



COMUNE DI AREZZO

Assessorato Urbanistica

Servizio Pianificazione Urbanistica e Governo del Territorio

Piano Strutturale
2019



PS
PS

B Quadro conoscitivo

B1 Relazione illustrativa - Indagini geologiche e idrauliche

Sindaco
Alessandro Ghinelli

Assessore all'Urbanistica
Marco Sacchetti

Responsabile del Procedimento
Ing. Paolo Frescucci

RTI Raggruppamento Temporaneo di Professionisti

Studio D:RH Architetti associati

Arch. Sergio Dinale

Criteria srl

Arch. Paolo Falqui

Arch. Luca Di Figlia

Dott. Pian.t. Matteo Scamporrino

Avv. Agostino Zanelli Quarantini

B1.2.1e

Settore Sud1 - Fascicolo delle sezioni e profili idraulici

Garante dell'informazione e della partecipazione

Dott.ssa Daniela Farsetti

Dirigente Servizio Pianificazione Urbanistica
Ing. Paolo Frescucci

Dirigente Servizio Ambiente
Ing. Giovanni Baldini

Dirigente Servizio Progettazione Opere Pubbliche
Ing. Antonella Fabbianelli

Dirigente Progetto per lo sviluppo delle attività economiche negli ambiti Edilizia e SUAP e promozione del territorio
Ing. Paolo Frescucci

Direttore Ufficio Mobilità
Ing. Roberto Bernardini

Direttore Ufficio Programmazione e Sviluppo Economico del Territorio
Dott.ssa Stefania Guidelli

Direttore Ufficio Edilizia
Geom. Gianna Pezuoli

Ufficio del Piano

Arch. Omero Angeli
Dott.ssa Antonella Benocci
Sig. Matteo Borri
Dott.ssa Francesca Calabri
Arch. Fulvia Comanducci
Arch. Elisabetta Dreassi
Geol. Alessandro Forzoni
Geom. Valentina Mazzoni
Dott. Vincenzo Oliva
Arch. Laura Pagliai
Ing. Deborah Romei
Arch. Laura Rogialli
Geol. Annalisa Romizi
Pianificatore Territoriale Lorenzo Spadaccini
Sig.ra Fiorenza Verdelli

Gruppo di progettazione

Studio D:RH Architetti associati

Arch. Sergio Dinale
Arch. Paola Rigonat Hugues
Arch. Enrico Robazza
Arch. Kristiana D'Agnolo
Dott. Pian.t. Giulio Brocco

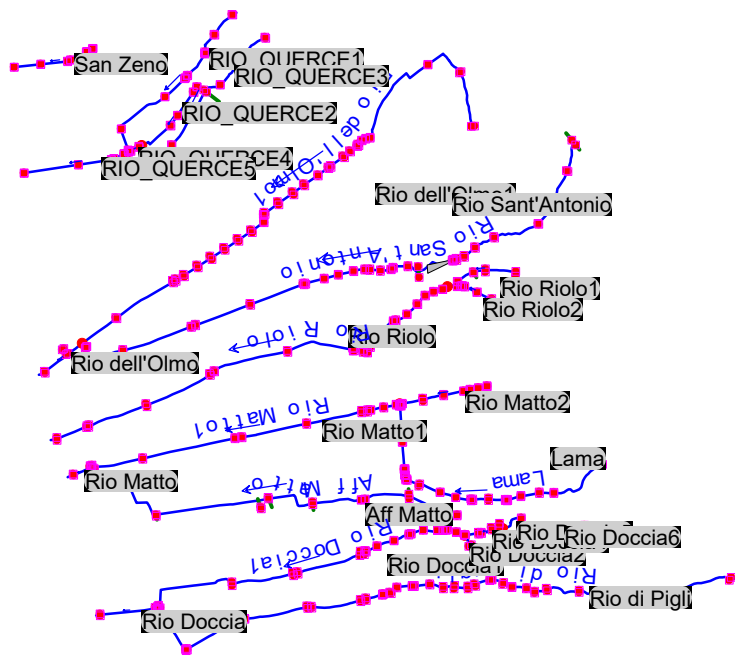
Criteria srl

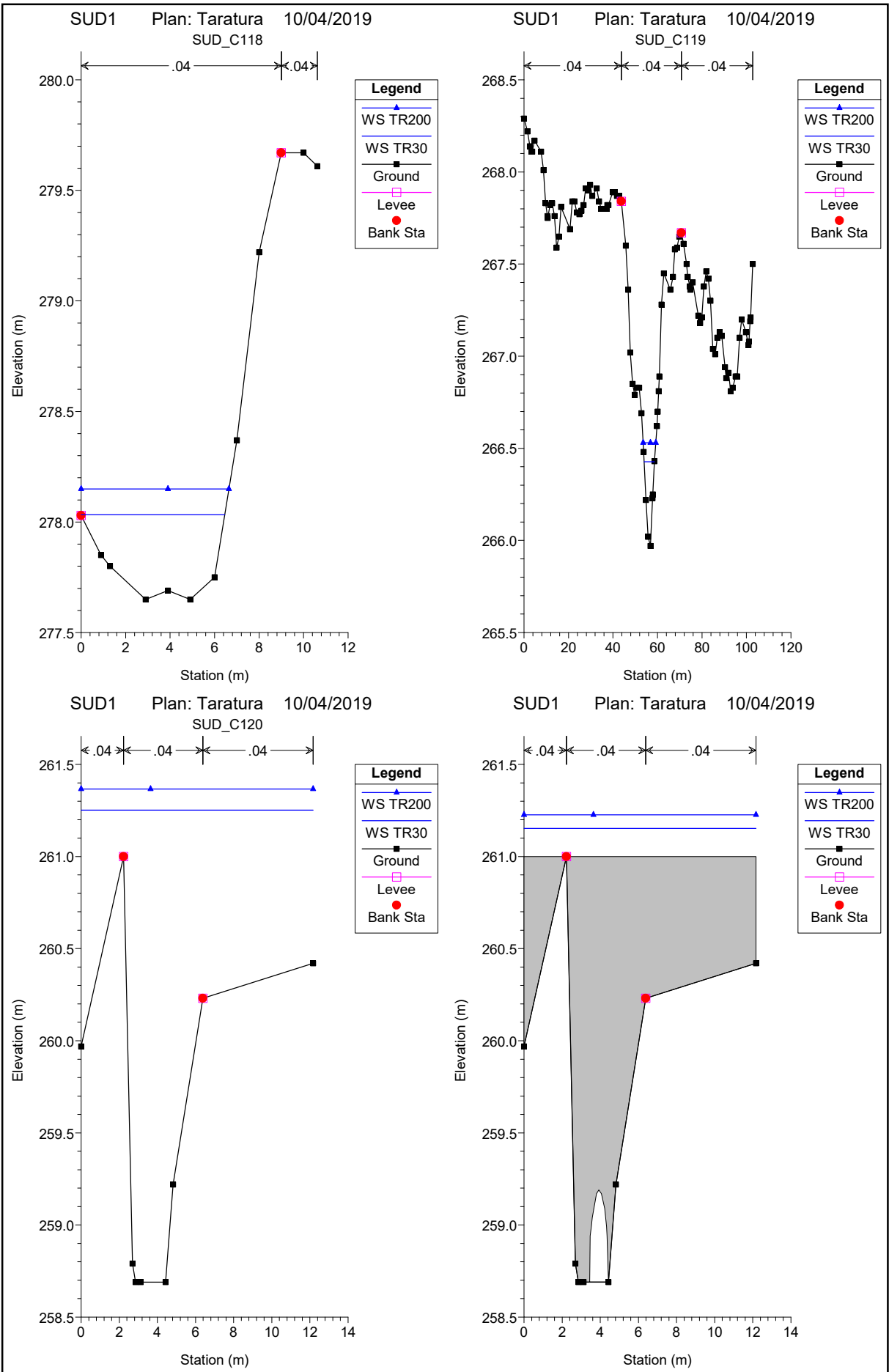
Arch. Paolo Falqui
Ing. Paolo Bagliani
Ing. Roberto Ledda
Biol. Patrizia Carla Sechi
Geol. Andrea Soriga
Arch. Laura Zanini
Dott.ssa Giulia Cubadda
Dott. Riccardo Frau
Arch. Veronica Saddi
Ing. Gianfilippo Serra
Dott. Vittorio Serra
Dott.ssa Cinzia Marcella Orrù
Arch. Salvatore Manca

Indagini geologiche e idrauliche

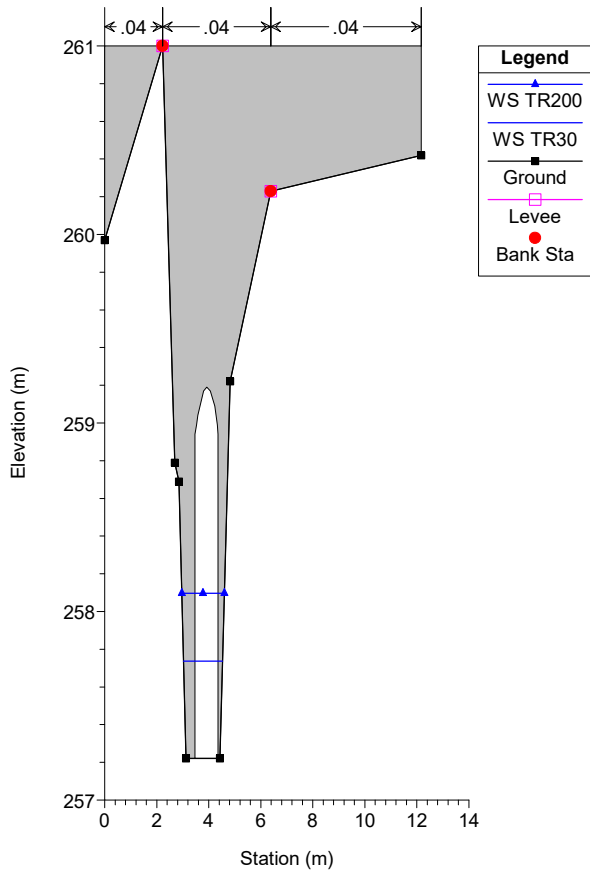
Geol. Maurizio Costa
Geol. Antonio Pitzalis
Ing. Nicola Buchignani (Prima STP)
Ing. Pietro Chiavaccini
Ing. Elisa Formica

Dott. Pian.t. Matteo Scamporrino
Arch Luca Di Figlia
Avv. Agostino Zanelli Quarantini

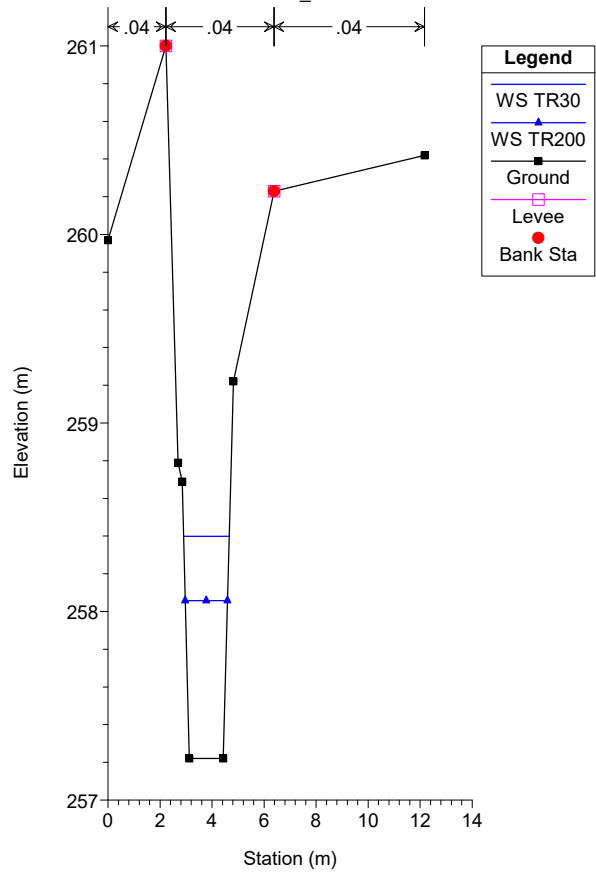




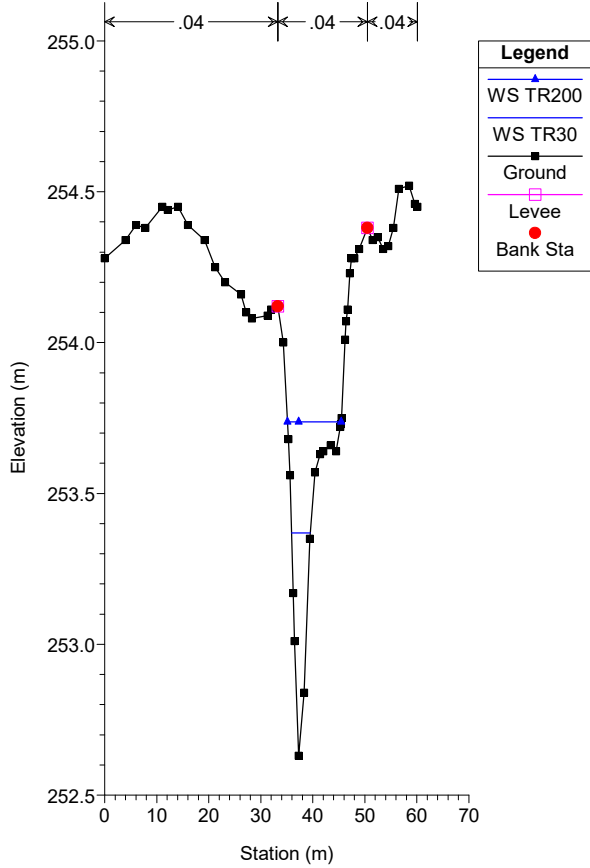
SUD1 Plan: Taratura 10/04/2019



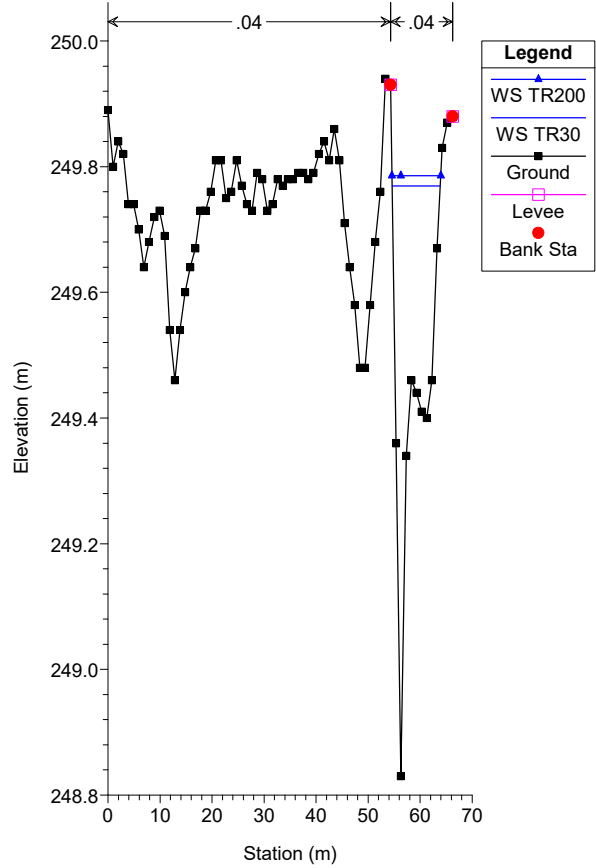
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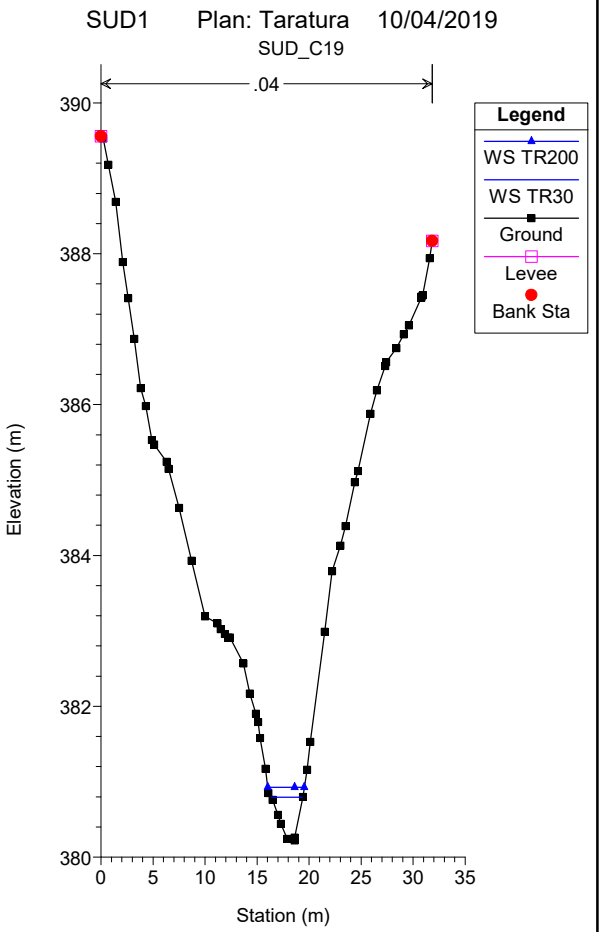
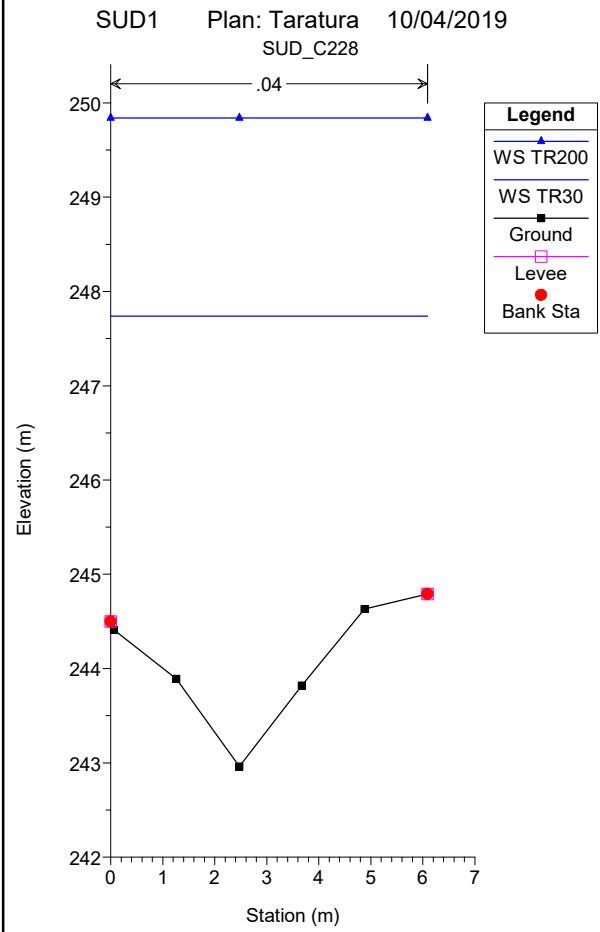
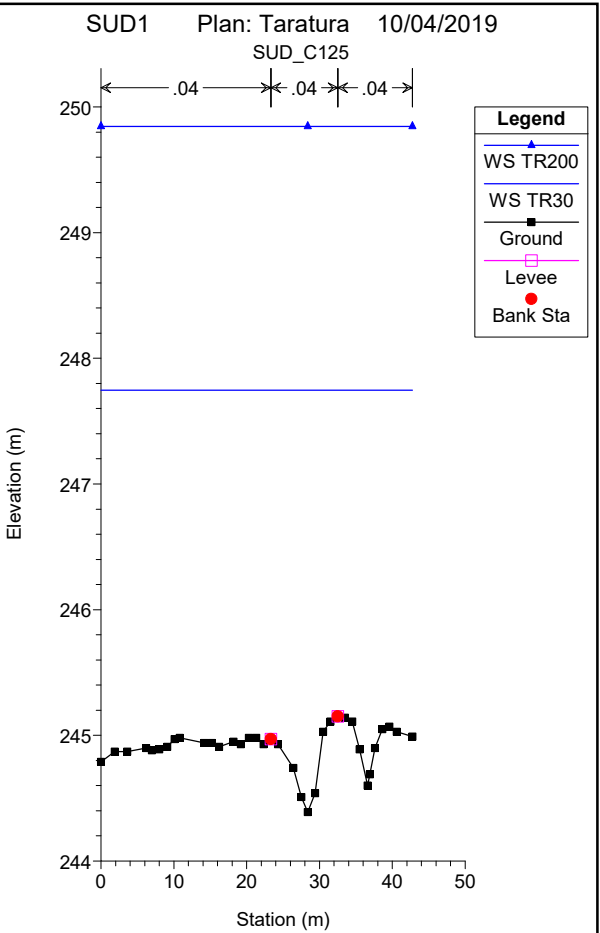
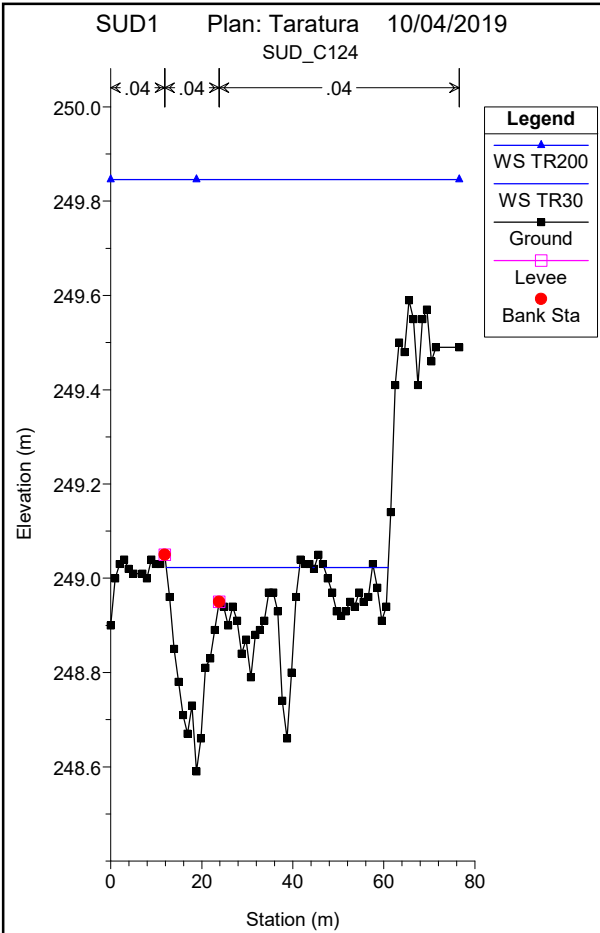


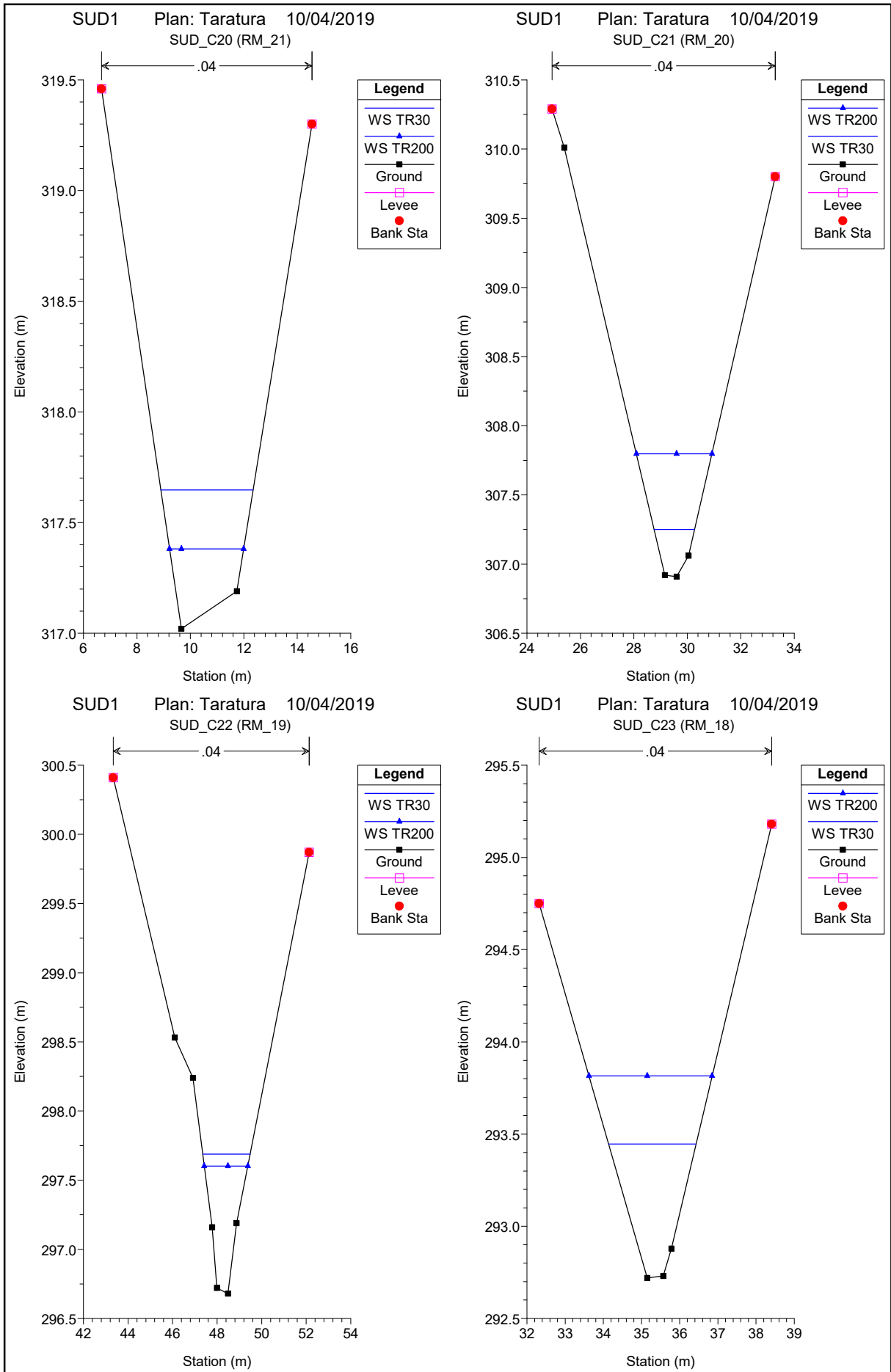
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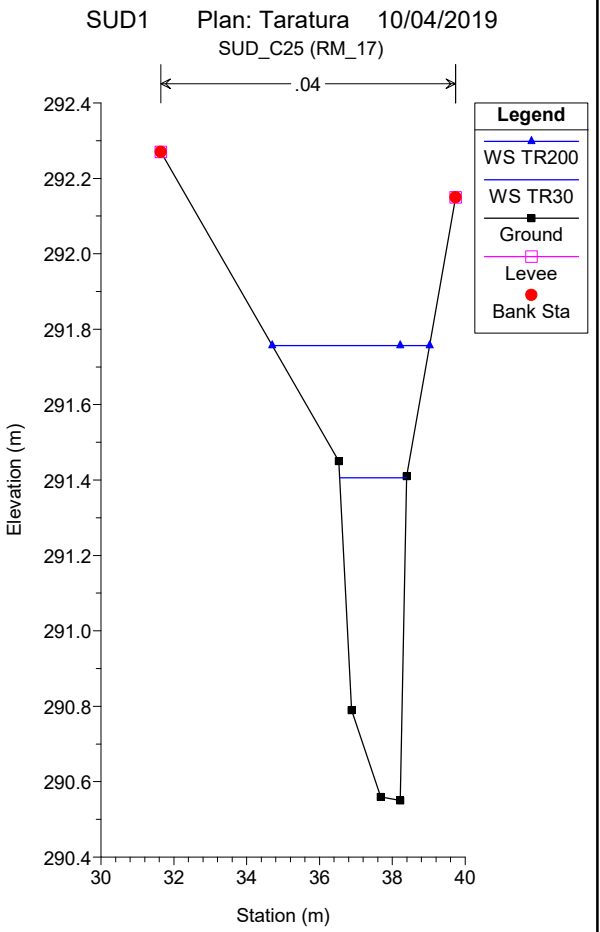
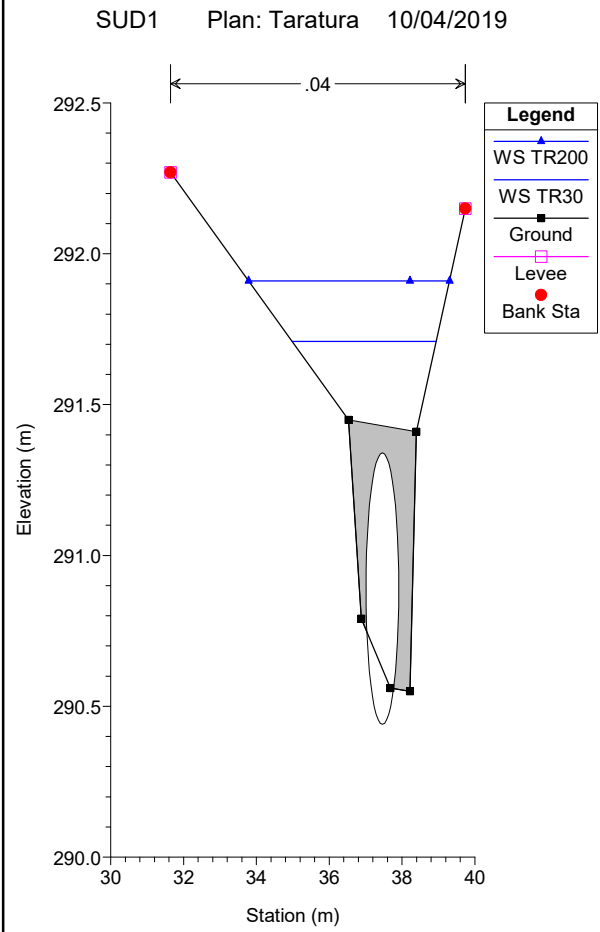
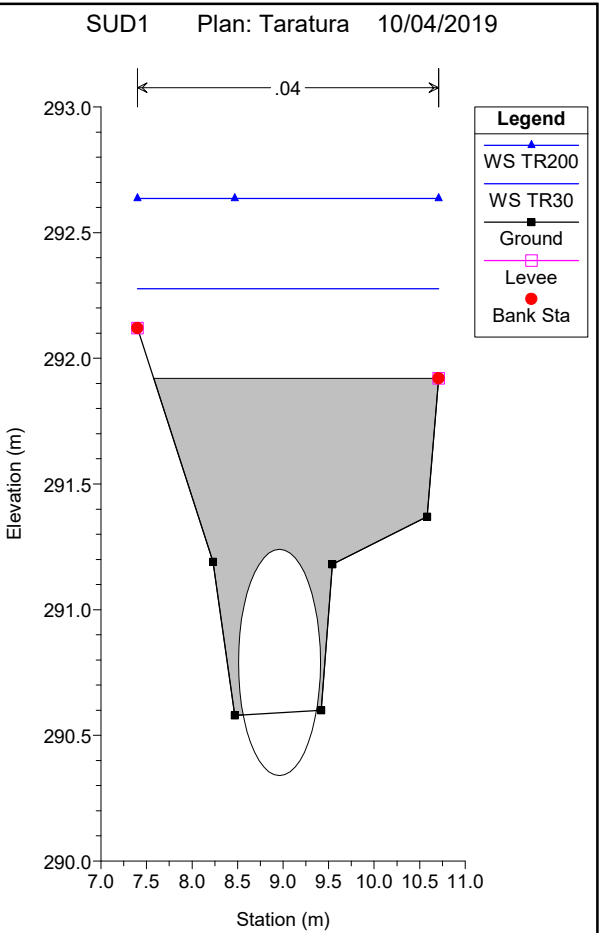
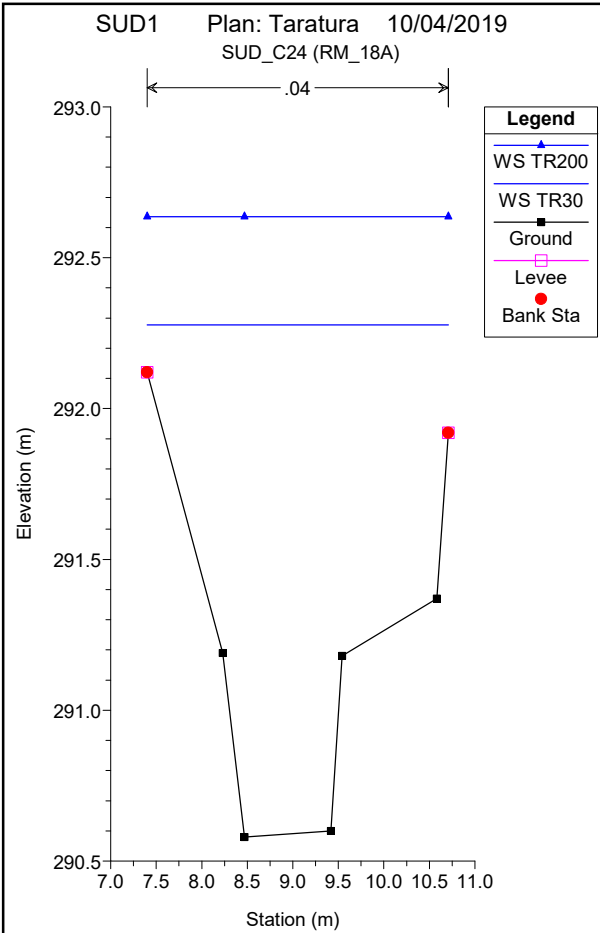


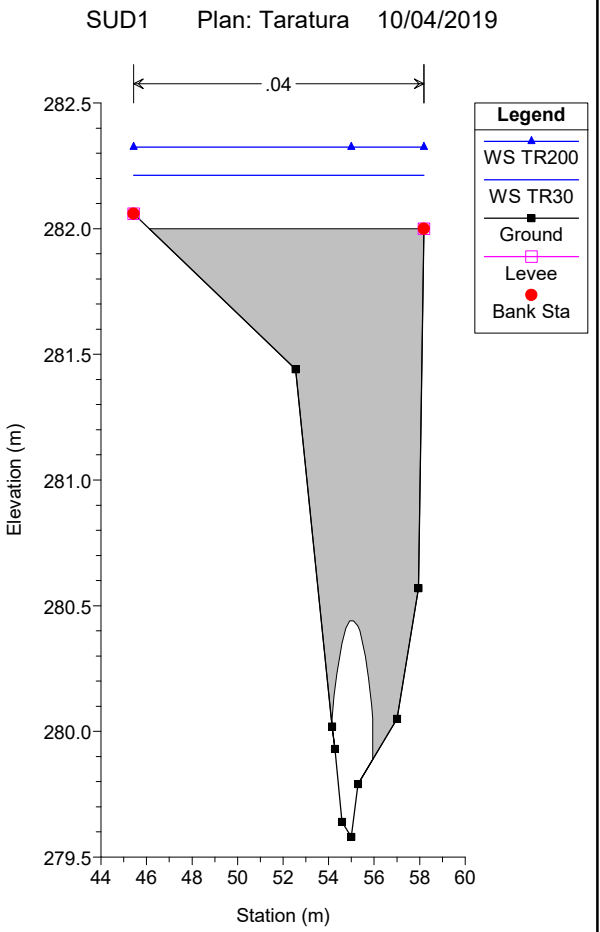
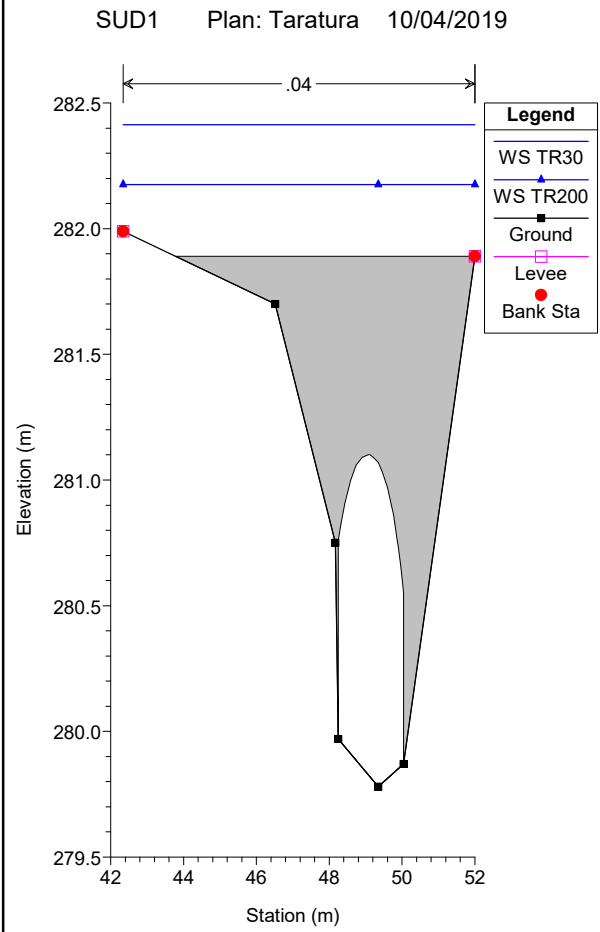
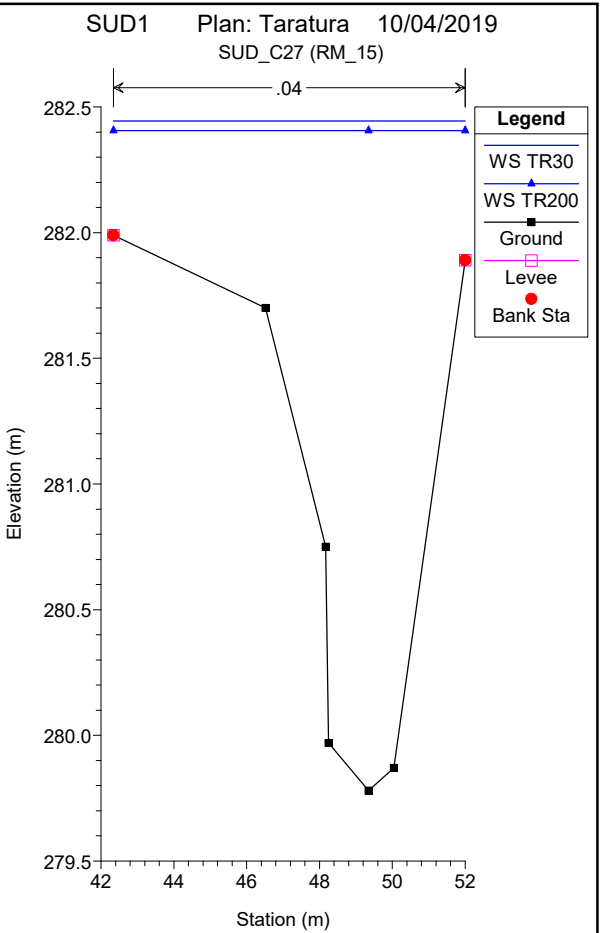
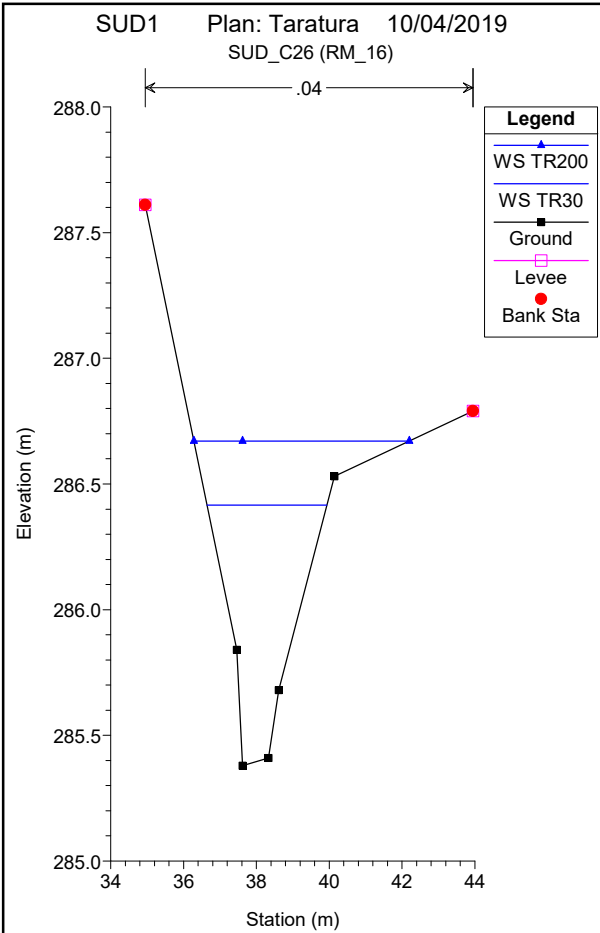
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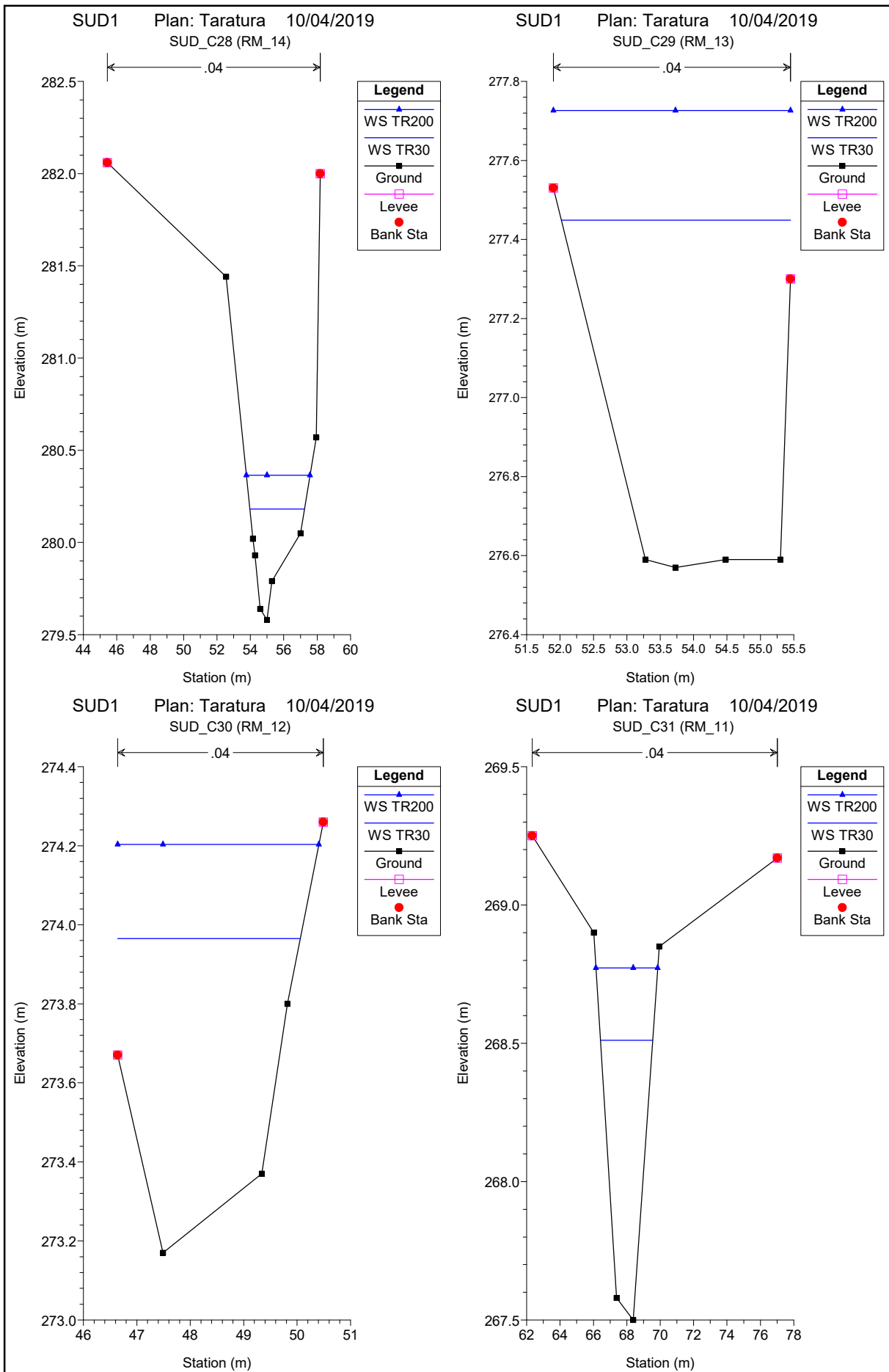




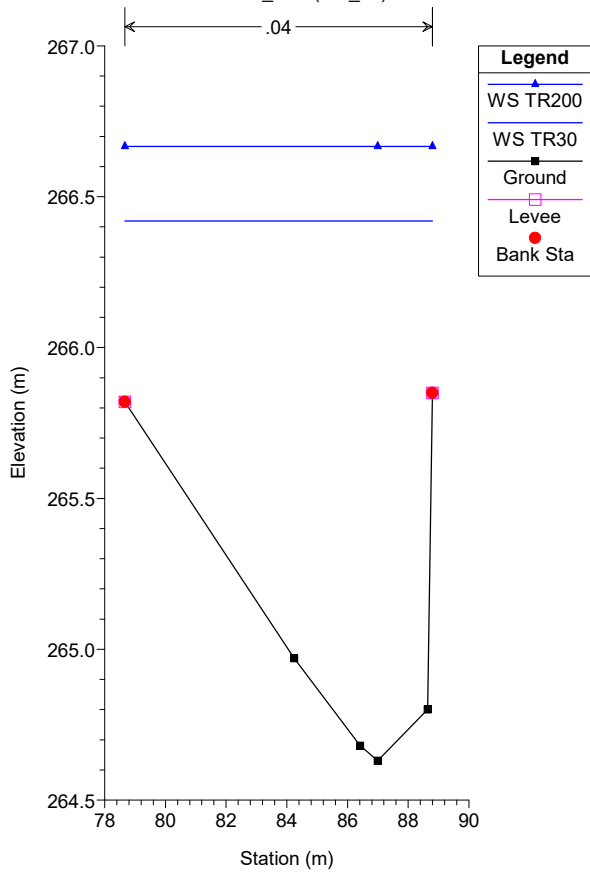




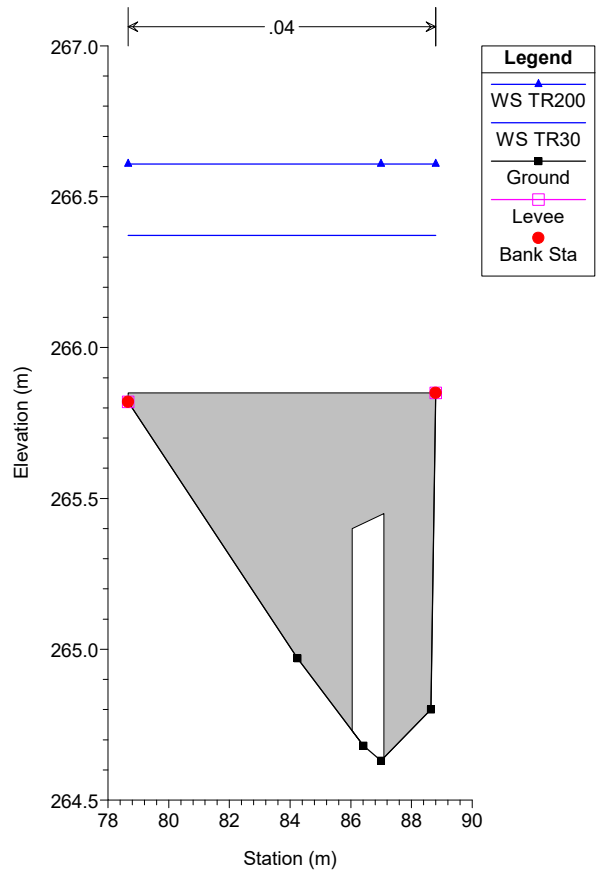




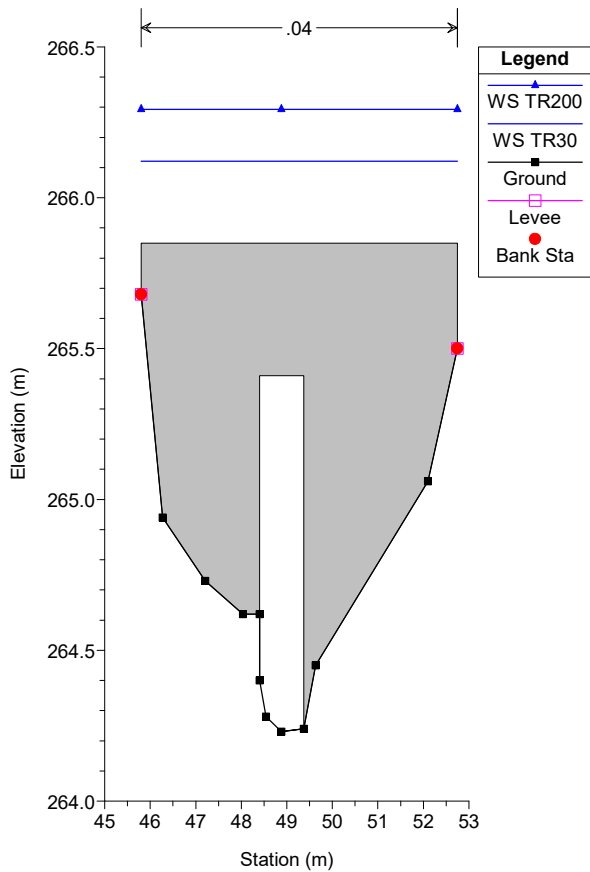
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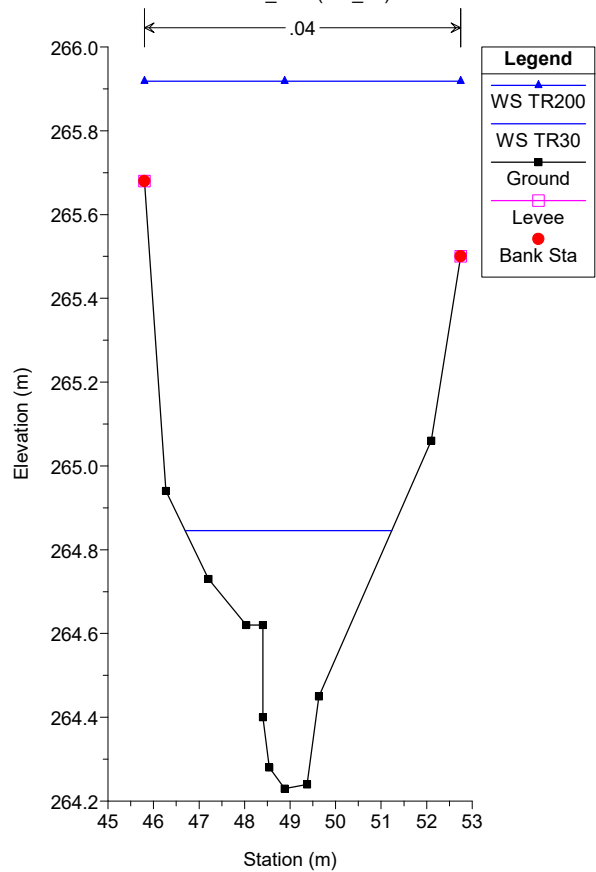
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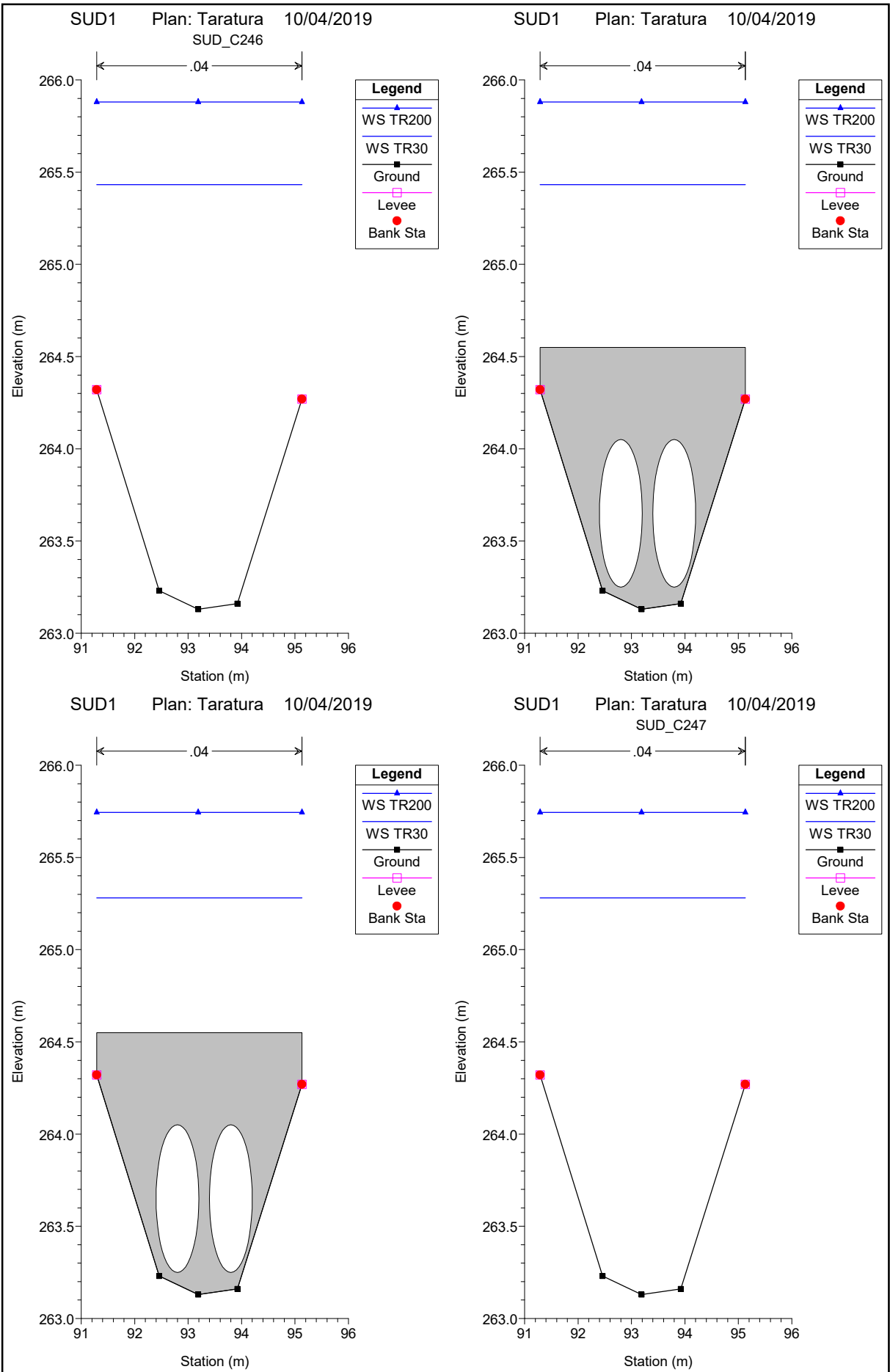


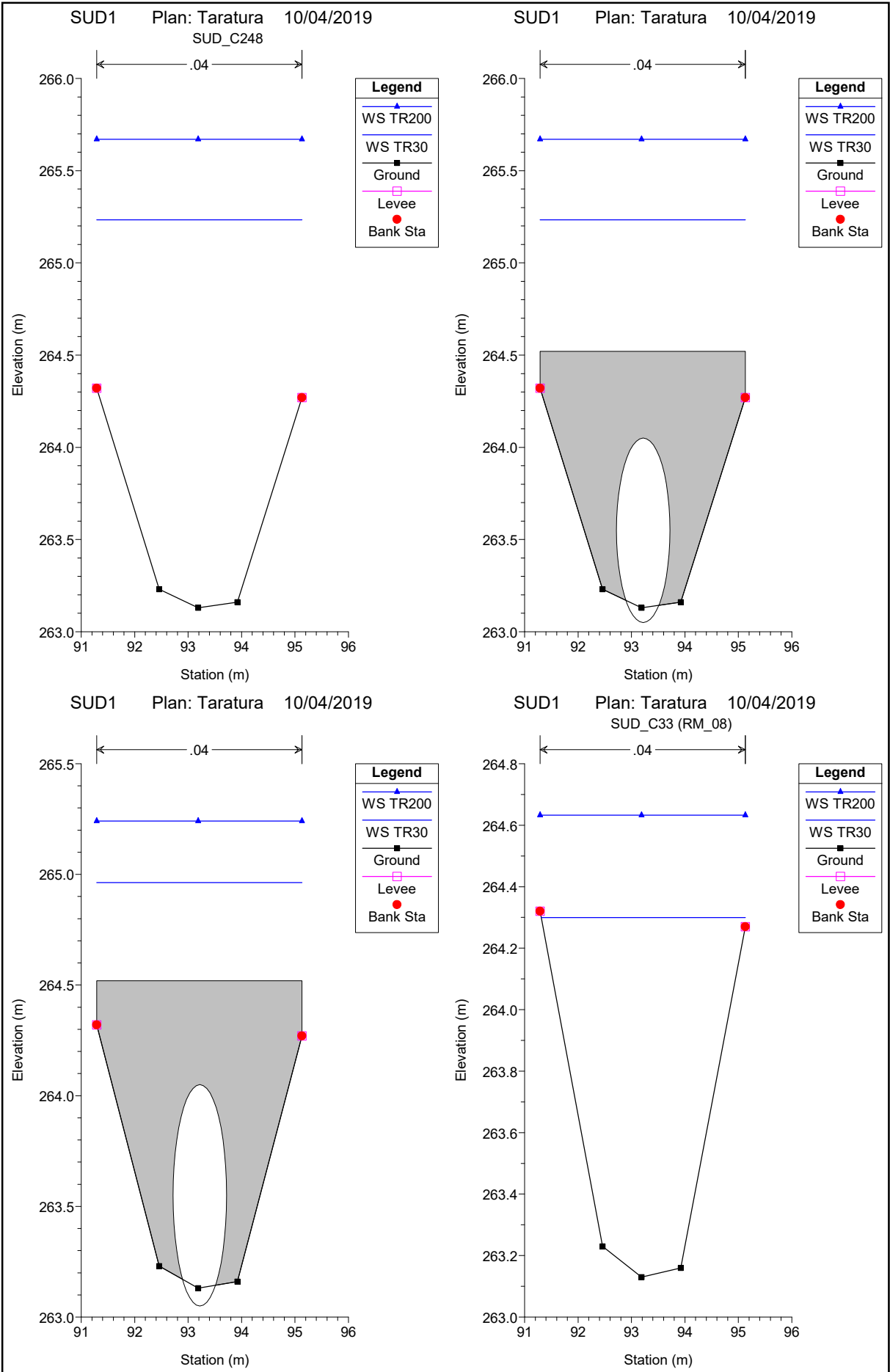
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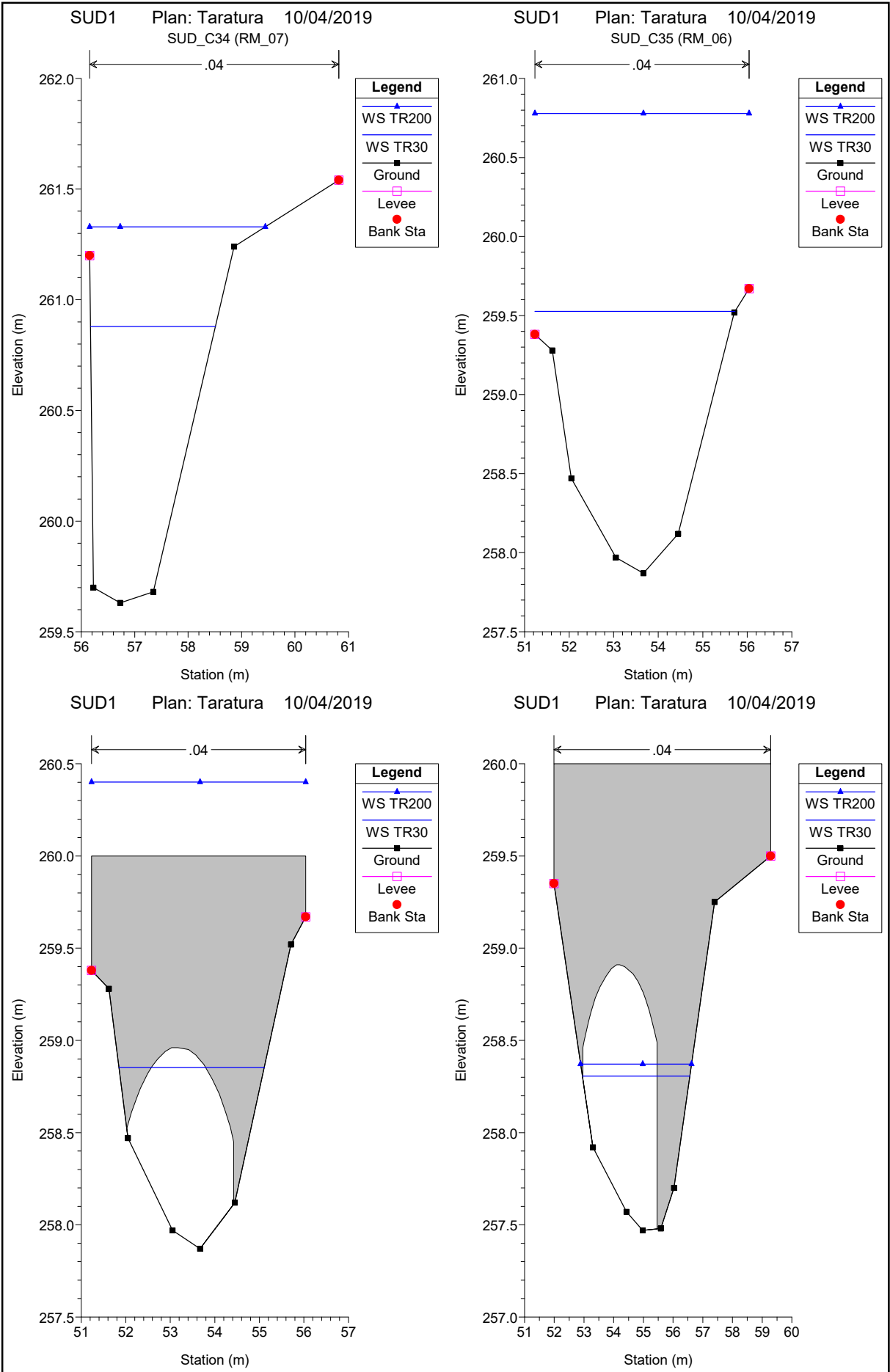


