Ajuntament d'Amposta

PLA D'ORDENACIÓ URBANÍSTICA MUNICIPAL

Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta

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Data: Novembre de 2006.

Nº Rec.: 0455POUM

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MEMÒRIA

1. ANTECEDENTS

En data febrer de 2006 es va fer l'aprovació inicial del POUM d'Amposta.

D'acord amb l'Informe del Serveis Territorials a les Terres de l'Ebre del Departament de Medi Ambient i Habitatge per poder informar sobre el POUM s'ha de presentar un estudi d'inundabilitat.

2. OBJECTE DE L'ESTUDI

L'objecte del present estudi és la definició de la cota d'inundabilitat que resulta de l'avinguda amb període de retorn de 10, 100 i 500 anys a la zona on s'ubicaran els nous sectors de creixement.

Els barrancs estudiats son el d'Oriola i de Comes en la part adjacent als nous sectors de creixement.

També es grafia en el document de plànols les línies definides en l'INUNCAT per delimitar les inundacions del riu Ebre amb període de retorn de 10, 100 i 500 anys.

La longitud aproximada del tram estudiat del barranc d'Oriola es de 680 metres i del barranc de Comes de 1.080 metres.

3. METODOLOGIA DE CÀLCUL

S'ha procedit a l'estudi de la cota d'inundabilitat dels polígons tenint en compte les conques vessants als barrancs.

Per determinar els cabals d'aportació dels dos barrancs s'ha procedit a determinar les característiques físiques de les conques d'aportació als barrancs objecte de l'estudi. Per determinar la superfície, els punts alts i baixos de la conca, la longitud de riera i els seus usos del sol s'ha utilitzat eines de GIS.

Un cop determinat les característiques físiques dels barrancs i considerant la precipitació màxima diària amb període de retorn 10,100 i 500 anys s'obté el cabal d'aportació dels barrancs en la zona d'estudi.

Pel barranc d'Oriola el cabal obtingut per l'avinguda amb període de retorn 500 anys es de 178,61 m^3/s i pel barranc de Comes de 53,53 m^3/s.

Un cop obtingut el cabal d'aportació de les conques s'ha procedit a analitzar el comportament dels barrancs amb el programa de càlcul HEC-RAS que aproxima les equacions de Saint-Venant, determinant la cota d'inundabilitat. S'ha comprovat experimentalment que el programa té tendència a sobreestimar les alçades de la làmina d'aigua. És per això que es considera que els resultats obtinguts sobreestimen la làmina d'aigua i, per tant, ens trobem del cantó de la seguretat amb els resultats obtinguts.

BARRANC D'ORIOLA

En el barranc d'Oriola es proposa un endegament del barranc en la zona adjacent al sector PAU-11 amb un canal de formigó a cel obert de 10 metres d'amplada i 3 metres d'alçada. La part externa del canal s'atalussa amb una pendent 1H:1V per tal de poder sembrar ambdós costats del canal.

Per la resta del barranc (riu amunt del pont del carrer que delimita els sectors PAU-11 i SUD-12) es manté la secció original definint uns límits que s'hauran de respectar quan es desenvolupin els sectors.

Per la secció canalitzada s'ha simulat la secció del canal cada 10 metres en el barranc d'oriola i s'han introduït les dades obtingudes en el programa HEC-RAS on afegides a les condicions de contorn, els coeficient de rugositat (coeficient de Manning n=0,016) i les dades de cabals s'ha obtingut la cota de les diferents lamines d'aigua per els diversos períodes de retorn.

En la secció no canalitzada s'han introduït les seccions mitjançant diversos talls cada 20 metres en el programa HEC-RAS aplicant un coeficient de rugositat (Manning) de 0,04 segons la inspecció visual efectuada.

La transició entre la part canalitzada i la part natural es fa mitjançant un pont de 3 ulls.

El resultats estan recollits en l'annex num.2 càlculs hidràulics barranc d'Oriola.

BARRANC DE COMES

En el barranc de Comes es conserva la situació actual i es determina la plana d'inundació amb les diverses avingudes.

Per introduir la informació prèvia en el programa HEC.RAS 3.1.3. s'utilitza el programa HEC-GEORas 4.1.1. para ARCGIS 9.1 on a partir d'una TIN (malla obtinguda a partir de topografia a escala 1:1000) es determinen les seccions del terreny i els paràmetres necessaris per poder fer l'estudi d'inundabilitat.

Per l'estimació del coeficient de Manning, i tenint en compte que el programa només permet considerar un coeficient de Manning per la llera i un per cadascun dels marges s'han considerat els següents valors basant-se en el llibre "Hidràulica de Canales Abiertos" de Ven Te Chow i en l'ajuda del propi programa de càlcul (versió 3.1.3 del Hec-Ras).

Per la llera i marges de la riera i torrent, s'ha considerat un valor del coeficient de Manning de 0,040 i 0,045 respectivament.

A partir de les dades d'aquest programa es pot determinar l'alçada de la làmina d'aigua per un període de retorn de 10, 100 i 500 anys.

A l'hora de d'executar el programa s'ha considerat un regim mixt (el programa comprova el regim subcrític i supercrític en funció del número de Froude).

Tots els resultats d'aquests càlculs estan recollits en l'annex num.4 hidràulic barranc de Comes així com en els plànols.

4. RESULTATS

BARRANC D'ORIOLA

La canalització del tram de barranc amb un canal de base 10 metres i alçada 3 metres garanteix el pas de l'avinguda amb període de retorn 500 anys deixant un resguard aproximat de 50 centímetres.

El canal ocupa la zona reservada en el POUM i el talús esta en la franja verda reservada no ocupant en cap cas les zones adjacents.

La zona no canalitzada inunda part del sector SUD-12 amb un límit recollit als plànols. A l'hora de desenvolupar el sector s'haurà de tenir en compte aquests límits.

BARRANC DE COMES

La zona inundable no ocupa cap zona edificable prevista en el POUM tal com es pot veure en els plànols.

5. CONCLUSIONS

En el desenvolupament dels sectors s'haurà de tenir en compte els límits establerts en aquest estudi d'inundabilitat.

Sant Sadurní d'Anoia, novembre de 2006

L'AUTOR DE L'ESTUDI

Domingo Monserrat Piltarch
Enginyer de Camins

ANNEXES

ANNEX 1. CALCULS HIDROLOGICS BARRANC D'ORIOLA

Per al càlcul dels cabals es seguiran les "Recomanacions Tècniques per als estudis d'inundabilitat d'àmbit local", publicat per l'Agència Catalana de l'Aigua el març de 2003.

1. METEREOLOGIA

Les dades pluviomètriques s'han obtingut de la estació meteorològica d'Amposta que es la més propera a les conca del torrent d'Oriola, segons el resum estadístic de les dades de pluges considerades a Catalunya per F. Elías al seu llibre "Precipitaciones máximas en España" a la estació d'Amposta.

Segons F. Elias

L'estudi de cabals es realitzarà per als períodes de retorn de 10, 100 i 500 anys. A continuació es reprodueix en una taula els valors de l'estació 9-987 d'Amposta.

PAS DE LES DADES DE LA DISTRIBUCIÓ GUMBEL A LA DISTRIBUCIÓ SQR-Etmáx			
Estació utilitzada			Amposta
Mitja			77,2
Desviació típica			31,3
Coeficient de variació Cv			**0,40**
Període de retorn	**Precipitació segons F. Elías**	**Valor del Coeficient**	**Precipitació SQR-Etmax**
10	125,4	0,981843	123,10
100	191,4	1,064725	203,8
500	213,1	1,138189	242,5

2. CABALS DE MÀXIMA AVINGUDA

El càlcul dels cabals d'avinguda es realitzaran pel mètode hidrometereològic en el que:

Fórmula Racional: $Q = \frac{C \cdot I \cdot A}{3,6} \cdot K$

Essent,

C : Coeficient d'escorrentiu de la conca

A : Àrea de la conca (Km^2)

It : Intensitat mitja de precipitació corresponent al període de retorn considerat i a un interval igual al temps de concentració

K : Coeficient d'uniformitat que el CEDEX ha estimat experimentalment

En $K = 1 + \frac{T_c^{1,25}}{T_c^{1,25} + 14}$

2.1. Coeficient d'escorrentiu

El coeficient d'escorrentiu depèn de la raó entre la precipitació diària Pd corresponent al període de retorn i el llindar d'escorrentiu Po, a partir del qual s'inicia aquesta. El valor del coeficient d'escorrentiu s'obté de la fórmula:

$$C = \frac{(P_d^{'} - P_0^{'}) \cdot (P_d^{'} + 23 \cdot P_0^{'})}{(P_d^{'} + 11 \cdot P_0^{'})^2}$$

$P_d^{'}$ és el volum de precipitació diària (mm) minorat pel coeficient de simultaneïtat K_A per a conques de més d'un Km^2. Com resulta ser el cas d'estudi.

$$P_d^{'} = K_A \cdot P_d$$

On,

$$K_A = 1 \quad \text{si } A<1Km^2$$

$$K_A = 1 - \frac{\log A}{15} \quad \text{si } A>1Km^2$$

Dades de les conques:

Les dades de la conca es determinen en base a eines GIS aplicades a una cartografia on es determina la superfície de la conca, els punts alts i baixos, la longitud del curs principal , les característiques del sol i el mapa d'usos.

CONCA DE L'ORIOLA

Àrea de la conca : 12,26 Km^2

D'on resulta un $K_{A\ LAVERNÓ}=0,927$

Punt alt: 494 m.s.n.m.

Punt baix:	5 m.s.n.m.
Longitud llera:	9.540 metres
Llindar d'escorrentiu (Po):	23,46
Coeficient corrector:	1,3

A continuació es presenta una taula resum tenint en compte els valors diversos dels P_d' per als períodes de retorn considerats:

ORIOLA

T (Anys)	C (coeficient d'escorrentiu)
10	0.3556
100	0.5394
500	0.6374

2.2. Intensitat mitja de precipitació

La intensitat mitja It (mm/h) de precipitació a utilitzar en l'estimació de cabals es podrà obtenir de la fórmula:

$$\frac{I_t}{I_d} = \left(\frac{I_1}{I_d}\right)^{\left(\frac{28^{0,1}-t^{0,1}}{28^{0,1}-1}\right)}$$

Essent,

Id (mm/h) : intensitat mitja diària de precipitació corresponent al període de retorn considerat. És igual a Pd/24

I1 (mm/h) : intensitat horària de precipitació corresponent a l'esmentat període de retorn. El valor de la raó I1/Id és d´11 per a la zona de Catalunya.

t (h) : durada de l'intèrval al qual es refereix It que es prendrà igual al t temps de concentració.

2.3. Temps de concentració

L'obtindrem a partir de la fórmula:

T_C : temps de concentració en hores

Conca urbana:

$$T_C = \frac{1}{1+3\mu\sqrt{(2-\mu)}}.0.3.\left[\left(\frac{L}{j^{1/4}}\right)^{0.76}\right]$$

μ : grau d'urbanització tant per u

L : longitud de la llera principal en Km

j : pendent mitja en m/m

La longitud de la llera principal i les pendents mitges de les conques queden exposades en les següents taules:

ORIOLA

L (Km)	j	μ
9.540	0.051	0,09

Amb les dades anteriors en resulta uns temps de concentració de:

ORIOLA

T_c (h)
1,29

Aplicant els valors obtinguts a la fórmula de la intensitat mitja de precipitació obtenim les It (mm/h) següents:

ORIOLA

T (Anys)	I_t (mm/h)
10	48,23
100	79,84
500	95,02

Finalment, amb els valors obtinguts i aplicant la fórmula del mètode racional per al cabal, tenim:

ORIOLA

T (Anys)	Q (m^3/seg) Lavernó
10	60,34
100	151,86
500	202,06

ANNEX 2. CÀLCULS HIDRAULICS BARRANC D'ORIOLA

Es procedirà a estudiar la cota d'inundabilitat amb l'ajuda del programa de càlcul hidràulic Hec-Ras que aproxima les equacions de Saint-Venant. S'ha comprovat experimentalment que el programa té tendència a sobreestimar les alçades de la làmina d'aigua. És per tot això que es considera que els resultats obtinguts sobreestimen la làmina d'aigua i, per tant, ens trobem del costat de la seguretat amb els resultats obtinguts.

En base a una topografia de la zona a estudiar s'ha traçat amb el programa MDT 5.0 el tram objecte de l'estudi. Un cop obtingudes les seccions s'han introduït en el programa HEC-RAS 3.1.3.

S'introdueixen les condicions de contorn que en aquest cas són les pendents d'entrada i sortida.

També s'introdueix el coeficient de rugositat de Manning que per el formigó (zona canalitzada) es de n = 0,016 (formigó usat) i n = 0,04 zona natural.

Un cop efectuat el càlcul amb el programa Hec-Ras (regim mixt) s'obtenen les cotes de les lamines d'aigua amb l'avinguda amb període de retorn 10, 100 i 500 anys.

També es presenta una taula en els dos casos en la que s'indica, per a cada secció considerada, el cabal (Q_{Total}), el nivell de l'aigua (*W.S. Elev*), alçada de la làmina crítica (*Crit W.S.*), la línia d'energia (*E.G. Elev*) i el seu pendent (*E.G. Slope*) ,la velocitat de l'aigua (*Vel Chnl*) i el calat de l'aigua (Diff).

També s'adjunten les seccions transversals on es pot s'indiquen els calats , línies d'energia i de lamina critica per cada període de retorn.

Per tal de poder identificar els diferents paràmetres dels llistats s'adjunta la taula següent.

Aparició llistats	**Significat**
E.G. Elev (m)	Cota de la línia d'energia
W.S. Elev (m)	Cota de la superfície de l'aigua
Critic W.S. (m)	Cota del calat crític
E.G. Slope (m/m)	Pendent de la línia d'energia
Q Total (m3/s)	Cabal total
Top Width (m)	Amplada del col·lector
Vel Total (m/s)	Velocitat
Max Chl Dpth (m)	Calat
Length Wtd. (m)	Distancia a la propera secció
Min Chl El (m)	Cota de la solera del col·lector
Diff (m)	Diferencia solera - lamina aigua
Frctn Loss (m)	Pèrdues per fricció
C&E Loss (m)	Pèrdues per contracció & expansió

Tota les informacions que es desprenen d'aquest càlcul hidràulic estan representades en el document de plànols.

De la interpretació d'aquests resultats es desprenen les conclusions d'aquest document que es poden llegir a la memòria.

2.1 QUADRES DE RESULTATS

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	0	Q10	60.34	7.58	8.66	9.12	10.25	0.009335	5.58	10.81	10.01	1.71
ORIOLA	0	Q100	151.86	7.58	9.56	10.43	12.54	0.009336	7.64	19.88	10.01	1.73
ORIOLA	0	Q500	202.06	7.58	9.99	11.04	13.56	0.009338	8.36	24.16	10.02	1.72
ORIOLA	5.*	Q10	60.34	7.63	8.71	9.17	10.29	0.009290	5.57	10.83	10.01	1.71
ORIOLA	5.*	Q100	151.86	7.63	9.61	10.49	12.58	0.009316	7.63	19.89	10.01	1.73
ORIOLA	5.*	Q500	202.06	7.63	10.04	11.09	13.60	0.009321	8.36	24.18	10.02	1.72
ORIOLA	10.*	Q10	60.34	7.67	8.76	9.22	10.34	0.009321	5.58	10.81	10.01	1.71
ORIOLA	10.*	Q100	151.86	7.67	9.66	10.54	12.63	0.009333	7.64	19.88	10.01	1.73
ORIOLA	10.*	Q500	202.06	7.67	10.09	11.14	13.65	0.009335	8.36	24.16	10.02	1.72
ORIOLA	15.*	Q10	60.34	7.72	8.80	9.27	10.39	0.009356	5.59	10.80	10.01	1.72
ORIOLA	15.*	Q100	151.86	7.72	9.71	10.58	12.68	0.009312	7.63	19.90	10.01	1.73
ORIOLA	15.*	Q500	202.06	7.72	10.14	11.18	13.70	0.009318	8.36	24.18	10.02	1.72
ORIOLA	20	Q10	60.34	7.77	8.85	9.31	10.44	0.009384	5.59	10.79	10.01	1.72
ORIOLA	20	Q100	151.86	7.77	9.76	10.63	12.73	0.009330	7.64	19.88	10.01	1.73
ORIOLA	20	Q500	202.06	7.77	10.18	11.23	13.75	0.009332	8.36	24.17	10.02	1.72
ORIOLA	25.*	Q10	60.34	7.82	8.90	9.36	10.49	0.009347	5.58	10.80	10.01	1.72
ORIOLA	25.*	Q100	151.86	7.82	9.81	10.68	12.77	0.009309	7.63	19.90	10.01	1.73
ORIOLA	25.*	Q500	202.06	7.82	10.23	11.28	13.79	0.009315	8.36	24.18	10.02	1.72
ORIOLA	30.*	Q10	60.34	7.87	8.95	9.41	10.53	0.009350	5.59	10.80	10.01	1.72
ORIOLA	30.*	Q100	151.86	7.87	9.85	10.73	12.82	0.009313	7.63	19.90	10.01	1.73
ORIOLA	30.*	Q500	202.06	7.87	10.28	11.33	13.84	0.009319	8.36	24.18	10.02	1.72
ORIOLA	35.*	Q10	60.34	7.91	8.99	9.46	10.58	0.009378	5.59	10.79	10.01	1.72
ORIOLA	35.*	Q100	151.86	7.91	9.90	10.78	12.87	0.009330	7.64	19.88	10.01	1.73
ORIOLA	35.*	Q500	202.06	7.91	10.33	11.38	13.89	0.009333	8.36	24.17	10.02	1.72
ORIOLA	40	Q10	60.34	7.96	9.04	9.50	10.63	0.009341	5.58	10.81	10.01	1.72
ORIOLA	40	Q100	151.86	7.96	9.95	10.82	12.92	0.009349	7.64	19.87	10.01	1.73
ORIOLA	40	Q500	202.06	7.96	10.38	11.42	13.93	0.009316	8.36	24.18	10.02	1.72
ORIOLA	45.*	Q10	60.34	8.01	9.09	9.55	10.68	0.009370	5.59	10.80	10.01	1.72
ORIOLA	45.*	Q100	151.86	8.01	9.99	10.87	12.97	0.009364	7.65	19.86	10.01	1.73
ORIOLA	45.*	Q500	202.06	8.01	10.42	11.47	13.98	0.009330	8.36	24.17	10.02	1.72
ORIOLA	50.*	Q10	60.34	8.06	9.14	9.60	10.72	0.009332	5.58	10.81	10.01	1.71
ORIOLA	50.*	Q100	151.86	8.06	10.04	10.92	13.02	0.009345	7.64	19.87	10.01	1.73
ORIOLA	50.*	Q500	202.06	8.06	10.47	11.52	14.03	0.009313	8.36	24.18	10.02	1.72
ORIOLA	55.*	Q10	60.34	8.10	9.18	9.65	10.78	0.009362	5.59	10.80	10.01	1.72
ORIOLA	55.*	Q100	151.86	8.10	10.09	10.97	13.07	0.009361	7.65	19.86	10.01	1.73
ORIOLA	55.*	Q500	202.06	8.10	10.52	11.57	14.08	0.009327	8.36	24.17	10.02	1.72
ORIOLA	60	Q10	60.34	8.15	9.23	9.70	10.82	0.009322	5.58	10.81	10.01	1.71
ORIOLA	60	Q100	151.86	8.15	10.14	11.02	13.11	0.009342	7.64	19.87	10.01	1.73
ORIOLA	60	Q500	202.06	8.15	10.57	11.62	14.13	0.009310	8.35	24.19	10.02	1.72
ORIOLA	65.*	Q10	60.34	8.20	9.28	9.74	10.87	0.009354	5.59	10.80	10.01	1.72
ORIOLA	65.*	Q100	151.86	8.20	10.19	11.06	13.16	0.009357	7.64	19.86	10.01	1.73
ORIOLA	65.*	Q500	202.06	8.20	10.62	11.66	14.18	0.009324	8.36	24.17	10.02	1.72
ORIOLA	70.*	Q10	60.34	8.25	9.33	9.79	10.92	0.009313	5.58	10.82	10.01	1.71
ORIOLA	70.*	Q100	151.86	8.25	10.24	11.11	13.21	0.009339	7.64	19.88	10.01	1.73
ORIOLA	70.*	Q500	202.06	8.25	10.67	11.71	14.22	0.009306	8.35	24.19	10.02	1.72
ORIOLA	75.*	Q10	60.34	8.30	9.38	9.84	10.97	0.009346	5.58	10.81	10.01	1.72
ORIOLA	75.*	Q100	151.86	8.30	10.28	11.16	13.26	0.009354	7.64	19.87	10.01	1.73
ORIOLA	75.*	Q500	202.06	8.30	10.71	11.76	14.27	0.009321	8.36	24.18	10.02	1.72
ORIOLA	80	Q10	60.34	8.35	9.43	9.89	11.01	0.009303	5.58	10.82	10.01	1.71
ORIOLA	80	Q100	151.86	8.35	10.33	11.21	13.30	0.009335	7.64	19.88	10.01	1.73
ORIOLA	80	Q500	202.06	8.35	10.76	11.81	14.32	0.009303	8.35	24.19	10.02	1.72
ORIOLA	85.*	Q10	60.34	8.39	9.47	9.94	11.06	0.009337	5.58	10.81	10.01	1.71
ORIOLA	85.*	Q100	151.86	8.39	10.38	11.26	13.35	0.009351	7.64	19.87	10.01	1.73
ORIOLA	85.*	Q500	202.06	8.39	10.81	11.86	14.37	0.009318	8.36	24.18	10.02	1.72
ORIOLA	90.*	Q10	60.34	8.44	9.52	9.98	11.11	0.009293	5.57	10.82	10.01	1.71
ORIOLA	90.*	Q100	151.86	8.44	10.43	11.30	13.40	0.009332	7.64	19.88	10.01	1.73
ORIOLA	90.*	Q500	202.06	8.44	10.86	11.90	14.41	0.009300	8.35	24.19	10.02	1.72
ORIOLA	95.*	Q10	60.34	8.49	9.57	10.03	11.16	0.009328	5.58	10.81	10.01	1.71
ORIOLA	95.*	Q100	151.86	8.49	10.47	11.35	13.45	0.009348	7.64	19.87	10.01	1.73
ORIOLA	95.*	Q500	202.06	8.49	10.91	11.95	14.46	0.009315	8.36	24.18	10.02	1.72
ORIOLA	100	Q10	60.34	8.54	9.62	10.08	11.20	0.009282	5.57	10.83	10.01	1.71
ORIOLA	100	Q100	151.86	8.54	10.52	11.40	13.50	0.009329	7.64	19.88	10.01	1.73
ORIOLA	100	Q500	202.06	8.54	10.95	12.00	14.51	0.009297	8.35	24.20	10.02	1.71

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	105.*	Q10	60.34	8.58	9.67	10.13	11.25	0.009316	5.58	10.82	10.01	1.71
ORIOLA	105.*	Q100	151.86	8.58	10.57	11.45	13.55	0.009344	7.64	19.87	10.01	1.73
ORIOLA	105.*	Q500	202.06	8.58	11.00	12.05	14.56	0.009311	8.35	24.18	10.02	1.72
ORIOLA	110.*	Q10	60.34	8.63	9.71	10.17	11.30	0.009327	5.58	10.81	10.01	1.71
ORIOLA	110.*	Q100	151.86	8.63	10.62	11.49	13.59	0.009348	7.64	19.87	10.01	1.73
ORIOLA	110.*	Q500	202.06	8.63	11.05	12.09	14.61	0.009316	8.36	24.18	10.02	1.72
ORIOLA	115.*	Q10	60.34	8.68	9.76	10.22	11.34	0.009281	5.57	10.83	10.01	1.71
ORIOLA	115.*	Q100	151.86	8.68	10.67	11.54	13.64	0.009328	7.64	19.88	10.01	1.73
ORIOLA	115.*	Q500	202.06	8.68	11.10	12.14	14.65	0.009298	8.35	24.20	10.02	1.71
ORIOLA	120	Q10	60.34	8.73	9.81	10.27	11.39	0.009313	5.58	10.82	10.01	1.71
ORIOLA	120	Q100	151.86	8.73	10.71	11.59	13.69	0.009344	7.64	19.87	10.01	1.73
ORIOLA	120	Q500	202.06	8.73	11.14	12.19	14.70	0.009313	8.36	24.18	10.02	1.72
ORIOLA	125.*	Q10	60.34	8.78	9.86	10.32	11.45	0.009349	5.59	10.80	10.01	1.72
ORIOLA	125.*	Q100	151.86	8.78	10.76	11.64	13.73	0.009325	7.64	19.89	10.01	1.73
ORIOLA	125.*	Q500	202.06	8.78	11.19	12.24	14.75	0.009295	8.35	24.20	10.02	1.71
ORIOLA	130.*	Q10	60.34	8.82	9.90	10.37	11.50	0.009377	5.59	10.79	10.01	1.72
ORIOLA	130.*	Q100	151.86	8.82	10.81	11.69	13.78	0.009341	7.64	19.88	10.01	1.73
ORIOLA	130.*	Q500	202.06	8.82	11.24	12.29	14.80	0.009310	8.35	24.19	10.02	1.72
ORIOLA	135.*	Q10	60.34	8.87	9.95	10.42	11.54	0.009340	5.58	10.81	10.01	1.71
ORIOLA	135.*	Q100	151.86	8.87	10.86	11.73	13.83	0.009321	7.63	19.89	10.01	1.73
ORIOLA	135.*	Q500	202.06	8.87	11.29	12.33	14.84	0.009292	8.35	24.20	10.02	1.71
ORIOLA	140	Q10	60.34	8.92	10.00	10.46	11.59	0.009369	5.59	10.80	10.01	1.72
ORIOLA	140	Q100	151.86	8.92	10.91	11.78	13.88	0.009338	7.64	19.88	10.01	1.73
ORIOLA	140	Q500	202.06	8.92	11.34	12.38	14.89	0.009307	8.35	24.19	10.02	1.72
ORIOLA	145.*	Q10	60.34	8.97	10.05	10.51	11.64	0.009330	5.58	10.81	10.01	1.71
ORIOLA	145.*	Q100	151.86	8.97	10.96	11.83	13.92	0.009318	7.63	19.89	10.01	1.73
ORIOLA	145.*	Q500	202.06	8.97	11.39	12.43	14.94	0.009289	8.35	24.21	10.02	1.71
ORIOLA	150.*	Q10	60.34	9.02	10.10	10.56	11.69	0.009361	5.59	10.80	10.01	1.72
ORIOLA	150.*	Q100	151.86	9.02	11.00	11.88	13.98	0.009335	7.64	19.88	10.01	1.73
ORIOLA	150.*	Q500	202.06	9.02	11.43	12.48	14.99	0.009304	8.35	24.19	10.02	1.72
ORIOLA	155.*	Q10	60.34	9.06	10.15	10.61	11.73	0.009321	5.58	10.81	10.01	1.71
ORIOLA	155.*	Q100	151.86	9.06	11.05	11.93	14.02	0.009315	7.63	19.89	10.01	1.73
ORIOLA	155.*	Q500	202.06	9.06	11.48	12.53	15.03	0.009286	8.35	24.21	10.02	1.71
ORIOLA	160	Q10	60.34	9.11	10.19	10.65	11.78	0.009349	5.59	10.80	10.01	1.72
ORIOLA	160	Q100	151.86	9.11	11.10	11.97	14.07	0.009331	7.64	19.88	10.01	1.73
ORIOLA	160	Q500	202.06	9.11	11.53	12.57	15.08	0.009300	8.35	24.19	10.02	1.72
ORIOLA	165.*	Q10	60.34	9.16	10.24	10.70	11.83	0.009377	5.59	10.79	10.01	1.72
ORIOLA	165.*	Q100	151.86	9.16	11.15	12.02	14.12	0.009347	7.64	19.87	10.01	1.73
ORIOLA	165.*	Q500	202.06	9.16	11.58	12.62	15.13	0.009315	8.36	24.18	10.02	1.72
ORIOLA	170.*	Q10	60.34	9.21	10.29	10.75	11.88	0.009340	5.58	10.81	10.01	1.71
ORIOLA	170.*	Q100	151.86	9.21	11.20	12.07	14.17	0.009327	7.64	19.89	10.01	1.73
ORIOLA	170.*	Q500	202.06	9.21	11.63	12.67	15.18	0.009297	8.35	24.20	10.02	1.71
ORIOLA	175.*	Q10	60.34	9.25	10.34	10.80	11.92	0.009348	5.58	10.80	10.01	1.72
ORIOLA	175.*	Q100	151.86	9.25	11.24	12.12	14.21	0.009332	7.64	19.88	10.01	1.73
ORIOLA	175.*	Q500	202.06	9.25	11.67	12.72	15.23	0.009302	8.35	24.19	10.02	1.72
ORIOLA	180	Q10	60.34	9.30	10.38	10.85	11.97	0.009305	5.58	10.82	10.01	1.71
ORIOLA	180	Q100	151.86	9.30	11.29	12.17	14.26	0.009311	7.63	19.90	10.01	1.73
ORIOLA	180	Q500	202.06	9.30	11.72	12.77	15.27	0.009284	8.35	24.21	10.02	1.71
ORIOLA	185.*	Q10	60.34	9.35	10.43	10.89	12.02	0.009339	5.58	10.81	10.01	1.71
ORIOLA	185.*	Q100	151.86	9.35	11.34	12.21	14.31	0.009329	7.64	19.88	10.01	1.73
ORIOLA	185.*	Q500	202.06	9.35	11.77	12.81	15.32	0.009300	8.35	24.20	10.02	1.72
ORIOLA	190.*	Q10	60.34	9.40	10.48	10.94	12.06	0.009295	5.57	10.82	10.01	1.71
ORIOLA	190.*	Q100	151.86	9.40	11.39	12.26	14.35	0.009308	7.63	19.90	10.01	1.73
ORIOLA	190.*	Q500	202.06	9.40	11.82	12.86	15.37	0.009281	8.35	24.21	10.02	1.71
ORIOLA	195.*	Q10	60.34	9.45	10.53	10.99	12.11	0.009330	5.58	10.81	10.01	1.71
ORIOLA	195.*	Q100	151.86	9.45	11.44	12.31	14.40	0.009290	7.63	19.91	10.01	1.73
ORIOLA	195.*	Q500	202.06	9.45	11.86	12.91	15.42	0.009296	8.35	24.20	10.02	1.71
ORIOLA	200	Q10	60.34	9.50	10.58	11.04	12.16	0.009285	5.57	10.83	10.01	1.71
ORIOLA	200	Q100	151.86	9.50	11.49	12.36	14.44	0.009266	7.62	19.93	10.01	1.72
ORIOLA	200	Q500	202.06	9.50	11.91	12.96	15.46	0.009277	8.34	24.22	10.02	1.71
ORIOLA	205.*	Q10	60.34	9.54	10.62	11.09	12.21	0.009321	5.58	10.81	10.01	1.71
ORIOLA	205.*	Q100	151.86	9.54	11.54	12.41	14.49	0.009244	7.61	19.95	10.01	1.72

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	205.*	Q500	202.06	9.54	11.96	13.01	15.51	0.009293	8.35	24.20	10.02	1.71
ORIOLA	210.*	Q10	60.34	9.59	10.67	11.13	12.25	0.009274	5.57	10.83	10.01	1.71
ORIOLA	210.*	Q100	151.86	9.59	11.59	12.45	14.53	0.009218	7.61	19.96	10.01	1.72
ORIOLA	210.*	Q500	202.06	9.59	12.01	13.05	15.56	0.009274	8.34	24.22	10.02	1.71
ORIOLA	215.*	Q10	60.34	9.64	10.72	11.18	12.31	0.009307	5.58	10.82	10.01	1.71
ORIOLA	215.*	Q100	151.86	9.64	11.64	12.50	14.58	0.009194	7.60	19.98	10.01	1.72
ORIOLA	215.*	Q500	202.06	9.64	12.06	13.10	15.61	0.009290	8.35	24.20	10.02	1.71
ORIOLA	220	Q10	60.34	9.69	10.77	11.23	12.36	0.009341	5.58	10.81	10.01	1.72
ORIOLA	220	Q100	151.86	9.69	11.69	12.55	14.62	0.009169	7.59	20.00	10.01	1.71
ORIOLA	220	Q500	202.06	9.69	12.10	13.15	15.66	0.009305	8.35	24.19	10.02	1.72
ORIOLA	225.*	Q10	60.34	9.74	10.82	11.28	12.40	0.009297	5.58	10.82	10.01	1.71
ORIOLA	225.*	Q100	151.86	9.74	11.74	12.60	14.67	0.009138	7.58	20.02	10.01	1.71
ORIOLA	225.*	Q500	202.06	9.74	12.15	13.20	15.70	0.009286	8.35	24.21	10.02	1.71
ORIOLA	230.*	Q10	60.34	9.78	10.86	11.33	12.45	0.009329	5.58	10.81	10.01	1.71
ORIOLA	230.*	Q100	151.86	9.78	11.79	12.65	14.71	0.009108	7.58	20.05	10.01	1.71
ORIOLA	230.*	Q500	202.06	9.78	12.20	13.25	15.75	0.009270	8.34	24.22	10.02	1.71
ORIOLA	235.*	Q10	60.34	9.83	10.91	11.37	12.50	0.009341	5.58	10.81	10.01	1.72
ORIOLA	235.*	Q100	151.86	9.83	11.84	12.69	14.75	0.009084	7.57	20.06	10.01	1.71
ORIOLA	235.*	Q500	202.06	9.83	12.25	13.29	15.80	0.009279	8.34	24.21	10.02	1.71
ORIOLA	240	Q10	60.34	9.88	10.96	11.42	12.55	0.009371	5.59	10.80	10.01	1.72
ORIOLA	240	Q100	151.86	9.88	11.89	12.74	14.80	0.009051	7.56	20.09	10.01	1.70
ORIOLA	240	Q500	202.06	9.88	12.30	13.34	15.85	0.009295	8.35	24.20	10.02	1.71
ORIOLA	245.*	Q10	60.34	9.93	11.01	11.47	12.59	0.009332	5.58	10.81	10.01	1.71
ORIOLA	245.*	Q100	151.86	9.93	11.93	12.79	14.84	0.009045	7.56	20.09	10.01	1.70
ORIOLA	245.*	Q500	202.06	9.93	12.35	13.39	15.89	0.009276	8.34	24.22	10.02	1.71
ORIOLA	250.*	Q10	60.34	9.97	11.05	11.52	12.64	0.009363	5.59	10.80	10.01	1.72
ORIOLA	250.*	Q100	151.86	9.97	11.98	12.84	14.89	0.009041	7.56	20.10	10.01	1.70
ORIOLA	250.*	Q500	202.06	9.97	12.39	13.44	15.94	0.009292	8.35	24.20	10.02	1.71
ORIOLA	255.*	Q10	60.34	10.02	11.10	11.57	12.69	0.009323	5.58	10.81	10.01	1.71
ORIOLA	255.*	Q100	151.86	10.02	12.03	12.88	14.94	0.009035	7.55	20.10	10.01	1.70
ORIOLA	255.*	Q500	202.06	10.02	12.44	13.48	15.99	0.009273	8.34	24.22	10.02	1.71
ORIOLA	260	Q10	60.34	10.07	11.15	11.61	12.74	0.009354	5.59	10.80	10.01	1.72
ORIOLA	260	Q100	151.86	10.07	12.08	12.93	14.99	0.009031	7.55	20.10	10.01	1.70
ORIOLA	260	Q500	202.06	10.07	12.49	13.53	16.04	0.009289	8.35	24.21	10.02	1.71
ORIOLA	265.*	Q10	60.34	10.12	11.20	11.66	12.78	0.009312	5.58	10.82	10.01	1.71
ORIOLA	265.*	Q100	151.86	10.12	12.13	12.98	15.03	0.009025	7.55	20.11	10.01	1.70
ORIOLA	265.*	Q500	202.06	10.12	12.54	13.58	16.08	0.009270	8.34	24.22	10.02	1.71
ORIOLA	270.*	Q10	60.34	10.17	11.25	11.71	12.83	0.009274	5.57	10.83	10.01	1.71
ORIOLA	270.*	Q100	151.86	10.17	12.18	13.03	15.08	0.009020	7.55	20.11	10.01	1.70
ORIOLA	270.*	Q500	202.06	10.17	12.58	13.63	16.13	0.009285	8.35	24.21	10.02	1.71
ORIOLA	275.*	Q10	60.34	10.21	11.30	11.76	12.88	0.009307	5.58	10.82	10.01	1.71
ORIOLA	275.*	Q100	151.86	10.21	12.22	13.08	15.13	0.009015	7.55	20.12	10.01	1.70
ORIOLA	275.*	Q500	202.06	10.21	12.63	13.68	16.18	0.009301	8.35	24.19	10.02	1.72
ORIOLA	280	Q10	60.34	10.26	11.34	11.80	12.93	0.009343	5.58	10.81	10.01	1.72
ORIOLA	280	Q100	151.86	10.26	12.27	13.12	15.17	0.009010	7.55	20.12	10.01	1.70
ORIOLA	280	Q500	202.06	10.26	12.68	13.72	16.23	0.009282	8.35	24.21	10.02	1.71
ORIOLA	285.*	Q10	60.34	10.31	11.39	11.85	12.98	0.009372	5.59	10.80	10.01	1.72
ORIOLA	285.*	Q100	151.86	10.31	12.32	13.17	15.22	0.009005	7.55	20.12	10.01	1.70
ORIOLA	285.*	Q500	202.06	10.31	12.73	13.77	16.28	0.009298	8.35	24.20	10.02	1.71
ORIOLA	290.*	Q10	60.34	10.36	11.44	11.90	13.03	0.009334	5.58	10.81	10.01	1.71
ORIOLA	290.*	Q100	151.86	10.36	12.37	13.22	15.27	0.008999	7.54	20.13	10.01	1.70
ORIOLA	290.*	Q500	202.06	10.36	12.78	13.82	16.32	0.009279	8.34	24.21	10.02	1.71
ORIOLA	295.*	Q10	60.34	10.41	11.49	11.95	13.08	0.009365	5.59	10.80	10.01	1.72
ORIOLA	295.*	Q100	151.86	10.41	12.42	13.27	15.32	0.008994	7.54	20.13	10.01	1.70
ORIOLA	295.*	Q500	202.06	10.41	12.83	13.87	16.37	0.009262	8.34	24.23	10.02	1.71
ORIOLA	300	Q10	60.34	10.45	11.53	12.00	13.12	0.009325	5.58	10.81	10.01	1.71
ORIOLA	300	Q100	151.86	10.45	12.47	13.32	15.36	0.008989	7.54	20.14	10.01	1.70
ORIOLA	300	Q500	202.06	10.45	12.88	13.92	16.41	0.009242	8.33	24.25	10.02	1.71
ORIOLA	305.*	Q10	60.34	10.50	11.58	12.04	13.17	0.009356	5.59	10.80	10.01	1.72
ORIOLA	305.*	Q100	151.86	10.50	12.51	13.36	15.41	0.008983	7.54	20.14	10.01	1.70
ORIOLA	305.*	Q500	202.06	10.50	12.93	13.96	16.46	0.009223	8.33	24.26	10.02	1.71
ORIOLA	310.*	Q10	60.34	10.55	11.63	12.09	13.22	0.009315	5.58	10.82	10.01	1.71

