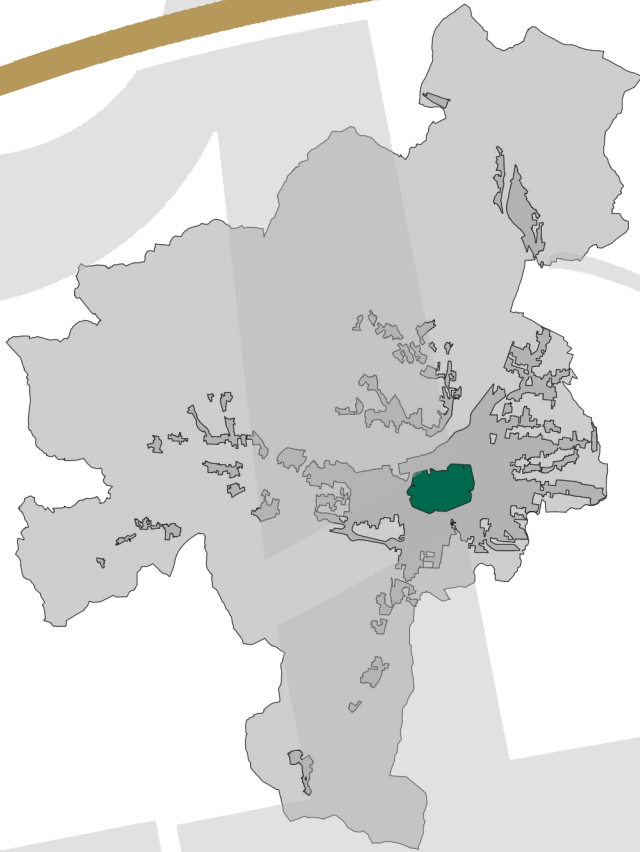




Città
di Lucca

La casa
della Città

il Piano Operativo



Quadro geologico - tecnico

All. I3.1 - Idraulica
Simulazioni sul sistema Rio Carraia

Assessore all'Urbanistica

Serena Mammini

Sindaco

Alessandro Tambellini

Adozione

MODELLI IDRAULICI MONODIMENSIONALI

Si riportano gli output forniti dal codice di calcolo Hec-Ras sul reticolo idraulico con simulazione del deflusso trentennale e duecentennale. Si allegano

- I profili;
- Le sezioni dei corsi d'acqua;
- L'output tabellare con i risultati delle simulazioni svolte.

LEGENDA DELLE TABELLE

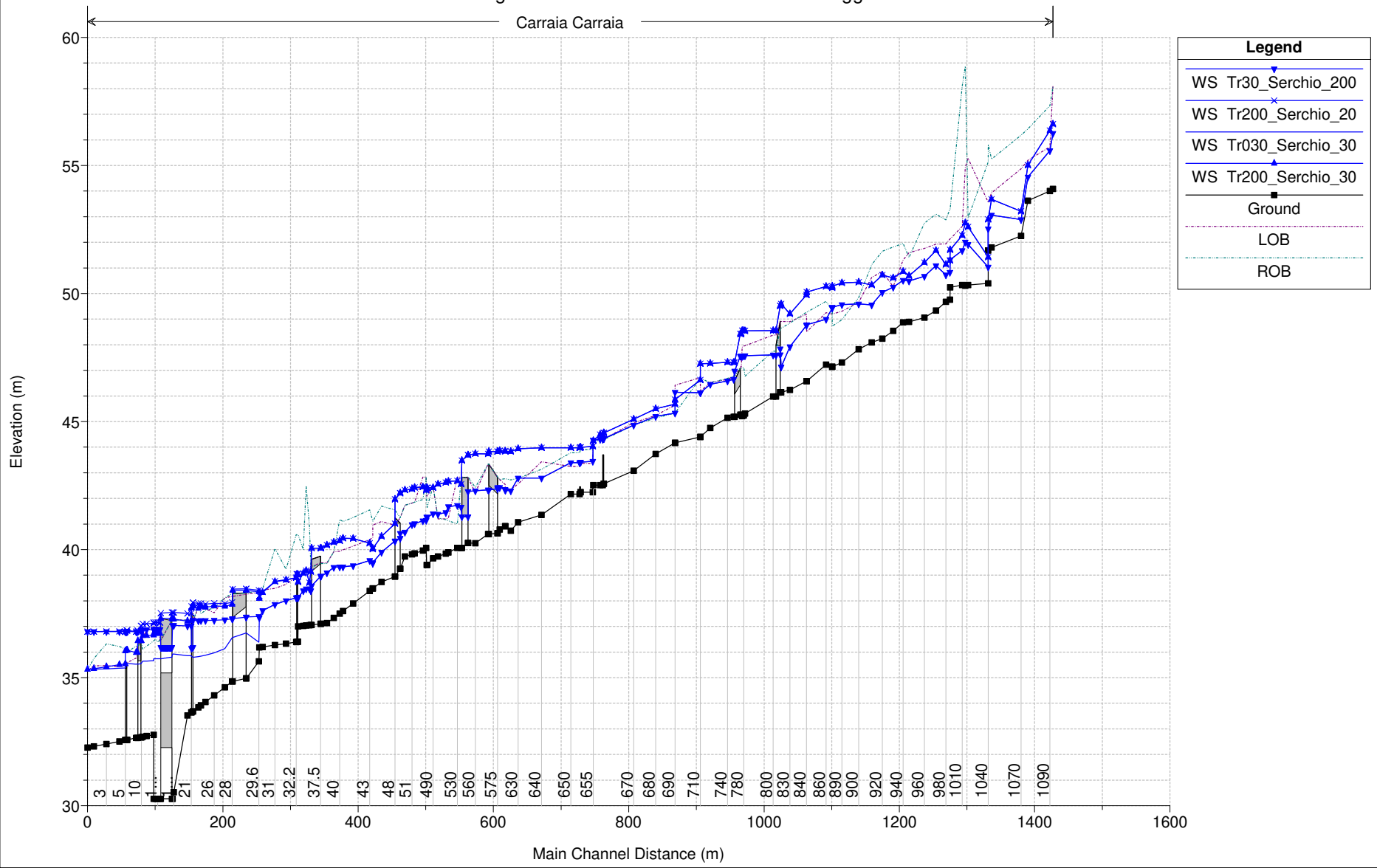
Le grandezze riportate in tabella hanno il seguente significato:

- **River station** Sezione trasversale del corso d'acqua
- **Q Total** Portata idraulica
- **Min Ch Elev** Quota del fondo rispetto al prescelto sistema di riferimento
- **W.S. Elev** Quota del pelo libero rispetto al prescelto sistema di riferimento
- **Max Chl Dpth** Tirante idraulico massimo (differenza dei termini W.S Elev e il termine Min Ch Elev)
- **LOB Elev** Quota della sommità arginale sinistra rispetto al prescelto sistema di riferimento
- **ROB Elev** Quota della sommità arginale destra rispetto al prescelto sistema di riferimento
- **L.Freeboard** Franco sinistro: differenza fra il termine LOB Elev e il termine W.S Elev
- **R.Freeboard** Franco destro: differenza fra il termine ROB Elev e il termine W.S Elev
- **Vel Chnl** Velocità media della corrente
- **Froude n.** Numero di Froude: se maggiore di 1 indica la presenza di corrente veloce, se inferiore a 1 segnala la presenza di corrente lenta

SISTEMA RIO CARRAIA

Fosso Carraia - Progetto Definitivo 2006 Plan: Carraia aggiornato 1 6/21/2021

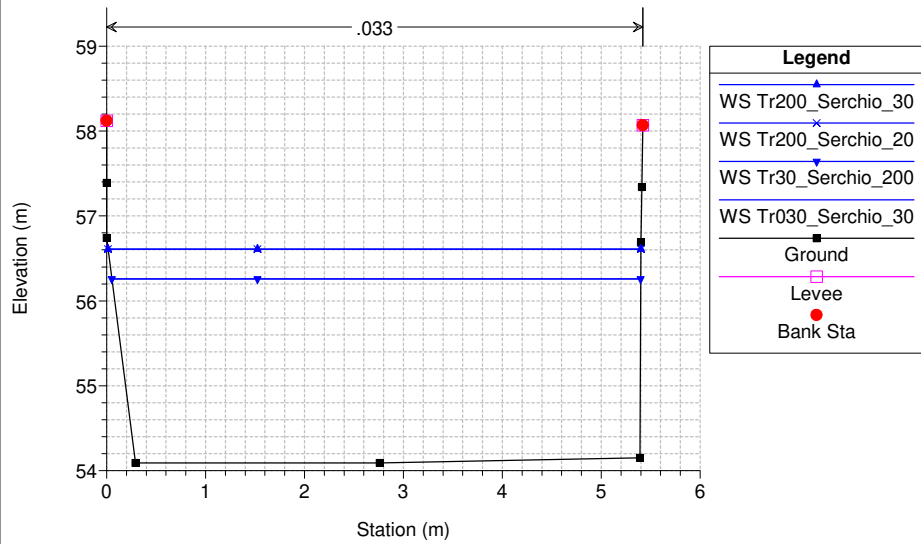
Carraia Carraia



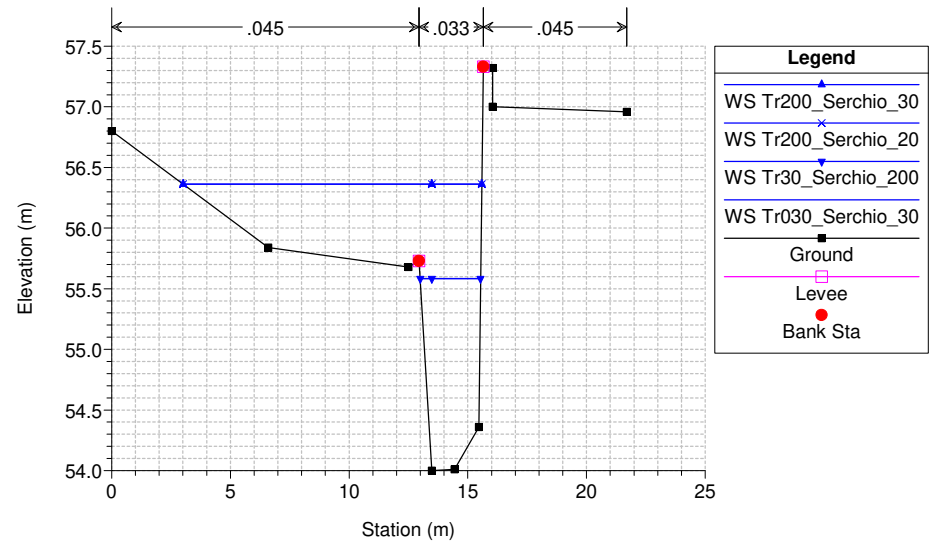
Legend	
WS Tr30_Serchio_200	▲
WS Tr200_Serchio_20	×
WS Tr030_Serchio_30	▲
WS Tr200_Serchio_30	▼
Ground	■
LOB	- - -
ROB	⋯