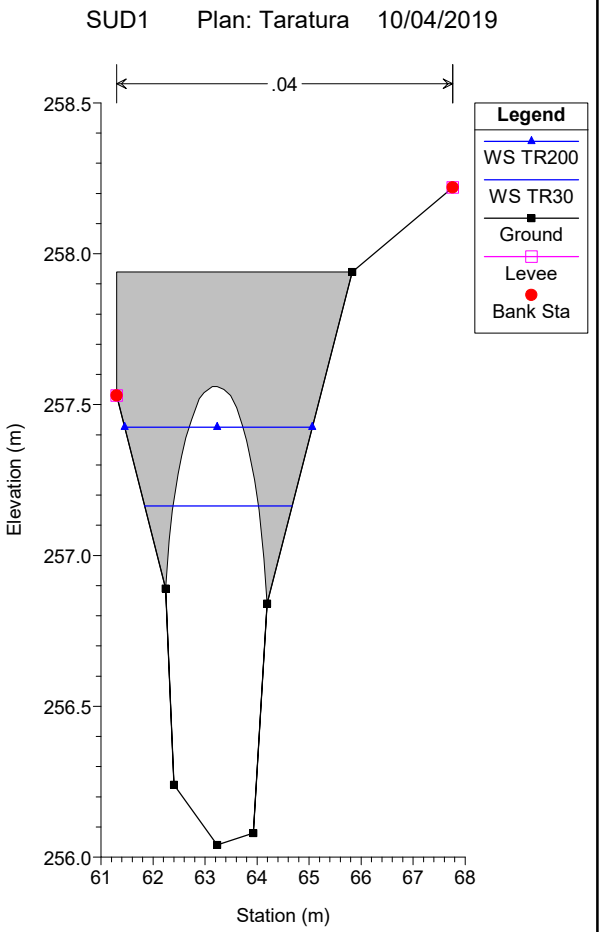
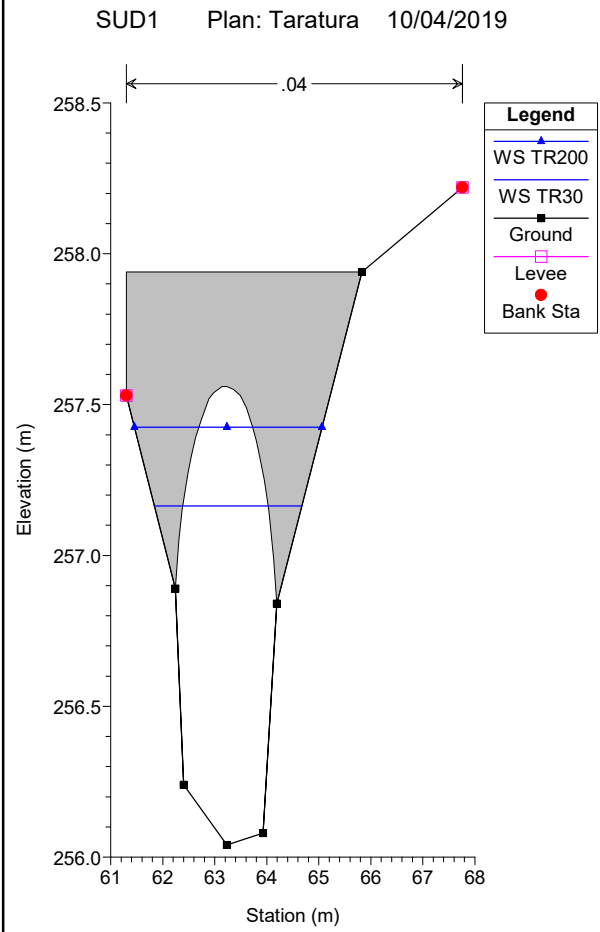
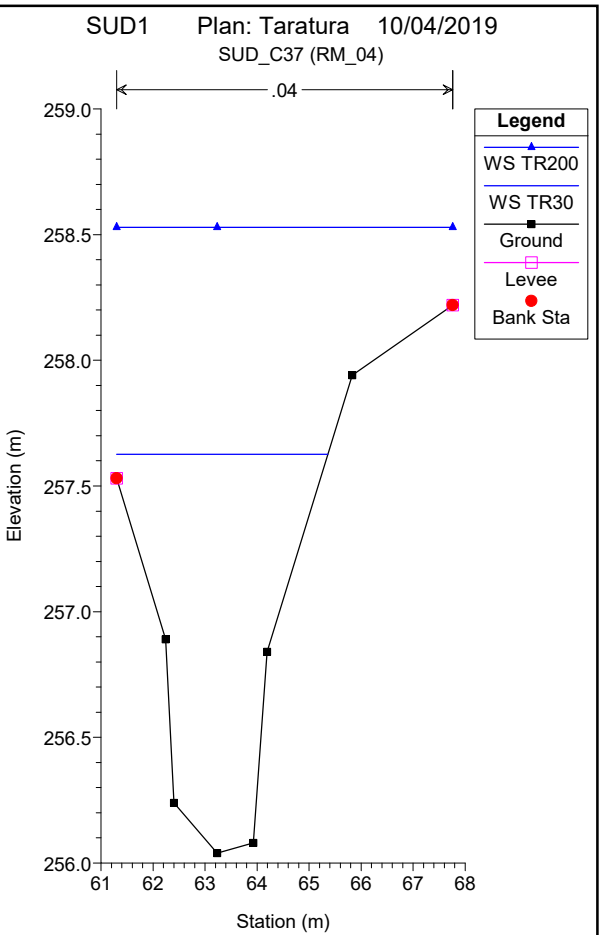
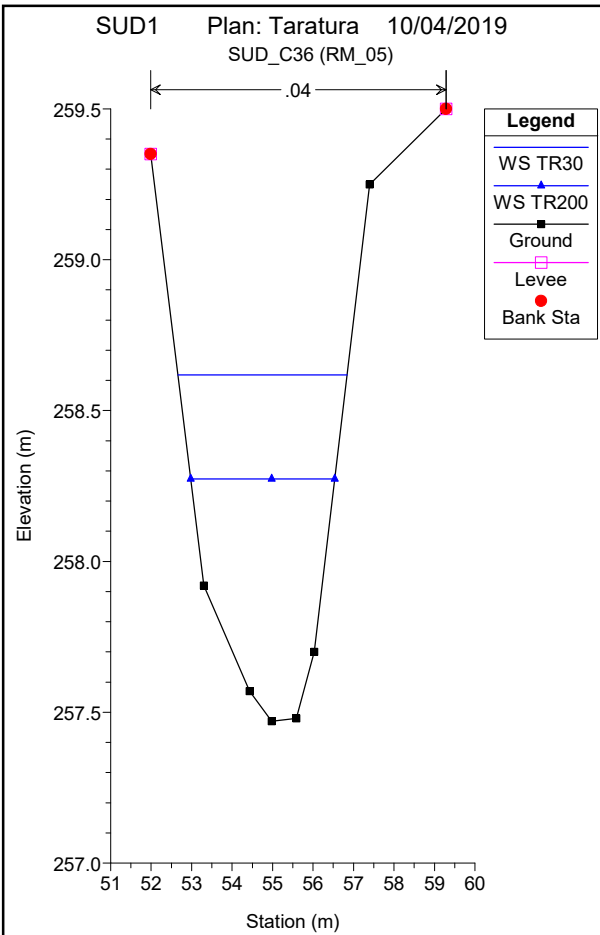
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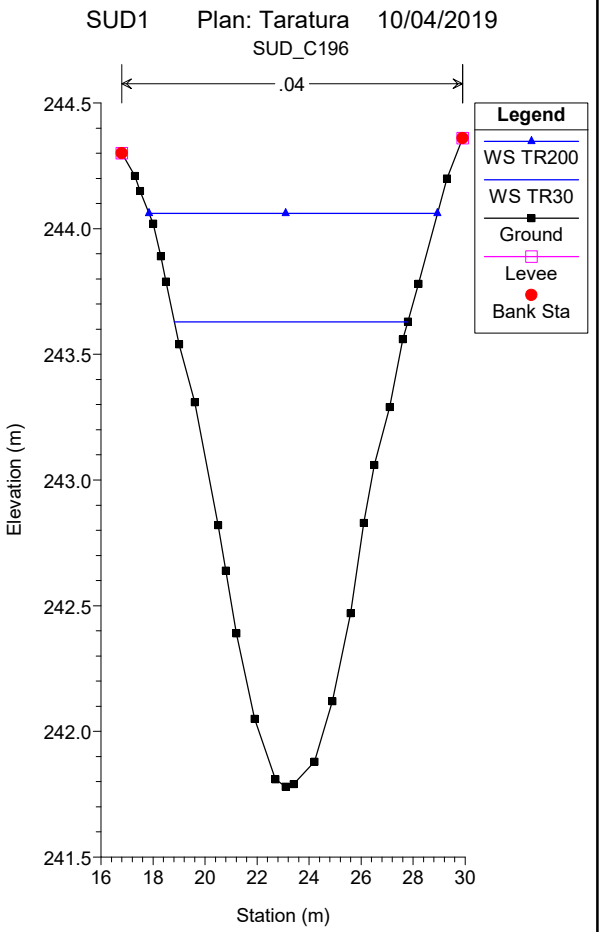
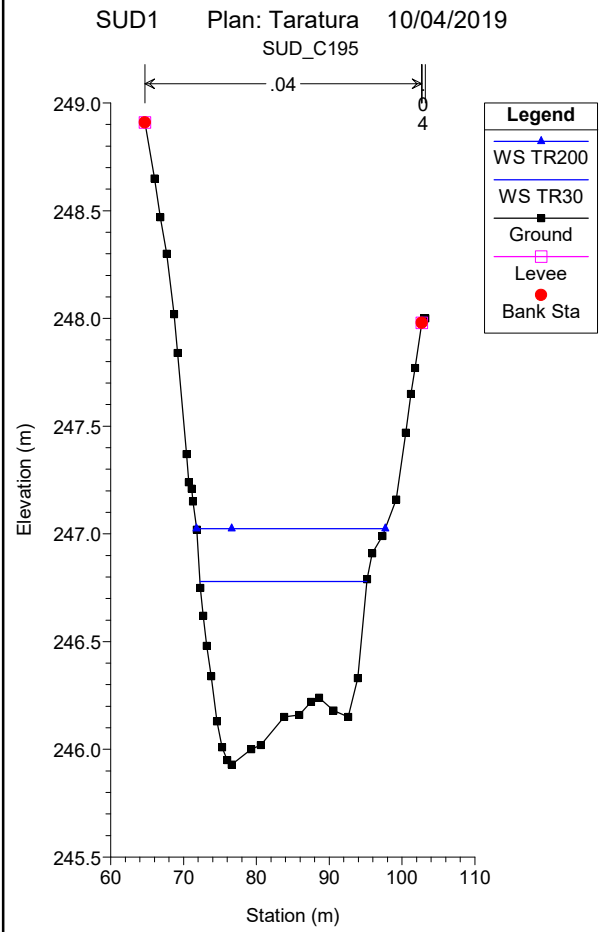
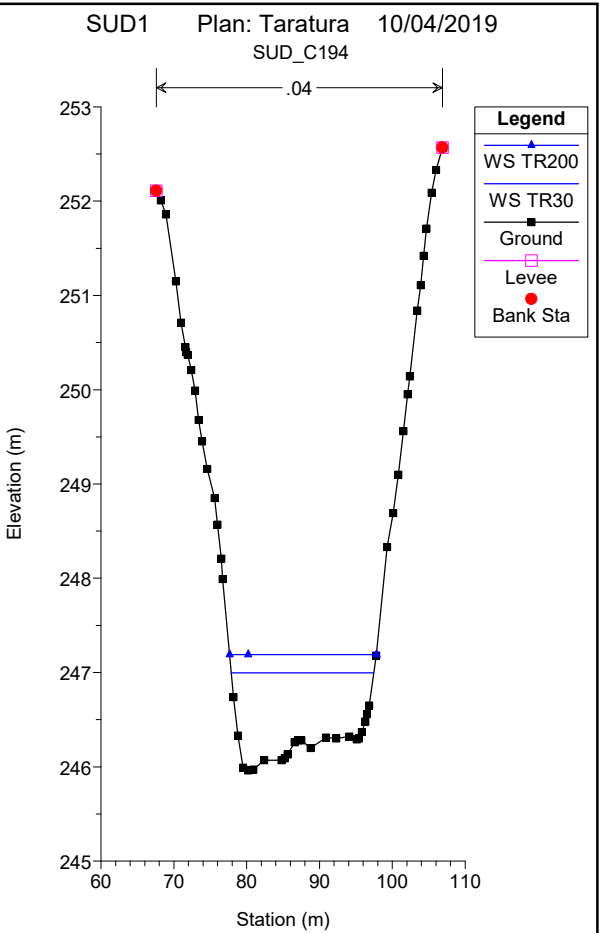
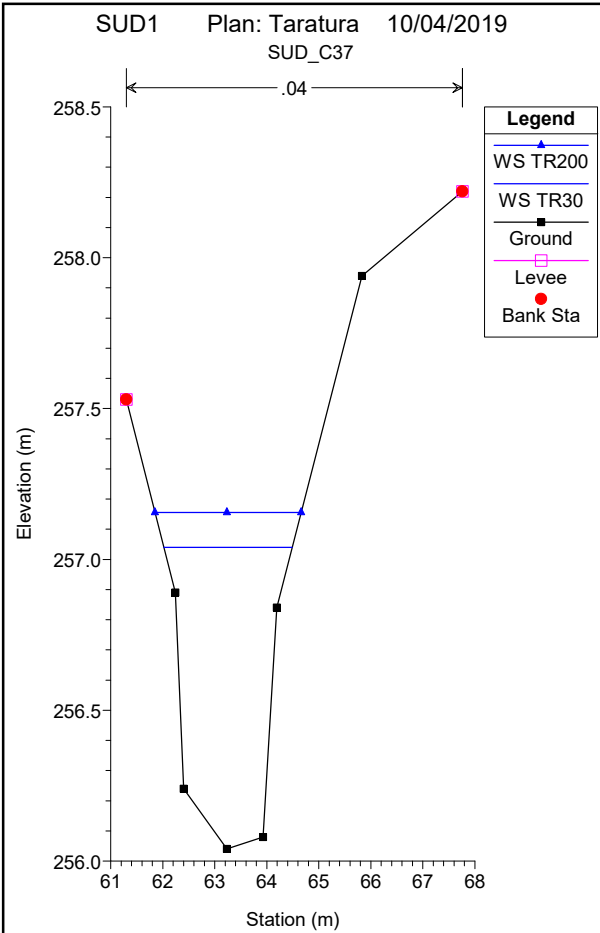


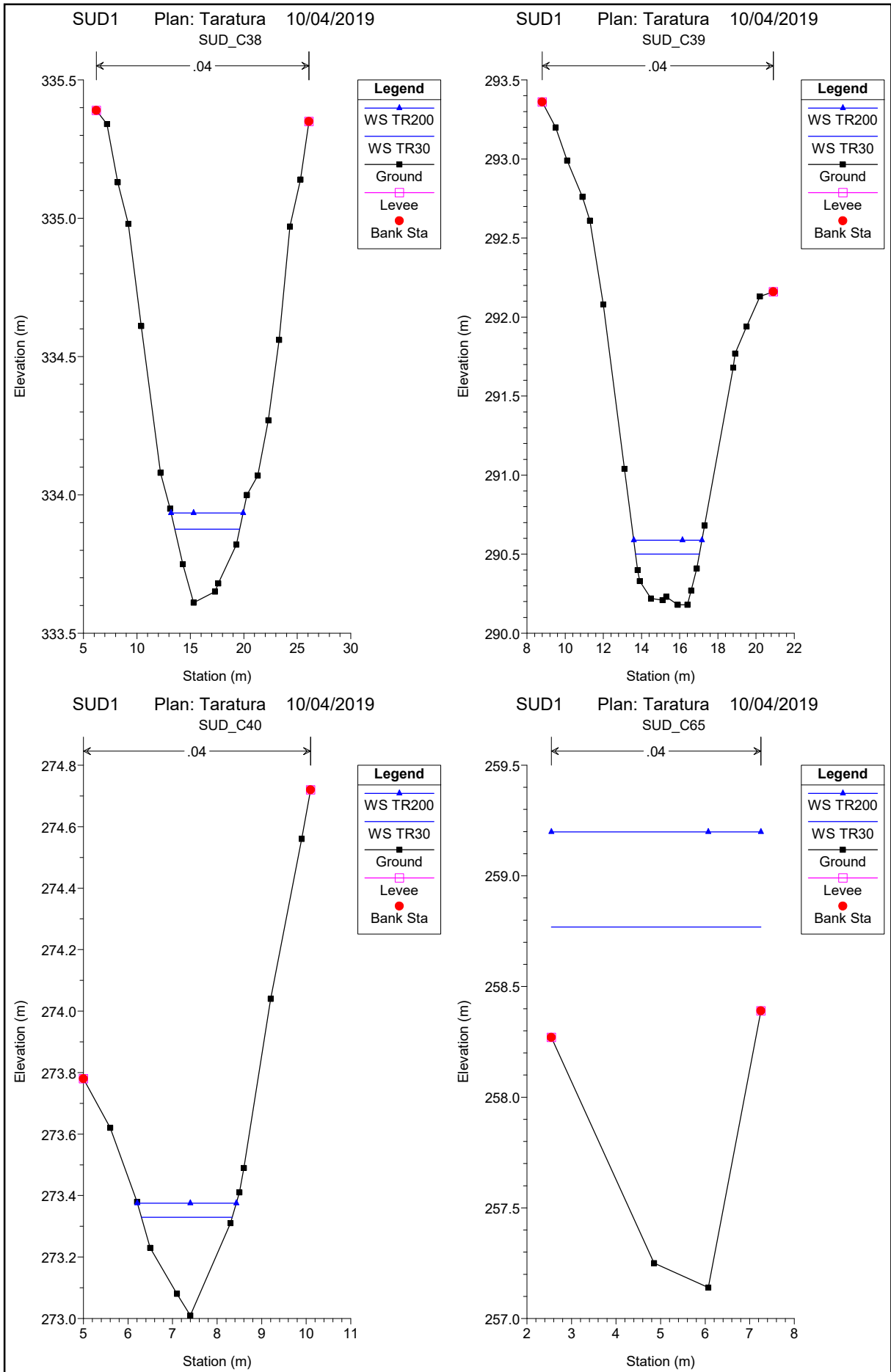


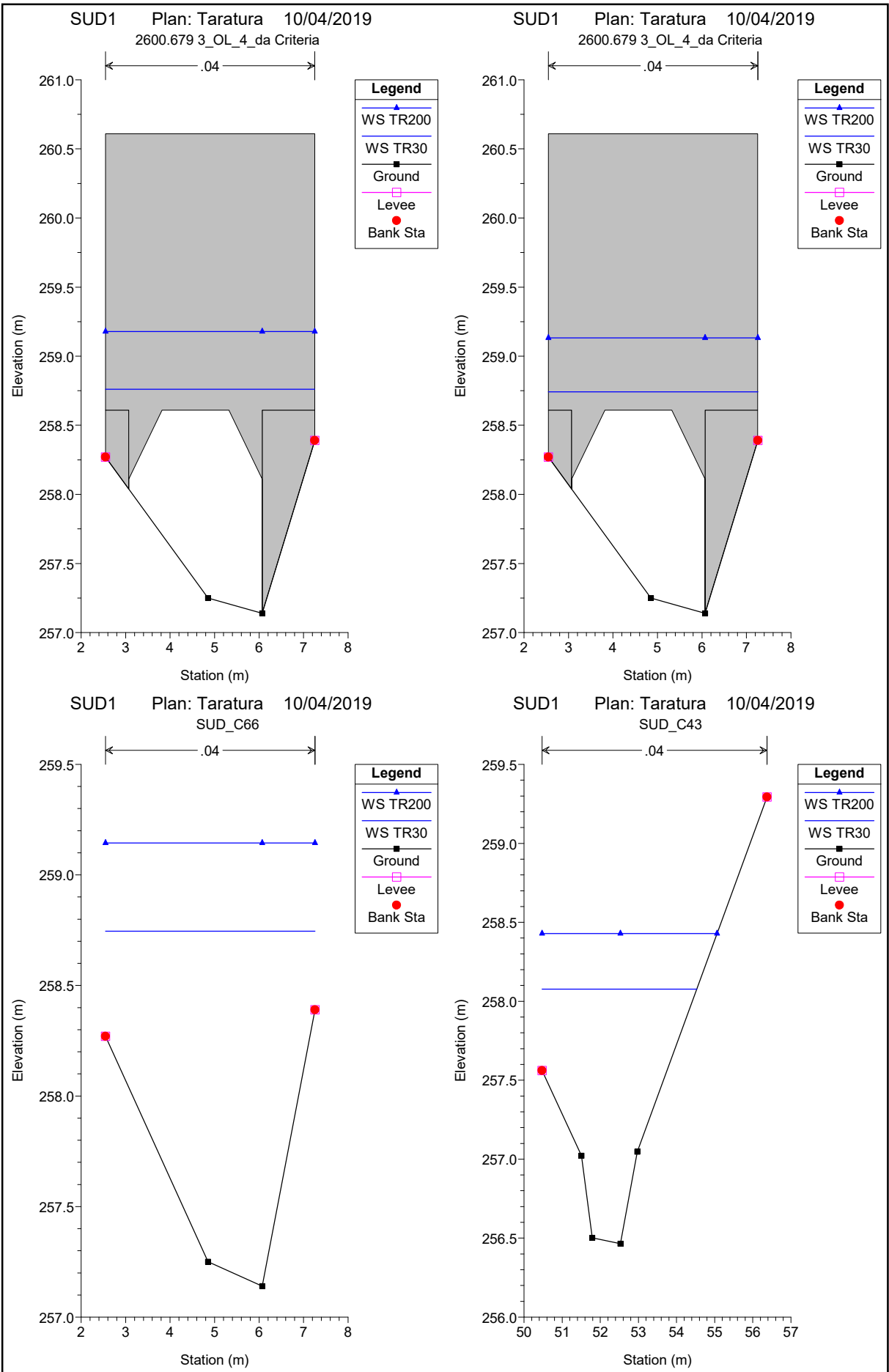


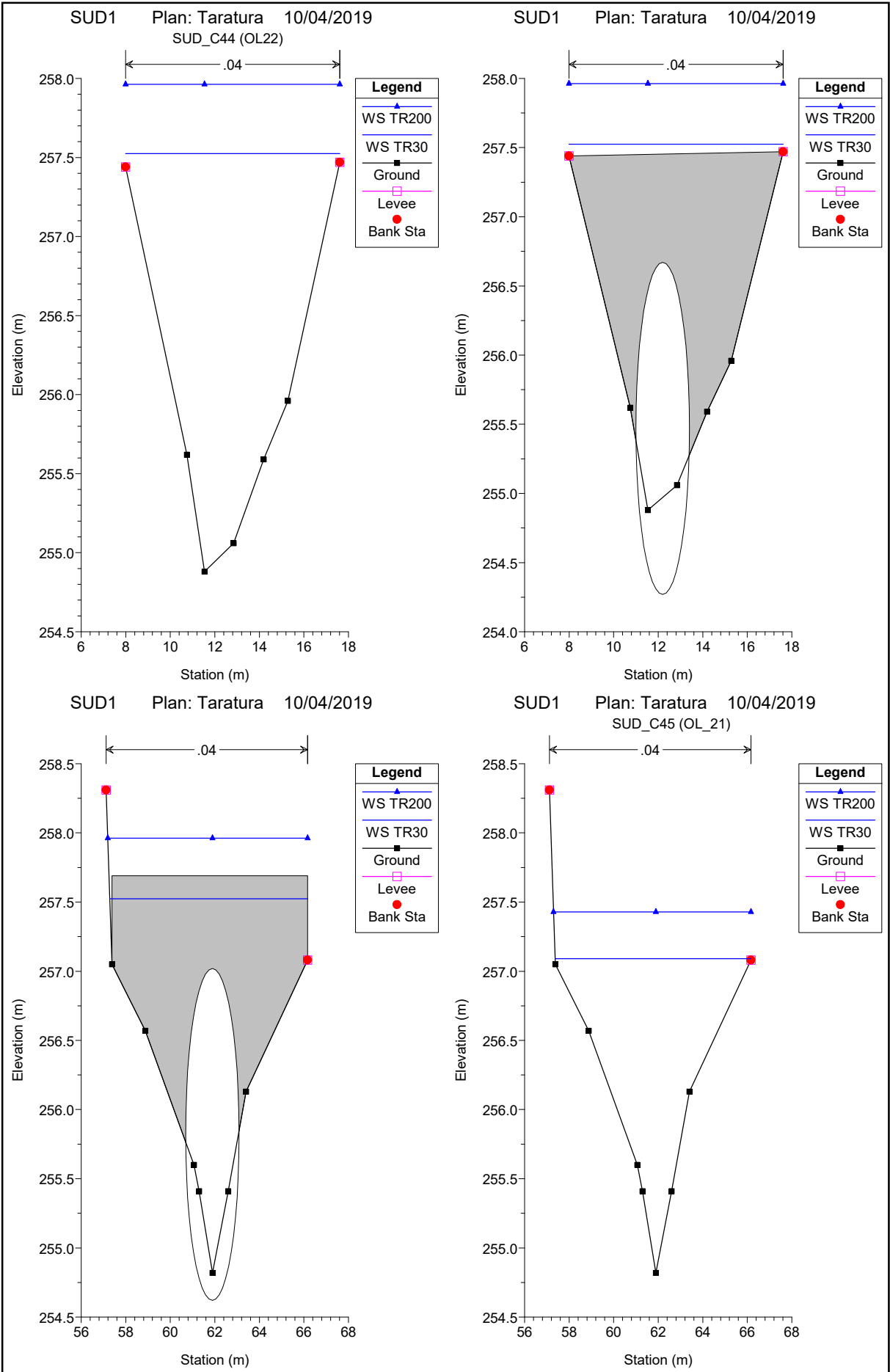


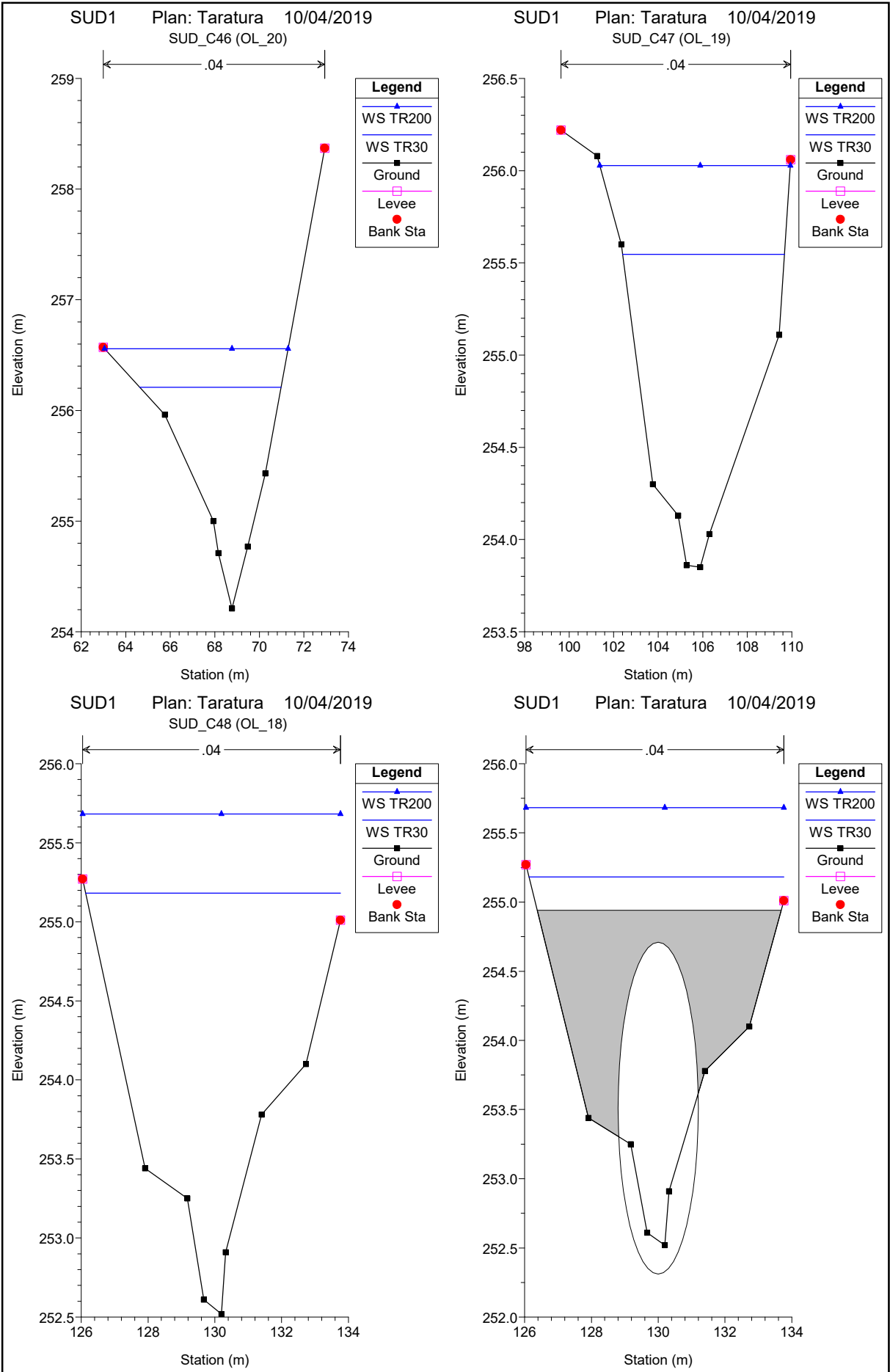


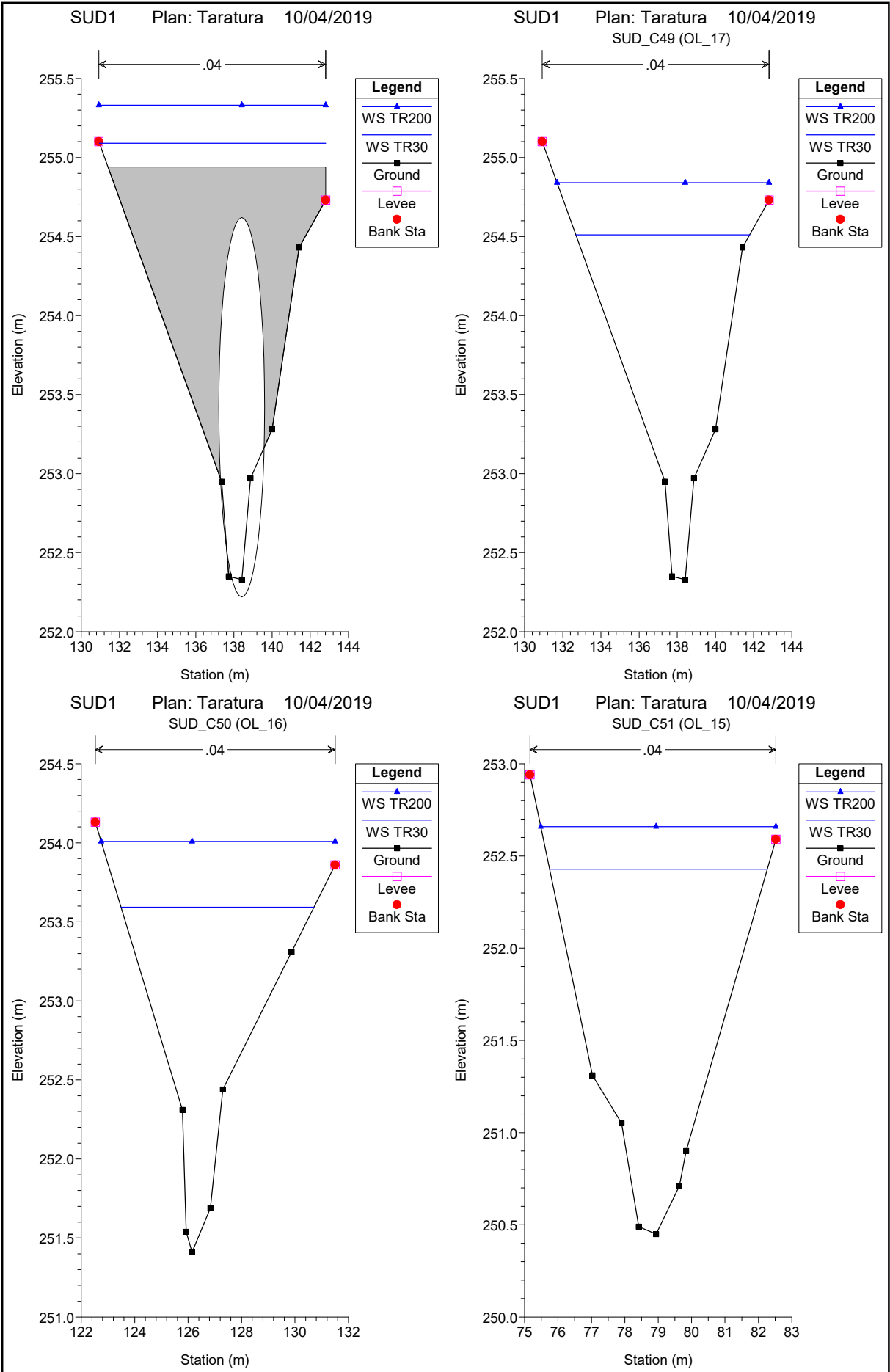


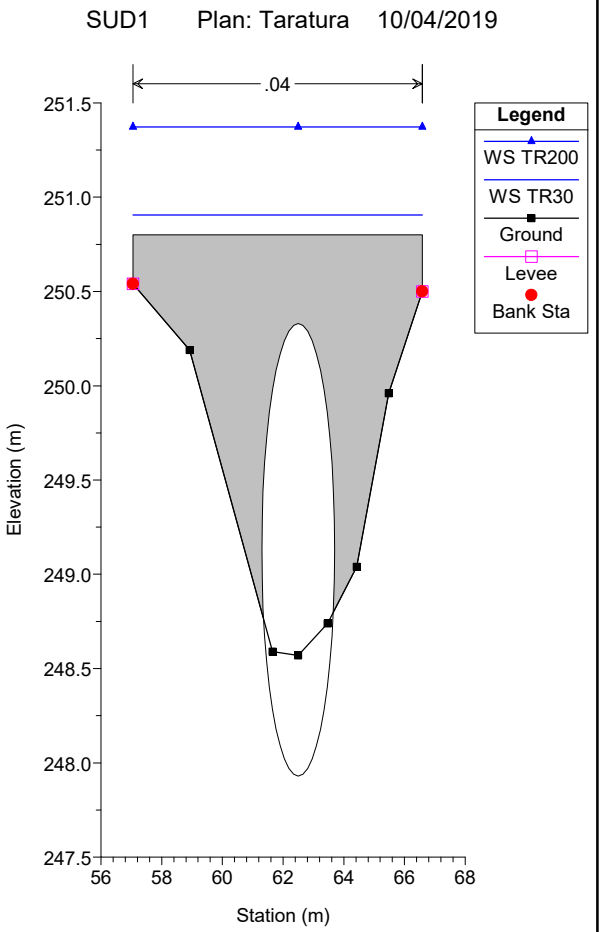
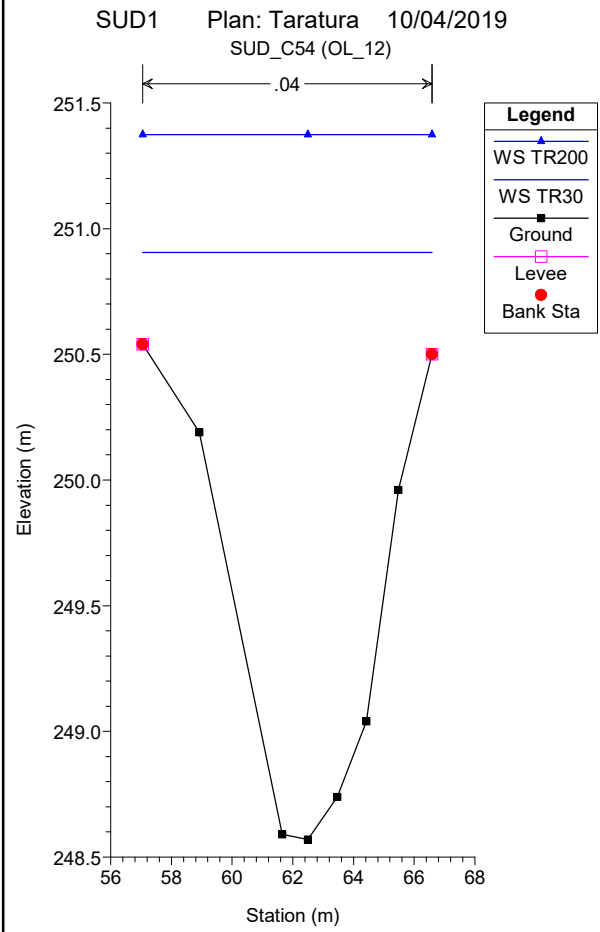
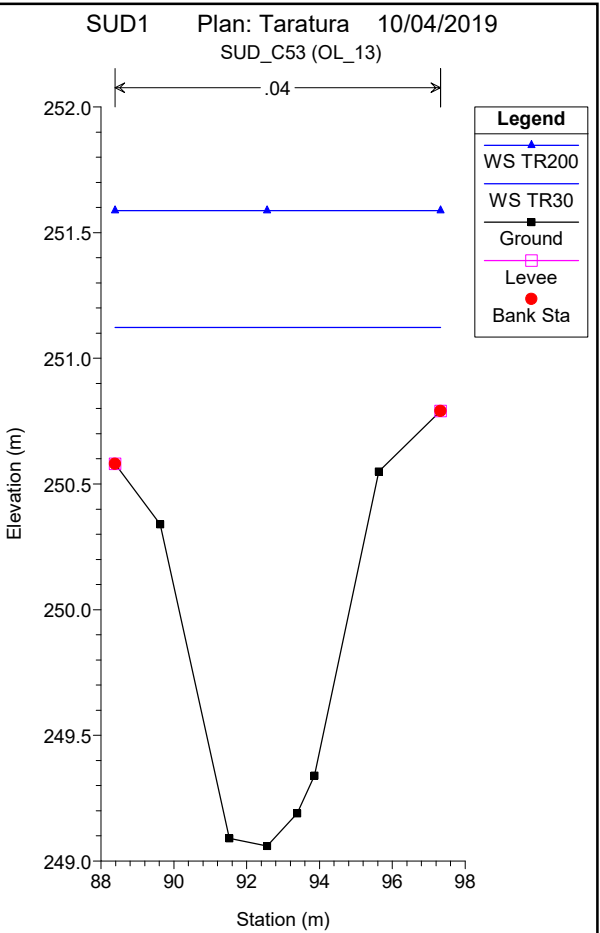
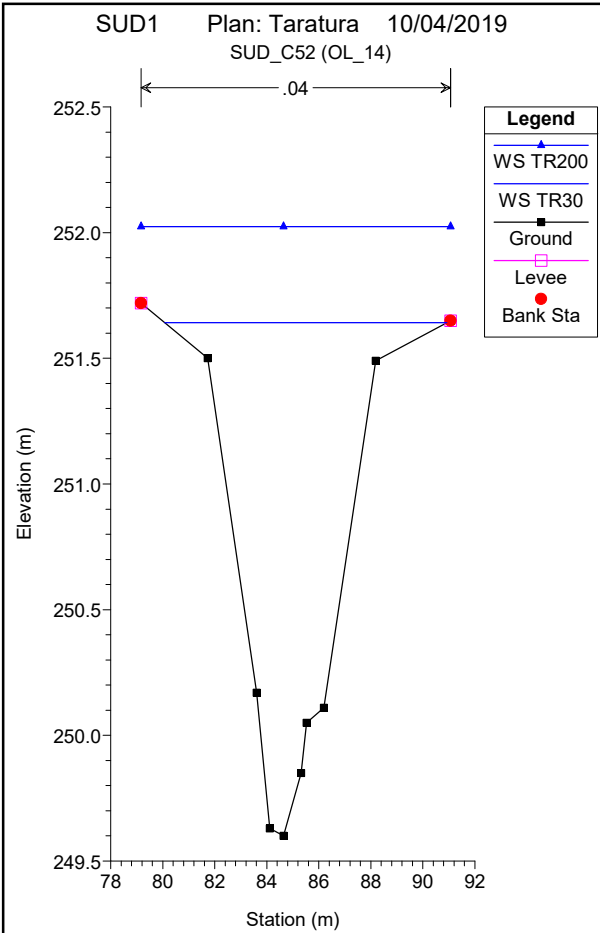


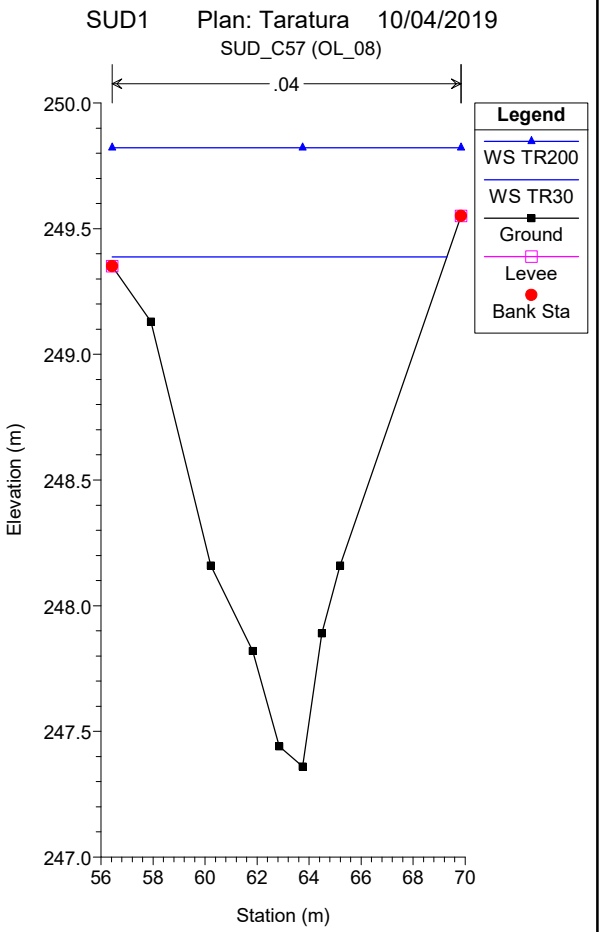
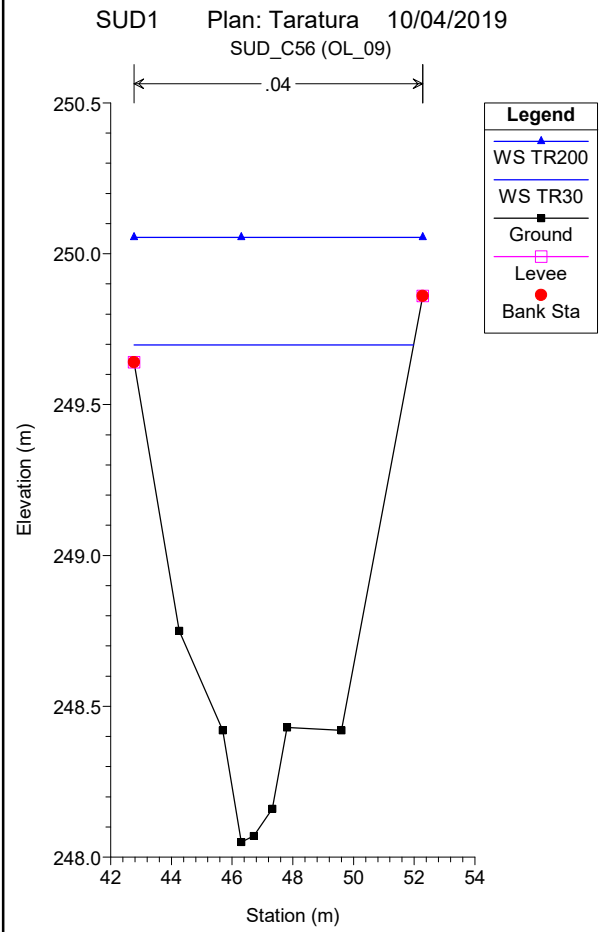
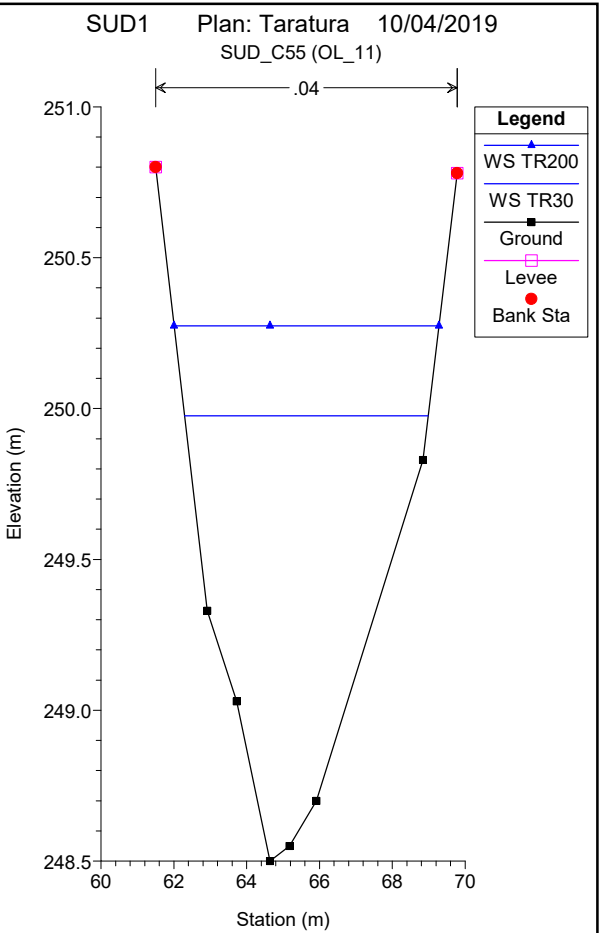
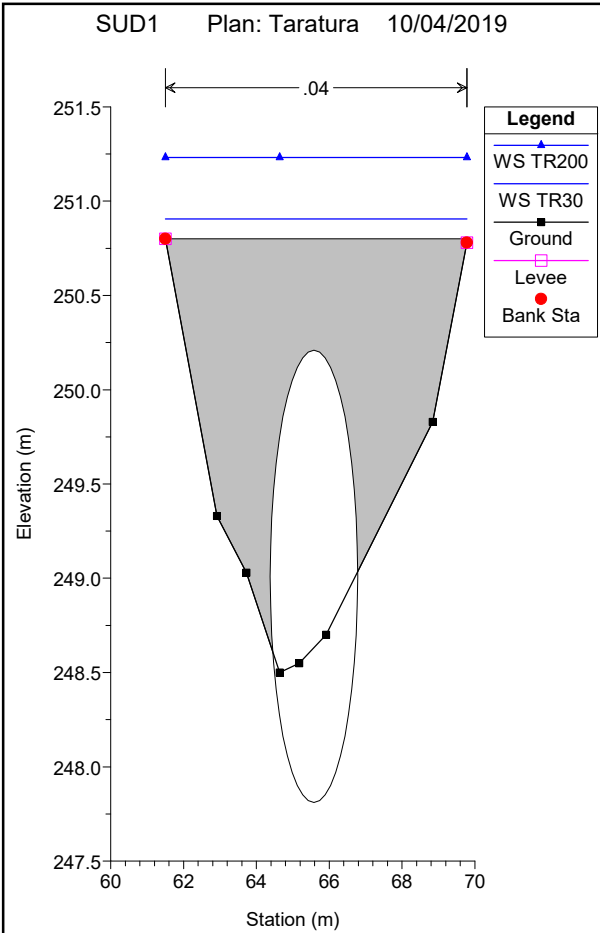


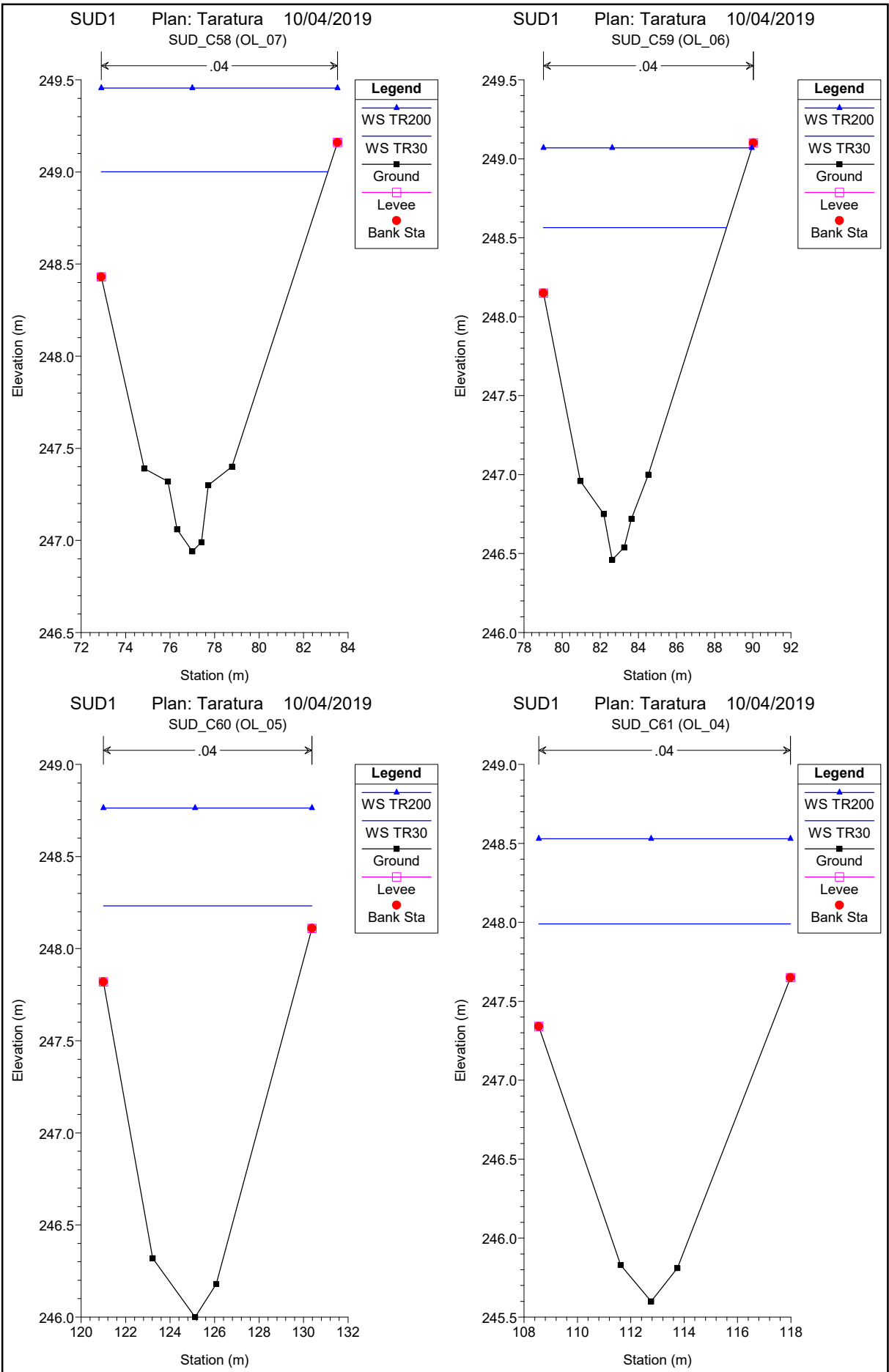


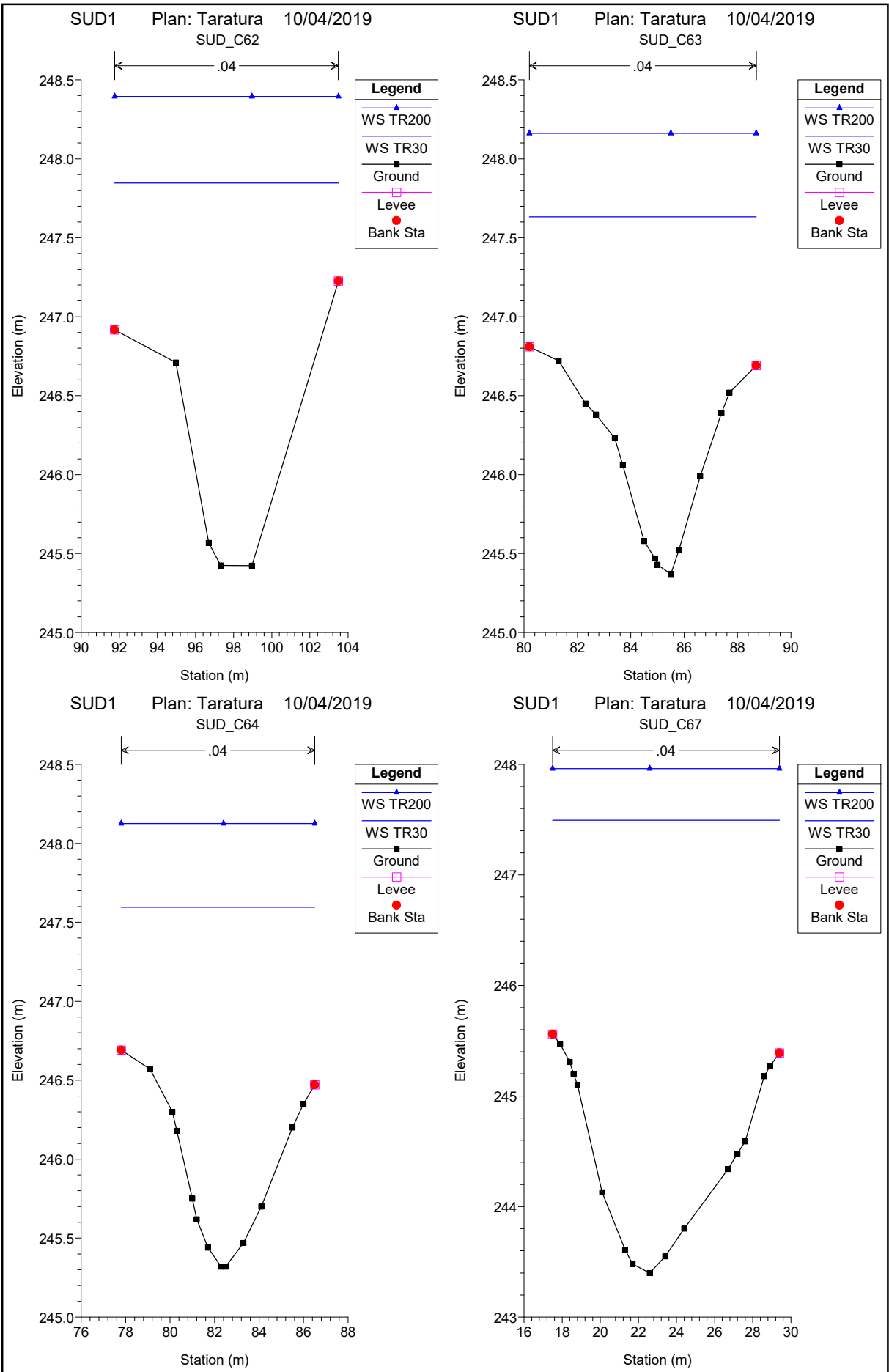


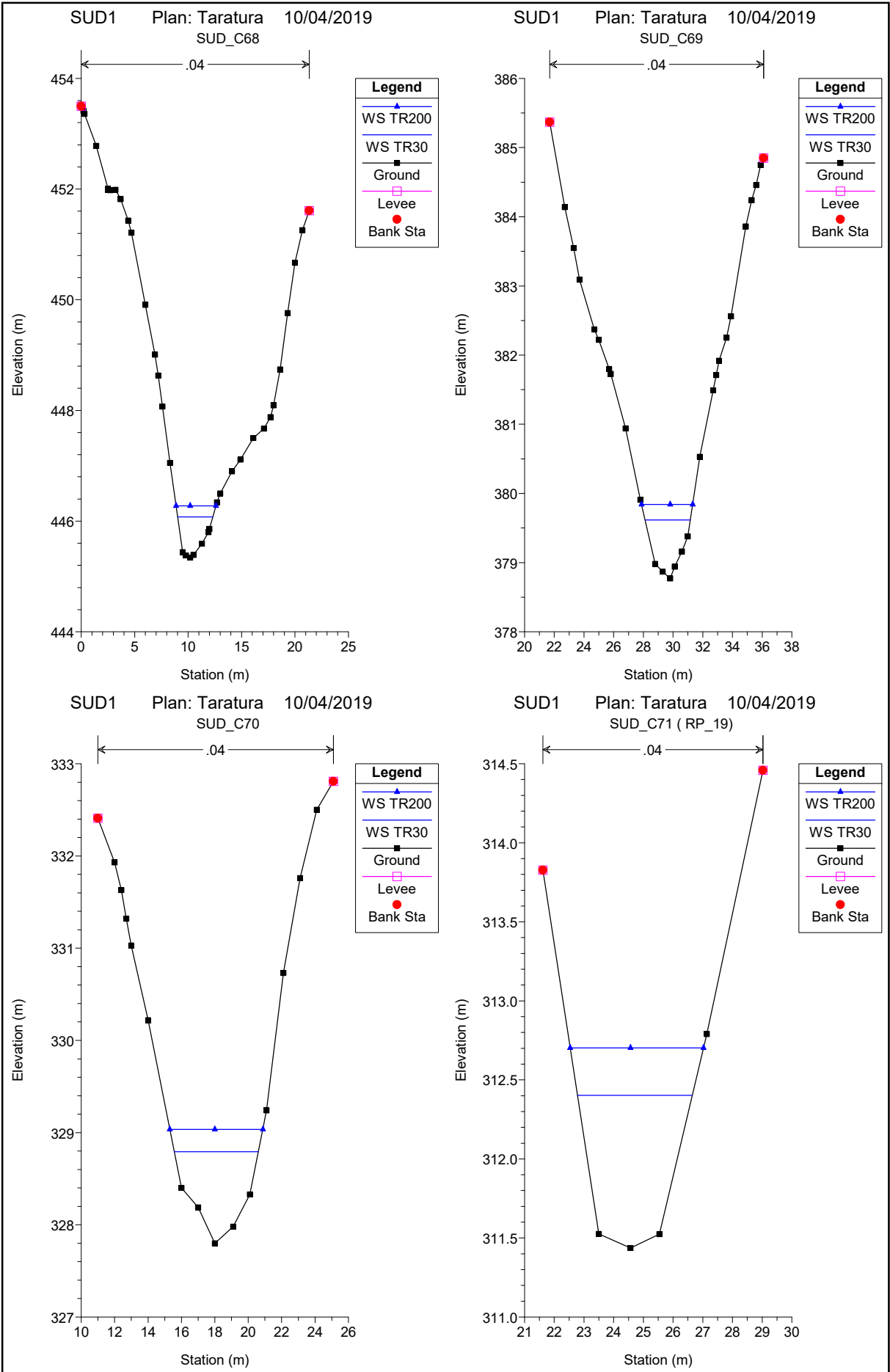


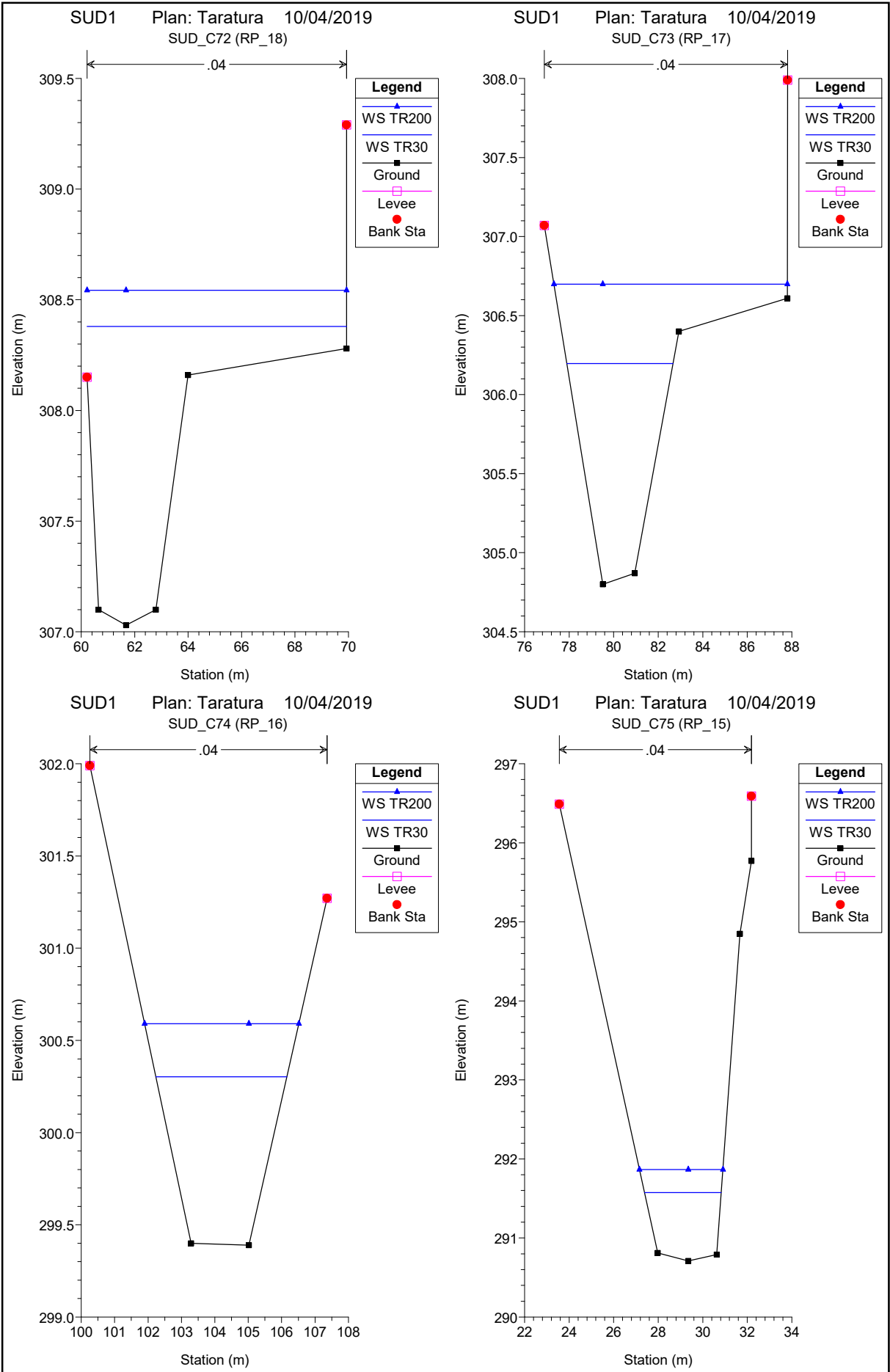


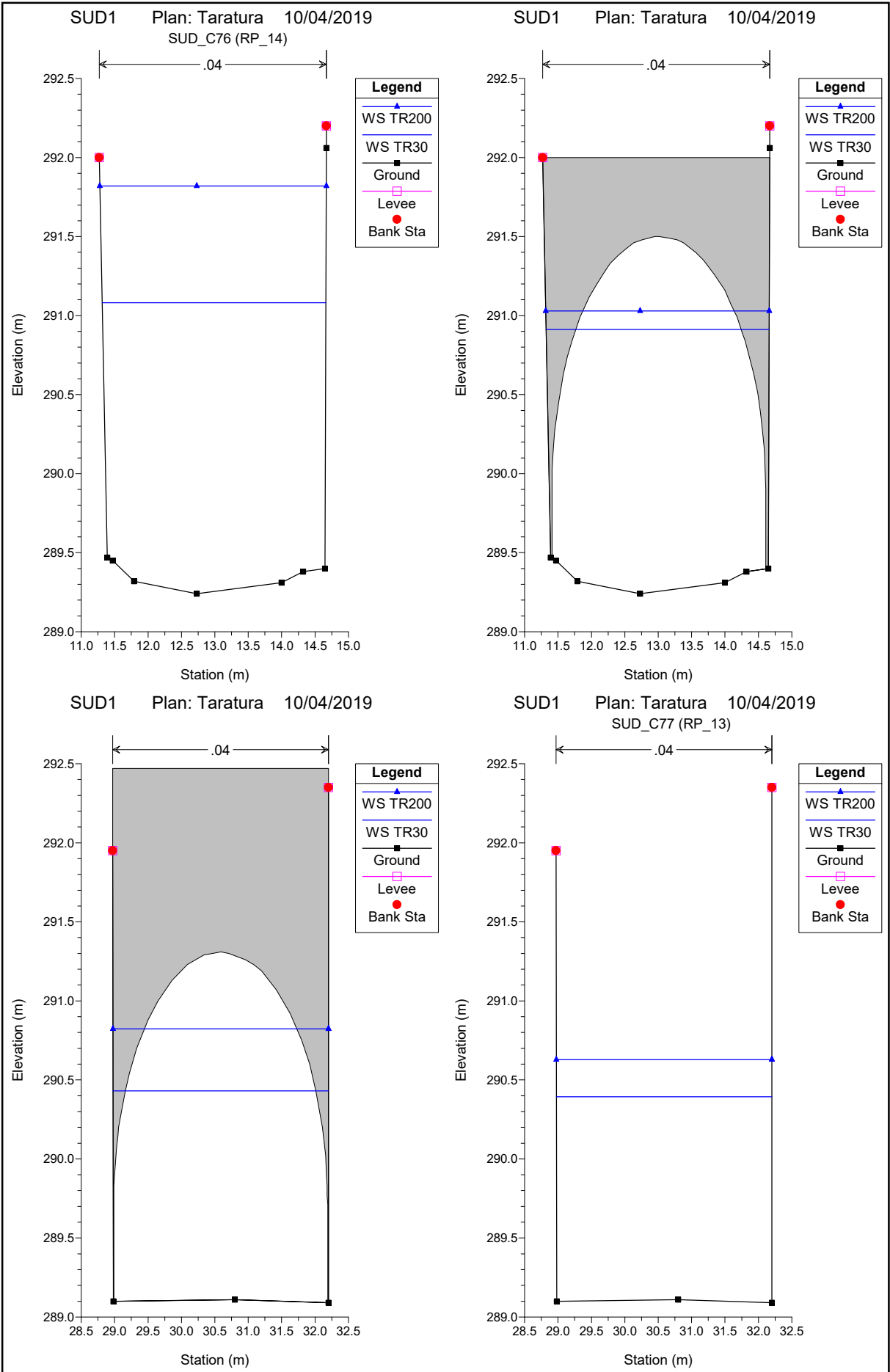


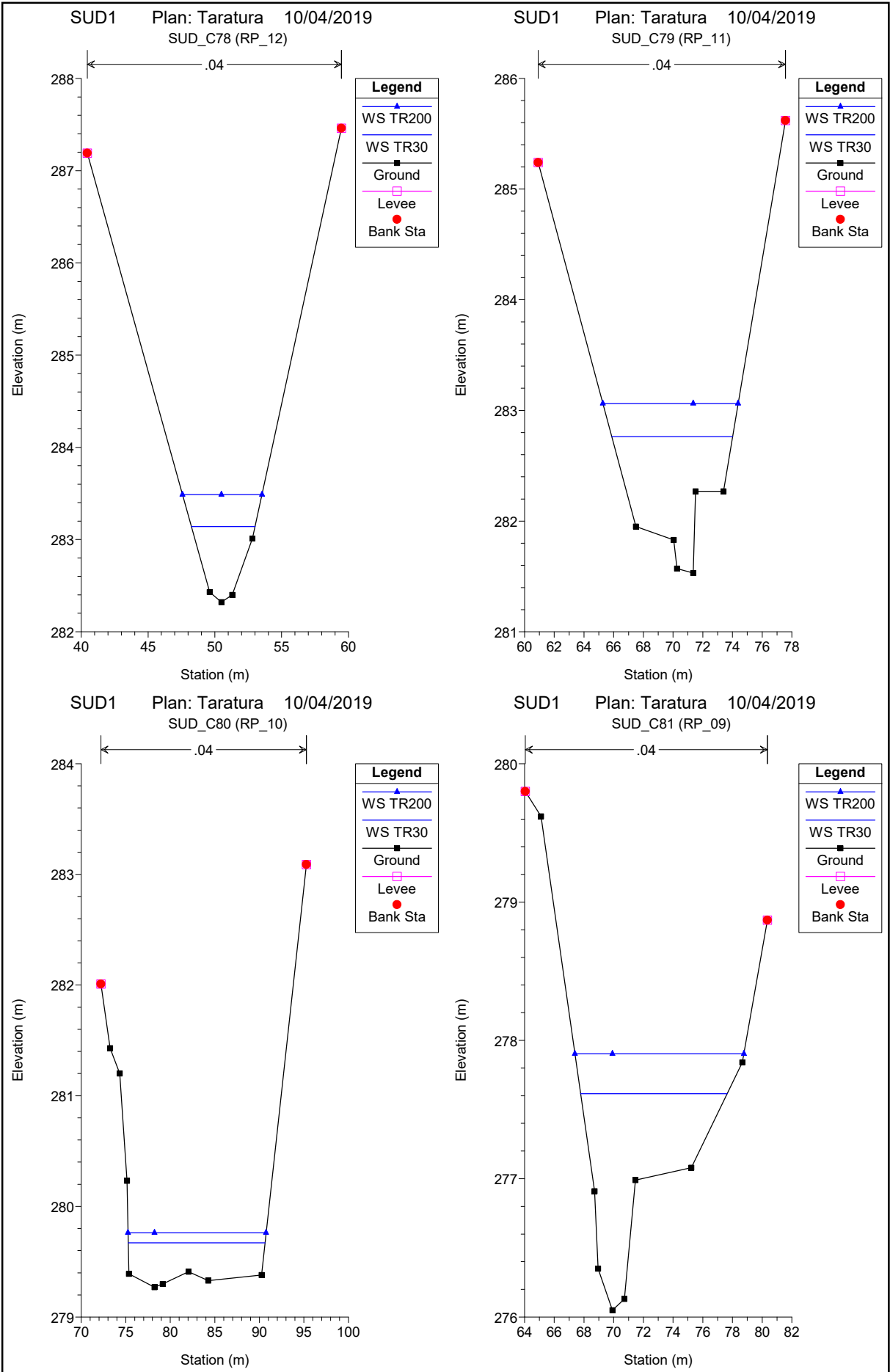


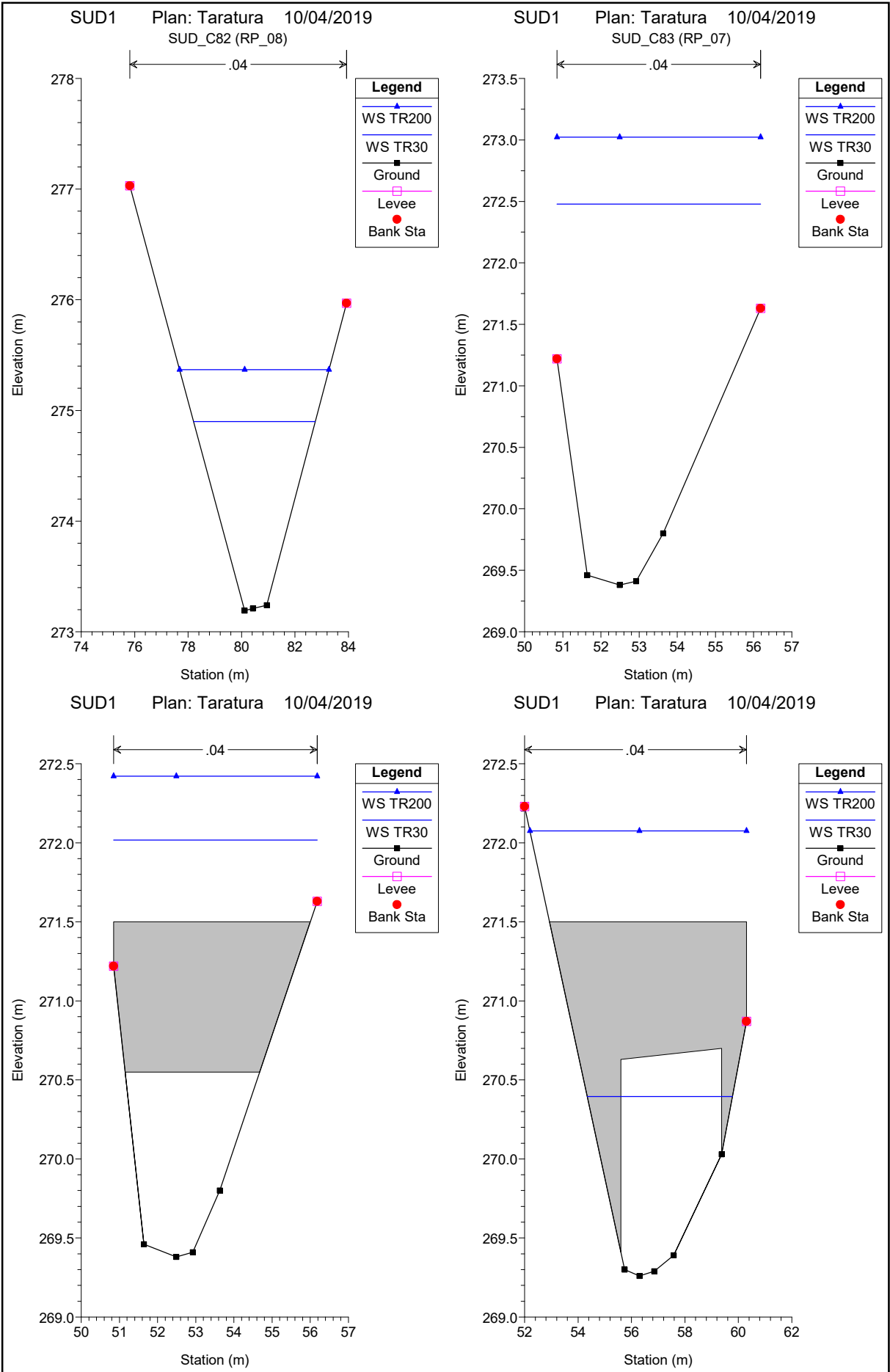


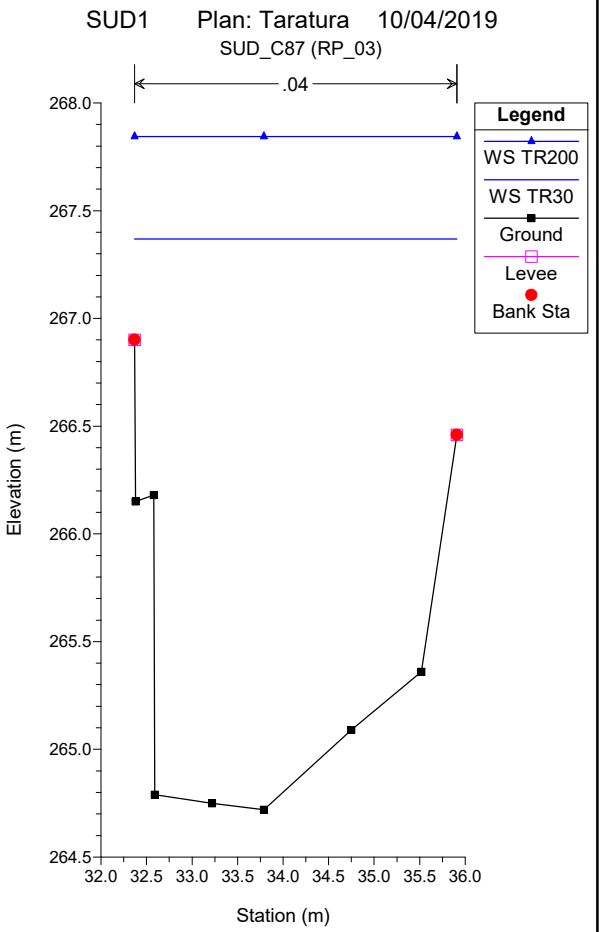
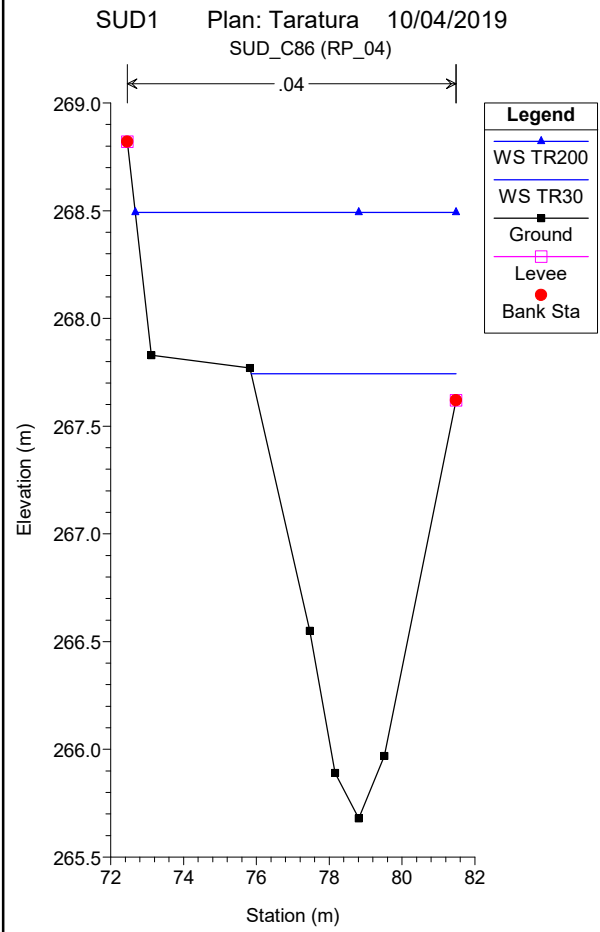
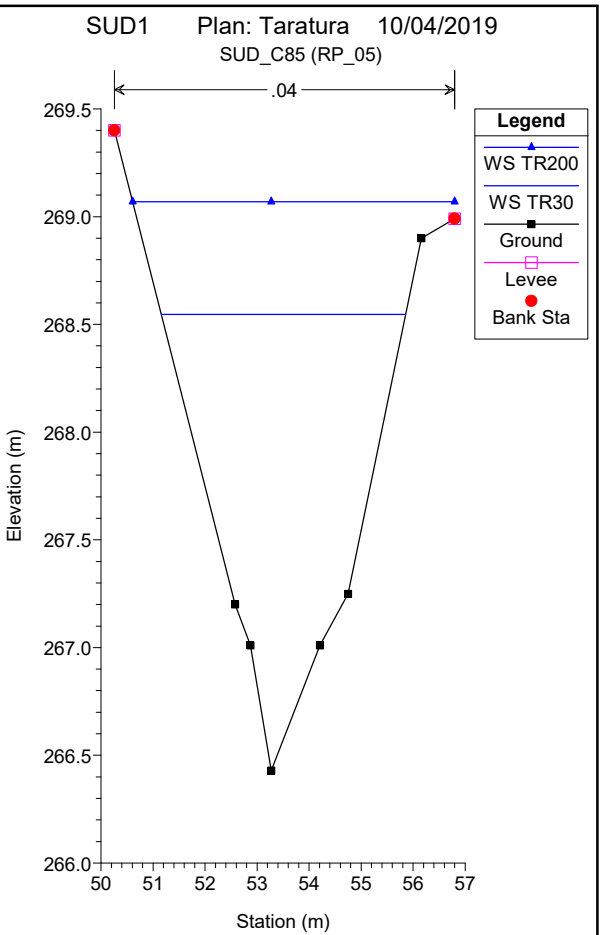
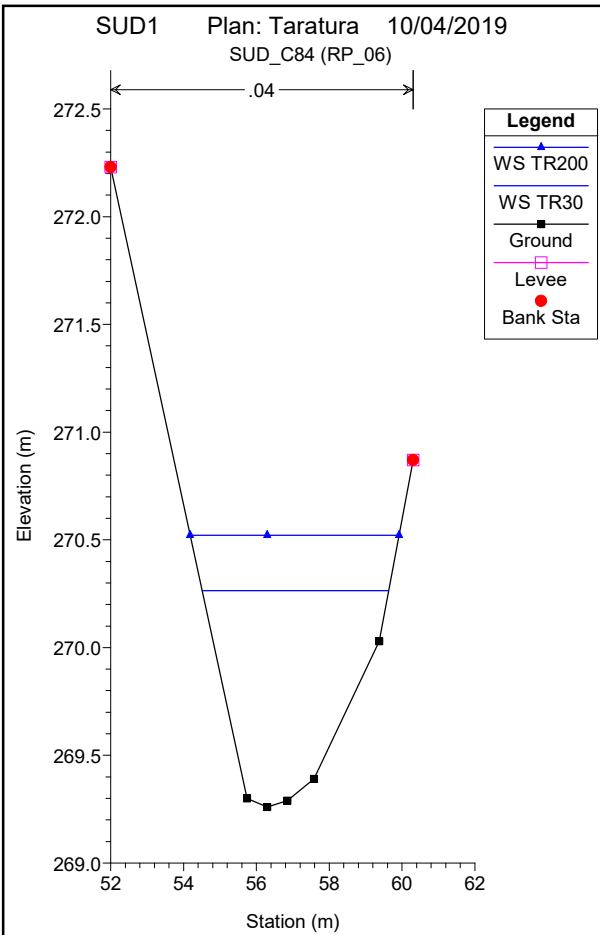