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	310.*	Q100	151.86	10.55	12.56	13.41	15.46	0.008978	7.54	20.14	10.01	1.70
ORIOLA	310.*	Q500	202.06	10.55	12.98	14.01	16.50	0.009200	8.32	24.29	10.02	1.71
ORIOLA	315.*	Q10	60.34	10.60	11.68	12.14	13.26	0.009326	5.58	10.81	10.01	1.71
ORIOLA	315.*	Q100	151.86	10.60	12.61	13.46	15.50	0.008950	7.53	20.17	10.01	1.69
ORIOLA	315.*	Q500	202.06	10.60	13.02	14.06	16.55	0.009210	8.32	24.28	10.02	1.71
ORIOLA	320	Q10	60.34	10.65	11.73	12.19	13.31	0.009280	5.57	10.83	10.01	1.71
ORIOLA	320	Q100	151.86	10.65	12.66	13.51	15.55	0.008944	7.53	20.17	10.01	1.69
ORIOLA	320	Q500	202.06	10.65	13.07	14.11	16.60	0.009187	8.32	24.30	10.02	1.70
ORIOLA	325.*	Q10	60.34	10.69	11.77	12.24	13.36	0.009317	5.58	10.82	10.01	1.71
ORIOLA	325.*	Q100	151.86	10.69	12.71	13.56	15.60	0.008938	7.53	20.17	10.01	1.69
ORIOLA	325.*	Q500	202.06	10.69	13.12	14.16	16.64	0.009166	8.31	24.32	10.02	1.70
ORIOLA	330.*	Q10	60.34	10.74	11.82	12.28	13.40	0.009270	5.57	10.83	10.01	1.71
ORIOLA	330.*	Q100	151.86	10.74	12.76	13.60	15.64	0.008932	7.53	20.18	10.01	1.69
ORIOLA	330.*	Q500	202.06	10.74	13.17	14.20	16.68	0.009140	8.30	24.34	10.02	1.70
ORIOLA	335.*	Q10	60.34	10.79	11.87	12.33	13.45	0.009303	5.58	10.82	10.01	1.71
ORIOLA	335.*	Q100	151.86	10.79	12.81	13.65	15.69	0.008927	7.52	20.18	10.01	1.69
ORIOLA	335.*	Q500	202.06	10.79	13.22	14.25	16.73	0.009115	8.29	24.36	10.02	1.70
ORIOLA	340	Q10	60.34	10.84	11.92	12.38	13.51	0.009337	5.58	10.81	10.01	1.71
ORIOLA	340	Q100	151.86	10.84	12.85	13.70	15.74	0.008921	7.52	20.19	10.01	1.69
ORIOLA	340	Q500	202.06	10.84	13.27	14.30	16.77	0.009090	8.29	24.39	10.02	1.69
ORIOLA	345.*	Q10	60.34	10.89	11.97	12.43	13.55	0.009293	5.57	10.82	10.01	1.71
ORIOLA	345.*	Q100	151.86	10.89	12.90	13.75	15.78	0.008915	7.52	20.19	10.01	1.69
ORIOLA	345.*	Q500	202.06	10.89	13.32	14.35	16.82	0.009086	8.28	24.39	10.02	1.69
ORIOLA	350.*	Q10	60.34	10.93	12.01	12.48	13.60	0.009328	5.58	10.81	10.01	1.71
ORIOLA	350.*	Q100	151.86	10.93	12.95	13.80	15.83	0.008909	7.52	20.20	10.01	1.69
ORIOLA	350.*	Q500	202.06	10.93	13.37	14.40	16.86	0.009059	8.28	24.42	10.02	1.69
ORIOLA	355.*	Q10	60.34	10.98	12.06	12.52	13.65	0.009282	5.57	10.83	10.01	1.71
ORIOLA	355.*	Q100	151.86	10.98	13.00	13.84	15.88	0.008903	7.52	20.20	10.01	1.69
ORIOLA	355.*	Q500	202.06	10.98	13.42	14.44	16.91	0.009054	8.27	24.42	10.02	1.69
ORIOLA	360	Q10	60.34	11.03	12.11	12.57	13.70	0.009319	5.58	10.81	10.01	1.71
ORIOLA	360	Q100	151.86	11.03	13.05	13.89	15.93	0.008897	7.52	20.21	10.01	1.69
ORIOLA	360	Q500	202.06	11.03	13.47	14.49	16.96	0.009051	8.27	24.42	10.02	1.69
ORIOLA	365.*	Q10	60.34	11.08	12.16	12.62	13.74	0.009272	5.57	10.83	10.01	1.71
ORIOLA	365.*	Q100	151.86	11.08	13.10	13.94	15.97	0.008891	7.51	20.21	10.01	1.69
ORIOLA	365.*	Q500	202.06	11.08	13.52	14.54	17.00	0.009046	8.27	24.43	10.02	1.69
ORIOLA	370.*	Q10	60.34	11.12	12.21	12.67	13.79	0.009306	5.58	10.82	10.01	1.71
ORIOLA	370.*	Q100	151.86	11.12	13.15	13.99	16.02	0.008885	7.51	20.22	10.01	1.69
ORIOLA	370.*	Q500	202.06	11.12	13.57	14.59	17.05	0.009043	8.27	24.43	10.02	1.69
ORIOLA	375.*	Q10	60.34	11.17	12.25	12.72	13.84	0.009321	5.58	10.81	10.01	1.71
ORIOLA	375.*	Q100	151.86	11.17	13.19	14.03	16.07	0.008880	7.51	20.22	10.01	1.69
ORIOLA	375.*	Q500	202.06	11.17	13.62	14.63	17.09	0.009020	8.26	24.45	10.02	1.69
ORIOLA	380	Q10	60.34	11.22	12.30	12.76	13.89	0.009353	5.59	10.80	10.01	1.72
ORIOLA	380	Q100	151.86	11.22	13.24	14.08	16.11	0.008874	7.51	20.22	10.01	1.69
ORIOLA	380	Q500	202.06	11.22	13.66	14.68	17.14	0.009016	8.26	24.46	10.02	1.69
ORIOLA	385.*	Q10	60.34	11.27	12.35	12.81	13.93	0.009311	5.58	10.82	10.01	1.71
ORIOLA	385.*	Q100	151.86	11.27	13.29	14.13	16.16	0.008868	7.51	20.23	10.01	1.69
ORIOLA	385.*	Q500	202.06	11.27	13.71	14.73	17.19	0.009011	8.26	24.46	10.02	1.69
ORIOLA	390.*	Q10	60.34	11.32	12.40	12.86	13.98	0.009340	5.58	10.81	10.01	1.71
ORIOLA	390.*	Q100	151.86	11.32	13.34	14.18	16.21	0.008862	7.51	20.23	10.01	1.69
ORIOLA	390.*	Q500	202.06	11.32	13.76	14.78	17.24	0.009007	8.26	24.46	10.02	1.69
ORIOLA	395.*	Q10	60.34	11.36	12.44	12.91	14.03	0.009370	5.59	10.80	10.01	1.72
ORIOLA	395.*	Q100	151.86	11.36	13.39	14.23	16.25	0.008856	7.50	20.24	10.01	1.68
ORIOLA	395.*	Q500	202.06	11.36	13.81	14.83	17.28	0.009003	8.26	24.47	10.02	1.69
ORIOLA	400	Q10	60.34	11.41	12.49	12.95	14.08	0.009331	5.58	10.81	10.01	1.71
ORIOLA	400	Q100	151.86	11.41	13.43	14.27	16.30	0.008850	7.50	20.24	10.01	1.68
ORIOLA	400	Q500	202.06	11.41	13.86	14.87	17.33	0.008998	8.26	24.47	10.02	1.69
ORIOLA	405.*	Q10	60.34	11.46	12.54	13.00	14.13	0.009362	5.59	10.80	10.01	1.72
ORIOLA	405.*	Q100	151.86	11.46	13.48	14.32	16.35	0.008844	7.50	20.25	10.01	1.68
ORIOLA	405.*	Q500	202.06	11.46	13.91	14.92	17.38	0.008994	8.26	24.48	10.02	1.69
ORIOLA	410.*	Q10	60.34	11.51	12.59	13.05	14.18	0.009321	5.58	10.81	10.01	1.71
ORIOLA	410.*	Q100	151.86	11.51	13.53	14.37	16.40	0.008837	7.50	20.25	10.01	1.68
ORIOLA	410.*	Q500	202.06	11.51	13.95	14.97	17.42	0.008990	8.25	24.48	10.02	1.69

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	415.*	Q10	60.34	11.56	12.64	13.10	14.23	0.009353	5.59	10.80	10.01	1.72
ORIOLA	415.*	Q100	151.86	11.56	13.58	14.42	16.44	0.008831	7.50	20.26	10.01	1.68
ORIOLA	415.*	Q500	202.06	11.56	14.00	15.02	17.47	0.008985	8.25	24.48	10.02	1.68
ORIOLA	420	Q10	60.34	11.60	12.69	13.15	14.27	0.009311	5.58	10.82	10.01	1.71
ORIOLA	420	Q100	151.86	11.60	13.63	14.47	16.49	0.008824	7.49	20.26	10.01	1.68
ORIOLA	420	Q500	202.06	11.60	14.05	15.07	17.52	0.008981	8.25	24.49	10.02	1.68
ORIOLA	425.*	Q10	60.34	11.65	12.73	13.19	14.32	0.009272	5.57	10.83	10.01	1.71
ORIOLA	425.*	Q100	151.86	11.65	13.68	14.51	16.54	0.008818	7.49	20.27	10.01	1.68
ORIOLA	425.*	Q500	202.06	11.65	14.10	15.11	17.57	0.008976	8.25	24.49	10.02	1.68
ORIOLA	430.*	Q10	60.34	11.70	12.78	13.24	14.36	0.009221	5.56	10.85	10.01	1.70
ORIOLA	430.*	Q100	151.86	11.70	13.73	14.56	16.58	0.008793	7.49	20.29	10.01	1.68
ORIOLA	430.*	Q500	202.06	11.70	14.15	15.16	17.61	0.008972	8.25	24.50	10.02	1.68
ORIOLA	435.*	Q10	60.34	11.75	12.83	13.29	14.41	0.009244	5.56	10.84	10.01	1.71
ORIOLA	435.*	Q100	151.86	11.75	13.77	14.61	16.63	0.008788	7.48	20.29	10.01	1.68
ORIOLA	435.*	Q500	202.06	11.75	14.20	15.21	17.66	0.008948	8.24	24.52	10.02	1.68
ORIOLA	440	Q10	60.34	11.80	12.88	13.34	14.45	0.009188	5.55	10.86	10.01	1.70
ORIOLA	440	Q100	151.86	11.80	13.82	14.66	16.67	0.008762	7.48	20.31	10.01	1.68
ORIOLA	440	Q500	202.06	11.80	14.25	15.26	17.70	0.008943	8.24	24.52	10.02	1.68
ORIOLA	445.*	Q10	60.34	11.84	12.93	13.39	14.50	0.009133	5.54	10.89	10.01	1.70
ORIOLA	445.*	Q100	151.86	11.84	13.87	14.71	16.72	0.008737	7.47	20.33	10.01	1.67
ORIOLA	445.*	Q500	202.06	11.84	14.29	15.31	17.75	0.008939	8.24	24.53	10.02	1.68
ORIOLA	450.*	Q10	60.34	11.89	12.98	13.43	14.54	0.009070	5.53	10.91	10.01	1.69
ORIOLA	450.*	Q100	151.86	11.89	13.92	14.75	16.76	0.008711	7.46	20.35	10.01	1.67
ORIOLA	450.*	Q500	202.06	11.89	14.34	15.35	17.80	0.008934	8.24	24.53	10.02	1.68
ORIOLA	455.*	Q10	60.34	11.94	13.03	13.48	14.59	0.009061	5.53	10.91	10.01	1.69
ORIOLA	455.*	Q100	151.86	11.94	13.98	14.80	16.81	0.008683	7.45	20.37	10.01	1.67
ORIOLA	455.*	Q500	202.06	11.94	14.39	15.40	17.85	0.008929	8.23	24.54	10.02	1.68
ORIOLA	460	Q10	60.34	11.99	13.08	13.53	14.63	0.009052	5.53	10.92	10.01	1.69
ORIOLA	460	Q100	151.86	11.99	14.03	14.85	16.85	0.008655	7.45	20.40	10.01	1.67
ORIOLA	460	Q500	202.06	11.99	14.44	15.45	17.89	0.008925	8.23	24.54	10.02	1.68
ORIOLA	465.*	Q10	60.34	12.04	13.13	13.58	14.68	0.009042	5.53	10.92	10.01	1.69
ORIOLA	465.*	Q100	151.86	12.04	14.08	14.90	16.89	0.008625	7.44	20.42	10.01	1.66
ORIOLA	465.*	Q500	202.06	12.04	14.49	15.50	17.94	0.008920	8.23	24.55	10.02	1.68
ORIOLA	470.*	Q10	60.34	12.08	13.17	13.63	14.73	0.009034	5.52	10.92	10.01	1.69
ORIOLA	470.*	Q100	151.86	12.08	14.13	14.95	16.94	0.008596	7.43	20.44	10.01	1.66
ORIOLA	470.*	Q500	202.06	12.08	14.54	15.55	17.99	0.008915	8.23	24.55	10.02	1.68
ORIOLA	475.*	Q10	60.34	12.13	13.22	13.67	14.78	0.009024	5.52	10.93	10.01	1.69
ORIOLA	475.*	Q100	151.86	12.13	14.18	14.99	16.98	0.008564	7.42	20.47	10.01	1.66
ORIOLA	475.*	Q500	202.06	12.13	14.58	15.59	18.03	0.008910	8.23	24.56	10.02	1.68
ORIOLA	480	Q10	60.34	12.18	13.27	13.72	14.82	0.009015	5.52	10.93	10.01	1.69
ORIOLA	480	Q100	151.86	12.18	14.23	15.04	17.02	0.008532	7.41	20.50	10.01	1.65
ORIOLA	480	Q500	202.06	12.18	14.63	15.64	18.08	0.008905	8.23	24.56	10.02	1.68
ORIOLA	485.*	Q10	60.34	12.23	13.32	13.77	14.87	0.009005	5.52	10.94	10.01	1.68
ORIOLA	485.*	Q100	151.86	12.23	14.28	15.09	17.07	0.008498	7.40	20.52	10.01	1.65
ORIOLA	485.*	Q500	202.06	12.23	14.68	15.69	18.13	0.008900	8.23	24.57	10.02	1.68
ORIOLA	490.*	Q10	60.34	12.27	13.37	13.82	14.92	0.008995	5.52	10.94	10.01	1.68
ORIOLA	490.*	Q100	151.86	12.27	14.33	15.14	17.11	0.008465	7.39	20.55	10.01	1.65
ORIOLA	490.*	Q500	202.06	12.27	14.73	15.74	18.18	0.008895	8.22	24.57	10.02	1.68
ORIOLA	495.*	Q10	60.34	12.32	13.42	13.87	14.97	0.008985	5.51	10.94	10.01	1.68
ORIOLA	495.*	Q100	151.86	12.32	14.38	15.19	17.15	0.008429	7.38	20.58	10.01	1.64
ORIOLA	495.*	Q500	202.06	12.32	14.78	15.79	18.22	0.008890	8.22	24.57	10.02	1.68
ORIOLA	500	Q10	60.34	12.37	13.47	13.91	15.01	0.008976	5.51	10.95	10.01	1.68
ORIOLA	500	Q100	151.86	12.37	14.43	15.23	17.20	0.008393	7.37	20.61	10.01	1.64
ORIOLA	500	Q500	202.06	12.37	14.83	15.83	18.27	0.008885	8.22	24.58	10.02	1.68
ORIOLA	505.*	Q10	60.34	12.42	13.51	13.96	15.06	0.008966	5.51	10.95	10.01	1.68
ORIOLA	505.*	Q100	151.86	12.42	14.48	15.28	17.24	0.008355	7.36	20.64	10.01	1.64
ORIOLA	505.*	Q500	202.06	12.42	14.88	15.88	18.32	0.008880	8.22	24.58	10.02	1.67
ORIOLA	510.*	Q10	60.34	12.47	13.56	14.01	15.11	0.008956	5.51	10.95	10.01	1.68
ORIOLA	510.*	Q100	151.86	12.47	14.53	15.33	17.28	0.008317	7.35	20.67	10.01	1.63
ORIOLA	510.*	Q500	202.06	12.47	14.92	15.93	18.36	0.008876	8.22	24.59	10.02	1.67
ORIOLA	515.*	Q10	60.34	12.51	13.61	14.06	15.15	0.008893	5.50	10.98	10.01	1.67
ORIOLA	515.*	Q100	151.86	12.51	14.58	15.38	17.32	0.008284	7.34	20.70	10.01	1.63
ORIOLA	515.*	Q500	202.06	12.51	14.97	15.98	18.41	0.008872	8.22	24.59	10.02	1.67

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ORIOLA	520	Q10	60.34	12.56	13.66	14.10	15.20	0.008882	5.49	10.98	10.01	1.67
ORIOLA	520	Q100	151.86	12.56	14.63	15.42	17.37	0.008242	7.32	20.74	10.01	1.62
ORIOLA	520	Q500	202.06	12.56	15.02	16.02	18.46	0.008866	8.21	24.60	10.02	1.67
ORIOLA	525.*	Q10	60.34	12.61	13.71	14.15	15.24	0.008872	5.49	10.99	10.01	1.67
ORIOLA	525.*	Q100	151.86	12.61	14.69	15.47	17.41	0.008201	7.31	20.77	10.01	1.62
ORIOLA	525.*	Q500	202.06	12.61	15.07	16.07	18.50	0.008862	8.21	24.60	10.02	1.67
ORIOLA	530.*	Q10	60.34	12.66	13.76	14.20	15.29	0.008825	5.48	11.01	10.01	1.67
ORIOLA	530.*	Q100	151.86	12.66	14.74	15.52	17.45	0.008156	7.30	20.81	10.01	1.62
ORIOLA	530.*	Q500	202.06	12.66	15.12	16.12	18.55	0.008856	8.21	24.61	10.02	1.67
ORIOLA	535.*	Q10	60.34	12.71	13.81	14.25	15.34	0.008815	5.48	11.01	10.01	1.67
ORIOLA	535.*	Q100	151.86	12.71	14.79	15.57	17.49	0.008112	7.28	20.85	10.01	1.61
ORIOLA	535.*	Q500	202.06	12.71	15.17	16.17	18.60	0.008851	8.21	24.61	10.02	1.67
ORIOLA	540	Q10	60.34	12.75	13.86	14.30	15.38	0.008764	5.47	11.03	10.01	1.66
ORIOLA	540	Q100	151.86	12.75	14.84	15.62	17.53	0.008064	7.27	20.89	10.01	1.61
ORIOLA	540	Q500	202.06	12.75	15.21	16.22	18.65	0.008846	8.21	24.62	10.02	1.67
ORIOLA	545.*	Q10	60.34	12.80	13.91	14.34	15.43	0.008714	5.46	11.05	10.01	1.66
ORIOLA	545.*	Q100	151.86	12.80	14.89	15.66	17.57	0.008017	7.25	20.93	10.01	1.60
ORIOLA	545.*	Q500	202.06	12.80	15.26	16.26	18.69	0.008841	8.21	24.62	10.02	1.67
ORIOLA	550.*	Q10	60.34	12.85	13.96	14.39	15.47	0.008658	5.45	11.08	10.01	1.65
ORIOLA	550.*	Q100	151.86	12.85	14.95	15.71	17.62	0.007967	7.24	20.98	10.01	1.60
ORIOLA	550.*	Q500	202.06	12.85	15.31	16.31	18.74	0.008835	8.20	24.63	10.02	1.67
ORIOLA	555.*	Q10	60.34	12.90	14.01	14.44	15.51	0.008601	5.44	11.10	10.01	1.65
ORIOLA	555.*	Q100	151.86	12.90	15.00	15.76	17.66	0.007916	7.22	21.02	10.01	1.59
ORIOLA	555.*	Q500	202.06	12.90	15.36	16.36	18.79	0.008830	8.20	24.63	10.02	1.67
ORIOLA	560	Q10	60.34	12.95	14.06	14.49	15.56	0.008538	5.42	11.13	10.01	1.64
ORIOLA	560	Q100	151.86	12.95	15.05	15.81	17.70	0.007863	7.21	21.07	10.01	1.59
ORIOLA	560	Q500	202.06	12.95	15.41	16.41	18.83	0.008825	8.20	24.64	10.02	1.67
ORIOLA	565.*	Q10	60.34	12.99	14.11	14.54	15.60	0.008473	5.41	11.15	10.01	1.64
ORIOLA	565.*	Q100	151.86	12.99	15.10	15.86	17.74	0.007809	7.19	21.12	10.01	1.58
ORIOLA	565.*	Q500	202.06	12.99	15.46	16.46	18.88	0.008820	8.20	24.64	10.02	1.67
ORIOLA	570.*	Q10	60.34	13.04	14.16	14.59	15.64	0.008402	5.40	11.18	10.01	1.63
ORIOLA	570.*	Q100	151.86	13.04	15.16	15.90	17.78	0.007752	7.17	21.17	10.01	1.57
ORIOLA	570.*	Q500	202.06	13.04	15.51	16.50	18.93	0.008799	8.19	24.66	10.02	1.67
ORIOLA	575.*	Q10	60.34	13.09	14.21	14.63	15.69	0.008341	5.38	11.21	10.01	1.62
ORIOLA	575.*	Q100	151.86	13.09	15.21	15.95	17.82	0.007700	7.16	21.22	10.01	1.57
ORIOLA	575.*	Q500	202.06	13.09	15.55	16.55	18.97	0.008795	8.19	24.67	10.02	1.67
ORIOLA	580	Q10	60.34	13.14	14.26	14.68	15.73	0.008265	5.37	11.24	10.01	1.62
ORIOLA	580	Q100	151.86	13.14	15.26	16.00	17.86	0.007642	7.14	21.28	10.01	1.56
ORIOLA	580	Q500	202.06	13.14	15.60	16.60	19.02	0.008790	8.19	24.67	10.02	1.67
ORIOLA	585.*	Q10	60.34	13.19	14.31	14.73	15.77	0.008180	5.35	11.28	10.01	1.61
ORIOLA	585.*	Q100	151.86	13.19	15.32	16.05	17.90	0.007579	7.12	21.34	10.01	1.56
ORIOLA	585.*	Q500	202.06	13.19	15.65	16.65	19.06	0.008768	8.18	24.69	10.02	1.66
ORIOLA	590.*	Q10	60.34	13.23	14.36	14.78	15.81	0.008094	5.33	11.32	10.01	1.60
ORIOLA	590.*	Q100	151.86	13.23	15.37	16.10	17.94	0.007516	7.10	21.40	10.01	1.55
ORIOLA	590.*	Q500	202.06	13.23	15.70	16.70	19.11	0.008763	8.18	24.70	10.02	1.66
ORIOLA	595.*	Q10	60.34	13.28	14.42	14.82	15.85	0.007998	5.31	11.36	10.01	1.59
ORIOLA	595.*	Q100	151.86	13.28	15.43	16.14	17.98	0.007449	7.07	21.46	10.01	1.54
ORIOLA	595.*	Q500	202.06	13.28	15.75	16.74	19.15	0.008741	8.17	24.72	10.02	1.66
ORIOLA	600	Q10	60.34	13.33	14.47	14.87	15.89	0.007901	5.29	11.41	10.01	1.58
ORIOLA	600	Q100	151.86	13.33	15.48	16.19	18.01	0.007382	7.05	21.53	10.01	1.54
ORIOLA	600	Q500	202.06	13.33	15.80	16.79	19.20	0.008720	8.17	24.74	10.02	1.66
ORIOLA	605.*	Q10	60.34	13.38	14.52	14.92	15.94	0.007793	5.27	11.46	10.01	1.57
ORIOLA	605.*	Q100	151.86	13.38	15.54	16.24	18.05	0.007310	7.03	21.60	10.01	1.53
ORIOLA	605.*	Q500	202.06	13.38	15.85	16.84	19.24	0.008696	8.16	24.76	10.02	1.66
ORIOLA	610.*	Q10	60.34	13.42	14.58	14.97	15.98	0.007683	5.24	11.51	10.01	1.56
ORIOLA	610.*	Q100	151.86	13.42	15.59	16.29	18.09	0.007238	7.01	21.68	10.01	1.52
ORIOLA	610.*	Q500	202.06	13.42	15.90	16.89	19.29	0.008674	8.15	24.78	10.02	1.65
ORIOLA	615.*	Q10	60.34	13.47	14.63	15.02	16.02	0.007562	5.21	11.57	10.01	1.55
ORIOLA	615.*	Q100	151.86	13.47	15.65	16.34	18.13	0.007162	6.98	21.75	10.01	1.51
ORIOLA	615.*	Q500	202.06	13.47	15.95	16.94	19.33	0.008650	8.14	24.81	10.02	1.65
ORIOLA	620	Q10	60.34	13.52	14.68	15.06	16.05	0.007438	5.19	11.63	10.01	1.54
ORIOLA	620	Q100	151.86	13.52	15.70	16.38	18.17	0.007085	6.96	21.83	10.01	1.50

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	620	Q500	202.06	13.52	16.00	16.98	19.38	0.008626	8.14	24.83	10.02	1.65
ORIOLA	625.*	Q10	60.34	13.57	14.74	15.11	16.09	0.007304	5.16	11.70	10.01	1.52
ORIOLA	625.*	Q100	151.86	13.57	15.76	16.43	18.20	0.007004	6.93	21.92	10.01	1.49
ORIOLA	625.*	Q500	202.06	13.57	16.05	17.03	19.42	0.008601	8.13	24.86	10.02	1.65
ORIOLA	630.*	Q10	60.34	13.62	14.79	15.16	16.13	0.007176	5.13	11.77	10.01	1.51
ORIOLA	630.*	Q100	151.86	13.62	15.81	16.48	18.24	0.006927	6.90	22.00	10.01	1.49
ORIOLA	630.*	Q500	202.06	13.62	16.10	17.08	19.46	0.008581	8.12	24.88	10.02	1.65
ORIOLA	635.*	Q10	60.34	13.66	14.85	15.21	16.17	0.007034	5.09	11.85	10.01	1.49
ORIOLA	635.*	Q100	151.86	13.66	15.87	16.53	18.28	0.006842	6.87	22.10	10.01	1.48
ORIOLA	635.*	Q500	202.06	13.66	16.15	17.13	19.51	0.008555	8.11	24.90	10.02	1.64
ORIOLA	640	Q10	60.34	13.71	14.90	15.25	16.21	0.006882	5.06	11.93	10.01	1.48
ORIOLA	640	Q100	151.86	13.71	15.93	16.57	18.31	0.006752	6.84	22.20	10.01	1.47
ORIOLA	640	Q500	202.06	13.71	16.20	17.17	19.55	0.008528	8.10	24.93	10.02	1.64
ORIOLA	645.*	Q10	60.34	13.76	14.96	15.30	16.25	0.006728	5.02	12.02	10.01	1.46
ORIOLA	645.*	Q100	151.86	13.76	15.99	16.62	18.35	0.006661	6.81	22.30	10.01	1.46
ORIOLA	645.*	Q500	202.06	13.76	16.25	17.22	19.59	0.008501	8.10	24.96	10.02	1.64
ORIOLA	650.*	Q10	60.34	13.81	15.02	15.35	16.28	0.006567	4.98	12.11	10.01	1.45
ORIOLA	650.*	Q100	151.86	13.81	16.05	16.67	18.39	0.006565	6.78	22.41	10.01	1.45
ORIOLA	650.*	Q500	202.06	13.81	16.30	17.27	19.64	0.008472	8.09	24.99	10.02	1.63
ORIOLA	655.*	Q10	60.34	13.86	15.08	15.40	16.32	0.006406	4.94	12.21	10.01	1.43
ORIOLA	655.*	Q100	151.86	13.86	16.11	16.72	18.42	0.006468	6.74	22.52	10.01	1.43
ORIOLA	655.*	Q500	202.06	13.86	16.36	17.32	19.68	0.008444	8.08	25.02	10.02	1.63
ORIOLA	660	Q10	60.34	13.90	15.14	15.45	16.35	0.006170	4.88	12.36	10.01	1.40
ORIOLA	660	Q100	151.86	13.90	16.17	16.77	18.46	0.006368	6.71	22.65	10.02	1.42
ORIOLA	660	Q500	202.06	13.90	16.41	17.37	19.72	0.008414	8.07	25.05	10.02	1.63
ORIOLA	665.*	Q10	60.34	13.95	15.21	15.49	16.38	0.005902	4.81	12.54	10.01	1.37
ORIOLA	665.*	Q100	151.86	13.95	16.23	16.81	18.49	0.006266	6.67	22.77	10.02	1.41
ORIOLA	665.*	Q500	202.06	13.95	16.46	17.41	19.76	0.008384	8.06	25.08	10.02	1.63
ORIOLA	670	Q10	60.34	14.00	15.27	15.55	16.42	0.005671	4.75	12.71	10.01	1.35
ORIOLA	670	Q100	151.86	14.00	16.29	16.86	18.53	0.006160	6.63	22.91	10.02	1.40
ORIOLA	670	Q500	202.06	14.00	16.51	17.46	19.81	0.008363	8.05	25.10	10.02	1.62
ORIOLA	675		Bridge									
ORIOLA	680	Q10	60.34	14.09	16.18	15.64	16.60	0.001287	2.90	20.82	10.01	0.64
ORIOLA	680	Q100	151.86	14.09	17.90	16.96	18.71	0.001458	3.99	38.06	10.02	0.65
ORIOLA	680	Q500	202.06	14.09	19.39	17.56	20.13	0.001054	3.81	53.01	10.02	0.53
ORIOLA	685.*	Q10	60.34	14.14	15.28	15.69	16.71	0.007969	5.30	11.38	10.01	1.59
ORIOLA	685.*	Q100	151.86	14.14	17.89		18.72	0.001520	4.05	37.49	10.02	0.67
ORIOLA	685.*	Q500	202.06	14.14	19.38		20.14	0.001082	3.85	52.48	10.02	0.54
ORIOLA	690	Q10	60.34	14.19	15.33	15.73	16.75	0.007870	5.28	11.42	10.01	1.58
ORIOLA	690	Q100	151.86	14.19	17.88		18.74	0.001588	4.12	36.90	10.02	0.68
ORIOLA	690	Q500	202.06	14.19	19.38		20.15	0.001112	3.89	51.95	10.02	0.55
ORIOLA	695.*	Q10	60.34	14.24	15.38	15.78	16.79	0.007776	5.26	11.47	10.01	1.57
ORIOLA	695.*	Q100	151.86	14.24	17.86		18.75	0.001660	4.18	36.31	10.02	0.70
ORIOLA	695.*	Q500	202.06	14.24	19.37		20.16	0.001142	3.93	51.43	10.02	0.55
ORIOLA	700	Q10	60.34	14.29	15.44	15.83	16.83	0.007661	5.24	11.52	10.01	1.56
ORIOLA	700	Q100	151.86	14.29	17.85	17.15	18.77	0.001740	4.25	35.70	10.02	0.72
ORIOLA	700	Q500	202.06	14.29	19.37		20.17	0.001175	3.97	50.88	10.02	0.56
ORIOLA	705.*	Q10	60.34	14.33	15.49	15.88	16.87	0.007542	5.21	11.58	10.01	1.55
ORIOLA	705.*	Q100	151.86	14.33	16.63	17.20	18.85	0.006087	6.60	23.00	10.02	1.39
ORIOLA	705.*	Q500	202.06	14.33	19.36		20.18	0.001209	4.01	50.34	10.02	0.57
ORIOLA	710	Q10	60.34	14.38	15.54	15.93	16.91	0.007431	5.19	11.64	10.01	1.53
ORIOLA	710	Q100	151.86	14.38	16.69	17.24	18.89	0.005986	6.56	23.13	10.02	1.38
ORIOLA	710	Q500	202.06	14.38	19.35		20.19	0.001244	4.06	49.81	10.02	0.58
ORIOLA	715.*	Q10	60.34	14.47	15.68	16.02	16.96	0.006662	5.00	12.06	10.01	1.46
ORIOLA	715.*	Q100	151.86	14.47	16.85	17.34	18.93	0.005514	6.38	23.79	10.02	1.32
ORIOLA	715.*	Q500	202.06	14.47	19.33		20.21	0.001326	4.15	48.64	10.02	0.60
ORIOLA	720	Q10	60.34	14.57	15.83	16.12	17.00	0.005818	4.79	12.60	10.01	1.36
ORIOLA	720	Q100	151.86	14.57	17.03	17.43	18.97	0.004991	6.17	24.63	10.02	1.26
ORIOLA	720	Q500	202.06	14.57	19.31		20.23	0.001417	4.26	47.44	10.02	0.62
ORIOLA	730.*	Q10	60.34	14.67	16.01	16.21	17.04	0.004813	4.50	13.41	10.01	1.24
ORIOLA	730.*	Q100	151.86	14.67	17.24	17.53	19.01	0.004370	5.89	25.79	10.02	1.17
ORIOLA	730.*	Q500	202.06	14.67	19.28		20.25	0.001521	4.37	46.21	10.02	0.65

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	740	Q10	60.34	14.76	16.31	16.31	17.08	0.002629	3.90	15.48	10.01	1.00
ORIOLA	740	Q100	151.86	14.76	17.63	17.63	19.06	0.002470	5.30	28.65	10.02	1.00
ORIOLA	740	Q500	202.06	14.76	19.25	18.22	20.28	0.001638	4.49	44.96	10.02	0.68
ORIOLA	745.*	Q10	60.34	14.79	16.82	16.32	17.14	0.001622	2.50	24.14	15.17	0.61
ORIOLA	745.*	Q100	151.86	14.79	18.99	17.43	19.19	0.000434	2.08	87.23	40.61	0.35
ORIOLA	745.*	Q500	202.06	14.79	20.24	18.09	20.37	0.000206	1.75	137.98	40.61	0.25
ORIOLA	750.*	Q10	60.34	14.82	17.01	16.26	17.16	0.001424	1.73	35.10	25.76	0.45
ORIOLA	750.*	Q100	151.86	14.82	19.12	17.18	19.20	0.000282	1.38	138.99	70.69	0.23
ORIOLA	750.*	Q500	202.06	14.82	20.33	17.58	20.38	0.000126	1.12	225.28	71.20	0.16
ORIOLA	755.*	Q10	60.34	14.85	17.10	16.18	17.18	0.000909	1.21	52.12	42.17	0.30
ORIOLA	755.*	Q100	151.86	14.85	19.16	16.89	19.20	0.000202	0.99	193.01	88.77	0.16
ORIOLA	755.*	Q500	202.06	14.85	20.36	17.21	20.38	0.000099	0.84	309.60	101.80	0.12
ORIOLA	760	Q10	60.34	14.88	17.15	16.03	17.18	0.000558	0.86	76.18	58.37	0.21
ORIOLA	760	Q100	151.86	14.88	19.18	16.60	19.21	0.000153	0.75	252.73	108.25	0.12
ORIOLA	760	Q500	202.06	14.88	20.37	16.85	20.38	0.000083	0.66	391.93	128.88	0.09
ORIOLA	765.*	Q10	60.34	14.91	17.15		17.19	0.000643	0.93	72.26	56.72	0.22
ORIOLA	765.*	Q100	151.86	14.91	19.18		19.21	0.000167	0.79	246.76	110.74	0.13
ORIOLA	765.*	Q500	202.06	14.91	20.37		20.38	0.000087	0.68	390.02	132.14	0.10
ORIOLA	770.*	Q10	60.34	14.93	17.15		17.19	0.000744	1.00	68.54	55.08	0.24
ORIOLA	770.*	Q100	151.86	14.93	19.18		19.21	0.000184	0.83	241.43	114.57	0.13
ORIOLA	770.*	Q500	202.06	14.93	20.37		20.38	0.000090	0.69	388.55	132.62	0.10
ORIOLA	775.*	Q10	60.34	14.96	17.15		17.20	0.000870	1.09	64.92	53.72	0.26
ORIOLA	775.*	Q100	151.86	14.96	19.18		19.21	0.000200	0.86	236.93	117.74	0.14
ORIOLA	775.*	Q500	202.06	14.96	20.37		20.39	0.000093	0.70	387.21	132.74	0.10
ORIOLA	780	Q10	60.34	14.99	17.15		17.21	0.001027	1.19	61.46	52.61	0.28
ORIOLA	780	Q100	151.86	14.99	19.18		19.21	0.000217	0.90	233.21	120.91	0.15
ORIOLA	780	Q500	202.06	14.99	20.37		20.39	0.000095	0.71	386.01	132.86	0.10
ORIOLA	785.*	Q10	60.34	15.02	17.15		17.21	0.001129	1.21	59.04	52.69	0.29
ORIOLA	785.*	Q100	151.86	15.02	19.18		19.21	0.000230	0.91	227.08	121.84	0.15
ORIOLA	785.*	Q500	202.06	15.02	20.37		20.39	0.000098	0.72	381.79	133.60	0.10
ORIOLA	790.*	Q10	60.34	15.04	17.15		17.22	0.001229	1.21	56.85	52.68	0.30
ORIOLA	790.*	Q100	151.86	15.04	19.18		19.22	0.000244	0.92	221.05	122.78	0.15
ORIOLA	790.*	Q500	202.06	15.04	20.37		20.39	0.000101	0.72	377.62	134.34	0.10
ORIOLA	795.*	Q10	60.34	15.07	17.16		17.23	0.001321	1.21	54.94	51.99	0.31
ORIOLA	795.*	Q100	151.86	15.07	19.18		19.22	0.000257	0.93	215.07	123.80	0.16
ORIOLA	795.*	Q500	202.06	15.07	20.37		20.39	0.000104	0.72	373.49	135.07	0.11
ORIOLA	800	Q10	60.34	15.09	17.16		17.23	0.001406	1.20	53.42	50.45	0.32
ORIOLA	800	Q100	151.86	15.09	19.18		19.22	0.000271	0.94	209.21	125.01	0.16
ORIOLA	800	Q500	202.06	15.09	20.37		20.39	0.000107	0.72	369.45	135.81	0.11
ORIOLA	805.*	Q10	60.34	15.12	17.17		17.24	0.001420	1.19	52.99	48.09	0.32
ORIOLA	805.*	Q100	151.86	15.12	19.18		19.22	0.000282	0.95	203.02	120.29	0.16
ORIOLA	805.*	Q500	202.06	15.12	20.37		20.39	0.000112	0.73	362.29	135.91	0.11
ORIOLA	810.*	Q10	60.34	15.15	17.18		17.25	0.001428	1.18	52.92	46.52	0.32
ORIOLA	810.*	Q100	151.86	15.15	19.18		19.22	0.000291	0.96	197.32	115.51	0.17
ORIOLA	810.*	Q500	202.06	15.15	20.37		20.39	0.000117	0.74	355.21	136.02	0.11
ORIOLA	815.*	Q10	60.34	15.18	17.19		17.26	0.001438	1.16	53.04	45.63	0.32
ORIOLA	815.*	Q100	151.86	15.18	19.18		19.22	0.000300	0.97	192.17	110.78	0.17
ORIOLA	815.*	Q500	202.06	15.18	20.37		20.39	0.000122	0.76	348.29	136.12	0.11
ORIOLA	820	Q10	60.34	15.21	17.20		17.26	0.001450	1.15	53.27	45.14	0.32
ORIOLA	820	Q100	151.86	15.21	19.18		19.23	0.000308	0.97	187.55	106.03	0.17
ORIOLA	820	Q500	202.06	15.21	20.37		20.39	0.000127	0.77	341.49	136.22	0.12
ORIOLA	825.*	Q10	60.34	15.24	17.20		17.27	0.001612	1.19	51.48	44.88	0.33
ORIOLA	825.*	Q100	151.86	15.24	19.18		19.23	0.000325	0.99	183.18	102.63	0.17
ORIOLA	825.*	Q500	202.06	15.24	20.37		20.39	0.000133	0.78	336.98	137.13	0.12
ORIOLA	830.*	Q10	60.34	15.27	17.21		17.28	0.001798	1.23	49.71	44.57	0.35
ORIOLA	830.*	Q100	151.86	15.27	19.19		19.23	0.000343	1.01	178.98	98.33	0.18
ORIOLA	830.*	Q500	202.06	15.27	20.37		20.39	0.000139	0.79	332.31	138.04	0.12
ORIOLA	835.*	Q10	60.34	15.30	17.21		17.29	0.002015	1.27	47.95	44.22	0.37
ORIOLA	835.*	Q100	151.86	15.30	19.19		19.23	0.000361	1.03	175.04	93.77	0.18
ORIOLA	835.*	Q500	202.06	15.30	20.37		20.39	0.000146	0.80	327.45	138.94	0.12
ORIOLA	840	Q10	60.34	15.33	17.22		17.31	0.002265	1.32	46.23	43.81	0.39
ORIOLA	840	Q100	151.86	15.33	19.19		19.24	0.000381	1.04	171.32	89.76	0.19