SEZIONI SISTEMA RIO CARRAIA

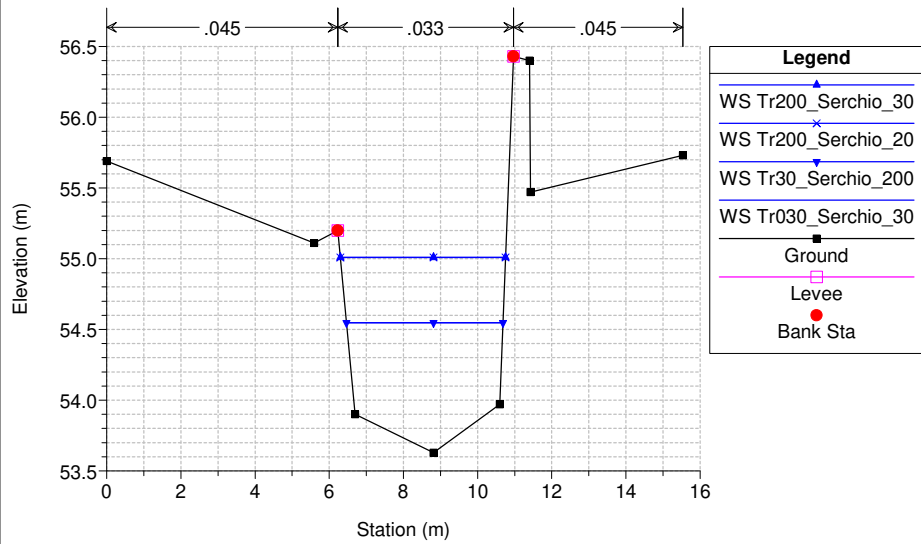
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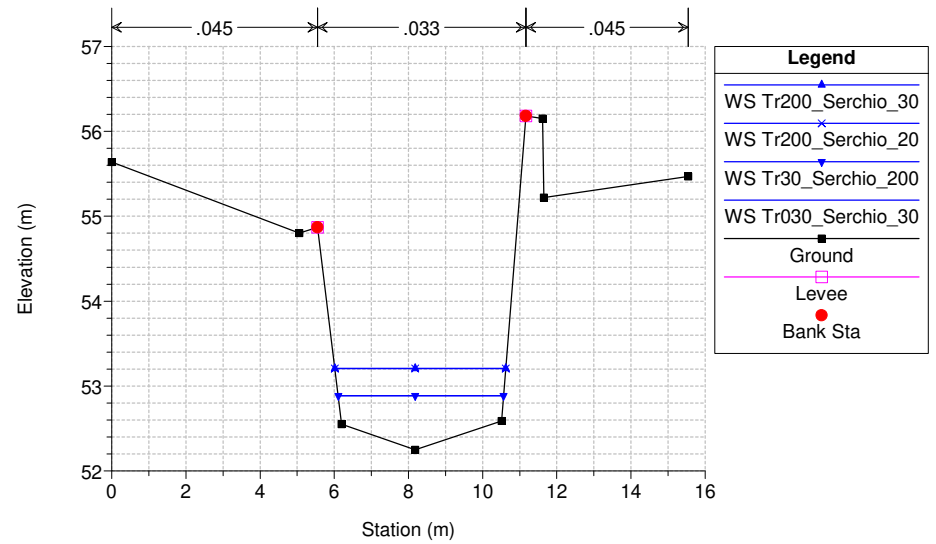
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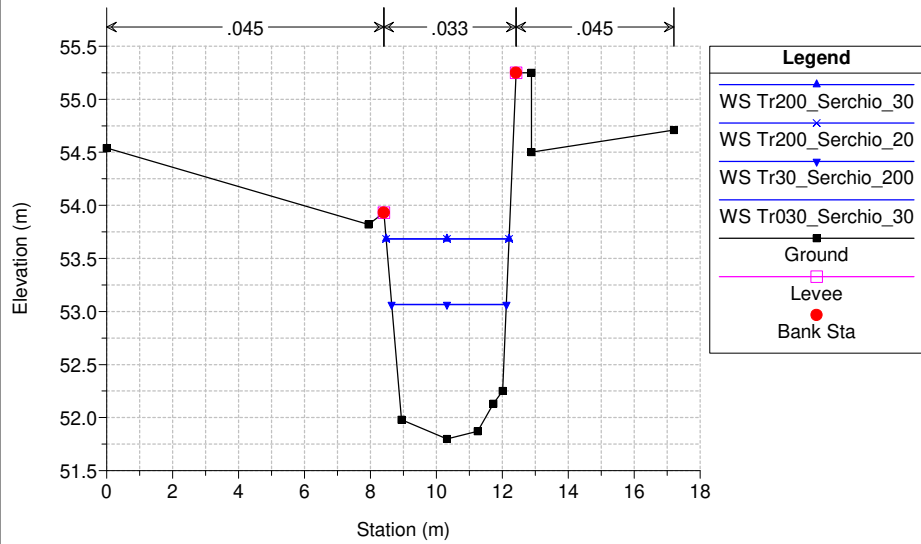
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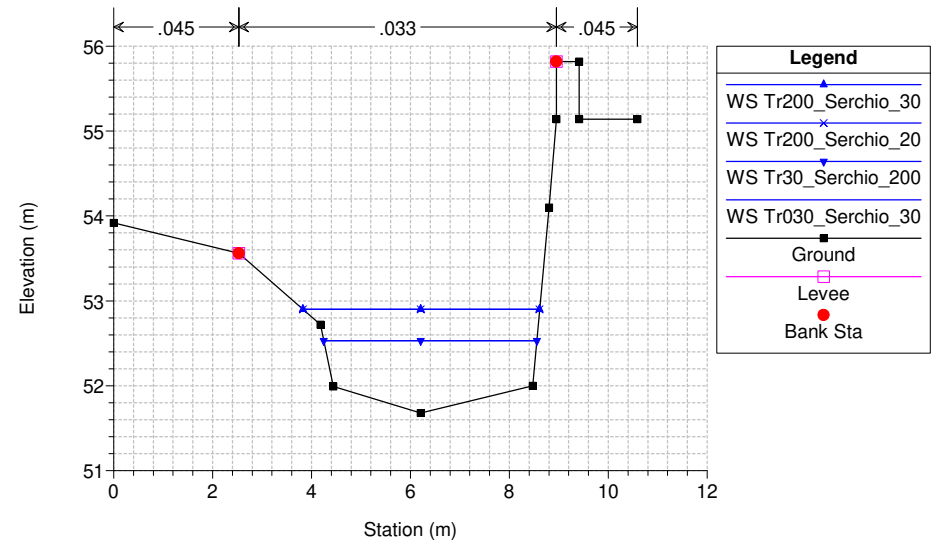
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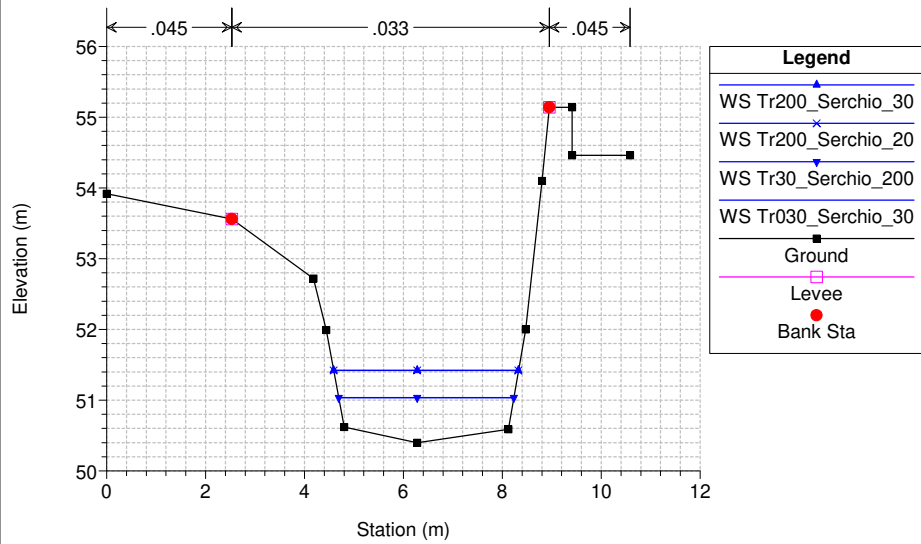
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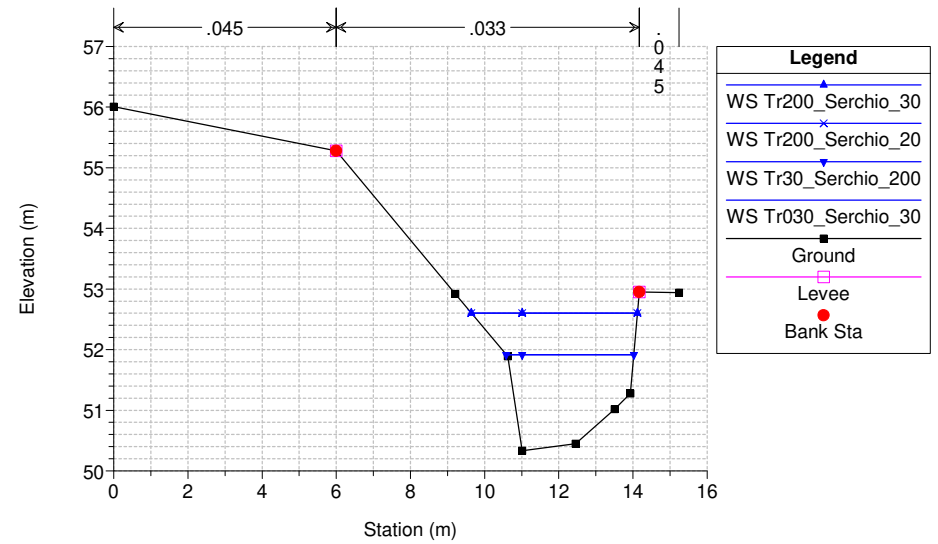
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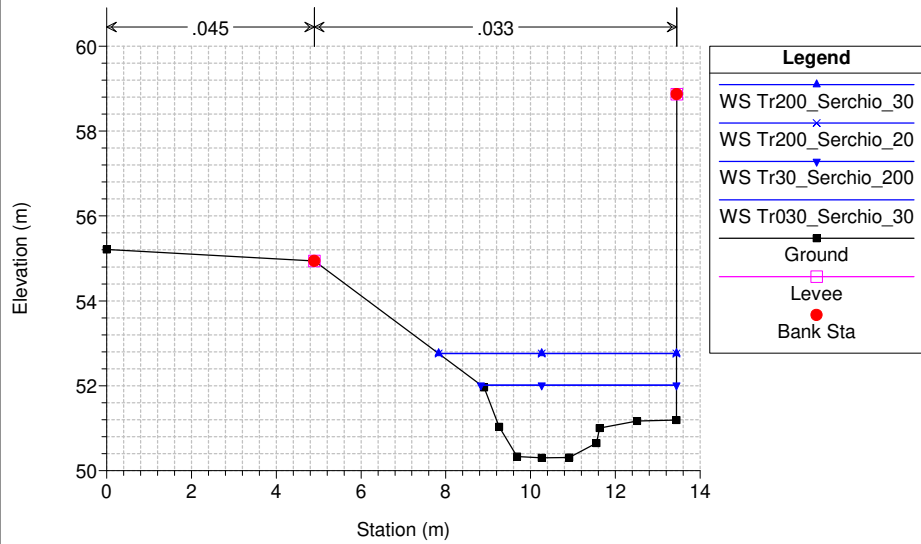
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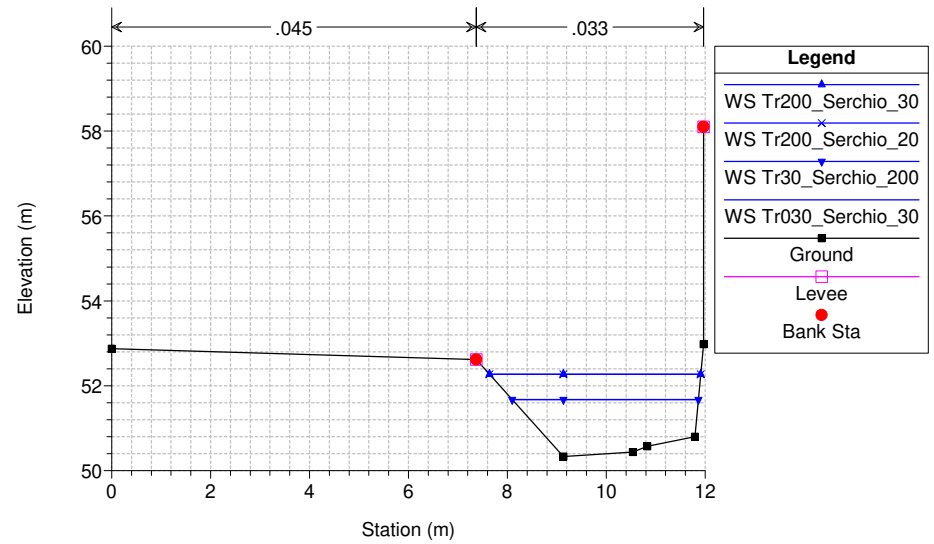
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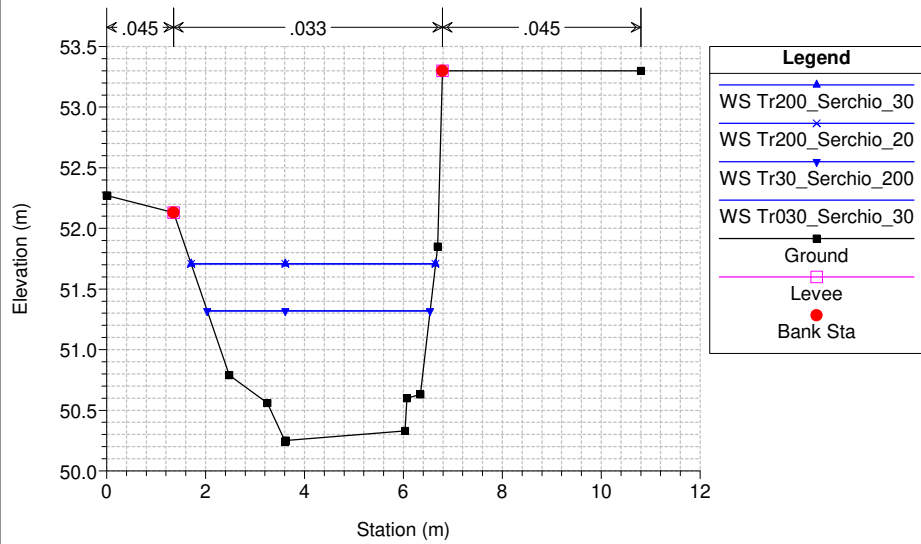
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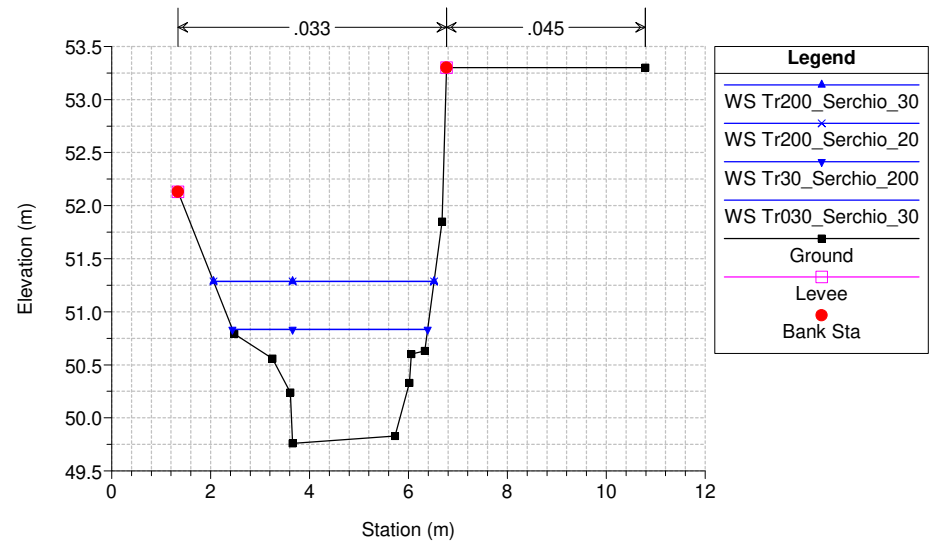
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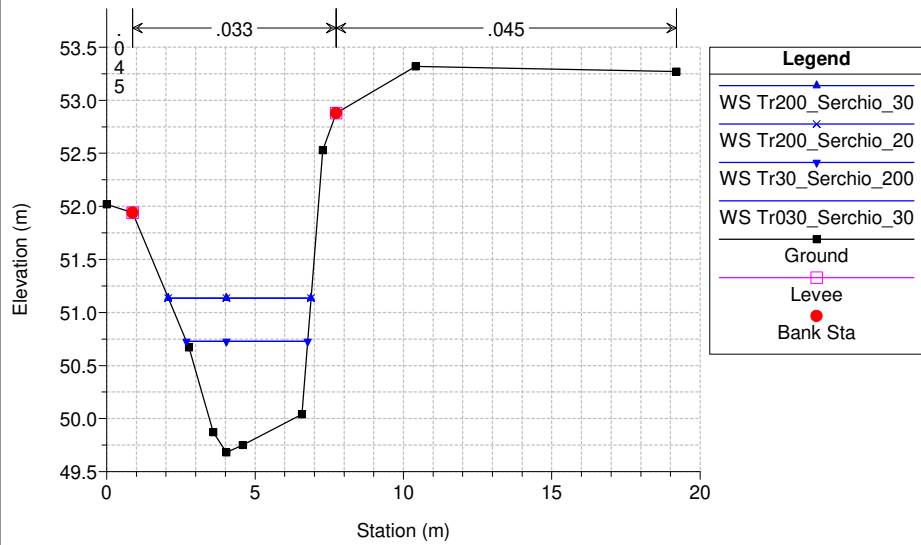
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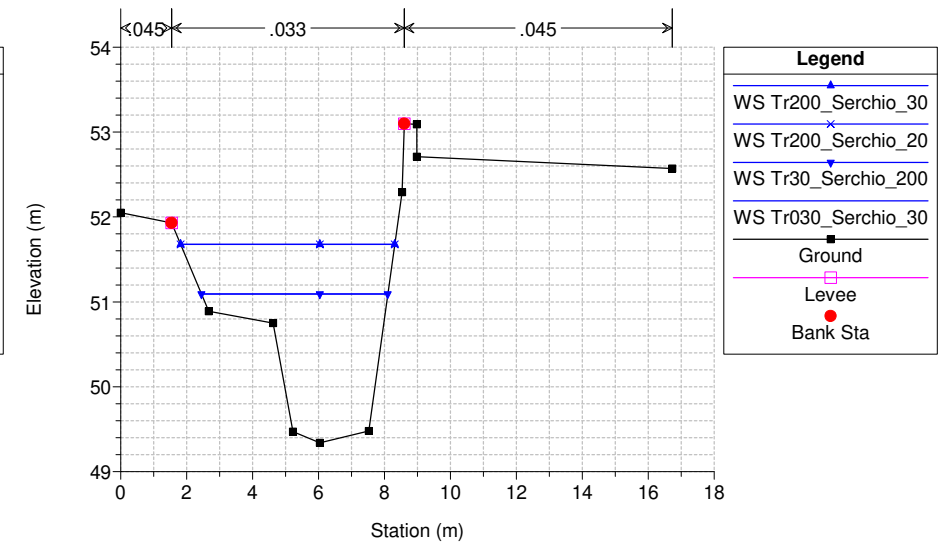
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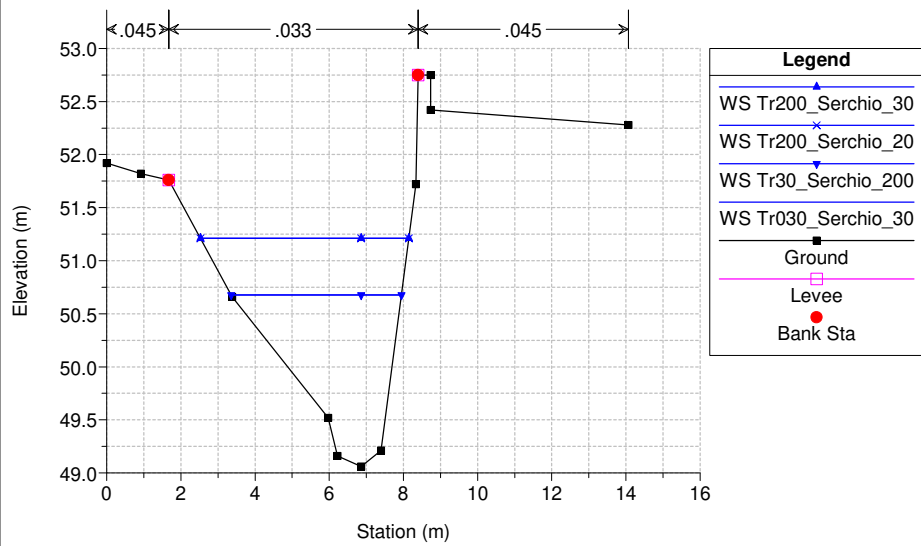
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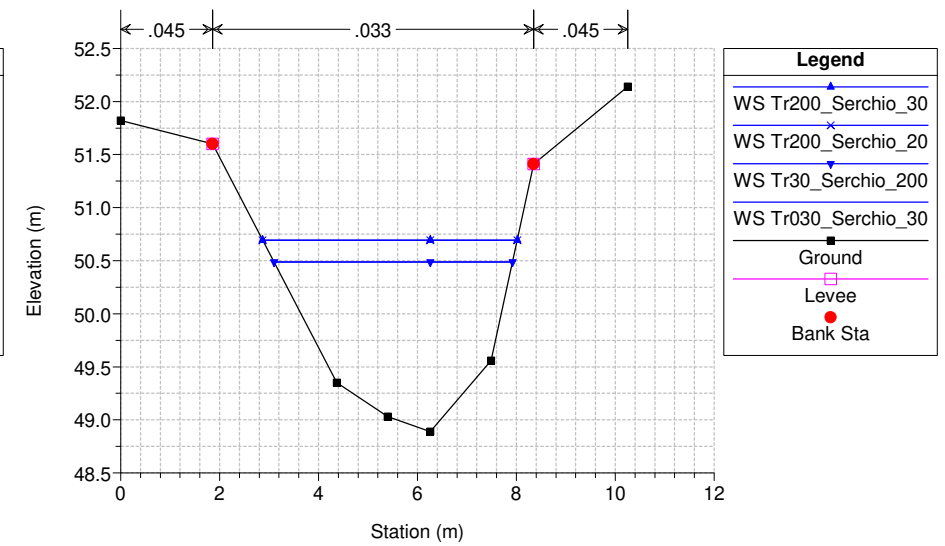
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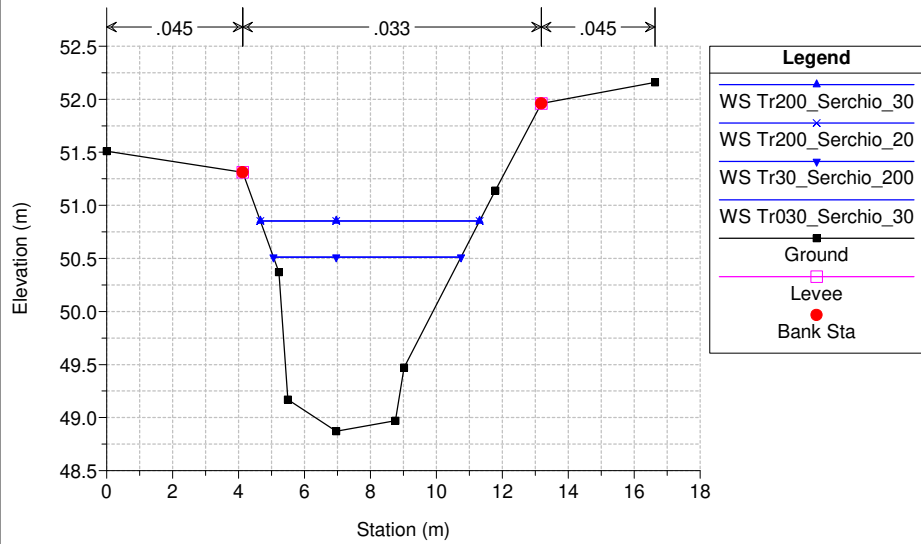
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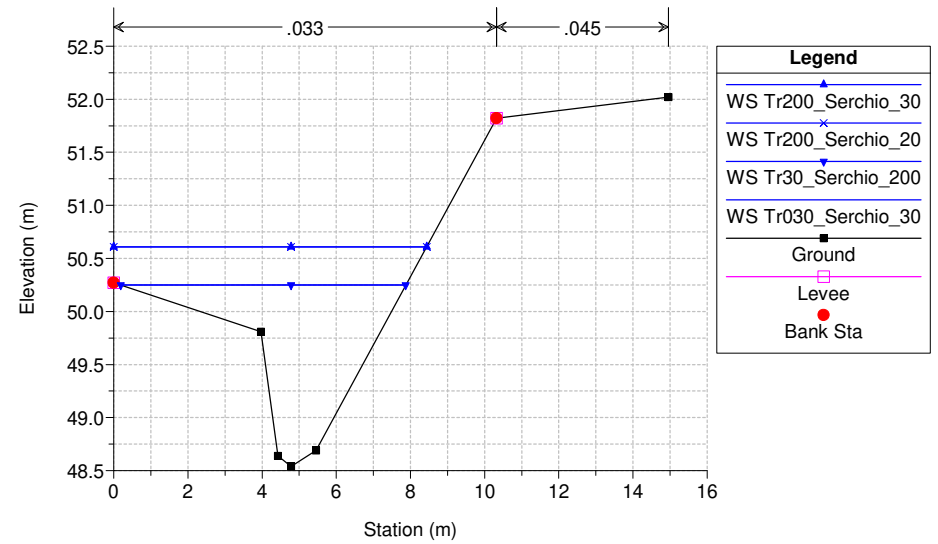
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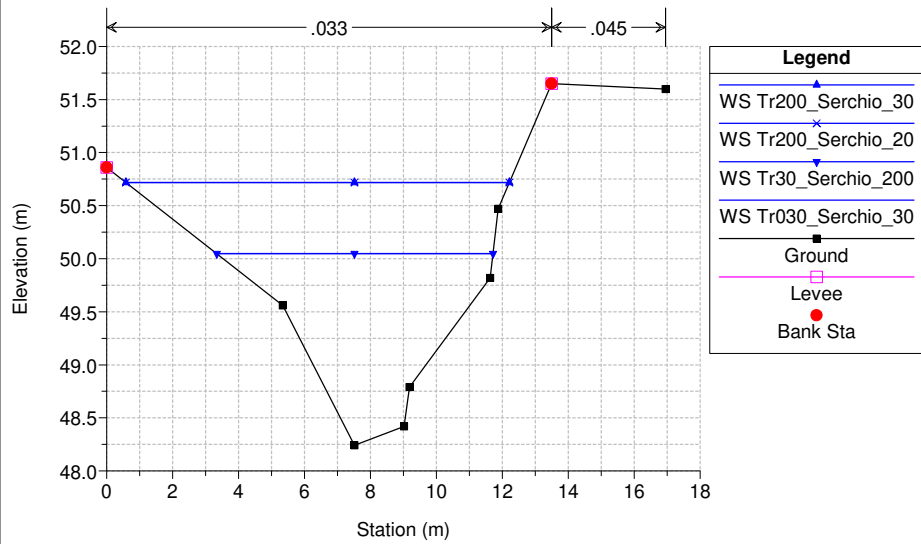
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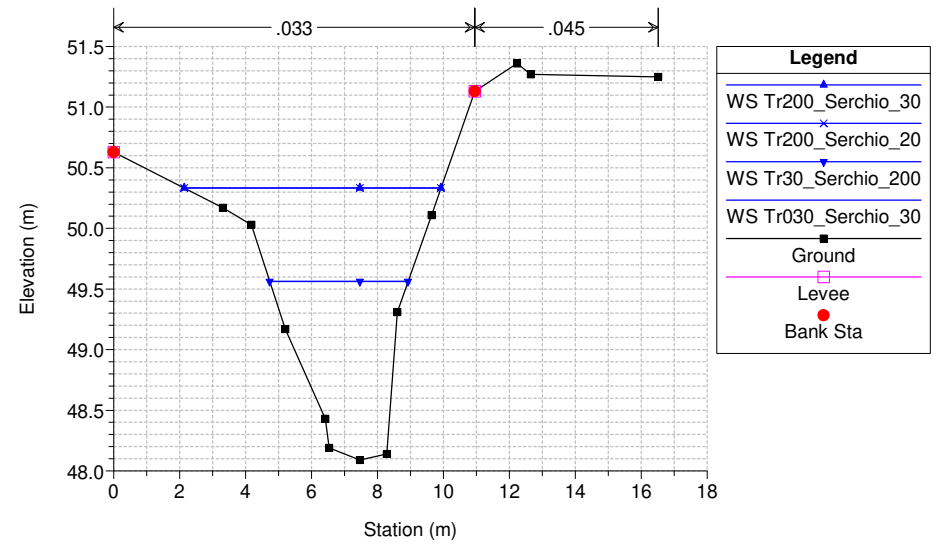
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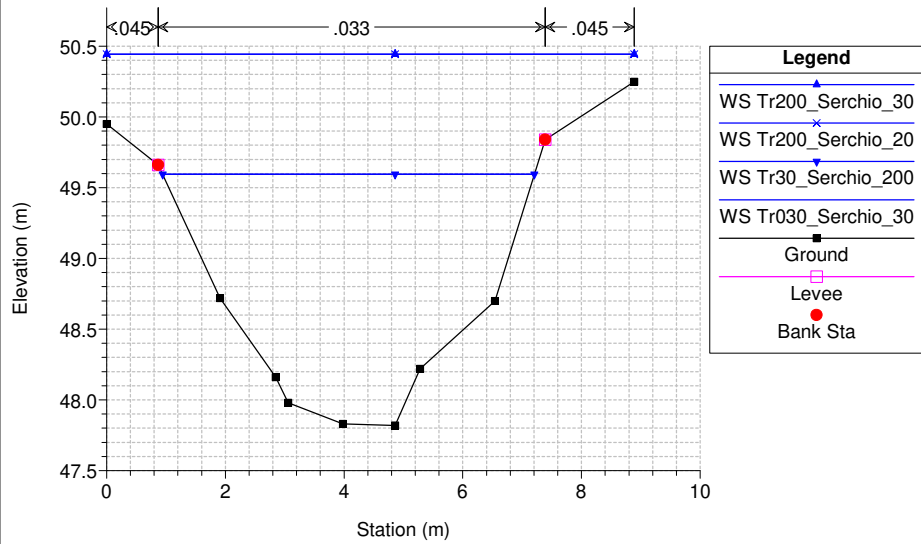
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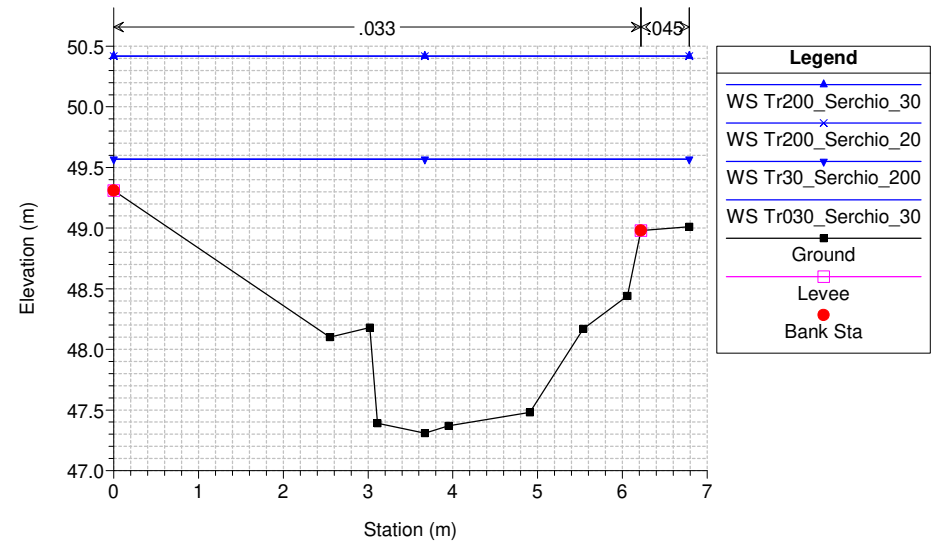
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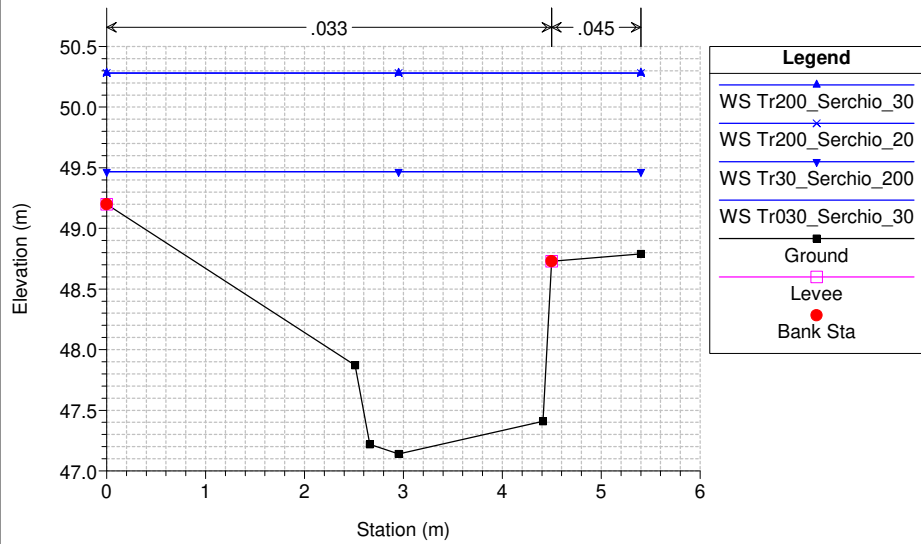
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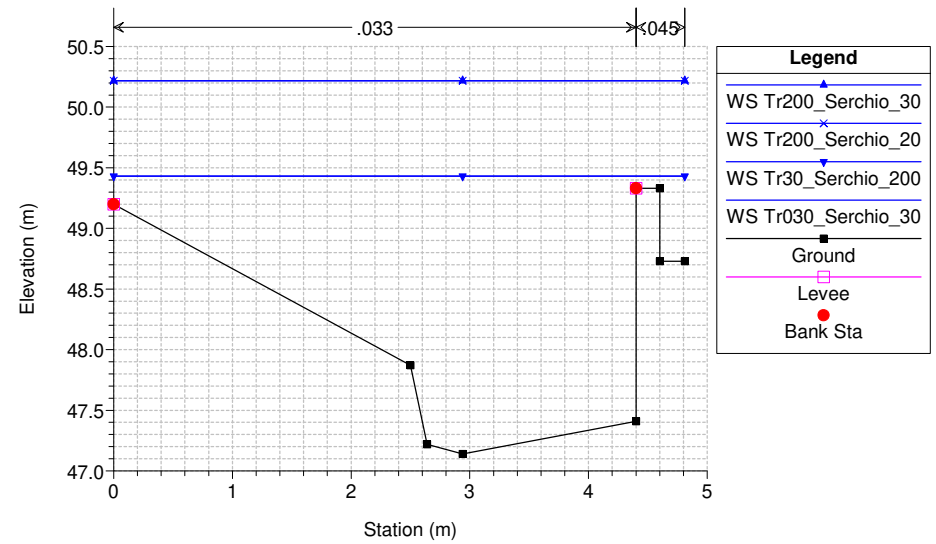
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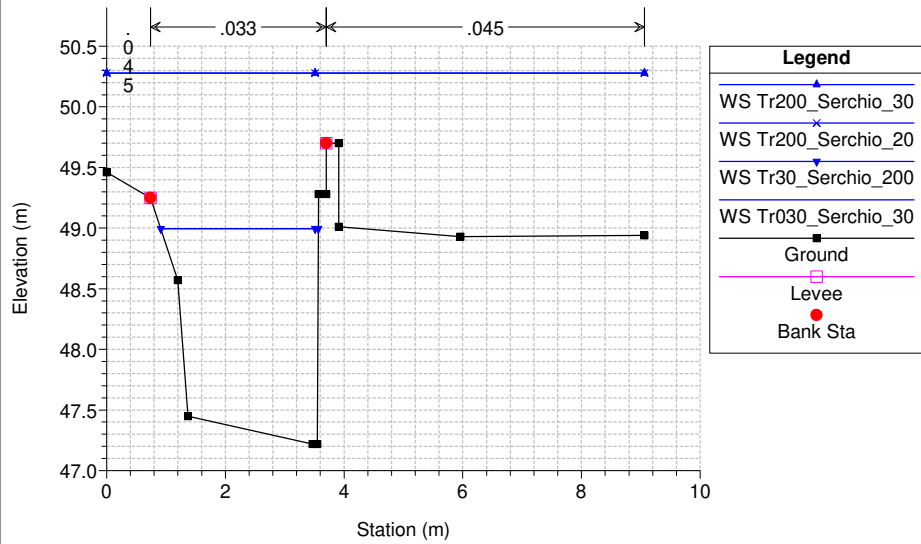
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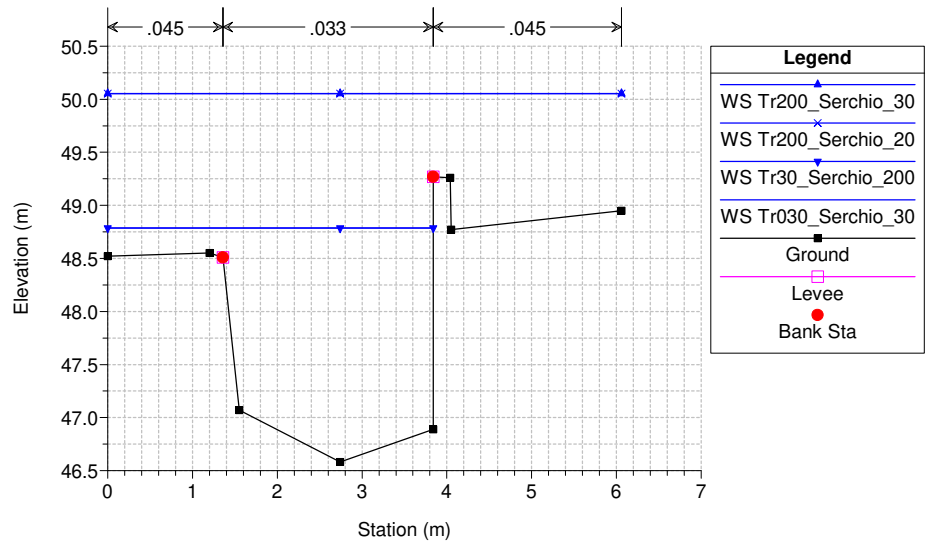
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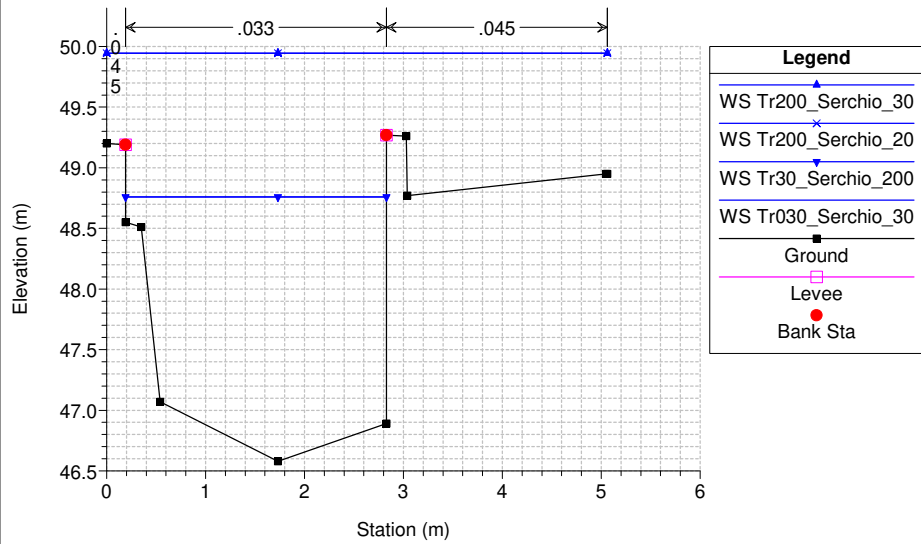