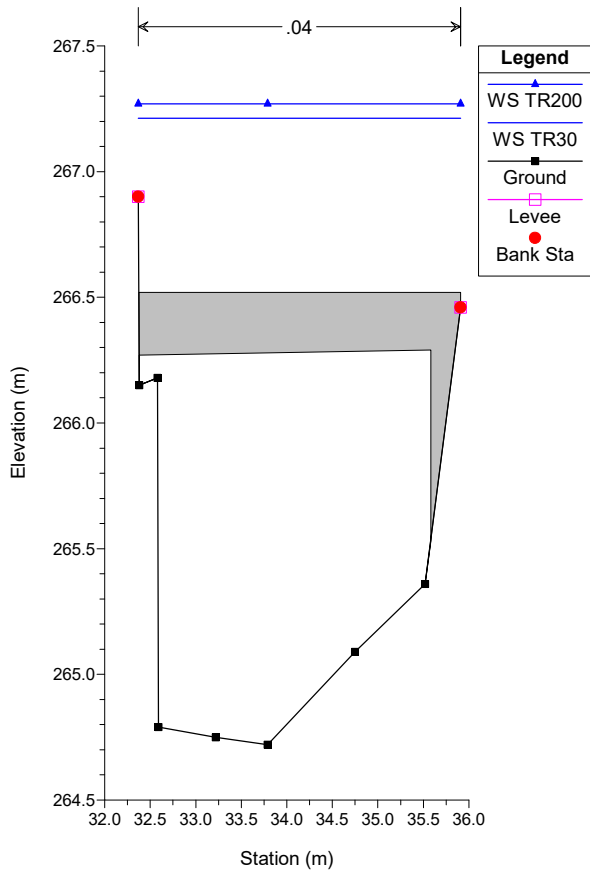




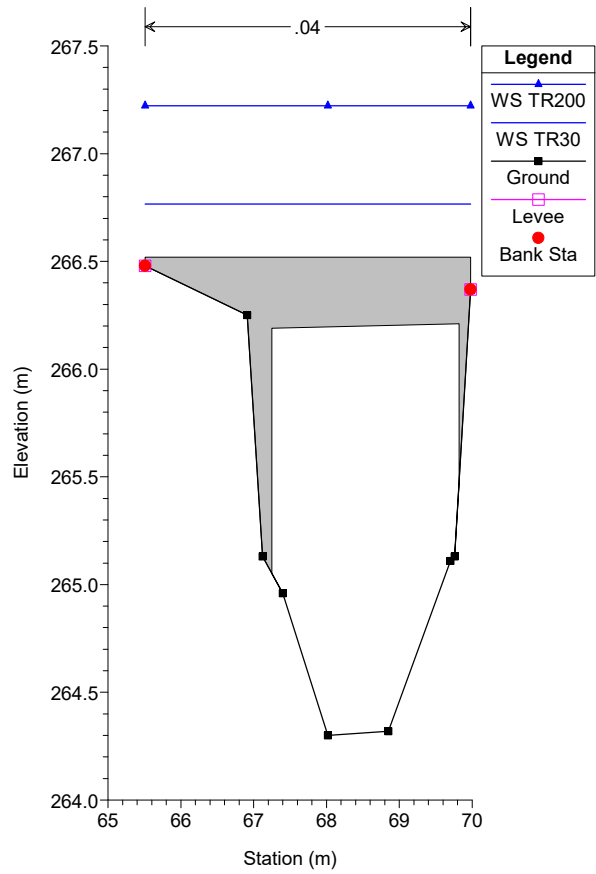




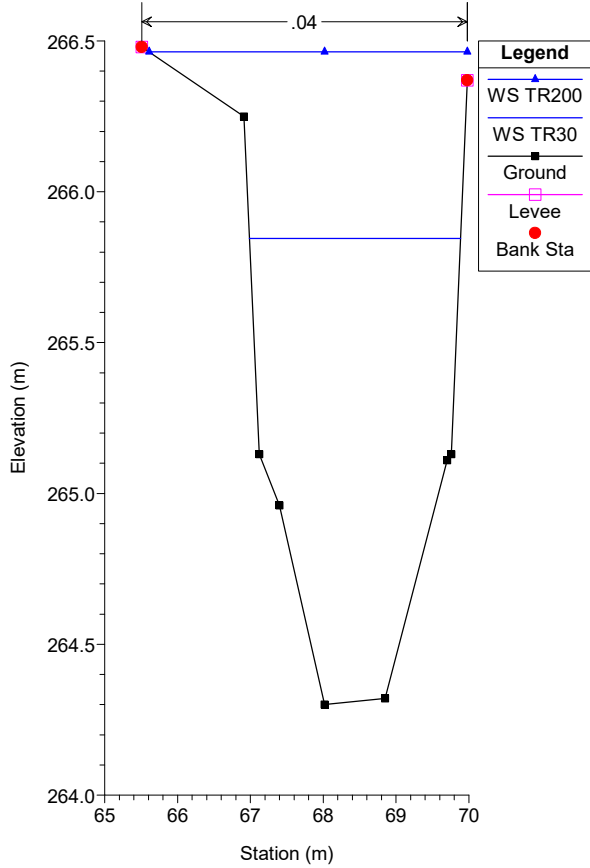
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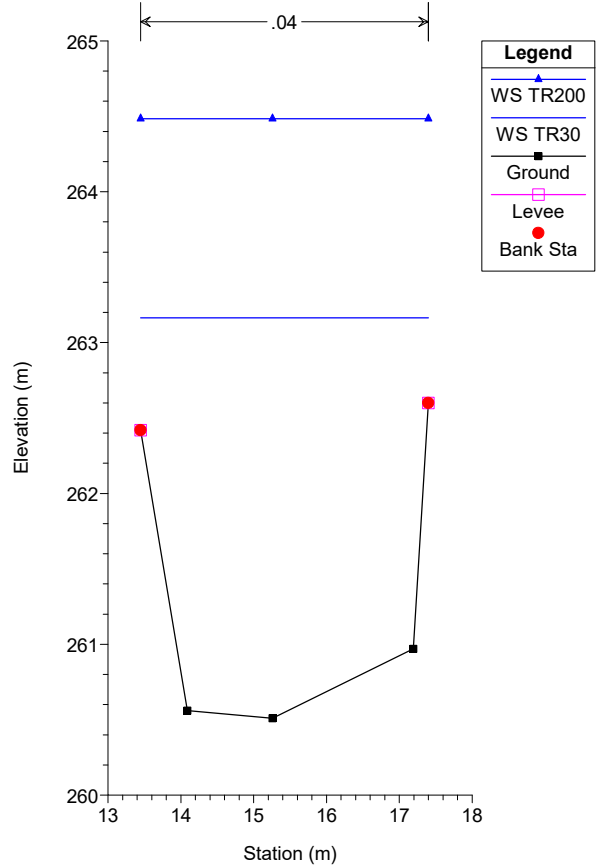
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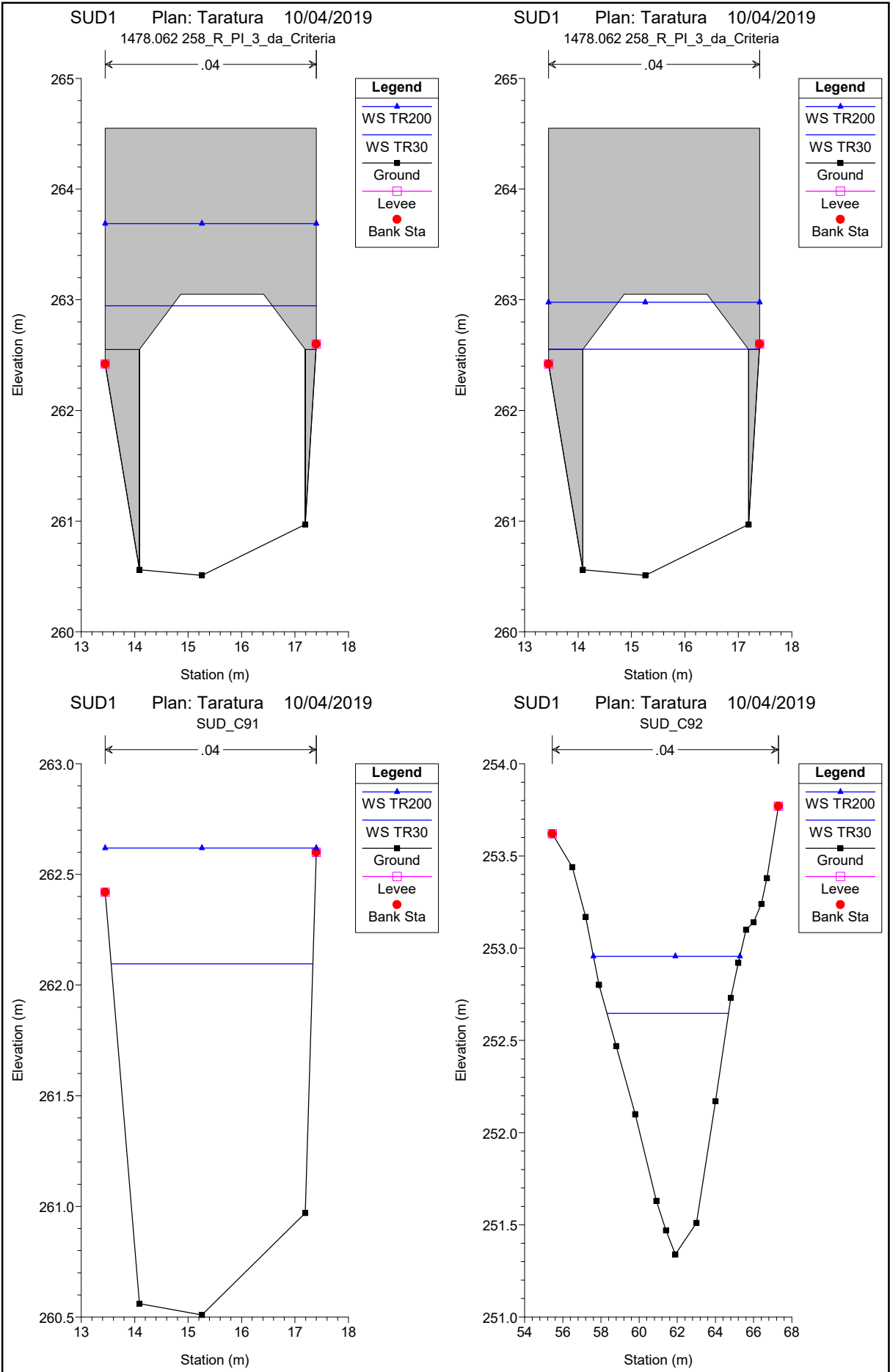


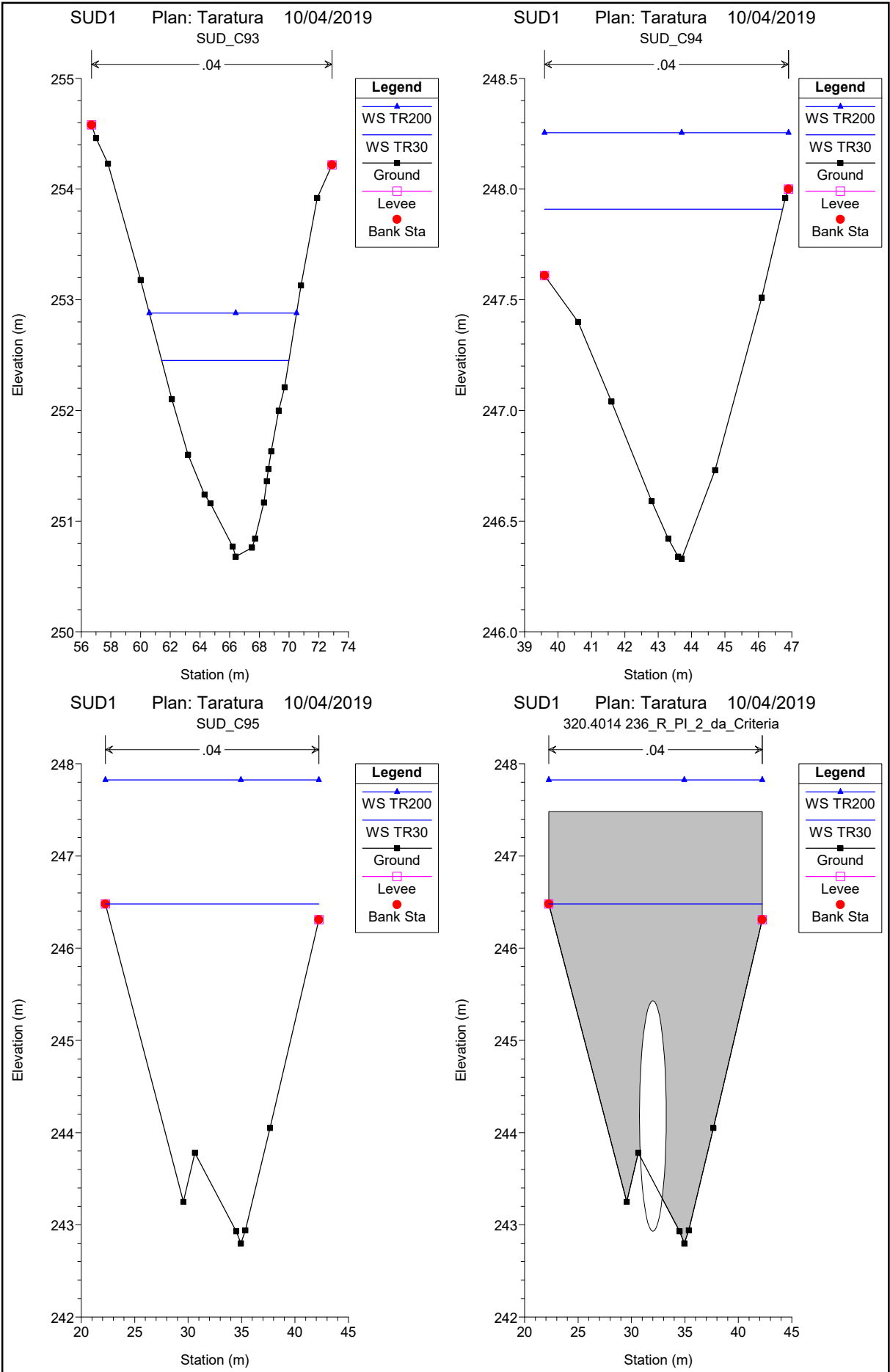
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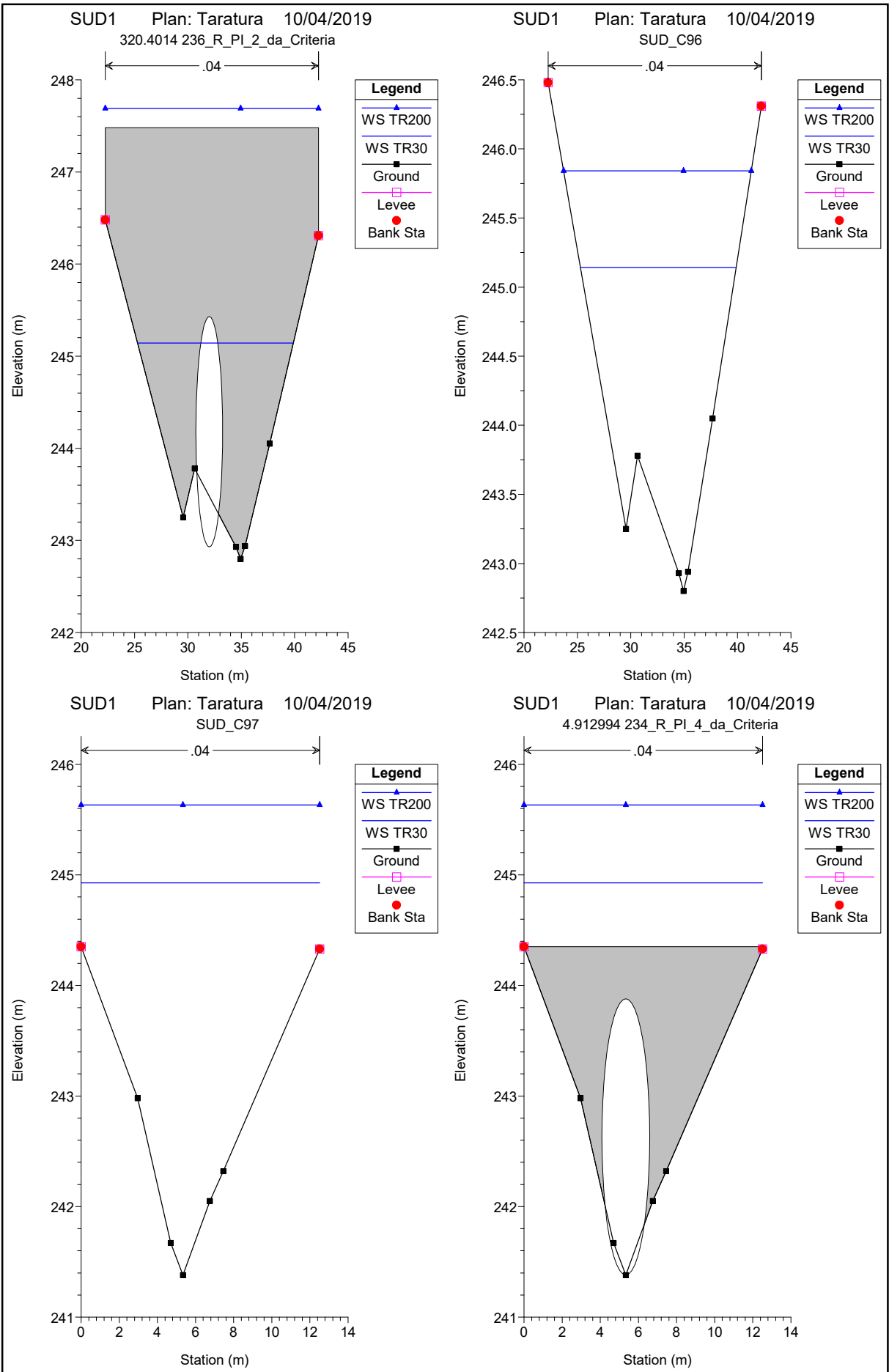


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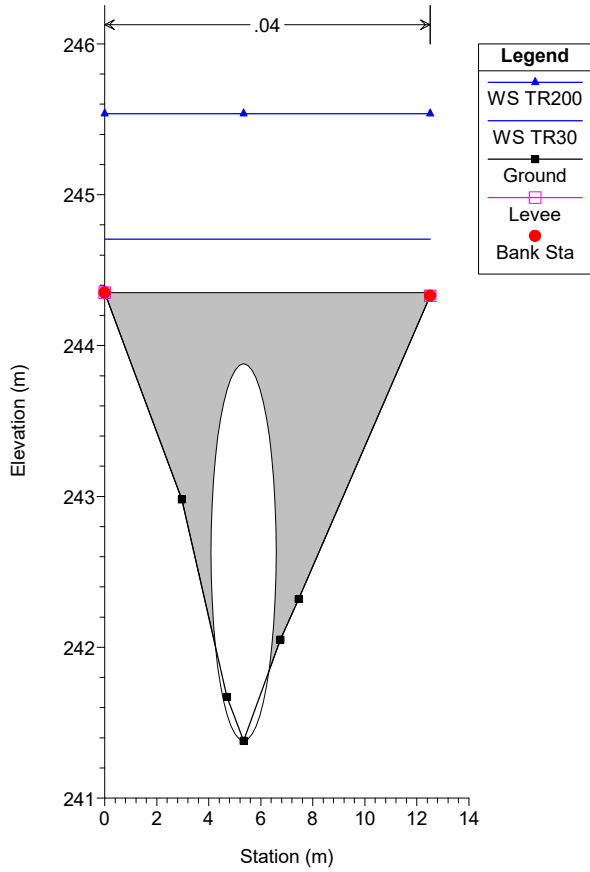




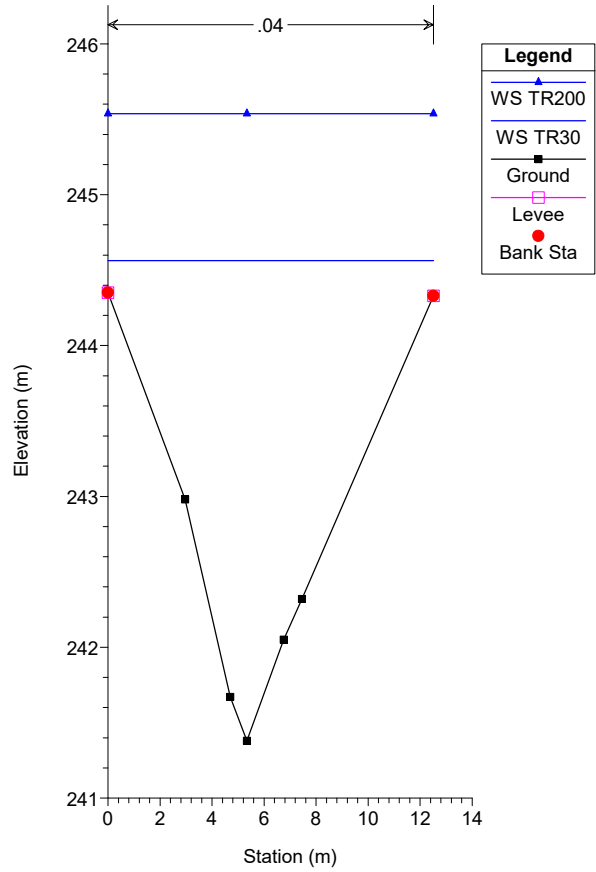




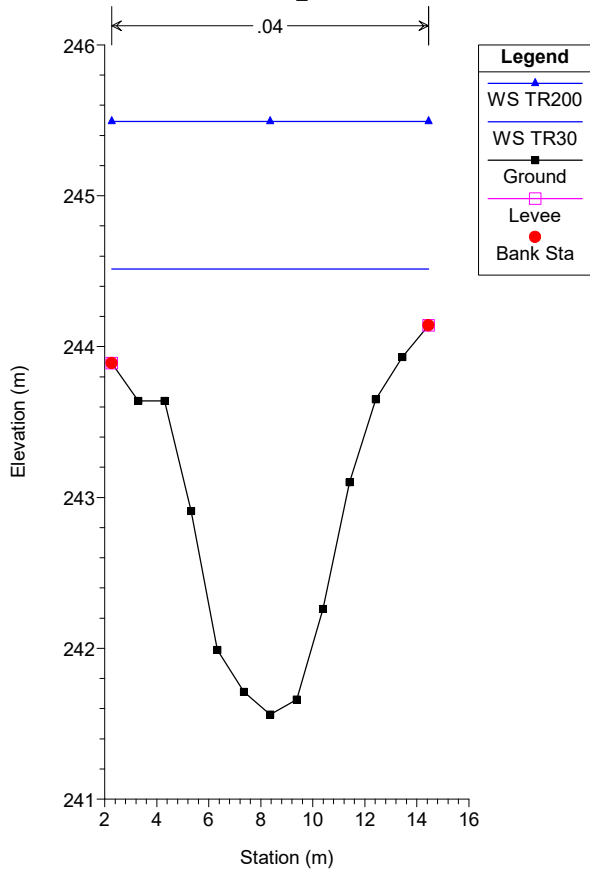
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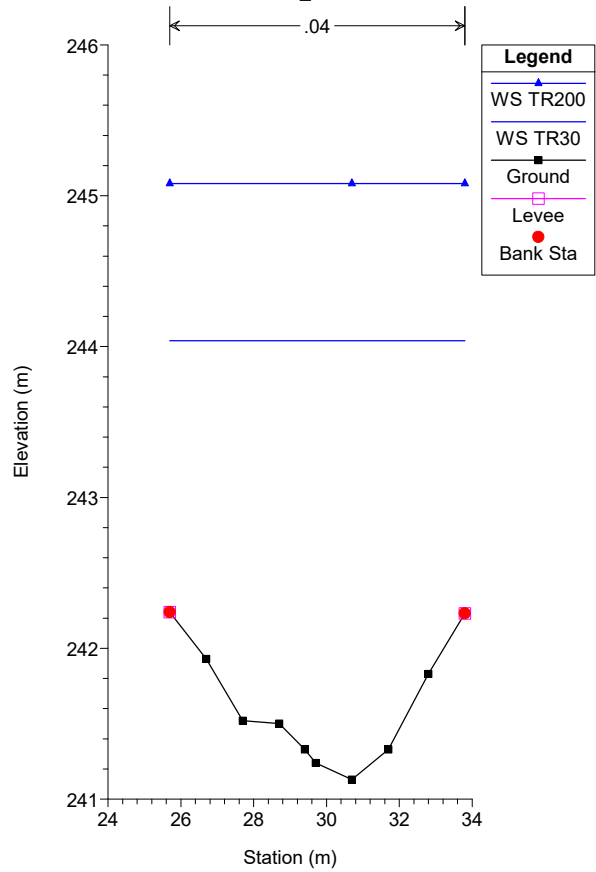
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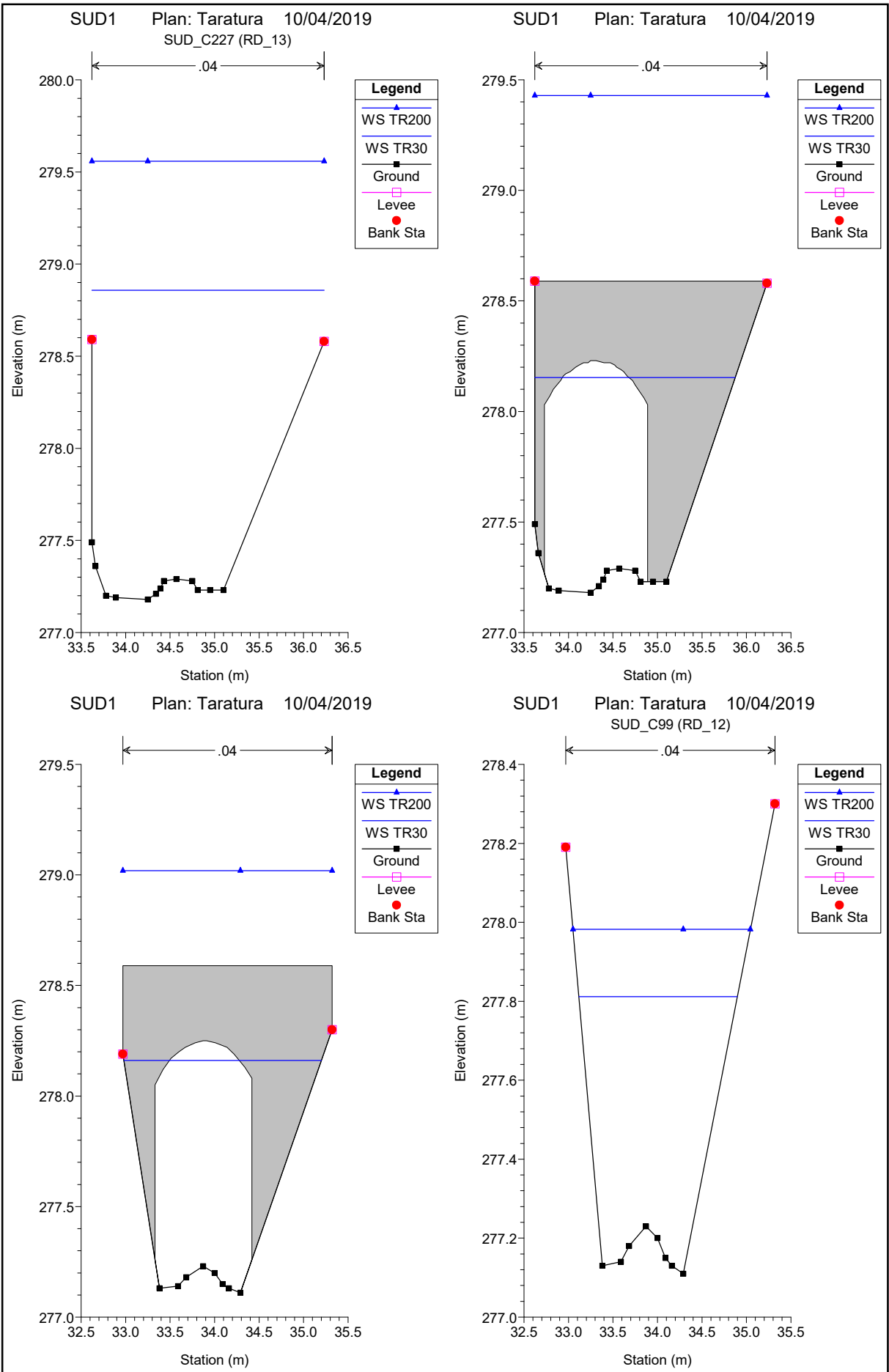


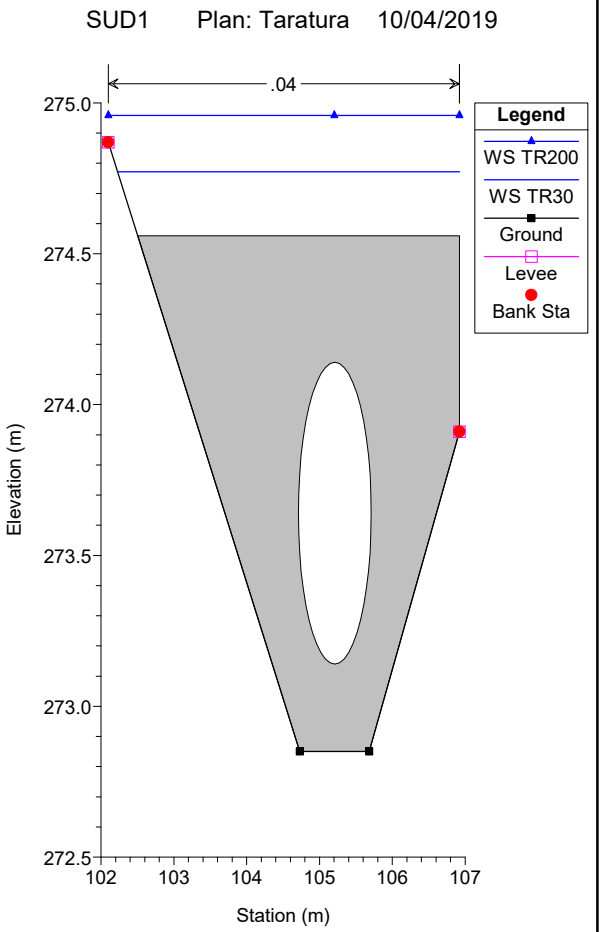
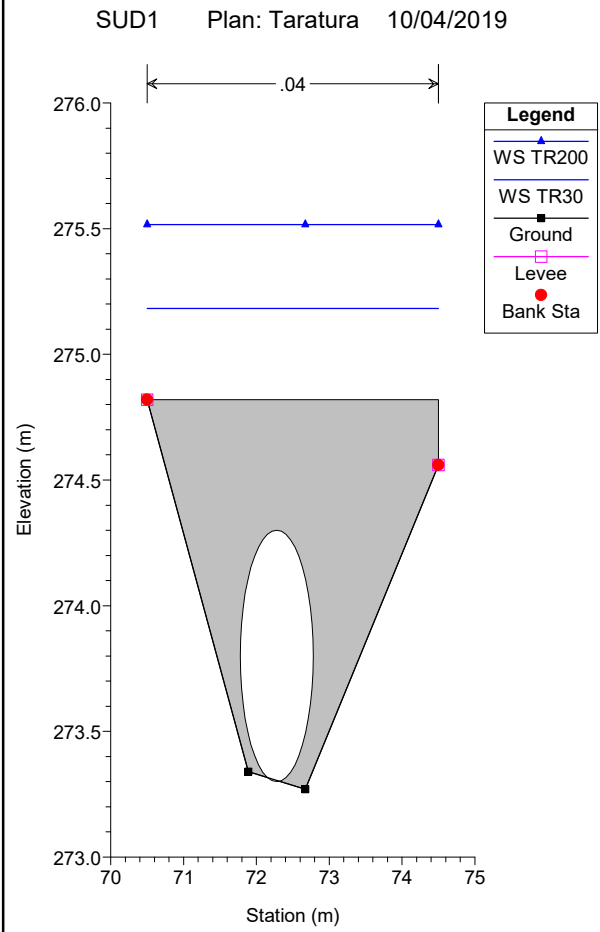
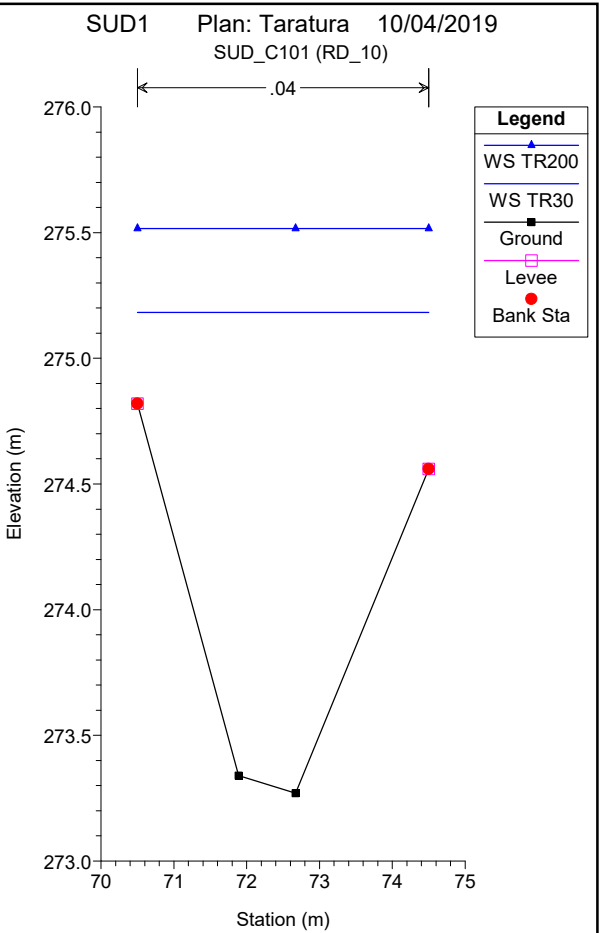
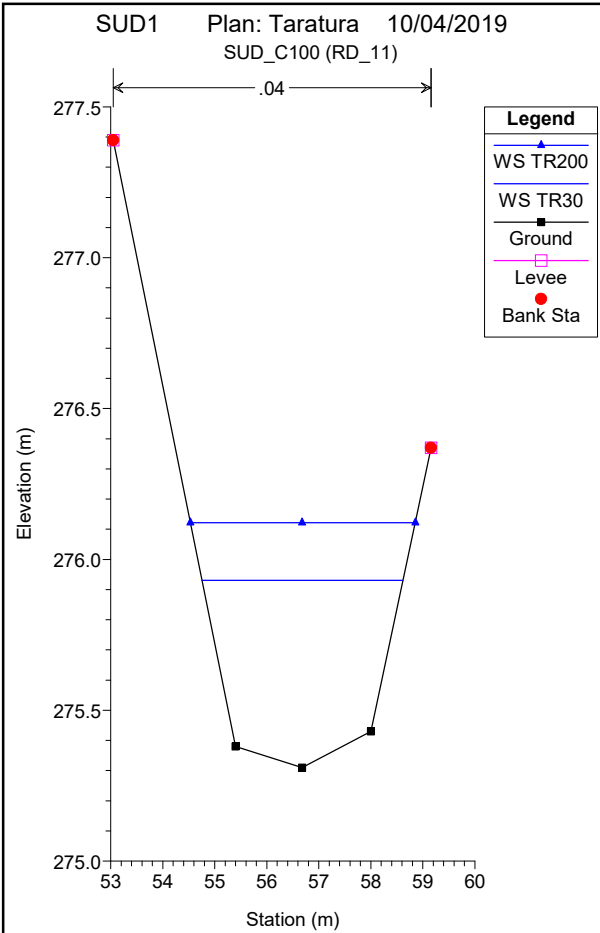
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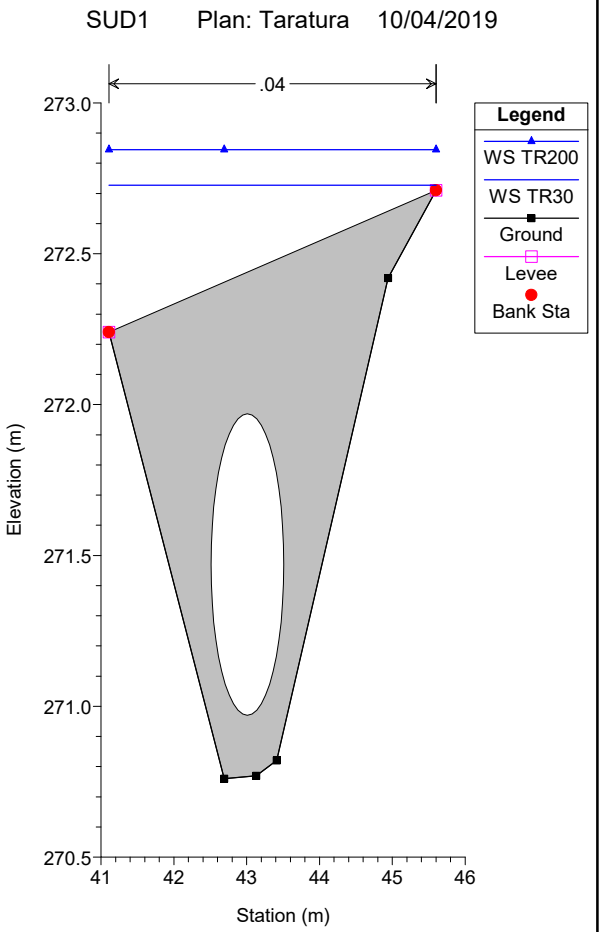
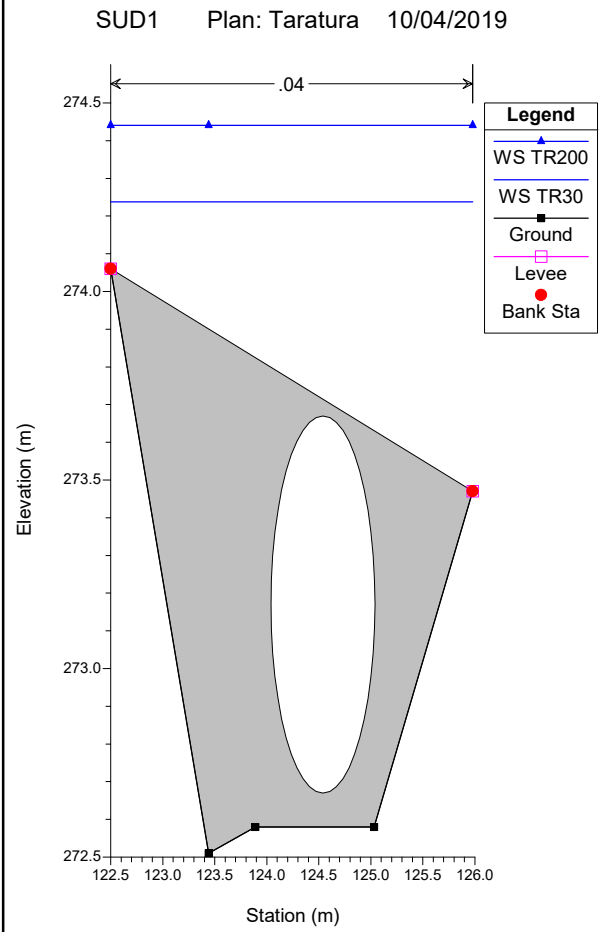
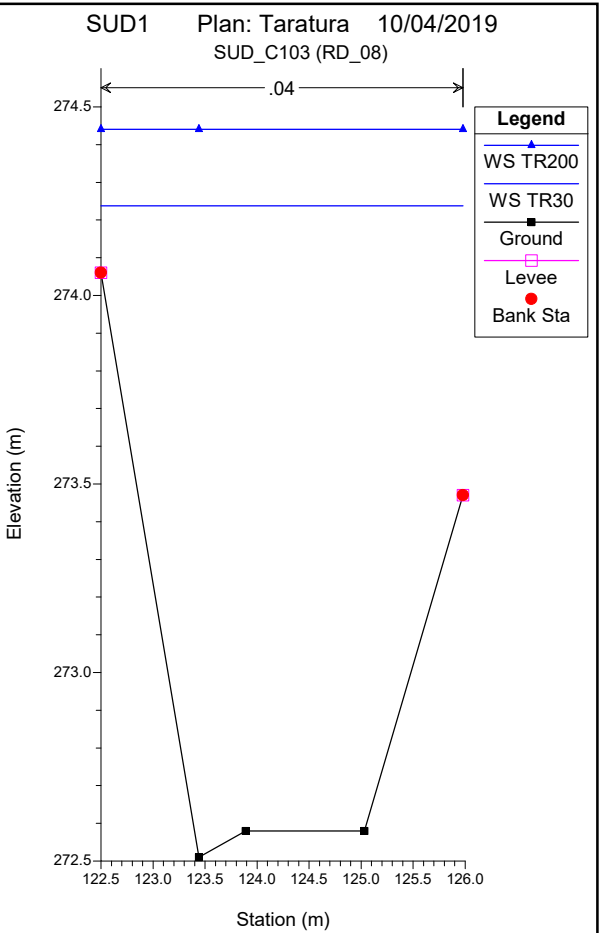
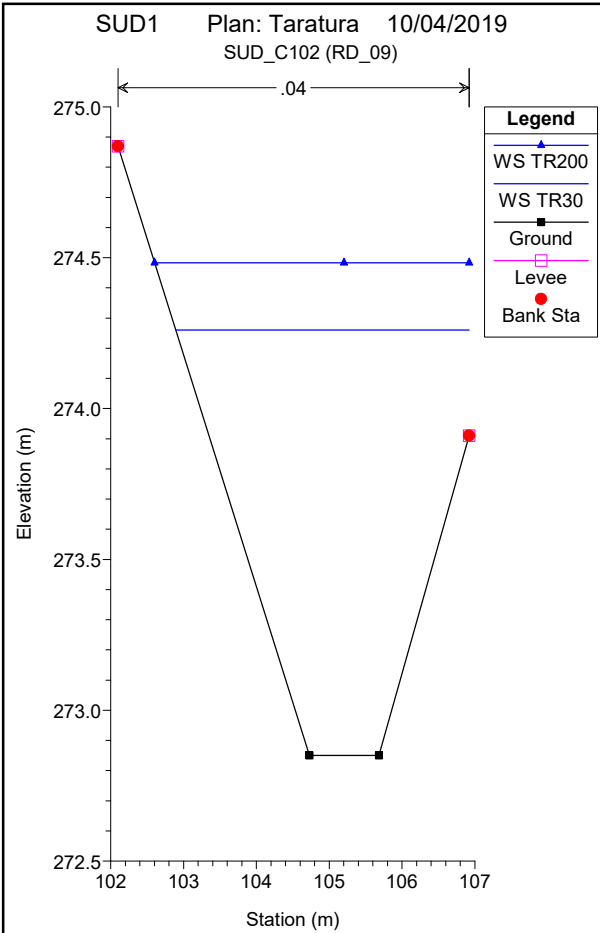


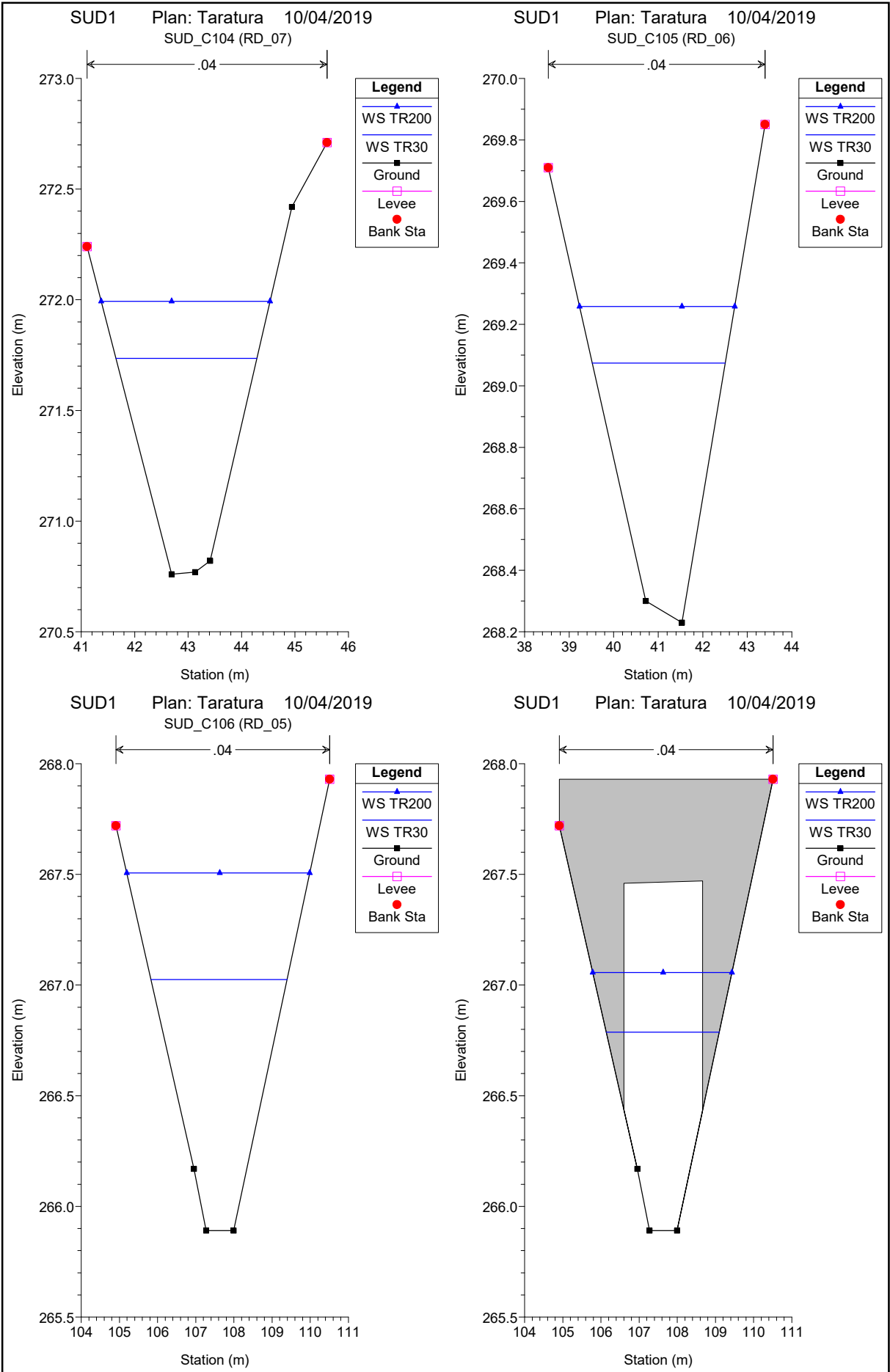
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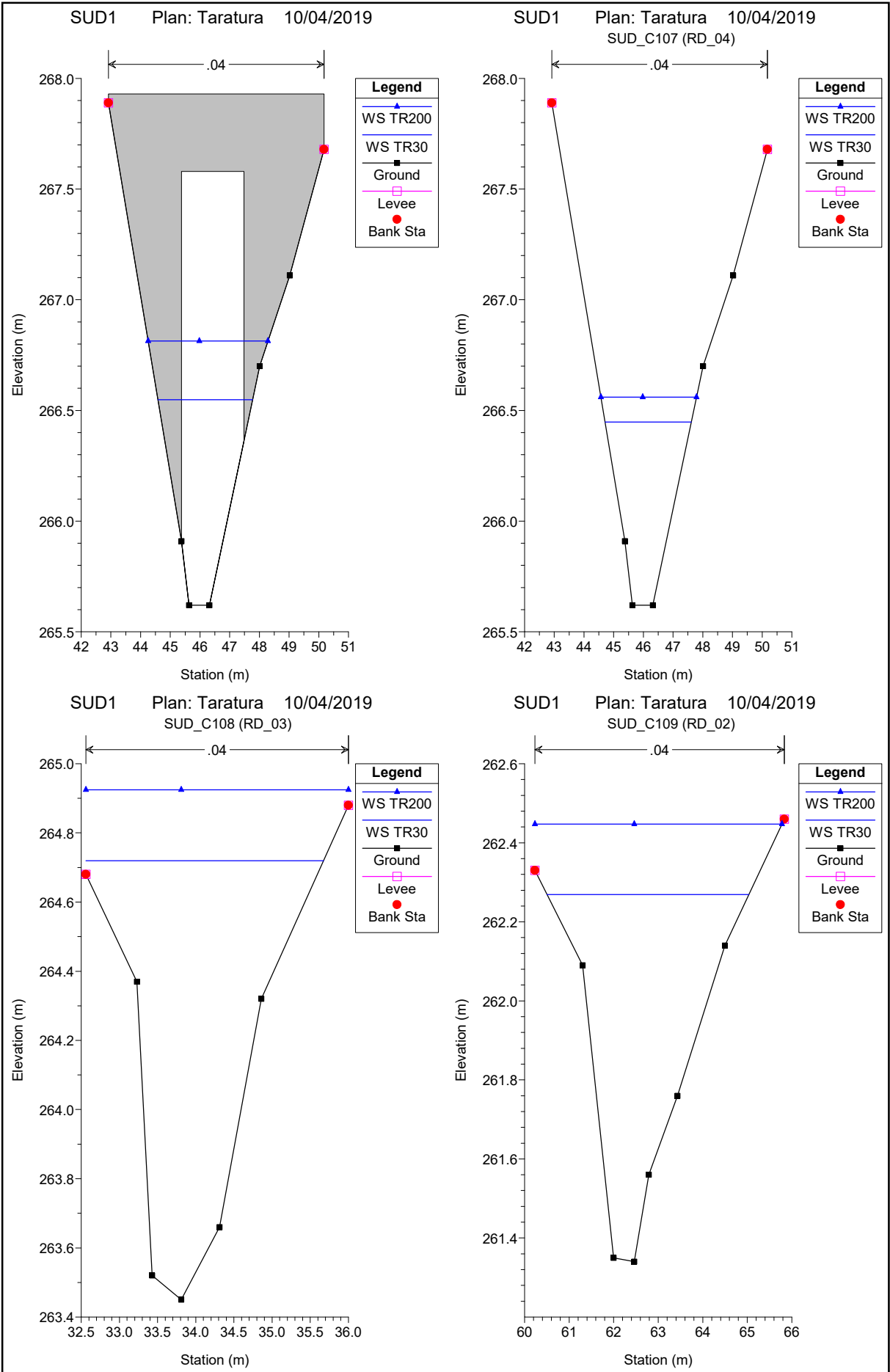


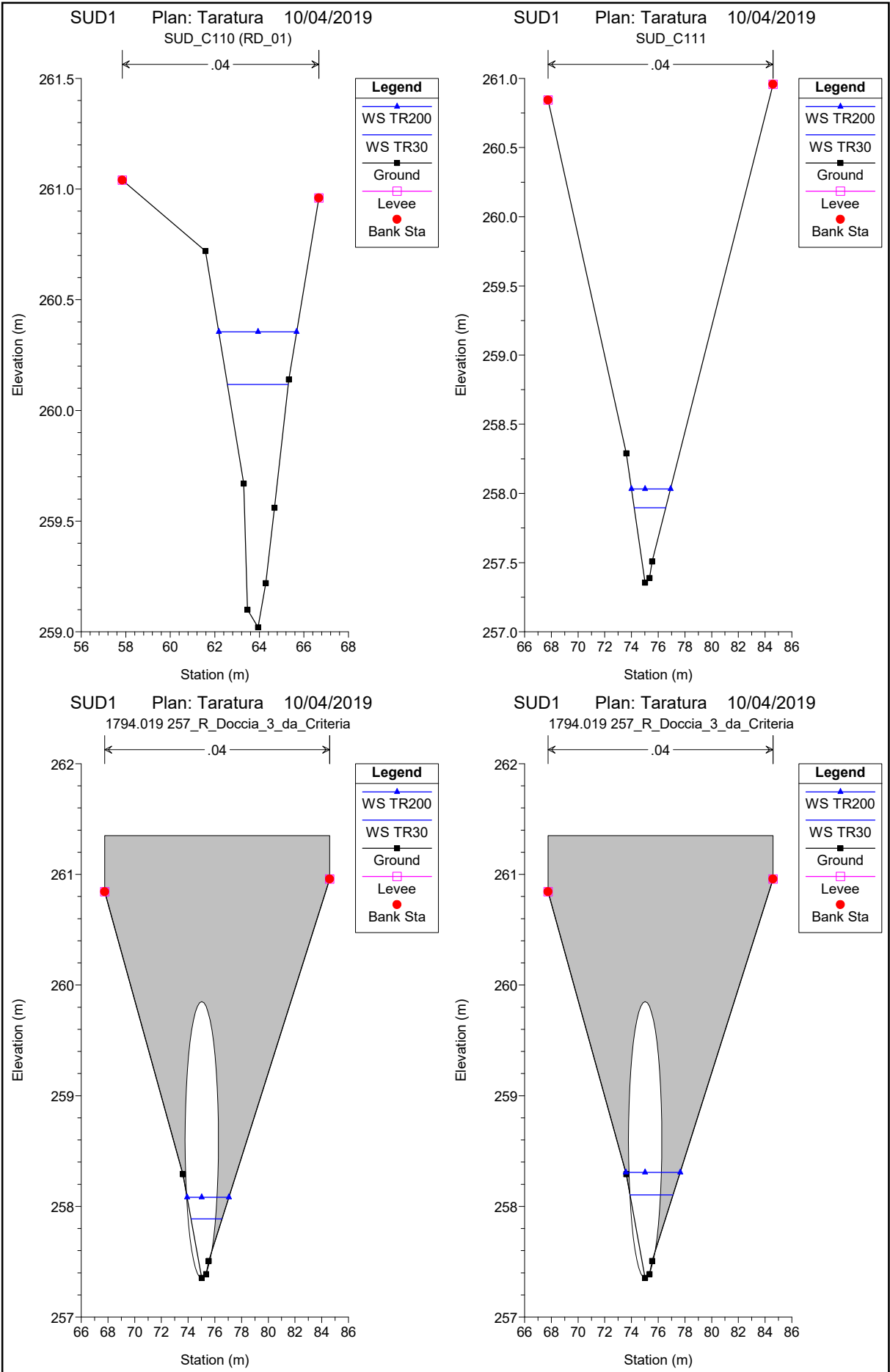


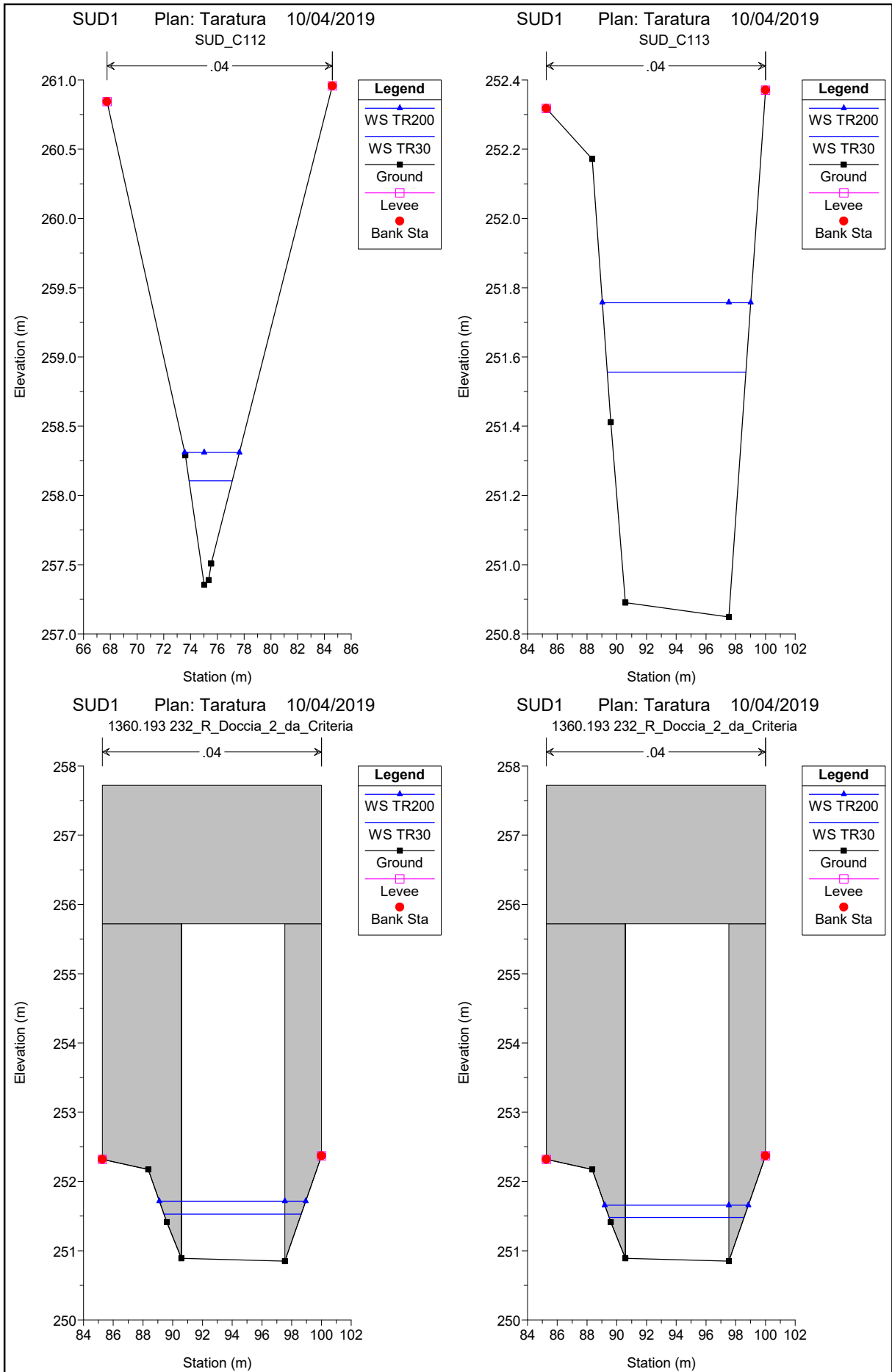


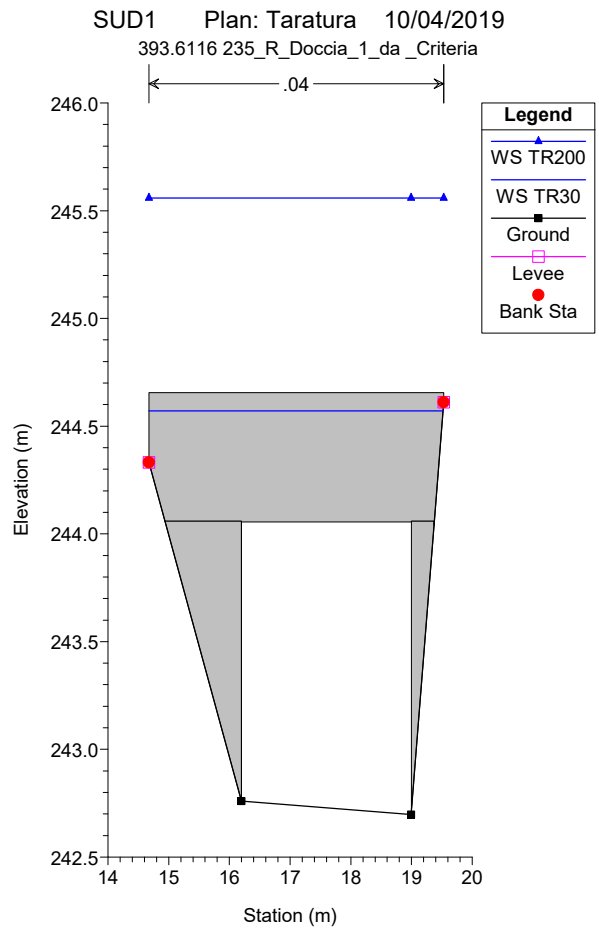
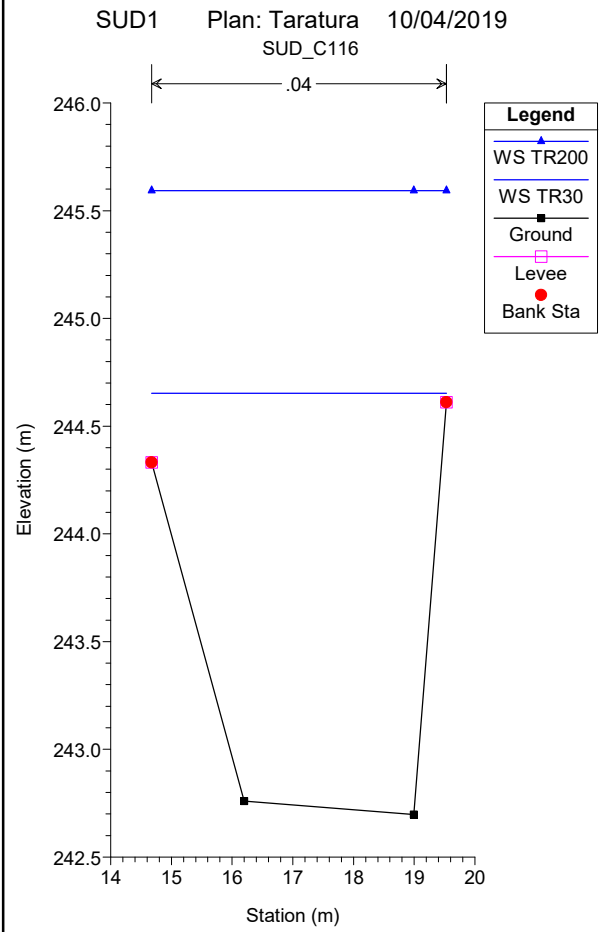
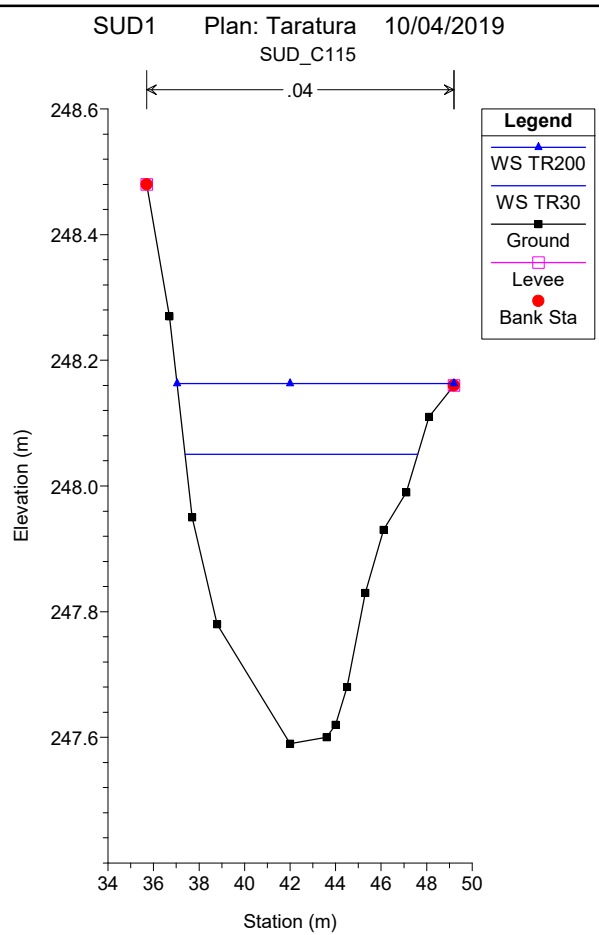
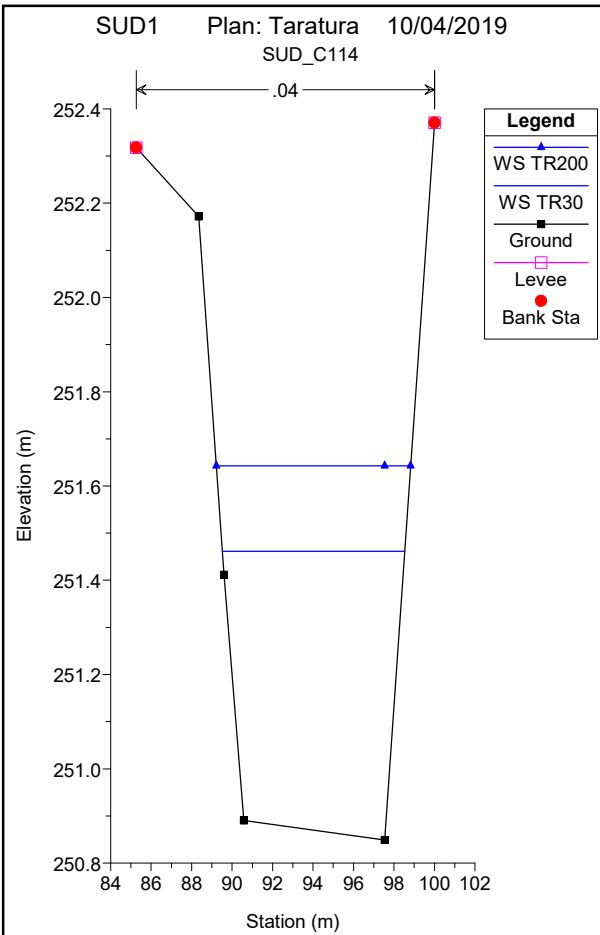