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	840	Q500	202.06	15.33	20.37		20.40	0.000153	0.82	322.42	139.85	0.13
ORIOLA	845.*	Q10	60.34	15.35	17.22		17.32	0.002583	1.38	44.07	42.80	0.41
ORIOLA	845.*	Q100	151.86	15.35	19.19		19.24	0.000410	1.07	165.62	86.56	0.19
ORIOLA	845.*	Q500	202.06	15.35	20.37		20.40	0.000163	0.84	314.49	138.14	0.13
ORIOLA	850.*	Q10	60.34	15.38	17.23		17.34	0.002955	1.45	41.99	41.81	0.44
ORIOLA	850.*	Q100	151.86	15.38	19.19		19.24	0.000442	1.10	159.92	82.86	0.20
ORIOLA	850.*	Q500	202.06	15.38	20.37		20.40	0.000173	0.86	306.48	136.43	0.13
ORIOLA	855.*	Q10	60.34	15.40	17.24		17.36	0.003390	1.52	40.00	40.84	0.47
ORIOLA	855.*	Q100	151.86	15.40	19.19		19.24	0.000477	1.14	154.25	78.77	0.21
ORIOLA	855.*	Q500	202.06	15.40	20.37		20.40	0.000185	0.88	298.41	134.73	0.14
ORIOLA	860	Q10	60.34	15.43	17.25		17.38	0.003904	1.59	38.11	39.91	0.50
ORIOLA	860	Q100	151.86	15.43	19.19		19.25	0.000516	1.17	148.60	74.50	0.22
ORIOLA	860	Q500	202.06	15.43	20.37		20.40	0.000199	0.91	290.29	133.02	0.14
ORIOLA	865.*	Q10	60.34	15.46	17.27		17.40	0.004113	1.63	37.35	39.54	0.51
ORIOLA	865.*	Q100	151.86	15.46	19.19		19.25	0.000551	1.20	141.31	63.69	0.22
ORIOLA	865.*	Q500	202.06	15.46	20.37		20.40	0.000221	0.95	276.32	129.27	0.15
ORIOLA	870.*	Q10	60.34	15.50	17.28		17.42	0.004313	1.66	36.64	39.03	0.52
ORIOLA	870.*	Q100	151.86	15.50	19.18		19.26	0.000615	1.26	133.32	59.54	0.24
ORIOLA	870.*	Q500	202.06	15.50	20.36		20.41	0.000250	1.01	261.61	125.51	0.16
ORIOLA	875.*	Q10	60.34	15.53	17.30		17.45	0.004522	1.70	35.90	37.88	0.54
ORIOLA	875.*	Q100	151.86	15.53	19.18		19.26	0.000700	1.34	124.57	55.38	0.25
ORIOLA	875.*	Q500	202.06	15.53	20.36		20.41	0.000286	1.08	246.11	121.76	0.17
ORIOLA	880	Q10	60.34	15.56	17.32		17.47	0.004768	1.74	34.85	35.18	0.55
ORIOLA	880	Q100	151.86	15.56	19.17		19.27	0.000813	1.44	115.09	51.19	0.27
ORIOLA	880	Q500	202.06	15.56	20.36		20.41	0.000331	1.15	229.82	118.00	0.18
ORIOLA	885.*	Q10	60.34	15.59	17.33		17.50	0.005271	1.83	33.25	34.46	0.58
ORIOLA	885.*	Q100	151.86	15.59	19.17		19.28	0.000873	1.48	112.48	50.98	0.28
ORIOLA	885.*	Q500	202.06	15.59	20.36		20.42	0.000354	1.19	225.29	118.16	0.19
ORIOLA	890.*	Q10	60.34	15.61	17.35		17.54	0.005865	1.92	31.55	32.95	0.61
ORIOLA	890.*	Q100	151.86	15.61	19.17		19.28	0.000944	1.54	109.53	50.76	0.29
ORIOLA	890.*	Q500	202.06	15.61	20.36		20.42	0.000379	1.23	220.43	118.32	0.20
ORIOLA	895.*	Q10	60.34	15.64	17.36		17.57	0.006506	2.03	29.95	31.25	0.64
ORIOLA	895.*	Q100	151.86	15.64	19.17		19.29	0.001031	1.60	106.27	50.54	0.30
ORIOLA	895.*	Q500	202.06	15.64	20.36		20.42	0.000408	1.27	215.23	118.47	0.20
ORIOLA	900	Q10	60.34	15.66	17.38		17.61	0.007259	2.14	28.37	29.79	0.68
ORIOLA	900	Q100	151.86	15.66	19.17		19.30	0.001139	1.67	102.63	50.31	0.32
ORIOLA	900	Q500	202.06	15.66	20.36		20.43	0.000443	1.32	209.65	118.63	0.21
ORIOLA	905.*	Q10	60.34	15.69	17.42		17.65	0.007280	2.15	28.27	29.89	0.68
ORIOLA	905.*	Q100	151.86	15.69	19.17		19.31	0.001205	1.71	100.29	49.39	0.33
ORIOLA	905.*	Q500	202.06	15.69	20.36		20.43	0.000472	1.35	204.44	118.08	0.22
ORIOLA	910.*	Q10	60.34	15.71	17.45		17.69	0.007296	2.16	28.19	30.02	0.68
ORIOLA	910.*	Q100	151.86	15.71	19.18		19.32	0.001278	1.75	97.90	48.47	0.34
ORIOLA	910.*	Q500	202.06	15.71	20.35		20.43	0.000505	1.39	199.16	117.52	0.22
ORIOLA	915.*	Q10	60.34	15.74	17.49		17.73	0.007319	2.17	28.11	30.21	0.68
ORIOLA	915.*	Q100	151.86	15.74	19.18		19.32	0.001359	1.79	95.47	47.54	0.35
ORIOLA	915.*	Q500	202.06	15.74	20.35		20.44	0.000541	1.43	193.81	116.96	0.23
ORIOLA	920	Q10	60.34	15.76	17.52		17.76	0.007346	2.18	28.05	30.38	0.68
ORIOLA	920	Q100	151.86	15.76	19.18		19.33	0.001448	1.83	93.03	46.63	0.36
ORIOLA	920	Q500	202.06	15.76	20.35		20.44	0.000581	1.48	188.41	116.41	0.24
ORIOLA	925.*	Q10	60.34	15.79	17.58		17.80	0.006511	2.10	29.22	31.15	0.65
ORIOLA	925.*	Q100	151.86	15.79	19.19		19.34	0.001455	1.83	93.13	46.87	0.36
ORIOLA	925.*	Q500	202.06	15.79	20.35		20.44	0.000598	1.50	185.93	116.78	0.24
ORIOLA	930.*	Q10	60.34	15.81	17.62		17.83	0.005983	2.05	30.11	31.77	0.62
ORIOLA	930.*	Q100	151.86	15.81	19.19		19.35	0.001461	1.83	93.24	47.10	0.36
ORIOLA	930.*	Q500	202.06	15.81	20.35		20.45	0.000616	1.51	183.43	117.15	0.25
ORIOLA	935.*	Q10	60.34	15.84	17.66		17.86	0.005607	2.01	30.83	32.27	0.61
ORIOLA	935.*	Q100	151.86	15.84	19.20		19.36	0.001469	1.84	93.33	47.35	0.36
ORIOLA	935.*	Q500	202.06	15.84	20.36		20.45	0.000635	1.53	180.91	117.52	0.25
ORIOLA	940	Q10	60.34	15.86	17.69		17.89	0.005302	1.98	31.48	32.72	0.59
ORIOLA	940	Q100	151.86	15.86	19.21		19.36	0.001476	1.84	93.42	47.58	0.36
ORIOLA	940	Q500	202.06	15.86	20.36		20.46	0.000654	1.55	178.37	117.89	0.25
ORIOLA	945.*	Q10	60.34	15.87	17.74		17.91	0.004660	1.85	33.45	34.35	0.55

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	945.*	Q100	151.86	15.87	19.23		19.37	0.001335	1.73	98.80	51.23	0.34
ORIOLA	945.*	Q500	202.06	15.87	20.36		20.46	0.000635	1.52	175.18	115.29	0.25
ORIOLA	950.*	Q10	60.34	15.88	17.78		17.94	0.004253	1.75	35.05	35.64	0.53
ORIOLA	950.*	Q100	151.86	15.88	19.25		19.38	0.001246	1.66	103.05	54.81	0.33
ORIOLA	950.*	Q500	202.06	15.88	20.37		20.46	0.000591	1.45	174.52	99.86	0.24
ORIOLA	955.*	Q10	60.34	15.88	17.82		17.96	0.003983	1.67	36.42	36.72	0.51
ORIOLA	955.*	Q100	151.86	15.88	19.27		19.39	0.001194	1.61	106.19	58.32	0.32
ORIOLA	955.*	Q500	202.06	15.88	20.39		20.47	0.000522	1.35	178.57	79.67	0.23
ORIOLA	960	Q10	60.34	15.89	17.85		17.98	0.003791	1.61	37.65	37.55	0.50
ORIOLA	960	Q100	151.86	15.89	19.28		19.39	0.001163	1.57	108.33	61.47	0.32
ORIOLA	960	Q500	202.06	15.89	20.40		20.47	0.000480	1.29	183.88	75.46	0.22
ORIOLA	965.*	Q10	60.34	15.94	17.87		18.00	0.004147	1.62	37.17	37.47	0.51
ORIOLA	965.*	Q100	151.86	15.94	19.28		19.40	0.001194	1.56	107.61	60.99	0.32
ORIOLA	965.*	Q500	202.06	15.94	20.40		20.47	0.000488	1.28	181.96	73.53	0.22
ORIOLA	970.*	Q10	60.34	15.99	17.88		18.02	0.004561	1.66	36.35	37.21	0.54
ORIOLA	970.*	Q100	151.86	15.99	19.29		19.40	0.001246	1.56	106.38	60.22	0.32
ORIOLA	970.*	Q500	202.06	15.99	20.40		20.48	0.000503	1.28	179.57	72.06	0.22
ORIOLA	975.*	Q10	60.34	16.03	17.90		18.05	0.004986	1.71	35.24	36.68	0.56
ORIOLA	975.*	Q100	151.86	16.03	19.29		19.41	0.001324	1.57	104.58	59.42	0.33
ORIOLA	975.*	Q500	202.06	16.03	20.40		20.48	0.000525	1.29	176.64	70.82	0.22
ORIOLA	980	Q10	60.34	16.08	17.92		18.08	0.005614	1.78	33.84	36.21	0.59
ORIOLA	980	Q100	151.86	16.08	19.30		19.42	0.001433	1.58	102.24	58.63	0.34
ORIOLA	980	Q500	202.06	16.08	20.40		20.48	0.000555	1.30	173.20	69.72	0.23
ORIOLA	985.*	Q10	60.34	16.18	17.92		18.13	0.007725	2.01	29.96	33.92	0.68
ORIOLA	985.*	Q100	151.86	16.18	19.29		19.43	0.001773	1.71	94.74	58.24	0.38
ORIOLA	985.*	Q500	202.06	16.18	20.40		20.49	0.000635	1.36	166.20	70.33	0.24
ORIOLA	990.*	Q10	60.34	16.27	17.93	17.78	18.19	0.010597	2.27	26.55	31.80	0.79
ORIOLA	990.*	Q100	151.86	16.27	19.28		19.45	0.002211	1.86	87.40	57.96	0.42
ORIOLA	990.*	Q500	202.06	16.27	20.40		20.49	0.000725	1.43	159.63	70.85	0.26
ORIOLA	995.*	Q10	60.34	16.37	17.83	17.89	18.27	0.021152	2.95	20.46	27.81	1.10
ORIOLA	995.*	Q100	151.86	16.37	19.27		19.47	0.002756	2.01	80.44	55.87	0.46
ORIOLA	995.*	Q500	202.06	16.37	20.40		20.50	0.000826	1.50	153.45	71.30	0.27
ORIOLA	1000	Q10	60.34	16.46	17.99	17.99	18.37	0.017659	2.76	21.86	28.64	1.01
ORIOLA	1000	Q100	151.86	16.46	19.27		19.50	0.003423	2.18	74.46	54.12	0.51
ORIOLA	1000	Q500	202.06	16.46	20.40		20.51	0.000939	1.57	147.66	71.70	0.29
ORIOLA	1005.*	Q10	60.34	16.53	18.17	18.05	18.45	0.011639	2.35	25.65	31.26	0.83
ORIOLA	1005.*	Q100	151.86	16.53	19.27		19.52	0.003732	2.30	71.95	53.65	0.54
ORIOLA	1005.*	Q500	202.06	16.53	20.40		20.51	0.000960	1.60	151.67	80.77	0.30
ORIOLA	1010.*	Q10	60.34	16.60	18.23		18.51	0.010821	2.37	25.63	31.83	0.81
ORIOLA	1010.*	Q100	151.86	16.60	19.27		19.55	0.004030	2.43	70.10	53.09	0.56
ORIOLA	1010.*	Q500	202.06	16.60	20.40		20.52	0.001033	1.68	152.04	91.30	0.31
ORIOLA	1015.*	Q10	60.34	16.67	18.27		18.57	0.010489	2.44	25.50	32.45	0.80
ORIOLA	1015.*	Q100	151.86	16.67	19.28		19.57	0.004314	2.55	68.91	53.48	0.58
ORIOLA	1015.*	Q500	202.06	16.67	20.40		20.53	0.001134	1.77	149.26	101.36	0.32
ORIOLA	1020	Q10	60.34	16.75	18.32		18.62	0.009970	2.51	25.69	33.22	0.80
ORIOLA	1020	Q100	151.86	16.75	19.30		19.60	0.004527	2.65	68.56	54.24	0.60
ORIOLA	1020	Q500	202.06	16.75	20.41		20.53	0.001164	1.81	145.35	95.49	0.33
ORIOLA	1025.*	Q10	60.34	16.77	18.41		18.67	0.007705	2.34	28.18	34.69	0.71
ORIOLA	1025.*	Q100	151.86	16.77	19.32		19.62	0.004583	2.69	68.39	54.28	0.60
ORIOLA	1025.*	Q500	202.06	16.77	20.41		20.54	0.001205	1.84	142.92	91.15	0.33
ORIOLA	1030.*	Q10	60.34	16.79	18.46		18.71	0.006907	2.29	29.33	35.27	0.68
ORIOLA	1030.*	Q100	151.86	16.79	19.34		19.65	0.004604	2.71	68.32	53.80	0.61
ORIOLA	1030.*	Q500	202.06	16.79	20.42		20.55	0.001248	1.87	140.38	86.90	0.34
ORIOLA	1035.*	Q10	60.34	16.81	18.51		18.74	0.006334	2.25	30.29	35.68	0.65
ORIOLA	1035.*	Q100	151.86	16.81	19.36		19.67	0.004613	2.73	68.38	53.65	0.61
ORIOLA	1035.*	Q500	202.06	16.81	20.42		20.55	0.001301	1.91	137.64	82.89	0.35
ORIOLA	1040	Q10	60.34	16.84	18.55		18.77	0.005879	2.22	31.16	35.98	0.63
ORIOLA	1040	Q100	151.86	16.84	19.39		19.69	0.004604	2.75	68.55	53.52	0.61
ORIOLA	1040	Q500	202.06	16.84	20.42		20.56	0.001353	1.95	135.09	78.14	0.35
ORIOLA	1045.*	Q10	60.34	16.85	18.60		18.80	0.005374	2.08	32.20	36.89	0.60
ORIOLA	1045.*	Q100	151.86	16.85	19.42		19.71	0.004376	2.64	69.42	53.93	0.59
ORIOLA	1045.*	Q500	202.06	16.85	20.43		20.57	0.001363	1.93	133.84	76.22	0.35

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1050.*	Q10	60.34	16.86	18.64		18.83	0.005072	1.96	33.05	37.63	0.58
ORIOLA	1050.*	Q100	151.86	16.86	19.45		19.74	0.004191	2.53	70.28	54.35	0.58
ORIOLA	1050.*	Q500	202.06	16.86	20.43		20.58	0.001364	1.89	133.25	75.79	0.35
ORIOLA	1055.*	Q10	60.34	16.86	18.68		18.86	0.004934	1.88	33.71	38.18	0.57
ORIOLA	1055.*	Q100	151.86	16.86	19.48		19.76	0.004063	2.44	71.01	54.78	0.56
ORIOLA	1055.*	Q500	202.06	16.86	20.44		20.58	0.001362	1.85	133.42	78.88	0.35
ORIOLA	1060	Q10	60.34	16.87	18.72		18.88	0.004931	1.81	34.26	38.59	0.56
ORIOLA	1060	Q100	151.86	16.87	19.51		19.78	0.003981	2.36	71.65	55.21	0.55
ORIOLA	1060	Q500	202.06	16.87	20.45		20.59	0.001366	1.82	135.53	92.21	0.35
ORIOLA	1065.*	Q10	60.34	16.88	18.74		18.91	0.005160	1.87	33.64	39.18	0.58
ORIOLA	1065.*	Q100	151.86	16.88	19.53		19.80	0.004091	2.41	71.39	55.10	0.56
ORIOLA	1065.*	Q500	202.06	16.88	20.45		20.60	0.001422	1.86	135.77	99.48	0.36
ORIOLA	1070.*	Q10	60.34	16.90	18.76		18.94	0.005300	1.92	33.45	40.13	0.59
ORIOLA	1070.*	Q100	151.86	16.90	19.55		19.82	0.004153	2.45	71.41	54.88	0.57
ORIOLA	1070.*	Q500	202.06	16.90	20.46		20.61	0.001481	1.90	137.68	113.42	0.36
ORIOLA	1075.*	Q10	60.34	16.91	18.78		18.97	0.005313	1.96	33.75	41.51	0.59
ORIOLA	1075.*	Q100	151.86	16.91	19.57		19.84	0.004166	2.47	71.70	54.59	0.57
ORIOLA	1075.*	Q500	202.06	16.91	20.47		20.62	0.001466	1.90	144.42	137.62	0.36
ORIOLA	1080	Q10	60.34	16.92	18.82		18.99	0.005039	1.95	34.78	42.01	0.58
ORIOLA	1080	Q100	151.86	16.92	19.60	19.16	19.86	0.004122	2.48	72.32	54.35	0.57
ORIOLA	1080	Q500	202.06	16.92	20.50		20.62	0.001332	1.82	158.64	153.12	0.34
ORIOLA	1085.*	Q10	60.34	16.93	18.79		19.05	0.007113	2.32	27.98	31.68	0.68
ORIOLA	1085.*	Q100	151.86	16.93	18.91	19.34	20.20	0.030980	5.18	32.17	35.07	1.45
ORIOLA	1085.*	Q500	202.06	16.93	20.48		20.64	0.001766	2.10	143.62	154.76	0.40
ORIOLA	1090.*	Q10	60.34	16.93	18.78	18.62	19.11	0.008743	2.60	24.39	25.20	0.76
ORIOLA	1090.*	Q100	151.86	16.93	19.05	19.50	20.35	0.026572	5.20	31.59	28.70	1.37
ORIOLA	1090.*	Q500	202.06	16.93	20.45	19.83	20.67	0.002488	2.49	125.74	153.80	0.47
ORIOLA	1095.*	Q10	60.34	16.94	18.54	18.68	19.22	0.022815	3.69	16.72	19.51	1.19
ORIOLA	1095.*	Q100	151.86	16.94	19.24	19.56	20.48	0.020968	5.07	32.49	25.52	1.25
ORIOLA	1095.*	Q500	202.06	16.94	19.50	19.89	21.02	0.021593	5.68	39.71	29.02	1.30
ORIOLA	1100	Q10	60.34	16.95	18.77	18.77	19.32	0.013670	3.33	18.82	18.29	0.96
ORIOLA	1100	Q100	151.86	16.95	19.76	19.76	20.59	0.010073	4.23	40.61	26.68	0.91
ORIOLA	1100	Q500	202.06	16.95	19.92	19.92	21.14	0.013564	5.15	45.18	28.88	1.06
ORIOLA	1105.*	Q10	60.34	16.96	18.98	18.84	19.39	0.009707	2.87	21.71	20.18	0.81
ORIOLA	1105.*	Q100	151.86	16.96	20.01	19.81	20.65	0.007276	3.68	47.44	36.05	0.77
ORIOLA	1105.*	Q500	202.06	16.96	21.18	20.56	21.26	0.000835	1.64	202.34	152.44	0.28
ORIOLA	1110.*	Q10	60.34	16.96	19.02	18.93	19.45	0.011611	2.91	21.00	20.47	0.87
ORIOLA	1110.*	Q100	151.86	16.96	20.09	19.82	20.69	0.007127	3.54	49.79	53.93	0.76
ORIOLA	1110.*	Q500	202.06	16.96	21.18		21.27	0.000956	1.69	192.22	152.17	0.30
ORIOLA	1115.*	Q10	60.34	16.96	19.07	19.02	19.53	0.014409	2.99	20.22	20.20	0.95
ORIOLA	1115.*	Q100	151.86	16.96	20.23	19.88	20.73	0.006225	3.25	56.59	76.97	0.71
ORIOLA	1115.*	Q500	202.06	16.96	21.18		21.28	0.001103	1.75	181.89	151.00	0.32
ORIOLA	1120	Q10	60.34	16.97	19.13	19.11	19.61	0.015685	3.08	19.59	19.57	0.98
ORIOLA	1120	Q100	151.86	16.97	20.26	19.96	20.76	0.006718	3.22	56.40	77.81	0.72
ORIOLA	1120	Q500	202.06	16.97	21.18		21.29	0.001249	1.78	172.58	145.50	0.33
ORIOLA	1125.*	Q10	60.34	16.98	19.20	19.18	19.69	0.015770	3.12	19.34	18.95	0.99
ORIOLA	1125.*	Q100	151.86	16.98	19.90	20.00	20.87	0.017446	4.38	35.69	28.52	1.11
ORIOLA	1125.*	Q500	202.06	16.98	21.16		21.30	0.001675	2.01	153.96	143.98	0.38
ORIOLA	1130.*	Q10	60.34	16.98	19.28	19.25	19.77	0.015446	3.13	19.29	18.45	0.98
ORIOLA	1130.*	Q100	151.86	16.98	20.02	20.15	20.96	0.016555	4.30	36.28	29.02	1.08
ORIOLA	1130.*	Q500	202.06	16.98	21.13	20.82	21.33	0.002356	2.31	133.67	142.17	0.45
ORIOLA	1135.*	Q10	60.34	16.99	19.35	19.31	19.85	0.014890	3.12	19.37	18.02	0.96
ORIOLA	1135.*	Q100	151.86	16.99	20.03	20.27	21.09	0.019997	4.55	33.79	27.00	1.18
ORIOLA	1135.*	Q500	202.06	16.99	20.34	20.88	21.56	0.018548	4.95	43.56	38.42	1.17
ORIOLA	1140	Q10	60.34	17.00	19.29	19.37	19.93	0.020299	3.54	17.06	16.40	1.11
ORIOLA	1140	Q100	151.86	17.00	19.94	20.40	21.29	0.029681	5.15	29.47	21.33	1.40
ORIOLA	1140	Q500	202.06	17.00	20.39	20.97	21.68	0.020195	5.07	42.07	36.77	1.21
ORIOLA	1145.*	Q10	60.34	17.01	19.22	19.47	20.12	0.029673	4.20	14.35	14.04	1.33
ORIOLA	1145.*	Q100	151.86	17.01	20.16	20.60	21.43	0.023240	5.01	30.76	25.00	1.26
ORIOLA	1145.*	Q500	202.06	17.01	20.63	21.12	21.78	0.015564	4.87	47.68	49.84	1.08
ORIOLA	1150.*	Q10	60.34	17.02	19.25	19.57	20.34	0.034874	4.61	13.08	12.45	1.44
ORIOLA	1150.*	Q100	151.86	17.02	20.48	20.82	21.55	0.015724	4.66	36.15	36.41	1.06
ORIOLA	1150.*	Q500	202.06	17.02	20.89	21.27	21.86	0.012203	4.65	56.05	67.44	0.96

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1155.*	Q10	60.34	17.04	19.39	19.71	20.52	0.033298	4.71	12.81	11.16	1.40
ORIOLA	1155.*	Q100	151.86	17.04	20.79	21.10	21.64	0.011271	4.33	44.53	49.27	0.90
ORIOLA	1155.*	Q500	202.06	17.04	21.13	21.42	21.94	0.009946	4.45	66.24	85.67	0.87
ORIOLA	1160	Q10	60.34	17.05	19.90	19.90	20.68	0.017023	3.91	15.42	9.92	1.00
ORIOLA	1160	Q100	151.86	17.05	21.27	21.27	21.72	0.005915	3.48	68.75	89.98	0.65
ORIOLA	1160	Q500	202.06	17.05	21.36	21.55	22.00	0.008491	4.25	77.34	102.02	0.79
ORIOLA	1165.*	Q10	60.34	17.06	20.28	19.90	20.76	0.008254	3.11	20.58	21.22	0.72
ORIOLA	1165.*	Q100	151.86	17.06	21.27		21.76	0.006324	3.61	64.25	75.41	0.67
ORIOLA	1165.*	Q500	202.06	17.06	21.46	21.60	22.04	0.007545	4.10	80.54	100.43	0.74
ORIOLA	1170.*	Q10	60.34	17.07	20.39	19.90	20.81	0.006719	2.92	22.86	25.04	0.65
ORIOLA	1170.*	Q100	151.86	17.07	21.35		21.79	0.005637	3.46	66.37	70.69	0.64
ORIOLA	1170.*	Q500	202.06	17.07	21.63	21.63	22.09	0.005780	3.72	91.17	108.50	0.66
ORIOLA	1175.*	Q10	60.34	17.07	20.46		20.84	0.005963	2.81	24.32	26.65	0.62
ORIOLA	1175.*	Q100	151.86	17.07	21.38		21.82	0.005544	3.45	65.48	65.33	0.63
ORIOLA	1175.*	Q500	202.06	17.07	21.60		22.15	0.006694	3.97	82.02	90.20	0.70
ORIOLA	1180	Q10	60.34	17.08	20.51		20.87	0.005492	2.74	25.37	27.54	0.59
ORIOLA	1180	Q100	151.86	17.08	21.41		21.85	0.005559	3.47	64.43	61.97	0.63
ORIOLA	1180	Q500	202.06	17.08	21.63		22.18	0.006661	3.98	79.76	79.77	0.70
ORIOLA	1185.*	Q10	60.34	17.11	20.52		20.91	0.006030	2.84	24.68	27.61	0.62
ORIOLA	1185.*	Q100	151.86	17.11	21.48		21.88	0.005091	3.34	68.01	64.40	0.60
ORIOLA	1185.*	Q500	202.06	17.11	21.82		22.22	0.004953	3.53	93.43	91.84	0.61
ORIOLA	1190.*	Q10	60.34	17.14	20.53	20.13	20.95	0.006664	2.95	24.03	27.75	0.64
ORIOLA	1190.*	Q100	151.86	17.14	21.54		21.91	0.004809	3.25	70.64	65.69	0.58
ORIOLA	1190.*	Q500	202.06	17.14	21.90		22.25	0.004435	3.35	97.57	89.04	0.57
ORIOLA	1195.*	Q10	60.34	17.17	20.55	20.39	20.99	0.007325	3.05	23.56	28.14	0.67
ORIOLA	1195.*	Q100	151.86	17.17	21.60		21.93	0.004631	3.17	72.73	66.63	0.57
ORIOLA	1195.*	Q500	202.06	17.17	21.98		22.28	0.003945	3.15	101.31	84.50	0.53
ORIOLA	1200	Q10	60.34	17.20	20.58	20.51	21.04	0.007984	3.14	23.29	28.79	0.69
ORIOLA	1200	Q100	151.86	17.20	21.65		21.96	0.004492	3.09	74.56	67.23	0.55
ORIOLA	1200	Q500	202.06	17.20	22.02		22.30	0.003781	3.06	102.45	81.15	0.52
ORIOLA	1205.*	Q10	60.34	17.23	20.77		21.08	0.005063	2.67	29.54	35.80	0.56
ORIOLA	1205.*	Q100	151.86	17.23	21.69		21.98	0.004084	2.99	77.60	68.87	0.53
ORIOLA	1205.*	Q500	202.06	17.23	22.05		22.32	0.003566	3.00	104.82	82.08	0.50
ORIOLA	1210.*	Q10	60.34	17.26	20.84		21.11	0.004343	2.52	31.97	38.19	0.52
ORIOLA	1210.*	Q100	151.86	17.26	21.73		22.00	0.003778	2.90	80.26	70.25	0.51
ORIOLA	1210.*	Q500	202.06	17.26	22.08		22.34	0.003371	2.93	107.23	82.98	0.49
ORIOLA	1215.*	Q10	60.34	17.29	20.89		21.13	0.003930	2.42	33.69	39.80	0.50
ORIOLA	1215.*	Q100	151.86	17.29	21.77		22.02	0.003532	2.82	82.68	71.43	0.49
ORIOLA	1215.*	Q500	202.06	17.29	22.11		22.35	0.003197	2.87	109.58	83.72	0.48
ORIOLA	1220	Q10	60.34	17.32	20.93		21.15	0.003614	2.34	35.21	41.14	0.47
ORIOLA	1220	Q100	151.86	17.32	21.80		22.04	0.003330	2.75	84.89	72.46	0.48
ORIOLA	1220	Q500	202.06	17.32	22.14		22.37	0.003042	2.81	111.84	84.34	0.47
ORIOLA	1225.*	Q10	60.34	17.35	20.94		21.17	0.003889	2.40	34.66	41.12	0.49
ORIOLA	1225.*	Q100	151.86	17.35	21.82		22.05	0.003364	2.75	85.15	72.69	0.48
ORIOLA	1225.*	Q500	202.06	17.35	22.16		22.39	0.003075	2.80	111.75	84.05	0.47
ORIOLA	1230.*	Q10	60.34	17.38	20.96		21.19	0.004132	2.44	34.42	41.30	0.50
ORIOLA	1230.*	Q100	151.86	17.38	21.85		22.07	0.003382	2.73	85.69	73.01	0.48
ORIOLA	1230.*	Q500	202.06	17.38	22.18		22.40	0.003092	2.78	112.03	83.87	0.47
ORIOLA	1235.*	Q10	60.34	17.41	20.98		21.22	0.004318	2.46	34.51	41.74	0.51
ORIOLA	1235.*	Q100	151.86	17.41	21.88		22.09	0.003381	2.69	86.48	73.38	0.47
ORIOLA	1235.*	Q500	202.06	17.41	22.21		22.42	0.003096	2.74	112.56	83.75	0.46
ORIOLA	1240	Q10	60.34	17.44	21.01		21.24	0.004439	2.45	34.88	42.35	0.51
ORIOLA	1240	Q100	151.86	17.44	21.91		22.11	0.003372	2.64	87.37	73.76	0.47
ORIOLA	1240	Q500	202.06	17.44	22.23		22.44	0.003095	2.70	113.21	83.69	0.45
ORIOLA	1245.*	Q10	60.34	17.48	21.04		21.26	0.004678	2.51	34.80	43.08	0.51
ORIOLA	1245.*	Q100	151.86	17.48	21.93		22.13	0.003454	2.65	86.96	73.16	0.47
ORIOLA	1245.*	Q500	202.06	17.48	22.25		22.45	0.003186	2.71	112.33	83.01	0.45
ORIOLA	1250.*	Q10	60.34	17.52	21.07		21.29	0.004821	2.52	35.21	44.02	0.51
ORIOLA	1250.*	Q100	151.86	17.52	21.95		22.14	0.003528	2.64	86.80	72.66	0.46
ORIOLA	1250.*	Q500	202.06	17.52	22.27		22.47	0.003276	2.71	111.70	82.40	0.45
ORIOLA	1255.*	Q10	60.34	17.55	21.11		21.32	0.004935	2.50	35.86	44.96	0.50
ORIOLA	1255.*	Q100	151.86	17.55	21.98		22.16	0.003599	2.60	86.82	72.25	0.45

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1255.*	Q500	202.06	17.55	22.29		22.49	0.003365	2.67	111.25	81.89	0.44
ORIOLA	1260	Q10	60.34	17.59	21.15		21.34	0.004972	2.43	36.85	46.02	0.48
ORIOLA	1260	Q100	151.86	17.59	22.00		22.18	0.003658	2.52	87.06	71.94	0.43
ORIOLA	1260	Q500	202.06	17.59	22.32		22.50	0.003455	2.60	110.94	81.42	0.43
ORIOLA	1265.*	Q10	60.34	17.64	21.17		21.36	0.004304	2.40	37.35	45.23	0.48
ORIOLA	1265.*	Q100	151.86	17.64	22.01		22.21	0.003570	2.64	86.09	70.80	0.45
ORIOLA	1265.*	Q500	202.06	17.64	22.32		22.53	0.003420	2.74	109.55	80.26	0.45
ORIOLA	1270.*	Q10	60.34	17.69	21.20		21.38	0.003603	2.31	38.48	44.66	0.46
ORIOLA	1270.*	Q100	151.86	17.69	22.02		22.23	0.003436	2.71	85.42	69.65	0.47
ORIOLA	1270.*	Q500	202.06	17.69	22.33		22.55	0.003349	2.83	108.42	79.07	0.47
ORIOLA	1275.*	Q10	60.34	17.75	21.23		21.40	0.002969	2.18	40.10	44.25	0.43
ORIOLA	1275.*	Q100	151.86	17.75	22.03		22.25	0.003264	2.73	85.16	68.57	0.47
ORIOLA	1275.*	Q500	202.06	17.75	22.34		22.57	0.003244	2.88	107.70	77.93	0.48
ORIOLA	1280	Q10	60.34	17.80	21.26		21.42	0.002450	2.05	42.00	43.84	0.40
ORIOLA	1280	Q100	151.86	17.80	22.04		22.26	0.003061	2.71	85.38	67.55	0.47
ORIOLA	1280	Q500	202.06	17.80	22.34		22.59	0.003112	2.90	107.37	76.82	0.48
ORIOLA	1285.*	Q10	60.34	17.85	21.27		21.43	0.002504	2.08	41.51	43.12	0.41
ORIOLA	1285.*	Q100	151.86	17.85	22.05		22.28	0.003134	2.76	83.99	66.16	0.48
ORIOLA	1285.*	Q500	202.06	17.85	22.35		22.60	0.003213	2.96	105.42	75.53	0.49
ORIOLA	1290.*	Q10	60.34	17.90	21.28		21.44	0.002557	2.10	41.11	42.53	0.42
ORIOLA	1290.*	Q100	151.86	17.90	22.06		22.30	0.003199	2.80	82.79	64.79	0.49
ORIOLA	1290.*	Q500	202.06	17.90	22.36		22.62	0.003302	3.02	103.77	74.30	0.50
ORIOLA	1295.*	Q10	60.34	17.95	21.29		21.46	0.002608	2.12	40.82	42.06	0.43
ORIOLA	1295.*	Q100	151.86	17.95	22.07		22.32	0.003244	2.83	81.89	63.50	0.50
ORIOLA	1295.*	Q500	202.06	17.95	22.37		22.64	0.003383	3.06	102.35	73.12	0.51
ORIOLA	1300	Q10	60.34	18.00	21.31		21.47	0.002662	2.13	40.59	41.67	0.43
ORIOLA	1300	Q100	151.86	18.00	22.09		22.33	0.003271	2.84	81.25	62.27	0.50
ORIOLA	1300	Q500	202.06	18.00	22.39		22.66	0.003451	3.09	101.22	72.01	0.52
ORIOLA	1305.*	Q10	60.34	18.13	21.31		21.49	0.003115	2.24	39.32	42.23	0.46
ORIOLA	1305.*	Q100	151.86	18.13	22.12		22.35	0.003392	2.84	81.92	64.12	0.51
ORIOLA	1305.*	Q500	202.06	18.13	22.43		22.68	0.003405	3.02	103.16	73.13	0.52
ORIOLA	1310.*	Q10	60.34	18.27	21.33		21.51	0.003565	2.32	38.51	43.04	0.49
ORIOLA	1310.*	Q100	151.86	18.27	22.15		22.37	0.003433	2.80	83.28	66.06	0.51
ORIOLA	1310.*	Q500	202.06	18.27	22.47		22.70	0.003312	2.93	105.35	73.84	0.51
ORIOLA	1315.*	Q10	60.34	18.40	21.35		21.53	0.003971	2.36	38.17	44.12	0.51
ORIOLA	1315.*	Q100	151.86	18.40	22.19		22.39	0.003385	2.71	85.17	67.56	0.50
ORIOLA	1315.*	Q500	202.06	18.40	22.50		22.72	0.003209	2.82	107.50	74.27	0.50
ORIOLA	1320	Q10	60.34	18.53	21.39		21.55	0.004191	2.33	38.68	45.71	0.52
ORIOLA	1320	Q100	151.86	18.53	22.23		22.41	0.003275	2.59	87.36	68.53	0.48
ORIOLA	1320	Q500	202.06	18.53	22.54		22.74	0.003097	2.69	109.64	74.49	0.48
ORIOLA	1325.*	Q10	60.34	18.68	21.43		21.57	0.003265	2.12	42.05	46.92	0.47
ORIOLA	1325.*	Q100	151.86	18.68	22.25		22.43	0.002988	2.54	88.71	67.18	0.48
ORIOLA	1325.*	Q500	202.06	18.68	22.55		22.75	0.002924	2.69	110.17	73.05	0.48
ORIOLA	1330.*	Q10	60.34	18.83	21.47		21.59	0.002658	1.96	44.98	47.56	0.44
ORIOLA	1330.*	Q100	151.86	18.83	22.27		22.44	0.002713	2.47	90.29	65.76	0.47
ORIOLA	1330.*	Q500	202.06	18.83	22.57		22.77	0.002748	2.65	110.96	71.63	0.48
ORIOLA	1335.*	Q10	60.34	18.97	21.50		21.60	0.002236	1.81	47.63	47.96	0.41
ORIOLA	1335.*	Q100	151.86	18.97	22.29		22.45	0.002458	2.37	92.08	64.35	0.45
ORIOLA	1335.*	Q500	202.06	18.97	22.59		22.78	0.002570	2.60	112.07	70.24	0.47
ORIOLA	1340	Q10	60.34	19.12	21.52		21.61	0.001930	1.69	50.04	48.24	0.38
ORIOLA	1340	Q100	151.86	19.12	22.31		22.47	0.002242	2.28	93.93	63.16	0.44
ORIOLA	1340	Q500	202.06	19.12	22.61		22.79	0.002398	2.52	113.37	68.85	0.46
ORIOLA	1345.*	Q10	60.34	19.16	21.52		21.63	0.001901	1.62	47.80	46.21	0.38
ORIOLA	1345.*	Q100	151.86	19.16	22.31		22.49	0.002297	2.26	89.90	61.20	0.45
ORIOLA	1345.*	Q500	202.06	19.16	22.60		22.81	0.002472	2.52	108.57	66.78	0.47
ORIOLA	1350.*	Q10	60.34	19.20	21.54		21.64	0.001755	1.48	47.77	43.92	0.36
ORIOLA	1350.*	Q100	151.86	19.20	22.31		22.50	0.002267	2.16	87.89	59.40	0.44
ORIOLA	1350.*	Q500	202.06	19.20	22.60		22.83	0.002469	2.43	105.88	65.14	0.47
ORIOLA	1355.*	Q10	60.34	19.24	21.56		21.65	0.001669	1.36	48.69	43.42	0.35
ORIOLA	1355.*	Q100	151.86	19.24	22.33		22.51	0.002171	2.04	87.83	57.96	0.43
ORIOLA	1355.*	Q500	202.06	19.24	22.62		22.84	0.002389	2.31	105.21	63.56	0.46
ORIOLA	1360	Q10	60.34	19.29	21.57		21.65	0.001686	1.28	49.61	44.15	0.35