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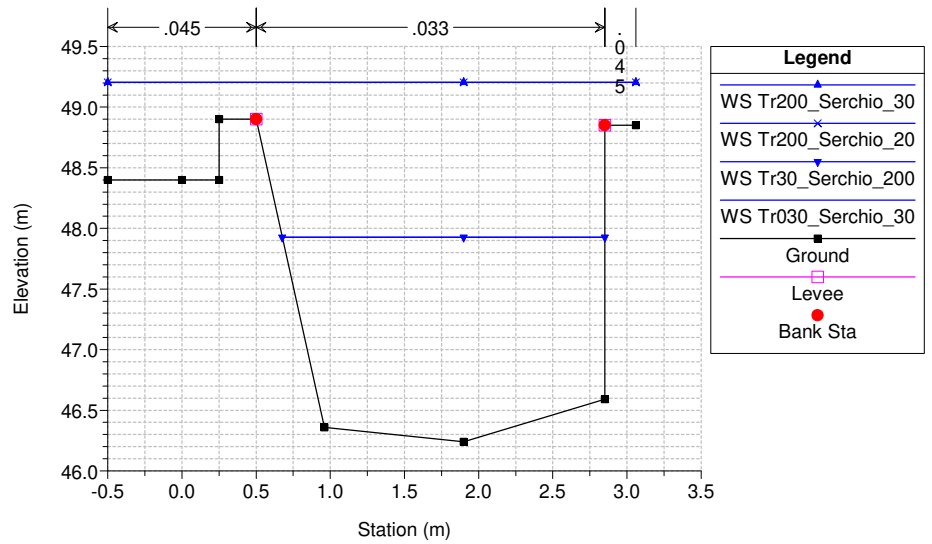
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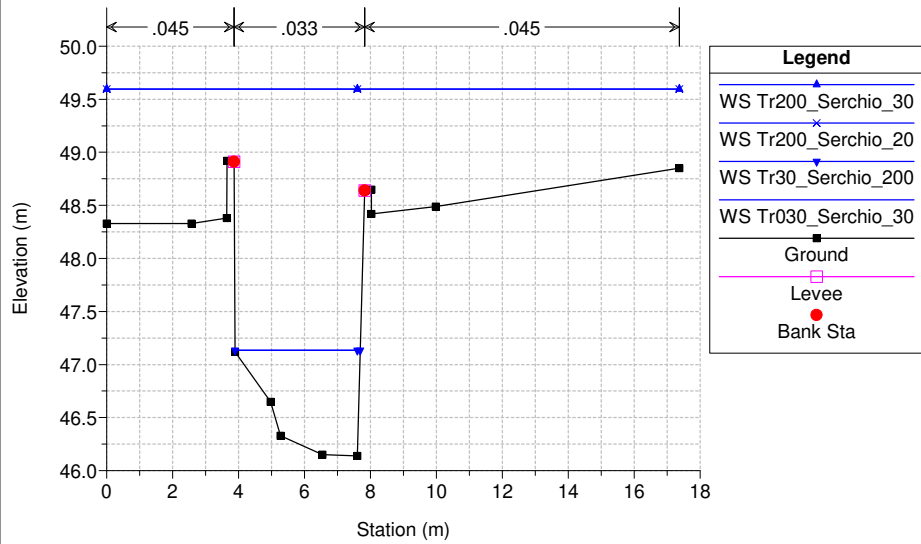
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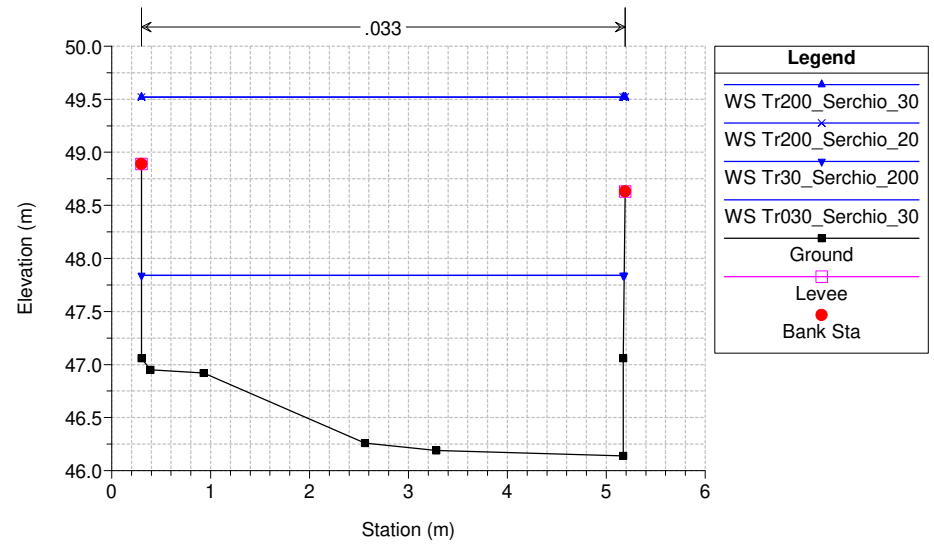
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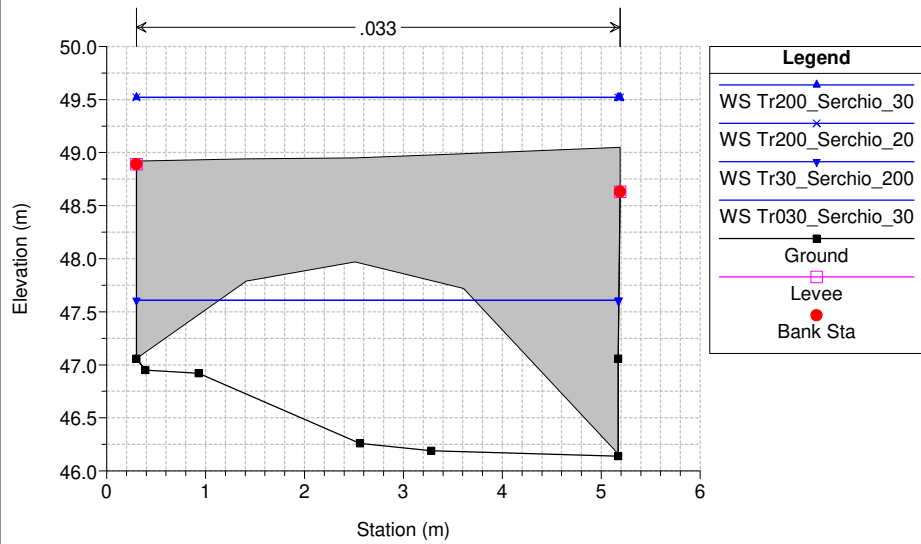
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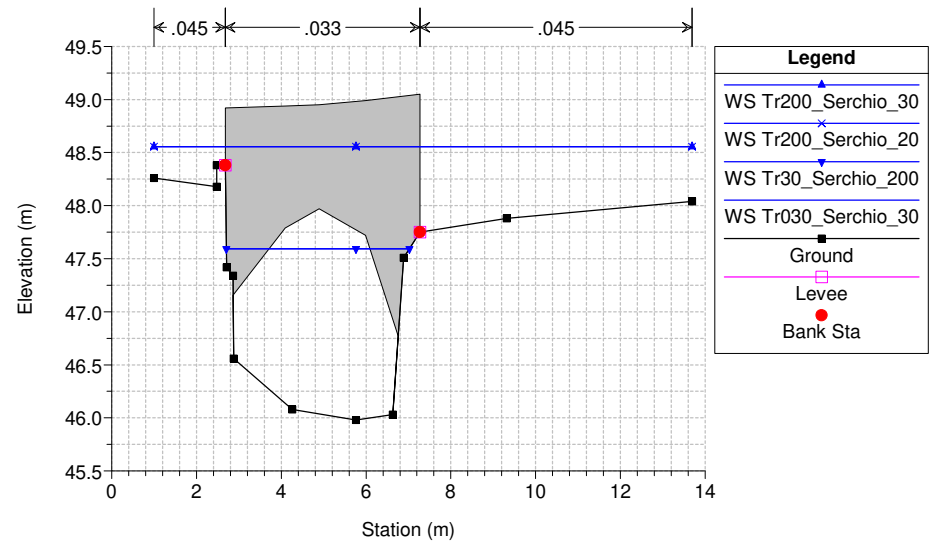
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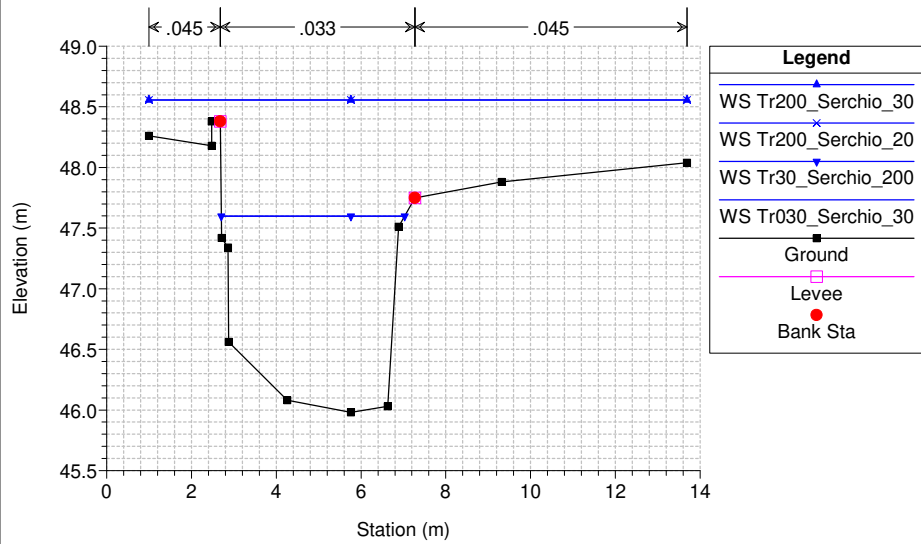
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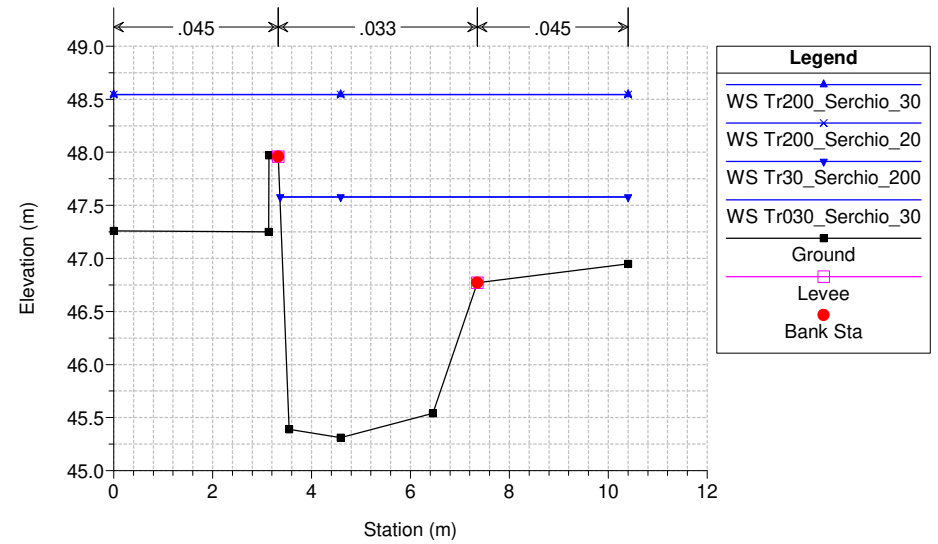
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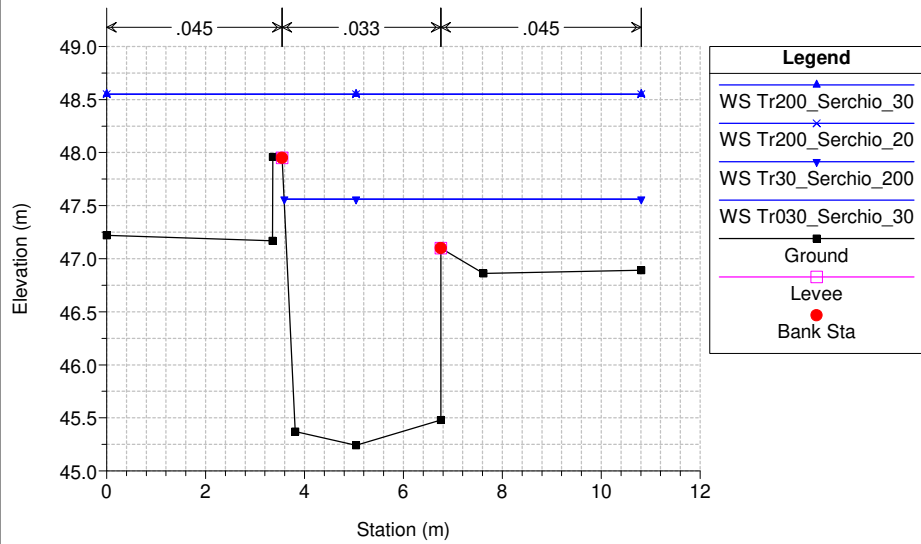
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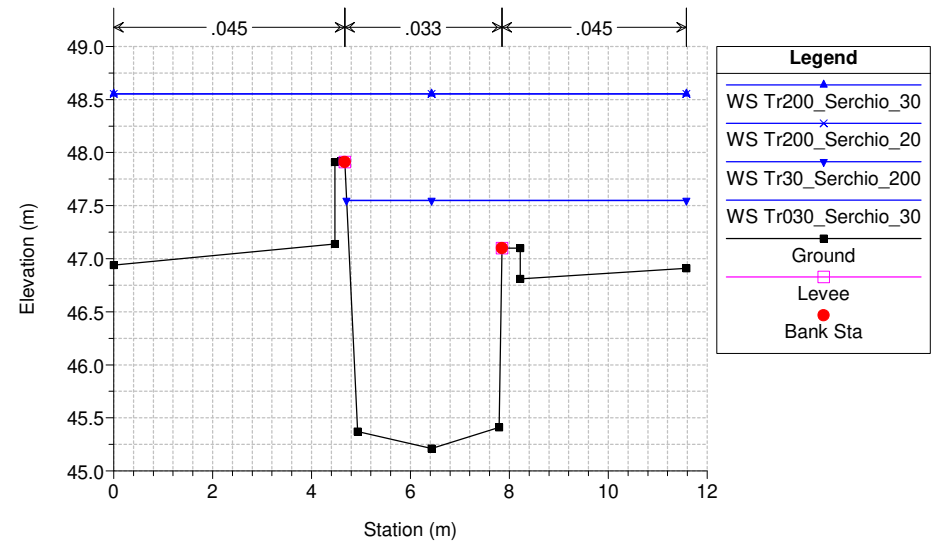
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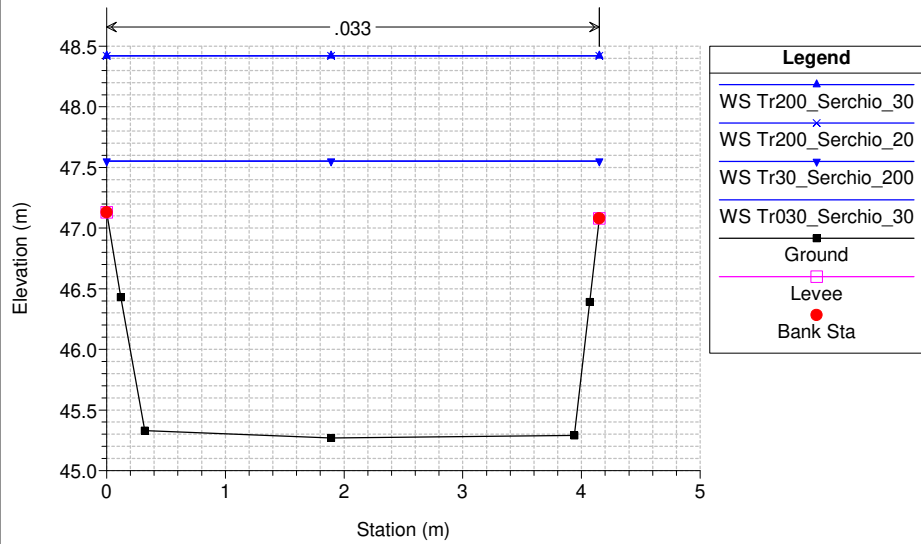
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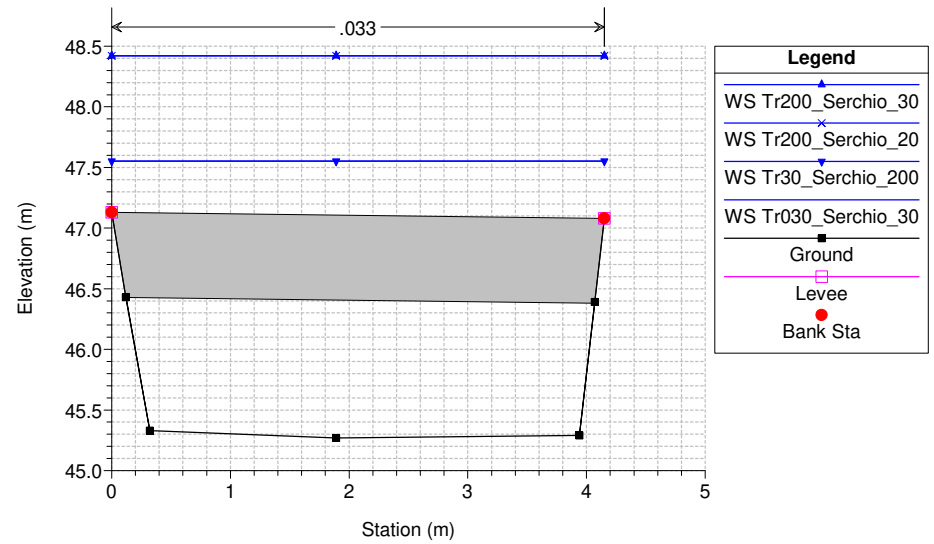
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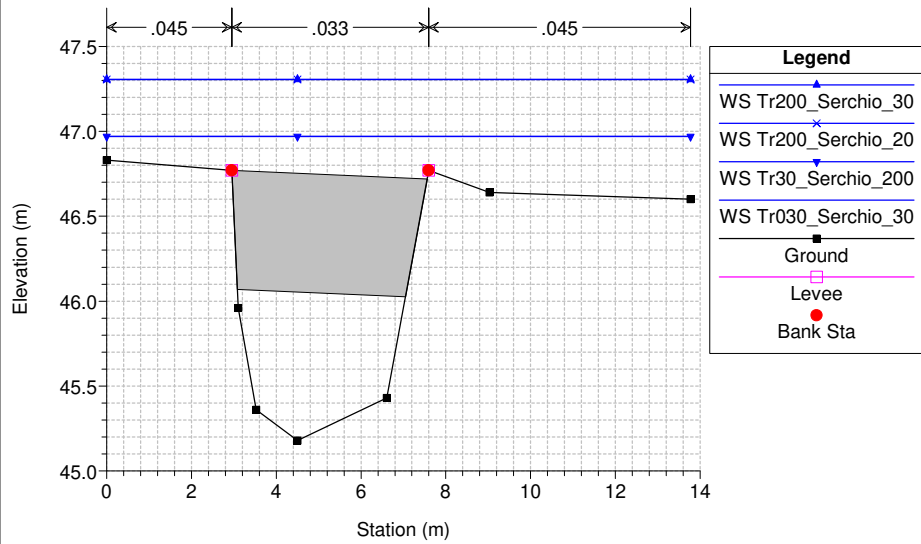
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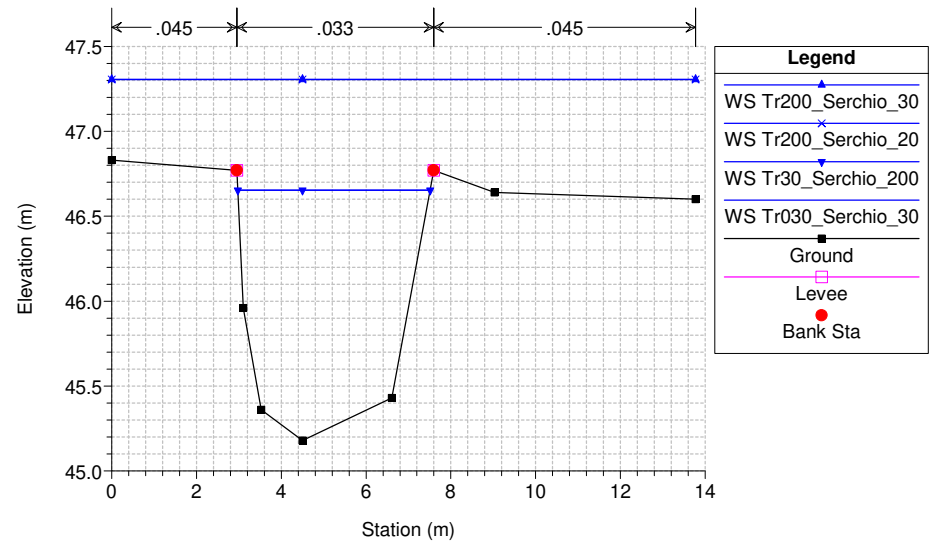
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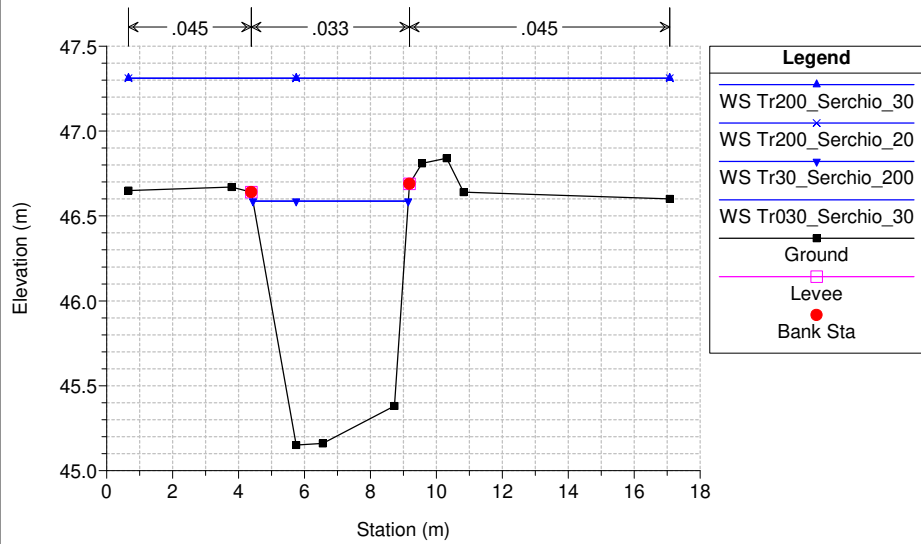
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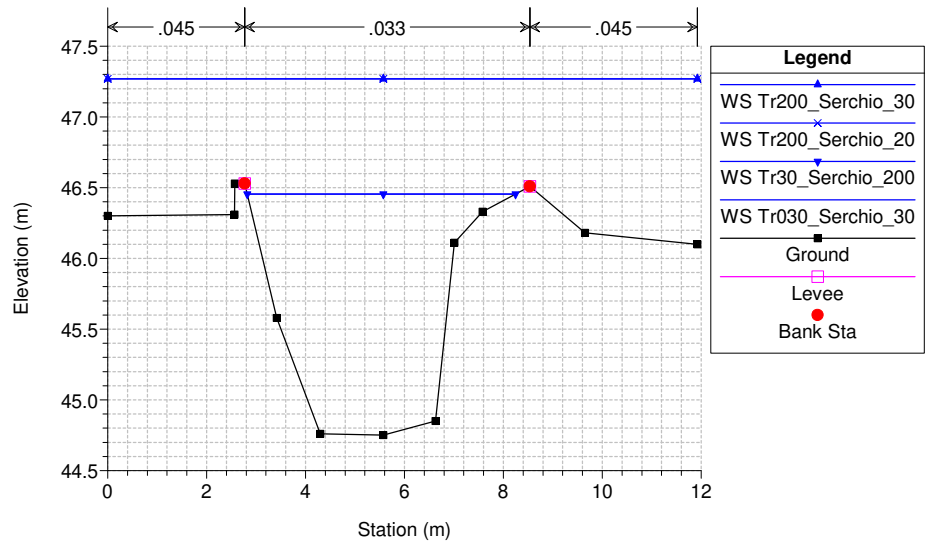
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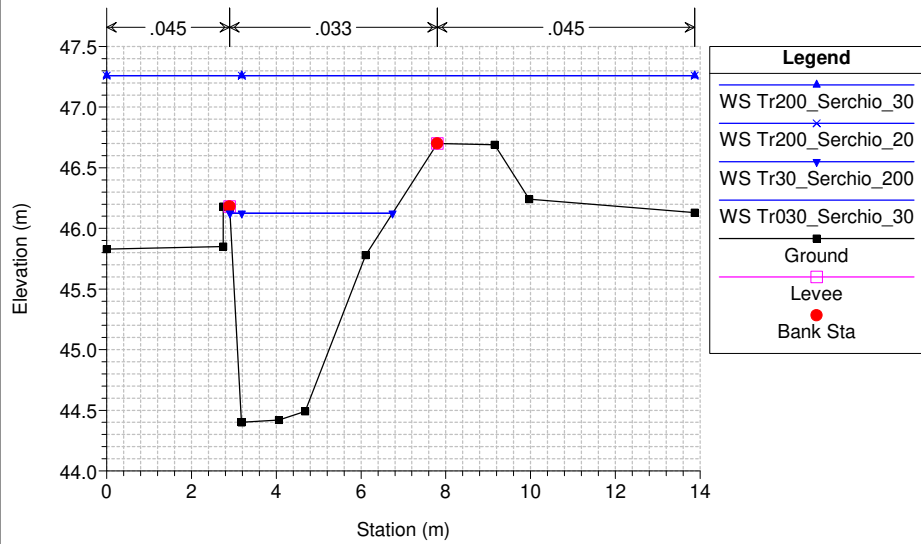
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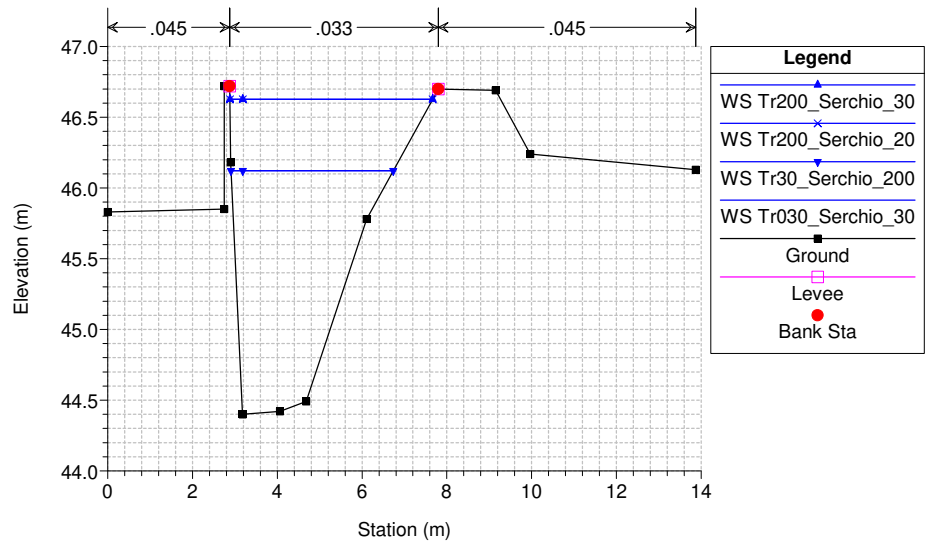
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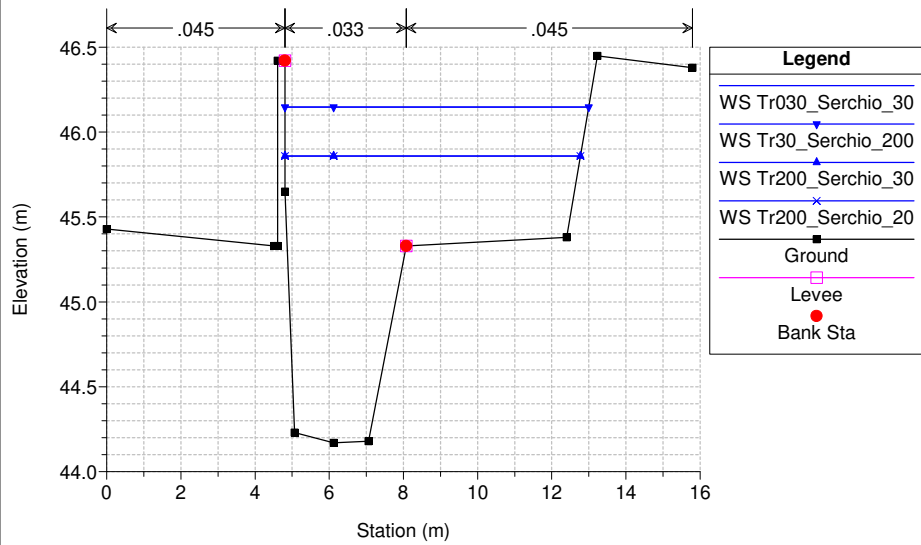
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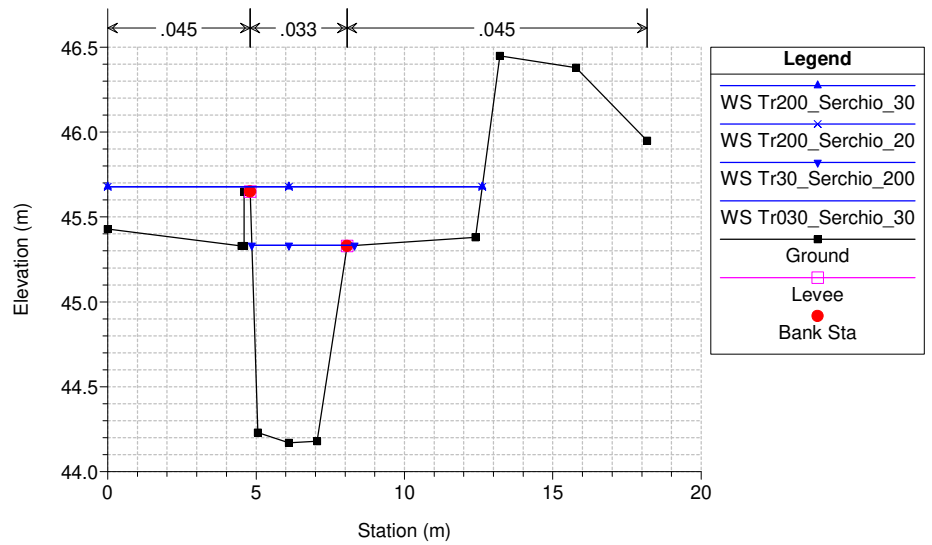
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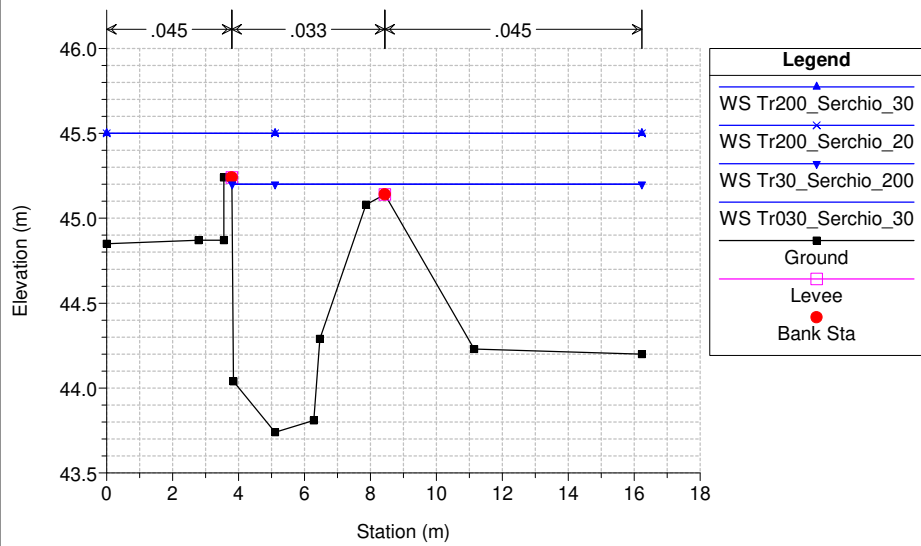
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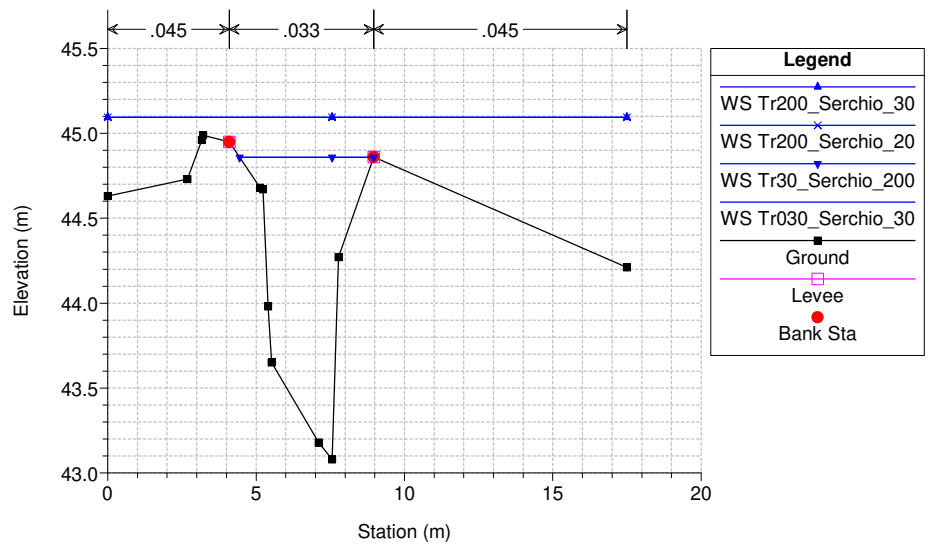
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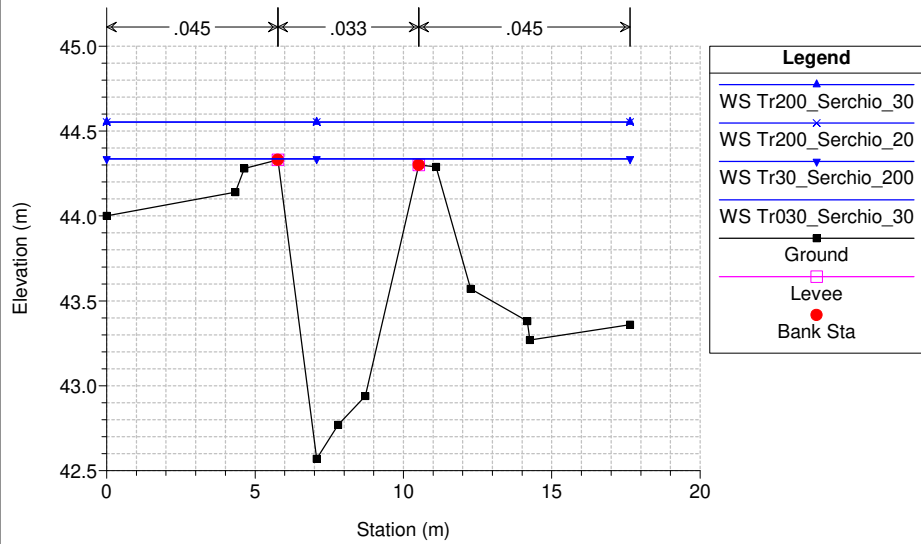
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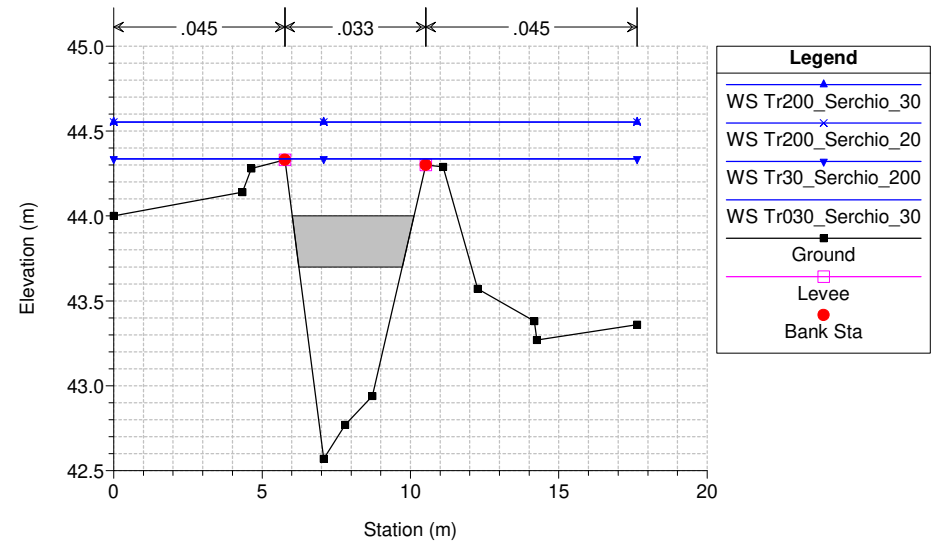
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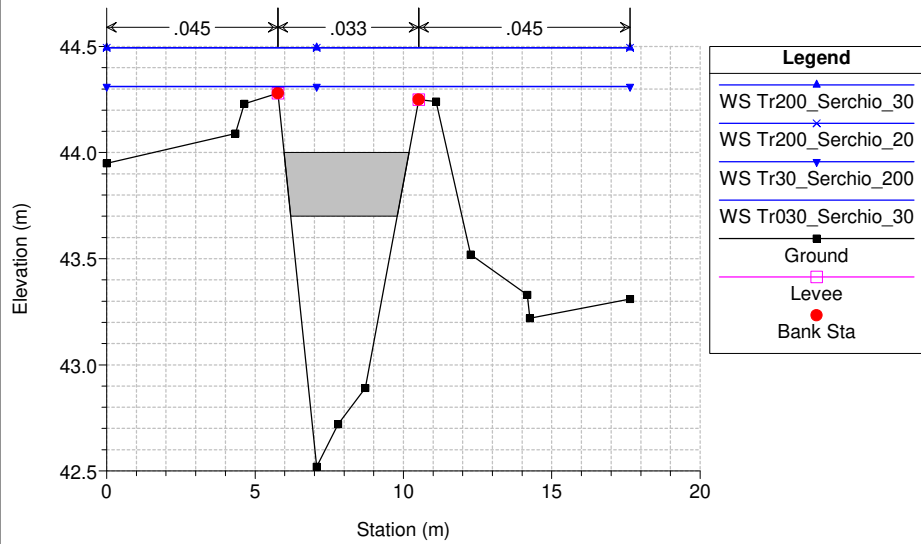
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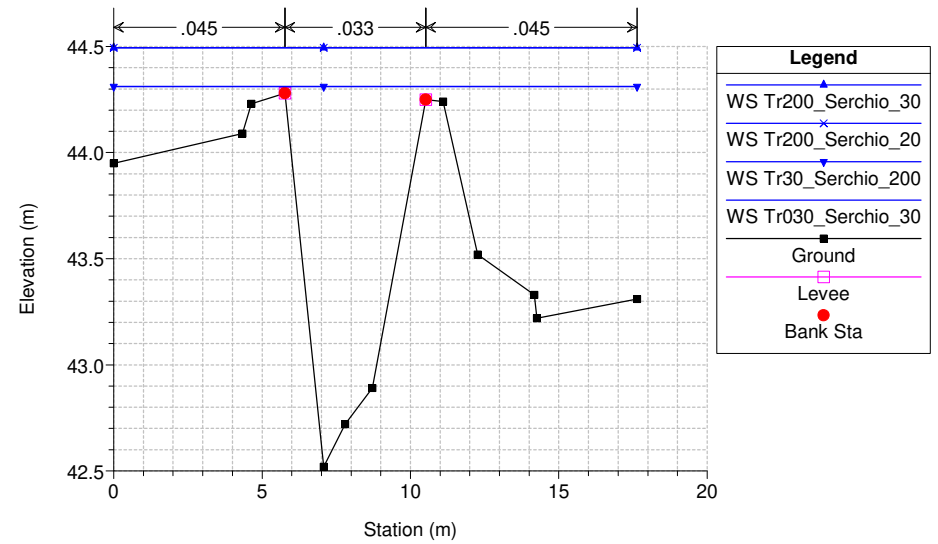
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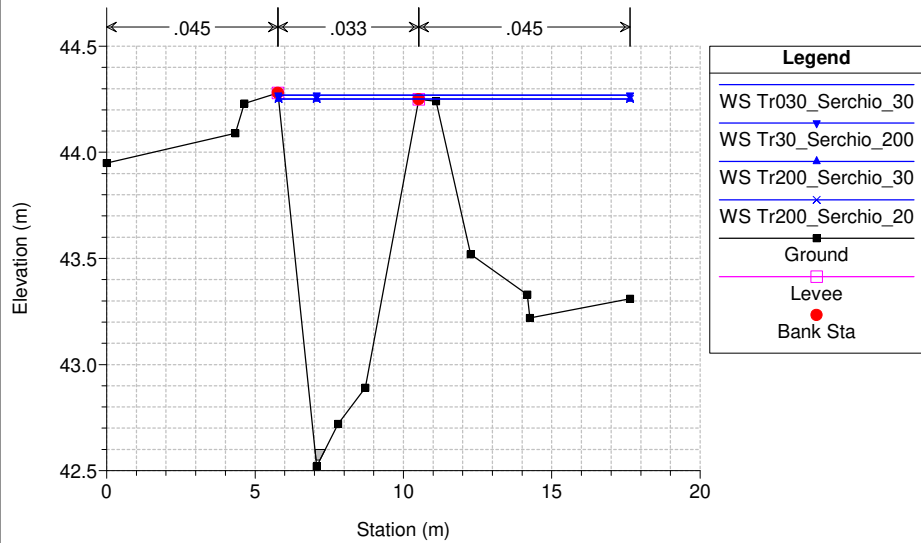
