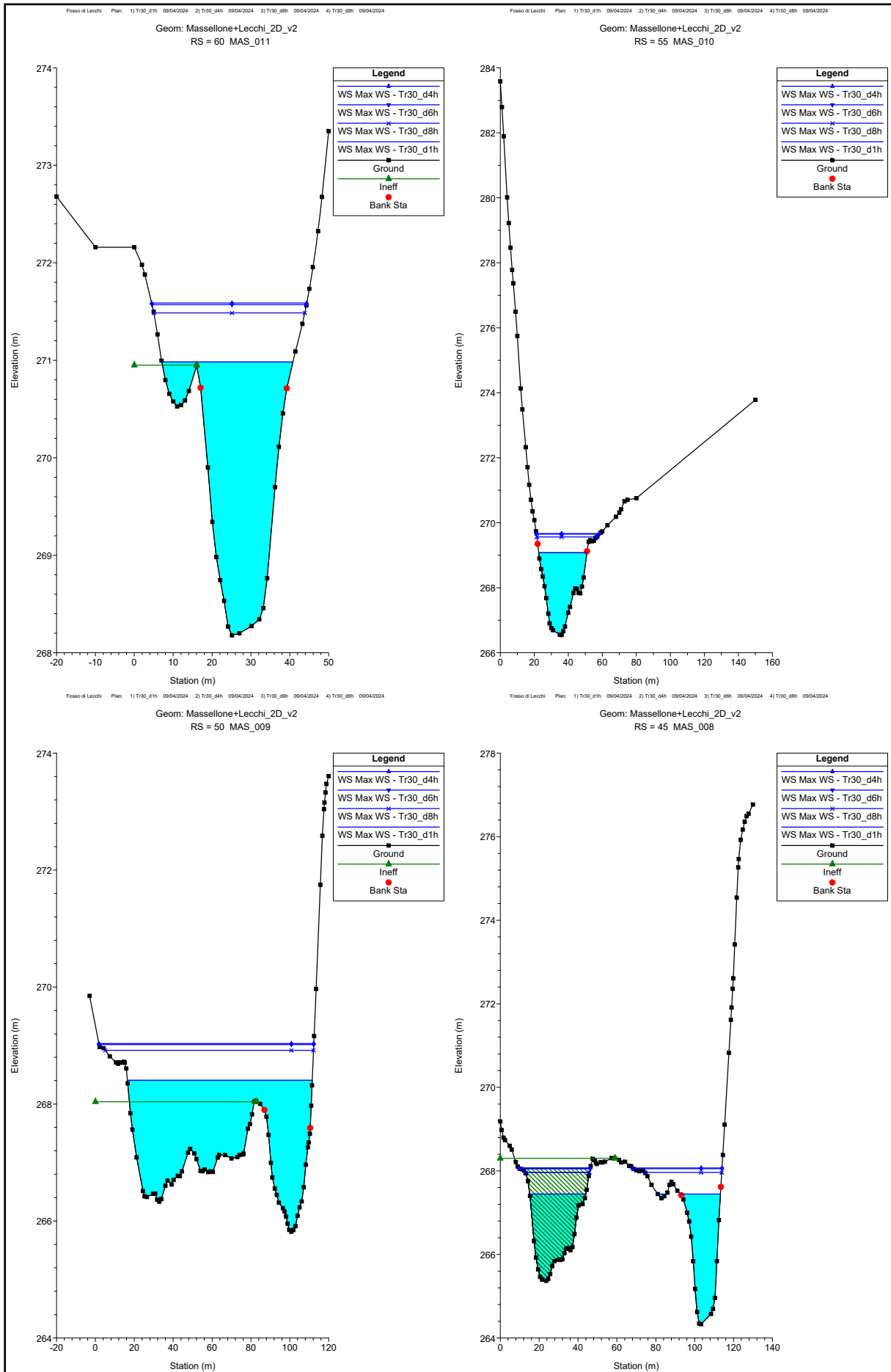


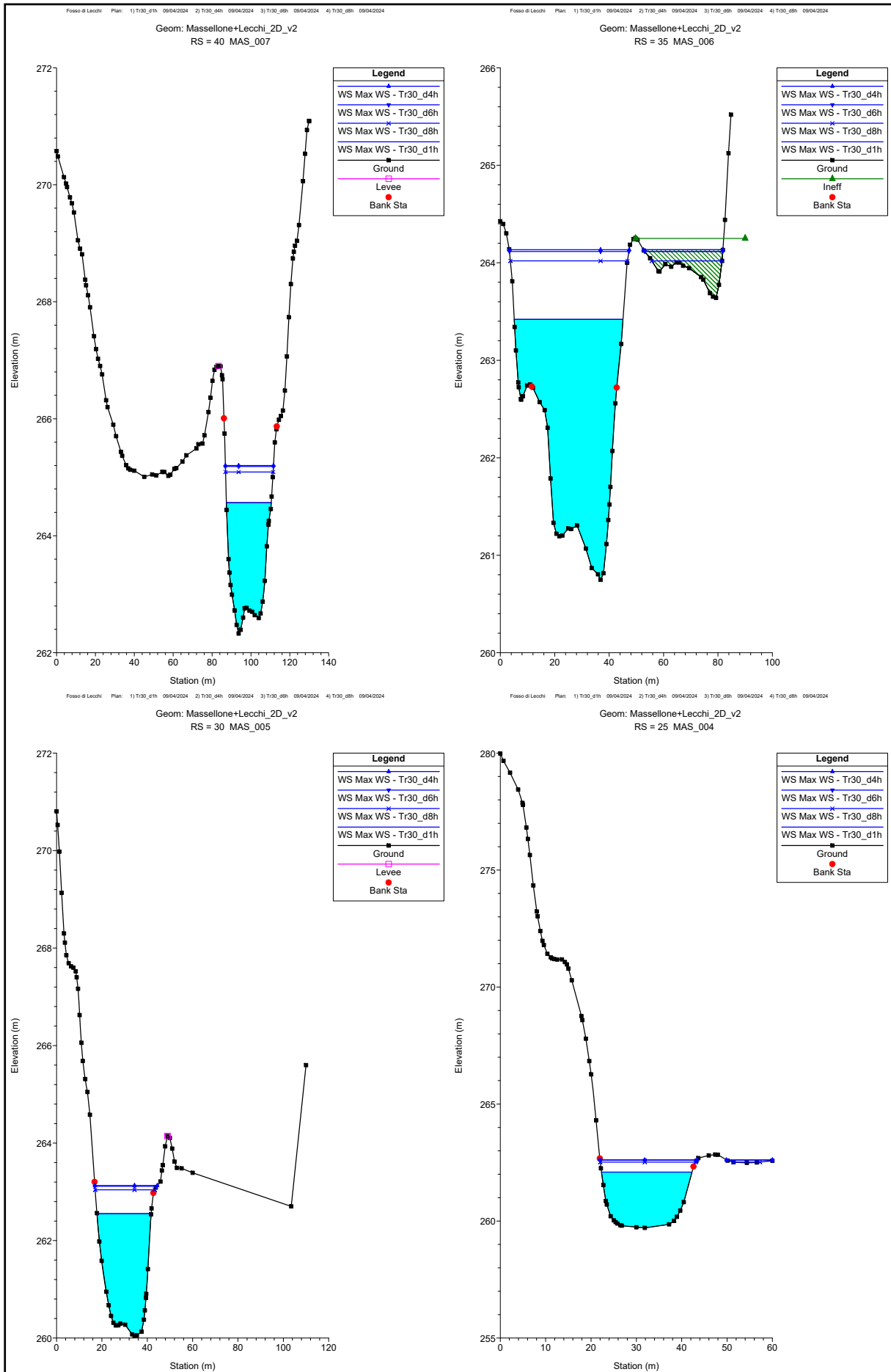


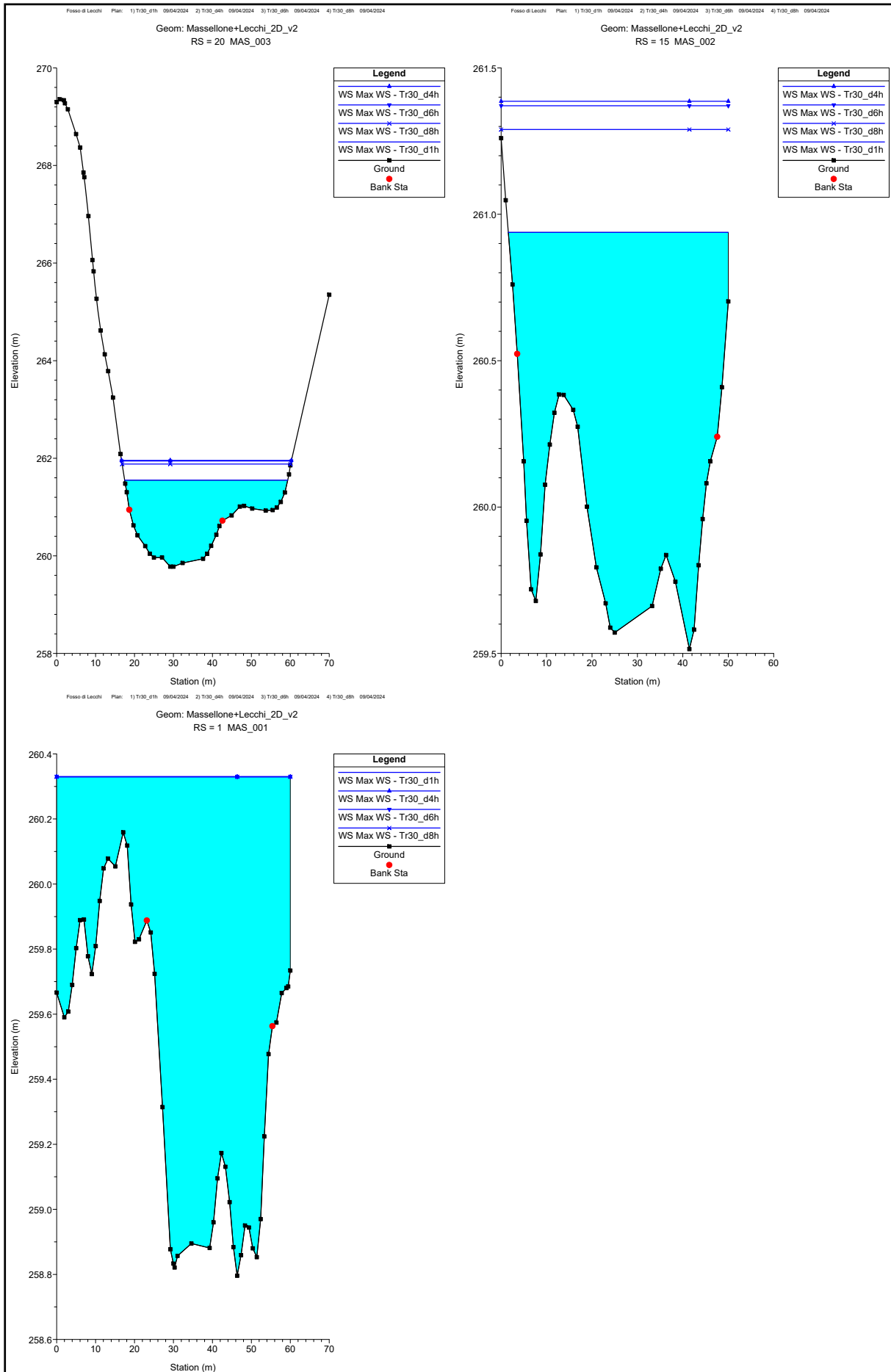












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DI LECCHI"

MASSELLONE

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 4, 6 e 8 h

Dati idraulici

HEC-RAS 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
Massellone2	67	Max WS	Tr30_d6h	151.43	269.93	274.04		274.32	0.005086	2.42	0.43	0.51	76.73	59.54	0.44
Massellone2	67	Max WS	Tr30_d8h	142.96	269.93	273.95		274.23	0.005097	2.38	0.42	0.45	71.96	58.87	0.44
Massellone2	65	Max WS	Tr30_d1h	93.33	269.81	272.63		272.91	0.010509	2.35			39.67	30.44	0.58
Massellone2	65	Max WS	Tr30_d4h	154.90	269.81	273.30		273.67	0.010746	2.69	0.28		57.75	51.97	0.60
Massellone2	65	Max WS	Tr30_d6h	152.94	269.81	273.29		273.65	0.010655	2.68	0.27		57.40	51.28	0.60
Massellone2	65	Max WS	Tr30_d8h	142.96	269.81	273.19		273.54	0.010777	2.63	0.20		54.52	47.03	0.60
Massellone2	60	Max WS	Tr30_d1h	93.33	268.18	270.98		271.20	0.006400	2.07	0.35	0.21	47.65	33.74	0.47
Massellone2	60	Max WS	Tr30_d4h	154.89	268.18	271.59		271.90	0.006787	2.54	0.68	0.47	69.88	39.91	0.50
Massellone2	60	Max WS	Tr30_d6h	152.94	268.18	271.57		271.88	0.006776	2.53	0.68	0.47	69.21	39.74	0.50
Massellone2	60	Max WS	Tr30_d8h	142.96	268.18	271.49		271.78	0.006690	2.46	0.64	0.43	65.88	38.81	0.49
Massellone2	55	Max WS	Tr30_d1h	93.29	266.55	269.08		269.30	0.008788	2.08			44.76	28.32	0.53
Massellone2	55	Max WS	Tr30_d4h	154.85	266.55	269.67		269.99	0.008527	2.50	0.26	0.31	63.32	37.39	0.55
Massellone2	55	Max WS	Tr30_d6h	152.92	266.55	269.65		269.97	0.008543	2.49	0.25	0.30	62.69	37.06	0.55
Massellone2	55	Max WS	Tr30_d8h	140.72	266.55	269.56		269.86	0.008333	2.39	0.20	0.24	59.58	35.35	0.54
Massellone2	50	Max WS	Tr30_d1h	93.22	265.82	268.41		268.44	0.001660	1.02	0.50	0.19	140.77	95.07	0.24
Massellone2	50	Max WS	Tr30_d4h	154.78	265.82	269.04		269.08	0.001625	1.22	0.57	0.27	204.40	110.59	0.25
Massellone2	50	Max WS	Tr30_d6h	152.89	265.82	269.02		269.06	0.001638	1.22	0.57	0.27	202.21	110.45	0.25
Massellone2	50	Max WS	Tr30_d8h	140.63	265.82	268.92		268.96	0.001596	1.17	0.55	0.26	191.55	107.14	0.24
Massellone2	45	Max WS	Tr30_d1h	93.21	264.33	267.45		267.75	0.009960	2.43	0.14		38.63	53.80	0.56
Massellone2	45	Max WS	Tr30_d4h	154.76	264.33	268.07		268.49	0.010058	2.93	0.53	0.32	60.88	82.63	0.59
Massellone2	45	Max WS	Tr30_d6h	152.88	264.33	268.05		268.47	0.010082	2.92	0.52	0.31	60.08	81.86	0.59
Massellone2	45	Max WS	Tr30_d8h	142.94	264.33	267.96		268.36	0.010078	2.84	0.53	0.27	56.19	72.56	0.59
Massellone2	40	Max WS	Tr30_d1h	93.21	262.33	264.57		264.89	0.013128	2.54			36.76	23.09	0.64
Massellone2	40	Max WS	Tr30_d4h	154.75	262.33	265.20		265.65	0.012801	2.98			51.95	24.76	0.66
Massellone2	40	Max WS	Tr30_d6h	152.88	262.33	265.18		265.63	0.012807	2.97			51.52	24.71	0.66
Massellone2	40	Max WS	Tr30_d8h	142.91	262.33	265.09		265.52	0.012822	2.90			49.23	24.47	0.65
Massellone2	35	Max WS	Tr30_d1h	93.20	260.75	263.42		263.54	0.003698	1.53	0.44	0.31	64.35	39.97	0.36
Massellone2	35	Max WS	Tr30_d4h	154.74	260.75	264.13		264.29	0.003355	1.81	0.61	0.44	94.15	73.30	0.36
Massellone2	35	Max WS	Tr30_d6h	152.88	260.75	264.12		264.27	0.003357	1.80	0.61	0.44	93.33	72.61	0.36
Massellone2	35	Max WS	Tr30_d8h	142.91	260.75	264.02		264.17	0.003345	1.75	0.59	0.44	89.14	68.82	0.35
Massellone2	30	Max WS	Tr30_d1h	93.19	260.04	262.55		262.77	0.006793	2.05			45.50	23.87	0.47
Massellone2	30	Max WS	Tr30_d4h	154.74	260.04	263.13		263.47	0.008377	2.58	0.15		60.02	27.57	0.54
Massellone2	30	Max WS	Tr30_d6h	152.87	260.04	263.11		263.45	0.008353	2.57	0.14		59.59	27.28	0.54
Massellone2	30	Max WS	Tr30_d8h	142.91	260.04	263.04		263.35	0.008081	2.48	0.09		57.61	26.27	0.53
Massellone2	25	Max WS	Tr30_d1h	93.18	259.71	262.09		262.38	0.009206	2.39			39.00	19.96	0.55
Massellone2	25	Max WS	Tr30_d4h	154.74	259.71	262.61		263.11	0.012086	3.11	0.23		50.64	31.56	0.64
Massellone2	25	Max WS	Tr30_d6h	152.87	259.71	262.60		263.09	0.012015	3.10	0.21		50.22	31.39	0.64
Massellone2	25	Max WS	Tr30_d8h	142.91	259.71	262.52		262.98	0.011766	3.00	0.12		47.76	26.89	0.63
Massellone2	20	Max WS	Tr30_d1h	93.18	259.78	261.55		261.83	0.012995	2.44	0.47	0.79	45.08	41.88	0.64
Massellone2	20	Max WS	Tr30_d4h	154.74	259.78	261.96		262.37	0.014388	3.02	0.70	1.15	62.38	43.62	0.71
Massellone2	20	Max WS	Tr30_d6h	152.87	259.78	261.94		262.35	0.014371	3.00	0.69	1.14	61.88	43.57	0.70
Massellone2	20	Max WS	Tr30_d8h	142.91	259.78	261.88		262.27	0.014264	2.93	0.66	1.09	59.16	43.27	0.70
Massellone2	15	Max WS	Tr30_d1h	93.18	259.52	260.94		261.14	0.013250	1.98	0.38	0.66	48.09	48.42	0.62
Massellone2	15	Max WS	Tr30_d4h	154.74	259.52	261.39		261.65	0.011037	2.29	0.63	0.84	70.25	50.00	0.60
Massellone2	15	Max WS	Tr30_d6h	152.87	259.52	261.37		261.63	0.011159	2.29	0.62	0.84	69.47	50.00	0.60
Massellone2	15	Max WS	Tr30_d8h	142.91	259.52	261.29		261.55	0.011785	2.26	0.57	0.82	65.43	50.00	0.61
Massellone2	1	Max WS	Tr30_d1h	21.07	258.80	260.33	259.35	260.34	0.000581	0.47	0.14	0.17	54.38	60.00	0.13
Massellone2	1	Max WS	Tr30_d4h	21.07	258.80	260.33	259.35	260.34	0.000581	0.47	0.14	0.17	54.38	60.00	0.13
Massellone2	1	Max WS	Tr30_d6h	21.07	258.80	260.33	259.35	260.34	0.000581	0.47	0.14	0.17	54.38	60.00	0.13
Massellone2	1	Max WS	Tr30_d8h	21.07	258.80	260.33	259.35	260.34	0.000581	0.47	0.14	0.17	54.38	60.00	0.13

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

Fosso del Monti

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1 e 2 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

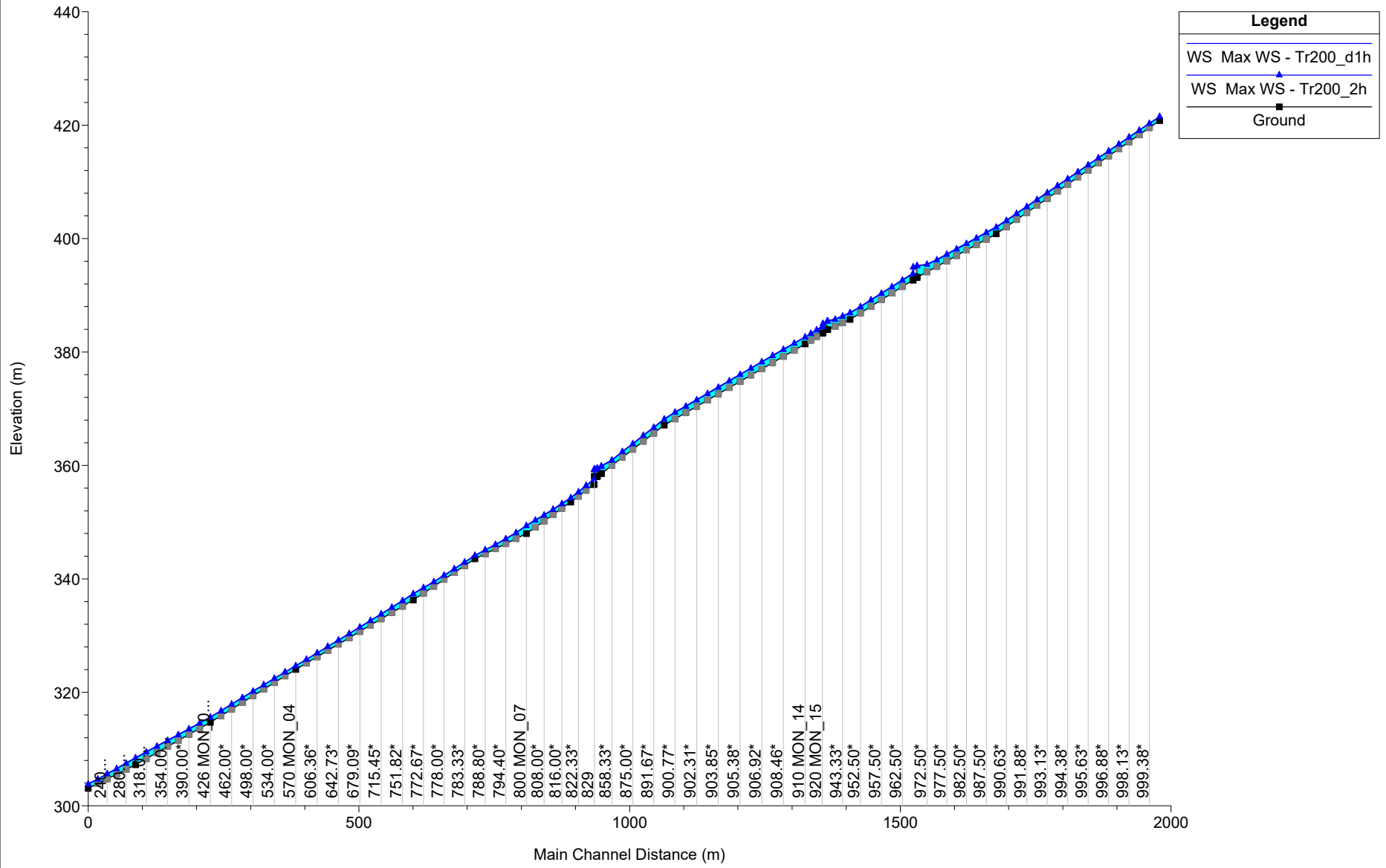
Fosso del Monti

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1 e 2 h

Profilo longitudinale

Fosso del Monti Plan: 1) Tr200_d1h 09/04/2024 2) Tr200_2h 09/04/2024



ALLEGATI

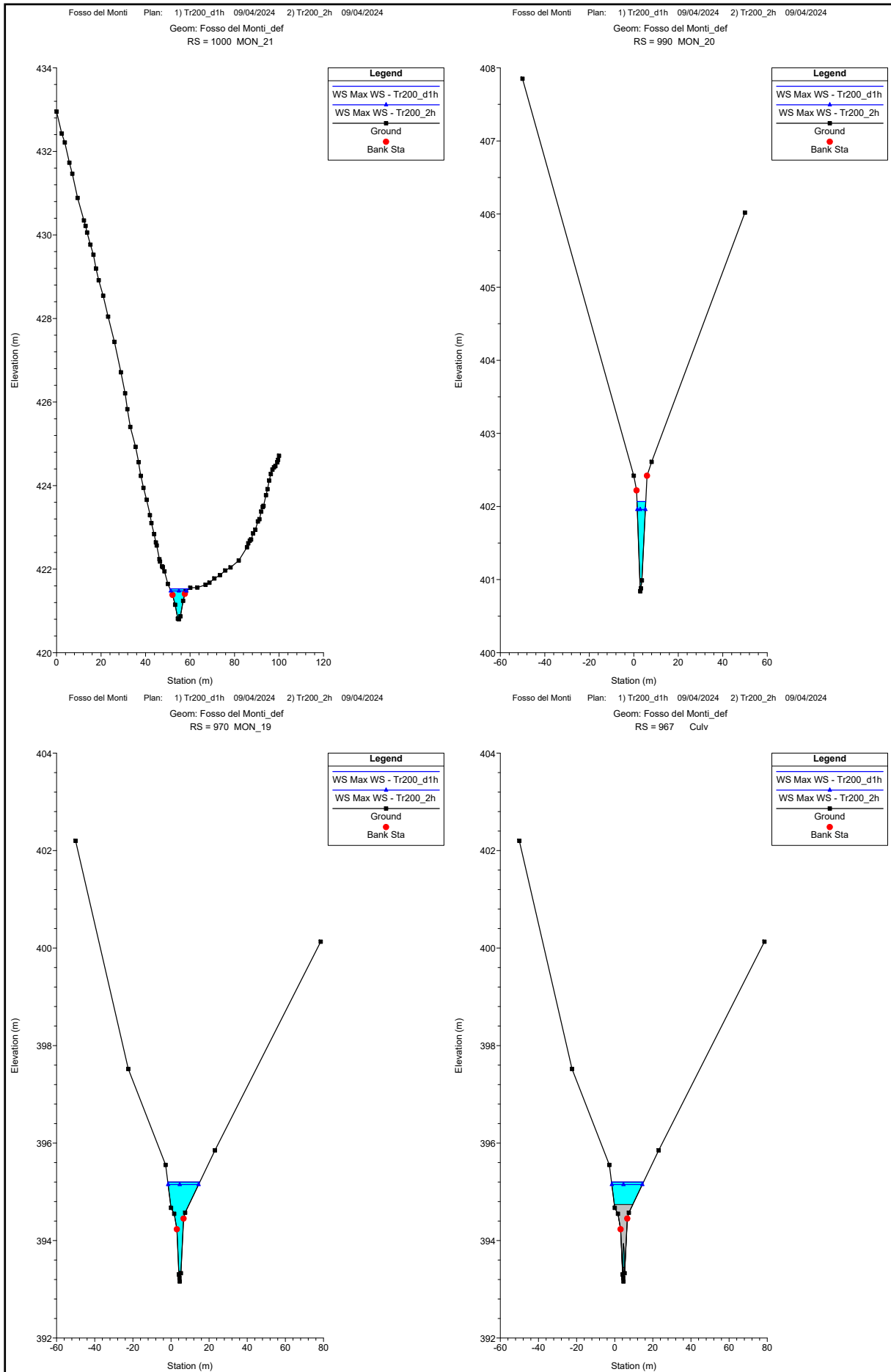
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

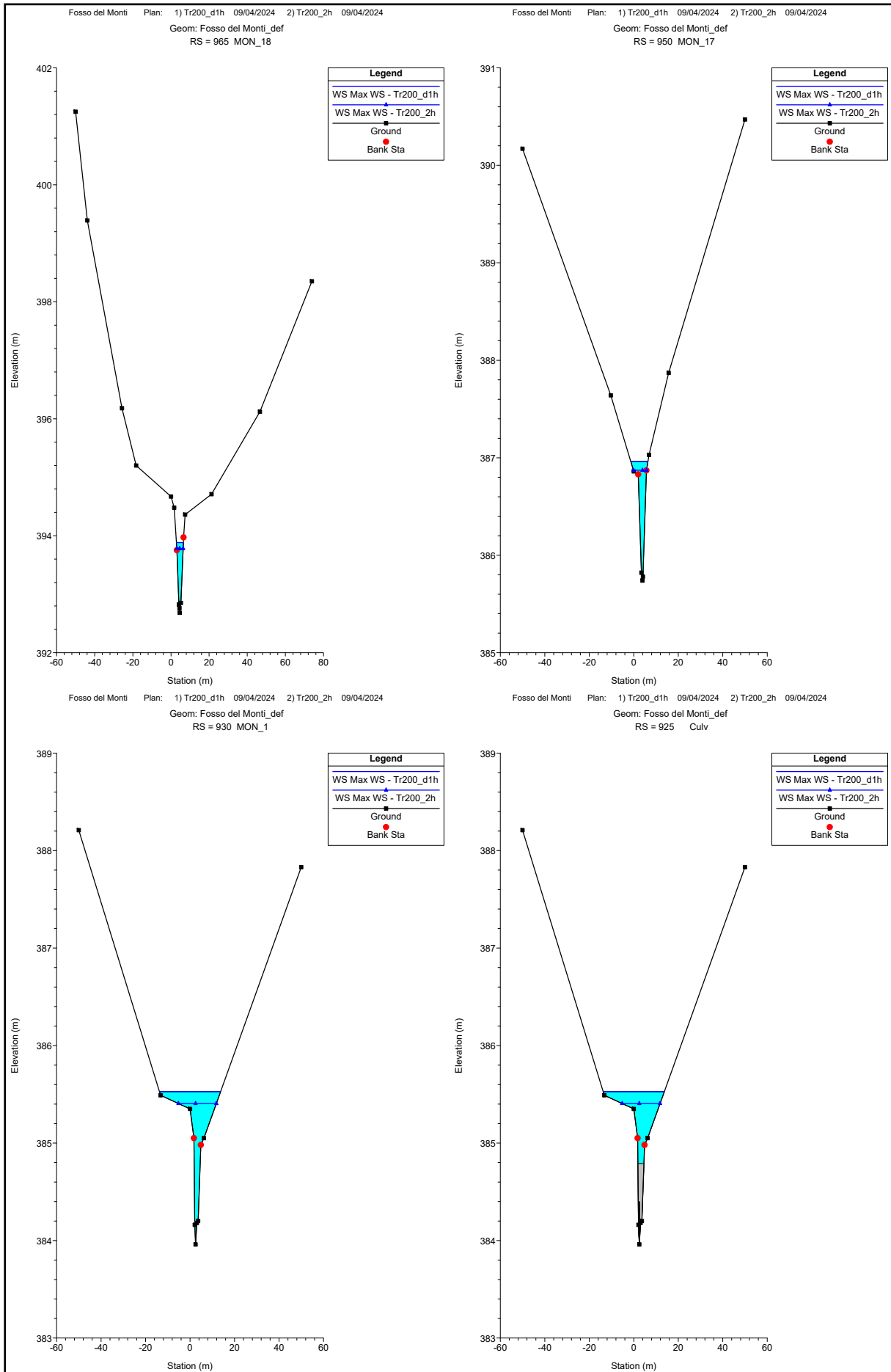
Fosso del Monti

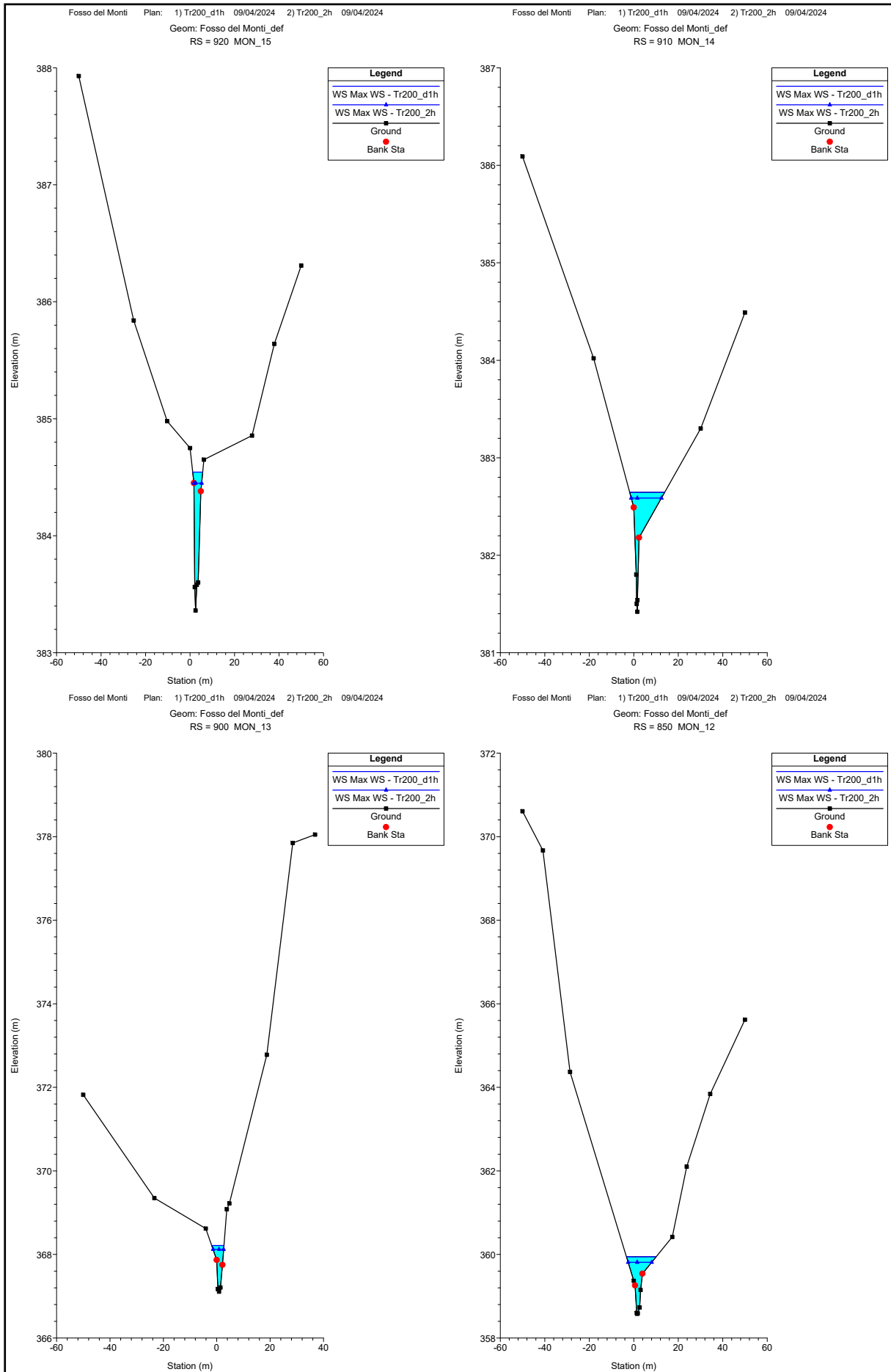
MODELLAZIONE PER TR= 200 anni

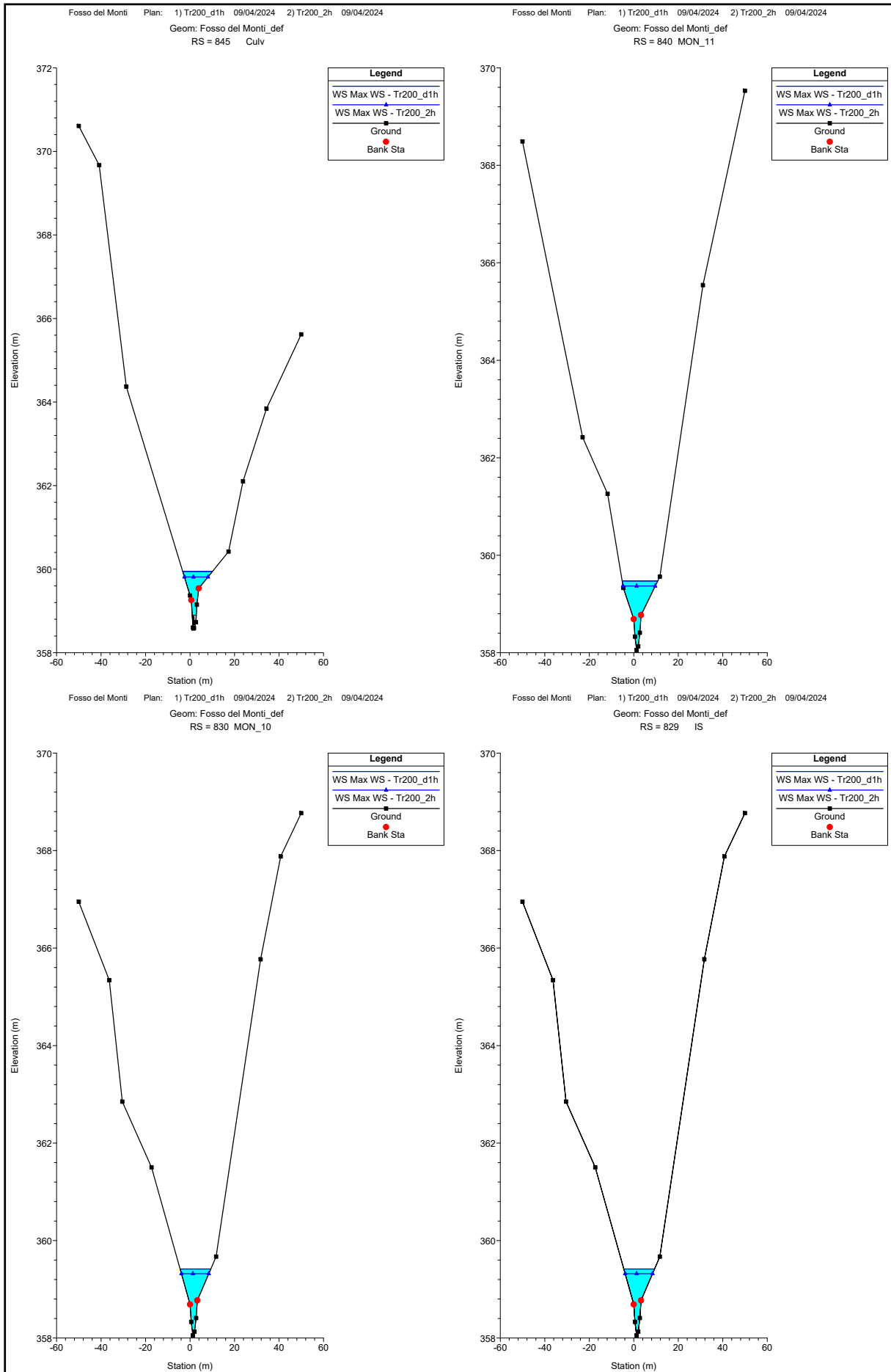
DURATE DI PIOGGIA: 1 e 2 h

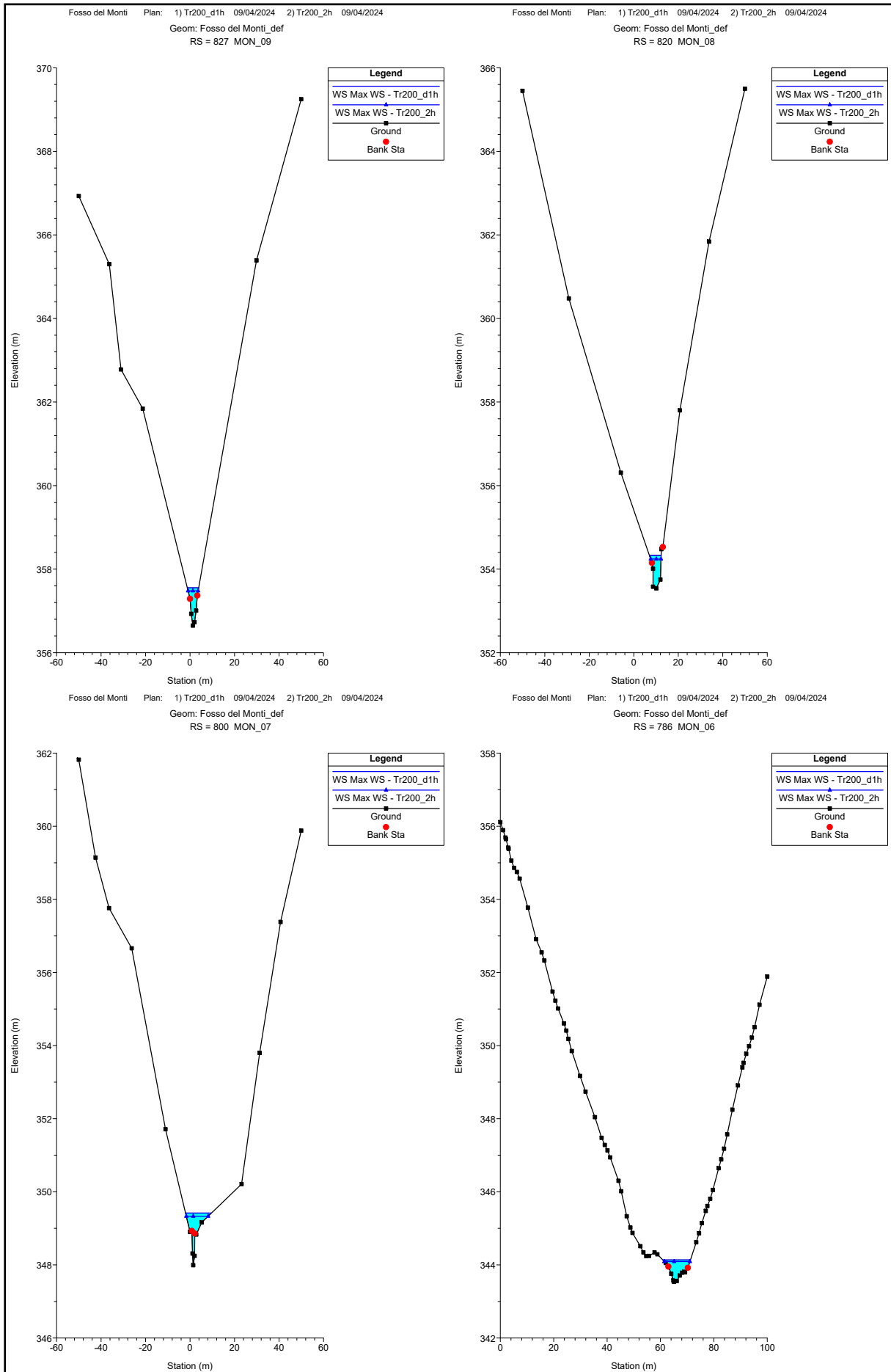
Sezioni Trasversali (da monte verso valle)

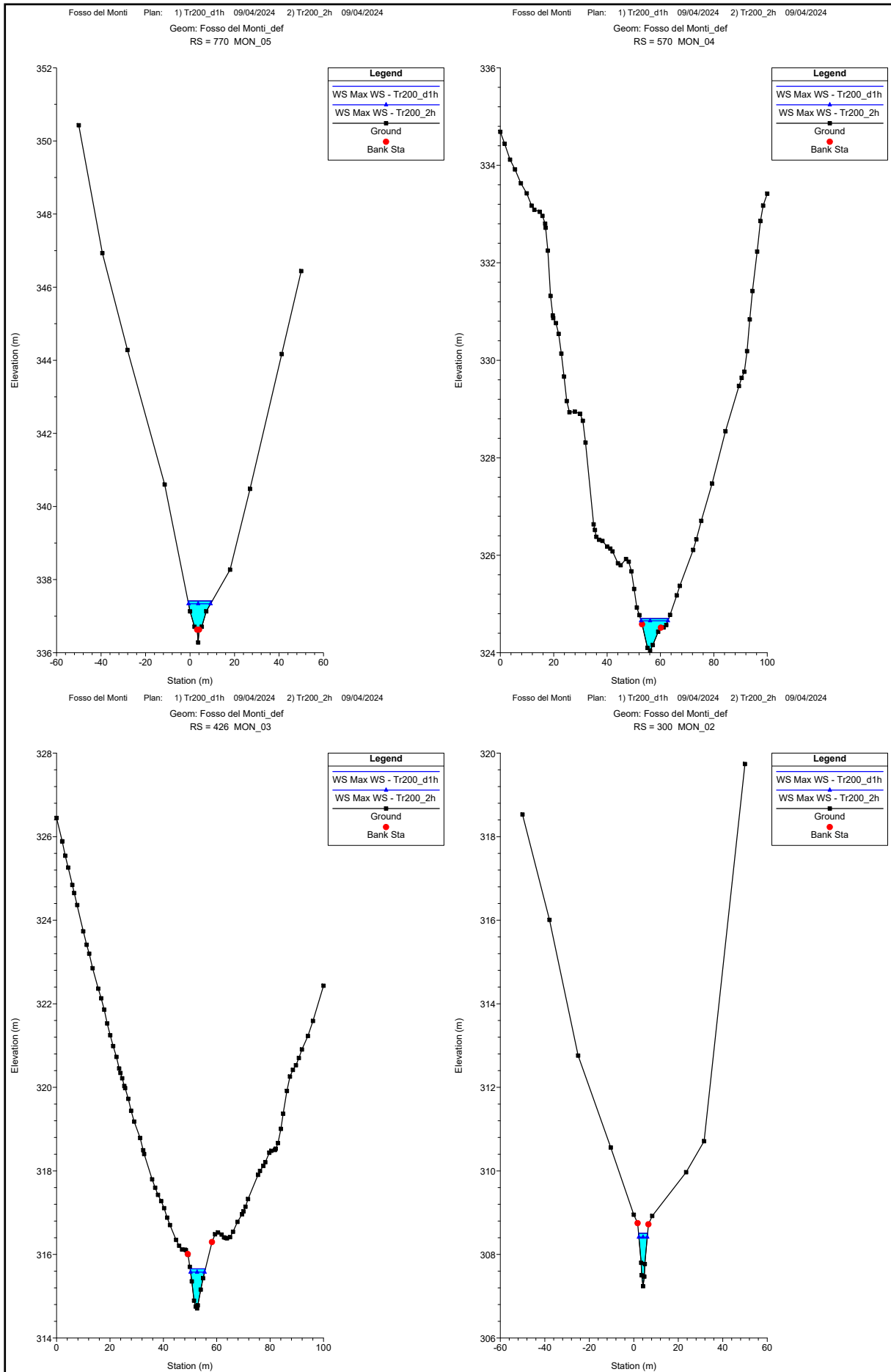


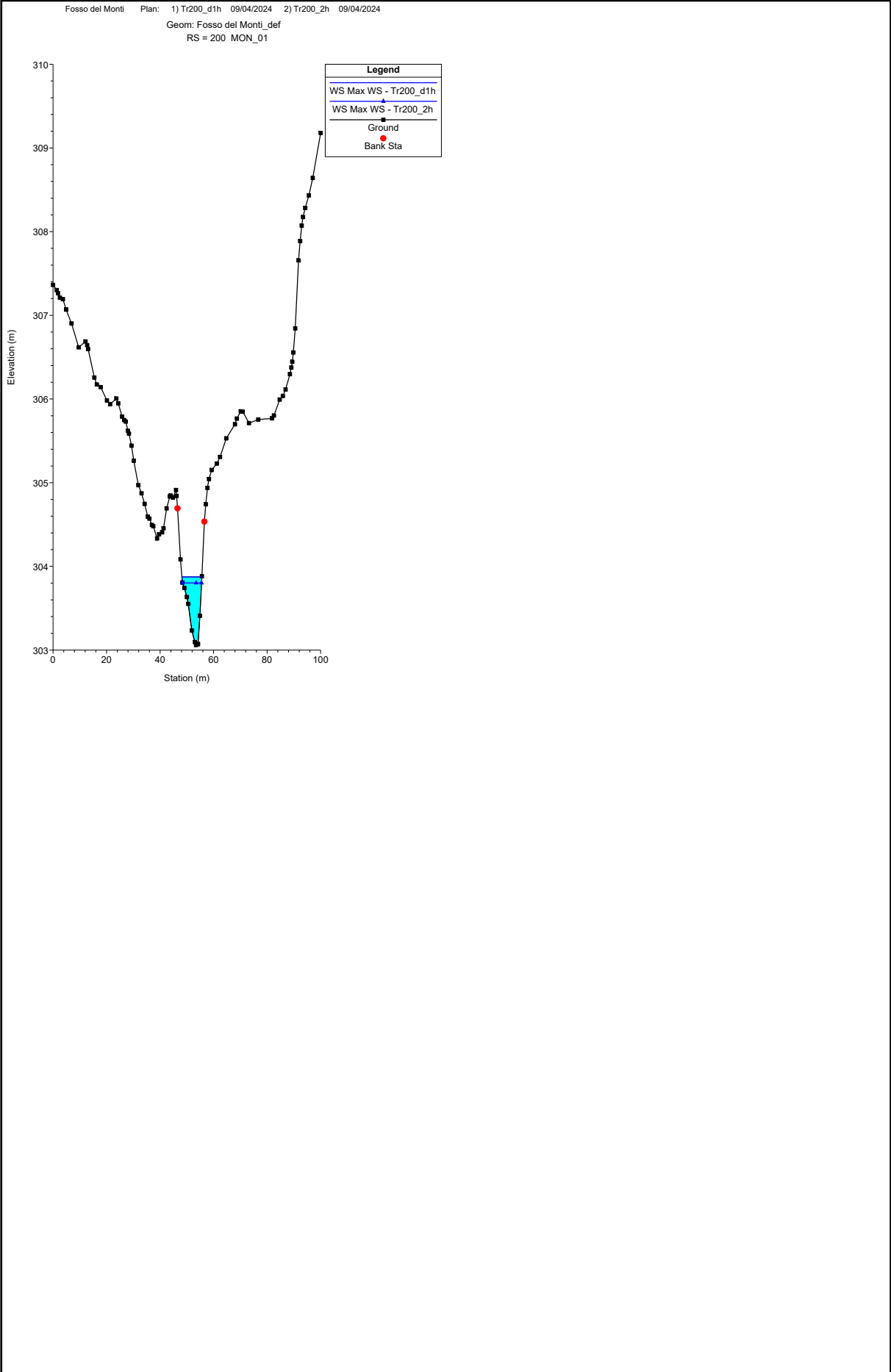












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

Fosso del Monti

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1 e 2 h

Dati idraulici

HEC-RAS River: Fosso dei Monti Reach: Fosso dei Monti 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
Fosso dei Monti	1000	Max WS	Tr200_d1h	10.77	420.80	421.53	421.80	422.43	0.084028	4.22	0.84	0.60	2.69	8.56	1.99
Fosso dei Monti	1000	Max WS	Tr200_2h	8.58	420.80	421.48	421.74	422.21	0.079756	3.80	0.62	0.41	2.30	6.99	1.91
Fosso dei Monti	990	Max WS	Tr200_d1h	10.69	400.84	402.07	402.32	402.86	0.052641	3.95			2.71	3.97	1.53
Fosso dei Monti	990	Max WS	Tr200_2h	8.56	400.84	401.96	402.18	402.67	0.052614	3.74			2.29	3.66	1.51
Fosso dei Monti	970	Max WS	Tr200_d1h	10.69	393.16	395.20		395.29	0.002594	1.48	0.55	0.42	10.94	16.76	0.38
Fosso dei Monti	970	Max WS	Tr200_2h	8.54	393.16	395.15		395.21	0.001951	1.26	0.46	0.35	10.12	15.99	0.33
Fosso dei Monti	967			Culvert											
Fosso dei Monti	965	Max WS	Tr200_d1h	10.69	392.68	393.88	394.18	394.84	0.060321	4.32	0.62		2.49	3.67	1.62
Fosso dei Monti	965	Max WS	Tr200_2h	8.55	392.68	393.78	394.03	394.60	0.060135	4.02	0.22		2.13	3.34	1.59
Fosso dei Monti	950	Max WS	Tr200_d1h	10.68	385.74	386.96	387.23	387.68	0.042965	3.80	0.69	0.44	3.08	7.70	1.41
Fosso dei Monti	950	Max WS	Tr200_2h	8.55	385.74	386.87	387.10	387.50	0.043720	3.52	0.30		2.48	5.87	1.39
Fosso dei Monti	930	Max WS	Tr200_d1h	10.67	383.96	385.53		385.72	0.008977	2.22	0.40	0.68	8.17	27.49	0.66
Fosso dei Monti	930	Max WS	Tr200_2h	8.54	383.96	385.41		385.63	0.010748	2.26	0.30	0.63	5.32	17.07	0.70
Fosso dei Monti	925			Culvert											
Fosso dei Monti	920	Max WS	Tr200_d1h	10.67	383.36	384.54	384.96	385.48	0.056998	4.29	0.51	0.74	2.56	4.51	1.55
Fosso dei Monti	920	Max WS	Tr200_2h	8.54	383.36	384.45	384.89	385.24	0.056694	3.93		0.42	2.19	3.50	1.51
Fosso dei Monti	910	Max WS	Tr200_d1h	10.66	381.42	382.65	382.82	383.17	0.052970	3.91	0.70	1.45	4.53	15.73	1.47
Fosso dei Monti	910	Max WS	Tr200_2h	8.54	381.42	382.59	382.75	383.09	0.053311	3.70	0.51	1.33	3.67	13.57	1.45
Fosso dei Monti	900	Max WS	Tr200_d1h	10.59	367.11	368.22	368.60	369.58	0.074602	5.32	1.40	1.45	2.33	4.59	1.81
Fosso dei Monti	900	Max WS	Tr200_2h	8.54	367.11	368.12	368.53	369.32	0.073953	4.92	1.13	1.25	1.93	3.97	1.77
Fosso dei Monti	850	Max WS	Tr200_d1h	10.56	358.58	359.94		360.28	0.013998	2.73	0.57	0.41	5.97	13.37	0.86
Fosso dei Monti	850	Max WS	Tr200_2h	8.53	358.58	359.81		360.15	0.015961	2.66	0.53	0.33	4.39	10.59	0.90
Fosso dei Monti	845			Culvert											
Fosso dei Monti	840	Max WS	Tr200_d1h	10.56	358.05	359.47		359.67	0.007206	2.21	0.47	0.42	8.64	15.97	0.65
Fosso dei Monti	840	Max WS	Tr200_2h	8.53	358.05	359.37		359.55	0.007018	2.05	0.41	0.37	7.08	14.50	0.63
Fosso dei Monti	830	Max WS	Tr200_d1h	10.55	358.05	359.42	359.33	359.67	0.009378	2.44	0.49	0.45	7.23	13.82	0.74
Fosso dei Monti	830	Max WS	Tr200_2h	8.53	358.05	359.32	359.22	359.54	0.008916	2.24	0.43	0.40	5.97	12.33	0.71
Fosso dei Monti	829			Inl Struct											
Fosso dei Monti	827	Max WS	Tr200_d1h	10.55	356.65	357.55	357.94	358.77	0.077869	4.91	0.71	0.55	2.34	5.11	1.95
Fosso dei Monti	827	Max WS	Tr200_2h	8.53	356.65	357.46	357.81	358.51	0.076925	4.50	0.57	0.39	1.99	4.53	1.90
Fosso dei Monti	820	Max WS	Tr200_d1h	10.54	353.54	354.33	354.61	355.15	0.060215	4.03	0.49		2.70	5.27	1.62
Fosso dei Monti	820	Max WS	Tr200_2h	8.53	353.54	354.24	354.51	354.97	0.062727	3.79	0.32		2.28	4.66	1.63
Fosso dei Monti	800	Max WS	Tr200_d1h	10.51	347.99	349.42	349.69	350.23	0.070022	4.77	1.25	1.09	4.44	11.66	1.40
Fosso dei Monti	800	Max WS	Tr200_2h	8.52	347.99	349.33	349.61	350.13	0.070373	4.55	1.13	1.00	3.50	9.83	1.39
Fosso dei Monti	786	Max WS	Tr200_d1h	10.47	343.53	344.14	344.32	344.73	0.062222	3.43	0.49	0.56	3.30	10.41	1.71
Fosso dei Monti	786	Max WS	Tr200_2h	8.52	343.53	344.09	344.25	344.60	0.062689	3.18	0.41	0.47	2.82	9.58	1.68
Fosso dei Monti	770	Max WS	Tr200_d1h	10.42	336.28	337.42	337.63	338.04	0.062245	5.16	1.52	1.31	5.14	10.91	1.68
Fosso dei Monti	770	Max WS	Tr200_2h	8.51	336.28	337.34	337.53	337.93	0.062178	4.87	1.42	1.24	4.32	9.92	1.66
Fosso dei Monti	570	Max WS	Tr200_d1h	10.41	324.04	324.70	324.88	325.26	0.056447	3.35	0.36	0.64	3.47	10.61	1.63
Fosso dei Monti	570	Max WS	Tr200_2h	8.49	324.04	324.65	324.80	325.14	0.056433	3.10	0.26	0.53	2.98	10.03	1.60
Fosso dei Monti	426	Max WS	Tr200_d1h	10.39	314.71	315.66	315.66	316.29	0.052633	3.54			2.94	5.72	1.58
Fosso dei Monti	426	Max WS	Tr200_2h	8.47	314.71	315.58	315.76	316.16	0.052792	3.38			2.51	5.25	1.56
Fosso dei Monti	300	Max WS	Tr200_d1h	10.37	307.24	308.51	308.76	309.31	0.057405	3.96			2.62	4.07	1.58
Fosso dei Monti	300	Max WS	Tr200_2h	8.47	307.24	308.42	308.64	309.13	0.056701	3.75			2.26	3.76	1.55
Fosso dei Monti	200	Max WS	Tr200_d1h	10.35	303.06	303.87	304.01	304.34	0.043707	3.03			3.42	7.46	1.43
Fosso dei Monti	200	Max WS	Tr200_2h	8.47	303.06	303.80	303.92	304.24	0.047931	2.93			2.89	7.14	1.47

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

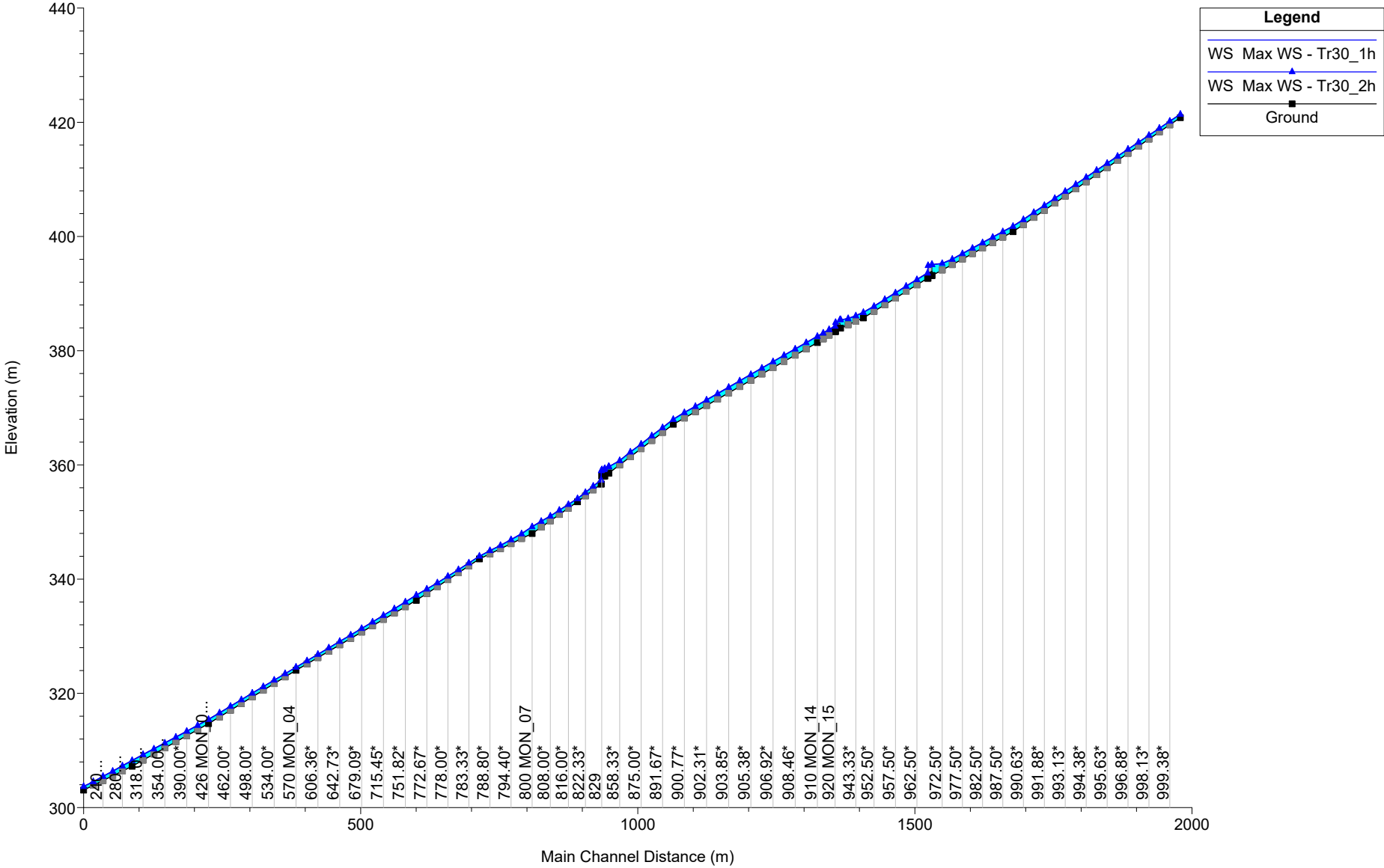
Fosso del Monti

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1 e 2 h

Profilo longitudinale

Fosso del Monti Plan: 1) Tr30_1h 09/04/2024 2) Tr30_2h 09/04/2024



ALLEGATI

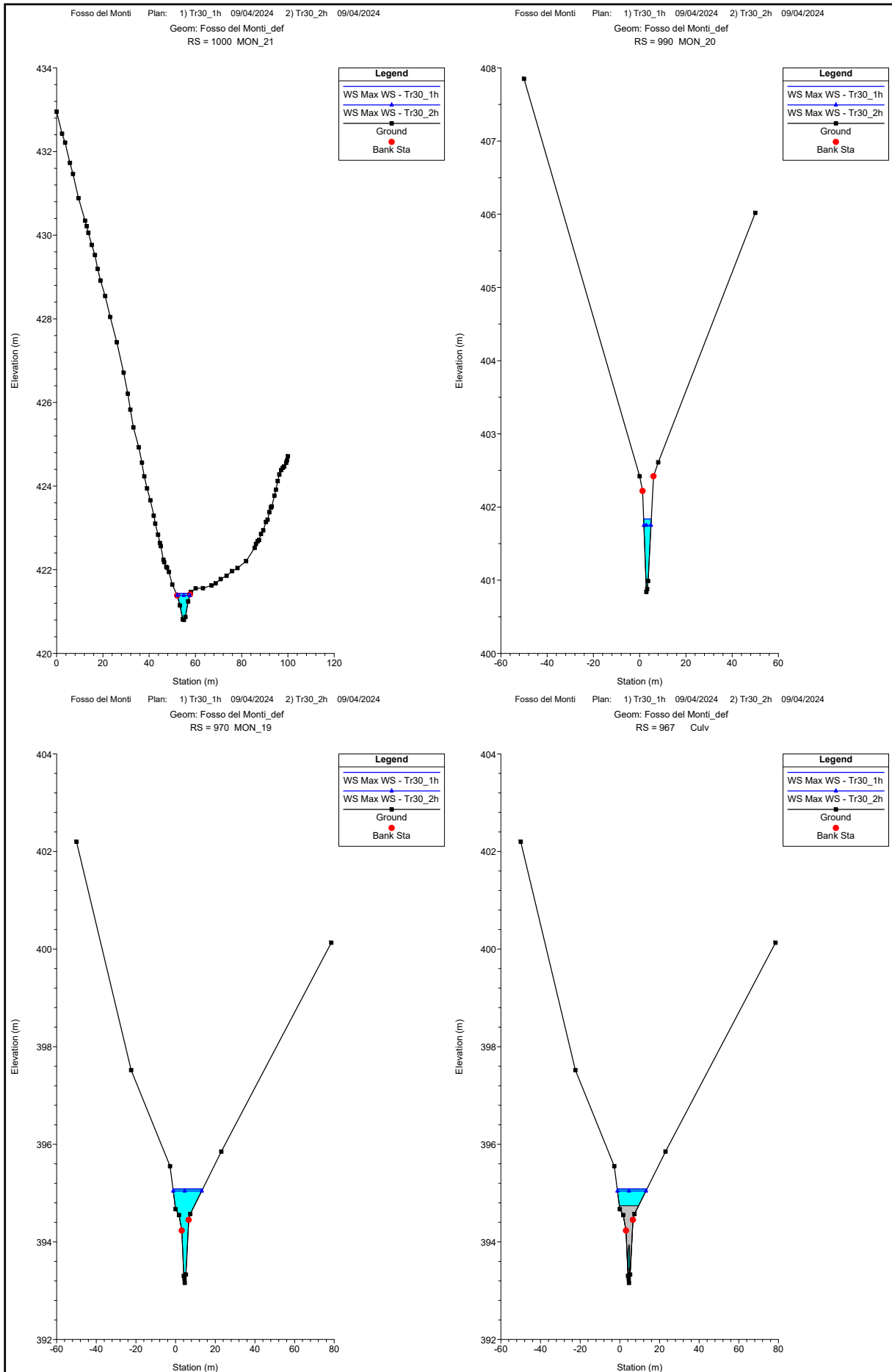
MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

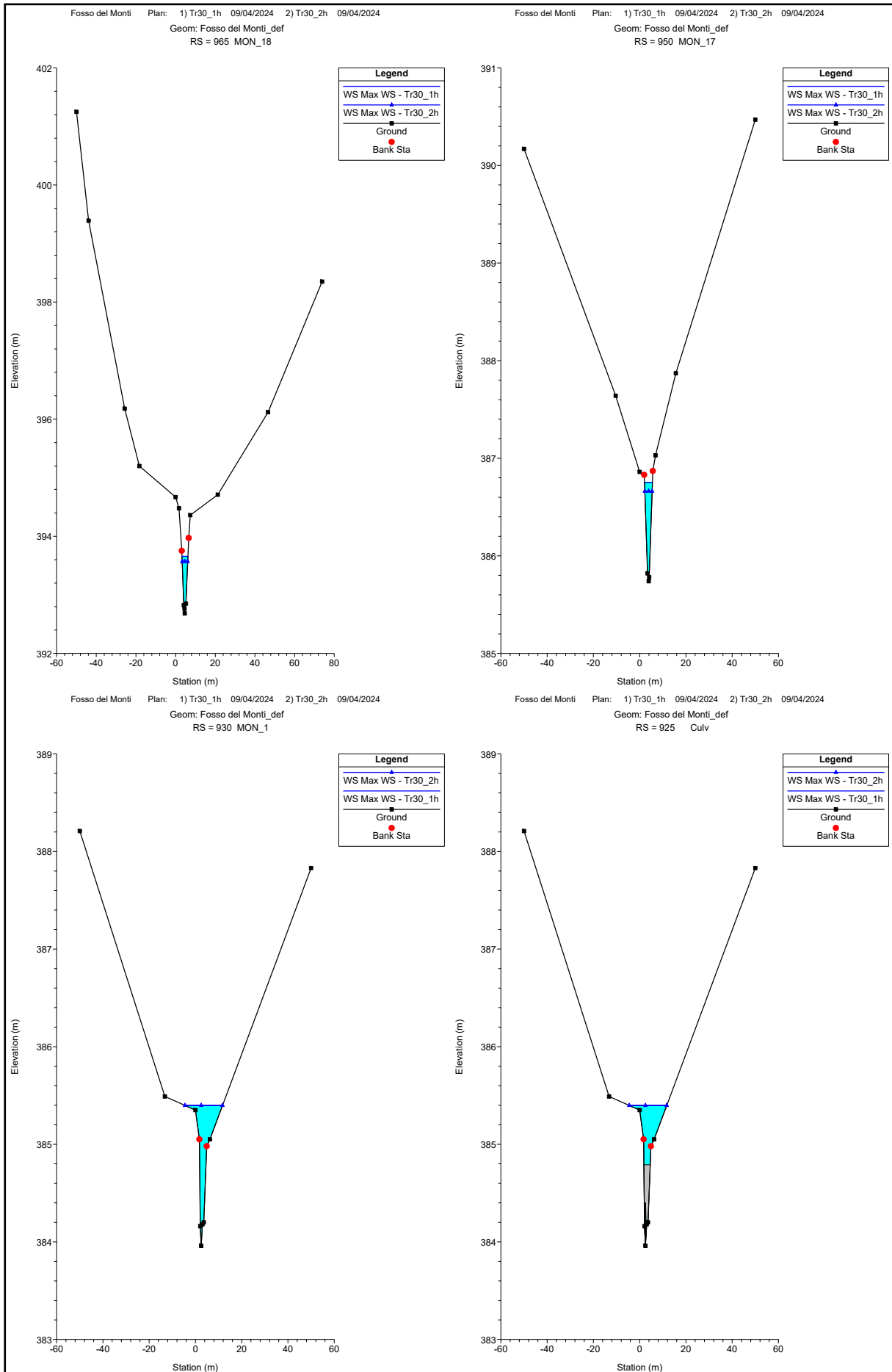
Fosso del Monti

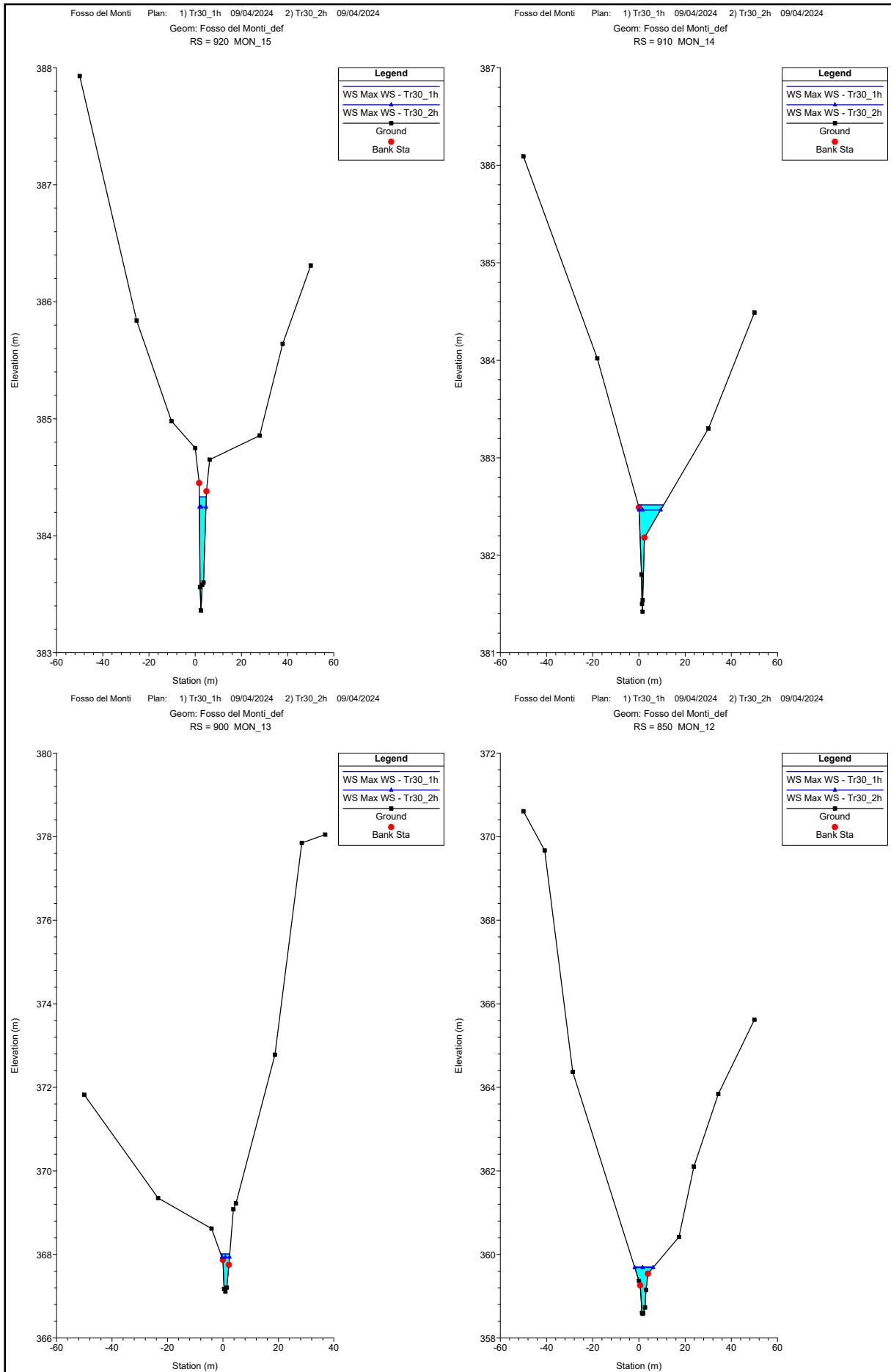
MODELLAZIONE PER TR= 30 anni

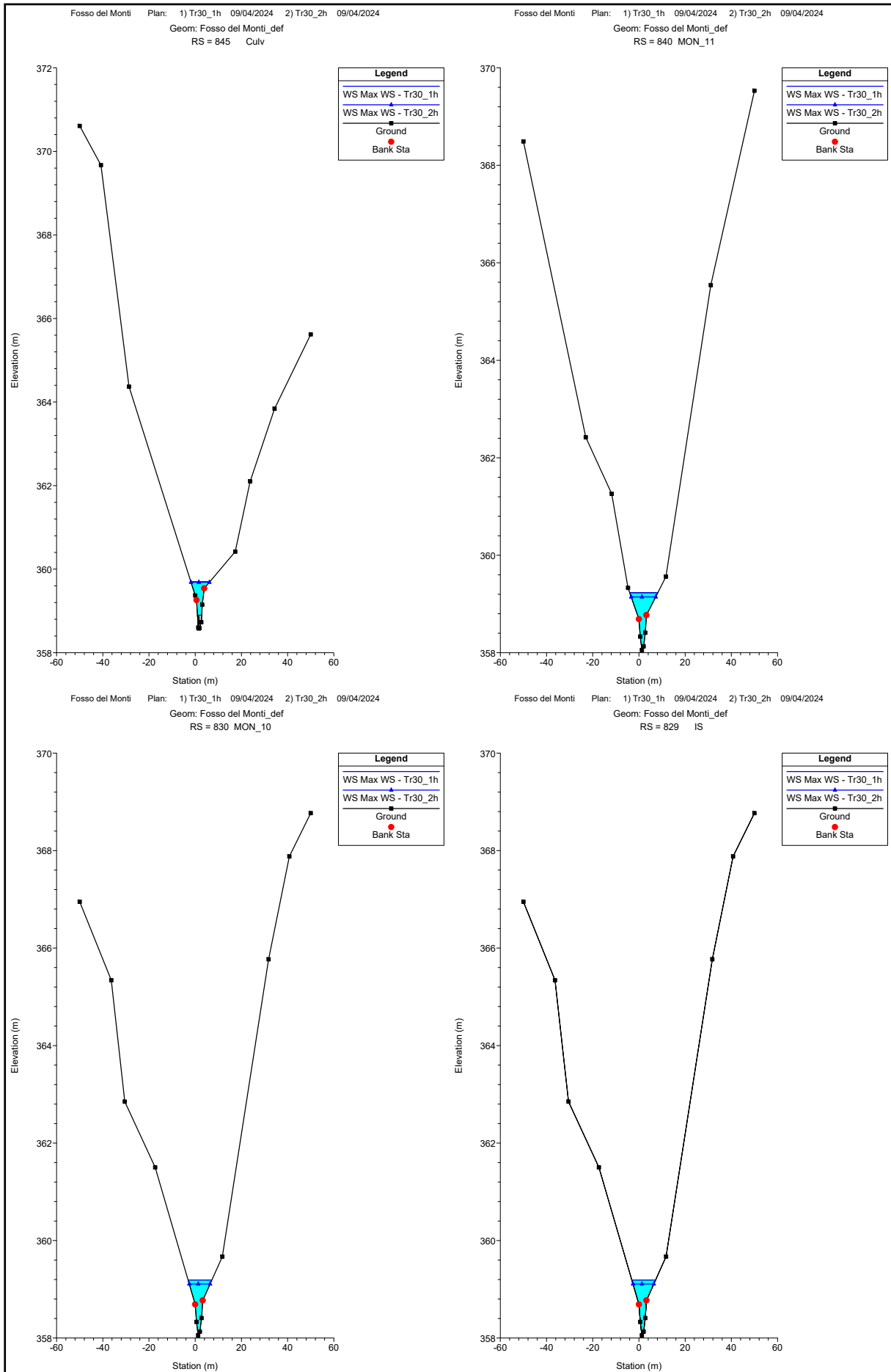
DURATE DI PIOGGIA: 1 e 2 h

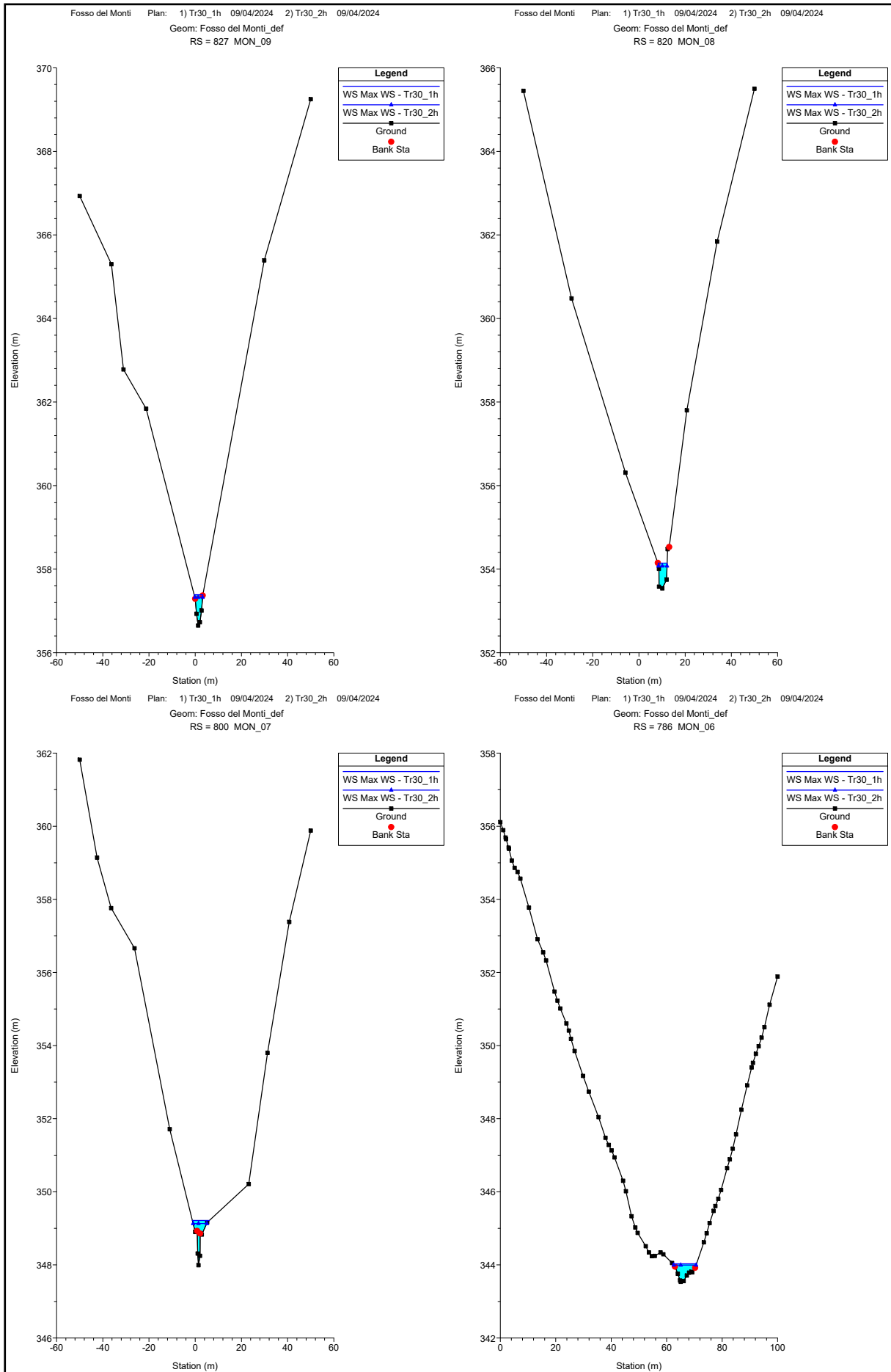
Sezioni Trasversali (da monte verso valle)