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1360	Q100	151.86	19.29	22.35		22.52	0.002071	1.91	89.21	57.46	0.41
ORIOLA	1360	Q500	202.06	19.29	22.64		22.86	0.002262	2.17	106.50	62.28	0.44
ORIOLA	1365.*	Q10	60.34	19.51	21.57		21.67	0.002628	1.47	42.75	42.00	0.42
ORIOLA	1365.*	Q100	151.86	19.51	22.34		22.55	0.002811	2.10	80.30	55.70	0.47
ORIOLA	1365.*	Q500	202.06	19.51	22.63		22.88	0.002974	2.37	96.95	60.64	0.50
ORIOLA	1370.*	Q10	60.34	19.73	21.55		21.70	0.004416	1.73	36.01	39.75	0.53
ORIOLA	1370.*	Q100	151.86	19.73	22.32		22.58	0.003974	2.35	71.28	53.80	0.55
ORIOLA	1370.*	Q500	202.06	19.73	22.60		22.92	0.004039	2.61	87.31	58.92	0.57
ORIOLA	1375.*	Q10	60.34	19.95	21.53	21.36	21.75	0.008342	2.10	29.28	37.34	0.71
ORIOLA	1375.*	Q100	151.86	19.95	22.29		22.62	0.005799	2.65	62.28	51.37	0.66
ORIOLA	1375.*	Q500	202.06	19.95	22.57		22.97	0.005767	2.93	77.30	57.01	0.67
ORIOLA	1380	Q10	60.34	20.17	21.52	21.52	21.87	0.017196	2.62	23.26	35.07	0.99
ORIOLA	1380	Q100	151.86	20.17	22.24	22.13	22.70	0.009522	3.09	52.59	46.87	0.83
ORIOLA	1380	Q500	202.06	20.17	22.50	22.38	23.04	0.009104	3.39	66.05	54.52	0.83
ORIOLA	1385.*	Q10	60.34	20.18	21.67	21.59	21.95	0.013162	2.33	25.85	35.07	0.87
ORIOLA	1385.*	Q100	151.86	20.18	22.36		22.75	0.009516	2.78	55.13	49.76	0.80
ORIOLA	1385.*	Q500	202.06	20.18	22.68		23.10	0.007611	2.90	71.80	55.05	0.75
ORIOLA	1390.*	Q10	60.34	20.19	21.79		22.01	0.009102	2.07	29.11	35.80	0.73
ORIOLA	1390.*	Q100	151.86	20.19	22.42		22.80	0.010001	2.73	55.69	48.68	0.81
ORIOLA	1390.*	Q500	202.06	20.19	22.74		23.14	0.008761	2.79	72.35	55.25	0.78
ORIOLA	1395.*	Q10	60.34	20.20	21.87		22.06	0.007237	1.91	31.56	36.88	0.66
ORIOLA	1395.*	Q100	151.86	20.20	22.52		22.85	0.008091	2.55	59.67	49.33	0.74
ORIOLA	1395.*	Q500	202.06	20.20	22.81		23.18	0.007755	2.70	74.86	54.90	0.74
ORIOLA	1400	Q10	60.34	20.20	21.93		22.09	0.006168	1.80	33.58	38.20	0.61
ORIOLA	1400	Q100	151.86	20.20	22.60		22.89	0.006792	2.39	63.47	50.49	0.68
ORIOLA	1400	Q500	202.06	20.20	22.89		23.22	0.006687	2.57	78.74	55.73	0.69
ORIOLA	1405.*	Q10	60.34	20.24	21.95		22.13	0.006597	1.85	32.58	37.25	0.63
ORIOLA	1405.*	Q100	151.86	20.24	22.63		22.93	0.007243	2.45	61.98	49.92	0.70
ORIOLA	1405.*	Q500	202.06	20.24	22.91		23.26	0.007115	2.62	77.06	55.31	0.71
ORIOLA	1410.*	Q10	60.34	20.26	21.98		22.16	0.007056	1.90	31.69	36.54	0.65
ORIOLA	1410.*	Q100	151.86	20.26	22.66		22.97	0.007641	2.49	60.92	49.77	0.72
ORIOLA	1410.*	Q500	202.06	20.26	22.94		23.30	0.007472	2.66	75.96	55.36	0.72
ORIOLA	1415.*	Q10	60.34	20.30	22.01		22.20	0.007548	1.95	30.94	36.18	0.67
ORIOLA	1415.*	Q100	151.86	20.30	22.69		23.01	0.007948	2.51	60.42	50.21	0.73
ORIOLA	1415.*	Q500	202.06	20.30	22.98		23.34	0.007713	2.67	75.64	56.09	0.73
ORIOLA	1420	Q10	60.34	20.33	22.04		22.24	0.007980	1.98	30.51	36.40	0.69
ORIOLA	1420	Q100	151.86	20.33	22.74		23.05	0.008008	2.49	60.97	51.65	0.73
ORIOLA	1420	Q500	202.06	20.33	23.02		23.38	0.007046	2.67	76.15	56.74	0.71
ORIOLA	1425.*	Q10	60.34	20.37	22.07		22.29	0.008900	2.07	29.14	35.24	0.73
ORIOLA	1425.*	Q100	151.86	20.37	22.76		23.10	0.008883	2.60	58.39	50.11	0.77
ORIOLA	1425.*	Q500	202.06	20.37	23.03		23.43	0.008083	2.78	72.79	55.31	0.76
ORIOLA	1430.*	Q10	60.34	20.41	22.11		22.34	0.009720	2.15	28.05	34.23	0.76
ORIOLA	1430.*	Q100	151.86	20.41	22.79		23.16	0.009734	2.70	56.17	48.71	0.80
ORIOLA	1430.*	Q500	202.06	20.41	23.05		23.48	0.009191	2.90	69.83	53.97	0.80
ORIOLA	1435.*	Q10	60.34	20.46	22.15		22.40	0.010360	2.21	27.25	33.39	0.78
ORIOLA	1435.*	Q100	151.86	20.46	22.82		23.22	0.010519	2.80	54.32	47.48	0.83
ORIOLA	1435.*	Q500	202.06	20.46	23.08		23.54	0.010213	3.00	67.31	52.69	0.84
ORIOLA	1440	Q10	60.34	20.50	22.19		22.46	0.010823	2.26	26.67	32.69	0.80
ORIOLA	1440	Q100	151.86	20.50	22.86	22.72	23.28	0.011129	2.87	52.95	46.45	0.86
ORIOLA	1440	Q500	202.06	20.50	23.11	22.97	23.60	0.011044	3.10	65.28	51.53	0.87
ORIOLA	1445.*	Q10	60.34	20.54	22.24		22.52	0.011241	2.33	25.86	31.12	0.82
ORIOLA	1445.*	Q100	151.86	20.54	22.88	22.79	23.35	0.012520	3.04	49.97	43.85	0.91
ORIOLA	1445.*	Q500	202.06	20.54	23.12	23.06	23.68	0.013023	3.31	61.07	48.61	0.94
ORIOLA	1450.*	Q10	60.34	20.57	22.29		22.57	0.010817	2.33	25.88	30.25	0.80
ORIOLA	1450.*	Q100	151.86	20.57	22.94	22.85	23.42	0.012636	3.08	49.26	42.57	0.91
ORIOLA	1450.*	Q500	202.06	20.57	23.17	23.12	23.75	0.013330	3.37	59.92	47.13	0.95
ORIOLA	1455.*	Q10	60.34	20.61	22.36		22.62	0.009958	2.29	26.35	29.70	0.78
ORIOLA	1455.*	Q100	151.86	20.61	23.00	22.89	23.48	0.012182	3.07	49.48	41.85	0.90
ORIOLA	1455.*	Q500	202.06	20.61	23.24	23.18	23.82	0.012942	3.36	60.07	46.35	0.94
ORIOLA	1460	Q10	60.34	20.64	22.42		22.67	0.008765	2.22	27.14	29.01	0.73
ORIOLA	1460	Q100	151.86	20.64	23.09	22.94	23.54	0.011060	2.98	50.90	41.74	0.86
ORIOLA	1460	Q500	202.06	20.64	23.10	23.22	23.89	0.019028	3.93	51.46	41.99	1.13

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1465.*	Q10	60.34	20.74	22.42	22.31	22.74	0.012163	2.50	24.14	27.70	0.85
ORIOLA	1465.*	Q100	151.86	20.74	22.95	23.05	23.64	0.019274	3.68	41.32	37.60	1.12
ORIOLA	1465.*	Q500	202.06	20.74	23.23	23.33	23.98	0.018083	3.84	52.68	42.88	1.10
ORIOLA	1470.*	Q10	60.34	20.83	22.36	22.42	22.85	0.021407	3.09	19.52	24.89	1.11
ORIOLA	1470.*	Q100	151.86	20.83	23.08	23.15	23.73	0.018315	3.58	42.38	38.58	1.09
ORIOLA	1470.*	Q500	202.06	20.83	23.37	23.43	24.07	0.016933	3.72	54.32	44.09	1.07
ORIOLA	1475.*	Q10	60.34	20.93	22.49	22.54	22.95	0.020509	3.02	20.01	25.67	1.09
ORIOLA	1475.*	Q100	151.86	20.93	23.22	23.25	23.83	0.016974	3.45	43.97	39.98	1.05
ORIOLA	1475.*	Q500	202.06	20.93	23.50	23.53	24.16	0.016002	3.61	55.92	45.47	1.04
ORIOLA	1480	Q10	60.34	21.03	22.65	22.65	23.05	0.017630	2.80	21.53	27.54	1.01
ORIOLA	1480	Q100	151.86	21.03	23.35	23.35	23.91	0.015747	3.32	45.76	41.77	1.01
ORIOLA	1480	Q500	202.06	21.03	23.61	23.62	24.24	0.015307	3.51	57.50	47.16	1.02
ORIOLA	1485.*	Q10	60.34	21.08	22.82	22.71	23.13	0.012460	2.47	24.40	28.99	0.86
ORIOLA	1485.*	Q100	151.86	21.08	23.43	23.43	23.99	0.015407	3.31	45.83	41.21	1.00
ORIOLA	1485.*	Q500	202.06	21.08	23.67	23.71	24.33	0.016098	3.61	56.02	45.87	1.04
ORIOLA	1490.*	Q10	60.34	21.13	22.88	22.77	23.20	0.012335	2.49	24.23	28.25	0.86
ORIOLA	1490.*	Q100	151.86	21.13	23.51	23.49	24.07	0.015091	3.31	45.86	40.61	0.99
ORIOLA	1490.*	Q500	202.06	21.13	23.78	23.78	24.41	0.014760	3.51	57.50	45.83	1.00
ORIOLA	1495.*	Q10	60.34	21.18	22.94		23.26	0.011942	2.49	24.26	27.60	0.85
ORIOLA	1495.*	Q100	151.86	21.18	23.59	23.56	24.14	0.014616	3.30	46.08	40.07	0.98
ORIOLA	1495.*	Q500	202.06	21.18	23.85	23.84	24.48	0.014658	3.53	57.25	45.03	1.00
ORIOLA	1500	Q10	60.34	21.23	23.00		23.32	0.011405	2.47	24.41	27.00	0.83
ORIOLA	1500	Q100	151.86	21.23	23.66	23.62	24.21	0.014087	3.27	46.39	39.56	0.96
ORIOLA	1500	Q500	202.06	21.23	23.92	23.90	24.56	0.014414	3.53	57.20	44.30	0.99
ORIOLA	1505.*	Q10	60.34	21.28	23.16		23.37	0.006847	2.02	29.85	30.52	0.65
ORIOLA	1505.*	Q100	151.86	21.28	23.94		24.28	0.007322	2.58	58.95	44.13	0.71
ORIOLA	1505.*	Q500	202.06	21.28	24.23		24.63	0.006976	2.81	72.42	50.89	0.71
ORIOLA	1510.*	Q10	60.34	21.33	23.23		23.40	0.005361	1.86	32.40	31.20	0.58
ORIOLA	1510.*	Q100	151.86	21.33	24.00		24.31	0.005868	2.48	61.64	45.70	0.65
ORIOLA	1510.*	Q500	202.06	21.33	24.28		24.66	0.005794	2.76	75.46	54.82	0.66
ORIOLA	1515.*	Q10	60.34	21.37	23.26		23.43	0.004809	1.81	33.35	30.88	0.56
ORIOLA	1515.*	Q100	151.86	21.37	24.03		24.34	0.005277	2.50	62.51	49.69	0.62
ORIOLA	1515.*	Q500	202.06	21.37	24.31		24.69	0.005238	2.77	78.34	61.66	0.64
ORIOLA	1520	Q10	60.34	21.42	23.28		23.45	0.004758	1.84	32.81	29.16	0.55
ORIOLA	1520	Q100	151.86	21.42	24.05		24.37	0.005062	2.57	64.32	58.61	0.62
ORIOLA	1520	Q500	202.06	21.42	24.36		24.72	0.004624	2.74	84.21	66.69	0.60
ORIOLA	1525.*	Q10	60.34	21.47	23.31		23.48	0.004773	1.81	33.27	30.33	0.55
ORIOLA	1525.*	Q100	151.86	21.47	24.07		24.40	0.005243	2.55	62.47	51.88	0.62
ORIOLA	1525.*	Q500	202.06	21.47	24.37		24.75	0.005059	2.79	79.99	64.45	0.63
ORIOLA	1530.*	Q10	60.34	21.52	23.34		23.50	0.004668	1.78	33.99	31.50	0.55
ORIOLA	1530.*	Q100	151.86	21.52	24.12		24.43	0.005055	2.46	63.22	48.35	0.61
ORIOLA	1530.*	Q500	202.06	21.52	24.40		24.77	0.005134	2.75	78.30	59.45	0.63
ORIOLA	1535.*	Q10	60.34	21.57	23.37		23.53	0.004481	1.73	34.90	32.67	0.53
ORIOLA	1535.*	Q100	151.86	21.57	24.17		24.45	0.004767	2.36	64.98	46.54	0.59
ORIOLA	1535.*	Q500	202.06	21.57	24.45		24.80	0.004880	2.66	79.38	56.62	0.61
ORIOLA	1540	Q10	60.34	21.62	23.41		23.55	0.004220	1.67	36.03	33.83	0.52
ORIOLA	1540	Q100	151.86	21.62	24.22		24.48	0.004448	2.26	67.34	45.27	0.57
ORIOLA	1540	Q500	202.06	21.62	24.50		24.83	0.004554	2.55	81.53	55.26	0.59
ORIOLA	1545.*	Q10	60.34	21.73	23.40		23.59	0.006444	1.90	31.70	33.85	0.63
ORIOLA	1545.*	Q100	151.86	21.73	24.22		24.51	0.005545	2.40	63.35	43.43	0.62
ORIOLA	1545.*	Q500	202.06	21.73	24.50		24.86	0.005558	2.69	76.26	50.91	0.64
ORIOLA	1550.*	Q10	60.34	21.84	23.40	23.25	23.65	0.010468	2.21	27.27	33.51	0.78
ORIOLA	1550.*	Q100	151.86	21.84	24.22		24.56	0.007008	2.56	59.41	43.95	0.69
ORIOLA	1550.*	Q500	202.06	21.84	24.50		24.91	0.006793	2.83	71.97	46.89	0.70
ORIOLA	1555.*	Q10	60.34	21.95	23.32	23.40	23.77	0.024584	2.97	20.32	30.54	1.16
ORIOLA	1555.*	Q100	151.86	21.95	24.23		24.61	0.009022	2.74	55.42	44.48	0.78
ORIOLA	1555.*	Q500	202.06	21.95	24.50		24.96	0.008320	2.99	68.13	47.44	0.77
ORIOLA	1560	Q10	60.34	22.05	23.55	23.55	23.88	0.018324	2.56	23.54	35.27	1.00
ORIOLA	1560	Q100	151.86	22.05	24.24		24.68	0.011772	2.95	51.50	45.05	0.87
ORIOLA	1560	Q500	202.06	22.05	24.51		25.02	0.010290	3.17	64.32	48.02	0.84
ORIOLA	1565.*	Q10	60.34	22.10	23.70		23.96	0.011708	2.27	26.54	33.90	0.82
ORIOLA	1565.*	Q100	151.86	22.10	24.27	24.20	24.76	0.013527	3.08	49.37	44.28	0.93
ORIOLA	1565.*	Q500	202.06	22.10	24.54	24.45	25.09	0.012238	3.27	61.78	48.00	0.91

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1570.*	Q10	60.34	22.15	23.77		24.02	0.010152	2.22	27.24	32.42	0.77
ORIOLA	1570.*	Q100	151.86	22.15	24.33	24.27	24.83	0.013827	3.13	48.46	42.90	0.94
ORIOLA	1570.*	Q500	202.06	22.15	24.58	24.54	25.16	0.013740	3.37	59.87	47.08	0.96
ORIOLA	1575.*	Q10	60.34	22.20	23.83		24.07	0.009322	2.18	27.74	31.78	0.74
ORIOLA	1575.*	Q100	151.86	22.20	24.40	24.32	24.90	0.012920	3.12	48.60	40.97	0.92
ORIOLA	1575.*	Q500	202.06	22.20	24.64	24.59	25.24	0.013674	3.42	59.13	45.38	0.96
ORIOLA	1580	Q10	60.34	22.24	23.88		24.11	0.008767	2.14	28.22	31.65	0.72
ORIOLA	1580	Q100	151.86	22.24	24.49		24.96	0.011261	3.02	50.30	40.18	0.86
ORIOLA	1580	Q500	202.06	22.24	24.72	24.63	25.30	0.012530	3.39	59.63	43.28	0.92
ORIOLA	1585.*	Q10	60.34	22.32	23.91		24.17	0.010013	2.24	26.92	31.10	0.77
ORIOLA	1585.*	Q100	151.86	22.32	24.55	24.42	25.02	0.011786	3.05	49.79	40.56	0.88
ORIOLA	1585.*	Q500	202.06	22.32	24.80	24.70	25.37	0.012309	3.34	60.43	44.18	0.91
ORIOLA	1590.*	Q10	60.34	22.40	23.95		24.22	0.011337	2.34	25.77	30.60	0.81
ORIOLA	1590.*	Q100	151.86	22.40	24.60	24.50	25.08	0.012383	3.09	49.20	40.85	0.90
ORIOLA	1590.*	Q500	202.06	22.40	24.62	24.77	25.45	0.020770	4.03	50.19	41.20	1.16
ORIOLA	1595.*	Q10	60.34	22.49	23.99	23.89	24.29	0.012586	2.43	24.84	30.15	0.85
ORIOLA	1595.*	Q100	151.86	22.49	24.66	24.58	25.15	0.012970	3.12	48.64	41.06	0.92
ORIOLA	1595.*	Q500	202.06	22.49	24.70	24.84	25.52	0.020891	4.01	50.36	41.70	1.17
ORIOLA	1600	Q10	60.34	22.57	23.82	23.97	24.39	0.030498	3.36	17.95	26.08	1.29
ORIOLA	1600	Q100	151.86	22.57	24.40	24.65	25.31	0.029610	4.23	35.94	35.87	1.35
ORIOLA	1600	Q500	202.06	22.57	24.63	24.92	25.67	0.029147	4.52	44.72	39.78	1.36
ORIOLA	1605.*	Q10	60.34	22.70	23.97	24.11	24.55	0.030142	3.36	17.97	25.94	1.29
ORIOLA	1605.*	Q100	151.86	22.70	24.56	24.81	25.46	0.028926	4.19	36.25	36.07	1.33
ORIOLA	1605.*	Q500	202.06	22.70	24.79	25.07	25.82	0.028571	4.48	45.07	40.04	1.35
ORIOLA	1610.*	Q10	60.34	22.83	24.12	24.26	24.70	0.030197	3.36	17.96	25.76	1.28
ORIOLA	1610.*	Q100	151.86	22.83	24.71	24.95	25.60	0.028882	4.18	36.37	36.21	1.33
ORIOLA	1610.*	Q500	202.06	22.83	24.95	25.22	25.96	0.028470	4.46	45.27	40.24	1.34
ORIOLA	1615.*	Q10	60.34	22.96	24.27	24.41	24.84	0.030294	3.36	17.97	25.71	1.28
ORIOLA	1615.*	Q100	151.86	22.96	24.87	25.10	25.75	0.028951	4.16	36.46	36.31	1.33
ORIOLA	1615.*	Q500	202.06	22.96	25.10	25.37	26.11	0.028445	4.45	45.45	40.44	1.34
ORIOLA	1620	Q10	60.34	23.09	24.42	24.56	24.99	0.030548	3.36	17.97	25.72	1.28
ORIOLA	1620	Q100	151.86	23.09	25.02	25.25	25.90	0.029140	4.16	36.52	36.47	1.33
ORIOLA	1620	Q500	202.06	23.09	25.25	25.52	26.25	0.028455	4.43	45.65	40.73	1.33
ORIOLA	1625.*	Q10	60.34	23.22	24.59	24.72	25.15	0.028943	3.30	18.28	26.01	1.26
ORIOLA	1625.*	Q100	151.86	23.22	25.19	25.41	26.04	0.027515	4.08	37.21	36.81	1.30
ORIOLA	1625.*	Q500	202.06	23.22	25.43	25.68	26.39	0.026790	4.34	46.57	41.12	1.30
ORIOLA	1630.*	Q10	60.34	23.34	24.75	24.87	25.29	0.027565	3.24	18.60	26.01	1.22
ORIOLA	1630.*	Q100	151.86	23.34	25.37	25.56	26.18	0.025881	3.99	38.07	37.14	1.26
ORIOLA	1630.*	Q500	202.06	23.34	25.62	25.83	26.53	0.025020	4.23	47.77	41.54	1.26
ORIOLA	1635.*	Q10	60.34	23.47	24.91	25.01	25.43	0.026018	3.17	19.01	26.08	1.19
ORIOLA	1635.*	Q100	151.86	23.47	25.55	25.71	26.31	0.023584	3.85	39.42	37.54	1.20
ORIOLA	1635.*	Q500	202.06	23.47	25.81	25.98	26.65	0.022481	4.06	49.73	42.16	1.19
ORIOLA	1640	Q10	60.34	23.60	25.12	25.15	25.55	0.020285	2.89	20.87	27.17	1.05
ORIOLA	1640	Q100	151.86	23.60	25.80	25.85	26.43	0.018550	3.52	43.14	39.06	1.07
ORIOLA	1640	Q500	202.06	23.60	26.10	26.13	26.77	0.016597	3.63	55.73	44.39	1.03
ORIOLA	1645.*	Q10	60.34	23.72	25.22	25.26	25.66	0.020635	2.91	20.74	27.30	1.07
ORIOLA	1645.*	Q100	151.86	23.72	25.88	25.96	26.53	0.019251	3.57	42.53	38.99	1.09
ORIOLA	1645.*	Q500	202.06	23.72	26.15	26.23	26.87	0.018170	3.76	53.78	43.73	1.08
ORIOLA	1650.*	Q10	60.34	23.84	25.35	25.36	25.76	0.019537	2.85	21.19	27.83	1.04
ORIOLA	1650.*	Q100	151.86	23.84	26.05	26.06	26.62	0.016482	3.37	45.06	40.37	1.02
ORIOLA	1650.*	Q500	202.06	23.84	26.31	26.33	26.96	0.015997	3.59	56.35	44.95	1.02
ORIOLA	1655.*	Q10	60.34	23.96	25.44	25.48	25.87	0.020849	2.91	20.73	27.83	1.08
ORIOLA	1655.*	Q100	151.86	23.96	26.10	26.16	26.73	0.018364	3.50	43.35	40.02	1.07
ORIOLA	1655.*	Q500	202.06	23.96	26.36	26.43	27.07	0.017735	3.73	54.23	44.41	1.08
ORIOLA	1660	Q10	60.34	24.08	25.57	25.59	25.97	0.019002	2.80	21.55	28.80	1.03
ORIOLA	1660	Q100	151.86	24.08	26.26	26.26	26.82	0.016094	3.33	45.61	41.30	1.01
ORIOLA	1660	Q500	202.06	24.08	26.52	26.52	27.16	0.015353	3.53	57.25	45.71	1.01
ORIOLA	1665.*	Q10	60.34	24.21	25.70	25.70	26.07	0.018397	2.70	22.39	30.98	1.01
ORIOLA	1665.*	Q100	151.86	24.21	26.47	26.34	26.90	0.011521	2.90	52.36	45.60	0.86
ORIOLA	1665.*	Q500	202.06	24.21	26.77	26.60	27.24	0.010744	3.02	66.95	51.99	0.85
ORIOLA	1670.*	Q10	60.34	24.34	25.83	25.81	26.16	0.016986	2.54	23.79	34.03	0.97
ORIOLA	1670.*	Q100	151.86	24.34	26.54	26.42	26.96	0.011844	2.89	52.59	47.21	0.87

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1670.*	Q500	202.06	24.34	26.85		27.29	0.010539	2.96	68.30	54.13	0.84
ORIOLA	1675.*	Q10	60.34	24.47	25.95	25.91	26.24	0.015393	2.39	25.20	36.57	0.92
ORIOLA	1675.*	Q100	151.86	24.47	26.61	26.49	27.02	0.011734	2.84	53.49	48.97	0.87
ORIOLA	1675.*	Q500	202.06	24.47	26.92		27.35	0.010339	2.92	69.31	55.44	0.83
ORIOLA	1680	Q10	60.34	24.60	26.04	26.00	26.32	0.015599	2.36	25.58	38.41	0.92
ORIOLA	1680	Q100	151.86	24.60	26.69	26.56	27.08	0.011509	2.78	54.57	50.82	0.86
ORIOLA	1680	Q500	202.06	24.60	26.98		27.40	0.010185	2.89	70.03	56.33	0.83
ORIOLA	1685.*	Q10	60.34	24.62	26.22		26.39	0.007228	1.80	33.47	42.31	0.65
ORIOLA	1685.*	Q100	151.86	24.62	26.86		27.14	0.007303	2.35	64.66	55.32	0.69
ORIOLA	1685.*	Q500	202.06	24.62	27.14		27.46	0.007036	2.50	80.68	60.94	0.69
ORIOLA	1690.*	Q10	60.34	24.65	26.28		26.42	0.005563	1.64	36.72	43.86	0.57
ORIOLA	1690.*	Q100	151.86	24.65	26.94		27.18	0.005925	2.16	70.17	58.11	0.63
ORIOLA	1690.*	Q500	202.06	24.65	27.22		27.49	0.005802	2.32	87.21	64.16	0.63
ORIOLA	1695.*	Q10	60.34	24.68	26.33		26.45	0.004613	1.54	39.20	44.93	0.53
ORIOLA	1695.*	Q100	151.86	24.68	27.00		27.21	0.005117	2.04	74.44	60.40	0.59
ORIOLA	1695.*	Q500	202.06	24.68	27.28		27.52	0.005058	2.19	92.38	66.92	0.59
ORIOLA	1700	Q10	60.34	24.70	26.36		26.47	0.003970	1.46	41.27	45.67	0.49
ORIOLA	1700	Q100	151.86	24.70	27.04		27.23	0.004570	1.95	77.99	62.39	0.56
ORIOLA	1700	Q500	202.06	24.70	27.33		27.55	0.004549	2.09	96.73	69.40	0.56
ORIOLA	1705.*	Q10	60.34	24.73	26.38		26.49	0.004306	1.48	40.83	47.40	0.51
ORIOLA	1705.*	Q100	151.86	24.73	27.08		27.26	0.004468	1.89	80.44	66.47	0.55
ORIOLA	1705.*	Q500	202.06	24.73	27.37		27.57	0.004315	2.00	100.97	74.46	0.55
ORIOLA	1710.*	Q10	60.34	24.75	26.40		26.52	0.004784	1.51	39.88	48.40	0.53
ORIOLA	1710.*	Q100	151.86	24.75	27.10		27.28	0.004566	1.87	81.32	69.52	0.55
ORIOLA	1710.*	Q500	202.06	24.75	27.40		27.59	0.004295	1.96	103.14	78.39	0.55
ORIOLA	1715.*	Q10	60.34	24.78	26.42		26.55	0.005376	1.56	38.61	48.77	0.56
ORIOLA	1715.*	Q100	151.86	24.78	27.13		27.30	0.004790	1.87	81.13	71.74	0.56
ORIOLA	1715.*	Q500	202.06	24.78	27.42		27.62	0.004407	1.95	103.85	81.39	0.55
ORIOLA	1720	Q10	60.34	24.80	26.44		26.58	0.006035	1.62	37.24	48.62	0.59
ORIOLA	1720	Q100	151.86	24.80	27.15		27.33	0.005105	1.89	80.25	73.25	0.58
ORIOLA	1720	Q500	202.06	24.80	27.45		27.64	0.004616	1.95	103.49	83.59	0.56
ORIOLA	1725.*	Q10	60.34	24.84	26.47		26.61	0.006381	1.70	35.57	45.22	0.61
ORIOLA	1725.*	Q100	151.86	24.84	27.16		27.37	0.005887	2.01	75.69	70.44	0.62
ORIOLA	1725.*	Q500	202.06	24.84	27.45		27.67	0.005281	2.07	97.77	80.23	0.60
ORIOLA	1730.*	Q10	60.34	24.88	26.48		26.65	0.007624	1.84	32.71	41.89	0.67
ORIOLA	1730.*	Q100	151.86	24.88	27.17	26.85	27.41	0.006969	2.16	70.28	66.40	0.67
ORIOLA	1730.*	Q500	202.06	24.88	27.46	27.07	27.71	0.006231	2.23	90.70	75.29	0.65
ORIOLA	1735.*	Q10	60.34	24.91	26.49	26.32	26.71	0.010481	2.10	28.72	38.41	0.78
ORIOLA	1735.*	Q100	151.86	24.91	26.65	26.95	27.59	0.041739	4.30	35.31	45.47	1.56
ORIOLA	1735.*	Q500	202.06	24.91	26.78	27.17	27.97	0.046992	4.83	41.80	49.36	1.68
ORIOLA	1740	Q10	60.34	24.95	26.27	26.47	26.91	0.036066	3.55	17.01	26.14	1.40
ORIOLA	1740	Q100	151.86	24.95	26.67	27.07	27.92	0.055123	4.95	30.69	39.40	1.79
ORIOLA	1740	Q500	202.06	24.95	26.83	27.31	28.32	0.057498	5.41	37.36	43.32	1.86
ORIOLA	1745.*	Q10	60.34	24.96	26.39	26.62	27.11	0.034424	3.74	16.12	21.99	1.40
ORIOLA	1745.*	Q100	151.86	24.96	26.91	27.37	28.17	0.045027	4.97	30.57	33.44	1.66
ORIOLA	1745.*	Q500	202.06	24.96	27.11	27.63	28.58	0.045778	5.37	37.65	37.14	1.70
ORIOLA	1750.*	Q10	60.34	24.97	26.55	26.75	27.27	0.031231	3.78	15.96	19.91	1.35
ORIOLA	1750.*	Q100	151.86	24.97	27.16	27.63	28.37	0.036013	4.88	31.13	29.50	1.52
ORIOLA	1750.*	Q500	202.06	24.97	27.39	27.87	28.79	0.036687	5.27	39.38	45.27	1.56
ORIOLA	1755.*	Q10	60.34	24.98	26.72	26.89	27.42	0.026931	3.71	16.26	18.59	1.27
ORIOLA	1755.*	Q100	151.86	24.98	27.42	27.83	28.54	0.028531	4.71	33.24	40.72	1.37
ORIOLA	1755.*	Q500	202.06	24.98	27.60	28.07	28.97	0.032308	5.26	41.39	48.70	1.48
ORIOLA	1760	Q10	60.34	25.00	27.04	27.04	27.54	0.016034	3.15	19.13	18.75	1.00
ORIOLA	1760	Q100	151.86	25.00	27.94	27.94	28.68	0.014293	3.80	40.01	27.28	1.00
ORIOLA	1760	Q500	202.06	25.00	28.30	28.30	29.12	0.013776	4.01	50.33	30.67	1.00
ORIOLA	1765.*	Q10	60.34	25.05	27.24	27.08	27.62	0.010986	2.74	21.99	19.98	0.83
ORIOLA	1765.*	Q100	151.86	25.05	28.17	28.00	28.75	0.010690	3.40	44.65	28.81	0.87
ORIOLA	1765.*	Q500	202.06	25.05	29.06	28.36	29.21	0.002519	1.94	128.98	106.32	0.44
ORIOLA	1770.*	Q10	60.34	25.11	27.30	27.12	27.68	0.010606	2.73	22.14	19.75	0.82
ORIOLA	1770.*	Q100	151.86	25.11	28.21	28.06	28.81	0.010887	3.43	44.32	28.63	0.88
ORIOLA	1770.*	Q500	202.06	25.11	28.83	28.42	29.34	0.007389	3.17	63.70	34.56	0.75
ORIOLA	1775.*	Q10	60.34	25.17	27.36	27.16	27.73	0.010104	2.70	22.31	19.36	0.80

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1775.*	Q100	151.86	25.17	28.26	28.11	28.87	0.011063	3.45	43.96	28.34	0.89
ORIOLA	1775.*	Q500	202.06	25.17	28.85	28.48	29.39	0.007854	3.25	62.21	34.04	0.77
ORIOLA	1780	Q10	60.34	25.23	27.42	27.18	27.78	0.009372	2.67	22.59	18.83	0.78
ORIOLA	1780	Q100	151.86	25.23	28.31	28.17	28.93	0.011184	3.48	43.60	27.94	0.89
ORIOLA	1780	Q500	202.06	25.23	28.87	28.54	29.43	0.008350	3.33	60.71	33.45	0.79
ORIOLA	1785.*	Q10	60.34	25.26	27.53		27.83	0.007383	2.42	24.96	20.22	0.69
ORIOLA	1785.*	Q100	151.86	25.26	28.53		28.99	0.007830	3.02	50.22	30.47	0.75
ORIOLA	1785.*	Q500	202.06	25.26	29.01	28.52	29.48	0.006715	3.05	67.44	55.48	0.71
ORIOLA	1790.*	Q10	60.34	25.29	27.60		27.87	0.006346	2.27	26.63	21.22	0.65
ORIOLA	1790.*	Q100	151.86	25.29	28.63		29.03	0.006574	2.81	53.95	31.97	0.69
ORIOLA	1790.*	Q500	202.06	25.29	29.09		29.52	0.005934	2.89	69.81	36.76	0.67
ORIOLA	1795.*	Q10	60.34	25.32	27.66		27.90	0.005648	2.15	28.00	22.06	0.61
ORIOLA	1795.*	Q100	151.86	25.32	28.71		29.07	0.005793	2.67	56.88	33.21	0.65
ORIOLA	1795.*	Q500	202.06	25.32	29.16		29.55	0.005322	2.76	73.12	38.05	0.64
ORIOLA	1800	Q10	60.34	25.35	27.71		27.93	0.005143	2.07	29.19	22.81	0.58
ORIOLA	1800	Q100	151.86	25.35	28.77		29.10	0.005235	2.56	59.41	34.32	0.62
ORIOLA	1800	Q500	202.06	25.35	29.22		29.58	0.004859	2.66	76.06	39.24	0.61
ORIOLA	1805.*	Q10	60.34	25.39	27.74		27.95	0.005351	2.05	29.39	23.99	0.59
ORIOLA	1805.*	Q100	151.86	25.39	28.82		29.13	0.004859	2.45	62.00	36.19	0.60
ORIOLA	1805.*	Q500	202.06	25.39	29.28		29.61	0.004448	2.54	79.67	41.32	0.58
ORIOLA	1810.*	Q10	60.34	25.44	27.78		27.98	0.005268	2.00	30.16	25.36	0.59
ORIOLA	1810.*	Q100	151.86	25.44	28.88		29.15	0.004433	2.34	65.01	38.11	0.57
ORIOLA	1810.*	Q500	202.06	25.44	29.33		29.63	0.004031	2.42	83.62	43.41	0.56
ORIOLA	1815.*	Q10	60.34	25.48	27.82		28.01	0.004975	1.92	31.35	26.81	0.57
ORIOLA	1815.*	Q100	151.86	25.48	28.92		29.18	0.004012	2.23	68.25	40.00	0.54
ORIOLA	1815.*	Q500	202.06	25.48	29.38		29.65	0.003641	2.30	87.76	45.45	0.53
ORIOLA	1820	Q10	60.34	25.52	27.86		28.03	0.004538	1.83	32.93	28.35	0.54
ORIOLA	1820	Q100	151.86	25.52	28.97		29.20	0.003597	2.12	71.80	41.90	0.52
ORIOLA	1820	Q500	202.06	25.52	29.43		29.67	0.003270	2.19	92.18	47.49	0.50
ORIOLA	1825.*	Q10	60.34	25.57	27.88		28.06	0.004721	1.85	32.55	28.39	0.55
ORIOLA	1825.*	Q100	151.86	25.57	28.99		29.22	0.003686	2.13	71.38	42.05	0.52
ORIOLA	1825.*	Q500	202.06	25.57	29.44		29.69	0.003336	2.20	91.80	47.70	0.51
ORIOLA	1830.*	Q10	60.34	25.63	27.90		28.08	0.004891	1.87	32.25	28.45	0.56
ORIOLA	1830.*	Q100	151.86	25.63	29.00		29.24	0.003765	2.14	71.06	42.24	0.53
ORIOLA	1830.*	Q500	202.06	25.63	29.46		29.70	0.003393	2.21	91.52	47.92	0.51
ORIOLA	1835.*	Q10	60.34	25.68	27.93		28.11	0.005062	1.89	31.96	28.55	0.57
ORIOLA	1835.*	Q100	151.86	25.68	29.02		29.25	0.003843	2.14	70.80	42.48	0.53
ORIOLA	1835.*	Q500	202.06	25.68	29.47		29.72	0.003444	2.21	91.30	48.16	0.51
ORIOLA	1840	Q10	60.34	25.74	27.95		28.13	0.005210	1.90	31.76	28.70	0.58
ORIOLA	1840	Q100	151.86	25.74	29.04		29.27	0.003908	2.15	70.66	42.79	0.53
ORIOLA	1840	Q500	202.06	25.74	29.49		29.74	0.003482	2.22	91.20	48.40	0.52
ORIOLA	1845.*	Q10	60.34	25.81	27.98		28.16	0.005315	1.90	31.81	29.35	0.58
ORIOLA	1845.*	Q100	151.86	25.81	29.07		29.29	0.003824	2.12	71.68	43.77	0.53
ORIOLA	1845.*	Q500	202.06	25.81	29.51		29.76	0.003181	2.19	92.68	51.19	0.50
ORIOLA	1850.*	Q10	60.34	25.88	28.02		28.19	0.005092	1.84	32.78	30.74	0.57
ORIOLA	1850.*	Q100	151.86	25.88	29.10		29.31	0.003123	2.07	74.95	49.12	0.49
ORIOLA	1850.*	Q500	202.06	25.88	29.54		29.77	0.002566	2.17	98.48	57.01	0.46
ORIOLA	1855.*	Q10	60.34	25.95	28.06		28.21	0.004245	1.72	35.21	34.44	0.52
ORIOLA	1855.*	Q100	151.86	25.95	29.14		29.33	0.002301	1.99	84.54	55.55	0.43
ORIOLA	1855.*	Q500	202.06	25.95	29.59		29.79	0.001955	2.08	111.22	63.50	0.41
ORIOLA	1860	Q10	60.34	26.01	28.13		28.23	0.002314	1.51	44.34	43.63	0.40
ORIOLA	1860	Q100	151.86	26.01	29.21		29.34	0.001508	1.78	102.73	63.17	0.36
ORIOLA	1860	Q500	202.06	26.01	29.66		29.80	0.001331	1.87	132.40	69.73	0.35
ORIOLA	1865.*	Q10	60.34	26.05	28.14		28.25	0.002505	1.47	43.13	43.01	0.41
ORIOLA	1865.*	Q100	151.86	26.05	29.22		29.35	0.001567	1.75	100.66	64.17	0.36
ORIOLA	1865.*	Q500	202.06	26.05	29.66		29.81	0.001369	1.83	131.63	75.06	0.35
ORIOLA	1870.*	Q10	60.34	26.08	28.17		28.26	0.002393	1.36	44.73	42.42	0.40
ORIOLA	1870.*	Q100	151.86	26.08	29.23		29.36	0.001503	1.66	101.85	65.87	0.35
ORIOLA	1870.*	Q500	202.06	26.08	29.68		29.82	0.001310	1.75	134.87	82.05	0.34
ORIOLA	1875.*	Q10	60.34	26.11	28.19		28.27	0.002123	1.25	48.32	43.66	0.37
ORIOLA	1875.*	Q100	151.86	26.11	29.26		29.37	0.001349	1.53	107.29	70.51	0.33
ORIOLA	1875.*	Q500	202.06	26.11	29.70		29.82	0.001163	1.61	141.89	84.51	0.32