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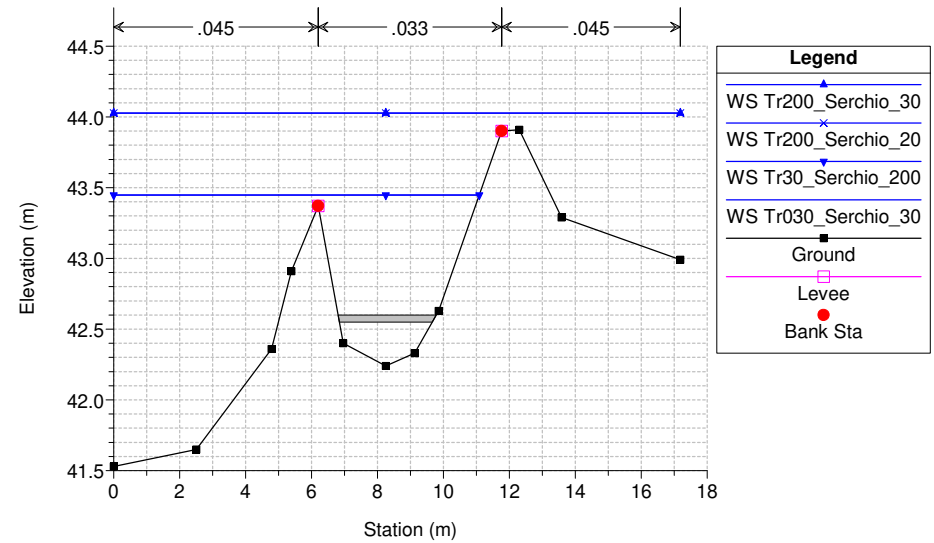
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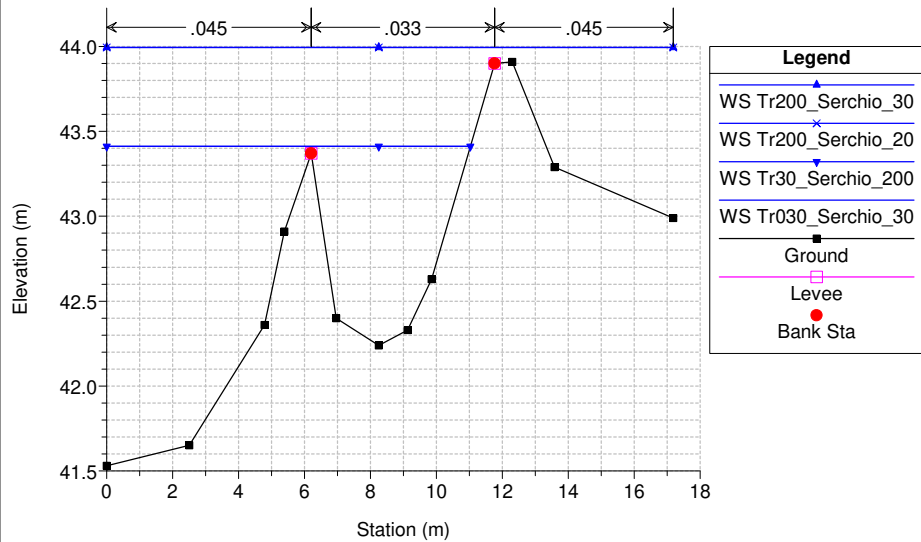
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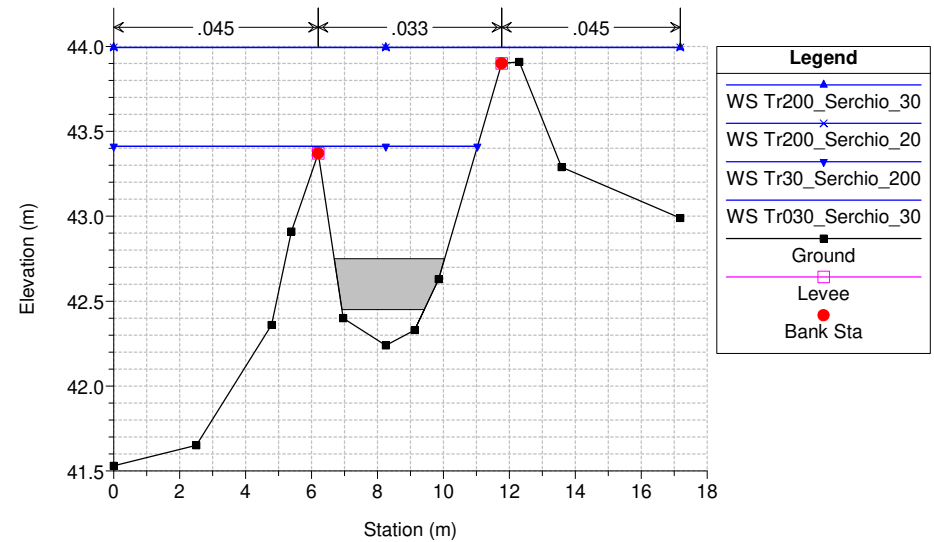
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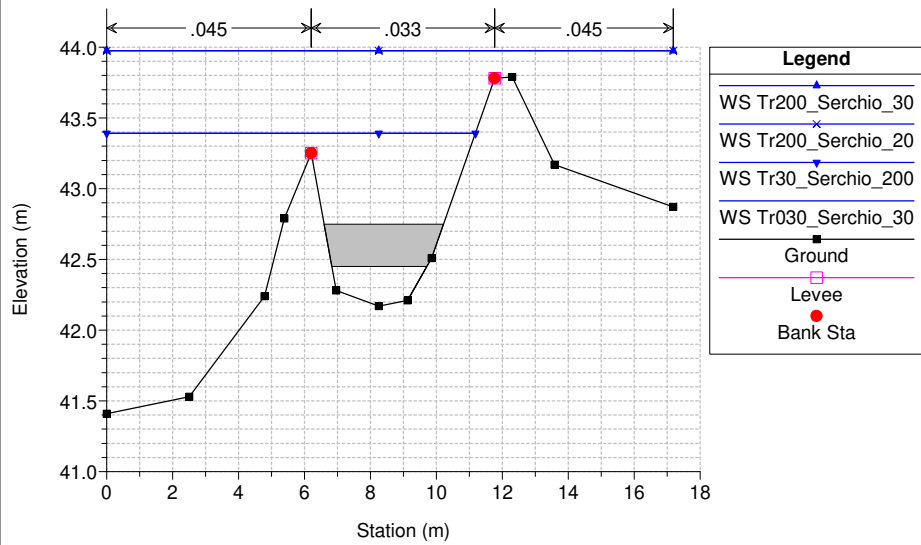
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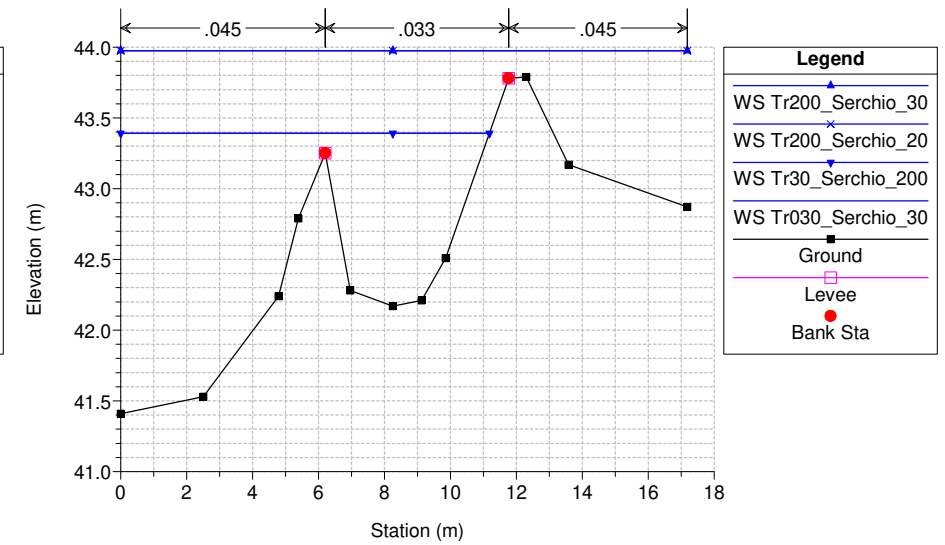
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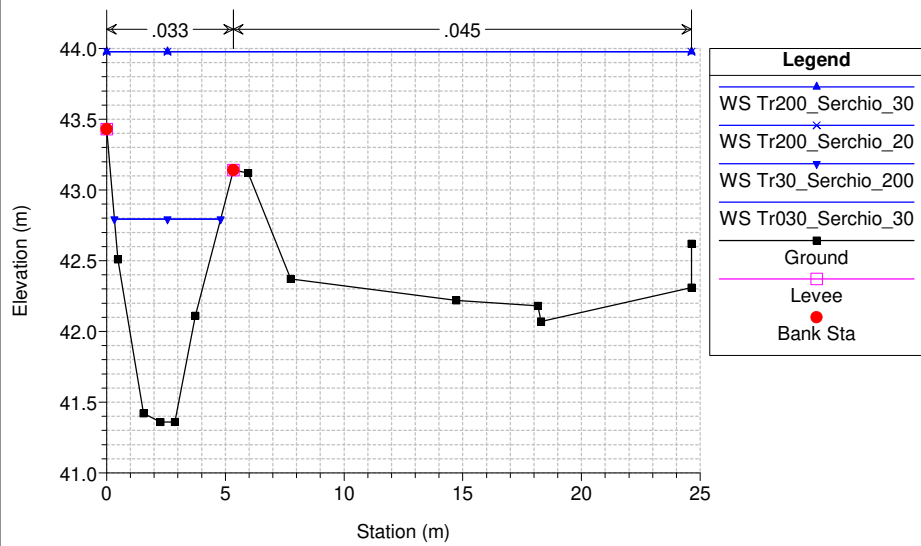
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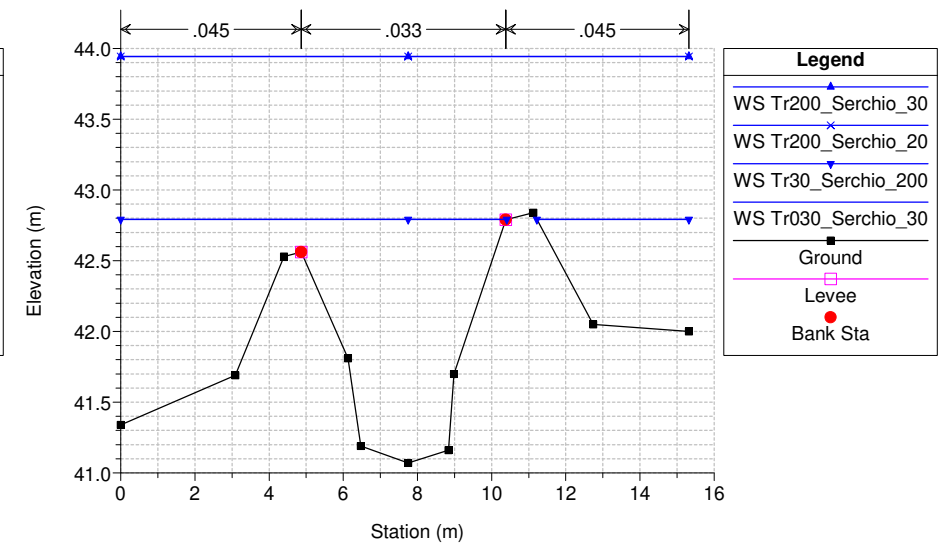
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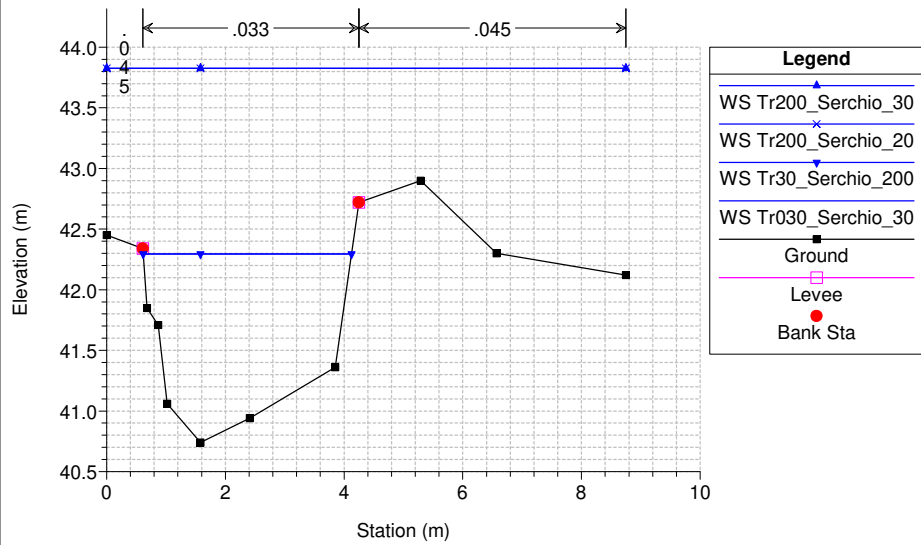
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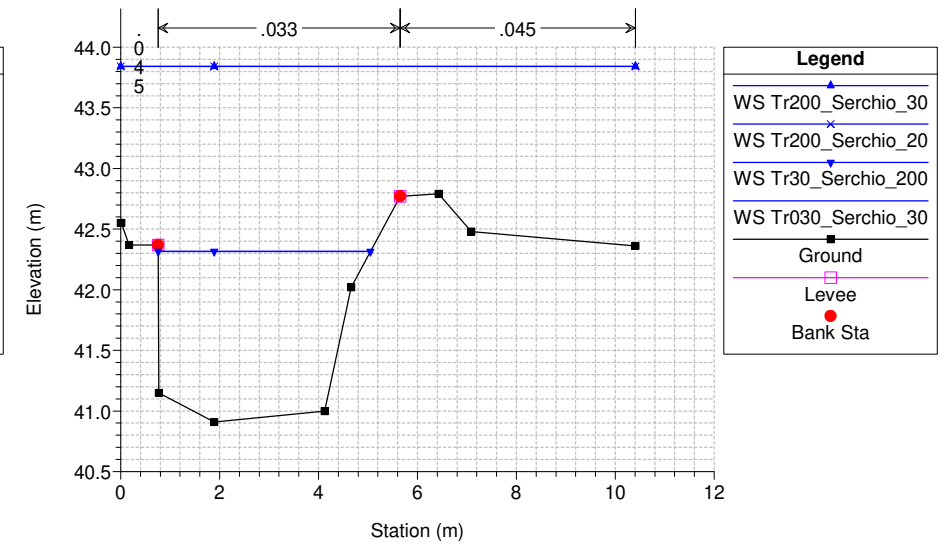
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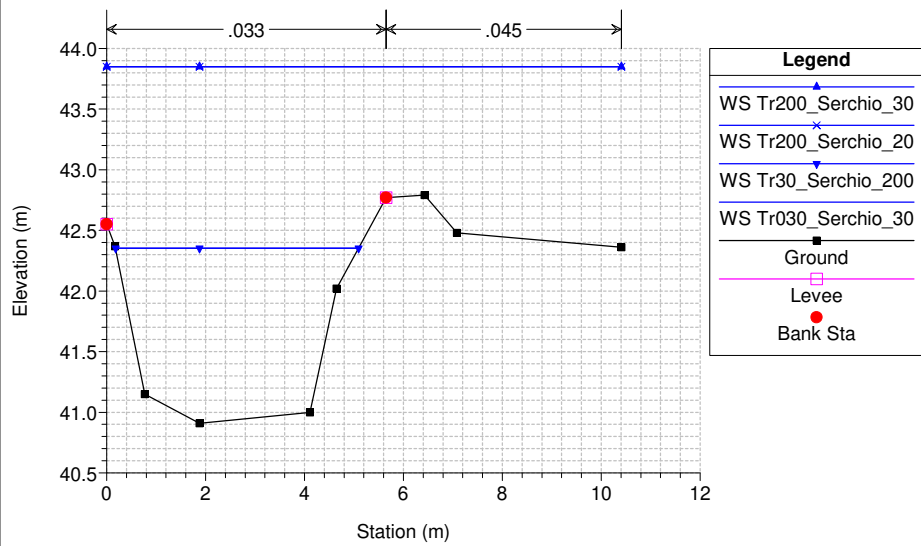
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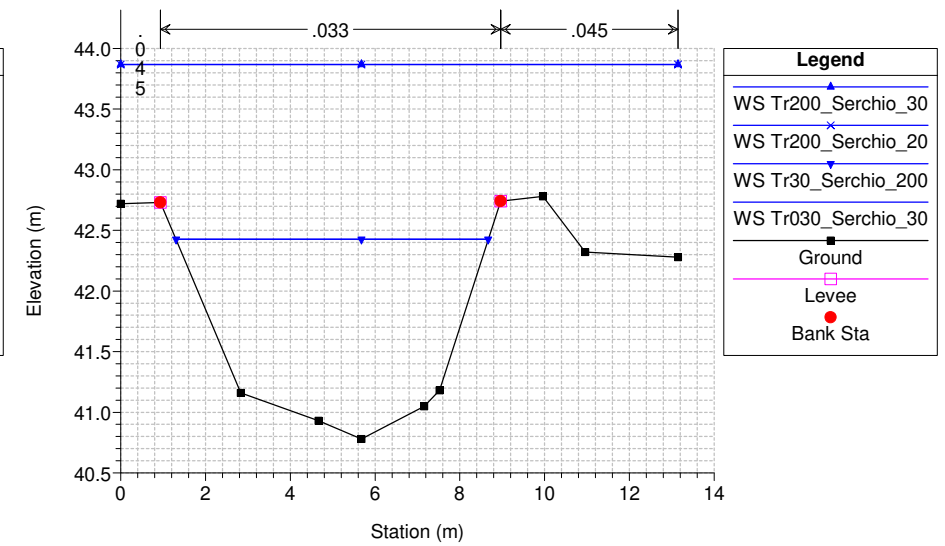
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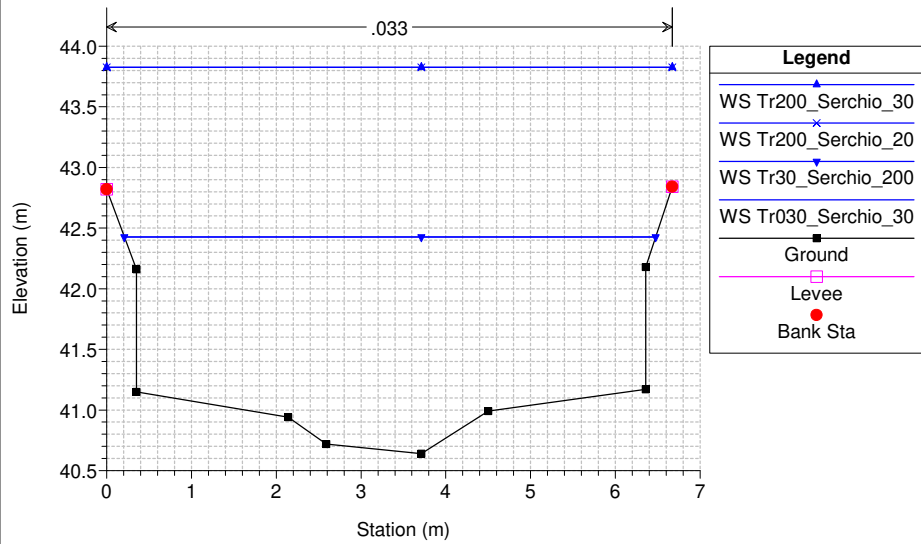
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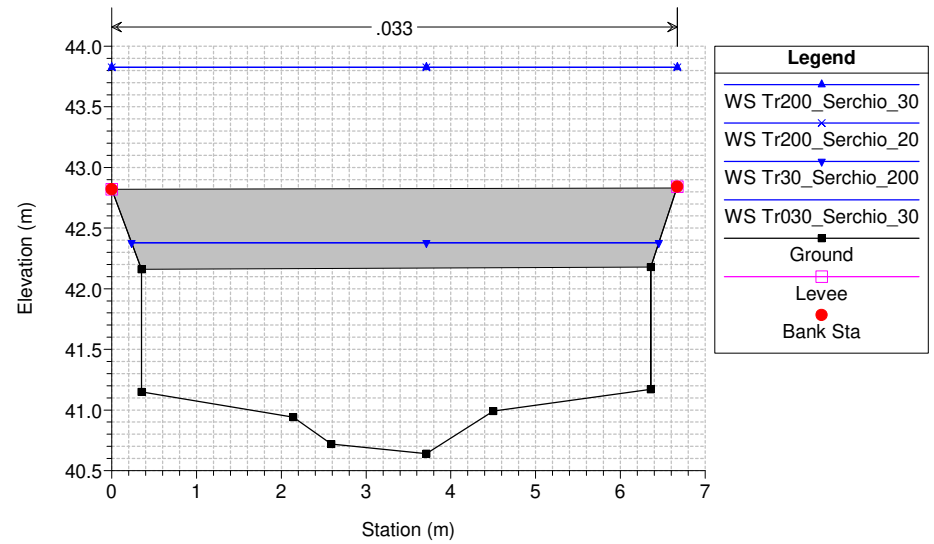
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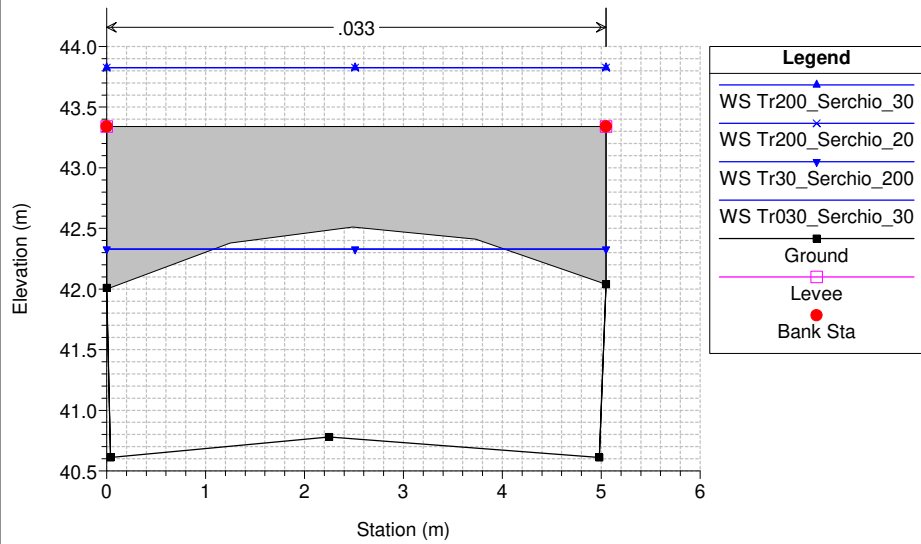
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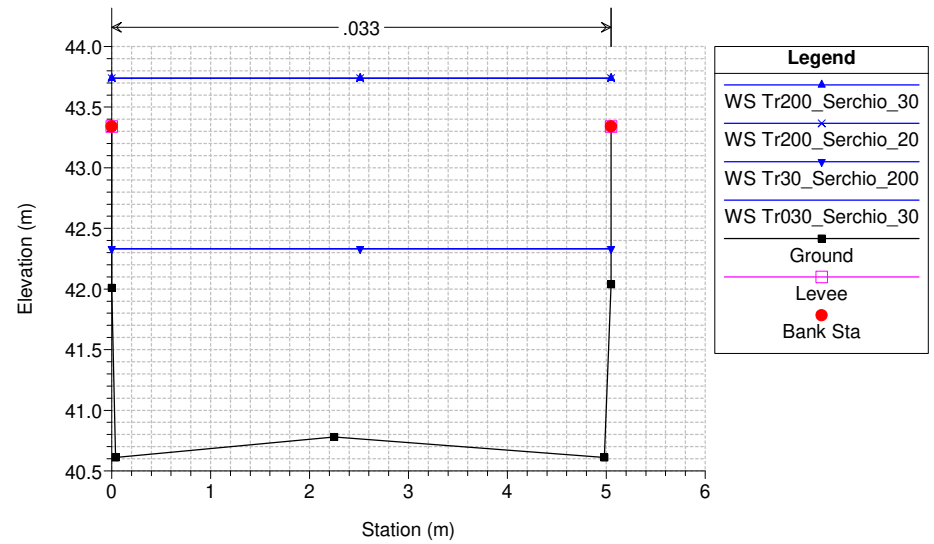
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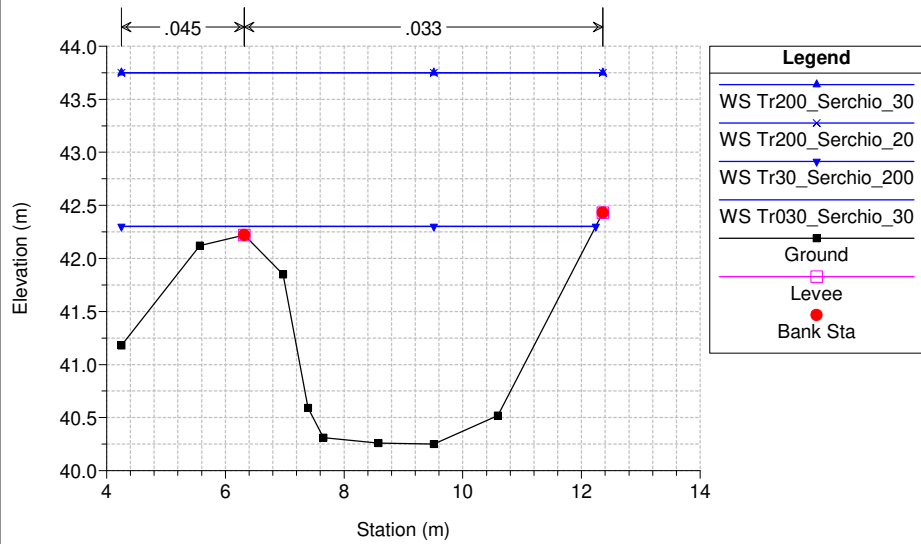
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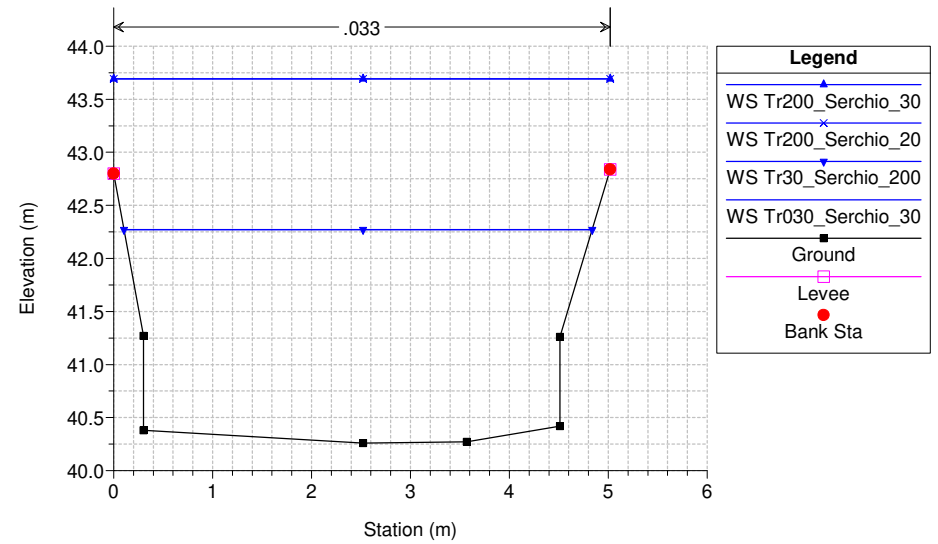
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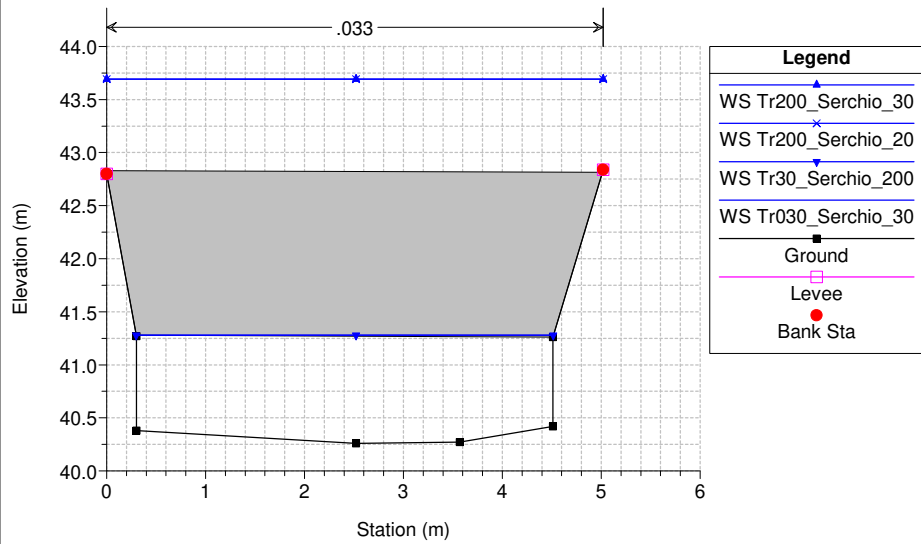
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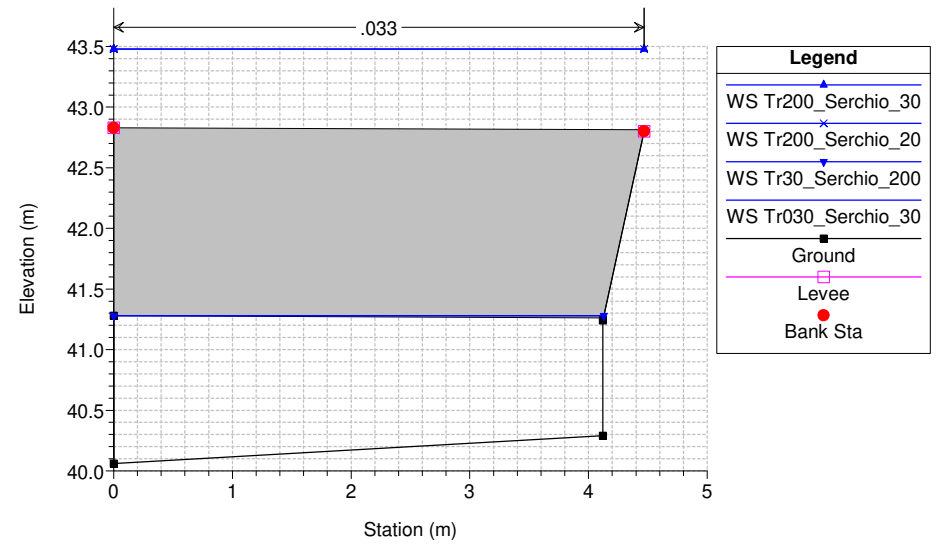
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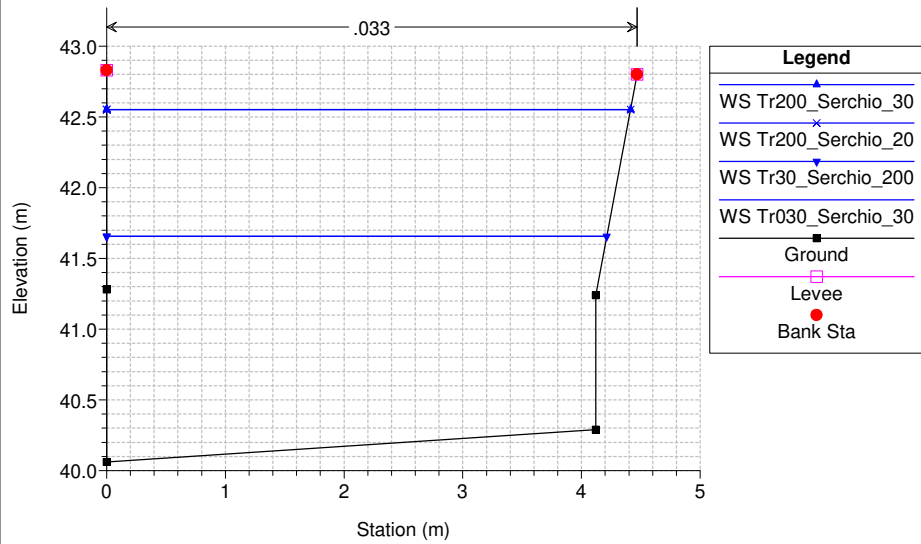
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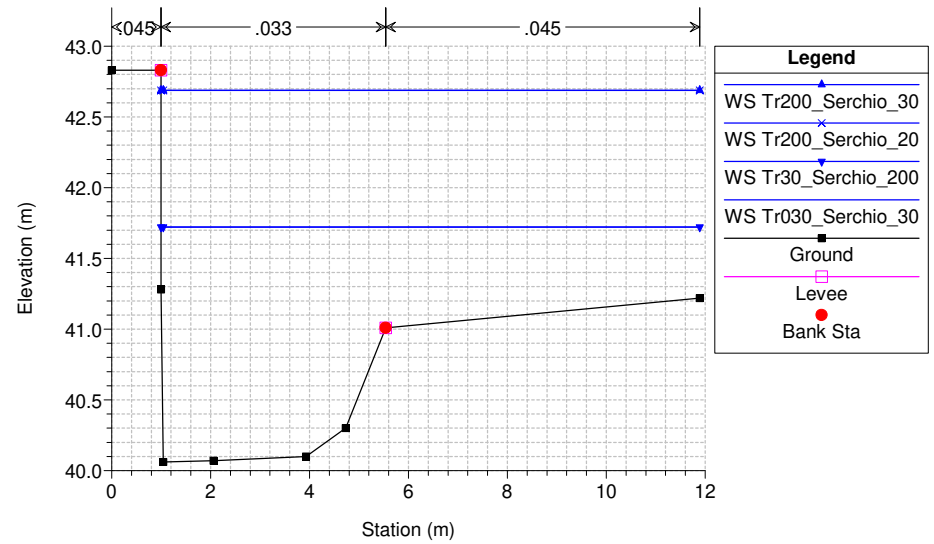
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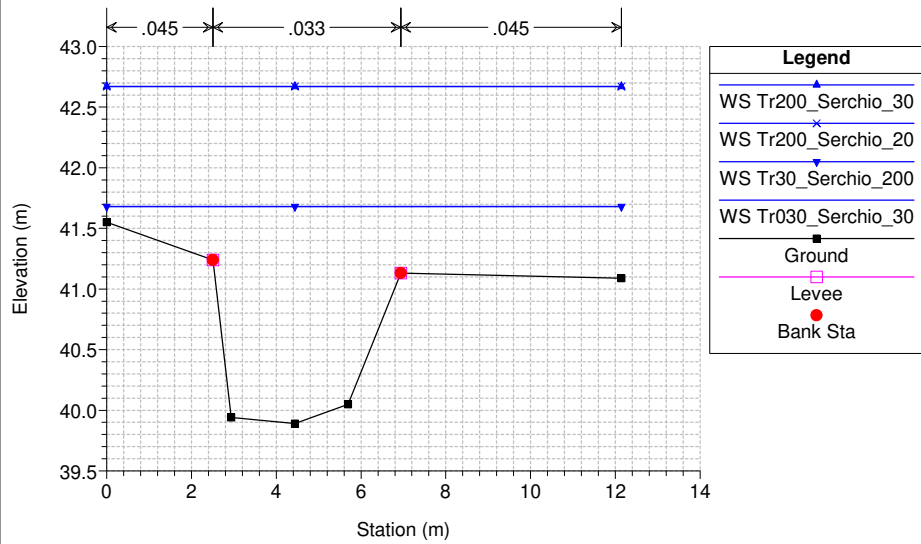
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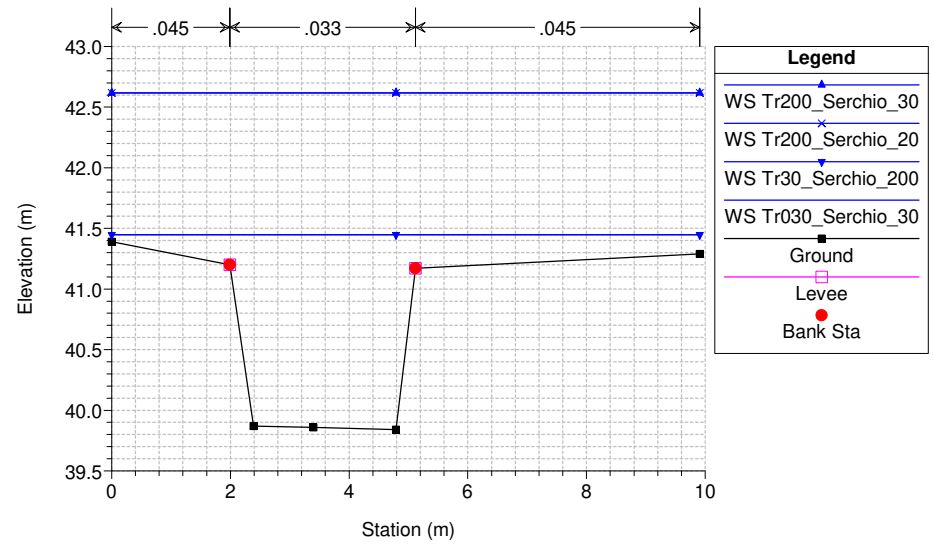
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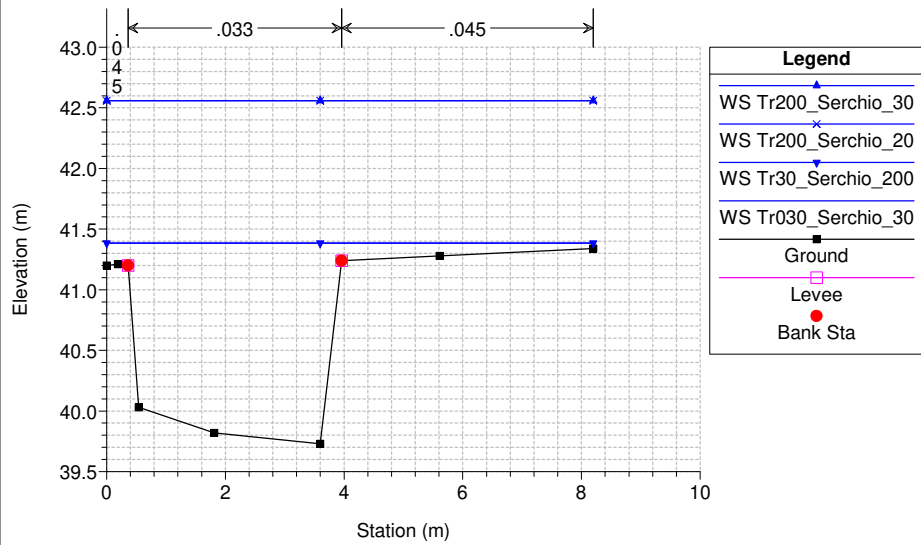
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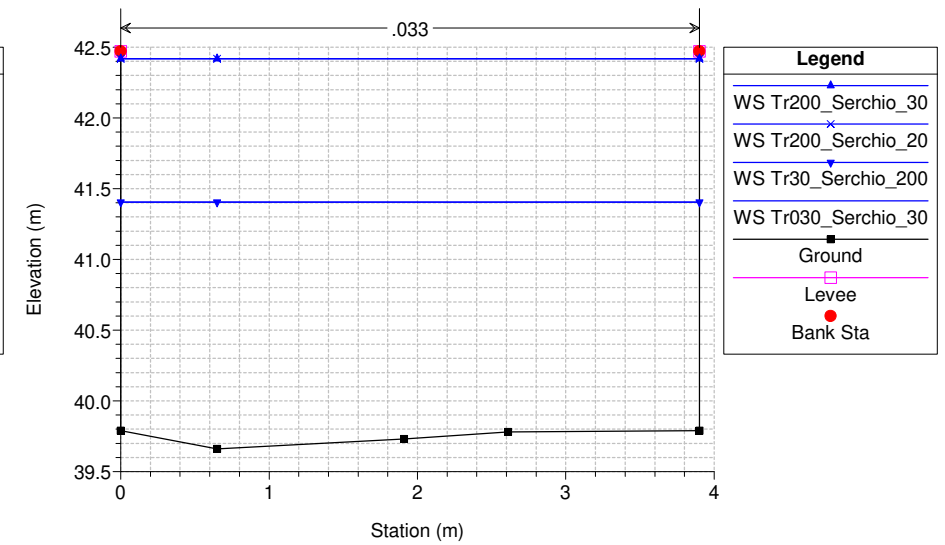