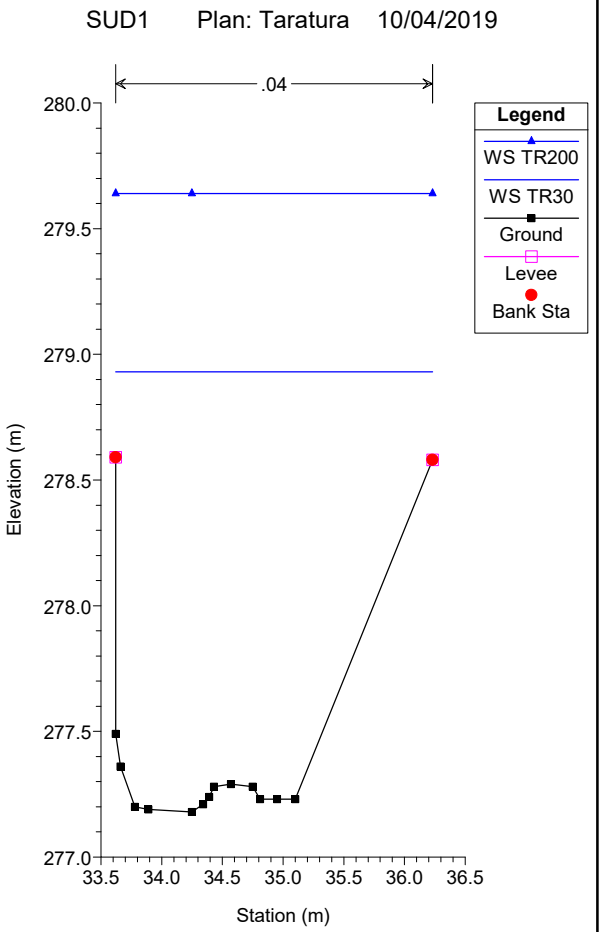
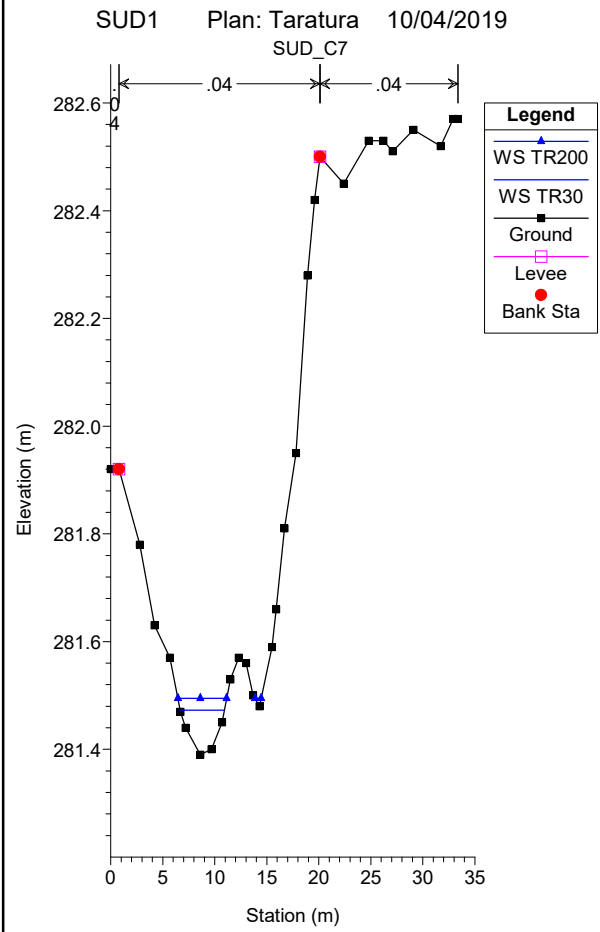
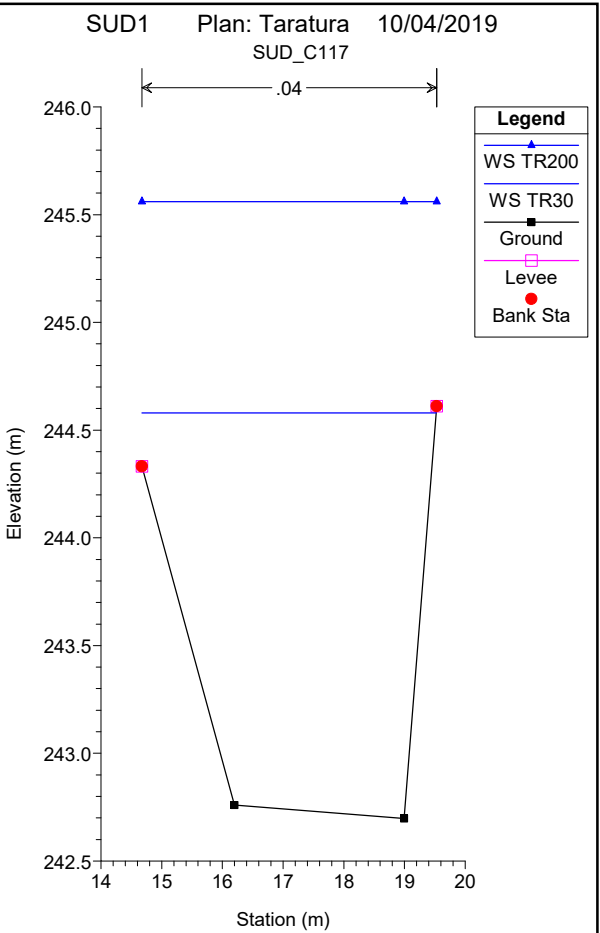
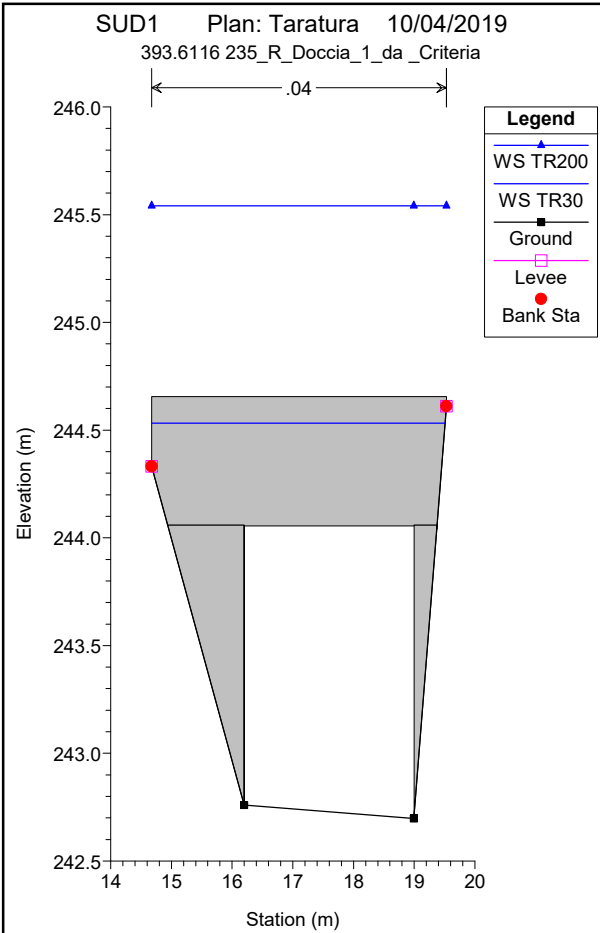


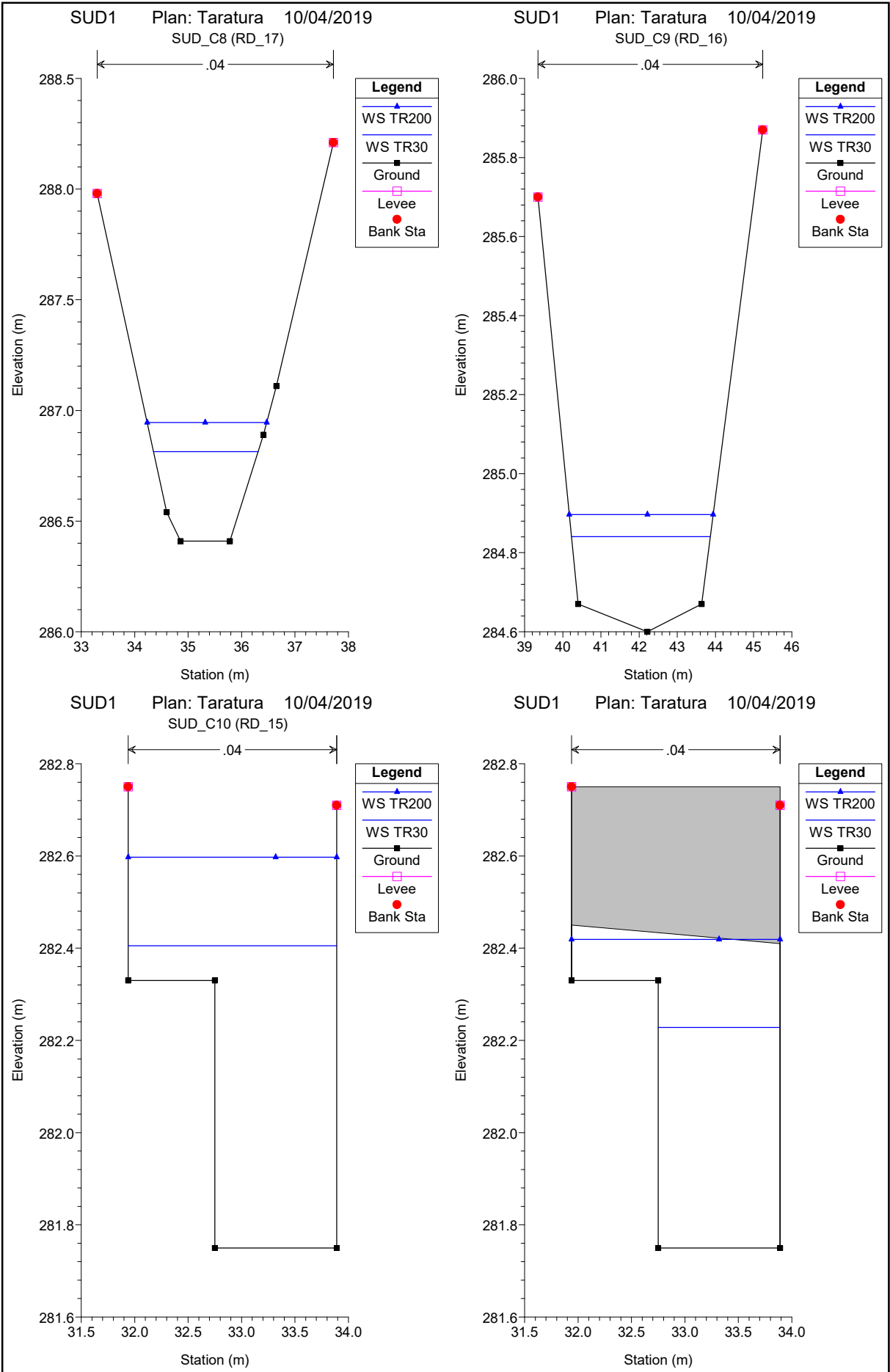


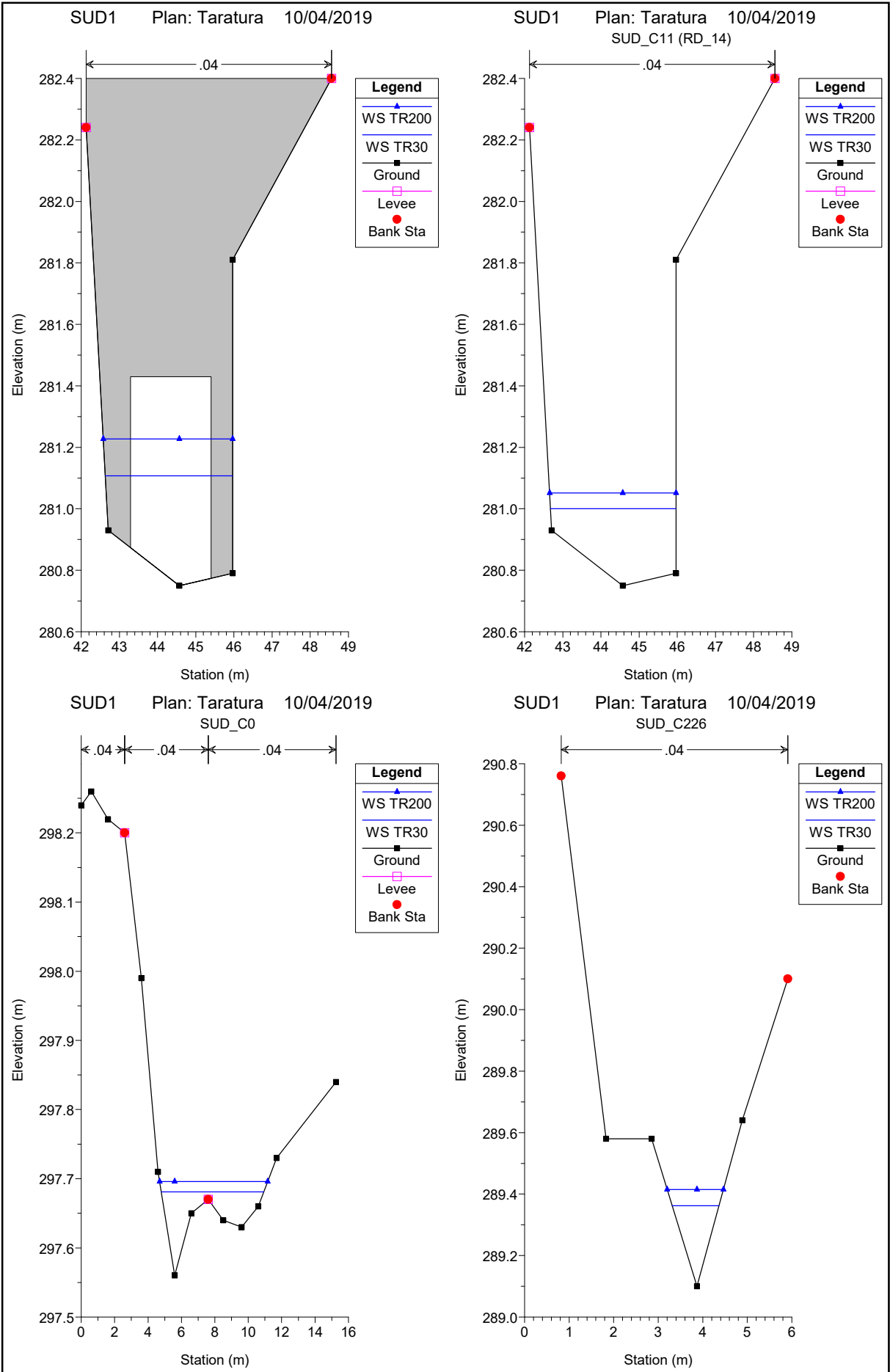


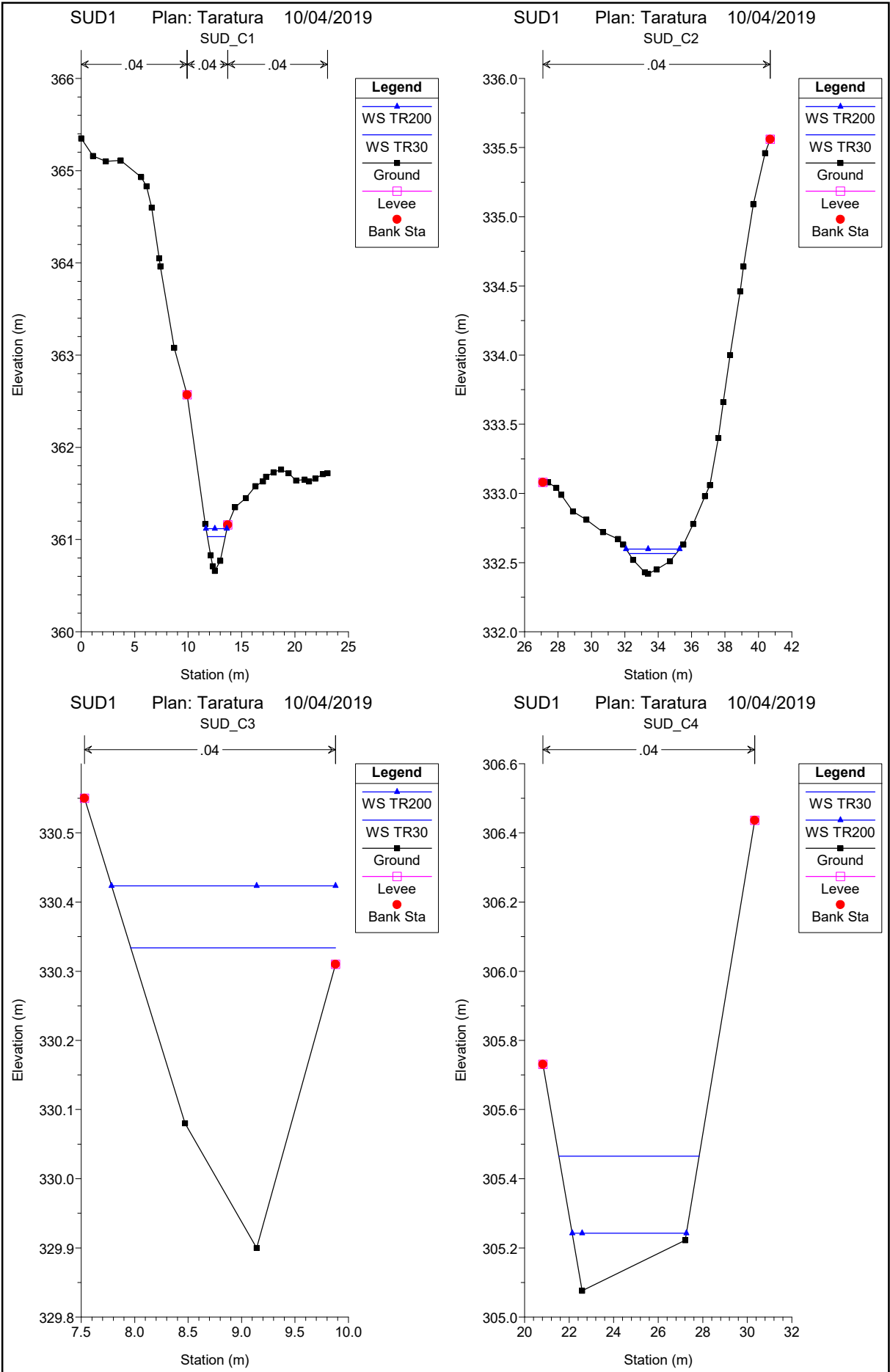


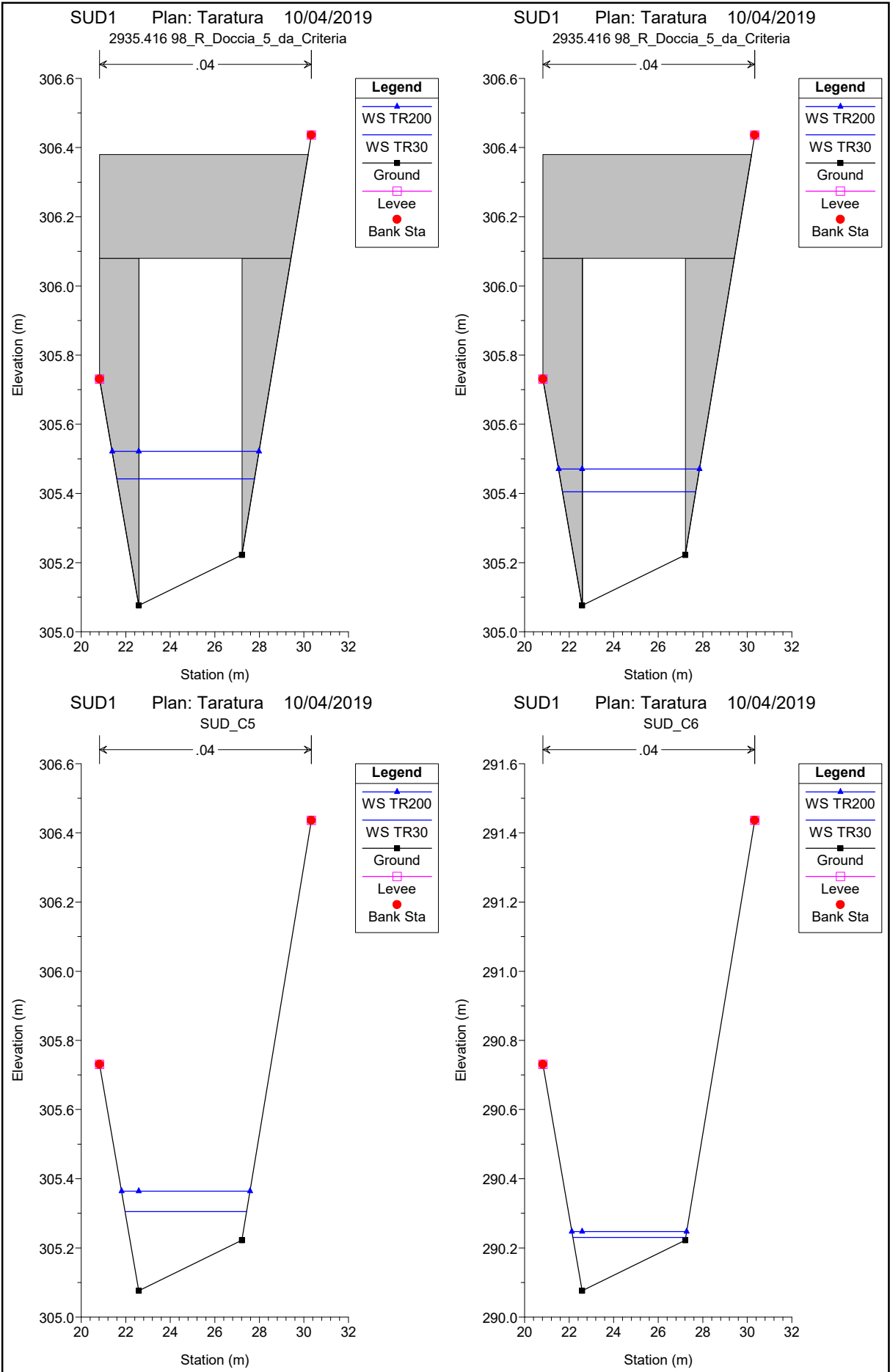




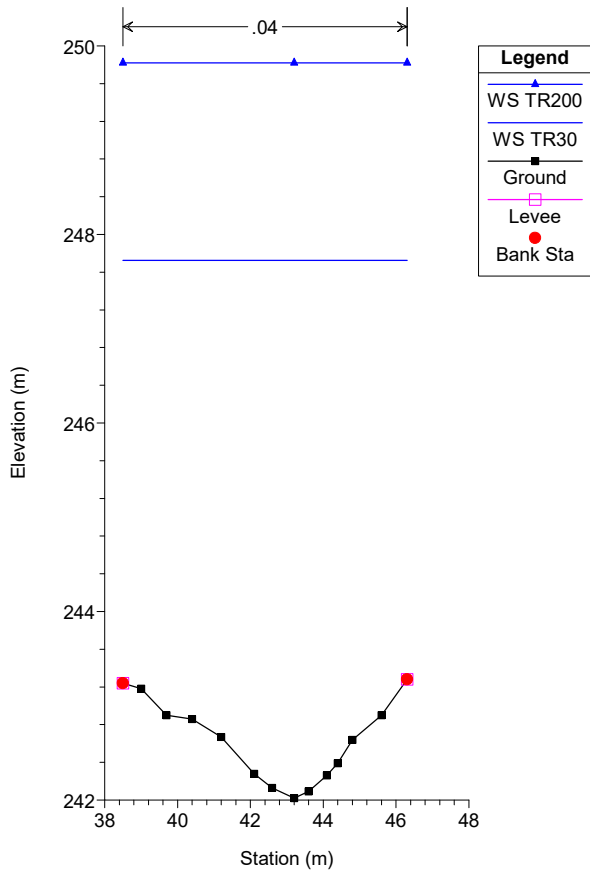




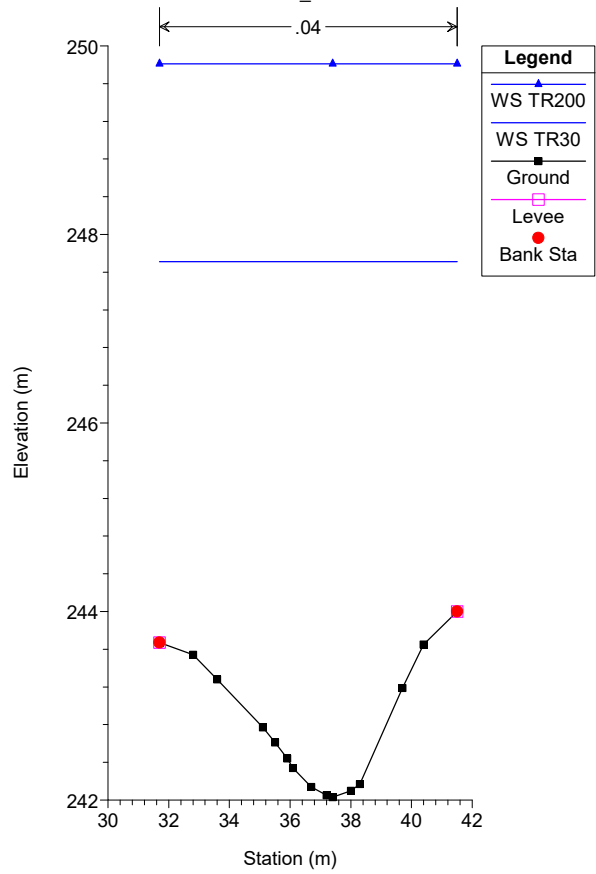




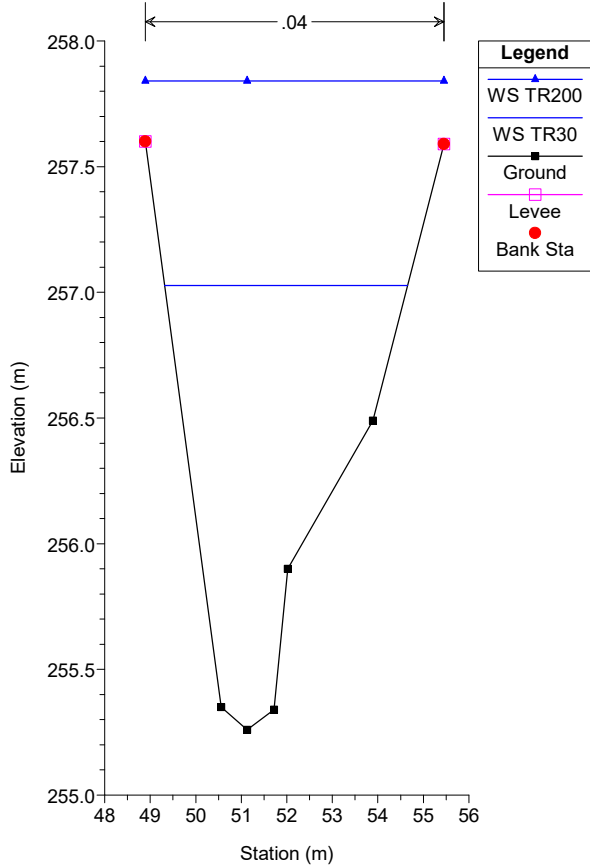
SUD1 Plan: Taratura 10/04/2019



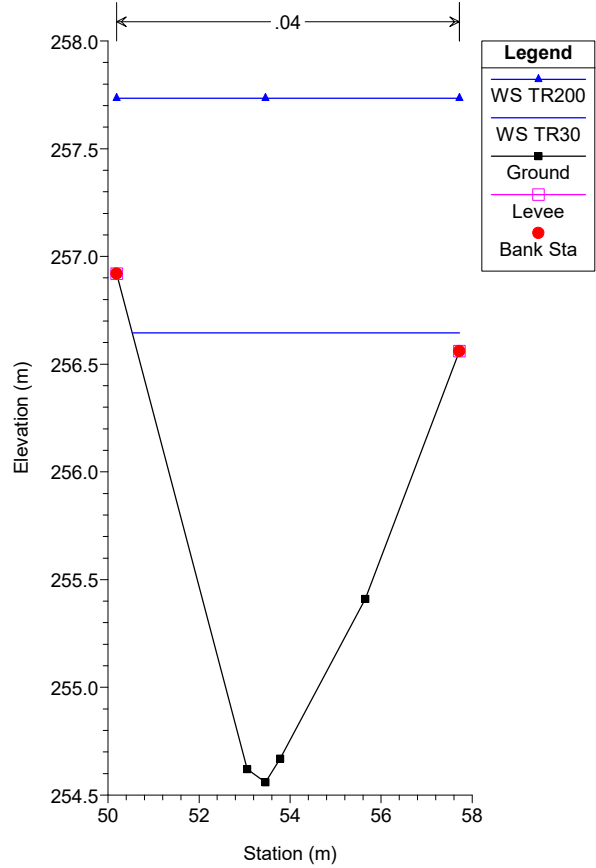
SUD1 Plan: Taratura 10/04/2019
SUD_C199

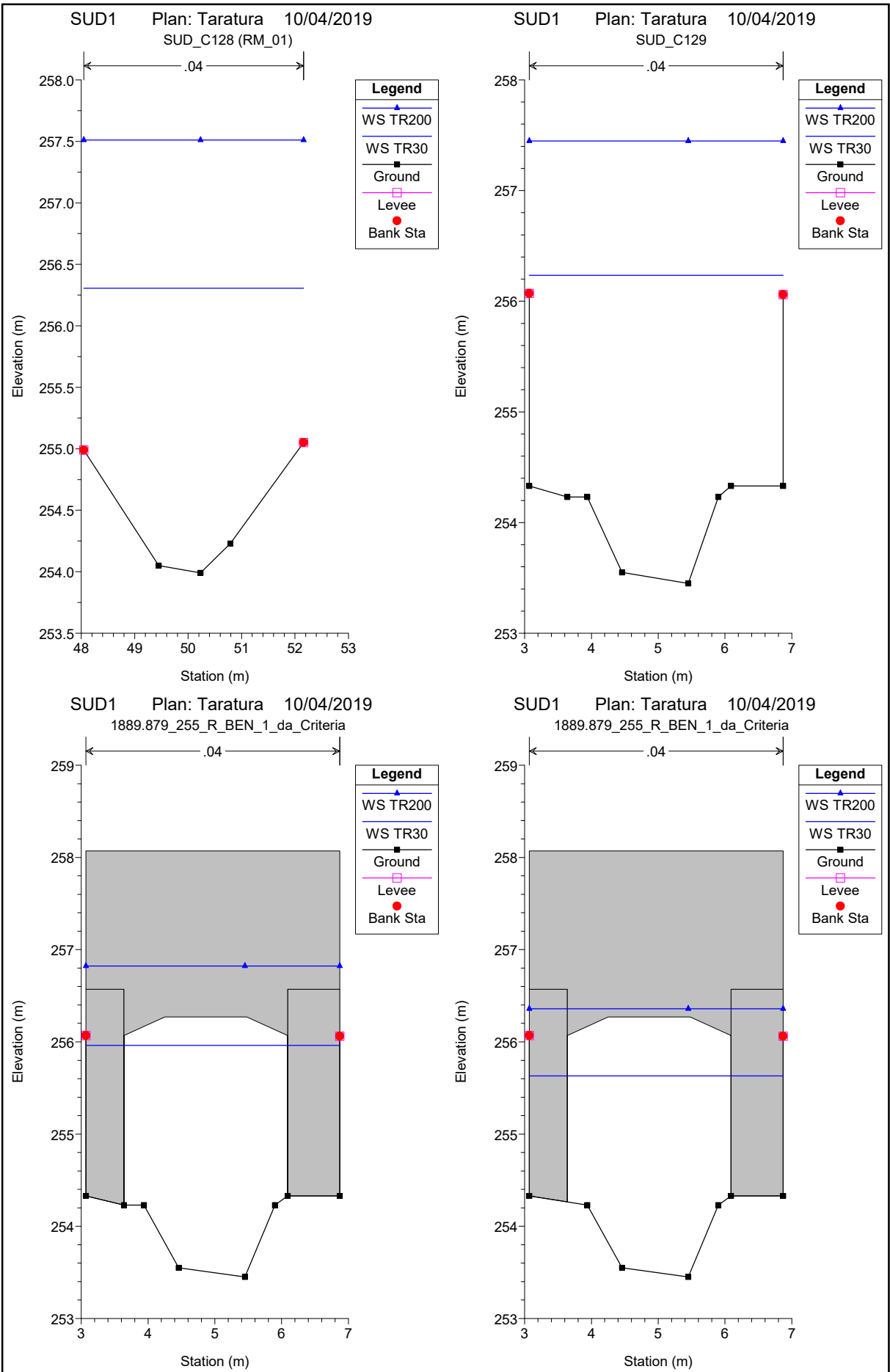


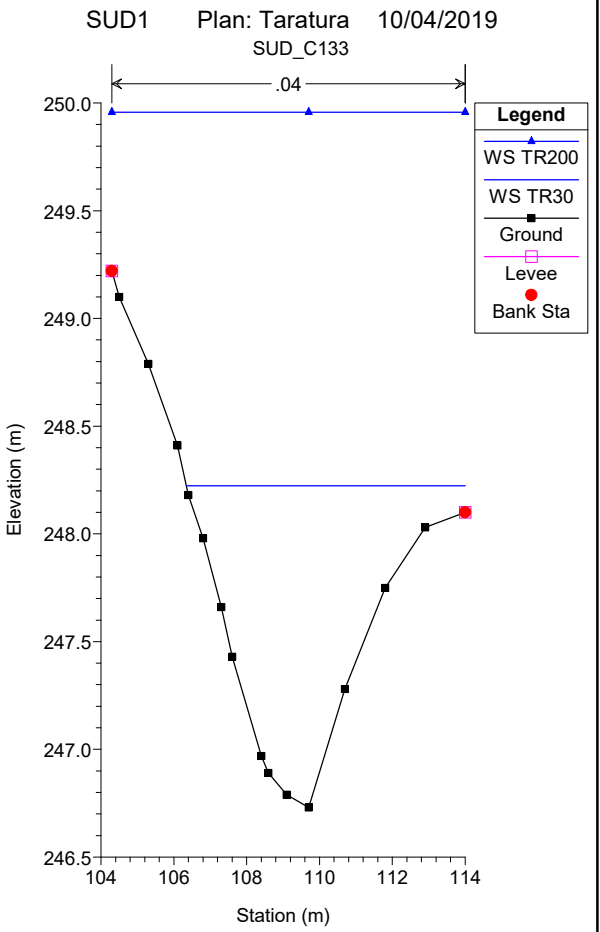
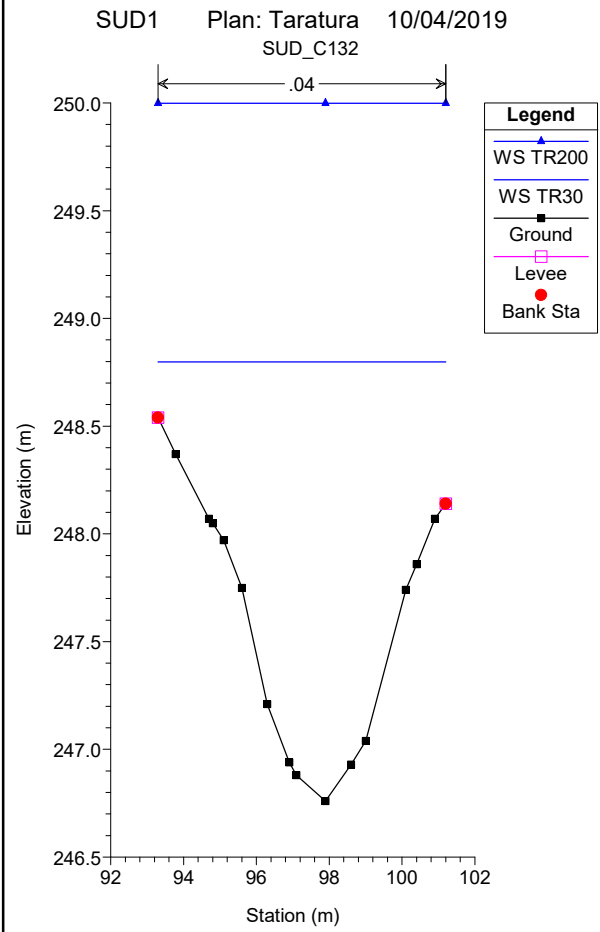
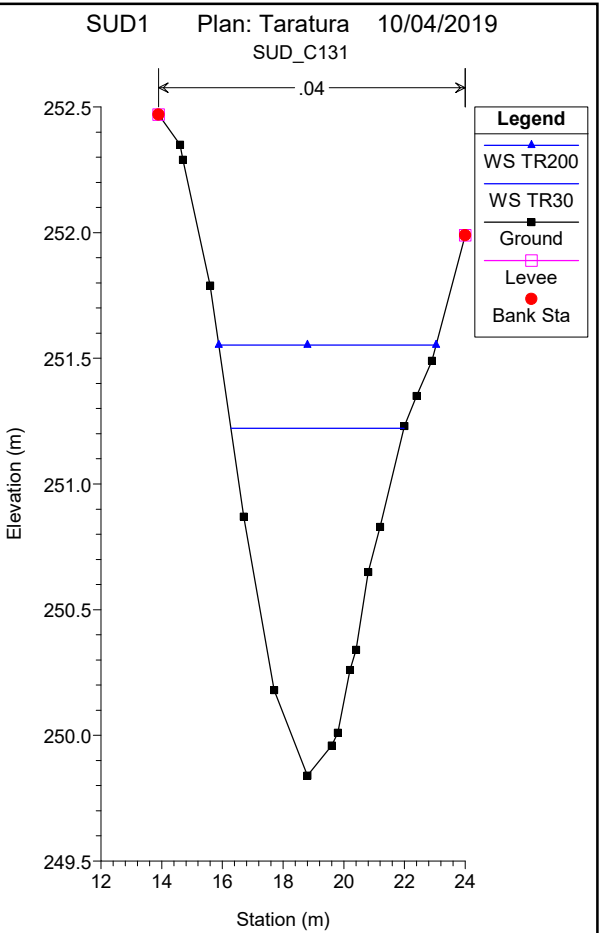
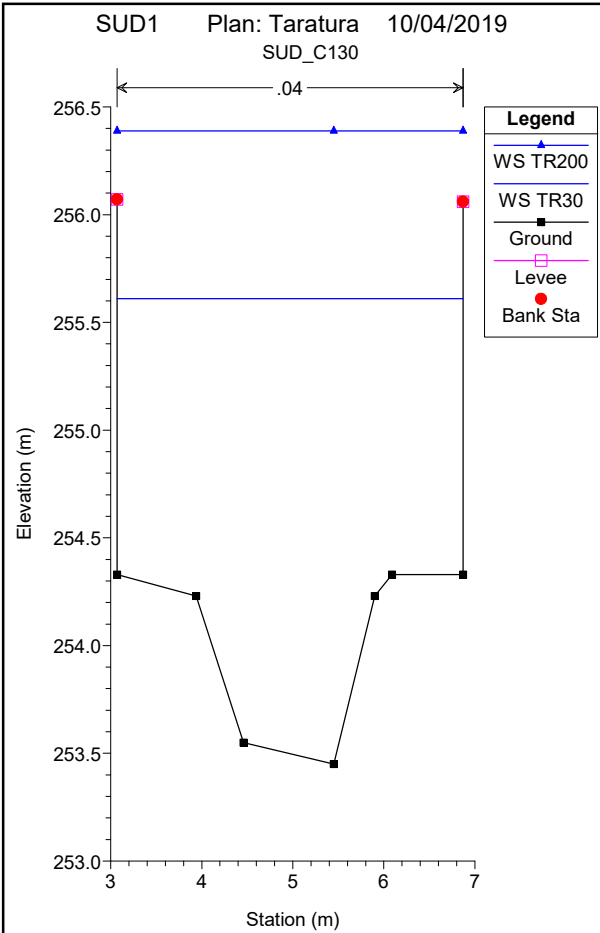
SUD1 Plan: Taratura 10/04/2019
SUD_C126 (RM_03)

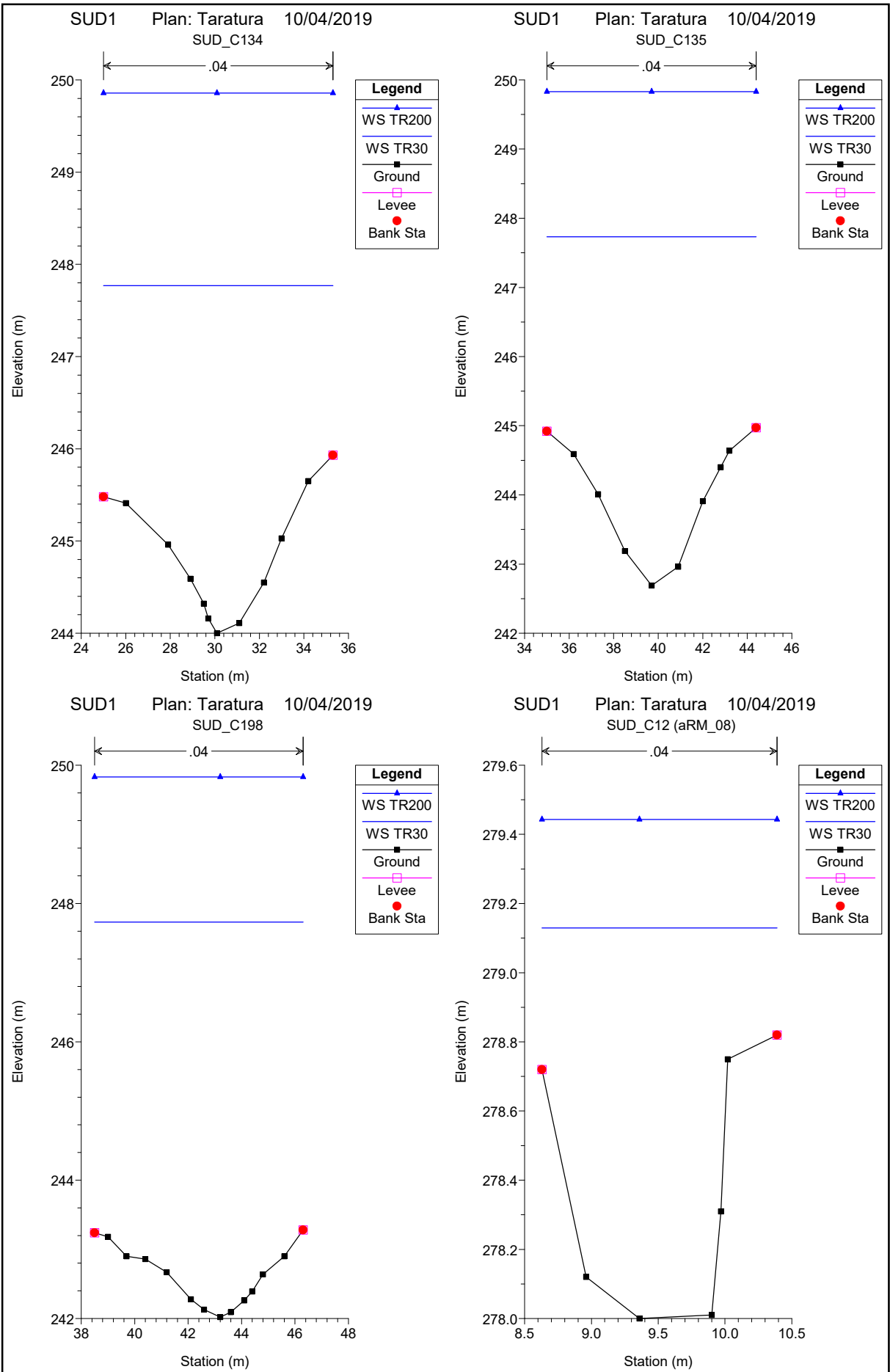


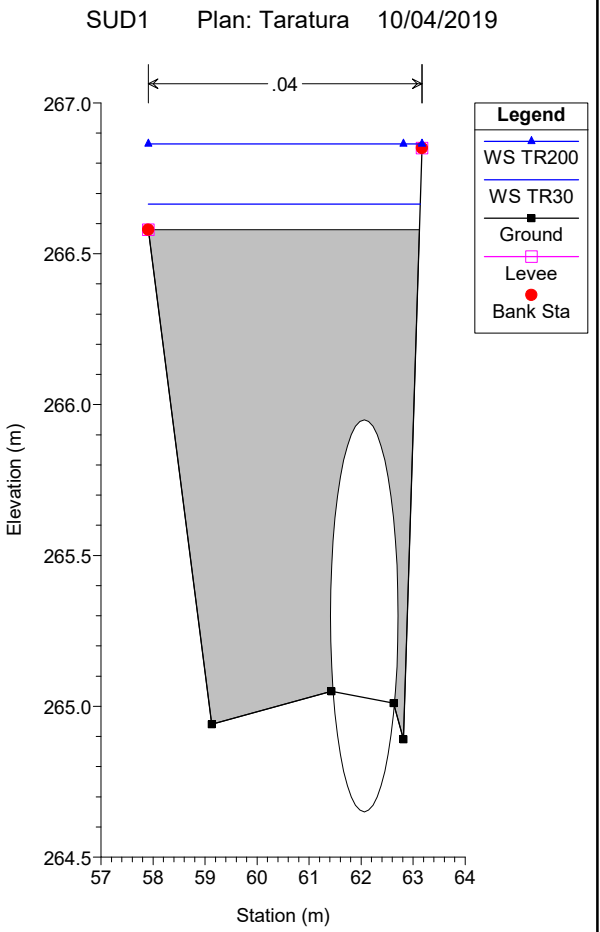
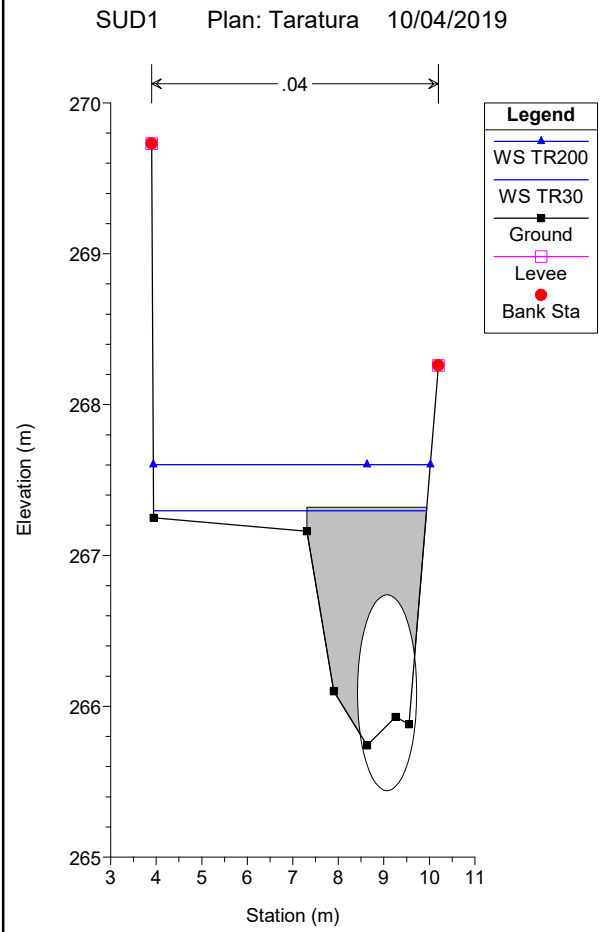
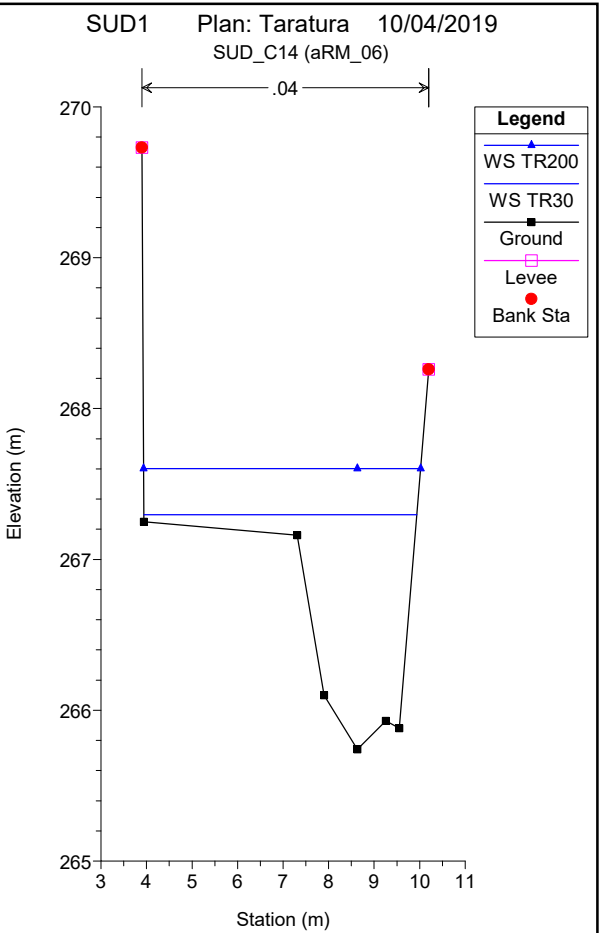
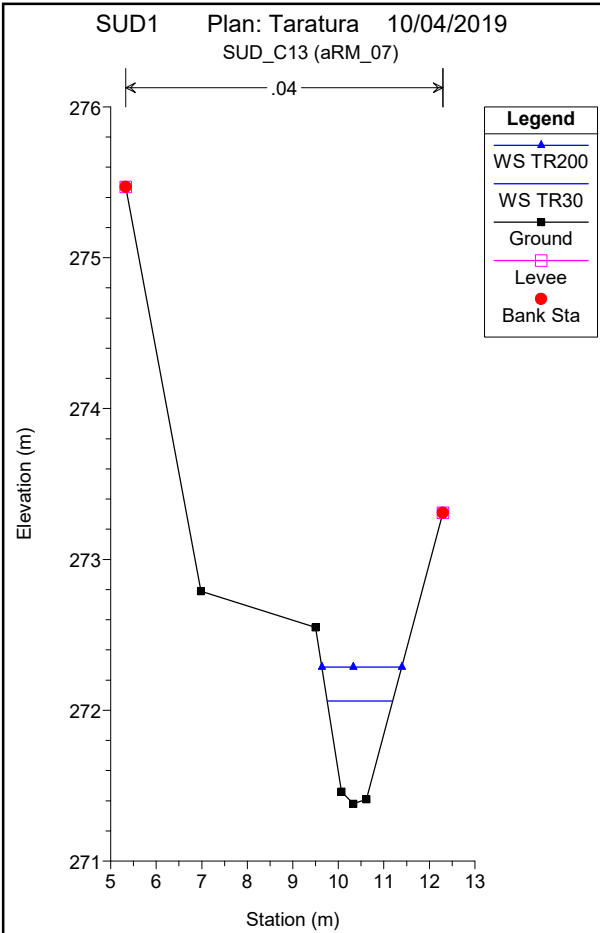
SUD1 Plan: Taratura 10/04/2019
SUD_C127 (RM_02)

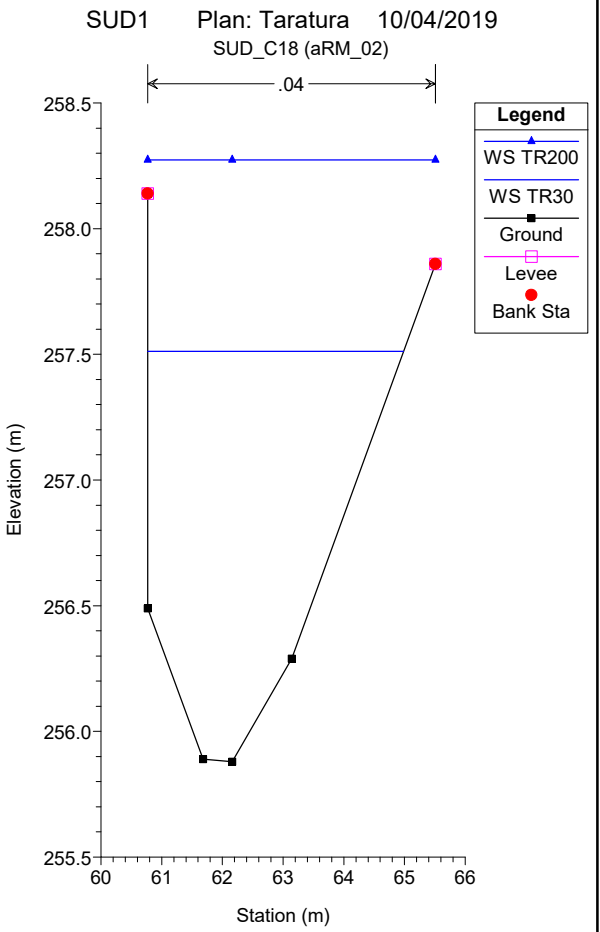
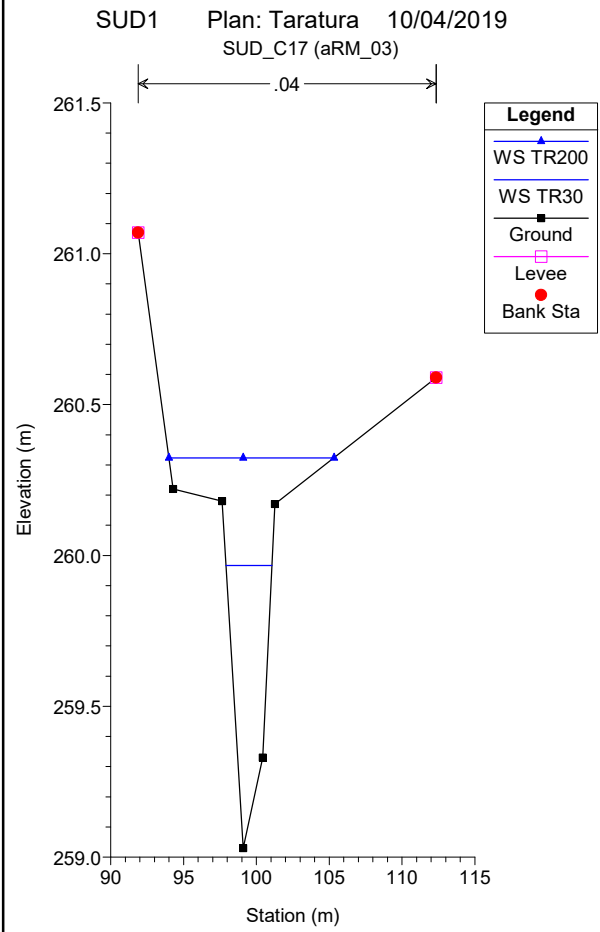
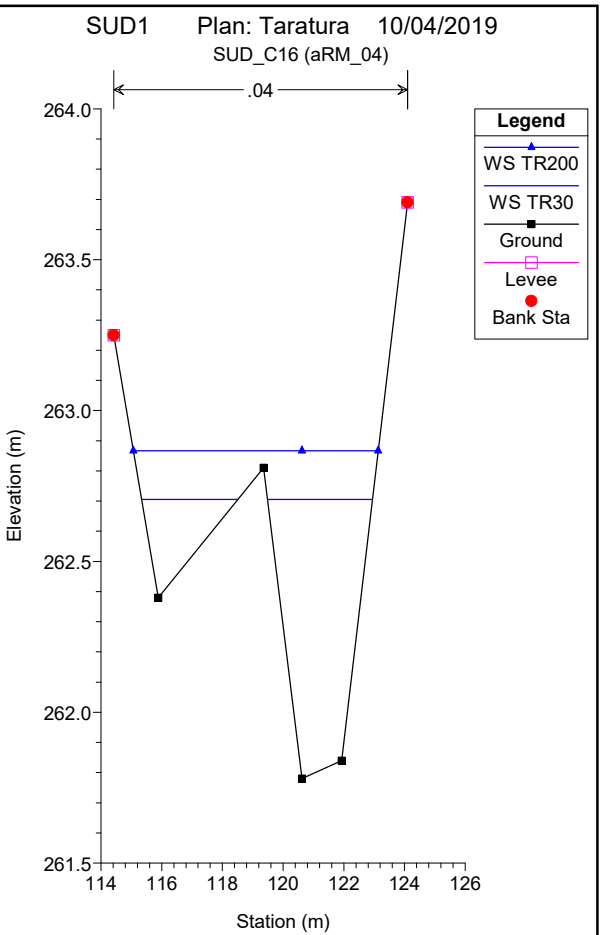
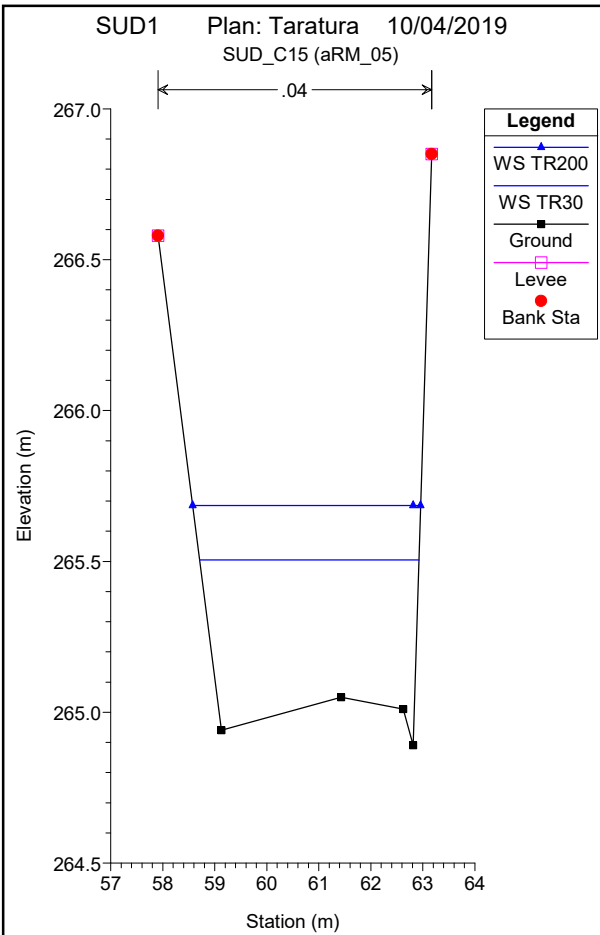