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1880	Q10	60.34	26.14	28.22		28.28	0.001804	1.15	52.38	47.58	0.35
ORIOLA	1880	Q100	151.86	26.14	29.28		29.38	0.001157	1.39	116.31	73.55	0.31
ORIOLA	1880	Q500	202.06	26.14	29.73		29.83	0.001002	1.47	151.64	85.88	0.29
ORIOLA	1885.*	Q10	60.34	26.16	28.23		28.29	0.001840	1.14	52.81	47.82	0.35
ORIOLA	1885.*	Q100	151.86	26.16	29.29		29.38	0.001138	1.37	116.88	73.54	0.30
ORIOLA	1885.*	Q500	202.06	26.16	29.73		29.84	0.000988	1.46	151.69	83.61	0.29
ORIOLA	1890.*	Q10	60.34	26.19	28.24		28.30	0.001787	1.13	53.38	48.07	0.34
ORIOLA	1890.*	Q100	151.86	26.19	29.30		29.39	0.001129	1.36	117.30	73.42	0.30
ORIOLA	1890.*	Q500	202.06	26.19	29.74		29.84	0.000979	1.44	151.80	82.15	0.29
ORIOLA	1895.*	Q10	60.34	26.21	28.25		28.31	0.001729	1.12	54.05	48.39	0.34
ORIOLA	1895.*	Q100	151.86	26.21	29.30		29.40	0.001131	1.35	117.56	73.14	0.30
ORIOLA	1895.*	Q500	202.06	26.21	29.75		29.85	0.000979	1.43	151.72	81.45	0.29
ORIOLA	1900	Q10	60.34	26.24	28.26		28.32	0.001617	1.10	54.81	48.54	0.33
ORIOLA	1900	Q100	151.86	26.24	29.31		29.40	0.001142	1.34	117.73	72.60	0.30
ORIOLA	1900	Q500	202.06	26.24	29.75		29.85	0.000986	1.42	151.51	80.72	0.29
ORIOLA	1905.*	Q10	60.34	26.27	28.25		28.34	0.002479	1.31	46.04	42.38	0.40
ORIOLA	1905.*	Q100	151.86	26.27	29.30		29.42	0.001702	1.51	102.21	65.85	0.36
ORIOLA	1905.*	Q500	202.06	26.27	29.74		29.86	0.001389	1.58	133.71	76.10	0.34
ORIOLA	1910.*	Q10	60.34	26.30	28.24		28.36	0.003503	1.53	39.45	37.25	0.47
ORIOLA	1910.*	Q100	151.86	26.30	29.29		29.44	0.002550	1.72	88.63	58.25	0.43
ORIOLA	1910.*	Q500	202.06	26.30	29.72		29.88	0.002012	1.77	116.95	71.86	0.40
ORIOLA	1915.*	Q10	60.34	26.34	28.23		28.39	0.005044	1.77	34.06	33.82	0.56
ORIOLA	1915.*	Q100	151.86	26.34	29.27		29.47	0.003567	1.96	77.53	51.09	0.51
ORIOLA	1915.*	Q500	202.06	26.34	29.71		29.91	0.002981	1.99	101.85	61.88	0.48
ORIOLA	1920	Q10	60.34	26.37	28.23		28.44	0.007287	2.06	29.33	30.59	0.67
ORIOLA	1920	Q100	151.86	26.37	29.25		29.50	0.004614	2.21	68.79	45.79	0.57
ORIOLA	1920	Q500	202.06	26.37	29.69		29.94	0.004064	2.24	90.16	53.40	0.55
ORIOLA	1925.*	Q10	60.34	26.40	28.24		28.49	0.008769	2.23	27.02	28.58	0.73
ORIOLA	1925.*	Q100	151.86	26.40	29.25		29.54	0.005625	2.40	63.19	42.91	0.63
ORIOLA	1925.*	Q500	202.06	26.40	29.68		29.98	0.004876	2.43	83.16	49.96	0.60
ORIOLA	1930.*	Q10	60.34	26.43	28.25	28.09	28.56	0.010788	2.45	24.66	26.53	0.81
ORIOLA	1930.*	Q100	151.86	26.43	29.23		29.59	0.007079	2.65	57.41	40.06	0.71
ORIOLA	1930.*	Q500	202.06	26.43	29.66		30.02	0.006010	2.66	75.84	46.34	0.66
ORIOLA	1935.*	Q10	60.34	26.46	28.10	28.19	28.64	0.022067	3.25	18.55	22.23	1.14
ORIOLA	1935.*	Q100	151.86	26.46	29.21		29.66	0.009233	2.96	51.31	36.87	0.80
ORIOLA	1935.*	Q500	202.06	26.46	29.63		30.08	0.007710	2.97	68.06	42.54	0.75
ORIOLA	1940	Q10	60.34	26.49	28.30	28.30	28.75	0.016716	2.98	20.27	22.47	1.00
ORIOLA	1940	Q100	151.86	26.49	29.16	29.10	29.76	0.013003	3.41	44.48	33.26	0.94
ORIOLA	1940	Q500	202.06	26.49	29.58	29.41	30.17	0.010614	3.40	59.45	38.43	0.87
ORIOLA	1945.*	Q10	60.34	26.56	28.52	28.33	28.82	0.010035	2.45	24.61	24.91	0.79
ORIOLA	1945.*	Q100	151.86	26.56	29.34		29.82	0.009852	3.07	49.47	35.25	0.83
ORIOLA	1945.*	Q500	202.06	26.56	29.69		30.22	0.009407	3.24	62.36	39.59	0.82
ORIOLA	1950.*	Q10	60.34	26.62	28.59		28.87	0.009351	2.38	25.33	25.41	0.76
ORIOLA	1950.*	Q100	151.86	26.62	29.42		29.87	0.009162	2.98	50.96	35.97	0.80
ORIOLA	1950.*	Q500	202.06	26.62	29.76		30.27	0.008825	3.15	64.05	40.35	0.80
ORIOLA	1955.*	Q10	60.34	26.69	28.65		28.92	0.008885	2.33	25.89	25.83	0.74
ORIOLA	1955.*	Q100	151.86	26.69	29.49		29.92	0.008689	2.91	52.10	36.56	0.78
ORIOLA	1955.*	Q500	202.06	26.69	29.83		30.32	0.008409	3.09	65.39	41.01	0.78
ORIOLA	1960	Q10	60.34	26.76	28.70		28.97	0.008552	2.29	26.33	26.19	0.73
ORIOLA	1960	Q100	151.86	26.76	29.55		29.97	0.008287	2.86	53.16	37.11	0.76
ORIOLA	1960	Q500	202.06	26.76	29.89		30.36	0.008070	3.03	66.59	41.62	0.77
ORIOLA	1965.*	Q10	60.34	26.82	28.76		29.01	0.007975	2.21	27.28	27.23	0.71
ORIOLA	1965.*	Q100	151.86	26.82	29.63		30.01	0.007357	2.71	56.03	38.78	0.72
ORIOLA	1965.*	Q500	202.06	26.82	29.98		30.40	0.007109	2.87	70.35	43.50	0.72
ORIOLA	1970.*	Q10	60.34	26.88	28.82		29.05	0.007531	2.14	28.14	28.23	0.69
ORIOLA	1970.*	Q100	151.86	26.88	29.70		30.05	0.006760	2.61	58.27	40.22	0.69
ORIOLA	1970.*	Q500	202.06	26.88	30.05		30.44	0.006368	2.76	73.28	45.55	0.69
ORIOLA	1975.*	Q10	60.34	26.94	28.87		29.09	0.007190	2.09	28.90	29.18	0.67
ORIOLA	1975.*	Q100	151.86	26.94	29.76		30.08	0.006282	2.52	60.36	41.62	0.67
ORIOLA	1975.*	Q500	202.06	26.94	30.11		30.47	0.005784	2.67	75.92	47.55	0.66
ORIOLA	1980	Q10	60.34	27.00	28.92		29.13	0.006976	2.05	29.50	30.09	0.66
ORIOLA	1980	Q100	151.86	27.00	29.81		30.11	0.005910	2.44	62.23	42.97	0.65
ORIOLA	1980	Q500	202.06	27.00	30.16		30.50	0.005345	2.59	78.28	49.31	0.63

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	1985.*	Q10	60.34	27.10	28.92	28.76	29.19	0.010248	2.30	26.19	29.81	0.78
ORIOLA	1985.*	Q100	151.86	27.10	29.83		30.15	0.006915	2.54	59.86	43.91	0.69
ORIOLA	1985.*	Q500	202.06	27.10	30.18		30.54	0.005970	2.66	76.29	50.26	0.66
ORIOLA	1990.*	Q10	60.34	27.19	28.81	28.89	29.29	0.023498	3.07	19.68	27.21	1.15
ORIOLA	1990.*	Q100	151.86	27.19	29.84		30.20	0.008144	2.64	57.50	44.91	0.75
ORIOLA	1990.*	Q500	202.06	27.19	30.19		30.57	0.006700	2.73	74.24	51.24	0.70
ORIOLA	1995.*	Q10	60.34	27.29	28.96	29.03	29.41	0.022960	2.96	20.37	29.15	1.13
ORIOLA	1995.*	Q100	151.86	27.29	29.87		30.25	0.009611	2.75	55.22	45.98	0.80
ORIOLA	1995.*	Q500	202.06	27.29	30.21		30.62	0.007545	2.81	72.18	52.28	0.74
ORIOLA	2000	Q10	60.34	27.38	29.17	29.17	29.52	0.018181	2.61	23.14	33.67	1.00
ORIOLA	2000	Q100	151.86	27.38	29.90		30.31	0.011281	2.86	53.16	47.17	0.86
ORIOLA	2000	Q500	202.06	27.38	30.24		30.66	0.008505	2.90	70.17	53.40	0.78
ORIOLA	2005.*	Q10	60.34	27.51	29.41		29.59	0.007769	1.88	32.02	40.15	0.67
ORIOLA	2005.*	Q100	151.86	27.51	30.06		30.37	0.007506	2.47	61.40	50.57	0.71
ORIOLA	2005.*	Q500	202.06	27.51	30.35		30.71	0.006477	2.65	77.01	55.84	0.69
ORIOLA	2010.*	Q10	60.34	27.65	29.48		29.63	0.006191	1.74	34.72	41.49	0.61
ORIOLA	2010.*	Q100	151.86	27.65	30.14		30.41	0.006050	2.30	66.01	52.69	0.65
ORIOLA	2010.*	Q500	202.06	27.65	30.43		30.74	0.005456	2.50	81.84	57.39	0.63
ORIOLA	2015.*	Q10	60.34	27.78	29.52		29.66	0.005258	1.64	36.83	42.55	0.56
ORIOLA	2015.*	Q100	151.86	27.78	30.20		30.44	0.005183	2.19	69.70	54.29	0.60
ORIOLA	2015.*	Q500	202.06	27.78	30.48		30.77	0.004783	2.39	85.86	58.62	0.60
ORIOLA	2020	Q10	60.34	27.92	29.56		29.69	0.004622	1.56	38.59	43.40	0.53
ORIOLA	2020	Q100	151.86	27.92	30.24		30.47	0.004596	2.09	72.84	55.62	0.57
ORIOLA	2020	Q500	202.06	27.92	30.53		30.80	0.004301	2.30	89.34	59.67	0.57
ORIOLA	2025.*	Q10	60.34	28.03	29.56	29.33	29.73	0.007728	1.85	32.63	42.02	0.67
ORIOLA	2025.*	Q100	151.86	28.03	30.24		30.51	0.006184	2.30	66.46	55.37	0.65
ORIOLA	2025.*	Q500	202.06	28.03	30.52		30.83	0.005513	2.48	82.81	59.58	0.63
ORIOLA	2030.*	Q10	60.34	28.13	29.41	29.48	29.81	0.025583	2.83	21.30	35.53	1.17
ORIOLA	2030.*	Q100	151.86	28.13	30.23		30.56	0.008498	2.53	60.28	55.16	0.75
ORIOLA	2030.*	Q500	202.06	28.13	30.52	30.24	30.88	0.007174	2.69	76.45	59.51	0.72
ORIOLA	2035.*	Q10	60.34	28.24	29.60	29.63	29.94	0.021793	2.58	23.41	39.91	1.07
ORIOLA	2035.*	Q100	151.86	28.24	30.23	30.14	30.63	0.011981	2.81	54.27	54.97	0.88
ORIOLA	2035.*	Q500	202.06	28.24	30.18	30.35	30.97	0.025443	3.96	51.26	54.12	1.27
ORIOLA	2040	Q10	60.34	28.35	29.68	29.77	30.09	0.030977	2.83	21.32	41.14	1.26
ORIOLA	2040	Q100	151.86	28.35	30.03	30.25	30.84	0.037901	3.99	38.07	51.61	1.48
ORIOLA	2040	Q500	202.06	28.35	30.17	30.47	31.20	0.038788	4.50	45.06	53.80	1.53
ORIOLA	2045.*	Q10	60.34	28.37	29.84	29.93	30.24	0.032187	2.82	21.41	42.74	1.27
ORIOLA	2045.*	Q100	151.86	28.37	30.20	30.42	31.03	0.034721	4.02	37.83	47.70	1.43
ORIOLA	2045.*	Q500	202.06	28.37	30.35	30.65	31.39	0.036072	4.52	44.93	50.22	1.49
ORIOLA	2050.*	Q10	60.34	28.39	30.00	30.08	30.40	0.031643	2.83	21.36	41.87	1.26
ORIOLA	2050.*	Q100	151.86	28.39	30.36	30.59	31.20	0.033991	4.05	37.57	46.21	1.42
ORIOLA	2050.*	Q500	202.06	28.39	30.51	30.82	31.58	0.035793	4.58	44.30	48.18	1.49
ORIOLA	2055.*	Q10	60.34	28.40	30.16	30.23	30.56	0.029614	2.79	21.61	40.91	1.23
ORIOLA	2055.*	Q100	151.86	28.40	30.51	30.75	31.38	0.035536	4.14	36.72	45.00	1.45
ORIOLA	2055.*	Q500	202.06	28.40	30.65	30.98	31.77	0.037444	4.70	43.23	46.71	1.52
ORIOLA	2060	Q10	60.34	28.42	30.27	30.39	30.74	0.038233	3.06	19.72	39.22	1.38
ORIOLA	2060	Q100	151.86	28.42	30.62	30.91	31.61	0.042596	4.41	34.45	43.58	1.57
ORIOLA	2060	Q500	202.06	28.42	30.78	31.15	32.01	0.042223	4.92	41.30	45.26	1.61
ORIOLA	2065.*	Q10	60.34	28.43	30.48	30.56	30.91	0.026254	2.89	20.87	33.96	1.18
ORIOLA	2065.*	Q100	151.86	28.43	30.86	31.12	31.81	0.036396	4.33	35.08	39.83	1.47
ORIOLA	2065.*	Q500	202.06	28.43	31.03	31.37	32.21	0.037472	4.82	41.94	41.43	1.53
ORIOLA	2070.*	Q10	60.34	28.44	30.61	30.61	31.02	0.017846	2.81	21.44	26.86	1.01
ORIOLA	2070.*	Q100	151.86	28.44	31.09	31.32	31.98	0.028280	4.18	36.30	35.63	1.32
ORIOLA	2070.*	Q500	202.06	28.44	31.27	31.57	32.39	0.031154	4.68	43.20	38.62	1.41
ORIOLA	2075.*	Q10	60.34	28.46	30.75		31.09	0.012243	2.61	23.15	24.20	0.85
ORIOLA	2075.*	Q100	151.86	28.46	31.27	31.41	32.10	0.021236	4.05	37.46	30.70	1.17
ORIOLA	2075.*	Q500	202.06	28.46	31.51	31.74	32.53	0.022567	4.47	45.16	33.46	1.23
ORIOLA	2080	Q10	60.34	28.47	30.82		31.15	0.010561	2.56	23.55	22.29	0.80
ORIOLA	2080	Q100	151.86	28.47	31.48	31.48	32.20	0.015115	3.76	40.39	28.32	1.01
ORIOLA	2080	Q500	202.06	28.47	31.83	31.83	32.64	0.014339	3.98	50.74	31.46	1.00
ORIOLA	2085.*	Q10	60.34	28.49	31.03		31.20	0.004408	1.83	33.06	27.50	0.53
ORIOLA	2085.*	Q100	151.86	28.49	32.00		32.28	0.004471	2.36	64.47	37.12	0.57

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	2085.*	Q500	202.06	28.49	32.39		32.72	0.004363	2.54	79.56	40.17	0.58
ORIOLA	2090.*	Q10	60.34	28.50	31.12		31.22	0.002373	1.42	42.50	32.75	0.40
ORIOLA	2090.*	Q100	151.86	28.50	32.12		32.31	0.002470	1.92	79.29	40.10	0.43
ORIOLA	2090.*	Q500	202.06	28.50	32.52		32.75	0.002549	2.11	95.83	42.90	0.45
ORIOLA	2095.*	Q10	60.34	28.51	31.17		31.24	0.001265	1.13	53.43	36.40	0.30
ORIOLA	2095.*	Q100	151.86	28.51	32.19		32.33	0.001529	1.62	93.73	42.62	0.35
ORIOLA	2095.*	Q500	202.06	28.51	32.60		32.76	0.001636	1.81	111.48	44.95	0.37
ORIOLA	2100	Q10	60.34	28.53	31.20		31.24	0.000702	0.92	65.45	38.86	0.23
ORIOLA	2100	Q100	151.86	28.53	32.23		32.33	0.000992	1.40	108.58	44.42	0.29
ORIOLA	2100	Q500	202.06	28.53	32.65		32.77	0.001078	1.59	127.38	47.84	0.30
ORIOLA	2105.*	Q10	60.34	28.55	31.20		31.25	0.000764	0.96	63.03	37.66	0.24
ORIOLA	2105.*	Q100	151.86	28.55	32.24		32.34	0.001020	1.45	105.72	46.52	0.29
ORIOLA	2105.*	Q500	202.06	28.55	32.65		32.78	0.001075	1.64	125.93	51.97	0.31
ORIOLA	2110.*	Q10	60.34	28.58	31.20		31.25	0.000838	0.99	61.09	37.32	0.25
ORIOLA	2110.*	Q100	151.86	28.58	32.24		32.35	0.000998	1.49	106.31	50.33	0.29
ORIOLA	2110.*	Q500	202.06	28.58	32.65		32.79	0.001050	1.68	128.13	55.62	0.31
ORIOLA	2115.*	Q10	60.34	28.60	31.21		31.26	0.000791	1.01	61.30	40.80	0.24
ORIOLA	2115.*	Q100	151.86	28.60	32.25		32.35	0.000939	1.50	110.47	53.77	0.29
ORIOLA	2115.*	Q500	202.06	28.60	32.66		32.79	0.000983	1.68	133.91	58.95	0.30
ORIOLA	2120	Q10	60.34	28.62	31.21		31.26	0.000698	1.00	65.03	44.21	0.23
ORIOLA	2120	Q100	151.86	28.62	32.26		32.36	0.000835	1.46	118.10	56.96	0.27
ORIOLA	2120	Q500	202.06	28.62	32.68		32.80	0.000875	1.64	143.09	62.07	0.29
ORIOLA	2125.*	Q10	60.34	28.68	31.21		31.27	0.000757	1.03	63.34	43.99	0.24
ORIOLA	2125.*	Q100	151.86	28.68	32.26		32.36	0.000879	1.49	116.34	57.02	0.28
ORIOLA	2125.*	Q500	202.06	28.68	32.68		32.81	0.000914	1.66	141.39	62.24	0.29
ORIOLA	2130.*	Q10	60.34	28.74	31.22		31.27	0.000820	1.06	61.71	43.79	0.25
ORIOLA	2130.*	Q100	151.86	28.74	32.27		32.37	0.000925	1.52	114.67	57.09	0.29
ORIOLA	2130.*	Q500	202.06	28.74	32.69		32.81	0.000955	1.69	139.78	62.43	0.30
ORIOLA	2135.*	Q10	60.34	28.80	31.22		31.27	0.000890	1.09	60.13	43.60	0.26
ORIOLA	2135.*	Q100	151.86	28.80	32.27		32.38	0.000974	1.55	113.06	57.19	0.29
ORIOLA	2135.*	Q500	202.06	28.80	32.69		32.82	0.000997	1.71	138.25	62.66	0.30
ORIOLA	2140	Q10	60.34	28.86	31.22		31.28	0.000964	1.12	58.62	43.43	0.27
ORIOLA	2140	Q100	151.86	28.86	32.27		32.38	0.001024	1.57	111.53	57.31	0.30
ORIOLA	2140	Q500	202.06	28.86	32.69		32.82	0.001040	1.74	136.82	62.90	0.31
ORIOLA	2145.*	Q10	60.34	28.94	31.23		31.29	0.001049	1.11	57.81	44.72	0.28
ORIOLA	2145.*	Q100	151.86	28.94	32.28		32.39	0.001022	1.53	112.75	59.46	0.30
ORIOLA	2145.*	Q500	202.06	28.94	32.70		32.83	0.001018	1.68	139.14	65.39	0.30
ORIOLA	2150.*	Q10	60.34	29.02	31.23		31.29	0.001174	1.11	56.59	45.78	0.29
ORIOLA	2150.*	Q100	151.86	29.02	32.29		32.39	0.001039	1.49	113.34	61.54	0.30
ORIOLA	2150.*	Q500	202.06	29.02	32.71		32.83	0.001015	1.63	140.82	67.89	0.30
ORIOLA	2155.*	Q10	60.34	29.10	31.24		31.30	0.001354	1.12	55.03	46.35	0.31
ORIOLA	2155.*	Q100	151.86	29.10	32.29		32.40	0.001077	1.46	113.29	63.52	0.30
ORIOLA	2155.*	Q500	202.06	29.10	32.72		32.84	0.001028	1.59	141.81	70.39	0.30
ORIOLA	2160	Q10	60.34	29.18	31.24		31.31	0.001611	1.13	53.33	46.15	0.33
ORIOLA	2160	Q100	151.86	29.18	32.30		32.40	0.001135	1.45	112.67	65.42	0.31
ORIOLA	2160	Q500	202.06	29.18	32.73		32.84	0.001056	1.56	142.24	72.93	0.30
ORIOLA	2165.*	Q10	60.34	29.27	31.25		31.32	0.001790	1.14	52.92	46.97	0.34
ORIOLA	2165.*	Q100	151.86	29.27	32.31		32.41	0.001161	1.43	112.43	65.04	0.31
ORIOLA	2165.*	Q500	202.06	29.27	32.74		32.85	0.001072	1.54	141.68	72.08	0.30
ORIOLA	2170.*	Q10	60.34	29.35	31.26		31.32	0.001940	1.15	52.24	48.14	0.35
ORIOLA	2170.*	Q100	151.86	29.35	32.32		32.41	0.001196	1.41	112.30	65.12	0.31
ORIOLA	2170.*	Q500	202.06	29.35	32.74		32.86	0.001091	1.52	141.50	71.79	0.31
ORIOLA	2175.*	Q10	60.34	29.43	31.27		31.34	0.002138	1.18	51.29	49.44	0.37
ORIOLA	2175.*	Q100	151.86	29.43	32.32		32.42	0.001241	1.40	112.18	65.52	0.31
ORIOLA	2175.*	Q500	202.06	29.43	32.75		32.86	0.001115	1.50	141.48	71.86	0.31
ORIOLA	2180	Q10	60.34	29.51	31.27		31.35	0.002406	1.21	50.05	50.77	0.39
ORIOLA	2180	Q100	151.86	29.51	32.33		32.43	0.001299	1.39	111.94	66.14	0.32
ORIOLA	2180	Q500	202.06	29.51	32.76		32.87	0.001146	1.49	141.43	72.19	0.31
ORIOLA	2185.*	Q10	60.34	29.60	31.28		31.37	0.003106	1.33	45.28	47.98	0.44
ORIOLA	2185.*	Q100	151.86	29.60	32.33		32.44	0.001582	1.48	104.74	65.41	0.35
ORIOLA	2185.*	Q500	202.06	29.60	32.75		32.88	0.001350	1.57	134.06	72.23	0.33
ORIOLA	2190.*	Q10	60.34	29.68	31.28		31.39	0.003986	1.47	40.93	45.00	0.49

HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	2190.*	Q100	151.86	29.68	32.33		32.45	0.001965	1.58	97.61	64.74	0.38
ORIOLA	2190.*	Q500	202.06	29.68	32.75		32.89	0.001610	1.66	126.85	72.54	0.36
ORIOLA	2195.*	Q10	60.34	29.76	31.29		31.42	0.004982	1.63	37.11	41.64	0.55
ORIOLA	2195.*	Q100	151.86	29.76	32.32		32.47	0.002433	1.71	90.58	64.04	0.42
ORIOLA	2195.*	Q500	202.06	29.76	32.75		32.90	0.001950	1.76	119.82	73.22	0.39
ORIOLA	2200	Q10	60.34	29.85	31.29		31.46	0.006114	1.78	33.86	38.60	0.61
ORIOLA	2200	Q100	151.86	29.85	32.32		32.49	0.003041	1.84	83.70	63.38	0.47
ORIOLA	2200	Q500	202.06	29.85	32.74		32.92	0.002337	1.88	113.03	73.71	0.43
ORIOLA	2205.*	Q10	60.34	29.88	31.28	31.12	31.52	0.009808	2.15	28.11	34.50	0.76
ORIOLA	2205.*	Q100	151.86	29.88	32.30	31.76	32.52	0.004046	2.10	74.84	61.92	0.54
ORIOLA	2205.*	Q500	202.06	29.88	32.73		32.94	0.002957	2.09	104.22	73.91	0.48
ORIOLA	2210.*	Q10	60.34	29.91	31.12	31.25	31.66	0.029286	3.25	18.56	27.74	1.27
ORIOLA	2210.*	Q100	151.86	29.91	31.59	31.92	32.63	0.037102	4.54	33.47	36.20	1.51
ORIOLA	2210.*	Q500	202.06	29.91	32.72	32.19	32.97	0.003622	2.33	97.72	75.33	0.53
ORIOLA	2215.*	Q10	60.34	29.94	31.24	31.39	31.82	0.030807	3.37	17.89	26.23	1.30
ORIOLA	2215.*	Q100	151.86	29.94	31.70	32.04	32.86	0.039417	4.78	32.00	38.20	1.56
ORIOLA	2215.*	Q500	202.06	29.94	31.89	32.39	33.27	0.037660	5.26	39.97	47.27	1.57
ORIOLA	2220	Q10	60.34	29.98	31.41	31.55	31.97	0.028563	3.33	18.13	25.86	1.26
ORIOLA	2220	Q100	151.86	29.98	31.81	32.25	33.09	0.037404	5.09	32.32	45.47	1.55
ORIOLA	2220	Q500	202.06	29.98	31.98	32.45	33.50	0.037848	5.64	41.47	64.02	1.60
ORIOLA	2225.*	Q10	60.34	29.98	31.52	31.66	32.12	0.026870	3.43	17.61	22.68	1.24
ORIOLA	2225.*	Q100	151.86	29.98	32.01	32.49	33.27	0.033630	5.03	31.96	39.87	1.49
ORIOLA	2225.*	Q500	202.06	29.98	32.20	32.70	33.68	0.033191	5.53	40.53	48.36	1.51
ORIOLA	2230.*	Q10	60.34	29.99	31.63	31.77	32.27	0.025870	3.56	16.96	19.98	1.23
ORIOLA	2230.*	Q100	151.86	29.99	32.21	32.73	33.43	0.029381	4.92	32.29	36.08	1.40
ORIOLA	2230.*	Q500	202.06	29.99	32.44	32.94	33.84	0.028538	5.37	41.29	44.62	1.42
ORIOLA	2235.*	Q10	60.34	29.99	31.74	31.87	32.40	0.023478	3.60	16.75	17.90	1.19
ORIOLA	2235.*	Q100	151.86	29.99	32.46	32.85	33.57	0.023093	4.69	33.87	34.14	1.26
ORIOLA	2235.*	Q500	202.06	29.99	32.71	33.21	33.98	0.022747	5.11	43.49	42.73	1.28
ORIOLA	2240	Q10	60.34	30.00	31.96	31.96	32.50	0.016010	3.27	18.44	16.91	1.00
ORIOLA	2240	Q100	151.86	30.00	32.84	33.03	33.68	0.014362	4.13	39.49	36.31	1.02
ORIOLA	2240	Q500	202.06	30.00	33.07	33.49	34.10	0.015586	4.63	49.05	44.53	1.08
ORIOLA	2245.*	Q10	60.34	30.03	32.17	32.01	32.58	0.010991	2.84	21.24	18.21	0.84
ORIOLA	2245.*	Q100	151.86	30.03	33.05	33.05	33.76	0.011697	3.76	42.06	35.79	0.92
ORIOLA	2245.*	Q500	202.06	30.03	33.27	33.63	34.18	0.013366	4.31	51.04	44.47	1.00
ORIOLA	2250.*	Q10	60.34	30.06	32.26		32.64	0.009573	2.71	22.30	18.53	0.79
ORIOLA	2250.*	Q100	151.86	30.06	33.12	33.02	33.82	0.012075	3.70	41.02	26.86	0.93
ORIOLA	2250.*	Q500	202.06	30.06	33.48	33.48	34.26	0.011013	3.95	53.97	44.16	0.91
ORIOLA	2255.*	Q10	60.34	30.10	32.36		32.69	0.007900	2.54	23.80	18.85	0.72
ORIOLA	2255.*	Q100	151.86	30.10	33.31		33.88	0.009126	3.34	45.49	26.57	0.81
ORIOLA	2255.*	Q500	202.06	30.10	33.53	33.42	34.31	0.011610	3.93	51.71	34.78	0.93
ORIOLA	2260	Q10	60.34	30.13	32.44		32.72	0.006411	2.37	25.47	19.04	0.65
ORIOLA	2260	Q100	151.86	30.13	33.42		33.93	0.007755	3.15	48.18	27.10	0.75
ORIOLA	2260	Q500	202.06	30.13	33.75		34.38	0.008648	3.52	57.47	29.77	0.81
ORIOLA	2265.*	Q10	60.34	30.21	32.53		32.76	0.004797	2.11	28.59	20.57	0.57
ORIOLA	2265.*	Q100	151.86	30.21	33.57		33.97	0.005595	2.80	54.20	28.59	0.65
ORIOLA	2265.*	Q500	202.06	30.21	33.94		34.43	0.006066	3.10	65.23	31.44	0.69
ORIOLA	2270.*	Q10	60.34	30.28	32.59		32.78	0.003912	1.94	31.04	21.76	0.52
ORIOLA	2270.*	Q100	151.86	30.28	33.66		34.00	0.004524	2.59	58.55	29.64	0.59
ORIOLA	2270.*	Q500	202.06	30.28	34.04		34.46	0.004886	2.87	70.46	32.48	0.62
ORIOLA	2275.*	Q10	60.34	30.36	32.64		32.80	0.003323	1.82	33.15	22.74	0.48
ORIOLA	2275.*	Q100	151.86	30.36	33.72		34.03	0.003845	2.44	62.18	30.52	0.55
ORIOLA	2275.*	Q500	202.06	30.36	34.12		34.49	0.004146	2.70	74.77	33.33	0.58
ORIOLA	2280	Q10	60.34	30.43	32.67		32.82	0.002865	1.72	35.15	23.54	0.45
ORIOLA	2280	Q100	151.86	30.43	33.78		34.05	0.003357	2.32	65.42	31.28	0.51
ORIOLA	2280	Q500	202.06	30.43	34.18		34.51	0.003626	2.57	78.56	34.10	0.54
ORIOLA	2285.*	Q10	60.34	30.47	32.67		32.84	0.003282	1.81	33.25	22.68	0.48
ORIOLA	2285.*	Q100	151.86	30.47	33.77		34.08	0.003771	2.44	62.36	30.26	0.54
ORIOLA	2285.*	Q500	202.06	30.47	34.17		34.54	0.004057	2.69	75.01	33.01	0.57
ORIOLA	2290.*	Q10	60.34	30.52	32.68		32.87	0.003784	1.92	31.38	21.81	0.51
ORIOLA	2290.*	Q100	151.86	30.52	33.77		34.11	0.004264	2.56	59.30	29.22	0.57
ORIOLA	2290.*	Q500	202.06	30.52	34.17		34.58	0.004569	2.83	71.44	31.91	0.60

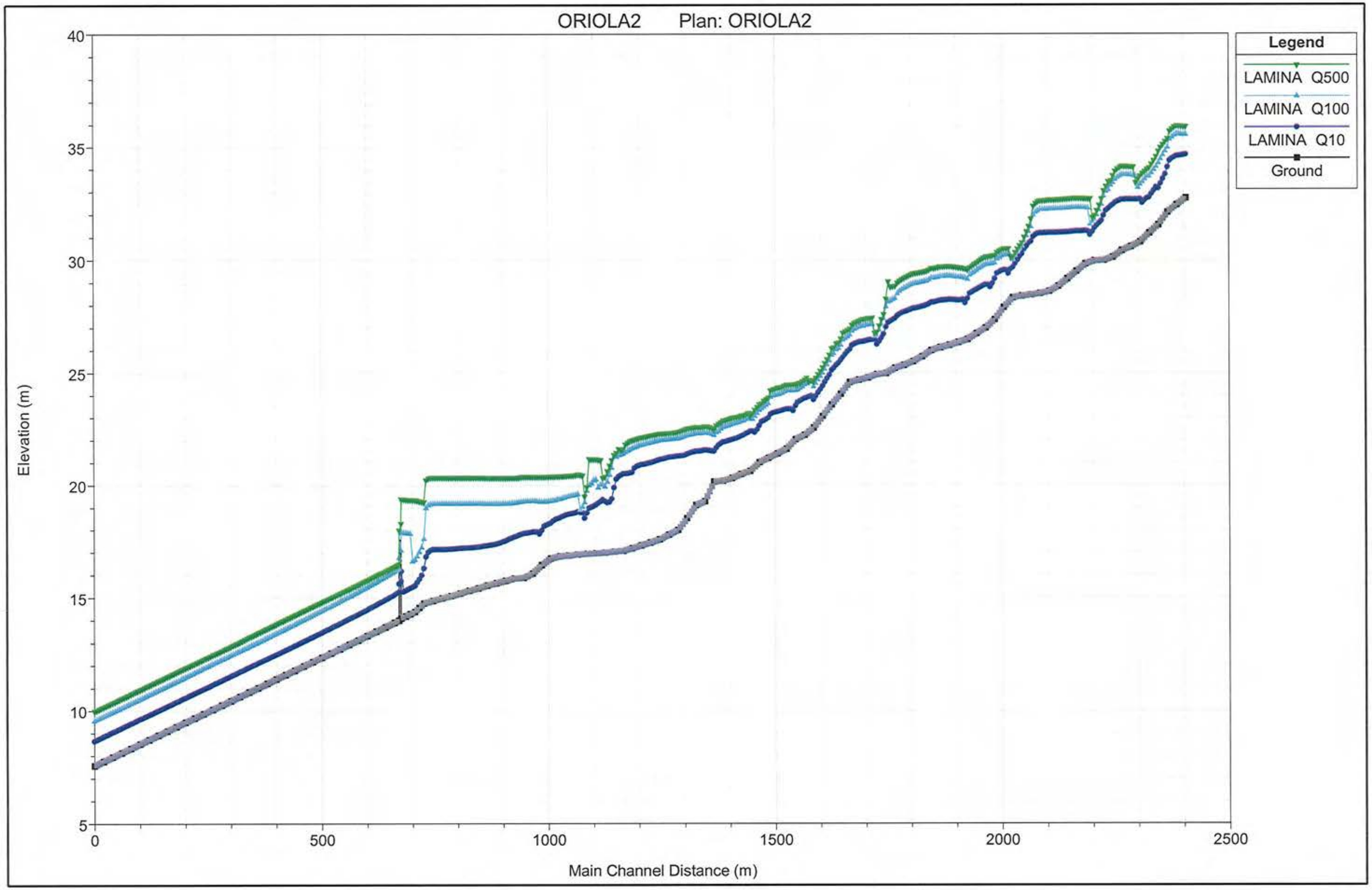
HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	2295.*	Q10	60.34	30.56	32.68		32.89	0.004380	2.04	29.57	20.95	0.55
ORIOLA	2295.*	Q100	151.86	30.56	33.77		34.14	0.004847	2.70	56.28	28.18	0.61
ORIOLA	2295.*	Q500	202.06	30.56	34.16		34.61	0.005174	2.98	67.90	30.80	0.64
ORIOLA	2300	Q10	60.34	30.60	32.69		32.92	0.005091	2.17	27.81	20.08	0.59
ORIOLA	2300	Q100	151.86	30.60	33.76		34.18	0.005545	2.85	53.28	27.13	0.65
ORIOLA	2300	Q500	202.06	30.60	34.15		34.66	0.005901	3.14	64.36	29.68	0.68
ORIOLA	2305.*	Q10	60.34	30.65	32.68		32.97	0.006152	2.35	25.69	18.91	0.64
ORIOLA	2305.*	Q100	151.86	30.65	33.75		34.23	0.006682	3.07	49.44	25.81	0.71
ORIOLA	2305.*	Q500	202.06	30.65	34.13	33.65	34.71	0.007105	3.38	59.82	28.35	0.74
ORIOLA	2310.*	Q10	60.34	30.70	32.68		33.01	0.007454	2.54	23.71	17.82	0.70
ORIOLA	2310.*	Q100	151.86	30.70	33.73	33.36	34.29	0.008109	3.32	45.71	24.45	0.78
ORIOLA	2310.*	Q500	202.06	30.70	33.44	33.77	34.81	0.022099	5.20	38.84	22.49	1.26
ORIOLA	2315.*	Q10	60.34	30.75	32.68		33.07	0.009045	2.76	21.88	16.80	0.77
ORIOLA	2315.*	Q100	151.86	30.75	33.21	33.47	34.39	0.021344	4.81	31.56	19.96	1.22
ORIOLA	2315.*	Q500	202.06	30.75	33.58	33.89	34.93	0.020956	5.14	39.32	22.20	1.23
ORIOLA	2320	Q10	60.34	30.80	32.69	32.52	33.14	0.010985	2.99	20.19	15.83	0.84
ORIOLA	2320	Q100	151.86	30.80	33.35	33.58	34.50	0.020101	4.74	32.05	19.75	1.19
ORIOLA	2320	Q500	202.06	30.80	33.74	34.01	35.03	0.019587	5.04	40.07	22.01	1.19
ORIOLA	2325.*	Q10	60.34	30.90	32.52	32.62	33.24	0.020178	3.74	16.15	14.34	1.12
ORIOLA	2325.*	Q100	151.86	30.90	33.47	33.69	34.60	0.019713	4.70	32.30	19.86	1.18
ORIOLA	2325.*	Q500	202.06	30.90	33.85	34.11	35.14	0.019606	5.03	40.16	22.20	1.19
ORIOLA	2330.*	Q10	60.34	31.00	32.64	32.73	33.34	0.019361	3.68	16.38	14.39	1.10
ORIOLA	2330.*	Q100	151.86	31.00	33.59	33.80	34.69	0.019350	4.66	32.57	20.02	1.17
ORIOLA	2330.*	Q500	202.06	31.00	33.95	34.21	35.24	0.019773	5.03	40.16	22.39	1.20
ORIOLA	2335.*	Q10	60.34	31.10	32.73	32.83	33.44	0.020205	3.75	16.10	14.24	1.13
ORIOLA	2335.*	Q100	151.86	31.10	33.70	33.90	34.79	0.019113	4.62	32.85	20.30	1.16
ORIOLA	2335.*	Q500	202.06	31.10	34.03	34.31	35.34	0.020361	5.07	39.86	22.50	1.22
ORIOLA	2340	Q10	60.34	31.20	32.77	32.93	33.57	0.023619	3.97	15.19	13.85	1.21
ORIOLA	2340	Q100	151.86	31.20	33.71	34.00	34.93	0.022497	4.89	31.04	19.94	1.25
ORIOLA	2340	Q500	202.06	31.20	34.10	34.41	35.45	0.021452	5.15	39.24	22.52	1.25
ORIOLA	2345.*	Q10	60.34	31.29	32.91	33.07	33.69	0.022397	3.90	15.46	13.91	1.18
ORIOLA	2345.*	Q100	151.86	31.29	33.86	34.12	35.04	0.021643	4.83	31.47	20.06	1.23
ORIOLA	2345.*	Q500	202.06	31.29	34.26	34.54	35.56	0.020370	5.06	39.95	22.68	1.22
ORIOLA	2350.*	Q10	60.34	31.38	33.06	33.19	33.80	0.021331	3.82	15.79	14.16	1.16
ORIOLA	2350.*	Q100	151.86	31.38	34.00	34.24	35.15	0.020683	4.75	31.96	20.16	1.20
ORIOLA	2350.*	Q500	202.06	31.38	34.42	34.66	35.66	0.019064	4.94	40.89	22.86	1.18
ORIOLA	2355.*	Q10	60.34	31.47	33.21	33.30	33.91	0.019480	3.69	16.35	14.44	1.11
ORIOLA	2355.*	Q100	151.86	31.47	34.15	34.35	35.26	0.019582	4.66	32.55	20.25	1.17
ORIOLA	2355.*	Q500	202.06	31.47	34.60	34.78	35.76	0.017397	4.79	42.22	23.12	1.13
ORIOLA	2360	Q10	60.34	31.56	33.17	33.41	34.09	0.028465	4.24	14.23	13.56	1.32
ORIOLA	2360	Q100	151.86	31.56	34.30	34.47	35.36	0.018252	4.55	33.34	20.38	1.14
ORIOLA	2360	Q500	202.06	31.56	34.83	34.89	35.86	0.014573	4.49	45.01	23.73	1.04
ORIOLA	2365.*	Q10	60.34	31.70	33.37	33.59	34.23	0.027270	4.11	14.67	14.23	1.29
ORIOLA	2365.*	Q100	151.86	31.70	34.49	34.61	35.46	0.017375	4.35	34.88	22.12	1.11
ORIOLA	2365.*	Q500	202.06	31.70	35.00	35.00	35.94	0.013919	4.29	47.12	25.90	1.01
ORIOLA	2370.*	Q10	60.34	31.84	33.58	33.77	34.37	0.025778	3.96	15.25	15.05	1.26
ORIOLA	2370.*	Q100	151.86	31.84	34.66	34.76	35.55	0.016749	4.17	36.40	24.07	1.08
ORIOLA	2370.*	Q500	202.06	31.84	35.14	35.13	36.01	0.013126	4.15	48.82	29.93	0.99
ORIOLA	2375.*	Q10	60.34	31.97	33.79	33.94	34.50	0.023457	3.75	16.10	16.11	1.20
ORIOLA	2375.*	Q100	151.86	31.97	34.84	34.90	35.64	0.015808	3.96	38.39	26.45	1.05
ORIOLA	2375.*	Q500	202.06	31.97	35.27	35.24	36.09	0.012229	4.01	51.06	33.68	0.95
ORIOLA	2380	Q10	60.34	32.11	34.10	34.10	34.62	0.016340	3.18	18.96	18.53	1.00
ORIOLA	2380	Q100	151.86	32.11	35.00	35.00	35.72	0.015044	3.76	40.44	29.21	1.02
ORIOLA	2380	Q500	202.06	32.11	35.40	35.35	36.15	0.011395	3.86	53.53	37.07	0.92
ORIOLA	2385.*	Q10	60.34	32.19	34.40	34.14	34.70	0.008637	2.43	24.86	22.76	0.74
ORIOLA	2385.*	Q100	151.86	32.19	35.37	35.00	35.80	0.006735	2.91	53.20	37.47	0.71
ORIOLA	2385.*	Q500	202.06	32.19	35.73	35.34	36.22	0.006116	3.15	67.88	44.81	0.70
ORIOLA	2390.*	Q10	60.34	32.28	34.48		34.74	0.007358	2.25	26.85	24.57	0.69
ORIOLA	2390.*	Q100	151.86	32.28	35.46		35.83	0.005512	2.71	57.66	40.39	0.65
ORIOLA	2390.*	Q500	202.06	32.28	35.83		36.25	0.004965	2.92	74.09	48.20	0.63
ORIOLA	2395.*	Q10	60.34	32.36	34.55		34.78	0.006427	2.11	28.66	26.19	0.64
ORIOLA	2395.*	Q100	151.86	32.36	35.54		35.86	0.004694	2.55	61.67	42.97	0.60
ORIOLA	2395.*	Q500	202.06	32.36	35.91		36.28	0.004231	2.74	79.37	50.99	0.59