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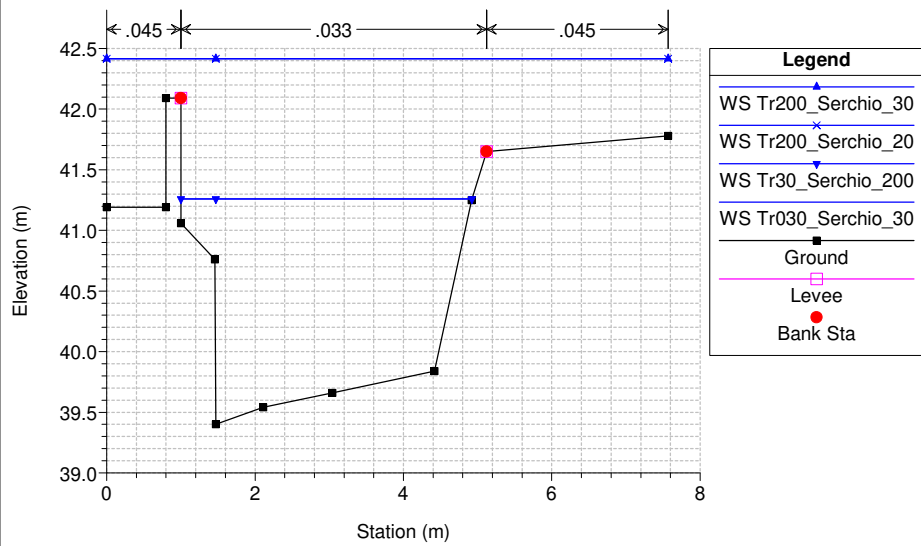
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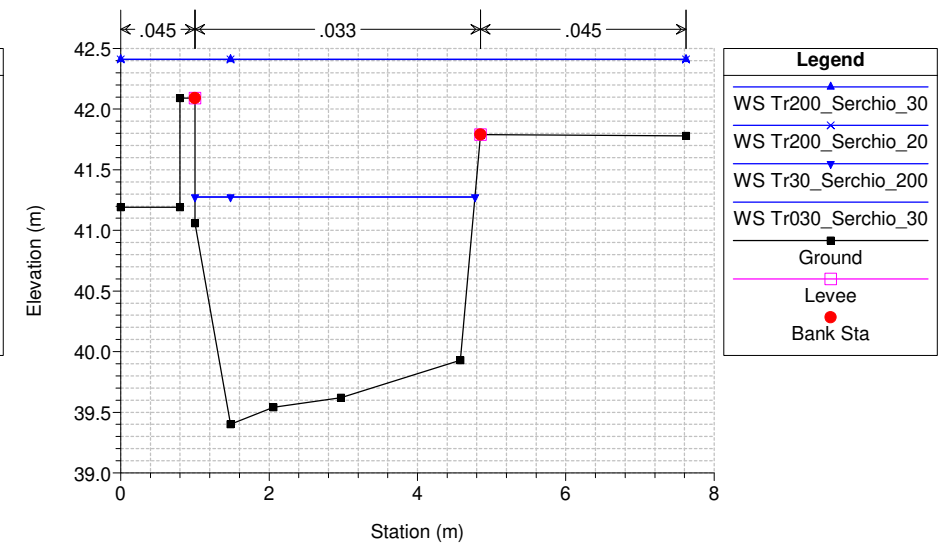
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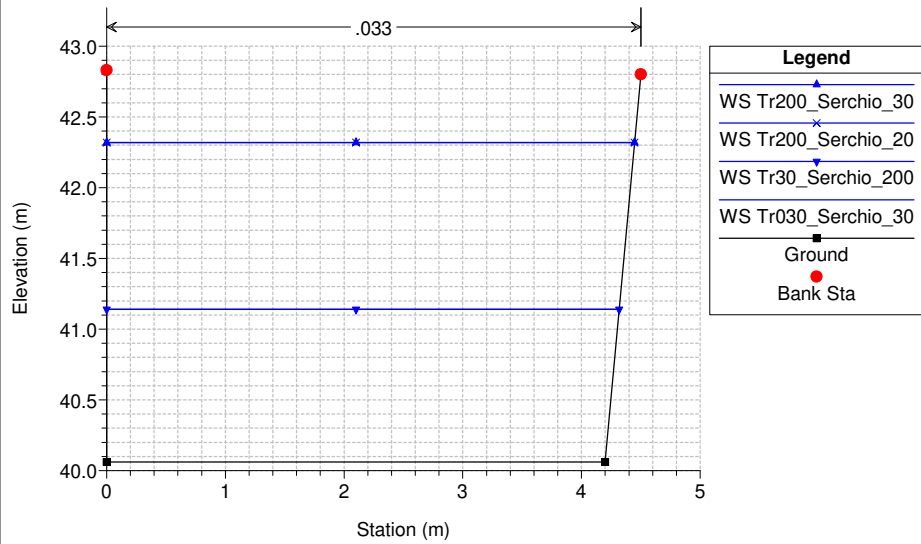
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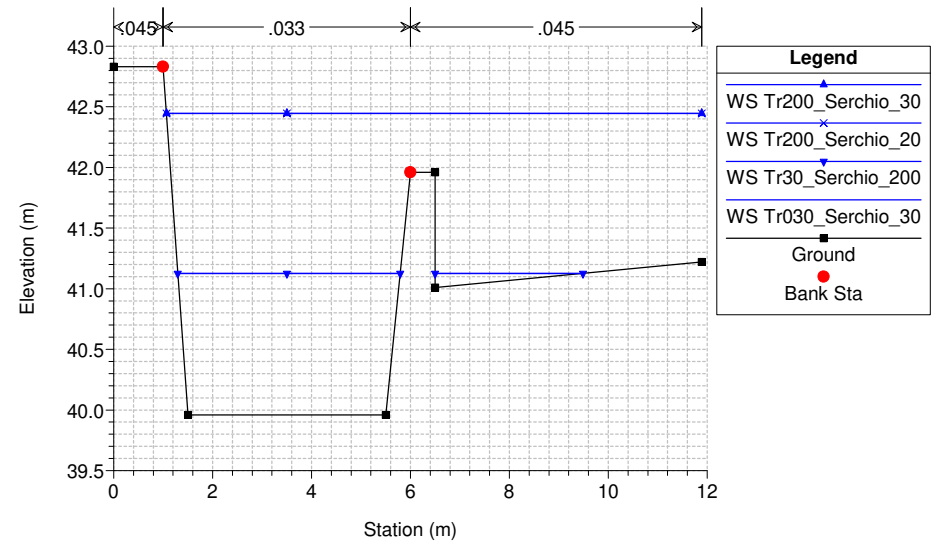
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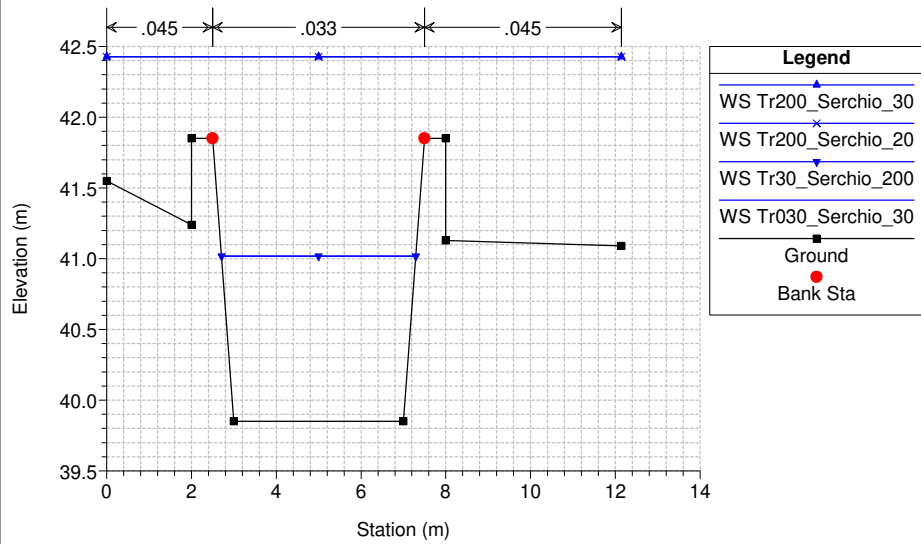
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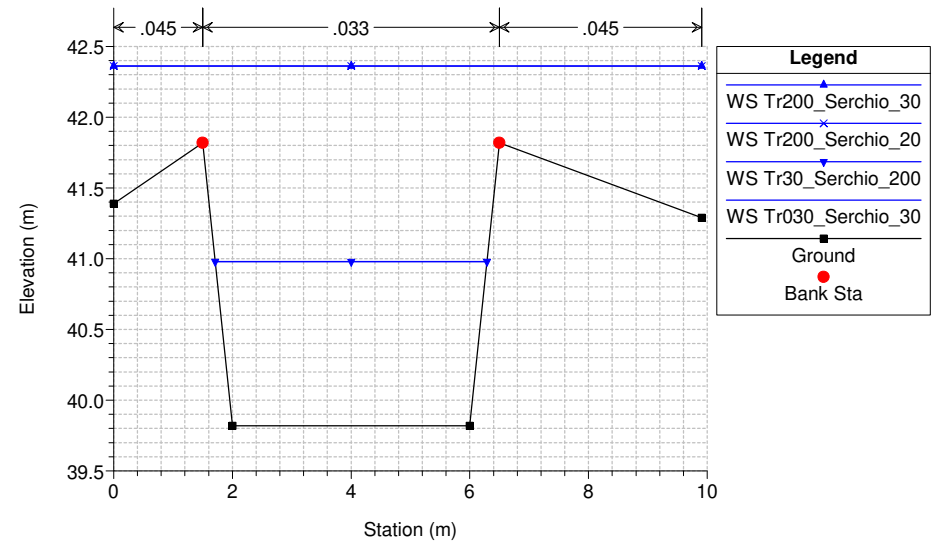
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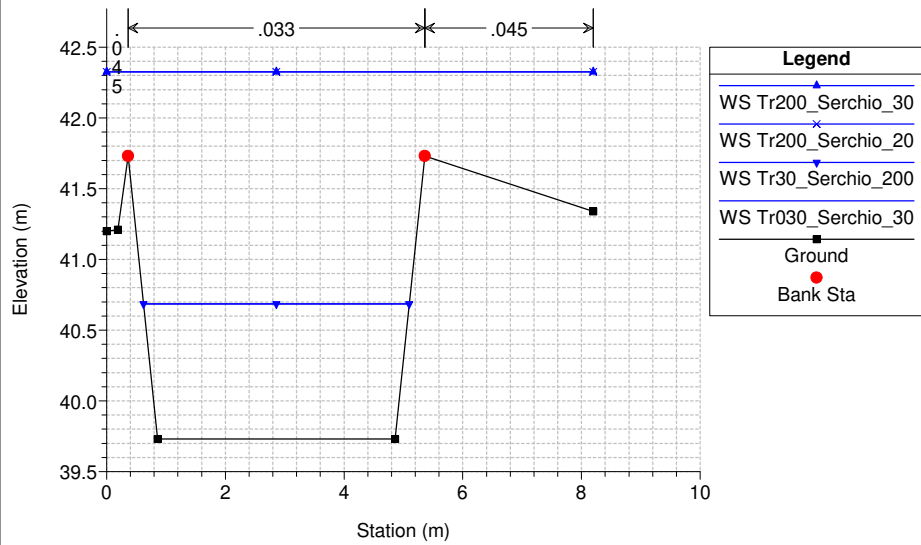
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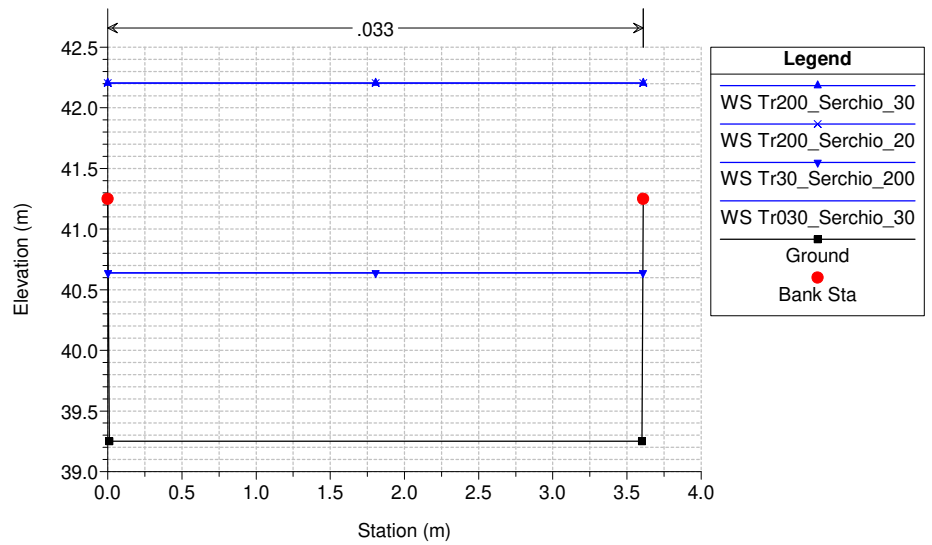
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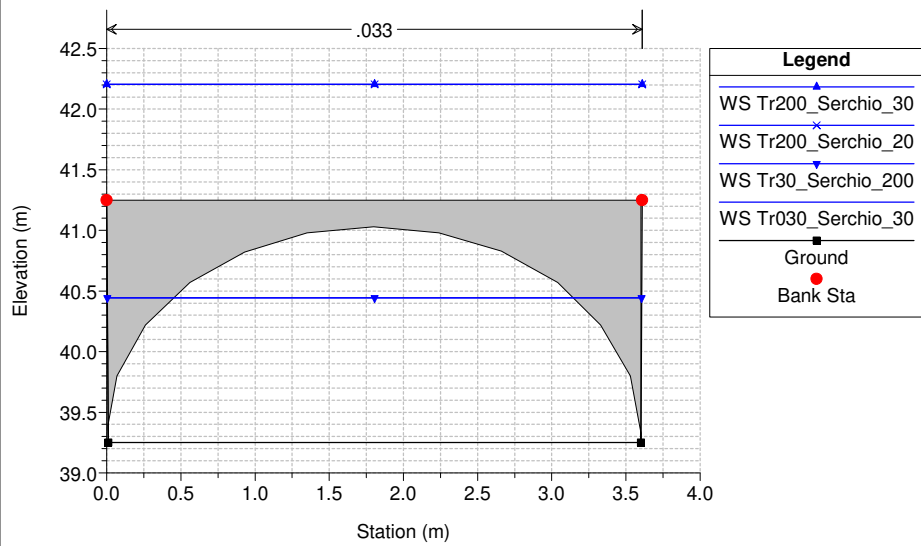
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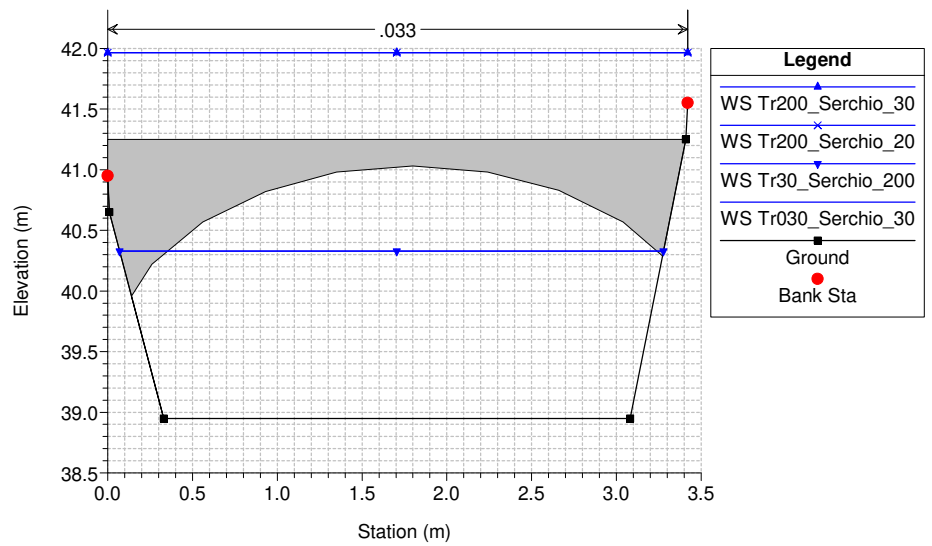
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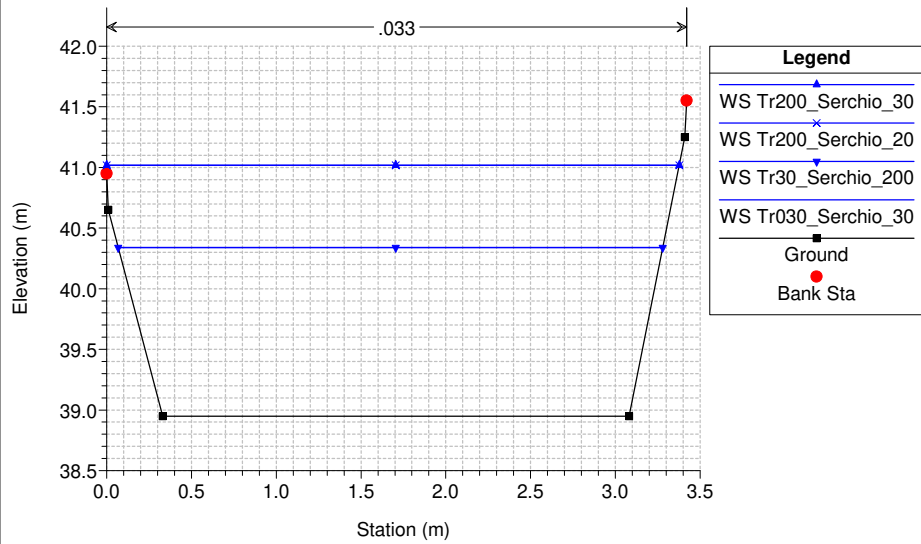
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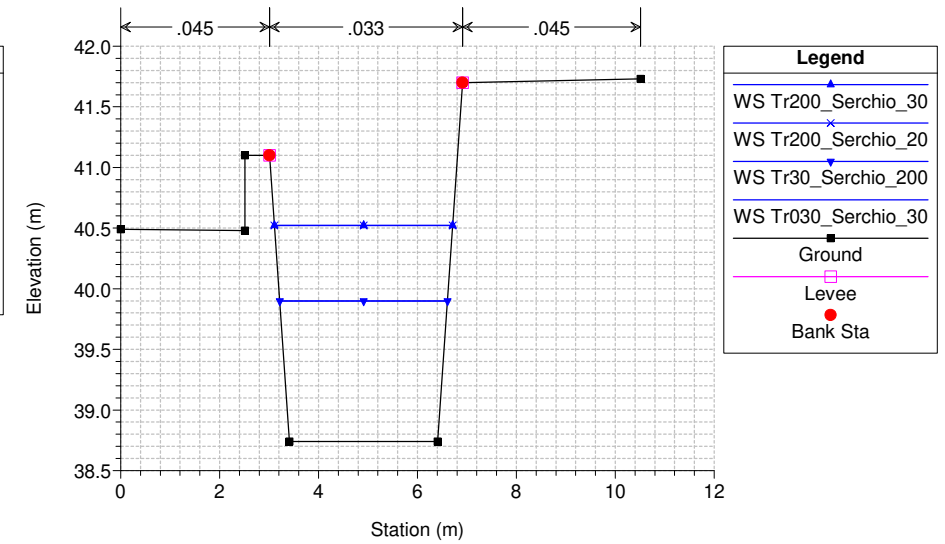
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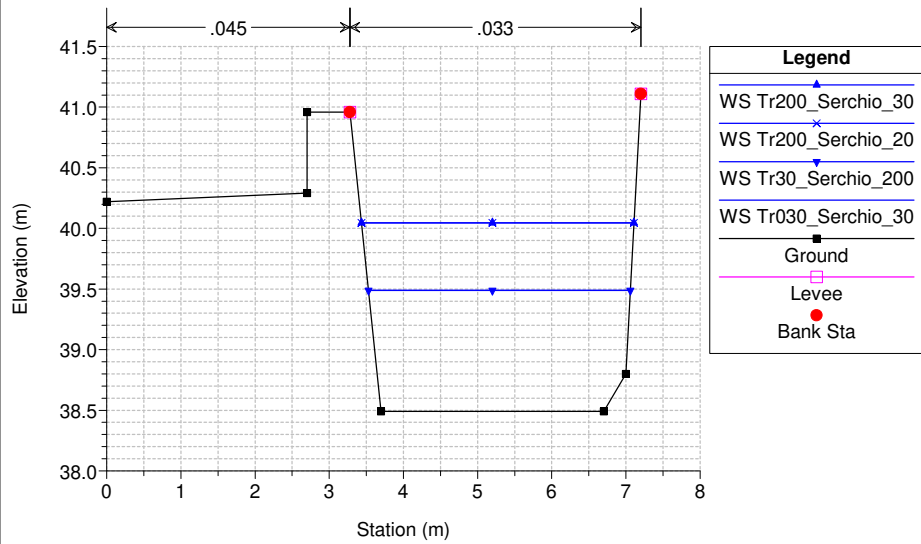
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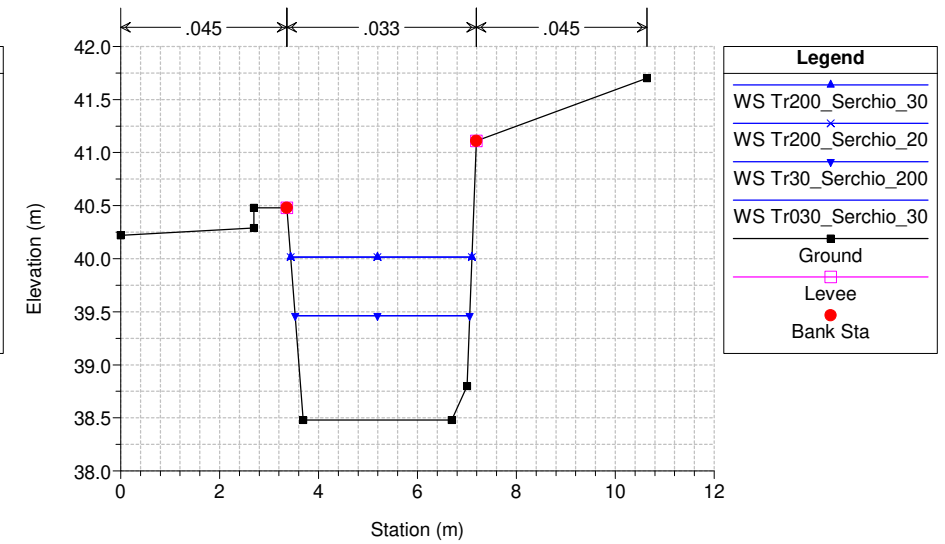
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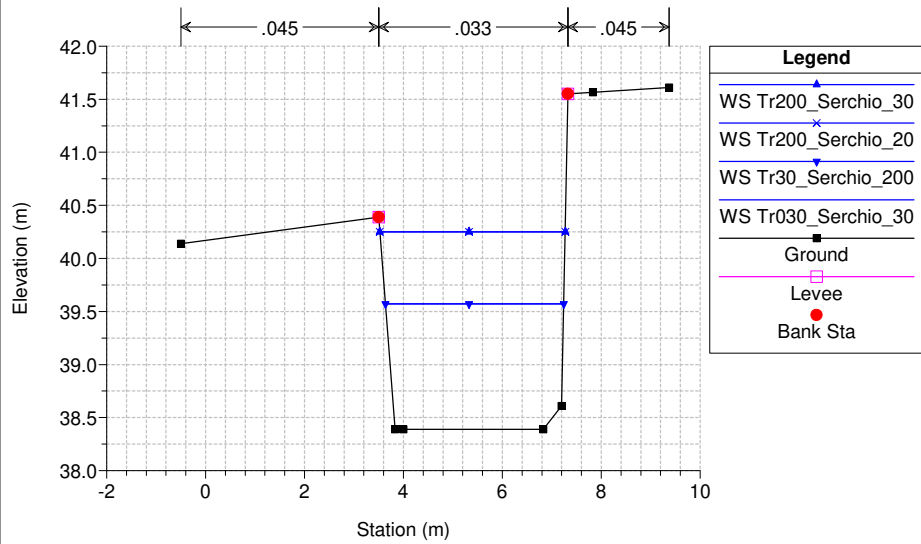
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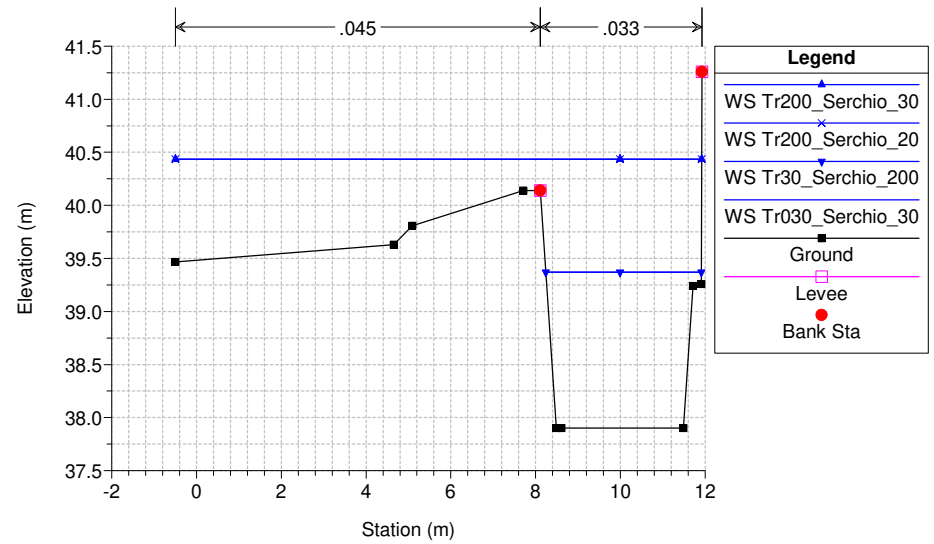
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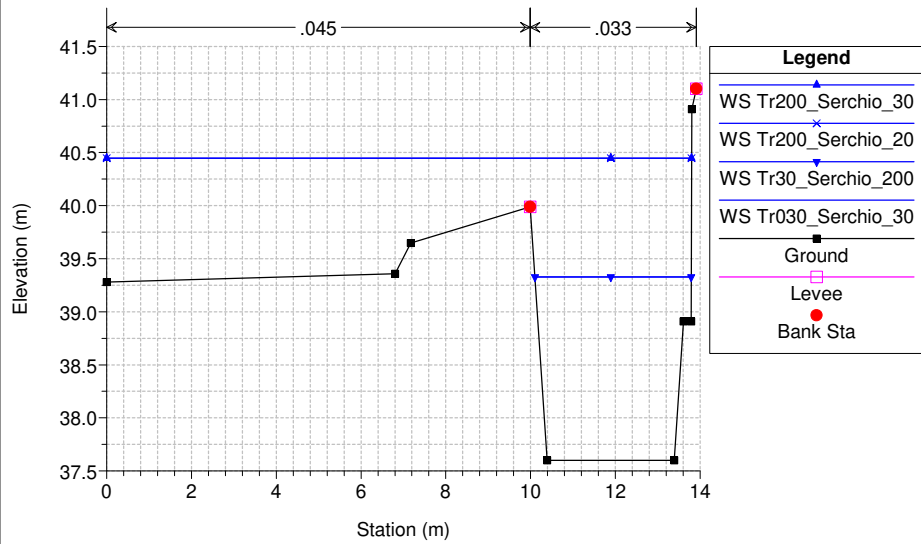
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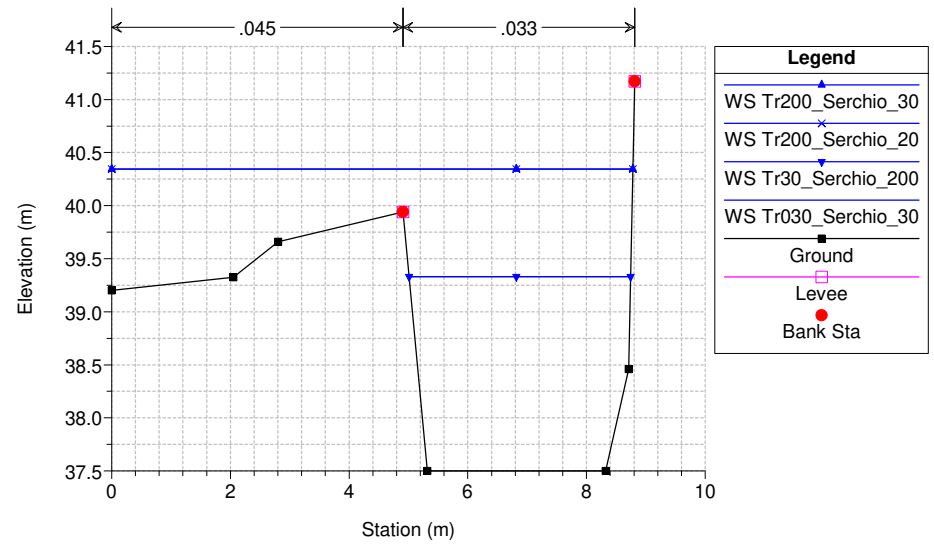
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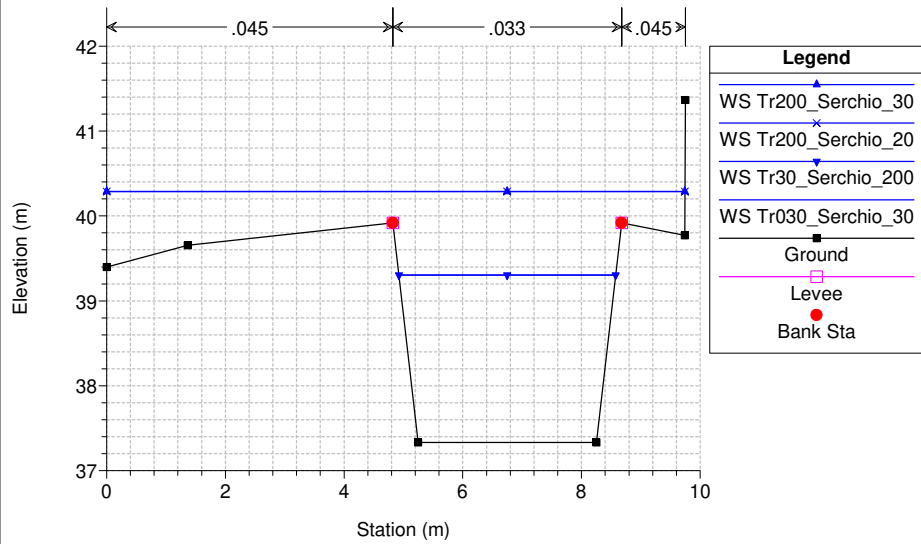
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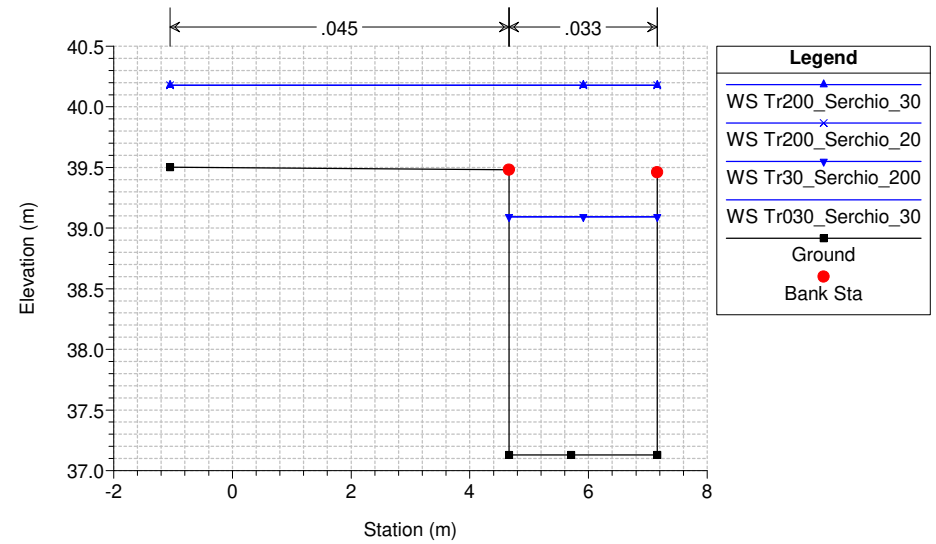
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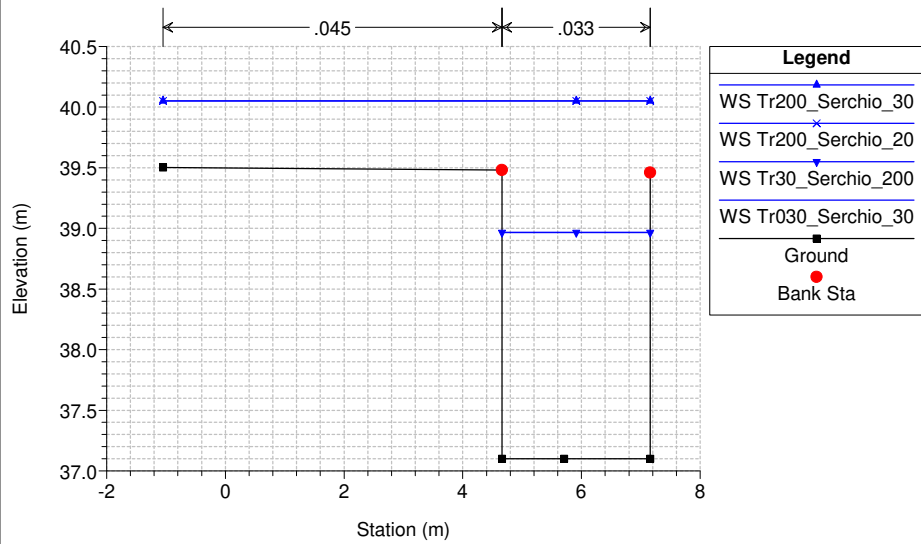
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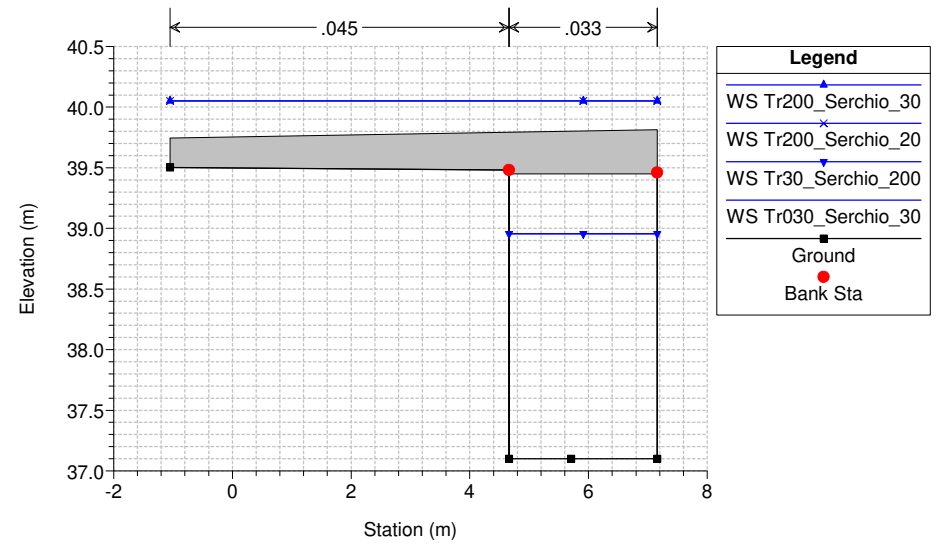
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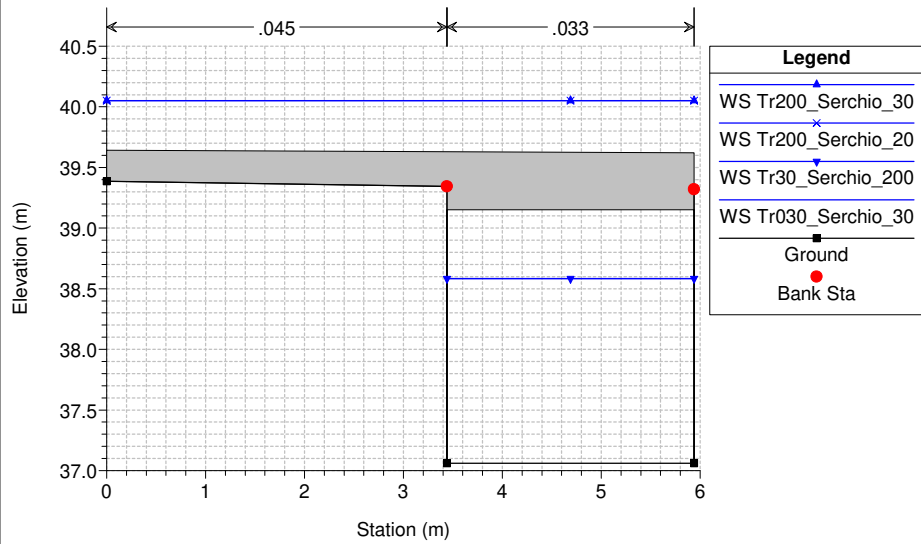
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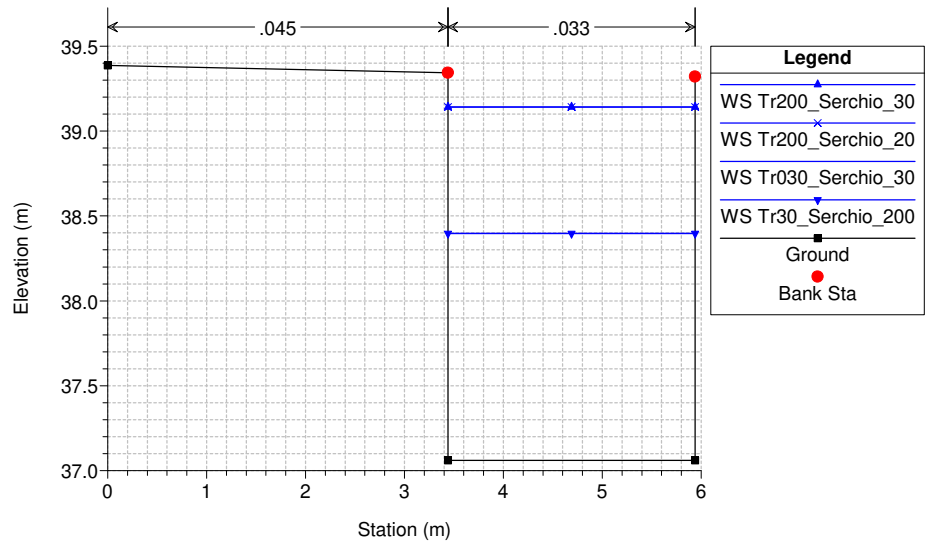
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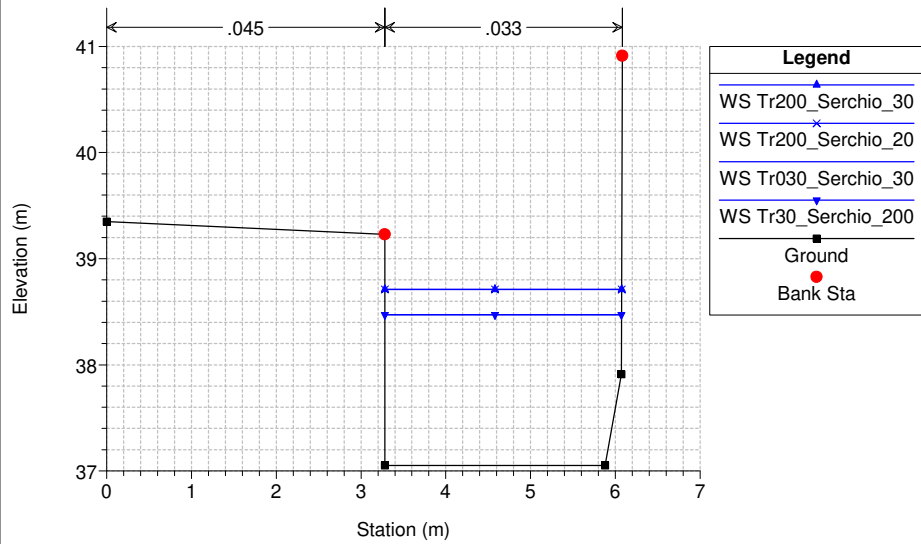