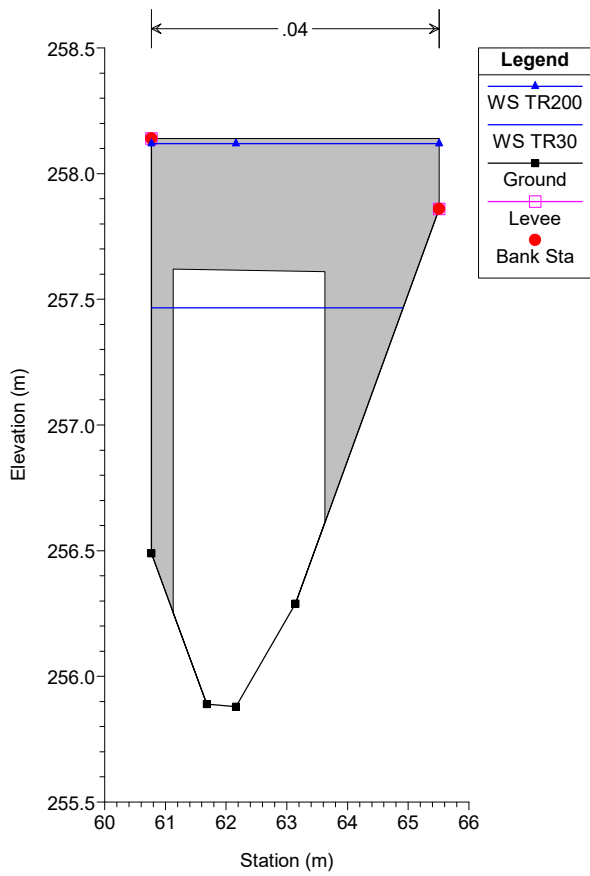




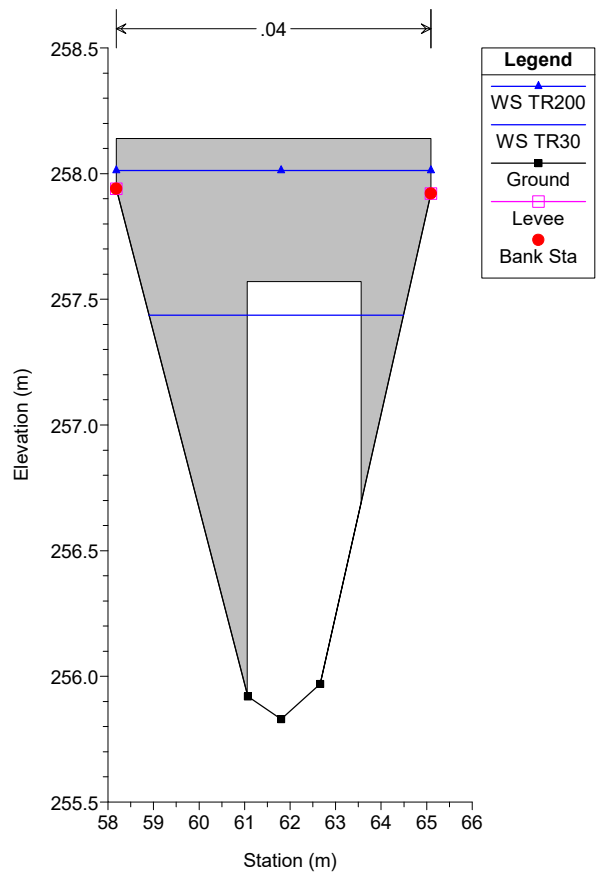




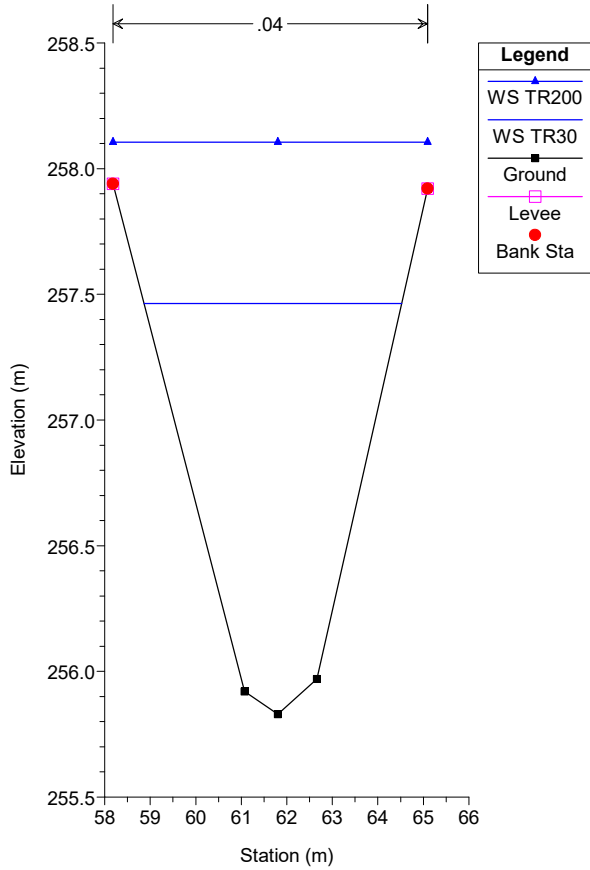
SUD1 Plan: Taratura 10/04/2019



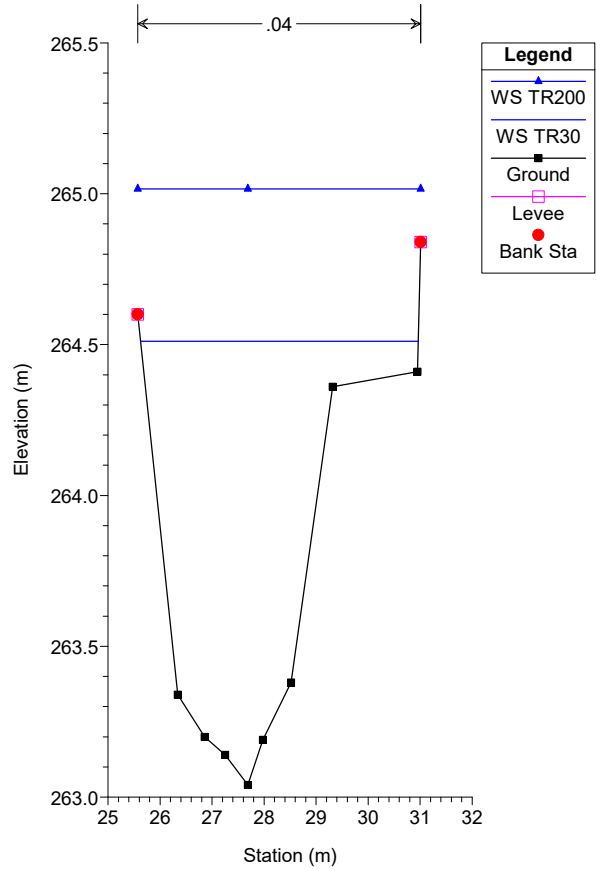
SUD1 Plan: Taratura 10/04/2019

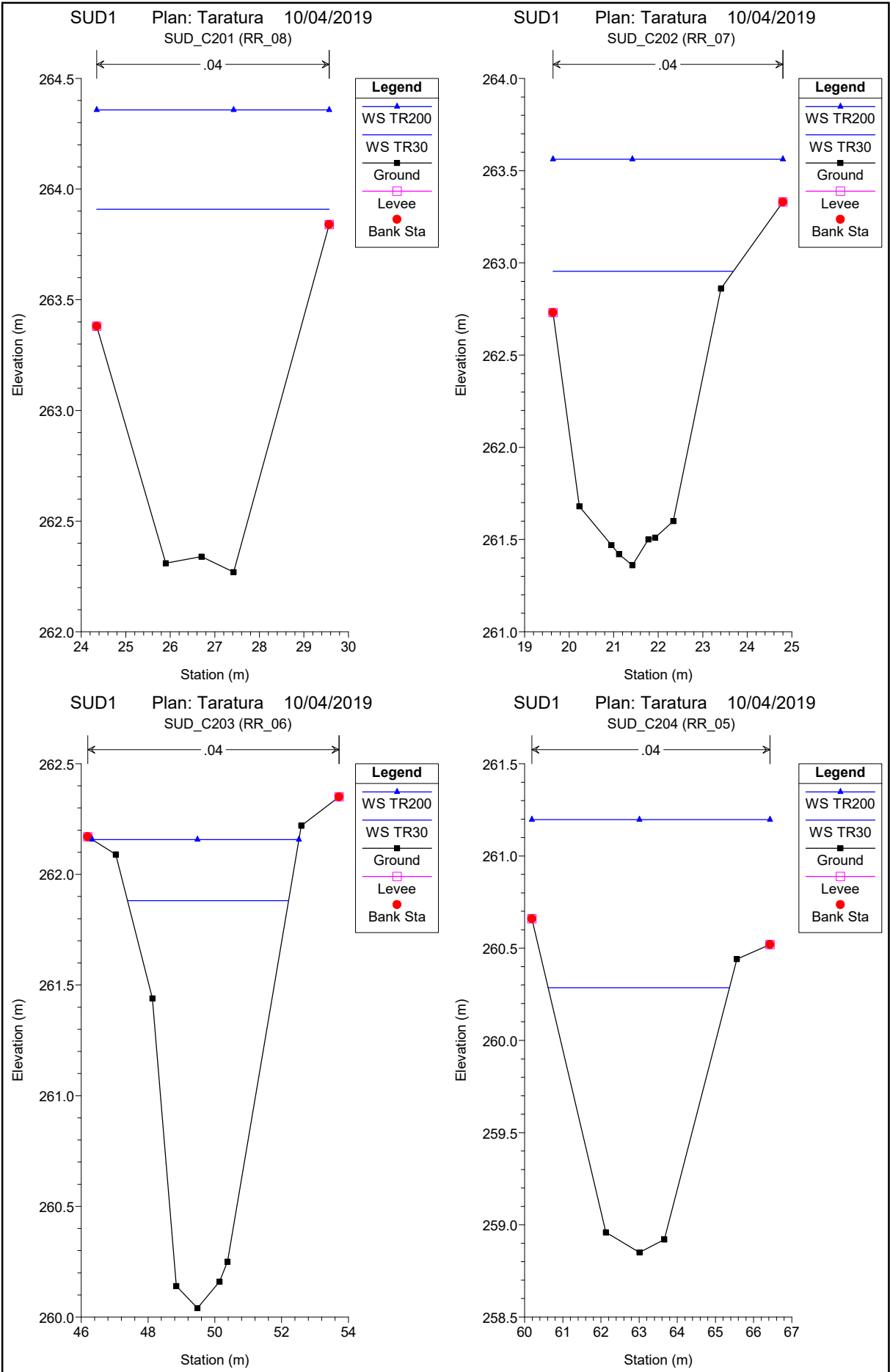


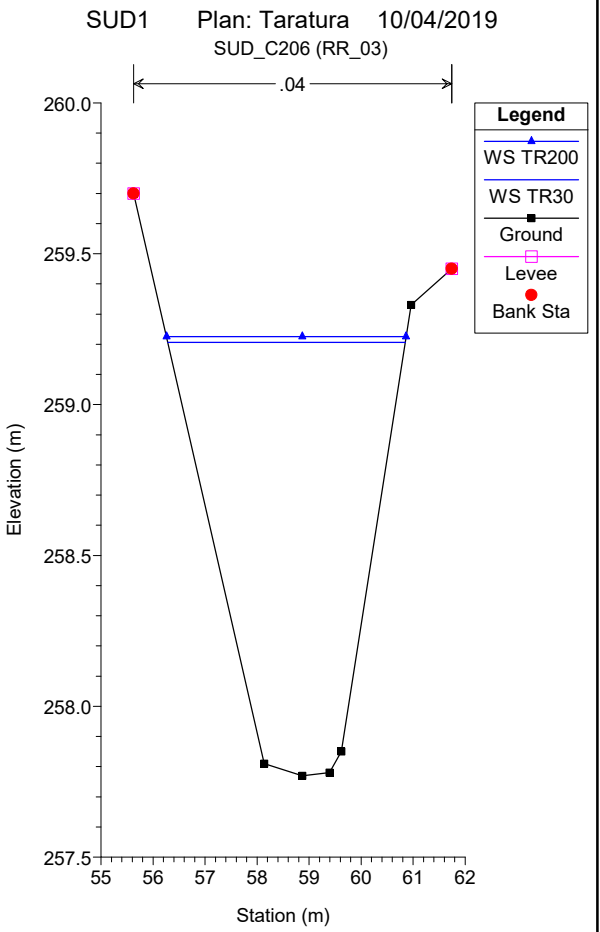
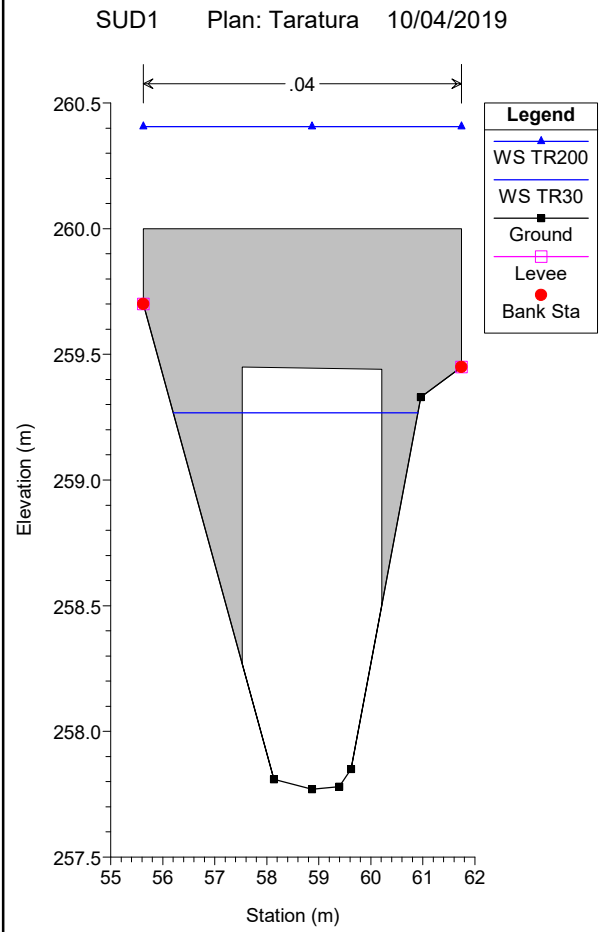
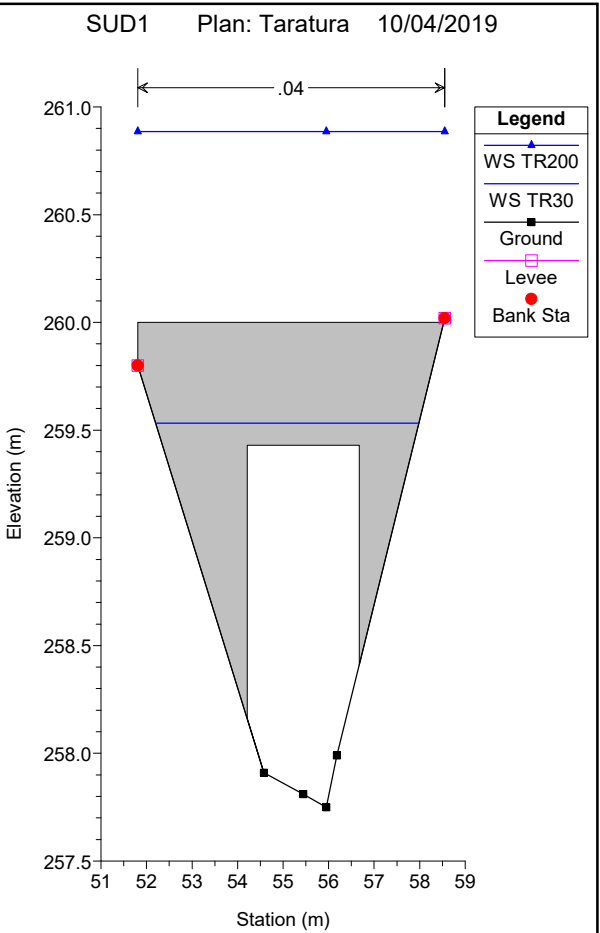
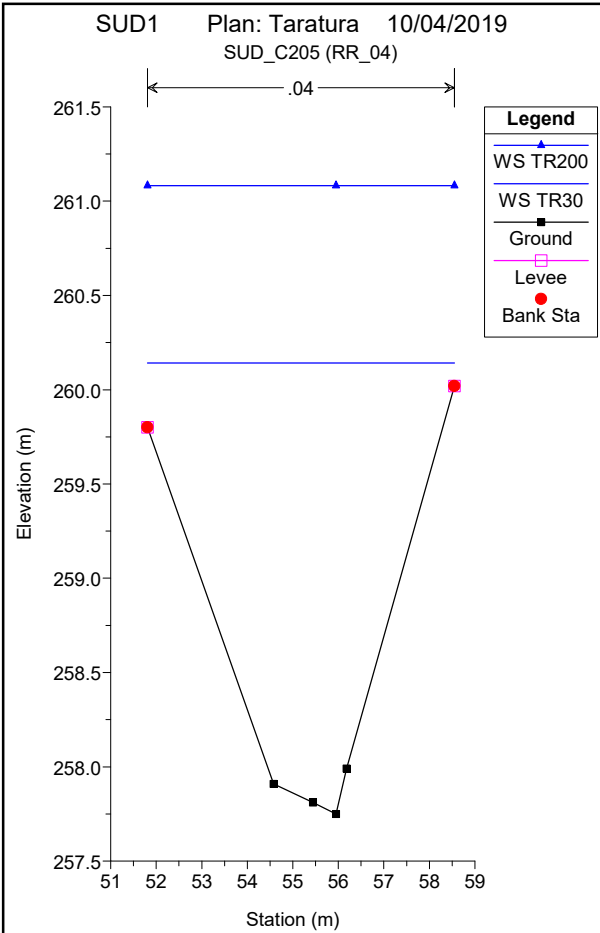
SUD1 Plan: Taratura 10/04/2019
SUD_C250 (aRM_01)

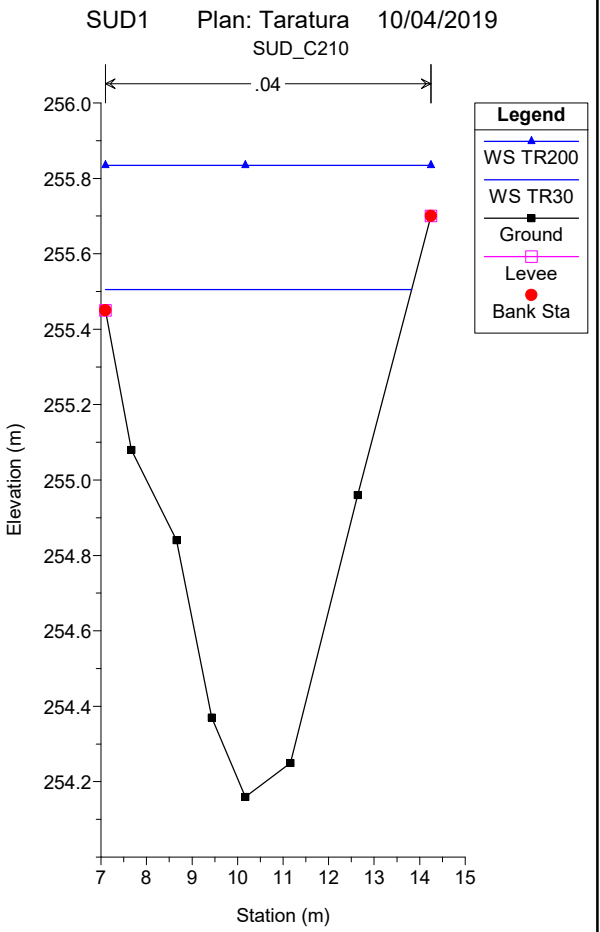
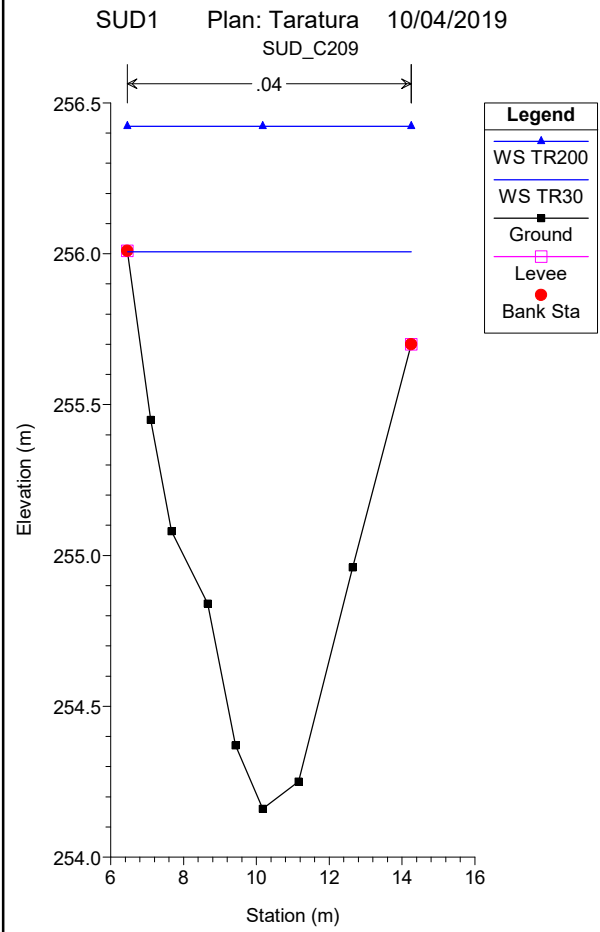
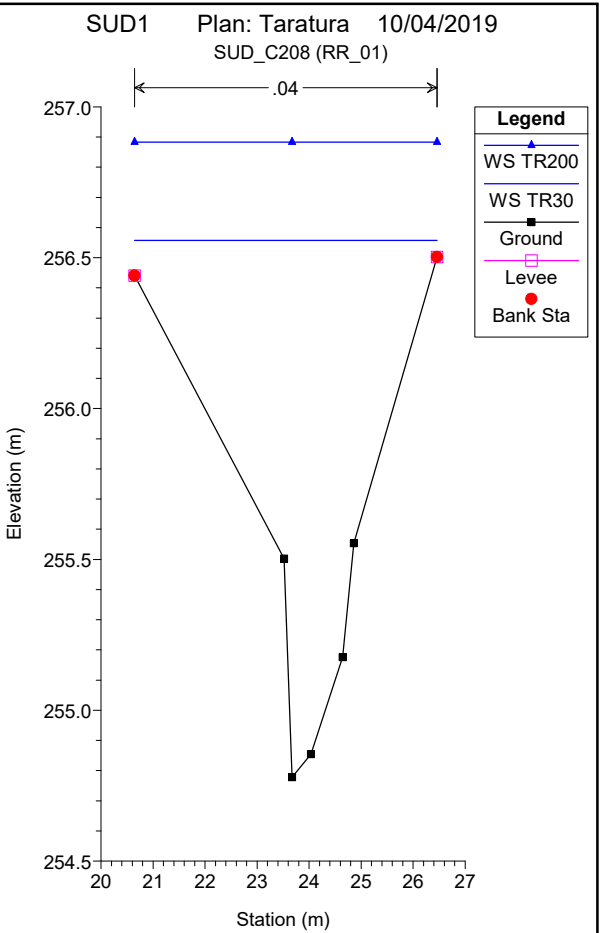
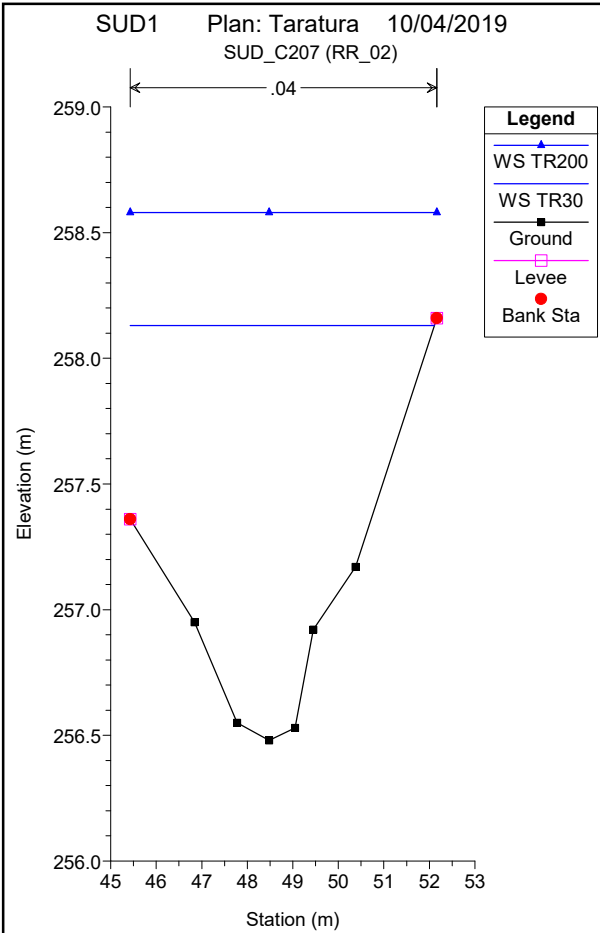


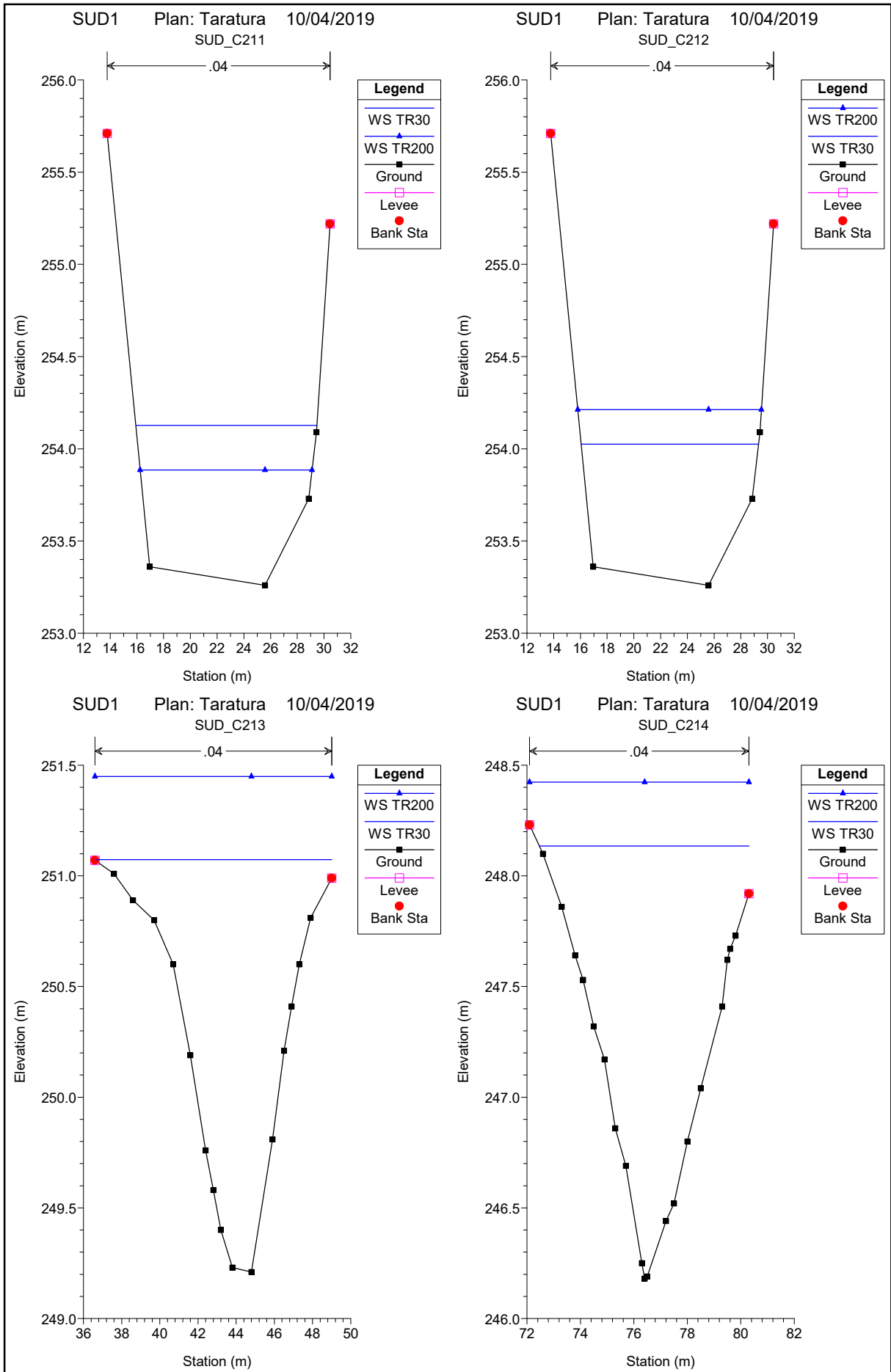
SUD1 Plan: Taratura 10/04/2019
SUD_C200 (RR_09)

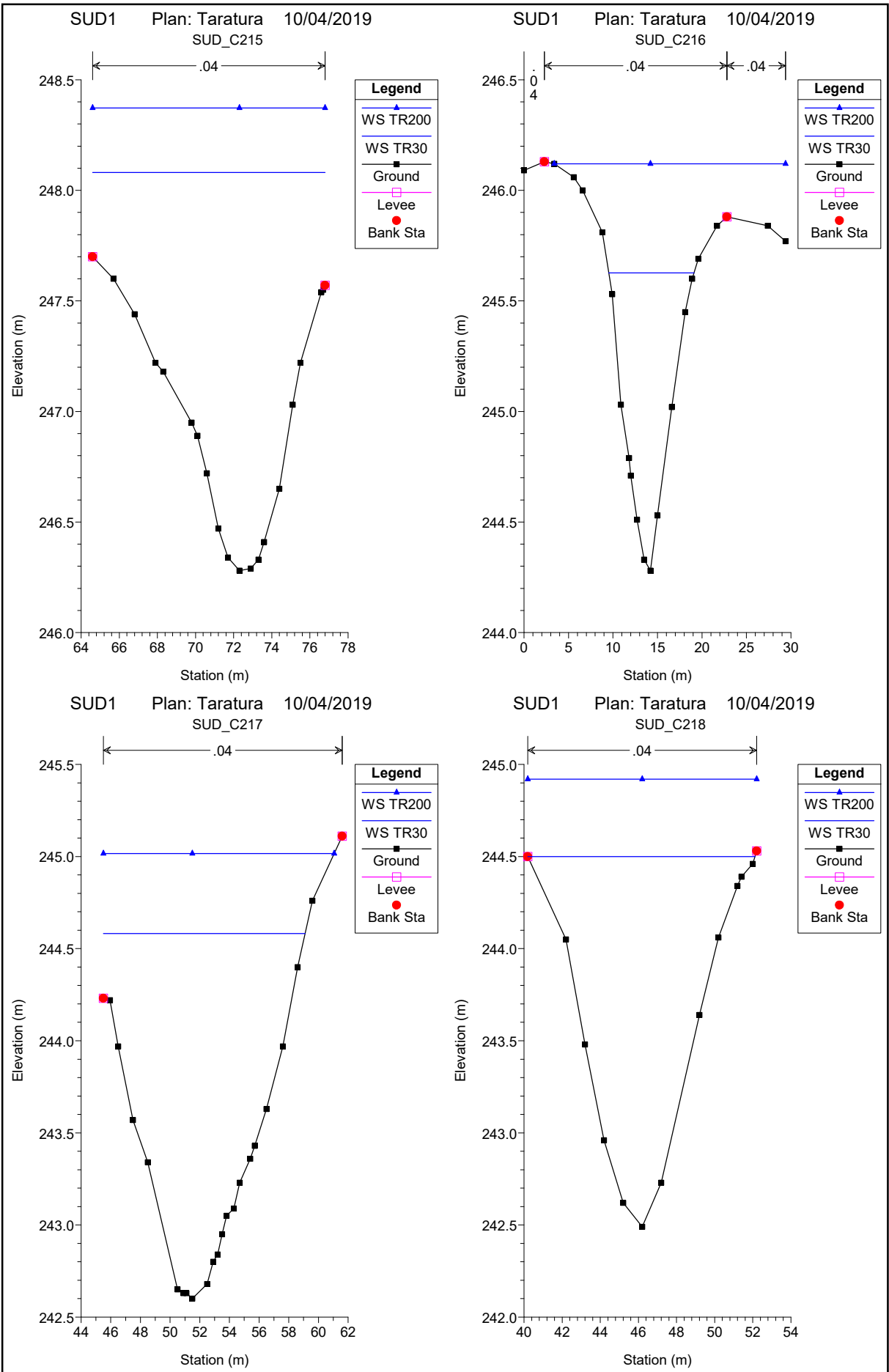


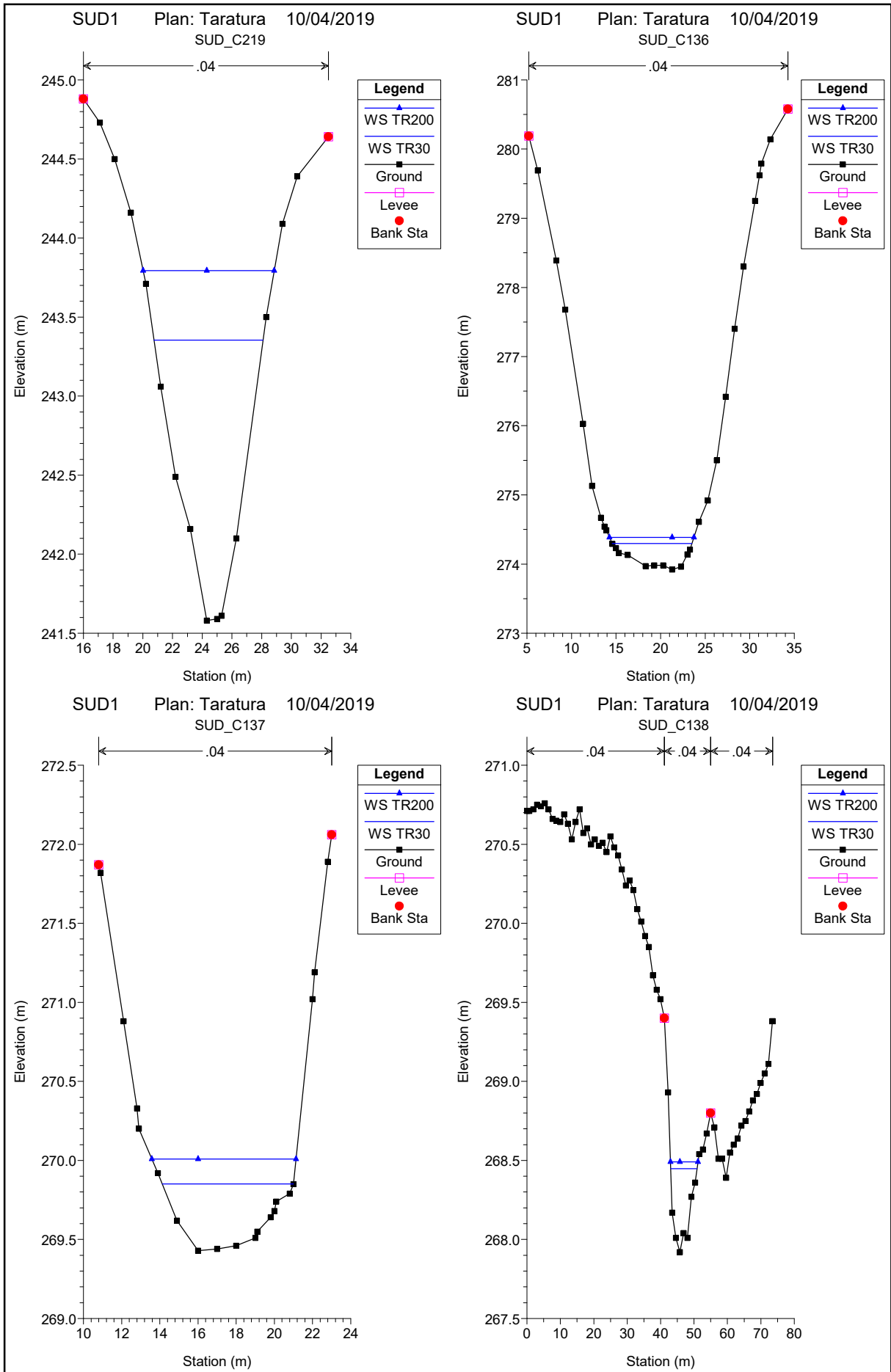


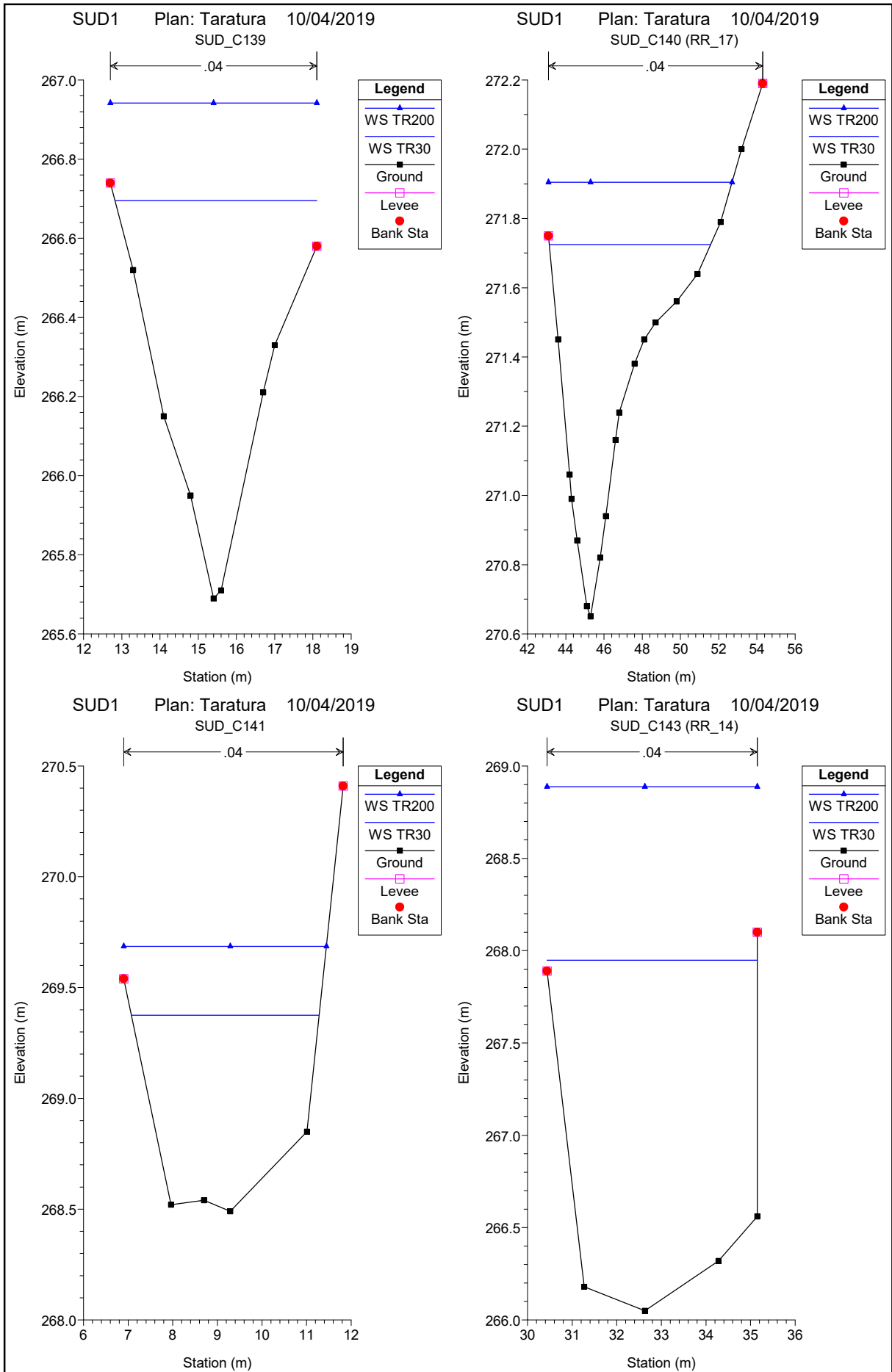




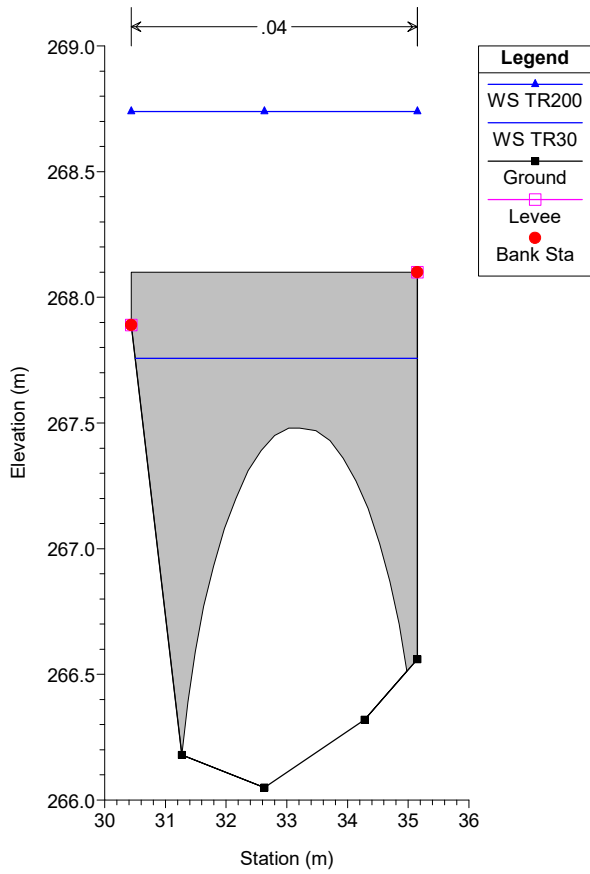




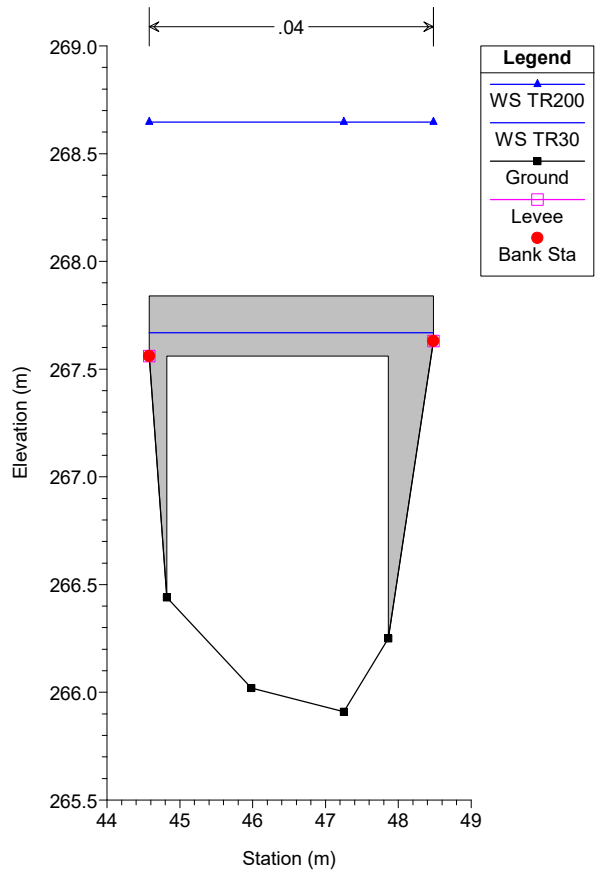




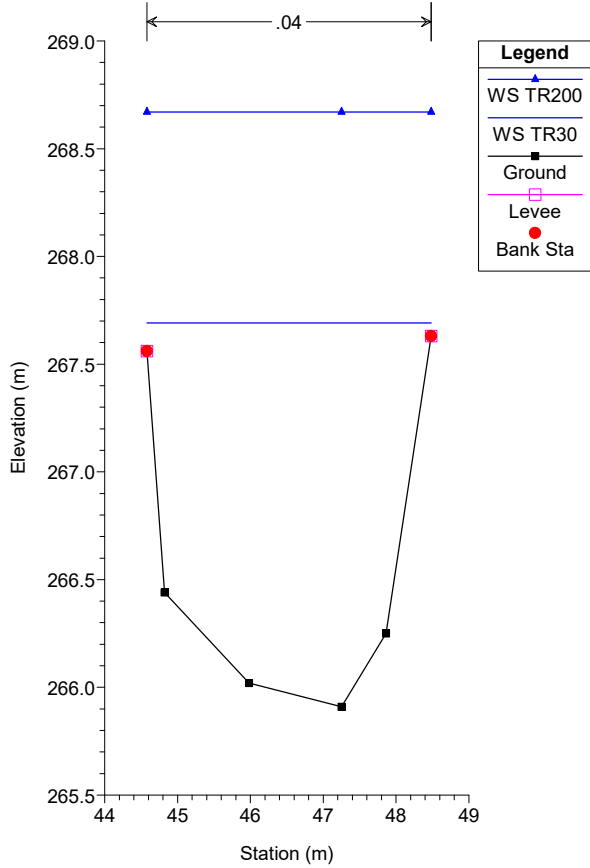
SUD1 Plan: Taratura 10/04/2019



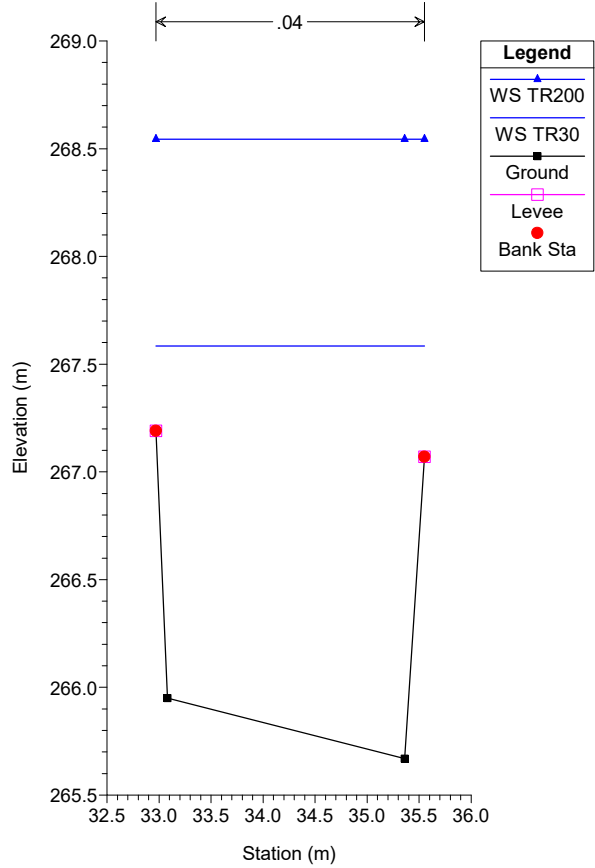
SUD1 Plan: Taratura 10/04/2019



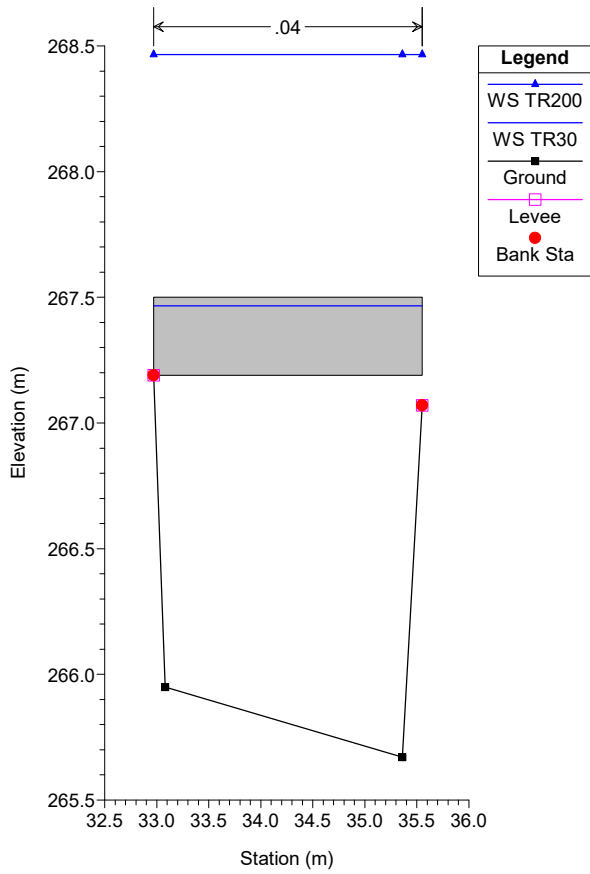
SUD1 Plan: Taratura 10/04/2019
SUD_C144 (RR_13)



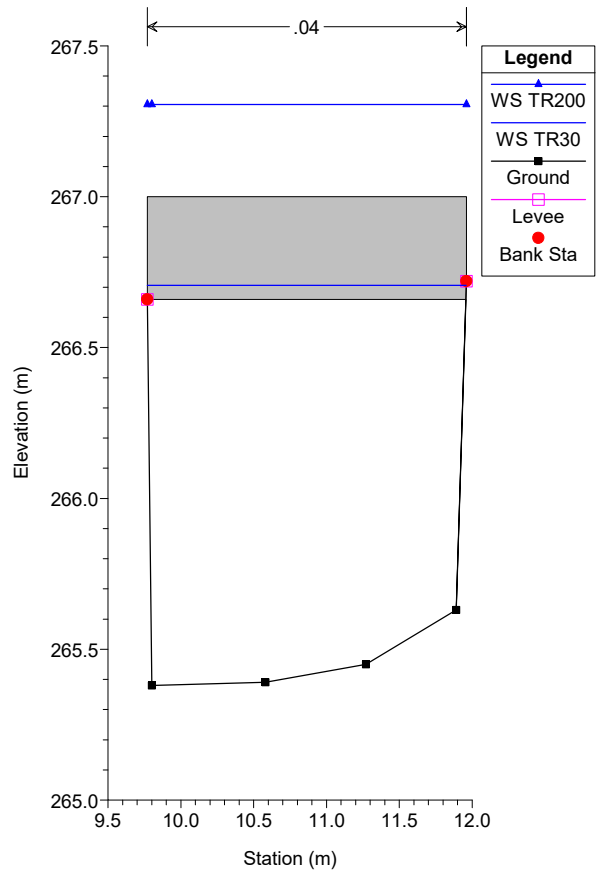
SUD1 Plan: Taratura 10/04/2019
SUD_C145 (RR_12)



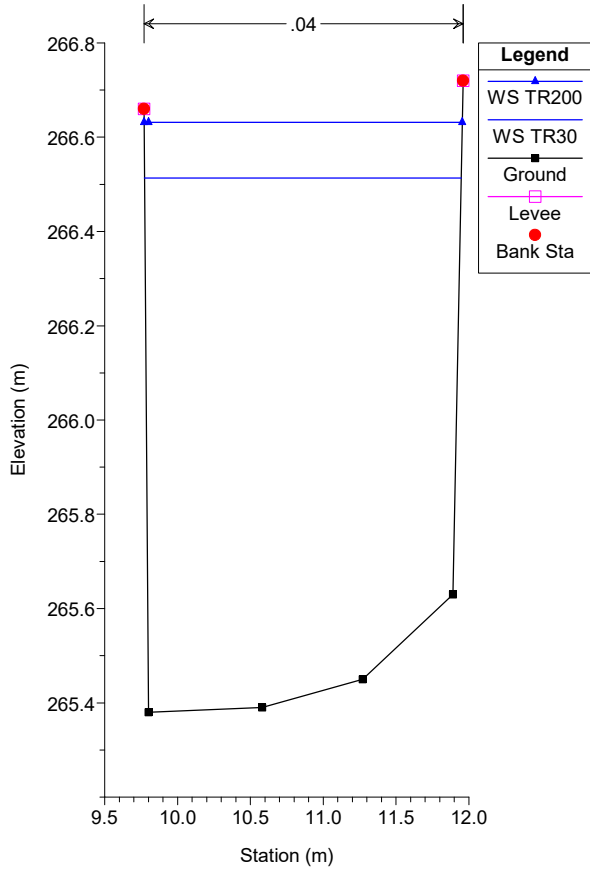
SUD1 Plan: Taratura 10/04/2019



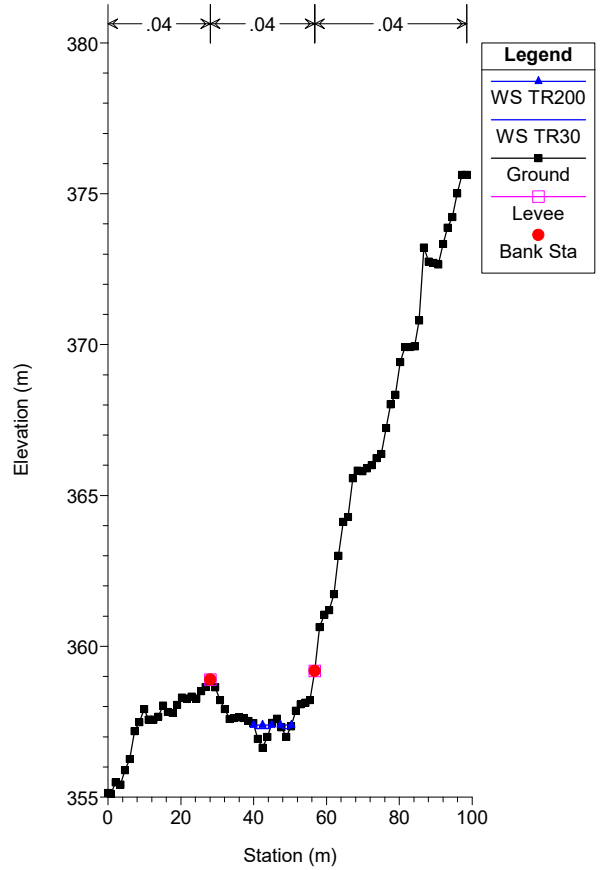
SUD1 Plan: Taratura 10/04/2019

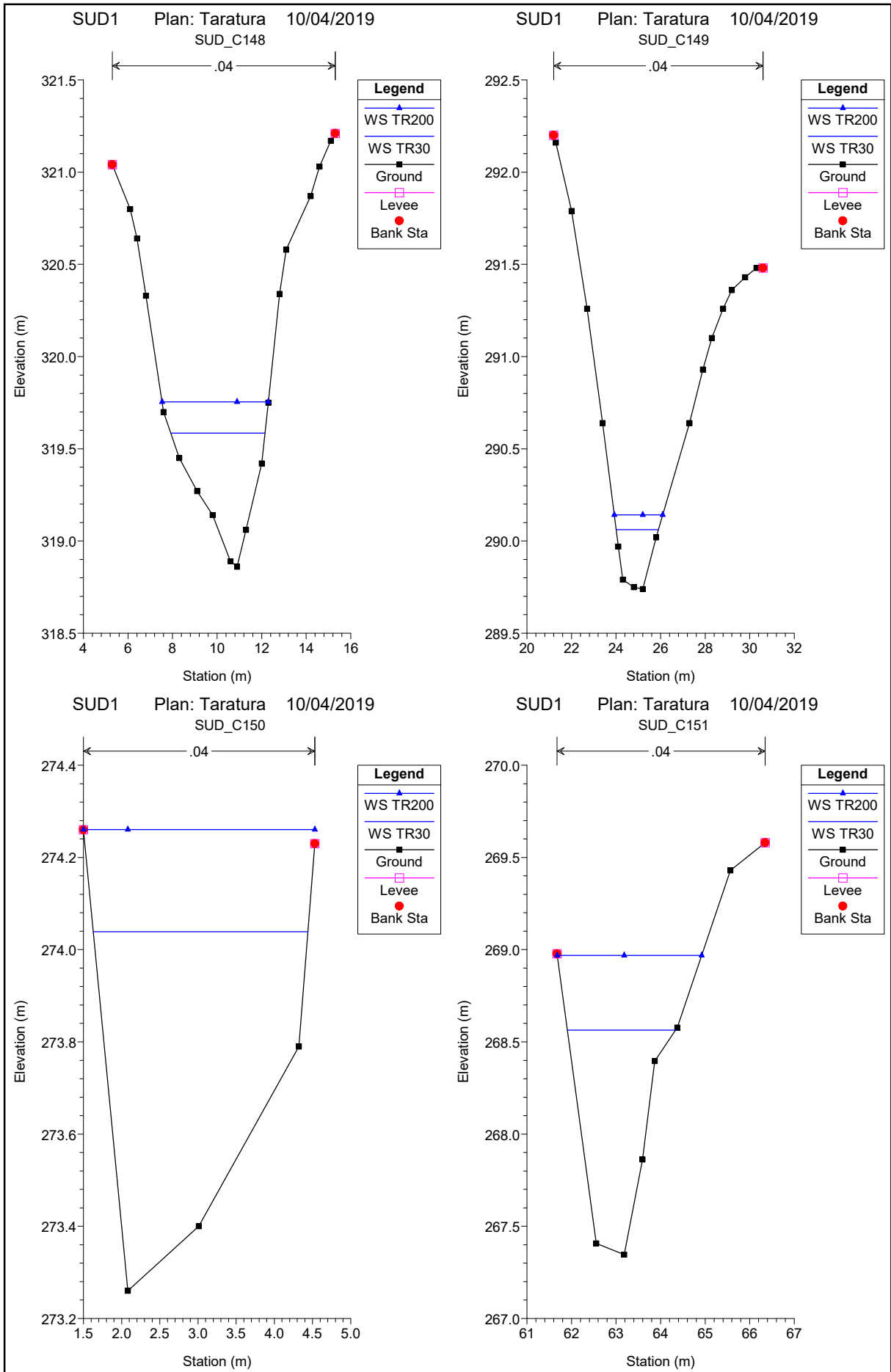


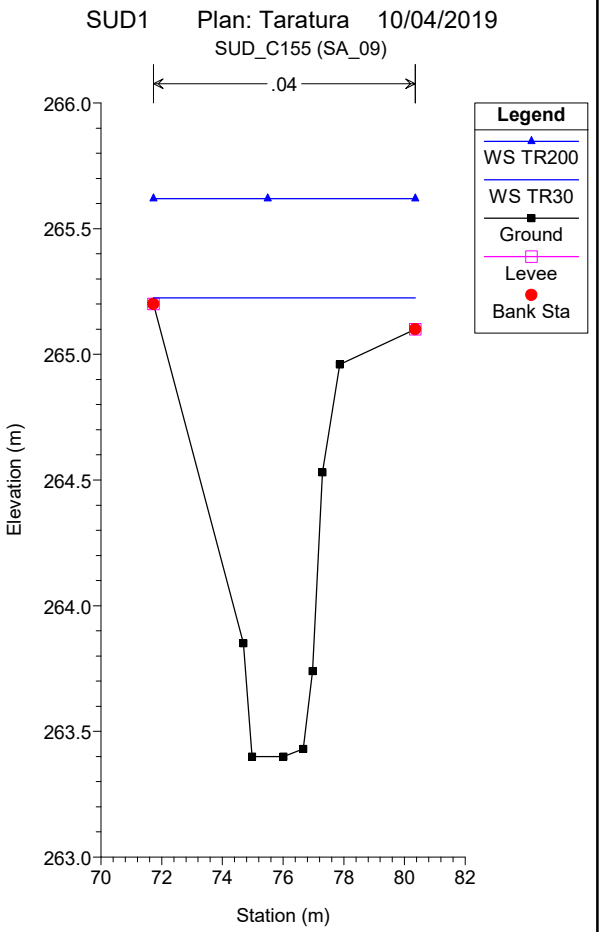
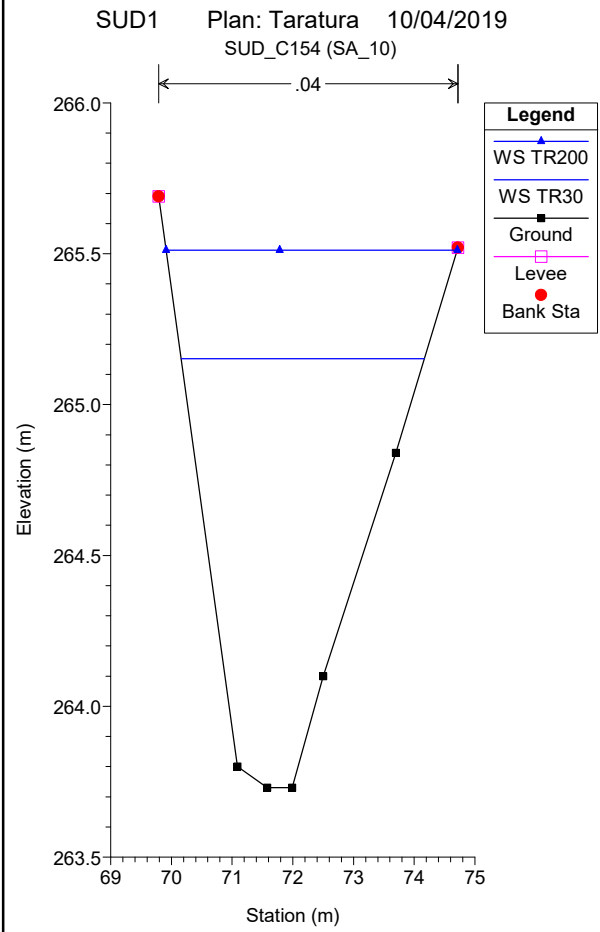
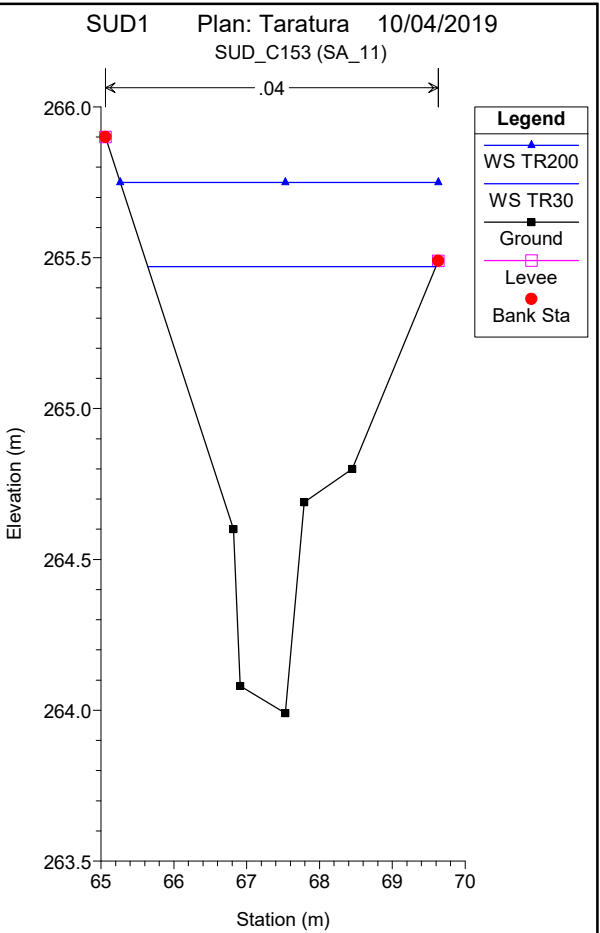
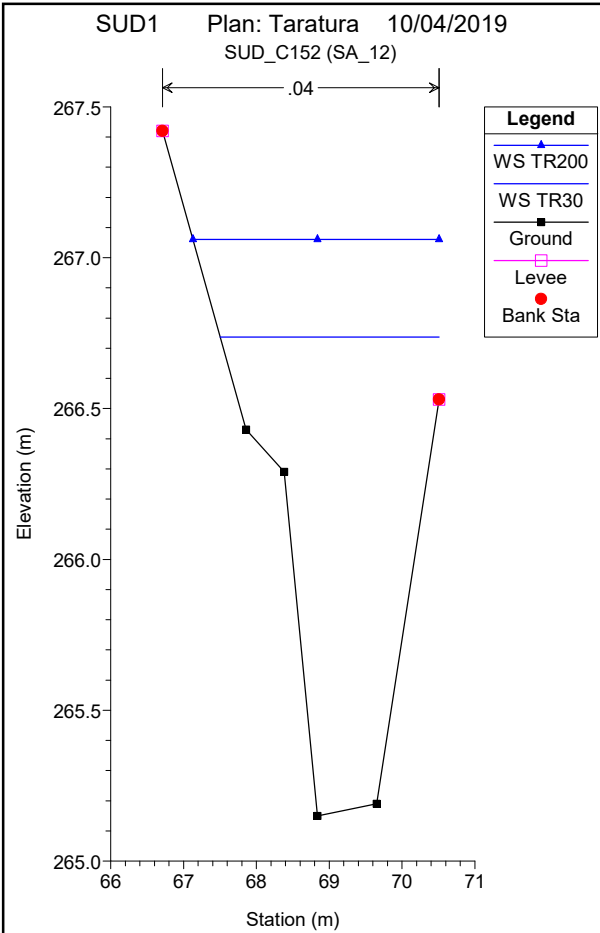
SUD1 Plan: Taratura 10/04/2019
SUD_C146 (RR_11)



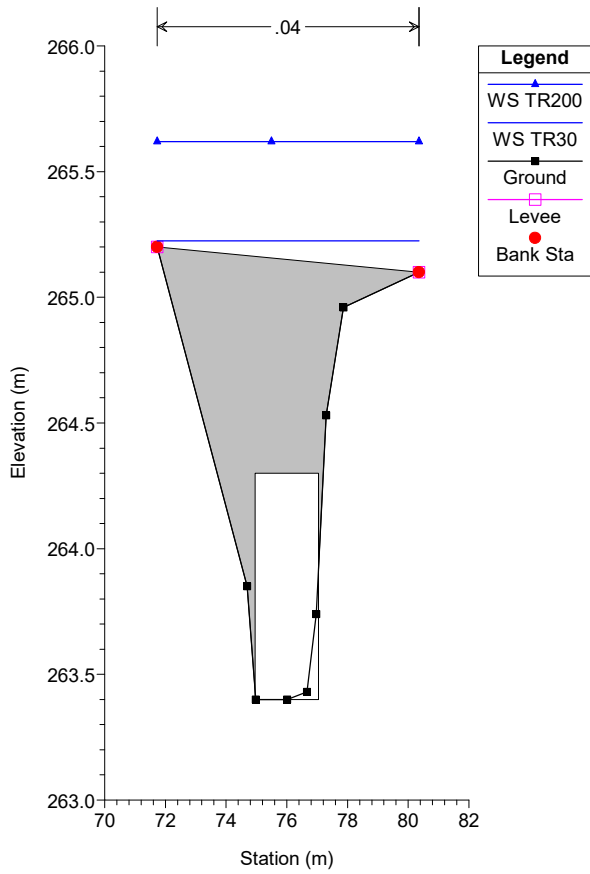
SUD1 Plan: Taratura 10/04/2019
SUD_C147



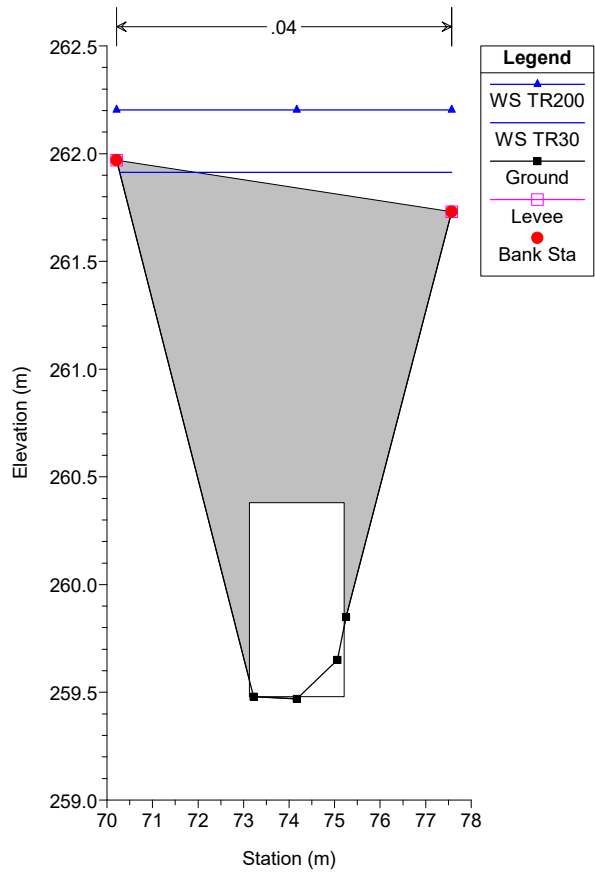




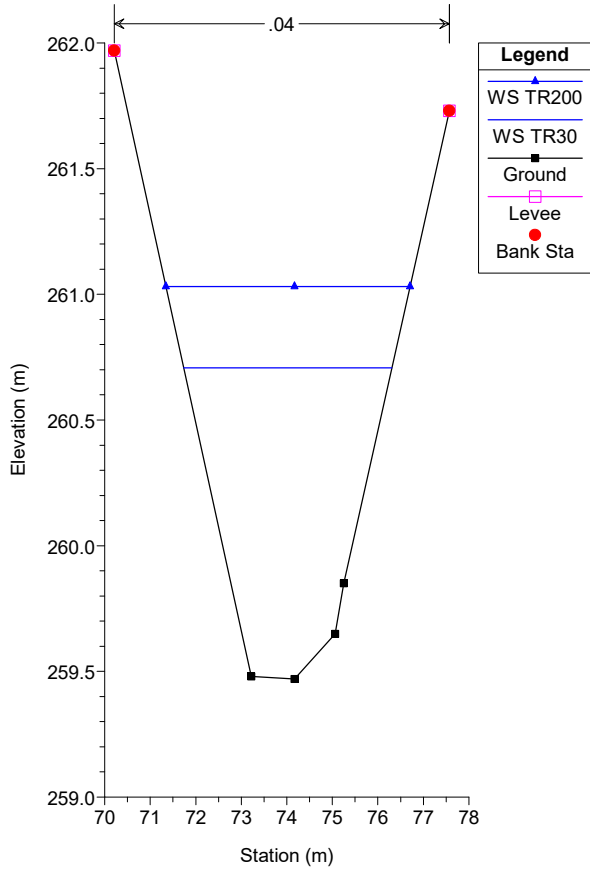
SUD1 Plan: Taratura 10/04/2019



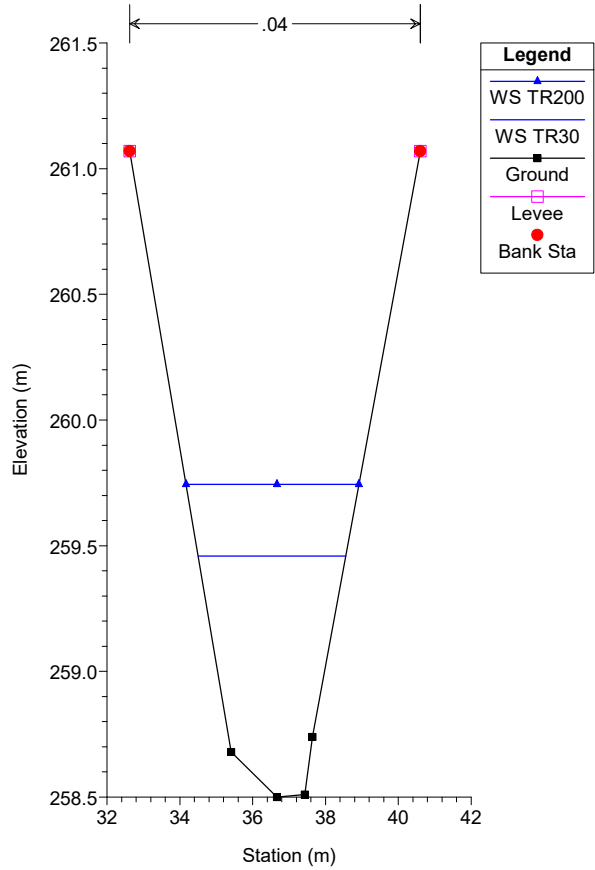
SUD1 Plan: Taratura 10/04/2019

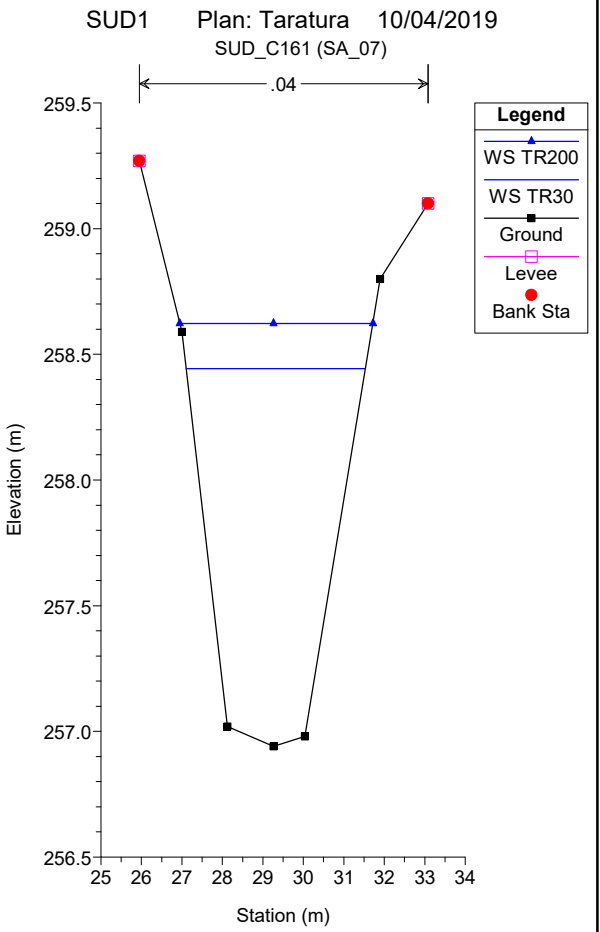
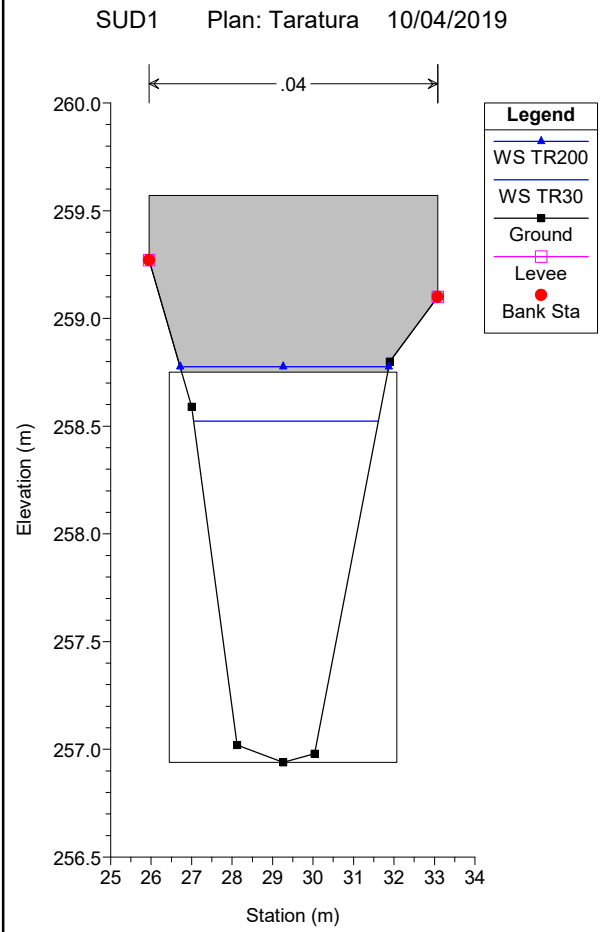
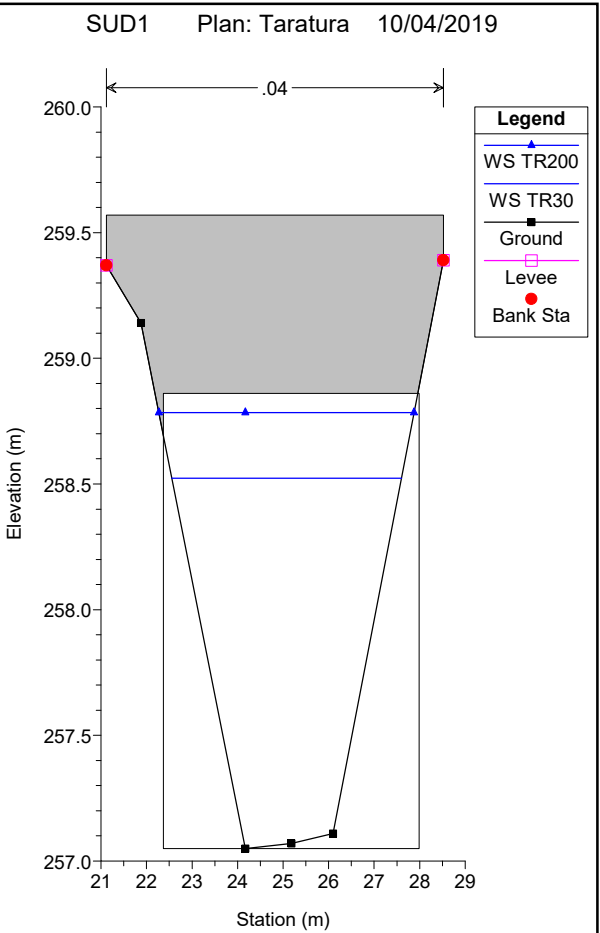
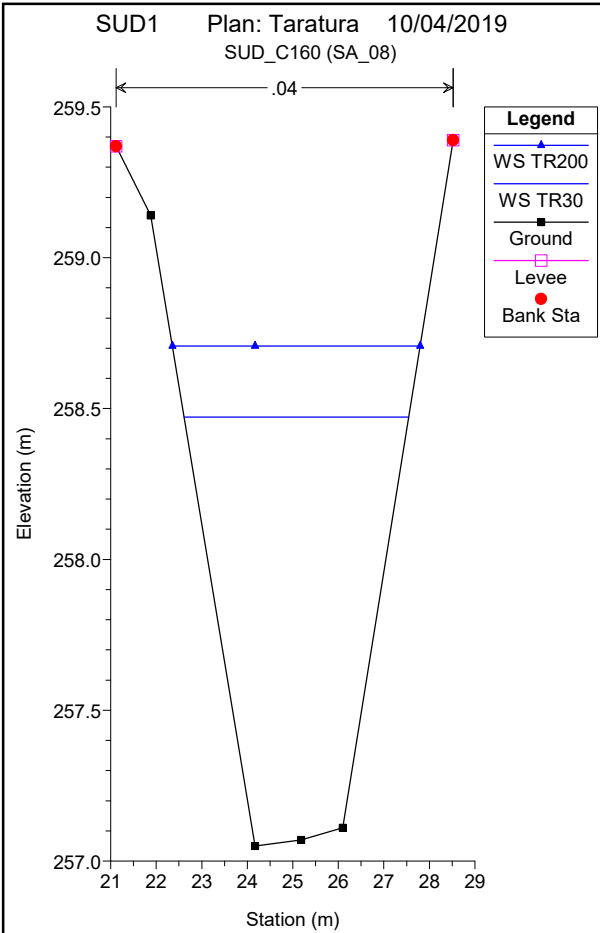