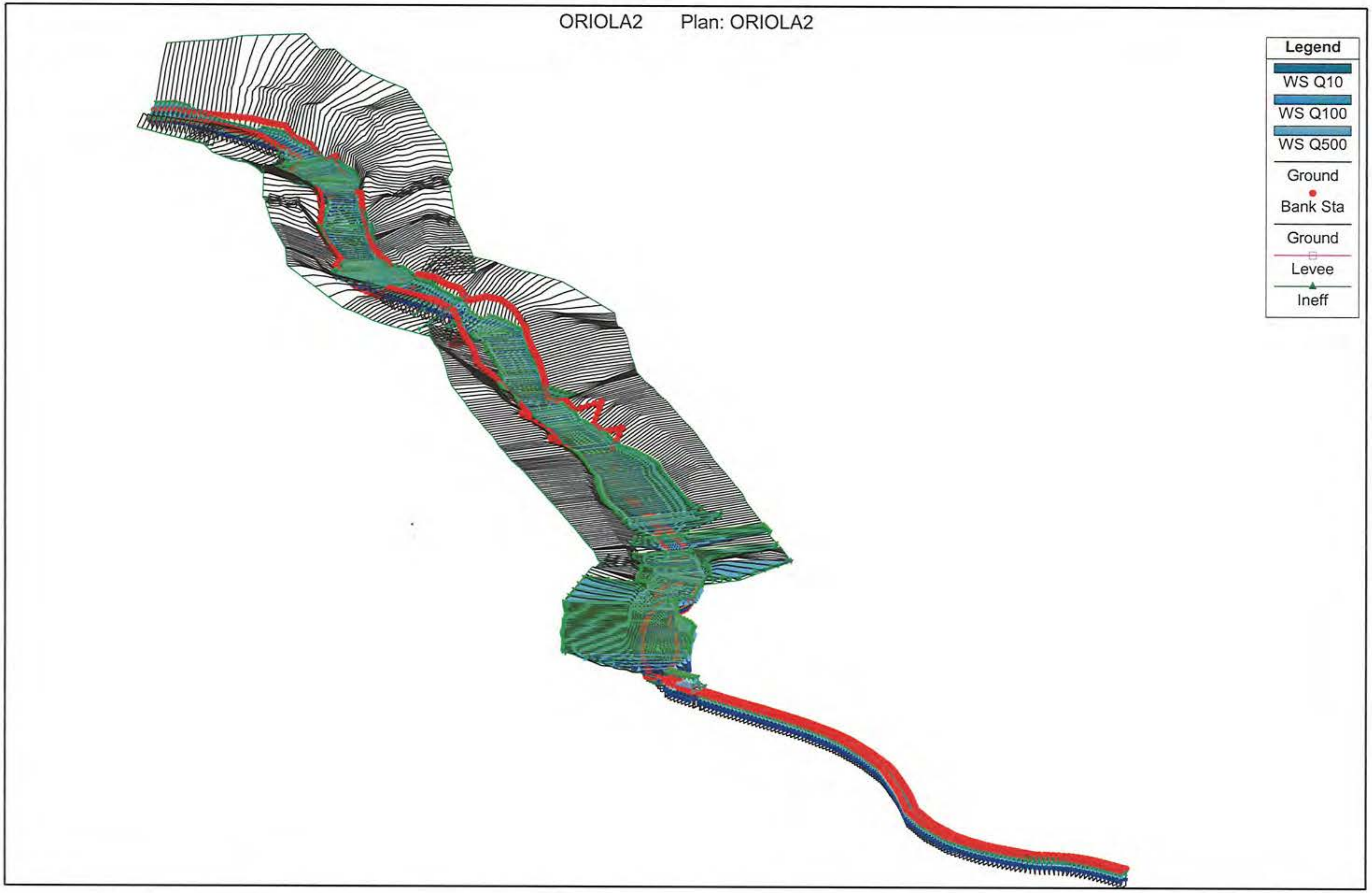
HEC-RAS Plan: ORIOLA2 River: ORIOLA Reach: ORIOLA (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
ORIOLA	2400	Q10	60.34	32.44	34.61		34.81	0.005729	1.99	30.31	27.69	0.61
ORIOLA	2400	Q100	151.86	32.44	35.59		35.89	0.004121	2.43	65.24	45.30	0.56
ORIOLA	2400	Q500	202.06	32.44	35.98		36.31	0.003721	2.61	84.01	53.43	0.55
ORIOLA	2405.*	Q10	60.34	32.52	34.62		34.85	0.006925	2.14	28.17	26.58	0.66
ORIOLA	2405.*	Q100	151.86	32.52	35.59		35.92	0.004816	2.58	61.44	44.05	0.61
ORIOLA	2405.*	Q500	202.06	32.52	35.97		36.34	0.004293	2.76	79.60	52.20	0.59
ORIOLA	2410.*	Q10	60.34	32.59	34.63		34.90	0.008366	2.30	26.18	25.51	0.73
ORIOLA	2410.*	Q100	151.86	32.59	35.58		35.96	0.005669	2.76	57.70	42.79	0.66
ORIOLA	2410.*	Q500	202.06	32.59	35.96		36.38	0.004988	2.93	75.23	50.94	0.64
ORIOLA	2415.*	Q10	60.34	32.67	34.65		34.96	0.010045	2.47	24.38	24.51	0.79
ORIOLA	2415.*	Q100	151.86	32.67	35.58		36.01	0.006727	2.95	54.02	41.48	0.71
ORIOLA	2415.*	Q500	202.06	32.67	35.95		36.42	0.005843	3.13	70.88	49.63	0.69
ORIOLA	2420	Q10	60.34	32.74	34.67	34.56	35.03	0.011937	2.65	22.80	23.58	0.86
ORIOLA	2420	Q100	151.86	32.74	35.57	35.36	36.07	0.008070	3.17	50.37	40.13	0.78
ORIOLA	2420	Q500	202.06	32.74	35.93	35.71	36.47	0.006922	3.34	66.50	48.25	0.74

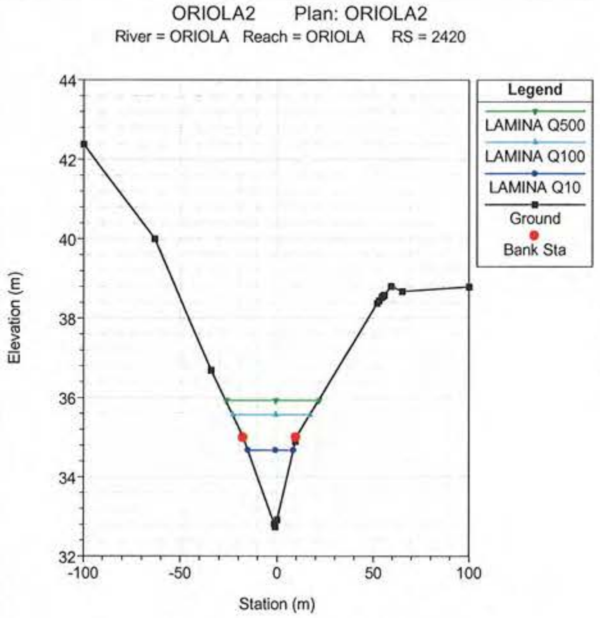
2.2 ESQUEMA LONGITUDINAL

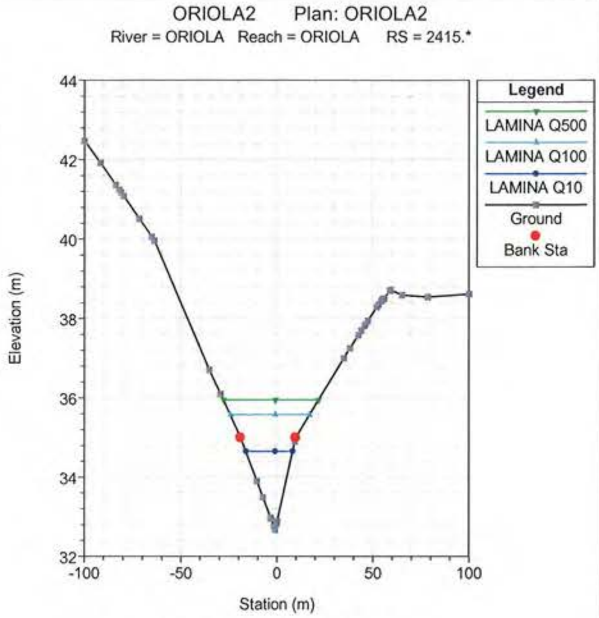

ORIOLA2 Plan: ORIOLA2
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Elevation (m)
Main Channel Distance (m)
40
35
30
25
20
15
10
5
0
500
1000
1500
2000
2500

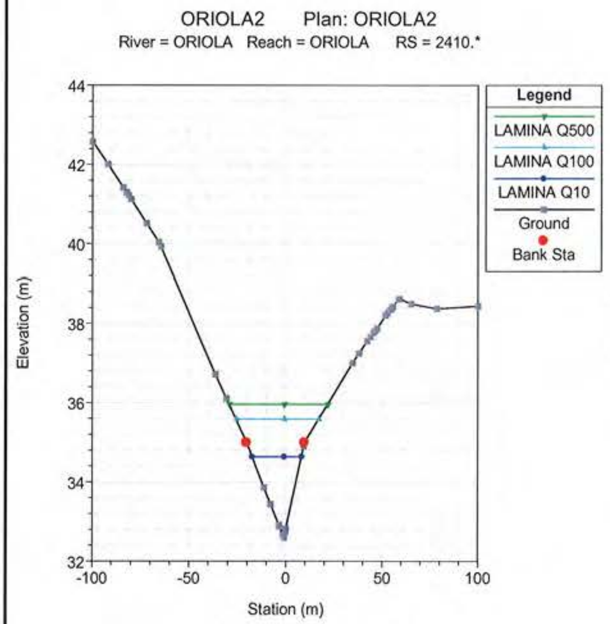
2.3 ESQUEMA EN PLANTA

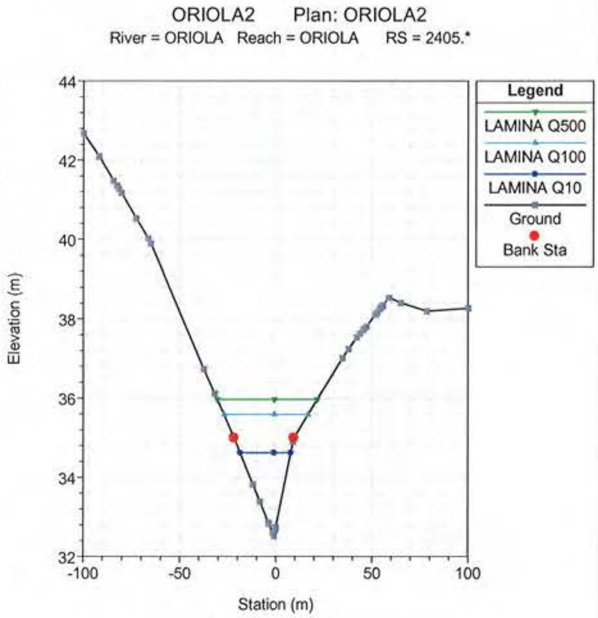

ORIOLA2 Plan: ORIOLA2
Legend
WS Q10
WS Q100
WS Q500
Ground
Bank Sta
Ground
Levee
Ineff

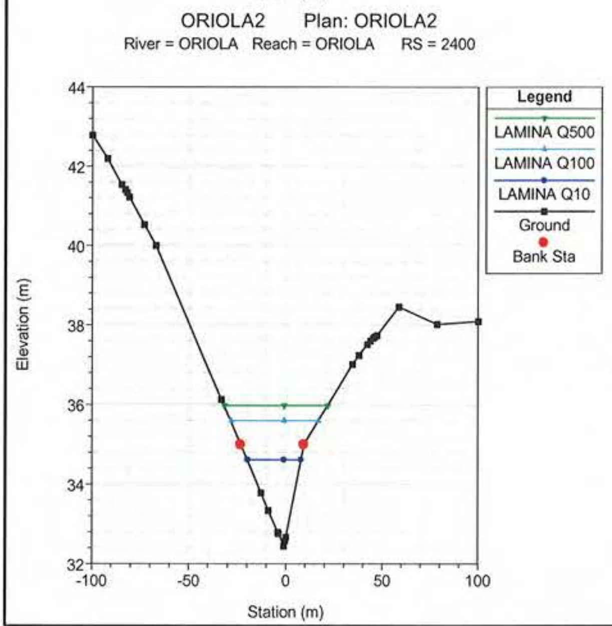
2.4 SECCIONS TRANSVERSALS

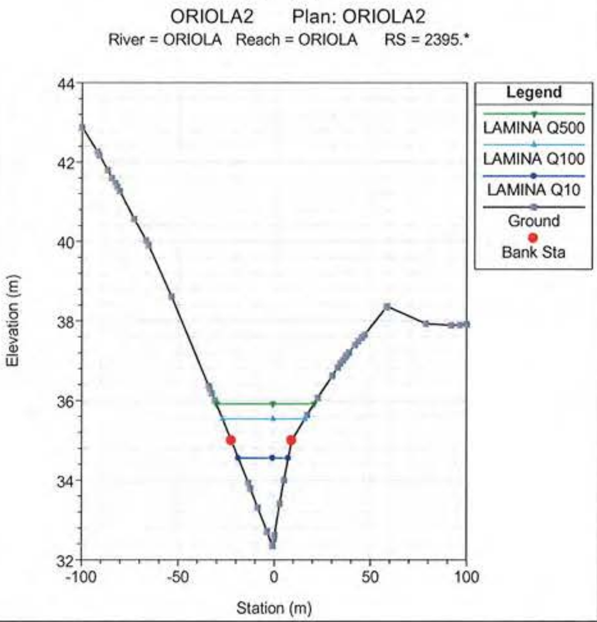

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2420
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

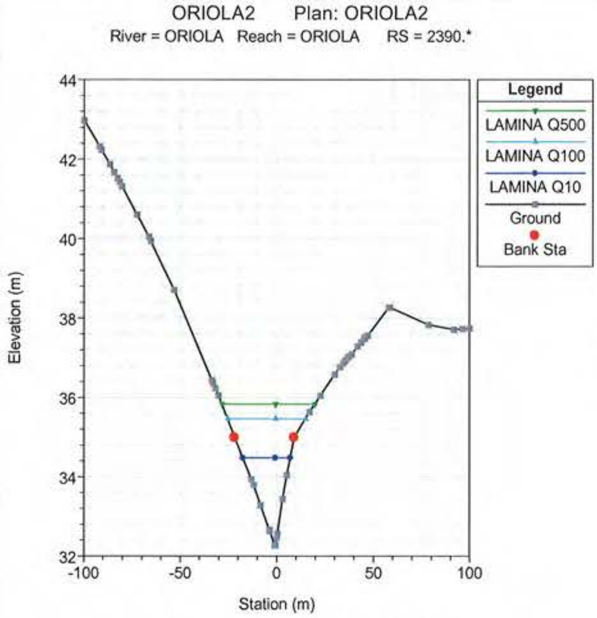

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2415.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

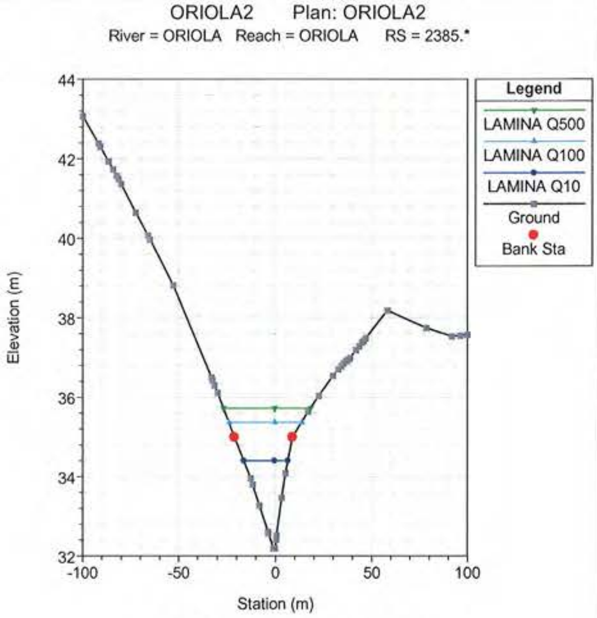

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2410.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

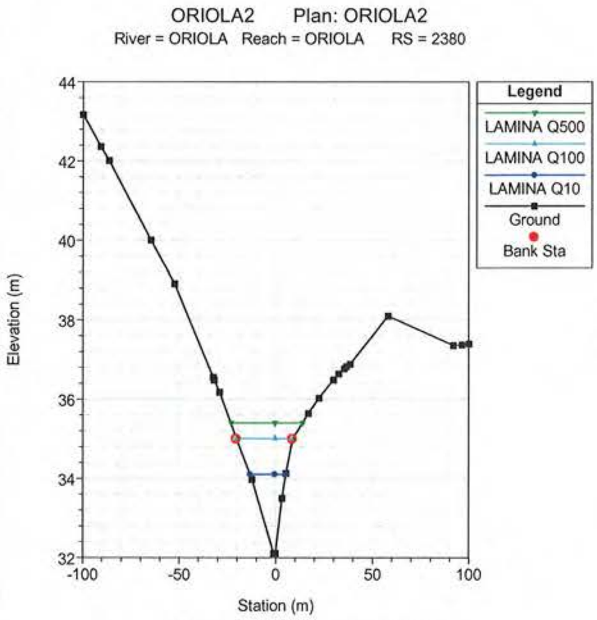

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2405.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

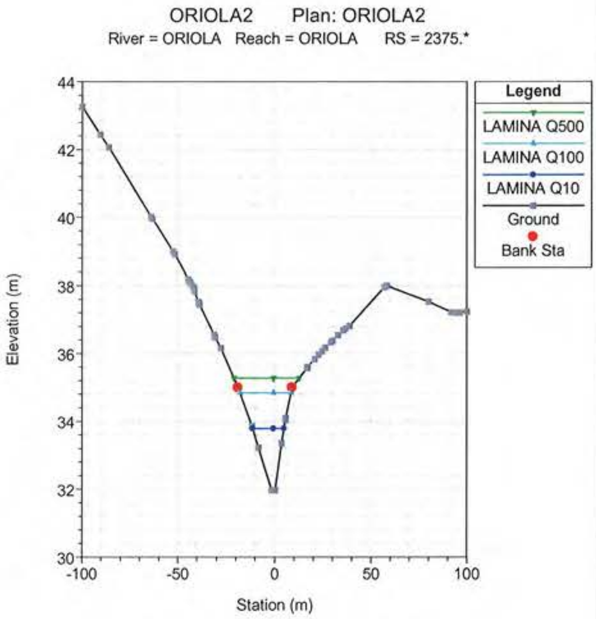

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2400
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

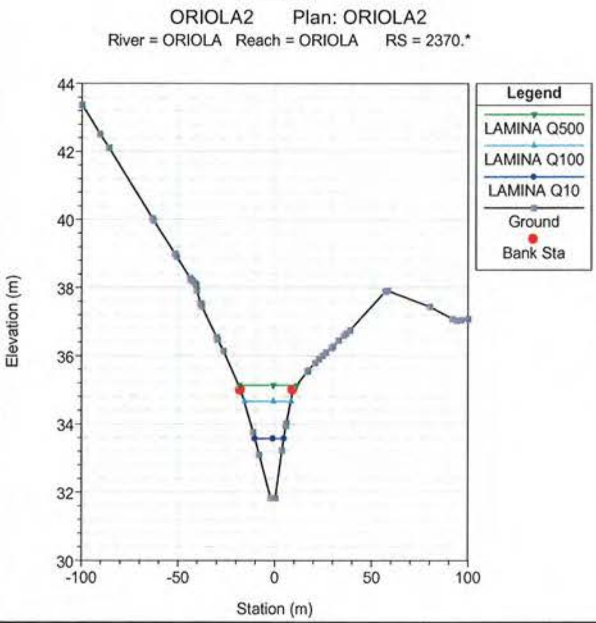

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2395.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

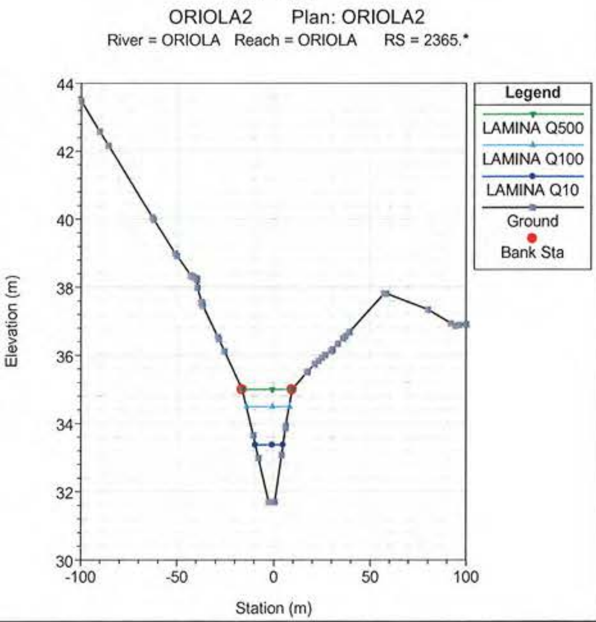

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2390.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2385.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
-100
-50
0
50
100

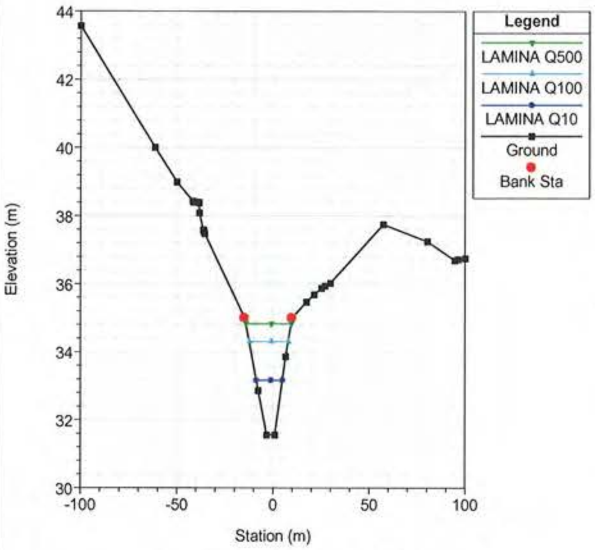

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2380
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2375.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
30
-100
-50
0
50
100

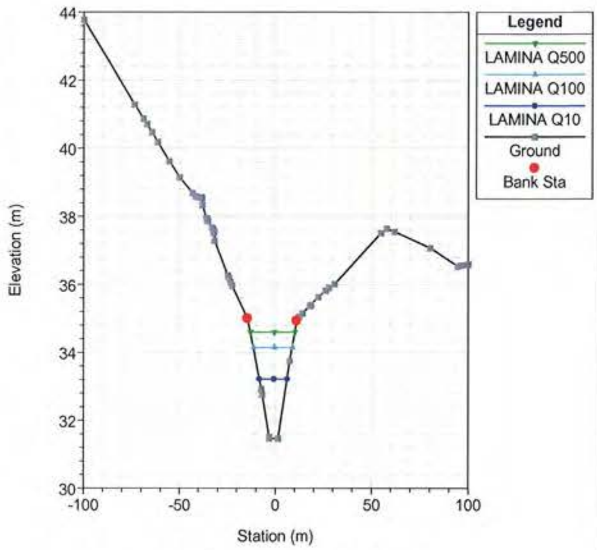

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2370.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
30
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2365.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
44
42
40
38
36
34
32
30
-100
-50
0
50
100

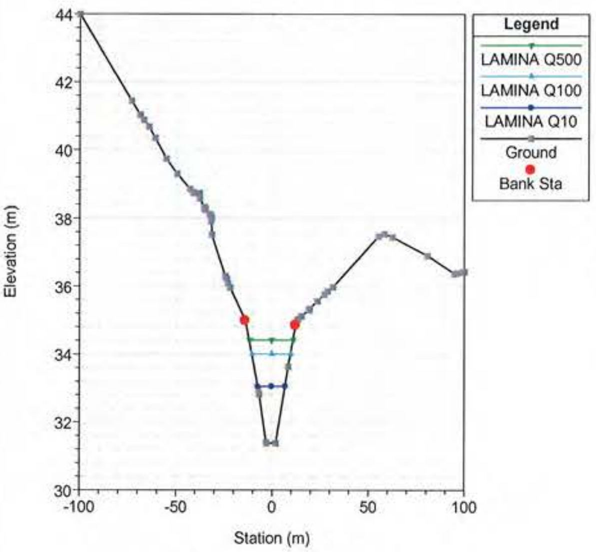
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2360



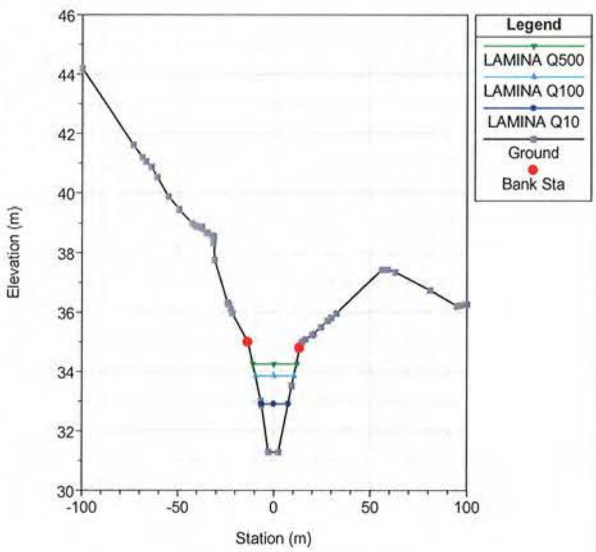
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2355.*



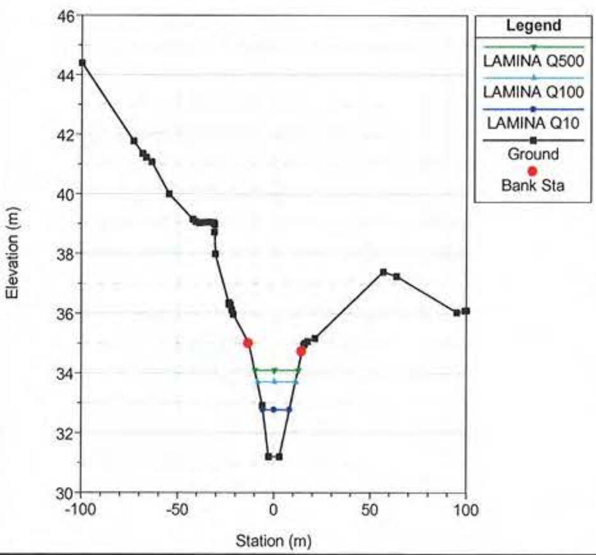
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2350.*



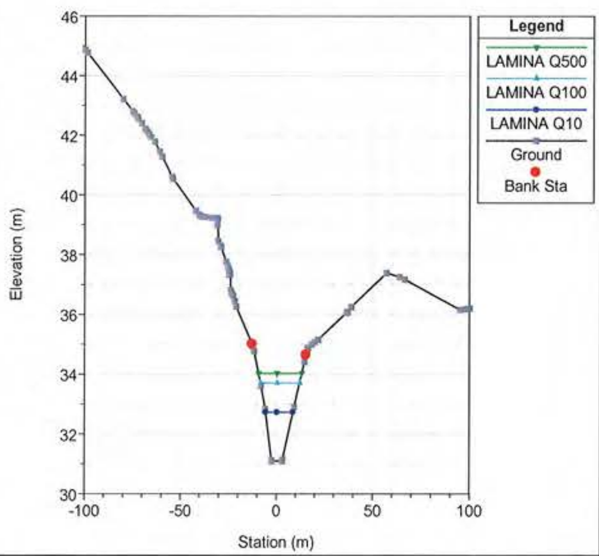
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2345.*



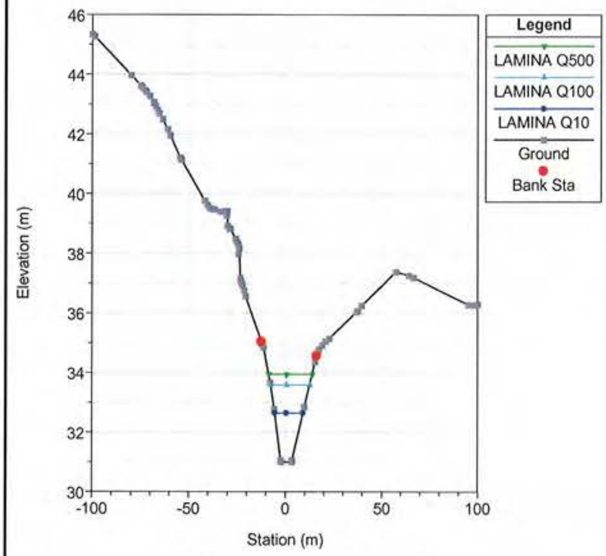
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2340



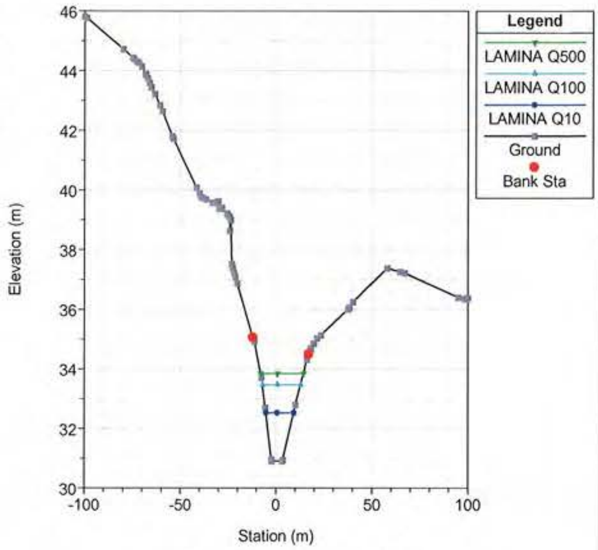
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2335.*



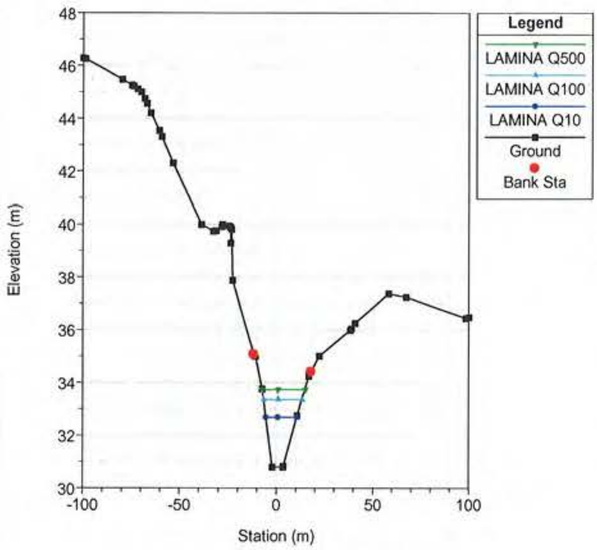
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2330.*



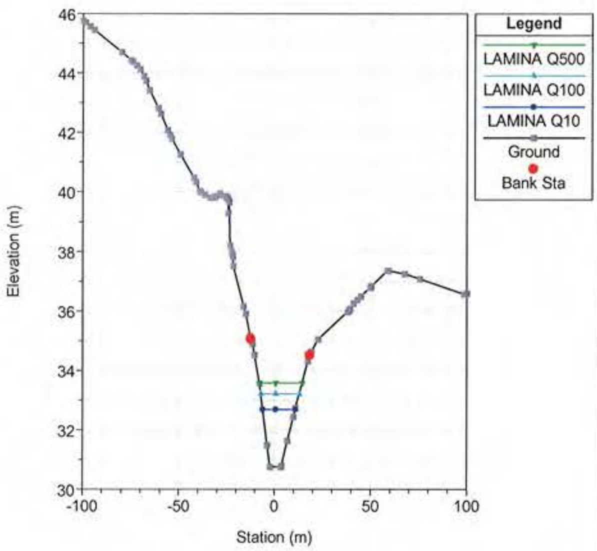
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2325.*



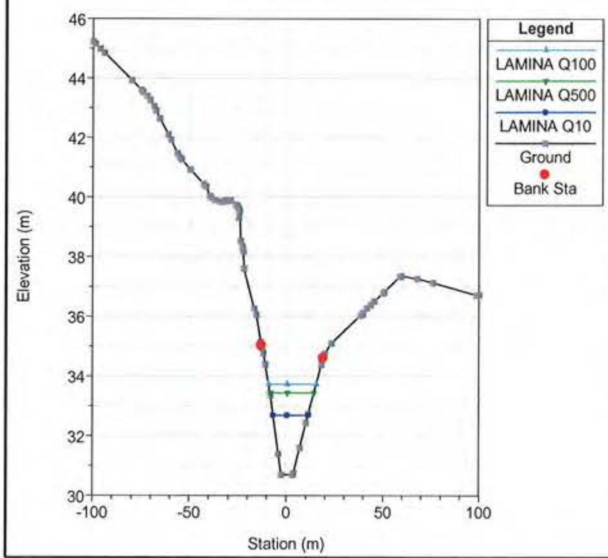
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2320



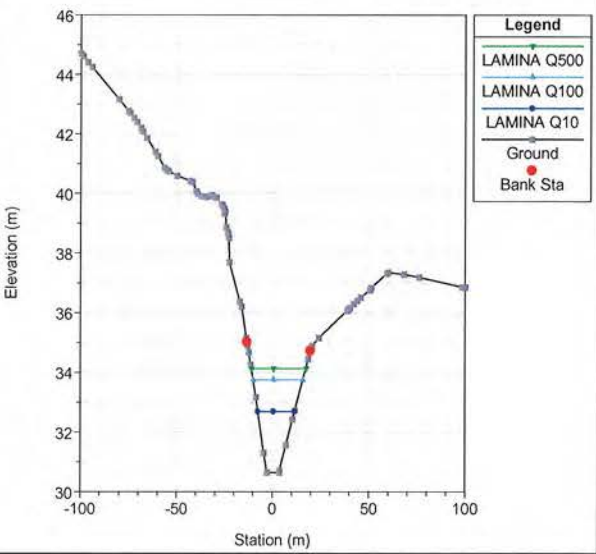
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2315.*

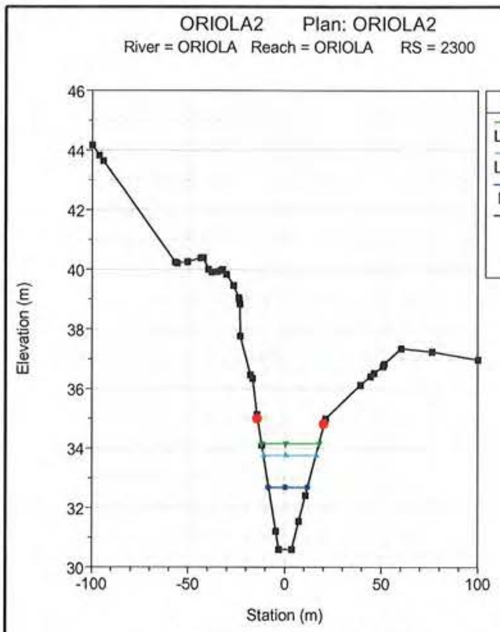


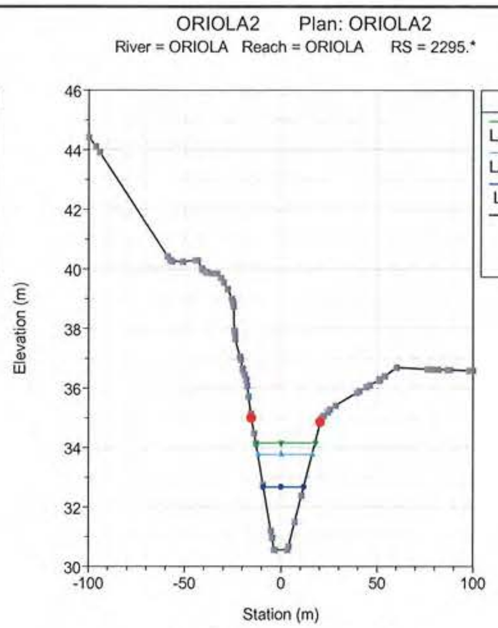
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2310.*