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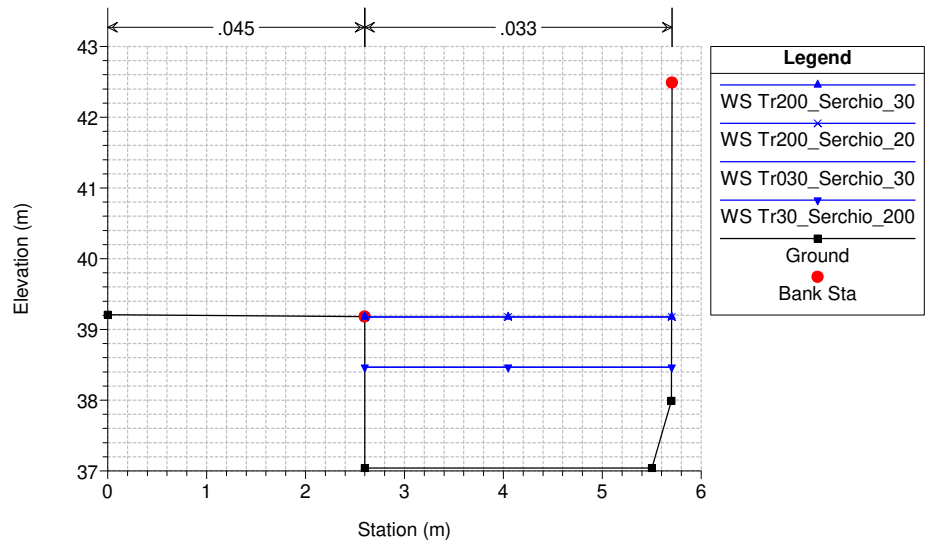
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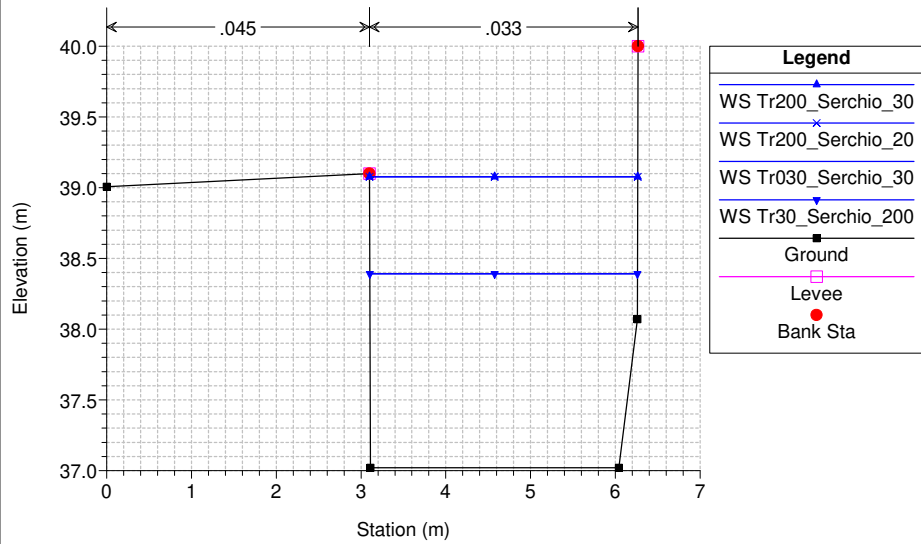
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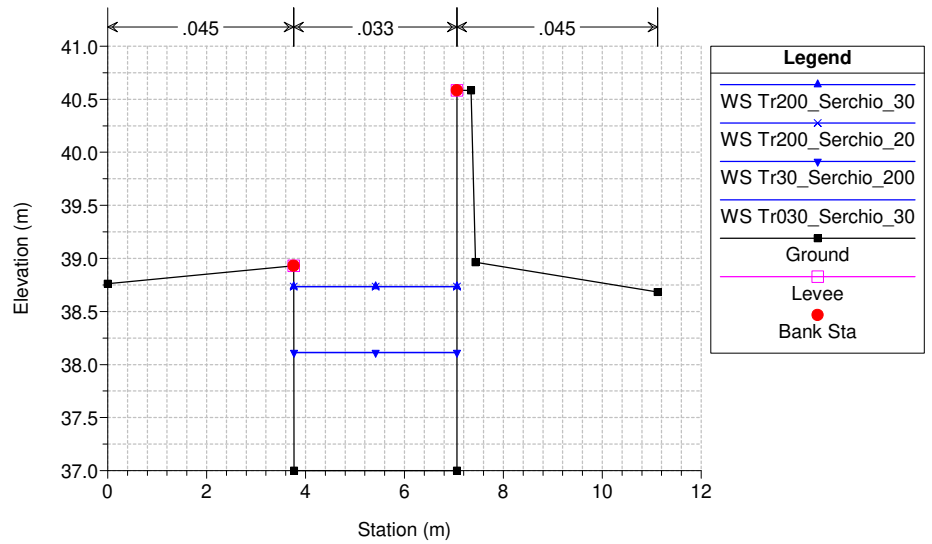
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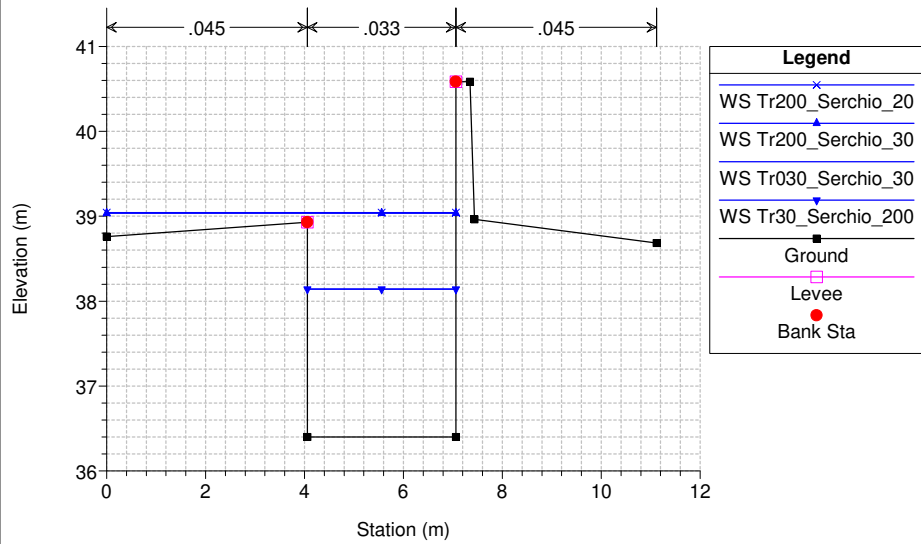
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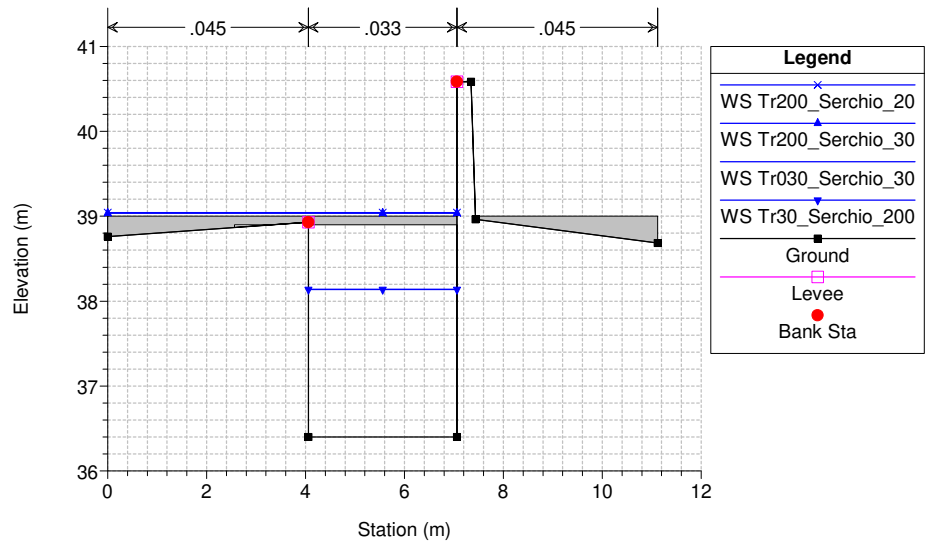
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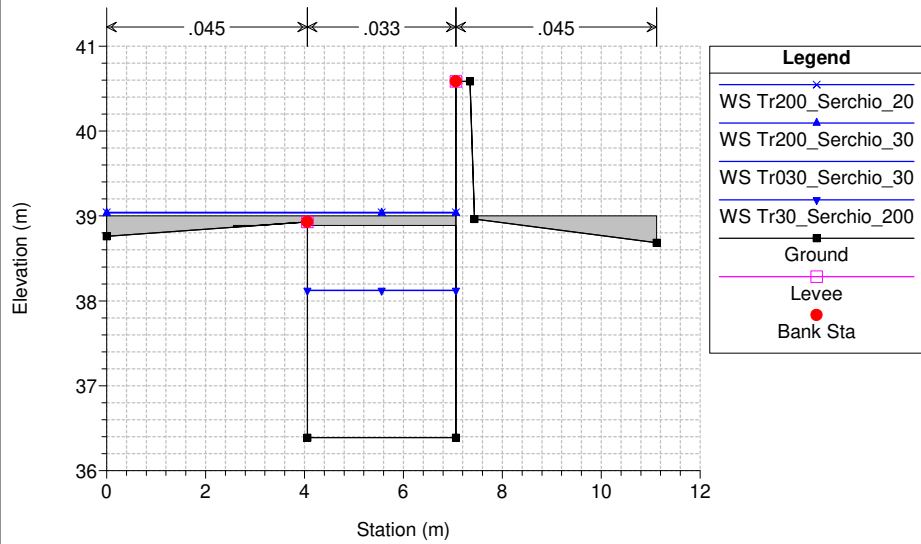
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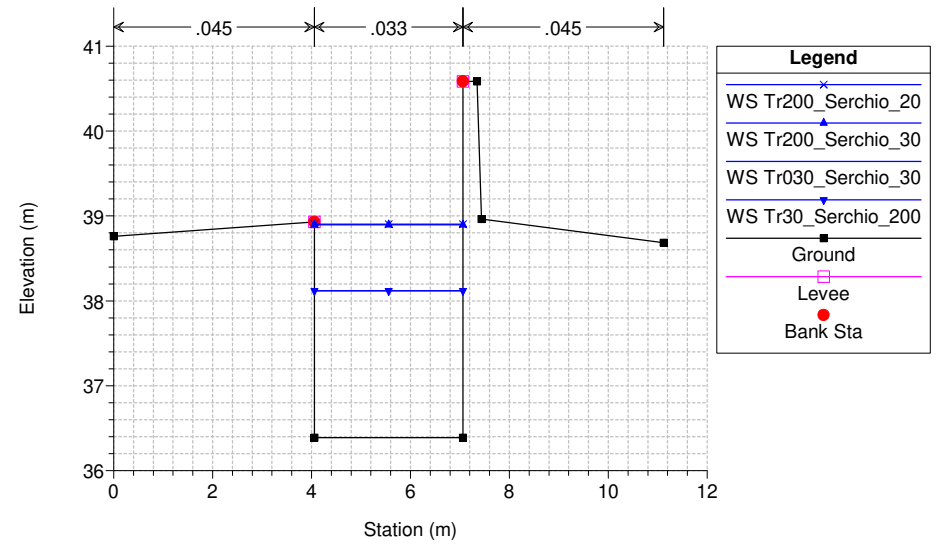
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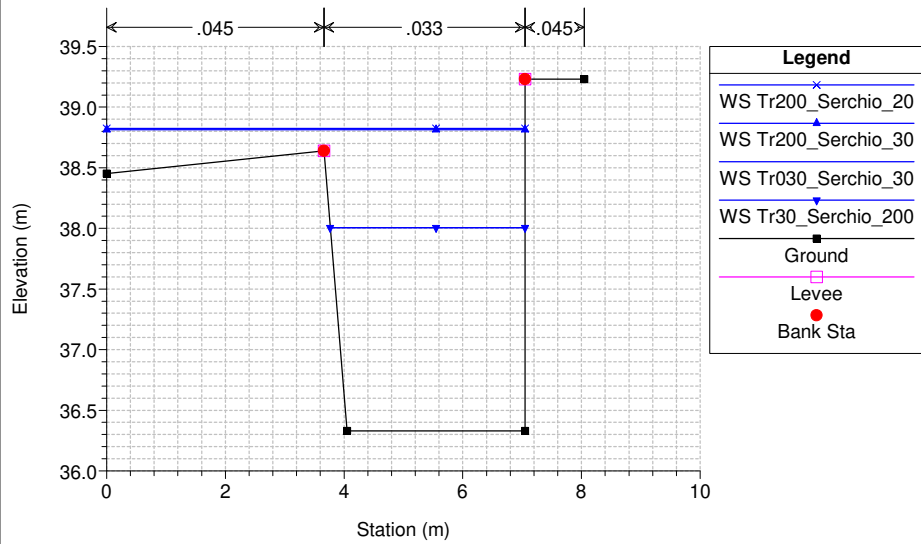
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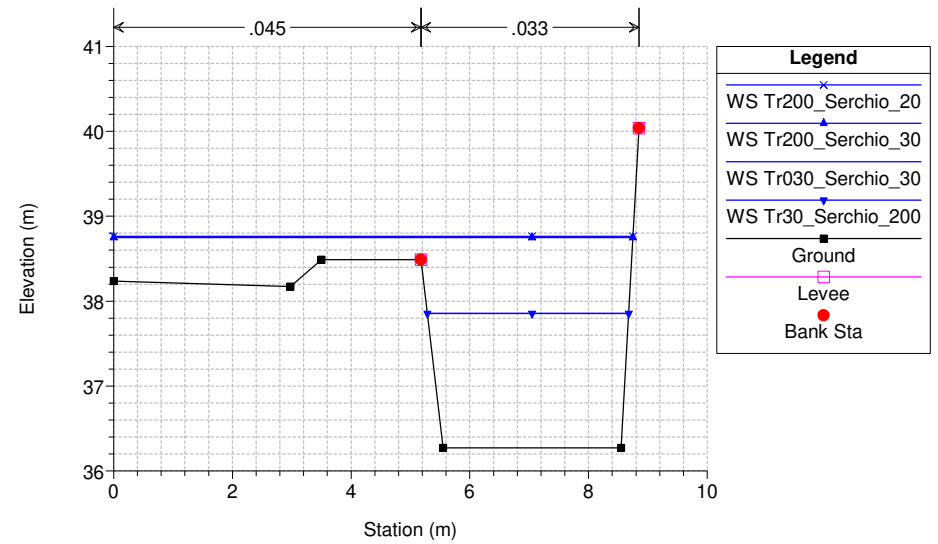
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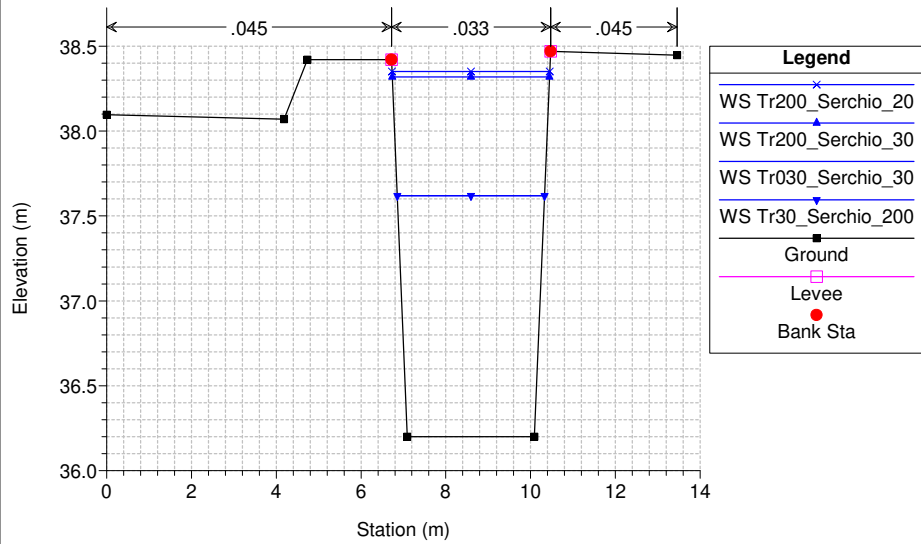
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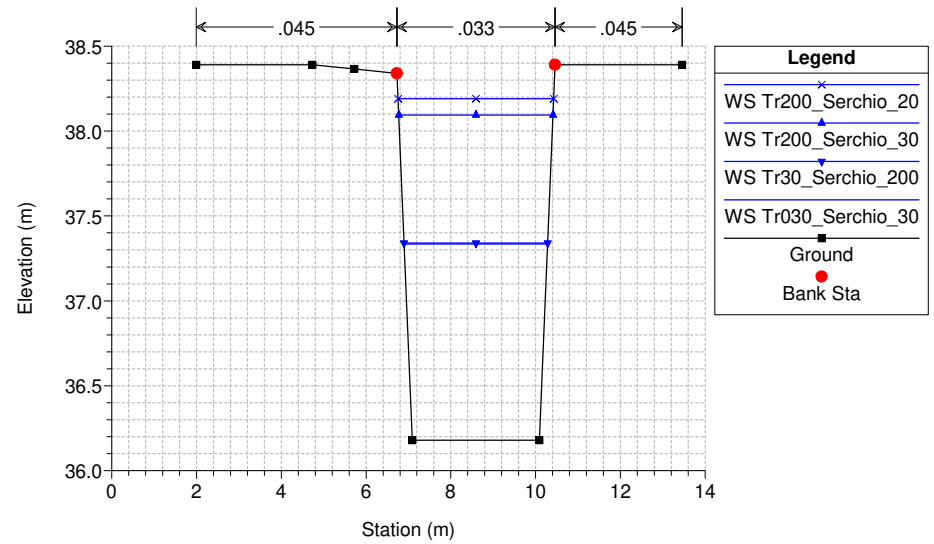
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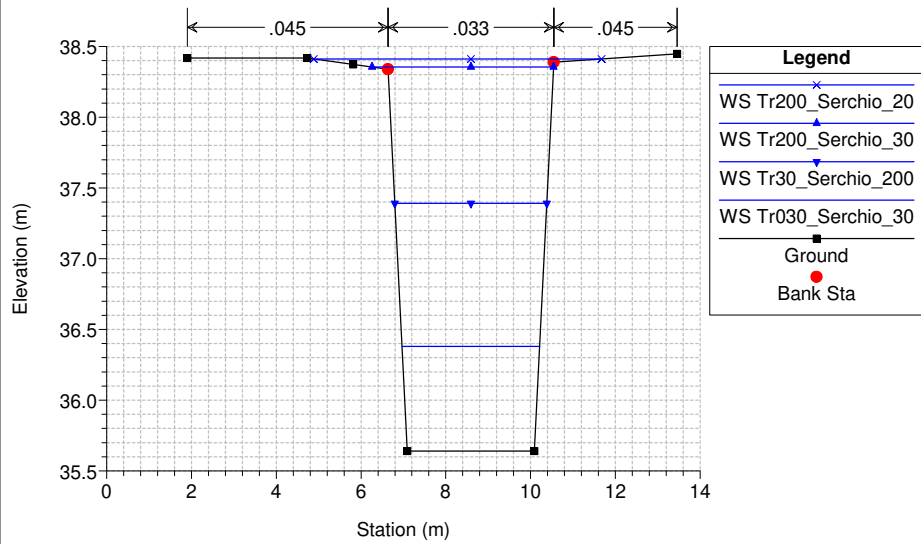
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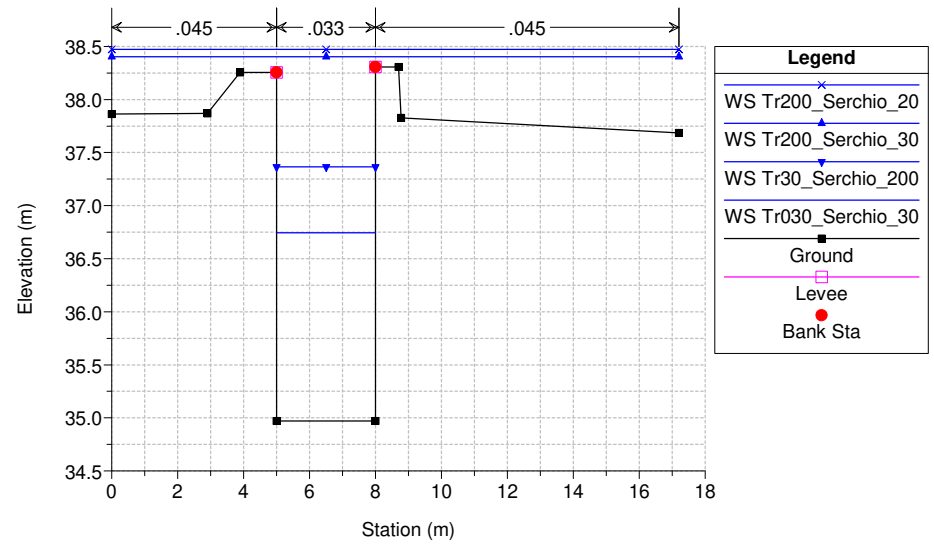
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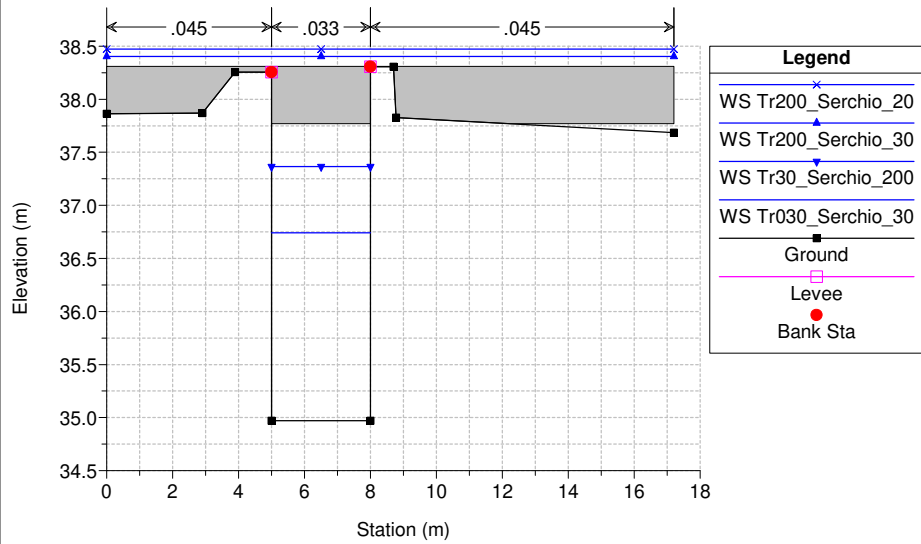
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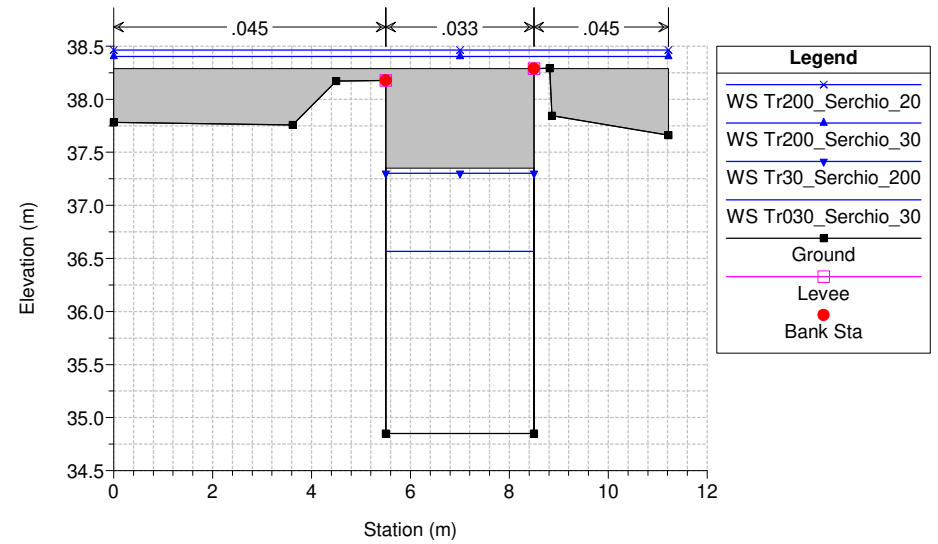
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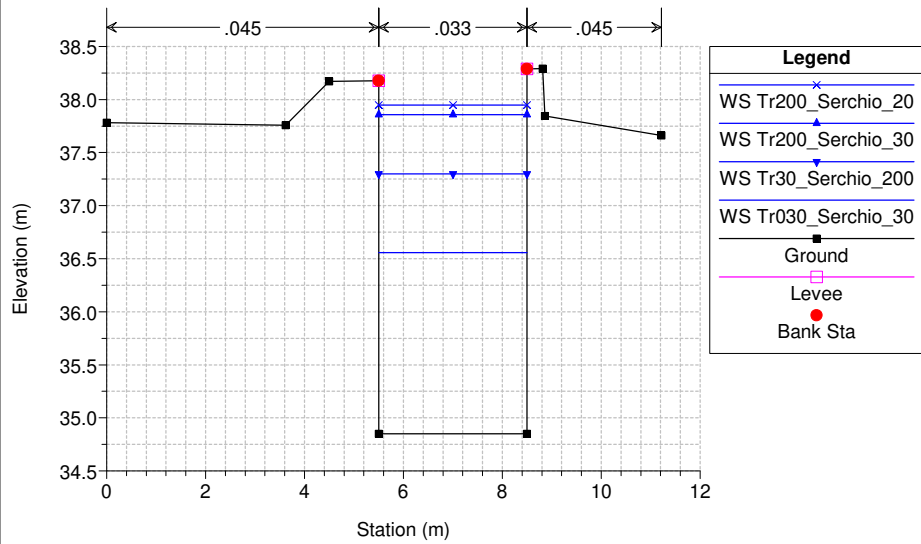
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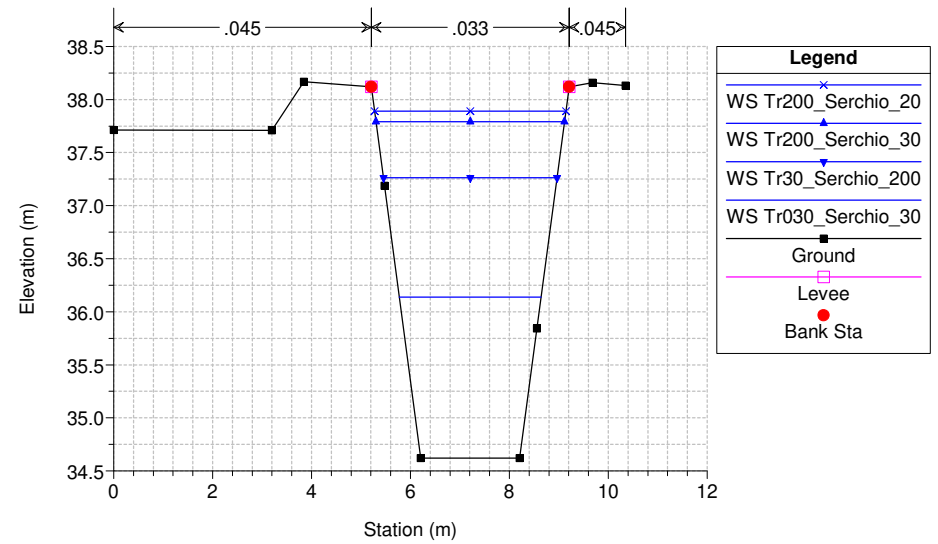
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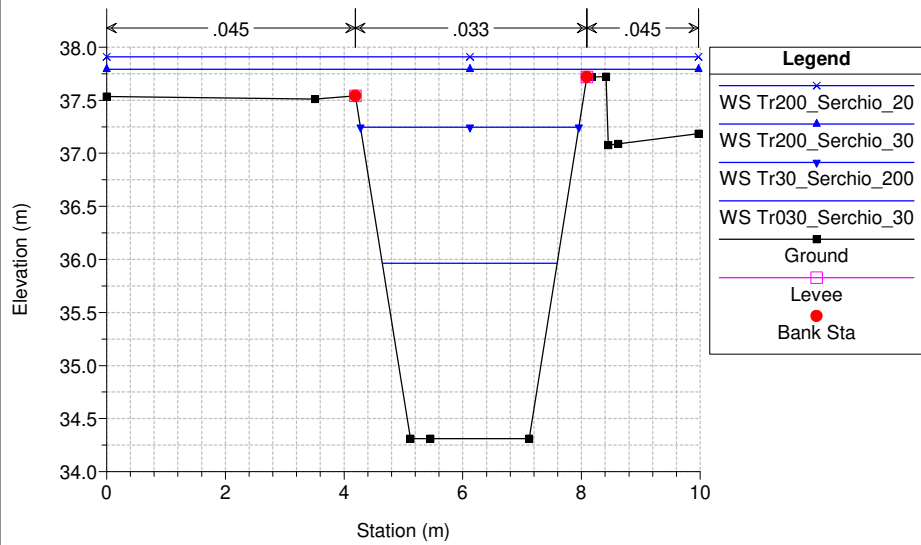
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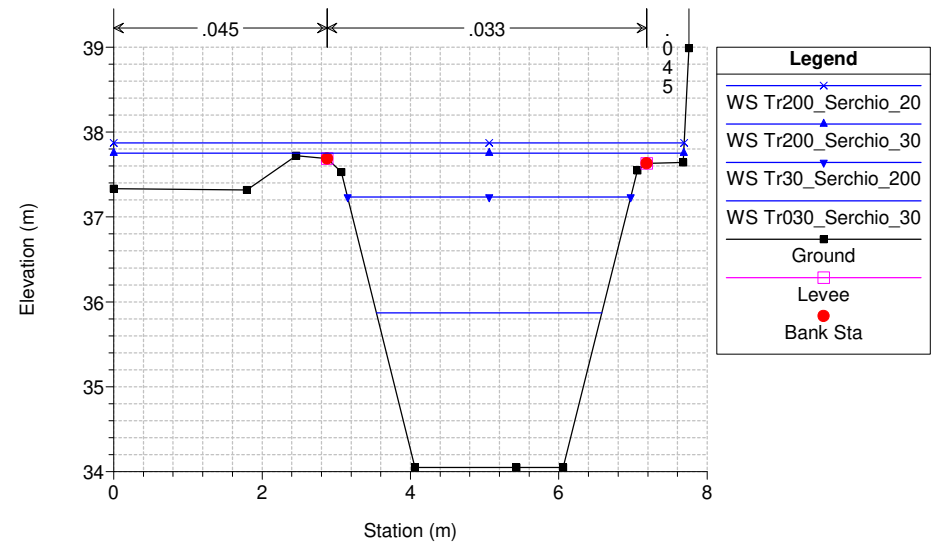
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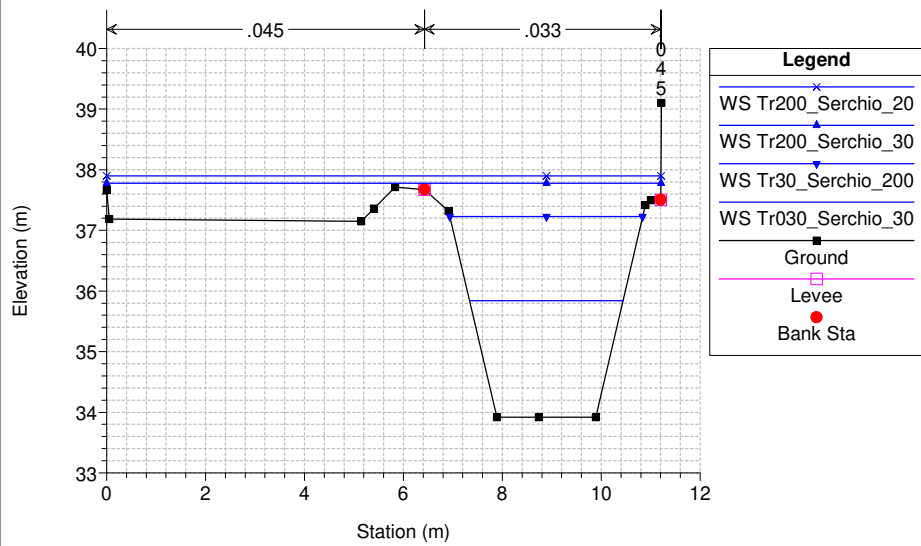
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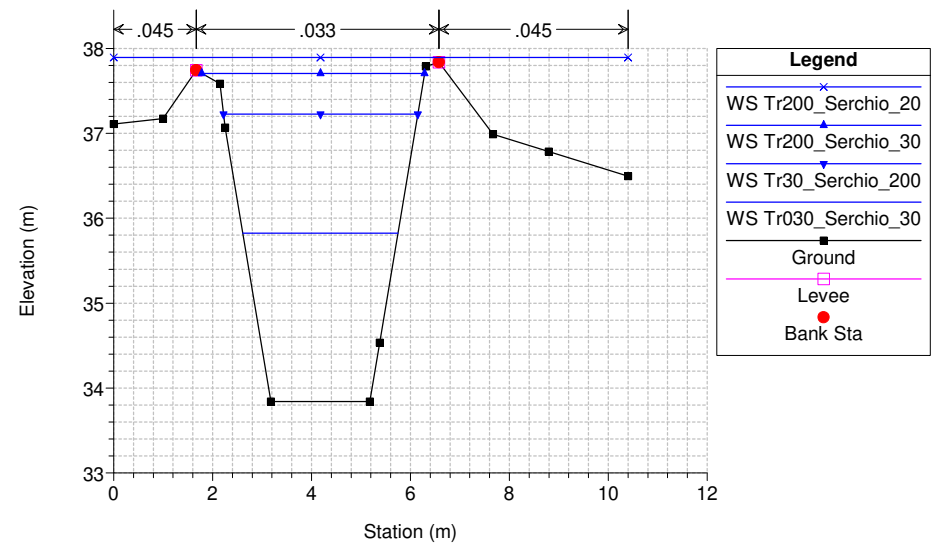
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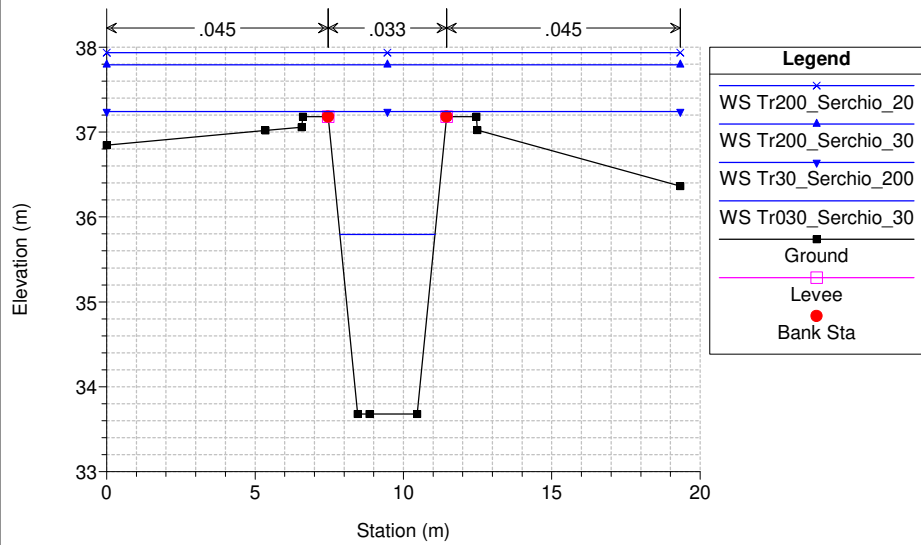
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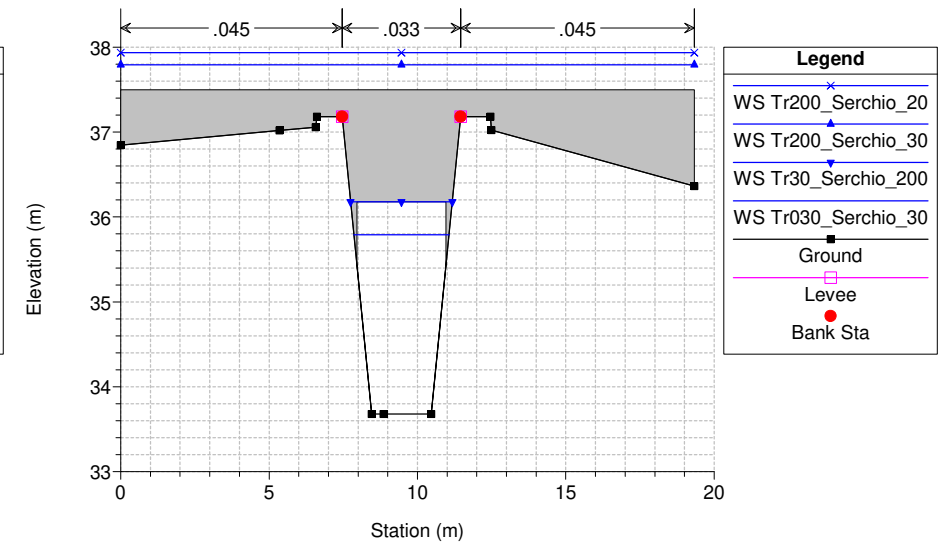
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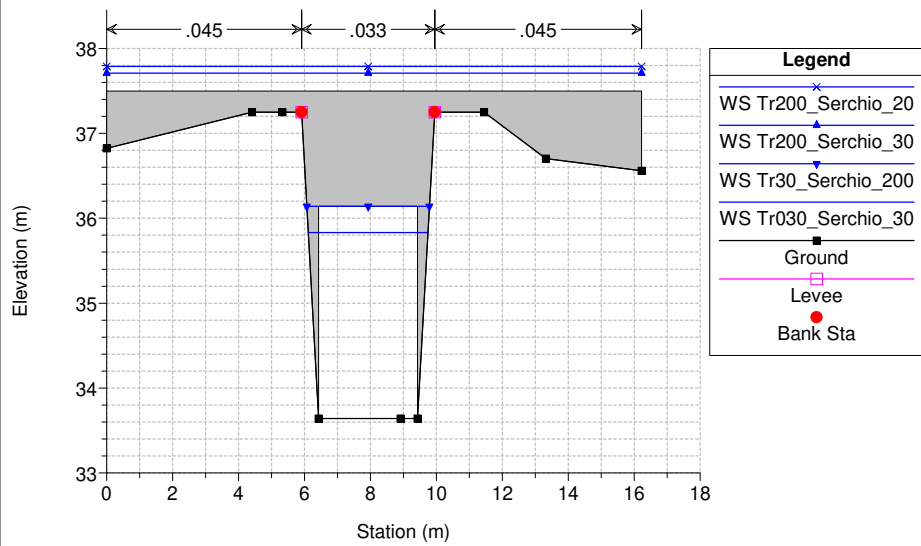
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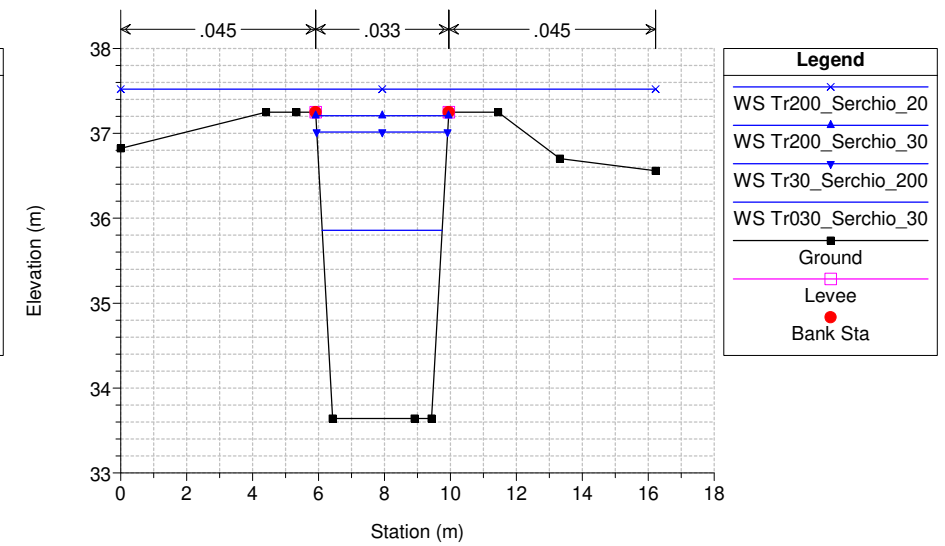