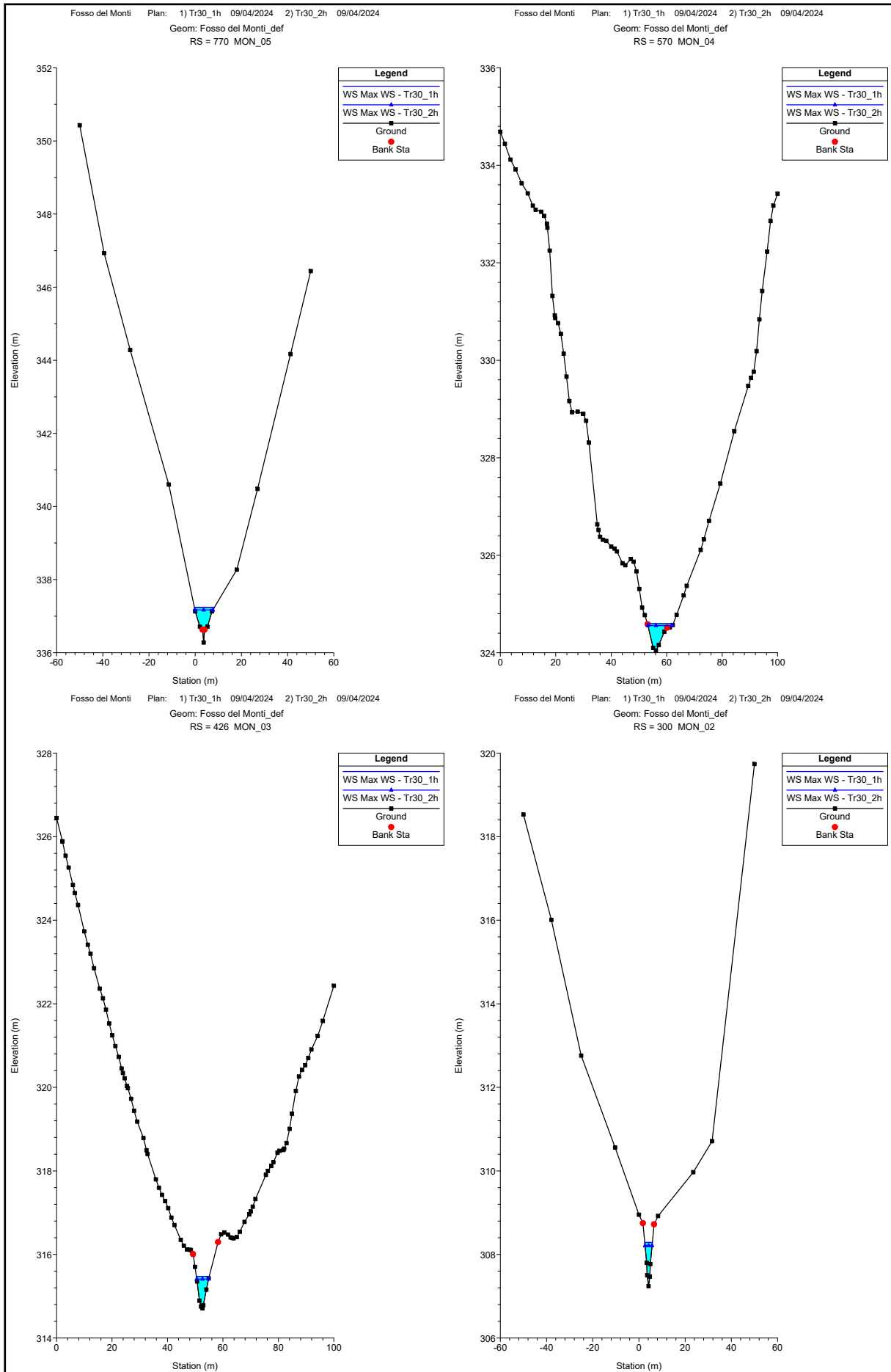


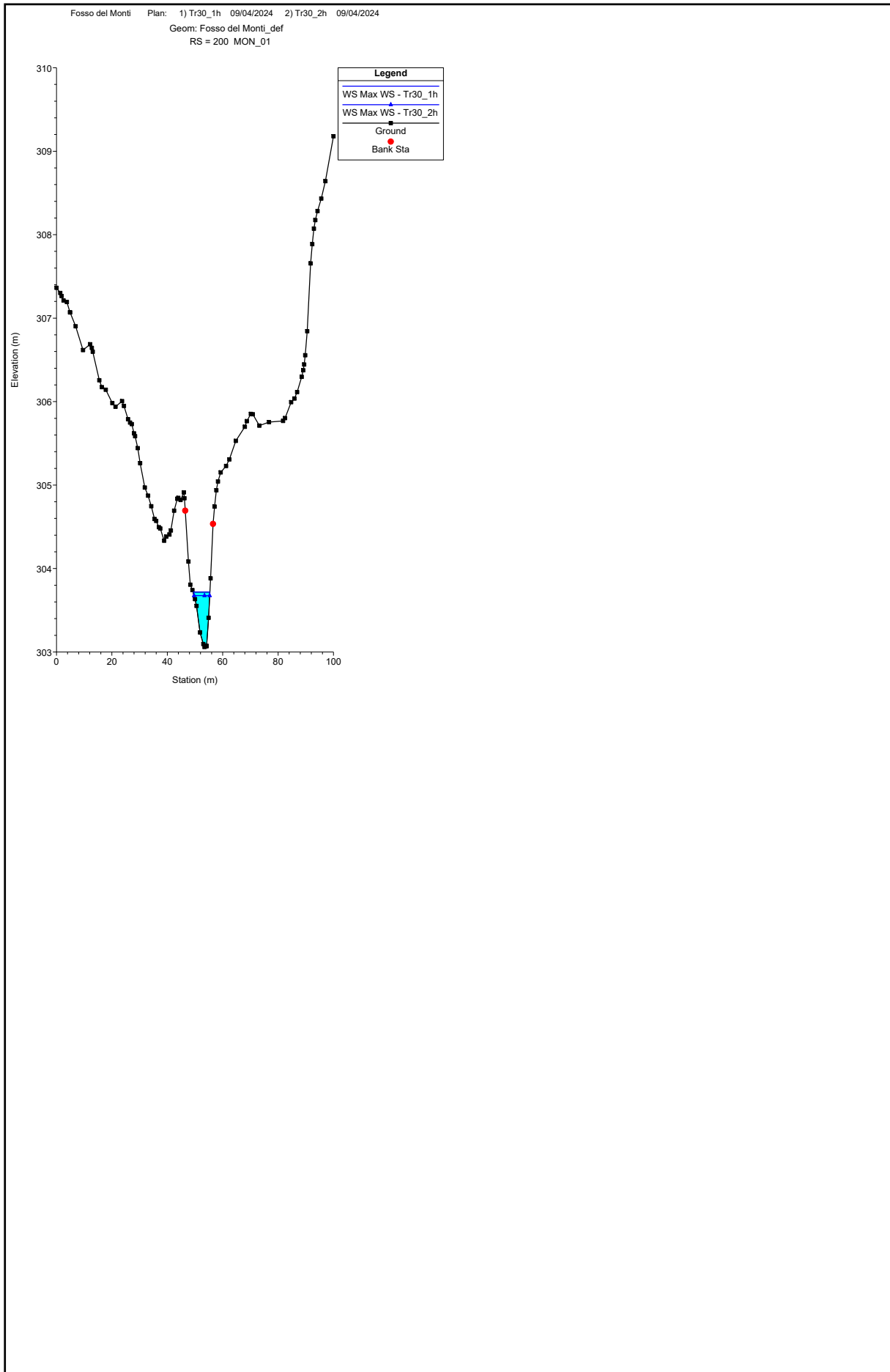












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "FOSSO DEL MONTI"

Fosso del Monti

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1 e 2 h

Dati idraulici

HEC-RAS River: Fosso del Monti Reach: Fosso del Monti 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
Fosso del Monti	1000	Max WS	Tr30_1h	6.53	420.80	421.43	421.65	421.99	0.071648	3.31	0.37	0.21	1.98	6.06	1.77
Fosso del Monti	1000	Max WS	Tr30_2h	5.25	420.80	421.39	421.52	421.85	0.069953	3.03	0.06		1.73	5.45	1.71
Fosso del Monti	990	Max WS	Tr30_1h	6.52	400.84	401.84	402.03	402.46	0.052821	3.50			1.86	3.32	1.49
Fosso del Monti	990	Max WS	Tr30_2h	5.24	400.84	401.75	401.92	402.31	0.052829	3.31			1.58	3.06	1.47
Fosso del Monti	970	Max WS	Tr30_1h	6.51	393.16	395.08		395.13	0.001400	1.03	0.37	0.27	9.13	15.01	0.28
Fosso del Monti	970	Max WS	Tr30_2h	5.24	393.16	395.04		395.08	0.001042	0.87	0.31	0.22	8.54	14.38	0.24
Fosso del Monti	967				Culvert										
Fosso del Monti	965	Max WS	Tr30_1h	6.51	392.68	393.66	393.88	394.37	0.060430	3.74			1.74	3.02	1.57
Fosso del Monti	965	Max WS	Tr30_2h	5.24	392.68	393.57	393.77	394.21	0.060360	3.54			1.48	2.80	1.55
Fosso del Monti	950	Max WS	Tr30_1h	6.49	385.74	386.75	386.94	387.29	0.043482	3.26			1.99	3.42	1.36
Fosso del Monti	950	Max WS	Tr30_2h	5.23	385.74	386.66	386.80	387.15	0.043574	3.09			1.69	3.17	1.35
Fosso del Monti	930	Max WS	Tr30_1h	4.94	383.96	385.40		385.48	0.003722	1.32	0.18	0.36	5.19	16.20	0.41
Fosso del Monti	930	Max WS	Tr30_2h	4.86	383.96	385.40		385.47	0.003606	1.30	0.17	0.36	5.20	16.23	0.41
Fosso del Monti	925				Culvert										
Fosso del Monti	920	Max WS	Tr30_1h	6.49	383.36	384.33	384.54	384.99	0.056156	3.59			1.81	3.02	1.48
Fosso del Monti	920	Max WS	Tr30_2h	5.23	383.36	384.24	384.41	384.82	0.055375	3.37			1.55	2.85	1.46
Fosso del Monti	910	Max WS	Tr30_1h	6.49	381.42	382.52	382.68	382.99	0.053916	3.45	0.22	1.18	2.81	11.01	1.44
Fosso del Monti	910	Max WS	Tr30_2h	5.23	381.42	382.46	382.62	382.92	0.054159	3.29		1.05	2.27	9.34	1.42
Fosso del Monti	900	Max WS	Tr30_1h	6.43	367.11	368.01	368.35	369.00	0.073379	4.43	0.76	0.98	1.53	3.23	1.72
Fosso del Monti	900	Max WS	Tr30_2h	5.22	367.11	367.94	368.23	368.78	0.073240	4.08	0.46	0.78	1.31	2.72	1.69
Fosso del Monti	850	Max WS	Tr30_1h	6.42	358.58	359.70		359.97	0.015170	2.37	0.44	0.23	3.32	8.21	0.85
Fosso del Monti	850	Max WS	Tr30_2h	5.21	358.58	359.69		359.87	0.010595	1.96	0.36	0.18	3.22	7.96	0.71
Fosso del Monti	845				Culvert										
Fosso del Monti	840	Max WS	Tr30_1h	6.36	358.05	359.23		359.39	0.006940	1.86	0.35	0.31	5.25	12.18	0.62
Fosso del Monti	840	Max WS	Tr30_2h	5.19	358.05	359.15		359.29	0.006877	1.73	0.31	0.27	4.26	10.62	0.60
Fosso del Monti	830	Max WS	Tr30_1h	6.36	358.05	359.19	359.06	359.38	0.008579	2.00	0.37	0.33	4.50	10.31	0.68
Fosso del Monti	830	Max WS	Tr30_2h	5.19	358.05	359.11	358.96	359.27	0.008392	1.86	0.32	0.28	3.70	9.02	0.66
Fosso del Monti	829				Int Struct										
Fosso del Monti	827	Max WS	Tr30_1h	6.41	356.65	357.39	357.65	358.22	0.078046	4.04	0.37	0.13	1.61	3.80	1.86
Fosso del Monti	827	Max WS	Tr30_2h	5.21	356.65	357.33	357.55	358.05	0.078869	3.77	0.20		1.39	3.38	1.83
Fosso del Monti	820	Max WS	Tr30_1h	6.40	353.54	354.15	354.33	354.75	0.064212	3.44			1.86	3.99	1.61
Fosso del Monti	820	Max WS	Tr30_2h	5.21	353.54	354.08	354.24	354.62	0.064953	3.27			1.59	3.73	1.60
Fosso del Monti	800	Max WS	Tr30_1h	6.38	347.99	349.21	349.48	349.96	0.070019	4.21	0.94	0.91	2.50	7.37	1.36
Fosso del Monti	800	Max WS	Tr30_2h	5.20	347.99	349.13	349.39	349.83	0.069769	3.96	0.79	0.85	1.97	5.92	1.34
Fosso del Monti	786	Max WS	Tr30_1h	6.36	343.53	344.03	344.15	344.44	0.063387	2.84	0.29	0.36	2.29	8.61	1.64
Fosso del Monti	786	Max WS	Tr30_2h	5.20	343.53	344.00	344.10	344.35	0.063844	2.63	0.20	0.28	2.00	8.08	1.61
Fosso del Monti	770	Max WS	Tr30_1h	6.36	336.28	337.24	337.42	337.77	0.062090	4.49	1.28	1.17	3.37	8.62	1.62
Fosso del Monti	770	Max WS	Tr30_2h	5.19	336.28	337.17	337.34	337.67	0.062070	4.23	1.18	1.13	2.83	7.78	1.60
Fosso del Monti	570	Max WS	Tr30_1h	6.34	324.04	324.60	324.71	324.98	0.056105	2.77	0.08	0.37	2.41	9.31	1.55
Fosso del Monti	570	Max WS	Tr30_2h	5.19	324.04	324.56	324.66	324.90	0.057237	2.59		0.24	2.05	8.71	1.54
Fosso del Monti	426	Max WS	Tr30_1h	6.32	314.71	315.47	315.63	315.98	0.052816	3.16			2.00	4.63	1.53
Fosso del Monti	426	Max WS	Tr30_2h	5.18	314.71	315.41	315.56	315.88	0.052984	3.02			1.72	4.26	1.52
Fosso del Monti	300	Max WS	Tr30_1h	6.29	307.24	308.29	308.48	308.91	0.056014	3.48			1.81	3.33	1.51
Fosso del Monti	300	Max WS	Tr30_2h	5.18	307.24	308.21	308.38	308.77	0.055334	3.31			1.57	3.07	1.48
Fosso del Monti	200	Max WS	Tr30_1h	6.28	303.06	303.72	303.82	304.09	0.043250	2.68			2.34	6.08	1.38
Fosso del Monti	200	Max WS	Tr30_2h	5.17	303.06	303.68	303.76	303.99	0.038736	2.47			2.09	5.66	1.30

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

TS 2834

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1 e 2 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

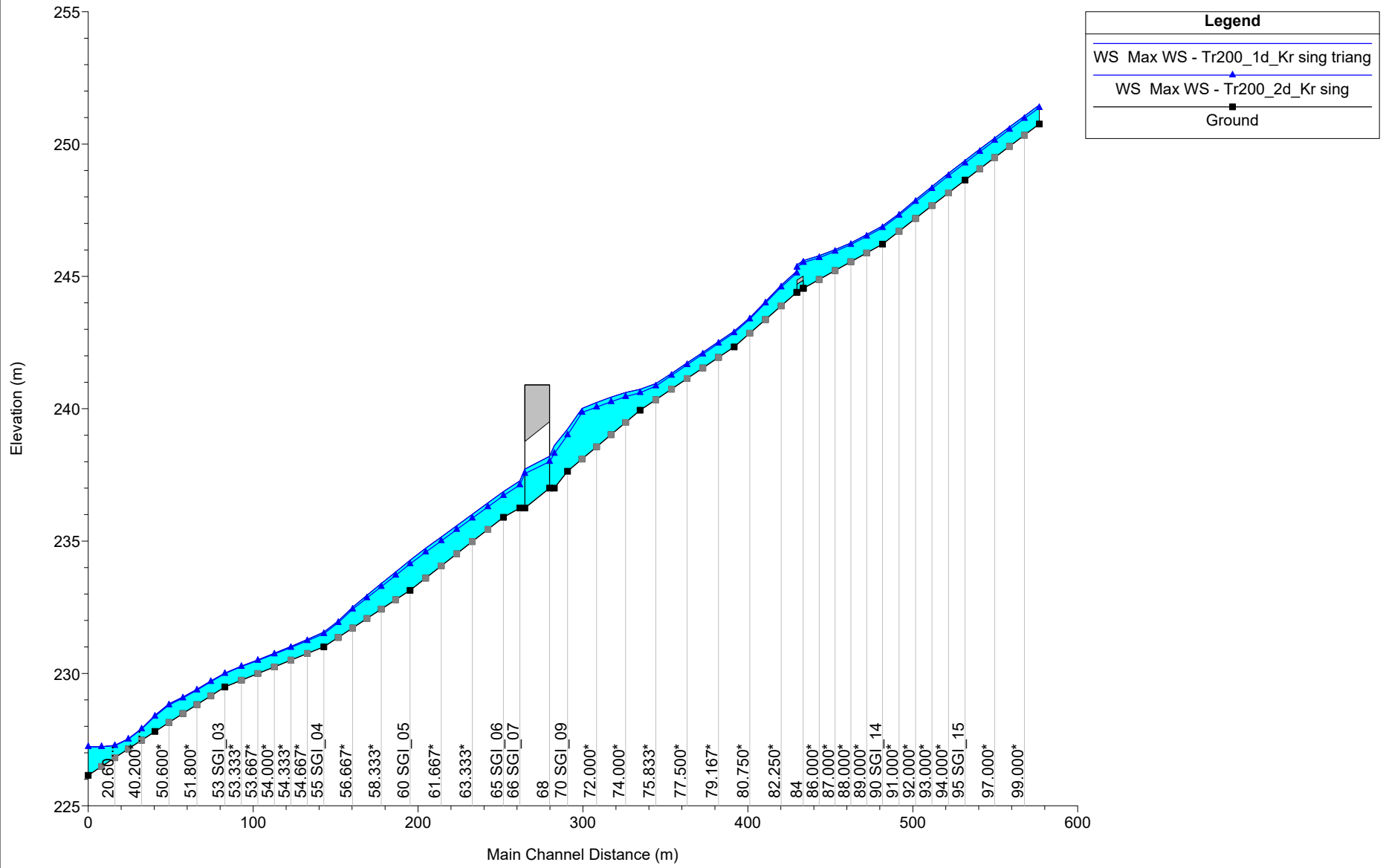
TS 2834

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1 e 2 h

Profilo longitudinale

TS2834 Plan: 1) Tr200_1d_Kr sing triang 09/04/2024 2) Tr200_2d_Kr sing 09/04/2024



ALLEGATI

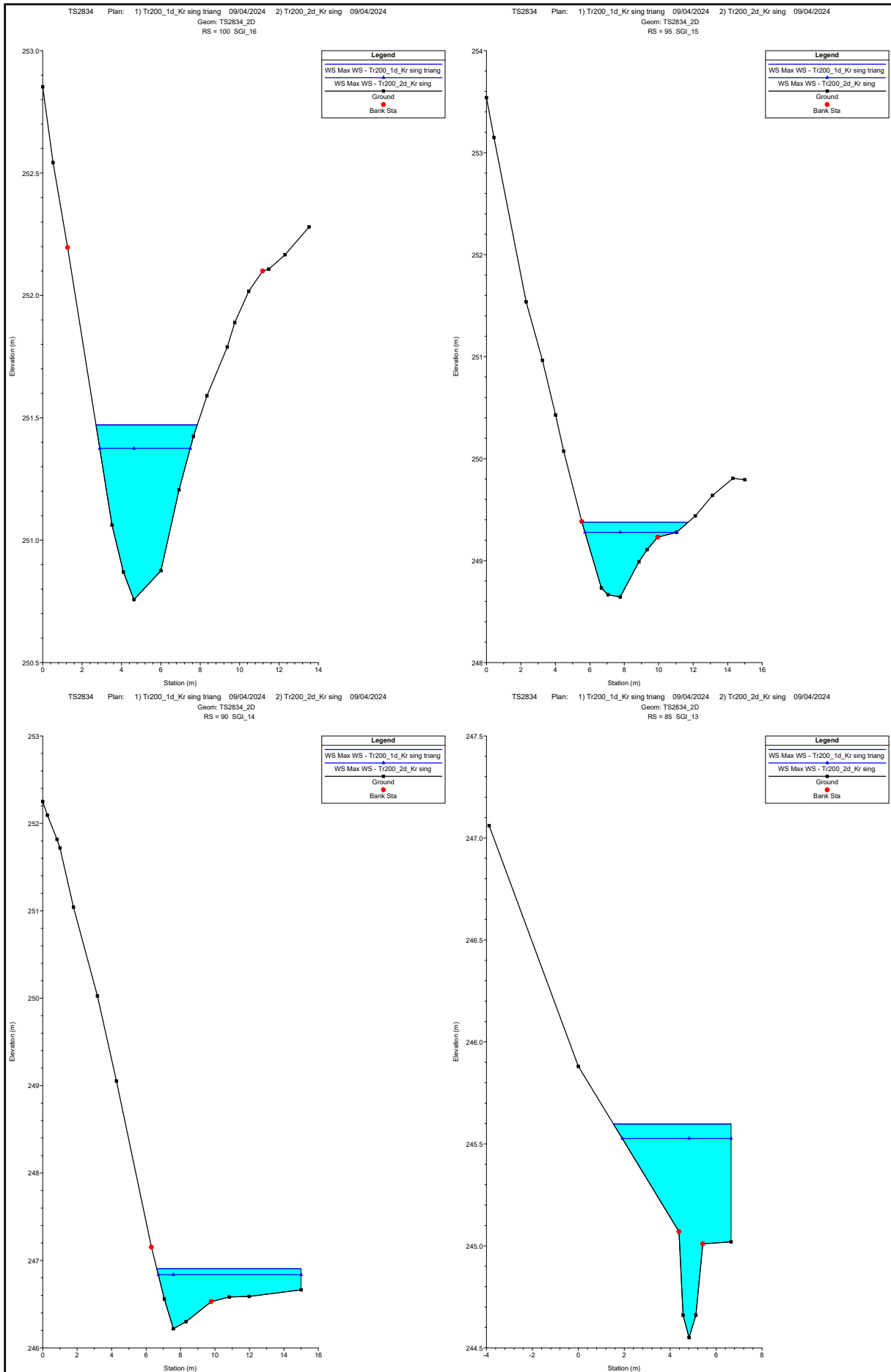
MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

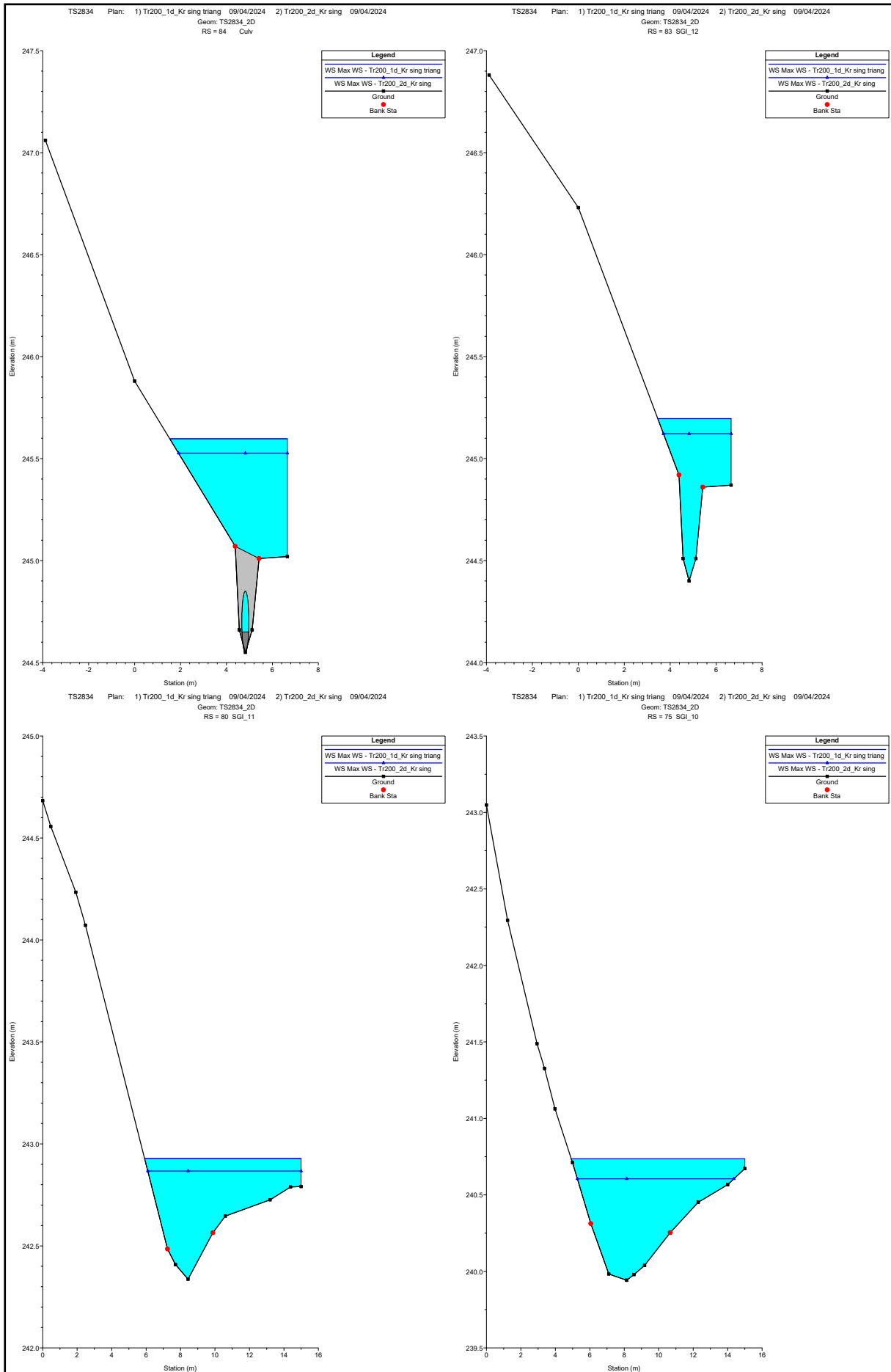
TS 2834

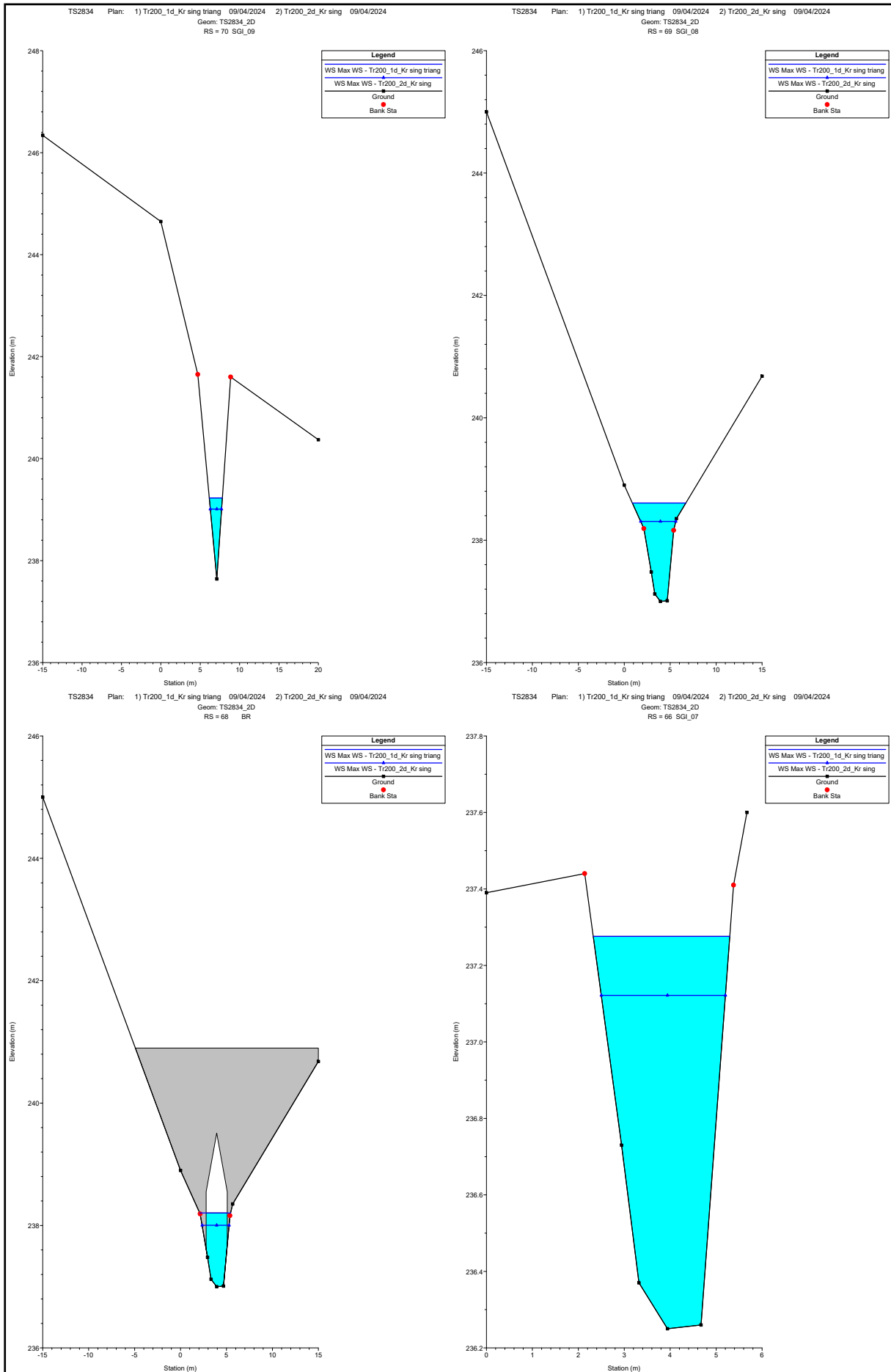
MODELLAZIONE PER TR= 200 anni

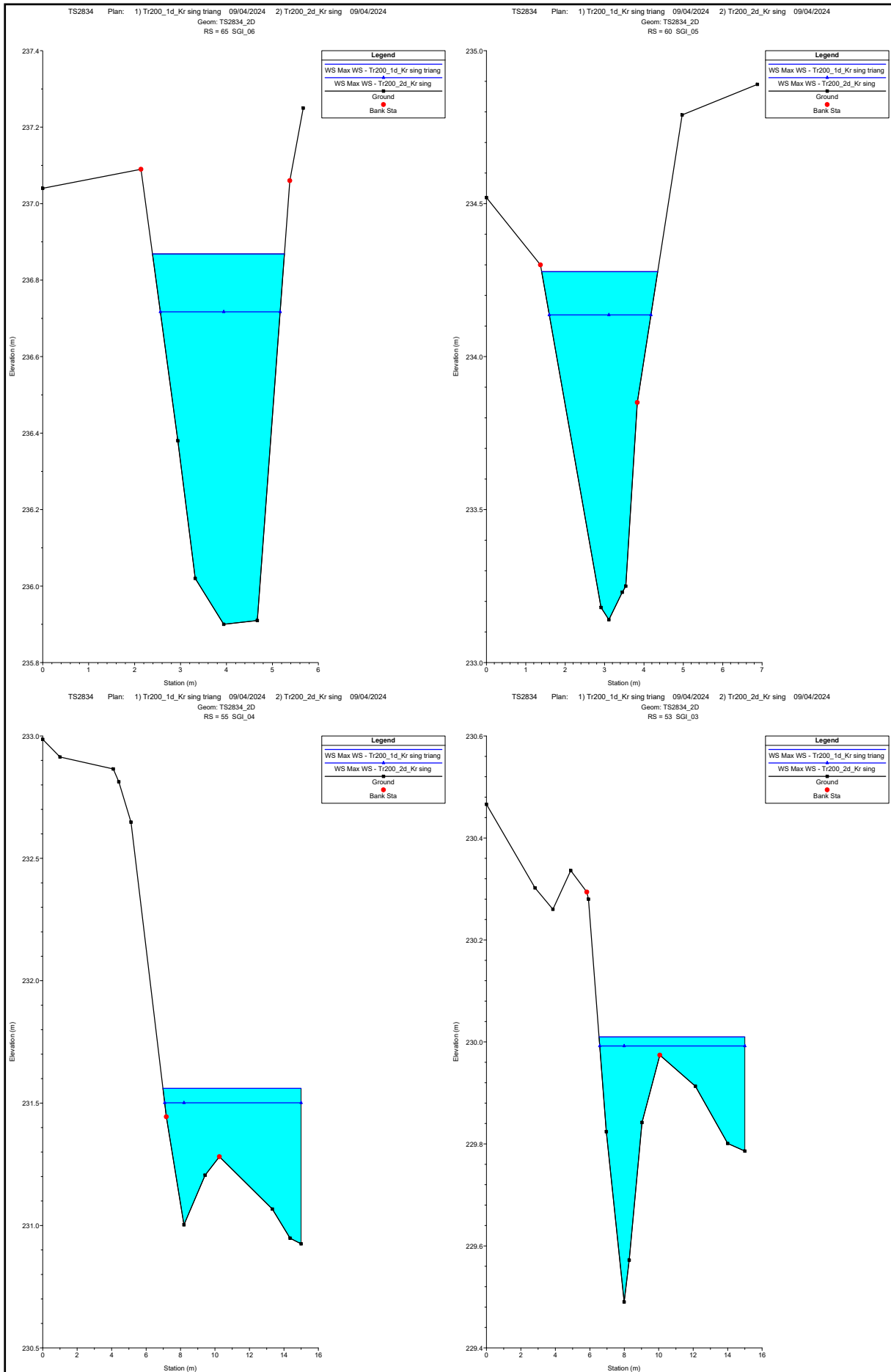
DURATE DI PIOGGIA: 1 e 2 h

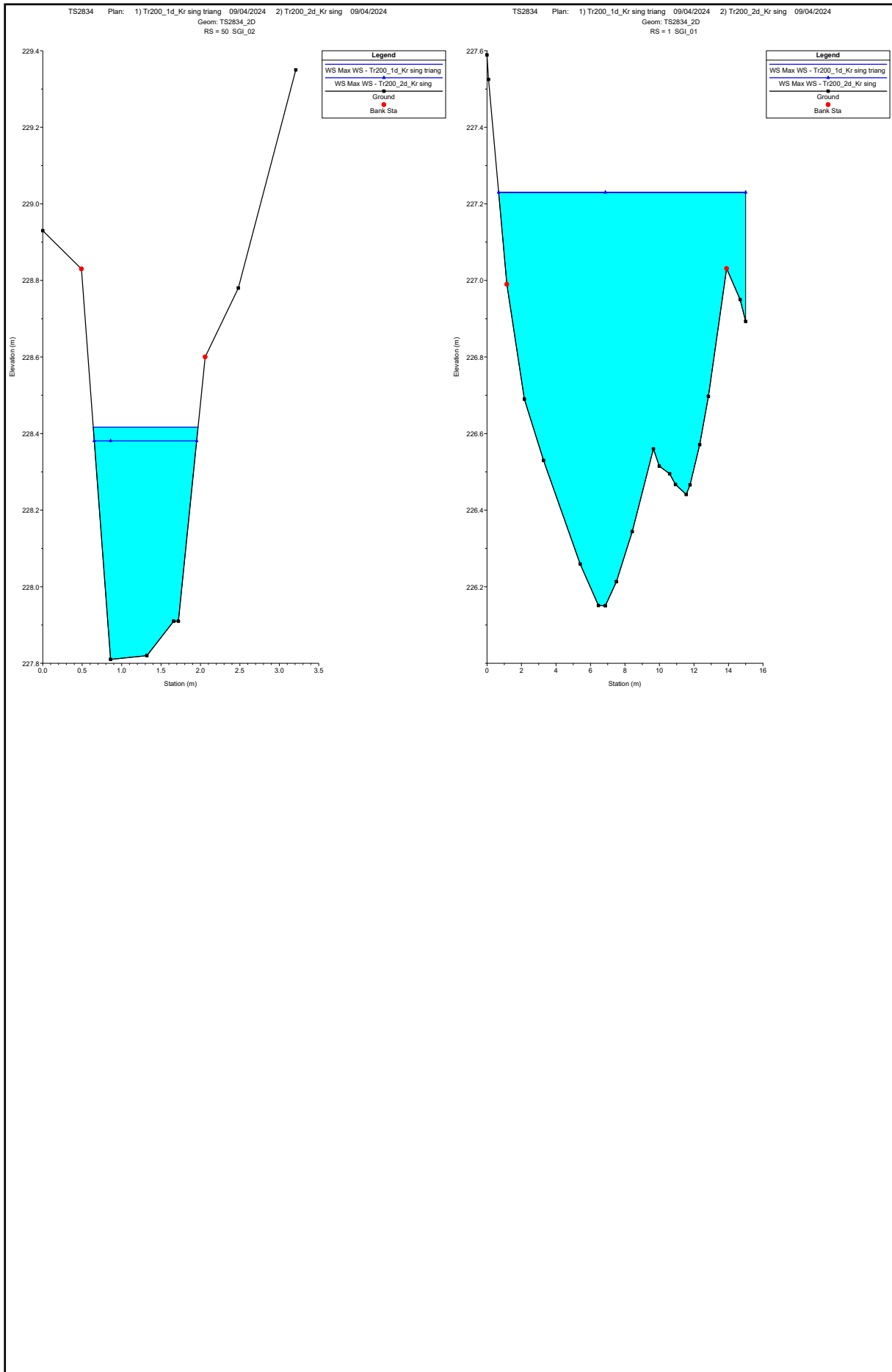
Sezioni Trasversali (da monte verso valle)











ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

TS 2834

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1 e 2 h

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
TS2834	100	Max WS	Tr200_1d_Kr sing triang	7.53	250.76	251.47	251.66	252.06	0.045603	3.38			2.22	5.14	1.64
TS2834	100	Max WS	Tr200_2d_Kr sing	5.49	250.76	251.38	251.53	251.87	0.045612	3.12			1.76	4.60	1.61
TS2834	95	Max WS	Tr200_1d_Kr sing triang	7.53	248.64	249.38	249.58	250.04	0.048826	3.63		0.77	2.20	6.17	1.71
TS2834	95	Max WS	Tr200_2d_Kr sing	5.49	248.64	249.28	249.47	249.87	0.056012	3.42		0.32	1.63	5.32	1.77
TS2834	91.99		Lat Struct												
TS2834	90	Max WS	Tr200_1d_Kr sing triang	7.35	246.22	246.91	247.02	247.32	0.038442	3.30		1.43	3.12	8.38	1.51
TS2834	90	Max WS	Tr200_2d_Kr sing	5.41	246.22	246.84	246.94	247.19	0.036770	2.99		1.19	2.55	8.29	1.45
TS2834	85	Max WS	Tr200_1d_Kr sing triang	2.94	244.55	245.60		245.73	0.009437	1.99	0.66	0.87	2.38	5.12	0.68
TS2834	85	Max WS	Tr200_2d_Kr sing	2.28	244.55	245.53		245.64	0.008211	1.75	0.56	0.77	2.04	4.74	0.62
TS2834	84		Culvert												
TS2834	83	Max WS	Tr200_1d_Kr sing triang	2.94	244.40	245.20	245.34	245.67	0.043751	3.42	0.91	1.43	1.19	3.19	1.38
TS2834	83	Max WS	Tr200_2d_Kr sing	2.27	244.40	245.12	245.25	245.54	0.043891	3.16	0.74	1.25	0.96	2.95	1.35
TS2834	80	Max WS	Tr200_1d_Kr sing triang	6.53	242.34	242.93	243.08	243.44	0.041143	3.62	1.20	1.23	2.76	9.09	1.64
TS2834	80	Max WS	Tr200_2d_Kr sing	4.93	242.34	242.87	243.00	243.32	0.041462	3.33	1.09	1.00	2.21	8.90	1.61
TS2834	75	Max WS	Tr200_1d_Kr sing triang	7.54	239.94	240.74	240.72	240.95	0.010084	2.17	0.57	0.67	4.43	10.08	0.85
TS2834	75	Max WS	Tr200_2d_Kr sing	5.46	239.94	240.61	240.60	240.81	0.012246	2.06	0.49	0.54	3.16	9.09	0.90
TS2834	70	Max WS	Tr200_1d_Kr sing triang	7.60	237.64	239.23	239.76	240.92	0.154893	5.77			1.32	1.66	2.07
TS2834	70	Max WS	Tr200_2d_Kr sing	5.50	237.64	239.01	239.51	240.61	0.178539	5.61			0.98	1.43	2.16
TS2834	69	Max WS	Tr200_1d_Kr sing triang	7.60	237.00	238.61	238.20	238.78	0.004742	1.86	0.39	0.35	4.47	5.83	0.54
TS2834	69	Max WS	Tr200_2d_Kr sing	5.50	237.00	238.31	238.02	238.48	0.006707	1.84	0.20	0.21	3.03	3.81	0.61
TS2834	68		Bridge												
TS2834	66	Max WS	Tr200_1d_Kr sing triang	7.60	236.25	237.28	237.50	237.94	0.036241	3.61			2.11	2.97	1.37
TS2834	66	Max WS	Tr200_2d_Kr sing	5.50	236.25	237.12	237.27	237.68	0.035602	3.30			1.67	2.70	1.34
TS2834	65	Max WS	Tr200_1d_Kr sing triang	7.60	235.90	236.87	237.15	237.65	0.045268	3.92			1.94	2.87	1.52
TS2834	65	Max WS	Tr200_2d_Kr sing	5.50	235.90	236.72	236.92	237.38	0.045507	3.61			1.52	2.61	1.51
TS2834	60	Max WS	Tr200_1d_Kr sing triang	7.60	233.14	234.28	234.59	235.22	0.051662	4.32		1.14	1.84	2.95	1.64
TS2834	60	Max WS	Tr200_2d_Kr sing	5.50	233.14	234.14	234.38	234.91	0.050287	3.90		0.86	1.45	2.58	1.58
TS2834	59.99		Lat Struct												
TS2834	55	Max WS	Tr200_1d_Kr sing triang	6.19	231.00	231.56	231.55	231.77	0.028629	2.47	0.38	1.53	3.33	8.02	1.28
TS2834	55	Max WS	Tr200_2d_Kr sing	4.70	231.00	231.50	231.47	231.66	0.027328	2.16	0.23	1.37	2.86	7.92	1.22
TS2834	53	Max WS	Tr200_1d_Kr sing triang	2.20	229.49	230.01	230.05	230.17	0.032605	1.98		0.75	1.51	8.46	1.27
TS2834	53	Max WS	Tr200_2d_Kr sing	1.95	229.49	229.99	230.04	230.15	0.033790	1.93		0.69	1.36	8.42	1.28
TS2834	50	Max WS	Tr200_1d_Kr sing triang	2.20	227.81	228.42	228.61	229.05	0.075257	3.51			0.62	1.33	1.64
TS2834	50	Max WS	Tr200_2d_Kr sing	1.95	227.81	228.38	228.56	228.96	0.073005	3.37			0.58	1.30	1.61
TS2834	1	Max WS	Tr200_1d_Kr sing triang	0.35	226.15	227.23	226.33	227.23	0.000002	0.04	0.01	0.01	9.89	14.32	0.01
TS2834	1	Max WS	Tr200_2d_Kr sing	0.35	226.15	227.23	226.33	227.23	0.000002	0.04	0.01	0.01	9.89	14.32	0.01

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

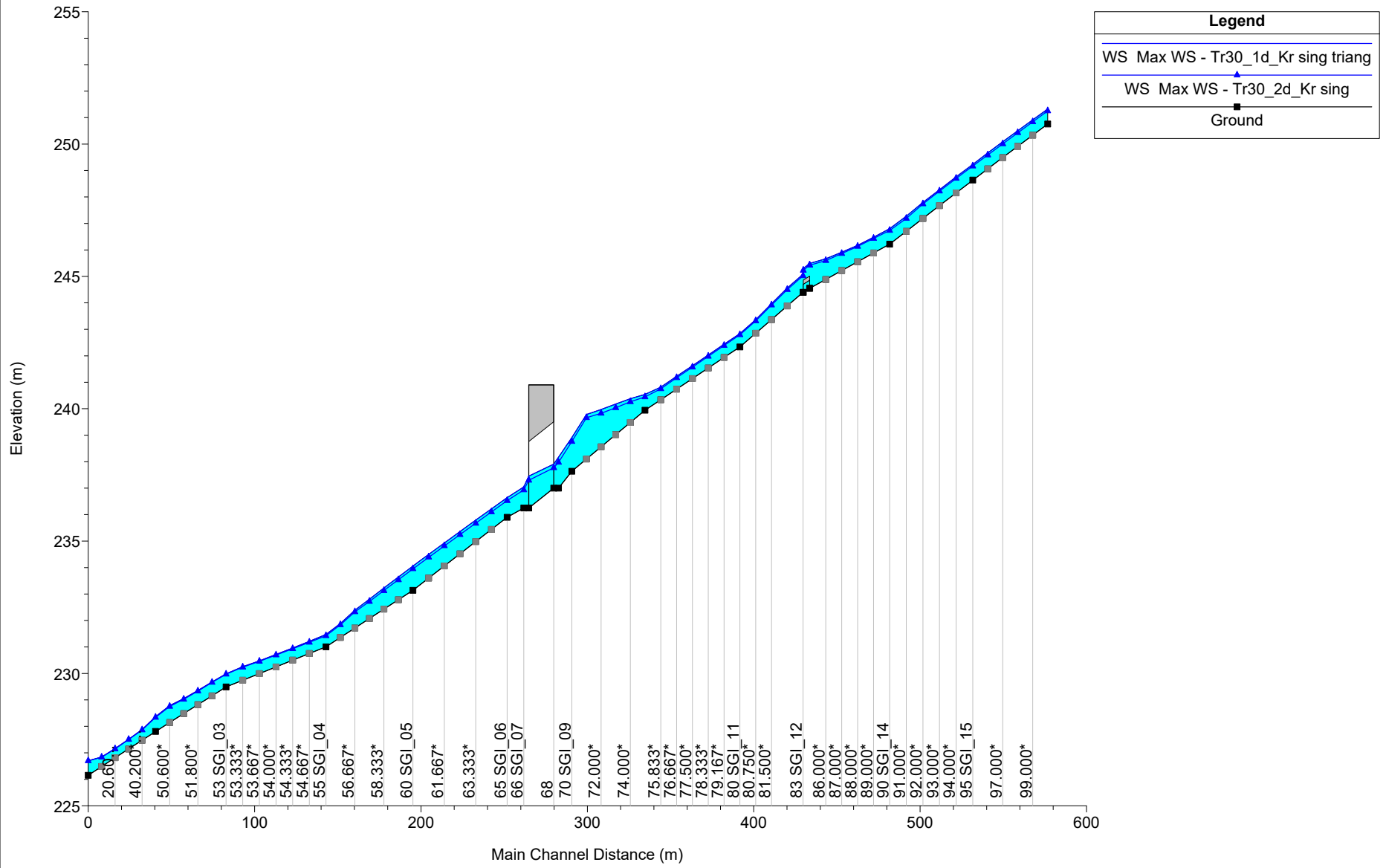
TS 2834

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1 e 2 h

Profilo longitudinale

TS2834 Plan: 1) Tr30_1d_Kr sing triang 09/04/2024 2) Tr30_2d_Kr sing 09/04/2024



ALLEGATI

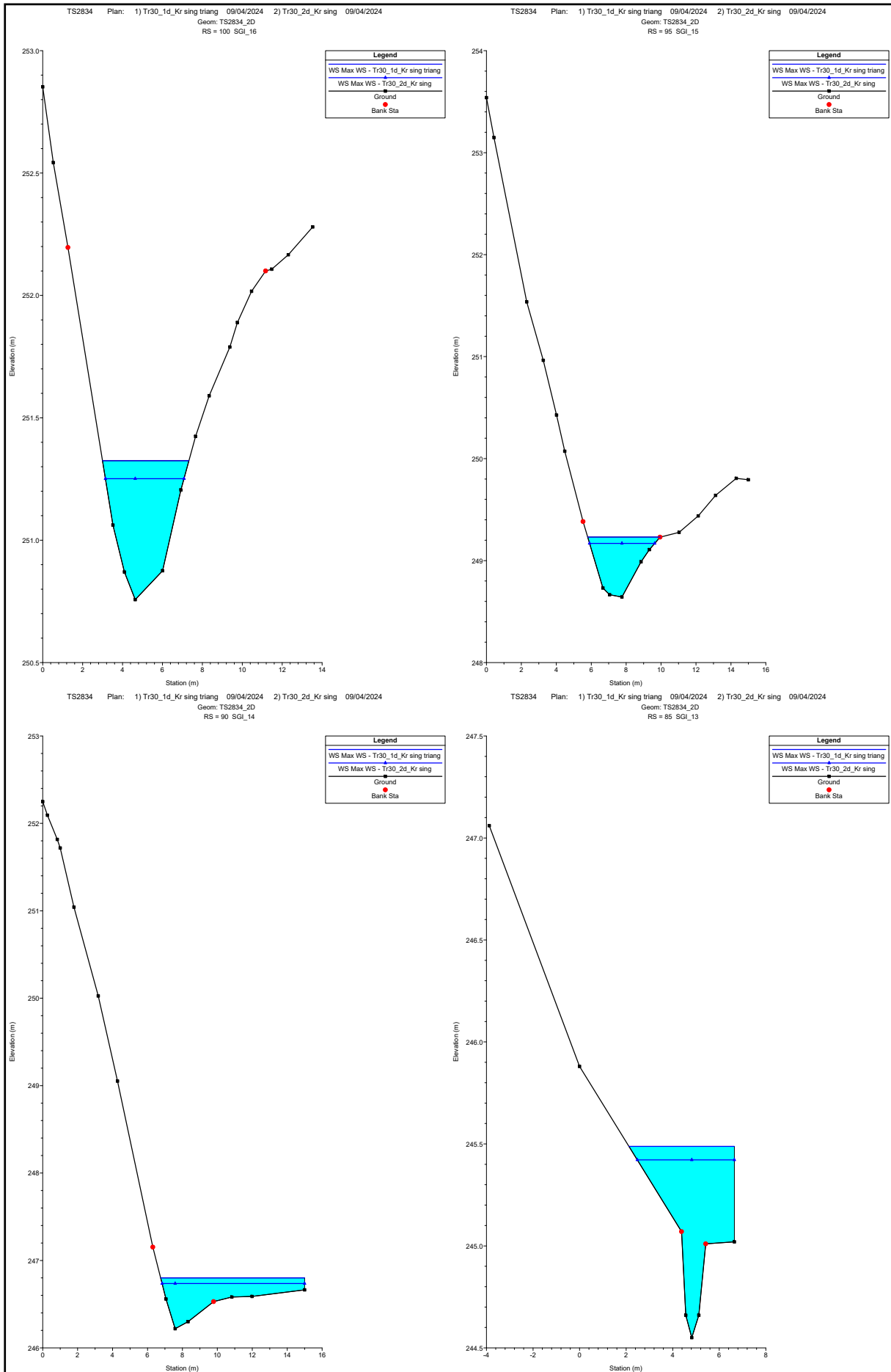
MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

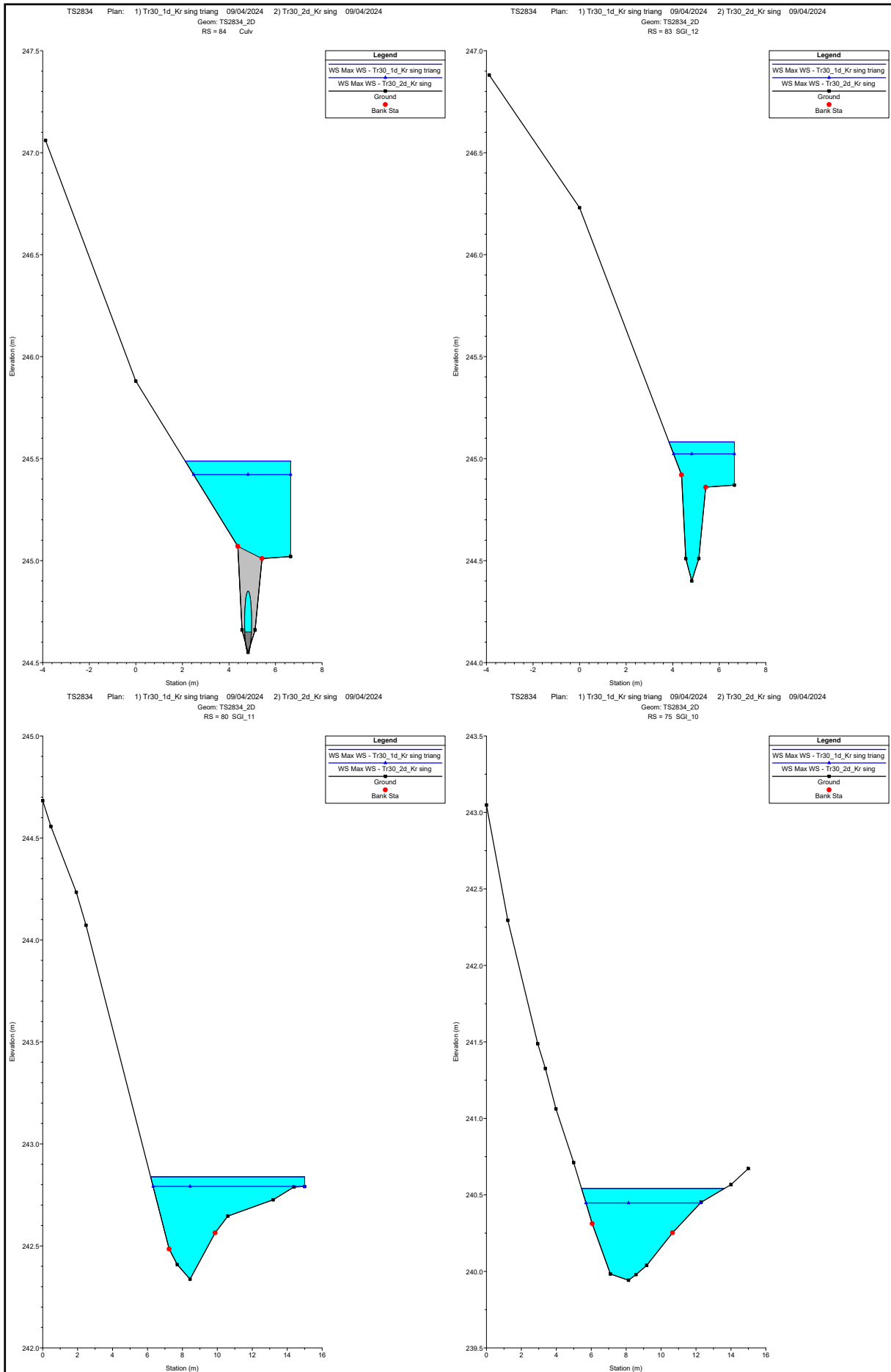
TS 2834

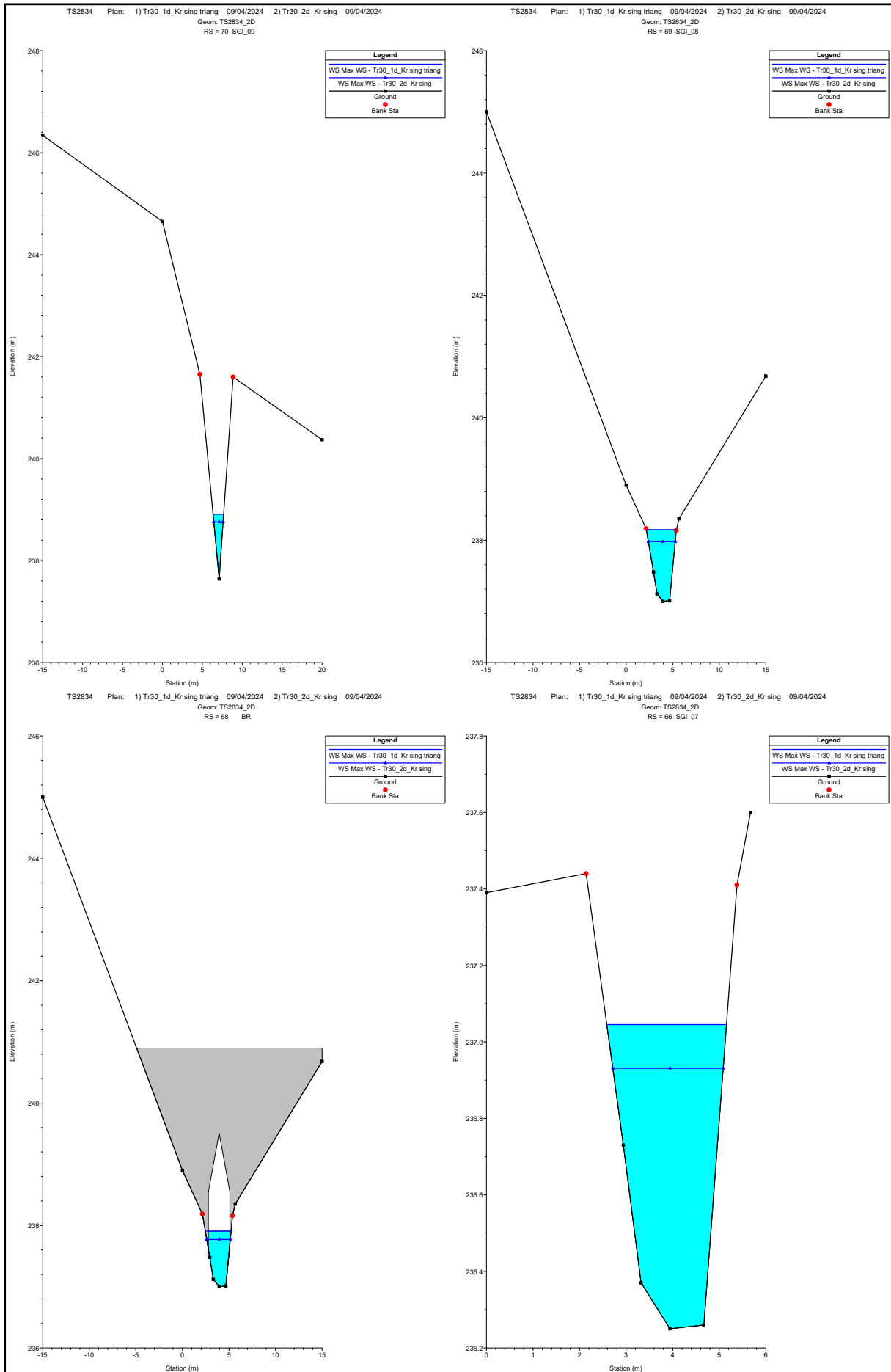
MODELLAZIONE PER TR= 30 anni

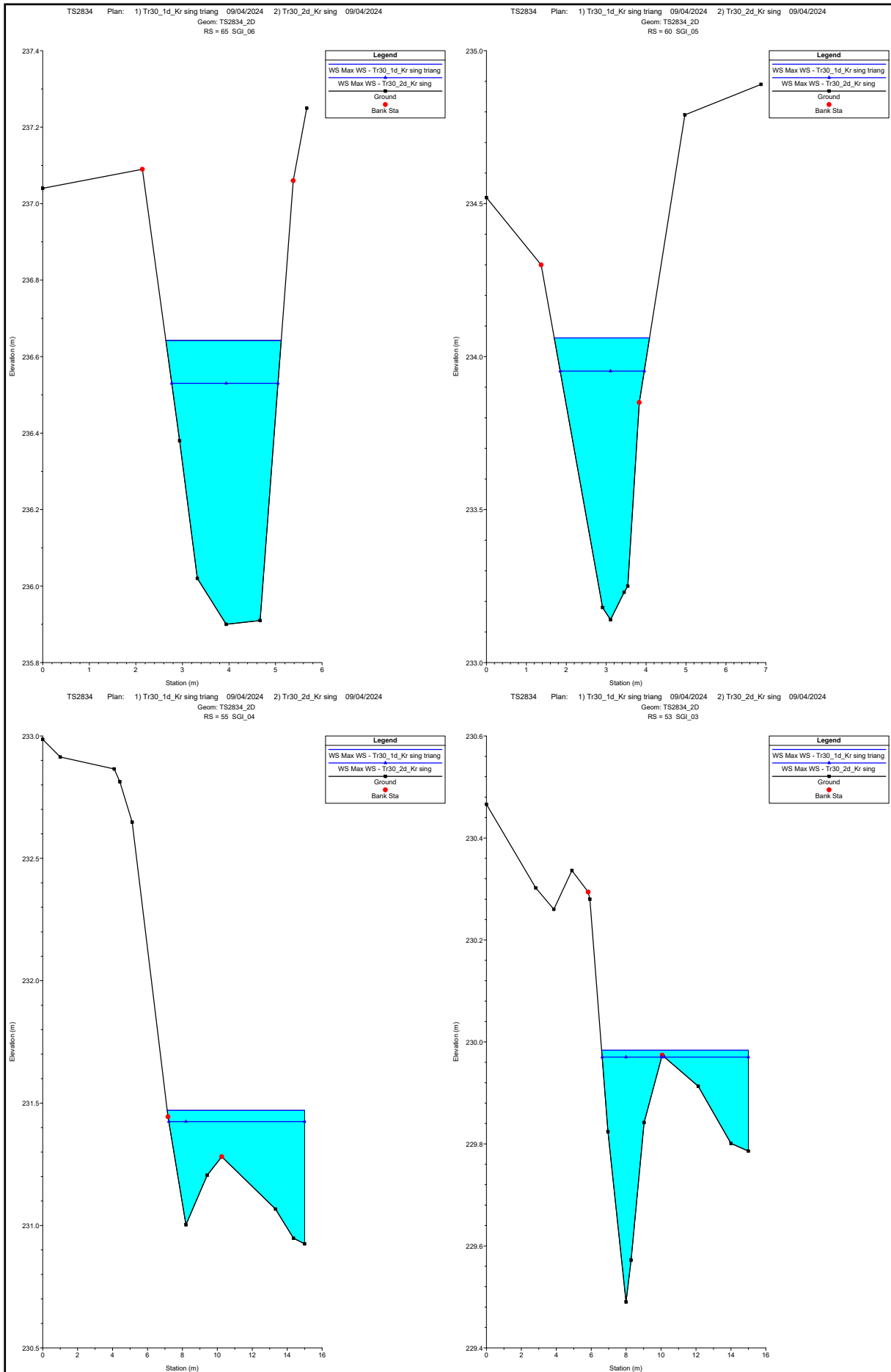
DURATE DI PIOGGIA: 1 e 2 h

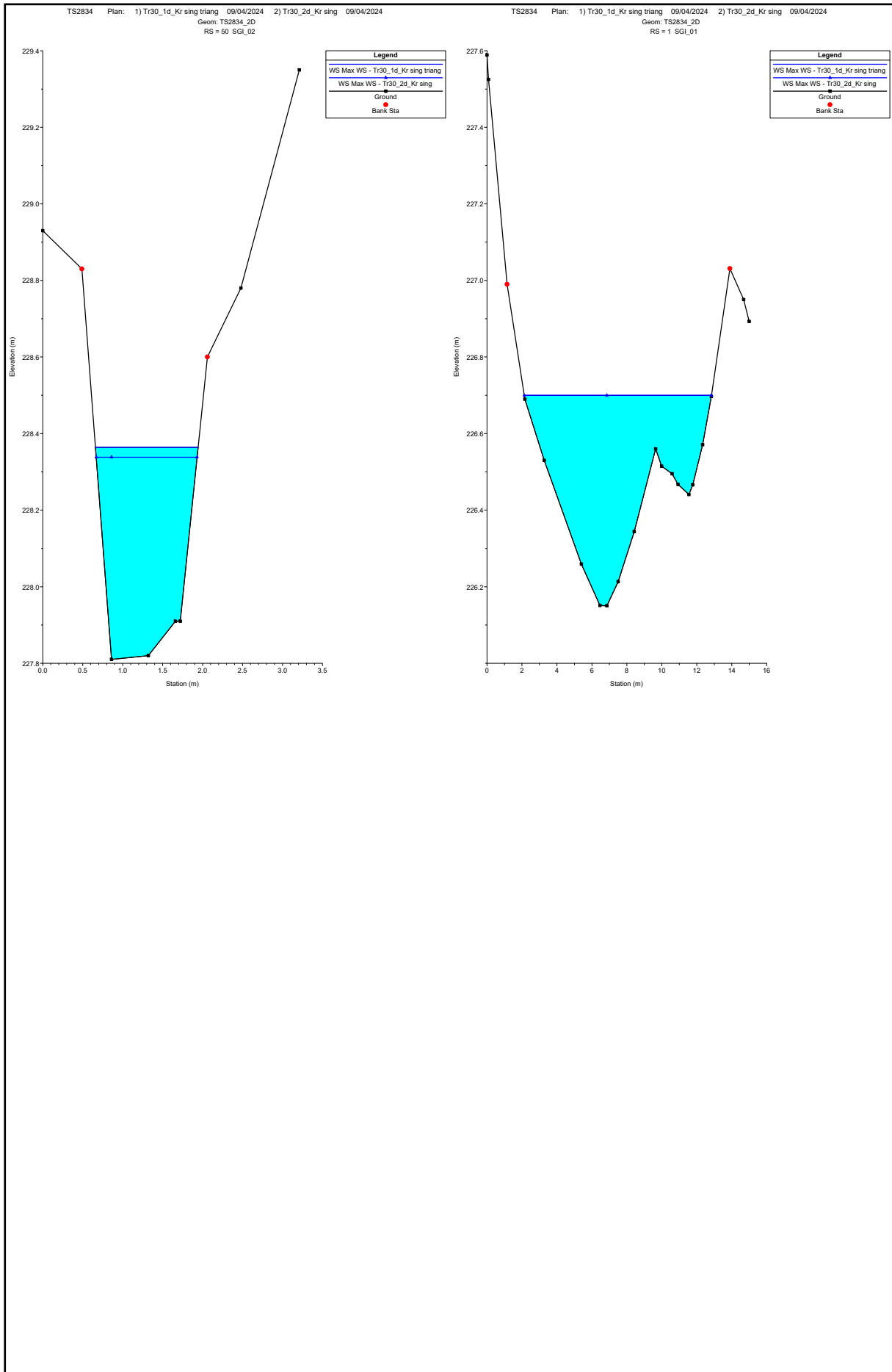
Sezioni Trasversali (da monte verso valle)











ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "TS 2834"

TS 2834

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1 e 2 h

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
TS2834	100	Max WS	Tr30_1d_Kr sing triang	4.60	250.76	251.32	251.47	251.78	0.046497	3.00			1.53	4.33	1.61
TS2834	100	Max WS	Tr30_2d_Kr sing	3.39	250.76	251.25	251.37	251.64	0.046252	2.76			1.23	3.94	1.57
TS2834	95	Max WS	Tr30_1d_Kr sing triang	4.60	248.64	249.23	249.40	249.77	0.058919	3.26			1.41	4.16	1.79
TS2834	95	Max WS	Tr30_2d_Kr sing	3.39	248.64	249.17	249.31	249.60	0.052595	2.91			1.16	3.73	1.67
TS2834	91.99		Lat Struct												
TS2834	90	Max WS	Tr30_1d_Kr sing triang	4.55	246.22	246.80	246.89	247.13	0.036367	2.84		1.06	2.25	8.24	1.43
TS2834	90	Max WS	Tr30_2d_Kr sing	3.38	246.22	246.74	246.83	247.05	0.039899	2.71		0.86	1.72	8.16	1.47
TS2834	85	Max WS	Tr30_1d_Kr sing triang	1.97	244.55	245.49		245.59	0.007658	1.64	0.51	0.71	1.86	4.53	0.60
TS2834	85	Max WS	Tr30_2d_Kr sing	1.53	244.55	245.42		245.50	0.006894	1.47	0.43	0.63	1.57	4.17	0.56
TS2834	84		Culvert												
TS2834	83	Max WS	Tr30_1d_Kr sing triang	1.97	244.40	245.08	245.21	245.49	0.045419	3.05	0.65	1.15	0.85	2.81	1.36
TS2834	83	Max WS	Tr30_2d_Kr sing	1.53	244.40	245.02	245.13	245.38	0.045466	2.82	0.48	0.96	0.69	2.61	1.33
TS2834	80	Max WS	Tr30_1d_Kr sing triang	4.27	242.34	242.84	242.97	243.27	0.041661	3.20	1.04	0.89	1.96	8.82	1.59
TS2834	80	Max WS	Tr30_2d_Kr sing	3.31	242.34	242.79	242.91	243.19	0.043050	3.00	0.96	0.68	1.55	8.68	1.59
TS2834	75	Max WS	Tr30_1d_Kr sing triang	4.60	239.94	240.54	240.54	240.74	0.013829	2.02	0.44	0.49	2.62	8.19	0.94
TS2834	75	Max WS	Tr30_2d_Kr sing	3.41	239.94	240.45	240.45	240.63	0.016719	1.91	0.34	0.45	1.92	6.56	0.99
TS2834	70	Max WS	Tr30_1d_Kr sing triang	4.60	237.64	238.91	239.38	240.42	0.185364	5.44			0.85	1.33	2.18
TS2834	70	Max WS	Tr30_2d_Kr sing	3.40	237.64	238.76	239.18	240.13	0.200047	5.19			0.66	1.17	2.22
TS2834	69	Max WS	Tr30_1d_Kr sing triang	4.60	237.00	238.17	237.92	238.34	0.007915	1.80		0.04	2.55	3.23	0.65
TS2834	69	Max WS	Tr30_2d_Kr sing	3.40	237.00	237.98	237.78	238.13	0.008809	1.73			1.96	2.89	0.67
TS2834	68		Bridge												
TS2834	66	Max WS	Tr30_1d_Kr sing triang	4.60	236.25	237.05	237.17	237.55	0.035136	3.13			1.47	2.57	1.32
TS2834	66	Max WS	Tr30_2d_Kr sing	3.40	236.25	236.93	237.03	237.35	0.034436	2.87			1.19	2.37	1.30
TS2834	65	Max WS	Tr30_1d_Kr sing triang	4.60	235.90	236.64	236.82	237.25	0.045614	3.45			1.33	2.48	1.50
TS2834	65	Max WS	Tr30_2d_Kr sing	3.40	235.90	236.53	236.68	237.05	0.045935	3.19			1.07	2.28	1.49
TS2834	60	Max WS	Tr30_1d_Kr sing triang	4.59	233.14	234.06	234.28	234.76	0.050476	3.71		0.70	1.26	2.39	1.56
TS2834	60	Max WS	Tr30_2d_Kr sing	3.40	233.14	233.95	234.13	234.53	0.049467	3.36		0.43	1.02	2.11	1.50
TS2834	59.99		Lat Struct												
TS2834	55	Max WS	Tr30_1d_Kr sing triang	4.01	231.00	231.47	231.44	231.61	0.026767	2.00	0.14	1.29	2.62	7.87	1.19
TS2834	55	Max WS	Tr30_2d_Kr sing	3.10	231.00	231.42	231.39	231.53	0.026028	1.77		1.17	2.26	7.78	1.14
TS2834	53	Max WS	Tr30_1d_Kr sing triang	1.83	229.49	229.98	230.03	230.14	0.034221	1.90		0.66	1.29	8.40	1.28
TS2834	53	Max WS	Tr30_2d_Kr sing	1.66	229.49	229.97	230.01	230.12	0.035456	1.88		0.62	1.18	8.21	1.29
TS2834	50	Max WS	Tr30_1d_Kr sing triang	1.83	227.81	228.36	228.53	228.91	0.071365	3.29			0.56	1.28	1.60
TS2834	50	Max WS	Tr30_2d_Kr sing	1.66	227.81	228.34	228.49	228.85	0.069535	3.18			0.52	1.26	1.58
TS2834	1	Max WS	Tr30_1d_Kr sing triang	0.35	226.15	226.70	226.33	226.70	0.000084	0.11			3.11	10.71	0.07
TS2834	1	Max WS	Tr30_2d_Kr sing	0.35	226.15	226.70	226.33	226.70	0.000084	0.11			3.11	10.71	0.07

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

T.MASS

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

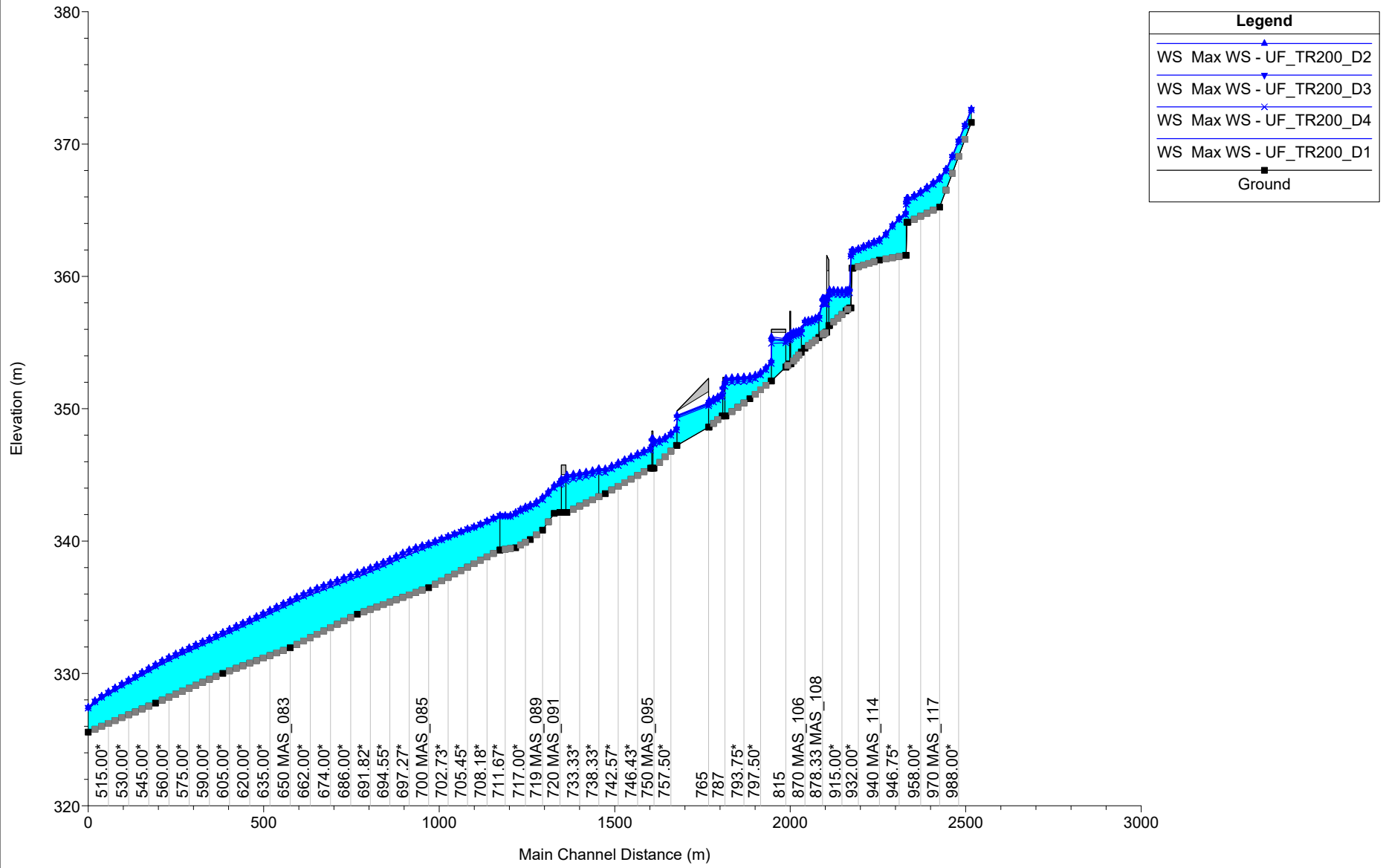
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

T.MASS

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

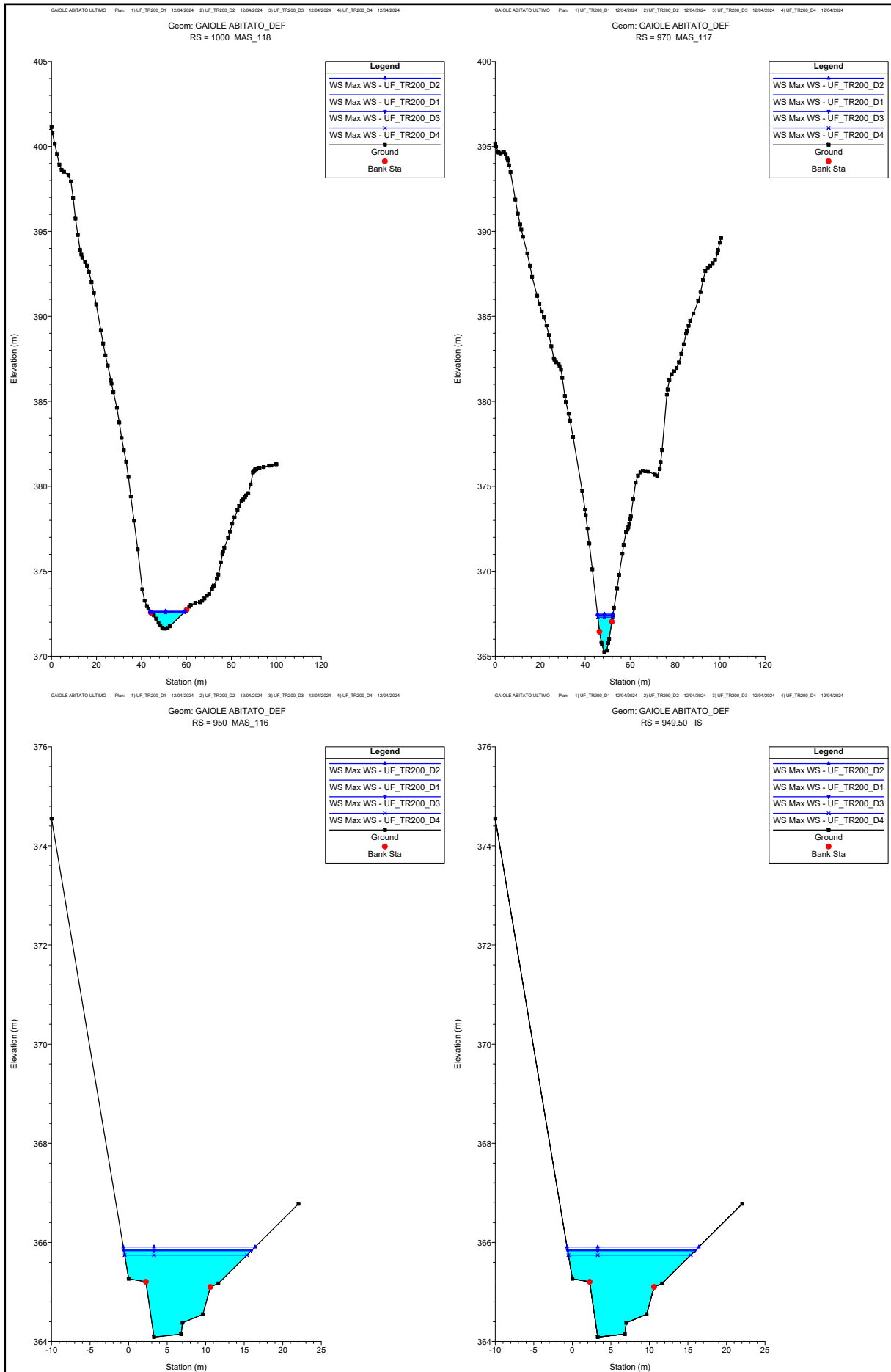
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