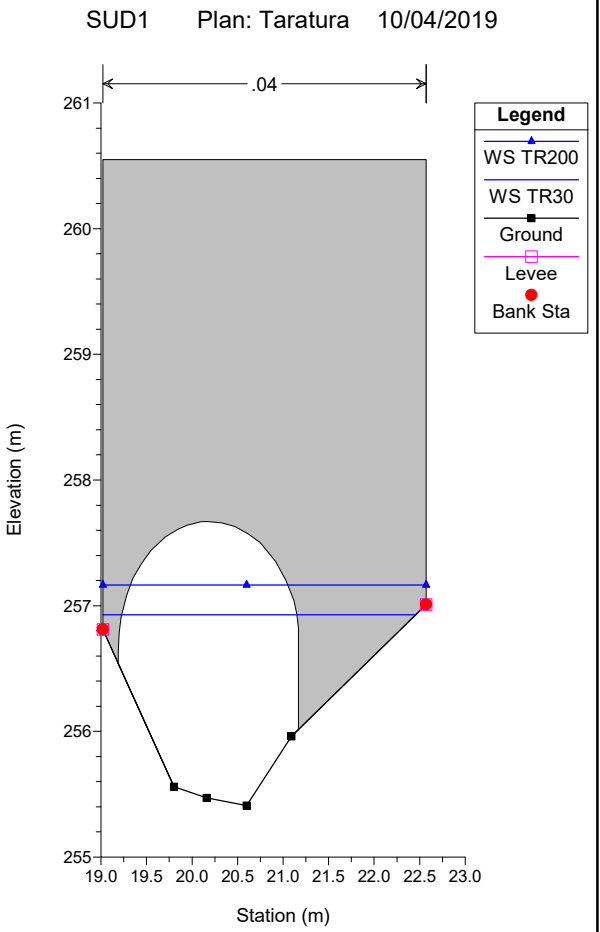
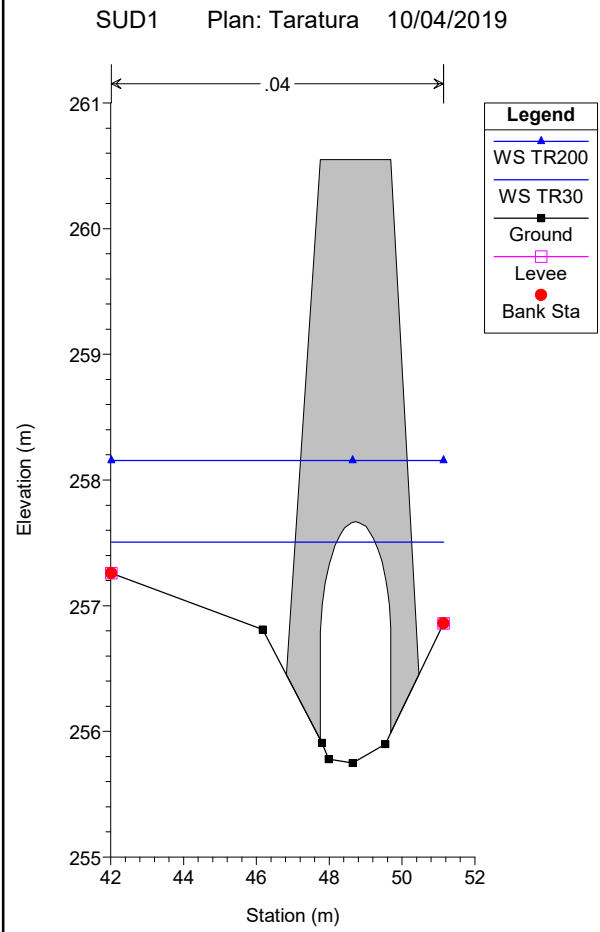
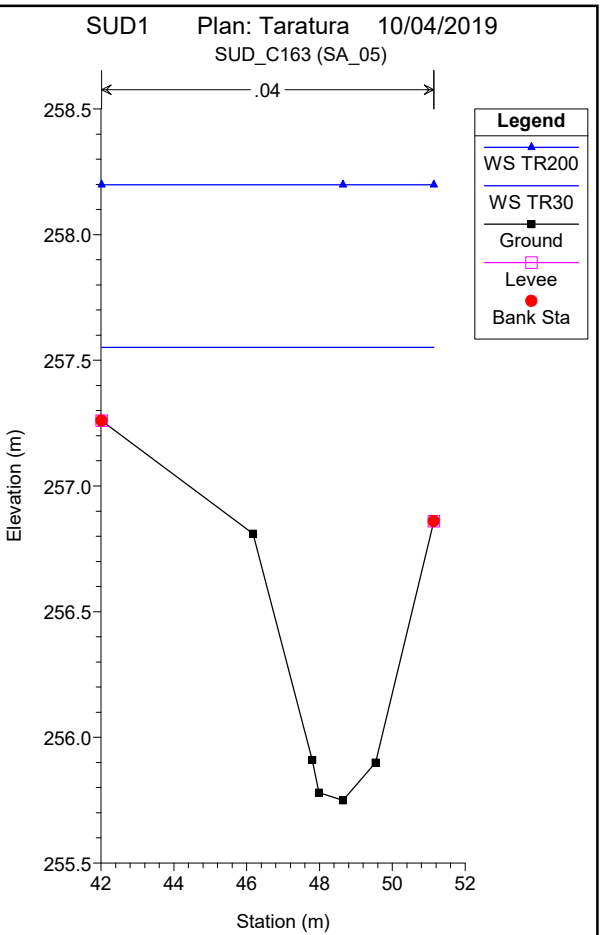
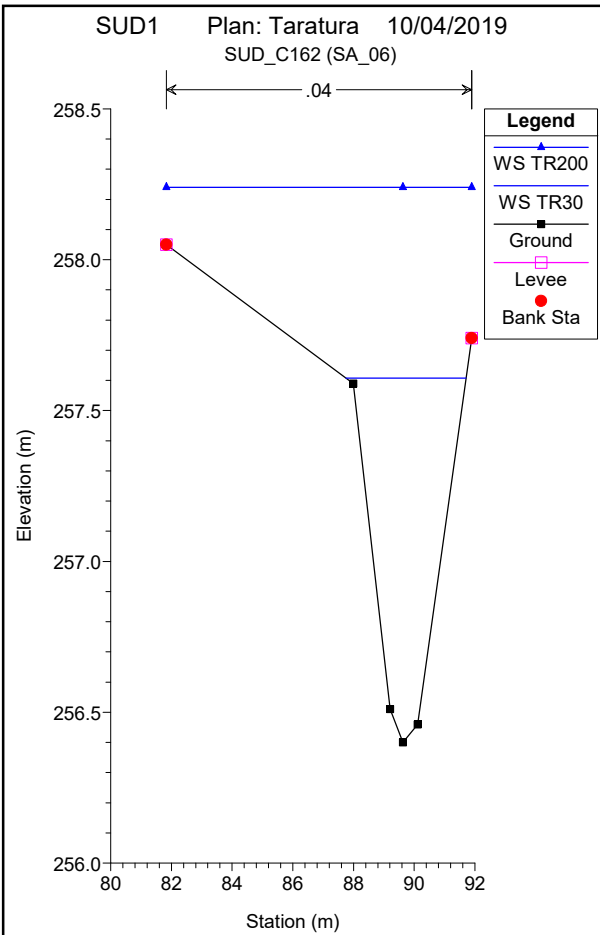
SUD1 Plan: Taratura 10/04/2019
SUD_C158 (SA_08C)

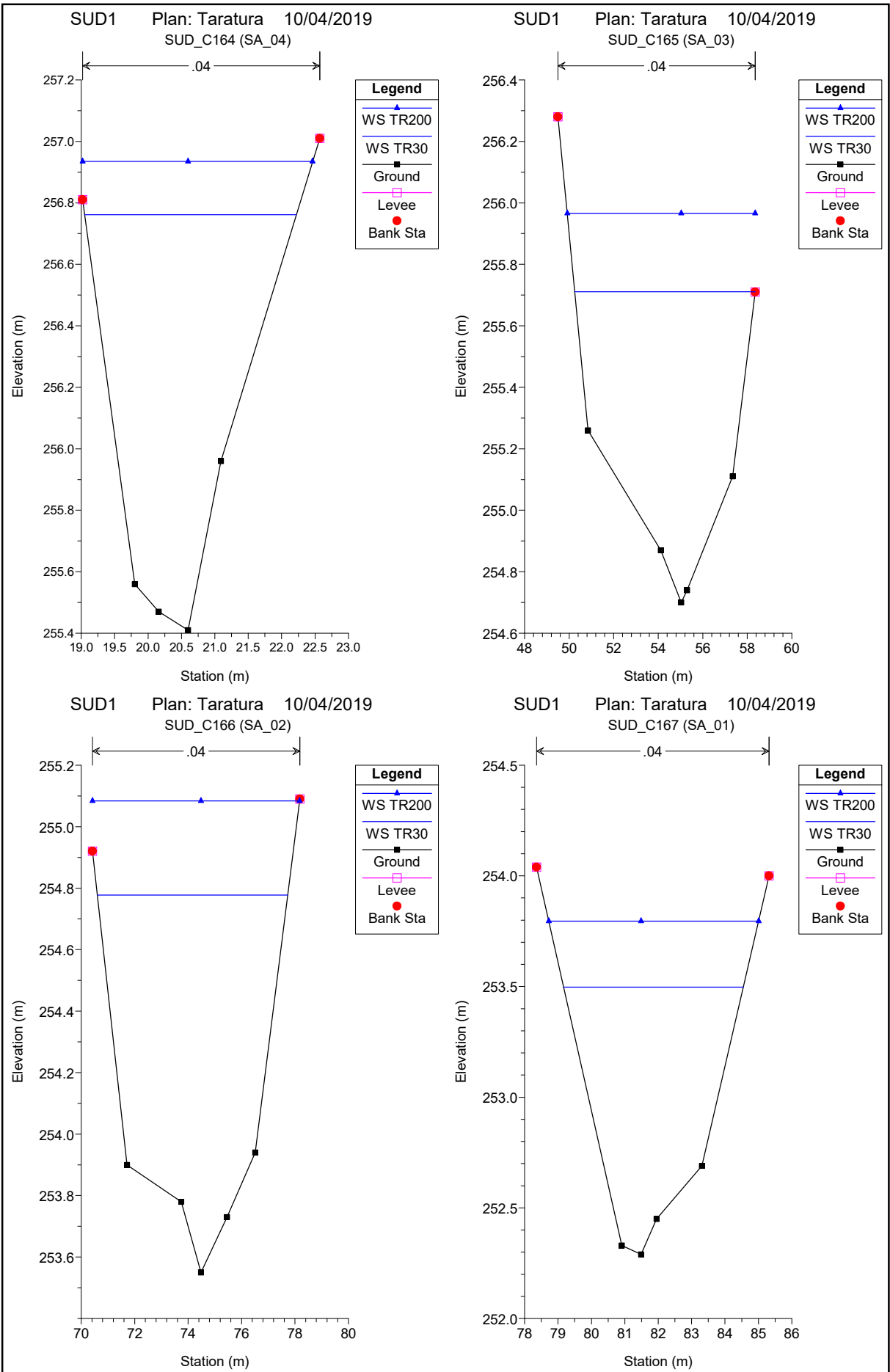


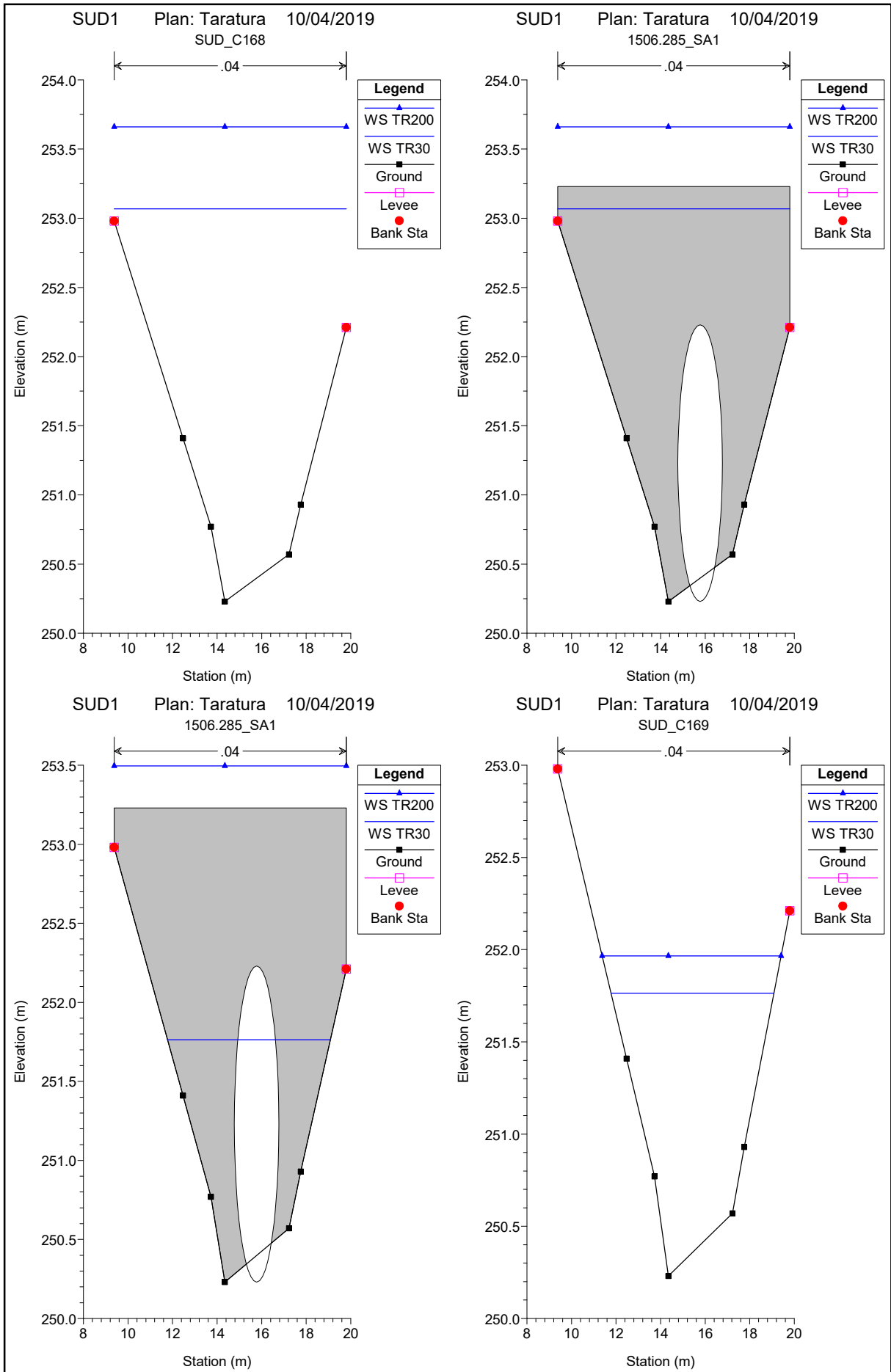
SUD1 Plan: Taratura 10/04/2019
SUD_C159 (SA_08B)

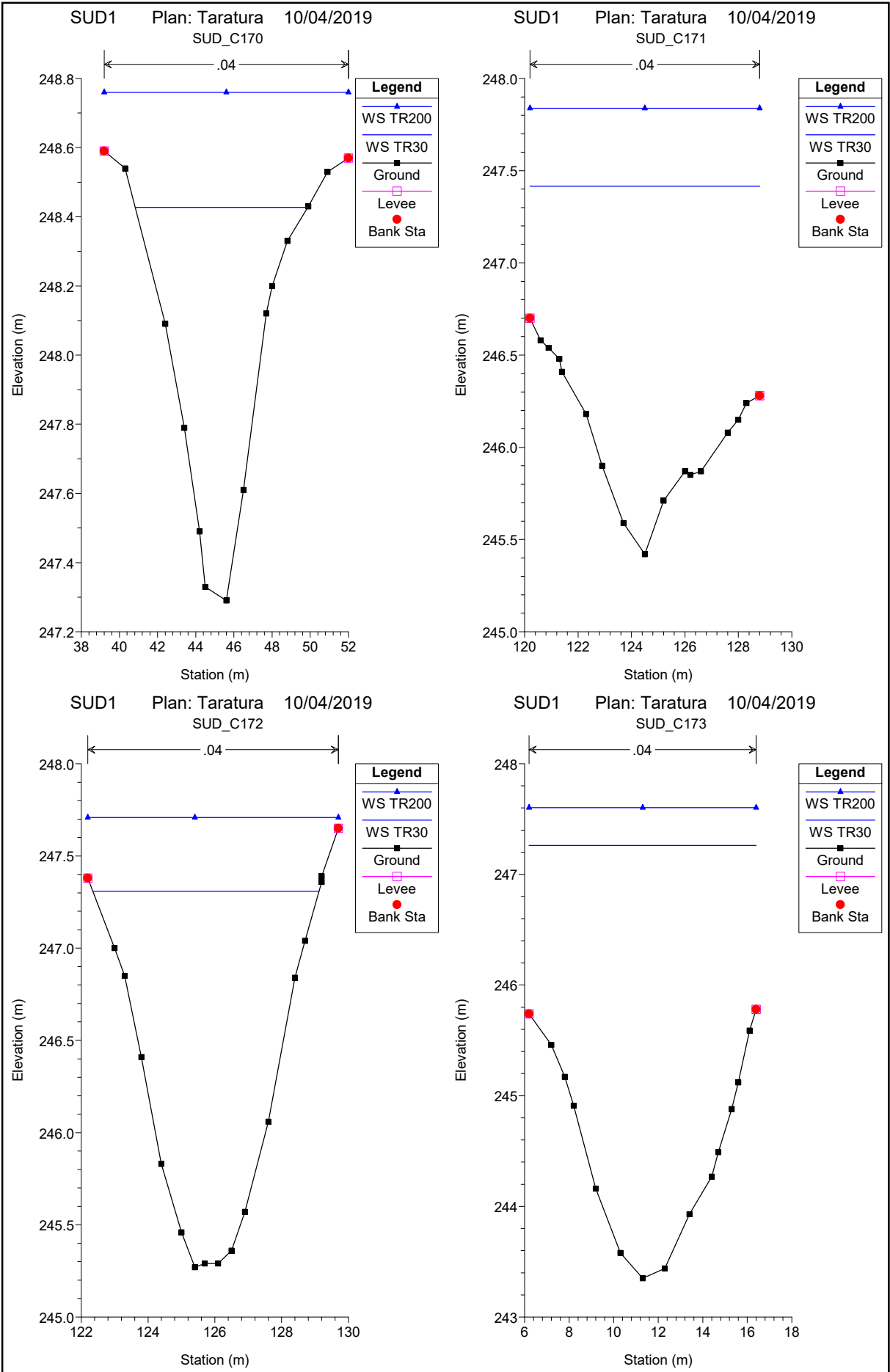


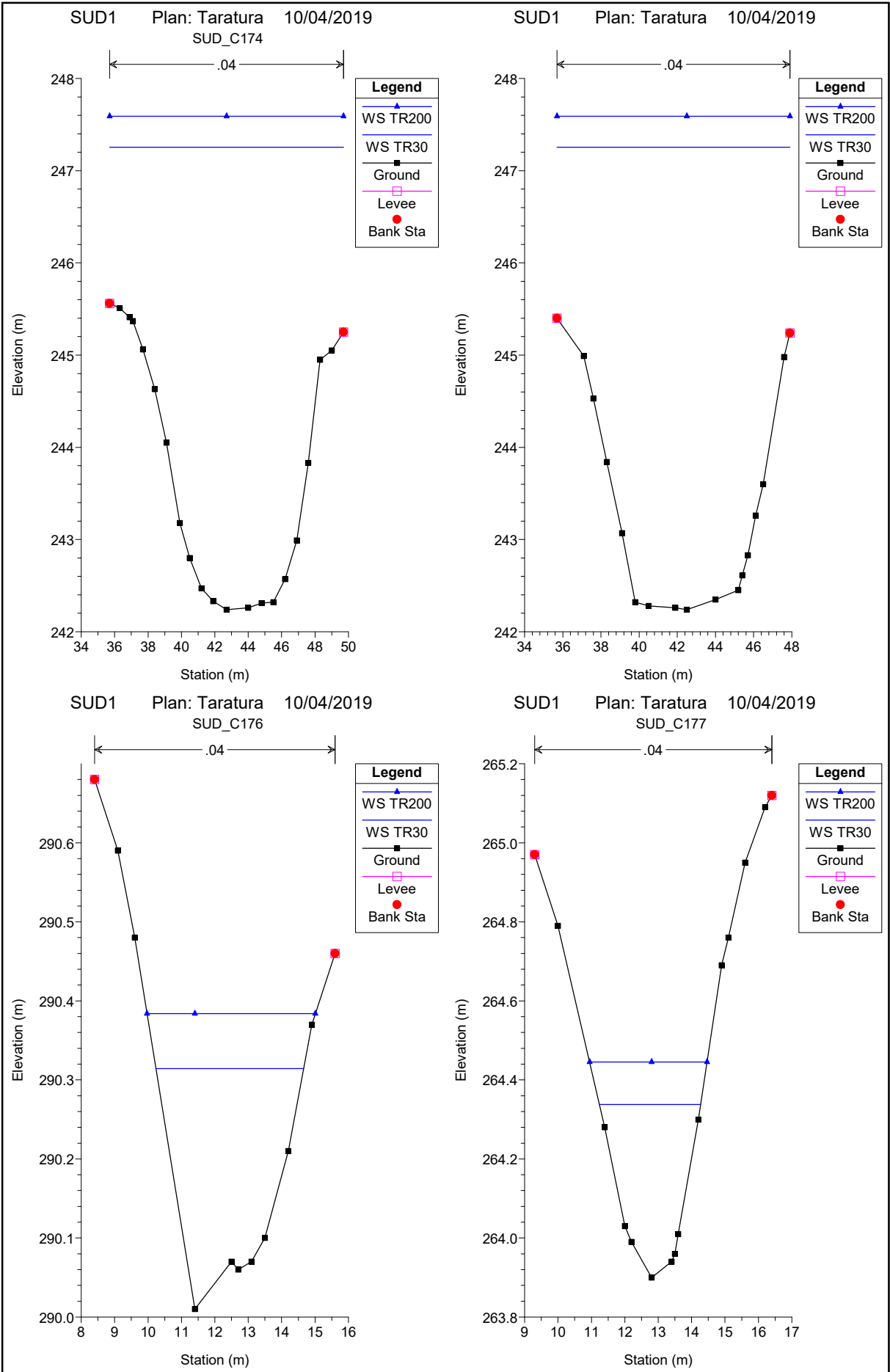


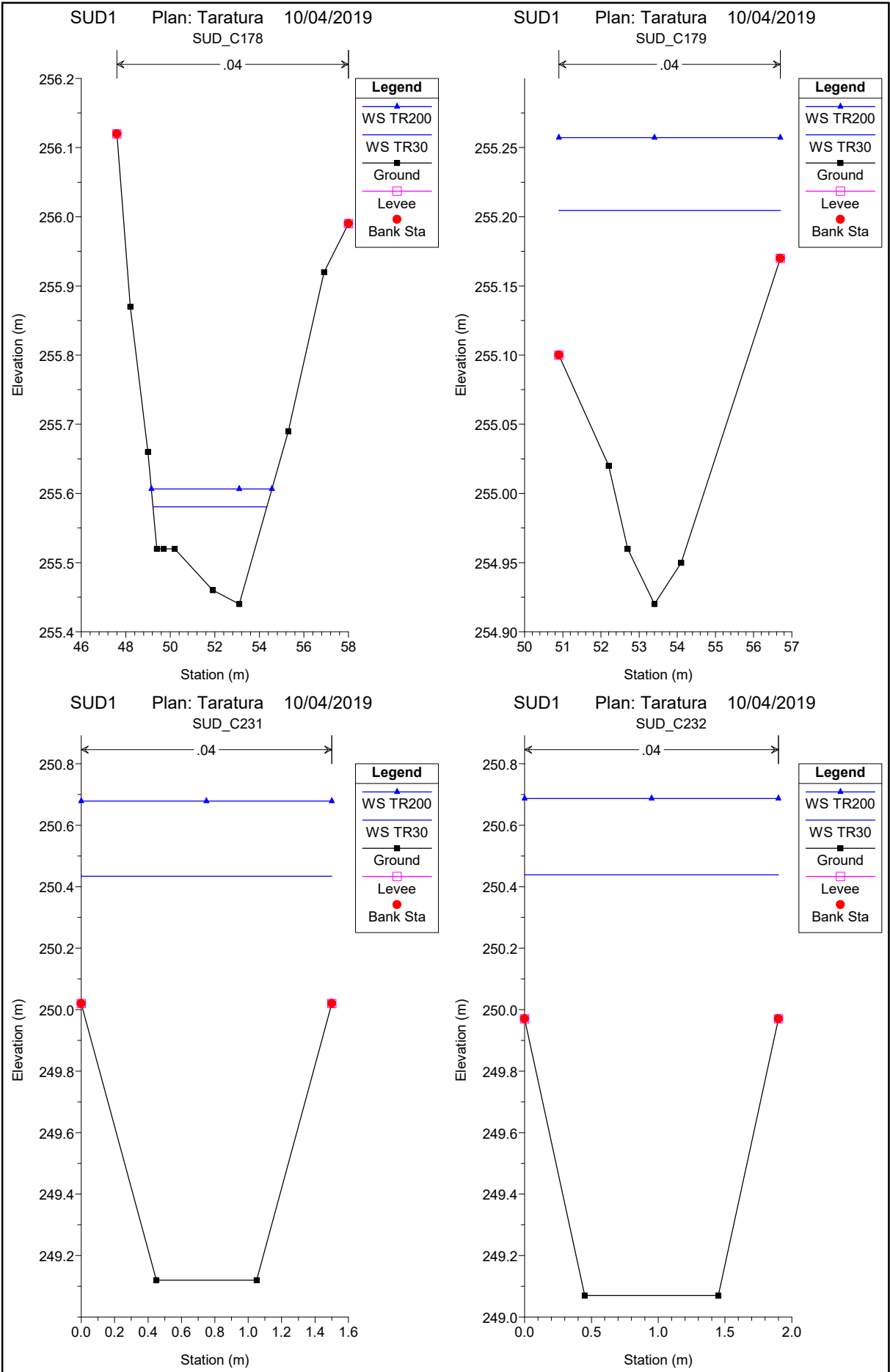




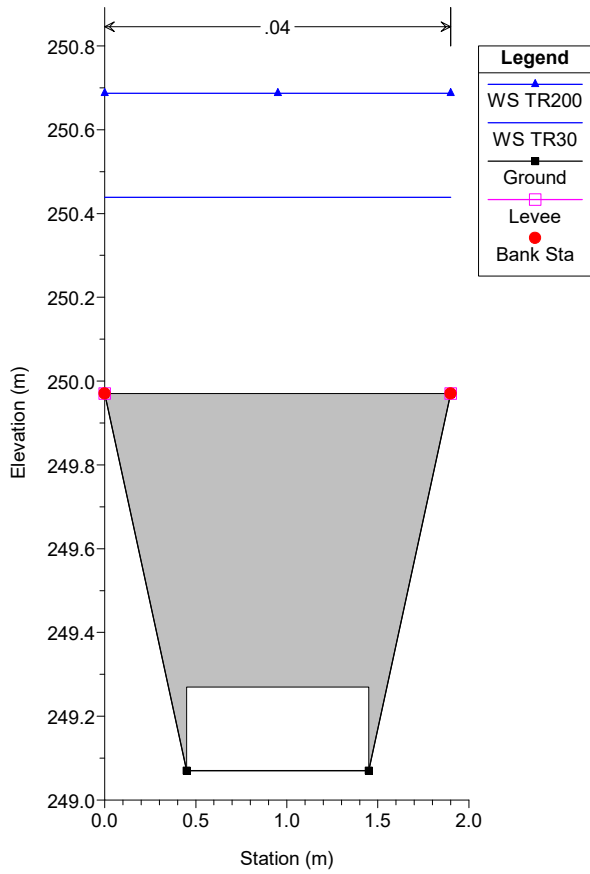




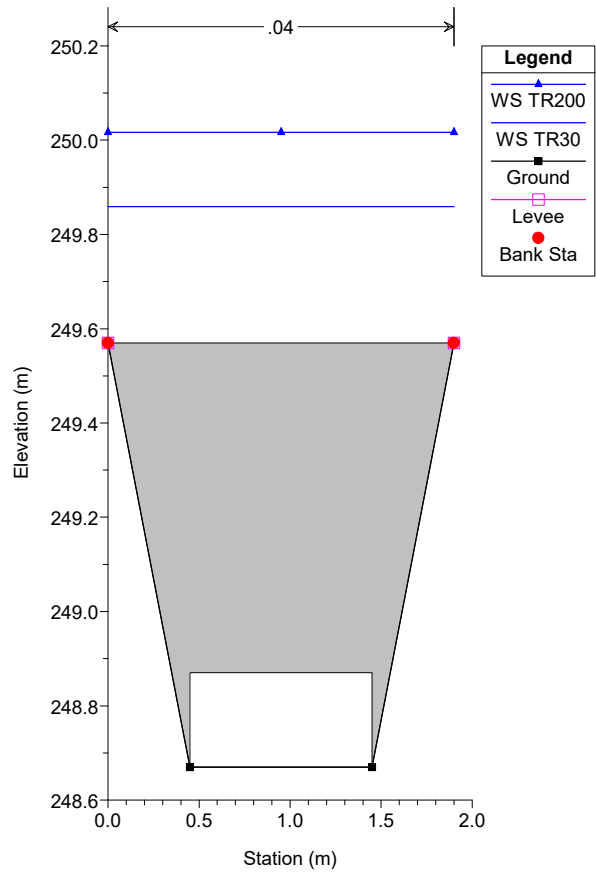




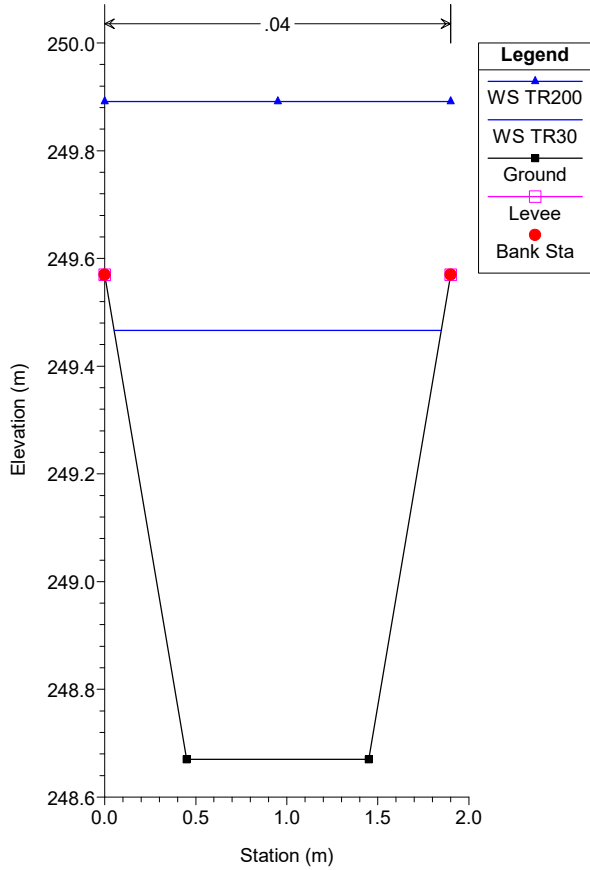
SUD1 Plan: Taratura 10/04/2019



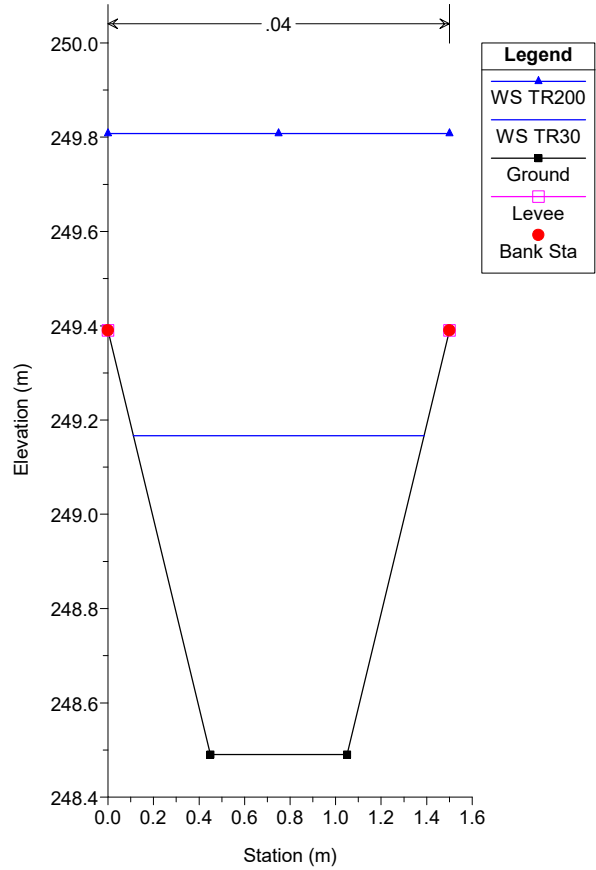
SUD1 Plan: Taratura 10/04/2019

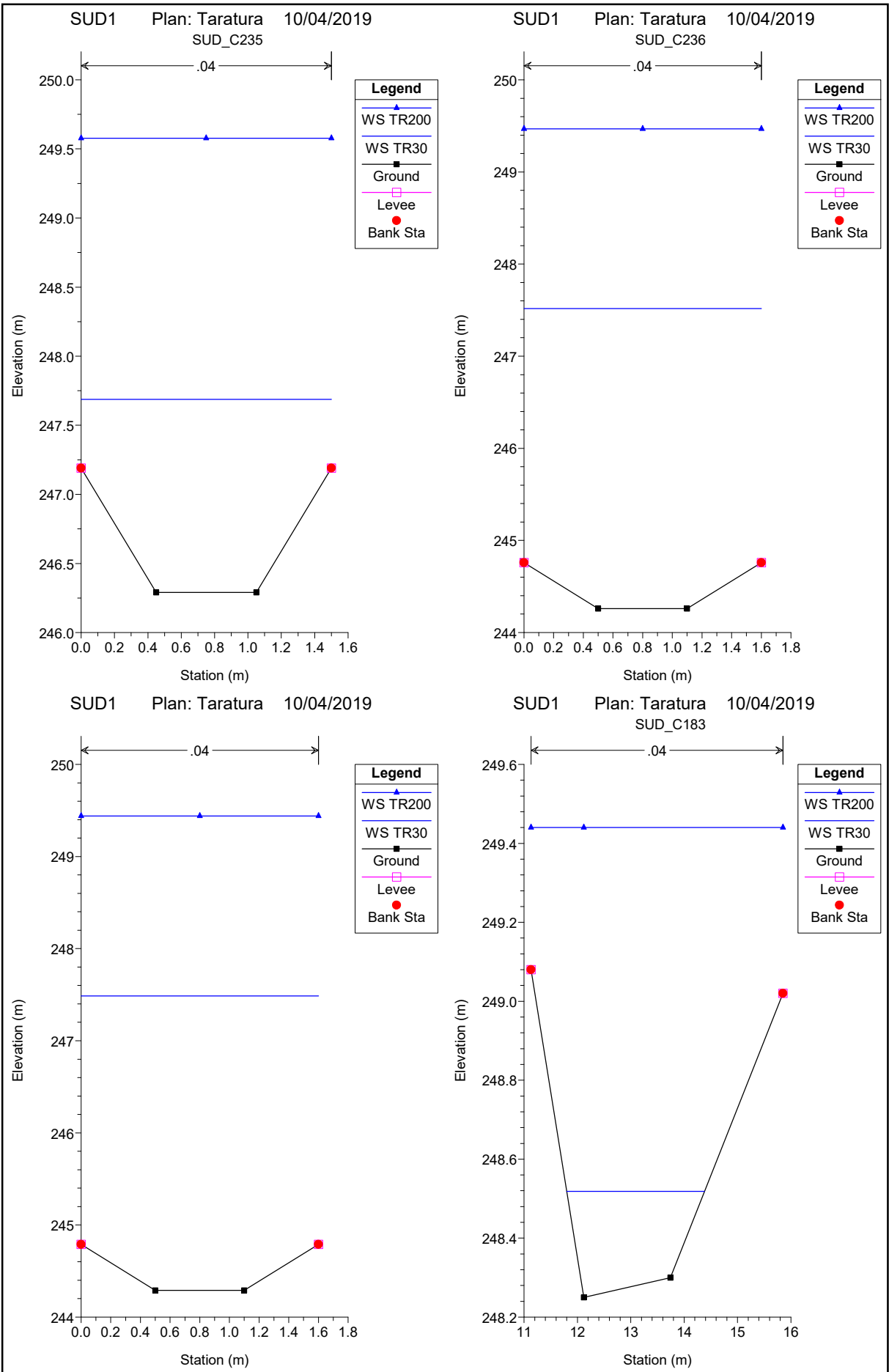


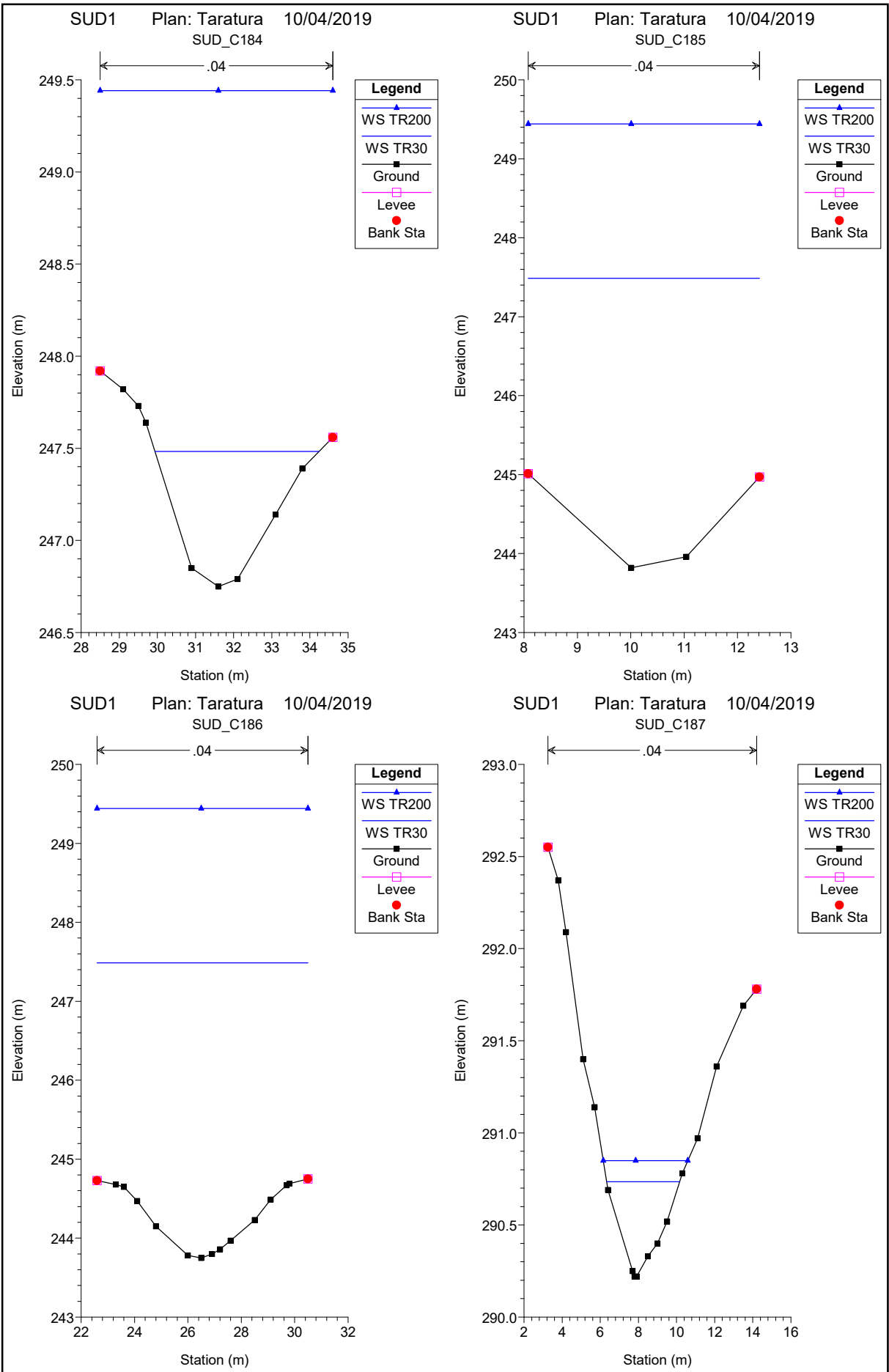
SUD1 Plan: Taratura 10/04/2019
SUD_C233

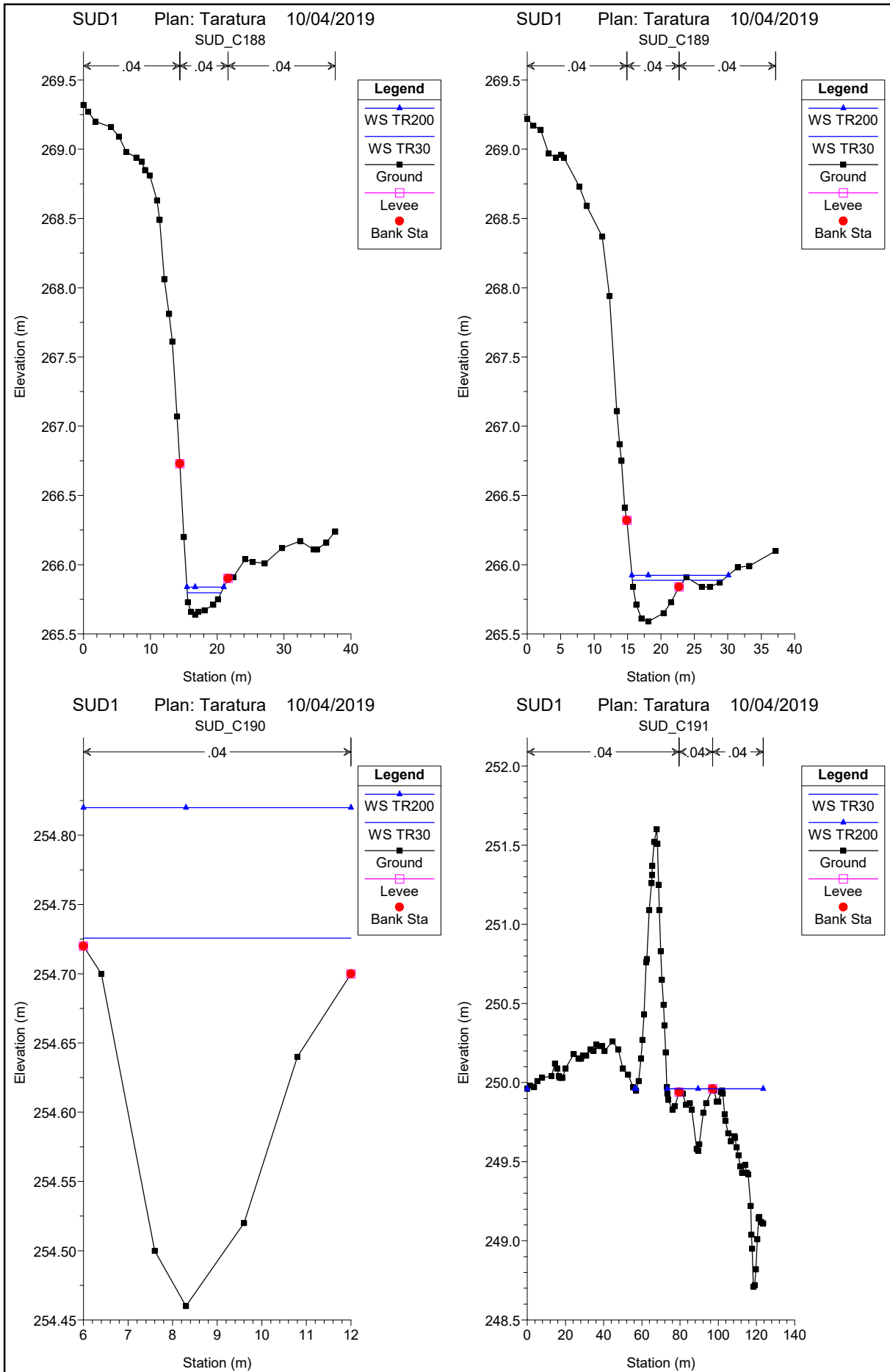


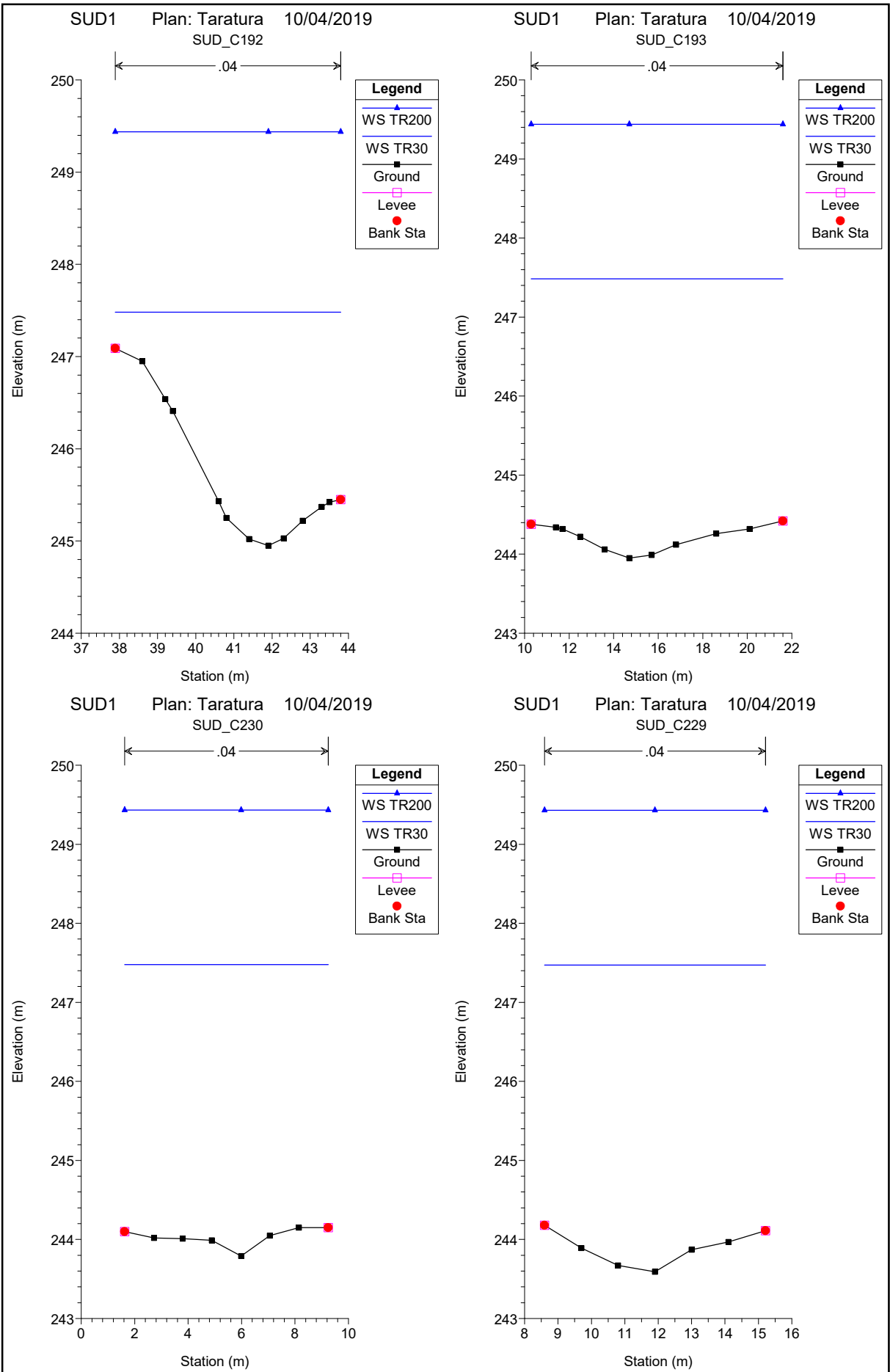
SUD1 Plan: Taratura 10/04/2019
SUD_C234

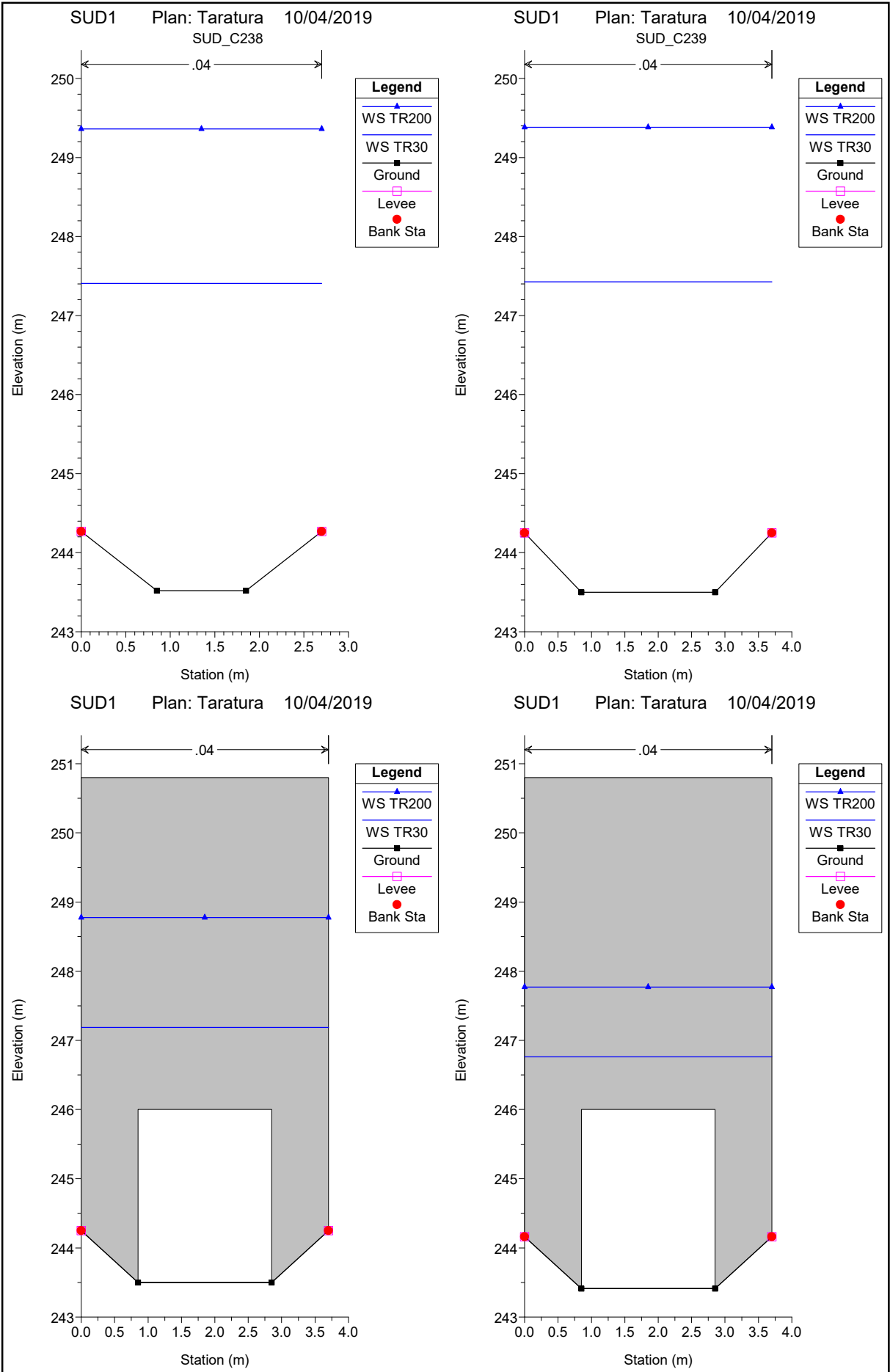


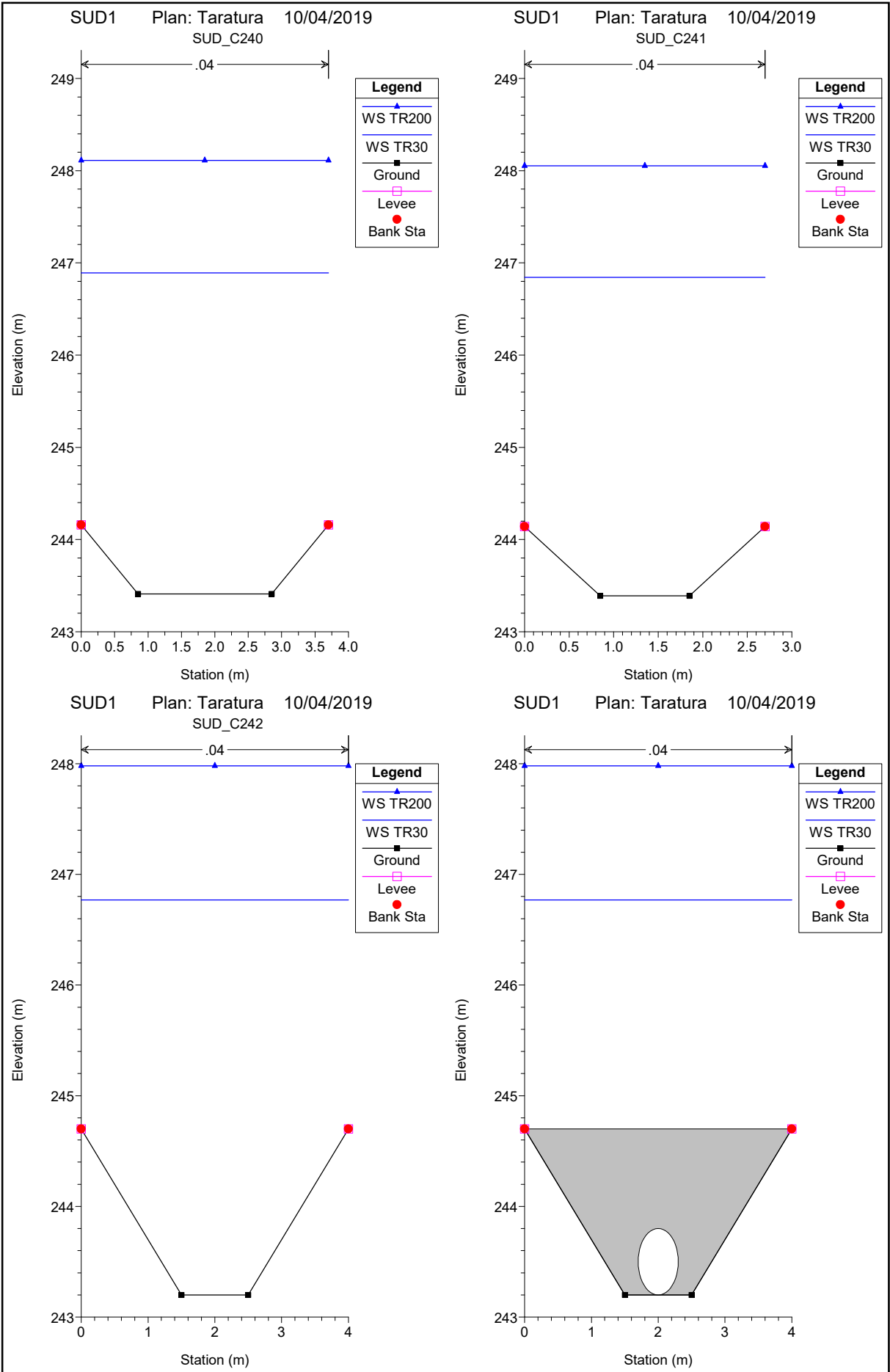




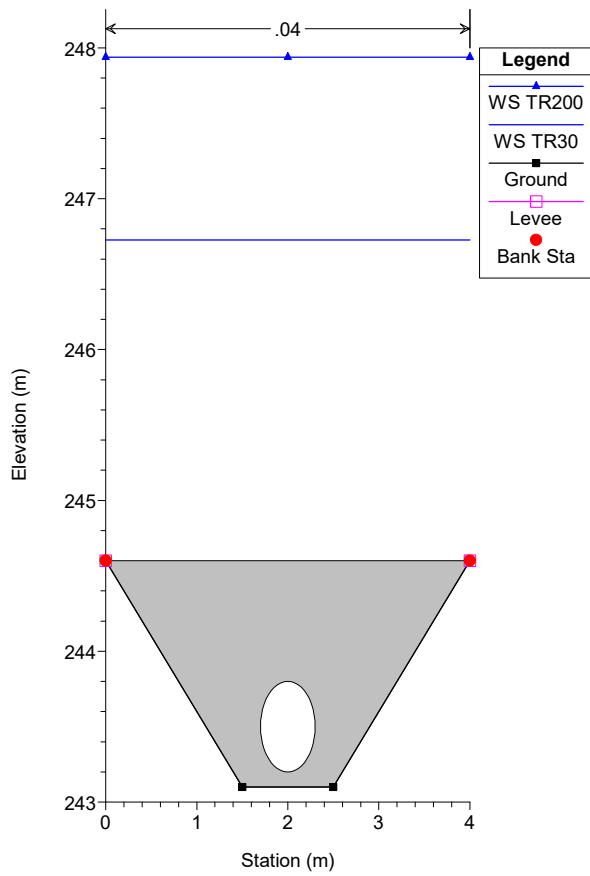




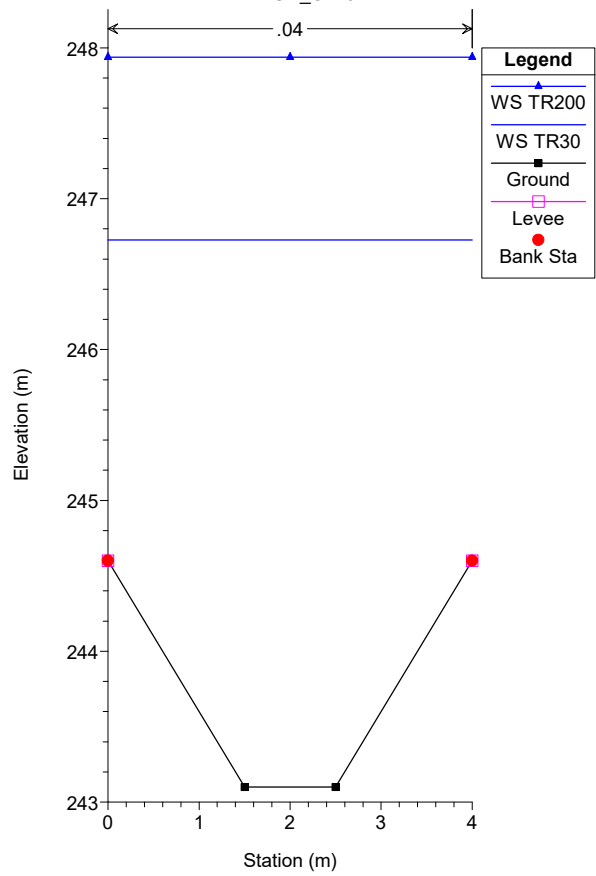




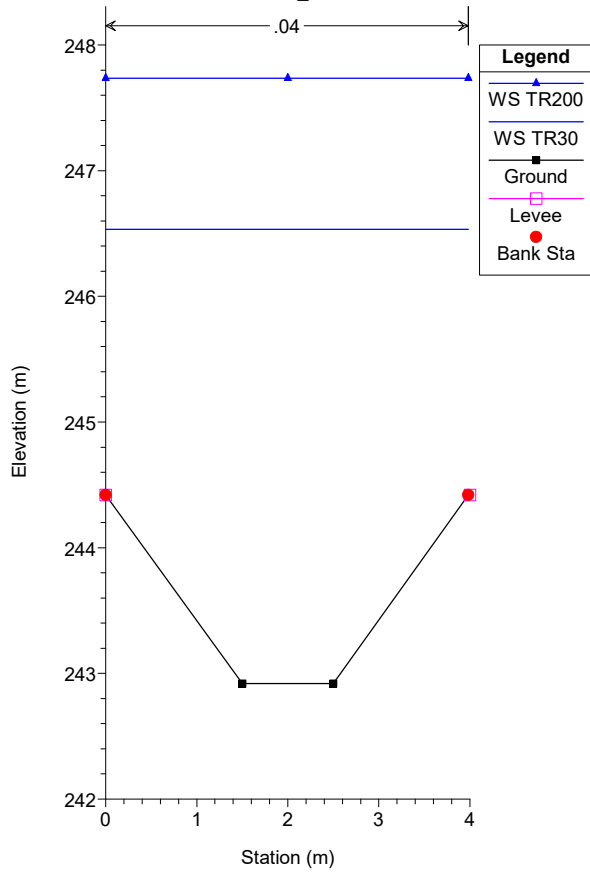
SUD1 Plan: Taratura 10/04/2019



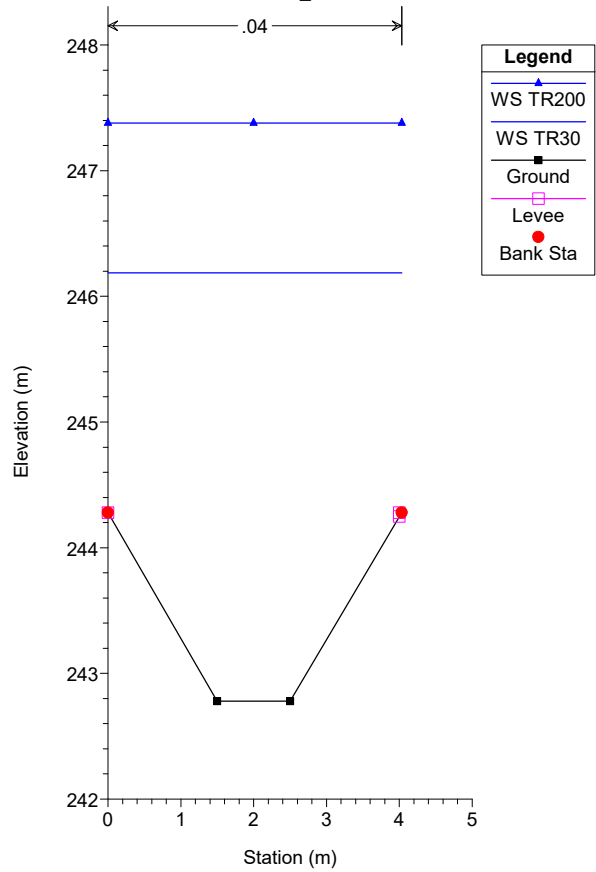
SUD1 Plan: Taratura 10/04/2019
SUD_C243



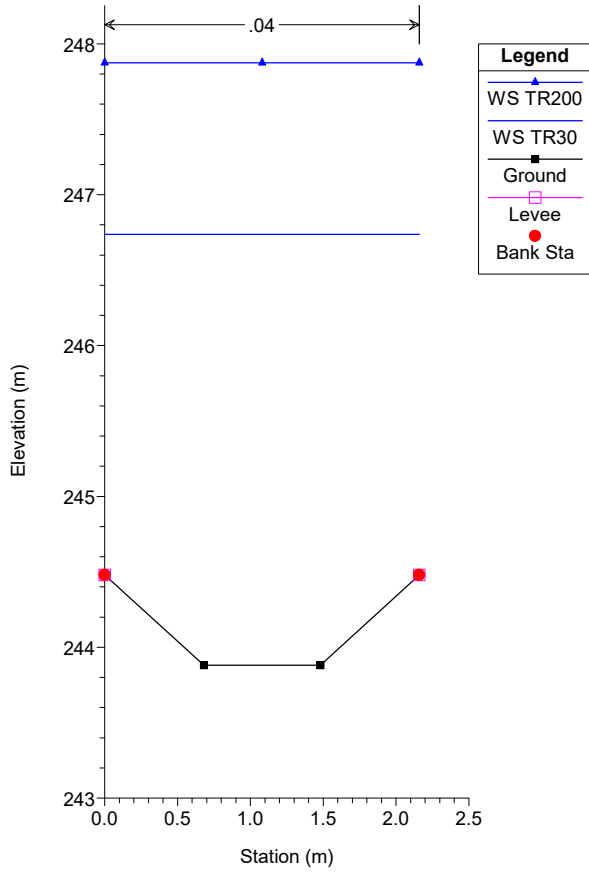
SUD1 Plan: Taratura 10/04/2019
SUD_C244



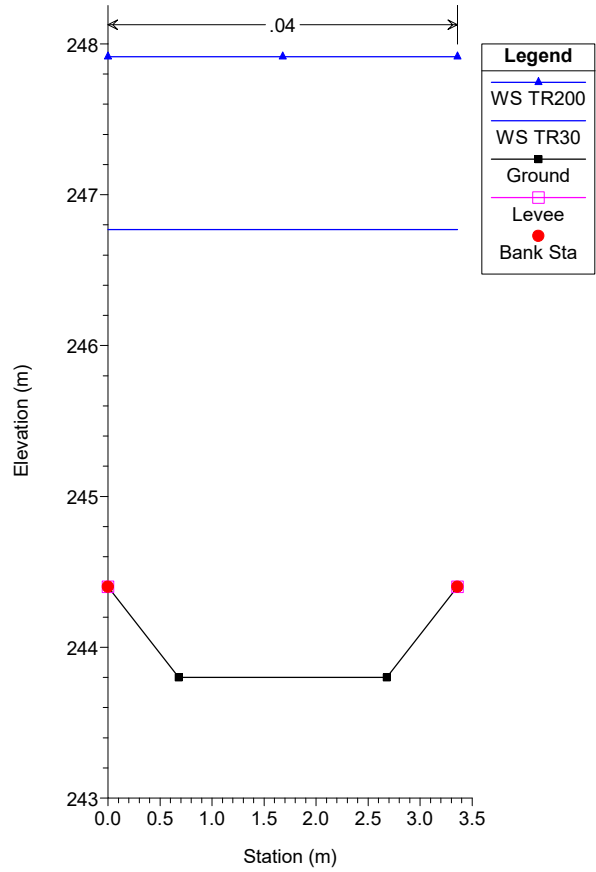
SUD1 Plan: Taratura 10/04/2019
SUD_C245



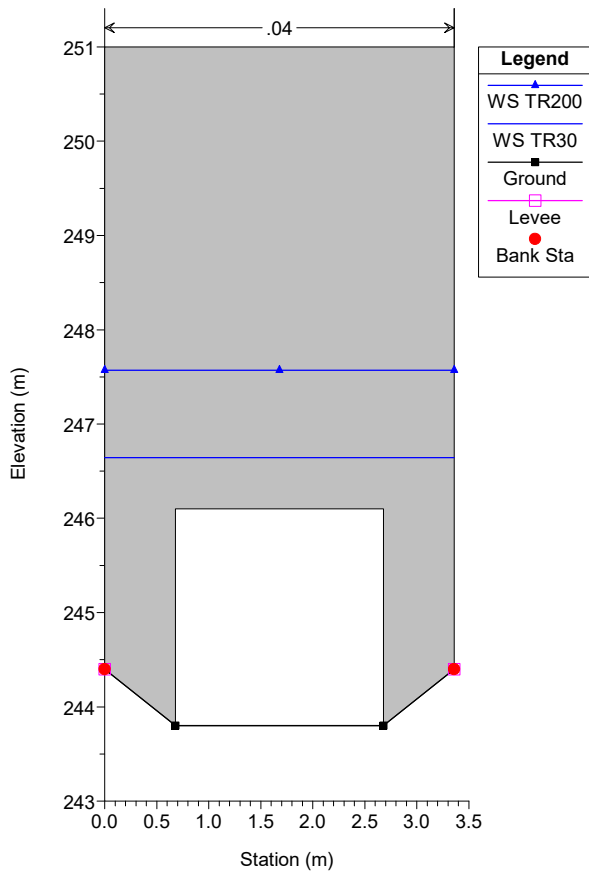
SUD1 Plan: Taratura 10/04/2019
SANZENO_C0