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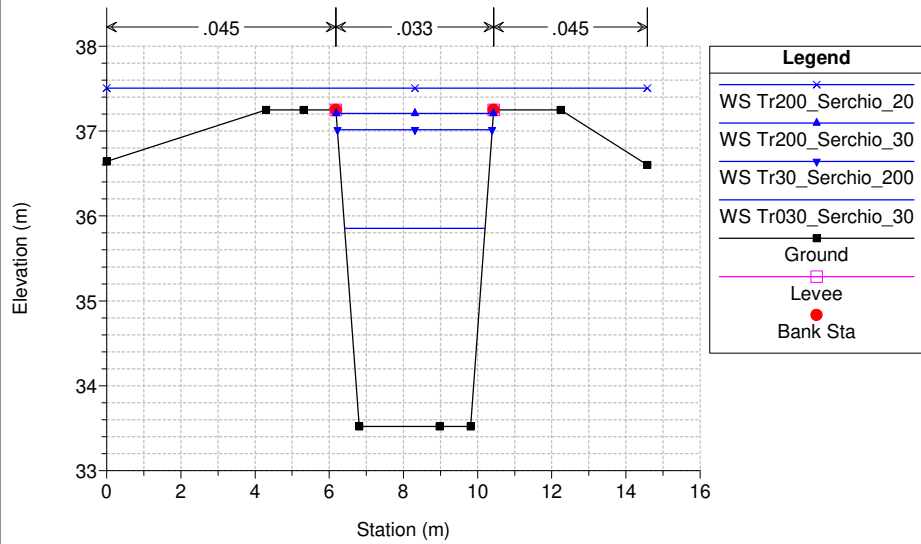
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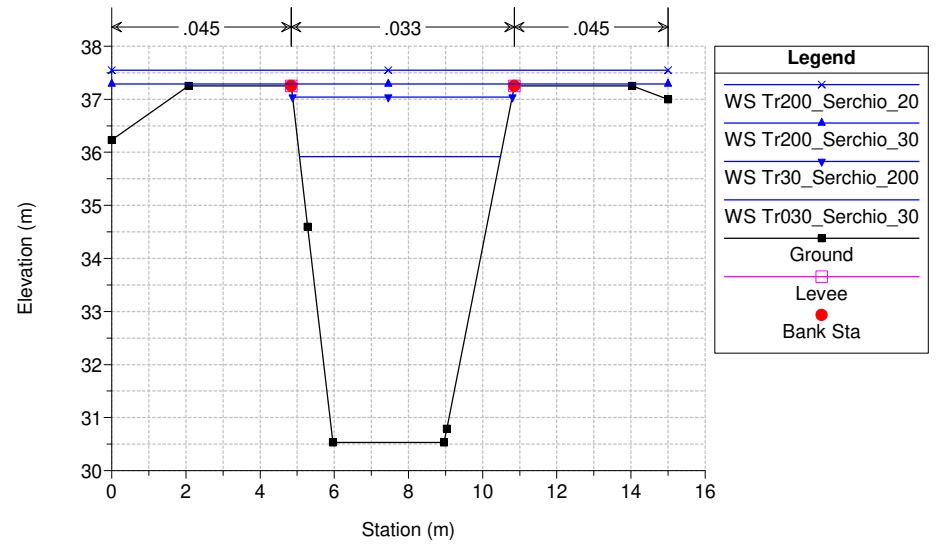
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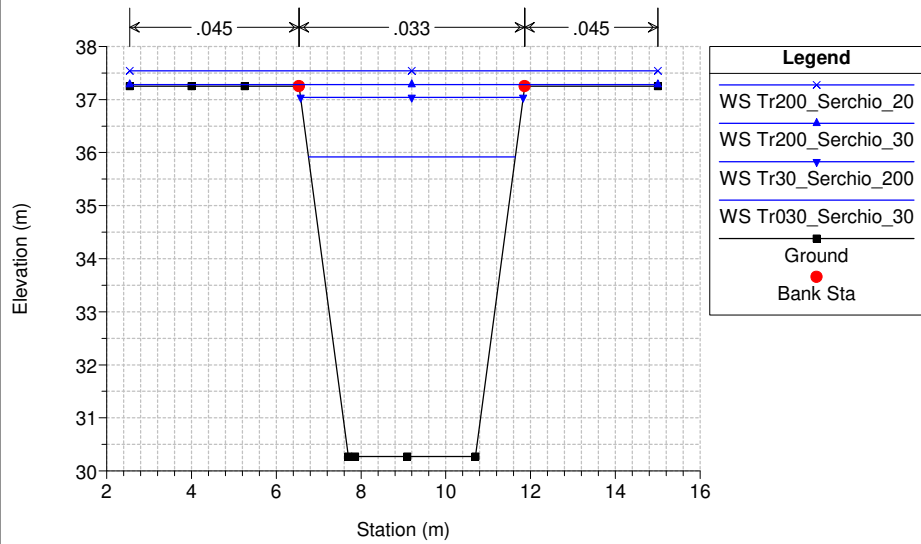
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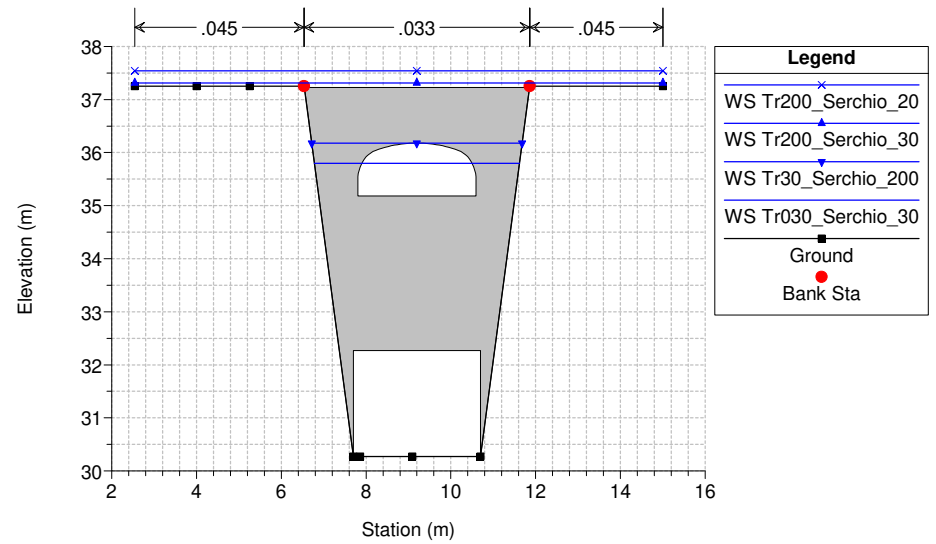
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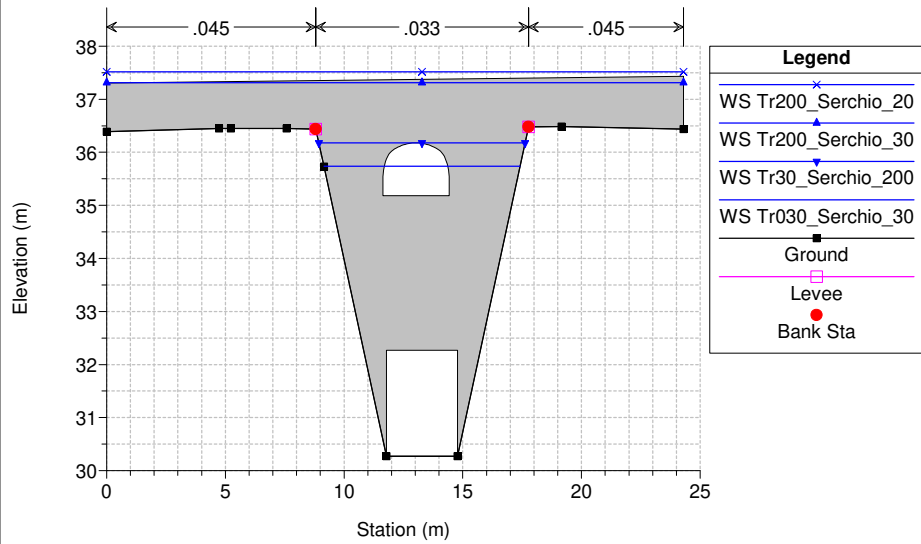
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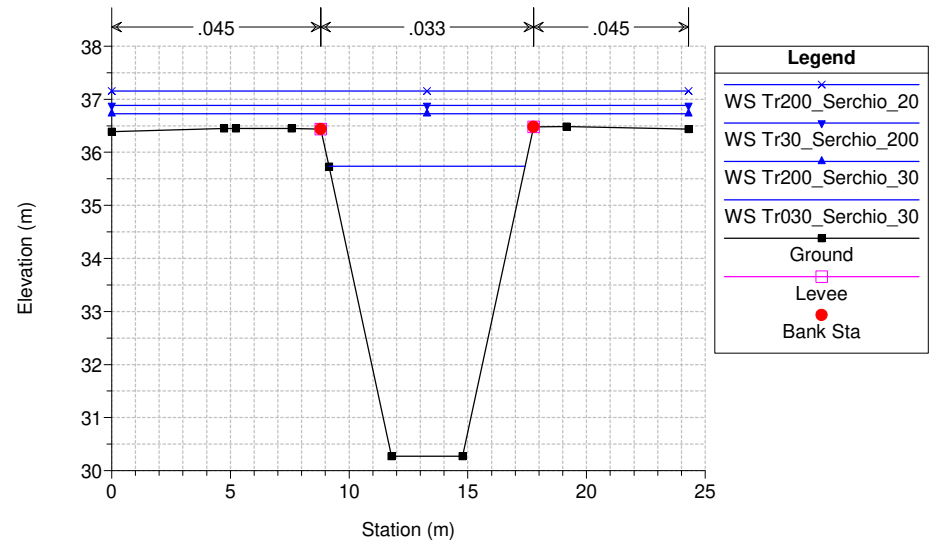
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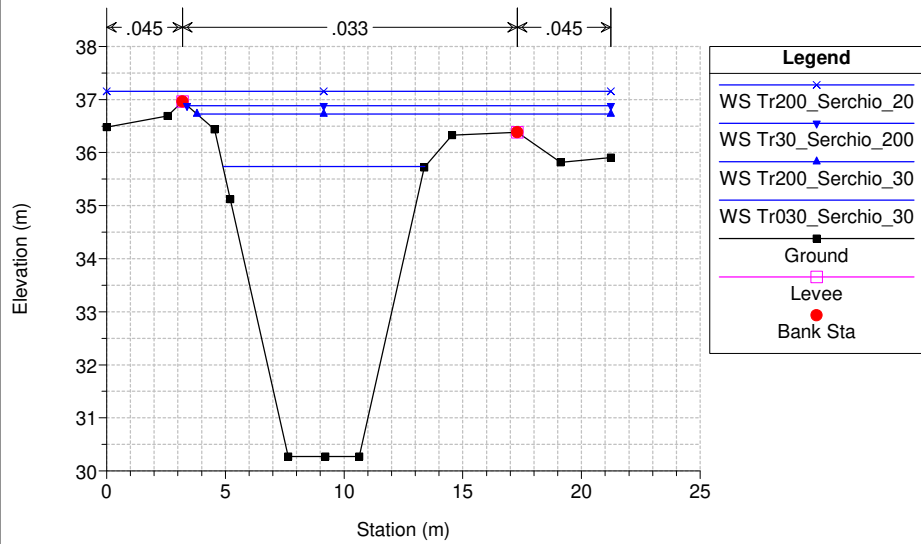
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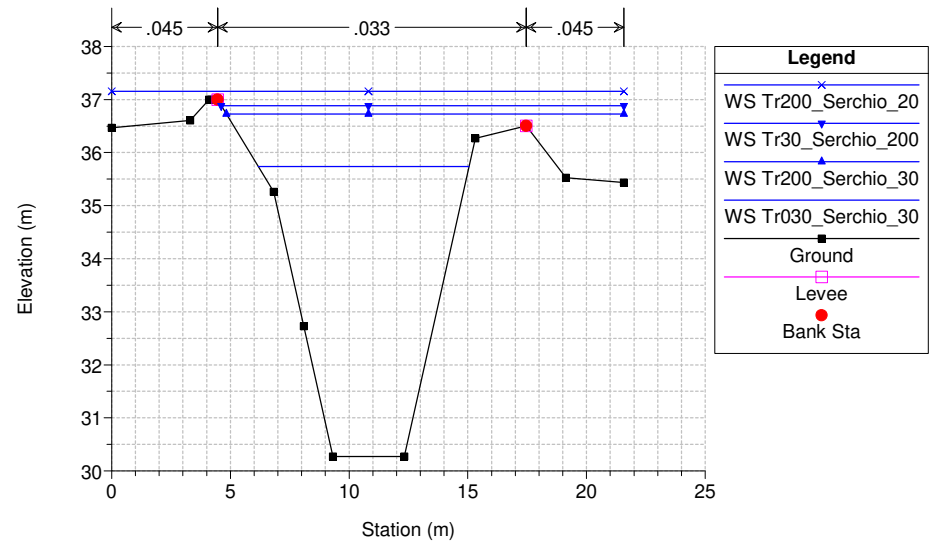
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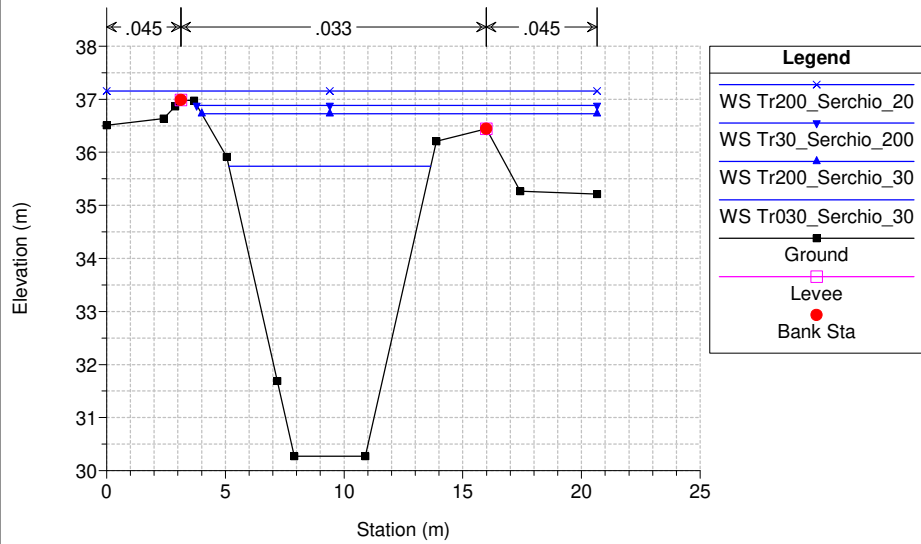
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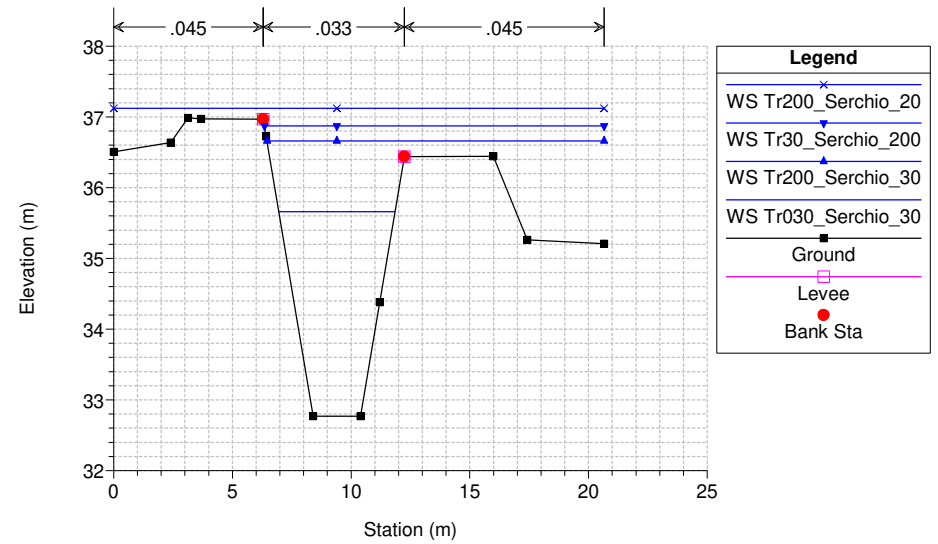
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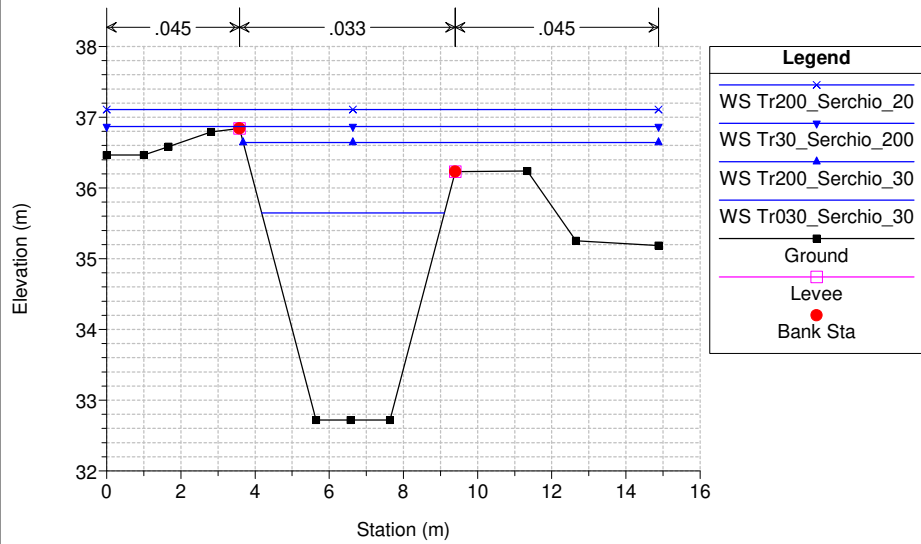
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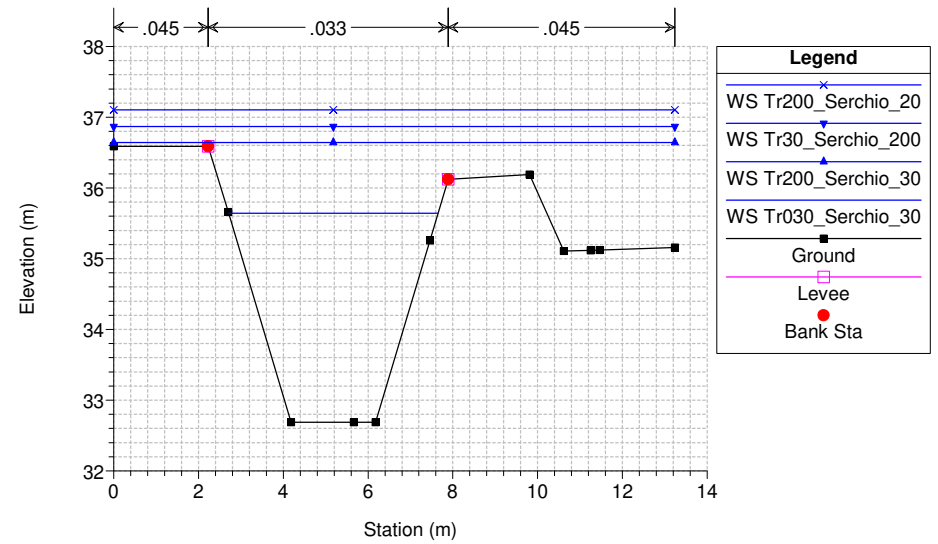
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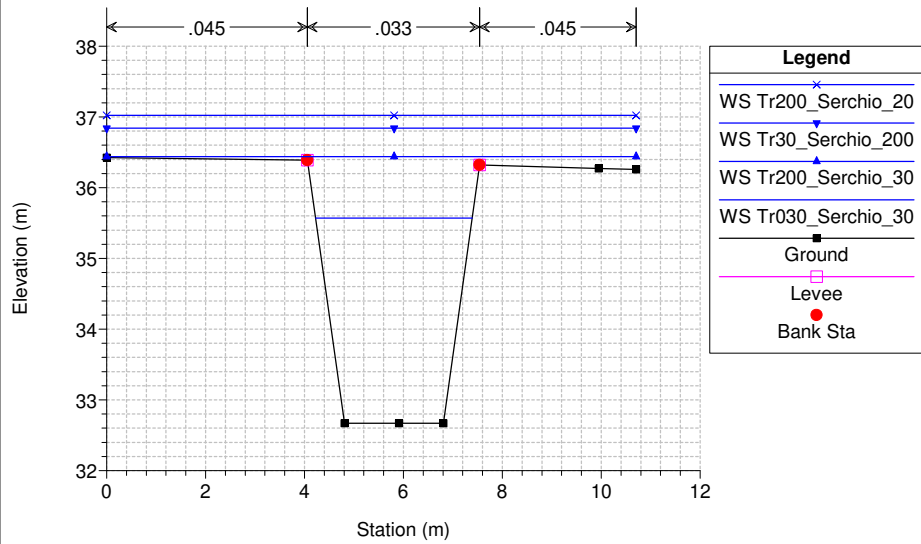
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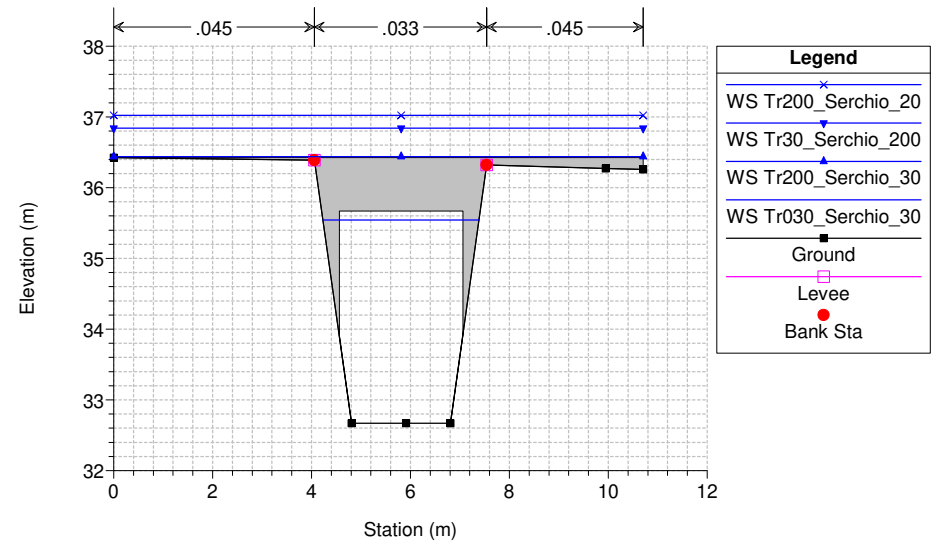
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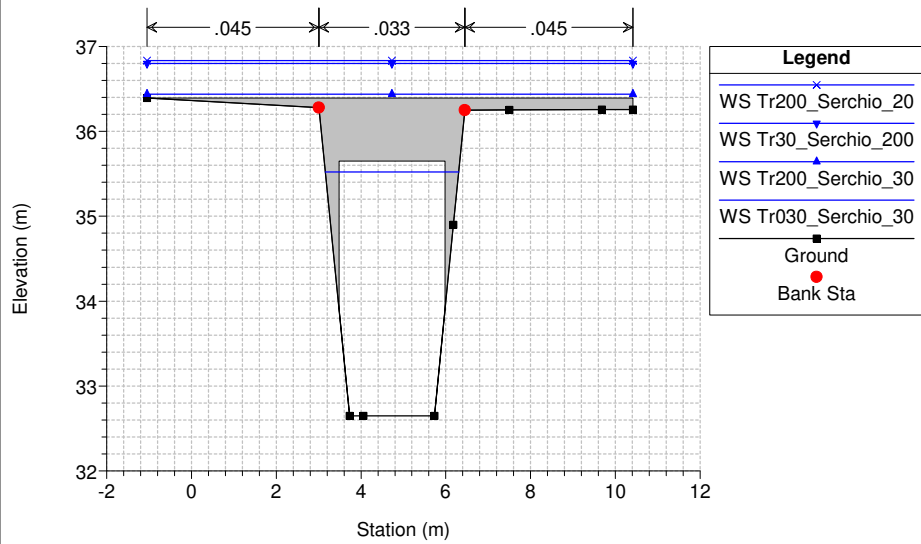
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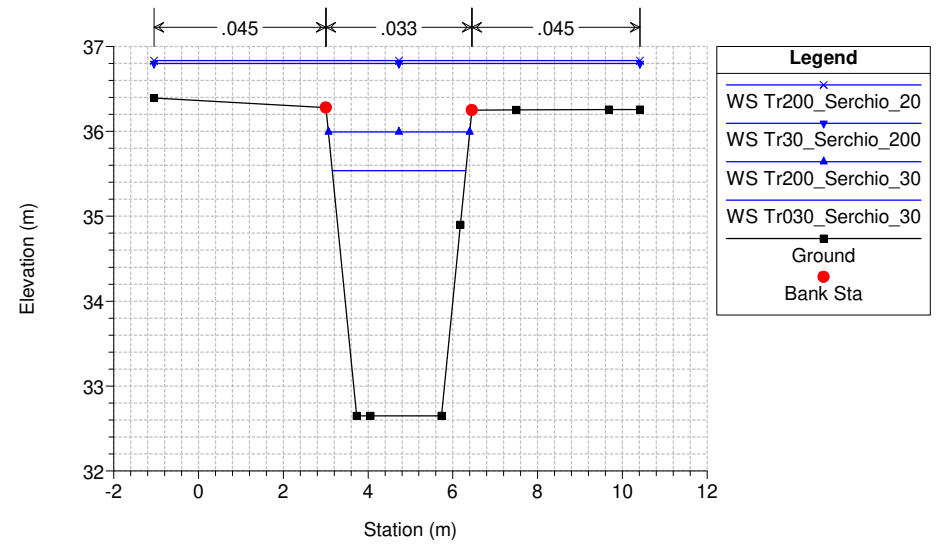
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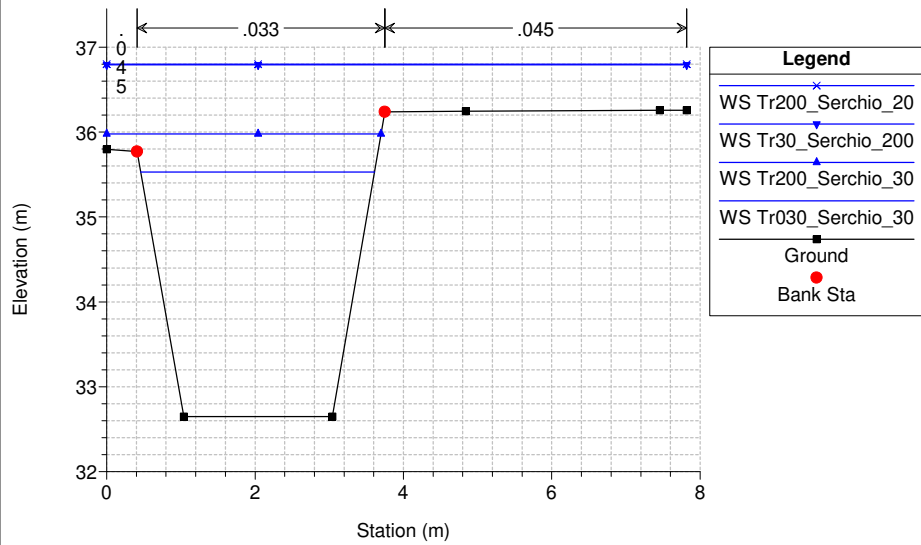
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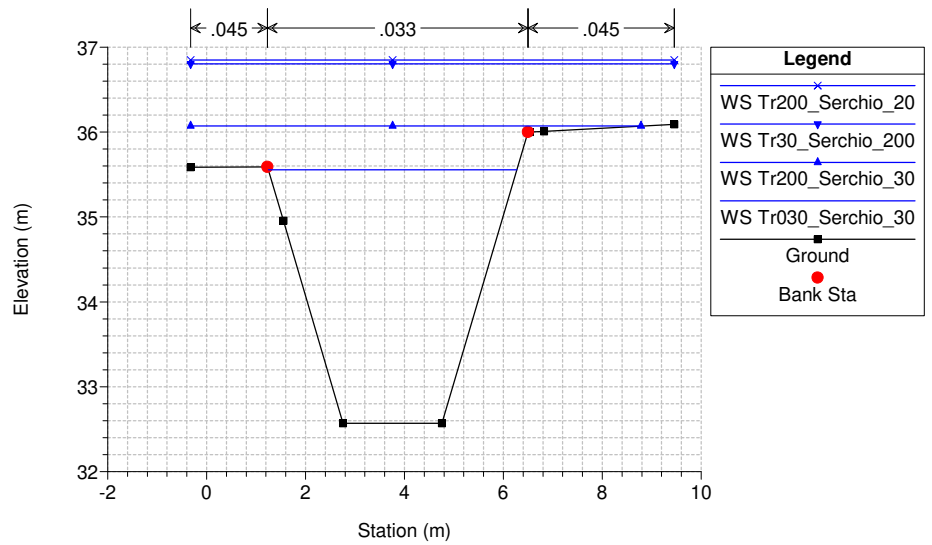
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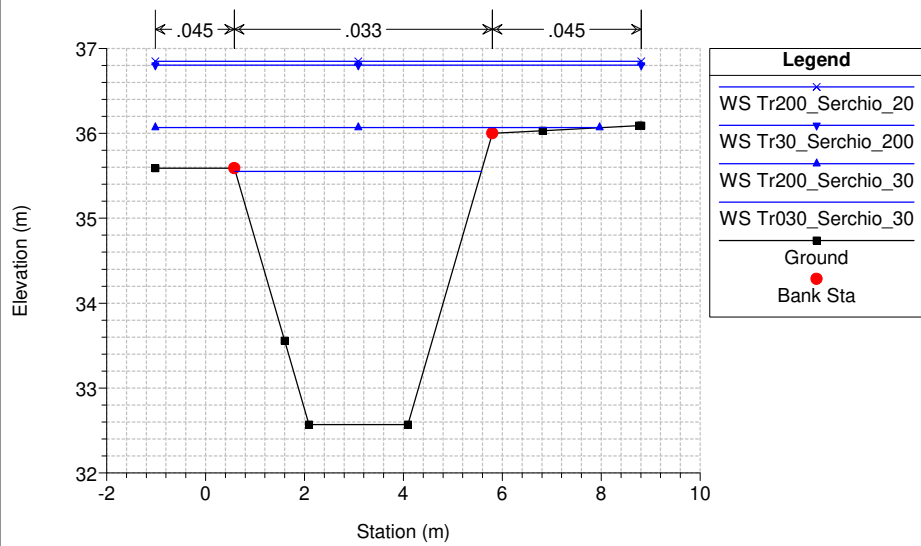
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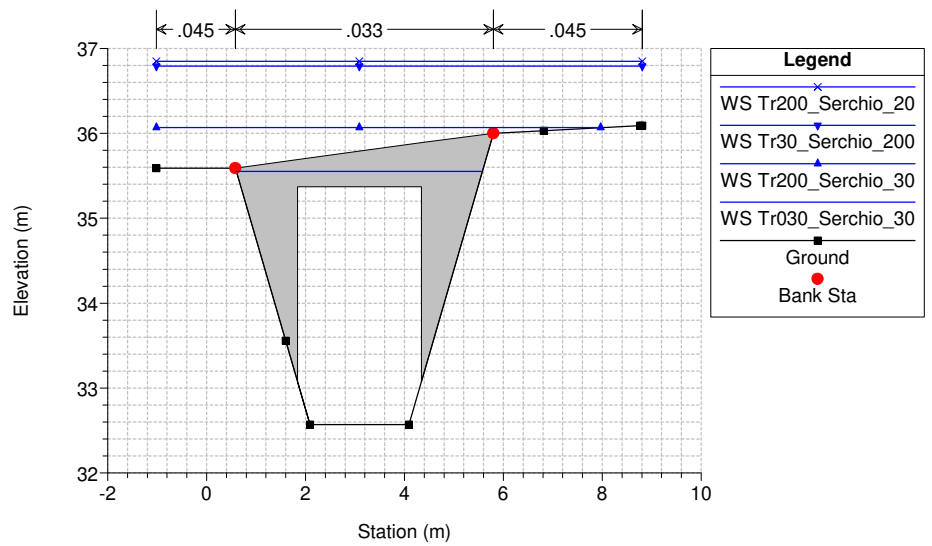
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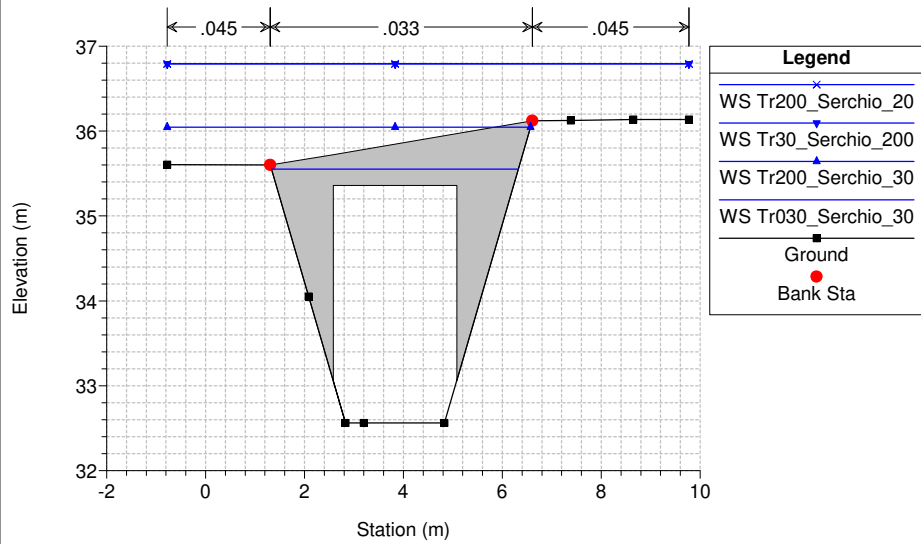
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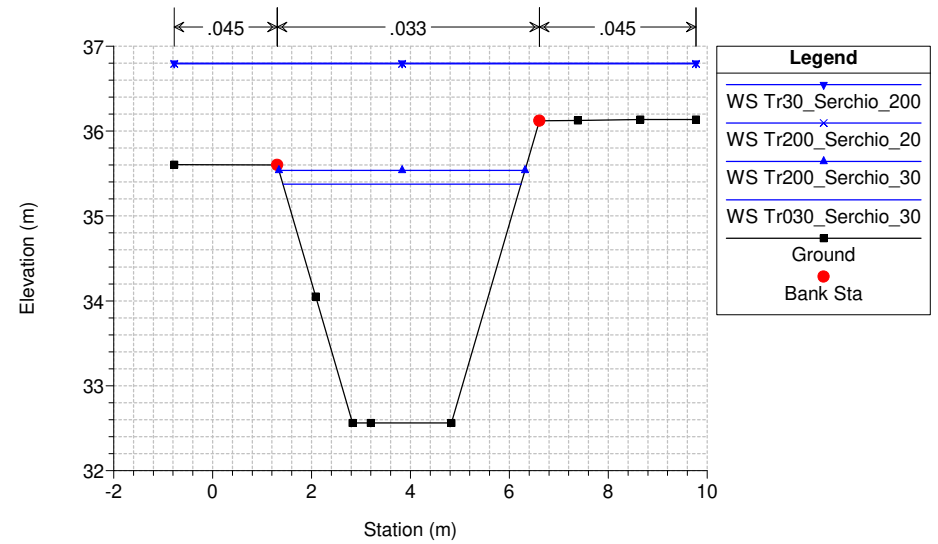
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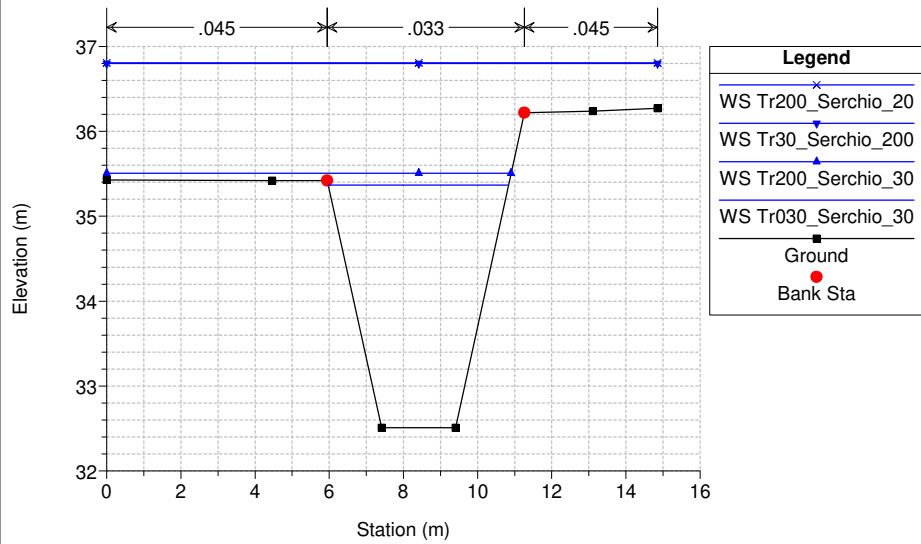
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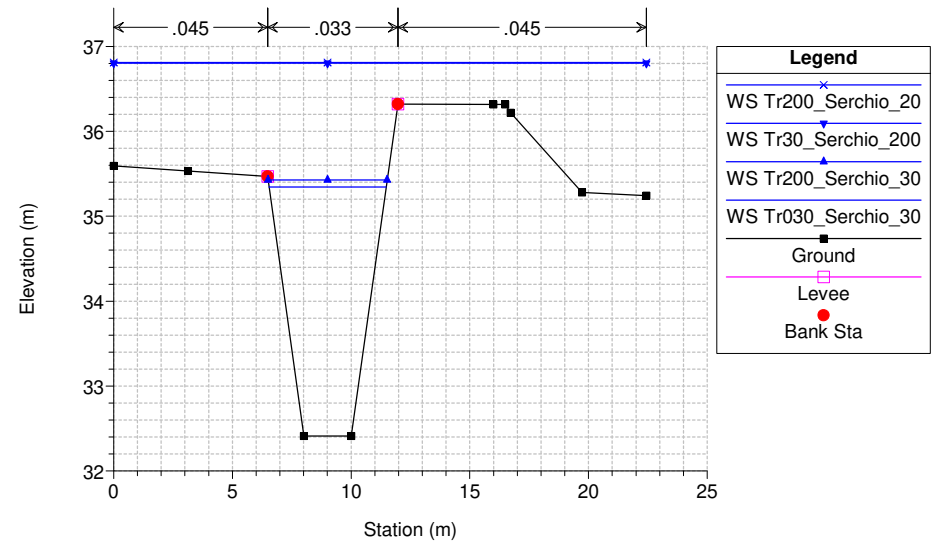
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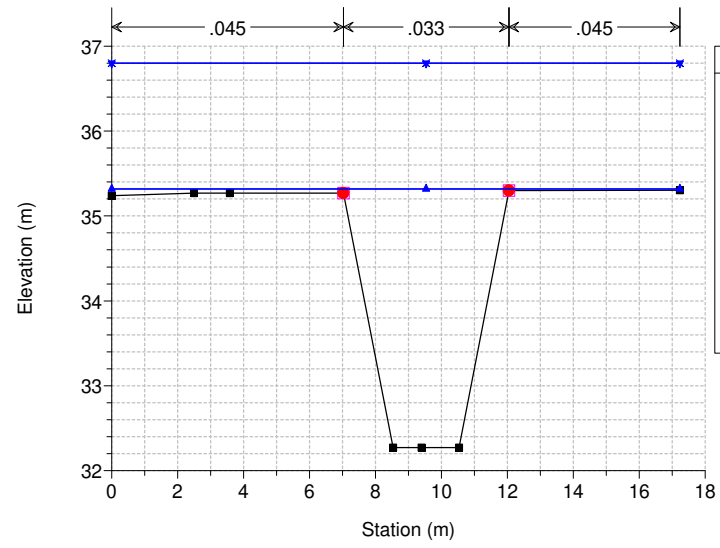
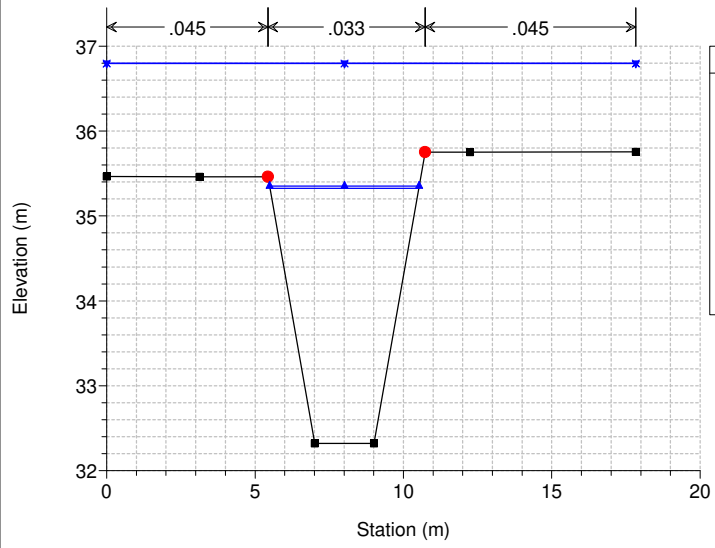