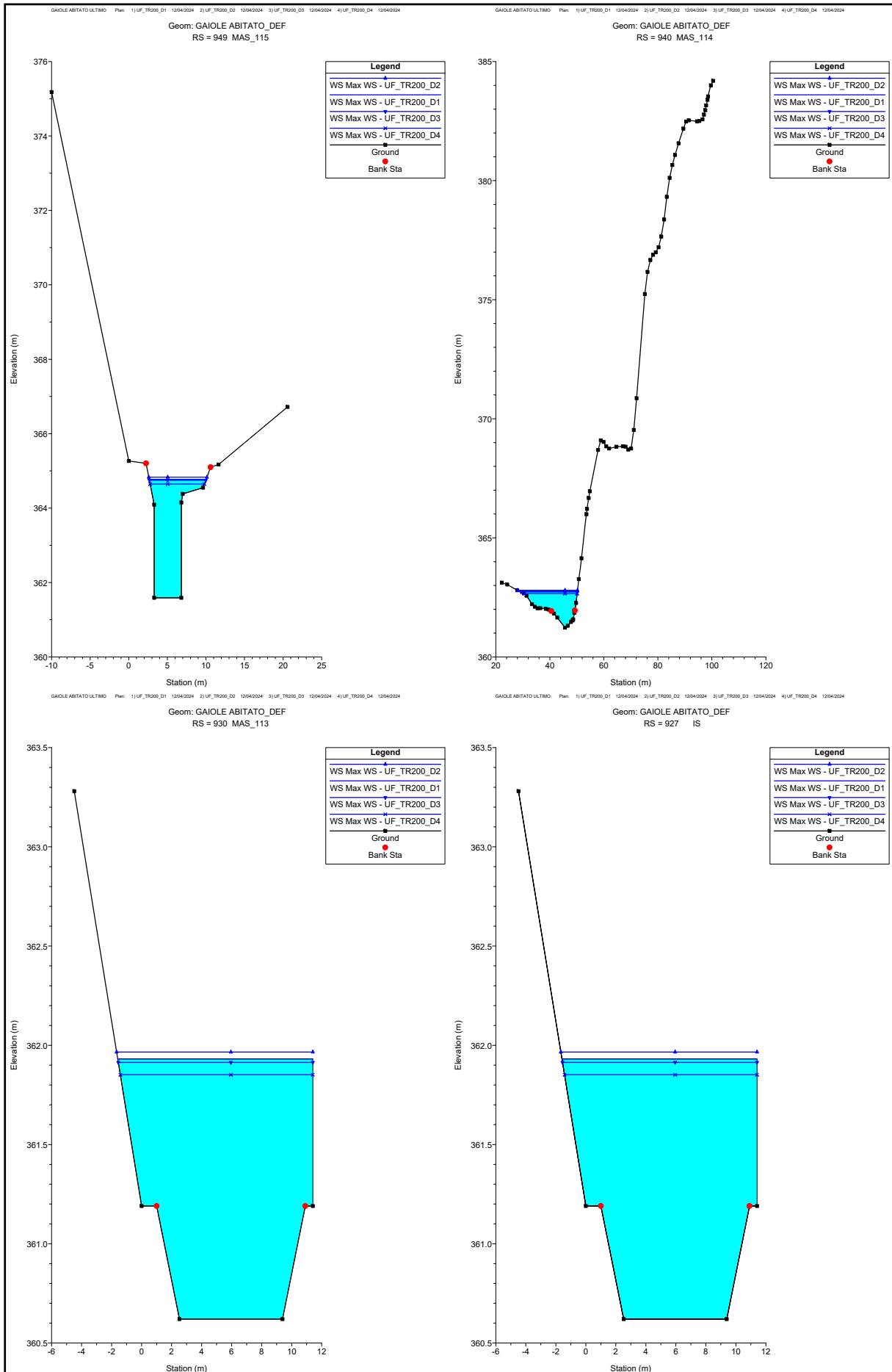
T.MASS

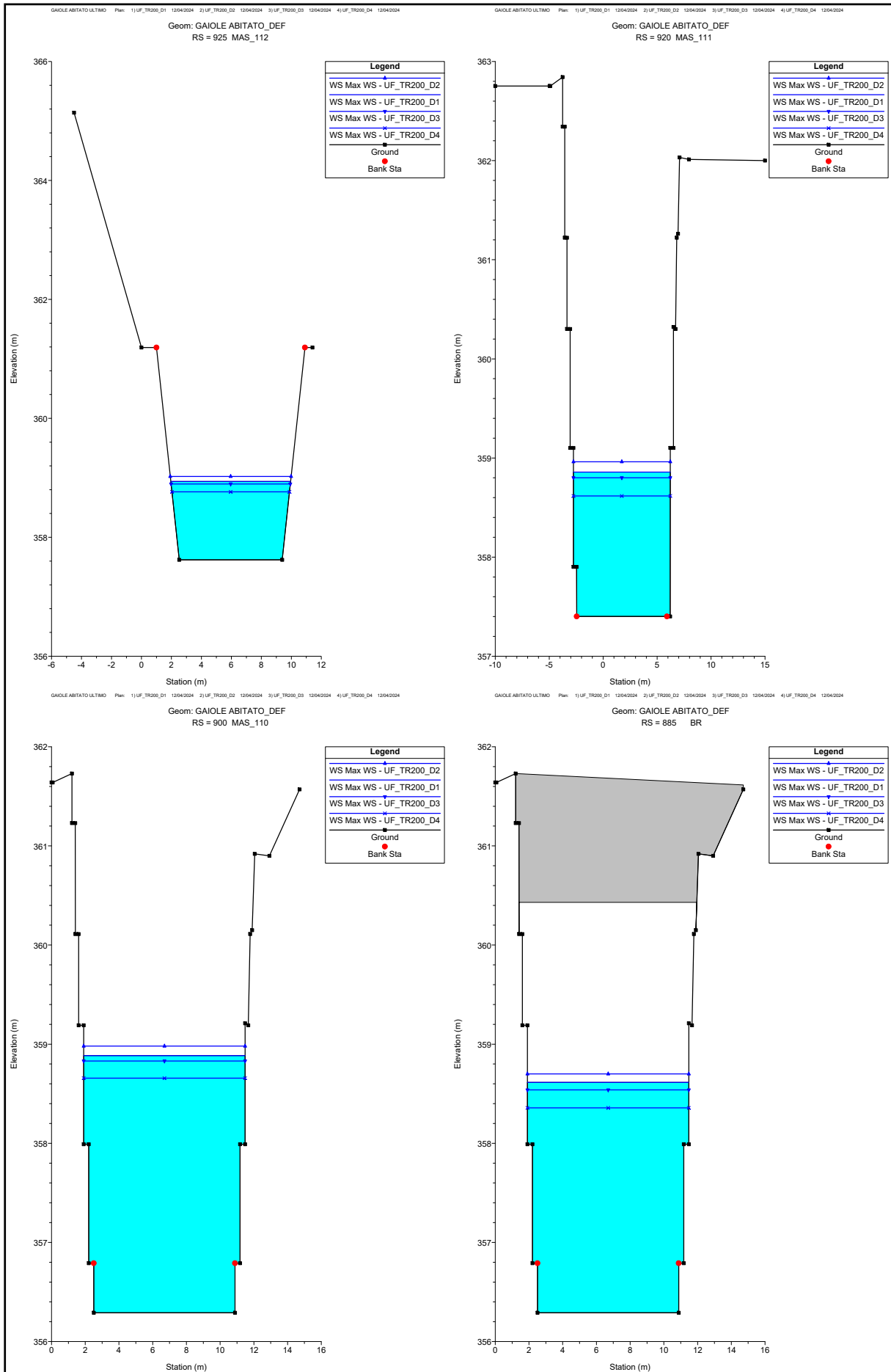
MODELLAZIONE PER TR= 200 anni

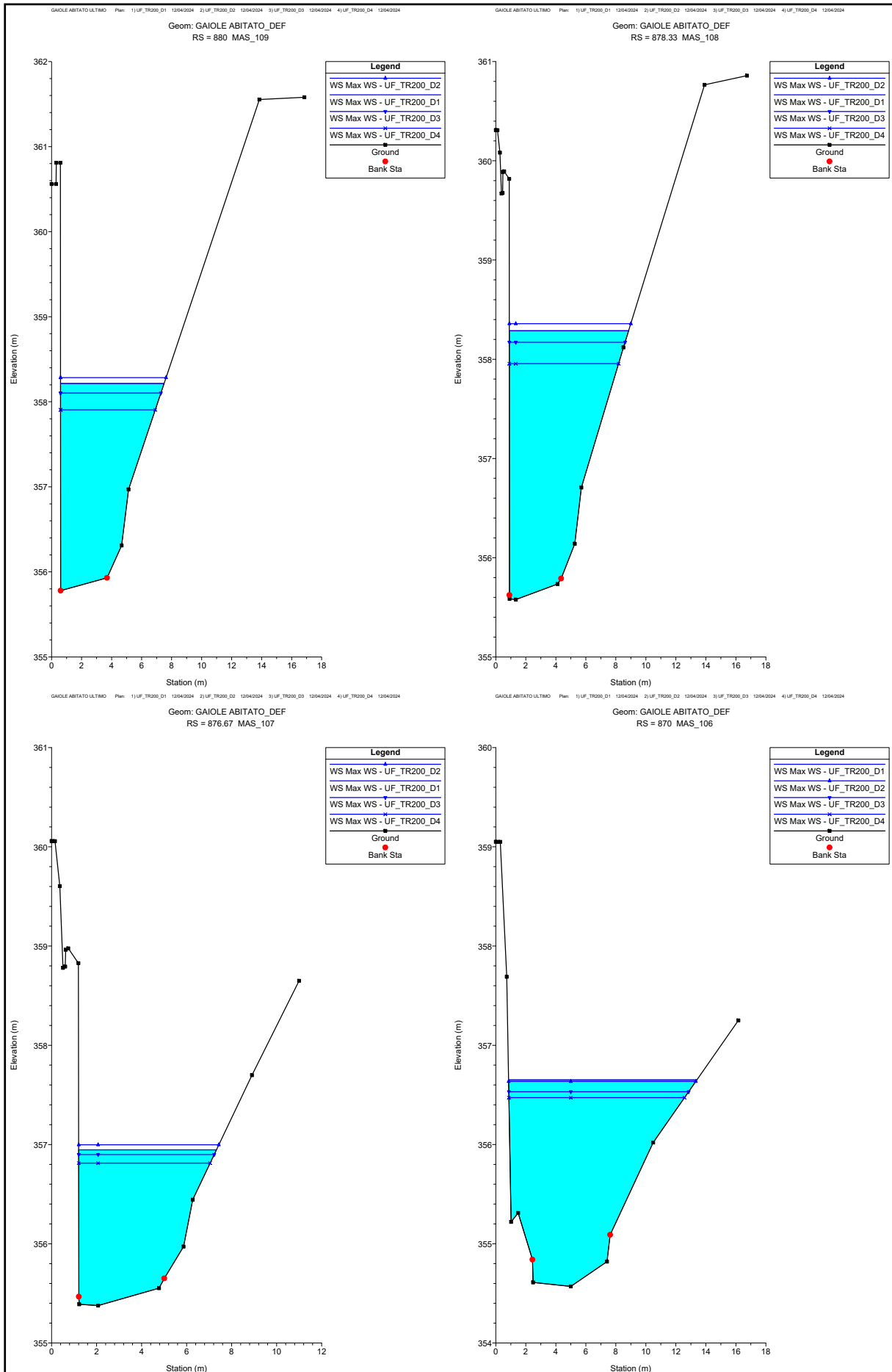
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

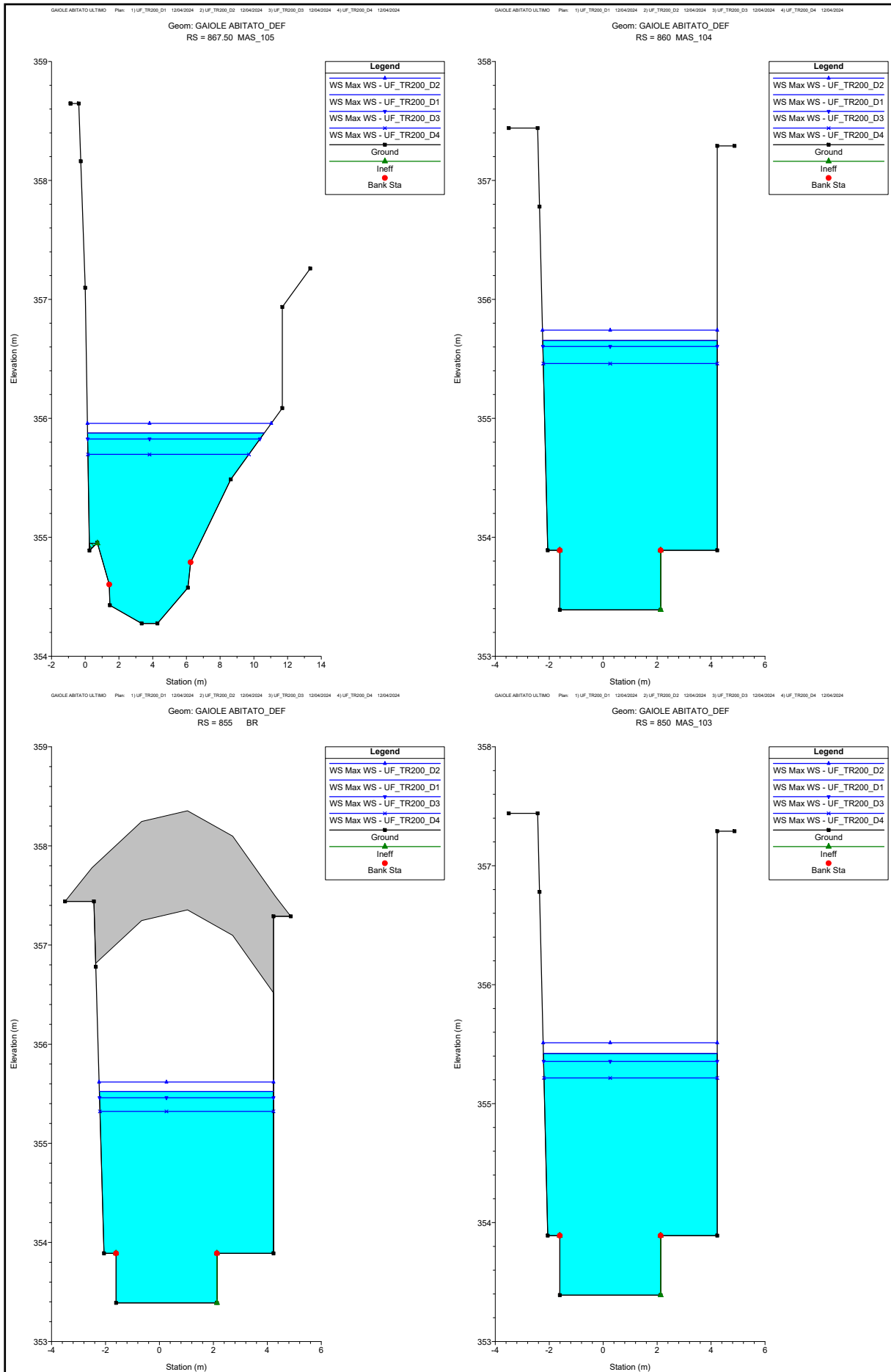
Sezioni Trasversali (da monte verso valle)

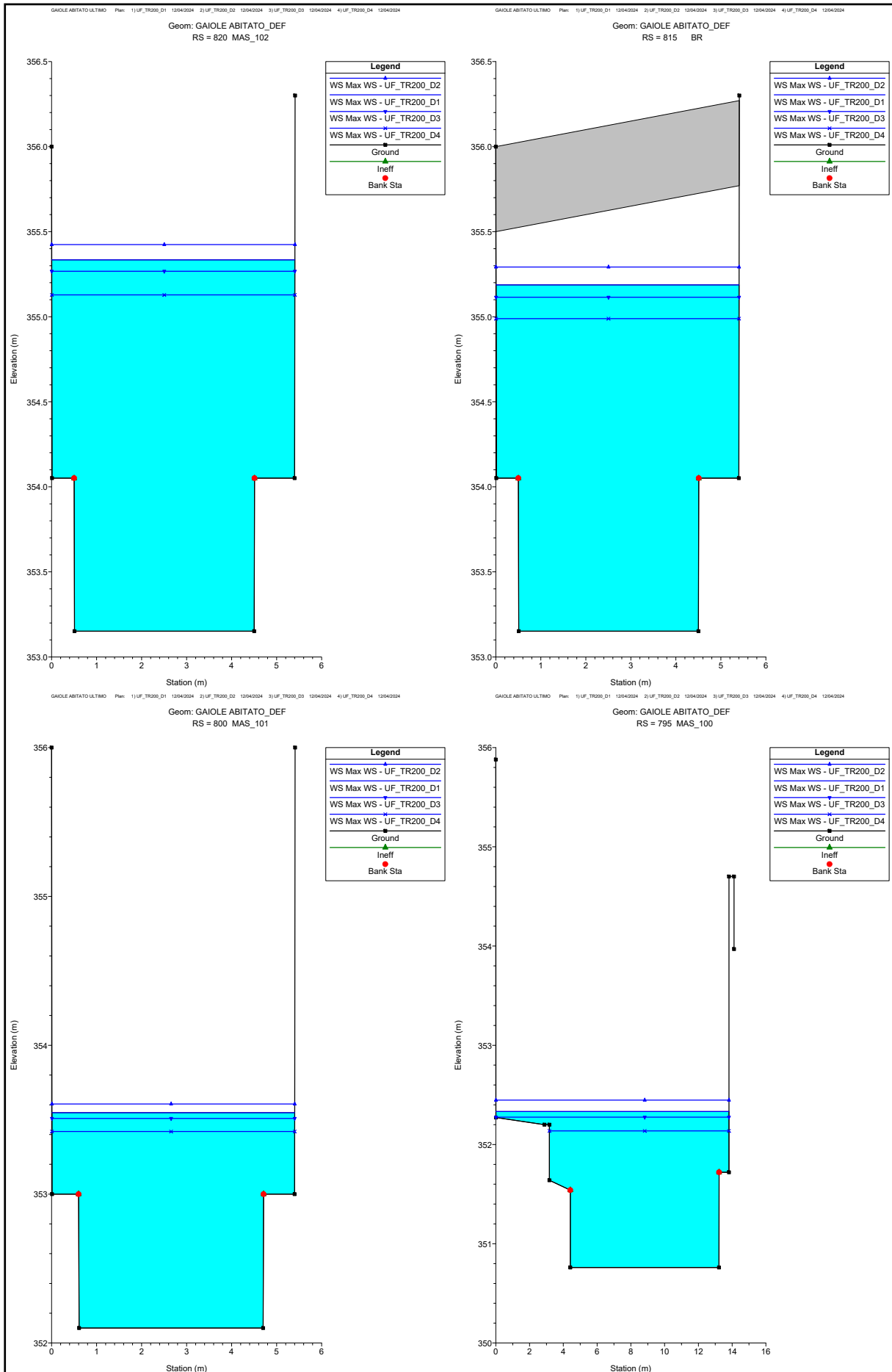


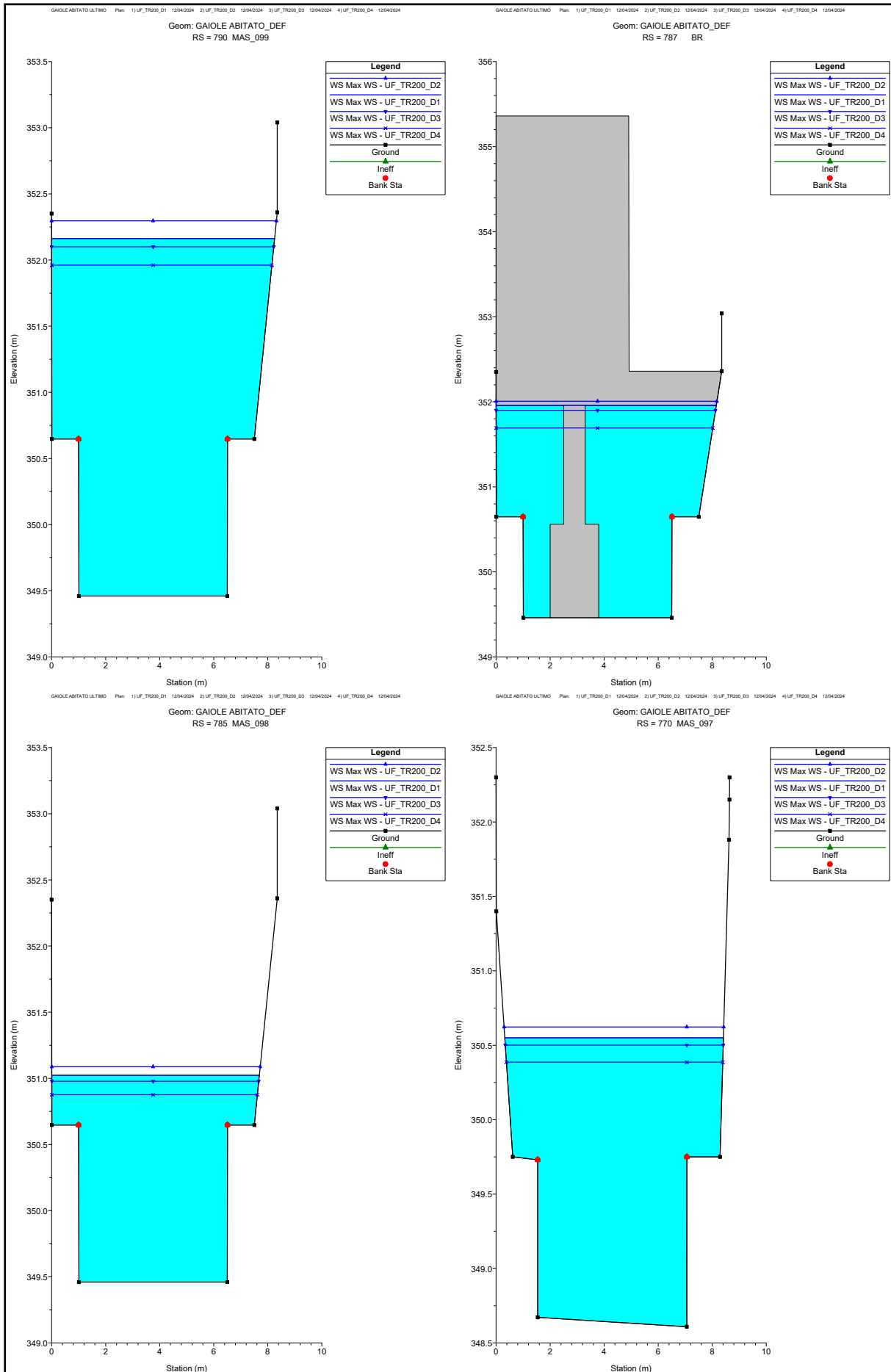


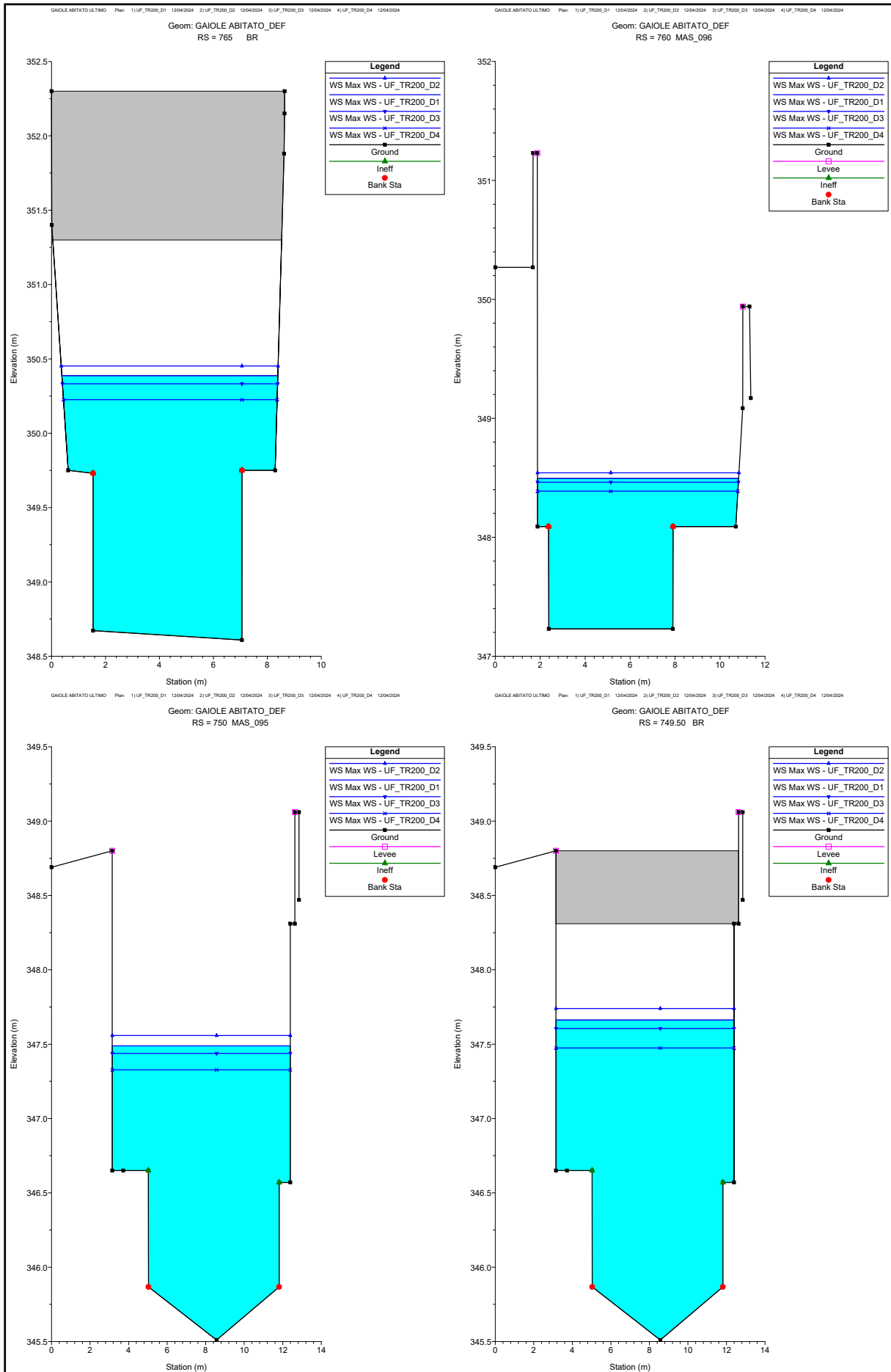


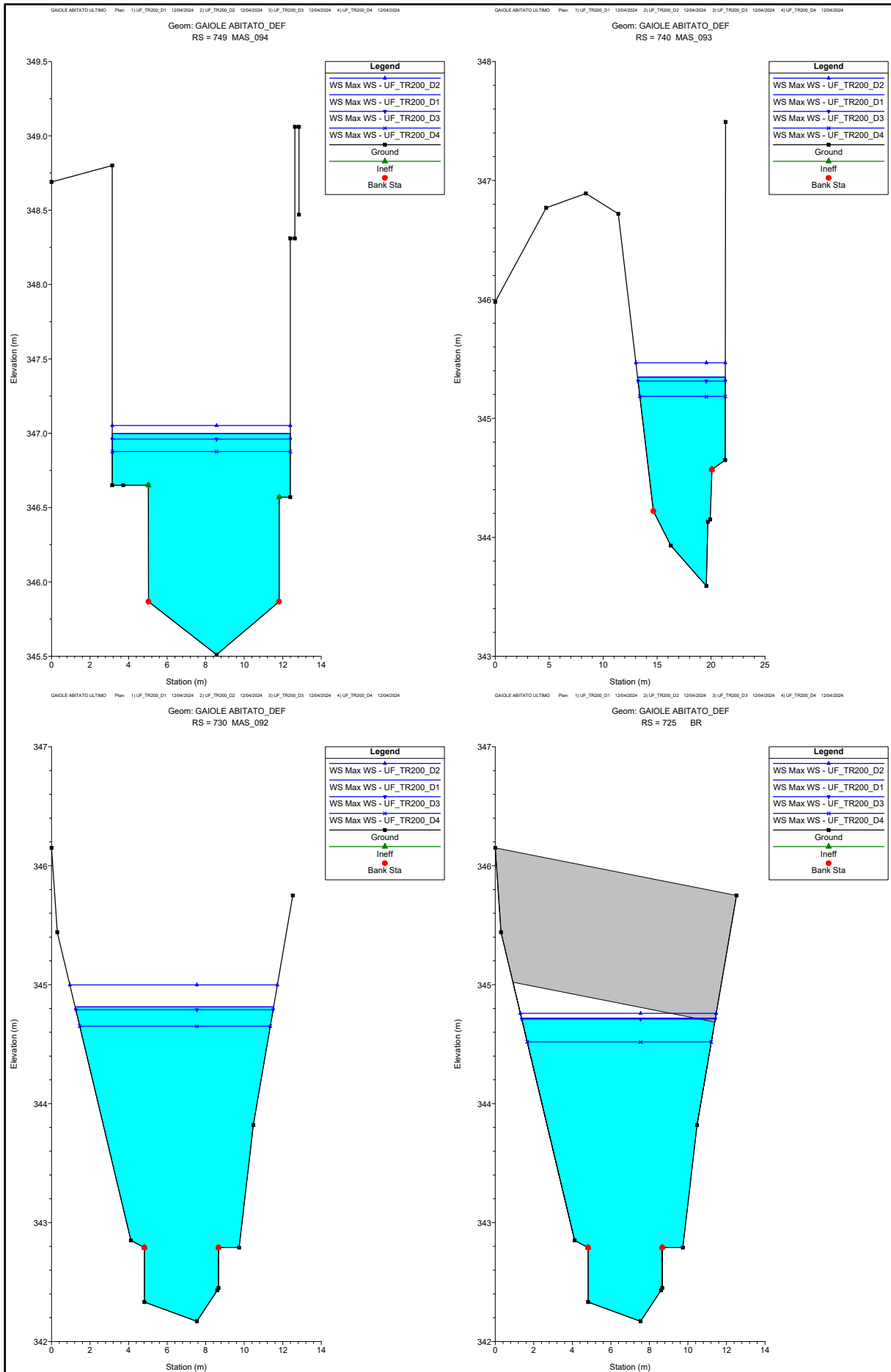


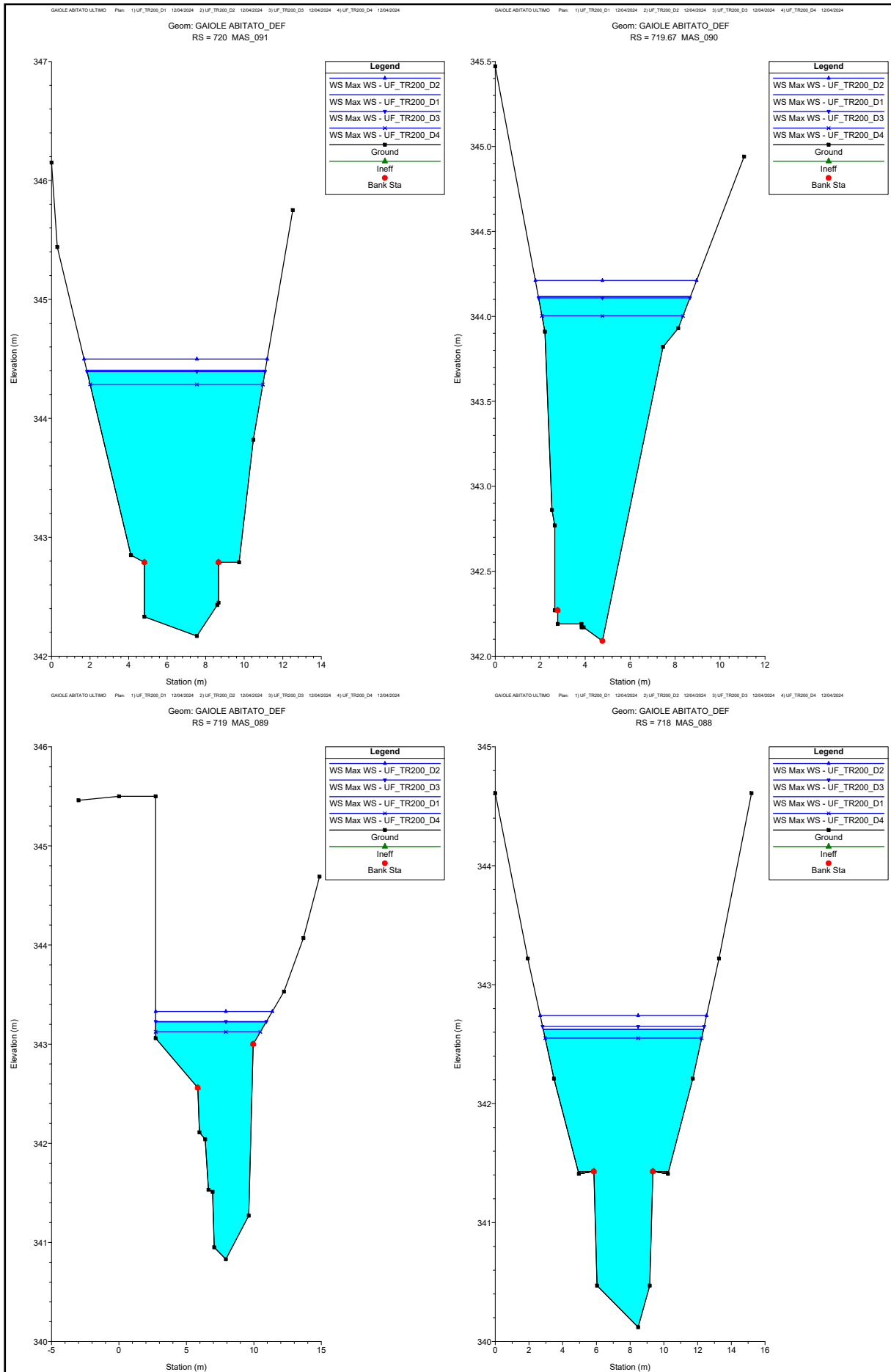


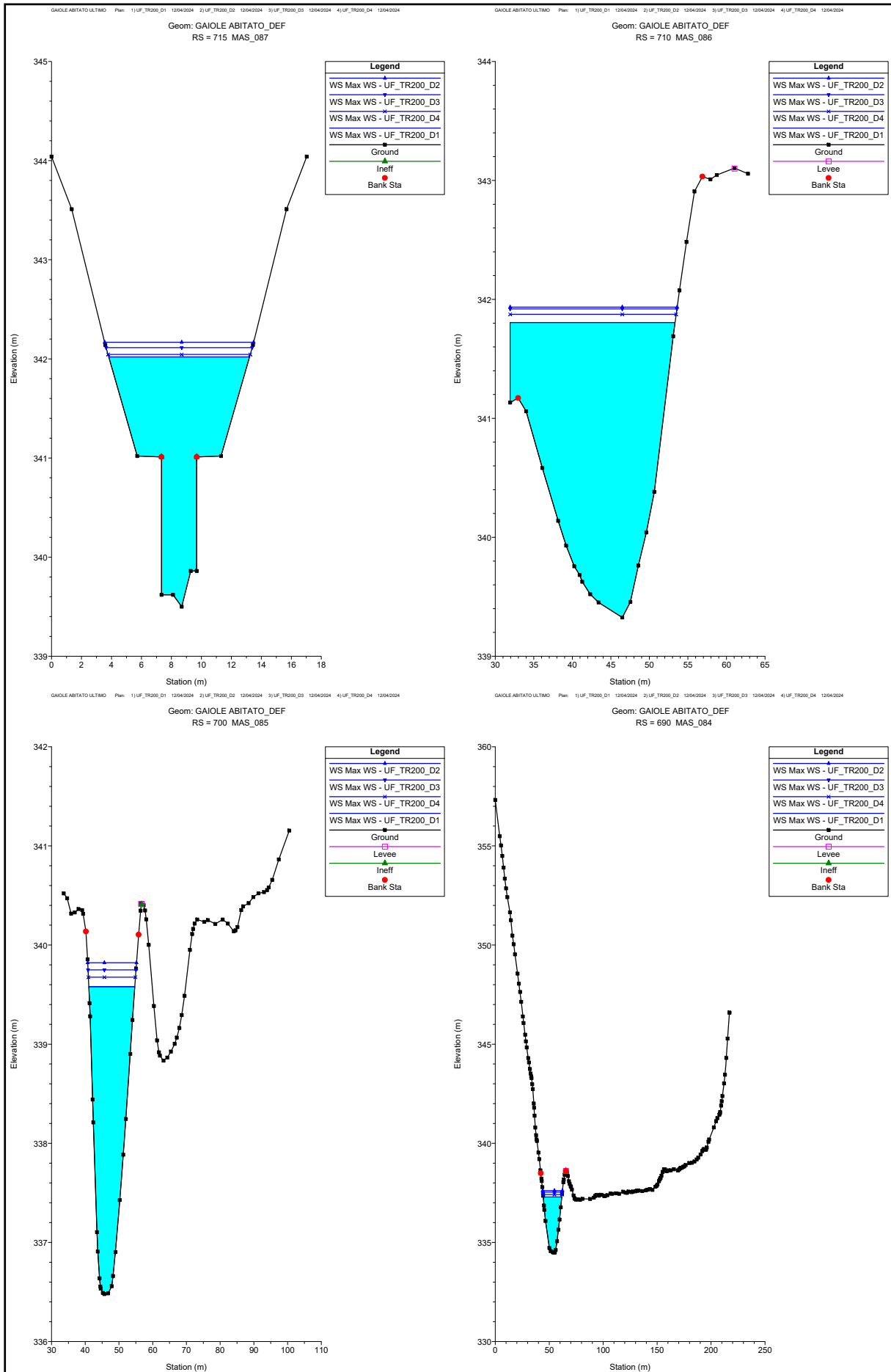


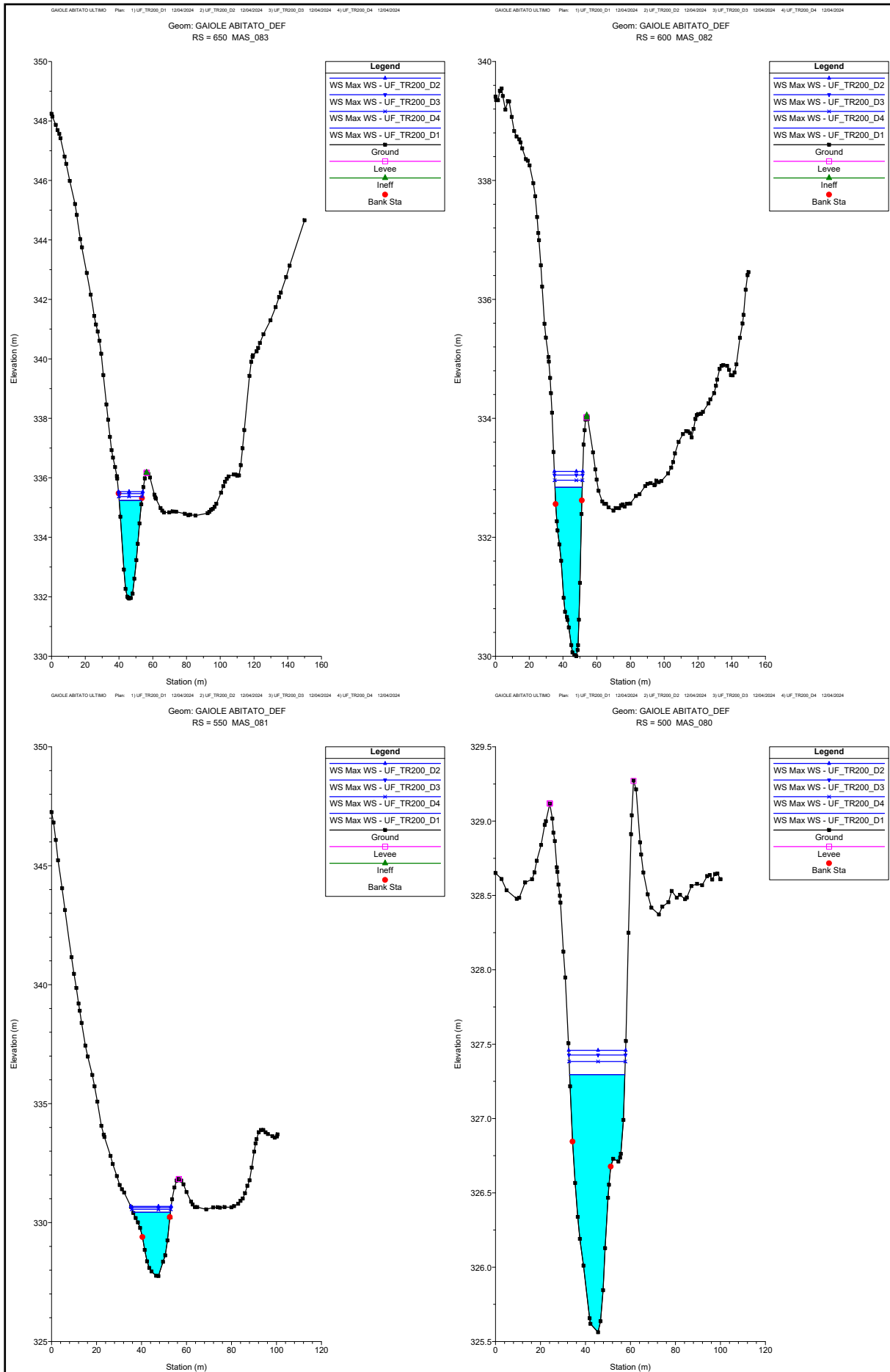












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

T.MASS

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

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
TORRENTE MASSELL	1000	Max WS	UF_TR200_D1	31.85	371.63	372.63	372.83	373.33	0.073715	3.70	0.27		8.62	15.48	1.57
TORRENTE MASSELL	1000	Max WS	UF_TR200_D2	33.89	371.63	372.65	372.87	373.38	0.074132	3.78	0.34		8.98	15.77	1.58
TORRENTE MASSELL	1000	Max WS	UF_TR200_D3	30.82	371.63	372.62	372.81	373.30	0.073459	3.66	0.24		8.43	15.33	1.56
TORRENTE MASSELL	1000	Max WS	UF_TR200_D4	27.43	371.63	372.58	372.76	373.20	0.071752	3.49	0.10		7.85	14.84	1.53
TORRENTE MASSELL	970	Max WS	UF_TR200_D1	31.83	365.23	367.43	367.34	368.07	0.020841	3.57	0.68	0.40	9.32	6.79	0.90
TORRENTE MASSELL	970	Max WS	UF_TR200_D2	33.88	365.23	367.48	367.40	368.16	0.020949	3.67	0.71	0.44	9.72	6.91	0.91
TORRENTE MASSELL	970	Max WS	UF_TR200_D3	30.82	365.23	367.40	367.30	368.03	0.020757	3.53	0.67	0.38	9.13	6.73	0.90
TORRENTE MASSELL	970	Max WS	UF_TR200_D4	27.43	365.23	367.30		367.87	0.020455	3.35	0.62	0.31	8.48	6.54	0.88
TORRENTE MASSELL	950	Max WS	UF_TR200_D1	31.82	364.09	365.86	365.56	366.13	0.009571	2.40	0.62	0.54	16.21	16.72	0.63
TORRENTE MASSELL	950	Max WS	UF_TR200_D2	33.87	364.09	365.91	365.60	366.19	0.009599	2.45	0.65	0.56	17.04	17.09	0.63
TORRENTE MASSELL	950	Max WS	UF_TR200_D3	30.82	364.09	365.83	365.53	366.10	0.009559	2.37	0.61	0.53	15.80	16.54	0.63
TORRENTE MASSELL	950	Max WS	UF_TR200_D4	27.43	364.09	365.74	365.44	365.99	0.009554	2.27	0.56	0.49	14.36	15.87	0.62
TORRENTE MASSELL	949.50		Inf Struct												
TORRENTE MASSELL	949	Max WS	UF_TR200_D1	31.82	361.59	364.77		365.11	0.017494	2.57			12.37	7.38	0.63
TORRENTE MASSELL	949	Max WS	UF_TR200_D2	33.87	361.59	364.83		365.19	0.018084	2.65			12.79	7.53	0.65
TORRENTE MASSELL	949	Max WS	UF_TR200_D3	30.82	361.59	364.75		365.07	0.017168	2.53			12.17	7.30	0.63
TORRENTE MASSELL	949	Max WS	UF_TR200_D4	27.43	361.59	364.65		364.94	0.016046	2.39			11.46	7.04	0.60
TORRENTE MASSELL	940	Max WS	UF_TR200_D1	31.81	361.23	362.76		363.05	0.012788	2.55	0.72	0.54	17.11	21.41	0.74
TORRENTE MASSELL	940	Max WS	UF_TR200_D2	33.87	361.23	362.80		363.10	0.012890	2.62	0.73	0.56	17.99	22.25	0.74
TORRENTE MASSELL	940	Max WS	UF_TR200_D3	30.82	361.23	362.73		363.02	0.012991	2.53	0.73	0.53	16.55	20.85	0.74
TORRENTE MASSELL	940	Max WS	UF_TR200_D4	27.43	361.23	362.66		362.92	0.012905	2.42	0.71	0.50	15.08	19.55	0.73
TORRENTE MASSELL	931		Lat Struct												
TORRENTE MASSELL	930	Max WS	UF_TR200_D1	25.85	360.62	361.93	361.59	362.13	0.007940	2.01	0.91	0.66	13.83	13.00	0.58
TORRENTE MASSELL	930	Max WS	UF_TR200_D2	27.03	360.62	361.97	361.61	362.17	0.007874	2.04	0.93	0.67	14.28	13.08	0.58
TORRENTE MASSELL	930	Max WS	UF_TR200_D3	25.27	360.62	361.91	361.58	362.11	0.007969	2.00	0.90	0.66	13.61	12.97	0.58
TORRENTE MASSELL	930	Max WS	UF_TR200_D4	23.20	360.62	361.85	361.53	362.04	0.008089	1.94	0.87	0.65	12.80	12.83	0.58
TORRENTE MASSELL	927		Inf Struct												
TORRENTE MASSELL	925	Max WS	UF_TR200_D1	25.82	357.62	358.94		359.29	0.017226	2.64			9.80	7.99	0.76
TORRENTE MASSELL	925	Max WS	UF_TR200_D2	27.02	357.62	359.02		359.36	0.015466	2.58			10.47	8.06	0.72
TORRENTE MASSELL	925	Max WS	UF_TR200_D3	25.25	357.62	358.90		359.26	0.018301	2.67			9.46	7.96	0.78
TORRENTE MASSELL	925	Max WS	UF_TR200_D4	23.20	357.62	358.76		359.15	0.021895	2.76			8.41	7.84	0.85
TORRENTE MASSELL	920	Max WS	UF_TR200_D1	26.77	357.40	358.86		359.09	0.002555	2.16	0.38	0.67	12.91	8.97	0.57
TORRENTE MASSELL	920	Max WS	UF_TR200_D2	28.21	357.40	358.96		359.19	0.002258	2.13	0.37	0.63	13.84	8.97	0.54
TORRENTE MASSELL	920	Max WS	UF_TR200_D3	26.09	357.40	358.80		359.04	0.002775	2.20	0.39	0.69	12.39	8.97	0.59
TORRENTE MASSELL	920	Max WS	UF_TR200_D4	23.79	357.40	358.62		358.88	0.003679	2.30	0.41	0.78	10.75	8.97	0.67
TORRENTE MASSELL	900	Max WS	UF_TR200_D1	29.56	356.29	358.88	357.36	358.97	0.000526	1.34	0.28	0.28	23.51	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR200_D2	31.36	356.29	358.98	357.40	359.07	0.000524	1.37	0.28	0.28	24.43	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR200_D3	28.74	356.29	358.83	357.34	358.92	0.000534	1.33	0.27	0.27	22.99	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR200_D4	25.81	356.29	358.66	357.27	358.74	0.000545	1.28	0.27	0.27	21.33	9.57	0.27
TORRENTE MASSELL	885		Bridge												
TORRENTE MASSELL	880	Max WS	UF_TR200_D1	29.53	355.78	358.21		358.67	0.003072	3.27	0.03	1.33	11.55	6.90	0.88
TORRENTE MASSELL	880	Max WS	UF_TR200_D2	31.36	355.78	358.28		358.76	0.003105	3.35	0.03	1.36	12.03	7.03	0.89
TORRENTE MASSELL	880	Max WS	UF_TR200_D3	28.74	355.78	358.10		358.60	0.003486	3.37	0.03	1.37	10.79	6.89	0.72
TORRENTE MASSELL	880	Max WS	UF_TR200_D4	25.81	355.78	357.91		358.41	0.003958	3.38	0.03	1.37	9.50	6.31	0.75
TORRENTE MASSELL	879.99		Lat Struct												
TORRENTE MASSELL	878.33	Max WS	UF_TR200_D1	29.51	355.58	358.29		358.58	0.001726	2.62	0.03	1.06	14.50	7.96	0.52
TORRENTE MASSELL	878.33	Max WS	UF_TR200_D2	31.36	355.58	358.36		358.67	0.001760	2.69	0.03	1.09	15.07	8.10	0.52
TORRENTE MASSELL	878.33	Max WS	UF_TR200_D3	28.73	355.58	358.17		358.48	0.001942	2.69	0.03	1.09	13.59	7.72	0.54
TORRENTE MASSELL	878.33	Max WS	UF_TR200_D4	25.81	355.58	357.96		358.27	0.002195	2.70	0.03	1.09	11.97	7.29	0.57
T.MASS_01	876.67	Max WS	UF_TR200_D1	33.57	355.38	356.95	357.34	358.29	0.015618	5.35	0.08	2.14	7.20	6.12	1.40
T.MASS_01	876.67	Max WS	UF_TR200_D2	36.57	355.38	357.00	357.44	358.47	0.016398	5.61	0.09	2.25	7.52	6.23	1.44
T.MASS_01	876.67	Max WS	UF_TR200_D3	32.98	355.38	356.90	357.32	358.29	0.016894	5.45	0.09	2.18	6.91	6.02	1.45
T.MASS_01	876.67	Max WS	UF_TR200_D4	29.43	355.38	356.81	357.19	358.09	0.016774	5.21	0.08	2.09	6.40	5.84	1.43
T.MASS_01	870	Max WS	UF_TR200_D1	30.87	354.57	356.65		356.90	0.002257	2.41	0.99	0.92	16.68	12.55	0.54
T.MASS_01	870	Max WS	UF_TR200_D2	36.32	354.57	356.64		356.99	0.003217	2.86	1.18	1.09	16.49	12.48	0.65
T.MASS_01	870	Max WS	UF_TR200_D3	32.37	354.57	356.53		356.85	0.003144	2.73	1.13	1.03	15.21	11.99	0.64
T.MASS_01	870	Max WS	UF_TR200_D4	25.36	354.57	356.47		356.69	0.002182	2.22	0.93	0.83	14.51	11.70	0.53
T.MASS_02	867.50	Max WS	UF_TR200_D1	38.72	354.28	355.88	356.13	356.79	0.011697	4.55	1.84	1.65	10.64	10.48	1.19
T.MASS_02	867.50	Max WS	UF_TR200_D2	41.45	354.28	355.96	356.19	356.87	0.010946	4.56	1.83	1.67	11.51	10.91	1.16
T.MASS_02	867.50	Max WS	UF_TR200_D3	36.82	354.28	355.83	356.07	356.73	0.012028	4.51	1.83	1.62	10.12	10.22	1.20
T.MASS_02	867.50	Max WS	UF_TR200_D4	32.74	354.28	355.70	355.94	356.61	0.013487	4.48	1.83	1.59	8.85	9.55	1.25
T.MASS_02	860	Max WS	UF_TR200_D1	38.79	353.39	355.65	355.26	356.23	0.005589	3.67	1.06	1.82	13.12	6.47	0.78
T.MASS_02	860	Max WS	UF_TR200_D2	41.52	353.39	355.74	355.34	356.36	0.005635	3.78	1.08	1.86	13.69	6.48	0.79
T.MASS_02	860	Max WS	UF_TR200_D3	36.90	353.39	355.60	355.21	356.15	0.005453	3.57	1.04	1.78	12.80	6.47	0.77
T.MASS_02	860	Max WS	UF_TR200_D4	32.81	353.39	355.46	355.08	355.96	0.005406	3.40	1.02	1.71	11.87	6.45	0.75
T.MASS_02	855		Bridge												
T.MASS_02	850	Max WS	UF_TR200_D1	38.79	353.39	355.42		356.15	0.008066	4.10	1.23	2.07	11.62	6.45	0.92
T.MASS_02	850	Max WS	UF_TR200_D2	41.52	353.39	355.51		356.27	0.007984	4.20	1.25	2.10	12.20	6.46	0.92
T.MASS_02	850	Max WS	UF_TR200_D3	36.90	353.39	355.36		356.06	0.008172	4.04	1.23	2.05	11.19	6.44	0.92
T.MASS_02	850	Max WS	UF_TR200_D4	32.81	353.39	355.22		355.87	0.008306	3.88	1.21	1.98	10.30	6.42	0.92
T.MASS_02	820	Max WS	UF_TR200_D1	38.83	353.15	355.33	355.19	356.16	0.008951	4.15	1.19	1.54	10.52	5.40	0.90
T.MASS_02	820	Max WS	UF_TR200_D2	41.56	353.15	355.42	355.28	356.30	0.008939	4.26	1.20	1.57	11.01	5.40	0.90
T.MASS_02	820	Max WS	UF_TR200_D3	36.93	353.15	355.27	355.12	356.07	0.009003	4.08	1.18	1.52	10.16	5.40	0.90
T.MASS_02	820	Max WS	UF_TR200_D4	32.84	353.15	355.13	354.99	355.86	0.008980	3.89	1.15	1.47	9.41	5.40	0.88
T.MASS_02	815		Bridge												
T.MASS_02	800	Max WS	UF_TR200_D1	38.83	352.10	353.55	354.11	355.50	0.035229	6.29	2.03	2.13	6.64	5.39	1.67
T.MASS_02	800	Max WS	UF_TR200_D2	41.56	352.10	353.61	354.19	355.65	0.035187	6.46	2.10	2.21	6.95	5.39	1.68
T.MASS_02	800	Max WS	UF_TR200_D3	36.93	352.10	353.51	354.05	355.38	0.035038	6.16	1.97	2.07	6.43	5.39	1.66
T.MASS_02	800	Max WS	UF_TR200_D4	32.84	352.10	353.42	353.92	355.13	0.034733	5.88	1.83	1.91	5.96	5.39	1

HEC-RAS 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 # Cbl
T.MASS_02	787														
			Bridge												
T.MASS_02	785	Max WS	UF_TR200_D1	39.27	349.46	351.02	351.22	352.01	0.015775	4.44	1.32	1.37	9.38	7.68	1.14
T.MASS_02	785	Max WS	UF_TR200_D2	42.00	349.46	351.09	351.29	352.11	0.015590	4.54	1.42	1.48	9.88	7.71	1.14
T.MASS_02	785	Max WS	UF_TR200_D3	37.38	349.46	350.98	351.17	351.93	0.015879	4.37	1.24	1.29	9.03	7.66	1.13
T.MASS_02	785	Max WS	UF_TR200_D4	33.25	349.46	350.88	351.05	351.77	0.016121	4.21	1.03	1.06	8.26	7.60	1.13
T.MASS_02	770	Max WS	UF_TR200_D1	39.41	348.61	350.55	350.37	351.14	0.007263	3.50	1.32	1.35	12.44	8.09	0.81
T.MASS_02	770	Max WS	UF_TR200_D2	42.13	348.61	350.62	350.44	351.24	0.007267	3.59	1.37	1.41	13.03	8.13	0.81
T.MASS_02	770	Max WS	UF_TR200_D3	37.50	348.61	350.50	350.33	351.07	0.007226	3.43	1.28	1.31	12.04	8.06	0.80
T.MASS_02	770	Max WS	UF_TR200_D4	33.37	348.61	350.39	350.22	350.91	0.007188	3.28	1.19	1.22	11.12	8.00	0.79
T.MASS_02	765		Bridge												
T.MASS_02	760	Max WS	UF_TR200_D1	39.41	347.23	348.49	348.89	349.82	0.025979	5.25	1.48	2.04	8.35	8.95	1.49
T.MASS_02	760	Max WS	UF_TR200_D2	42.13	347.23	348.54	348.95	349.92	0.025874	5.37	1.53	2.17	8.77	8.96	1.50
T.MASS_02	760	Max WS	UF_TR200_D3	37.50	347.23	348.46	348.84	349.75	0.025927	5.16	1.43	1.94	8.07	8.94	1.48
T.MASS_02	760	Max WS	UF_TR200_D4	33.37	347.23	348.39	348.75	349.59	0.026027	4.96	1.31	1.89	7.40	8.91	1.47
T.MASS_02	759.1		Lat Struct												
T.MASS_02	759		Lat Struct												
T.MASS_02	750	Max WS	UF_TR200_D1	39.64	345.51	347.49	347.21	347.96	0.003984	3.10	0.93	0.61	14.31	9.24	0.74
T.MASS_02	750	Max WS	UF_TR200_D2	42.35	345.51	347.56	347.27	348.05	0.003987	3.18	0.97	0.63	14.96	9.24	0.74
T.MASS_02	750	Max WS	UF_TR200_D3	37.72	345.51	347.44	347.17	347.89	0.003983	3.04	0.90	0.60	13.85	9.24	0.73
T.MASS_02	750	Max WS	UF_TR200_D4	33.58	345.51	347.33	347.06	347.74	0.003957	2.90	0.83	0.57	12.83	9.24	0.72
T.MASS_02	749.50		Bridge												
T.MASS_02	749	Max WS	UF_TR200_D1	39.64	345.51	347.00	347.20	347.95	0.012076	4.37	0.99	0.76	9.79	9.24	1.22
T.MASS_02	749	Max WS	UF_TR200_D2	42.35	345.51	347.05	347.27	348.05	0.011982	4.47	1.08	0.80	10.28	9.24	1.22
T.MASS_02	749	Max WS	UF_TR200_D3	37.72	345.51	346.96	347.16	347.88	0.012136	4.29	0.93	0.73	9.43	9.24	1.22
T.MASS_02	749	Max WS	UF_TR200_D4	33.58	345.51	346.88	347.06	347.73	0.012194	4.11	0.77	0.64	8.66	9.24	1.21
T.MASS_02	740	Max WS	UF_TR200_D1	40.04	343.59	345.35	345.58	346.39	0.014171	4.68	1.74	1.80	9.64	8.13	1.24
T.MASS_02	740	Max WS	UF_TR200_D2	42.73	343.59	345.47	345.65	346.45	0.012150	4.57	1.72	1.77	10.63	8.29	1.16
T.MASS_02	740	Max WS	UF_TR200_D3	38.11	343.59	345.31	345.53	346.31	0.013931	4.57	1.69	1.75	9.37	8.09	1.22
T.MASS_02	740	Max WS	UF_TR200_D4	33.93	343.59	345.18	345.42	346.17	0.015457	4.52	1.64	1.69	8.34	7.92	1.27
T.MASS_03	738		Lat Struct												
T.MASS_03	737.9		Lat Struct												
T.MASS_03	730	Max WS	UF_TR200_D1	45.24	342.17	344.81	344.36	345.26	0.003780	3.35	1.55	1.54	17.83	10.30	0.67
T.MASS_03	730	Max WS	UF_TR200_D2	49.53	342.17	345.00	344.46	345.44	0.003443	3.35	1.55	1.53	19.77	10.77	0.65
T.MASS_03	730	Max WS	UF_TR200_D3	44.45	342.17	344.79	344.34	345.23	0.003794	3.34	1.54	1.53	17.57	10.24	0.67
T.MASS_03	730	Max WS	UF_TR200_D4	36.15	342.17	344.65	344.11	345.00	0.003121	2.91	1.34	1.34	16.19	9.89	0.80
T.MASS_03	725		Bridge												
T.MASS_03	720	Max WS	UF_TR200_D1	45.24	342.17	344.40	344.35	345.13	0.007457	4.19	1.91	1.94	13.83	9.26	0.91
T.MASS_03	720	Max WS	UF_TR200_D2	49.53	342.17	344.50	344.46	345.27	0.007576	4.34	1.99	2.01	14.71	9.50	0.93
T.MASS_03	720	Max WS	UF_TR200_D3	44.45	342.17	344.39	344.33	345.10	0.007338	4.14	1.89	1.92	13.73	9.24	0.91
T.MASS_03	720	Max WS	UF_TR200_D4	39.66	342.17	344.29	344.20	344.94	0.007151	3.95	1.79	1.83	12.74	8.96	0.89
T.MASS_03	719.9		Lat Struct												
T.MASS_03	719.67	Max WS	UF_TR200_D1	45.41	342.09	344.12	345.04	346.87	0.027905	8.41	1.86	3.44	7.89	6.76	1.92
T.MASS_03	719.67	Max WS	UF_TR200_D2	49.86	342.09	344.21	345.14	347.08	0.027720	8.65	1.92	3.54	8.55	7.17	1.93
T.MASS_03	719.67	Max WS	UF_TR200_D3	44.81	342.09	344.11	345.03	346.82	0.027581	8.34	1.84	3.42	7.84	6.73	1.91
T.MASS_03	719.67	Max WS	UF_TR200_D4	40.00	342.09	344.00	344.85	346.55	0.027511	8.02	1.79	3.30	7.15	6.27	1.89
T.MASS_03	719	Max WS	UF_TR200_D1	45.79	340.83	343.23	343.70	344.71	0.022747	5.54	2.01	0.86	9.18	8.20	1.29
T.MASS_03	719	Max WS	UF_TR200_D2	50.50	340.83	343.33	343.81	344.86	0.022228	5.68	2.26	1.10	10.06	8.65	1.28
T.MASS_03	719	Max WS	UF_TR200_D3	45.47	340.83	343.23	343.69	344.69	0.022309	5.49	2.00	0.86	9.20	8.21	1.27
T.MASS_03	719	Max WS	UF_TR200_D4	40.65	340.83	343.12	343.57	344.50	0.022334	5.29	1.69	0.58	8.38	7.77	1.26
T.MASS_03	718	Max WS	UF_TR200_D1	45.90	340.12	342.63	342.75	343.50	0.010605	4.55	2.07	2.07	12.71	9.51	0.97
T.MASS_03	718	Max WS	UF_TR200_D2	50.58	340.12	342.74	342.86	343.64	0.010402	4.66	2.16	2.16	13.83	9.97	0.96
T.MASS_03	718	Max WS	UF_TR200_D3	45.55	340.12	342.65	342.74	343.48	0.009989	4.44	2.03	2.03	12.94	9.59	0.94
T.MASS_03	718	Max WS	UF_TR200_D4	40.74	340.12	342.55	342.62	343.32	0.009652	4.24	1.90	1.90	12.01	9.28	0.92
T.MASS_03	715	Max WS	UF_TR200_D1	45.93	339.50	342.02	342.37	343.20	0.023789	5.50	2.99	2.99	10.70	9.39	1.14
T.MASS_03	715	Max WS	UF_TR200_D2	50.68	339.50	342.17	342.47	343.27	0.021063	5.39	3.03	3.03	12.12	9.94	1.09
T.MASS_03	715	Max WS	UF_TR200_D3	45.66	339.50	342.11	342.37	343.10	0.019195	5.07	2.82	2.82	11.59	9.75	1.03
T.MASS_03	715	Max WS	UF_TR200_D4	40.82	339.50	342.04	342.26	342.93	0.017785	4.79	2.62	2.62	10.93	9.49	0.99
T.MASS_VALLE	710	Max WS	UF_TR200_D1	90.45	339.33	341.81		342.15	0.008823	2.61	0.85		35.11	21.40	0.64
T.MASS_VALLE	710	Max WS	UF_TR200_D2	106.17	339.33	341.93		342.34	0.009658	2.84	0.95		37.89	21.67	0.68
T.MASS_VALLE	710	Max WS	UF_TR200_D3	104.70	339.33	341.92		342.32	0.009632	2.83	0.94		37.58	21.64	0.68
T.MASS_VALLE	710	Max WS	UF_TR200_D4	96.52	339.33	341.87		342.24	0.008866	2.67	0.88		36.59	21.54	0.65
T.MASS_VALLE	709.99		Lat Struct												
T.MASS_VALLE	709.9		Lat Struct												
T.MASS_VALLE	700	Max WS	UF_TR200_D1	85.97	336.48	339.58		340.09	0.011662	3.15			27.28	13.62	0.71
T.MASS_VALLE	700	Max WS	UF_TR200_D2	90.98	336.48	339.82		340.27	0.009586	2.97			30.67	14.45	0.65
T.MASS_VALLE	700	Max WS	UF_TR200_D3	89.34	336.48	339.75		340.21	0.010113	3.01			29.64	14.20	0.67
T.MASS_VALLE	700	Max WS	UF_TR200_D4	90.20	336.48	339.68		340.18	0.011335	3.15			28.60	13.95	0.70
T.MASS_VALLE	690	Max WS	UF_TR200_D1	95.18	334.48	337.29		337.73	0.010155	2.94			32.37	17.14	0.68
T.MASS_VALLE	690	Max WS	UF_TR200_D2	117.65	334.48	337.61		338.10	0.009896	3.09			38.08	18.29	0.68
T.MASS_VALLE	690	Max WS	UF_TR200_D3	111.98	334.48	337.54		338.01	0.009934	3.05			36.68	18.00	0.68
T.MASS_VALLE	690	Max WS	UF_TR200_D4	103.24	334.48	337.42		337.87	0.009953	2.99			34.56	17.58	0.68
T.MASS_VALLE	650	Max WS	UF_TR200_D1	95.34	331.94	335.24		335.83	0.012749	3.39			28.15	13.40	

ALLEGATI

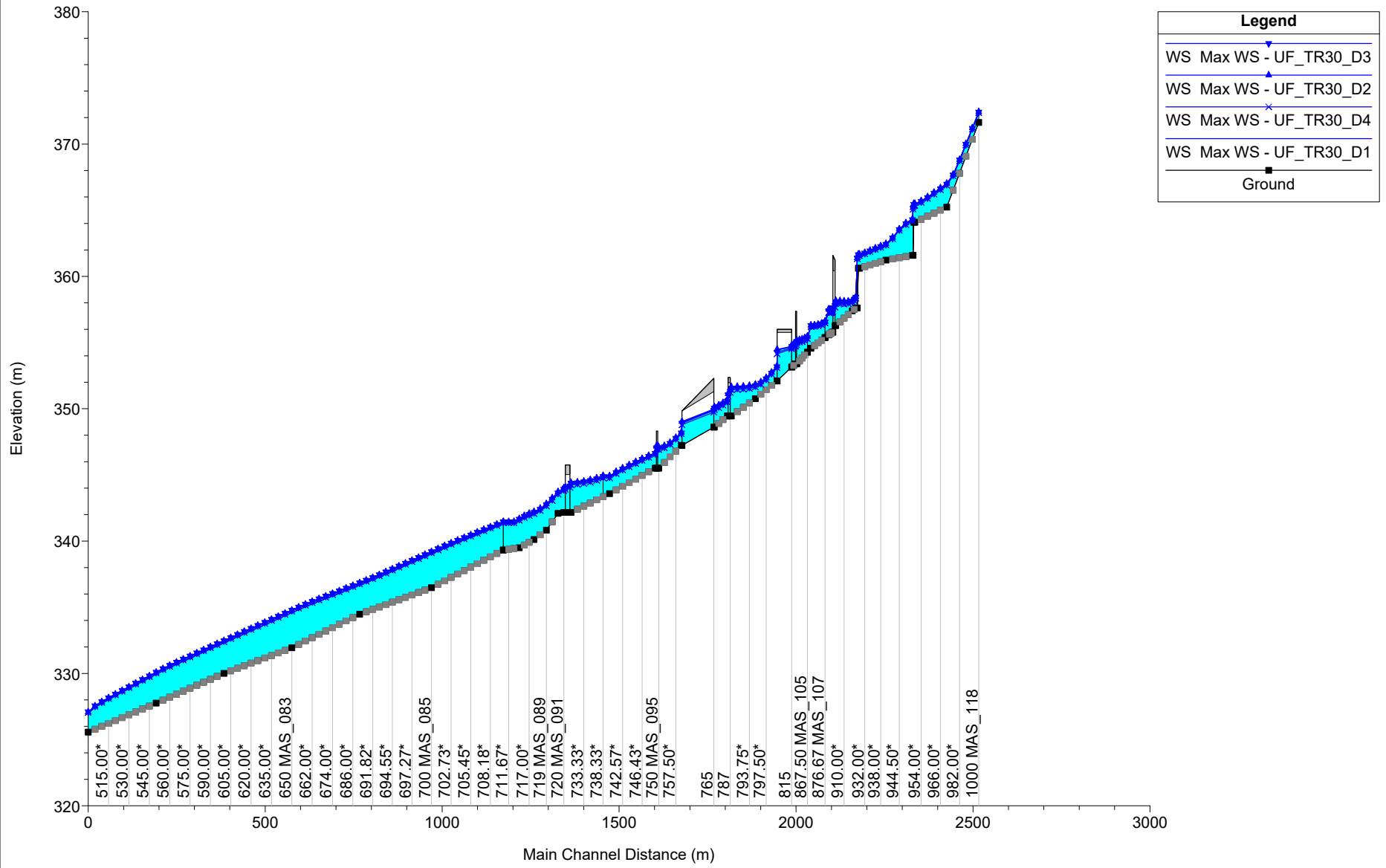
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

T.MASS

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

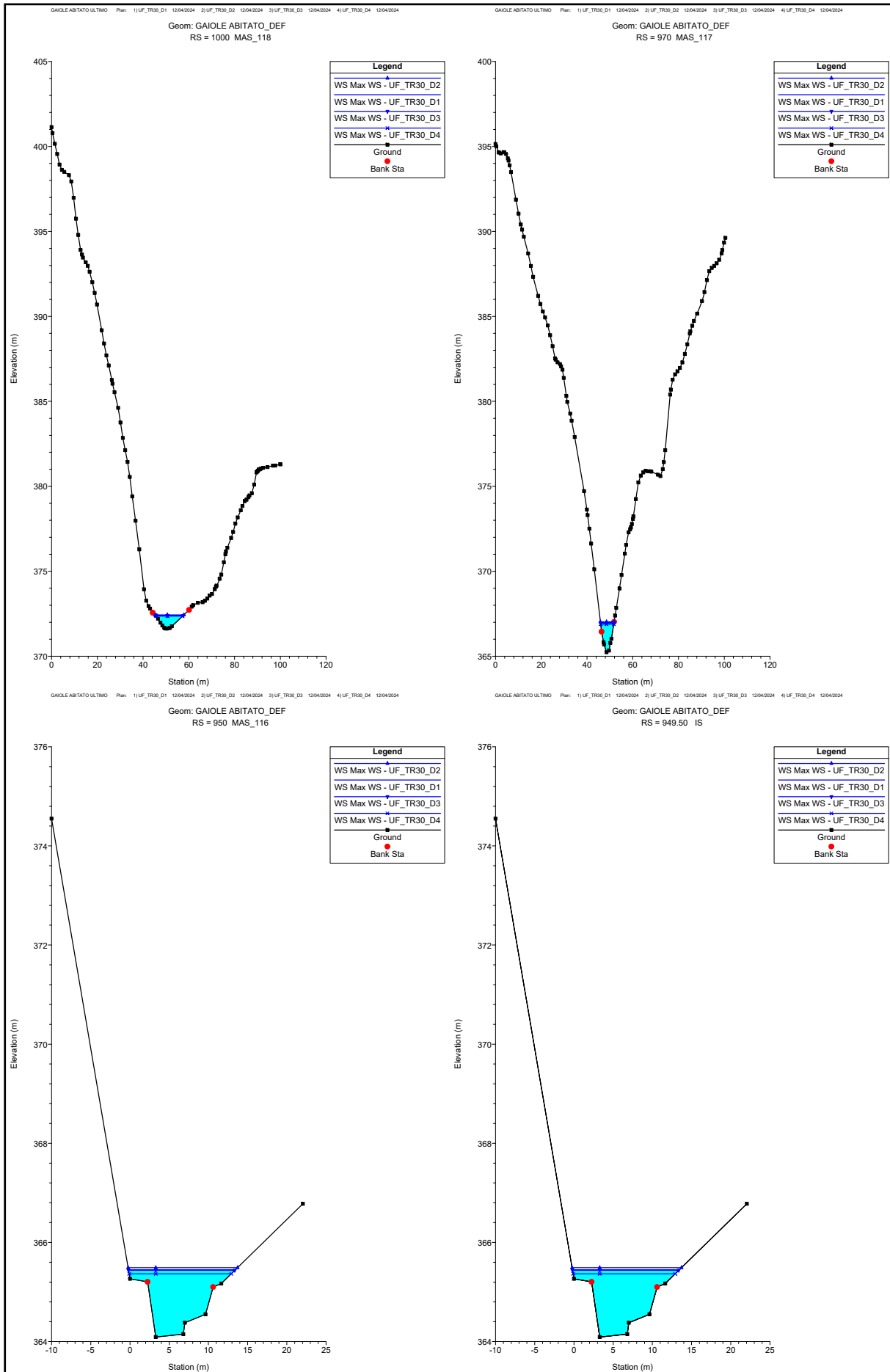
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

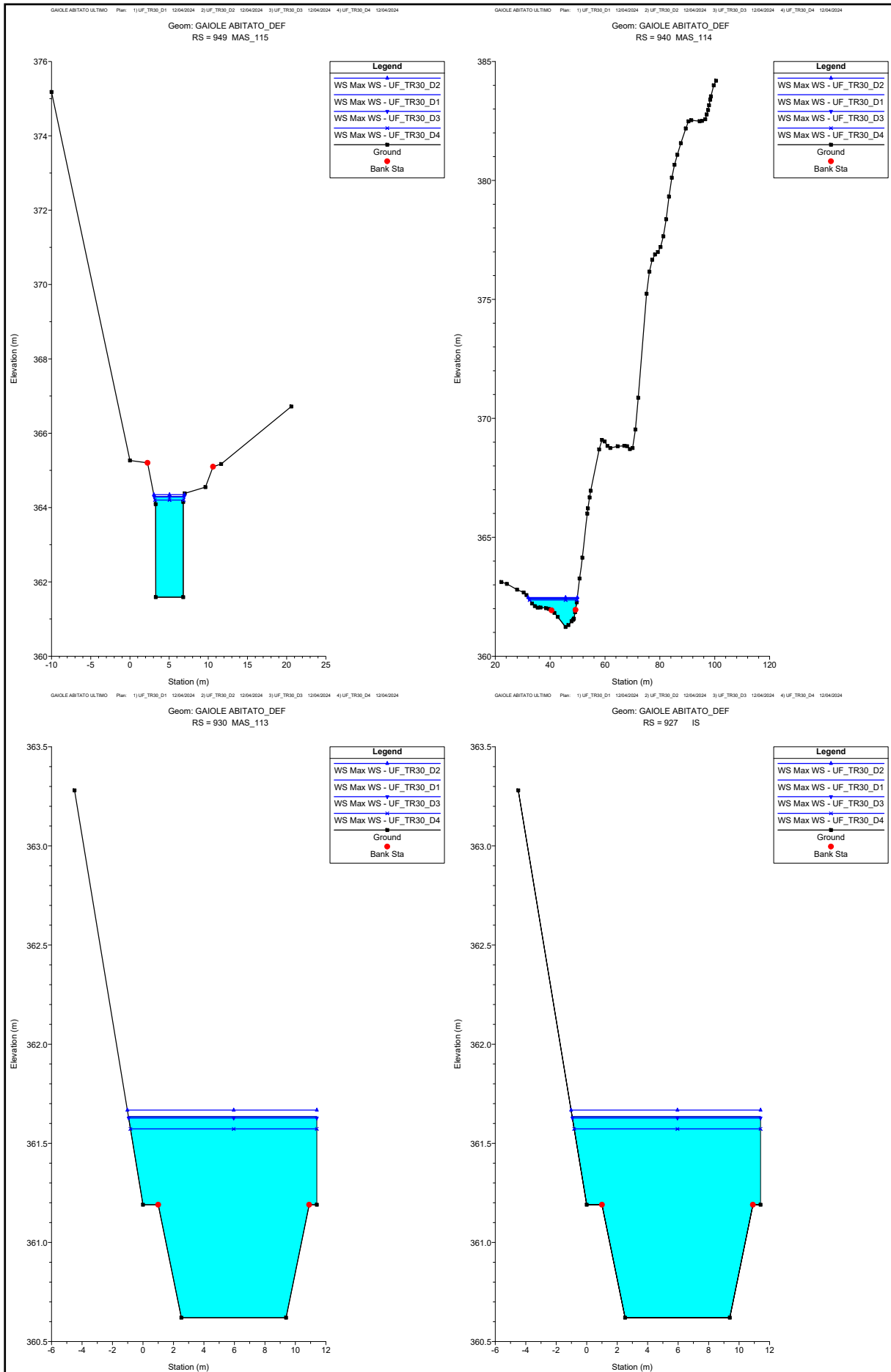
T.MASS

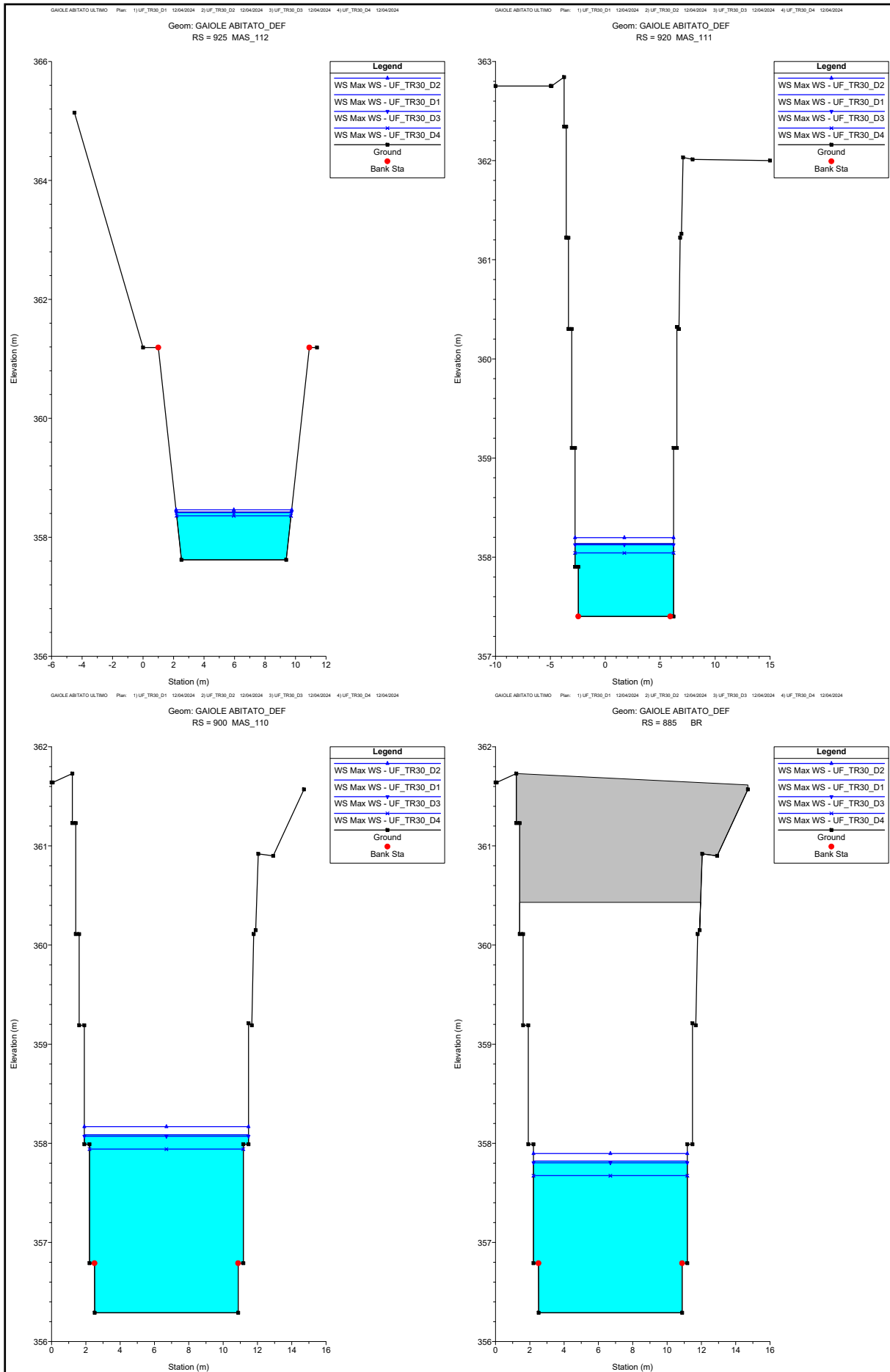
MODELLAZIONE PER TR= 30 anni

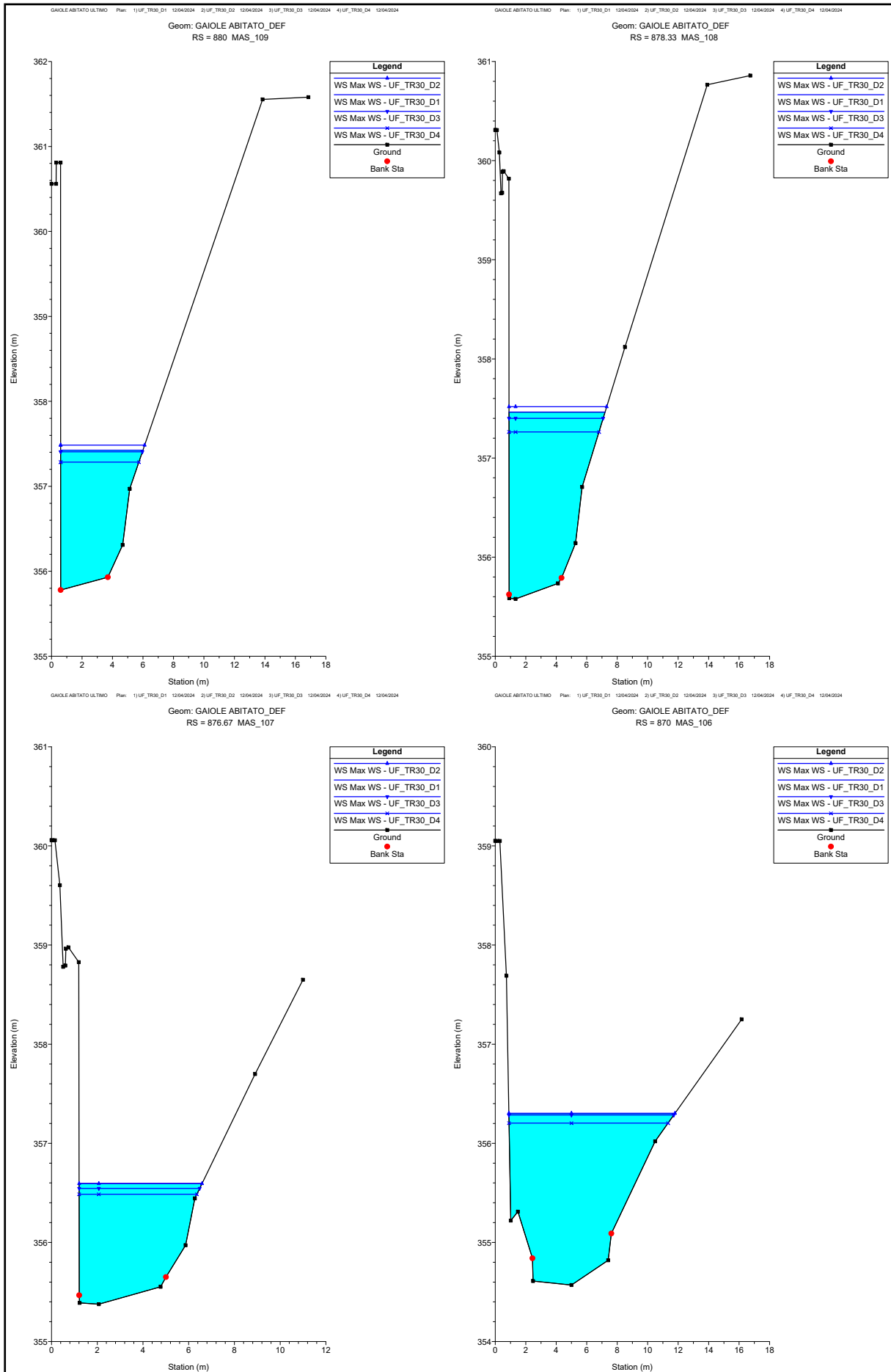
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