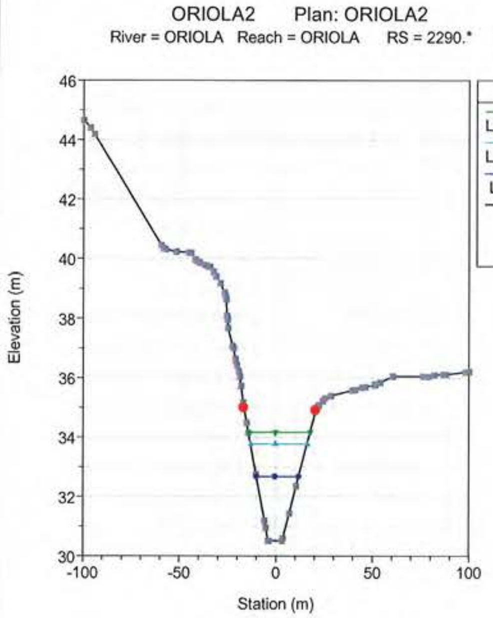


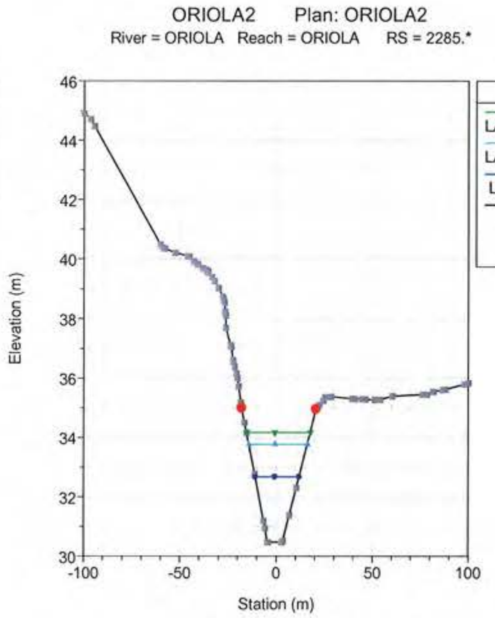
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2305.*

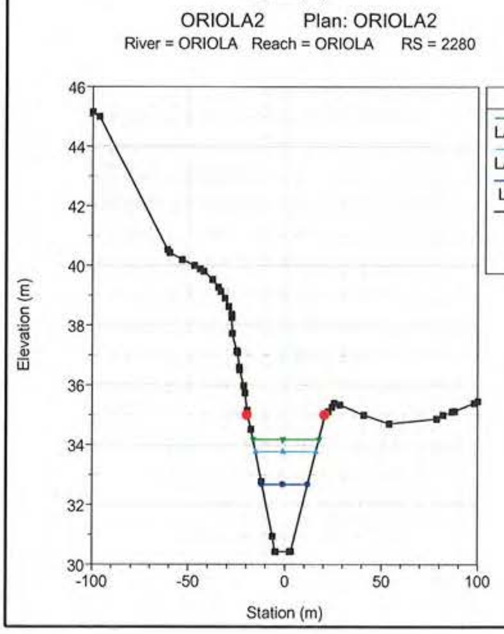


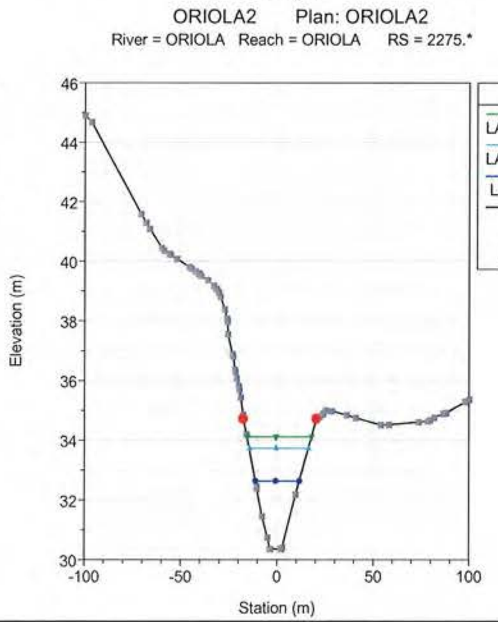

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2300
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2295.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

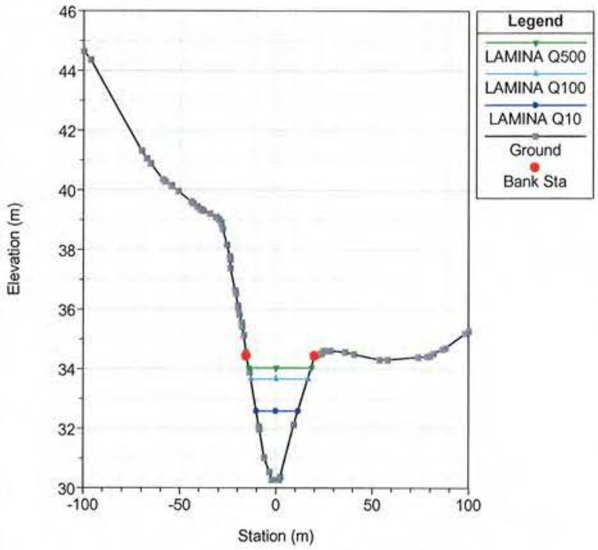

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2290.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2285.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

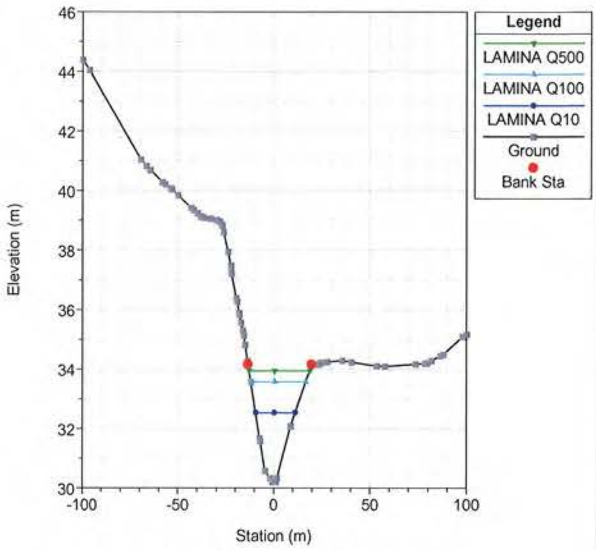

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2280
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2275.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

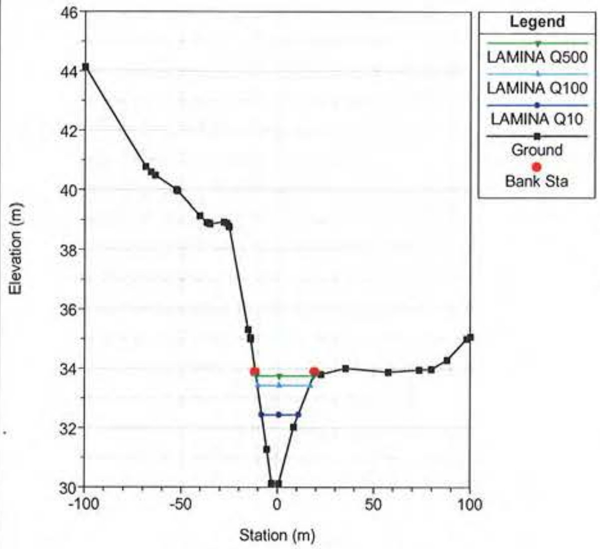
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2270.*



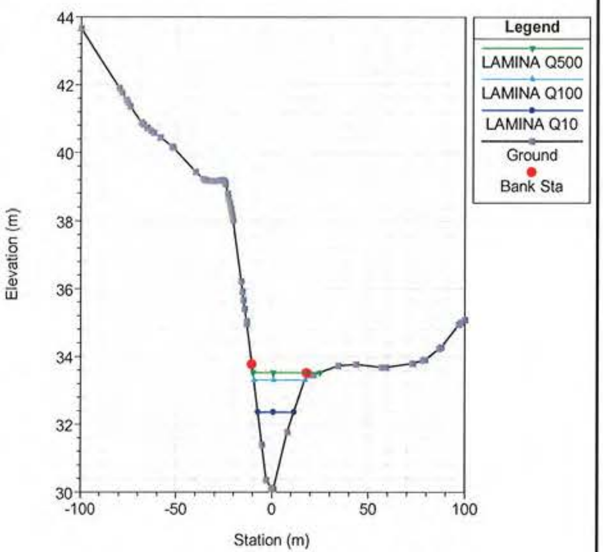
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2265.*



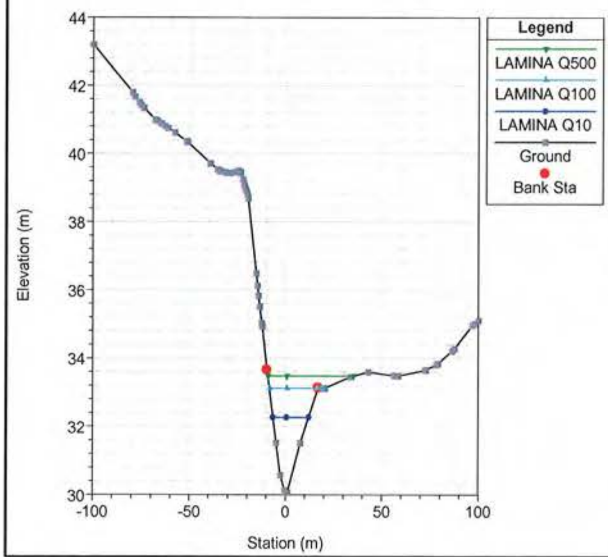
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2260



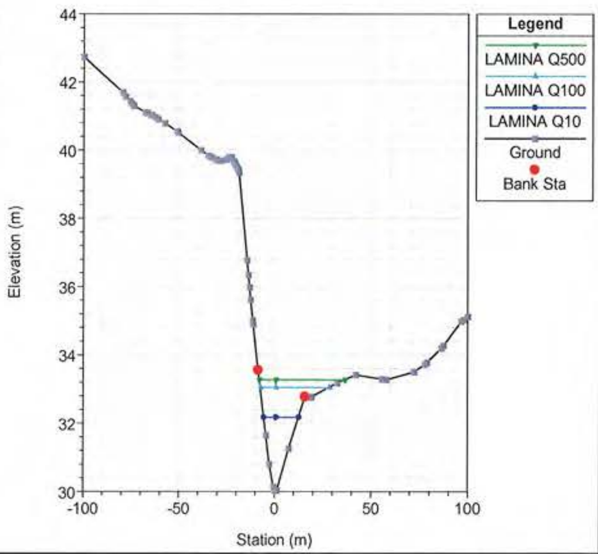
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2255.*

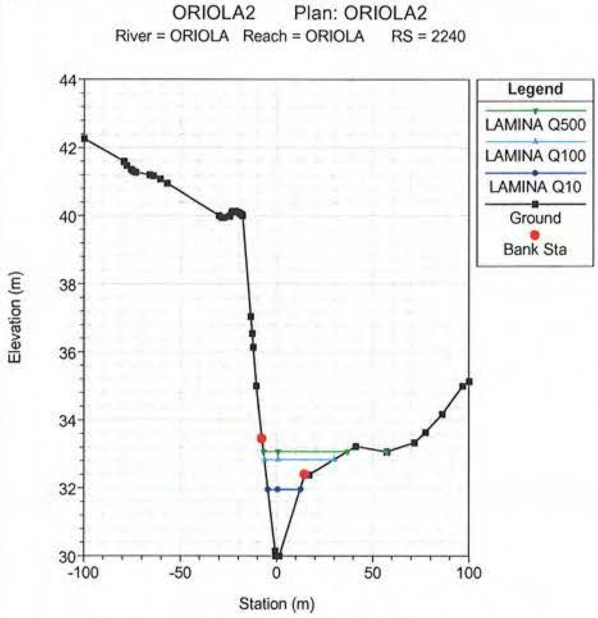


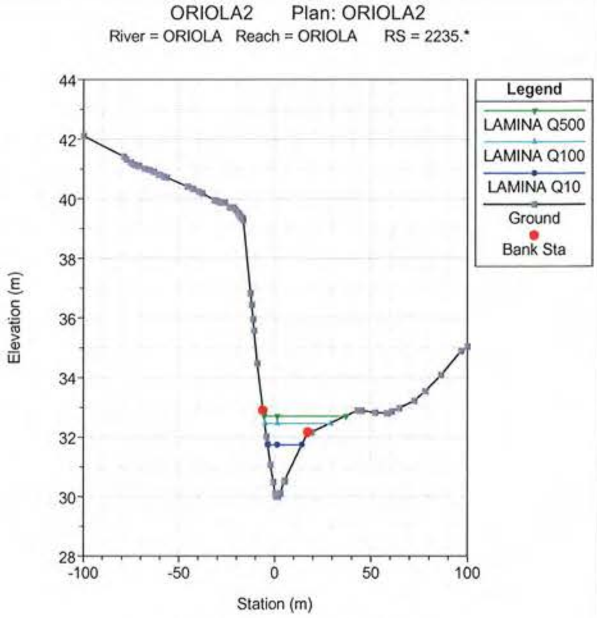
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2250.*

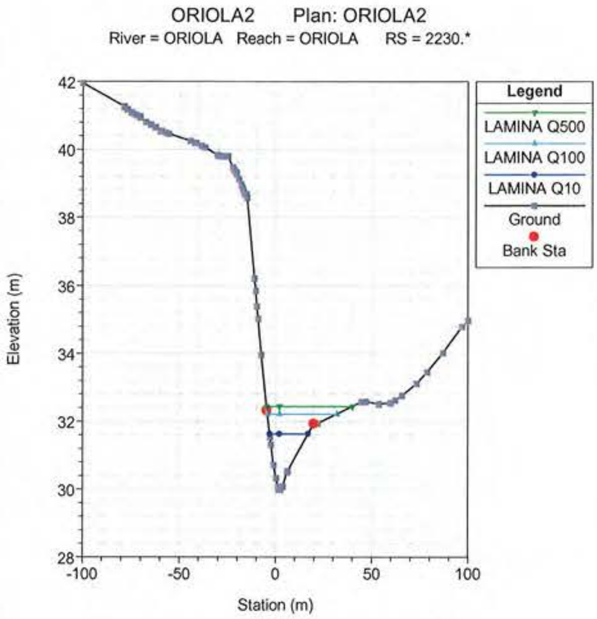


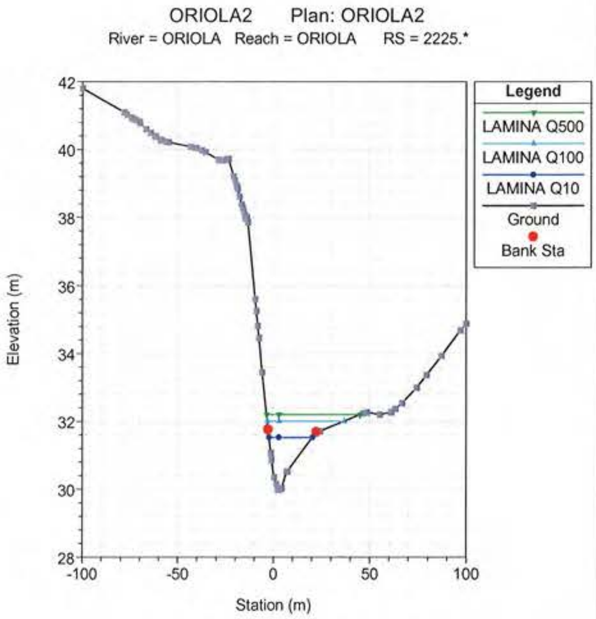
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2245.*

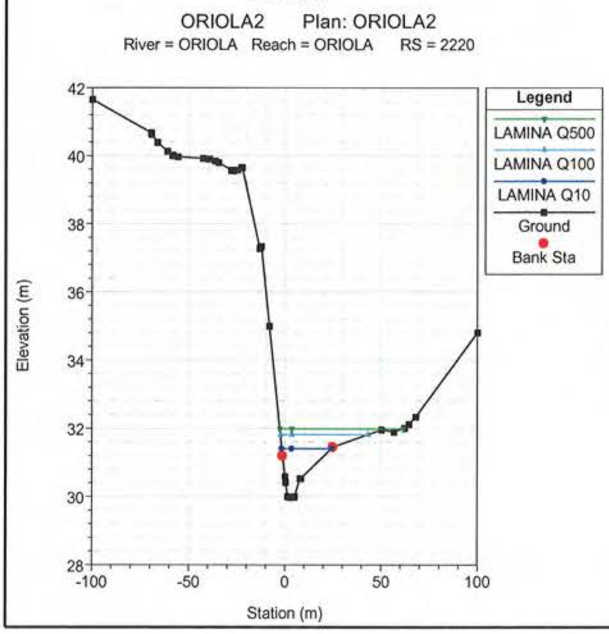


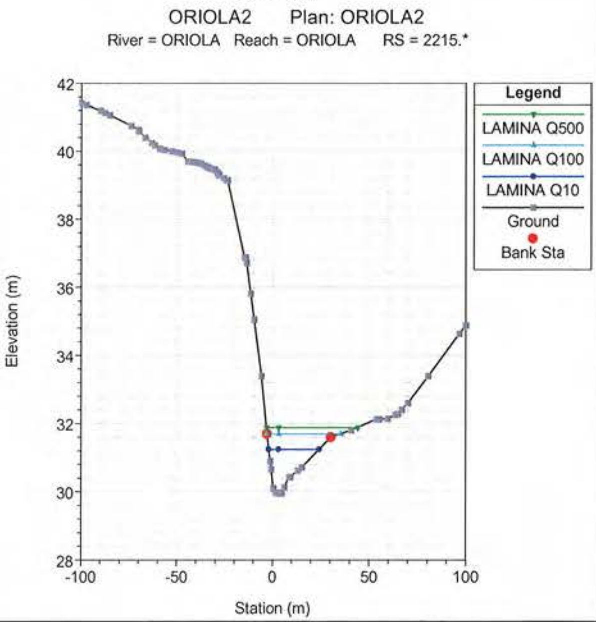

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2240
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

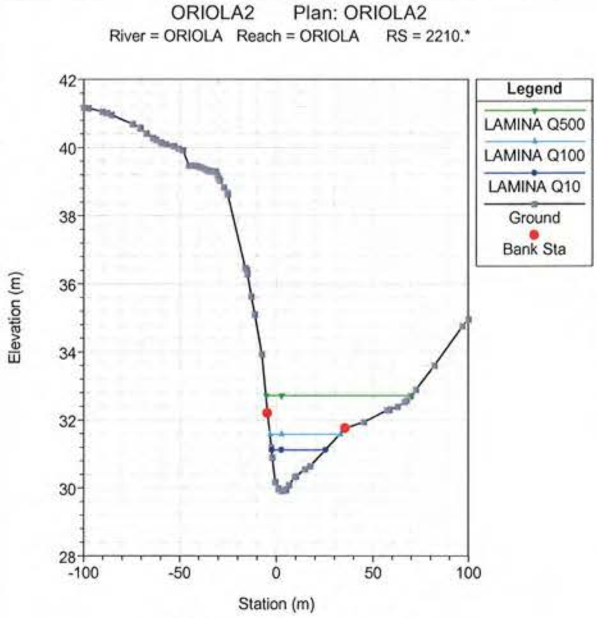

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2235.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

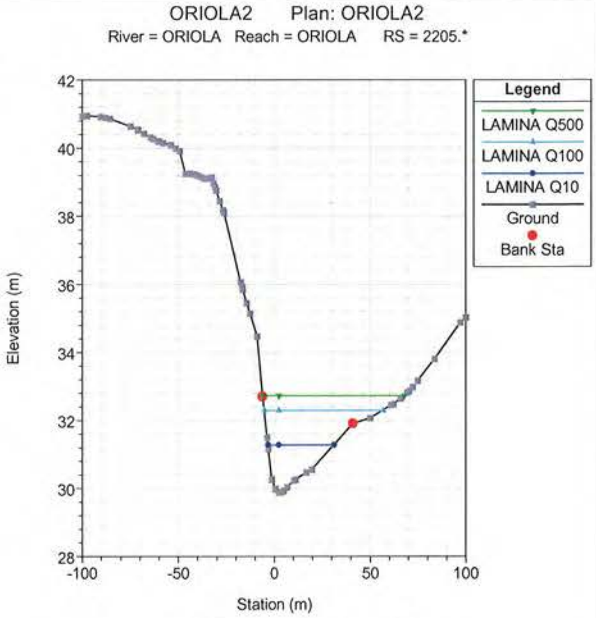

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2230.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

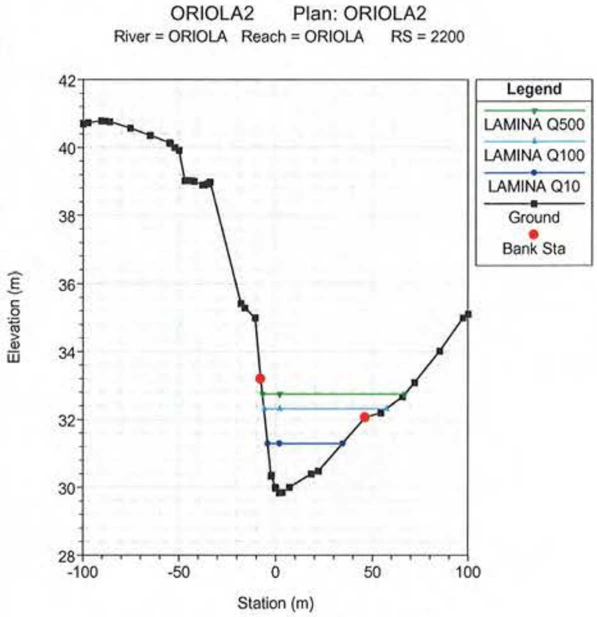

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2225.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

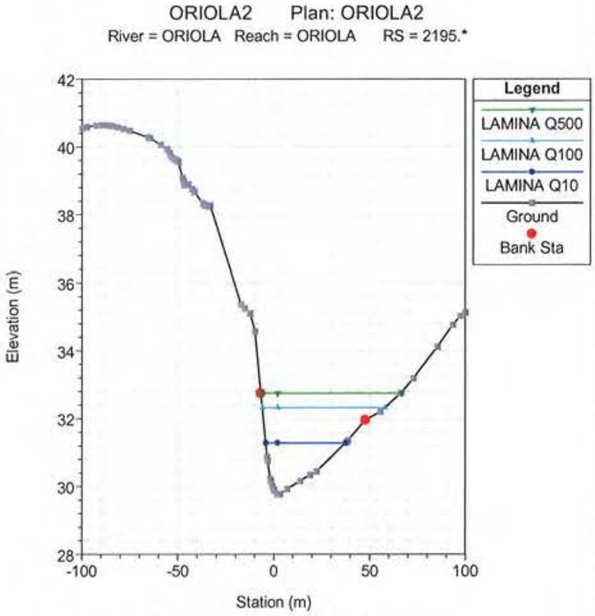

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2220
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

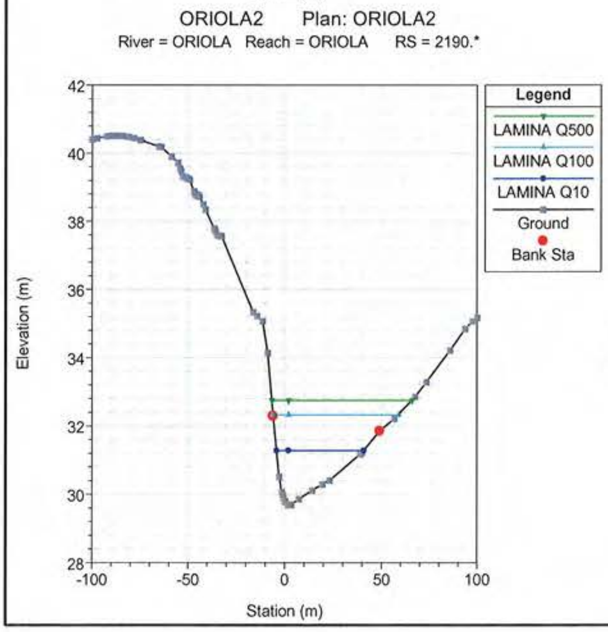

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2215.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

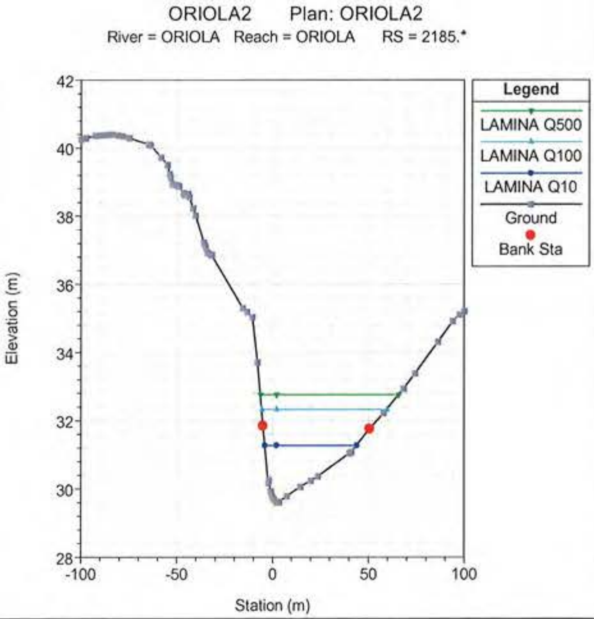

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2210.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

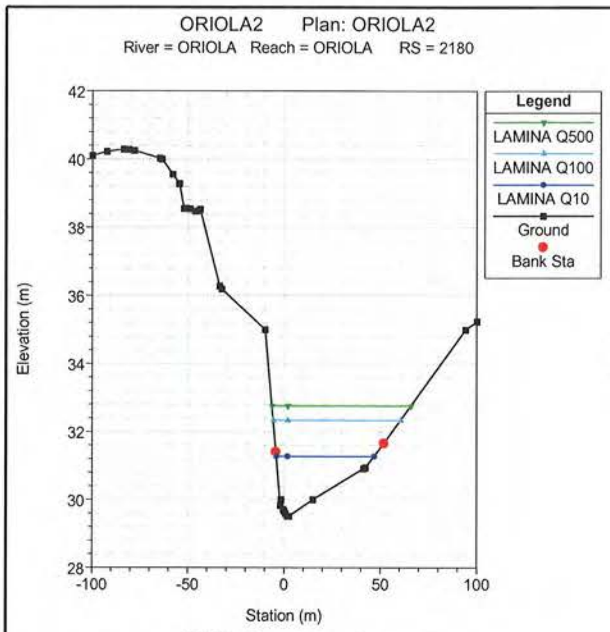

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2205.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

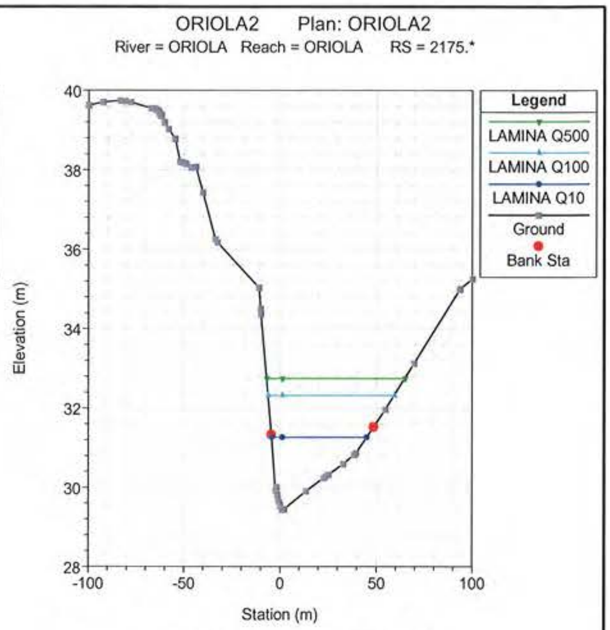

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2200
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

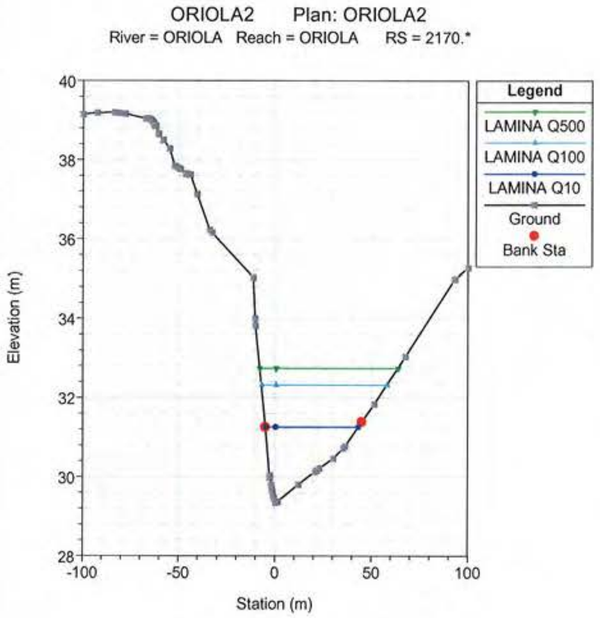

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2195.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

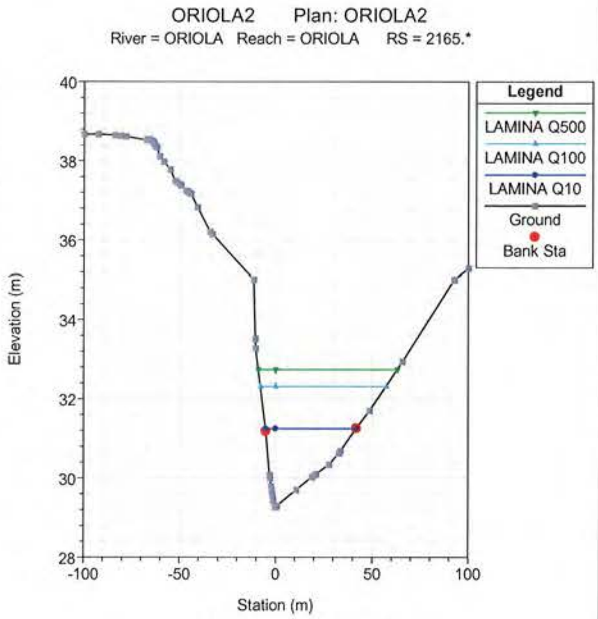

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2190.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

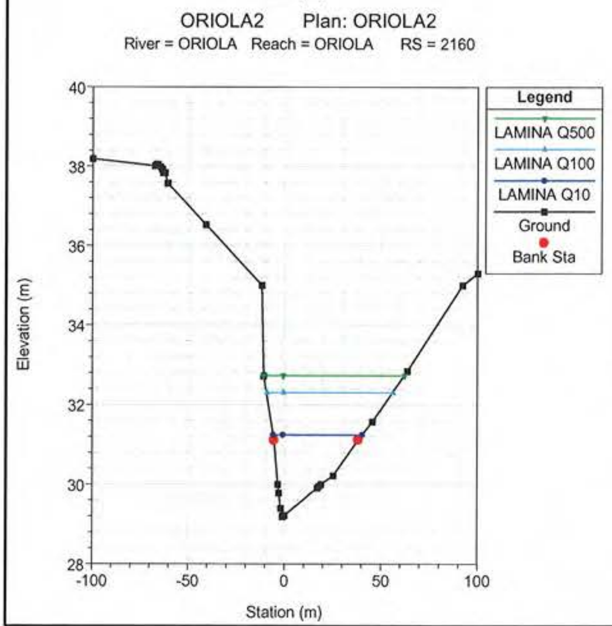

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2185.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

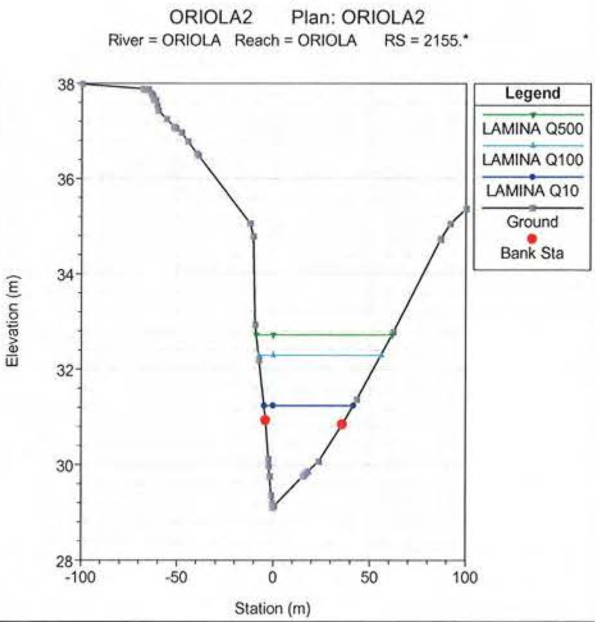

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2180
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

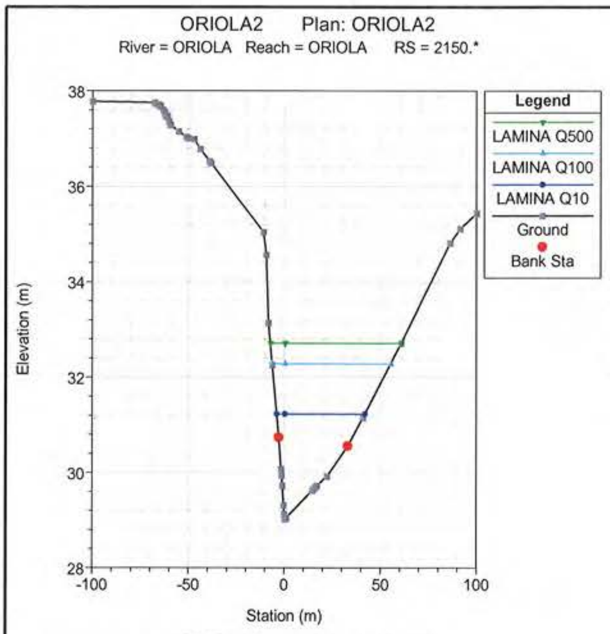

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2175.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

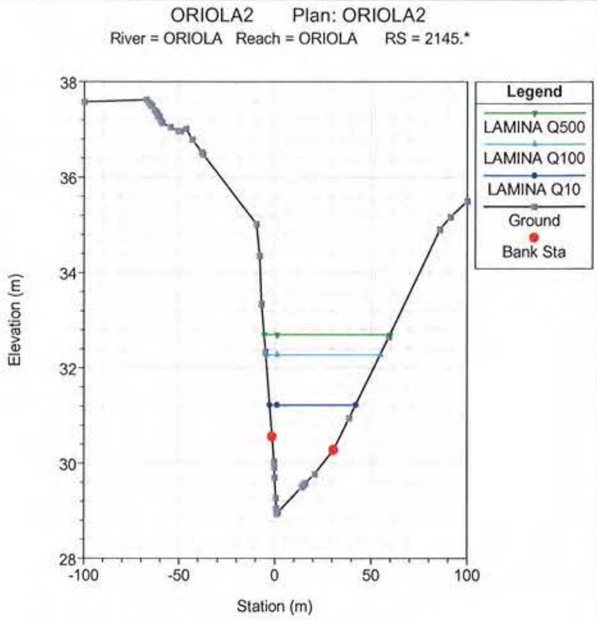

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2170.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

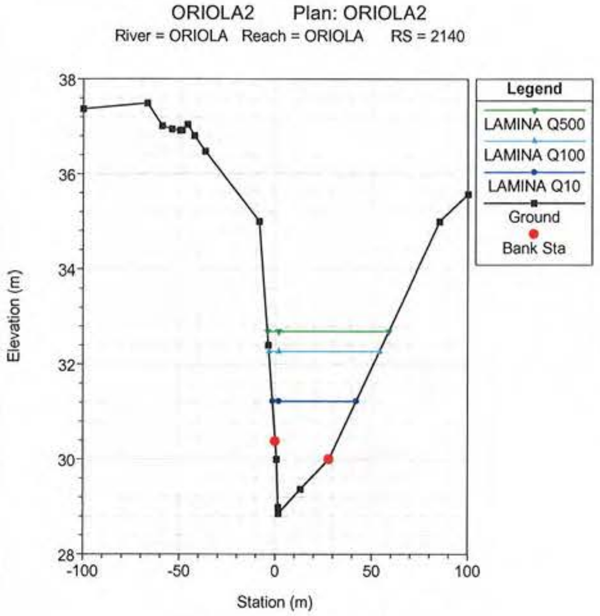

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2165.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

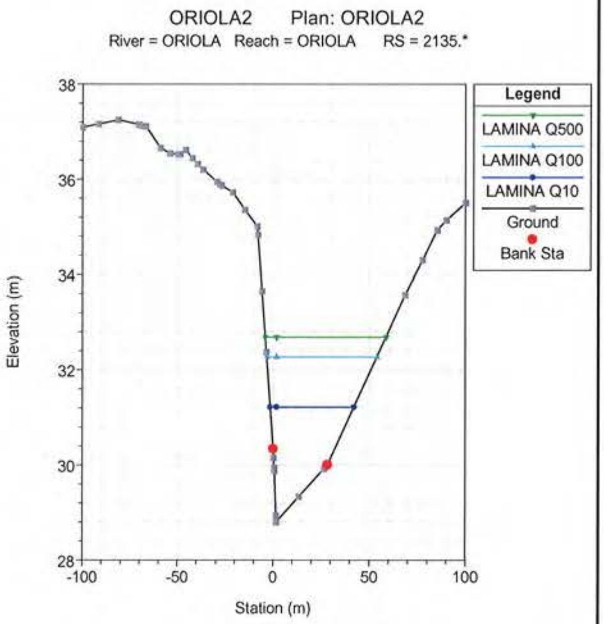

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2160
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

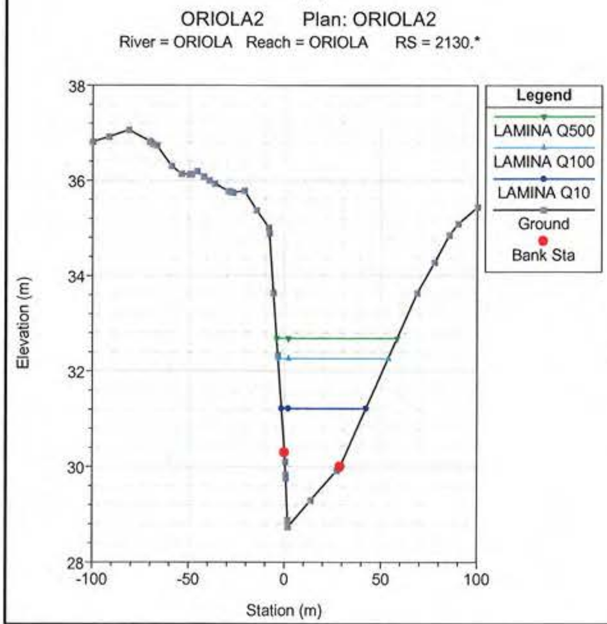

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2155.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

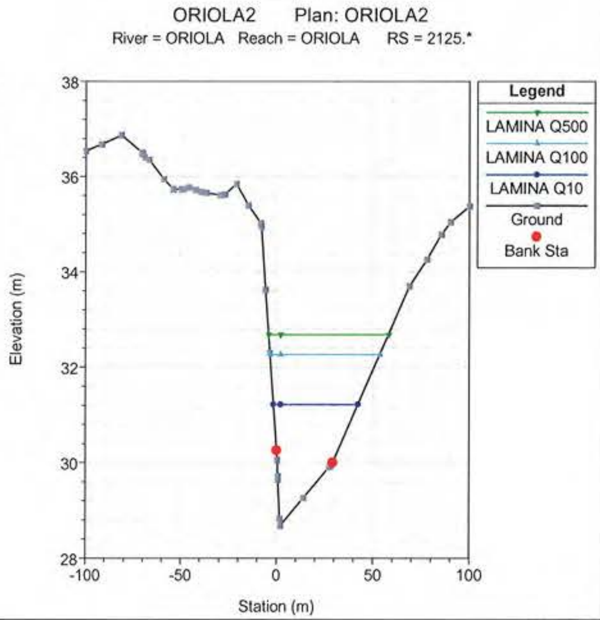

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2150.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