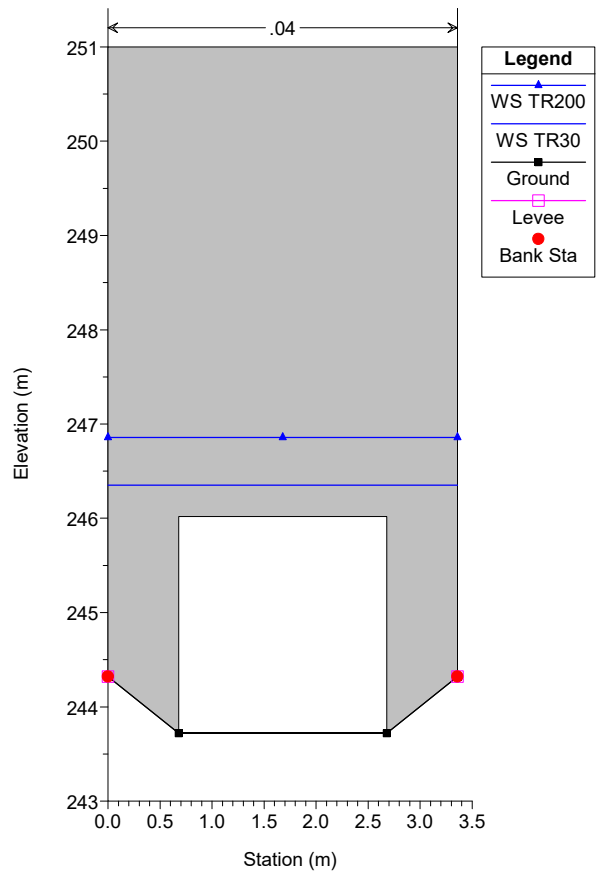
SUD1 Plan: Taratura 10/04/2019
SANZENO_C1

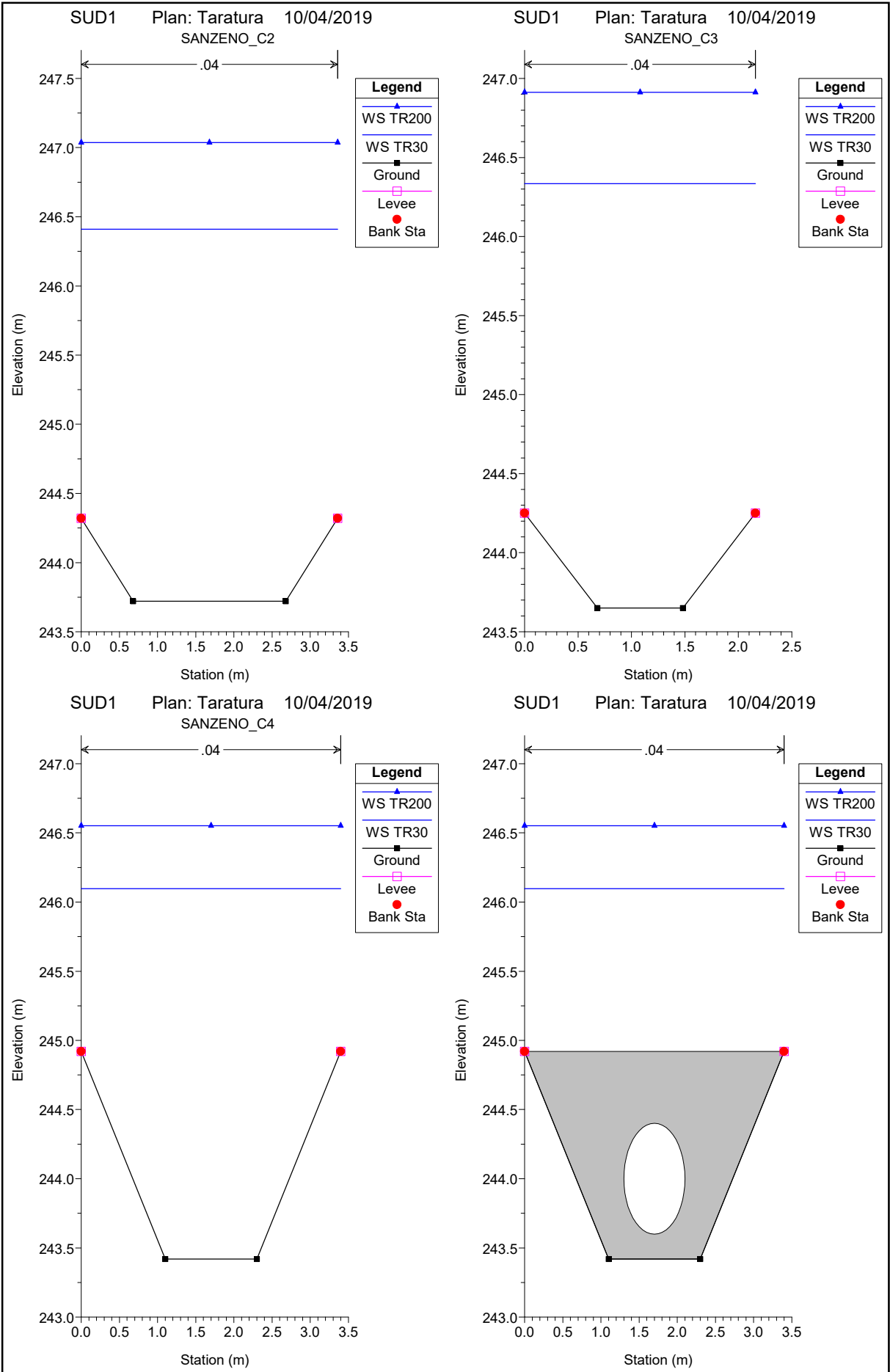


SUD1 Plan: Taratura 10/04/2019

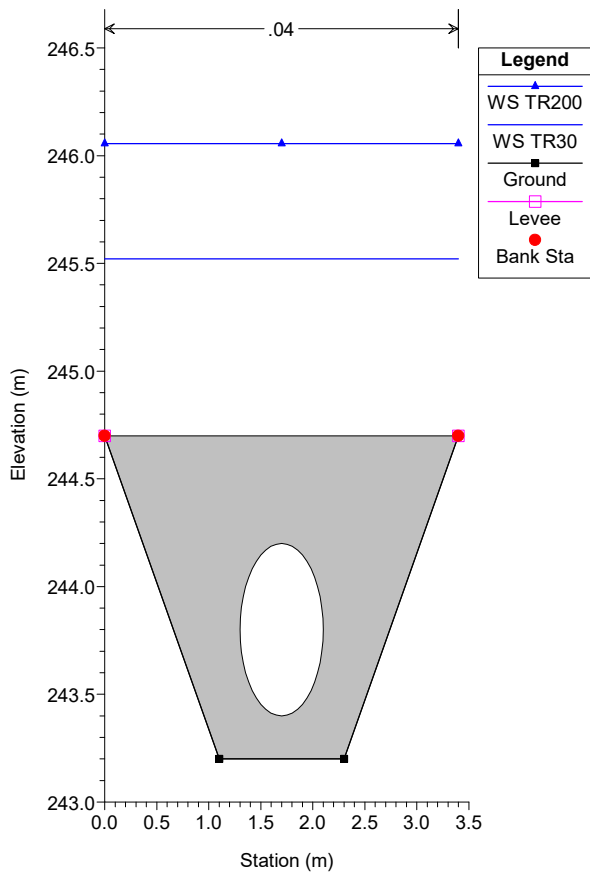


SUD1 Plan: Taratura 10/04/2019

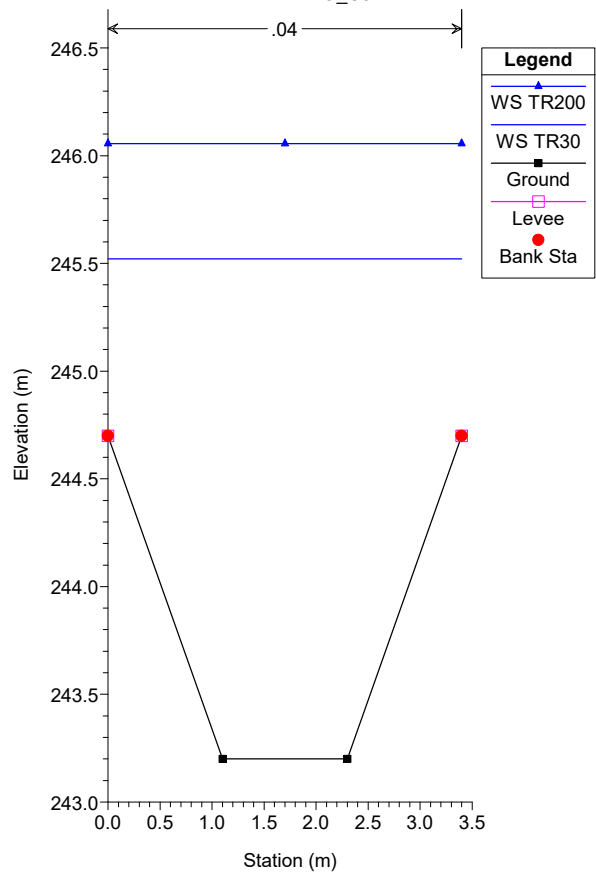




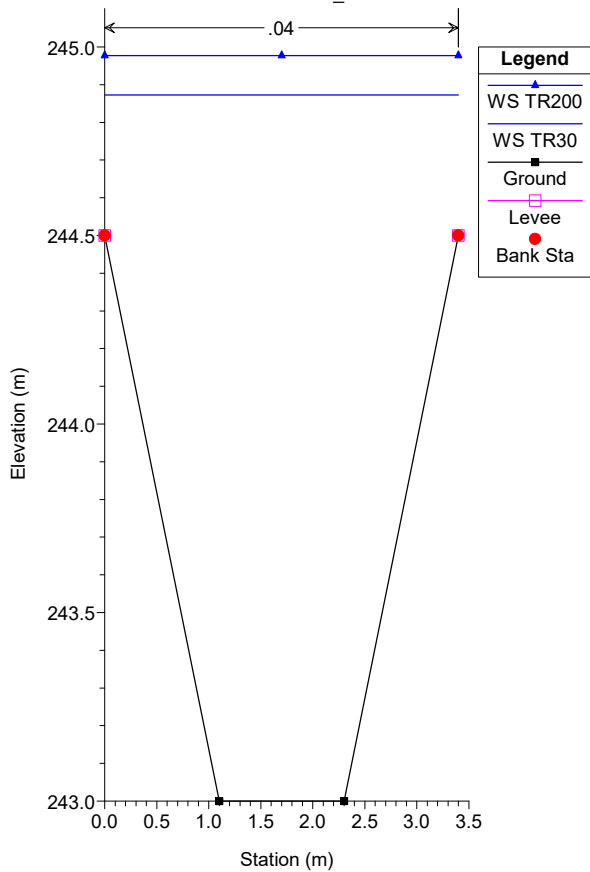
SUD1 Plan: Taratura 10/04/2019



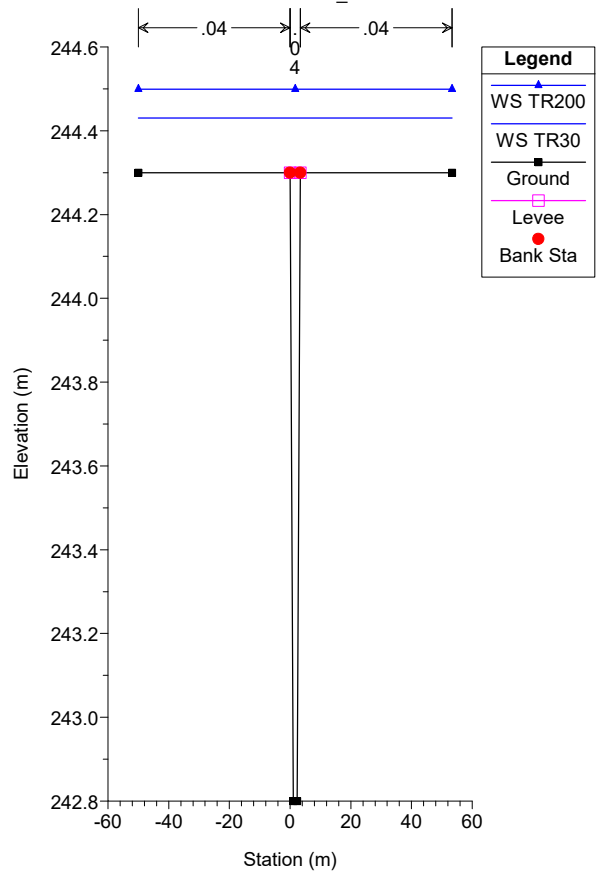
SUD1 Plan: Taratura 10/04/2019
SANZENO_C5



SUD1 Plan: Taratura 10/04/2019
SANZENO_C6

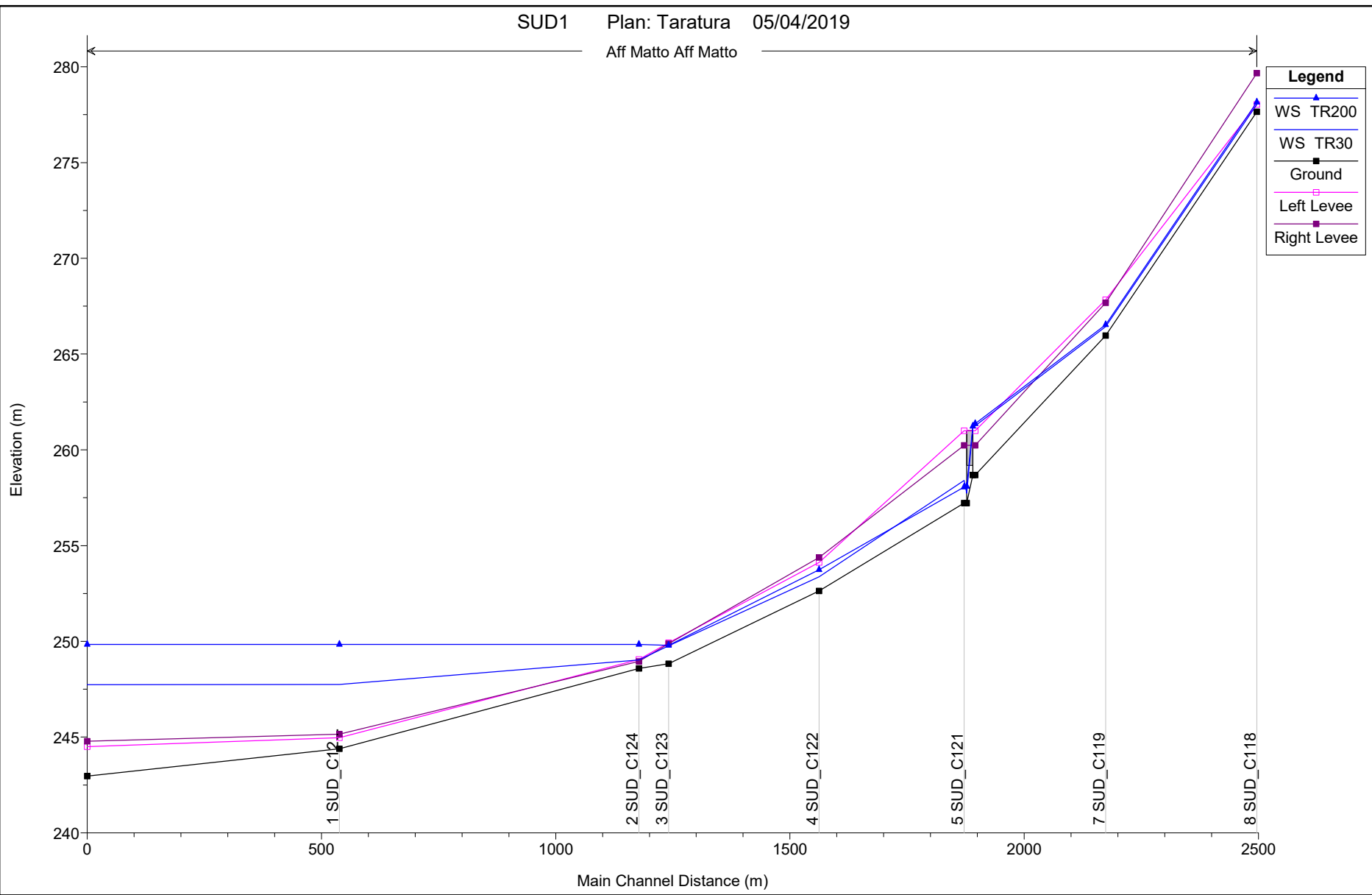


SUD1 Plan: Taratura 10/04/2019
SANZENO_C7



SUD1 Plan: Taratura 05/04/2019

Aff Matto Aff Matto



Elevation (m)

Main Channel Distance (m)

Legend

- WS TR200 (Blue line with triangle)
- WS TR30 (Blue line with triangle)
- Ground (Black line with square)
- Left Levee (Magenta line with square)
- Right Levee (Blue line with triangle)

1 SUD_C12

2 SUD_C124

3 SUD_C123

4 SUD_C122

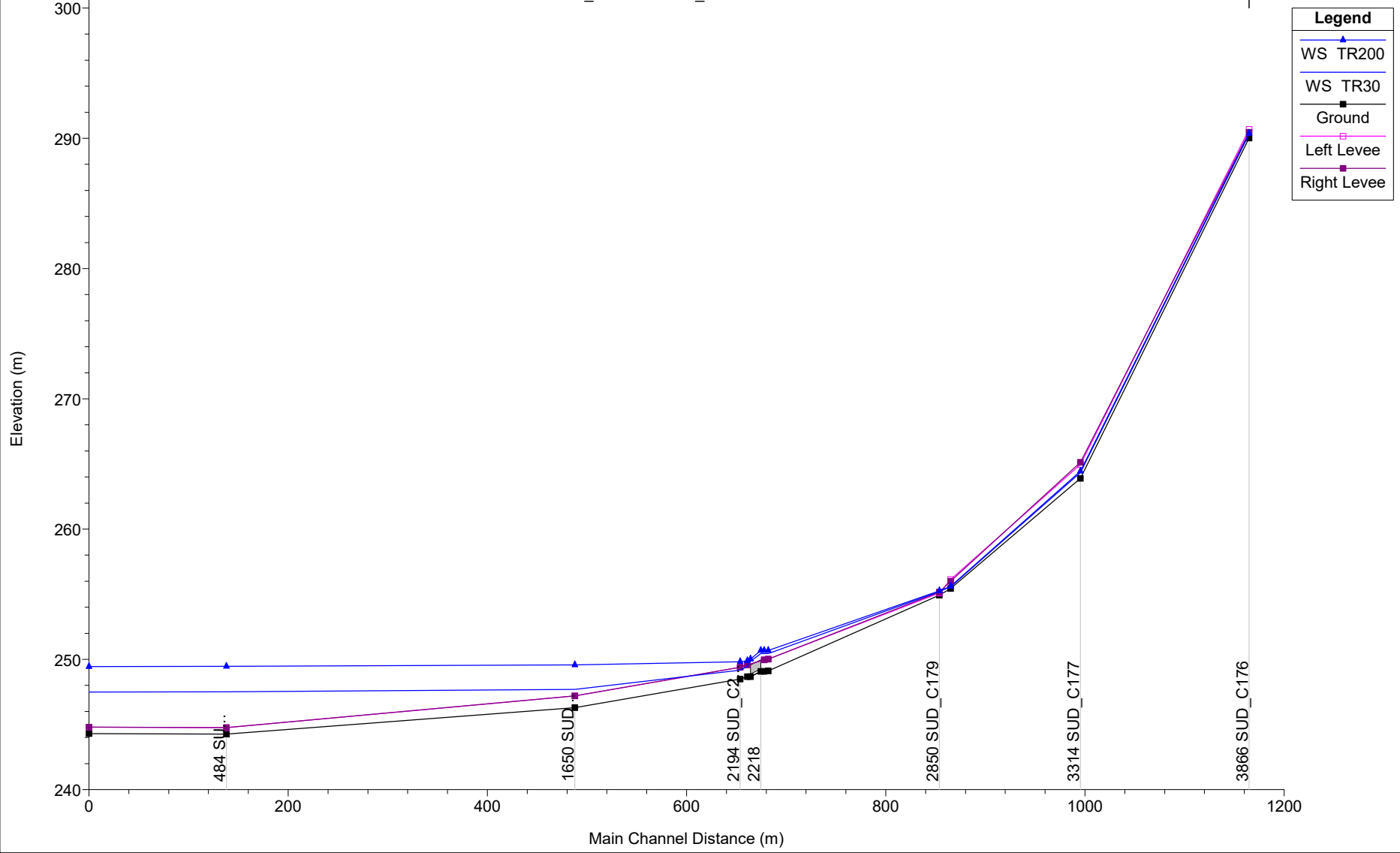
5 SUD_C121

7 SUD_C119

8 SUD_C118

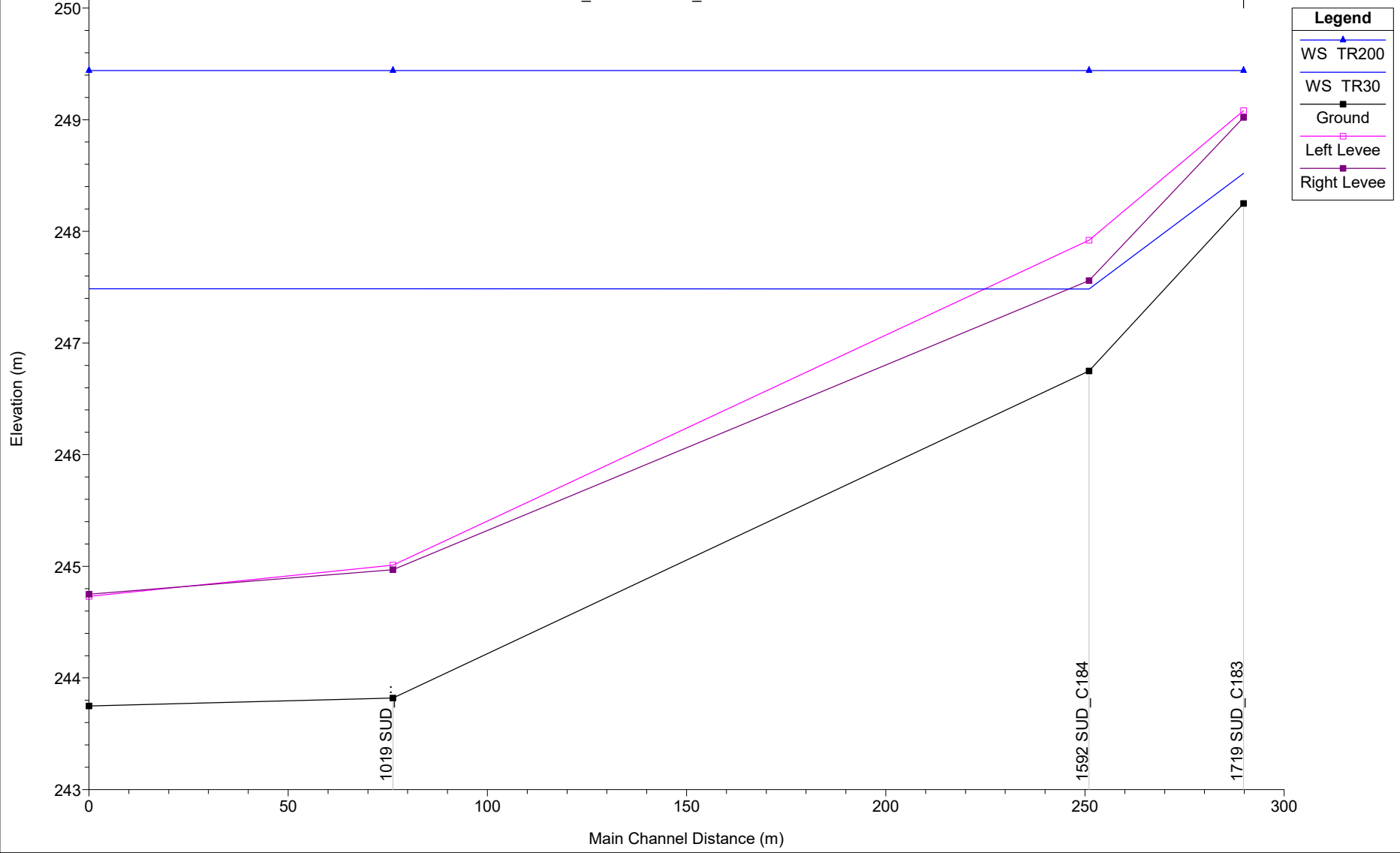
SUD1 Plan: Taratura 05/04/2019

RIO_QUERCE RIO_QUERCE1



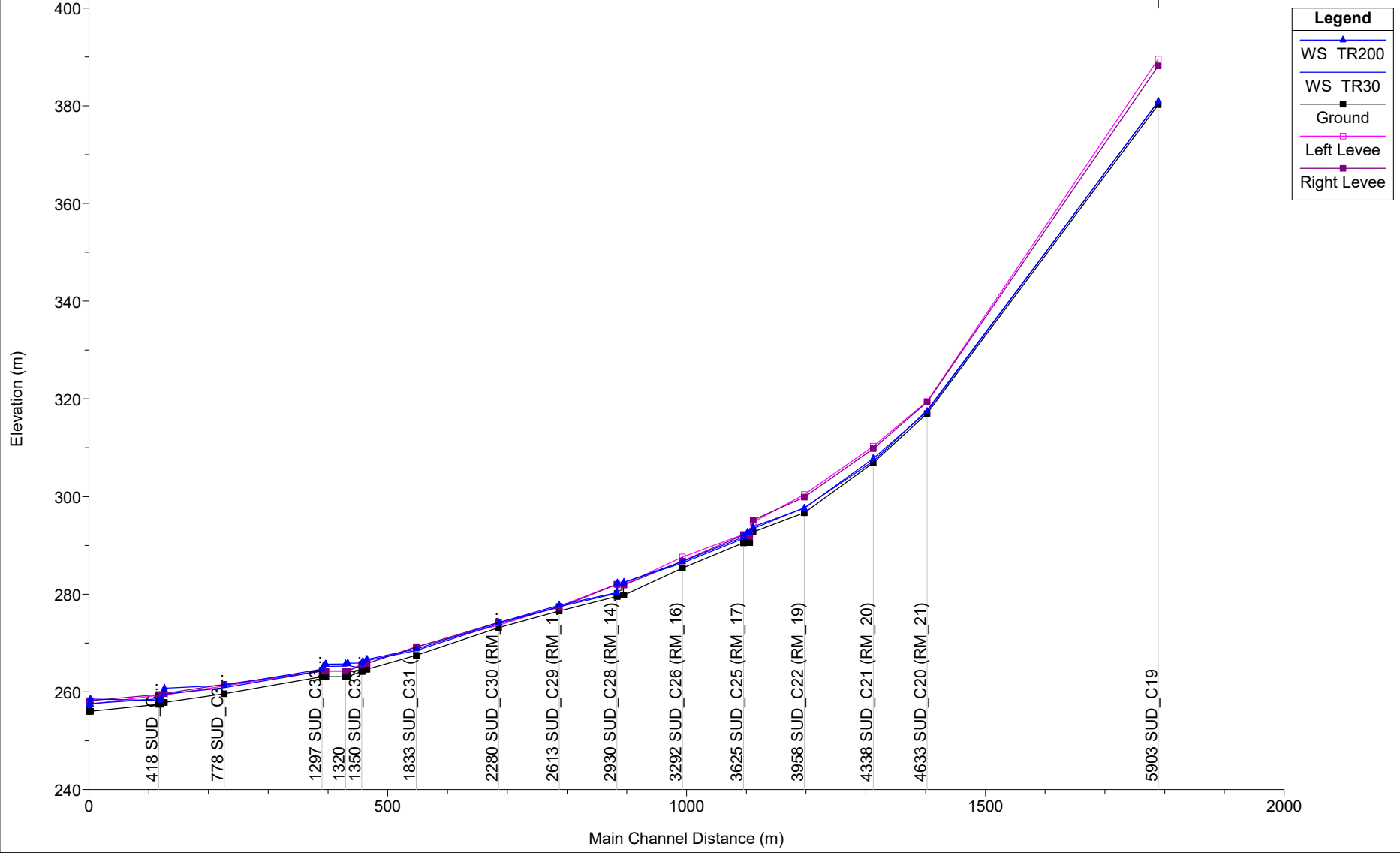
SUD1 Plan: Taratura 05/04/2019

RIO_QUERCE RIO_QUERCE2



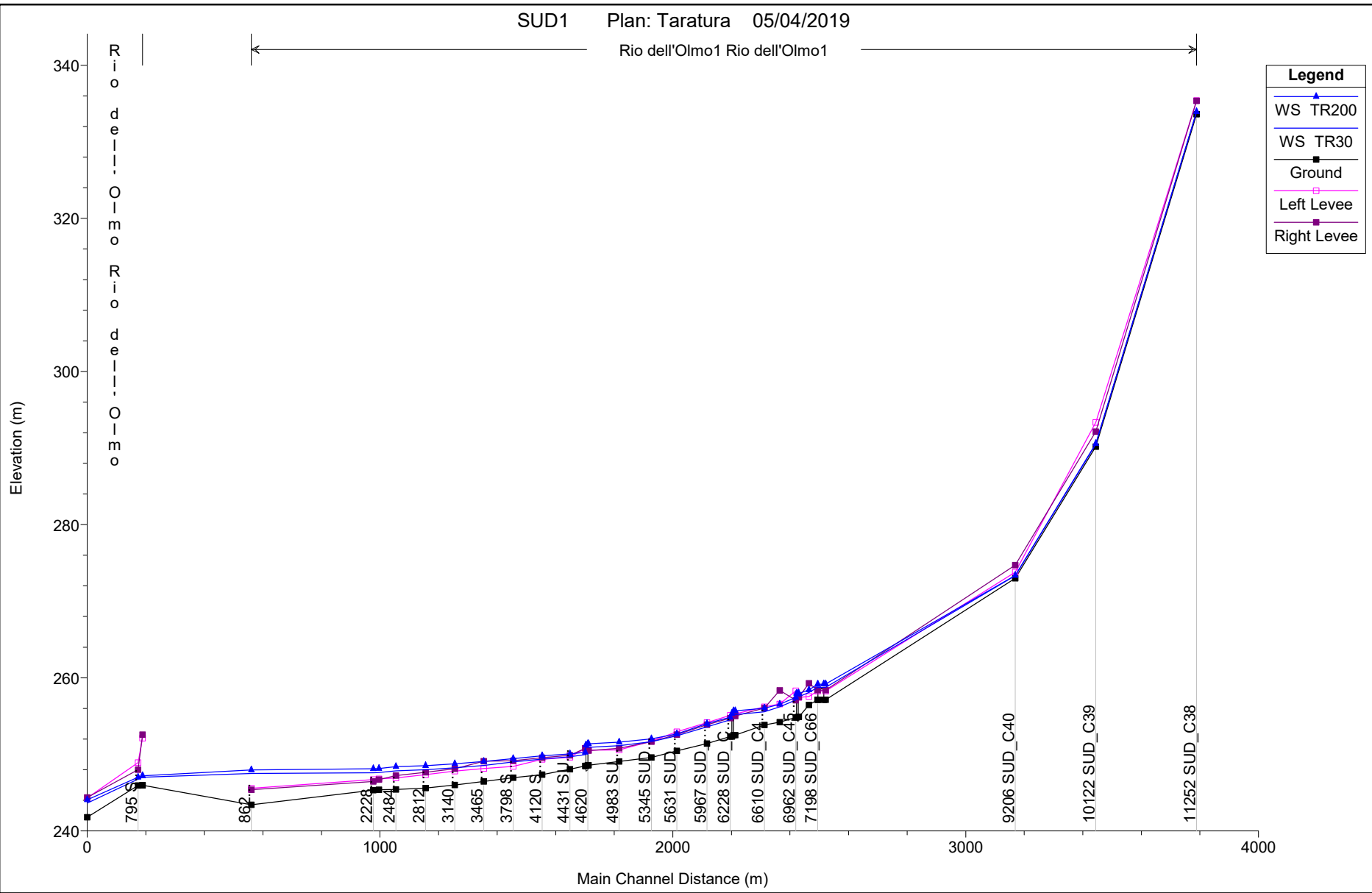
SUD1 Plan: Taratura 05/04/2019

Lama Lama

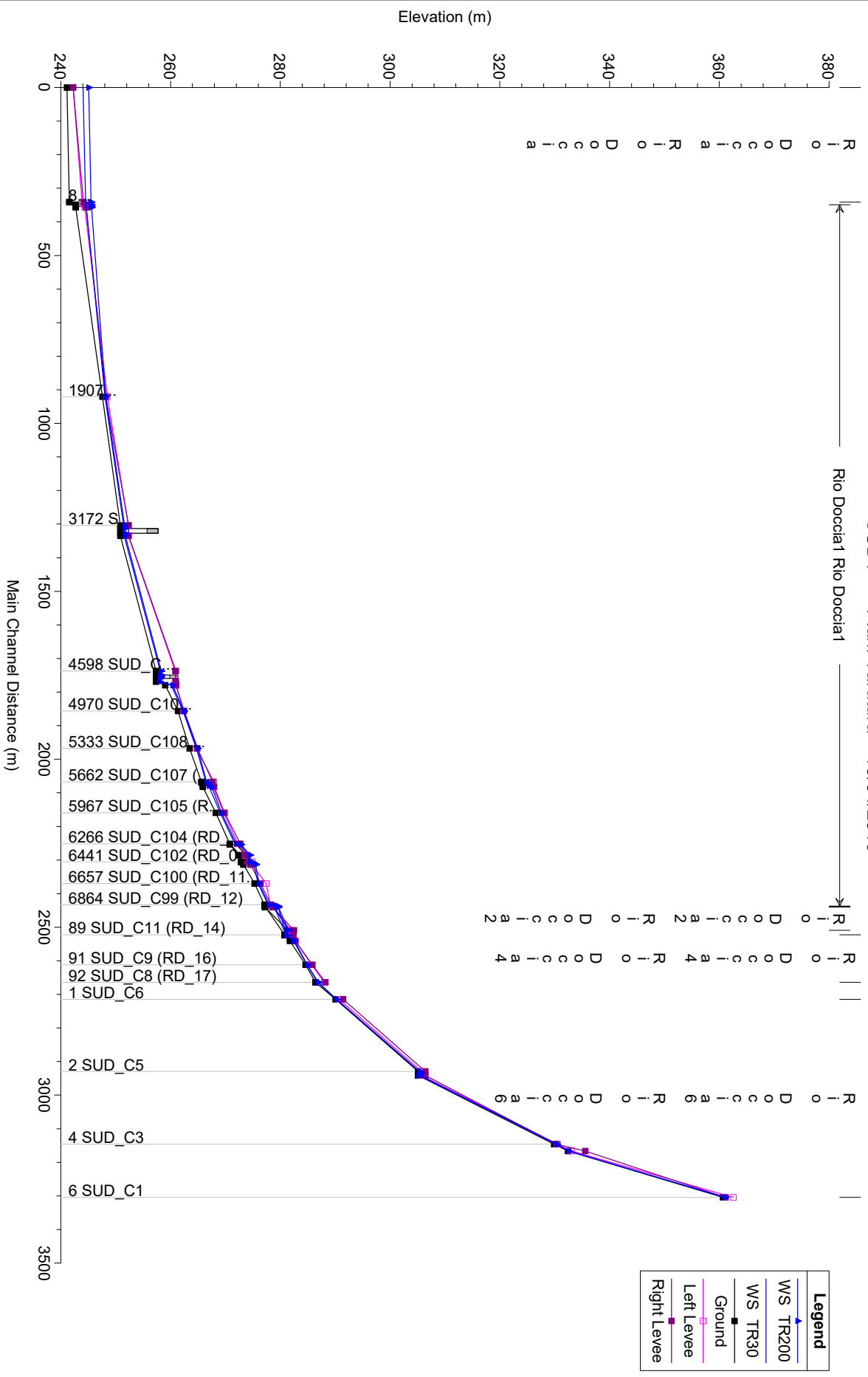


SUD1 Plan: Taratura 05/04/2019

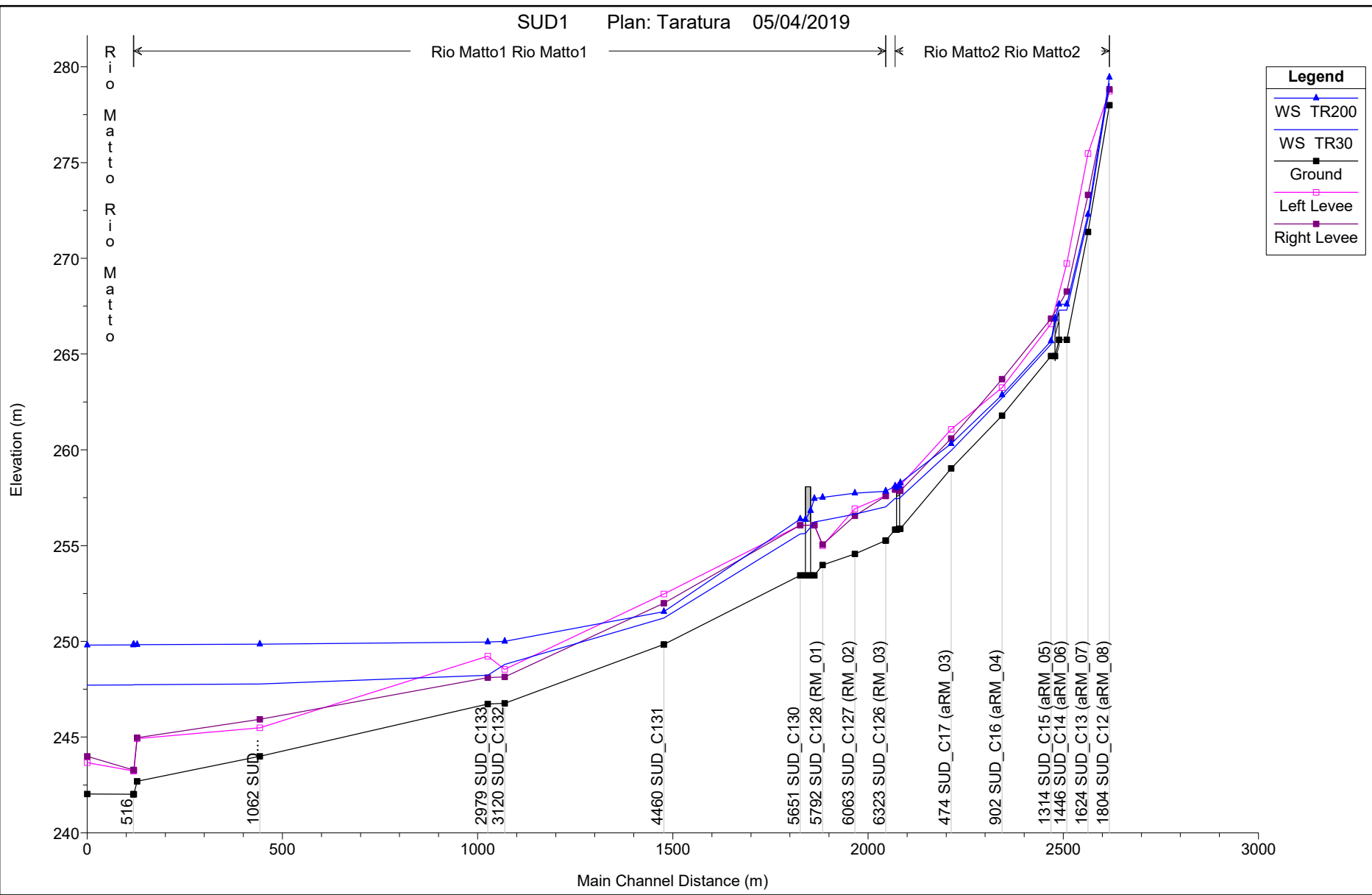
Rio dell'Olmo1 Rio dell'Olmo1



SUD1 Plan: Taratura 10/04/2019

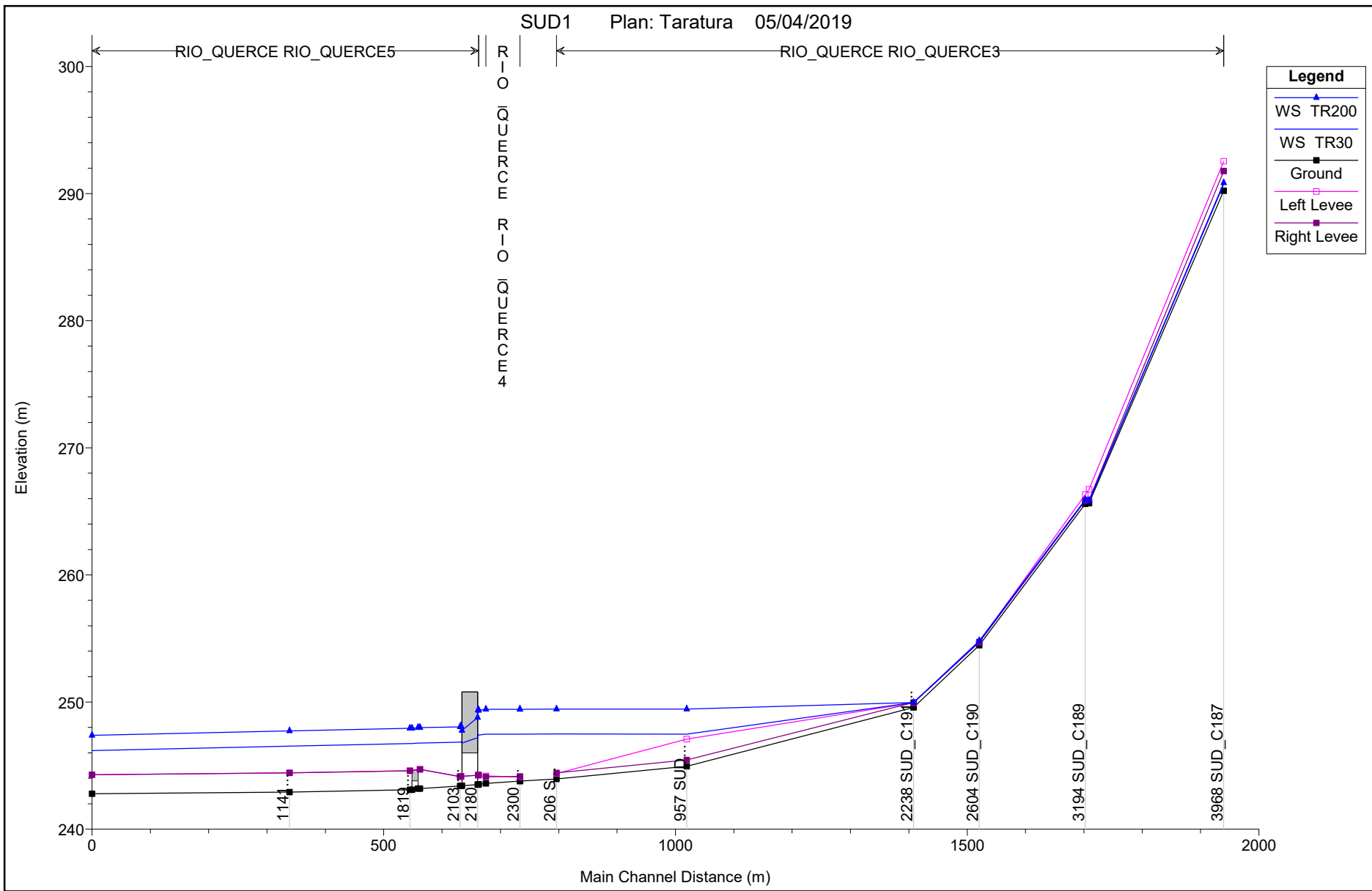


SUD1 Plan: Taratura 05/04/2019

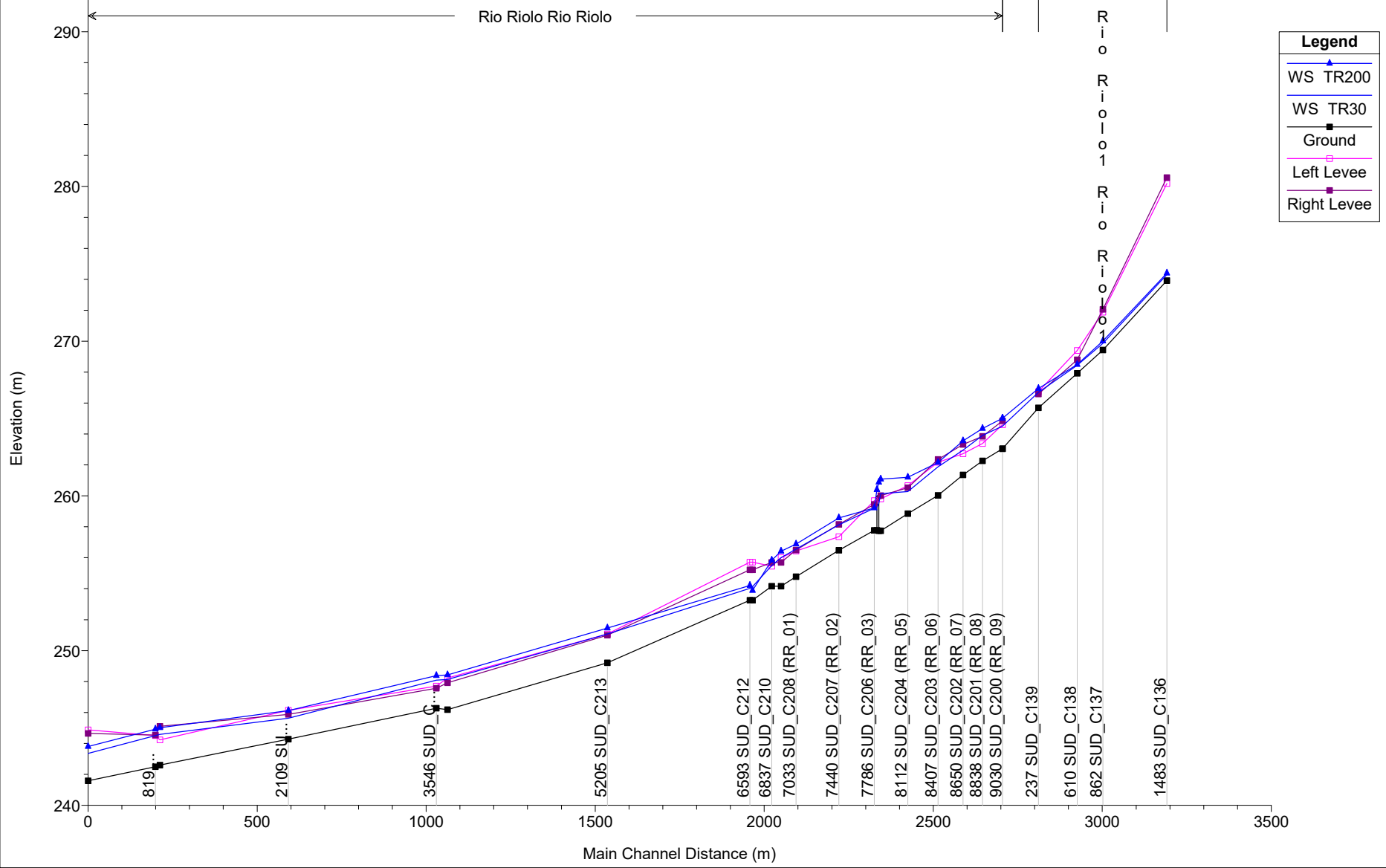


Legend

- WS TR200
- WS TR30
- Ground
- Left Levee
- Right Levee

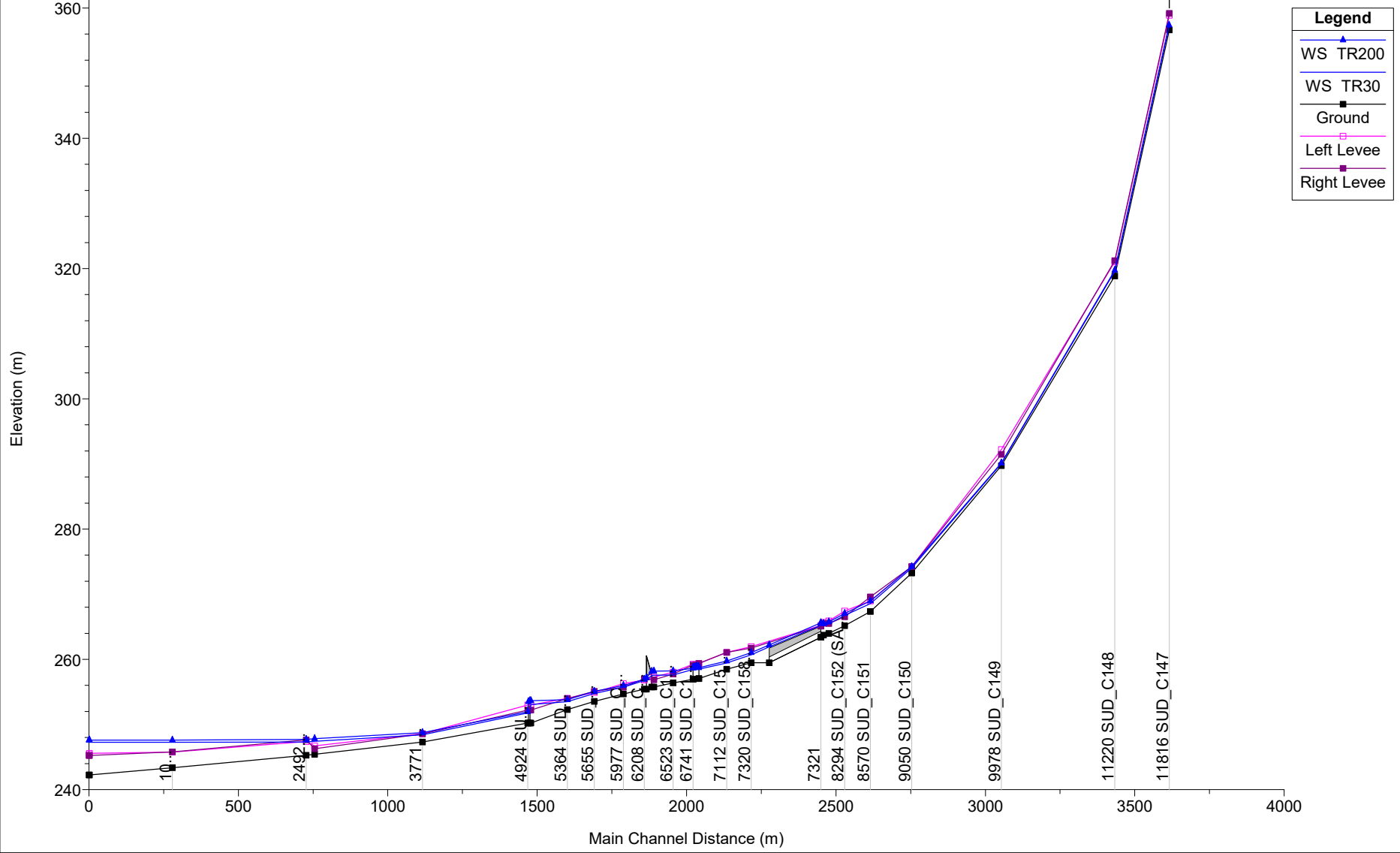


SUD1 Plan: Taratura 05/04/2019



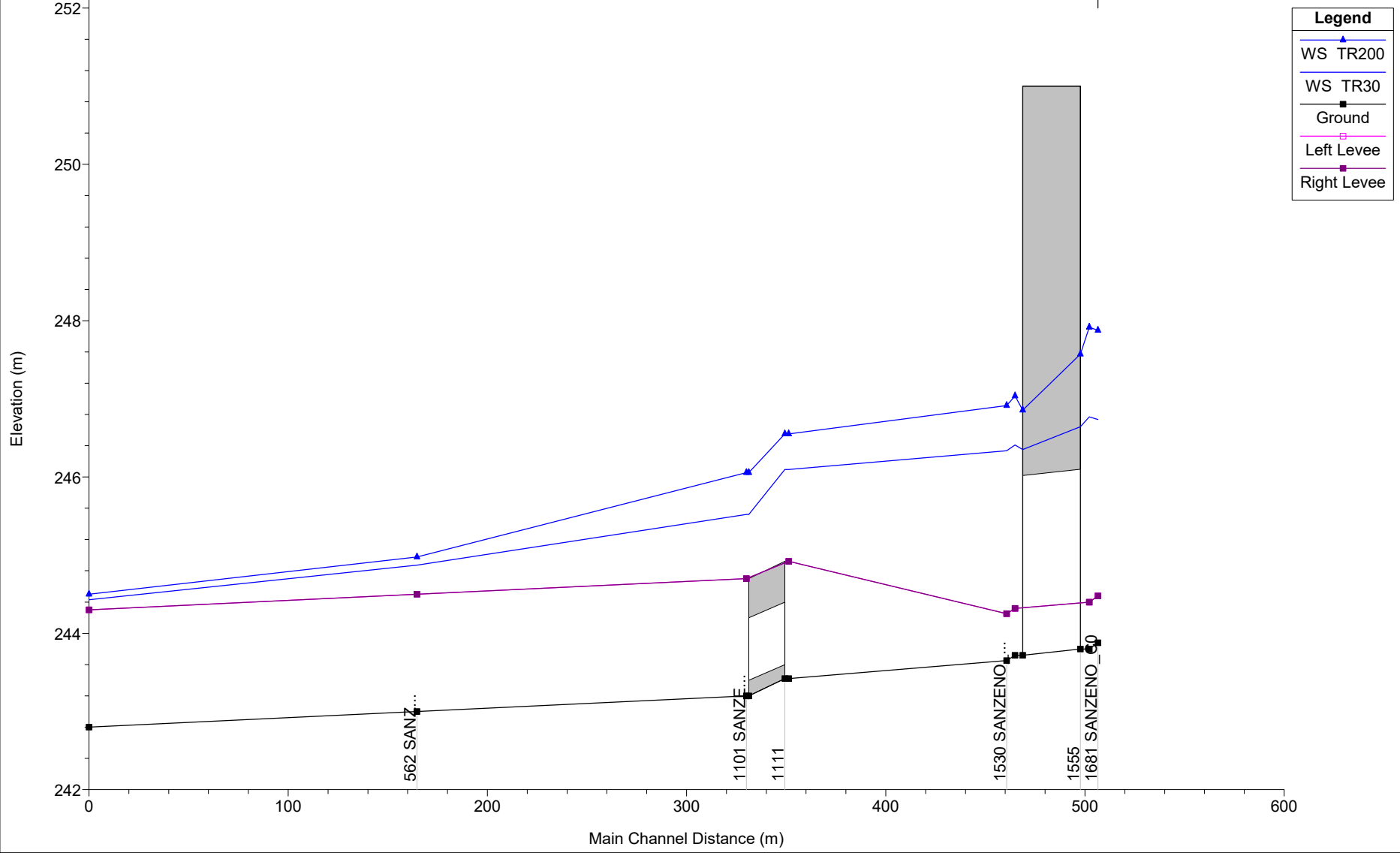
SUD1 Plan: Taratura 05/04/2019

Rio Sant'Antonio Rio Sant'Antonio



SUD1 Plan: Taratura 05/04/2019

San Zeno San Zeno



Legend

- WS TR200
- WS TR30
- Ground
- Left Levee
- Right Levee

562 SANZ...

1101 SANZE...

1111

1530 SANZENO...

1555

1681 SANZENO...

HEC-RAS Plan: Taratura

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
San Zeno	San Zeno	1681	TR30	7.60	243.88	246.74	245.15	246.83	0.003695	1.32	5.76	2.16	0.26
San Zeno	San Zeno	1681	TR200	11.90	243.88	247.88	245.53	247.98	0.004008	1.45	8.22	2.16	0.24
San Zeno	San Zeno	1667	TR30	7.60	243.80	246.77	244.73	246.80	0.000869	0.79	9.57	3.36	0.15
San Zeno	San Zeno	1667	TR200	11.90	243.80	247.91	245.01	247.96	0.000947	0.89	13.42	3.36	0.14
San Zeno	San Zeno	1555		Bridge									
San Zeno	San Zeno	1542	TR30	7.60	243.72	246.41	244.65	246.45	0.001119	0.88	8.63	3.36	0.18
San Zeno	San Zeno	1542	TR200	11.90	243.72	247.04	244.92	247.10	0.001611	1.11	10.73	3.36	0.20
San Zeno	San Zeno	1530	TR30	7.60	243.65	246.33	244.92	246.44	0.004319	1.41	5.39	2.16	0.28
San Zeno	San Zeno	1530	TR200	11.90	243.65	246.91	245.30	247.08	0.006522	1.79	6.64	2.16	0.33
San Zeno	San Zeno	1173	TR30	7.60	243.42	246.10	244.66	246.15	0.001612	1.02	7.45	3.40	0.22
San Zeno	San Zeno	1173	TR200	11.90	243.42	246.55	244.98	246.64	0.002467	1.32	9.00	3.40	0.26
San Zeno	San Zeno	1111		Culvert									
San Zeno	San Zeno	1101	TR30	7.60	243.20	245.52	244.43	245.60	0.002535	1.22	6.24	3.40	0.29
San Zeno	San Zeno	1101	TR200	11.90	243.20	246.06	244.77	246.17	0.003243	1.48	8.06	3.40	0.31
San Zeno	San Zeno	562	TR30	7.60	243.00	244.87	244.24	245.01	0.005298	1.61	4.72	3.40	0.44
San Zeno	San Zeno	562	TR200	11.90	243.00	244.98	244.56	245.26	0.010707	2.35	5.07	3.40	0.61
San Zeno	San Zeno	19	TR30	7.60	242.80	244.43	244.04	244.46	0.002073	0.97	16.93	103.40	0.29
San Zeno	San Zeno	19	TR200	11.90	242.80	244.50	244.44	244.52	0.002070	1.01	24.07	103.40	0.29
RIO_QUERCE	RIO_QUERCE1	3866	TR30	1.40	290.01	290.31	290.34	290.45	0.038934	1.64	0.86	4.42	1.19
RIO_QUERCE	RIO_QUERCE1	3866	TR200	2.20	290.01	290.38	290.43	290.56	0.038939	1.86	1.18	5.04	1.22
RIO_QUERCE	RIO_QUERCE1	3314	TR30	1.40	263.90	264.34	264.34	264.48	0.025257	1.65	0.85	3.03	0.99
RIO_QUERCE	RIO_QUERCE1	3314	TR200	2.20	263.90	264.45	264.45	264.62	0.024182	1.83	1.20	3.51	1.00
RIO_QUERCE	RIO_QUERCE1	2887	TR30	1.40	255.44	255.58	255.69	256.07	0.392799	3.10	0.45	5.11	3.33
RIO_QUERCE	RIO_QUERCE1	2887	TR200	2.20	255.44	255.61	255.75	256.32	0.433944	3.74	0.59	5.41	3.62
RIO_QUERCE	RIO_QUERCE1	2850	TR30	1.40	254.92	255.20	255.20	255.30	0.029213	1.34	1.05	5.80	1.01
RIO_QUERCE	RIO_QUERCE1	2850	TR200	2.20	254.92	255.26	255.27	255.39	0.031426	1.63	1.35	5.80	1.08
RIO_QUERCE	RIO_QUERCE1	2284	TR30	1.40	249.12	250.43	249.80	250.47	0.003655	0.89	1.57	1.50	0.28
RIO_QUERCE	RIO_QUERCE1	2284	TR200	2.20	249.12	250.68	249.99	250.74	0.005342	1.14	1.93	1.50	0.32
RIO_QUERCE	RIO_QUERCE1	2271	TR30	1.40	249.07	250.44	249.60	250.46	0.001423	0.64	2.20	1.90	0.19
RIO_QUERCE	RIO_QUERCE1	2271	TR200	2.20	249.07	250.69	249.77	250.72	0.002151	0.82	2.67	1.90	0.22
RIO_QUERCE	RIO_QUERCE1	2218		Culvert									
RIO_QUERCE	RIO_QUERCE1	2217	TR30	1.40	248.67	249.47	249.20	249.55	0.008569	1.26	1.11	1.80	0.51
RIO_QUERCE	RIO_QUERCE1	2217	TR200	2.20	248.67	249.89	249.37	249.96	0.004991	1.15	1.92	1.90	0.37
RIO_QUERCE	RIO_QUERCE1	2194	TR30	1.40	248.49	249.17	249.17	249.41	0.038605	2.20	0.64	1.28	1.00
RIO_QUERCE	RIO_QUERCE1	2194	TR200	2.20	248.49	249.81	249.36	249.91	0.008940	1.40	1.57	1.50	0.44
RIO_QUERCE	RIO_QUERCE1	1650	TR30	1.40	246.29	247.69	246.97	247.72	0.003010	0.83	1.69	1.50	0.25
RIO_QUERCE	RIO_QUERCE1	1650	TR200	2.20	246.29	249.58	247.16	249.59	0.000727	0.49	4.53	1.50	0.09
RIO_QUERCE	RIO_QUERCE1	484	TR30	1.40	244.26	247.52	244.84	247.52	0.000222	0.28	4.96	1.60	0.05
RIO_QUERCE	RIO_QUERCE1	484	TR200	2.20	244.26	249.47	245.00	249.47	0.000188	0.27	8.08	1.60	0.04
RIO_QUERCE	RIO_QUERCE1	33	TR30	1.40	244.29	247.49	244.87	247.49	0.000232	0.29	4.86	1.60	0.05
RIO_QUERCE	RIO_QUERCE1	33	TR200	2.20	244.29	249.44	245.02	249.44	0.000193	0.28	7.99	1.60	0.04
RIO_QUERCE	RIO_QUERCE2	1719	TR30	0.70	248.25	248.52	248.52	248.62	0.028471	1.38	0.51	2.58	0.99
RIO_QUERCE	RIO_QUERCE2	1719	TR200	1.10	248.25	249.44	248.59	249.44	0.000160	0.26	4.30	4.72	0.09
RIO_QUERCE	RIO_QUERCE2	1592	TR30	0.70	246.75	247.48	247.07	247.49	0.000803	0.38	1.83	4.30	0.19
RIO_QUERCE	RIO_QUERCE2	1592	TR200	1.10	246.75	249.44	247.15	249.44	0.000007	0.08	13.35	6.10	0.02
RIO_QUERCE	RIO_QUERCE2	1019	TR30	0.70	243.82	247.49	244.19	247.49	0.000003	0.05	13.77	4.33	0.01
RIO_QUERCE	RIO_QUERCE2	1019	TR200	1.10	243.82	249.44	244.28	249.44	0.000002	0.05	22.23	4.33	0.01
RIO_QUERCE	RIO_QUERCE2	768	TR30	0.70	243.75	247.49	244.06	247.49	0.000001	0.03	25.46	7.90	0.00
RIO_QUERCE	RIO_QUERCE2	768	TR200	1.10	243.75	249.44	244.13	249.44	0.000000	0.03	40.90	7.90	0.00
RIO_QUERCE	RIO_QUERCE3	3968	TR30	2.40	290.22	290.73	290.79	290.97	0.040302	2.15	1.12	3.83	1.27
RIO_QUERCE	RIO_QUERCE3	3968	TR200	3.90	290.22	290.85	290.93	291.16	0.040308	2.46	1.59	4.44	1.31
RIO_QUERCE	RIO_QUERCE3	3216	TR30	2.40	265.64	265.80	265.98	266.85	0.675322	4.54	0.53	5.05	4.48
RIO_QUERCE	RIO_QUERCE3	3216	TR200	3.90	265.64	265.84	266.09	267.24	0.642559	5.24	0.74	5.51	4.56
RIO_QUERCE	RIO_QUERCE3	3194	TR30	2.40	265.59	265.89	265.92	266.01	0.031269	1.57	1.65	12.45	1.09
RIO_QUERCE	RIO_QUERCE3	3194	TR200	3.90	265.59	265.92	265.98	266.13	0.045713	2.08	2.12	14.44	1.34
RIO_QUERCE	RIO_QUERCE3	2604	TR30	2.40	254.46	254.73	254.83	255.11	0.157584	2.74	0.88	6.00	2.29
RIO_QUERCE	RIO_QUERCE3	2604	TR200	3.90	254.46	254.82	254.93	255.19	0.082520	2.70	1.44	6.00	1.76
RIO_QUERCE	RIO_QUERCE3	2238	TR30	6.80	249.57	249.96	249.96	249.97	0.001145	0.23	15.41	51.35	0.19
RIO_QUERCE	RIO_QUERCE3	2238	TR200	10.50	249.57	249.96	249.96	249.99	0.002731	0.36	15.41	51.35	0.30
RIO_QUERCE	RIO_QUERCE3	957	TR30	6.80	244.95	247.48	245.94	247.50	0.000602	0.67	10.22	5.91	0.16
RIO_QUERCE	RIO_QUERCE3	957	TR200	10.50	244.95	249.44	246.18	249.45	0.000186	0.48	21.79	5.91	0.08
RIO_QUERCE	RIO_QUERCE3	206	TR30	6.80	243.95	247.48	244.53	247.48	0.000020	0.18	37.11	11.30	0.03
RIO_QUERCE	RIO_QUERCE3	206	TR200	10.50	243.95	249.44	244.64	249.44	0.000013	0.18	59.21	11.30	0.02
RIO_QUERCE	RIO_QUERCE4	2300	TR30	7.50	243.79	247.48	244.48	247.48	0.000058	0.29	26.31	7.61	0.05
RIO_QUERCE	RIO_QUERCE4	2300	TR200	11.60	243.79	249.43	244.64	249.44	0.000043	0.28	41.20	7.61	0.04
RIO_QUERCE	RIO_QUERCE4	2200	TR30	7.50	243.59	247.47	244.36	247.48	0.000073	0.31	23.91	6.61	0.05
RIO_QUERCE	RIO_QUERCE4	2200	TR200	11.60	243.59	249.43	244.54	249.43	0.000058	0.31	36.84	6.61	0.04