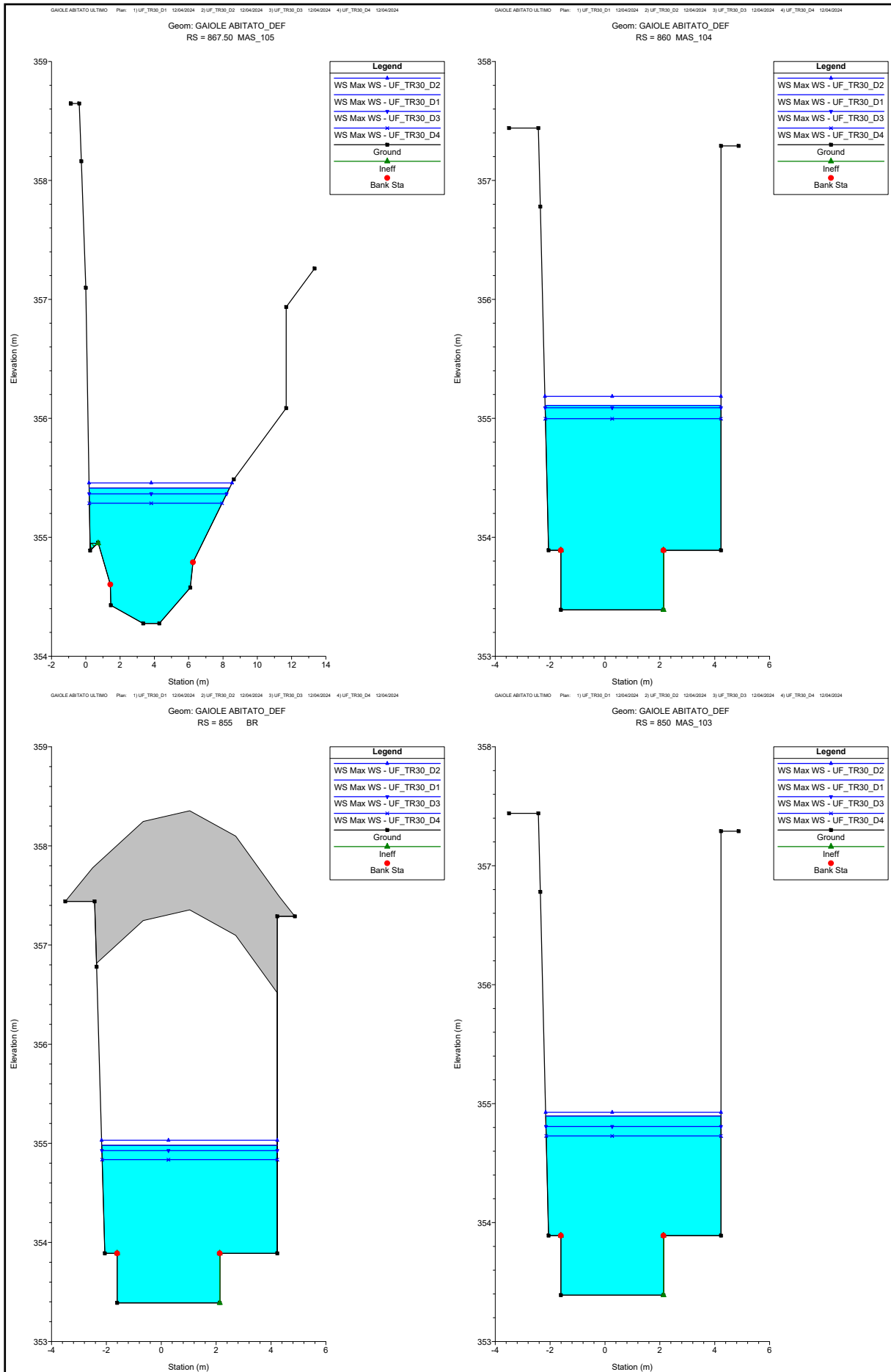
Sezioni Trasversali (da monte verso valle)

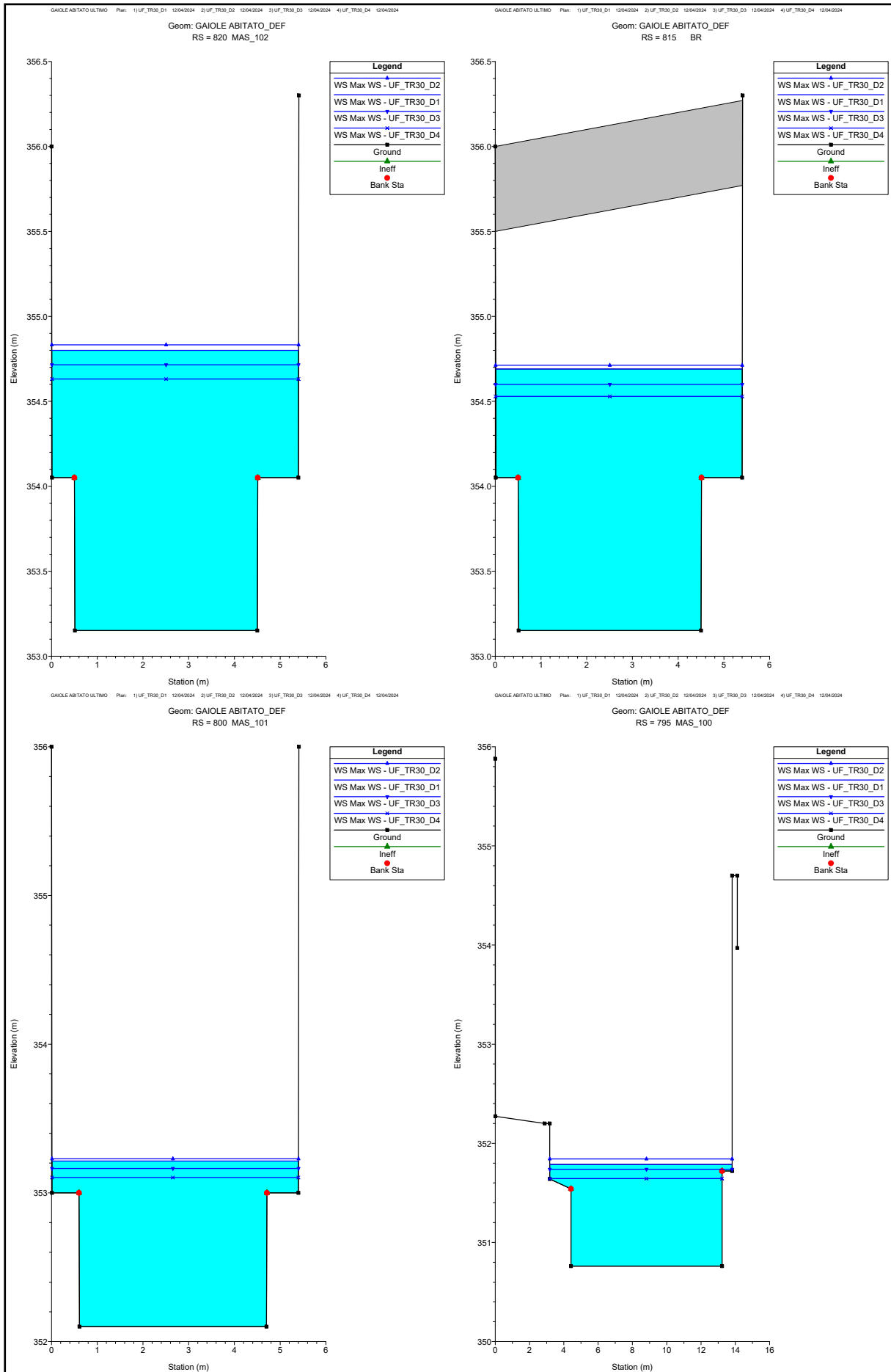


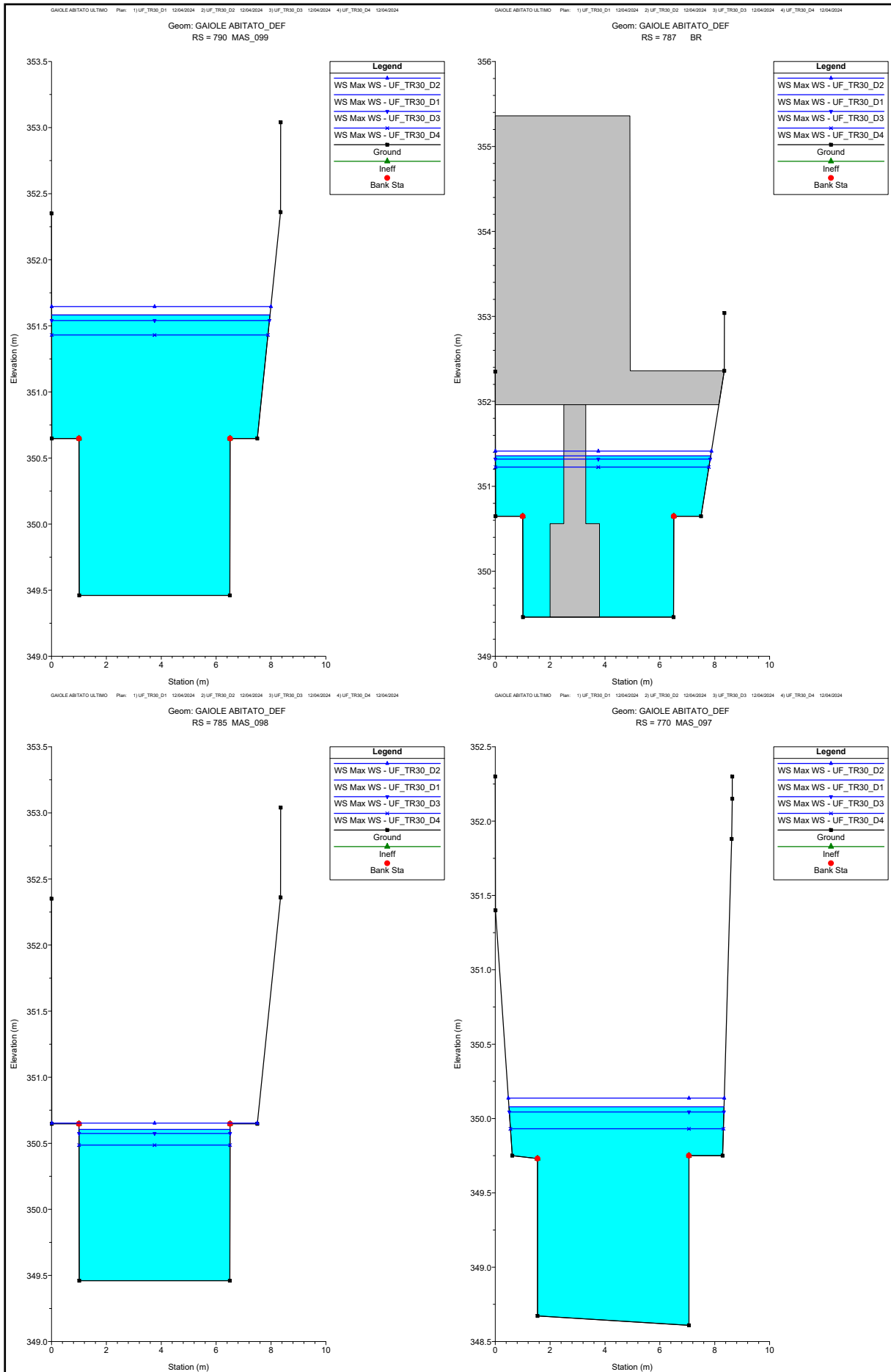


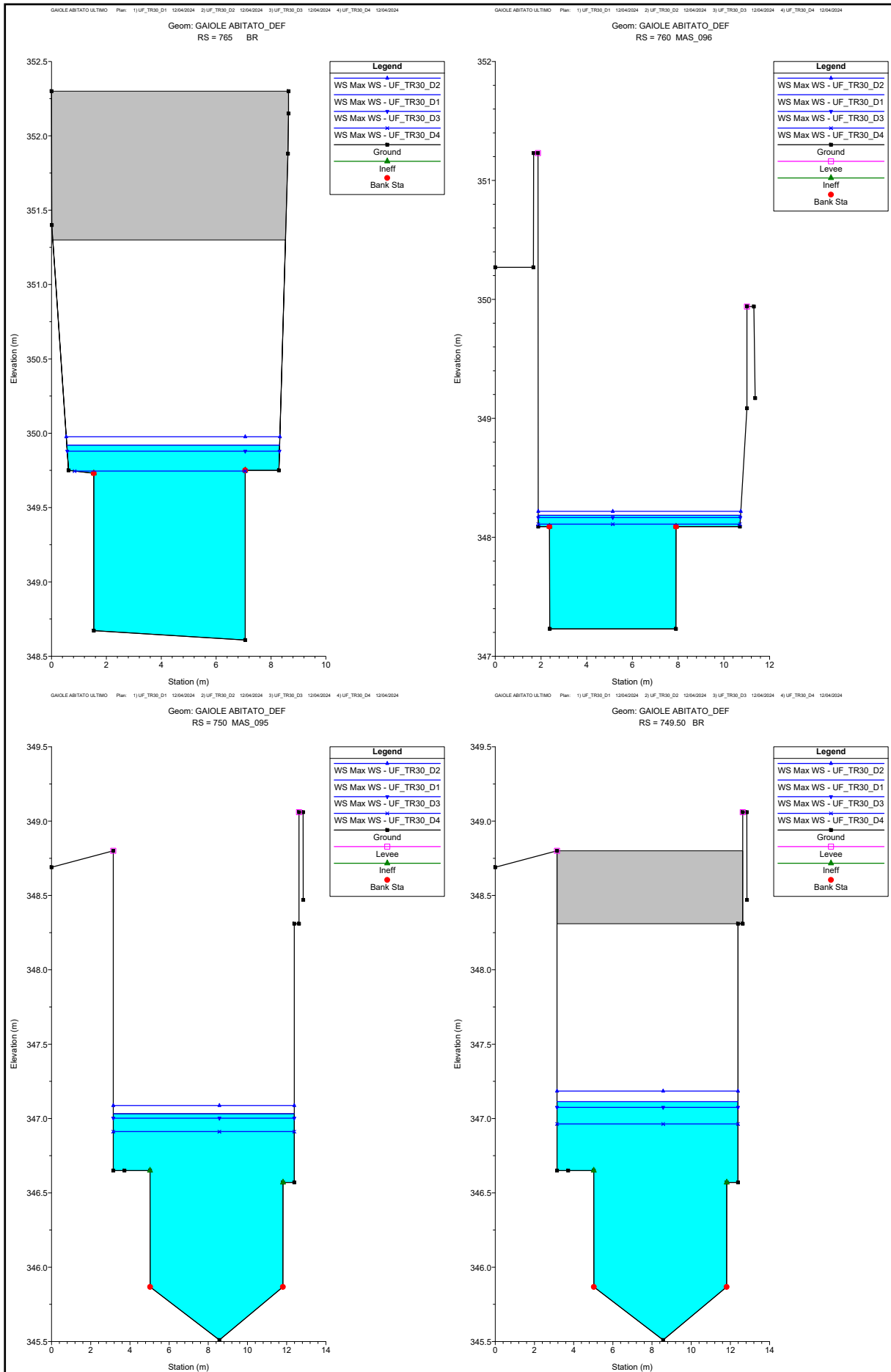


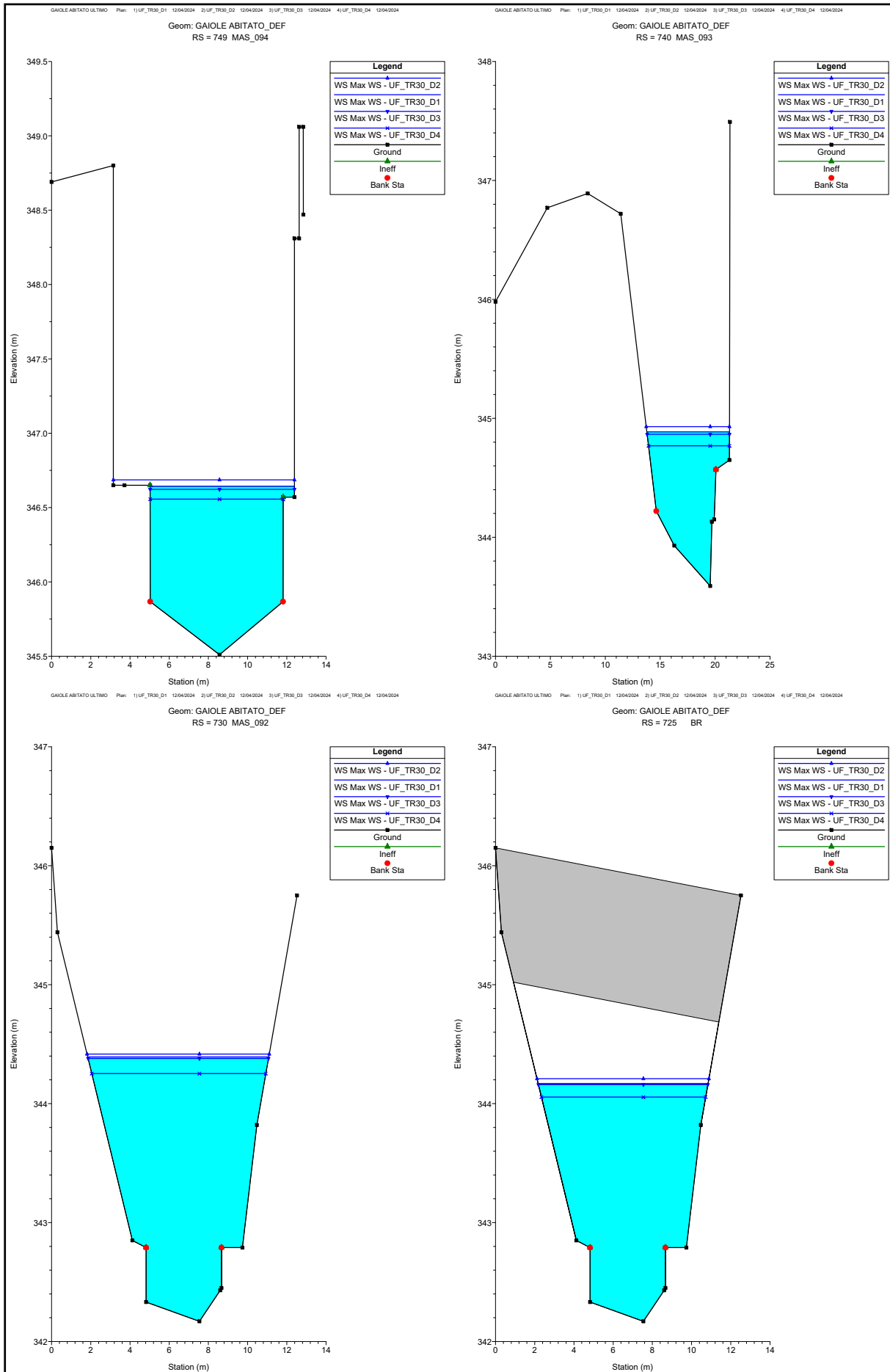


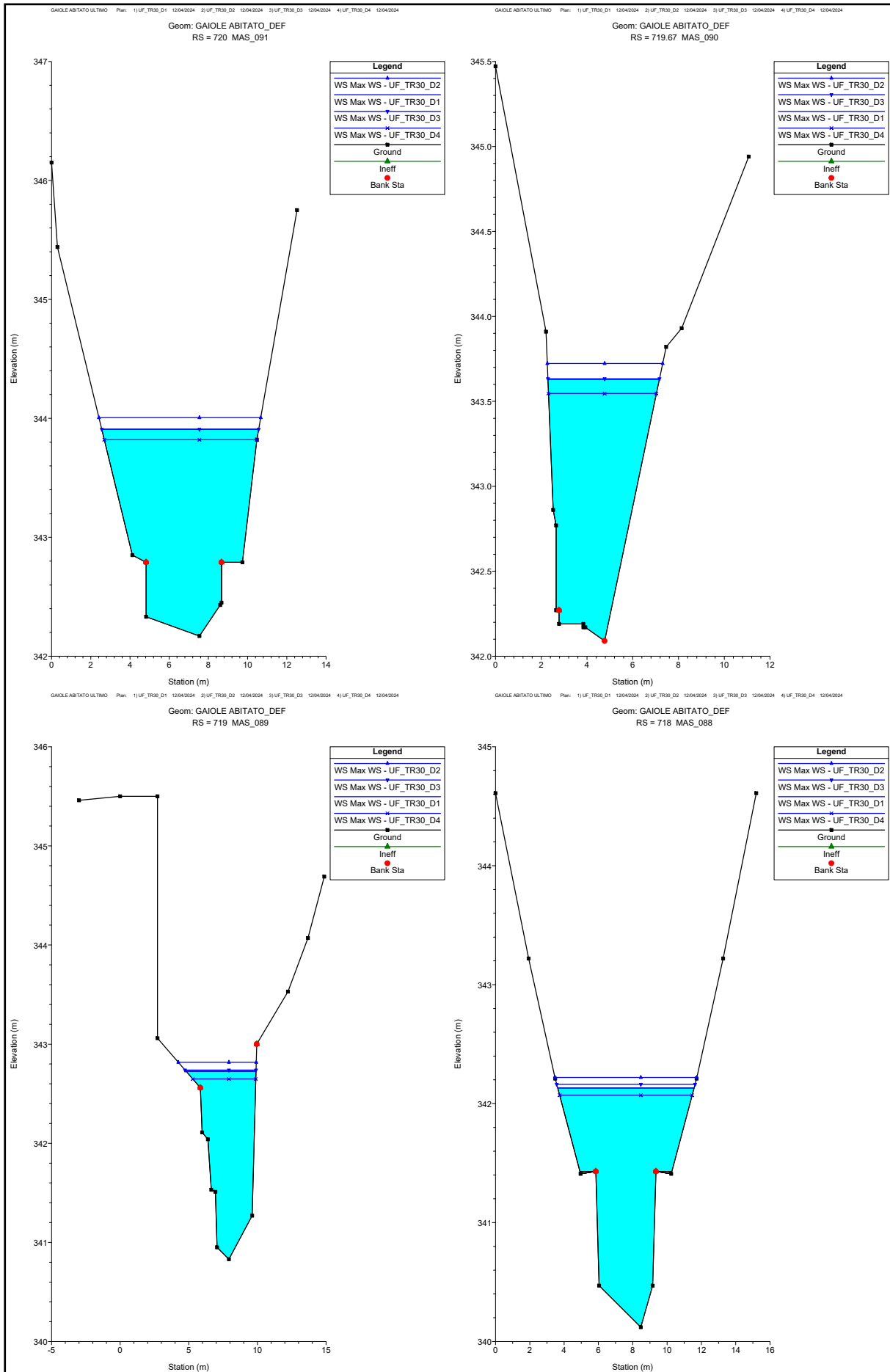


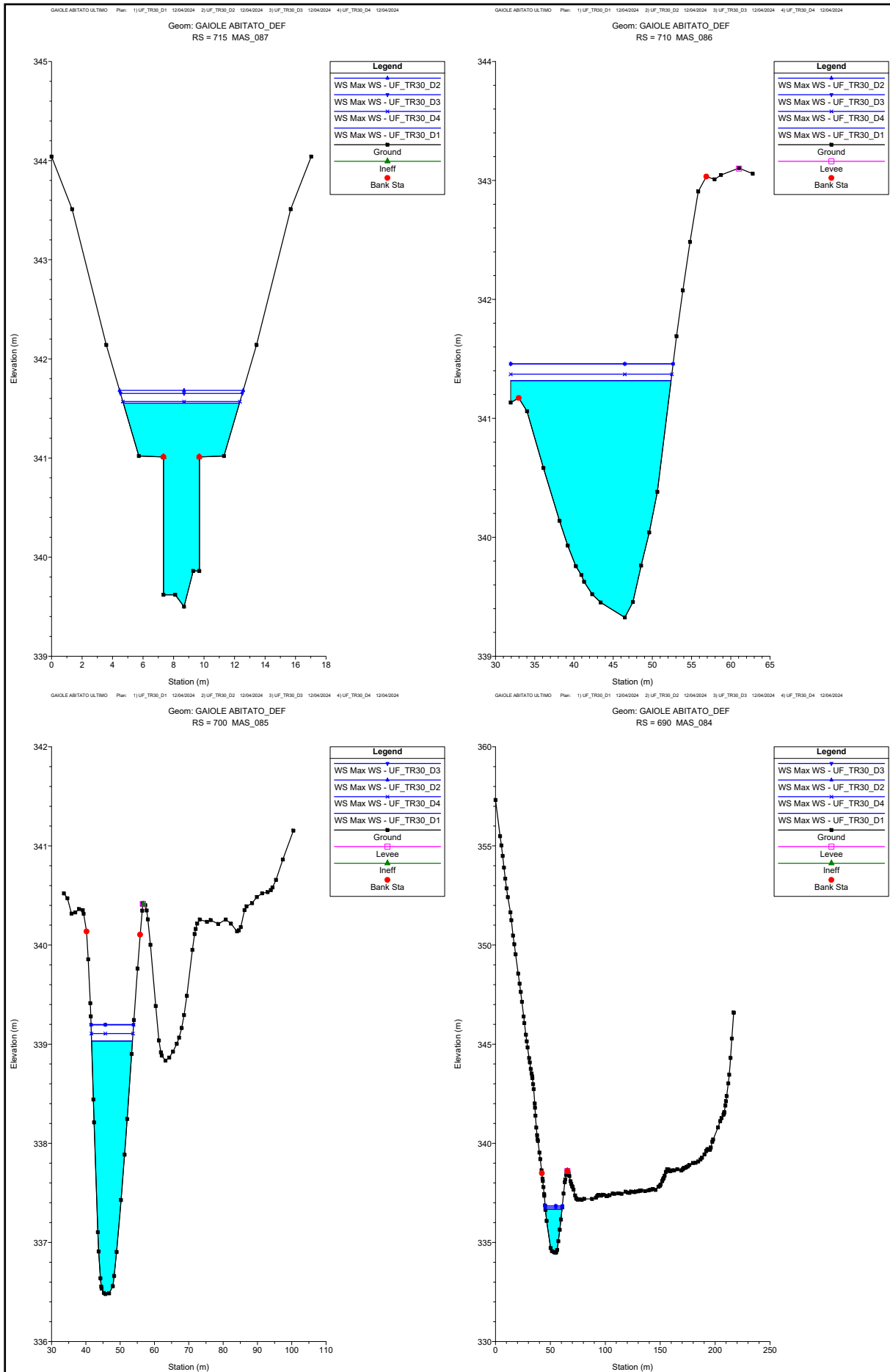


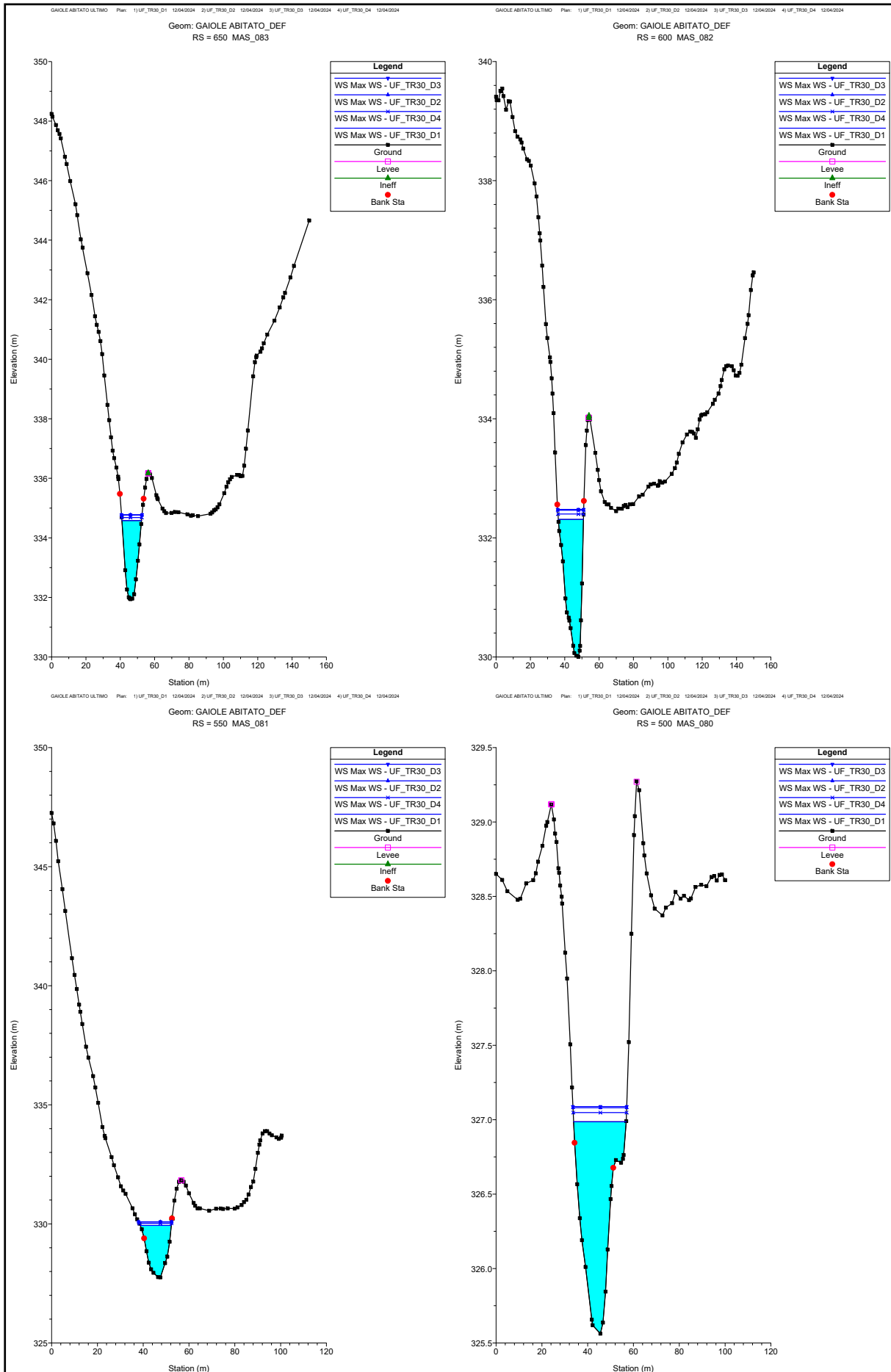












ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

T.MASS

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
TORRENTE MASSELL	1000	Max WS	UF_TR30_D1	17.82	371.63	372.41	372.57	372.93	0.074449	3.21			5.55	12.16	1.52
TORRENTE MASSELL	1000	Max WS	UF_TR30_D2	19.07	371.63	372.43	372.60	372.97	0.074096	3.25			5.87	12.60	1.52
TORRENTE MASSELL	1000	Max WS	UF_TR30_D3	17.53	371.63	372.40	372.56	372.92	0.074642	3.20			5.47	12.08	1.52
TORRENTE MASSELL	1000	Max WS	UF_TR30_D4	15.63	371.63	372.36	372.52	372.86	0.075938	3.13			4.99	11.54	1.52
TORRENTE MASSELL	970	Max WS	UF_TR30_D1	17.81	365.23	366.98		367.38	0.019496	2.80	0.44		6.47	5.91	0.83
TORRENTE MASSELL	970	Max WS	UF_TR30_D2	19.07	365.23	367.02		367.44	0.019940	2.88	0.47		6.74	6.01	0.84
TORRENTE MASSELL	970	Max WS	UF_TR30_D3	17.53	365.23	366.97		367.36	0.019438	2.78	0.43		6.40	5.89	0.83
TORRENTE MASSELL	970	Max WS	UF_TR30_D4	15.63	365.23	366.89		367.25	0.019034	2.66	0.38		5.94	5.72	0.81
TORRENTE MASSELL	950	Max WS	UF_TR30_D1	17.81	364.09	365.45	365.15	365.64	0.009812	1.95	0.34	0.34	9.99	13.63	0.60
TORRENTE MASSELL	950	Max WS	UF_TR30_D2	19.06	364.09	365.49	365.19	365.69	0.009758	2.00	0.37	0.36	10.59	13.96	0.61
TORRENTE MASSELL	950	Max WS	UF_TR30_D3	17.52	364.09	365.44	365.14	365.63	0.009837	1.94	0.33	0.33	9.85	13.56	0.60
TORRENTE MASSELL	950	Max WS	UF_TR30_D4	15.63	364.09	365.37	365.08	365.54	0.010036	1.87	0.25	0.29	8.90	13.02	0.60
TORRENTE MASSELL	949.50														
TORRENTE MASSELL	949	Max WS	UF_TR30_D1	17.81	361.59	364.29		364.47	0.008121	1.87			9.53	3.82	0.38
TORRENTE MASSELL	949	Max WS	UF_TR30_D2	19.06	361.59	364.35		364.54	0.008854	1.96			9.73	3.91	0.40
TORRENTE MASSELL	949	Max WS	UF_TR30_D3	17.52	361.59	364.28		364.46	0.007947	1.85			9.49	3.80	0.37
TORRENTE MASSELL	949	Max WS	UF_TR30_D4	15.63	361.59	364.20		364.35	0.006820	1.70			9.18	3.66	0.34
TORRENTE MASSELL	940	Max WS	UF_TR30_D1	17.81	361.23	362.43		362.63	0.012744	2.07	0.55	0.39	10.85	17.70	0.70
TORRENTE MASSELL	940	Max WS	UF_TR30_D2	19.06	361.23	362.47		362.67	0.012547	2.11	0.58	0.40	11.50	17.95	0.70
TORRENTE MASSELL	940	Max WS	UF_TR30_D3	17.52	361.23	362.42		362.62	0.012776	2.06	0.55	0.38	10.70	17.64	0.70
TORRENTE MASSELL	940	Max WS	UF_TR30_D4	15.62	361.23	362.37		362.55	0.012949	1.98	0.50	0.35	9.73	17.27	0.70
TORRENTE MASSELL	931														
TORRENTE MASSELL	930	Max WS	UF_TR30_D1	16.56	360.62	361.63	361.37	361.78	0.008572	1.74	0.72	0.59	10.07	12.36	0.58
TORRENTE MASSELL	930	Max WS	UF_TR30_D2	17.51	360.62	361.67	361.40	361.82	0.008482	1.77	0.75	0.60	10.48	12.44	0.58
TORRENTE MASSELL	930	Max WS	UF_TR30_D3	16.35	360.62	361.63	361.37	361.77	0.008595	1.73	0.72	0.59	9.97	12.35	0.58
TORRENTE MASSELL	930	Max WS	UF_TR30_D4	14.85	360.62	361.57	361.33	361.71	0.008769	1.68	0.67	0.56	9.31	12.23	0.58
TORRENTE MASSELL	927														
TORRENTE MASSELL	925	Max WS	UF_TR30_D1	16.56	357.62	358.42	358.44	358.84	0.034770	2.86			5.79	7.55	1.04
TORRENTE MASSELL	925	Max WS	UF_TR30_D2	17.50	357.62	358.46	358.47	358.88	0.033232	2.87			6.09	7.59	1.02
TORRENTE MASSELL	925	Max WS	UF_TR30_D3	16.35	357.62	358.41	358.44	358.83	0.034991	2.85			5.73	7.55	1.05
TORRENTE MASSELL	925	Max WS	UF_TR30_D4	14.86	357.62	358.36	358.39	358.76	0.036160	2.79			5.33	7.50	1.06
TORRENTE MASSELL	920	Max WS	UF_TR30_D1	16.60	357.40	358.14	358.12	358.49	0.009579	2.66	0.41	1.16	6.44	8.97	0.99
TORRENTE MASSELL	920	Max WS	UF_TR30_D2	17.59	357.40	358.20		358.54	0.008267	2.60	0.43	1.10	6.98	8.97	0.93
TORRENTE MASSELL	920	Max WS	UF_TR30_D3	16.40	357.40	358.12	358.12	358.48	0.009658	2.67	0.40	1.18	6.33	8.97	1.00
TORRENTE MASSELL	920	Max WS	UF_TR30_D4	14.88	357.40	358.04	358.07	358.42	0.012128	2.73	0.35	1.27	5.59	8.97	1.09
TORRENTE MASSELL	900	Max WS	UF_TR30_D1	17.28	356.29	358.09	357.05	358.15	0.000618	1.14	0.23	0.23	15.87	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR30_D2	18.42	356.29	358.17	357.08	358.24	0.000606	1.16	0.23	0.23	16.65	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR30_D3	17.05	356.29	358.07	357.04	358.14	0.000620	1.13	0.22	0.22	15.72	9.57	0.27
TORRENTE MASSELL	900	Max WS	UF_TR30_D4	15.33	356.29	357.94	356.99	358.00	0.000644	1.10	0.24	0.24	14.52	8.97	0.27
TORRENTE MASSELL	885														
TORRENTE MASSELL	880	Max WS	UF_TR30_D1	15.70	355.78	357.43		357.78	0.003845	2.79	0.02	1.16	6.70	5.40	0.71
TORRENTE MASSELL	880	Max WS	UF_TR30_D2	18.41	355.78	357.48		357.93	0.004637	3.14	0.02	1.30	7.02	5.51	0.79
TORRENTE MASSELL	880	Max WS	UF_TR30_D3	19.27	355.78	357.41	357.30	357.95	0.006061	3.47	0.03	1.44	6.59	5.36	0.89
TORRENTE MASSELL	880	Max WS	UF_TR30_D4	17.42	355.78	357.28	357.20	357.82	0.006612	3.44	0.03	1.45	5.95	5.13	0.92
TORRENTE MASSELL	879.99														
TORRENTE MASSELL	878.33	Max WS	UF_TR30_D1	15.31	355.58	357.46		357.67	0.001878	2.13	0.02	0.86	8.63	6.30	0.50
TORRENTE MASSELL	878.33	Max WS	UF_TR30_D2	18.41	355.58	357.52		357.79	0.002437	2.47	0.03	1.00	8.97	6.41	0.58
TORRENTE MASSELL	878.33	Max WS	UF_TR30_D3	18.29	355.58	357.40		357.72	0.003050	2.65	0.03	1.07	8.23	6.18	0.64
TORRENTE MASSELL	878.33	Max WS	UF_TR30_D4	16.42	355.58	357.26		357.58	0.003300	2.61	0.03	1.06	7.40	5.91	0.66
T.MASS_01	876.67	Max WS	UF_TR30_D1	22.36	355.38	356.59	356.91	357.69	0.017947	4.79	0.08	1.97	5.17	5.38	1.43
T.MASS_01	876.67	Max WS	UF_TR30_D2	22.10	355.38	356.59	356.90	357.67	0.017517	4.74	0.07	1.95	5.17	5.38	1.42
T.MASS_01	876.67	Max WS	UF_TR30_D3	19.95	355.38	356.54	356.80	357.50	0.016584	4.48	0.07	1.86	4.91	5.27	1.37
T.MASS_01	876.67	Max WS	UF_TR30_D4	17.80	355.38	356.49	356.71	357.35	0.015993	4.23	0.07	1.78	4.61	5.15	1.33
T.MASS_01	870	Max WS	UF_TR30_D1	17.47	354.57	356.30		356.43	0.001506	1.73	0.73	0.64	12.56	10.89	0.43
T.MASS_01	870	Max WS	UF_TR30_D2	20.17	354.57	356.30		356.48	0.001996	1.99	0.84	0.74	12.59	10.90	0.50
T.MASS_01	870	Max WS	UF_TR30_D3	18.42	354.57	356.29		356.44	0.001730	1.84	0.78	0.68	12.40	10.82	0.46
T.MASS_01	870	Max WS	UF_TR30_D4	16.58	354.57	356.20		356.34	0.001698	1.76	0.75	0.65	11.53	10.43	0.45
T.MASS_02	867.50	Max WS	UF_TR30_D1	25.35	354.28	355.41	355.72	356.41	0.019718	4.61	1.84	1.57	6.34	8.19	1.45
T.MASS_02	867.50	Max WS	UF_TR30_D2	26.69	354.28	355.46	355.76	356.46	0.018741	4.62	1.86	1.60	6.71	8.34	1.42
T.MASS_02	867.50	Max WS	UF_TR30_D3	23.45	354.28	355.36	355.65	356.33	0.020099	4.51	1.78	1.50	5.95	8.02	1.45
T.MASS_02	867.50	Max WS	UF_TR30_D4	19.54	354.28	355.29	355.52	356.10	0.018863	4.14	1.59	1.32	5.33	7.74	1.38
T.MASS_02	860	Max WS	UF_TR30_D1	22.70	353.39	355.11	354.76	355.47	0.004900	2.86	0.91	1.47	9.61	6.41	0.70
T.MASS_02	860	Max WS	UF_TR30_D2	24.59	353.39	355.18	354.82	355.57	0.004955	2.96	0.93	1.52	10.09	6.42	0.71
T.MASS_02	860	Max WS	UF_TR30_D3	22.01	353.39	355.09	354.74	355.43	0.004798	2.81	0.89	1.45	9.48	6.41	0.69
T.MASS_02	860	Max WS	UF_TR30_D4	19.58	353.39	355.00	354.65	355.30	0.004602	2.65	0.86	1.37	8.89	6.40	0.67
T.MASS_02	855														
T.MASS_02	850	Max WS	UF_TR30_D1	24.91	353.39	354.90	354.83	355.47	0.009374	3.62	1.19	1.87	8.24	6.39	0.94
T.MASS_02	850	Max WS	UF_TR30_D2	25.82	353.39	354.93	354.86	355.52	0.009373	3.67	1.20	1.90	8.44	6.39	0.95
T.MASS_02	850	Max WS	UF_TR30_D3	22.01	353.39	354.81		355.32	0.009043	3.42	1.14	1.76	7.68	6.38	0.92
T.MASS_02	850	Max WS	UF_TR30_D4	20.75	353.39										

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
T.MASS_02	787														
T.MASS_02	785	Max WS	UF_TR30_D1	23.33	349.46	350.60	350.73	351.31	0.016402	3.71			6.29	5.51	1.11
T.MASS_02	785	Max WS	UF_TR30_D2	24.93	349.46	350.65	350.79	351.39	0.016565	3.80	0.10	0.10	6.57	7.49	1.11
T.MASS_02	785	Max WS	UF_TR30_D3	22.31	349.46	350.57	350.68	351.25	0.016246	3.64			6.13	5.51	1.10
T.MASS_02	785	Max WS	UF_TR30_D4	19.84	349.46	350.49	350.56	351.12	0.016361	3.51			5.64	5.51	1.11
T.MASS_02	770	Max WS	UF_TR30_D1	23.36	348.61	350.08	349.91	350.49	0.007101	2.86	0.86	0.87	6.68	7.84	0.76
T.MASS_02	770	Max WS	UF_TR30_D2	25.01	348.61	350.14	349.87	350.56	0.007045	2.93	0.93	0.94	9.14	7.87	0.76
T.MASS_02	770	Max WS	UF_TR30_D3	22.99	348.61	350.04	349.88	350.44	0.007125	2.82	0.81	0.82	8.41	7.82	0.76
T.MASS_02	770	Max WS	UF_TR30_D4	19.91	348.61	349.93	349.75	350.31	0.007613	2.76	0.65	0.64	7.53	7.76	0.78
T.MASS_02	765														
T.MASS_02	760	Max WS	UF_TR30_D1	23.36	347.23	348.18	348.48	349.15	0.026227	4.37	0.75	0.83	5.59	8.85	1.43
T.MASS_02	760	Max WS	UF_TR30_D2	25.01	347.23	348.22	348.53	349.23	0.026519	4.50	0.89	1.01	5.89	8.86	1.45
T.MASS_02	760	Max WS	UF_TR30_D3	22.40	347.23	348.17	348.45	349.10	0.025962	4.29	0.65	0.71	5.42	8.84	1.42
T.MASS_02	760	Max WS	UF_TR30_D4	19.91	347.23	348.11	348.38	348.96	0.025508	4.09	0.29	0.29	4.93	8.83	1.39
T.MASS_02	759.1														
T.MASS_02	759														
T.MASS_02	750	Max WS	UF_TR30_D1	23.43	345.51	347.03	346.79	347.35	0.003859	2.51	0.59	0.45	10.10	9.24	0.69
T.MASS_02	750	Max WS	UF_TR30_D2	25.17	345.51	347.09	346.84	347.42	0.003864	2.58	0.64	0.47	10.61	9.24	0.70
T.MASS_02	750	Max WS	UF_TR30_D3	22.53	345.51	347.00	346.76	347.31	0.003864	2.48	0.57	0.43	9.82	9.24	0.69
T.MASS_02	750	Max WS	UF_TR30_D4	20.03	345.51	346.91	346.67	347.20	0.003911	2.38	0.48	0.39	8.99	9.24	0.69
T.MASS_02	749.50														
T.MASS_02	749	Max WS	UF_TR30_D1	23.43	345.51	346.64	346.78	347.31	0.012596	3.62	0.02	0.28	6.52	7.36	1.18
T.MASS_02	749	Max WS	UF_TR30_D2	25.17	345.51	346.69	346.83	347.39	0.012533	3.71	0.24	0.37	6.90	9.24	1.19
T.MASS_02	749	Max WS	UF_TR30_D3	22.53	345.51	346.62	346.75	347.27	0.012577	3.56	0.02	0.23	6.36	7.36	1.18
T.MASS_02	749	Max WS	UF_TR30_D4	20.03	345.51	346.56	346.66	347.15	0.012678	3.40	0.02	0.02	5.89	6.78	1.17
T.MASS_02	740	Max WS	UF_TR30_D1	23.59	343.59	344.89	345.12	345.76	0.018997	4.20	1.42	1.30	6.04	7.53	1.34
T.MASS_02	740	Max WS	UF_TR30_D2	25.39	343.59	344.93	345.17	345.84	0.018915	4.32	1.48	1.40	6.37	7.59	1.35
T.MASS_02	740	Max WS	UF_TR30_D3	22.76	343.59	344.87	345.09	345.72	0.019040	4.15	1.39	1.25	5.88	7.50	1.34
T.MASS_02	740	Max WS	UF_TR30_D4	20.25	343.59	344.77	345.01	345.63	0.021815	4.14	1.34	1.02	5.17	7.38	1.41
T.MASS_03	738														
T.MASS_03	737.9														
T.MASS_03	730	Max WS	UF_TR30_D1	26.32	342.17	344.39	343.80	344.64	0.002578	2.45	1.12	1.14	13.72	9.24	0.54
T.MASS_03	730	Max WS	UF_TR30_D2	26.91	342.17	344.42	343.82	344.67	0.002582	2.47	1.13	1.14	13.94	9.29	0.54
T.MASS_03	730	Max WS	UF_TR30_D3	26.10	342.17	344.38	343.80	344.63	0.002593	2.45	1.12	1.14	13.60	9.20	0.54
T.MASS_03	730	Max WS	UF_TR30_D4	23.28	342.17	344.25	343.70	344.49	0.002621	2.36	1.07	1.10	12.45	8.88	0.54
T.MASS_03	725														
T.MASS_03	720	Max WS	UF_TR30_D1	26.32	342.17	343.91		344.40	0.006912	3.38	1.50	1.59	9.54	8.00	0.84
T.MASS_03	720	Max WS	UF_TR30_D2	29.80	342.17	344.01		344.55	0.007124	3.57	1.59	1.67	10.33	8.25	0.86
T.MASS_03	720	Max WS	UF_TR30_D3	26.10	342.17	343.91		344.39	0.006814	3.35	1.49	1.57	9.53	8.00	0.84
T.MASS_03	720	Max WS	UF_TR30_D4	23.28	342.17	343.82		344.27	0.006652	3.20	1.41	1.50	8.84	7.78	0.82
T.MASS_03	719.9														
T.MASS_03	719.67	Max WS	UF_TR30_D1	26.35	342.09	343.63	344.32	345.57	0.027331	6.88	1.56	3.09	5.13	4.87	1.81
T.MASS_03	719.67	Max WS	UF_TR30_D2	29.54	342.09	343.72	344.47	345.81	0.027282	7.16	1.63	3.21	5.59	5.04	1.83
T.MASS_03	719.67	Max WS	UF_TR30_D3	26.24	342.09	343.63	344.32	345.55	0.026919	6.83	1.55	3.07	5.15	4.88	1.80
T.MASS_03	719.67	Max WS	UF_TR30_D4	23.42	342.09	343.55	344.18	345.33	0.026885	6.56	1.49	2.96	4.73	4.72	1.78
T.MASS_03	719	Max WS	UF_TR30_D1	26.41	340.83	342.73	343.09	343.80	0.022171	4.59	0.71		5.82	5.10	1.23
T.MASS_03	719	Max WS	UF_TR30_D2	29.50	340.83	342.82	343.21	343.99	0.022728	4.80	0.95		6.31	5.68	1.25
T.MASS_03	719	Max WS	UF_TR30_D3	26.58	340.83	342.74	343.09	343.81	0.021866	4.58	0.73		5.89	5.18	1.23
T.MASS_03	719	Max WS	UF_TR30_D4	23.74	340.83	342.65	342.90	343.63	0.021423	4.38	0.45		5.44	4.59	1.21
T.MASS_03	718	Max WS	UF_TR30_D1	26.43	340.12	342.13	342.18	342.77	0.009997	3.75	1.49	1.49	8.39	7.95	0.90
T.MASS_03	718	Max WS	UF_TR30_D2	28.95	340.12	342.22	342.27	342.88	0.009773	3.83	1.57	1.57	9.11	8.27	0.90
T.MASS_03	718	Max WS	UF_TR30_D3	26.63	340.12	342.16	342.19	342.78	0.009441	3.68	1.48	1.48	8.64	8.06	0.88
T.MASS_03	718	Max WS	UF_TR30_D4	23.79	340.12	342.07	342.09	342.65	0.009359	3.54	1.37	1.37	7.91	7.72	0.87
T.MASS_03	715	Max WS	UF_TR30_D1	25.90	339.50	341.55	341.85	342.52	0.023621	4.73	2.13	2.13	6.72	7.62	1.10
T.MASS_03	715	Max WS	UF_TR30_D2	28.79	339.50	341.68	341.94	342.58	0.020804	4.64	2.25	2.25	7.74	8.11	1.04
T.MASS_03	715	Max WS	UF_TR30_D3	26.81	339.50	341.65	341.88	342.48	0.019244	4.42	2.11	2.11	7.50	7.99	1.00
T.MASS_03	715	Max WS	UF_TR30_D4	23.81	339.50	341.57	341.78	342.36	0.019105	4.28	1.95	1.95	6.85	7.68	0.99
T.MASS_VALLE	710	Max WS	UF_TR30_D1	58.77	339.33	341.32		341.60	0.010609	2.38	0.46		24.88	20.46	0.67
T.MASS_VALLE	710	Max WS	UF_TR30_D2	65.93	339.33	341.46		341.75	0.009532	2.39	0.62		27.79	20.72	0.65
T.MASS_VALLE	710	Max WS	UF_TR30_D3	65.98	339.33	341.46		341.75	0.009554	2.39	0.62		27.79	20.72	0.65
T.MASS_VALLE	710	Max WS	UF_TR30_D4	61.54	339.33	341.37		341.66	0.010168	2.38	0.53		26.01	20.56	0.66
T.MASS_VALLE	709.99														
T.MASS_VALLE	709.9														
T.MASS_VALLE	700	Max WS	UF_TR30_D1	58.37	336.48	339.03		339.45	0.011923	2.88			20.30	11.92	0.70
T.MASS_VALLE	700	Max WS	UF_TR30_D2	66.48	336.48	339.19		339.65	0.011990	2.98			22.28	12.37	0.71
T.MASS_VALLE	700	Max WS	UF_TR30_D3	66.62	336.48	339.20		339.65	0.011965	2.98			22.33	12.38	0.71
T.MASS_VALLE	700	Max WS	UF_TR30_D4	61.93	336.48	339.11		339.54	0.011905	2.92			21.21	12.13	0.71
T.MASS_VALLE	690	Max WS	UF_TR30_D1	58.50	334.										

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

F GRANDE

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

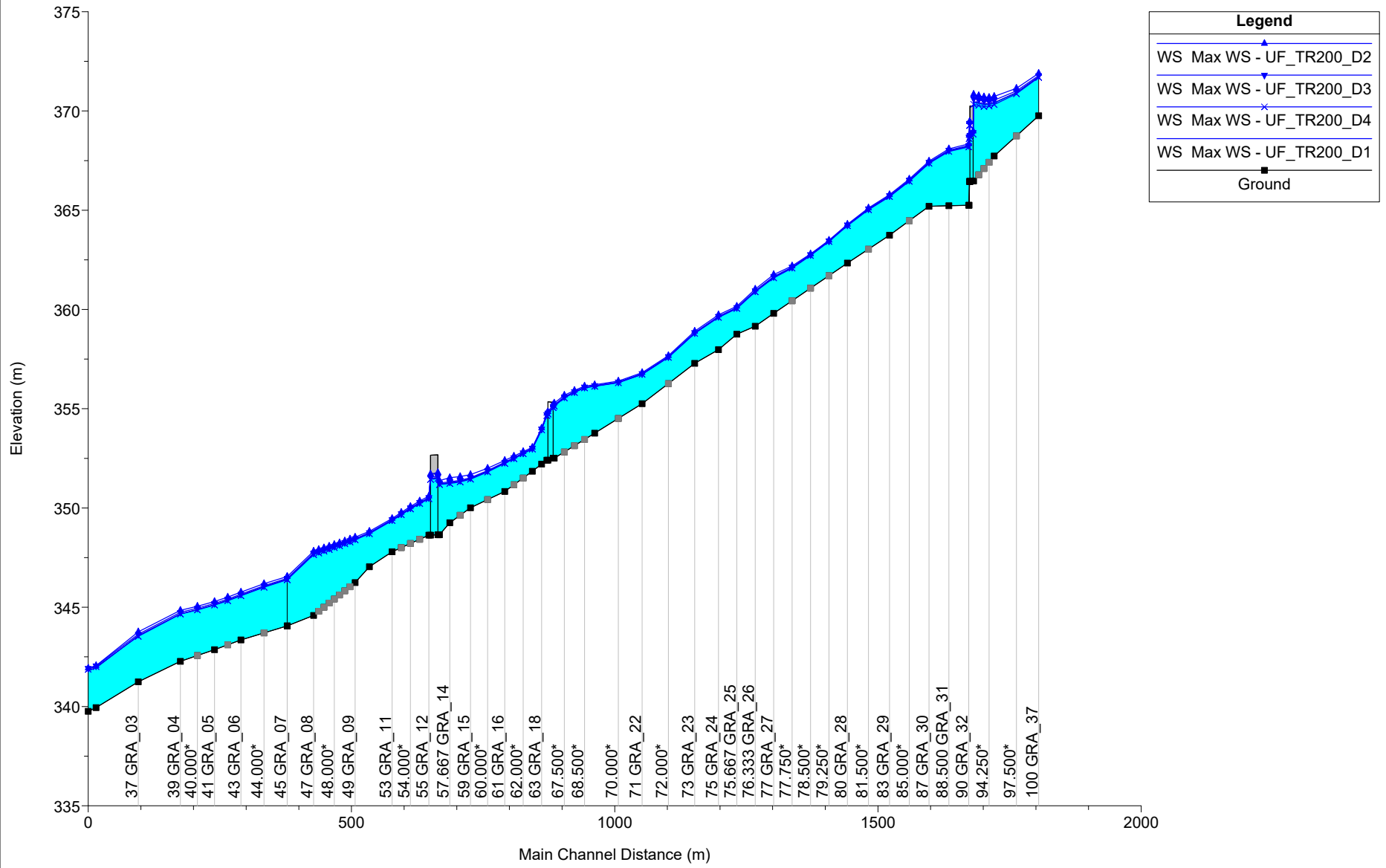
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

F GRANDE

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

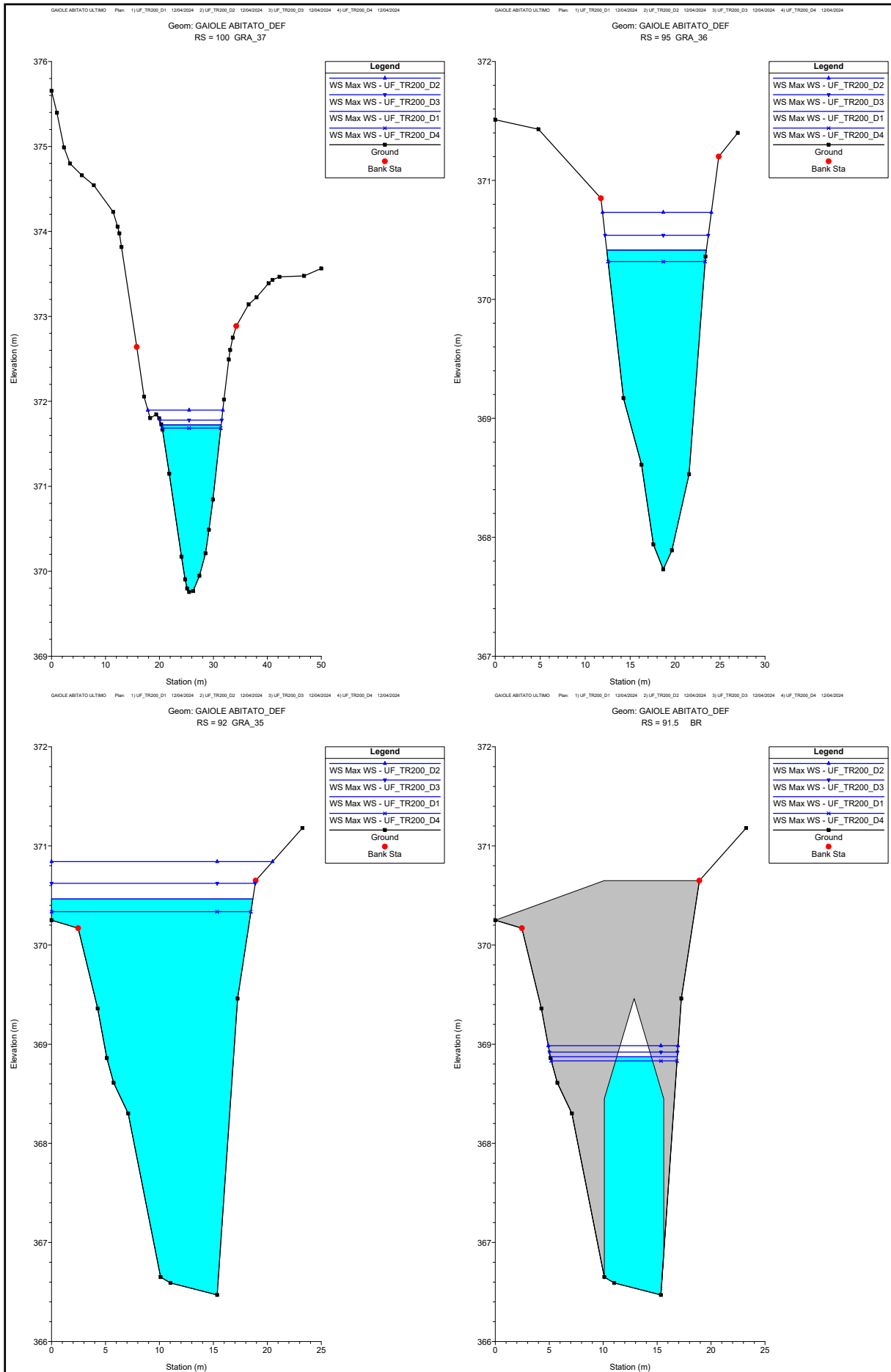
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

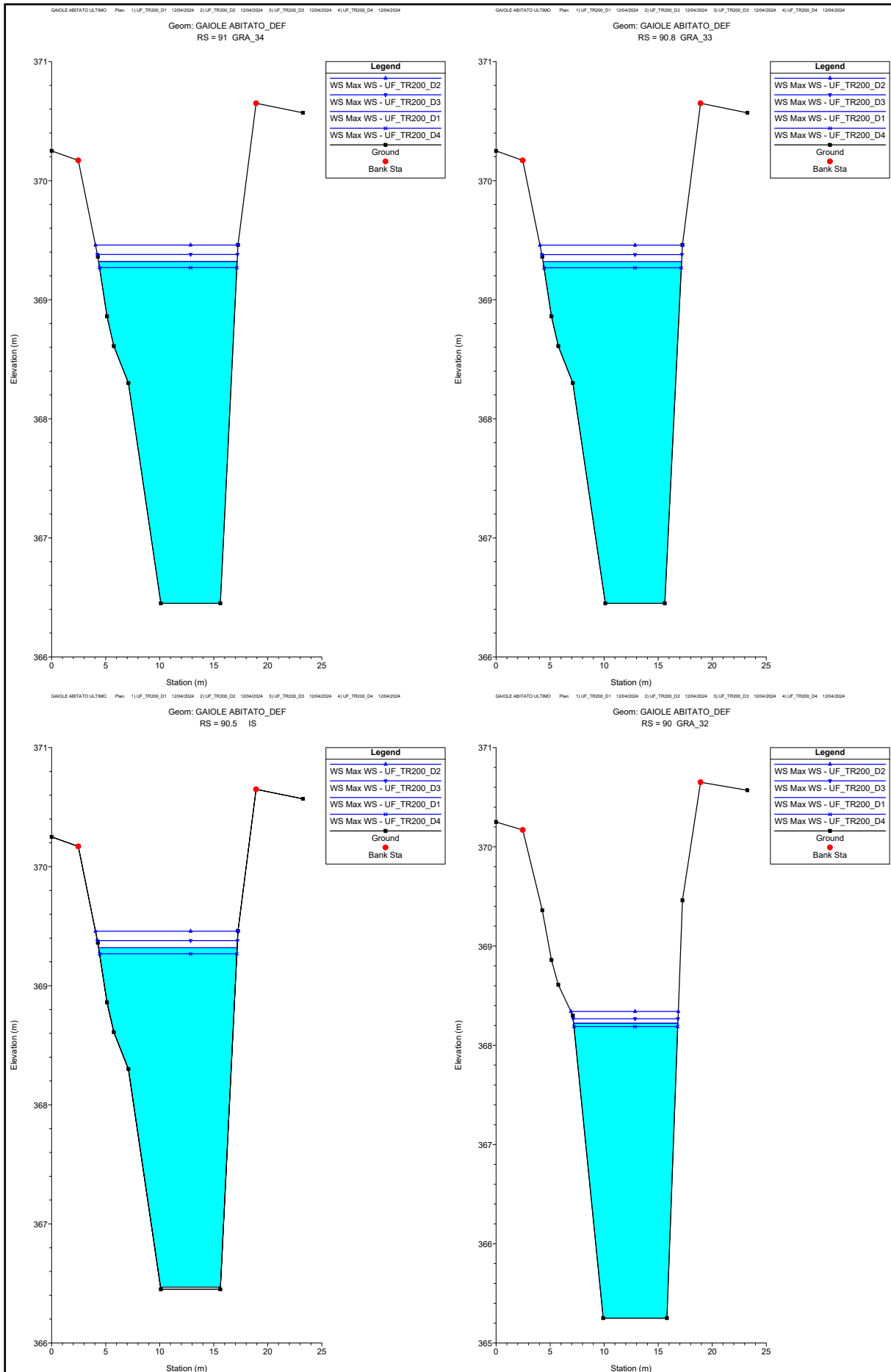
F GRANDE

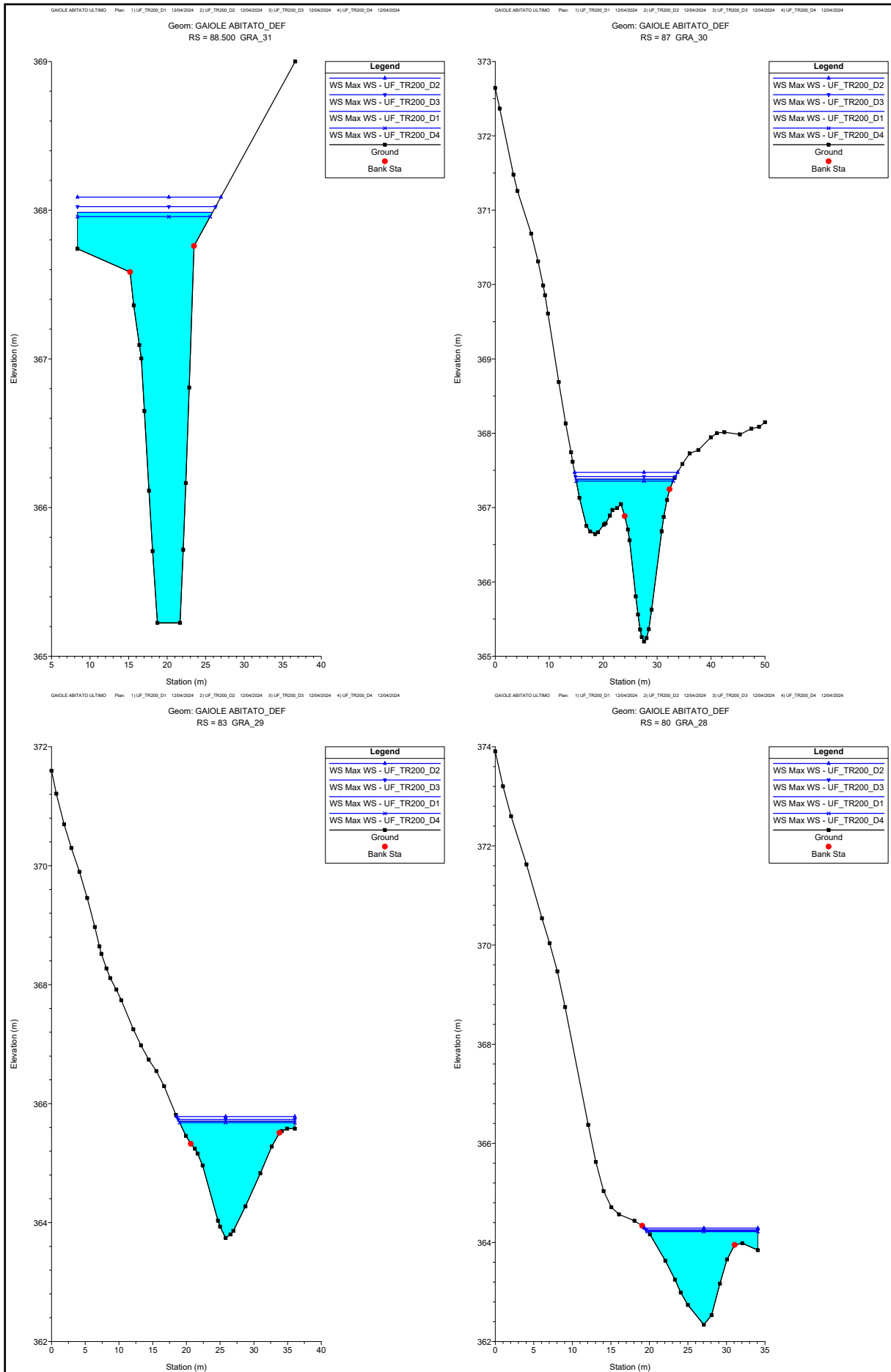
MODELLAZIONE PER TR= 200 anni

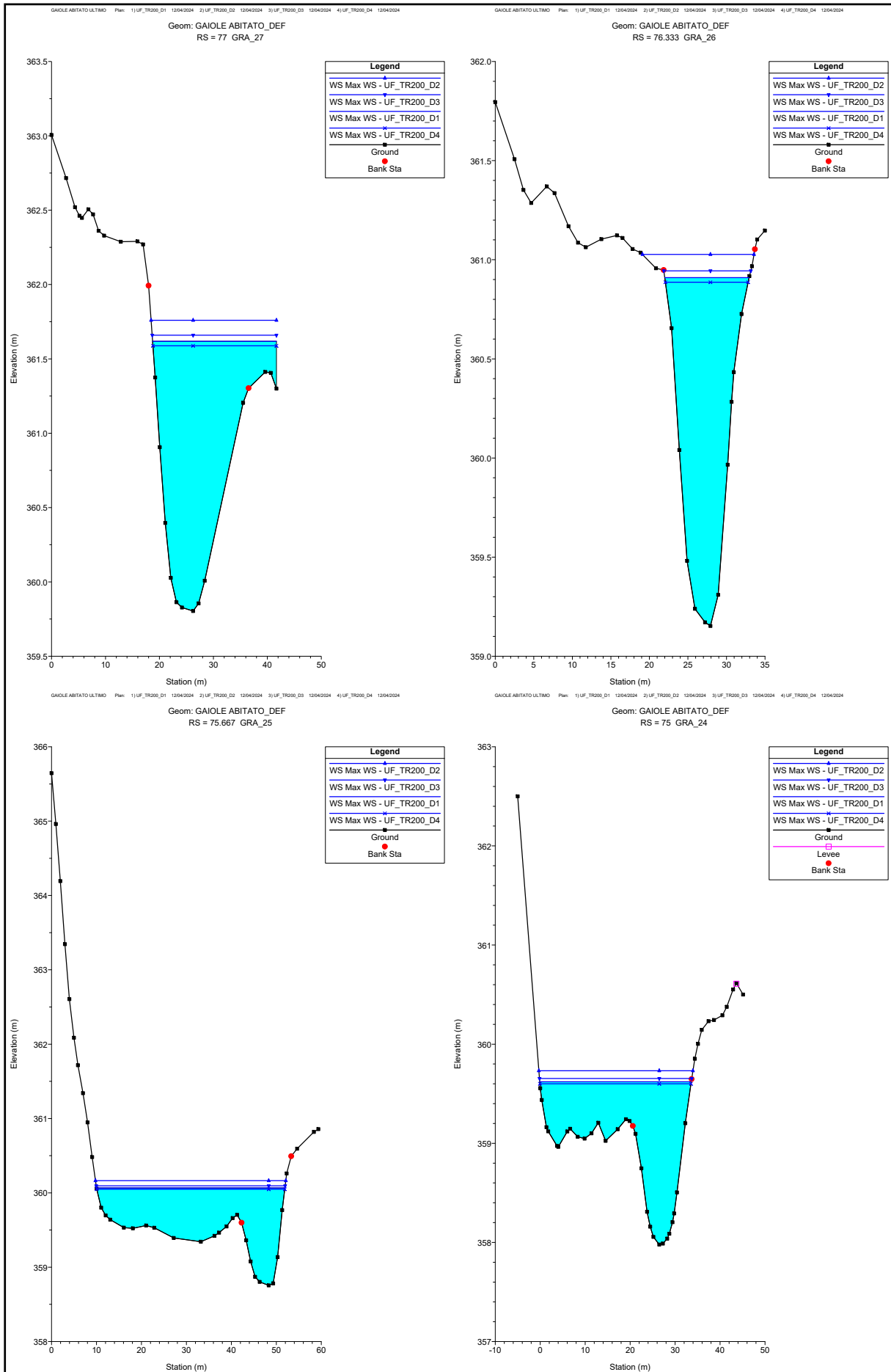
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

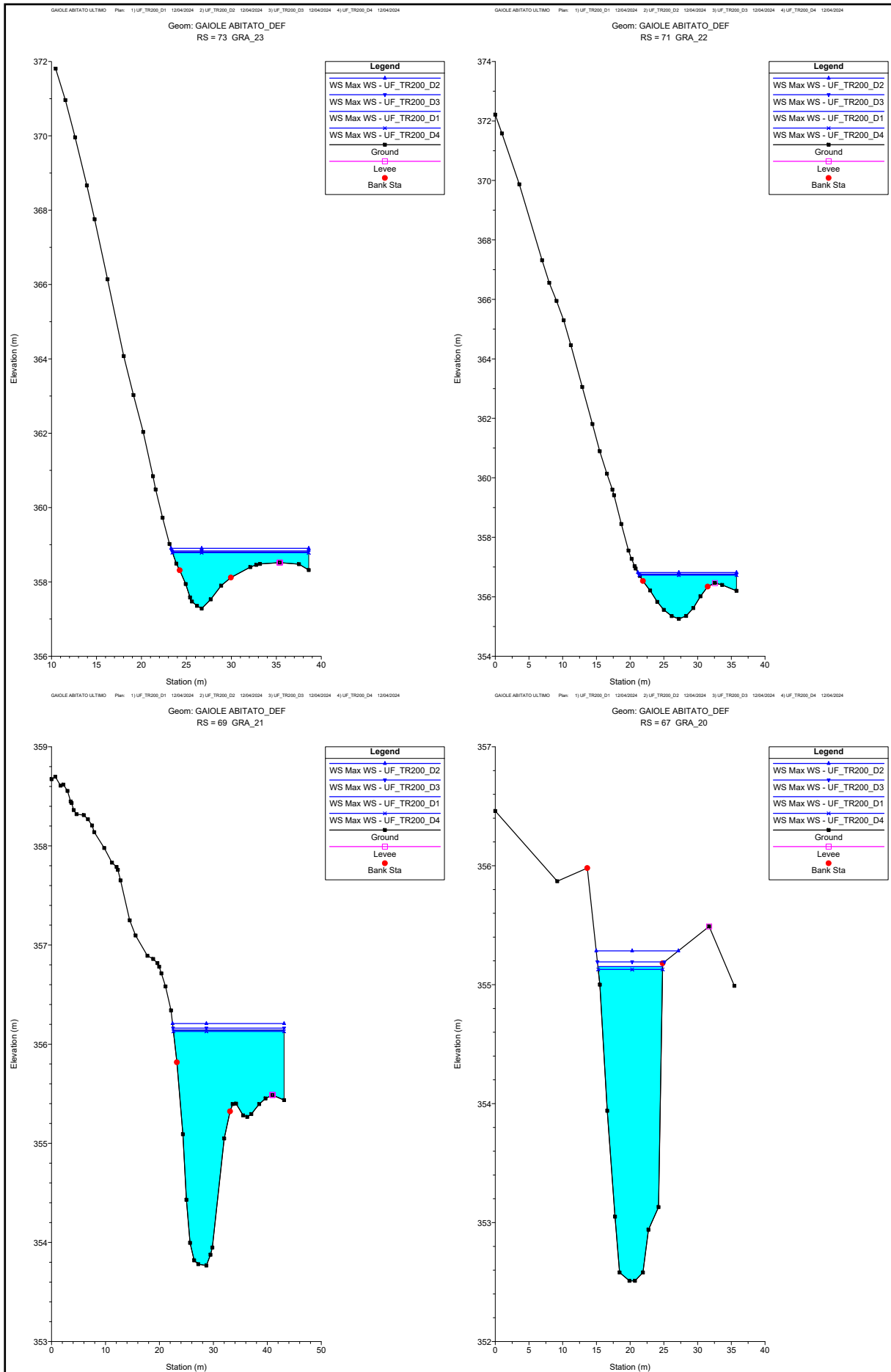
Sezioni Trasversali (da monte verso valle)