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OUTPUT IDRAULICI RELATIVI AL SISTEMA RIO CARRAIA

HEC-RAS Plan: Carraia aggiornato1 River: Carraia Reach: Carraia (Continued)

Reach	River Sta	Profile	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Max Chl Dpth (m)	LOB Elev (m)	ROB Elev (m)	L. Freeboard (m)	R. Freeboard (m)	Vel Chnl (m/s)	Froude # Chl	Length Chnl (m)
Carraia	4	Tr030_Serchio_30	12.12	32.51	35.37	2.86	35.42	36.22	0.05	0.85	1.24	0.28	19.30
Carraia	4	Tr200_Serchio_30	23.52	32.51	35.51	3.00	35.42	36.22	-0.09	0.71	2.23	0.49	19.30
Carraia	4	Tr30_Serchio_200	12.12	32.51	36.80	4.29	35.42	36.22	-1.38	-0.58	0.55	0.10	19.30
Carraia	4	Tr200_Serchio_20	23.52	32.51	36.81	4.30	35.42	36.22	-1.39	-0.59	1.06	0.19	19.30
Carraia	3	Tr030_Serchio_30	12.12	32.41	35.35	2.94	35.47	36.32	0.12	0.97	1.19	0.26	18.50
Carraia	3	Tr200_Serchio_30	23.52	32.41	35.43	3.02	35.47	36.32	0.04	0.89	2.22	0.49	18.50
Carraia	3	Tr30_Serchio_200	12.12	32.41	36.80	4.39	35.47	36.32	-1.33	-0.46	0.46	0.08	18.50
Carraia	3	Tr200_Serchio_20	23.52	32.41	36.81	4.40	35.47	36.32	-1.34	-0.49	0.89	0.16	18.50
Carraia	2	Tr030_Serchio_30	12.12	32.32	35.33	3.01	35.46	35.75	0.13	0.42	1.15	0.25	9.30
Carraia	2	Tr200_Serchio_30	23.52	32.32	35.35	3.03	35.46	35.75	0.11	0.40	2.20	0.48	9.30
Carraia	2	Tr30_Serchio_200	12.12	32.32	36.80	4.48	35.46	35.75	-1.34	-1.05	0.48	0.08	9.30
Carraia	2	Tr200_Serchio_20	23.52	32.32	36.80	4.48	35.46	35.75	-1.34	-1.05	0.94	0.16	9.30
Carraia	1	Tr030_Serchio_30	12.12	32.27	35.32	3.05	35.27	35.30	-0.05	-0.02	1.12	0.24	
Carraia	1	Tr200_Serchio_30	23.52	32.27	35.32	3.05	35.27	35.30	-0.05	-0.02	2.18	0.48	
Carraia	1	Tr30_Serchio_200	12.12	32.27	36.80	4.53	35.27	35.30	-1.53	-1.50	0.44	0.07	
Carraia	1	Tr200_Serchio_20	23.52	32.27	36.80	4.53	35.27	35.30	-1.53	-1.50	0.85	0.14	