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
RIO_QUERCE	RIO_QUERCE5	2190	TR30	11.00	243.52	247.40	244.95	247.47	0.001910	1.12	9.85	2.70	0.19
RIO_QUERCE	RIO_QUERCE5	2190	TR200	16.90	243.52	249.36	245.34	249.43	0.001704	1.12	15.14	2.70	0.15
RIO_QUERCE	RIO_QUERCE5	2188	TR30	11.00	243.50	247.43	244.64	247.46	0.000702	0.79	13.89	3.70	0.13
RIO_QUERCE	RIO_QUERCE5	2188	TR200	16.90	243.50	249.38	244.96	249.42	0.000621	0.80	21.13	3.70	0.11
RIO_QUERCE	RIO_QUERCE5	2180			Bridge								
RIO_QUERCE	RIO_QUERCE5	2108	TR30	11.00	243.41	246.89	244.55	246.93	0.000951	0.90	12.24	3.70	0.16
RIO_QUERCE	RIO_QUERCE5	2108	TR200	16.90	243.41	248.11	244.87	248.16	0.001063	1.01	16.76	3.70	0.15
RIO_QUERCE	RIO_QUERCE5	2103	TR30	11.00	243.39	246.84	244.82	246.93	0.002560	1.27	8.69	2.70	0.23
RIO_QUERCE	RIO_QUERCE5	2103	TR200	16.90	243.39	248.05	245.22	248.16	0.002896	1.41	11.95	2.70	0.21
RIO_QUERCE	RIO_QUERCE5	1880	TR30	11.00	243.20	246.77	244.68	246.81	0.000961	0.91	12.03	4.00	0.17
RIO_QUERCE	RIO_QUERCE5	1880	TR200	16.90	243.20	247.98	244.98	248.03	0.000997	1.00	16.87	4.00	0.16
RIO_QUERCE	RIO_QUERCE5	1820			Culvert								
RIO_QUERCE	RIO_QUERCE5	1819	TR30	11.00	243.10	246.73	244.58	246.77	0.000917	0.90	12.25	4.00	0.16
RIO_QUERCE	RIO_QUERCE5	1819	TR200	16.90	243.10	247.94	244.88	247.99	0.000965	0.99	17.10	4.00	0.15
RIO_QUERCE	RIO_QUERCE5	1141	TR30	11.00	242.92	246.53	244.40	246.58	0.000937	0.90	12.16	3.98	0.17
RIO_QUERCE	RIO_QUERCE5	1141	TR200	16.90	242.92	247.74	244.71	247.79	0.000989	1.00	16.95	3.98	0.15
RIO_QUERCE	RIO_QUERCE5	31	TR30	11.00	242.78	246.19	244.25	246.23	0.001090	0.96	11.46	4.03	0.18
RIO_QUERCE	RIO_QUERCE5	31	TR200	16.90	242.78	247.38	244.56	247.43	0.001090	1.04	16.27	4.03	0.17
Rio Sant'Antonio	Rio Sant'Antonio	11816	TR30	3.20	356.63	357.27	357.29	357.44	0.031687	1.84	1.74	6.31	1.12
Rio Sant'Antonio	Rio Sant'Antonio	11816	TR200	5.40	356.63	357.39	357.42	357.61	0.031696	2.07	2.61	7.90	1.15
Rio Sant'Antonio	Rio Sant'Antonio	11220	TR30	3.20	318.86	319.58	319.58	319.78	0.023508	1.95	1.64	4.23	1.00
Rio Sant'Antonio	Rio Sant'Antonio	11220	TR200	5.40	318.86	319.75	319.75	320.01	0.022250	2.24	2.41	4.77	1.01
Rio Sant'Antonio	Rio Sant'Antonio	9978	TR30	3.20	289.74	290.06	290.48	292.98	0.760888	7.56	0.42	1.89	5.11
Rio Sant'Antonio	Rio Sant'Antonio	9978	TR200	5.40	289.74	290.14	290.69	294.46	0.886383	9.20	0.59	2.17	5.66
Rio Sant'Antonio	Rio Sant'Antonio	9050	TR30	3.20	273.26	274.04	274.04	274.29	0.026144	2.23	1.43	2.81	1.00
Rio Sant'Antonio	Rio Sant'Antonio	9050	TR200	5.40	273.26	274.26	274.26	274.60	0.025624	2.60	2.08	3.03	1.00
Rio Sant'Antonio	Rio Sant'Antonio	8570	TR30	3.20	267.35	268.56	268.36	268.75	0.016988	1.91	1.67	2.43	0.74
Rio Sant'Antonio	Rio Sant'Antonio	8570	TR200	5.40	267.35	268.97	268.69	269.16	0.012170	1.91	2.82	3.24	0.65
Rio Sant'Antonio	Rio Sant'Antonio	8294	TR30	6.80	265.15	266.74	266.61	267.05	0.021032	2.48	2.74	3.01	0.83
Rio Sant'Antonio	Rio Sant'Antonio	8294	TR200	11.20	265.15	267.06	266.97	267.51	0.024224	2.97	3.77	3.38	0.90
Rio Sant'Antonio	Rio Sant'Antonio	8115	TR30	6.80	263.99	265.47	265.47	265.80	0.026626	2.56	2.66	3.95	1.00
Rio Sant'Antonio	Rio Sant'Antonio	8115	TR200	11.20	263.99	265.75	265.75	266.19	0.025707	2.93	3.83	4.37	1.00
Rio Sant'Antonio	Rio Sant'Antonio	8060	TR30	6.80	263.73	265.15	264.92	265.35	0.010970	1.99	3.41	4.01	0.69
Rio Sant'Antonio	Rio Sant'Antonio	8060	TR200	11.20	263.73	265.51	265.24	265.77	0.010778	2.24	5.00	4.80	0.70
Rio Sant'Antonio	Rio Sant'Antonio	8029	TR30	6.80	263.40	265.22	264.41	265.27	0.002231	0.94	7.21	8.62	0.33
Rio Sant'Antonio	Rio Sant'Antonio	8029	TR200	11.20	263.40	265.62	264.72	265.68	0.001847	1.06	10.61	8.62	0.30
Rio Sant'Antonio	Rio Sant'Antonio	7321			Culvert								
Rio Sant'Antonio	Rio Sant'Antonio	7320	TR30	6.80	259.47	260.71	260.45	260.88	0.008675	1.82	3.74	4.57	0.64
Rio Sant'Antonio	Rio Sant'Antonio	7320	TR200	11.20	259.47	261.03	260.74	261.26	0.008999	2.09	5.35	5.36	0.67
Rio Sant'Antonio	Rio Sant'Antonio	7112	TR30	6.80	258.50	259.46	259.46	259.79	0.021871	2.54	2.68	4.05	1.00
Rio Sant'Antonio	Rio Sant'Antonio	7112	TR200	11.20	258.50	259.74	259.74	260.16	0.020834	2.85	3.93	4.75	1.00
Rio Sant'Antonio	Rio Sant'Antonio	6805	TR30	6.80	257.05	258.47	257.99	258.57	0.004380	1.42	4.79	4.93	0.46
Rio Sant'Antonio	Rio Sant'Antonio	6805	TR200	11.20	257.05	258.71	258.28	258.88	0.006443	1.86	6.01	5.44	0.57
Rio Sant'Antonio	Rio Sant'Antonio	6750			Culvert								
Rio Sant'Antonio	Rio Sant'Antonio	6741	TR30	6.80	256.94	258.44	257.92	258.55	0.004580	1.46	4.64	4.43	0.46
Rio Sant'Antonio	Rio Sant'Antonio	6741	TR200	11.20	256.94	258.62	258.23	258.84	0.008045	2.05	5.47	4.77	0.61
Rio Sant'Antonio	Rio Sant'Antonio	6523	TR30	6.80	256.40	257.61	257.61	257.94	0.022993	2.57	2.65	3.96	1.00
Rio Sant'Antonio	Rio Sant'Antonio	6523	TR200	11.20	256.40	258.24	257.95	258.35	0.005898	1.46	7.68	10.05	0.53
Rio Sant'Antonio	Rio Sant'Antonio	6311	TR30	6.80	255.75	257.55	256.73	257.58	0.001147	0.76	9.00	9.12	0.24
Rio Sant'Antonio	Rio Sant'Antonio	6311	TR200	11.20	255.75	258.20	257.03	258.23	0.000676	0.75	14.90	9.12	0.19
Rio Sant'Antonio	Rio Sant'Antonio	6300			Bridge								
Rio Sant'Antonio	Rio Sant'Antonio	6208	TR30	6.80	255.41	256.76	256.76	257.15	0.026176	2.76	2.46	3.17	1.00
Rio Sant'Antonio	Rio Sant'Antonio	6208	TR200	11.20	255.41	256.93	257.09	257.63	0.040539	3.69	3.03	3.44	1.26
Rio Sant'Antonio	Rio Sant'Antonio	5977	TR30	10.70	254.70	255.71	255.61	255.92	0.012517	2.03	5.26	8.11	0.81
Rio Sant'Antonio	Rio Sant'Antonio	5977	TR200	17.10	254.70	255.97	255.83	256.24	0.011490	2.32	7.38	8.44	0.79
Rio Sant'Antonio	Rio Sant'Antonio	5655	TR30	10.70	253.55	254.78	254.54	254.95	0.007912	1.84	5.83	7.13	0.65
Rio Sant'Antonio	Rio Sant'Antonio	5655	TR200	17.10	253.55	255.08	254.79	255.31	0.007781	2.11	8.12	7.75	0.66
Rio Sant'Antonio	Rio Sant'Antonio	5364	TR30	10.70	252.29	253.50	253.50	253.87	0.020012	2.69	3.99	5.38	1.00
Rio Sant'Antonio	Rio Sant'Antonio	5364	TR200	17.10	252.29	253.80	253.80	254.25	0.019083	2.99	5.72	6.28	1.00
Rio Sant'Antonio	Rio Sant'Antonio	4965	TR30	10.70	250.23	253.07	251.36	253.08	0.000307	0.57	18.75	10.42	0.14
Rio Sant'Antonio	Rio Sant'Antonio	4965	TR200	17.10	250.23	253.66	251.64	253.68	0.000342	0.69	24.92	10.42	0.14
Rio Sant'Antonio	Rio Sant'Antonio	4945			Culvert								
Rio Sant'Antonio	Rio Sant'Antonio	4924	TR30	10.70	250.23	251.76	251.36	251.89	0.005096	1.58	6.77	7.31	0.52
Rio Sant'Antonio	Rio Sant'Antonio	4924	TR200	17.10	250.23	251.97	251.64	252.18	0.007439	2.05	8.32	8.03	0.64
Rio Sant'Antonio	Rio Sant'Antonio	3771	TR30	10.70	247.29	248.43	248.43	248.69	0.020411	2.26	4.73	9.05	1.00

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio SantAntonio	Rio SantAntonio	3771	TR200	17.10	247.29	248.76	248.65	248.96	0.011489	1.98	8.62	12.80	0.77
Rio SantAntonio	Rio SantAntonio	2585	TR30	10.70	245.42	247.42	246.52	247.46	0.001055	0.88	12.16	8.60	0.24
Rio SantAntonio	Rio SantAntonio	2585	TR200	17.10	245.42	247.84	246.74	247.90	0.001246	1.08	15.80	8.60	0.26
Rio SantAntonio	Rio SantAntonio	2492	TR30	10.70	245.27	247.31	246.55	247.40	0.003045	1.36	7.89	6.77	0.40
Rio SantAntonio	Rio SantAntonio	2492	TR200	17.10	245.27	247.71	246.89	247.84	0.003328	1.59	10.77	7.50	0.42
Rio SantAntonio	Rio SantAntonio	1024	TR30	10.70	243.35	247.26	244.48	247.27	0.000082	0.36	29.44	10.20	0.07
Rio SantAntonio	Rio SantAntonio	1024	TR200	17.10	243.35	247.60	244.75	247.62	0.000153	0.52	32.93	10.20	0.09
Rio SantAntonio	Rio SantAntonio	112	TR30	10.70	242.24	247.25	243.07	247.26	0.000019	0.21	51.69	14.00	0.03
Rio SantAntonio	Rio SantAntonio	112	TR200	17.10	242.24	247.59	243.31	247.59	0.000038	0.30	56.39	14.00	0.05
Rio SantAntonio	Rio SantAntonio	107	TR30	10.70	242.24	247.25	243.02	247.26	0.000021	0.22	48.64	12.20	0.04
Rio SantAntonio	Rio SantAntonio	107	TR200	17.10	242.24	247.59	243.26	247.59	0.000043	0.32	52.73	12.20	0.05
Rio Riolo2	Rio Riolo2	948	TR30	7.30	270.65	271.72	271.73	271.94	0.022972	2.06	3.55	8.43	1.01
Rio Riolo2	Rio Riolo2	948	TR200	12.50	270.65	271.90	271.92	272.20	0.022974	2.41	5.18	9.60	1.05
Rio Riolo2	Rio Riolo2	624	TR30	7.30	268.49	269.37	269.39	269.72	0.023140	2.61	2.80	4.21	1.02
Rio Riolo2	Rio Riolo2	624	TR200	12.50	268.49	269.69	269.69	270.14	0.021536	3.00	4.17	4.54	1.00
Rio Riolo2	Rio Riolo2	349	TR30	7.30	266.05	267.95	266.92	268.00	0.001477	0.98	7.47	4.71	0.25
Rio Riolo2	Rio Riolo2	349	TR200	12.50	266.05	268.89	267.21	268.94	0.001534	1.05	11.90	4.71	0.21
Rio Riolo2	Rio Riolo2	320											
			Bridge										
Rio Riolo2	Rio Riolo2	306	TR30	7.30	265.91	267.69	266.92	267.78	0.003206	1.33	5.50	3.90	0.36
Rio Riolo2	Rio Riolo2	306	TR200	12.50	265.91	268.67	267.27	268.76	0.002355	1.34	9.32	3.90	0.28
Rio Riolo2	Rio Riolo2	268	TR30	7.30	265.67	267.58	266.80	267.73	0.006516	1.66	4.39	2.58	0.41
Rio Riolo2	Rio Riolo2	268	TR200	12.50	265.67	268.54	267.22	268.71	0.006274	1.82	6.86	2.58	0.36
Rio Riolo2	Rio Riolo2	200											
			Bridge										
Rio Riolo2	Rio Riolo2	196	TR30	7.30	265.38	266.51	266.51	267.04	0.036390	3.20	2.28	2.17	1.00
Rio Riolo2	Rio Riolo2	196	TR200	12.50	265.38	266.63	266.96	267.87	0.080465	4.93	2.54	2.18	1.46
Rio Riolo1	Rio Riolo1	1483	TR30	3.30	273.92	274.30	274.28	274.41	0.022130	1.47	2.24	8.93	0.94
Rio Riolo1	Rio Riolo1	1483	TR200	5.50	273.92	274.39	274.39	274.55	0.023108	1.78	3.08	9.48	1.00
Rio Riolo1	Rio Riolo1	862	TR30	3.30	269.43	269.85	269.85	270.00	0.024608	1.68	1.96	6.87	1.01
Rio Riolo1	Rio Riolo1	862	TR200	5.50	269.43	270.01	269.98	270.17	0.017188	1.78	3.09	7.55	0.89
Rio Riolo1	Rio Riolo1	610	TR30	3.30	267.92	268.45	268.37	268.53	0.011749	1.27	2.59	7.91	0.71
Rio Riolo1	Rio Riolo1	610	TR200	5.50	267.92	268.49	268.49	268.67	0.022787	1.87	2.94	8.25	1.00
Rio Riolo1	Rio Riolo1	237	TR30	3.30	265.69	266.70	266.49	266.77	0.006488	1.22	2.71	5.28	0.54
Rio Riolo1	Rio Riolo1	237	TR200	5.50	265.69	266.94	266.66	267.04	0.005413	1.36	4.04	5.40	0.50
Rio Riolo	Rio Riolo	9030	TR30	12.70	263.04	264.51	264.60	265.03	0.031880	3.18	4.00	5.34	1.17
Rio Riolo	Rio Riolo	9030	TR200	21.40	263.04	265.02	264.94	265.53	0.019218	3.18	6.74	5.44	0.91
Rio Riolo	Rio Riolo	8838	TR30	12.70	262.27	263.91	263.59	264.14	0.008700	2.15	5.91	5.22	0.65
Rio Riolo	Rio Riolo	8838	TR200	21.40	262.27	264.36	263.98	264.70	0.009597	2.59	8.25	5.22	0.66
Rio Riolo	Rio Riolo	8650	TR30	12.70	261.36	262.95	262.88	263.40	0.019861	2.96	4.29	4.05	0.92
Rio Riolo	Rio Riolo	8650	TR200	21.40	261.36	263.56	263.37	264.01	0.015043	2.97	7.21	5.16	0.80
Rio Riolo	Rio Riolo	8407	TR30	12.70	260.04	261.88	261.65	262.19	0.012916	2.47	5.15	4.83	0.76
Rio Riolo	Rio Riolo	8407	TR200	21.40	260.04	262.16	262.16	262.69	0.021264	3.24	6.61	6.19	1.00
Rio Riolo	Rio Riolo	8112	TR30	12.70	258.85	260.29	260.28	260.73	0.020609	2.96	4.29	4.75	0.99
Rio Riolo	Rio Riolo	8112	TR200	21.40	258.85	261.20	260.70	261.44	0.006632	2.20	9.72	6.24	0.56
Rio Riolo	Rio Riolo	7851	TR30	12.70	257.75	260.14	259.22	260.23	0.002162	1.28	9.95	6.74	0.34
Rio Riolo	Rio Riolo	7851	TR200	21.40	257.75	261.08	259.61	261.17	0.001543	1.31	16.29	6.74	0.27
Rio Riolo	Rio Riolo	7800											
			Bridge										
Rio Riolo	Rio Riolo	7786	TR30	12.70	257.77	259.21	259.21	259.67	0.021237	3.00	4.23	4.56	1.00
Rio Riolo	Rio Riolo	7786	TR200	21.40	257.77	259.23	259.64	260.48	0.057160	4.96	4.31	4.60	1.64
Rio Riolo	Rio Riolo	7440	TR30	12.70	256.48	258.13	257.73	258.29	0.005955	1.78	7.13	6.68	0.55
Rio Riolo	Rio Riolo	7440	TR200	21.40	256.48	258.58	258.07	258.81	0.006020	2.11	10.15	6.73	0.55
Rio Riolo	Rio Riolo	7033	TR30	12.70	254.78	256.56	256.56	256.95	0.023005	2.78	4.57	5.81	1.00
Rio Riolo	Rio Riolo	7033	TR200	21.40	254.78	256.88	256.88	257.44	0.023060	3.31	6.46	5.81	1.00
Rio Riolo	Rio Riolo	6898	TR30	14.50	254.16	256.01	255.51	256.14	0.004181	1.62	8.95	7.79	0.48
Rio Riolo	Rio Riolo	6898	TR200	24.20	254.16	256.42	255.84	256.62	0.004684	1.98	12.19	7.79	0.51
Rio Riolo	Rio Riolo	6837	TR30	14.50	254.16	255.51	255.51	255.90	0.019422	2.77	5.23	6.73	1.00
Rio Riolo	Rio Riolo	6837	TR200	24.20	254.16	255.83	255.83	256.36	0.018698	3.21	7.54	7.15	1.00
Rio Riolo	Rio Riolo	6615	TR30	14.50	253.26	254.13	253.89	254.24	0.005923	1.50	9.64	13.55	0.57
Rio Riolo	Rio Riolo	6615	TR200	24.20	253.26	253.88	254.10	254.60	0.058161	3.75	6.45	12.87	1.69
Rio Riolo	Rio Riolo	6593	TR30	14.50	253.26	254.02	253.89	254.18	0.009538	1.75	8.28	13.28	0.71
Rio Riolo	Rio Riolo	6593	TR200	24.20	253.26	254.21	254.10	254.47	0.011570	2.24	10.81	13.74	0.81
Rio Riolo	Rio Riolo	5205	TR30	14.50	249.21	251.07	250.58	251.19	0.005450	1.50	9.68	12.40	0.54
Rio Riolo	Rio Riolo	5205	TR200	24.20	249.21	251.45	250.99	251.59	0.004408	1.69	14.34	12.40	0.50
Rio Riolo	Rio Riolo	3655	TR30	14.50	246.18	248.13	247.78	248.31	0.006810	1.87	7.74	7.83	0.60
Rio Riolo	Rio Riolo	3655	TR200	24.20	246.18	248.42	248.14	248.72	0.008856	2.40	10.09	8.20	0.69
Rio Riolo	Rio Riolo	3546	TR30	16.30	246.28	248.08	247.52	248.16	0.002486	1.23	13.24	12.20	0.38
Rio Riolo	Rio Riolo	3546	TR200	27.00	246.28	248.37	247.79	248.50	0.003261	1.61	16.80	12.20	0.44

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio Riolo	Rio Riolo	2109	TR30	16.30	244.28	245.63	245.57	245.92	0.015369	2.40	6.80	9.59	0.91
Rio Riolo	Rio Riolo	2109	TR200	27.00	244.28	246.12	245.97	246.28	0.008898	1.84	15.54	26.03	0.70
Rio Riolo	Rio Riolo	863	TR30	16.30	242.60	244.58	243.75	244.63	0.001342	0.99	16.41	13.61	0.29
Rio Riolo	Rio Riolo	863	TR200	27.00	242.60	245.02	244.04	245.09	0.001543	1.19	22.67	15.56	0.32
Rio Riolo	Rio Riolo	819	TR30	16.30	242.49	244.50	243.86	244.60	0.003488	1.40	11.67	11.91	0.45
Rio Riolo	Rio Riolo	819	TR200	27.00	242.49	244.92	244.24	245.05	0.003172	1.62	16.70	12.00	0.44
Rio Riolo	Rio Riolo	167	TR30	16.30	241.58	243.35	243.04	243.58	0.007941	2.12	7.69	7.34	0.66
Rio Riolo	Rio Riolo	167	TR200	27.00	241.58	243.79	243.43	244.09	0.007946	2.40	11.23	8.83	0.68
Rio Matto2	Rio Matto2	1804	TR30	4.30	278.00	279.13	279.13	279.55	0.041078	2.88	1.49	1.76	1.00
Rio Matto2	Rio Matto2	1804	TR200	6.90	278.00	279.44	279.44	280.02	0.046156	3.37	2.05	1.76	1.00
Rio Matto2	Rio Matto2	1624	TR30	4.30	271.38	272.06	272.68	274.36	0.353394	6.71	0.64	1.44	3.21
Rio Matto2	Rio Matto2	1624	TR200	6.90	271.38	272.29	272.90	274.71	0.281349	6.90	1.00	1.76	2.92
Rio Matto2	Rio Matto2	1446	TR30	4.30	265.74	267.30	266.74	267.38	0.008629	1.30	3.30	6.00	0.56
Rio Matto2	Rio Matto2	1446	TR200	6.90	265.74	267.60	267.02	267.69	0.005572	1.34	5.16	6.09	0.46
Rio Matto2	Rio Matto2	1320											
Rio Matto2	Rio Matto2	1314	TR30	4.30	264.89	265.50	265.50	265.74	0.025628	2.16	1.99	4.21	1.00
Rio Matto2	Rio Matto2	1314	TR200	6.90	264.89	265.68	265.68	266.00	0.024514	2.49	2.77	4.38	1.00
Rio Matto2	Rio Matto2	902	TR30	4.30	261.78	262.71	262.63	262.84	0.016503	1.62	2.65	6.63	0.82
Rio Matto2	Rio Matto2	902	TR200	6.90	261.78	262.87	262.81	263.03	0.015693	1.79	3.86	8.07	0.82
Rio Matto2	Rio Matto2	474	TR30	4.30	259.03	259.97	259.97	260.25	0.023900	2.37	1.82	3.16	1.00
Rio Matto2	Rio Matto2	474	TR200	6.90	259.03	260.32	260.32	260.49	0.024747	1.81	3.80	11.34	1.00
Rio Matto2	Rio Matto2	48	TR30	4.30	255.88	257.51	256.77	257.56	0.002068	0.95	4.51	4.21	0.29
Rio Matto2	Rio Matto2	48	TR200	6.90	255.88	258.27	257.00	258.31	0.001113	0.86	8.03	4.74	0.21
Rio Matto2	Rio Matto2	5											
Rio Matto2	Rio Matto2	1	TR30	4.30	255.83	257.46	256.65	257.49	0.001198	0.77	5.60	5.66	0.25
Rio Matto2	Rio Matto2	1	TR200	6.90	255.83	258.11	256.87	258.13	0.000680	0.71	9.74	6.91	0.19
Rio Matto1	Rio Matto1	6323	TR30	12.85	255.26	257.03	256.86	257.34	0.013684	2.46	5.23	5.34	0.79
Rio Matto1	Rio Matto1	6323	TR200	20.70	255.26	257.84	257.22	258.05	0.005520	2.03	10.22	6.56	0.52
Rio Matto1	Rio Matto1	6063	TR30	12.85	254.56	256.65	256.04	256.76	0.003773	1.53	8.40	7.19	0.45
Rio Matto1	Rio Matto1	6063	TR200	20.70	254.56	257.73	256.38	257.81	0.001415	1.25	16.55	7.53	0.27
Rio Matto1	Rio Matto1	5792	TR30	12.85	253.99	256.31	255.41	256.44	0.003946	1.65	7.79	4.11	0.38
Rio Matto1	Rio Matto1	5792	TR200	20.70	253.99	257.51	255.79	257.65	0.002912	1.62	12.75	4.11	0.29
Rio Matto1	Rio Matto1	5709	TR30	12.85	253.45	256.23	255.03	256.35	0.004506	1.50	8.58	3.80	0.32
Rio Matto1	Rio Matto1	5709	TR200	20.70	253.45	257.45	255.42	257.57	0.003703	1.57	13.19	3.80	0.27
Rio Matto1	Rio Matto1	5680											
Rio Matto1	Rio Matto1	5651	TR30	12.85	253.45	255.61	255.04	255.83	0.008411	2.08	6.19	3.80	0.52
Rio Matto1	Rio Matto1	5651	TR200	20.70	253.45	256.39	255.43	256.65	0.009818	2.26	9.14	3.80	0.47
Rio Matto1	Rio Matto1	4460	TR30	12.85	249.84	251.22	251.20	251.61	0.018633	2.75	4.67	5.71	0.97
Rio Matto1	Rio Matto1	4460	TR200	20.70	249.84	251.55	251.55	252.03	0.018626	3.05	6.80	7.15	1.00
Rio Matto1	Rio Matto1	3120	TR30	15.20	246.76	248.80	248.21	248.92	0.003508	1.53	9.96	7.90	0.43
Rio Matto1	Rio Matto1	3120	TR200	24.30	246.76	250.00	248.53	250.08	0.001302	1.25	19.44	7.90	0.25
Rio Matto1	Rio Matto1	2979	TR30	15.20	246.73	248.22	248.22	248.59	0.019797	2.69	5.65	7.66	1.00
Rio Matto1	Rio Matto1	2979	TR200	24.30	246.73	249.96	248.51	250.02	0.001086	1.14	21.38	9.70	0.24
Rio Matto1	Rio Matto1	1062	TR30	15.20	244.00	247.77	245.44	247.78	0.000177	0.52	29.36	10.30	0.10
Rio Matto1	Rio Matto1	1062	TR200	24.30	244.00	249.86	245.71	249.87	0.000100	0.48	50.88	10.30	0.07
Rio Matto1	Rio Matto1	31	TR30	15.20	242.69	247.73	244.25	247.74	0.000095	0.42	36.33	9.40	0.07
Rio Matto1	Rio Matto1	31	TR200	24.30	242.69	249.83	244.63	249.84	0.000078	0.43	56.07	9.40	0.06
Rio Matto1	Rio Matto1	30	TR30	15.20	242.02	247.73	243.36	247.74	0.000076	0.38	39.79	7.80	0.05
Rio Matto1	Rio Matto1	30	TR200	24.30	242.02	249.83	243.63	249.84	0.000083	0.43	56.15	7.80	0.05
Rio Matto	Rio Matto	516	TR30	21.80	242.02	247.72	243.56	247.74	0.000158	0.55	39.72	7.80	0.08
Rio Matto	Rio Matto	516	TR200	34.90	242.02	249.82	243.90	249.84	0.000171	0.62	56.06	7.80	0.07
Rio Matto	Rio Matto	130	TR30	21.80	242.03	247.71	243.70	247.72	0.000100	0.47	46.75	9.80	0.07
Rio Matto	Rio Matto	130	TR200	34.90	242.03	249.81	244.03	249.82	0.000100	0.52	67.30	9.80	0.06
Rio Doccia6	Rio Doccia6	6	TR30	0.98	360.66	361.03	361.15	361.38	0.094065	2.63	0.37	1.67	1.78
Rio Doccia6	Rio Doccia6	6	TR200	1.58	360.66	361.12	361.27	361.57	0.094102	2.98	0.53	1.95	1.83
Rio Doccia6	Rio Doccia6	5	TR30	0.98	332.42	332.57	332.71	333.41	0.711649	4.07	0.24	2.81	4.45
Rio Doccia6	Rio Doccia6	5	TR200	1.58	332.42	332.60	332.78	333.70	0.699710	4.65	0.34	3.21	4.57
Rio Doccia6	Rio Doccia6	4	TR30	0.98	329.90	330.33	330.39	330.56	0.053888	2.10	0.46	1.92	1.36
Rio Doccia6	Rio Doccia6	4	TR200	1.58	329.90	330.42	330.51	330.73	0.055881	2.44	0.64	2.10	1.41
Rio Doccia6	Rio Doccia6	3	TR30	0.98	305.08	305.47	305.30	305.48	0.002847	0.56	1.74	6.30	0.34
Rio Doccia6	Rio Doccia6	3	TR200	1.58	305.08	305.24	305.36	305.82	0.439573	3.35	0.47	5.13	3.54
Rio Doccia6	Rio Doccia6	2.5											
Rio Doccia6	Rio Doccia6	2	TR30	0.98	305.08	305.30	305.30	305.38	0.030949	1.22	0.80	5.46	1.01
Rio Doccia6	Rio Doccia6	2	TR200	1.58	305.08	305.36	305.36	305.46	0.027541	1.39	1.13	5.77	1.00
Rio Doccia6	Rio Doccia6	1	TR30	0.98	290.08	290.23	290.31	290.52	0.267990	2.40	0.41	5.06	2.70
Rio Doccia6	Rio Doccia6	1	TR200	1.58	290.08	290.25	290.36	290.76	0.373353	3.19	0.49	5.15	3.28

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio Doccia5	Rio Doccia5	16	TR30	0.20	297.56	297.68	297.69	297.71	0.059244	0.84	0.26	6.13	1.18
Rio Doccia5	Rio Doccia5	16	TR200	0.32	297.56	297.70	297.71	297.74	0.059383	0.98	0.35	6.47	1.23
Rio Doccia5	Rio Doccia5	8	TR30	0.20	289.10	289.36	289.38	289.46	0.055753	1.41	0.14	1.05	1.25
Rio Doccia5	Rio Doccia5	8	TR200	0.32	289.10	289.41	289.44	289.54	0.054916	1.59	0.20	1.26	1.28
Rio Doccia4	Rio Doccia4	92	TR30	1.17	286.41	286.81	286.84	287.01	0.035062	1.94	0.60	1.96	1.12
Rio Doccia4	Rio Doccia4	92	TR200	1.89	286.41	286.95	286.97	287.18	0.032186	2.16	0.88	2.24	1.10
Rio Doccia4	Rio Doccia4	91	TR30	1.17	284.60	284.84	284.87	284.98	0.042120	1.67	0.70	3.64	1.22
Rio Doccia4	Rio Doccia4	91	TR200	1.89	284.60	284.90	284.95	285.12	0.049078	2.08	0.91	3.77	1.35
Rio Doccia4	Rio Doccia4	90	TR30	1.17	281.75	282.41	282.23	282.51	0.021552	1.45	0.81	1.95	0.72
Rio Doccia4	Rio Doccia4	90	TR200	1.89	281.75	282.60	282.45	282.73	0.018318	1.60	1.18	1.95	0.66
Rio Doccia4	Rio Doccia4	89.5		Bridge									
Rio Doccia4	Rio Doccia4	89	TR30	1.17	280.75	281.00	281.04	281.18	0.057879	1.88	0.62	3.29	1.38
Rio Doccia4	Rio Doccia4	89	TR200	1.89	280.75	281.05	281.14	281.34	0.070935	2.39	0.79	3.31	1.57
Rio Doccia2	Rio Doccia2	231	TR30	0.20	281.39	281.47	281.48	281.51	0.060106	0.86	0.23	4.26	1.20
Rio Doccia2	Rio Doccia2	231	TR200	0.32	281.39	281.49	281.51	281.54	0.060115	0.96	0.33	5.30	1.23
Rio Doccia2	Rio Doccia2	1	TR30	0.20	277.18	278.93	277.35	278.93	0.000007	0.05	3.66	2.61	0.01
Rio Doccia2	Rio Doccia2	1	TR200	0.32	277.18	279.64	277.40	279.64	0.000007	0.06	5.51	2.61	0.01
Rio Doccia1	Rio Doccia1	6870	TR30	3.90	277.18	278.86	278.06	278.92	0.003371	1.12	3.47	2.61	0.31
Rio Doccia1	Rio Doccia1	6870	TR200	6.30	277.18	279.56	278.33	279.63	0.002969	1.19	5.30	2.61	0.27
Rio Doccia1	Rio Doccia1	6865		Bridge									
Rio Doccia1	Rio Doccia1	6864	TR30	3.90	277.11	277.81	278.11	278.79	0.128245	4.38	0.89	1.78	1.98
Rio Doccia1	Rio Doccia1	6864	TR200	6.30	277.11	277.98	278.39	279.36	0.145313	5.20	1.21	1.99	2.13
Rio Doccia1	Rio Doccia1	6657	TR30	3.90	275.31	275.93	275.93	276.16	0.022670	2.14	1.82	3.86	0.99
Rio Doccia1	Rio Doccia1	6657	TR200	6.30	275.31	276.12	276.12	276.42	0.021514	2.42	2.60	4.32	1.00
Rio Doccia1	Rio Doccia1	6469	TR30	3.90	273.27	275.18	274.20	275.21	0.001021	0.73	5.31	4.00	0.20
Rio Doccia1	Rio Doccia1	6469	TR200	6.30	273.27	275.52	274.44	275.56	0.001450	0.95	6.65	4.00	0.23
Rio Doccia1	Rio Doccia1	6450		Culvert									
Rio Doccia1	Rio Doccia1	6441	TR30	3.90	272.85	274.26	273.69	274.32	0.002765	1.05	3.73	4.03	0.35
Rio Doccia1	Rio Doccia1	6441	TR200	6.30	272.85	274.48	273.92	274.58	0.003953	1.35	4.66	4.32	0.42
Rio Doccia1	Rio Doccia1	6379	TR30	3.90	272.51	274.24	273.31	274.27	0.001410	0.83	4.70	3.48	0.23
Rio Doccia1	Rio Doccia1	6379	TR200	6.30	272.51	274.44	273.54	274.51	0.002532	1.17	5.41	3.48	0.30
Rio Doccia1	Rio Doccia1	6300		Culvert									
Rio Doccia1	Rio Doccia1	6266	TR30	3.90	270.76	271.74	271.74	272.04	0.026243	2.44	1.60	2.64	1.00
Rio Doccia1	Rio Doccia1	6266	TR200	6.30	270.76	271.99	271.99	272.36	0.024735	2.69	2.34	3.16	1.00
Rio Doccia1	Rio Doccia1	5967	TR30	3.90	268.23	269.07	269.13	269.40	0.031589	2.55	1.53	2.99	1.14
Rio Doccia1	Rio Doccia1	5967	TR200	6.30	268.23	269.26	269.35	269.71	0.034283	2.96	2.13	3.48	1.21
Rio Doccia1	Rio Doccia1	5711	TR30	3.90	265.89	267.03	266.80	267.16	0.009209	1.62	2.41	3.57	0.63
Rio Doccia1	Rio Doccia1	5711	TR200	6.30	265.89	267.51	267.03	267.61	0.004784	1.42	4.43	4.80	0.47
Rio Doccia1	Rio Doccia1	5700		Bridge									
Rio Doccia1	Rio Doccia1	5662	TR30	3.90	265.62	266.45	266.53	266.81	0.036528	2.68	1.46	2.90	1.21
Rio Doccia1	Rio Doccia1	5662	TR200	6.30	265.62	266.56	266.76	267.18	0.053997	3.50	1.80	3.22	1.49
Rio Doccia1	Rio Doccia1	5333	TR30	3.90	263.45	264.72	264.63	264.93	0.020321	2.05	1.90	3.11	0.84
Rio Doccia1	Rio Doccia1	5333	TR200	6.30	263.45	264.92	264.88	265.23	0.022781	2.44	2.58	3.44	0.90
Rio Doccia1	Rio Doccia1	4970	TR30	3.90	261.34	262.27	262.27	262.48	0.024108	2.03	1.92	4.53	1.00
Rio Doccia1	Rio Doccia1	4970	TR200	6.30	261.34	262.45	262.45	262.70	0.022568	2.23	2.83	5.55	0.99
Rio Doccia1	Rio Doccia1	4718	TR30	3.90	259.02	260.12	260.13	260.42	0.029521	2.45	1.59	2.73	1.03
Rio Doccia1	Rio Doccia1	4718	TR200	6.30	259.02	260.35	260.38	260.73	0.028992	2.71	2.33	3.49	1.06
Rio Doccia1	Rio Doccia1	4670	TR30	3.90	257.35	257.90	258.26	259.56	0.316573	5.71	0.68	2.37	3.40
Rio Doccia1	Rio Doccia1	4670	TR200	6.30	257.35	258.03	258.46	259.89	0.266917	6.04	1.04	2.93	3.23
Rio Doccia1	Rio Doccia1	4634		Culvert									
Rio Doccia1	Rio Doccia1	4598	TR30	3.90	257.35	258.11	258.26	258.59	0.061005	3.08	1.27	3.23	1.57
Rio Doccia1	Rio Doccia1	4598	TR200	6.30	257.35	258.31	258.46	258.81	0.046486	3.13	2.01	4.09	1.42
Rio Doccia1	Rio Doccia1	3257	TR30	3.90	250.85	251.56	251.18	251.58	0.001617	0.70	5.60	9.33	0.29
Rio Doccia1	Rio Doccia1	3257	TR200	6.30	250.85	251.76	251.29	251.79	0.001726	0.84	7.54	9.98	0.31
Rio Doccia1	Rio Doccia1	3215		Bridge									
Rio Doccia1	Rio Doccia1	3172	TR30	5.00	250.85	251.46	251.23	251.52	0.004434	1.06	4.73	9.02	0.47
Rio Doccia1	Rio Doccia1	3172	TR200	8.00	250.85	251.64	251.36	251.72	0.004506	1.25	6.42	9.61	0.49
Rio Doccia1	Rio Doccia1	1907	TR30	5.00	247.59	248.05	248.05	248.19	0.023643	1.68	2.97	10.22	1.00
Rio Doccia1	Rio Doccia1	1907	TR200	8.00	247.59	248.16	248.16	248.35	0.023950	1.90	4.21	12.17	1.03
Rio Doccia1	Rio Doccia1	61	TR30	5.00	242.70	244.65	243.39	244.67	0.000661	0.66	7.60	4.86	0.17
Rio Doccia1	Rio Doccia1	61	TR200	8.00	242.70	245.59	243.61	245.61	0.000478	0.66	12.16	4.86	0.13
Rio Doccia1	Rio Doccia1	45		Bridge									
Rio Doccia1	Rio Doccia1	28	TR30	5.00	242.70	244.58	243.39	244.60	0.000754	0.69	7.24	4.85	0.18
Rio Doccia1	Rio Doccia1	28	TR200	8.00	242.70	245.56	243.61	245.58	0.000494	0.67	12.01	4.86	0.14
Rio Doccia	Rio Doccia	84	TR30	24.70	241.56	244.51	243.25	244.59	0.001489	1.21	20.41	12.18	0.30

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	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)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Rio Doccia	Rio Doccia	84	TR200	40.10	241.56	245.49	243.79	245.57	0.001002	1.24	32.33	12.18	0.24
Rio Doccia	Rio Doccia	83	TR30	24.70	241.13	244.04	242.57	244.12	0.001282	1.25	19.83	8.10	0.25
Rio Doccia	Rio Doccia	83	TR200	40.10	241.13	245.08	242.95	245.18	0.001280	1.42	28.27	8.10	0.24
Rio di Pigli	Rio di Pigli	12808	TR30	5.10	445.34	446.08	446.23	446.59	0.050021	3.17	1.61	3.29	1.45
Rio di Pigli	Rio di Pigli	12808	TR200	8.40	445.34	446.27	446.48	446.95	0.050015	3.65	2.30	3.73	1.48
Rio di Pigli	Rio di Pigli	11252	TR30	12.10	378.77	379.62	380.26	382.43	0.253132	7.43	1.63	3.05	3.24
Rio di Pigli	Rio di Pigli	11252	TR200	20.00	378.77	379.84	380.68	383.49	0.246616	8.46	2.36	3.45	3.27
Rio di Pigli	Rio di Pigli	9488	TR30	12.10	327.80	328.79	329.02	329.55	0.051032	3.86	3.13	5.04	1.56
Rio di Pigli	Rio di Pigli	9488	TR200	20.00	327.80	329.04	329.35	330.08	0.052177	4.53	4.42	5.57	1.62
Rio di Pigli	Rio di Pigli	8779	TR30	14.85	311.44	312.40	312.88	313.96	0.100318	5.53	2.68	3.87	2.12
Rio di Pigli	Rio di Pigli	8779	TR200	24.45	311.44	312.70	313.31	314.67	0.095457	6.21	3.94	4.50	2.12
Rio di Pigli	Rio di Pigli	8525	TR30	14.85	307.03	308.38	308.49	308.83	0.041364	2.98	4.99	9.71	1.33
Rio di Pigli	Rio di Pigli	8525	TR200	24.45	307.03	308.54	308.73	309.25	0.046407	3.72	6.58	9.71	1.44
Rio di Pigli	Rio di Pigli	8341	TR30	14.85	304.80	306.20	306.32	306.83	0.029765	3.51	4.23	4.77	1.19
Rio di Pigli	Rio di Pigli	8341	TR200	24.45	304.80	306.70	306.78	307.20	0.027096	3.13	7.82	10.48	1.16
Rio di Pigli	Rio di Pigli	8041	TR30	14.85	299.39	300.30	300.81	302.01	0.116100	5.79	2.56	3.92	2.29
Rio di Pigli	Rio di Pigli	8041	TR200	24.45	299.39	300.59	301.22	302.71	0.108695	6.45	3.79	4.62	2.27
Rio di Pigli	Rio di Pigli	7809	TR30	14.85	290.71	291.57	292.11	293.41	0.125155	6.00	2.48	3.45	2.26
Rio di Pigli	Rio di Pigli	7809	TR200	24.45	290.71	291.86	292.59	294.32	0.126615	6.95	3.52	3.75	2.29
Rio di Pigli	Rio di Pigli	7568	TR30	14.85	289.24	291.08	290.59	291.41	0.012141	2.54	5.84	3.35	0.61
Rio di Pigli	Rio di Pigli	7568	TR200	24.45	289.24	291.82	291.10	292.26	0.013198	2.93	8.33	3.39	0.60
Rio di Pigli	Rio di Pigli	7560		Bridge									
Rio di Pigli	Rio di Pigli	7525	TR30	14.85	289.09	290.39	290.39	291.04	0.031962	3.57	4.16	3.22	1.00
Rio di Pigli	Rio di Pigli	7525	TR200	24.45	289.09	290.63	290.91	291.89	0.055022	4.98	4.91	3.23	1.29
Rio di Pigli	Rio di Pigli	7203	TR30	14.85	282.32	283.14	283.64	284.99	0.153659	6.03	2.46	4.77	2.68
Rio di Pigli	Rio di Pigli	7203	TR200	24.45	282.32	283.49	283.99	285.11	0.087629	5.65	4.33	5.96	2.12
Rio di Pigli	Rio di Pigli	7048	TR30	14.85	281.53	282.76	282.76	283.12	0.021168	2.62	5.66	8.13	1.01
Rio di Pigli	Rio di Pigli	7048	TR200	24.45	281.53	283.06	283.06	283.51	0.019206	2.97	8.23	9.10	1.00
Rio di Pigli	Rio di Pigli	6773	TR30	14.85	279.27	279.67	279.81	280.14	0.070323	3.04	4.88	15.36	1.72
Rio di Pigli	Rio di Pigli	6773	TR200	24.45	279.27	279.76	279.99	280.53	0.083876	3.89	6.28	15.50	1.95
Rio di Pigli	Rio di Pigli	6543	TR30	17.60	276.05	277.61	277.61	277.96	0.020499	2.60	6.78	9.88	1.00
Rio di Pigli	Rio di Pigli	6543	TR200	28.90	276.05	277.90	277.90	278.34	0.019089	2.93	9.87	11.38	1.00
Rio di Pigli	Rio di Pigli	6263	TR30	17.60	273.19	274.90	275.08	275.67	0.034194	3.89	4.52	4.55	1.25
Rio di Pigli	Rio di Pigli	6263	TR200	28.90	273.19	275.37	275.56	276.26	0.029900	4.18	6.91	5.59	1.20
Rio di Pigli	Rio di Pigli	5933	TR30	17.60	269.38	272.48	271.16	272.58	0.002341	1.45	12.15	5.33	0.31
Rio di Pigli	Rio di Pigli	5933	TR200	28.90	269.38	273.02	271.64	273.21	0.003585	1.92	15.05	5.33	0.36
Rio di Pigli	Rio di Pigli	5900		Bridge									
Rio di Pigli	Rio di Pigli	5886	TR30	17.60	269.26	270.26	270.69	271.64	0.085885	5.20	3.39	5.12	2.04
Rio di Pigli	Rio di Pigli	5886	TR200	28.90	269.26	270.52	271.08	272.39	0.087608	6.05	4.78	5.73	2.12
Rio di Pigli	Rio di Pigli	5590	TR30	17.60	266.43	268.55	268.55	269.11	0.022652	3.32	5.31	4.70	1.00
Rio di Pigli	Rio di Pigli	5590	TR200	28.90	266.43	269.07	269.07	269.72	0.021323	3.57	8.09	6.19	1.00
Rio di Pigli	Rio di Pigli	5408	TR30	17.60	265.68	267.74	267.56	268.12	0.013202	2.71	6.50	5.62	0.80
Rio di Pigli	Rio di Pigli	5408	TR200	28.90	265.68	268.49	268.06	268.75	0.007078	2.27	12.74	8.80	0.60
Rio di Pigli	Rio di Pigli	5259	TR30	17.60	264.72	267.37	266.47	267.62	0.007684	2.20	7.99	3.54	0.47
Rio di Pigli	Rio di Pigli	5259	TR200	28.90	264.72	267.84	267.01	268.30	0.012748	2.99	9.67	3.54	0.58
Rio di Pigli	Rio di Pigli	5240		Bridge									
Rio di Pigli	Rio di Pigli	5235	TR30	17.60	264.30	265.85	266.34	267.25	0.070249	5.26	3.35	2.90	1.56
Rio di Pigli	Rio di Pigli	5235	TR200	28.90	264.30	266.46	266.89	267.95	0.068216	5.41	5.35	4.37	1.56
Rio di Pigli	Rio di Pigli	4900	TR30	17.60	260.51	263.16	262.10	263.35	0.005078	1.93	9.11	3.95	0.41
Rio di Pigli	Rio di Pigli	4900	TR200	28.90	260.51	264.48	262.62	264.69	0.004414	2.02	14.33	3.95	0.34
Rio di Pigli	Rio di Pigli	4861		Bridge									
Rio di Pigli	Rio di Pigli	4822	TR30	17.60	260.51	262.10	262.10	262.75	0.025996	3.57	4.93	3.77	1.00
Rio di Pigli	Rio di Pigli	4822	TR200	28.90	260.51	262.62	262.62	263.50	0.027666	4.15	6.96	3.95	1.00
Rio di Pigli	Rio di Pigli	3771	TR30	17.60	251.34	252.65	252.84	253.35	0.036884	3.71	4.74	6.36	1.37
Rio di Pigli	Rio di Pigli	3771	TR200	28.90	251.34	252.96	253.23	253.85	0.036195	4.18	6.92	7.68	1.40
Rio di Pigli	Rio di Pigli	3684	TR30	18.65	250.68	252.45	252.12	252.67	0.007049	2.05	9.10	8.57	0.63
Rio di Pigli	Rio di Pigli	3684	TR200	30.55	250.68	252.88	252.49	253.16	0.006988	2.34	13.07	9.92	0.65
Rio di Pigli	Rio di Pigli	2393	TR30	18.65	246.33	247.91	247.91	248.35	0.019044	2.95	6.33	7.12	1.00
Rio di Pigli	Rio di Pigli	2393	TR200	30.55	246.33	248.26	248.26	248.86	0.019007	3.45	8.85	7.30	1.00
Rio di Pigli	Rio di Pigli	1064	TR30	18.65	242.80	246.48	244.13	246.49	0.000122	0.43	43.00	19.98	0.09
Rio di Pigli	Rio di Pigli	1064	TR200	30.55	242.80	247.82	244.43	247.83	0.000076	0.44	69.84	19.98	0.07
Rio di Pigli	Rio di Pigli	1050		Culvert									
Rio di Pigli	Rio di Pigli	1035	TR30	19.70	242.80	245.14	244.16	245.19	0.001194	1.00	19.67	14.60	0.28
Rio di Pigli	Rio di Pigli	1035	TR200	32.10	242.80	245.84	244.46	245.90	0.000905	1.04	30.92	17.59	0.25
Rio di Pigli	Rio di Pigli	41	TR30	19.70	241.38	244.93	243.23	244.96	0.000506	0.79	25.00	12.51	0.18
Rio di Pigli	Rio di Pigli	41	TR200	32.10	241.38	245.63	243.62	245.68	0.000553	0.95	33.82	12.51	0.18

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio di Pigli	Rio di Pigli	27		Culvert									
Rio di Pigli	Rio di Pigli	12	TR30	19.70	241.38	244.56	243.23	244.61	0.000927	0.96	20.44	12.51	0.24
Rio di Pigli	Rio di Pigli	12	TR200	32.10	241.38	245.54	243.62	245.59	0.000614	0.98	32.62	12.51	0.19
Rio dell'Olmo1	Rio dell'Olmo1	11252	TR30	1.30	333.61	333.88	333.88	333.96	0.028056	1.27	1.02	6.07	0.99
Rio dell'Olmo1	Rio dell'Olmo1	11252	TR200	2.00	333.61	333.93	333.93	334.04	0.027103	1.43	1.39	6.74	1.01
Rio dell'Olmo1	Rio dell'Olmo1	10122	TR30	1.30	290.18	290.50	290.50	290.63	0.026748	1.57	0.83	3.34	1.00
Rio dell'Olmo1	Rio dell'Olmo1	10122	TR200	2.00	290.18	290.59	290.59	290.75	0.024838	1.76	1.13	3.57	1.00
Rio dell'Olmo1	Rio dell'Olmo1	9206	TR30	1.30	273.01	273.33	273.51	274.02	0.240552	3.68	0.35	2.04	2.83
Rio dell'Olmo1	Rio dell'Olmo1	9206	TR200	2.00	273.01	273.38	273.61	274.38	0.284735	4.44	0.45	2.22	3.15
Rio dell'Olmo1	Rio dell'Olmo1	7220	TR30	1.30	257.14	258.77	257.60	258.77	0.000113	0.24	5.43	4.71	0.07
Rio dell'Olmo1	Rio dell'Olmo1	7220	TR200	2.00	257.14	259.20	257.72	259.20	0.000110	0.27	7.45	4.71	0.07
Rio dell'Olmo1	Rio dell'Olmo1	7209		Bridge									
Rio dell'Olmo1	Rio dell'Olmo1	7198	TR30	11.30	257.14	258.75	258.45	258.98	0.009023	2.12	5.32	4.71	0.64
Rio dell'Olmo1	Rio dell'Olmo1	7198	TR200	17.70	257.14	259.14	258.75	259.45	0.009482	2.46	7.20	4.71	0.63
Rio dell'Olmo1	Rio dell'Olmo1	7098	TR30	11.30	256.47	258.08	258.08	258.54	0.024818	3.01	3.75	4.06	1.00
Rio dell'Olmo1	Rio dell'Olmo1	7098	TR200	17.70	256.47	258.43	258.43	259.00	0.024330	3.36	5.27	4.59	1.00
Rio dell'Olmo1	Rio dell'Olmo1	6988	TR30	11.30	254.88	257.52	256.18	257.55	0.000669	0.77	14.64	9.62	0.20
Rio dell'Olmo1	Rio dell'Olmo1	6988	TR200	17.70	254.88	257.96	256.47	258.01	0.000780	0.94	18.85	9.62	0.21
Rio dell'Olmo1	Rio dell'Olmo1	6980		Culvert									
Rio dell'Olmo1	Rio dell'Olmo1	6962	TR30	11.30	254.82	257.09	256.59	257.19	0.004404	1.42	7.97	8.80	0.48
Rio dell'Olmo1	Rio dell'Olmo1	6962	TR200	17.70	254.82	257.43	256.89	257.56	0.004086	1.62	10.95	8.87	0.46
Rio dell'Olmo1	Rio dell'Olmo1	6782	TR30	15.90	254.21	256.21	256.21	256.64	0.021248	2.91	5.47	6.35	1.00
Rio dell'Olmo1	Rio dell'Olmo1	6782	TR200	24.75	254.21	256.56	256.56	257.04	0.019831	3.09	8.02	8.25	1.00
Rio dell'Olmo1	Rio dell'Olmo1	6610	TR30	15.90	253.85	255.55	255.24	255.76	0.007399	2.05	7.76	7.27	0.63
Rio dell'Olmo1	Rio dell'Olmo1	6610	TR200	24.75	253.85	256.03	255.54	256.26	0.006081	2.14	11.54	8.55	0.59
Rio dell'Olmo1	Rio dell'Olmo1	6283	TR30	15.90	252.52	255.18	254.38	255.29	0.002922	1.45	10.95	7.63	0.39
Rio dell'Olmo1	Rio dell'Olmo1	6283	TR200	24.75	252.52	255.68	254.71	255.82	0.002959	1.67	14.81	7.72	0.39
Rio dell'Olmo1	Rio dell'Olmo1	6230		Culvert									
Rio dell'Olmo1	Rio dell'Olmo1	6228	TR30	15.90	252.33	254.51	254.06	254.66	0.005721	1.73	9.19	9.11	0.55
Rio dell'Olmo1	Rio dell'Olmo1	6228	TR200	24.75	252.33	254.84	254.37	255.04	0.006282	1.97	12.56	11.11	0.59
Rio dell'Olmo1	Rio dell'Olmo1	5967	TR30	15.90	251.41	253.59	253.50	253.92	0.016627	2.55	6.24	7.21	0.87
Rio dell'Olmo1	Rio dell'Olmo1	5967	TR200	24.75	251.41	254.01	253.83	254.35	0.012245	2.57	9.62	8.75	0.78
Rio dell'Olmo1	Rio dell'Olmo1	5631	TR30	15.90	250.45	252.43	252.12	252.68	0.008851	2.22	7.15	6.52	0.68
Rio dell'Olmo1	Rio dell'Olmo1	5631	TR200	24.75	250.45	252.66	252.47	253.07	0.012446	2.84	8.72	7.04	0.81
Rio dell'Olmo1	Rio dell'Olmo1	5345	TR30	15.90	249.60	251.64	251.23	251.84	0.010236	1.95	8.16	10.85	0.72
Rio dell'Olmo1	Rio dell'Olmo1	5345	TR200	24.75	249.60	252.02	251.72	252.22	0.006861	1.96	12.66	11.89	0.61
Rio dell'Olmo1	Rio dell'Olmo1	4983	TR30	15.90	249.06	251.12	250.47	251.23	0.003196	1.45	11.00	8.93	0.42
Rio dell'Olmo1	Rio dell'Olmo1	4983	TR200	24.75	249.06	251.59	250.81	251.72	0.002984	1.63	15.14	8.93	0.40
Rio dell'Olmo1	Rio dell'Olmo1	4640	TR30	15.90	248.57	250.91	249.93	250.98	0.001768	1.18	13.46	9.54	0.32
Rio dell'Olmo1	Rio dell'Olmo1	4640	TR200	24.75	248.57	251.37	250.30	251.47	0.001832	1.38	17.93	9.54	0.32
Rio dell'Olmo1	Rio dell'Olmo1	4620		Culvert									
Rio dell'Olmo1	Rio dell'Olmo1	4603	TR30	15.90	248.50	249.98	249.94	250.36	0.016674	2.74	5.81	6.69	0.94
Rio dell'Olmo1	Rio dell'Olmo1	4603	TR200	24.75	248.50	250.27	250.24	250.78	0.016760	3.13	7.90	7.27	0.96
Rio dell'Olmo1	Rio dell'Olmo1	4431	TR30	15.90	248.05	249.70	249.29	249.85	0.005077	1.70	9.36	9.21	0.54
Rio dell'Olmo1	Rio dell'Olmo1	4431	TR200	24.75	248.05	250.05	249.57	250.25	0.004957	1.95	12.72	9.51	0.54
Rio dell'Olmo1	Rio dell'Olmo1	4120	TR30	15.90	247.36	249.39	248.76	249.47	0.002872	1.27	12.54	12.87	0.41
Rio dell'Olmo1	Rio dell'Olmo1	4120	TR200	24.75	247.36	249.82	249.03	249.91	0.002220	1.35	18.31	13.41	0.37
Rio dell'Olmo1	Rio dell'Olmo1	3798	TR30	20.50	246.94	249.00	248.43	249.14	0.003779	1.63	12.59	10.19	0.47
Rio dell'Olmo1	Rio dell'Olmo1	3798	TR200	31.80	246.94	249.46	248.73	249.63	0.003538	1.83	17.38	10.62	0.46
Rio dell'Olmo1	Rio dell'Olmo1	3465	TR30	20.50	246.46	248.56	248.04	248.72	0.004474	1.76	11.67	9.60	0.51
Rio dell'Olmo1	Rio dell'Olmo1	3465	TR200	31.80	246.46	249.07	248.36	249.25	0.003924	1.89	16.86	10.93	0.48
Rio dell'Olmo1	Rio dell'Olmo1	3140	TR30	20.50	246.00	248.23	247.50	248.35	0.002936	1.55	13.24	9.38	0.42
Rio dell'Olmo1	Rio dell'Olmo1	3140	TR200	31.80	246.00	248.76	247.84	248.92	0.002759	1.75	18.22	9.38	0.40
Rio dell'Olmo1	Rio dell'Olmo1	2812	TR30	20.50	245.60	247.99	247.16	248.09	0.002265	1.41	14.50	9.43	0.36
Rio dell'Olmo1	Rio dell'Olmo1	2812	TR200	31.80	245.60	248.53	247.49	248.66	0.002262	1.62	19.59	9.43	0.36
Rio dell'Olmo1	Rio dell'Olmo1	2484	TR30	20.50	245.42	247.85	246.91	247.91	0.001333	1.10	18.59	11.73	0.28
Rio dell'Olmo1	Rio dell'Olmo1	2484	TR200	31.80	245.42	248.40	247.16	248.48	0.001316	1.27	25.03	11.73	0.28
Rio dell'Olmo1	Rio dell'Olmo1	2292	TR30	20.50	245.37	247.63	247.04	247.78	0.003873	1.68	12.18	8.50	0.45
Rio dell'Olmo1	Rio dell'Olmo1	2292	TR200	31.80	245.37	248.16	247.32	248.35	0.003700	1.91	16.68	8.50	0.43
Rio dell'Olmo1	Rio dell'Olmo1	2228	TR30	20.50	245.32	247.60	246.82	247.71	0.002571	1.47	13.95	8.70	0.37
Rio dell'Olmo1	Rio dell'Olmo1	2228	TR200	31.80	245.32	248.13	247.10	248.28	0.002694	1.71	18.56	8.70	0.37
Rio dell'Olmo1	Rio dell'Olmo1	862	TR30	20.50	243.40	247.50	244.78	247.51	0.000156	0.54	38.10	11.90	0.10
Rio dell'Olmo1	Rio dell'Olmo1	862	TR200	31.80	243.40	247.96	245.09	247.99	0.000255	0.73	43.66	11.90	0.12
Rio dell'Olmo	Rio dell'Olmo	843	TR30	31.20	245.96	247.00	246.88	247.23	0.010834	2.12	14.72	19.56	0.78
Rio dell'Olmo	Rio dell'Olmo	843	TR200	48.90	245.96	247.19	247.11	247.54	0.012870	2.64	18.56	20.15	0.88

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	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)	Flow Area (m ²)	Top Width (m)	Froude # Chl
Rio dell'Olmo	Rio dell'Olmo	795	TR30	31.20	245.93	246.78	246.74	247.03	0.015542	2.23	13.99	22.92	0.91
Rio dell'Olmo	Rio dell'Olmo	795	TR200	48.90	245.93	247.02	246.96	247.33	0.013893	2.46	19.91	25.90	0.89
Rio dell'Olmo	Rio dell'Olmo	225	TR30	31.20	241.78	243.63	243.63	244.16	0.017195	3.24	9.64	8.98	1.00
Rio dell'Olmo	Rio dell'Olmo	225	TR200	48.90	241.78	244.06	244.06	244.69	0.016301	3.51	13.95	11.09	1.00
Lama	Lama	5903	TR30	3.10	380.22	380.79	380.94	381.25	0.069379	3.01	1.03	3.03	1.65
Lama	Lama	5903	TR200	5.10	380.22	380.93	381.12	381.53	0.069341	3.45	1.48	3.51	1.70
Lama	Lama	4633	TR30	3.10	317.02	317.65	317.65	317.86	0.023604	2.06	1.51	3.45	1.00
Lama	Lama	4633	TR200	5.10	317.02	317.38	317.83	320.27	0.651767	7.53	0.68	2.77	4.86
Lama	Lama	4338	TR30	3.10	306.91	307.25	307.74	311.11	0.999143	8.70	0.36	1.52	5.74
Lama	Lama	4338	TR200	5.10	306.91	307.80	307.96	308.35	0.051028	3.31	1.54	2.83	1.43
Lama	Lama	3958	TR30	3.10	296.68	297.69	297.72	298.02	0.036997	2.57	1.21	2.13	1.09
Lama	Lama	3958	TR200	5.10	296.68	297.60	297.99	298.85	0.151126	4.94	1.03	1.96	2.17
Lama	Lama	3677	TR30	3.10	292.72	293.45	293.61	293.95	0.062792	3.14	0.99	2.29	1.53
Lama	Lama	3677	TR200	5.10	292.72	293.82	293.83	294.14	0.025782	2.54	2.01	3.23	1.03
Lama	Lama	3659	TR30	3.10	290.58	292.28	291.51	292.31	0.001868	0.83	3.74	3.31	0.25
Lama	Lama	3659	TR200	5.10	290.58	292.64	291.72	292.69	0.002369	1.03	4.93	3.31	0.27
Lama	Lama	3650		Culvert									
Lama	Lama	3625	TR30	3.10	290.55	291.41	291.41	291.74	0.033627	2.55	1.22	1.84	1.00
Lama	Lama	3625	TR200	5.10	290.55	291.76	291.76	292.02	0.027239	2.26	2.26	4.32	1.00
Lama	Lama	3292	TR30	6.20	285.38	286.42	286.66	287.01	0.054940	3.41	1.82	3.29	1.46
Lama	Lama	3292	TR200	10.20	285.38	286.67	286.87	287.31	0.062960	3.53	2.89	5.91	1.61
Lama	Lama	2967	TR30	6.20	279.78	282.44	280.84	282.46	0.000406	0.50	12.39	9.66	0.14
Lama	Lama	2967	TR200	10.20	279.78	282.41	281.18	282.44	0.001210	0.85	12.01	9.66	0.24
Lama	Lama	2940		Bridge									
Lama	Lama	2930	TR30	6.20	279.58	280.18	280.59	282.12	0.333781	6.17	1.01	3.27	3.55
Lama	Lama	2930	TR200	10.20	279.58	280.36	280.83	282.30	0.214785	6.17	1.65	3.81	2.99
Lama	Lama	2613	TR30	6.20	276.57	277.45	277.45	277.80	0.025349	2.62	2.36	3.43	1.01
Lama	Lama	2613	TR200	10.20	276.57	277.73	277.73	278.20	0.025722	3.05	3.34	3.55	1.00
Lama	Lama	2280	TR30	6.20	273.17	273.96	274.10	274.48	0.043202	3.18	1.95	3.42	1.34
Lama	Lama	2280	TR200	10.20	273.17	274.20	274.37	274.88	0.042430	3.63	2.81	3.77	1.34
Lama	Lama	1833	TR30	6.20	267.50	268.51	268.62	269.00	0.036754	3.09	2.01	3.13	1.23
Lama	Lama	1833	TR200	10.20	267.50	268.77	269.08	269.40	0.037201	3.52	2.90	3.70	1.27
Lama	Lama	1562	TR30	6.20	264.63	266.42	265.34	266.43	0.000323	0.47	13.18	10.14	0.13
Lama	Lama	1562	TR200	10.20	264.63	266.67	265.53	266.69	0.000515	0.65	15.70	10.14	0.17
Lama	Lama	1400		Bridge									
Lama	Lama	1350	TR30	6.20	264.23	264.85	265.14	266.06	0.232930	4.87	1.27	4.54	2.94
Lama	Lama	1350	TR200	10.20	264.23	265.92	265.33	266.00	0.002731	1.26	8.11	6.95	0.37
Lama	Lama	1340	TR30	6.20	263.13	265.43	264.14	265.47	0.001072	0.85	7.33	3.84	0.20
Lama	Lama	1340	TR200	10.20	263.13	265.88	264.42	265.95	0.001688	1.13	9.05	3.84	0.23
Lama	Lama	1330		Culvert									
Lama	Lama	1320	TR30	6.20	263.13	265.28	264.14	265.32	0.001332	0.92	6.75	3.84	0.22
Lama	Lama	1320	TR200	10.20	263.13	265.74	264.42	265.82	0.001966	1.20	8.53	3.84	0.26
Lama	Lama	1300	TR30	6.20	263.13	265.23	264.14	265.28	0.001433	0.94	6.56	3.84	0.23
Lama	Lama	1300	TR200	10.20	263.13	265.67	264.42	265.75	0.002142	1.24	8.25	3.84	0.27
Lama	Lama	1298		Culvert									
Lama	Lama	1297	TR30	6.20	263.13	264.30	264.14	264.52	0.012715	2.08	2.98	3.82	0.75
Lama	Lama	1297	TR200	10.20	263.13	264.63	264.42	264.93	0.012529	2.39	4.26	3.84	0.73
Lama	Lama	778	TR30	6.20	259.63	260.88	260.88	261.33	0.032943	2.96	2.09	2.34	1.00
Lama	Lama	778	TR200	10.20	259.63	261.33	261.33	261.83	0.031280	3.12	3.27	3.28	1.00
Lama	Lama	449	TR30	6.20	257.87	259.53	258.91	259.61	0.003678	1.31	4.75	4.49	0.41
Lama	Lama	449	TR200	10.20	257.87	260.78	259.21	260.83	0.001077	0.95	10.75	4.81	0.20
Lama	Lama	420		Bridge									
Lama	Lama	418	TR30	6.20	257.47	258.62	258.40	258.79	0.009522	1.86	3.34	4.18	0.66
Lama	Lama	418	TR200	10.20	257.47	258.27	258.67	259.60	0.107696	5.10	2.00	3.56	2.17
Lama	Lama	44	TR30	6.20	256.04	257.63	257.25	257.77	0.008288	1.70	3.65	4.06	0.57
Lama	Lama	44	TR200	10.20	256.04	258.53	257.58	258.60	0.002593	1.19	8.54	6.46	0.33
Lama	Lama	10		Bridge									
Lama	Lama	4	TR30	6.20	256.04	257.04	257.25	257.71	0.058223	3.63	1.71	2.47	1.39
Lama	Lama	4	TR200	10.20	256.04	257.16	257.58	258.47	0.105191	5.07	2.01	2.81	1.91
Aff Matto	Aff Matto	8	TR30	3.00	277.65	278.03	278.03	278.17	0.024217	1.65	1.82	6.46	0.99
Aff Matto	Aff Matto	8	TR200	5.00	277.65	278.15	278.15	278.34	0.022366	1.94	2.58	6.64	0.99
Aff Matto	Aff Matto	7	TR30	3.00	265.97	266.43	266.52	266.73	0.056691	2.44	1.23	4.59	1.50
Aff Matto	Aff Matto	7	TR200	5.00	265.97	266.53	266.67	266.94	0.063702	2.85	1.76	5.67	1.63
Aff Matto	Aff Matto	6	TR30	3.00	258.69	261.25	259.34	261.25	0.000060	0.23	15.42	12.17	0.05
Aff Matto	Aff Matto	6	TR200	5.00	258.69	261.37	259.58	261.37	0.000129	0.35	16.81	12.17	0.08

HEC-RAS Plan: Taratura (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Aff Matto	Aff Matto	5.5											
			Bridge										
Aff Matto	Aff Matto	5	TR30	3.00	257.22	258.40	258.01	258.54	0.011611	1.67	1.80	1.75	0.53
Aff Matto	Aff Matto	5	TR200	5.00	257.22	258.06	258.30	258.91	0.088326	4.08	1.22	1.62	1.50
Aff Matto	Aff Matto	4	TR30	3.00	252.63	253.37	253.37	253.58	0.023491	2.01	1.49	3.59	1.00
Aff Matto	Aff Matto	4	TR200	5.00	252.63	253.74	253.56	253.83	0.012765	1.37	3.64	10.32	0.74
Aff Matto	Aff Matto	3	TR30	3.00	248.83	249.77	249.59	249.81	0.004840	0.87	3.43	9.23	0.46
Aff Matto	Aff Matto	3	TR200	5.00	248.83	249.79	249.70	249.88	0.011836	1.39	3.59	9.36	0.72
Aff Matto	Aff Matto	2	TR30	6.60	248.59	249.02	249.02	249.09	0.019601	1.34	6.17	43.35	0.88
Aff Matto	Aff Matto	2	TR200	10.60	248.59	249.85	249.08	249.85	0.000062	0.20	62.19	76.55	0.06
Aff Matto	Aff Matto	1	TR30	6.60	244.39	247.75	245.06	247.75	0.000001	0.06	121.25	42.74	0.01
Aff Matto	Aff Matto	1	TR200	10.60	244.39	249.85	245.13	249.85	0.000001	0.06	210.99	42.74	0.01
Aff Matto	Aff Matto	0.5	TR30	6.60	242.96	247.74	244.33	247.74	0.000065	0.29	22.86	6.09	0.05
Aff Matto	Aff Matto	0.5	TR200	10.60	242.96	249.84	244.58	249.84	0.000055	0.30	35.65	6.09	0.04