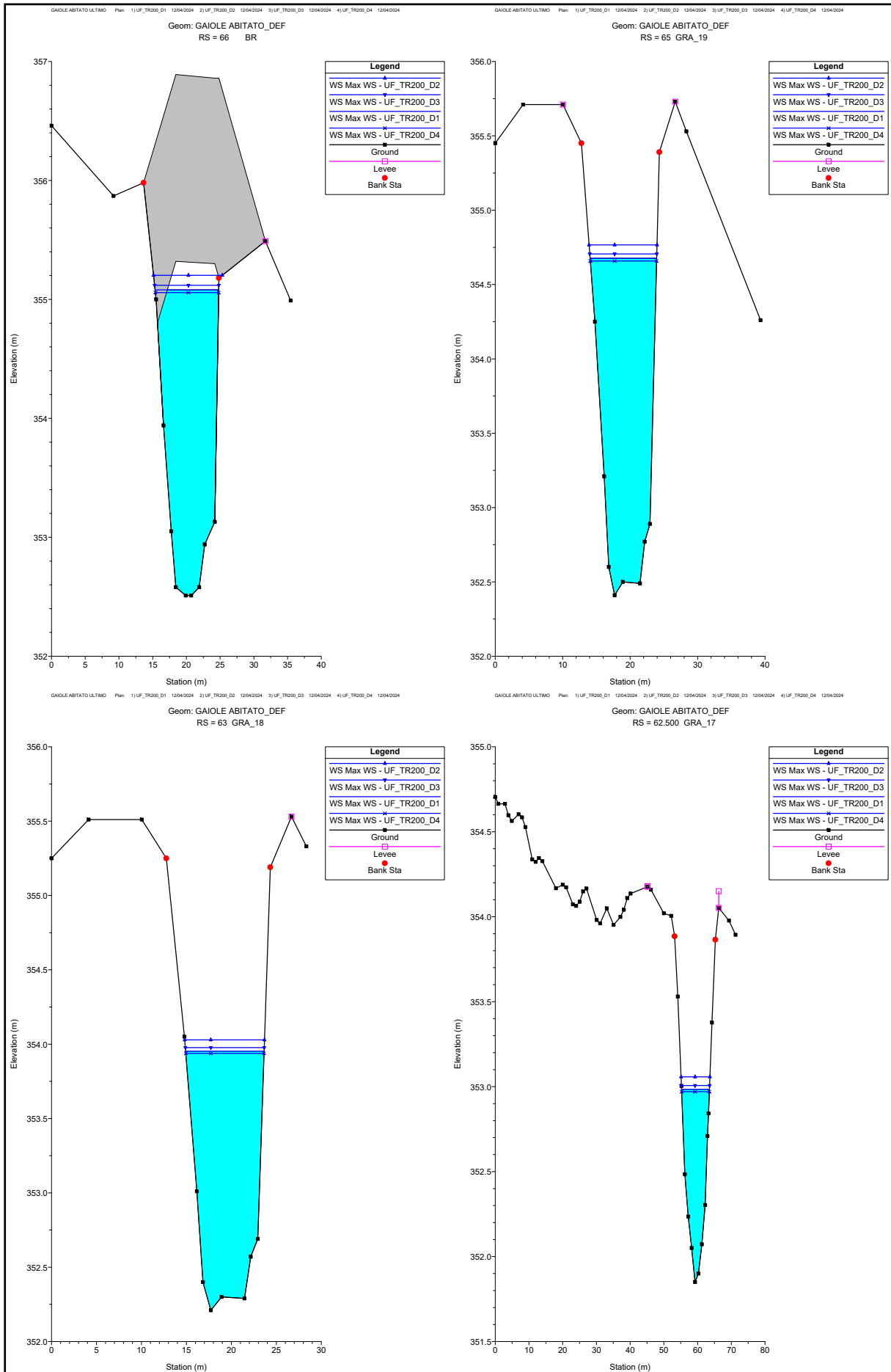


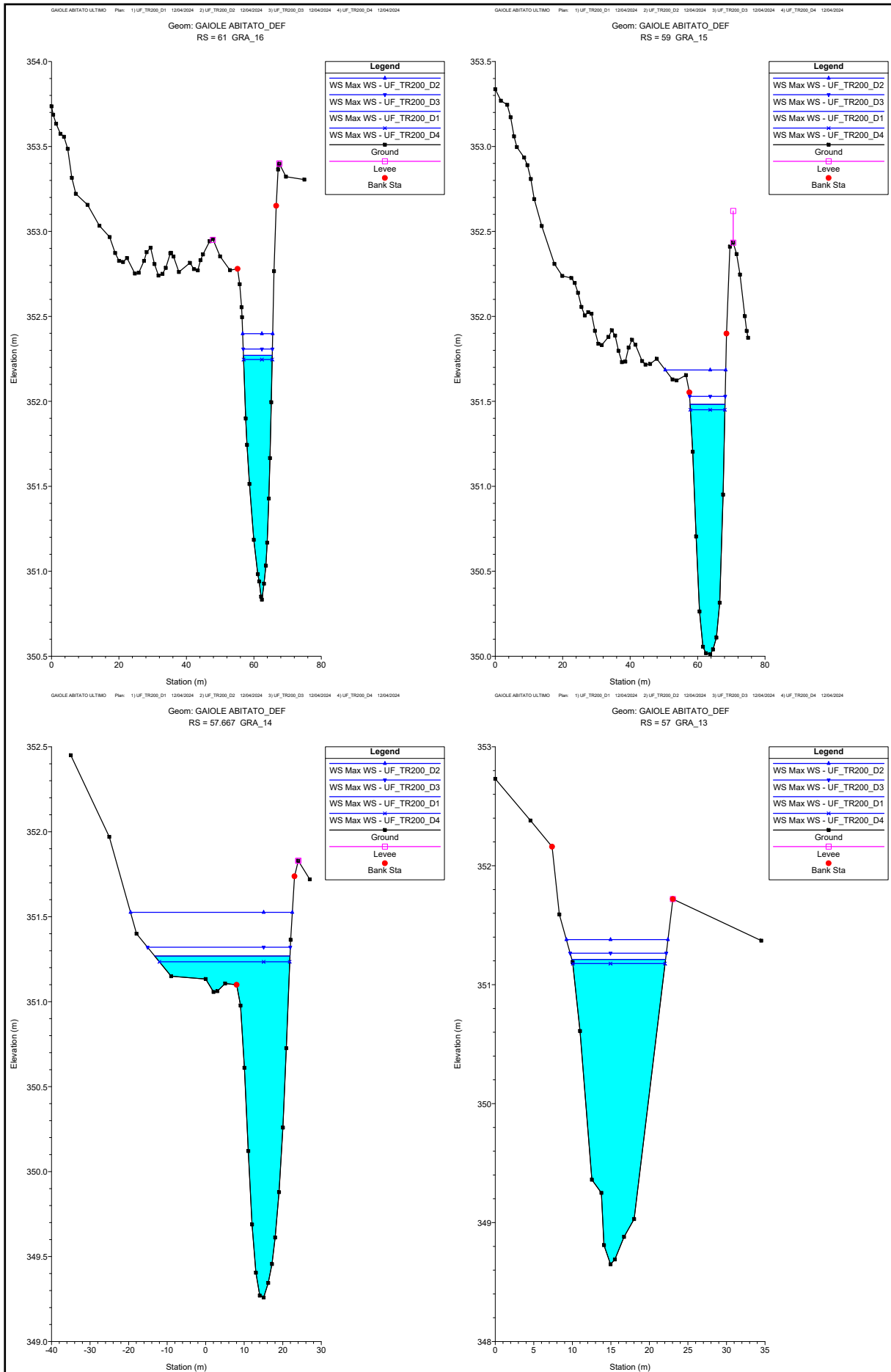


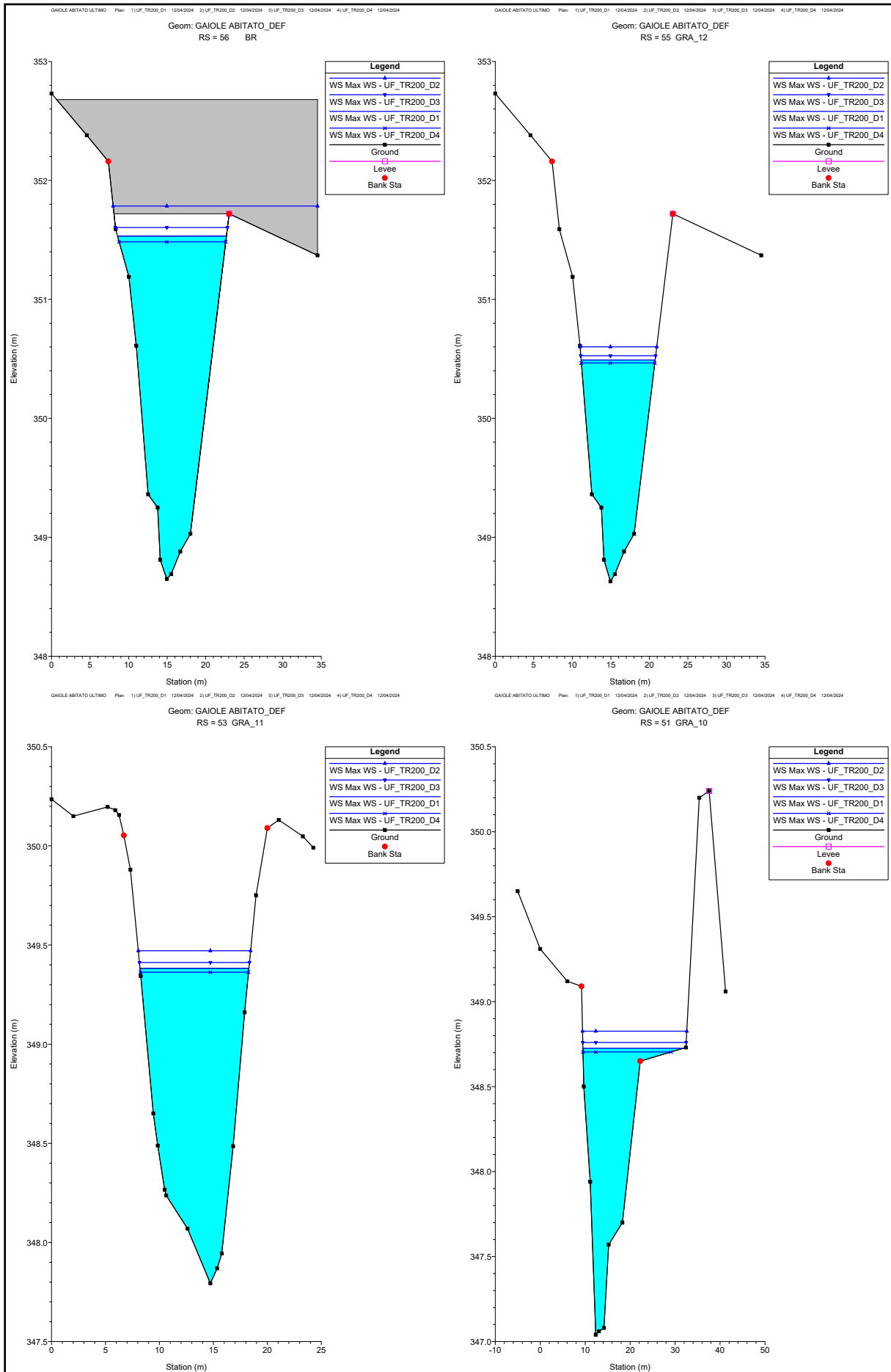


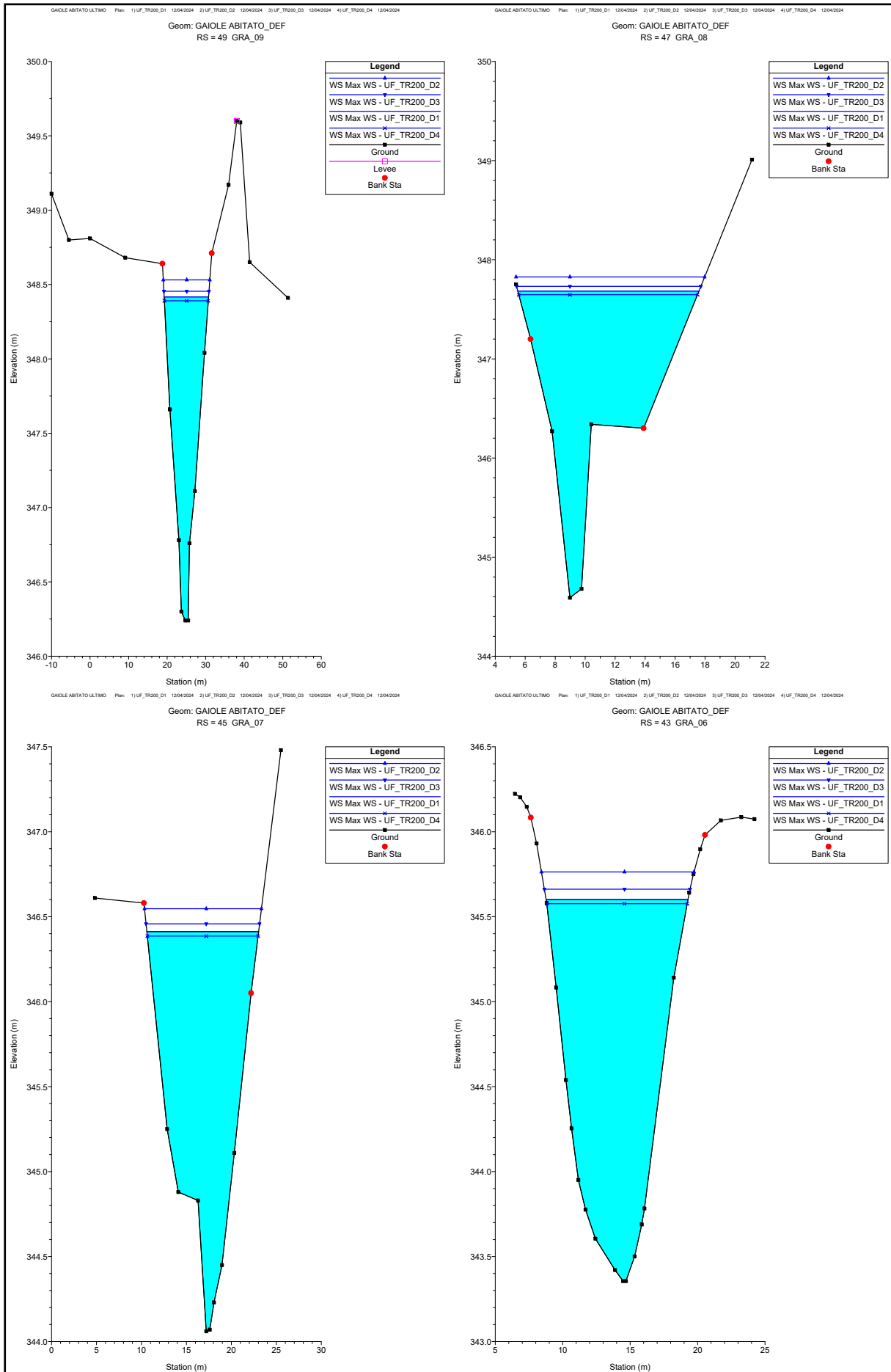


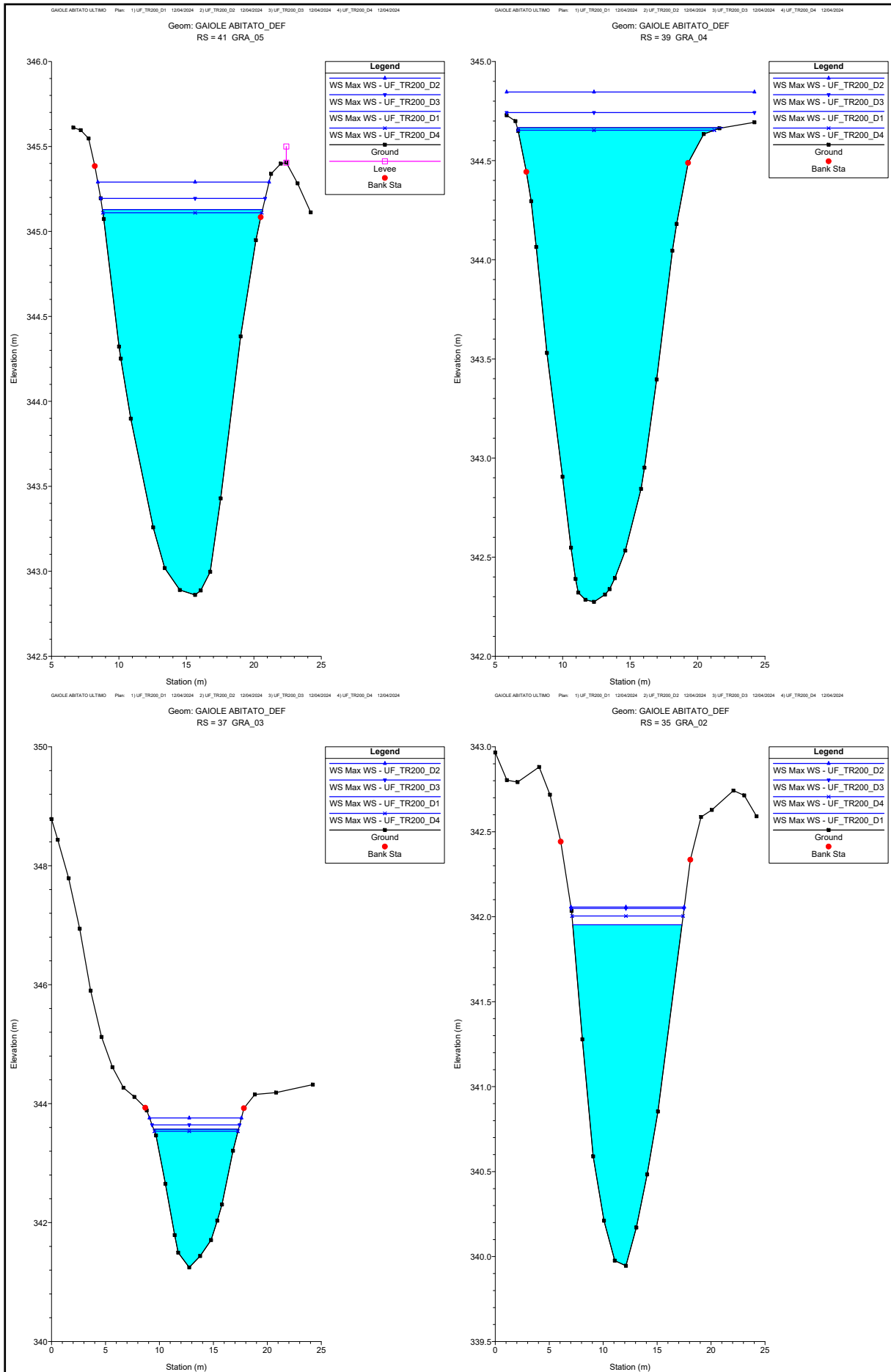




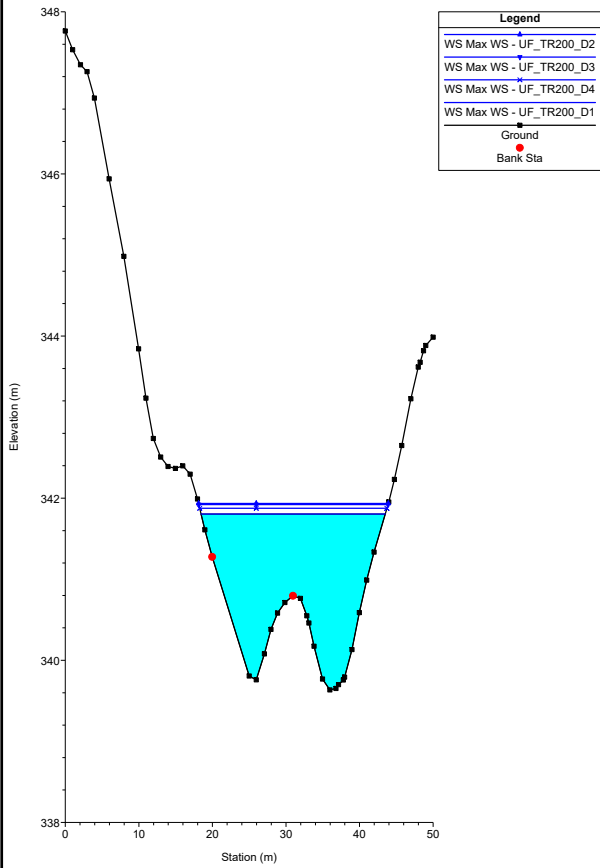








Geom: GAIOLE ABITATO_DEF
RS = 1 GRA_01



ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

F GRANDE

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS 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
F Grande	100	Max WS	UF_TR200_D1	68.75	369.76	371.72	372.18	373.11	0.021334	5.22			13.18	11.09	1.53
F Grande	100	Max WS	UF_TR200_D2	78.42	369.76	371.90	372.30	373.23	0.022355	5.11			15.34	13.90	1.55
F Grande	100	Max WS	UF_TR200_D3	72.37	369.76	371.78	372.23	373.18	0.021130	5.24			13.82	11.49	1.52
F Grande	100	Max WS	UF_TR200_D4	66.13	369.76	371.69	372.14	373.05	0.021402	5.18			12.77	10.89	1.53
F Grande	95	Max WS	UF_TR200_D1	68.72	367.73	370.41		371.13	0.007621	3.74			18.37	11.08	0.93
F Grande	95	Max WS	UF_TR200_D2	78.38	367.73	370.73		371.38	0.006100	3.56			22.04	12.11	0.84
F Grande	95	Max WS	UF_TR200_D3	72.35	367.73	370.54		371.22	0.006943	3.66			19.77	11.48	0.89
F Grande	95	Max WS	UF_TR200_D4	66.13	367.73	370.32	370.26	371.06	0.008300	3.82			17.30	10.79	0.96
F Grande	94.99		Lat Struct												
F Grande	92	Max WS	UF_TR200_D1	68.44	366.47	370.46	368.76	370.60	0.000881	1.66	0.23		41.80	18.66	0.33
F Grande	92	Max WS	UF_TR200_D2	75.13	366.47	370.84	368.88	370.97	0.000675	1.58	0.33	0.11	49.05	20.48	0.30
F Grande	92	Max WS	UF_TR200_D3	71.30	366.47	370.62	368.81	370.76	0.000794	1.62	0.28		44.75	18.88	0.32
F Grande	92	Max WS	UF_TR200_D4	66.10	366.47	370.34	368.72	370.48	0.000964	1.69	0.15		39.42	18.48	0.35
F Grande	91.5		Bridge												
F Grande	91	Max WS	UF_TR200_D1	68.44	366.45	369.32		369.89	0.003235	2.68			25.58	12.82	0.60
F Grande	91	Max WS	UF_TR200_D2	75.13	366.45	369.46		369.84	0.003237	2.74			27.38	13.18	0.61
F Grande	91	Max WS	UF_TR200_D3	71.30	366.45	369.38		369.75	0.003234	2.71			26.35	12.96	0.61
F Grande	91	Max WS	UF_TR200_D4	66.10	366.45	369.27		369.63	0.003241	2.65			24.93	12.70	0.60
F Grande	90.8	Max WS	UF_TR200_D1	68.44	366.45	369.32	368.64	369.68	0.003239	2.68			25.57	12.82	0.61
F Grande	90.8	Max WS	UF_TR200_D2	75.13	366.45	369.46	368.76	369.84	0.003241	2.74			27.37	13.18	0.61
F Grande	90.8	Max WS	UF_TR200_D3	71.30	366.45	369.38	368.69	369.75	0.003237	2.71			26.34	12.96	0.61
F Grande	90.8	Max WS	UF_TR200_D4	66.10	366.45	369.27	368.60	369.63	0.003245	2.65			24.92	12.70	0.60
F Grande	90.5		Int Struct												
F Grande	90	Max WS	UF_TR200_D1	68.44	365.25	368.22		368.67	0.003701	2.96			23.10	9.65	0.61
F Grande	90	Max WS	UF_TR200_D2	75.13	365.25	368.34		368.83	0.003946	3.10			24.26	9.94	0.63
F Grande	90	Max WS	UF_TR200_D3	71.30	365.25	368.27		368.73	0.003816	3.03			23.53	9.70	0.62
F Grande	90	Max WS	UF_TR200_D4	66.10	365.25	368.19		368.62	0.003587	2.90			22.78	9.60	0.60
F Grande	88.500	Max WS	UF_TR200_D1	68.57	365.22	367.99	368.12	368.85	0.008856	4.18	0.87	0.44	18.41	17.52	0.96
F Grande	88.500	Max WS	UF_TR200_D2	78.59	365.22	368.09	368.29	369.07	0.009490	4.48	1.07	0.58	20.27	18.61	1.00
F Grande	88.500	Max WS	UF_TR200_D3	72.15	365.22	368.02	368.18	368.93	0.009076	4.28	0.94	0.49	19.10	17.93	0.98
F Grande	88.500	Max WS	UF_TR200_D4	66.03	365.22	367.96	368.07	368.79	0.008690	4.10	0.81	0.40	17.93	17.22	0.95
F Grande	87	Max WS	UF_TR200_D1	68.71	365.20	367.38	367.84	368.80	0.023176	5.60	1.93	0.50	15.35	18.20	1.58
F Grande	87	Max WS	UF_TR200_D2	78.69	365.20	367.47	367.94	369.00	0.023239	5.87	2.11	0.68	17.04	19.10	1.60
F Grande	87	Max WS	UF_TR200_D3	72.33	365.20	367.42	367.88	368.87	0.023188	5.70	2.00	0.58	15.97	18.52	1.59
F Grande	87	Max WS	UF_TR200_D4	66.13	365.20	367.36	367.81	368.75	0.023217	5.53	1.87	0.44	14.89	17.97	1.57
F Grande	84.99		Lat Struct												
F Grande	83	Max WS	UF_TR200_D1	68.48	363.74	365.70	366.00	366.76	0.016568	4.56	0.87	0.67	15.58	17.19	1.37
F Grande	83	Max WS	UF_TR200_D2	78.03	363.74	365.78	366.11	366.96	0.016986	4.83	1.00	0.90	16.97	17.52	1.40
F Grande	83	Max WS	UF_TR200_D3	72.04	363.74	365.74	366.04	366.83	0.016696	4.66	0.92	0.76	16.12	17.32	1.38
F Grande	83	Max WS	UF_TR200_D4	65.93	363.74	365.68	365.96	366.70	0.016478	4.49	0.84	0.60	15.19	17.09	1.36
F Grande	80	Max WS	UF_TR200_D1	61.36	362.34	364.24	364.64	365.54	0.023955	5.10		1.29	12.72	14.42	1.60
F Grande	80	Max WS	UF_TR200_D2	66.85	362.34	364.29	364.72	365.67	0.024598	5.25		1.44	13.50	14.73	1.63
F Grande	80	Max WS	UF_TR200_D3	63.50	362.34	364.26	364.67	365.59	0.024207	5.16		1.35	13.03	14.54	1.61
F Grande	80	Max WS	UF_TR200_D4	59.77	362.34	364.22	364.62	365.50	0.023773	5.05		1.24	12.48	14.33	1.59
F Grande	77	Max WS	UF_TR200_D1	67.02	359.80	361.62	361.57	362.10	0.006906	3.08		0.63	22.76	22.94	0.90
F Grande	77	Max WS	UF_TR200_D2	78.54	359.80	361.76	361.69	362.27	0.006563	3.20		0.82	26.04	23.22	0.89
F Grande	77	Max WS	UF_TR200_D3	70.08	359.80	361.66	361.60	362.14	0.006756	3.11		0.69	23.72	23.02	0.89
F Grande	77	Max WS	UF_TR200_D4	64.83	359.80	361.59	361.54	362.06	0.007012	3.06		0.59	22.09	22.88	0.90
F Grande	76.333	Max WS	UF_TR200_D1	65.61	359.15	360.91	361.54	362.69	0.033577	5.91			11.11	10.93	1.87
F Grande	76.333	Max WS	UF_TR200_D2	78.18	359.15	361.03	361.67	363.03	0.035559	6.28	0.51		12.58	14.48	1.94
F Grande	76.333	Max WS	UF_TR200_D3	69.15	359.15	360.94	361.58	362.79	0.034634	6.02			11.49	11.28	1.90
F Grande	76.333	Max WS	UF_TR200_D4	63.56	359.15	360.89	361.51	362.63	0.033193	5.85			10.86	10.73	1.86
F Grande	75.667	Max WS	UF_TR200_D1	65.56	358.76	360.07	360.18	360.55	0.014610	3.88	1.62		27.25	41.90	1.25
F Grande	75.667	Max WS	UF_TR200_D2	78.59	358.76	360.16	360.28	360.67	0.014073	3.99	1.77		31.35	42.33	1.24
F Grande	75.667	Max WS	UF_TR200_D3	69.27	358.76	360.09	360.20	360.59	0.014448	3.91	1.67		28.44	42.03	1.25
F Grande	75.667	Max WS	UF_TR200_D4	63.39	358.76	360.05	360.17	360.53	0.014742	3.86	1.60		26.53	41.81	1.25
F Grande	75.66		Lat Struct												
F Grande	75	Max WS	UF_TR200_D1	65.57	357.98	359.62	359.74	360.18	0.010905	3.64	1.30		24.60	33.70	1.11
F Grande	75	Max WS	UF_TR200_D2	78.53	357.98	359.73	359.85	360.32	0.010569	3.81	1.46	0.24	28.41	34.27	1.11
F Grande	75	Max WS	UF_TR200_D3	69.30	357.98	359.65	359.77	360.22	0.010850	3.69	1.36	0.04	25.73	33.86	1.11
F Grande	75	Max WS	UF_TR200_D4	63.34	357.98	359.60	359.72	360.15	0.010933	3.61	1.27		23.92	33.60	1.11
F Grande	73	Max WS	UF_TR200_D1	39.91	357.28	358.81	359.20	360.11	0.025077	5.42	1.19	1.62	9.88	15.18	1.65
F Grande	73	Max WS	UF_TR200_D2	48.41	357.28	358.90	359.34	360.37	0.025876	5.83	1.35	1.89	11.37	15.32	1.69
F Grande	73	Max WS	UF_TR200_D3	42.40	357.28	358.83	359.25	360.19	0.025390	5.55	1.24	1.70	10.32	15.22	1.66
F Grande	73	Max WS	UF_TR200_D4	38.46	357.28	358.79	359.18	360.07	0.024913	5.35	1.16	1.56	9.61	15.15	1.64
F Grande	71	Max WS	UF_TR200_D1	36.38	355.26	356.74	356.86	357.36	0.011890	3.57	0.47	1.06	11.39	14.44	1.14
F Grande	71	Max WS	UF_TR200_D2	41.37	355.26	356.82	356.95	357.50	0.011926	3.75	0.58	1.18	12.46	14.62	1.15
F Grande	71	Max WS	UF_TR200_D3	37.83	355.26	356.76	356.89	357.40	0.011870	3.62	0.50	1.10	11.72	14.50	1.14
F Grande	71	Max WS	UF_TR200_D4	35.46	355.26	356.73	356.85	357.34	0.011891	3.54	0.45	1.04	11.18	14.41	1.13
F Grande	69	Max WS	UF_TR200_D1	28.47	353.77	356.14		356.23	0.000997	1.44	0.18	0.50	24.84	20.52	0.35
F Grande	69	Max WS	UF_TR200_D2	31.47	353.77	356.21		356.31	0.001053	1.51	0.20	0.54	26.22	20.66	0.36
F Grande	69	Max WS	UF_TR200_D3	29.39	353.77	356.16		356.26	0.001016	1.46	0.18	0.51	25.26	20.57	0.35
F Grande	69	Max WS	UF_TR200_D4	27.91	353.77	356.13		356.22	0.000986	1.42	0.17	0.49	24.59	20.50	0.34
F Grande	67	Max WS	UF_TR200_D1	16.13	352.51	355.15	353.57	355.19	0.024475	0.85			19.06	9.60	0.19
F Grande	67	Max WS	UF_TR200_D2	17.57	352.51	355.28	353.62	355.32	0.024131	0.86		0.09	20.47	12.18	0.19
F Grande	67	Max WS	UF_TR200_D3	16.59	352.51	355.19	353.59	355.23	0.024526	0.85		0.02	19.44	9.95	0.19
F Grande	67	Max WS	UF_TR200_D4	15.84	352.51	355.13	353.57	355.16	0.024385	0.84			18.83	9.55	0.19
F Grande	66		Bridge												
F Grande	65	Max WS	UF_TR200_D1	16.13	352.41	354.68		354.73	0.037479	0.98			16.54	9.87	0.24
F Grande	65	Max WS	UF_TR200_D2	17.57	352.41	354.77		354.82	0.038461	1.01			17.44	10.07	0.24
F Grande	65	Max WS	UF_TR200_D3	16.59	352.41	354.71		354.76	0.037804	0.99			16.83	9.93	0.24
F Grande	65	Max WS	UF_TR200_D4	15.84	352.41	354.66		354.71							

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
F_Grande	63	Max WS	UF_TR200_D3	16.59	352.21	353.98		354.08	0.098951	1.40			11.89	8.78	0.38
F_Grande	63	Max WS	UF_TR200_D4	15.84	352.21	353.94		354.03	0.098040	1.37			11.55	8.70	0.38
F_Grande	62.99		Lat Struct												
F_Grande	62.500	Max WS	UF_TR200_D1	17.87	351.85	352.98	353.03	353.42	0.012406	2.93			6.09	8.28	1.09
F_Grande	62.500	Max WS	UF_TR200_D2	19.68	351.85	353.06	353.10	353.50	0.011441	2.93			6.71	8.57	1.06
F_Grande	62.500	Max WS	UF_TR200_D3	18.44	351.85	353.01	353.06	353.45	0.012137	2.94			6.28	8.36	1.08
F_Grande	62.500	Max WS	UF_TR200_D4	17.51	351.85	352.97	353.03	353.41	0.012576	2.93			5.98	8.22	1.10
F_Grande	61	Max WS	UF_TR200_D1	27.23	350.83	352.27	352.35	352.86	0.012557	3.41			8.00	8.54	1.12
F_Grande	61	Max WS	UF_TR200_D2	31.79	350.83	352.40	352.46	353.02	0.011778	3.49			9.12	8.91	1.10
F_Grande	61	Max WS	UF_TR200_D3	28.63	350.83	352.31	352.39	352.91	0.012383	3.44			8.32	8.65	1.12
F_Grande	61	Max WS	UF_TR200_D4	26.36	350.83	352.25	352.33	352.83	0.012870	3.38			7.79	8.48	1.13
F_Grande	59	Max WS	UF_TR200_D1	33.68	350.01	351.48	351.44	351.96	0.008463	3.06			11.02	10.37	0.95
F_Grande	59	Max WS	UF_TR200_D2	39.93	350.01	351.68	351.58	352.15	0.006921	3.02	0.36		13.51	17.93	0.87
F_Grande	59	Max WS	UF_TR200_D3	35.60	350.01	351.53	351.49	352.02	0.008383	3.09			11.51	10.55	0.95
F_Grande	59	Max WS	UF_TR200_D4	32.44	350.01	351.45	351.41	351.92	0.008536	3.04			10.69	10.24	0.95
F_Grande	57.667	Max WS	UF_TR200_D1	42.89	349.26	351.27	350.90	351.53	0.002532	2.31	0.52		20.73	35.11	0.65
F_Grande	57.667	Max WS	UF_TR200_D2	50.14	349.26	351.53	351.70	351.70	0.001567	2.00	0.77		30.83	41.99	0.52
F_Grande	57.667	Max WS	UF_TR200_D3	45.13	349.26	351.32	351.58	351.58	0.002393	2.30	0.60		22.58	37.05	0.63
F_Grande	57.667	Max WS	UF_TR200_D4	41.39	349.26	351.23	350.88	351.50	0.002621	2.32	0.46		19.56	33.82	0.66
F_Grande	57	Max WS	UF_TR200_D1	54.31	348.65	351.21	350.84	351.62	0.003194	2.84			19.11	12.15	0.72
F_Grande	57	Max WS	UF_TR200_D2	62.15	348.65	351.38	350.99	351.82	0.003274	2.93			21.22	13.18	0.74
F_Grande	57	Max WS	UF_TR200_D3	56.75	348.65	351.26	350.88	351.69	0.003228	2.87			19.76	12.48	0.73
F_Grande	57	Max WS	UF_TR200_D4	52.68	348.65	351.18	350.80	351.58	0.003173	2.82			18.70	11.97	0.72
F_Grande	56		Bridge												
F_Grande	55	Max WS	UF_TR200_D1	54.31	348.63	350.49	350.83	351.67	0.013287	4.80			11.31	9.61	1.41
F_Grande	55	Max WS	UF_TR200_D2	62.15	348.63	350.60	350.99	351.88	0.013488	5.01			12.39	9.95	1.43
F_Grande	55	Max WS	UF_TR200_D3	56.75	348.63	350.53	350.89	351.74	0.013354	4.87			11.65	9.72	1.42
F_Grande	55	Max WS	UF_TR200_D4	52.68	348.63	350.47	350.80	351.62	0.013241	4.76			11.08	9.53	1.41
F_Grande	53	Max WS	UF_TR200_D1	54.29	347.79	349.38	349.80	350.73	0.016933	5.14			10.57	10.09	1.60
F_Grande	53	Max WS	UF_TR200_D2	62.11	347.79	349.47	349.96	350.96	0.017593	5.41			11.48	10.41	1.65
F_Grande	53	Max WS	UF_TR200_D3	56.73	347.79	349.41	349.85	350.80	0.017090	5.22			10.87	10.20	1.61
F_Grande	53	Max WS	UF_TR200_D4	52.66	347.79	349.36	349.77	350.68	0.016803	5.08			10.37	10.02	1.59
F_Grande	51	Max WS	UF_TR200_D1	54.29	347.04	348.73	349.06	349.71	0.013661	4.40		0.53	12.67	22.45	1.43
F_Grande	51	Max WS	UF_TR200_D2	62.10	347.04	348.83	349.15	349.81	0.012432	4.45		1.17	14.98	23.19	1.38
F_Grande	51	Max WS	UF_TR200_D3	56.71	347.04	348.76	349.08	349.74	0.013196	4.41		0.78	13.44	23.01	1.41
F_Grande	51	Max WS	UF_TR200_D4	52.66	347.04	348.70	349.03	349.68	0.013927	4.38		0.42	12.20	19.57	1.44
F_Grande	49	Max WS	UF_TR200_D1	54.29	346.24	348.42	348.59	349.25	0.009408	4.05			13.41	11.51	1.20
F_Grande	49	Max WS	UF_TR200_D2	62.10	346.24	348.53	348.95	349.43	0.009512	4.21			14.75	12.05	1.21
F_Grande	49	Max WS	UF_TR200_D3	56.71	346.24	348.45	348.64	349.31	0.009414	4.10			13.85	11.69	1.20
F_Grande	49	Max WS	UF_TR200_D4	52.66	346.24	348.39	348.56	349.21	0.009408	4.02			13.11	11.39	1.20
F_Grande	48.74		Lat Struct												
F_Grande	47	Max WS	UF_TR200_D1	54.28	344.59	347.68	347.68	348.35	0.008939	3.72	1.11	2.83	15.35	12.09	0.92
F_Grande	47	Max WS	UF_TR200_D2	61.55	344.59	347.83	347.82	348.52	0.008394	3.81	1.33	2.93	17.11	12.58	0.90
F_Grande	47	Max WS	UF_TR200_D3	56.70	344.59	347.73	347.73	348.40	0.008763	3.75	1.18	2.87	15.93	12.30	0.91
F_Grande	47	Max WS	UF_TR200_D4	52.65	344.59	347.65	347.65	348.31	0.009136	3.71	1.07	2.81	14.92	11.93	0.93
F_Grande_VALLE	45	Max WS	UF_TR200_D1	55.25	344.06	346.41	346.37	347.03	0.008090	3.48		1.09	15.97	12.44	0.95
F_Grande_VALLE	45	Max WS	UF_TR200_D2	62.91	344.06	346.55	346.49	347.20	0.007827	3.59		1.32	17.69	13.01	0.95
F_Grande_VALLE	45	Max WS	UF_TR200_D3	57.71	344.06	346.46	346.41	347.09	0.007973	3.52		1.17	16.55	12.63	0.95
F_Grande_VALLE	45	Max WS	UF_TR200_D4	53.65	344.06	346.39	346.35	346.99	0.008102	3.45		1.04	15.64	12.32	0.95
F_Grande_VALLE	44.99		Lat Struct												
F_Grande_VALLE	44.9		Lat Struct												
F_Grande_VALLE	43	Max WS	UF_TR200_D1	59.29	343.36	345.60	345.70	346.43	0.010682	4.03			14.72	10.52	1.09
F_Grande_VALLE	43	Max WS	UF_TR200_D2	68.39	343.36	345.76	345.88	346.64	0.010702	4.15			16.50	11.32	1.10
F_Grande_VALLE	43	Max WS	UF_TR200_D3	62.40	343.36	345.66	345.76	346.50	0.010602	4.06			15.38	10.80	1.09
F_Grande_VALLE	43	Max WS	UF_TR200_D4	57.69	343.36	345.58	345.67	346.39	0.010566	3.99			14.48	10.42	1.08
F_Grande_VALLE	41	Max WS	UF_TR200_D1	61.16	342.86	345.13	345.08	345.79	0.007987	3.60		0.14	17.00	11.87	0.96
F_Grande_VALLE	41	Max WS	UF_TR200_D2	71.29	342.86	345.29	345.25	346.01	0.007890	3.77		0.38	18.98	12.71	0.96
F_Grande_VALLE	41	Max WS	UF_TR200_D3	64.86	342.86	345.19	345.15	345.87	0.007853	3.65		0.25	17.79	12.19	0.95
F_Grande_VALLE	41	Max WS	UF_TR200_D4	59.68	342.86	345.11	345.06	345.76	0.007907	3.56		0.10	16.78	11.78	0.95
F_Grande_VALLE	39	Max WS	UF_TR200_D1	61.46	342.27	344.67	344.67	345.21	0.005809	3.26	0.33	0.22	19.07	15.22	0.83
F_Grande_VALLE	39	Max WS	UF_TR200_D2	71.88	342.27	344.85	344.65	345.43	0.005443	3.39	0.48	0.50	22.31	18.37	0.82
F_Grande_VALLE	39	Max WS	UF_TR200_D3	65.89	342.27	344.74	344.55	345.30	0.005670	3.32	0.32	0.32	20.41	18.37	0.83
F_Grande_VALLE	39	Max WS	UF_TR200_D4	60.22	342.27	344.65	344.65	345.18	0.005724	3.22	0.32	0.23	18.89	14.56	0.82
F_Grande_VALLE	37	Max WS	UF_TR200_D1	62.14	341.25	343.57	344.04	345.11	0.021280	5.50			11.30	7.86	1.47
F_Grande_VALLE	37	Max WS	UF_TR200_D2	73.79	341.25	343.76	344.37	345.44	0.021671	5.74			12.85	8.52	1.49
F_Grande_VALLE	37	Max WS	UF_TR200_D3	66.86	341.25	343.64	344.14	345.26	0.021728	5.63			11.87	8.12	1.49
F_Grande_VALLE	37	Max WS	UF_TR200_D4	61.22	341.25	343.54	344.03	345.11	0.021954	5.55			11.02	7.74	1.49
F_Grande_VALLE	35	Max WS	UF_TR200_D1	60.98	339.95	341.95	342.28	343.12	0.017013	4.78			12.75	10.12	1.36
F_Grande_VALLE	35	Max WS	UF_TR200_D2	71.03	339.95	342.06	342.45	343.40	0.018529	5.14			13.83	10.50	1.43
F_Grande_VALLE	35	Max WS	UF_TR200_D3	62.33	339.95	342.05	342.31	343.10	0.014509	4.54			13.74	10.46	1.26
F_Grande_VALLE	35	Max WS	UF_TR200_D4	59.71	339.95	342.00	342.26	343.03	0.014596	4.50			13.28	10.29	1.26
F_Grande_VALLE	1	Max WS	UF_TR200_D1	57.01	339.76	341.81	341.81	341.99	0.003008	2.23	0.44	1.32	32.91	25.04	0.

ALLEGATI

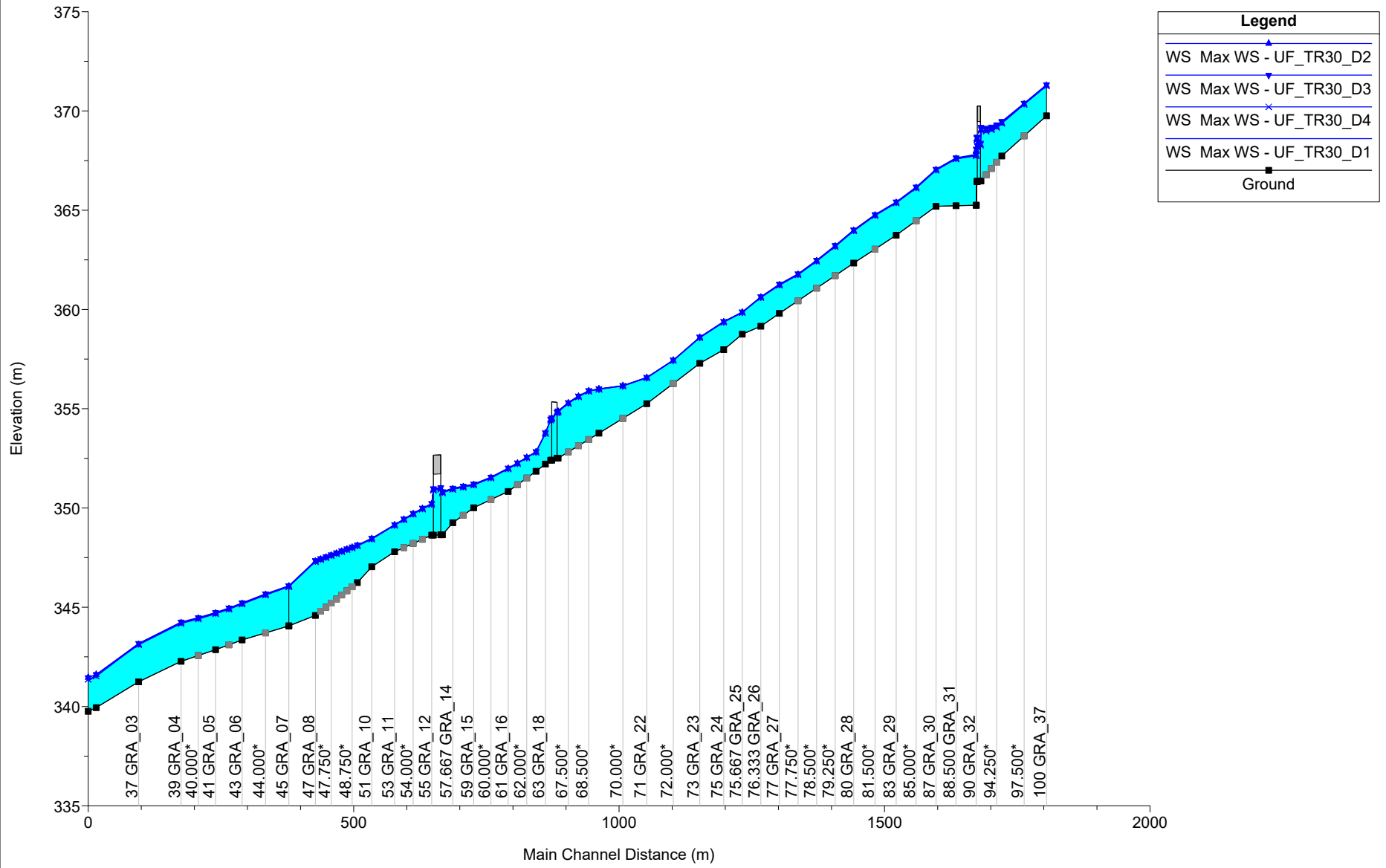
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

F GRANDE

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

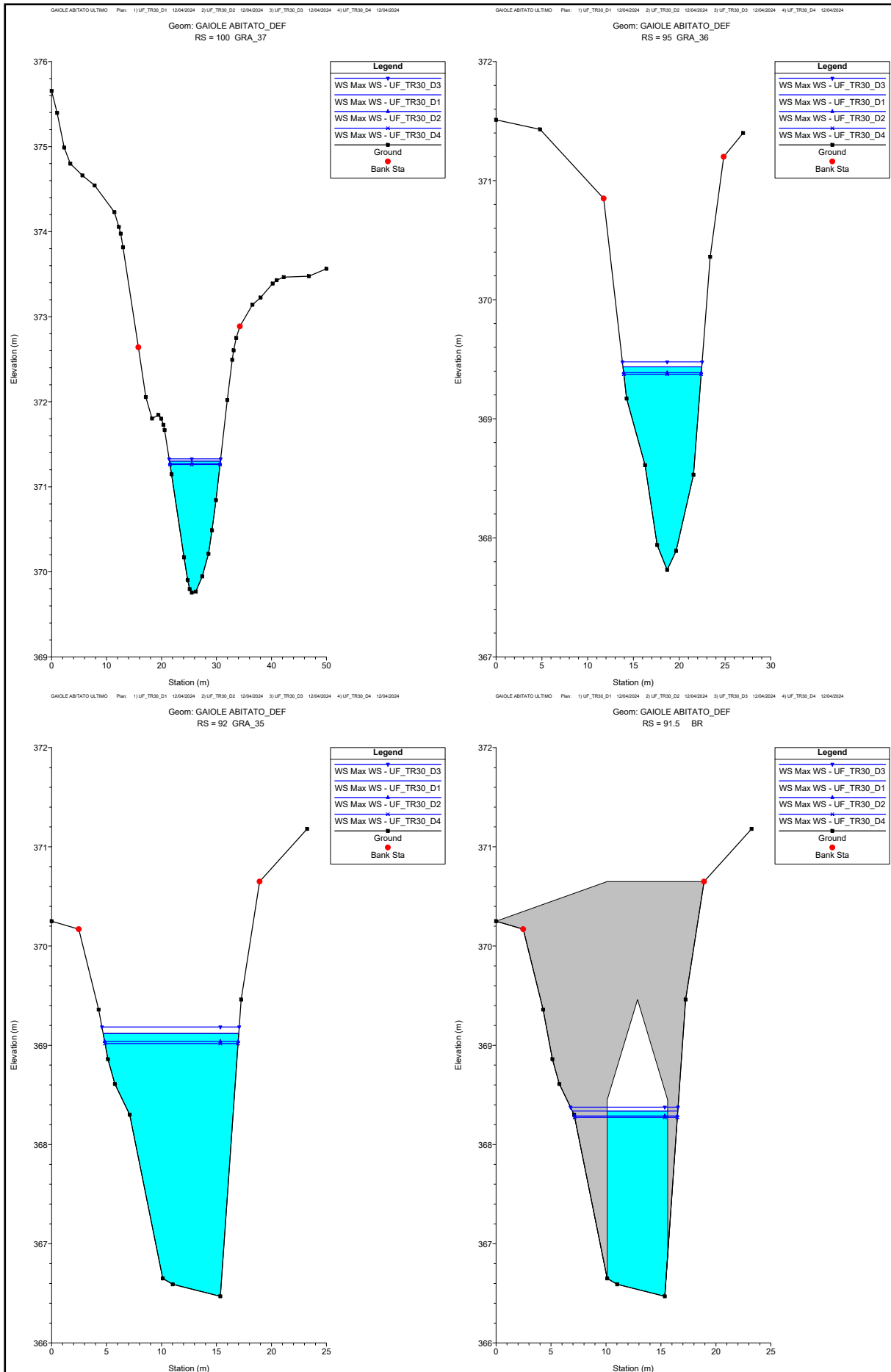
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

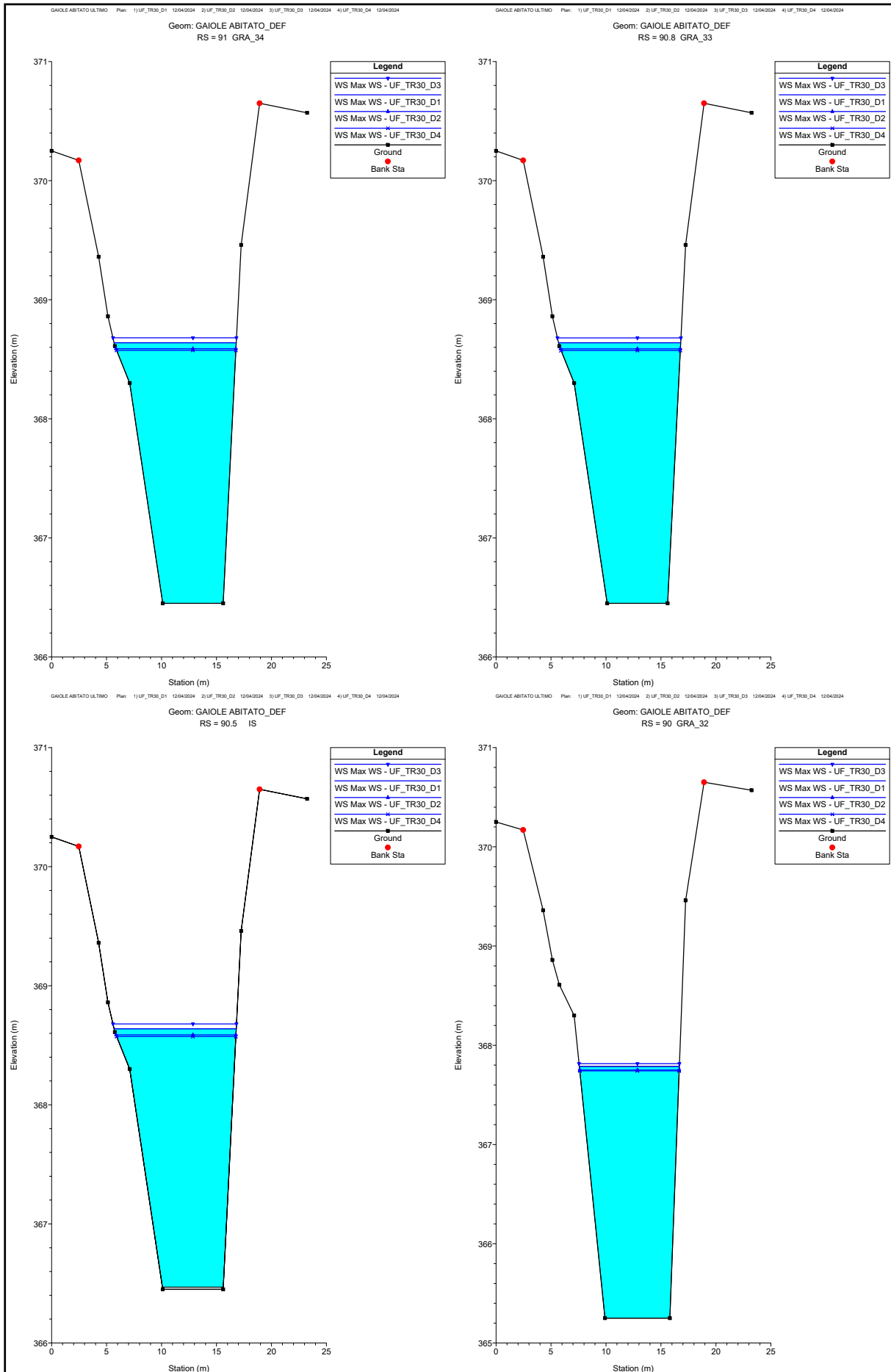
F GRANDE

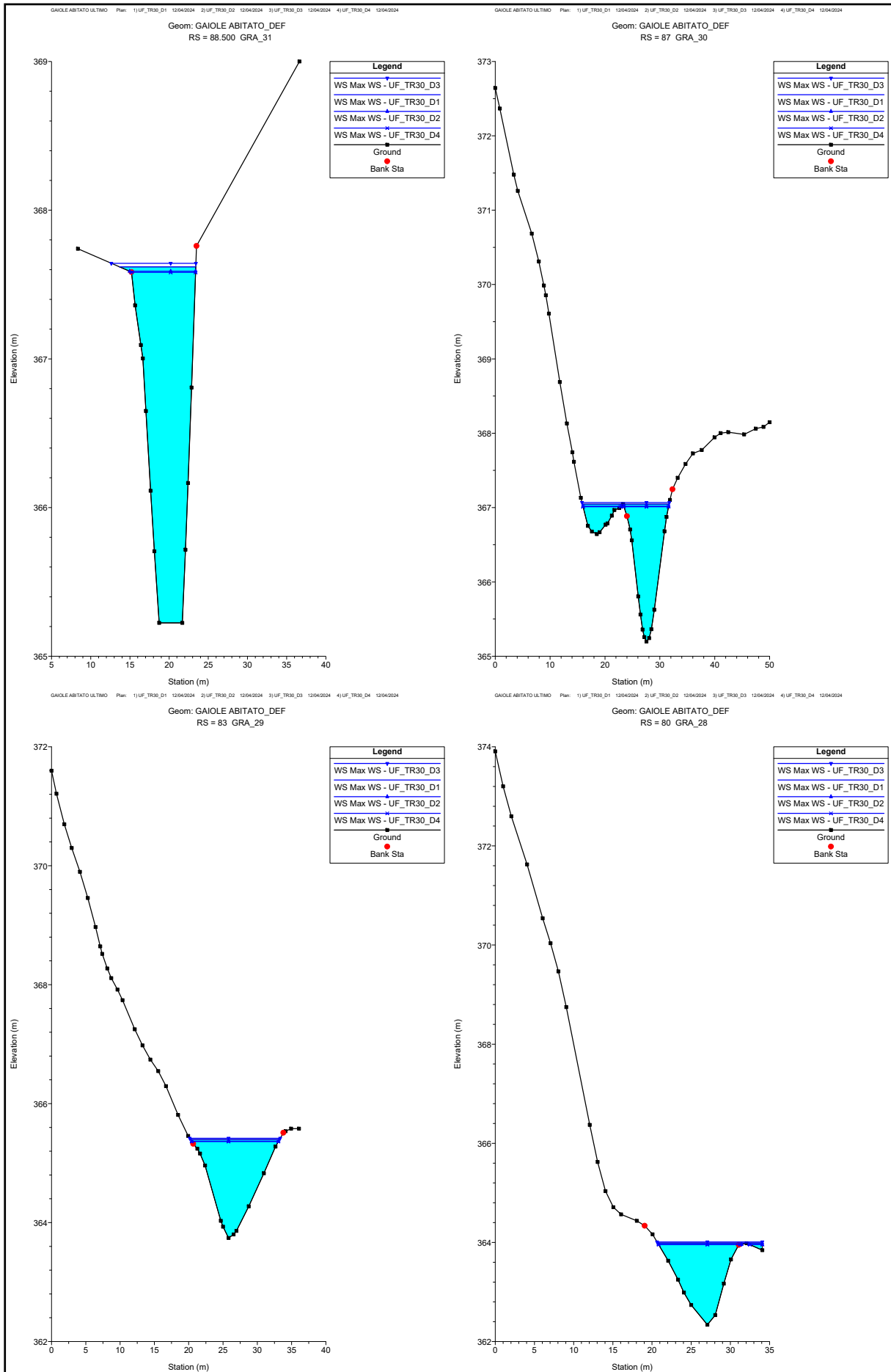
MODELLAZIONE PER TR= 30 anni

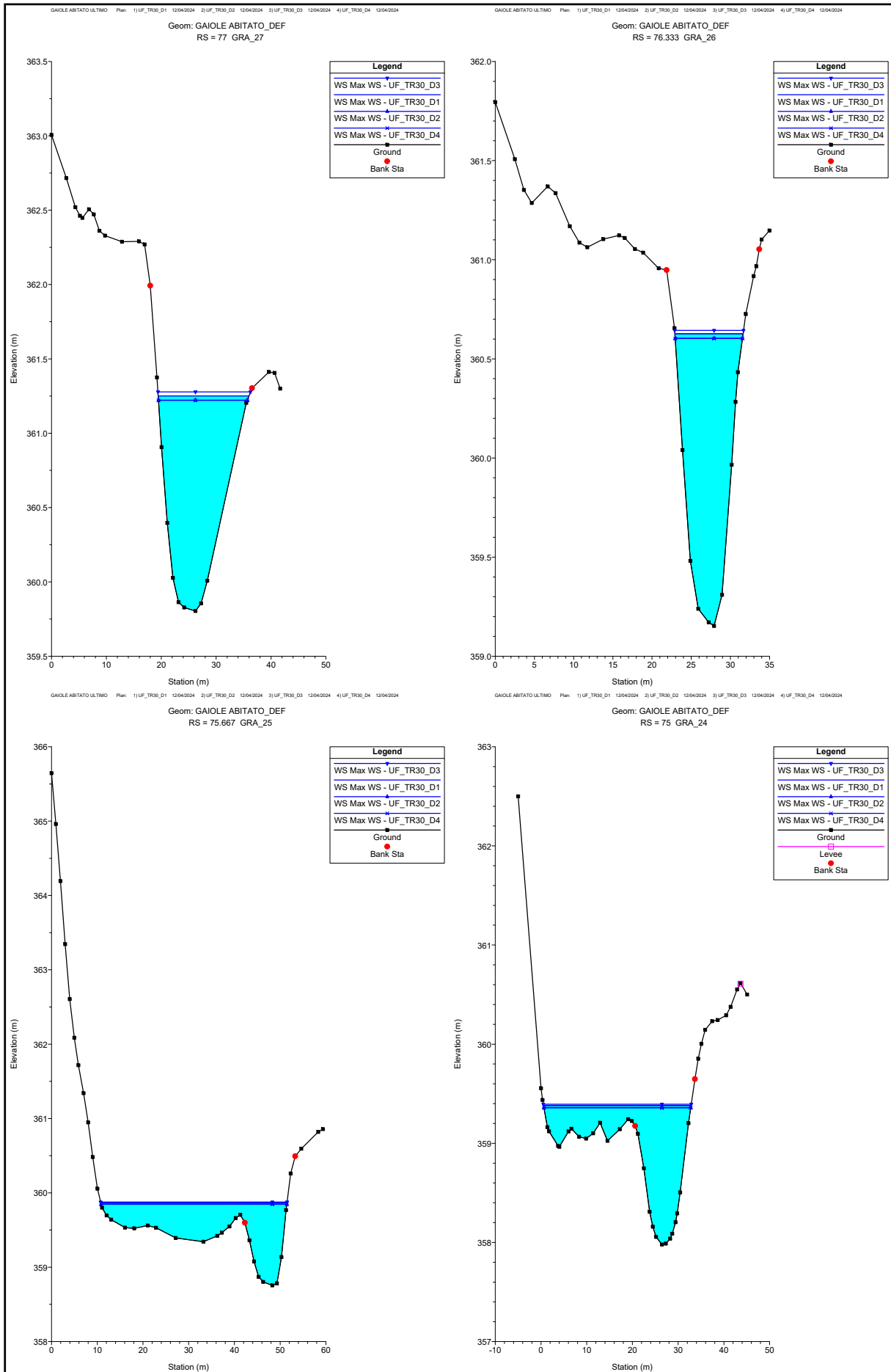
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

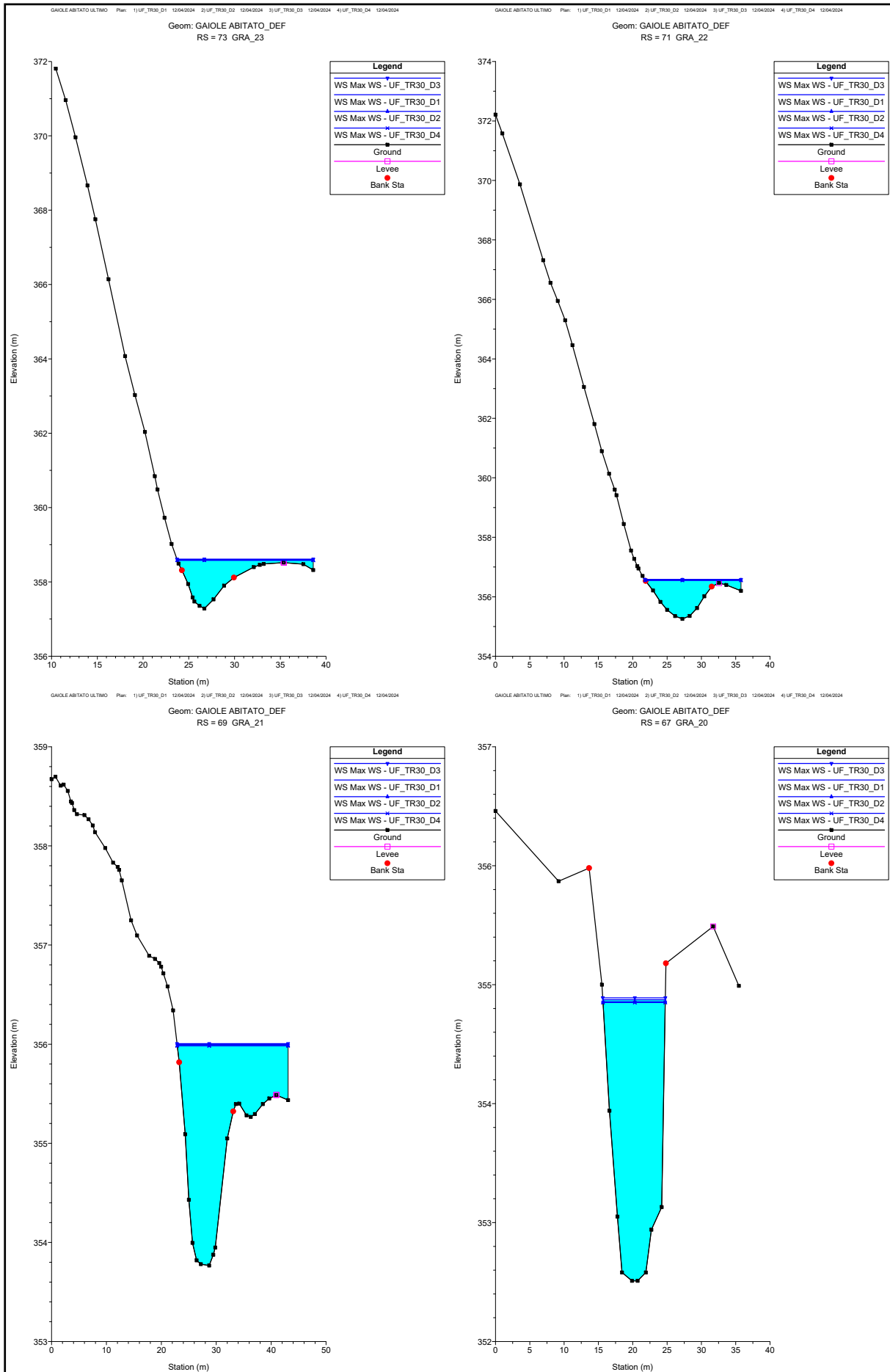
Sezioni Trasversali (da monte verso valle)

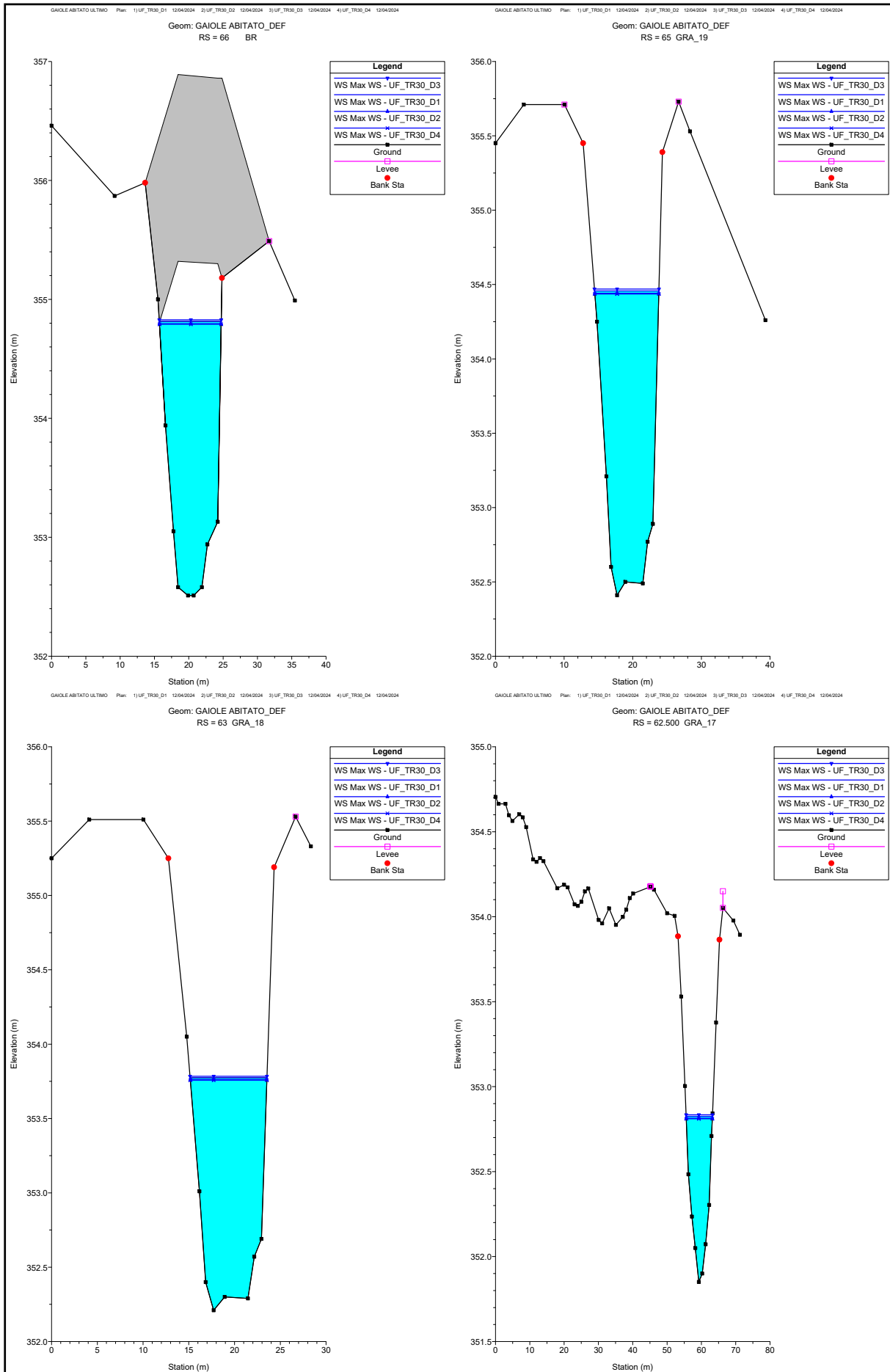


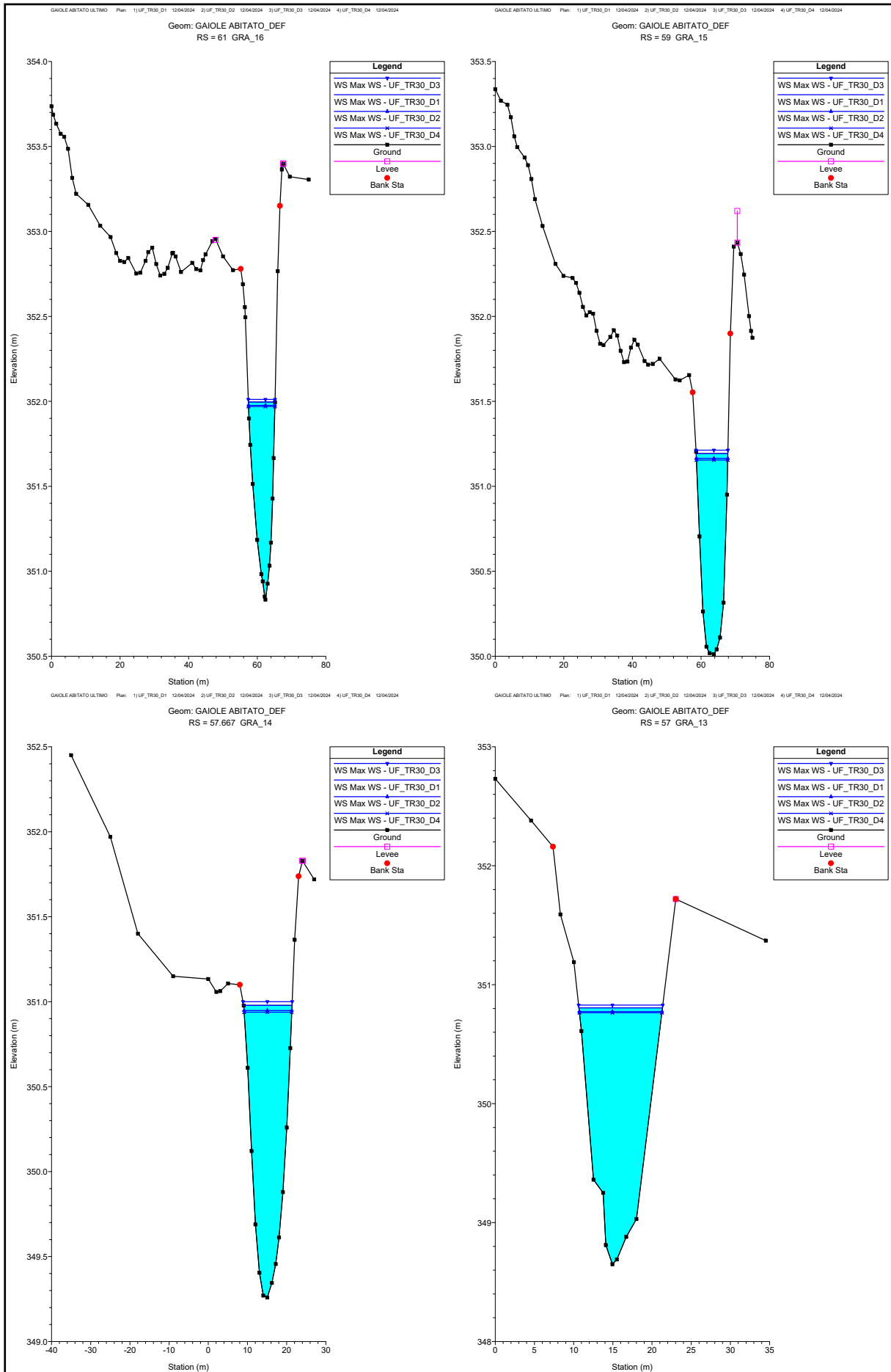


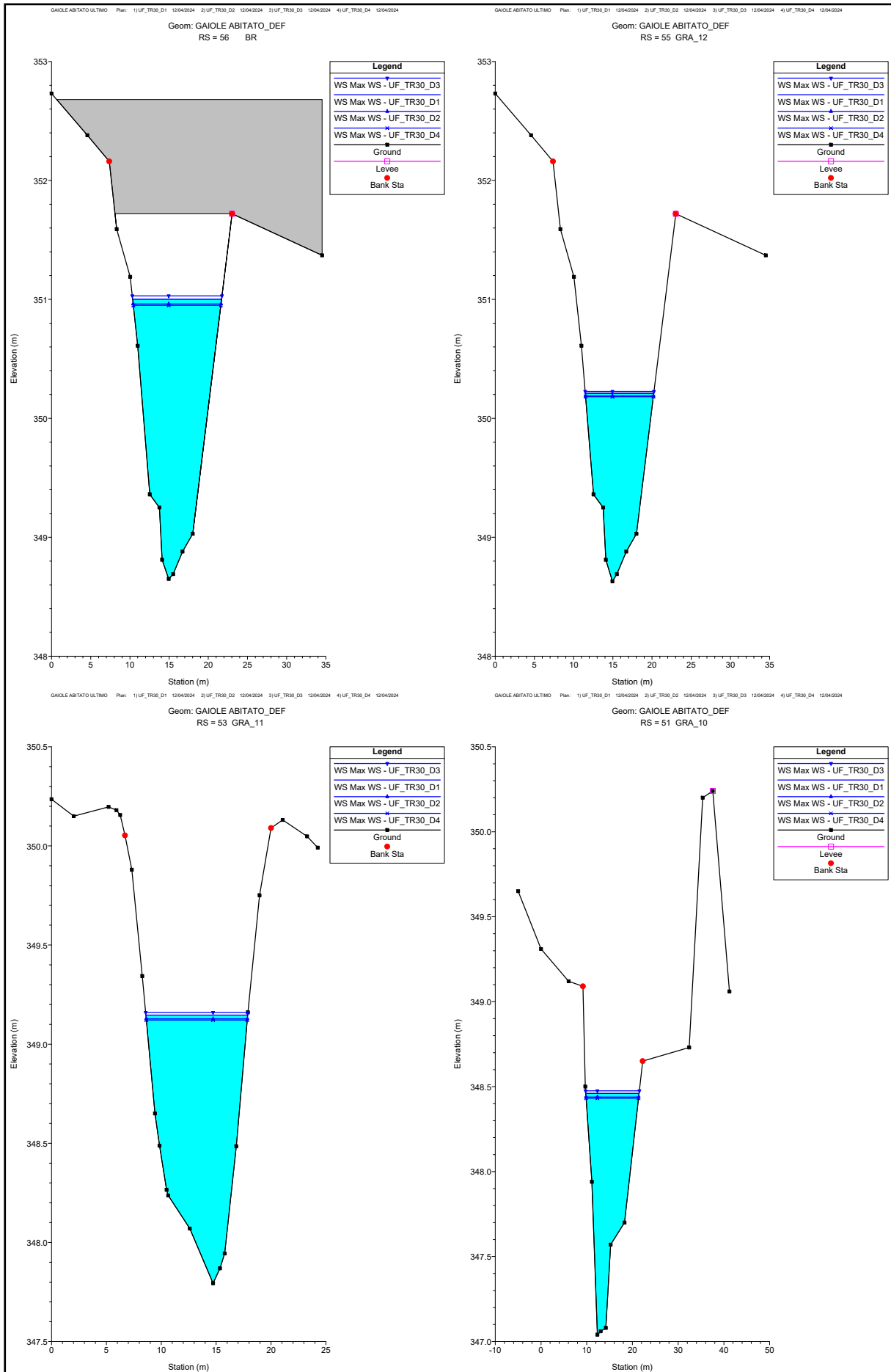


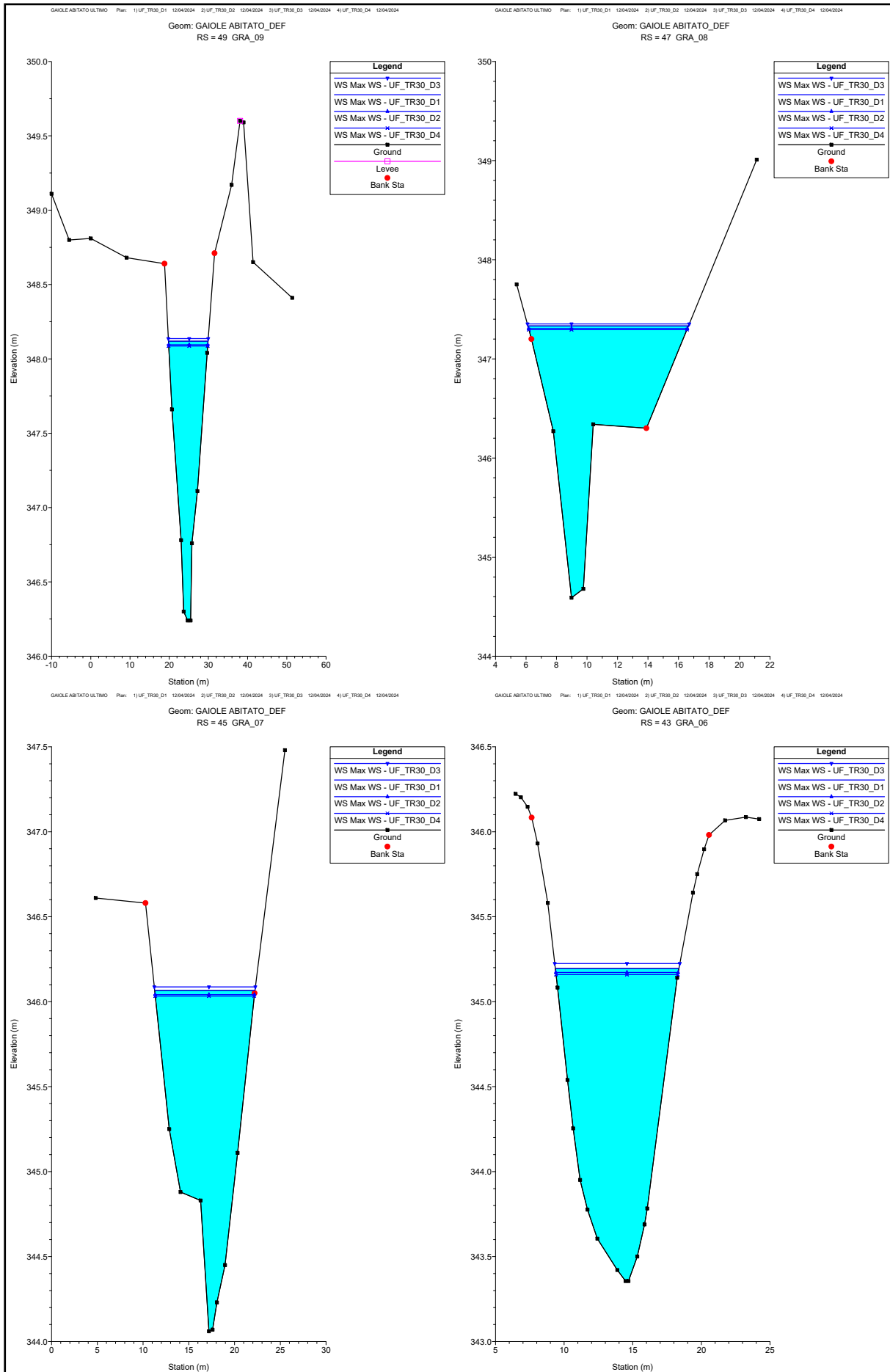


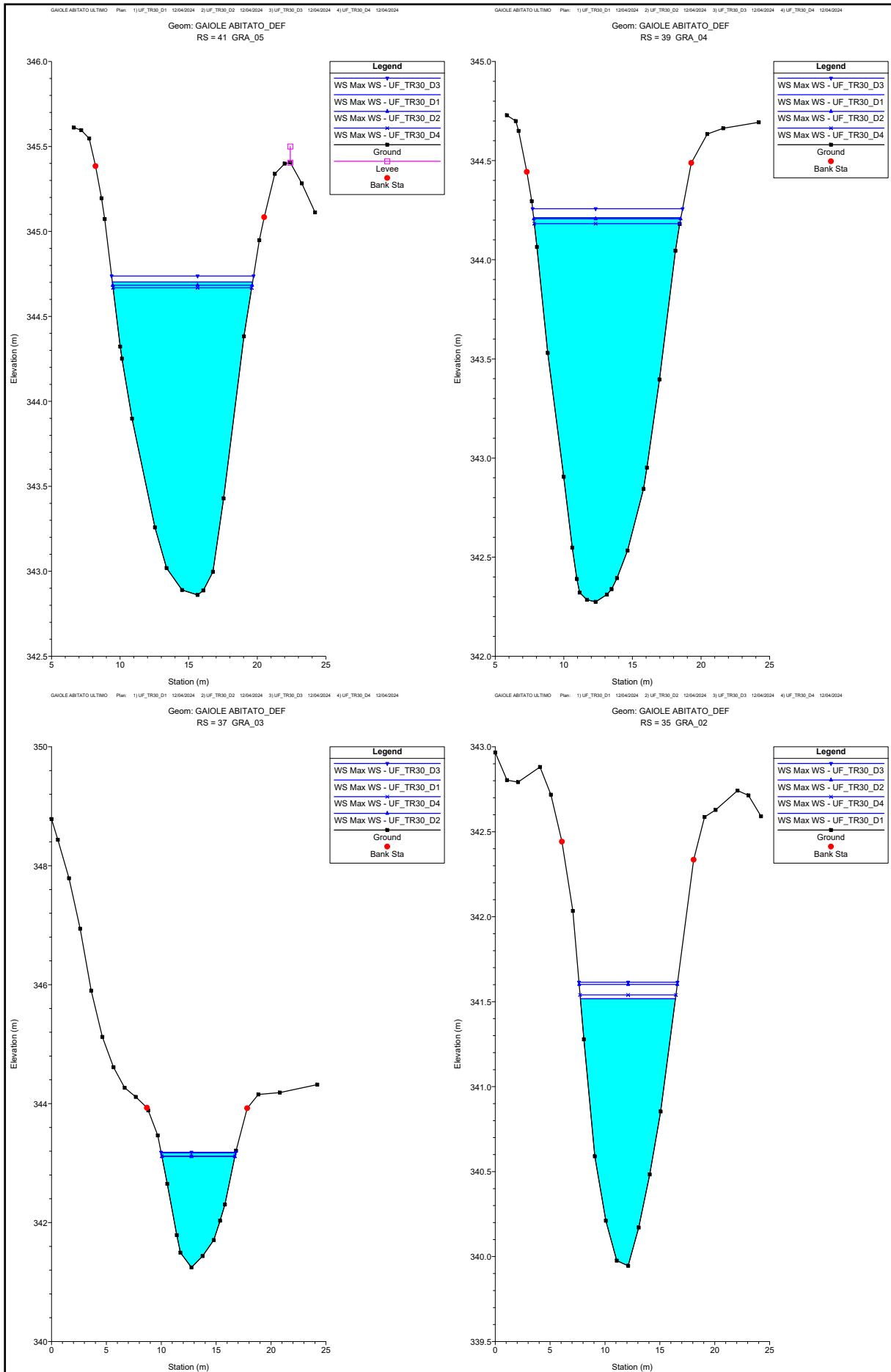




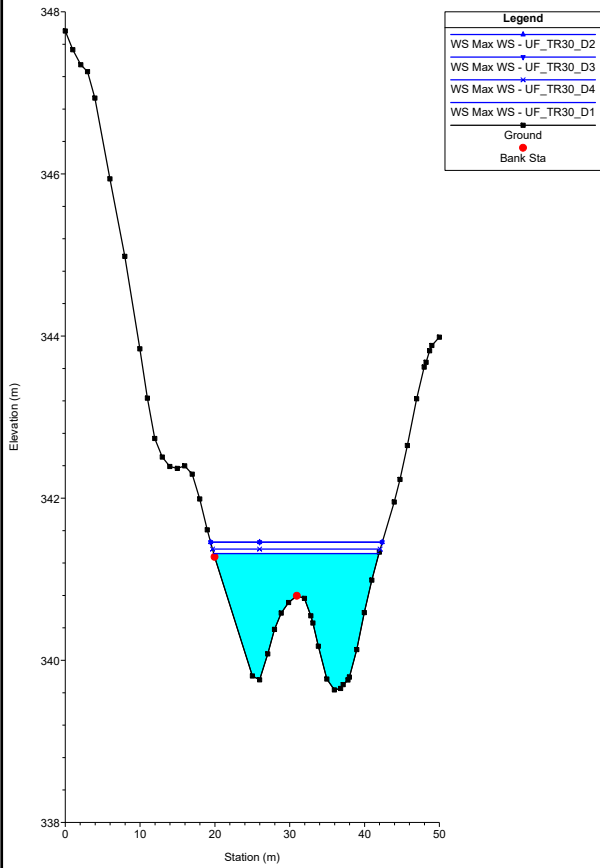








Geom: GAIOLE ABITATO_DEF
RS = 1 GRA_01



ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

F GRANDE

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

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
F Grande	100	Max WS	UF_TR30_D1	40.98	369.76	371.30	371.63	372.38	0.021826	4.60			8.91	9.27	1.50
F Grande	100	Max WS	UF_TR30_D2	39.21	369.76	371.27	371.59	372.33	0.021906	4.55			8.62	9.14	1.50
F Grande	100	Max WS	UF_TR30_D3	42.42	369.76	371.33	371.66	372.42	0.021741	4.63			9.15	9.38	1.50
F Grande	100	Max WS	UF_TR30_D4	38.76	369.76	371.26	371.58	372.31	0.021923	4.54			8.54	9.11	1.50
F Grande	95	Max WS	UF_TR30_D1	40.98	367.73	369.44	369.76	370.55	0.021745	4.68			8.76	8.60	1.48
F Grande	95	Max WS	UF_TR30_D2	39.21	367.73	369.39	369.72	370.51	0.022965	4.70			8.33	8.48	1.52
F Grande	95	Max WS	UF_TR30_D3	42.42	367.73	369.48	369.80	370.58	0.020783	4.65			9.11	8.70	1.45
F Grande	95	Max WS	UF_TR30_D4	38.76	367.73	369.37	369.71	370.51	0.023280	4.71			8.23	8.45	1.52
F Grande	94.99														
F Grande			Lat Struct												
F Grande	92	Max WS	UF_TR30_D1	40.97	366.47	369.12	368.18	369.30	0.001814	1.88			21.84	12.34	0.45
F Grande	92	Max WS	UF_TR30_D2	39.20	366.47	369.04	368.13	369.22	0.001892	1.88			20.85	12.15	0.46
F Grande	92	Max WS	UF_TR30_D3	42.41	366.47	369.18	368.21	369.36	0.001755	1.87			22.65	12.49	0.44
F Grande	92	Max WS	UF_TR30_D4	38.76	366.47	369.02	368.12	369.20	0.001914	1.88			20.60	12.10	0.46
F Grande	91.5														
F Grande			Bridge												
F Grande	91	Max WS	UF_TR30_D1	40.97	366.45	368.64		368.92	0.003382	2.36			17.39	11.11	0.60
F Grande	91	Max WS	UF_TR30_D2	39.20	366.45	368.59		368.86	0.003373	2.33			16.82	10.91	0.60
F Grande	91	Max WS	UF_TR30_D3	42.41	366.45	368.68		368.97	0.003378	2.38			17.85	11.24	0.60
F Grande	91	Max WS	UF_TR30_D4	38.76	366.45	368.57		368.85	0.003365	2.32			16.68	10.85	0.60
F Grande	90.8	Max WS	UF_TR30_D1	40.97	366.45	368.64	368.05	368.92	0.003387	2.36			17.38	11.11	0.60
F Grande	90.8	Max WS	UF_TR30_D2	39.20	366.45	368.59	368.00	368.86	0.003378	2.33			16.81	10.91	0.60
F Grande	90.8	Max WS	UF_TR30_D3	42.41	366.45	368.68	368.08	368.97	0.003382	2.38			17.84	11.23	0.60
F Grande	90.8	Max WS	UF_TR30_D4	38.76	366.45	368.57	367.99	368.85	0.003370	2.32			16.67	10.84	0.60
F Grande	90.5														
F Grande			Int Struct												
F Grande	90	Max WS	UF_TR30_D1	40.97	365.25	367.79		368.02	0.002267	2.15			19.02	9.10	0.48
F Grande	90	Max WS	UF_TR30_D2	39.20	365.25	367.75		367.97	0.002177	2.10			18.70	9.05	0.47
F Grande	90	Max WS	UF_TR30_D3	42.41	365.25	367.81		368.06	0.002340	2.20			19.28	9.13	0.48
F Grande	90	Max WS	UF_TR30_D4	38.76	365.25	367.74		367.96	0.002153	2.08			18.62	9.04	0.46
F Grande	88.500	Max WS	UF_TR30_D1	40.97	365.22	367.62		368.13	0.006634	3.17	0.11		12.93	9.74	0.81
F Grande	88.500	Max WS	UF_TR30_D2	39.20	365.22	367.59		368.08	0.006441	3.10	0.03		12.66	8.42	0.79
F Grande	88.500	Max WS	UF_TR30_D3	42.41	365.22	367.64		368.18	0.006784	3.24	0.16		13.18	10.79	0.82
F Grande	88.500	Max WS	UF_TR30_D4	38.75	365.22	367.58		368.06	0.006387	3.08			12.60	8.17	0.79
F Grande	87	Max WS	UF_TR30_D1	40.97	365.20	367.05	367.41	368.22	0.023982	4.92	1.12		9.66	15.76	1.54
F Grande	87	Max WS	UF_TR30_D2	39.20	365.20	367.02	367.38	368.18	0.023969	4.86	1.08		9.24	15.11	1.54
F Grande	87	Max WS	UF_TR30_D3	42.41	365.20	367.07	367.43	368.26	0.023941	4.96	1.16		10.01	15.91	1.55
F Grande	87	Max WS	UF_TR30_D4	38.75	365.20	367.01	367.37	368.16	0.023961	4.85	1.07		9.14	14.94	1.54
F Grande	84.99														
F Grande			Lat Struct												
F Grande	83	Max WS	UF_TR30_D1	40.94	363.74	365.40	365.57	366.12	0.016134	3.76	0.27		10.91	12.97	1.29
F Grande	83	Max WS	UF_TR30_D2	39.18	363.74	365.37	365.54	366.07	0.016210	3.71	0.20		10.56	12.69	1.29
F Grande	83	Max WS	UF_TR30_D3	42.38	363.74	365.42	365.60	366.15	0.016139	3.80	0.32		11.18	13.19	1.29
F Grande	83	Max WS	UF_TR30_D4	38.73	363.74	365.36	365.54	366.06	0.016245	3.70	0.18		10.46	12.61	1.29
F Grande	80	Max WS	UF_TR30_D1	40.87	362.34	363.99	364.31	365.00	0.022769	4.47		0.43	9.31	13.35	1.52
F Grande	80	Max WS	UF_TR30_D2	39.11	362.34	363.96	364.28	364.95	0.022811	4.41		0.43	8.97	12.31	1.51
F Grande	80	Max WS	UF_TR30_D3	42.19	362.34	364.01	364.33	365.04	0.022665	4.50		0.53	9.58	13.43	1.52
F Grande	80	Max WS	UF_TR30_D4	38.63	362.34	363.95	364.27	364.94	0.022823	4.39		0.42	8.88	11.97	1.51
F Grande	77	Max WS	UF_TR30_D1	43.22	359.80	361.25	361.21	361.67	0.008618	2.86			15.09	16.55	0.96
F Grande	77	Max WS	UF_TR30_D2	41.86	359.80	361.22	361.19	361.64	0.008724	2.86			14.63	16.21	0.96
F Grande	77	Max WS	UF_TR30_D3	44.99	359.80	361.28	361.25	361.71	0.008692	2.89			15.54	16.88	0.96
F Grande	77	Max WS	UF_TR30_D4	41.70	359.80	361.22	361.19	361.64	0.008696	2.86			14.60	16.19	0.96
F Grande	76.333	Max WS	UF_TR30_D1	42.49	359.15	360.63	361.15	361.95	0.027143	5.09			8.35	8.70	1.66
F Grande	76.333	Max WS	UF_TR30_D2	40.84	359.15	360.60	361.06	361.88	0.026648	5.01			8.16	8.58	1.64
F Grande	76.333	Max WS	UF_TR30_D3	43.86	359.15	360.64	361.19	362.00	0.027609	5.16			8.50	8.79	1.67
F Grande	76.333	Max WS	UF_TR30_D4	40.79	359.15	360.60	361.06	361.88	0.026648	5.00			8.15	8.58	1.64
F Grande	75.667	Max WS	UF_TR30_D1	42.38	358.76	359.87	360.00	360.34	0.016345	3.84	1.30		18.97	40.72	1.28
F Grande	75.667	Max WS	UF_TR30_D2	40.68	358.76	359.85	359.98	360.32	0.016526	3.82	1.27		18.30	40.62	1.29
F Grande	75.667	Max WS	UF_TR30_D3	43.56	358.76	359.88	360.01	360.35	0.016219	3.66	1.32		19.43	40.79	1.28
F Grande	75.667	Max WS	UF_TR30_D4	40.56	358.76	359.85	359.98	360.32	0.016631	3.63	1.27		18.21	40.61	1.29
F Grande	75.66														
F Grande			Lat Struct												
F Grande	75	Max WS	UF_TR30_D1	42.30	357.98	359.38	359.52	359.88	0.011421	3.32	0.89		16.70	32.27	1.10
F Grande	75	Max WS	UF_TR30_D2	40.65	357.98	359.36	359.50	359.86	0.011504	3.29	0.85		16.05	32.13	1.10
F Grande	75	Max WS	UF_TR30_D3	43.53	357.98	359.39	359.54	359.90	0.011416	3.34	0.92		17.14	32.36	1.10
F Grande	75	Max WS	UF_TR30_D4	40.42	357.98	359.36	359.50	359.86	0.011539	3.29	0.84		15.95	32.10	1.10
F Grande	73	Max WS	UF_TR30_D1	25.00	357.28	358.60	358.91	359.60	0.023234	4.56	0.81	0.95	6.80	14.88	1.53
F Grande	73	Max WS	UF_TR30_D2	24.02	357.28	358.58	358.89	359.56	0.023233	4.50	0.77	0.89	6.54	14.85	1.53
F Grande	73	Max WS	UF_TR30_D3	25.78	357.28	358.61	358.93	359.62	0.023303	4.61	0.83	1.00	6.99	14.90	1.54
F Grande	73	Max WS	UF_TR30_D4	23.86	357.28	358.58	358.89	359.55	0.023223	4.49	0.77	0.88	6.50	14.85	1.52
F Grande	71	Max WS	UF_TR30_D1	26.16	355.26	356.57	356.67	357.07	0.011998	3.17	0.16	0.74	8.95	13.99	1.11
F Grande	71	Max WS	UF_TR30_D2	25.43	355.26	356.56	356.65	357.05	0.012075	3.14	0.12	0.71	8.75	13.95	1.11
F Grande	71	Max WS	UF_TR30_D3	26.78	355.26	356.58	356.68	357.09	0.012019	3.20	0.18	0.76	9.10	14.02	1.11
F Grande	71	Max WS	UF_TR30_D4	25.27	355.26	356.55	356.65	357.04	0.012115	3.14	0.11	0.70	8.70	13.94	1.11
F Grande	69	Max WS	UF_TR30_D1	22.11	353.77	356.00		356.07	0.000844	1.25	0.11	0.40	21.89	20.22	0.31
F Grande	69	Max WS	UF_TR30_D2	21.65	353.77	355.99		356.06	0.000831	1.23	0.10	0.39	21.67	20.20	0.31
F Grande	69	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
F_Grande	63	Max WS	UF_TR30_D3	13.08	352.21	353.78		353.87	0.094371	1.28			10.23	8.41	0.37
F_Grande	63	Max WS	UF_TR30_D4	12.63	352.21	353.76		353.84	0.093630	1.26			10.01	8.37	0.37
F_Grande	62.99		Lat Struct												
F_Grande	62.500	Max WS	UF_TR30_D1	13.87	351.85	352.83	352.90	353.25	0.014556	2.87			4.83	7.66	1.16
F_Grande	62.500	Max WS	UF_TR30_D2	13.60	351.85	352.81	352.89	353.23	0.014695	2.87			4.74	7.62	1.16
F_Grande	62.500	Max WS	UF_TR30_D3	14.08	351.85	352.83	352.90	353.26	0.014414	2.88			4.89	7.70	1.15
F_Grande	62.500	Max WS	UF_TR30_D4	13.52	351.85	352.81	352.88	353.23	0.014744	2.87			4.72	7.60	1.16
F_Grande	61	Max WS	UF_TR30_D1	17.85	350.83	352.00	352.08	352.49	0.013914	3.10			5.76	7.77	1.15
F_Grande	61	Max WS	UF_TR30_D2	17.25	350.83	351.98	352.06	352.46	0.014072	3.08			5.60	7.71	1.15
F_Grande	61	Max WS	UF_TR30_D3	18.32	350.83	352.01	352.09	352.51	0.013820	3.12			5.88	7.81	1.15
F_Grande	61	Max WS	UF_TR30_D4	17.07	350.83	351.97	352.05	352.45	0.014115	3.07			5.56	7.69	1.15
F_Grande	59	Max WS	UF_TR30_D1	20.69	350.01	351.19		351.52	0.007313	2.53			8.18	9.24	0.86
F_Grande	59	Max WS	UF_TR30_D2	19.85	350.01	351.16		351.48	0.007392	2.51			7.92	9.15	0.86
F_Grande	59	Max WS	UF_TR30_D3	21.35	350.01	351.21		351.54	0.007300	2.55			8.36	9.31	0.86
F_Grande	59	Max WS	UF_TR30_D4	19.59	350.01	351.15		351.47	0.007422	2.50			7.83	9.13	0.86
F_Grande	57.667	Max WS	UF_TR30_D1	27.44	349.26	350.98		351.17	0.002154	1.96			14.02	12.34	0.59
F_Grande	57.667	Max WS	UF_TR30_D2	26.36	349.26	350.95		351.14	0.002141	1.93			13.65	12.19	0.58
F_Grande	57.667	Max WS	UF_TR30_D3	28.18	349.26	351.00		351.20	0.002182	1.97			14.29	12.55	0.59
F_Grande	57.667	Max WS	UF_TR30_D4	26.04	349.26	350.94		351.13	0.002139	1.92			13.53	12.15	0.58
F_Grande	57	Max WS	UF_TR30_D1	37.23	348.65	350.81	350.47	351.14	0.003164	2.57			14.49	10.67	0.70
F_Grande	57	Max WS	UF_TR30_D2	36.02	348.65	350.77	350.44	351.10	0.003159	2.55			14.15	10.55	0.70
F_Grande	57	Max WS	UF_TR30_D3	38.07	348.65	350.83	350.48	351.17	0.003164	2.59			14.73	10.74	0.71
F_Grande	57	Max WS	UF_TR30_D4	35.65	348.65	350.76	350.43	351.09	0.003158	2.54			14.04	10.52	0.70
F_Grande	56		Bridge												
F_Grande	55	Max WS	UF_TR30_D1	37.23	348.63	350.21	350.47	351.14	0.012842	4.26			8.74	8.74	1.36
F_Grande	55	Max WS	UF_TR30_D2	36.02	348.63	350.19	350.44	351.09	0.012796	4.21			8.55	8.67	1.35
F_Grande	55	Max WS	UF_TR30_D3	38.07	348.63	350.23	350.48	351.16	0.012855	4.29			8.88	8.79	1.36
F_Grande	55	Max WS	UF_TR30_D4	35.65	348.63	350.18	350.42	351.08	0.012789	4.20			8.49	8.65	1.35
F_Grande	53	Max WS	UF_TR30_D1	37.21	347.79	349.15	349.46	350.17	0.015839	4.49			8.29	9.27	1.52
F_Grande	53	Max WS	UF_TR30_D2	36.02	347.79	349.13	349.43	350.13	0.015792	4.44			8.11	9.21	1.51
F_Grande	53	Max WS	UF_TR30_D3	38.07	347.79	349.16	349.48	350.20	0.015912	4.53			8.41	9.31	1.52
F_Grande	53	Max WS	UF_TR30_D4	35.65	347.79	349.12	349.42	350.12	0.015767	4.42			8.06	9.19	1.51
F_Grande	51	Max WS	UF_TR30_D1	37.20	347.04	348.46	348.81	349.33	0.016052	4.13			9.01	11.67	1.50
F_Grande	51	Max WS	UF_TR30_D2	36.01	347.04	348.44	348.78	349.30	0.016257	4.11			8.76	11.53	1.51
F_Grande	51	Max WS	UF_TR30_D3	38.06	347.04	348.48	348.83	349.35	0.015927	4.14			9.19	11.77	1.50
F_Grande	51	Max WS	UF_TR30_D4	35.65	347.04	348.43	348.77	349.29	0.016336	4.11			8.68	11.48	1.51
F_Grande	49	Max WS	UF_TR30_D1	37.19	346.24	348.12	348.25	348.80	0.009265	3.65			10.19	10.09	1.16
F_Grande	49	Max WS	UF_TR30_D2	36.01	346.24	348.09	348.21	348.76	0.009268	3.62			9.95	9.98	1.16
F_Grande	49	Max WS	UF_TR30_D3	38.06	346.24	348.14	348.26	348.82	0.009263	3.67			10.36	10.17	1.16
F_Grande	49	Max WS	UF_TR30_D4	35.64	346.24	348.09	348.21	348.75	0.009277	3.61			9.87	9.94	1.16
F_Grande	48.74		Lat Struct												
F_Grande	47	Max WS	UF_TR30_D1	37.19	344.59	347.33	347.33	347.89	0.010160	3.39	0.50	2.48	11.37	10.53	0.94
F_Grande	47	Max WS	UF_TR30_D2	36.01	344.59	347.31	347.30	347.86	0.010285	3.36	0.43	2.45	11.09	10.41	0.94
F_Grande	47	Max WS	UF_TR30_D3	38.06	344.59	347.35	347.35	347.92	0.010076	3.41	0.55	2.50	11.58	10.61	0.94
F_Grande	47	Max WS	UF_TR30_D4	35.64	344.59	347.30	347.30	347.84	0.010331	3.35	0.41	2.44	11.00	10.37	0.95
F_Grande_VALLE	45	Max WS	UF_TR30_D1	38.19	344.06	346.07	346.04	346.59	0.009193	3.20		0.15	11.92	10.96	0.98
F_Grande_VALLE	45	Max WS	UF_TR30_D2	37.02	344.06	346.04	346.02	346.56	0.009243	3.18			11.65	10.85	0.98
F_Grande_VALLE	45	Max WS	UF_TR30_D3	39.06	344.06	346.09	346.06	346.61	0.009077	3.22		0.25	12.15	11.05	0.98
F_Grande_VALLE	45	Max WS	UF_TR30_D4	36.64	344.06	346.03	346.01	346.55	0.009270	3.17			11.56	10.82	0.98
F_Grande_VALLE	44.99		Lat Struct												
F_Grande_VALLE	44.9		Lat Struct												
F_Grande_VALLE	43	Max WS	UF_TR30_D1	39.77	343.36	345.20	345.27	345.89	0.011012	3.69			10.77	9.01	1.08
F_Grande_VALLE	43	Max WS	UF_TR30_D2	38.59	343.36	345.17	345.24	345.85	0.010934	3.66			10.56	8.92	1.07
F_Grande_VALLE	43	Max WS	UF_TR30_D3	40.91	343.36	345.22	345.30	345.93	0.010939	3.71			11.03	9.11	1.08
F_Grande_VALLE	43	Max WS	UF_TR30_D4	38.11	343.36	345.16	345.23	345.84	0.010966	3.65			10.45	8.87	1.07
F_Grande_VALLE	41	Max WS	UF_TR30_D1	40.26	342.86	344.70	344.66	345.25	0.008374	3.27			12.31	10.23	0.95
F_Grande_VALLE	41	Max WS	UF_TR30_D2	39.11	342.86	344.68	344.63	345.22	0.008255	3.23			12.11	10.16	0.94
F_Grande_VALLE	41	Max WS	UF_TR30_D3	41.55	342.86	344.74	344.69	345.29	0.008241	3.28			12.67	10.35	0.95
F_Grande_VALLE	41	Max WS	UF_TR30_D4	38.60	342.86	344.67	344.62	345.20	0.008329	3.23			11.96	10.11	0.95
F_Grande_VALLE	39	Max WS	UF_TR30_D1	40.23	342.27	344.21		344.66	0.006428	2.96			13.58	10.74	0.84
F_Grande_VALLE	39	Max WS	UF_TR30_D2	39.03	342.27	344.21		344.63	0.006125	2.89			13.51	10.71	0.82
F_Grande_VALLE	39	Max WS	UF_TR30_D3	41.58	342.27	344.26		344.70	0.006257	2.96			14.06	10.93	0.83
F_Grande_VALLE	39	Max WS	UF_TR30_D4	38.64	342.27	344.18		344.62	0.006308	2.91			13.26	10.61	0.83
F_Grande_VALLE	37	Max WS	UF_TR30_D1	40.10	341.25	343.17	343.50	344.33	0.019295	4.77			8.41	6.78	1.37
F_Grande_VALLE	37	Max WS	UF_TR30_D2	39.09	341.25	343.11	343.47	344.33	0.021186	4.90			7.97	6.64	1.43
F_Grande_VALLE	37	Max WS	UF_TR30_D3	41.59	341.25	343.18	343.55	344.41	0.020370	4.91			8.46	6.80	1.41
F_Grande_VALLE	37	Max WS	UF_TR30_D4	38.62	341.25	343.12	343.46	344.30	0.020260	4.81			8.03	6.66	1.40
F_Grande_VALLE	35	Max WS	UF_TR30_D1	40.24	339.95	341.52	341.85	342.62	0.021465	4.64			8.67	6.66	1.48
F_Grande_VALLE	35	Max WS	UF_TR30_D2	38.72	339.95	341.60	341.81	342.46	0.015824	4.11			9.41	8.95	1.28
F_Grande_VALLE	35	Max WS	UF_TR30_D3	41.08	339.95	341.61	341.87	342.56	0.017212	4.31			9.53	8.99	1.34
F_Grande_VALLE	35	Max WS	UF_TR30_D4	38.23	339.95	341.54	341.80	342.49	0.018208	4.31			8.86	8.74	1.37
F_Grande_VALLE	1	Max WS	UF_TR30_D1	39.44	339.76	341.32		341.51	0.005483	2.26	0.11	1.48	21.39	22.07	0.76
F_Grande_VALLE	1	Max WS	UF_TR30_D2	38.34	339.76	341.46		341.60	0.003339	1.94	0.23	1.23	24.57	22.95	0.61
F_Grande_VALLE	1	Max WS	UF_TR30_D3	40.13	339.76	341.46		341.62	0.003661	2.03	0.2				

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

Il Piano

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

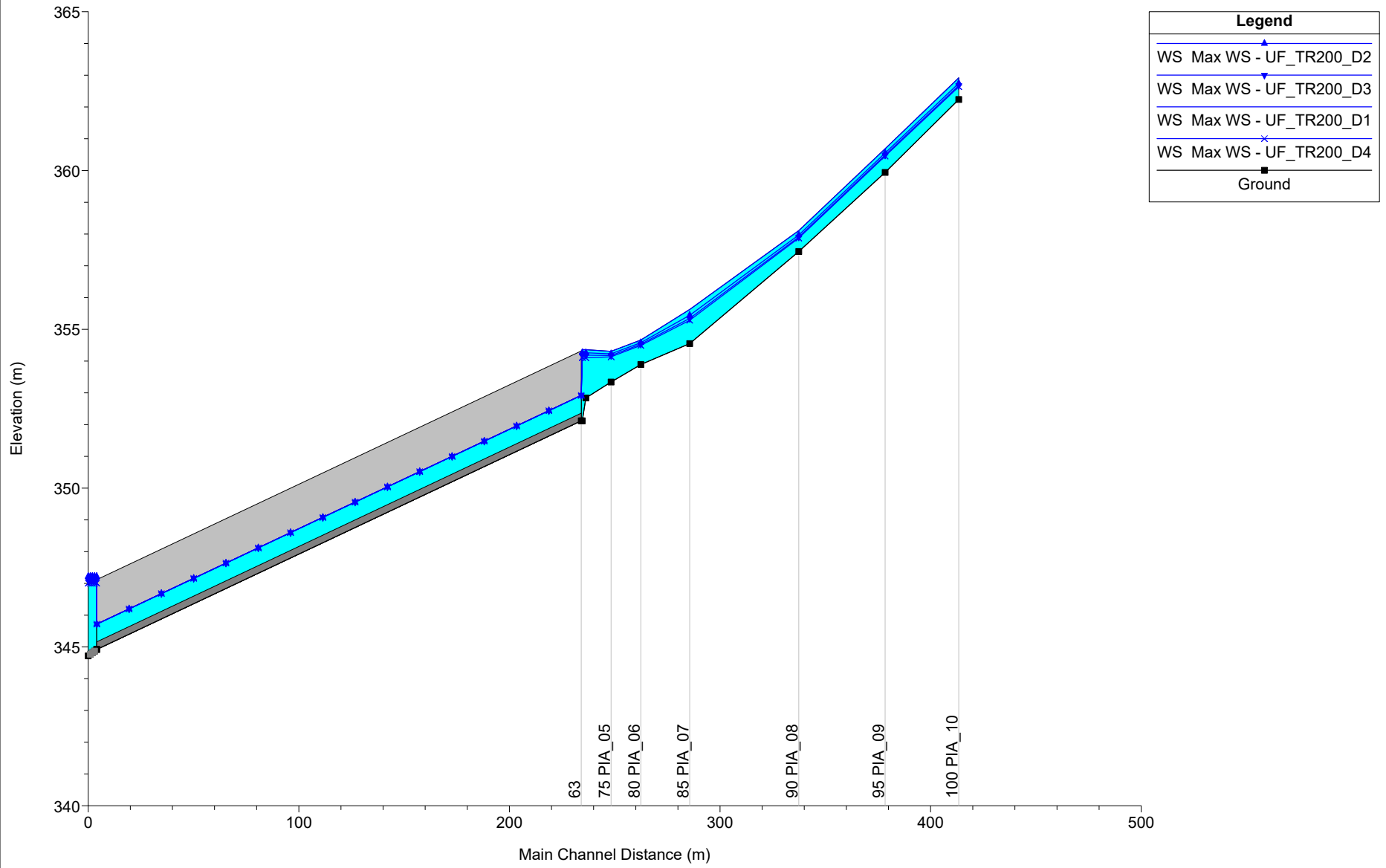
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

II Piano

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

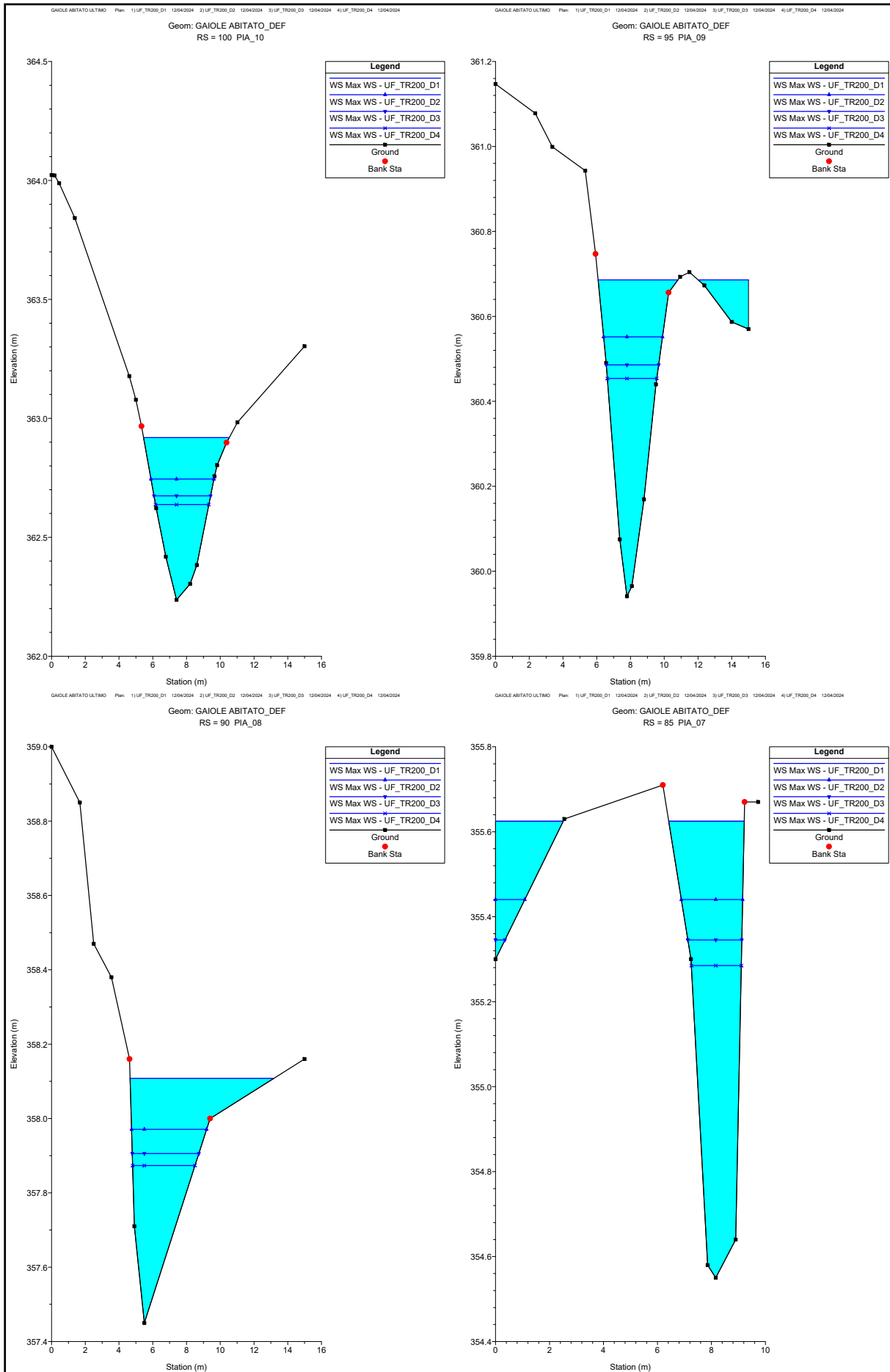
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

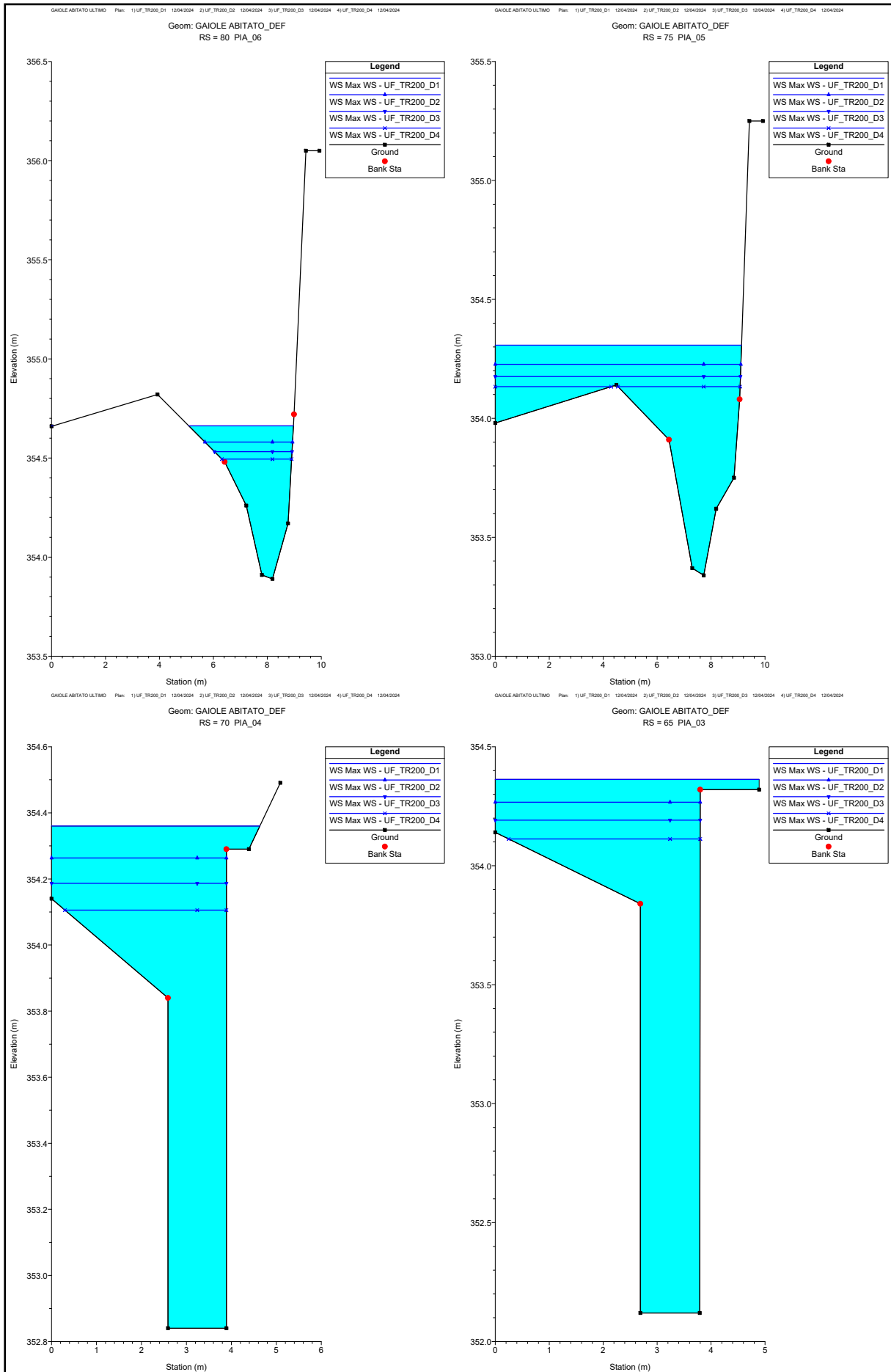
Il Piano

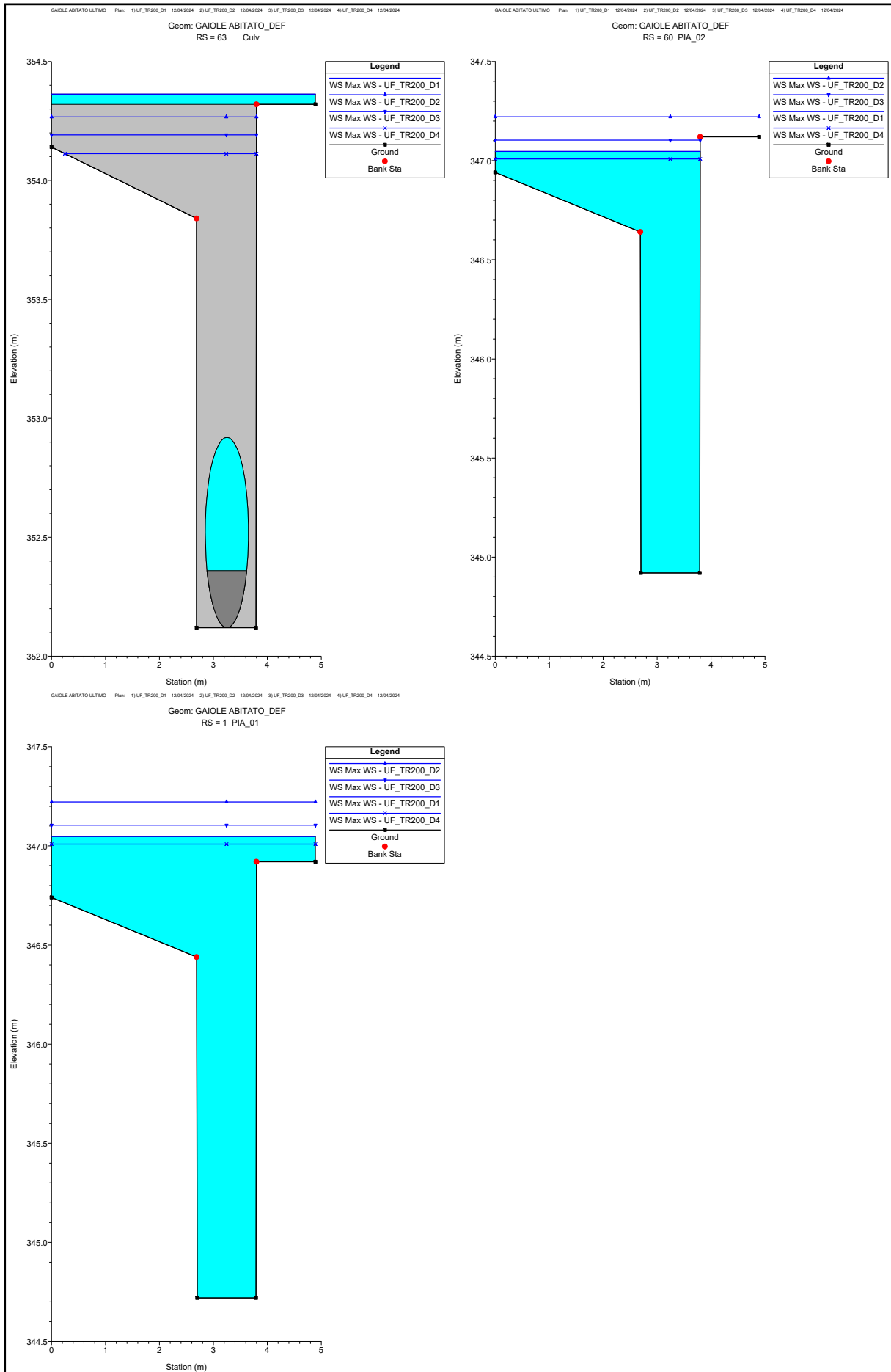
MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

II Piano

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: IIPIano Reach: IIPIano 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
IIPIano	100	Max WS	UF_TR200_D1	6.98	362.24	362.92	363.14	363.61	0.062853	3.69		0.20	1.90	5.09	1.90
IIPIano	100	Max WS	UF_TR200_D2	3.74	362.24	362.74	362.92	363.30	0.068283	3.29			1.14	3.73	1.90
IIPIano	100	Max WS	UF_TR200_D3	2.77	362.24	362.67	362.83	363.17	0.074009	3.12			0.89	3.36	1.94
IIPIano	100	Max WS	UF_TR200_D4	2.32	362.24	362.64	362.78	363.10	0.077101	3.02			0.77	3.16	1.95
IIPIano	99		Lat Struct												
IIPIano	95	Max WS	UF_TR200_D1	6.86	359.94	360.69	360.91	361.47	0.069795	3.96		0.69	1.90	7.73	1.99
IIPIano	95	Max WS	UF_TR200_D2	3.74	359.94	360.55	360.75	361.07	0.057935	3.19			1.17	3.49	1.76
IIPIano	95	Max WS	UF_TR200_D3	2.77	359.94	360.49	360.64	360.91	0.054004	2.90			0.96	3.11	1.67
IIPIano	95	Max WS	UF_TR200_D4	2.32	359.94	360.45	360.58	360.83	0.049931	2.70			0.86	2.94	1.59
IIPIano	90	Max WS	UF_TR200_D1	6.82	357.45	358.11	358.31	358.76	0.060512	3.60		0.59	2.06	8.53	1.84
IIPIano	90	Max WS	UF_TR200_D2	3.74	357.45	357.97	358.14	358.45	0.070248	3.08			1.21	4.45	1.88
IIPIano	90	Max WS	UF_TR200_D3	2.77	357.45	357.91	358.05	358.35	0.076646	2.95			0.94	3.95	1.93
IIPIano	90	Max WS	UF_TR200_D4	2.32	357.45	357.87	358.00	358.28	0.078256	2.84			0.82	3.70	1.93
IIPIano	89.98		Lat Struct												
IIPIano	85	Max WS	UF_TR200_D1	6.24	354.55	355.62	355.82	356.14	0.037242	3.28	0.88		2.20	5.31	1.31
IIPIano	85	Max WS	UF_TR200_D2	3.65	354.55	355.44	355.55	355.82	0.029775	2.73	0.45		1.40	3.36	1.14
IIPIano	85	Max WS	UF_TR200_D3	2.76	354.55	355.35	355.38	355.65	0.025803	2.46	0.20		1.13	2.35	1.05
IIPIano	85	Max WS	UF_TR200_D4	2.32	354.55	355.29	355.28	355.56	0.023654	2.30			1.01	1.85	1.00
IIPIano	80	Max WS	UF_TR200_D1	4.49	353.89	354.66	354.89	355.25	0.046394	3.44	0.72		1.40	3.93	1.55
IIPIano	80	Max WS	UF_TR200_D2	3.31	353.89	354.58	354.76	355.06	0.045143	3.07	0.48		1.11	3.25	1.50
IIPIano	80	Max WS	UF_TR200_D3	2.74	353.89	354.53	354.67	354.95	0.045179	2.87	0.31		0.96	2.88	1.48
IIPIano	80	Max WS	UF_TR200_D4	2.32	353.89	354.49	354.61	354.87	0.044919	2.70	0.13		0.86	2.59	1.46
IIPIano	75	Max WS	UF_TR200_D1	3.34	353.34	354.31		354.39	0.004635	1.40	0.44	0.12	3.53	9.13	0.53
IIPIano	75	Max WS	UF_TR200_D2	2.74	353.34	354.23		354.31	0.005475	1.40	0.38	0.10	2.80	9.11	0.56
IIPIano	75	Max WS	UF_TR200_D3	2.42	353.34	354.18		354.27	0.006318	1.42	0.33	0.08	2.33	9.09	0.60
IIPIano	75	Max WS	UF_TR200_D4	2.14	353.34	354.13		354.23	0.007006	1.42	0.28	0.05	1.94	8.82	0.62
IIPIano	70	Max WS	UF_TR200_D1	1.42	352.84	354.36		354.38	0.001014	0.59	0.26	0.08	2.98	4.63	0.15
IIPIano	70	Max WS	UF_TR200_D2	1.30	352.84	354.26		354.28	0.001173	0.61	0.23		2.56	3.89	0.16
IIPIano	70	Max WS	UF_TR200_D3	1.26	352.84	354.19		354.21	0.001426	0.66	0.21		2.26	3.89	0.18
IIPIano	70	Max WS	UF_TR200_D4	1.23	352.84	354.11		354.13	0.001756	0.71	0.18		1.95	3.59	0.20
IIPIano	65	Max WS	UF_TR200_D1	1.42	352.12	354.36		354.37	0.000736	0.48	0.22	0.05	3.53	4.89	0.10
IIPIano	65	Max WS	UF_TR200_D2	1.30	352.12	354.27		354.28	0.000782	0.49	0.19		3.12	3.80	0.11
IIPIano	65	Max WS	UF_TR200_D3	1.26	352.12	354.19		354.20	0.000887	0.51	0.17		2.83	3.80	0.11
IIPIano	65	Max WS	UF_TR200_D4	1.23	352.12	354.11		354.13	0.001008	0.54	0.14		2.53	3.55	0.12
IIPIano	63		Culvert												
IIPIano	60	Max WS	UF_TR200_D1	1.00	344.92	347.05		347.05	0.000490	0.38	0.14		3.03	3.80	0.08
IIPIano	60	Max WS	UF_TR200_D2	1.00	344.92	347.22		347.23	0.000312	0.32	0.16	0.06	3.81	4.89	0.07
IIPIano	60	Max WS	UF_TR200_D3	1.00	344.92	347.10		347.11	0.000427	0.36	0.15		3.25	3.80	0.08
IIPIano	60	Max WS	UF_TR200_D4	1.00	344.92	347.01		347.02	0.000538	0.40	0.14		2.89	3.80	0.09
IIPIano	1	Max WS	UF_TR200_D1	1.00	344.72	347.05		347.05	0.000290	0.31	0.16	0.07	3.93	4.89	0.07
IIPIano	1	Max WS	UF_TR200_D2	0.99	344.72	347.22		347.22	0.000179	0.26	0.15	0.09	4.79	4.89	0.05
IIPIano	1	Max WS	UF_TR200_D3	1.00	344.72	347.10		347.11	0.000249	0.29	0.15	0.08	4.21	4.89	0.06
IIPIano	1	Max WS	UF_TR200_D4	1.00	344.72	347.01		347.01	0.000322	0.32	0.16	0.06	3.75	4.89	0.07

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

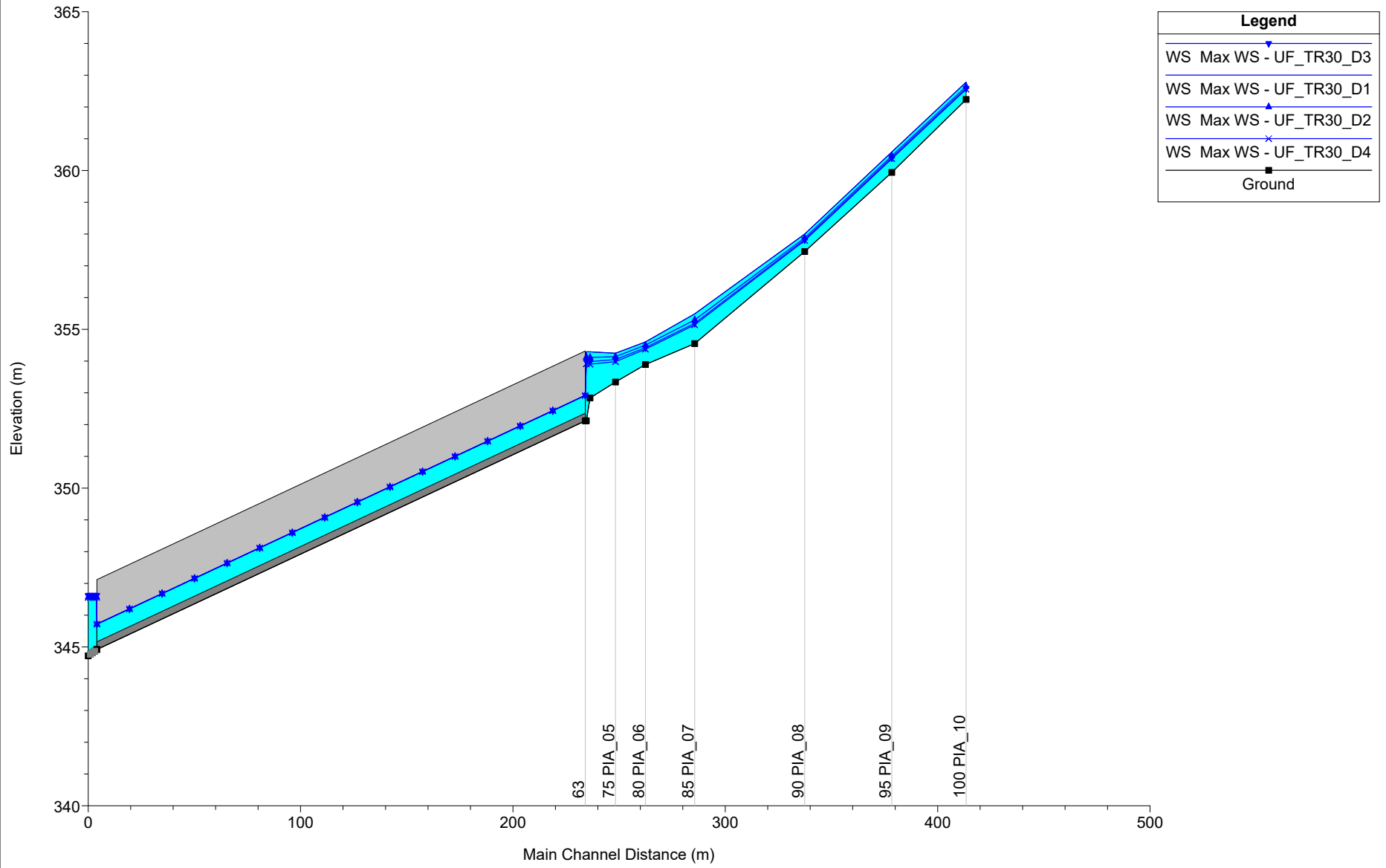
II Piano

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

GAIOLE ABITATO ULTIMO Plan: 1) UF_TR30_D1 12/04/2024 2) UF_TR30_D2 12/04/2024 3) UF_TR30_D3 12/04/2024 4) UF_TR30_D4 12/04/2024



ALLEGATI

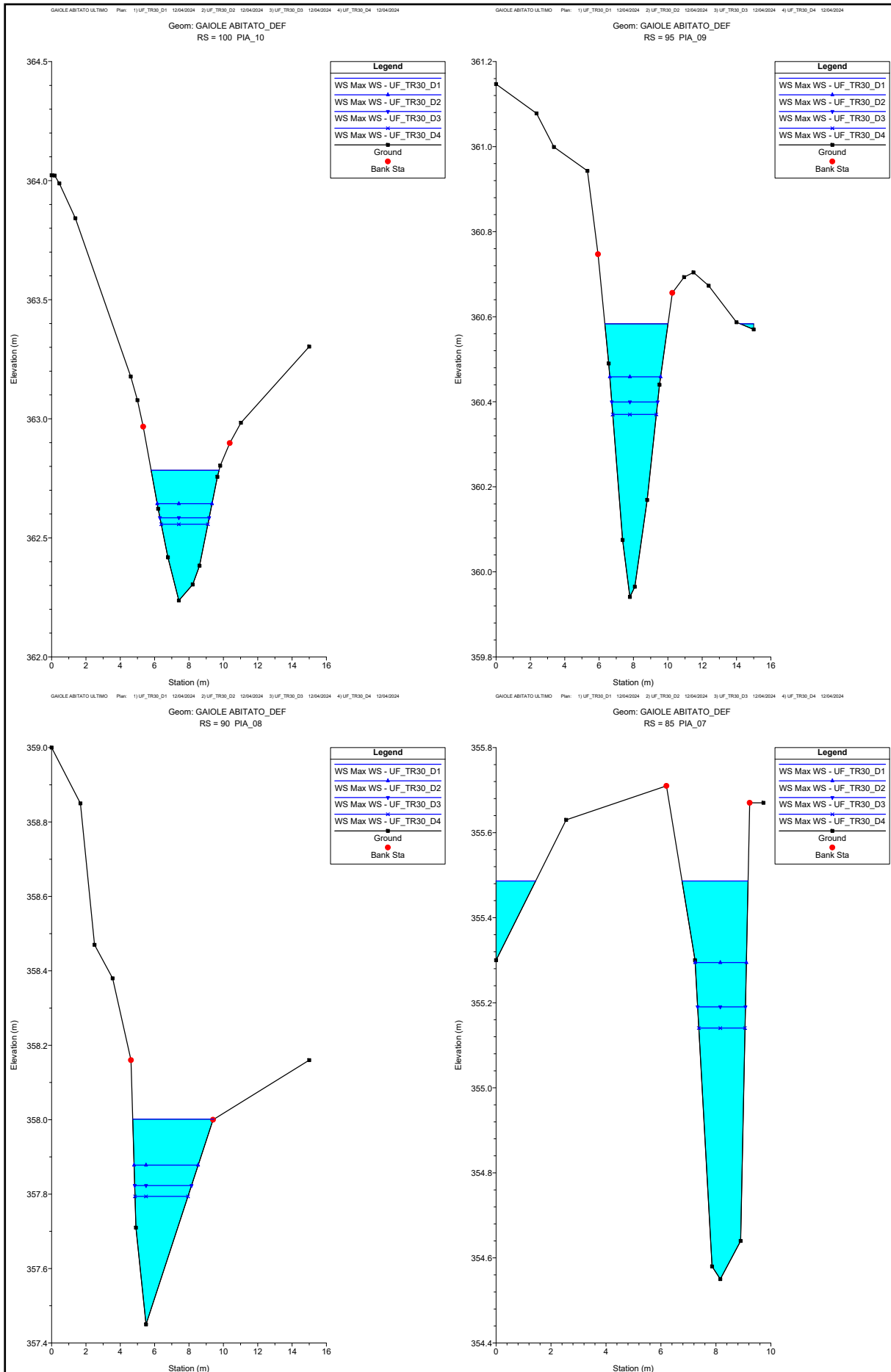
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

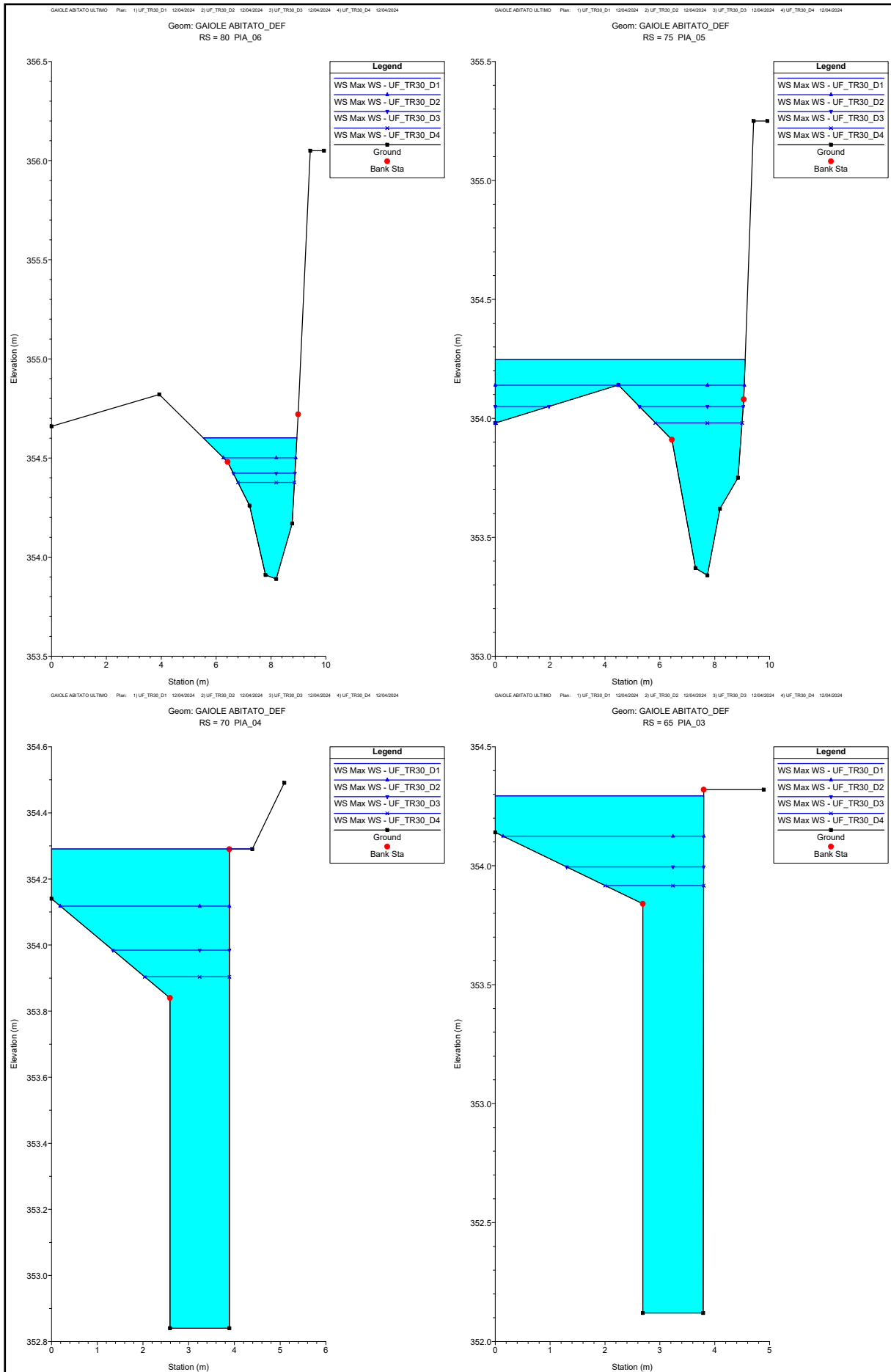
Il Piano

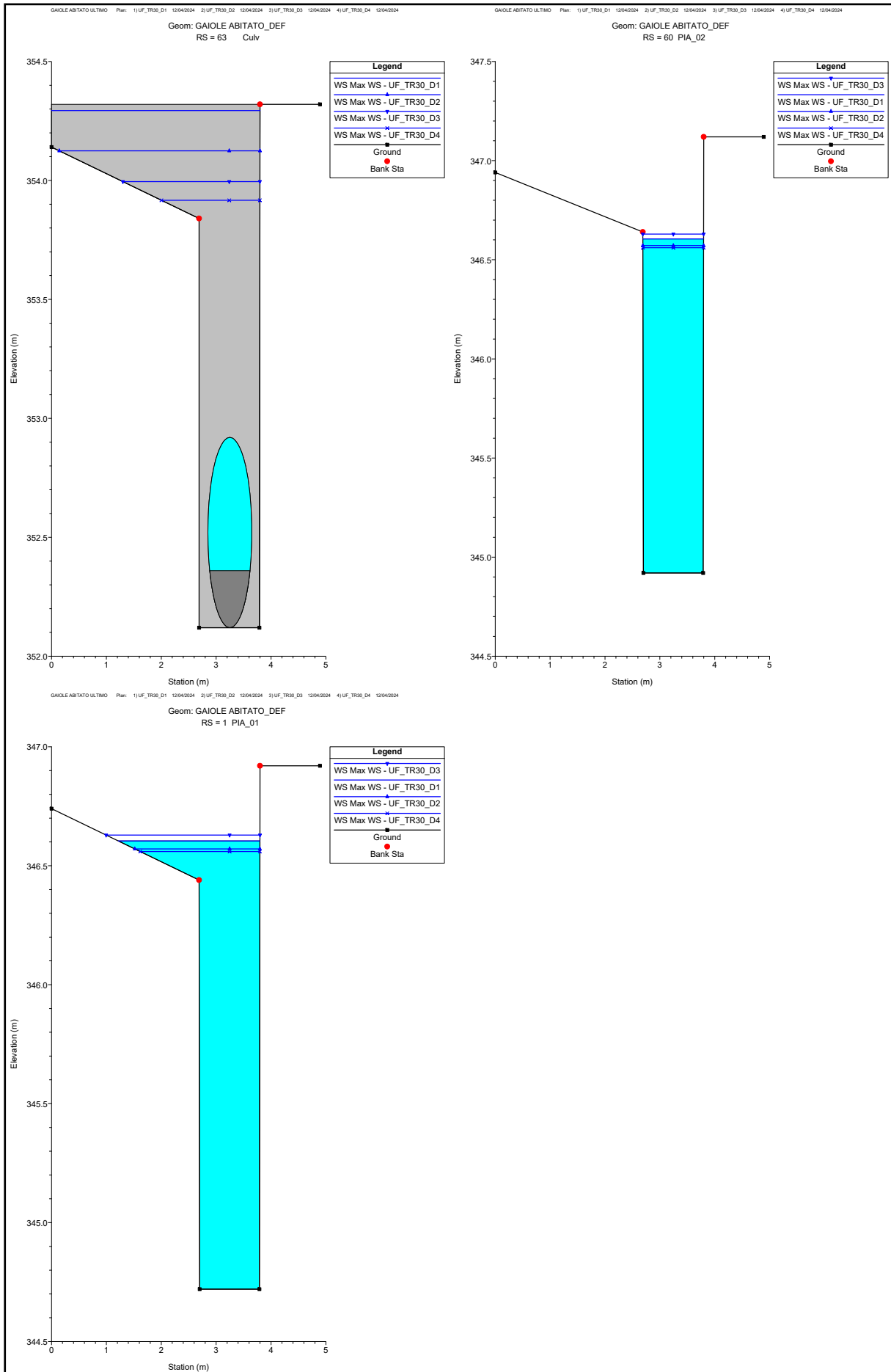
MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

II Piano

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: IIPiano Reach: IIPiano 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	
IIPiano	100	Max WS	UF_TR30_D1	4.36	362.24	362.78	362.97	363.37	0.066381	3.39			1.29	3.96	1.90	
IIPiano	100	Max WS	UF_TR30_D2	2.38	362.24	362.64	362.79	363.11	0.076238	3.03			0.79	3.19	1.95	
IIPiano	100	Max WS	UF_TR30_D3	1.74	362.24	362.58	362.71	363.00	0.082978	2.86			0.61	2.87	1.98	
IIPiano	100	Max WS	UF_TR30_D4	1.44	362.24	362.56	362.67	362.93	0.082187	2.70			0.53	2.72	1.95	
IIPiano	99		Lat Struct													
IIPiano	95	Max WS	UF_TR30_D1	4.36	359.94	360.58	360.79	361.17	0.062077	3.39		0.15	1.29	4.47	1.83	
IIPiano	95	Max WS	UF_TR30_D2	2.38	359.94	360.46	360.59	360.84	0.050438	2.72			0.87	2.96	1.60	
IIPiano	95	Max WS	UF_TR30_D3	1.74	359.94	360.40	360.50	360.71	0.047475	2.46			0.71	2.67	1.53	
IIPiano	95	Max WS	UF_TR30_D4	1.44	359.94	360.37	360.45	360.64	0.044335	2.28			0.63	2.54	1.46	
IIPiano	90	Max WS	UF_TR30_D1	4.36	357.45	358.00	358.19	358.53	0.071139	3.22		0.03	1.35	4.72	1.91	
IIPiano	90	Max WS	UF_TR30_D2	2.38	357.45	357.88	358.01	358.29	0.047161	2.85			0.83	3.73	1.93	
IIPiano	90	Max WS	UF_TR30_D3	1.74	357.45	357.82	357.94	358.20	0.085152	2.71			0.64	3.31	1.97	
IIPiano	90	Max WS	UF_TR30_D4	1.44	357.45	357.79	357.90	358.15	0.089037	2.63			0.55	3.08	1.99	
IIPiano	89.98		Lat Struct													
IIPiano	85	Max WS	UF_TR30_D1	4.19	354.55	355.49	355.60	355.90	0.031758	2.87		0.56	1.57	3.84	1.19	
IIPiano	85	Max WS	UF_TR30_D2	2.38	354.55	355.29	355.29	355.57	0.023750	2.32			1.02	1.86	1.00	
IIPiano	85	Max WS	UF_TR30_D3	1.74	354.55	355.19	355.17	355.41	0.021929	2.08			0.84	1.74	0.96	
IIPiano	85	Max WS	UF_TR30_D4	1.44	354.55	355.14		355.33	0.020095	1.91			0.75	1.68	0.92	
IIPiano	80	Max WS	UF_TR30_D1	3.58	353.89	354.60	354.79	355.10	0.044935	3.15		0.54	1.18	3.41	1.50	
IIPiano	80	Max WS	UF_TR30_D2	2.38	353.89	354.50	354.61	354.88	0.044591	2.72		0.17	0.88	2.64	1.46	
IIPiano	80	Max WS	UF_TR30_D3	1.74	353.89	354.42	354.52	354.75	0.045735	2.52			0.69	2.25	1.45	
IIPiano	80	Max WS	UF_TR30_D4	1.44	353.89	354.38	354.47	354.68	0.046990	2.45			0.59	2.06	1.46	
IIPiano	75	Max WS	UF_TR30_D1	2.88	353.34	354.25		354.33	0.005172	1.39		0.40	0.10	2.99	9.11	0.55
IIPiano	75	Max WS	UF_TR30_D2	2.18	353.34	354.14		354.24	0.006930	1.43		0.28	0.06	1.99	9.05	0.62
IIPiano	75	Max WS	UF_TR30_D3	1.71	353.34	354.05		354.15	0.008600	1.42		0.22		1.33	5.75	0.67
IIPiano	75	Max WS	UF_TR30_D4	1.44	353.34	353.96		354.08	0.010405	1.43		0.18		1.03	3.18	0.73
IIPiano	70	Max WS	UF_TR30_D1	1.32	352.84	354.29		354.31	0.001101	0.60		0.24	0.00	2.66	4.39	0.16
IIPiano	70	Max WS	UF_TR30_D2	1.24	352.84	354.12		354.14	0.001706	0.71		0.18		1.99	3.70	0.20
IIPiano	70	Max WS	UF_TR30_D3	1.18	352.84	353.98		354.02	0.002307	0.78		0.14		1.58	2.55	0.23
IIPiano	70	Max WS	UF_TR30_D4	1.14	352.84	353.90		353.94	0.002731	0.83		0.09		1.40	1.85	0.26
IIPiano	65	Max WS	UF_TR30_D1	1.32	352.12	354.29		354.30	0.000750	0.48		0.20		3.22	3.80	0.10
IIPiano	65	Max WS	UF_TR30_D2	1.24	352.12	354.12		354.14	0.000991	0.54		0.14		2.58	3.66	0.12
IIPiano	65	Max WS	UF_TR30_D3	1.18	352.12	354.00		354.01	0.001161	0.56		0.10		2.18	2.50	0.13
IIPiano	65	Max WS	UF_TR30_D4	1.14	352.12	353.92		353.93	0.001251	0.58		0.07		2.01	1.80	0.14
IIPiano	63		Culvert													
IIPiano	60	Max WS	UF_TR30_D1	1.00	344.92	346.60		346.62	0.001154	0.54				1.85	1.11	0.13
IIPiano	60	Max WS	UF_TR30_D2	1.00	344.92	346.57		346.59	0.001210	0.55				1.81	1.11	0.14
IIPiano	60	Max WS	UF_TR30_D3	1.00	344.92	346.63		346.64	0.001116	0.53				1.88	1.11	0.13
IIPiano	60	Max WS	UF_TR30_D4	1.00	344.92	346.56		346.58	0.001227	0.55				1.80	1.11	0.14
IIPiano	1	Max WS	UF_TR30_D1	1.00	344.72	346.60		346.62	0.000830	0.48		0.09		2.19	2.58	0.11
IIPiano	1	Max WS	UF_TR30_D2	1.00	344.72	346.57		346.58	0.000882	0.49		0.08		2.11	2.28	0.12
IIPiano	1	Max WS	UF_TR30_D3	1.00	344.72	346.63		346.64	0.000793	0.47		0.10		2.26	2.80	0.11
IIPiano	1	Max WS	UF_TR30_D4	1.00	344.72	346.56		346.57	0.000898	0.49		0.08		2.09	2.18	0.12

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 551

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

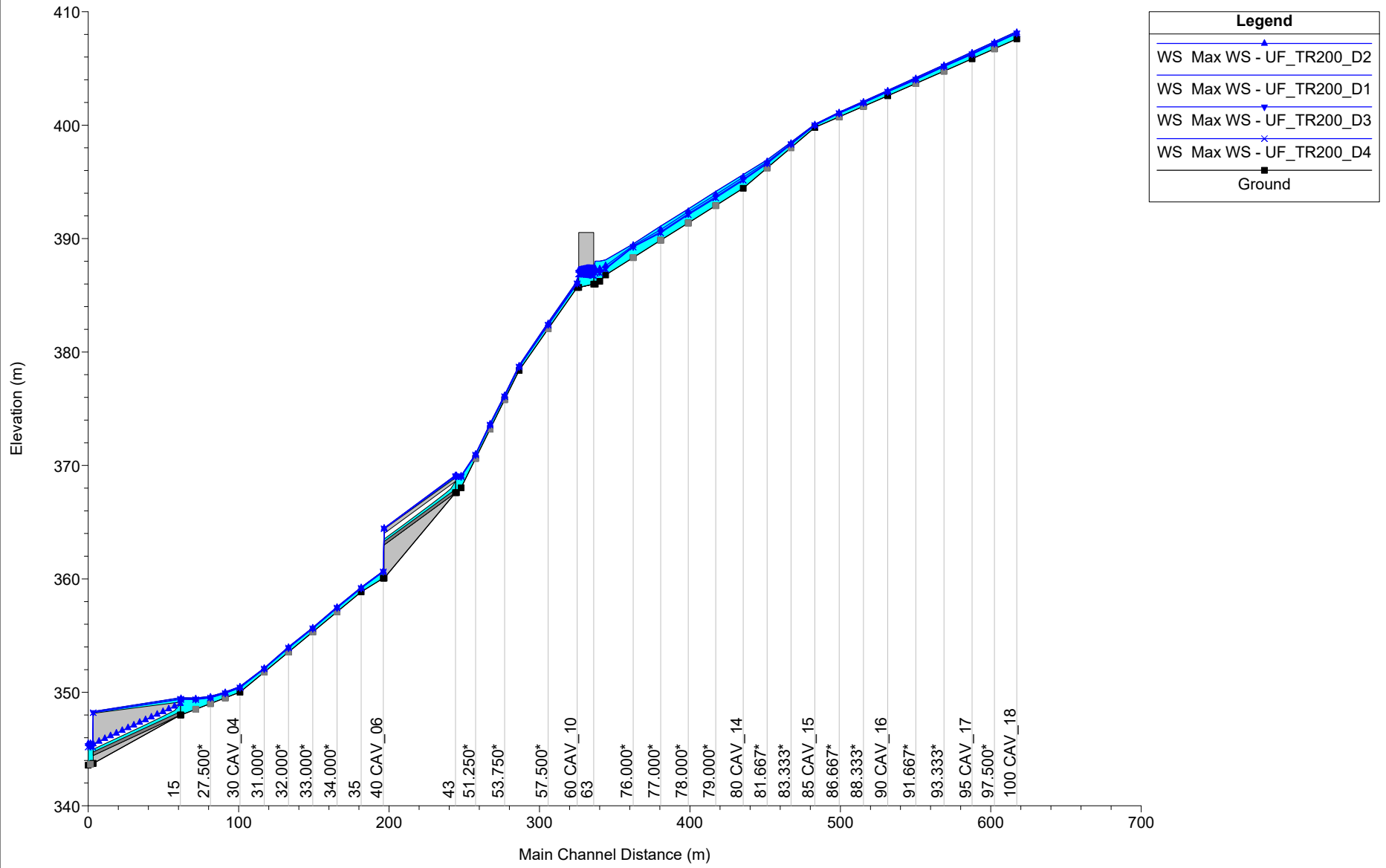
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 551

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

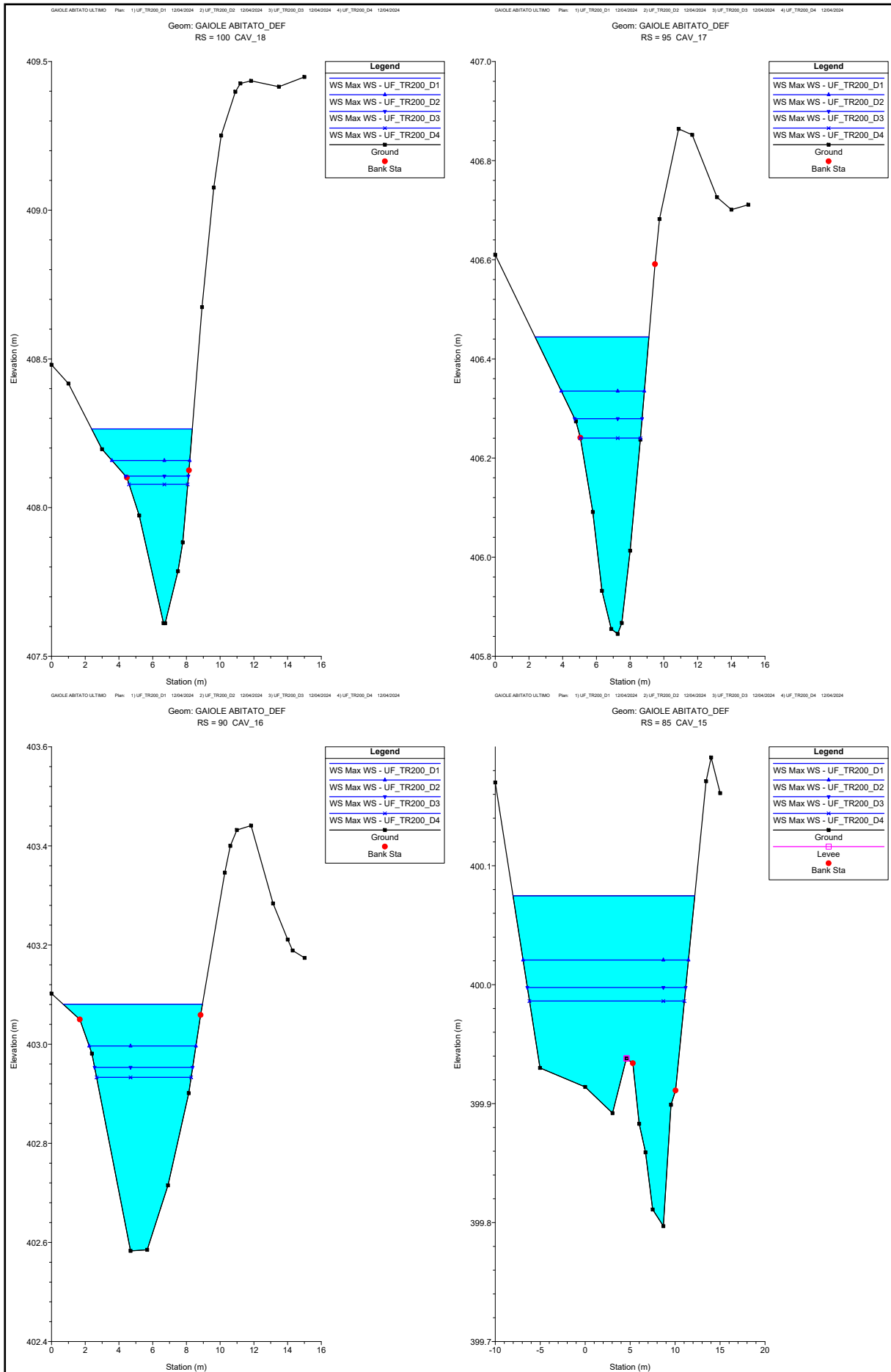
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

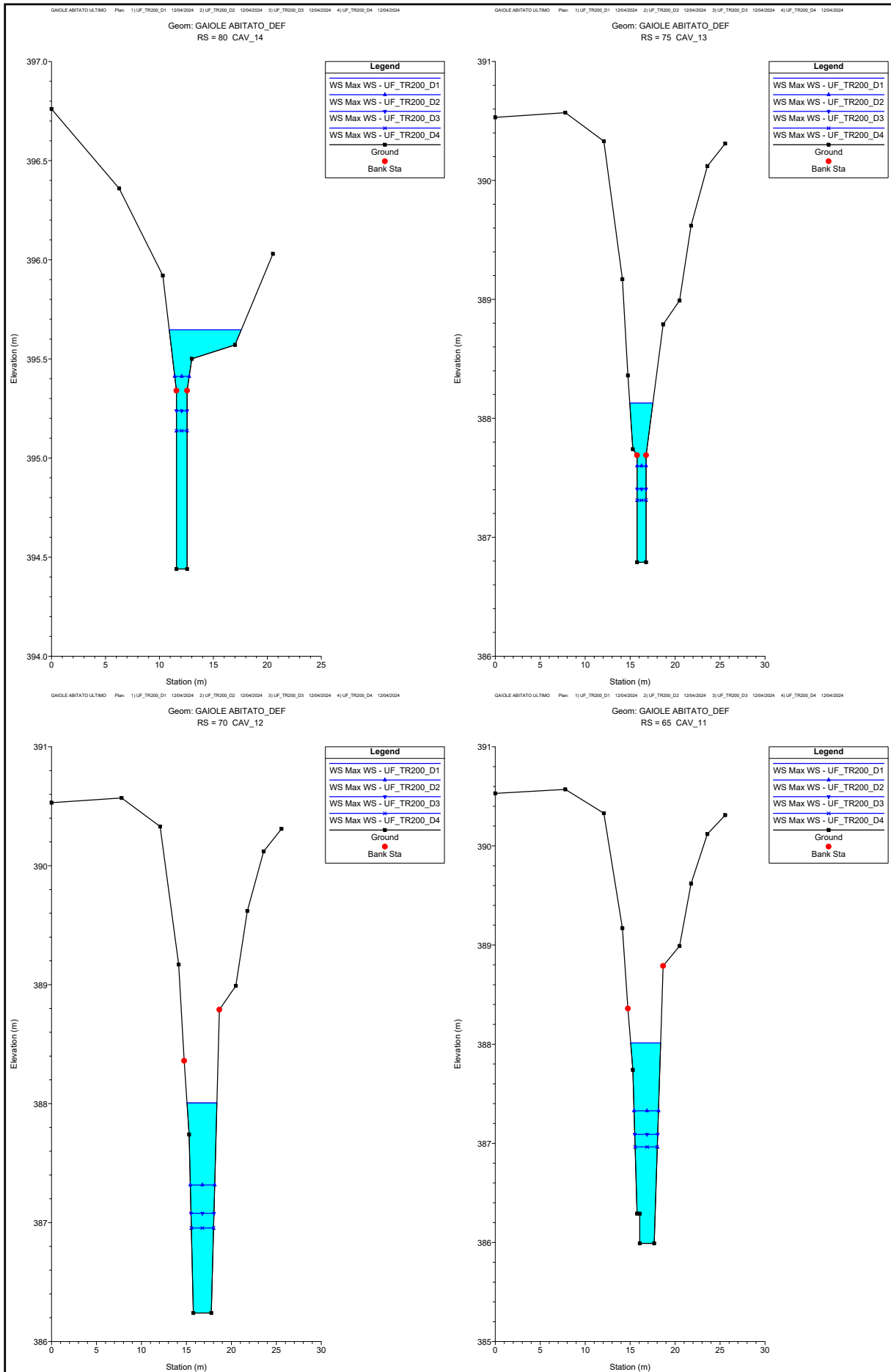
TS 551

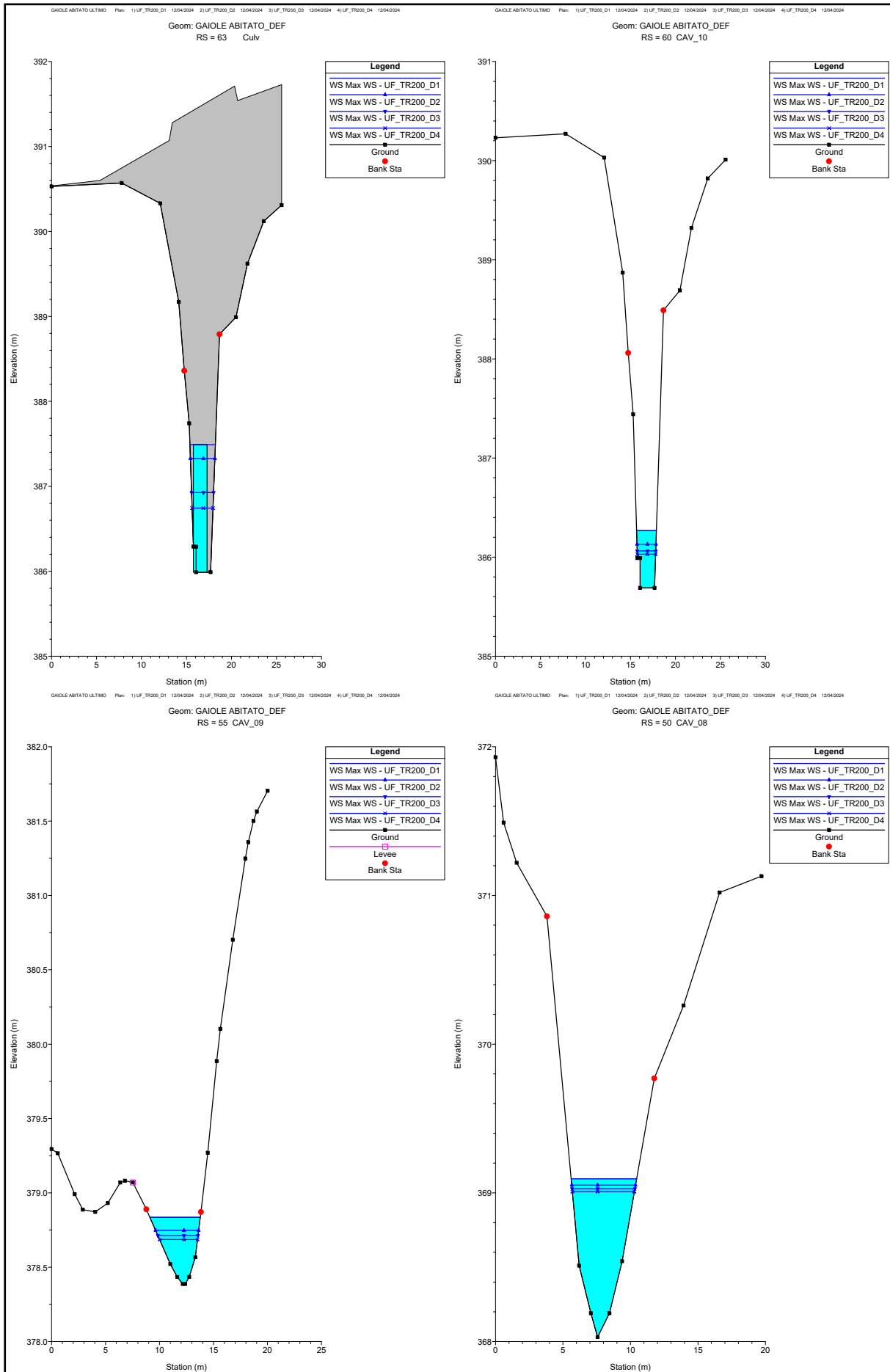
MODELLAZIONE PER TR= 200 anni

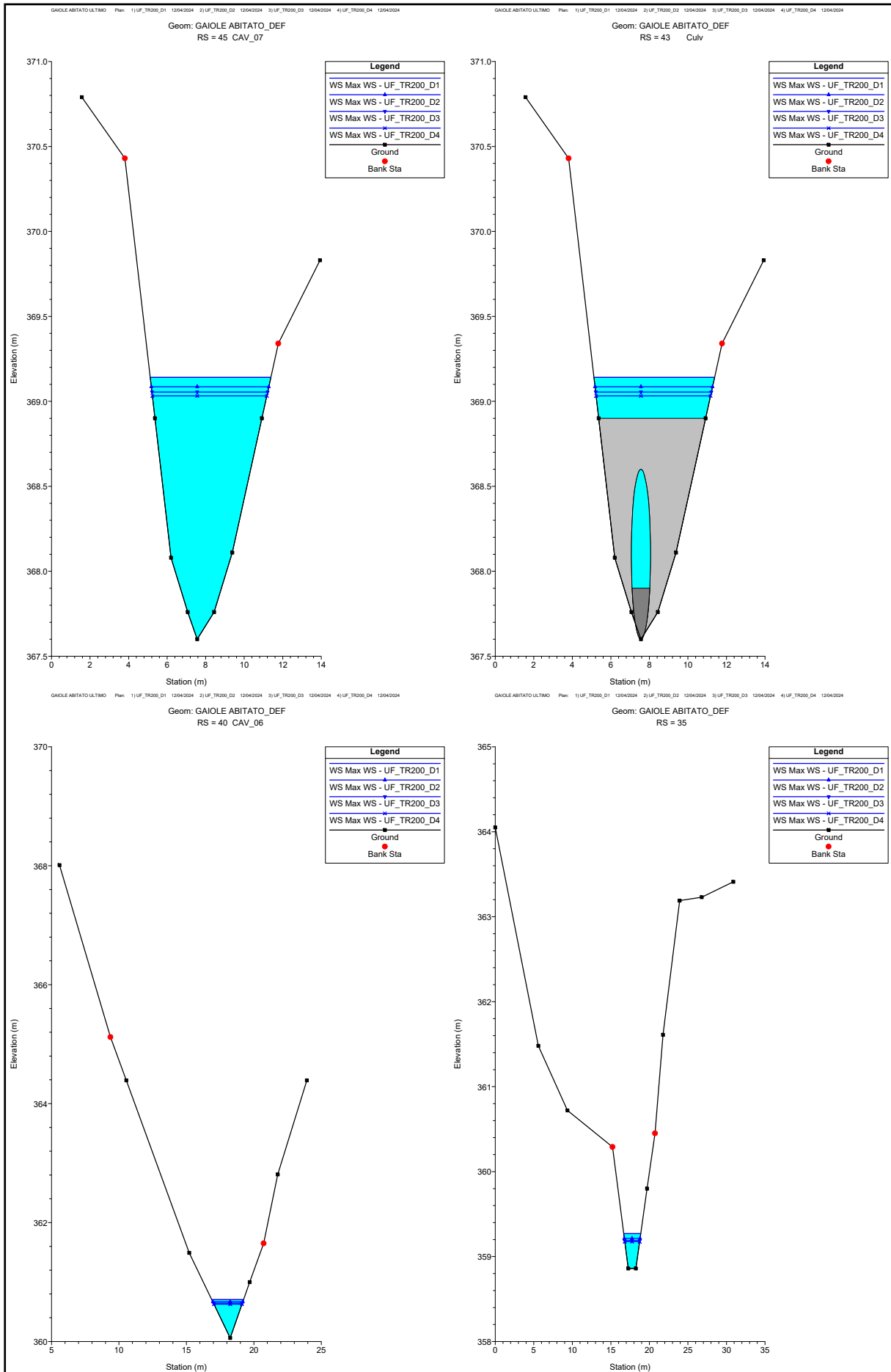
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

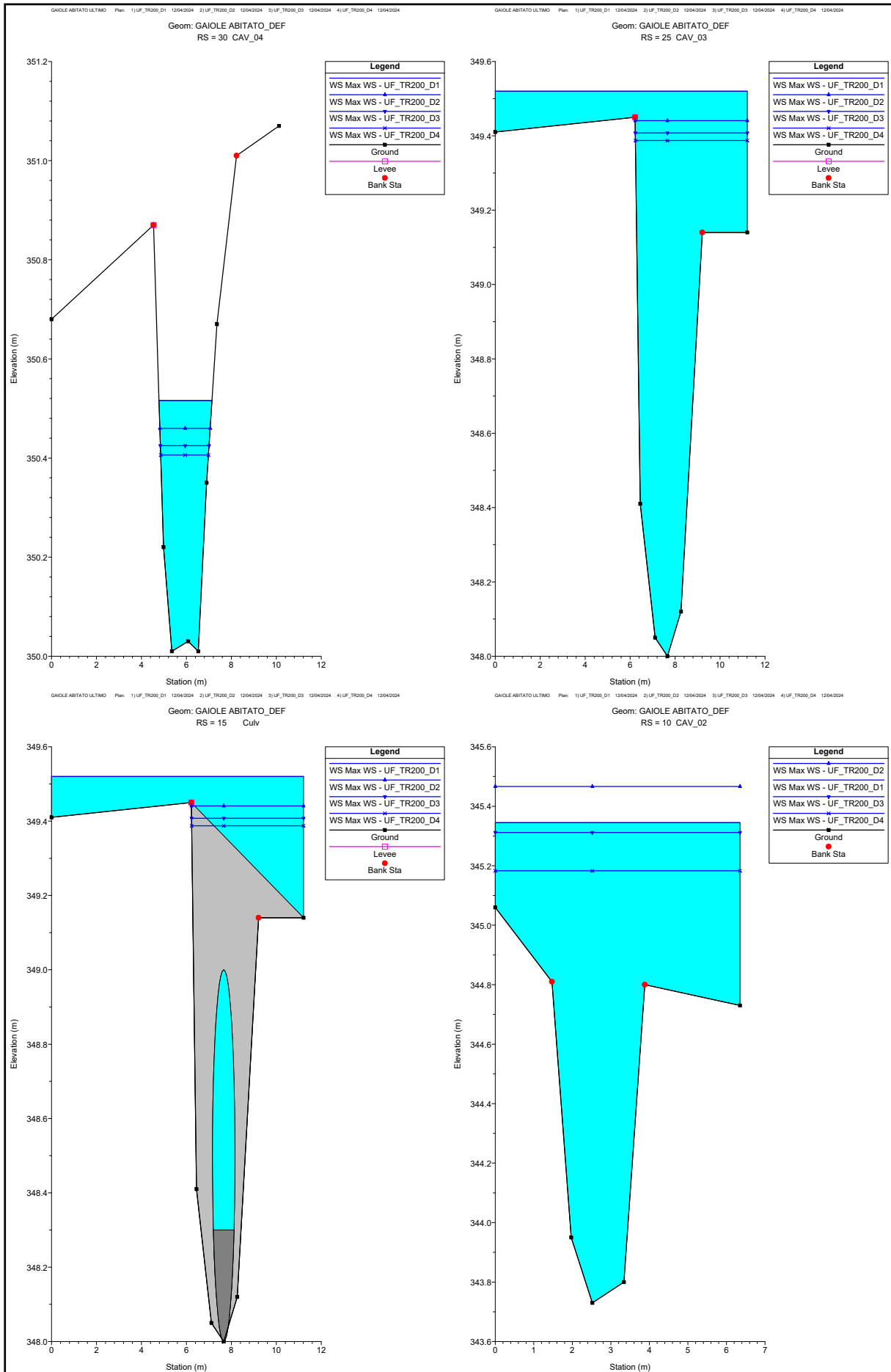
Sezioni Trasversali (da monte verso valle)



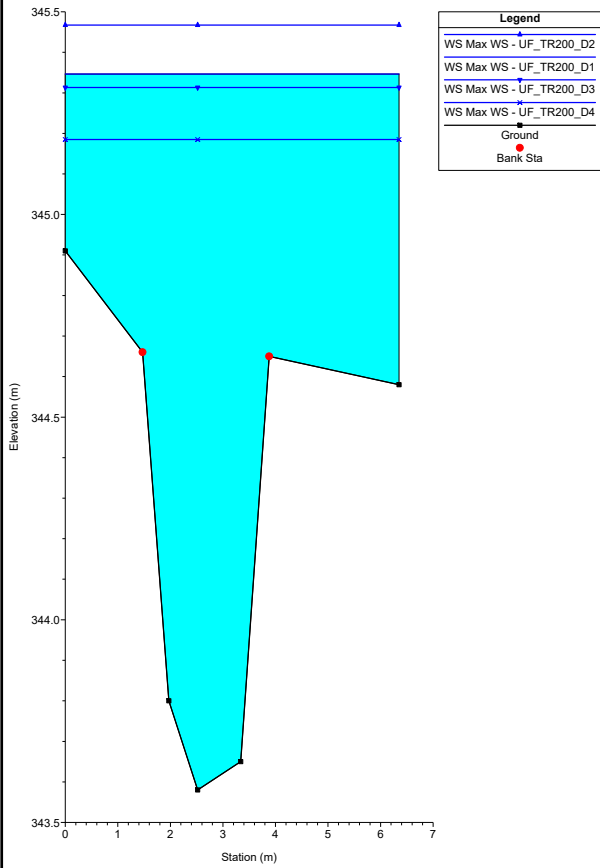








Geom: GAIOLE ABITATO_DEF
RS = 1 CAV_01



ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 551

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: TS551 Reach: TS551 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
TS551	100	Max WS	UF_TR200_D1	6.38	407.61	408.26	408.52	409.05	0.064866	3.98	0.86	0.63	1.76	5.97	1.96
TS551	100	Max WS	UF_TR200_D2	3.97	407.61	408.16	408.34	408.74	0.069079	3.39	0.41	0.25	1.19	4.62	1.92
TS551	100	Max WS	UF_TR200_D3	2.99	407.61	408.11	408.26	408.59	0.071299	3.07	0.08		0.97	3.73	1.90
TS551	100	Max WS	UF_TR200_D4	2.51	407.61	408.08	408.21	408.50	0.067065	2.87			0.88	3.48	1.83
TS551	95	Max WS	UF_TR200_D1	6.38	405.84	406.44	406.67	407.17	0.064741	3.83	0.88		1.86	6.75	1.94
TS551	95	Max WS	UF_TR200_D2	3.97	405.84	406.34	406.52	406.90	0.068070	3.35	0.52		1.23	4.93	1.92
TS551	95	Max WS	UF_TR200_D3	2.99	405.84	406.28	406.44	406.76	0.070838	3.08	0.30		0.98	4.00	1.91
TS551	95	Max WS	UF_TR200_D4	2.51	405.84	406.24	406.39	406.71	0.081084	3.02			0.83	3.56	2.00
TS551	90	Max WS	UF_TR200_D1	6.38	402.58	403.08	403.22	403.52	0.053504	2.95	0.24	0.19	2.18	8.26	1.72
TS551	90	Max WS	UF_TR200_D2	3.97	402.58	403.00	403.10	403.32	0.049938	2.51			1.58	6.33	1.61
TS551	90	Max WS	UF_TR200_D3	2.99	402.58	402.95	403.04	403.22	0.046121	2.27			1.32	5.82	1.52
TS551	90	Max WS	UF_TR200_D4	2.51	402.58	402.93	403.00	403.15	0.041963	2.08			1.20	5.61	1.44
TS551	85	Max WS	UF_TR200_D1	6.38	399.80	400.07	400.19	400.44	0.103573	3.36	1.44	1.01	3.08	20.21	2.28
TS551	85	Max WS	UF_TR200_D2	3.97	399.80	400.02	400.11	400.35	0.127247	3.09	1.24	0.86	2.04	18.39	2.41
TS551	85	Max WS	UF_TR200_D3	2.99	399.80	400.00	400.08	400.30	0.135679	2.89	1.10	0.76	1.62	17.61	2.43
TS551	85	Max WS	UF_TR200_D4	2.51	399.80	399.99	400.06	400.27	0.135650	2.74	1.00	0.69	1.42	17.23	2.40
TS551	80	Max WS	UF_TR200_D1	6.38	394.44	395.65	395.92	396.63	0.081625	4.66	1.28	1.11	1.87	6.68	1.35
TS551	80	Max WS	UF_TR200_D2	3.97	394.44	395.41	395.77	396.26	0.083551	4.08	0.49	0.50	0.98	1.35	1.32
TS551	80	Max WS	UF_TR200_D3	2.99	394.44	395.24	395.45	395.95	0.082791	3.74			0.80	1.00	1.34
TS551	80	Max WS	UF_TR200_D4	2.51	394.44	395.14	395.30	395.80	0.082087	3.60			0.70	1.00	1.38
TS551	75	Max WS	UF_TR200_D1	6.38	386.79	388.13	388.41	388.98	0.059792	4.27	1.67	1.35	1.77	2.57	1.18
TS551	75	Max WS	UF_TR200_D2	3.97	386.79	387.60	388.06	388.82	0.140486	4.90			0.81	1.00	1.74
TS551	75	Max WS	UF_TR200_D3	2.99	386.79	387.41	387.84	388.61	0.160737	4.86			0.62	1.00	1.98
TS551	75	Max WS	UF_TR200_D4	2.51	386.79	387.31	387.64	388.49	0.175126	4.81			0.52	1.00	2.13
TS551	70	Max WS	UF_TR200_D1	6.38	386.24	388.01	388.10	388.27	0.003227	1.39			4.59	3.33	0.38
TS551	70	Max WS	UF_TR200_D2	3.97	386.24	387.32	387.44	387.44	0.005995	1.56			2.54	2.72	0.52
TS551	70	Max WS	UF_TR200_D3	2.99	386.24	387.08	387.20	387.20	0.007434	1.57			1.91	2.58	0.58
TS551	70	Max WS	UF_TR200_D4	2.51	386.24	386.95	387.08	387.08	0.008596	1.57			1.60	2.48	0.62
TS551	65	Max WS	UF_TR200_D1	6.38	385.99	388.01	388.09	388.09	0.002682	1.28			5.00	3.34	0.33
TS551	65	Max WS	UF_TR200_D2	3.97	385.99	387.33	387.42	387.42	0.004111	1.34			2.96	2.72	0.41
TS551	65	Max WS	UF_TR200_D3	2.99	385.99	387.09	387.17	387.17	0.004457	1.28			2.33	2.56	0.43
TS551	65	Max WS	UF_TR200_D4	2.51	385.99	386.96	387.04	387.04	0.004683	1.25			2.01	2.47	0.44
TS551	63														
TS551	60	Max WS	UF_TR200_D1	6.38	385.69	386.27	386.73	388.03	0.172339	5.87			1.09	2.21	2.67
TS551	60	Max WS	UF_TR200_D2	3.97	385.69	386.13	386.47	387.42	0.170345	5.04			0.79	2.11	2.63
TS551	60	Max WS	UF_TR200_D3	2.99	385.69	386.06	386.35	387.15	0.173731	4.62			0.65	2.07	2.63
TS551	60	Max WS	UF_TR200_D4	2.51	385.69	386.03	386.28	386.99	0.171366	4.33			0.58	2.04	2.60
TS551	55	Max WS	UF_TR200_D1	6.38	378.39	378.84	379.15	380.15	0.188622	5.08			1.26	4.67	3.13
TS551	55	Max WS	UF_TR200_D2	3.97	378.39	378.75	378.99	379.79	0.195655	4.53			0.88	3.99	3.09
TS551	55	Max WS	UF_TR200_D3	2.99	378.39	378.71	378.92	379.54	0.177107	4.04			0.74	3.72	2.89
TS551	55	Max WS	UF_TR200_D4	2.51	378.39	378.69	378.88	379.46	0.184319	3.90			0.64	3.51	2.91
TS551	53.6		Lat Struct												
TS551	53.5		Lat Struct												
TS551	50	Max WS	UF_TR200_D1	3.33	368.03	369.09	369.15	369.15	0.002777	1.05			3.16	4.85	0.42
TS551	50	Max WS	UF_TR200_D2	2.68	368.03	369.05	369.09	369.09	0.002162	0.91			2.95	4.73	0.37
TS551	50	Max WS	UF_TR200_D3	2.34	368.03	369.03	369.06	369.06	0.001846	0.83			2.84	4.65	0.34
TS551	50	Max WS	UF_TR200_D4	2.13	368.03	369.01	369.04	369.04	0.001658	0.77			2.75	4.60	0.30
TS551	45	Max WS	UF_TR200_D1	2.52	367.60	369.14	369.15	369.15	0.000303	0.43			5.80	6.26	0.14
TS551	45	Max WS	UF_TR200_D2	2.10	367.60	369.09	369.09	369.09	0.000248	0.38			5.46	6.10	0.13
TS551	45	Max WS	UF_TR200_D3	1.88	367.60	369.05	369.06	369.06	0.000219	0.36			5.27	6.01	0.12
TS551	45	Max WS	UF_TR200_D4	1.75	367.60	369.03	369.04	369.04	0.000203	0.34			5.14	5.94	0.12
TS551	43		Culvert												
TS551	40	Max WS	UF_TR200_D1	2.52	360.06	360.70	360.89	361.27	0.073152	3.32			0.76	2.36	1.87
TS551	40	Max WS	UF_TR200_D2	2.10	360.06	360.67	360.83	361.16	0.068537	3.10			0.68	2.23	1.79
TS551	40	Max WS	UF_TR200_D3	1.88	360.06	360.64	360.79	361.11	0.068349	3.01			0.63	2.14	1.78
TS551	40	Max WS	UF_TR200_D4	1.75	360.06	360.63	360.77	361.08	0.069265	2.97			0.59	2.08	1.78
TS551	39.9		Lat Struct												
TS551	39.8		Lat Struct												
TS551	35	Max WS	UF_TR200_D1	2.84	358.86	359.27	359.53	360.22	0.132809	4.32			0.66	2.21	2.53
TS551	35	Max WS	UF_TR200_D2	2.19	358.86	359.21	359.45	360.05	0.136967	4.06			0.54	2.05	2.53
TS551	35	Max WS	UF_TR200_D3	1.90	358.86	359.19	359.40	359.96	0.134910	3.88			0.49	1.97	2.49
TS551	35	Max WS	UF_TR200_D4	1.75	358.86	359.18	359.38	359.90	0.133575	3.78			0.46	1.93	2.47
TS551	30	Max WS	UF_TR200_D1	2.73	350.01	350.52	350.66	350.98	0.048897	3.01			0.91	2.36	1.55
TS551	30	Max WS	UF_TR200_D2	2.17	350.01	350.46	350.58	350.86	0.047177	2.78			0.78	2.24	1.51
TS551	30	Max WS	UF_TR200_D3	1.90	350.01	350.42	350.54	350.80	0.048399	2.70			0.70	2.17	1.52
TS551	30	Max WS	UF_TR200_D4	1.75	350.01	350.41	350.51	350.76	0.048830	2.65			0.66	2.13	1.52
TS551	29.9		Lat Struct												
TS551	29.8		Lat Struct												
TS551	25	Max WS	UF_TR200_D1	2.59	348.00	349.52	349.54	349.54	0.000741	0.67	0.09	0.21	4.85	11.21	0.20
TS551	25	Max WS	UF_TR200_D2	1.85	348.00	349.44	349.45	349.45	0.000510	0.53		0.15	3.89	4.99	0.16
TS551	25	Max WS	UF_TR200_D3	1.68	348.00	349.41	349.42	349.42	0.000462	0.50		0.14	3.73	4.98	0.15
TS551	25	Max WS	UF_TR200_D4	1.59	348.00	349.39	349.40	349.40	0.000446	0.49		0.13	3.63	4.98	0.15
TS551	15		Culvert												
TS551	10	Max WS	UF_TR200_D1	1.75	343.73	345.35	345.35	345.35	0.000287	0.45	0.14	0.17	5.21	6.35	0.13
TS551	10	Max WS	UF_TR200_D2	1.61	343.73	345.47	345.47	345.47	0.000213	0.41	0.13	0.16	5.98	6.35	0.11
TS551	10	Max WS	UF_TR200_D3	1.66	343.73	345.31	345.32	345.32	0.000288	0.44	0.13	0.16	4.99	6.35	0.12
TS551	10	Max WS	UF_TR200_D4	1.59	343.73	345.18	345.19	345.19	0.000411	0.49	0.13	0.17	4.18	6.35	0.15
TS551	1	Max WS	UF_TR200_D1	1.75	343.58	345.35	345.35	345.35	0.000184	0.39	0.13	0.15	6.17	6.35	0.10
TS551	1	Max WS	UF_TR200_D2	1.80	343.58	345.47	345.47	345.47	0.000142	0.36	0.12	0.15	6.93	6.35	0.09
TS551	1	Max WS	UF_TR200_D3	1.66	343.58	345.31	345.32	345.32	0.000182	0.38	0.12	0.15	5.96	6.35	0.10
TS551	1	Max WS	UF_TR200_D4	1.59	343.58	345.18	345.19	345.19	0.000245	0.41	0.13	0.15	5.14	6.35	0.12

ALLEGATI

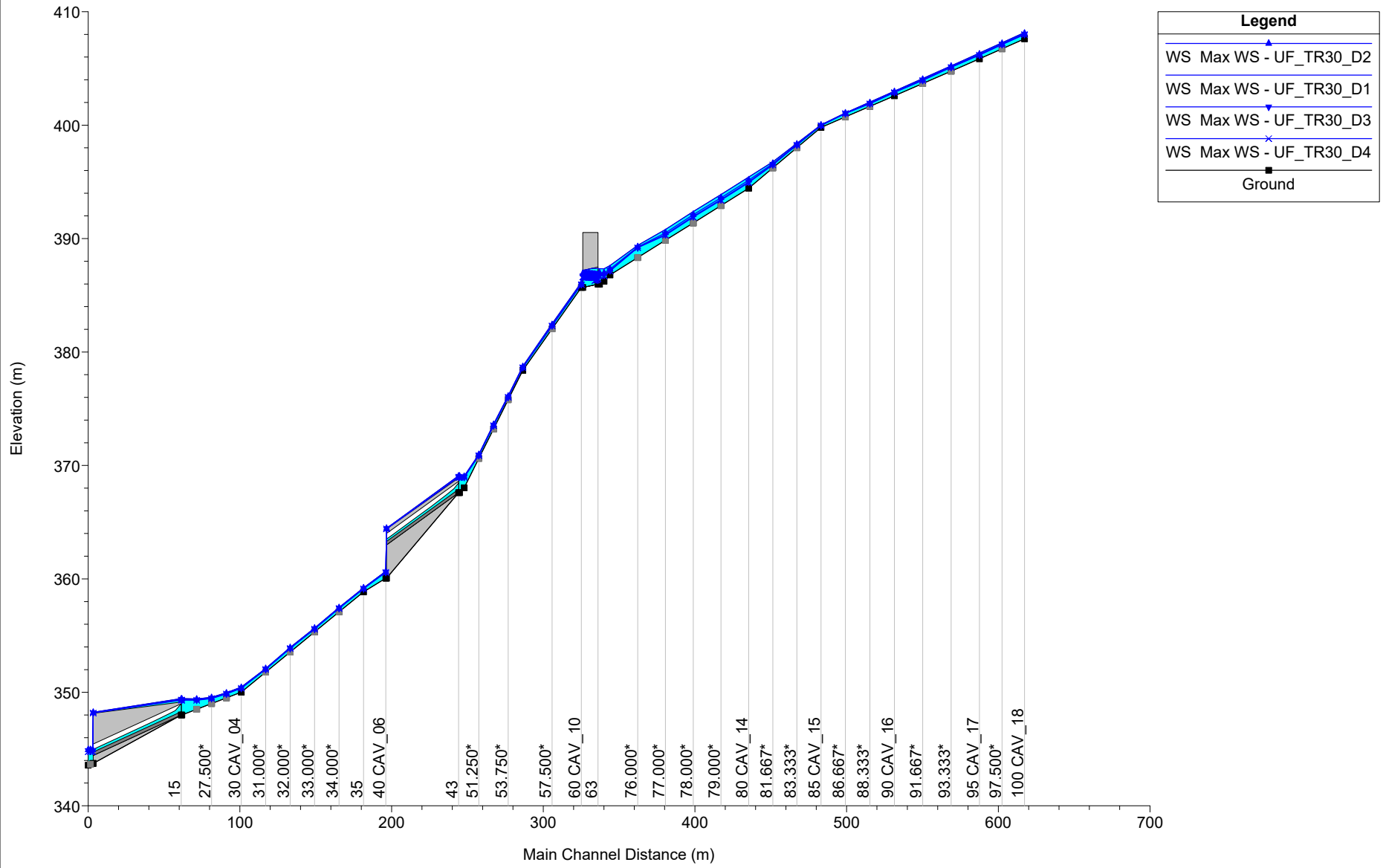
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 551

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

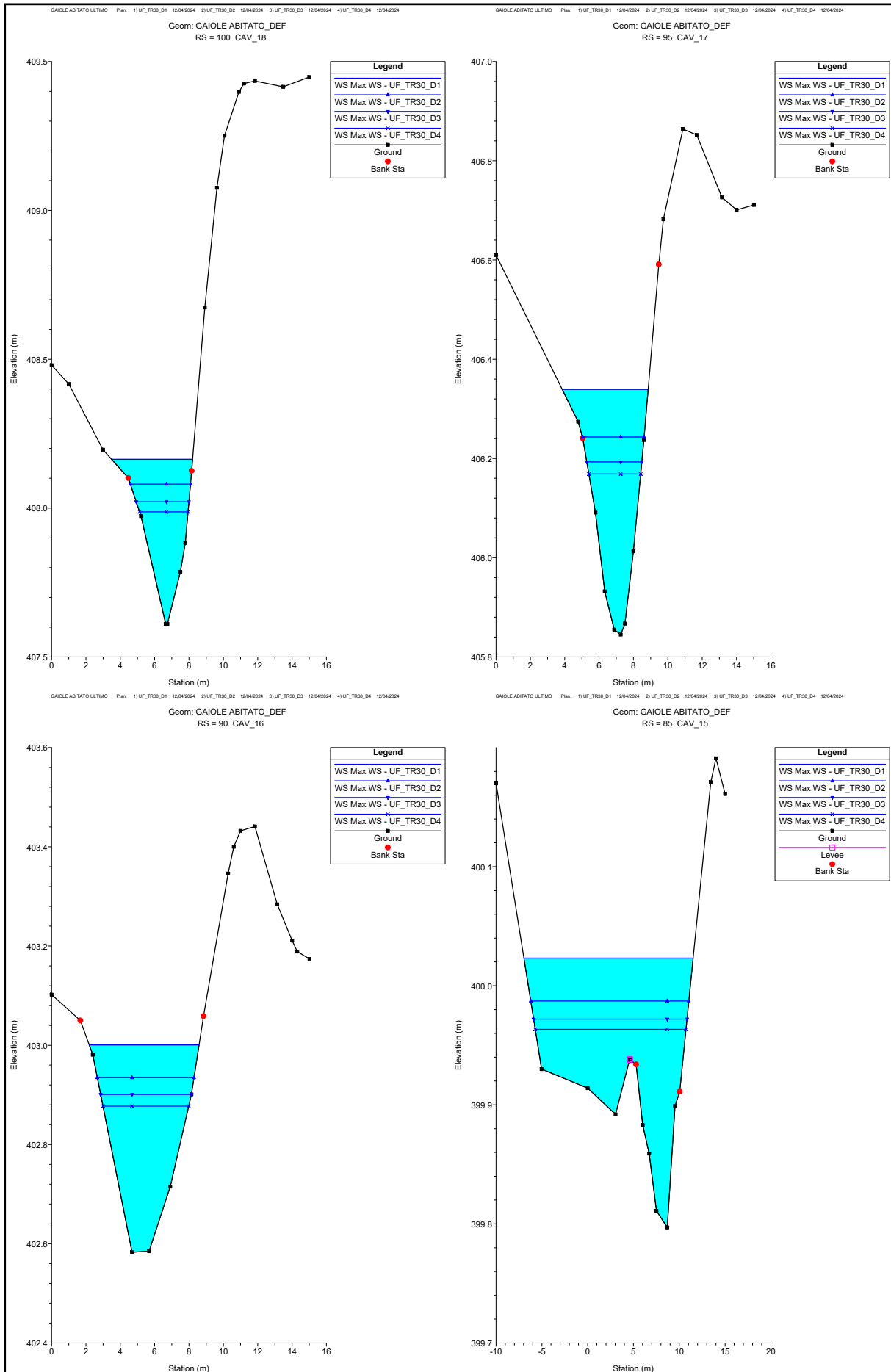
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

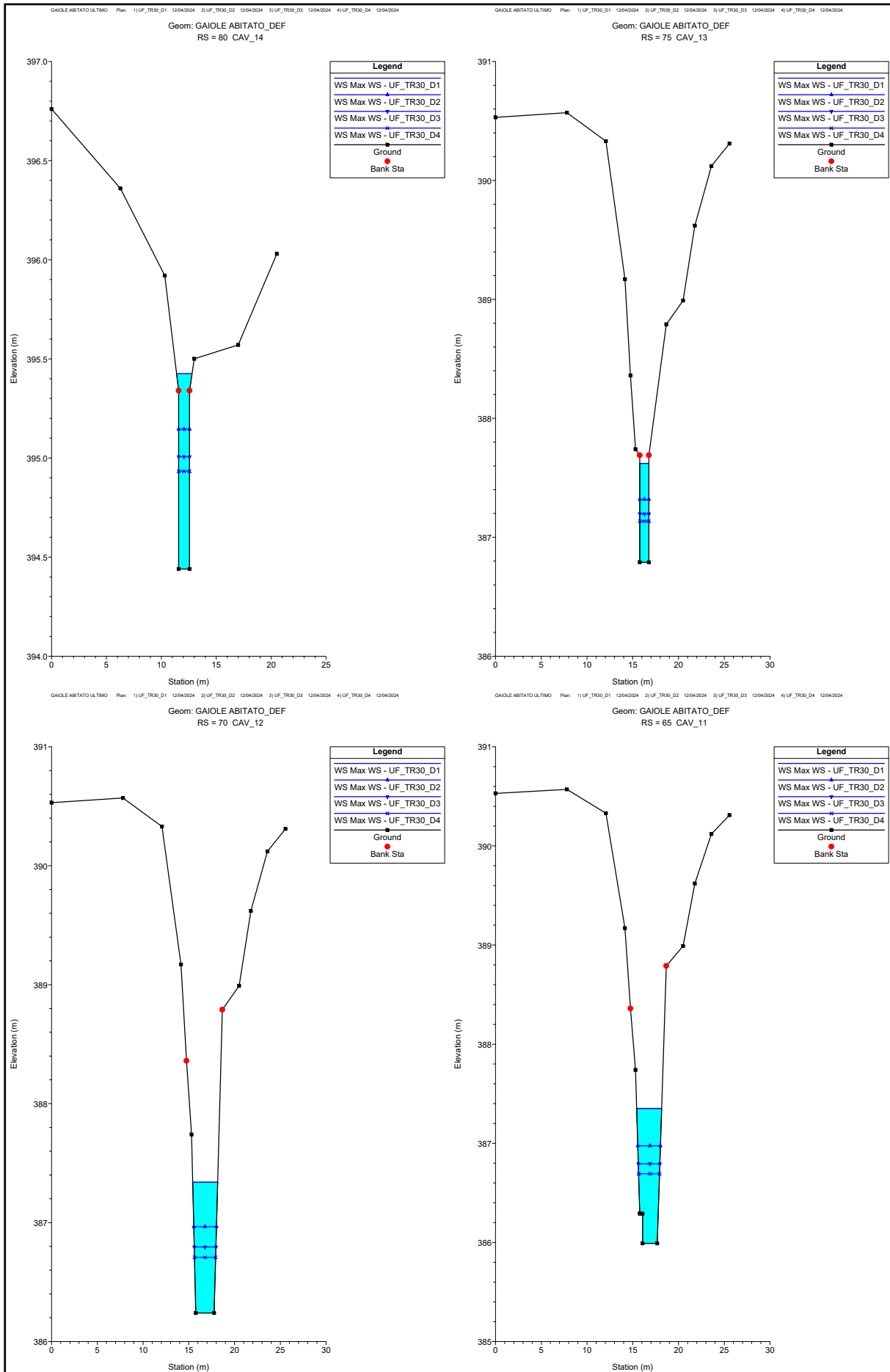
TS 551

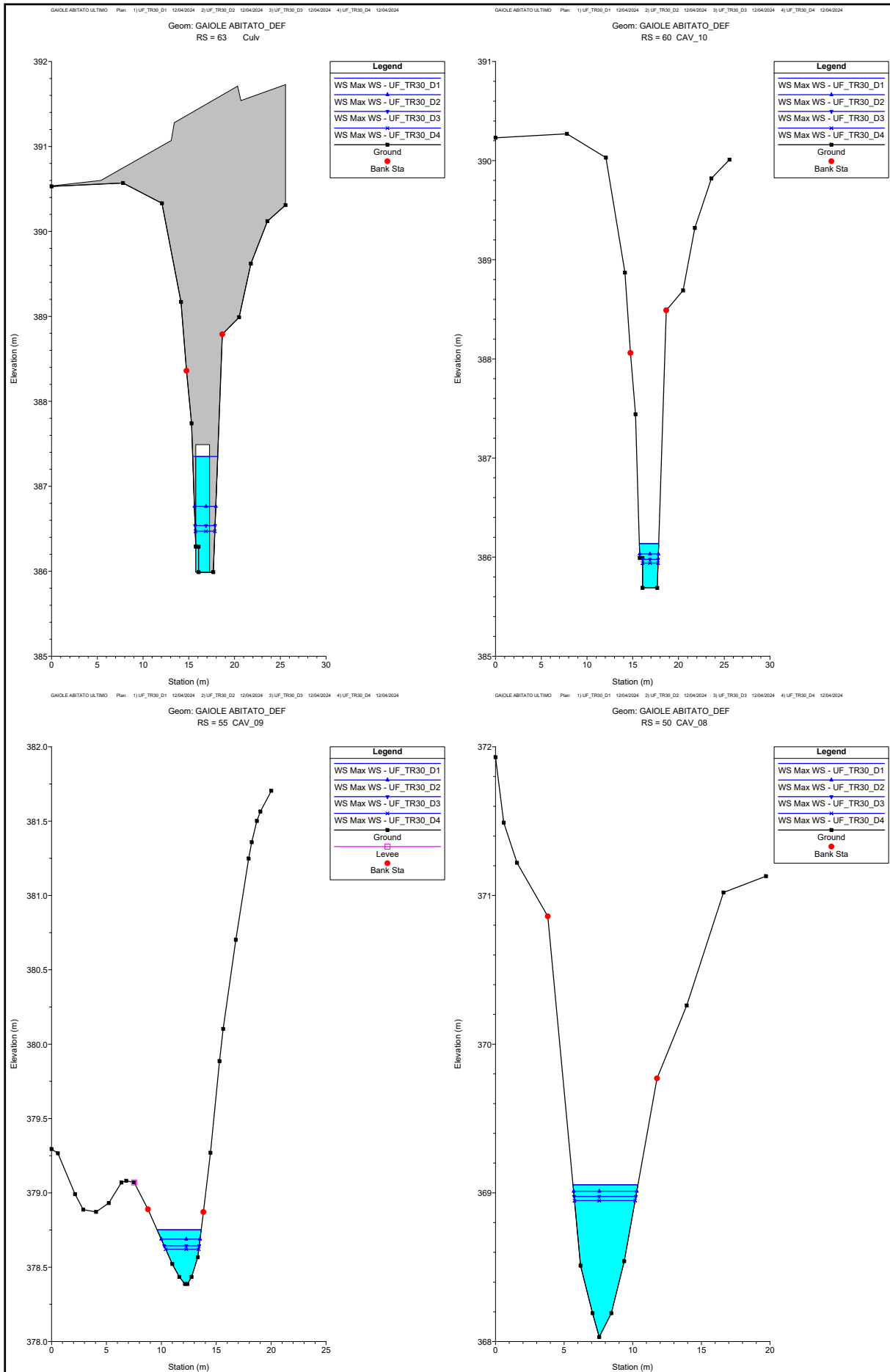
MODELLAZIONE PER TR= 30 anni

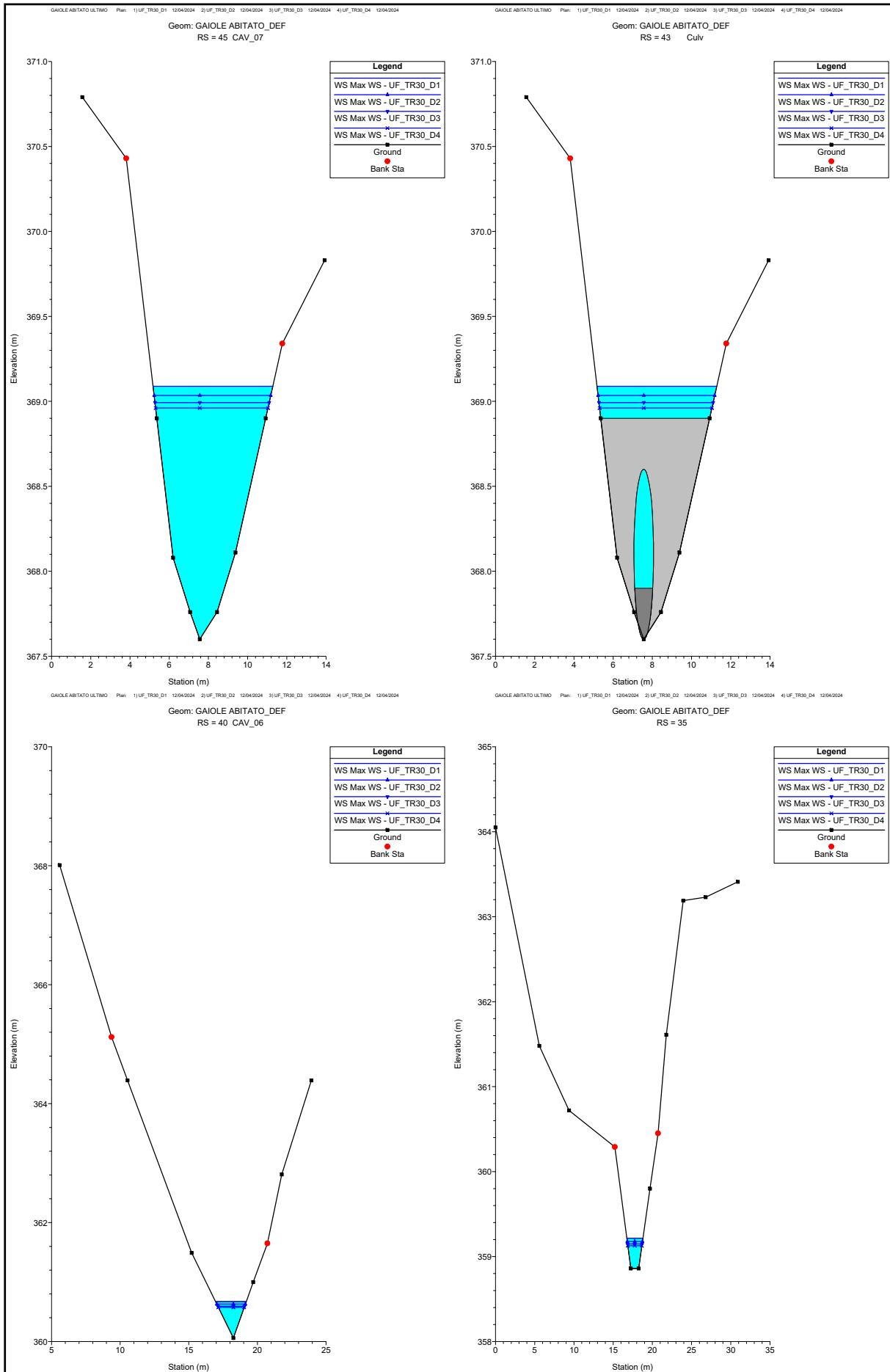
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

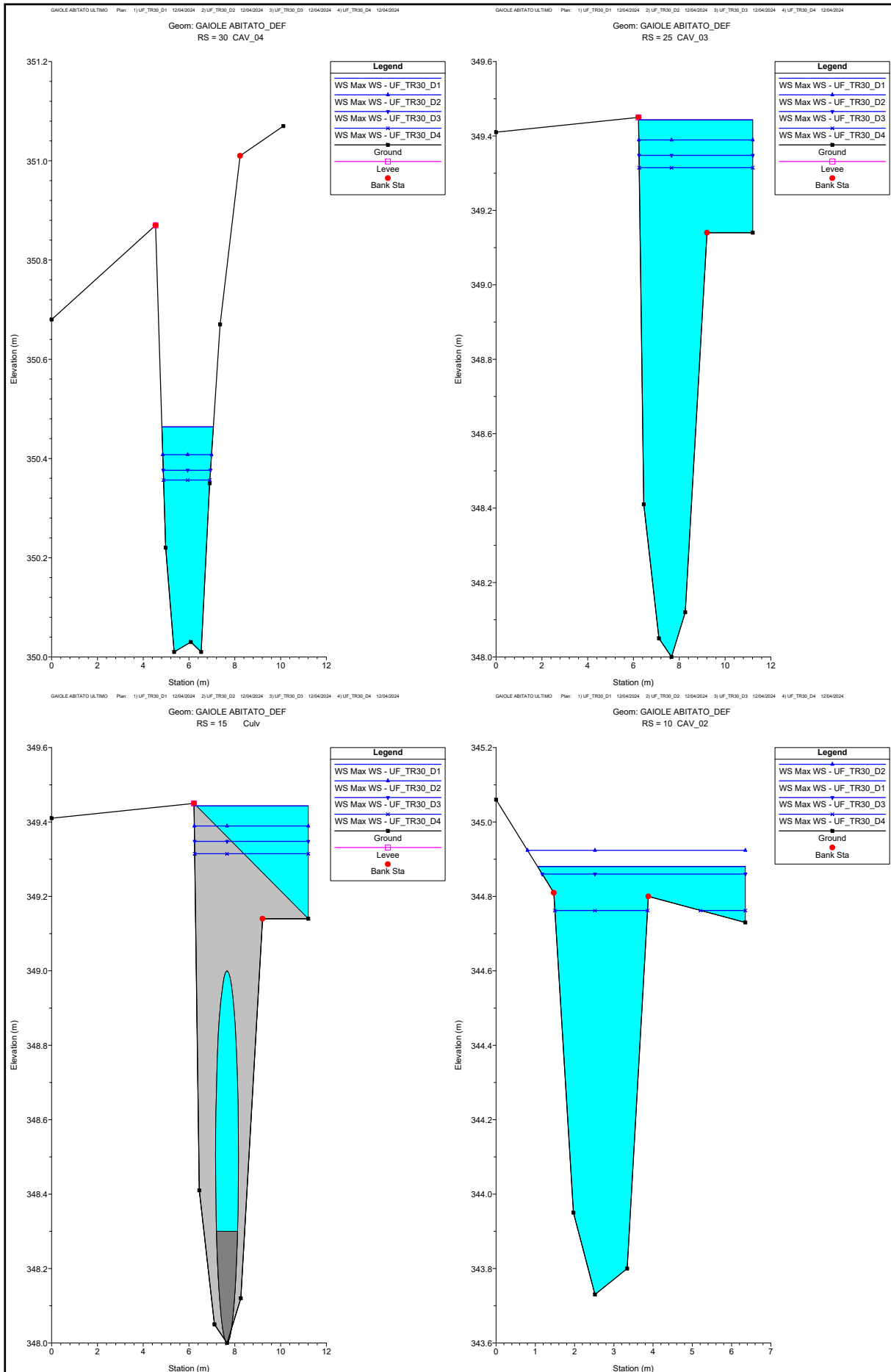
Sezioni Trasversali (da monte verso valle)



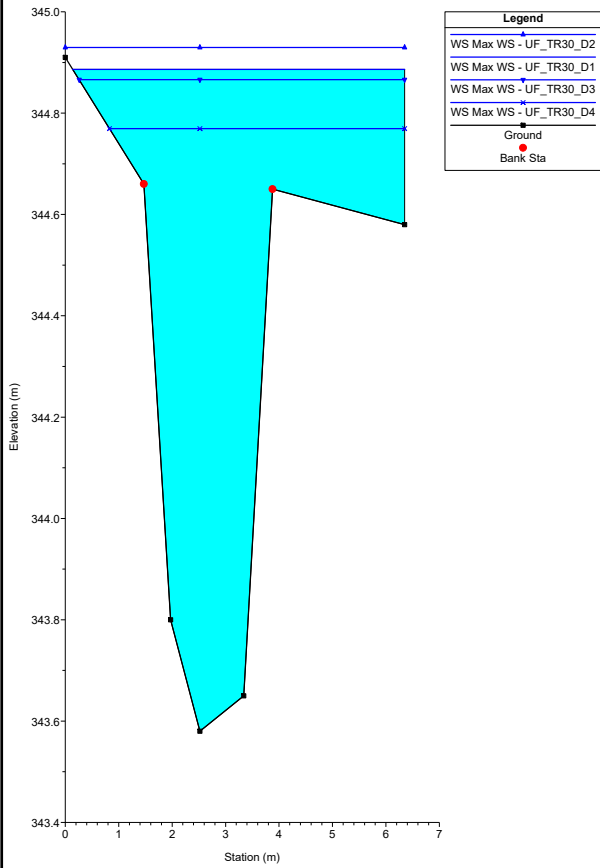








Geom: GAIOLE ABITATO_DEF
RS = 1 CAV_01



ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 551

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
TS551	100	Max WS	UF_TR30_D1	4.07	407.61	408.16	408.35	408.76	0.068495	3.42	0.43	0.27	1.22	4.71	1.92
TS551	100	Max WS	UF_TR30_D2	2.55	407.61	408.08	408.22	408.50	0.067463	2.88			0.88	3.50	1.83
TS551	100	Max WS	UF_TR30_D3	1.90	407.61	408.02	408.14	408.41	0.072017	2.76			0.69	3.07	1.86
TS551	100	Max WS	UF_TR30_D4	1.57	407.61	407.99	408.10	408.35	0.073902	2.66			0.59	2.82	1.86
TS551	95	Max WS	UF_TR30_D1	4.07	405.84	406.34	406.53	406.92	0.068330	3.38	0.54		1.25	5.01	1.92
TS551	95	Max WS	UF_TR30_D2	2.55	405.84	406.24	406.39	406.71	0.080516	3.03	0.05		0.84	3.59	1.99
TS551	95	Max WS	UF_TR30_D3	1.90	405.84	406.19	406.32	406.60	0.082045	2.83			0.67	3.20	1.98
TS551	95	Max WS	UF_TR30_D4	1.57	405.84	406.17	406.28	406.52	0.077153	2.64			0.59	3.01	1.90
TS551	90	Max WS	UF_TR30_D1	4.07	402.58	403.00	403.10	403.33	0.050100	2.53			1.61	6.39	1.61
TS551	90	Max WS	UF_TR30_D2	2.55	402.58	402.93	403.00	403.16	0.042428	2.10			1.21	5.63	1.45
TS551	90	Max WS	UF_TR30_D3	1.90	402.58	402.90	402.95	403.07	0.037498	1.85			1.03	5.28	1.34
TS551	90	Max WS	UF_TR30_D4	1.57	402.58	402.88	402.91	403.03	0.036001	1.73			0.91	4.99	1.30
TS551	85	Max WS	UF_TR30_D1	4.07	399.80	400.02	400.11	400.36	0.125901	3.10	1.25	0.86	2.08	18.47	2.41
TS551	85	Max WS	UF_TR30_D2	2.55	399.80	399.99	400.06	400.27	0.135995	2.75	1.01	0.69	1.44	17.26	2.40
TS551	85	Max WS	UF_TR30_D3	1.90	399.80	399.97	400.03	400.21	0.127720	2.46	0.84	0.58	1.18	16.75	2.28
TS551	85	Max WS	UF_TR30_D4	1.57	399.80	399.96	400.02	400.17	0.121464	2.28	0.74	0.51	1.04	16.46	2.20
TS551	80	Max WS	UF_TR30_D1	4.07	394.44	395.43	395.79	396.29	0.083681	4.12	0.55	0.56	1.00	1.41	1.33
TS551	80	Max WS	UF_TR30_D2	2.55	394.44	395.15	395.31	395.81	0.082213	3.61			0.71	1.00	1.37
TS551	80	Max WS	UF_TR30_D3	1.90	394.44	395.01	395.15	395.58	0.080640	3.35			0.57	1.00	1.42
TS551	80	Max WS	UF_TR30_D4	1.57	394.44	394.93	395.07	395.45	0.079302	3.18			0.49	1.00	1.44
TS551	75	Max WS	UF_TR30_D1	4.07	386.79	387.62	388.08	388.84	0.138903	4.90			0.83	1.00	1.72
TS551	75	Max WS	UF_TR30_D2	2.55	386.79	387.32	387.66	388.50	0.173926	4.82			0.53	1.00	2.11
TS551	75	Max WS	UF_TR30_D3	1.90	386.79	387.20	387.51	388.31	0.197035	4.68			0.41	1.00	2.34
TS551	75	Max WS	UF_TR30_D4	1.57	386.79	387.14	387.42	388.19	0.209414	4.54			0.35	1.00	2.46
TS551	70	Max WS	UF_TR30_D1	4.07	386.24	387.34		387.46	0.005886	1.56			2.60	2.73	0.51
TS551	70	Max WS	UF_TR30_D2	2.55	386.24	386.97		387.09	0.008471	1.57			1.63	2.48	0.62
TS551	70	Max WS	UF_TR30_D3	1.90	386.24	386.79		386.92	0.010862	1.57			1.21	2.37	0.70
TS551	70	Max WS	UF_TR30_D4	1.57	386.24	386.71		386.83	0.012618	1.56			1.01	2.31	0.75
TS551	65	Max WS	UF_TR30_D1	4.07	385.99	387.35		387.44	0.004081	1.35			3.02	2.74	0.41
TS551	65	Max WS	UF_TR30_D2	2.55	385.99	386.97		387.05	0.004658	1.25			2.04	2.48	0.44
TS551	65	Max WS	UF_TR30_D3	1.90	385.99	386.79		386.86	0.005080	1.19			1.60	2.36	0.46
TS551	65	Max WS	UF_TR30_D4	1.57	385.99	386.69		386.76	0.005393	1.15			1.37	2.29	0.47
TS551	63														
TS551	60	Max WS	UF_TR30_D1	4.07	385.69	386.14	386.48	387.45	0.169840	5.07			0.80	2.12	2.63
TS551	60	Max WS	UF_TR30_D2	2.55	385.69	386.03	386.29	387.00	0.171731	4.36			0.58	2.05	2.60
TS551	60	Max WS	UF_TR30_D3	1.90	385.69	385.98	386.19	386.78	0.148563	3.97			0.48	1.71	2.40
TS551	60	Max WS	UF_TR30_D4	1.57	385.69	385.94	386.14	386.68	0.158041	3.81			0.41	1.70	2.47
TS551	55	Max WS	UF_TR30_D1	4.07	378.39	378.75	379.00	379.81	0.196554	4.57			0.89	4.02	3.10
TS551	55	Max WS	UF_TR30_D2	2.55	378.39	378.69	378.88	379.47	0.182509	3.91			0.65	3.53	2.90
TS551	55	Max WS	UF_TR30_D3	1.90	378.39	378.64	378.82	379.38	0.213220	3.80			0.50	3.18	3.06
TS551	55	Max WS	UF_TR30_D4	1.57	378.39	378.62	378.78	379.30	0.223729	3.65			0.43	3.01	3.09
TS551	53.6		Lat Struct												
TS551	53.5		Lat Struct												
TS551	50	Max WS	UF_TR30_D1	2.71	368.03	369.05		369.10	0.002193	0.91			2.96	4.73	0.37
TS551	50	Max WS	UF_TR30_D2	2.15	368.03	369.01		369.04	0.001675	0.78			2.76	4.60	0.32
TS551	50	Max WS	UF_TR30_D3	1.76	368.03	368.98		369.00	0.001337	0.68			2.60	4.50	0.29
TS551	50	Max WS	UF_TR30_D4	1.52	368.03	368.95		368.97	0.001131	0.61			2.48	4.42	0.26
TS551	45	Max WS	UF_TR30_D1	2.12	367.60	369.09		369.10	0.000251	0.39			5.48	6.11	0.13
TS551	45	Max WS	UF_TR30_D2	1.76	367.60	369.03		369.04	0.000204	0.34			5.15	5.95	0.12
TS551	45	Max WS	UF_TR30_D3	1.52	367.60	368.99		369.00	0.000174	0.31			4.90	5.82	0.11
TS551	45	Max WS	UF_TR30_D4	1.36	367.60	368.96		368.97	0.000155	0.29			4.72	5.73	0.10
TS551	43		Culvert												
TS551	40	Max WS	UF_TR30_D1	2.12	360.06	360.67	360.83	361.16	0.068763	3.11			0.68	2.23	1.80
TS551	40	Max WS	UF_TR30_D2	1.76	360.06	360.63	360.77	361.08	0.069086	2.97			0.59	2.08	1.78
TS551	40	Max WS	UF_TR30_D3	1.52	360.06	360.60	360.73	361.02	0.071399	2.90			0.52	1.96	1.79
TS551	40	Max WS	UF_TR30_D4	1.36	360.06	360.57	360.70	360.98	0.070995	2.82			0.48	1.88	1.77
TS551	39.9		Lat Struct												
TS551	39.8		Lat Struct												
TS551	35	Max WS	UF_TR30_D1	2.22	358.86	359.22	359.45	360.06	0.137131	4.08			0.54	2.05	2.53
TS551	35	Max WS	UF_TR30_D2	1.76	358.86	359.18	359.38	359.91	0.133177	3.78			0.47	1.94	2.46
TS551	35	Max WS	UF_TR30_D3	1.52	358.86	359.15	359.34	359.85	0.141134	3.70			0.41	1.85	2.51
TS551	35	Max WS	UF_TR30_D4	1.36	358.86	359.13	359.31	359.80	0.147398	3.64			0.37	1.79	2.54
TS551	30	Max WS	UF_TR30_D1	2.19	350.01	350.46	350.58	350.86	0.046944	2.79			0.79	2.25	1.51
TS551	30	Max WS	UF_TR30_D2	1.76	350.01	350.41	350.52	350.77	0.048748	2.65			0.66	2.13	1.52
TS551	30	Max WS	UF_TR30_D3	1.52	350.01	350.38	350.47	350.71	0.048842	2.54			0.60	2.06	1.51
TS551	30	Max WS	UF_TR30_D4	1.36	350.01	350.36	350.45	350.66	0.047894	2.44			0.56	2.02	1.49
TS551	29.9		Lat Struct												
TS551	29.8		Lat Struct												
TS551	25	Max WS	UF_TR30_D1	1.87	348.00	349.44		349.46	0.000514	0.54		0.16	3.91	4.99	0.16
TS551	25	Max WS	UF_TR30_D2	1.60	348.00	349.39		349.40	0.000447	0.49		0.13	3.64	4.98	0.15
TS551	25	Max WS	UF_TR30_D3	1.46	348.00	349.35		349.36	0.000425	0.47		0.11	3.43	4.97	0.15
TS551	25	Max WS	UF_TR30_D4	1.36	348.00	349.31		349.33	0.000412	0.45		0.10	3.27	4.96	0.15
TS551	15		Culvert												
TS551	10	Max WS	UF_TR30_D1	1.49	343.73	344.88		344.91	0.001273	0.71	0.06	0.14	2.35	5.29	0.24
TS551	10	Max WS	UF_TR30_D2	1.56	343.73	344.92		344.95	0.001140	0.69	0.08	0.16	2.59	5.55	0.23
TS551	10	Max WS	UF_TR30_D3	1.43	343.73	344.86		344.88	0.001288	0.70	0.05	0.12	2.24	5.18	0.25
TS551	10	Max WS	UF_TR30_D4	1.35	343.73	344.76		344.79	0.001740	0.76		0.04	1.79	3.50	0.28
TS551	1	Max WS	UF_TR30_D1	1.49	343.58	344.89		344.90	0.000643	0.56	0.10	0.16	3.25	6.21	0.18
TS551	1	Max WS	UF_TR30_D2	1.55	343.58	344.93		344.94	0.000584	0.55	0.11	0.17	3.52	6.35	0.17

HEC-RAS River: TS551 Reach: TS551 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
TS551	1	Max WS	UF_TR30_D3	1.43	343.58	344.87		344.88	0.000646	0.56	0.09	0.16	3.12	6.09	0.18
TS551	1	Max WS	UF_TR30_D4	1.35	343.58	344.77		344.79	0.000874	0.60	0.07	0.13	2.56	5.52	0.20

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 418

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

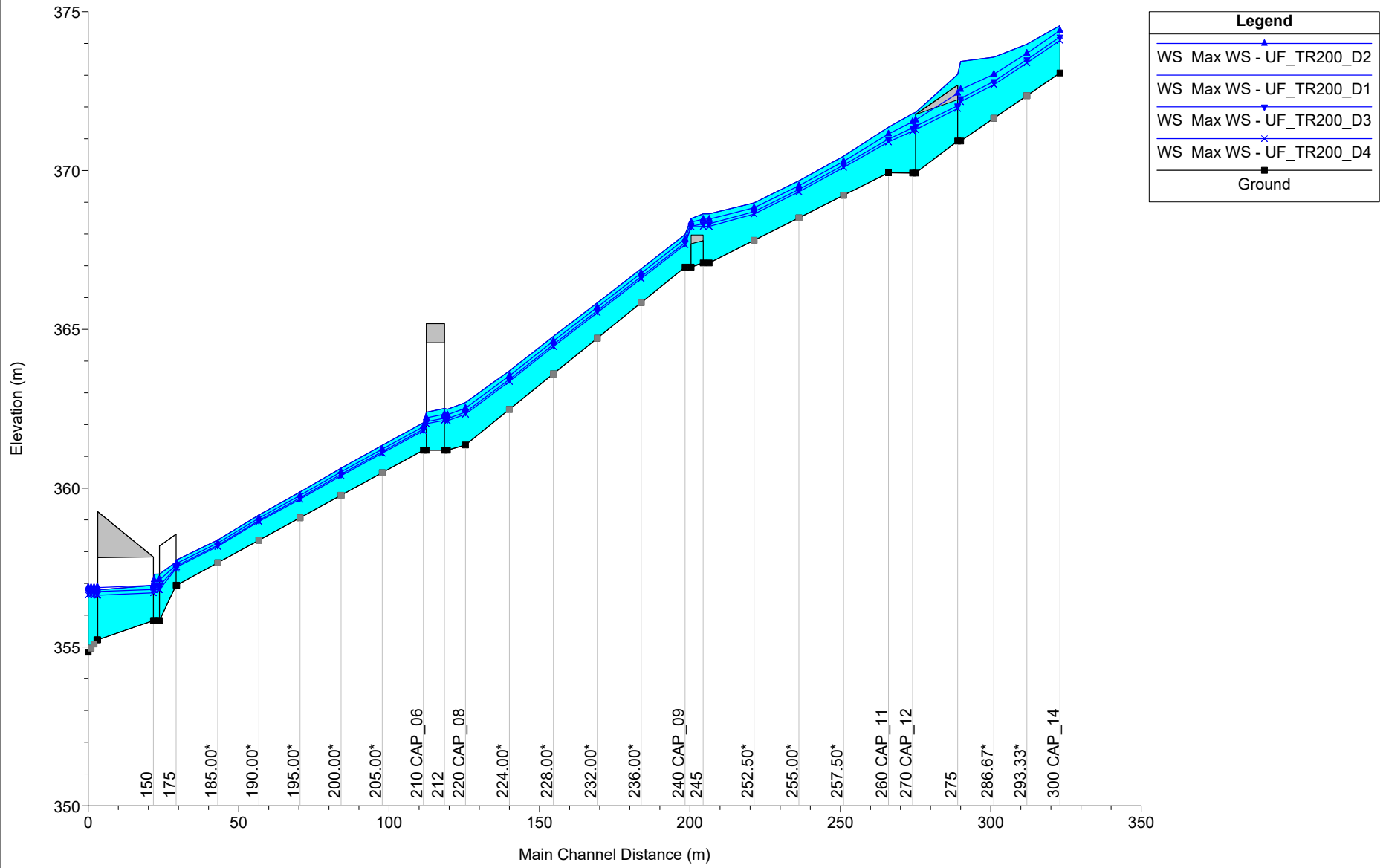
TS 418

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

GAIOLE ABITATO ULTIMO Plan: 1) UF_TR200_D1 12/04/2024 2) UF_TR200_D2 12/04/2024 3) UF_TR200_D3 12/04/2024 4) UF_TR200_D4 12/04/2024



ALLEGATI

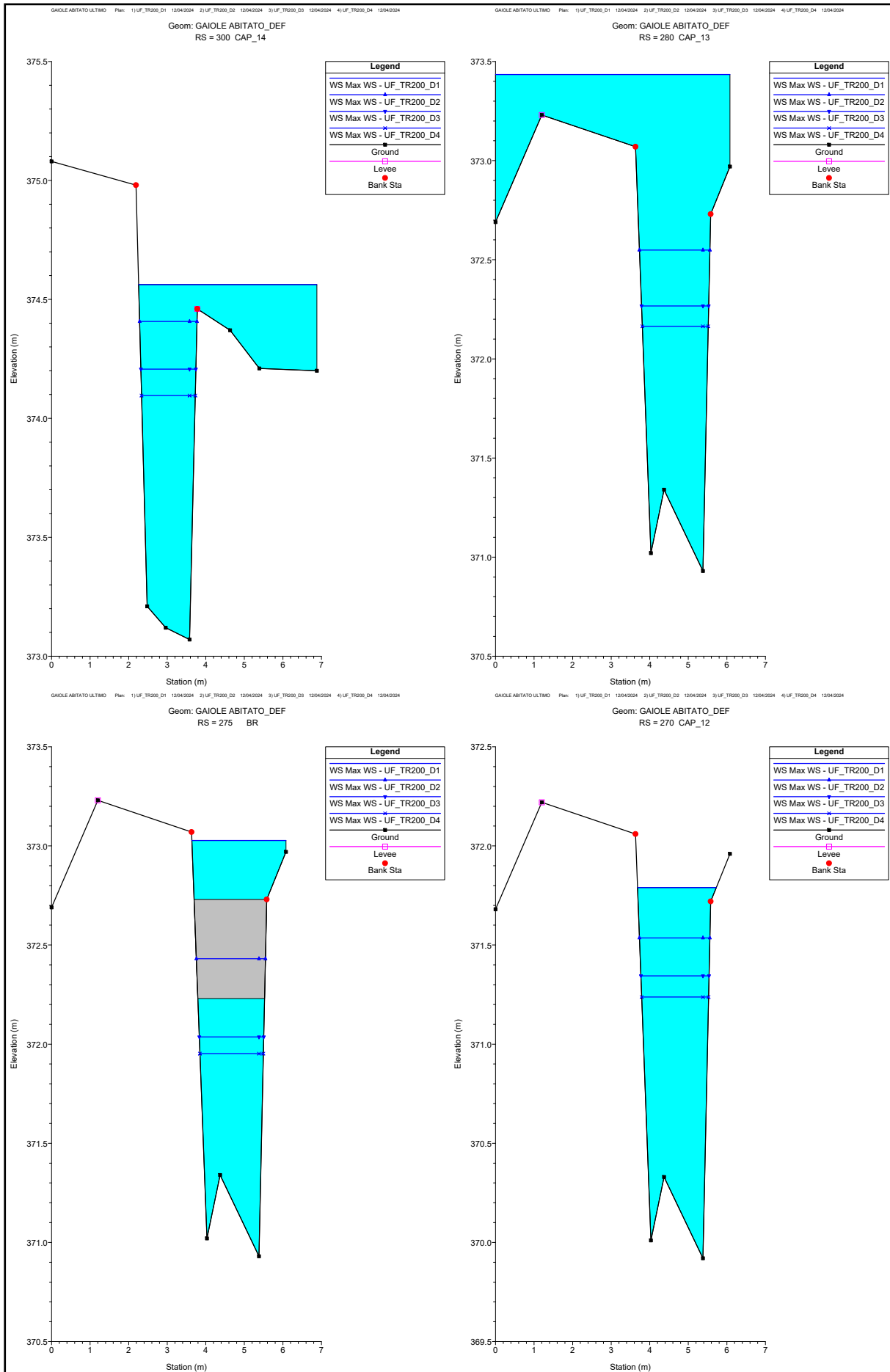
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

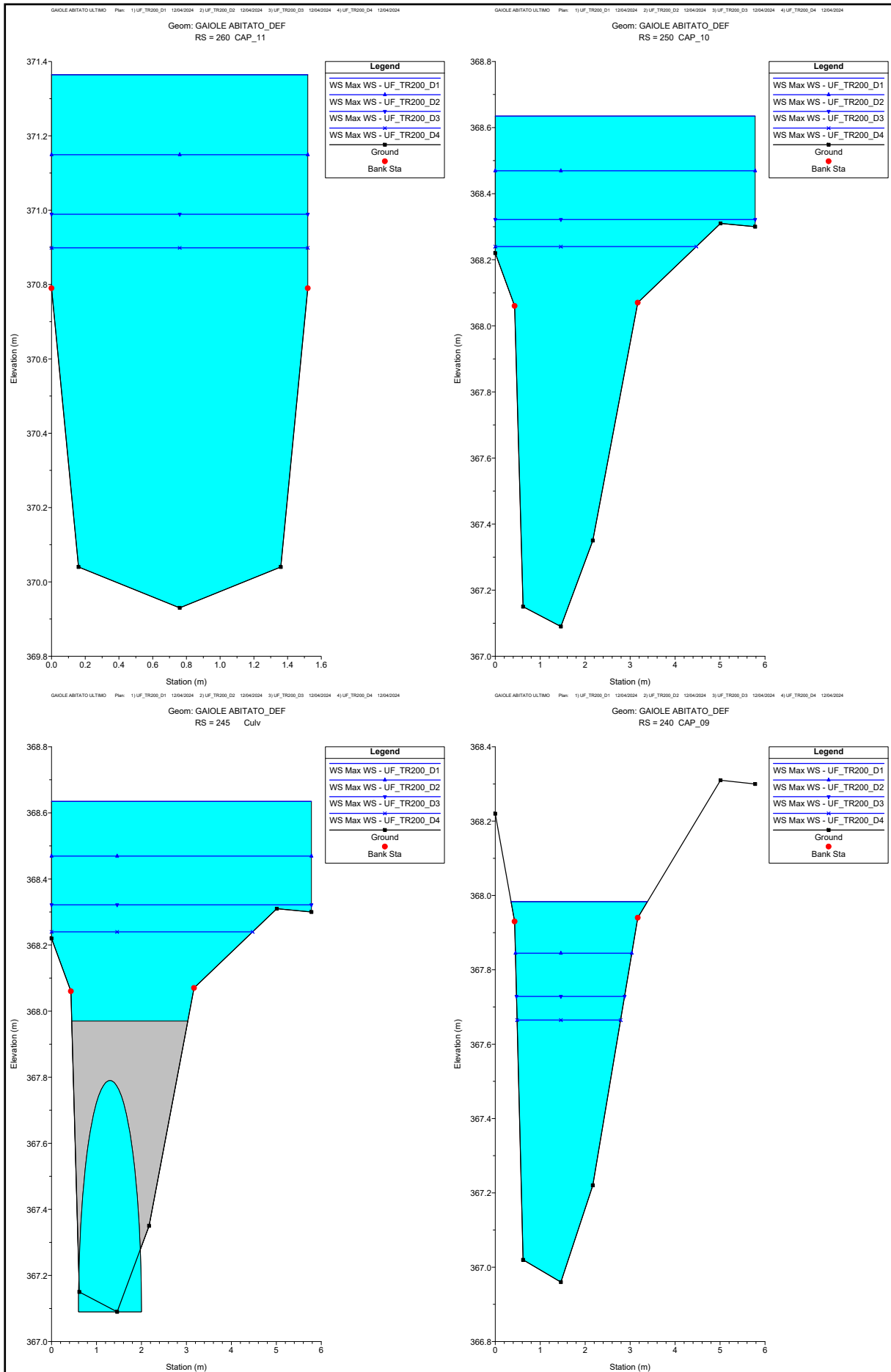
TS 418

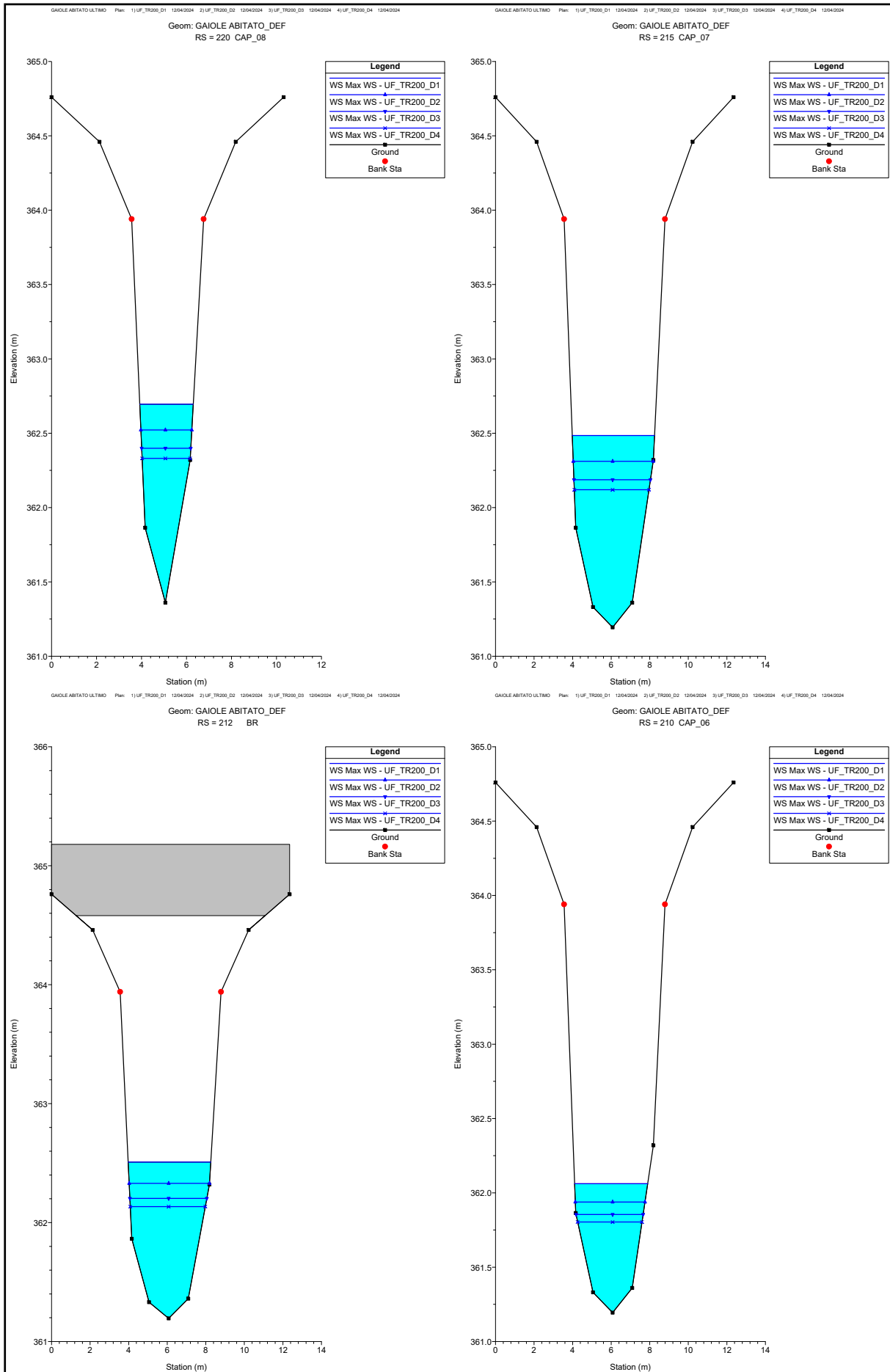
MODELLAZIONE PER TR= 200 anni

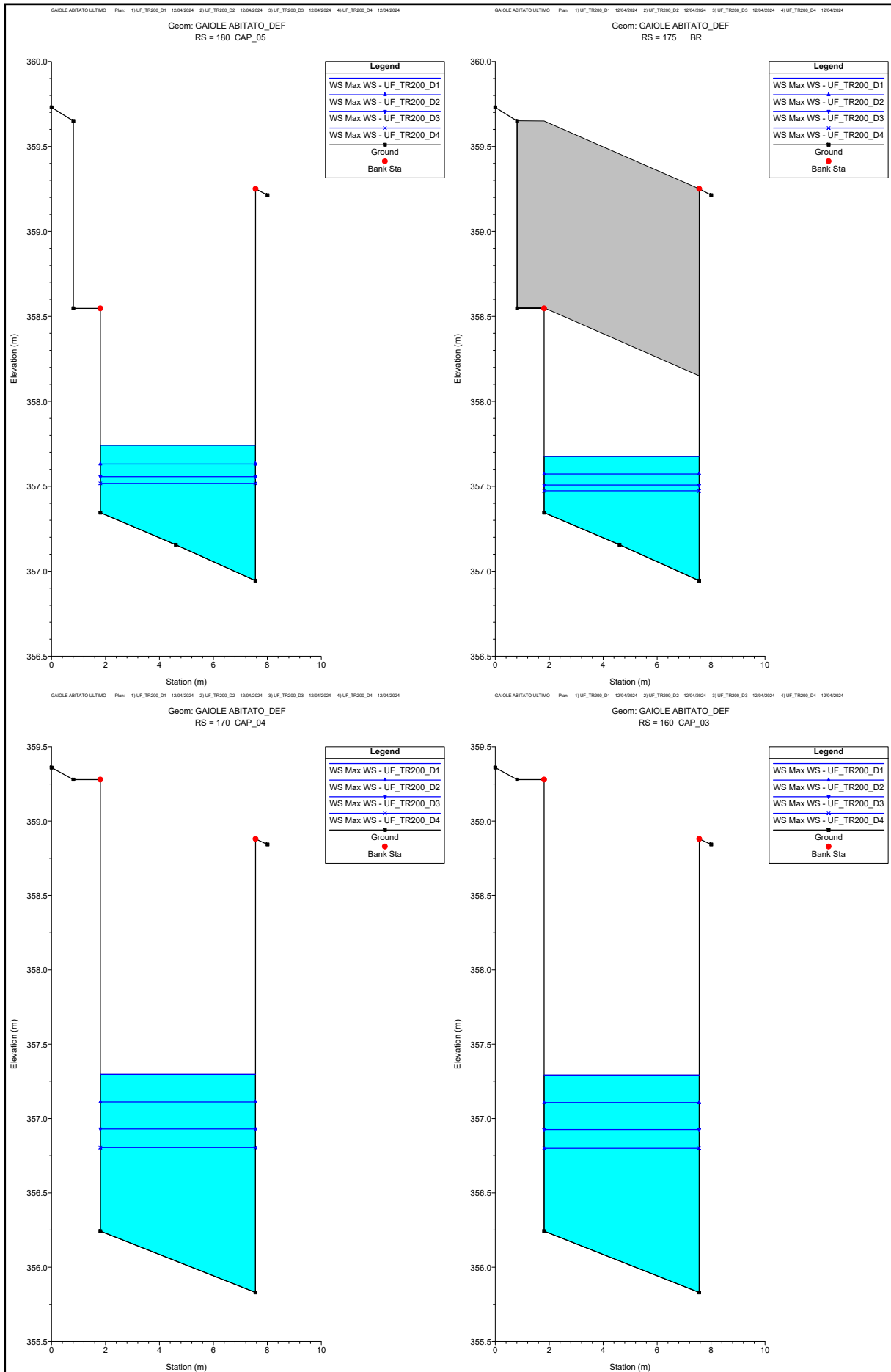
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

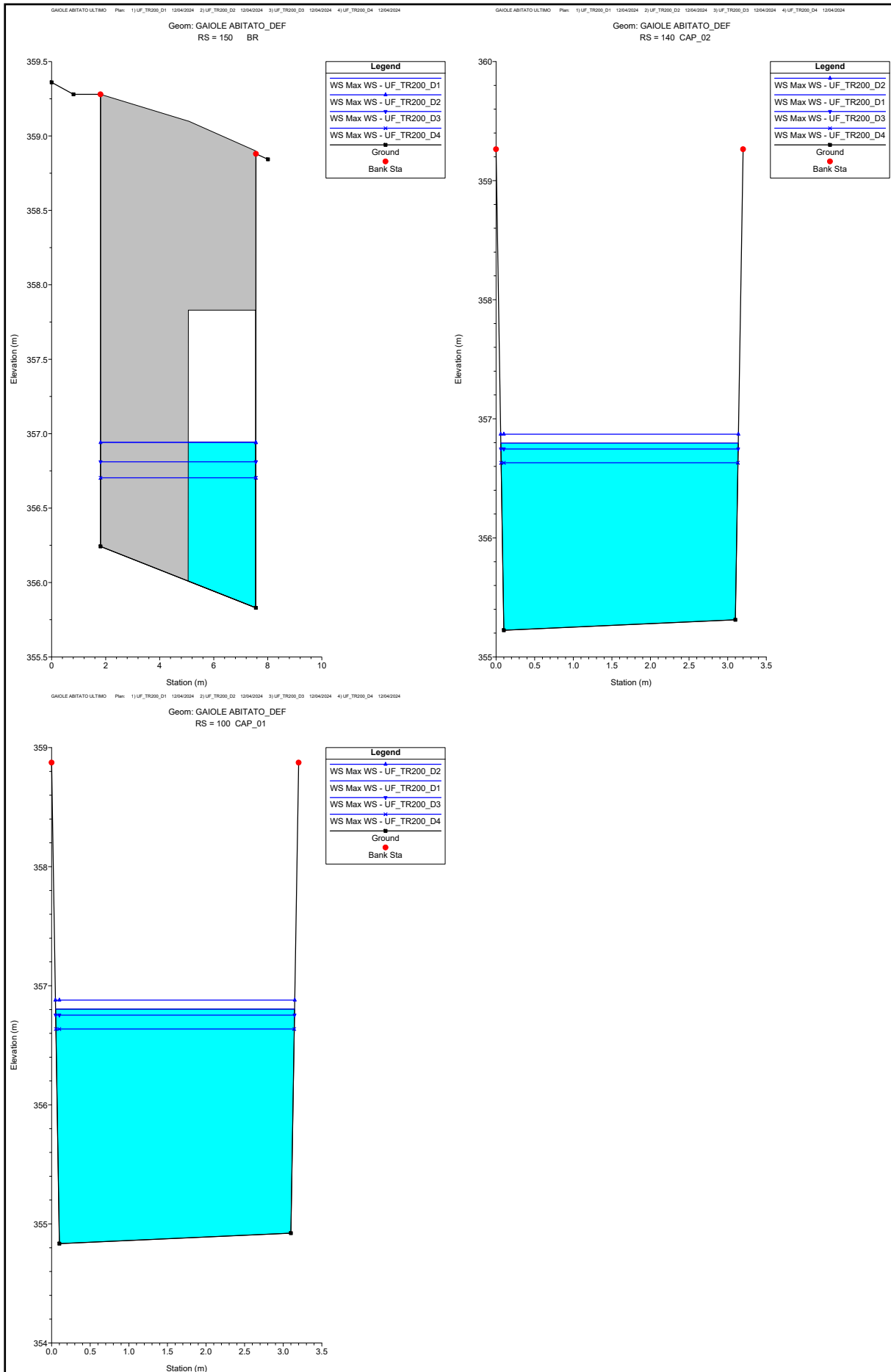
Sezioni Trasversali (da monte verso valle)











ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 418

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

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 Chnl (m/s)	Vel Left (m/s)	Vel Right (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
TS418	300	Max WS	UF_TR200_D1	6.96	373.07	374.56	374.64	374.95	0.057384	2.96		1.58	2.75	4.62	0.85
TS418	300	Max WS	UF_TR200_D2	5.01	373.07	374.41		374.87	0.066223	3.03			1.66	1.49	0.92
TS418	300	Max WS	UF_TR200_D3	3.89	373.07	374.21		374.62	0.065265	2.85			1.36	1.43	0.93
TS418	300	Max WS	UF_TR200_D4	3.32	373.07	374.10	374.06	374.48	0.064843	2.75			1.21	1.39	0.94
TS418	294														
TS418	280	Max WS	UF_TR200_D1	6.95	370.93	373.43	372.44	373.53	0.008548	1.49	0.66	0.67	5.52	6.08	0.33
TS418	280	Max WS	UF_TR200_D2	5.01	370.93	372.55	372.19	372.80	0.032619	2.21			2.27	1.83	0.63
TS418	280	Max WS	UF_TR200_D3	3.89	370.93	372.27	372.03	372.51	0.038335	2.21			1.76	1.74	0.70
TS418	280	Max WS	UF_TR200_D4	3.32	370.93	372.16	371.95	372.39	0.037093	2.09			1.59	1.71	0.69
TS418	275														
TS418	270	Max WS	UF_TR200_D1	6.95	369.92	371.79		372.12	0.037820	2.54		0.32	2.74	2.04	0.68
TS418	270	Max WS	UF_TR200_D2	5.01	369.92	371.54		371.79	0.032810	2.21			2.26	1.83	0.64
TS418	270	Max WS	UF_TR200_D3	3.89	369.92	371.34		371.55	0.030656	2.03			1.92	1.77	0.62
TS418	270	Max WS	UF_TR200_D4	3.32	369.92	371.24		371.43	0.029362	1.92			1.73	1.74	0.61
TS418	260	Max WS	UF_TR200_D1	6.50	369.93	371.36		371.93	0.068930	3.32			1.96	1.52	0.93
TS418	260	Max WS	UF_TR200_D2	5.00	369.93	371.15	371.10	371.63	0.064184	3.06			1.63	1.52	0.94
TS418	260	Max WS	UF_TR200_D3	3.89	369.93	370.99		371.39	0.058503	2.80			1.39	1.52	0.94
TS418	260	Max WS	UF_TR200_D4	3.32	369.93	370.90		371.26	0.055760	2.65			1.25	1.52	0.93
TS418	252														
TS418	250	Max WS	UF_TR200_D1	6.79	367.09	368.63		368.77	0.008417	1.71	0.60	0.78	4.68	5.78	0.49
TS418	250	Max WS	UF_TR200_D2	5.15	367.09	368.47		368.59	0.008853	1.60	0.54	0.59	3.72	5.78	0.49
TS418	250	Max WS	UF_TR200_D3	3.91	367.09	368.32		368.43	0.009427	1.49	0.43	0.34	2.87	5.78	0.50
TS418	250	Max WS	UF_TR200_D4	3.32	367.09	368.24		368.34	0.009530	1.41	0.33	0.31	2.47	4.47	0.49
TS418	245														
TS418	240	Max WS	UF_TR200_D1	6.79	366.96	367.98	368.16	368.59	0.070408	3.45	0.35	0.34	1.97	3.03	1.30
TS418	240	Max WS	UF_TR200_D2	5.15	366.96	367.84	367.98	368.38	0.074673	3.23			1.60	2.59	1.31
TS418	240	Max WS	UF_TR200_D3	3.91	366.96	367.73	367.84	368.19	0.074075	3.00			1.31	2.40	1.30
TS418	240	Max WS	UF_TR200_D4	3.32	366.96	367.67	367.77	368.09	0.074095	2.87			1.16	2.30	1.29
TS418	220	Max WS	UF_TR200_D1	6.65	361.36	362.69	362.77	363.24	0.059800	3.26			2.04	2.38	1.12
TS418	220	Max WS	UF_TR200_D2	4.96	361.36	362.52	362.59	362.99	0.060454	3.03			1.64	2.26	1.14
TS418	220	Max WS	UF_TR200_D3	3.89	361.36	362.40	362.46	362.81	0.061613	2.85			1.36	2.18	1.15
TS418	220	Max WS	UF_TR200_D4	3.32	361.36	362.33	362.39	362.71	0.061291	2.72			1.22	2.14	1.15
TS418	219														
TS418	215	Max WS	UF_TR200_D1	6.88	361.19	362.48	362.15	362.63	0.010674	1.71			4.04	4.27	0.56
TS418	215	Max WS	UF_TR200_D2	5.03	361.19	362.31	362.01	362.43	0.010094	1.52			3.31	4.15	0.54
TS418	215	Max WS	UF_TR200_D3	3.89	361.19	362.19	361.91	362.29	0.009622	1.39			2.80	3.97	0.53
TS418	215	Max WS	UF_TR200_D4	3.32	361.19	362.12	361.86	362.21	0.009241	1.31			2.54	3.87	0.52
TS418	212														
TS418	210	Max WS	UF_TR200_D1	6.88	361.19	362.06	362.15	362.51	0.051747	2.98			2.31	3.79	1.22
TS418	210	Max WS	UF_TR200_D2	5.03	361.19	361.94	362.01	362.31	0.052008	2.71			1.86	3.61	1.21
TS418	210	Max WS	UF_TR200_D3	3.89	361.19	361.85	361.91	362.17	0.051711	2.50			1.56	3.48	1.19
TS418	210	Max WS	UF_TR200_D4	3.32	361.19	361.80	361.86	362.10	0.052172	2.39			1.39	3.34	1.19
TS418	180	Max WS	UF_TR200_D1	6.86	356.94	357.74	357.67	357.95	0.026074	2.01			3.41	5.75	0.83
TS418	180	Max WS	UF_TR200_D2	5.03	356.94	357.63	357.57	357.80	0.026642	1.81			2.78	5.75	0.83
TS418	180	Max WS	UF_TR200_D3	3.89	356.94	357.56	357.50	357.70	0.027057	1.66			2.35	5.75	0.83
TS418	180	Max WS	UF_TR200_D4	3.32	356.94	357.52	357.47	357.64	0.027127	1.56			2.12	5.75	0.82
TS418	175														
TS418	170	Max WS	UF_TR200_D1	6.86	355.83	357.30		357.34	0.002680	0.95			7.25	5.75	0.27
TS418	170	Max WS	UF_TR200_D2	5.01	355.83	357.11		357.14	0.002282	0.81			6.18	5.75	0.25
TS418	170	Max WS	UF_TR200_D3	3.89	355.83	356.93		356.96	0.002393	0.76			5.14	5.75	0.26
TS418	170	Max WS	UF_TR200_D4	3.31	355.83	356.80		356.83	0.002748	0.75			4.41	5.75	0.27
TS418	160	Max WS	UF_TR200_D1	6.86	355.83	357.29	356.56	357.34	0.002706	0.95			7.22	5.75	0.27
TS418	160	Max WS	UF_TR200_D2	5.01	355.83	357.11	356.46	357.14	0.002306	0.81			6.16	5.75	0.25
TS418	160	Max WS	UF_TR200_D3	3.89	355.83	356.93	356.39	356.95	0.002425	0.76			5.11	5.75	0.26
TS418	160	Max WS	UF_TR200_D4	3.31	355.83	356.80	356.36	356.83	0.002795	0.75			4.39	5.75	0.28
TS418	150														
TS418	140	Max WS	UF_TR200_D1	4.31	355.22	356.80		356.84	0.003073	0.93			4.64	3.08	0.24
TS418	140	Max WS	UF_TR200_D2	4.84	355.22	356.87		356.92	0.003401	0.99			4.87	3.08	0.25
TS418	140	Max WS	UF_TR200_D3	3.83	355.22	356.75		356.78	0.002653	0.85			4.49	3.07	0.23
TS418	140	Max WS	UF_TR200_D4	3.30	355.22	356.63		356.66	0.002465	0.80			4.13	3.07	0.22
TS418	100	Max WS	UF_TR200_D1	4.31	354.83	356.80		356.83	0.001655	0.73			5.87	3.10	0.17
TS418	100	Max WS	UF_TR200_D2	4.84	354.83	356.88		356.91	0.001885	0.79			6.10	3.10	0.18
TS418	100	Max WS	UF_TR200_D3	3.83	354.83	356.75		356.78	0.001407	0.67			5.71	3.09	0.16
TS418	100	Max WS	UF_TR200_D4	3.30	354.83	356.64		356.66	0.001237	0.62			5.35	3.09	0.15

ALLEGATI

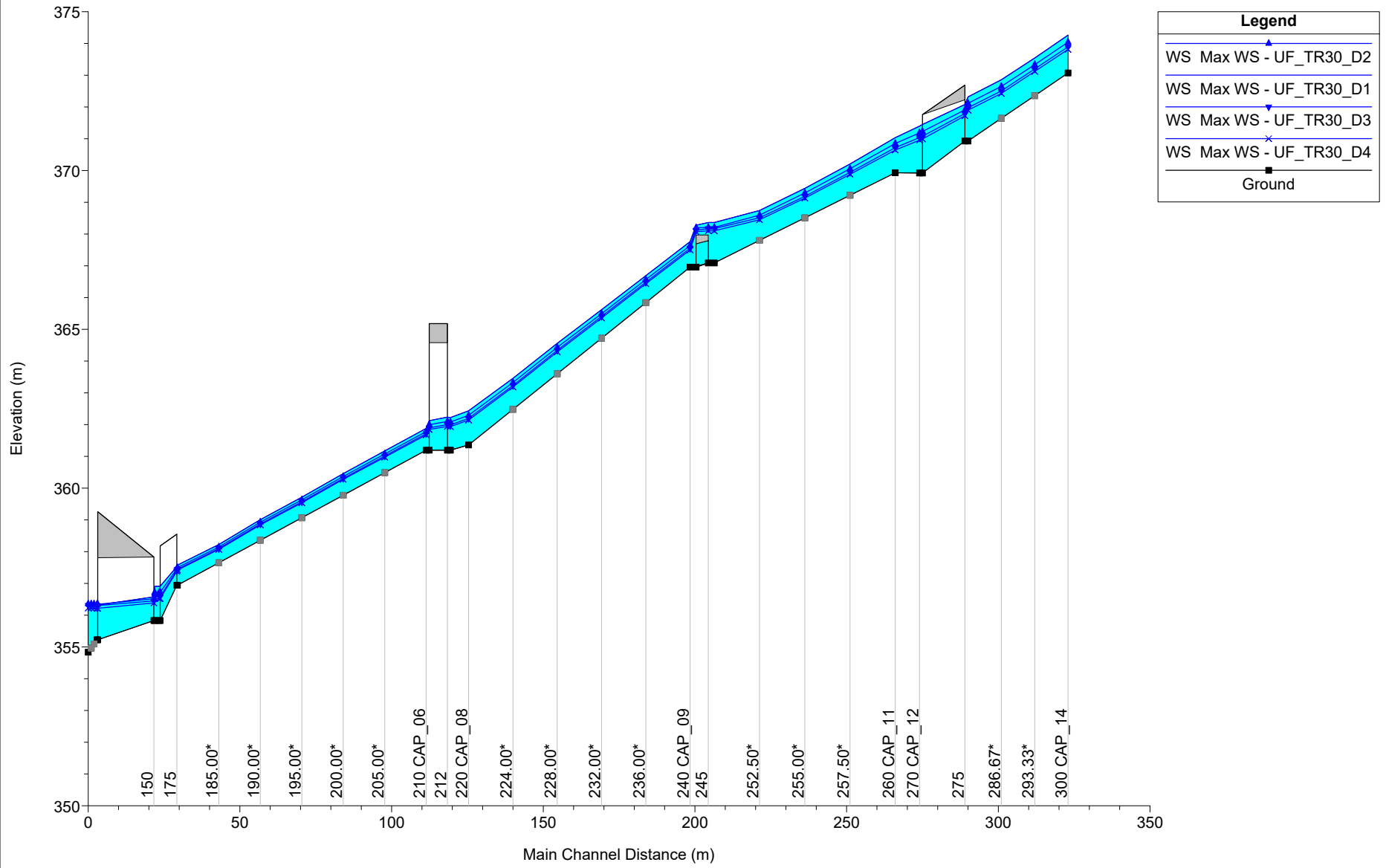
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 418

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

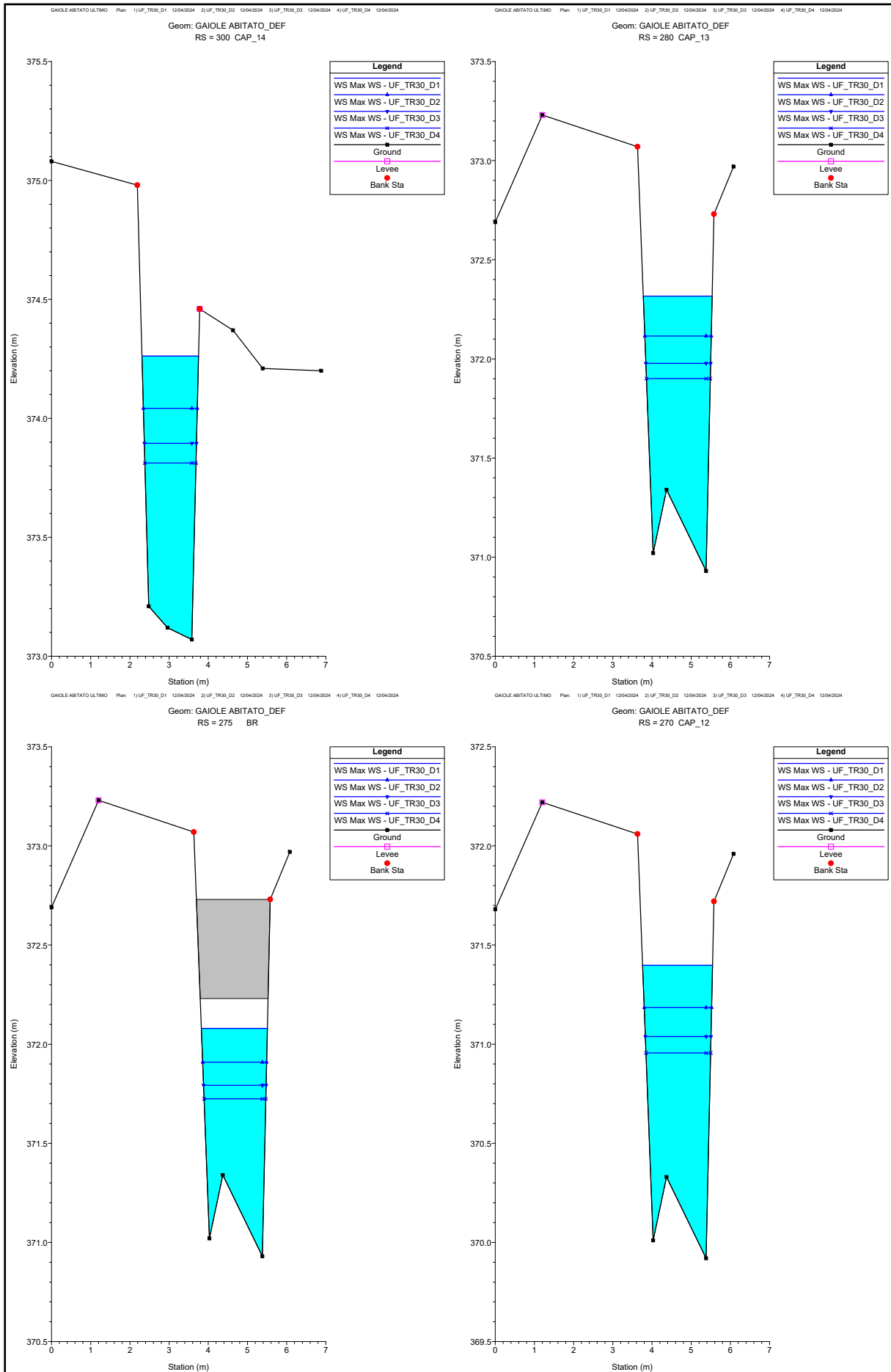
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

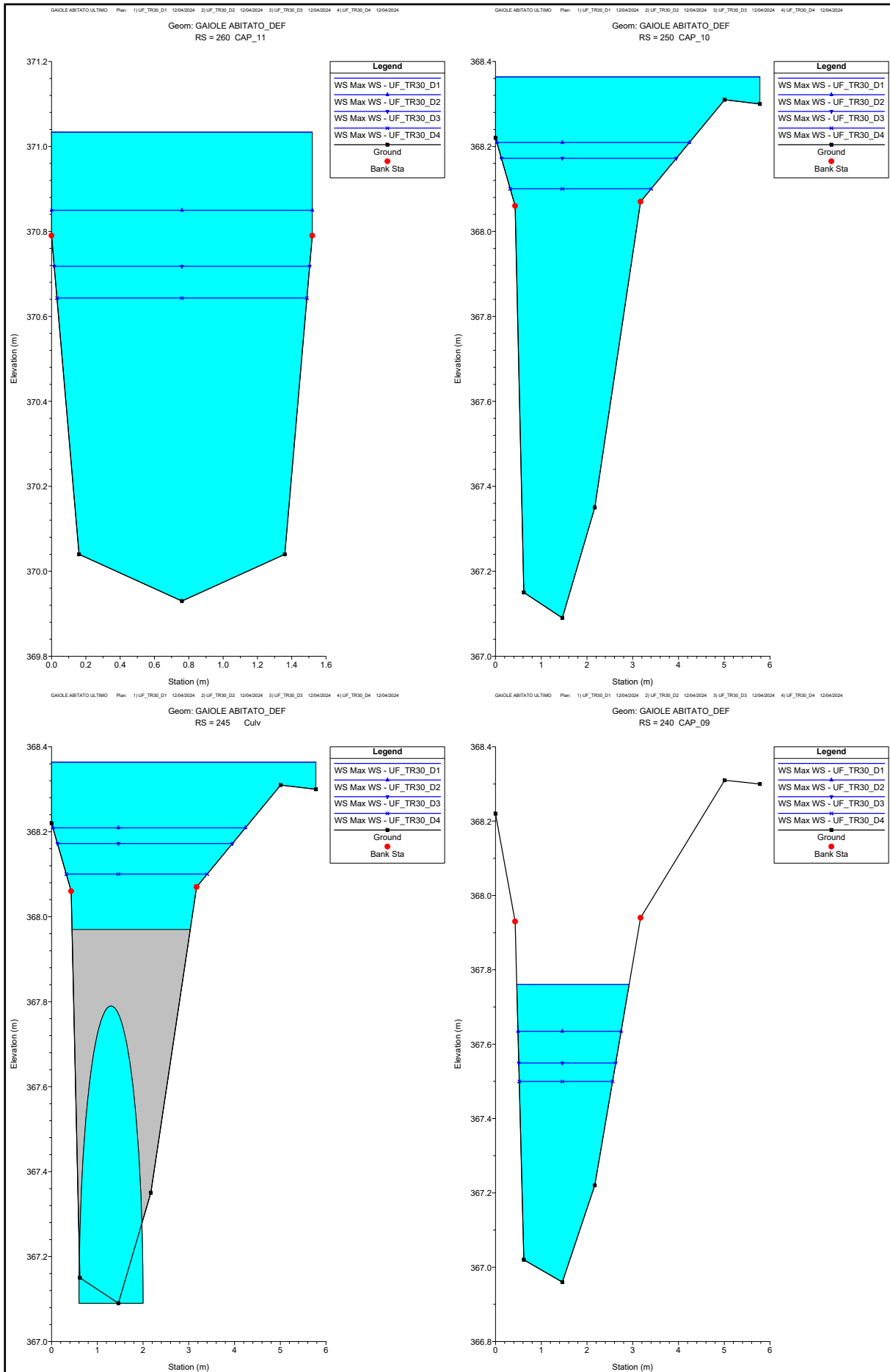
TS 418

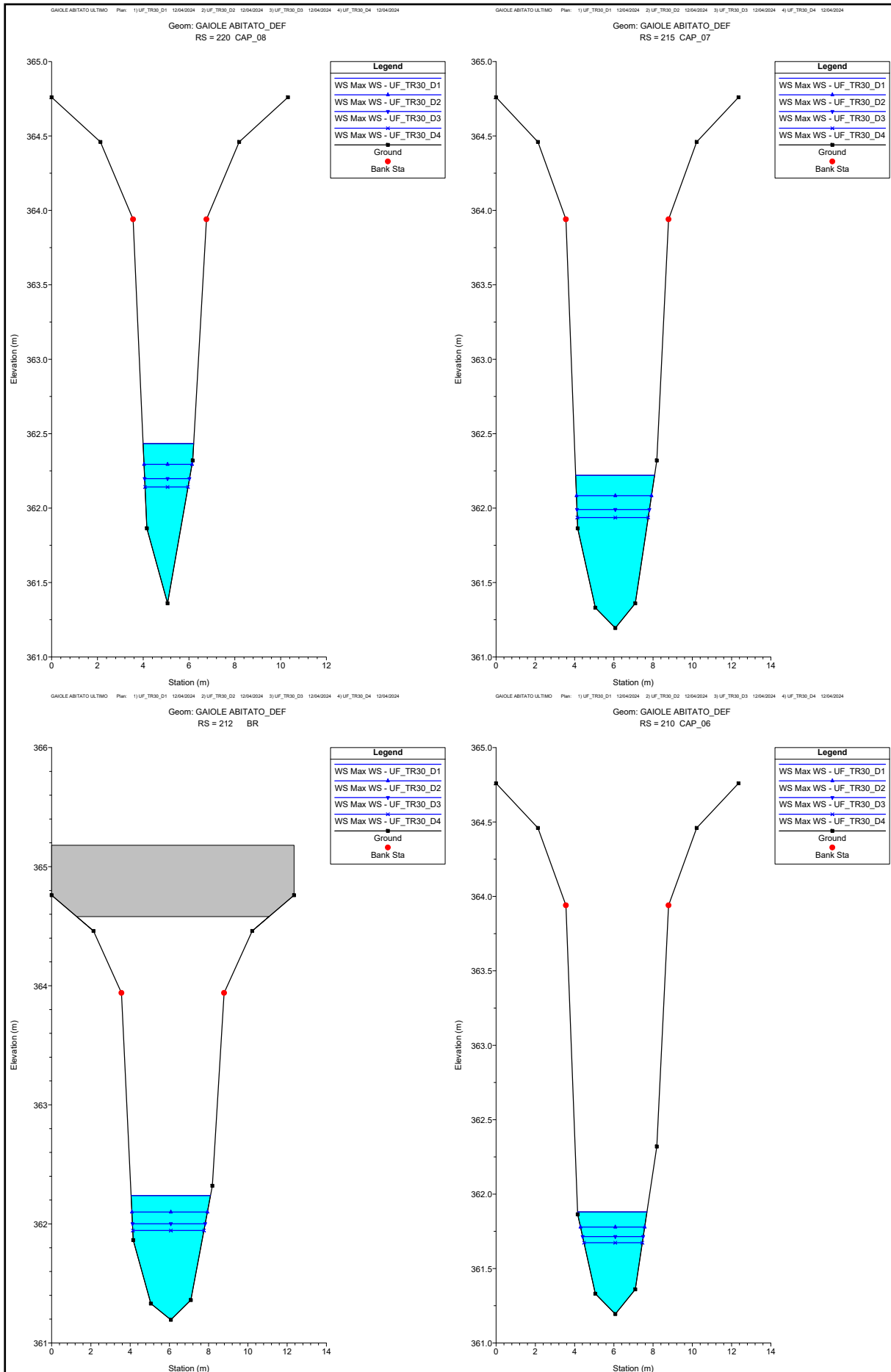
MODELLAZIONE PER TR= 30 anni

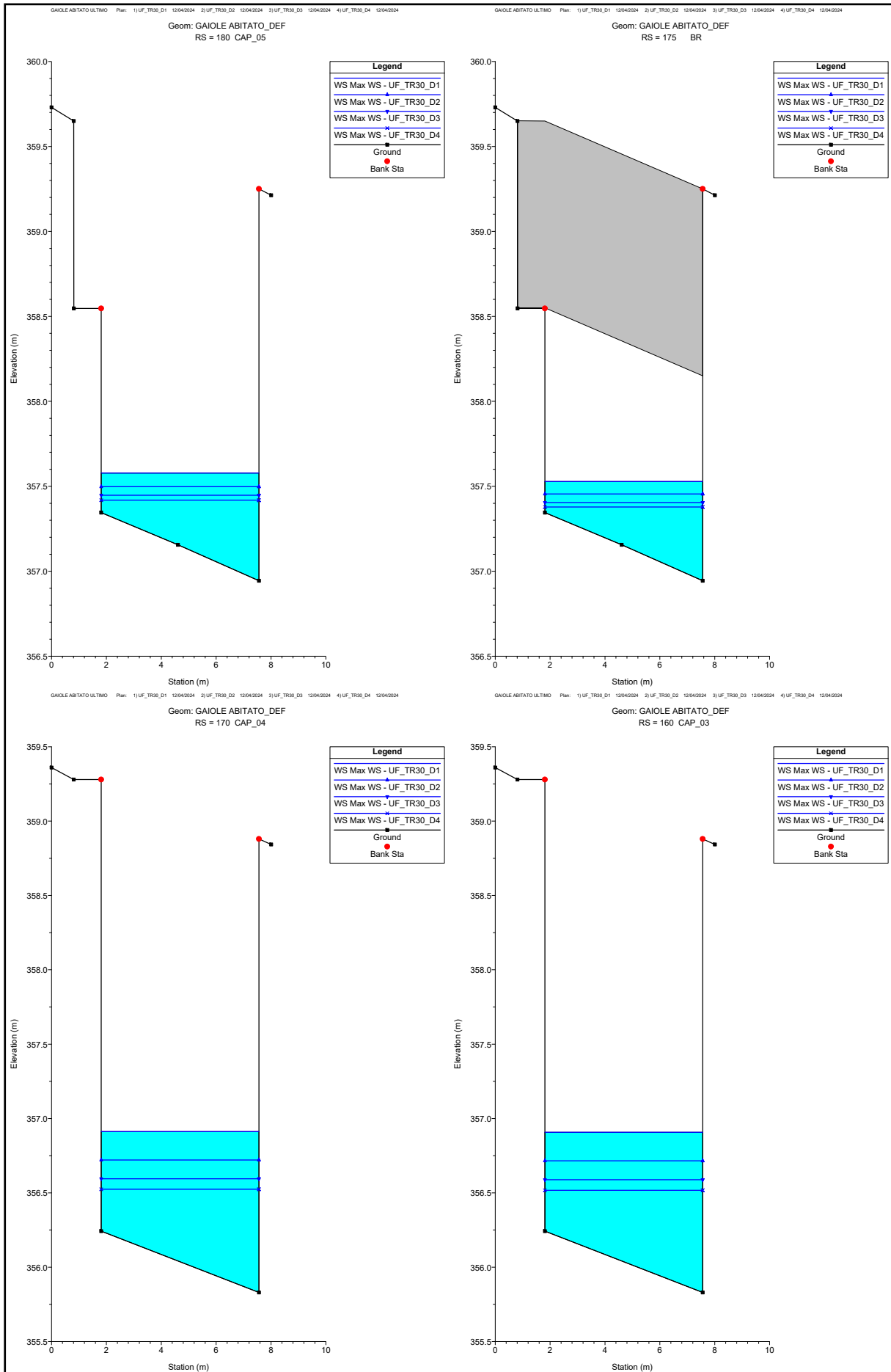
DURATE DI PIOGGIA: 1, 2, 3 e 4 h

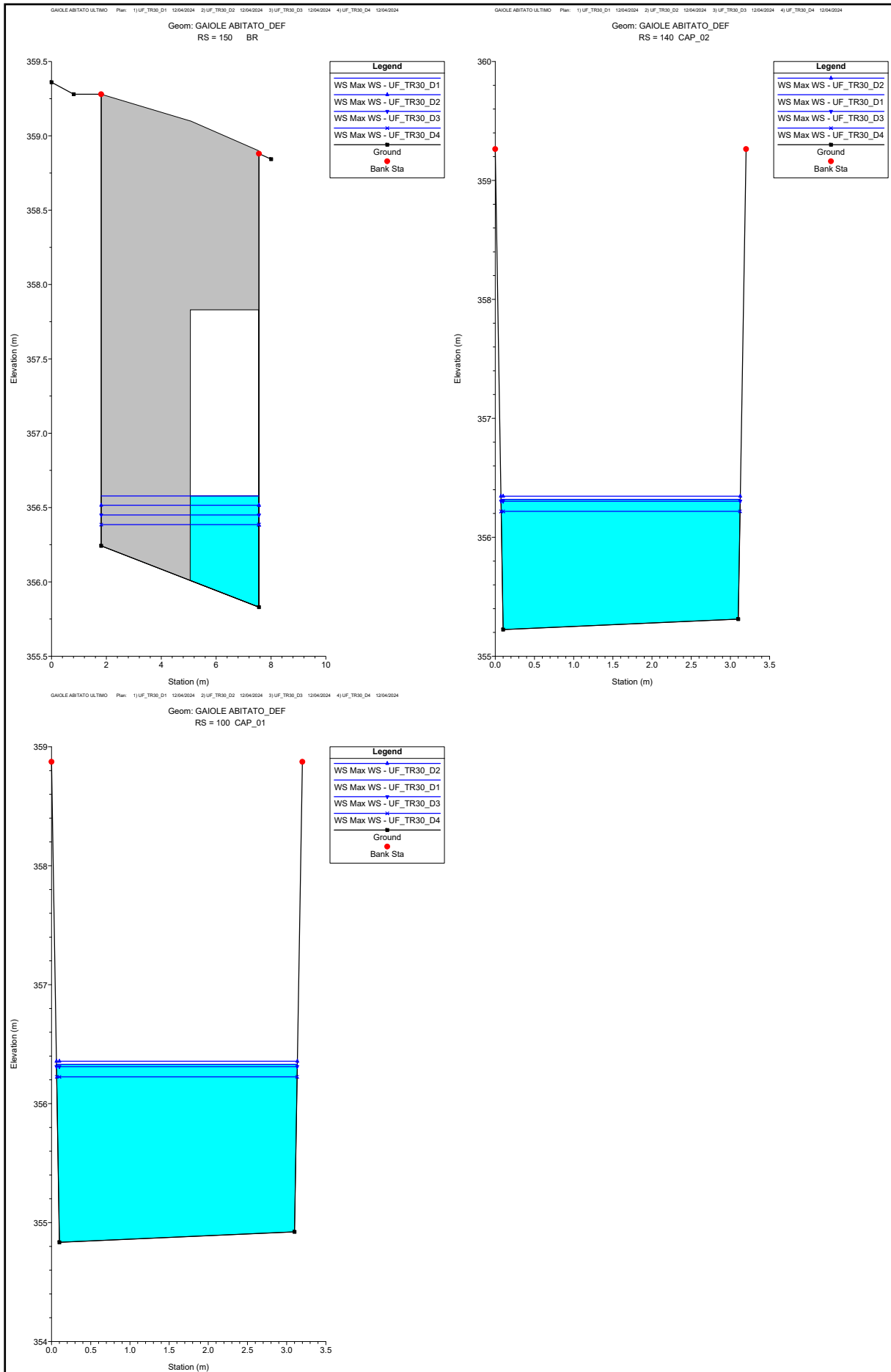
Sezioni Trasversali (da monte verso valle)











ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

TS 418

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: TS418 Reach: TS418 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
TS418	300	Max WS	UF_TR30_D1	4.19	373.07	374.26		374.69	0.065609	2.90			1.44	1.44	0.93
TS418	300	Max WS	UF_TR30_D2	3.05	373.07	374.04	374.01	374.41	0.064488	2.69			1.13	1.38	0.95
TS418	300	Max WS	UF_TR30_D3	2.36	373.07	373.89	373.87	374.22	0.063802	2.53			0.93	1.33	0.96
TS418	300	Max WS	UF_TR30_D4	2.00	373.07	373.81	373.80	374.11	0.063488	2.43			0.82	1.31	0.97
TS418	294		Lat Struct												
TS418	280	Max WS	UF_TR30_D1	4.19	370.93	372.32	372.08	372.58	0.039110	2.26			1.85	1.76	0.70
TS418	280	Max WS	UF_TR30_D2	3.05	370.93	372.12	371.91	372.33	0.036275	2.03			1.50	1.70	0.69
TS418	280	Max WS	UF_TR30_D3	2.36	370.93	371.98	371.79	372.15	0.034287	1.86			1.27	1.65	0.68
TS418	280	Max WS	UF_TR30_D4	2.00	370.93	371.90	371.72	372.06	0.032841	1.75			1.15	1.63	0.66
TS418	275		Bridge												
TS418	270	Max WS	UF_TR30_D1	4.19	369.92	371.40		371.62	0.031244	2.08			2.01	1.79	0.63
TS418	270	Max WS	UF_TR30_D2	3.05	369.92	371.18		371.36	0.028707	1.86			1.64	1.72	0.61
TS418	270	Max WS	UF_TR30_D3	2.36	369.92	371.04		371.19	0.026790	1.70			1.39	1.68	0.59
TS418	270	Max WS	UF_TR30_D4	2.00	369.92	370.96		371.09	0.025627	1.60			1.25	1.65	0.58
TS418	260	Max WS	UF_TR30_D1	4.19	369.93	371.03		371.46	0.060089	2.88			1.46	1.52	0.94
TS418	260	Max WS	UF_TR30_D2	3.05	369.93	370.85	370.82	371.19	0.055173	2.59			1.18	1.52	0.94
TS418	260	Max WS	UF_TR30_D3	2.36	369.93	370.72	370.69	371.02	0.053861	2.41			0.98	1.49	0.95
TS418	260	Max WS	UF_TR30_D4	2.00	369.93	370.64	370.62	370.91	0.053155	2.31			0.87	1.46	0.95
TS418	252		Lat Struct												
TS418	250	Max WS	UF_TR30_D1	4.24	367.09	368.36		368.48	0.009209	1.52	0.47	0.42	3.12	5.78	0.49
TS418	250	Max WS	UF_TR30_D2	3.05	367.09	368.21		368.30	0.009188	1.35	0.27	0.27	2.34	4.21	0.48
TS418	250	Max WS	UF_TR30_D3	2.36	367.09	368.17		368.23	0.006492	1.10	0.19	0.18	2.19	3.82	0.40
TS418	250	Max WS	UF_TR30_D4	2.00	367.09	368.10		368.15	0.006502	1.03	0.10	0.08	1.94	3.08	0.39
TS418	245		Culvert												
TS418	240	Max WS	UF_TR30_D1	4.24	366.96	367.76	367.88	368.24	0.074070	3.06			1.38	2.46	1.30
TS418	240	Max WS	UF_TR30_D2	3.05	366.96	367.63	367.73	368.04	0.074057	2.81			1.09	2.25	1.29
TS418	240	Max WS	UF_TR30_D3	2.36	366.96	367.55	367.63	367.90	0.074378	2.62			0.90	2.12	1.28
TS418	240	Max WS	UF_TR30_D4	2.00	366.96	367.50	367.57	367.82	0.074720	2.51			0.80	2.04	1.28
TS418	220	Max WS	UF_TR30_D1	4.20	361.36	362.43	362.50	362.87	0.061712	2.92			1.44	2.21	1.15
TS418	220	Max WS	UF_TR30_D2	3.05	361.36	362.29	362.35	362.66	0.062037	2.67			1.14	2.09	1.16
TS418	220	Max WS	UF_TR30_D3	2.36	361.36	362.20	362.25	362.52	0.061552	2.49			0.95	1.96	1.15
TS418	220	Max WS	UF_TR30_D4	2.00	361.36	362.14	362.18	362.43	0.061290	2.38			0.84	1.88	1.14
TS418	219		Lat Struct												
TS418	215	Max WS	UF_TR30_D1	4.20	361.19	362.22	361.94	362.32	0.009821	1.43			2.93	4.02	0.54
TS418	215	Max WS	UF_TR30_D2	3.05	361.19	362.08	361.83	362.17	0.009161	1.27			2.40	3.82	0.51
TS418	215	Max WS	UF_TR30_D3	2.36	361.19	361.99	361.75	362.06	0.008609	1.15			2.05	3.69	0.49
TS418	215	Max WS	UF_TR30_D4	2.00	361.19	361.94	361.70	362.00	0.008287	1.08			1.85	3.61	0.48
TS418	212		Bridge												
TS418	210	Max WS	UF_TR30_D1	4.20	361.19	361.88	361.94	362.21	0.051150	2.55			1.65	3.53	1.19
TS418	210	Max WS	UF_TR30_D2	3.05	361.19	361.78	361.83	362.06	0.052419	2.34			1.30	3.27	1.18
TS418	210	Max WS	UF_TR30_D3	2.36	361.19	361.71	361.75	361.95	0.050562	2.14			1.10	3.09	1.15
TS418	210	Max WS	UF_TR30_D4	2.00	361.19	361.67	361.71	361.89	0.051025	2.05			0.98	2.97	1.14
TS418	180	Max WS	UF_TR30_D1	4.20	356.94	357.58	357.52	357.72	0.026901	1.70			2.47	5.75	0.83
TS418	180	Max WS	UF_TR30_D2	3.05	356.94	357.50	357.45	357.61	0.027129	1.51			2.01	5.75	0.82
TS418	180	Max WS	UF_TR30_D3	2.36	356.94	357.45	357.40	357.54	0.026825	1.37			1.72	5.75	0.80
TS418	180	Max WS	UF_TR30_D4	2.00	356.94	357.42	357.38	357.50	0.026742	1.29			1.56	5.75	0.79
TS418	175		Bridge												
TS418	170	Max WS	UF_TR30_D1	4.20	355.83	356.91		356.95	0.002967	0.83			5.04	5.75	0.28
TS418	170	Max WS	UF_TR30_D2	3.05	355.83	356.72		356.75	0.003314	0.77			3.94	5.75	0.30
TS418	170	Max WS	UF_TR30_D3	2.36	355.83	356.59		356.62	0.003731	0.73			3.21	5.75	0.31
TS418	170	Max WS	UF_TR30_D4	2.00	355.83	356.52		356.55	0.004073	0.71			2.81	5.75	0.33
TS418	160	Max WS	UF_TR30_D1	4.20	355.83	356.91	356.41	356.94	0.003018	0.84			5.01	5.75	0.29
TS418	160	Max WS	UF_TR30_D2	3.05	355.83	356.72	356.34	356.75	0.003397	0.78			3.90	5.75	0.30
TS418	160	Max WS	UF_TR30_D3	2.36	355.83	356.59	356.29	356.62	0.003860	0.74			3.18	5.75	0.32
TS418	160	Max WS	UF_TR30_D4	2.00	355.83	356.52	356.26	356.54	0.004262	0.72			2.77	5.75	0.33
TS418	150		Bridge												
TS418	140	Max WS	UF_TR30_D1	2.84	355.22	356.32		356.36	0.003756	0.89			3.18	3.05	0.28
TS418	140	Max WS	UF_TR30_D2	3.04	355.22	356.35		356.39	0.004011	0.93			3.26	3.05	0.29
TS418	140	Max WS	UF_TR30_D3	2.32	355.22	356.30		356.33	0.002607	0.74			3.13	3.05	0.23
TS418	140	Max WS	UF_TR30_D4	1.95	355.22	356.22		356.24	0.002354	0.68			2.87	3.05	0.22
TS418	100	Max WS	UF_TR30_D1	2.83	354.83	356.33		356.35	0.001515	0.64			4.41	3.07	0.17
TS418	100	Max WS	UF_TR30_D2	3.04	354.83	356.36		356.38	0.001670	0.68			4.49	3.07	0.18
TS418	100	Max WS	UF_TR30_D3	2.30	354.83	356.31		356.32	0.001041	0.53			4.35	3.07	0.14
TS418	100	Max WS	UF_TR30_D4	1.92	354.83	356.23		356.24	0.000861	0.47			4.09	3.07	0.13

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

FOSSO DELLE CORTI

MODELLAZIONE PER TR=30 e 200 ANNI

DURATA DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

Sezioni Trasversali

Dati idraulici

ALLEGATI

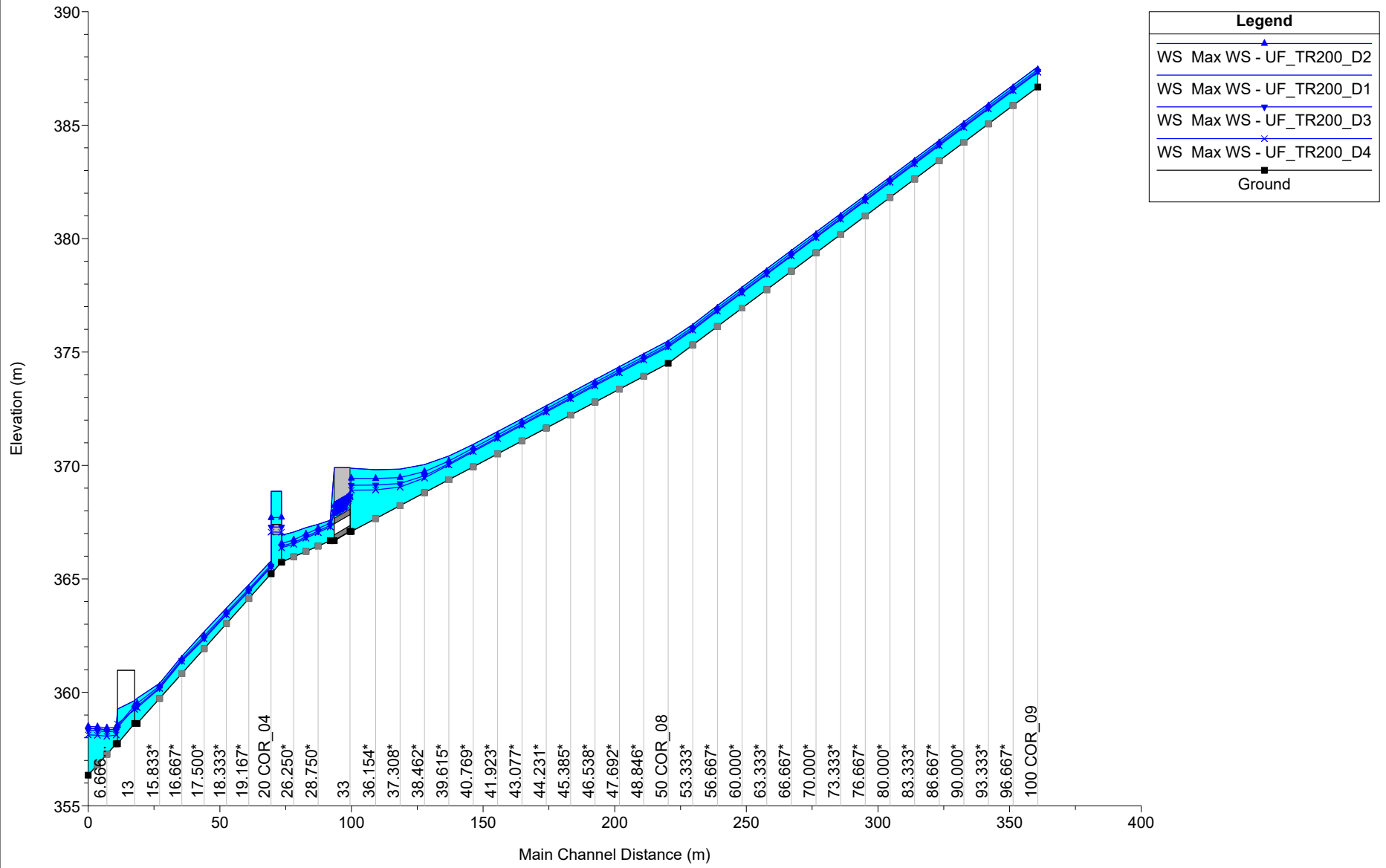
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

FOSSO DELLE CORTI

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale



ALLEGATI

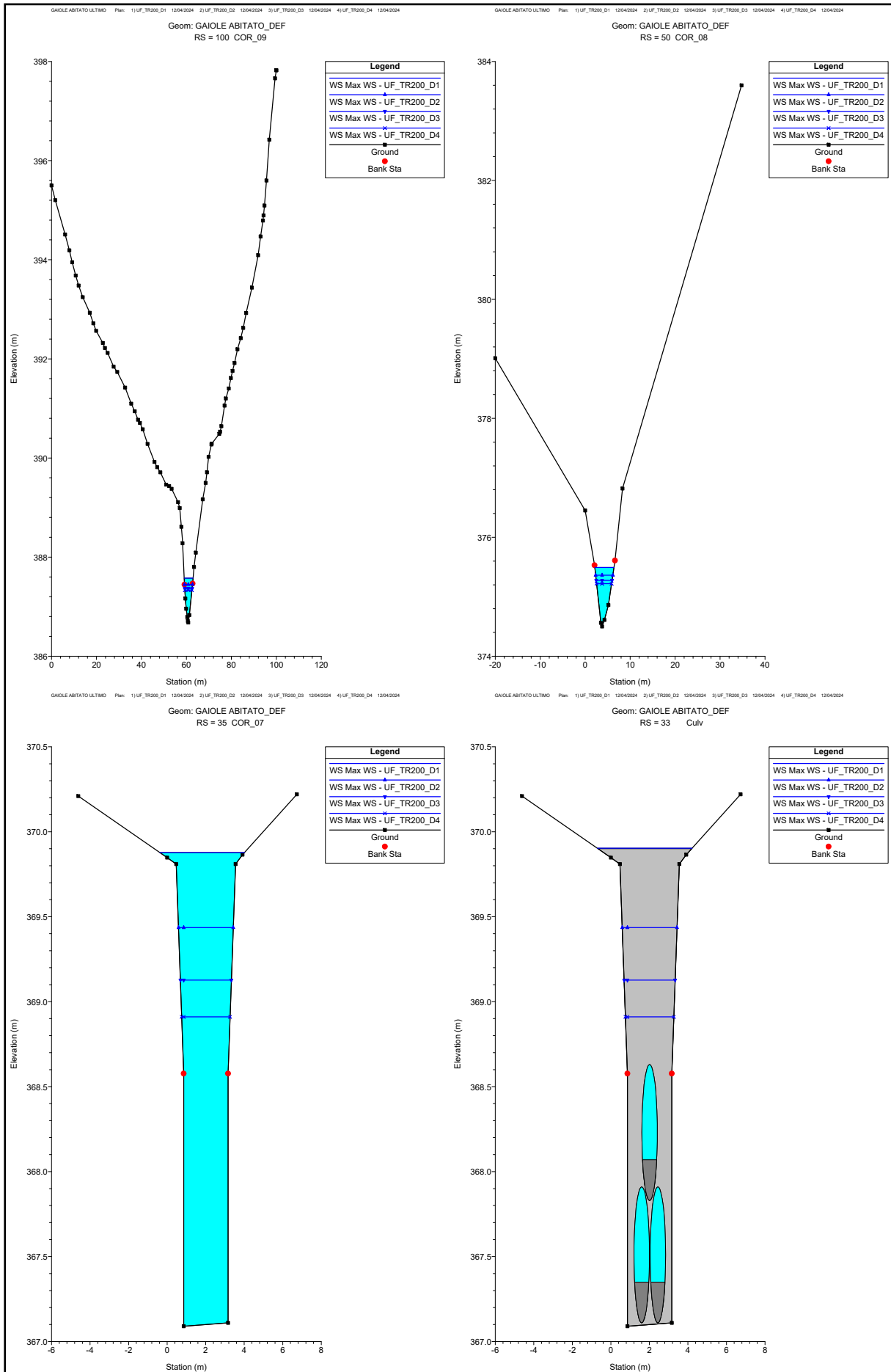
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

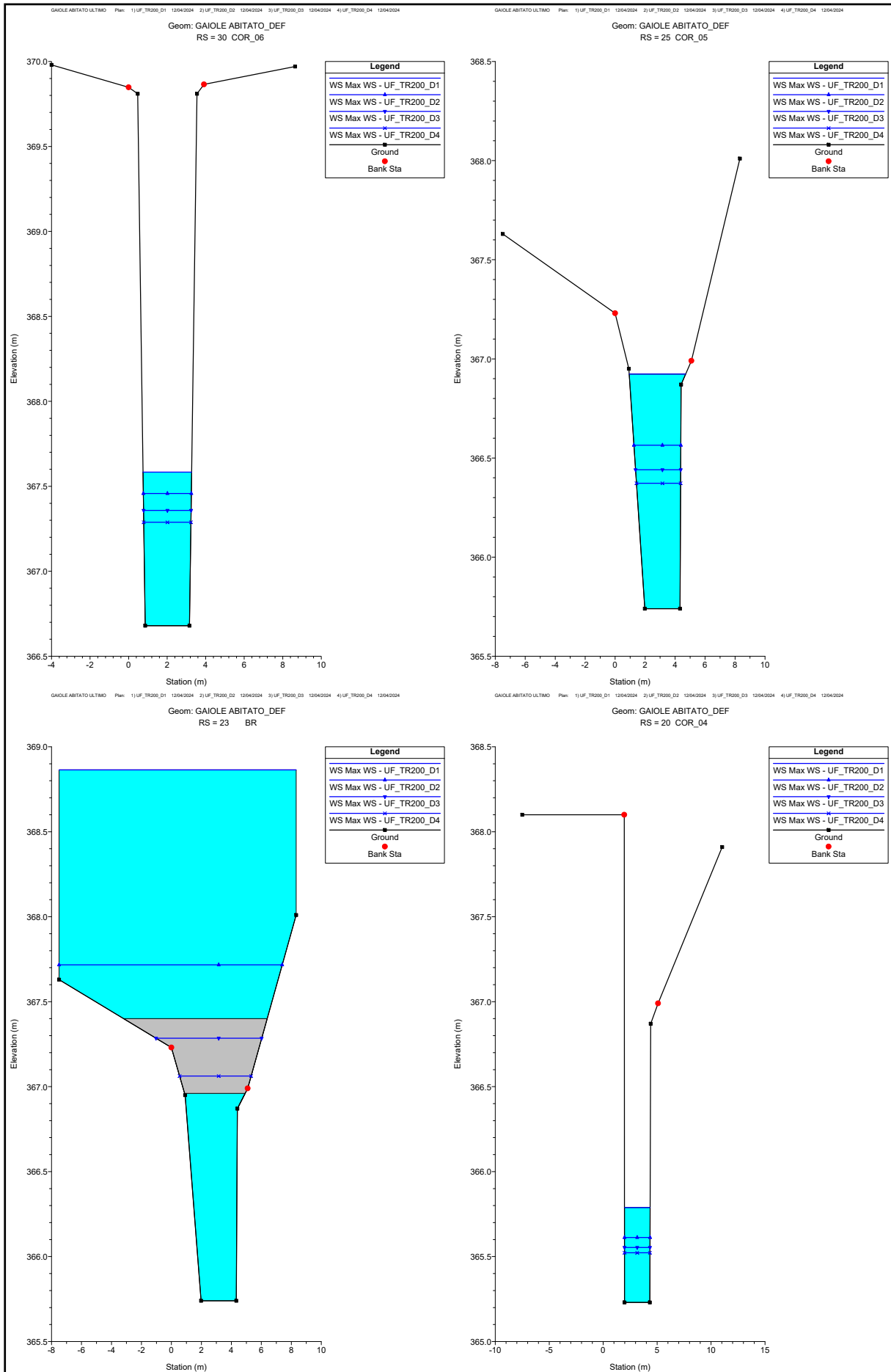
FOSSO DELLE CORTI

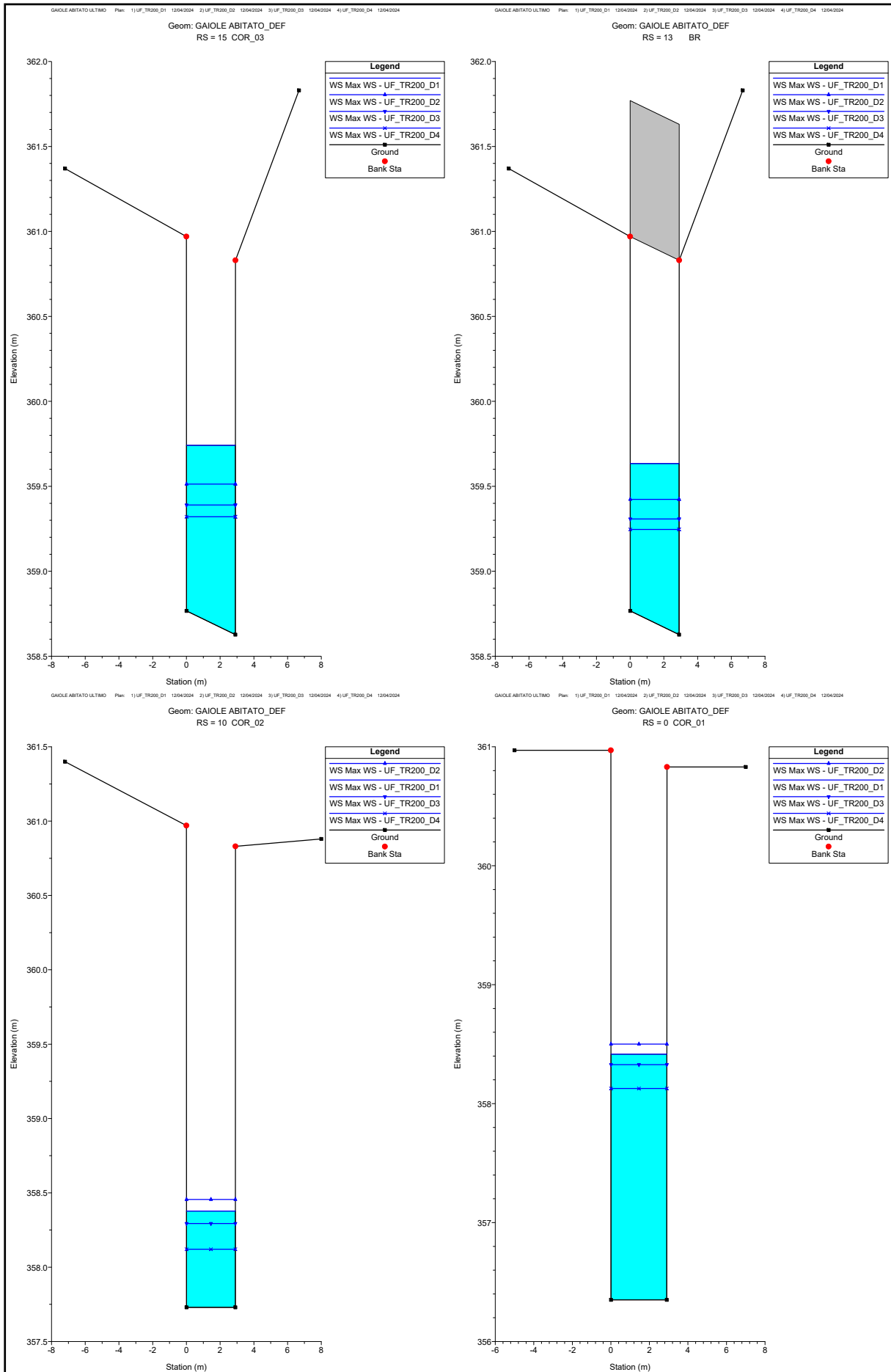
MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

FOSSO DELLE CORTI

MODELLAZIONE PER TR= 200 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: FOSSO DELLE CORT Reach: FOSSO DELLE CORT 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
FOSSO DELLE CORT	100	Max WS	UF_TR200_D1	7.69	386.68	387.58	387.80	388.31	0.087851	3.81	0.66	0.39	2.04	3.91	1.62
FOSSO DELLE CORT	100	Max WS	UF_TR200_D2	5.56	386.68	387.45	387.64	388.10	0.106869	3.57			1.56	3.51	1.71
FOSSO DELLE CORT	100	Max WS	UF_TR200_D3	4.32	386.68	387.37	387.54	387.93	0.104015	3.31			1.31	3.25	1.66
FOSSO DELLE CORT	100	Max WS	UF_TR200_D4	3.66	386.68	387.33	387.48	387.82	0.098243	3.10			1.18	3.12	1.61
FOSSO DELLE CORT	50	Max WS	UF_TR200_D1	7.69	374.50	375.49	375.63	376.00	0.061086	3.16			2.43	4.26	1.34
FOSSO DELLE CORT	50	Max WS	UF_TR200_D2	5.56	374.50	375.36	375.48	375.80	0.061729	2.92			1.91	3.82	1.32
FOSSO DELLE CORT	50	Max WS	UF_TR200_D3	4.32	374.50	375.28	375.37	375.65	0.061372	2.72			1.59	3.52	1.30
FOSSO DELLE CORT	50	Max WS	UF_TR200_D4	3.66	374.50	375.22	375.31	375.57	0.062396	2.62			1.40	3.33	1.29
FOSSO DELLE CORT	36.15														
			Lat Struct												
FOSSO DELLE CORT	36.14														
			Lat Struct												
FOSSO DELLE CORT	35	Max WS	UF_TR200_D1	5.94	367.09	369.88		369.92	0.001607	0.91	0.18	0.20	6.97	4.39	0.17
FOSSO DELLE CORT	35	Max WS	UF_TR200_D2	5.22	367.09	369.44		369.48	0.002252	0.96	0.20	0.20	5.61	2.84	0.20
FOSSO DELLE CORT	35	Max WS	UF_TR200_D3	4.31	367.09	369.13		369.17	0.002492	0.92	0.16	0.16	4.76	2.65	0.21
FOSSO DELLE CORT	35	Max WS	UF_TR200_D4	3.06	367.09	368.91		368.94	0.001834	0.73	0.10	0.10	4.20	2.51	0.17
FOSSO DELLE CORT	33														
			Culvert												
FOSSO DELLE CORT	30	Max WS	UF_TR200_D1	5.94	366.68	367.58		367.96	0.043434	2.73			2.18	2.53	0.94
FOSSO DELLE CORT	30	Max WS	UF_TR200_D2	5.22	366.68	367.46	367.47	367.86	0.051891	2.80			1.86	2.49	1.03
FOSSO DELLE CORT	30	Max WS	UF_TR200_D3	4.31	366.68	367.36	367.38	367.72	0.052912	2.67			1.62	2.47	1.05
FOSSO DELLE CORT	30	Max WS	UF_TR200_D4	3.66	366.68	367.29	367.31	367.62	0.052541	2.53			1.45	2.45	1.05
FOSSO DELLE CORT	28.74														
			Lat Struct												
FOSSO DELLE CORT	28.73														
			Lat Struct												
FOSSO DELLE CORT	25	Max WS	UF_TR200_D1	9.79	365.74	366.92	366.86	367.33	0.009067	2.84			3.45	3.77	0.95
FOSSO DELLE CORT	25	Max WS	UF_TR200_D2	5.56	365.74	366.56	366.52	366.87	0.008870	2.46			2.26	3.13	0.93
FOSSO DELLE CORT	25	Max WS	UF_TR200_D3	4.31	365.74	366.44	366.41	366.71	0.008992	2.30			1.88	3.01	0.93
FOSSO DELLE CORT	25	Max WS	UF_TR200_D4	3.66	365.74	366.37	366.34	366.62	0.008957	2.18			1.68	2.95	0.92
FOSSO DELLE CORT	23														
			Bridge												
FOSSO DELLE CORT	20	Max WS	UF_TR200_D1	9.79	365.23	365.79	366.43	368.59	0.124320	7.41			1.32	2.38	3.18
FOSSO DELLE CORT	20	Max WS	UF_TR200_D2	5.56	365.23	365.61	366.05	367.55	0.123793	6.16			0.90	2.37	3.19
FOSSO DELLE CORT	20	Max WS	UF_TR200_D3	4.31	365.23	365.55	365.93	367.18	0.123638	5.65			0.76	2.37	3.18
FOSSO DELLE CORT	20	Max WS	UF_TR200_D4	3.66	365.23	365.52	365.85	366.96	0.121731	5.31			0.69	2.36	3.14
FOSSO DELLE CORT	15	Max WS	UF_TR200_D1	8.16	358.63	359.74	359.63	360.11	0.008879	2.70			3.02	2.90	0.84
FOSSO DELLE CORT	15	Max WS	UF_TR200_D2	5.56	358.63	359.51	359.42	359.80	0.008253	2.36			2.36	2.90	0.83
FOSSO DELLE CORT	15	Max WS	UF_TR200_D3	4.31	358.63	359.39	359.31	359.63	0.007941	2.15			2.01	2.90	0.83
FOSSO DELLE CORT	15	Max WS	UF_TR200_D4	3.66	358.63	359.32	359.24	359.53	0.007770	2.03			1.81	2.90	0.82
FOSSO DELLE CORT	13														
			Bridge												
FOSSO DELLE CORT	10	Max WS	UF_TR200_D1	4.51	357.73	358.38	358.36	358.67	0.010600	2.41			1.87	2.89	0.96
FOSSO DELLE CORT	10	Max WS	UF_TR200_D2	5.18	357.73	358.46		358.77	0.010022	2.47			2.10	2.89	0.93
FOSSO DELLE CORT	10	Max WS	UF_TR200_D3	4.25	357.73	358.29	358.33	358.64	0.014188	2.61			1.63	2.89	1.11
FOSSO DELLE CORT	10	Max WS	UF_TR200_D4	3.62	357.73	358.12	358.27	358.65	0.030984	3.21			1.13	2.89	1.84
FOSSO DELLE CORT	0	Max WS	UF_TR200_D1	4.50	356.35	358.42		358.44	0.000439	0.75			5.98	2.90	0.17
FOSSO DELLE CORT	0	Max WS	UF_TR200_D2	5.20	356.35	358.50		358.54	0.000529	0.84			6.23	2.90	0.18
FOSSO DELLE CORT	0	Max WS	UF_TR200_D3	4.25	356.35	358.33		358.36	0.000438	0.74			5.72	2.90	0.17
FOSSO DELLE CORT	0	Max WS	UF_TR200_D4	3.60	356.35	358.13		358.15	0.000414	0.70			5.14	2.90	0.17

ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

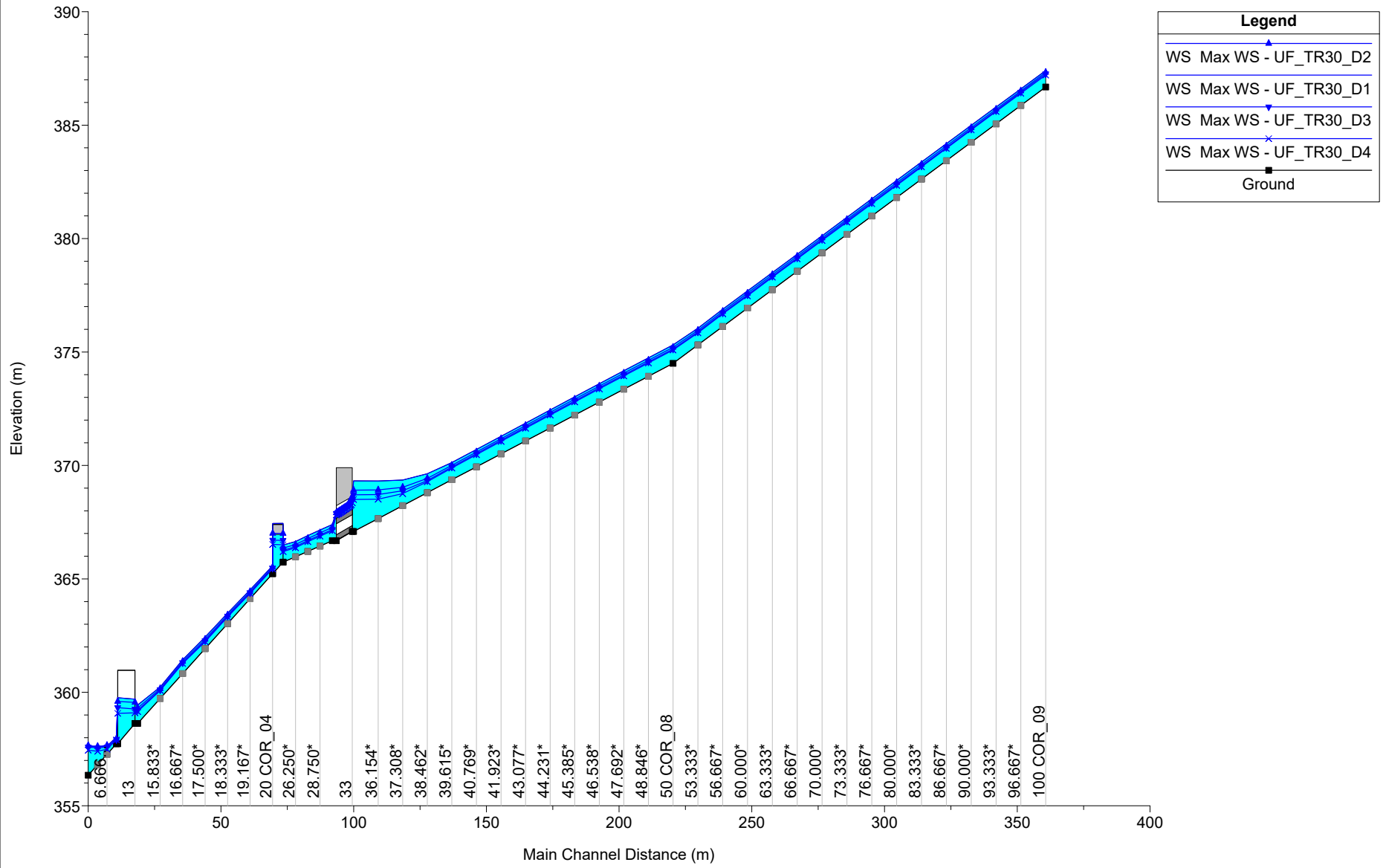
FOSSO DELLE CORTI

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Profilo longitudinale

GAIOLE ABITATO ULTIMO Plan: 1) UF_TR30_D1 12/04/2024 2) UF_TR30_D2 12/04/2024 3) UF_TR30_D3 12/04/2024 4) UF_TR30_D4 12/04/2024



ALLEGATI

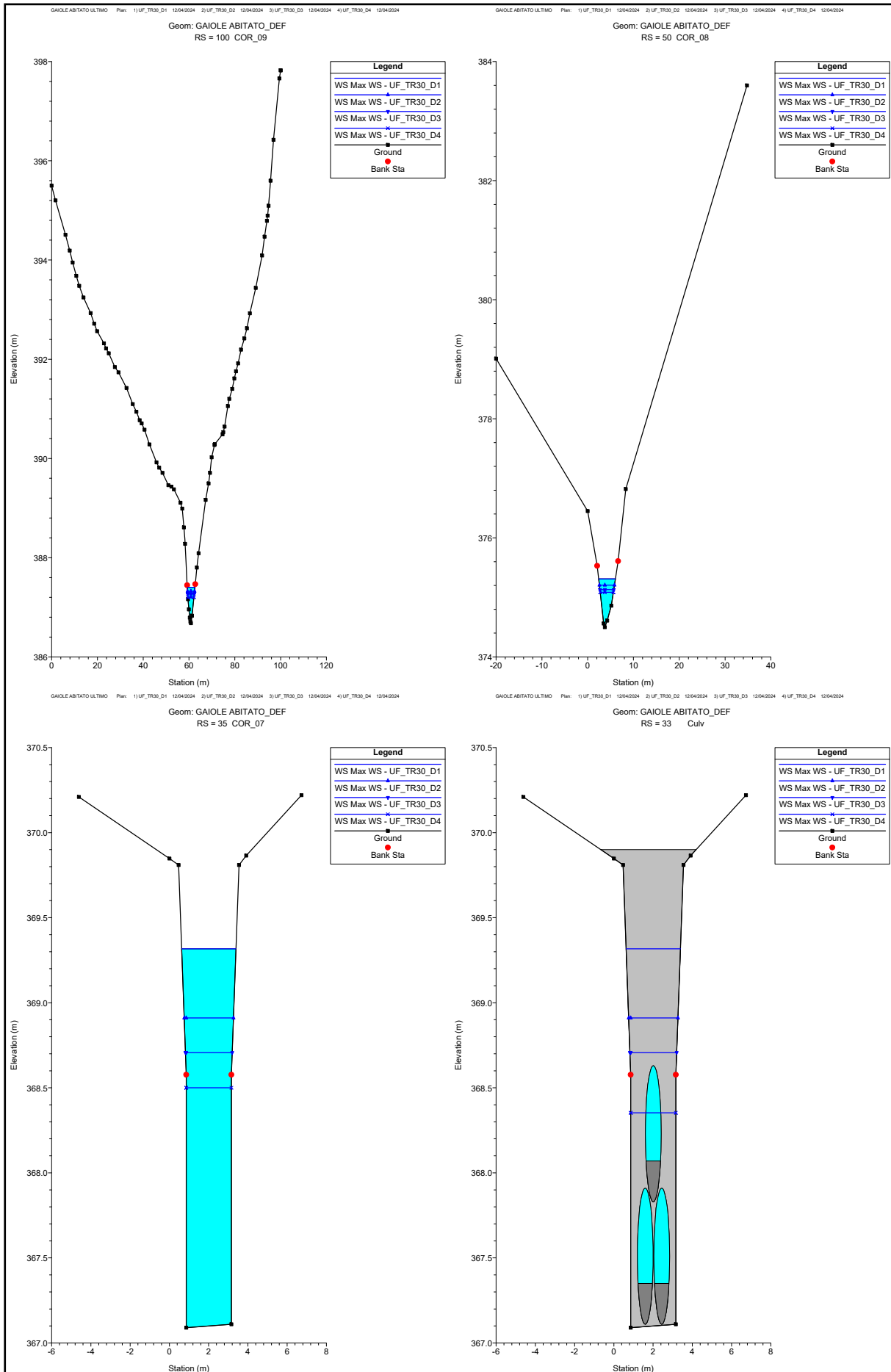
MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

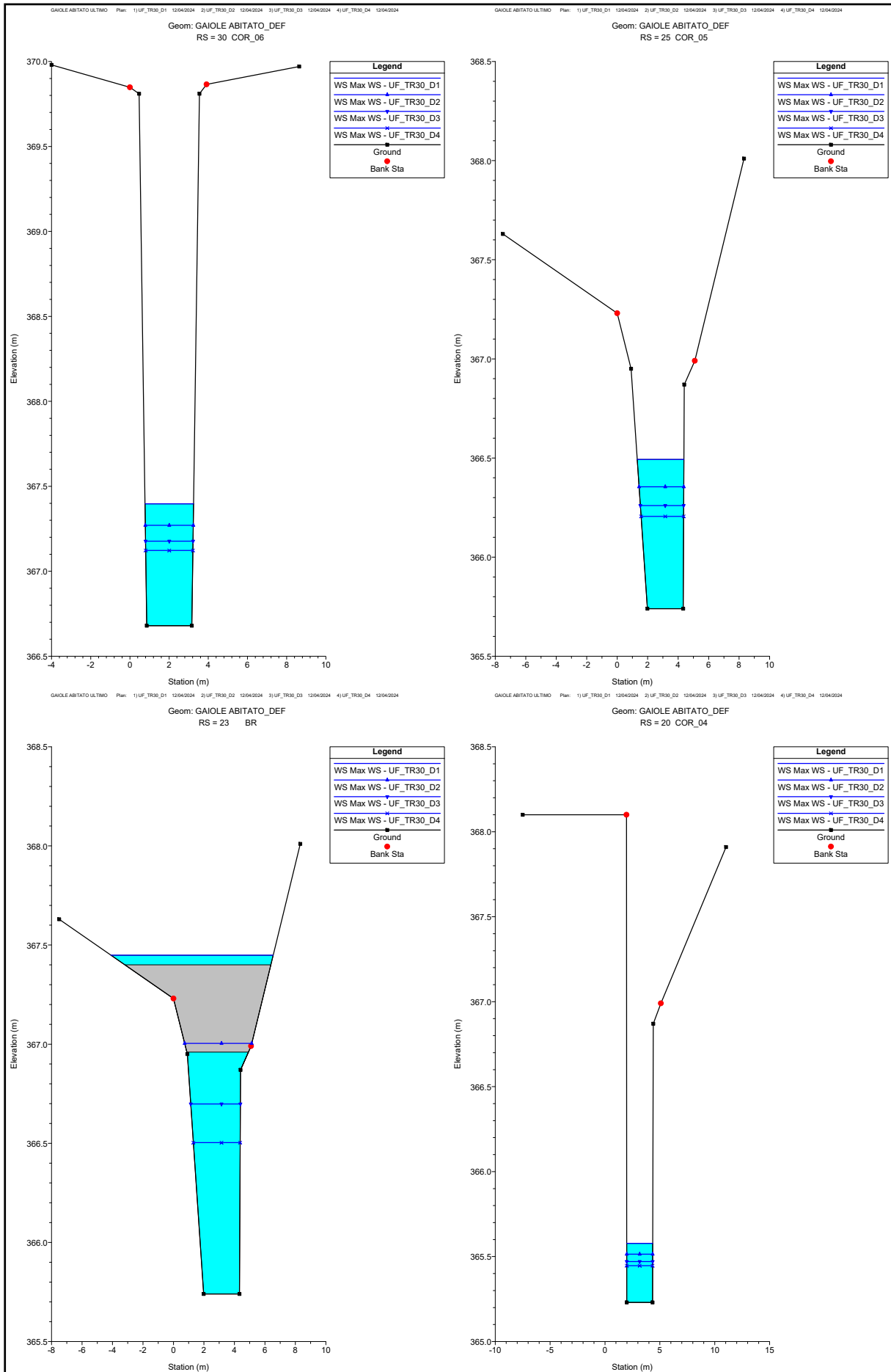
FOSSO DELLE CORTI

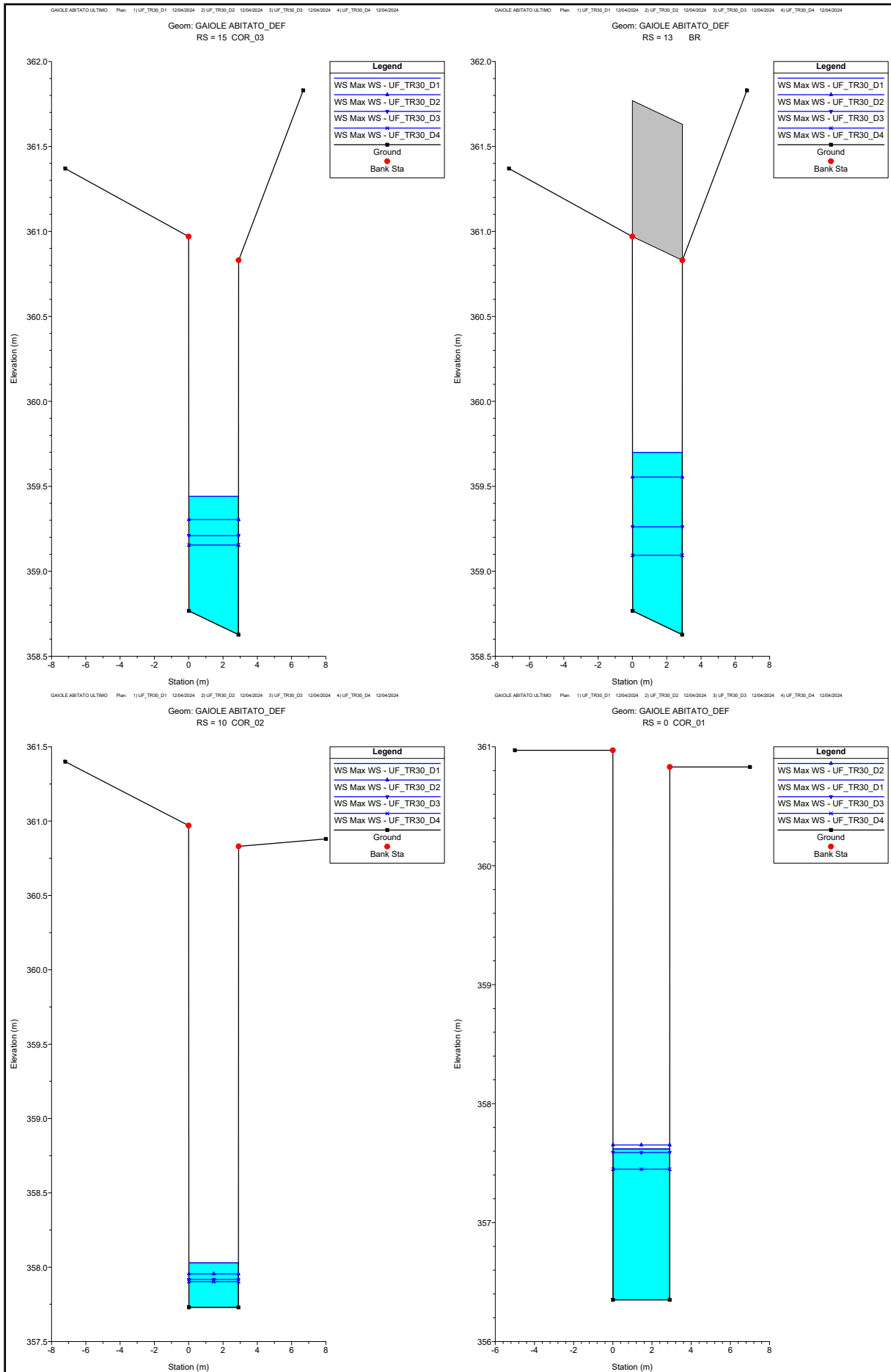
MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Sezioni Trasversali (da monte verso valle)







ALLEGATI

MODELLAZIONE HEC-RAS 6.3.1 "GAIOLE ABITATO ULTIMO"

FOSSO DELLE CORTI

MODELLAZIONE PER TR= 30 anni

DURATE DI PIOGGIA: 1, 2, 3 e 4 h

Dati idraulici

HEC-RAS River: FOSSO DELLE CORT Reach: FOSSO DELLE CORT 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
FOSSO DELLE CORT	100	Max WS	UF_TR30_D1	4.82	386.68	387.40	387.58	388.00	0.106200	3.43			1.41	3.36	1.69
FOSSO DELLE CORT	100	Max WS	UF_TR30_D2	3.50	386.68	387.32	387.47	387.79	0.096227	3.04			1.15	3.08	1.59
FOSSO DELLE CORT	100	Max WS	UF_TR30_D3	2.70	386.68	387.26	387.38	387.65	0.090240	2.77			0.98	2.88	1.52
FOSSO DELLE CORT	100	Max WS	UF_TR30_D4	2.26	386.68	387.20	387.33	387.60	0.105836	2.79			0.81	2.67	1.62
FOSSO DELLE CORT	50	Max WS	UF_TR30_D1	4.82	374.50	375.31	375.41	375.71	0.061918	2.81			1.71	3.64	1.31
FOSSO DELLE CORT	50	Max WS	UF_TR30_D2	3.50	374.50	375.21	375.29	375.55	0.062396	2.59			1.35	3.29	1.29
FOSSO DELLE CORT	50	Max WS	UF_TR30_D3	2.70	374.50	375.13	375.20	375.43	0.062724	2.42			1.12	3.03	1.27
FOSSO DELLE CORT	50	Max WS	UF_TR30_D4	2.26	374.50	375.09	375.15	375.36	0.062720	2.30			0.98	2.88	1.26
FOSSO DELLE CORT	36.15														
			Lat Struct												
FOSSO DELLE CORT	36.14														
			Lat Struct												
FOSSO DELLE CORT	35	Max WS	UF_TR30_D1	4.67	367.09	369.32		369.36	0.002149	0.91	0.18	0.18	5.27	2.77	0.19
FOSSO DELLE CORT	35	Max WS	UF_TR30_D2	3.06	367.09	368.91		368.94	0.001837	0.73	0.10	0.10	4.20	2.51	0.17
FOSSO DELLE CORT	35	Max WS	UF_TR30_D3	2.70	367.09	368.71		368.73	0.002131	0.73	0.06	0.06	3.70	2.38	0.18
FOSSO DELLE CORT	35	Max WS	UF_TR30_D4	2.26	367.09	368.50		368.53	0.002273	0.70			3.22	2.30	0.19
FOSSO DELLE CORT	33														
			Culvert												
FOSSO DELLE CORT	30	Max WS	UF_TR30_D1	4.67	366.68	367.40	367.42	367.78	0.052584	2.72			1.71	2.48	1.05
FOSSO DELLE CORT	30	Max WS	UF_TR30_D2	3.50	366.68	367.27	367.29	367.59	0.052602	2.50			1.40	2.45	1.05
FOSSO DELLE CORT	30	Max WS	UF_TR30_D3	2.70	366.68	367.18	367.19	367.45	0.052388	2.30			1.17	2.42	1.05
FOSSO DELLE CORT	30	Max WS	UF_TR30_D4	2.26	366.68	367.12	367.14	367.36	0.052153	2.17			1.04	2.41	1.05
FOSSO DELLE CORT	28.74														
			Lat Struct												
FOSSO DELLE CORT	28.73														
			Lat Struct												
FOSSO DELLE CORT	25	Max WS	UF_TR30_D1	4.82	365.74	366.49	366.45	366.78	0.008911	2.36			2.04	3.06	0.93
FOSSO DELLE CORT	25	Max WS	UF_TR30_D2	3.50	365.74	366.36	366.32	366.59	0.008962	2.15			1.62	2.93	0.92
FOSSO DELLE CORT	25	Max WS	UF_TR30_D3	2.70	365.74	366.26	366.23	366.46	0.009113	2.00			1.35	2.84	0.93
FOSSO DELLE CORT	25	Max WS	UF_TR30_D4	2.26	365.74	366.21	366.18	366.39	0.009112	1.89			1.20	2.79	0.92
FOSSO DELLE CORT	23														
			Bridge												
FOSSO DELLE CORT	20	Max WS	UF_TR30_D1	4.82	365.23	365.58	365.98	367.33	0.123553	5.87			0.82	2.37	3.18
FOSSO DELLE CORT	20	Max WS	UF_TR30_D2	3.50	365.23	365.51	365.84	366.90	0.121077	5.22			0.67	2.36	3.13
FOSSO DELLE CORT	20	Max WS	UF_TR30_D3	2.70	365.23	365.47	365.74	366.62	0.120588	4.76			0.57	2.36	3.10
FOSSO DELLE CORT	20	Max WS	UF_TR30_D4	2.26	365.23	365.45	365.68	366.45	0.118128	4.43			0.51	2.36	3.05
FOSSO DELLE CORT	15	Max WS	UF_TR30_D1	4.82	358.63	359.44	359.35	359.70	0.008062	2.24			2.15	2.90	0.83
FOSSO DELLE CORT	15	Max WS	UF_TR30_D2	3.50	358.63	359.30	359.23	359.51	0.007705	1.99			1.76	2.90	0.82
FOSSO DELLE CORT	15	Max WS	UF_TR30_D3	2.70	358.63	359.21	359.14	359.38	0.007554	1.82			1.48	2.89	0.81
FOSSO DELLE CORT	15	Max WS	UF_TR30_D4	2.26	358.63	359.15	359.09	359.30	0.007489	1.71			1.32	2.89	0.81
FOSSO DELLE CORT	13														
			Bridge												
FOSSO DELLE CORT	10	Max WS	UF_TR30_D1	4.79	357.73	358.03	358.38	359.59	0.122747	5.53			0.87	2.89	3.23
FOSSO DELLE CORT	10	Max WS	UF_TR30_D2	3.46	357.73	357.95	358.25	359.40	0.157603	5.33			0.65	2.89	3.59
FOSSO DELLE CORT	10	Max WS	UF_TR30_D3	2.63	357.73	357.92	358.17	359.12	0.161154	4.85			0.54	2.89	3.58
FOSSO DELLE CORT	10	Max WS	UF_TR30_D4	2.22	357.73	357.90	358.12	358.92	0.150529	4.46			0.50	2.89	3.43
FOSSO DELLE CORT	0	Max WS	UF_TR30_D1	2.00	356.35	357.62		357.63	0.000313	0.55			3.67	2.90	0.15
FOSSO DELLE CORT	0	Max WS	UF_TR30_D2	3.25	356.35	357.65		357.69	0.000771	0.86			3.77	2.90	0.24
FOSSO DELLE CORT	0	Max WS	UF_TR30_D3	1.81	356.35	357.59		357.60	0.000274	0.51			3.58	2.90	0.15
FOSSO DELLE CORT	0	Max WS	UF_TR30_D4	1.58	356.35	357.45		357.46	0.000291	0.50			3.18	2.89	0.15