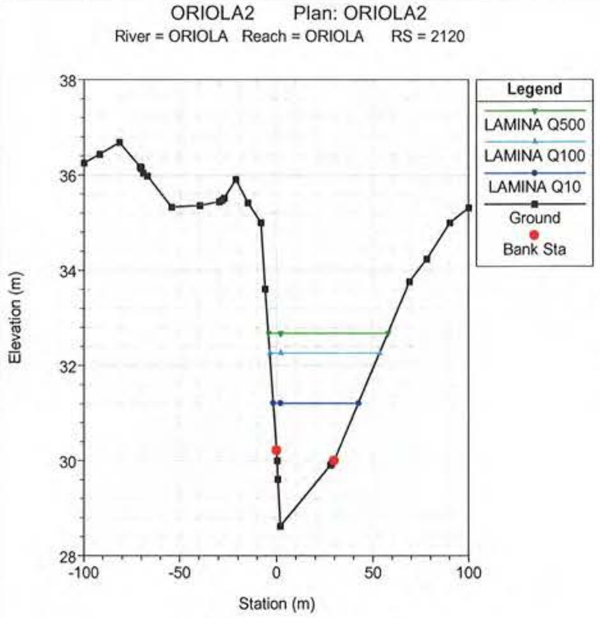

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2145.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

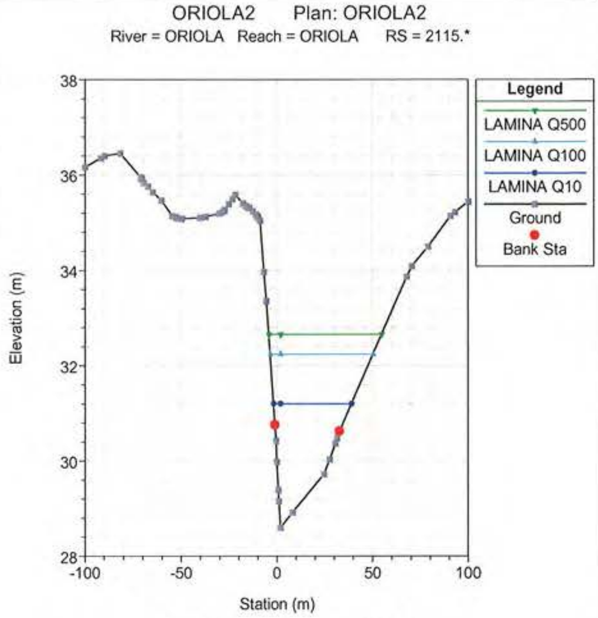

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2140
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

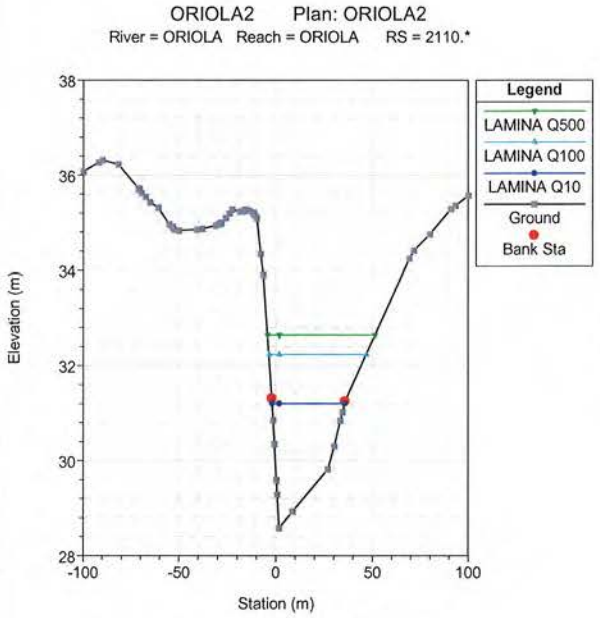

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2135.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

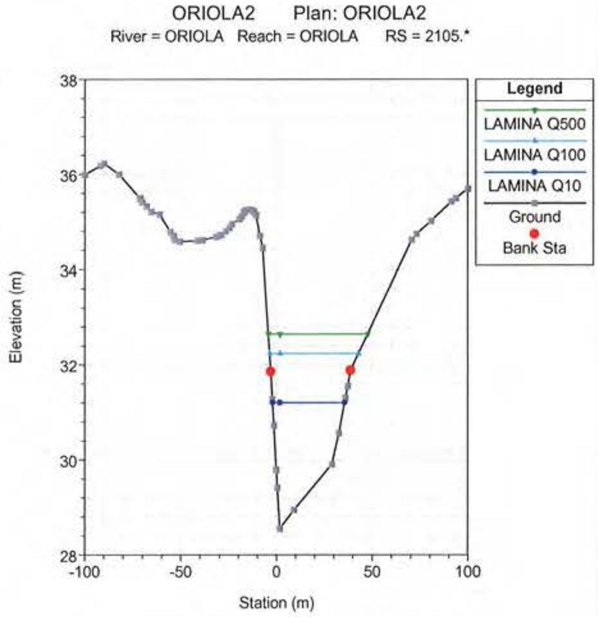

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2130.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

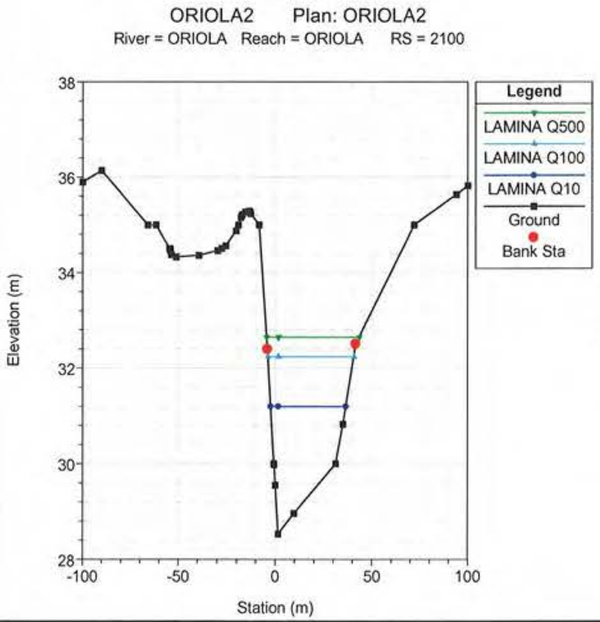

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2125.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

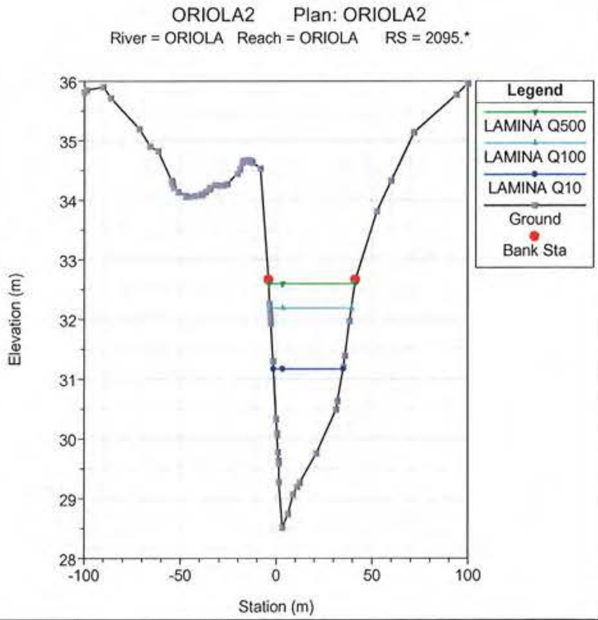

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2120
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

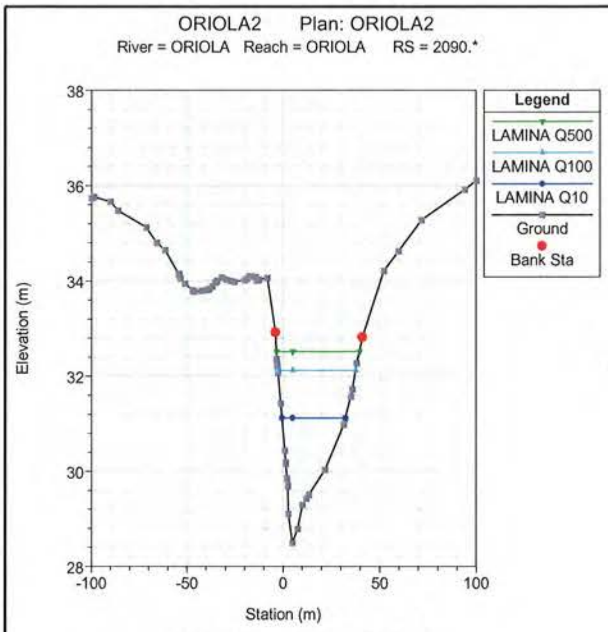

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2115.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

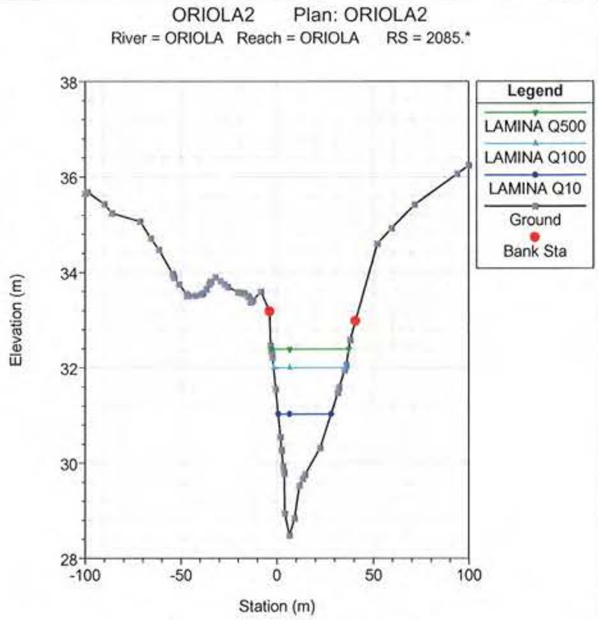

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2110.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

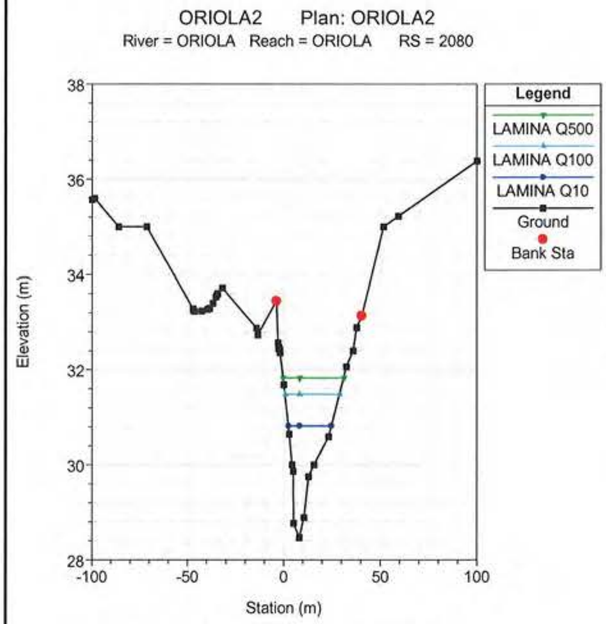

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2105.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

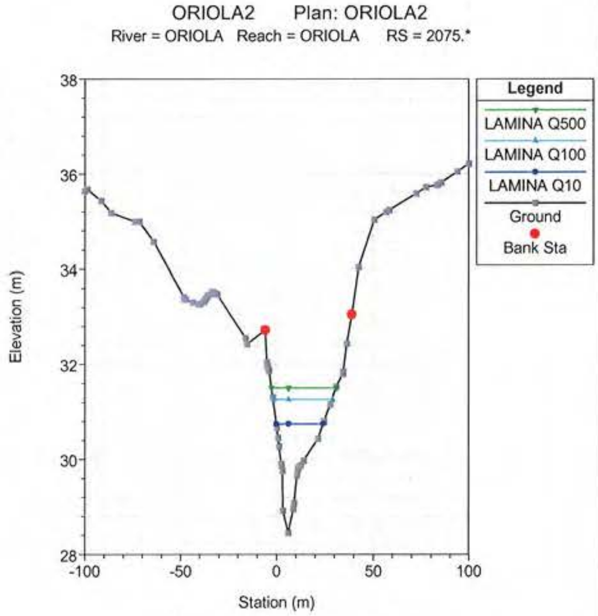

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2100
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

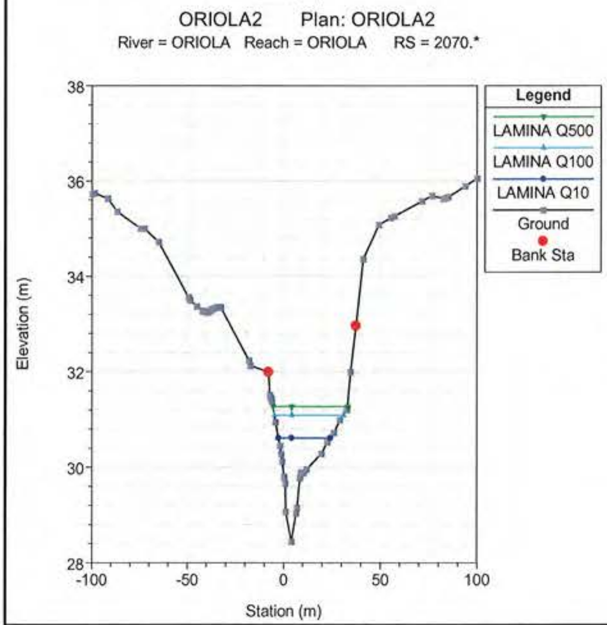

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2095.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

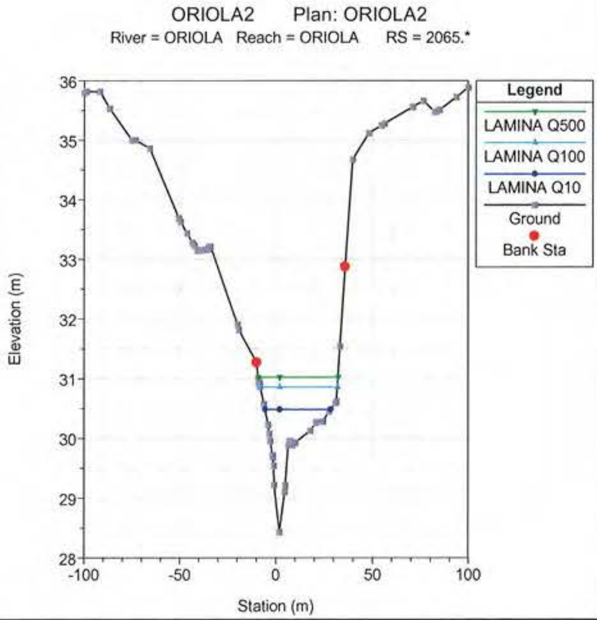

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2090.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

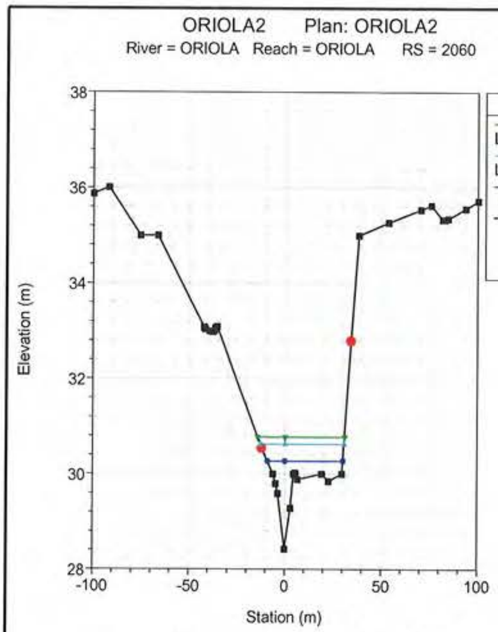

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2085.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

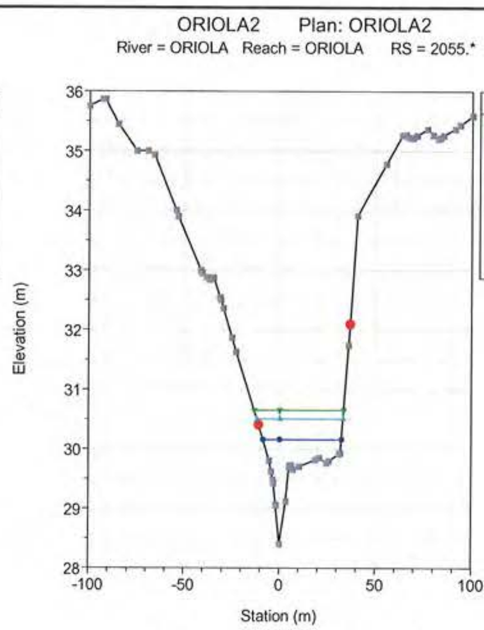

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2080
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

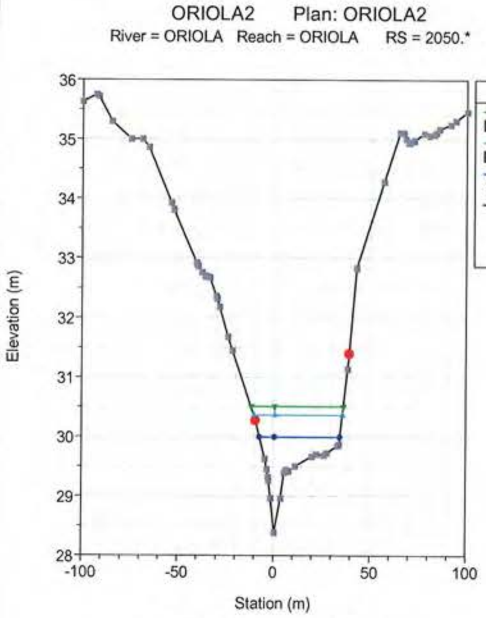

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2075.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

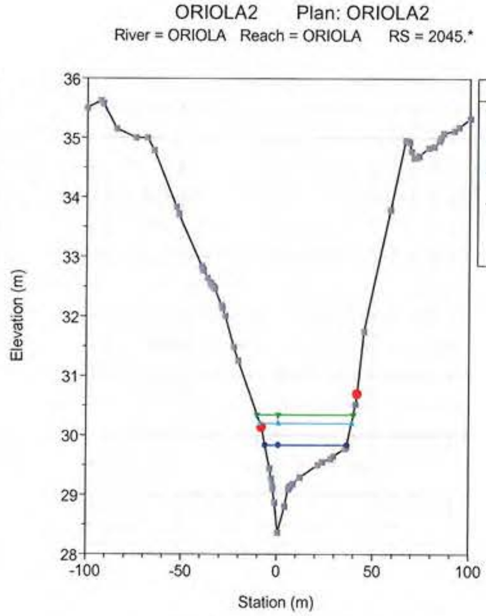

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2070.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

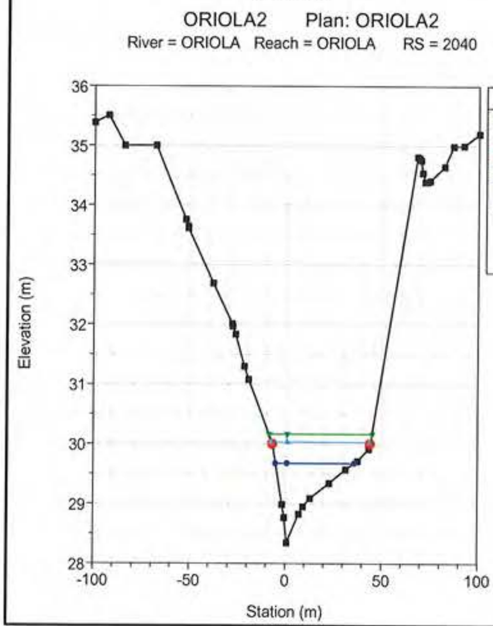

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2065.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

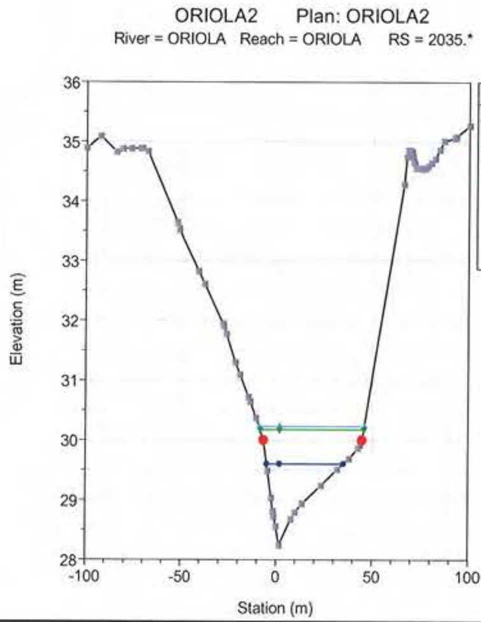

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2060
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

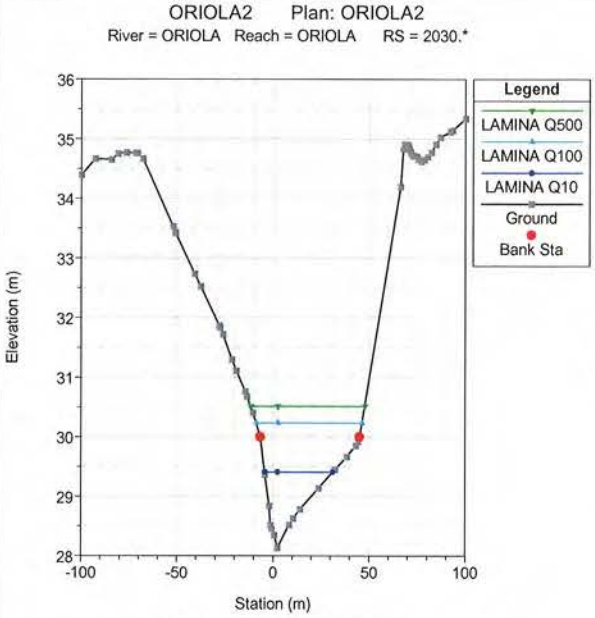

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2055.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2050.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

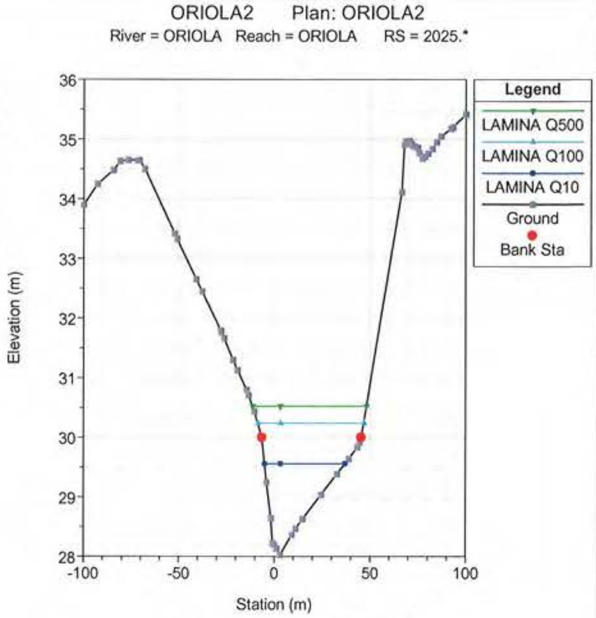

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2045.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2040
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

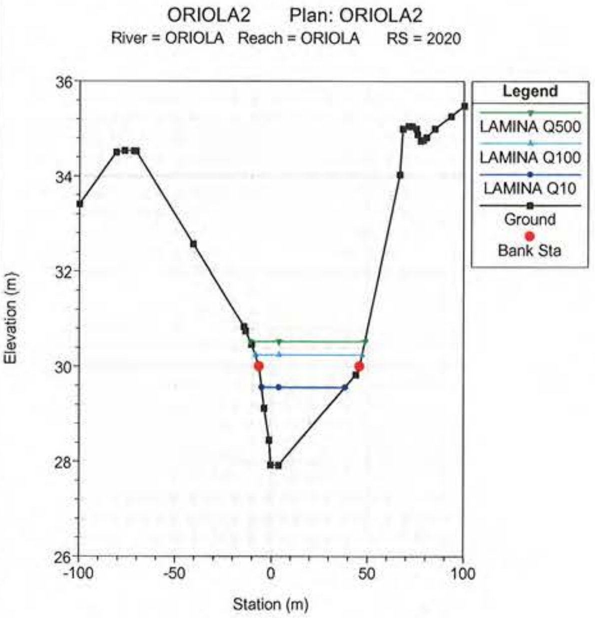

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2035.*
Legend
LAMINA Q100
LAMINA Q500
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)



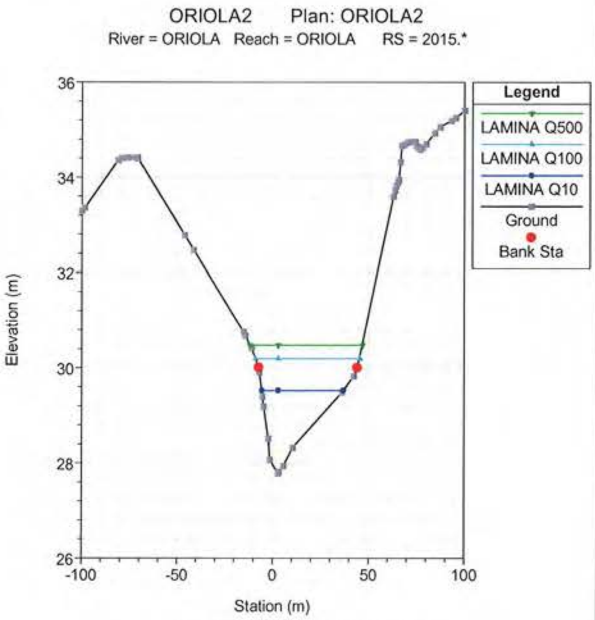
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2030.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)



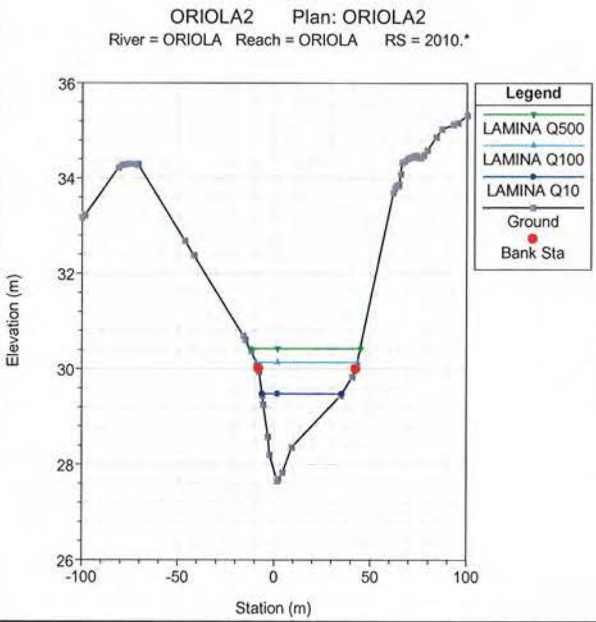
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2025.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)



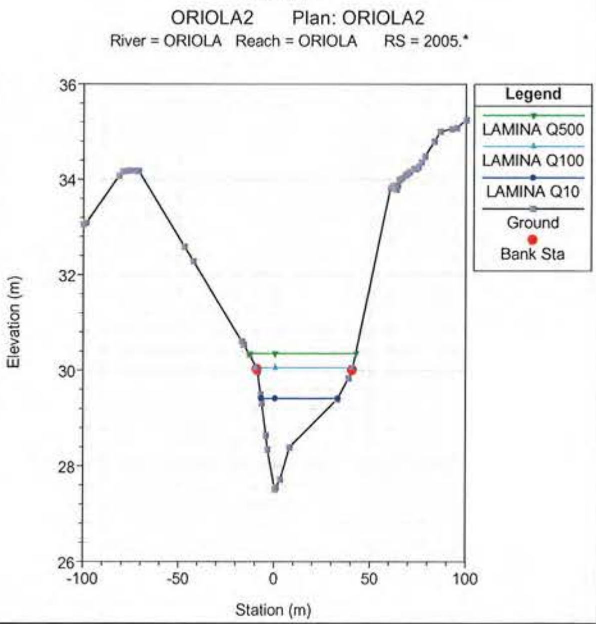
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2020
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)



ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2015.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

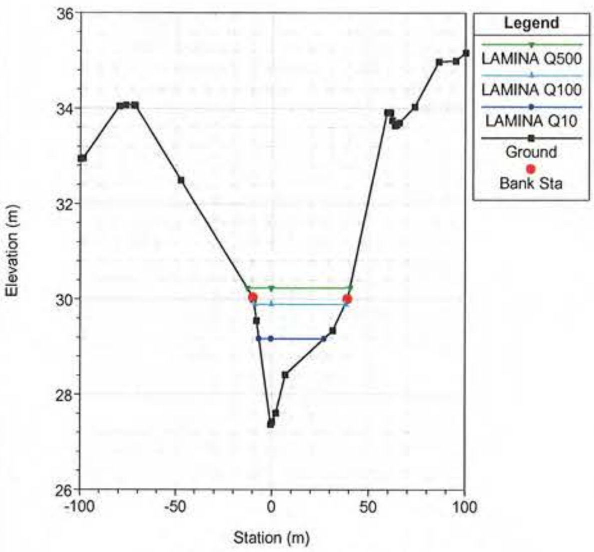


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2010.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

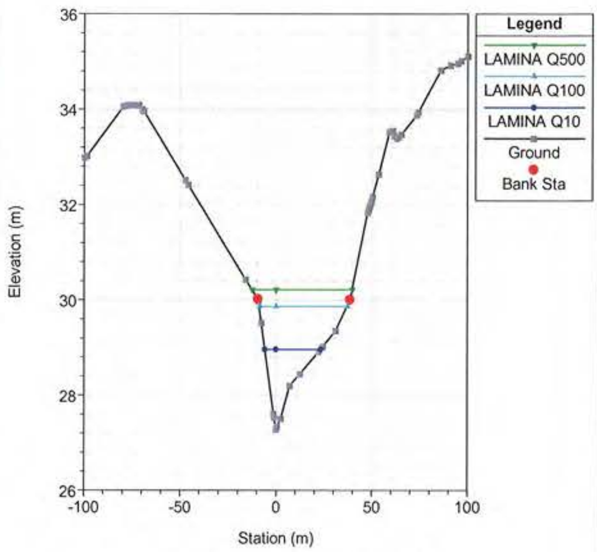


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2005.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

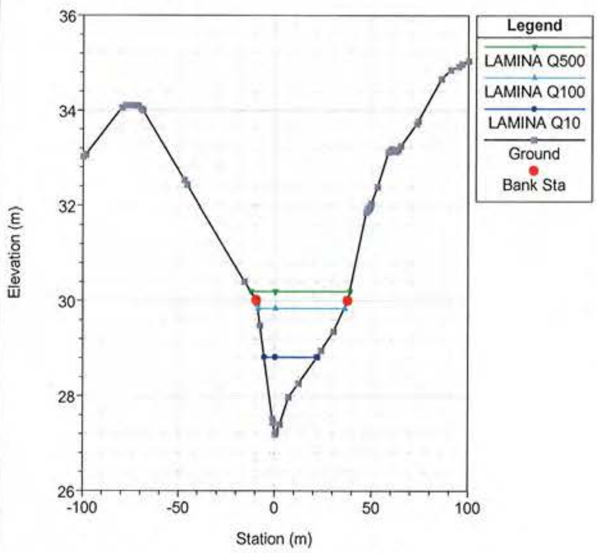
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 2000



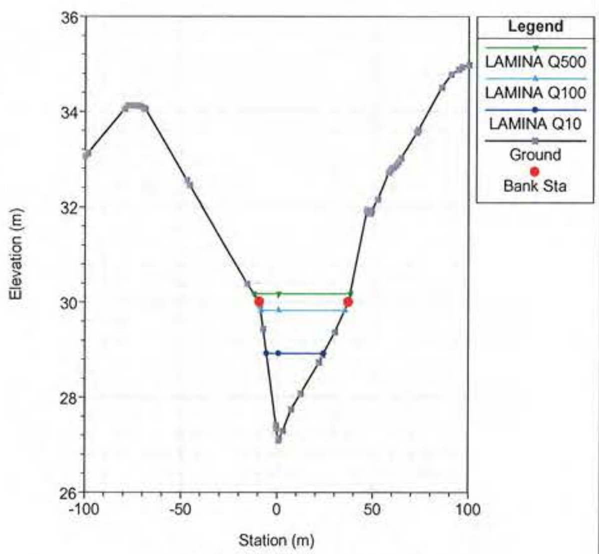
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1995.*



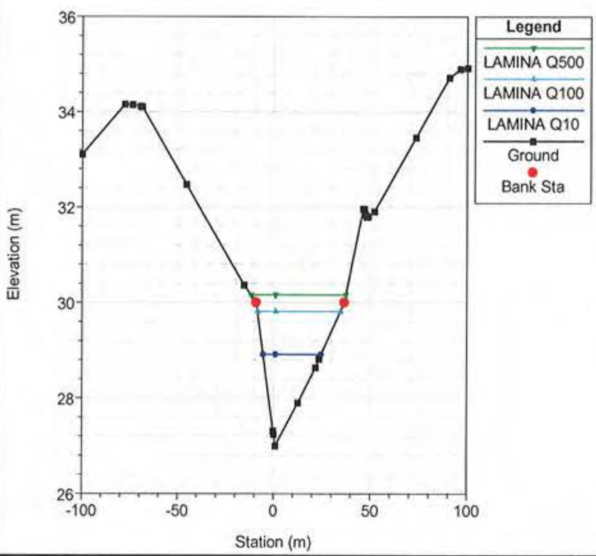
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1990.*



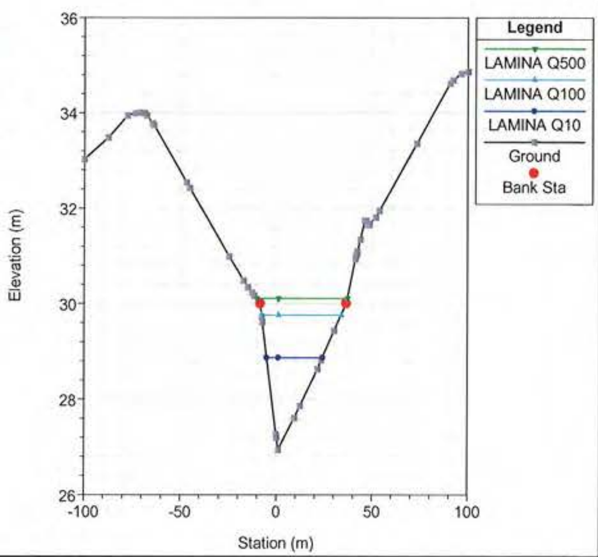
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1985.*

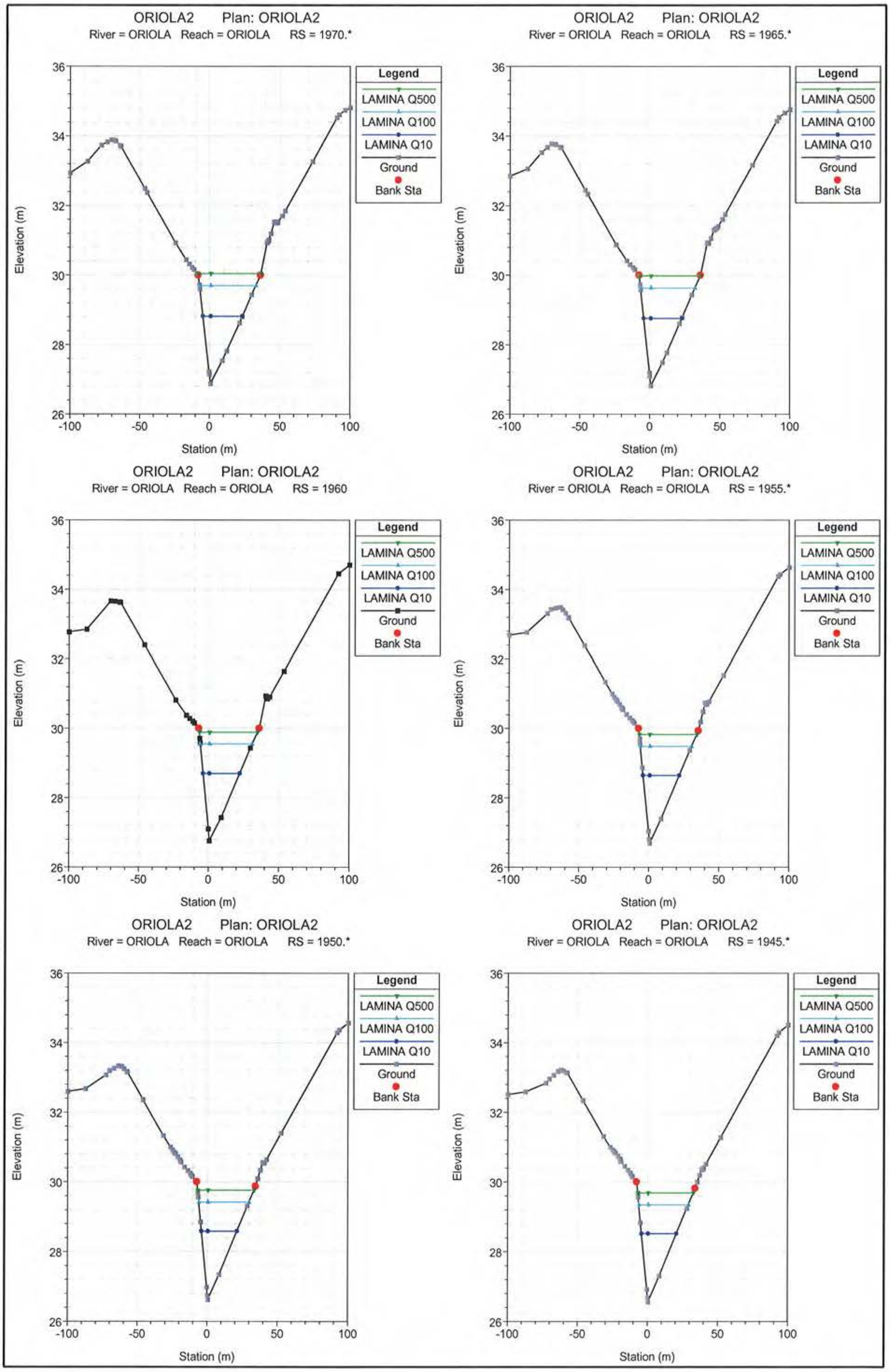


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1980

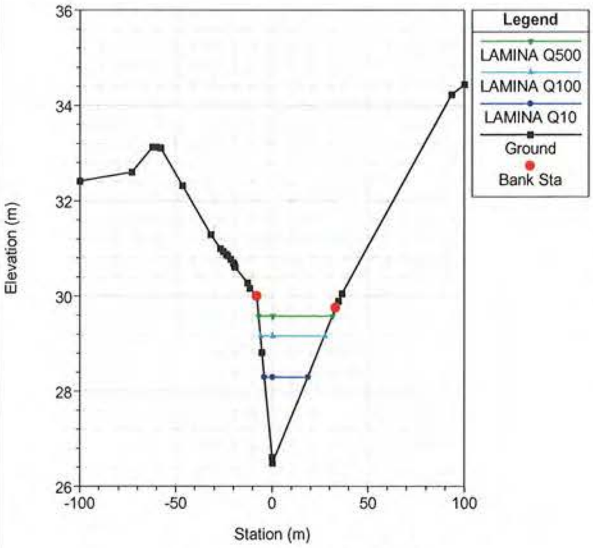


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1975.*

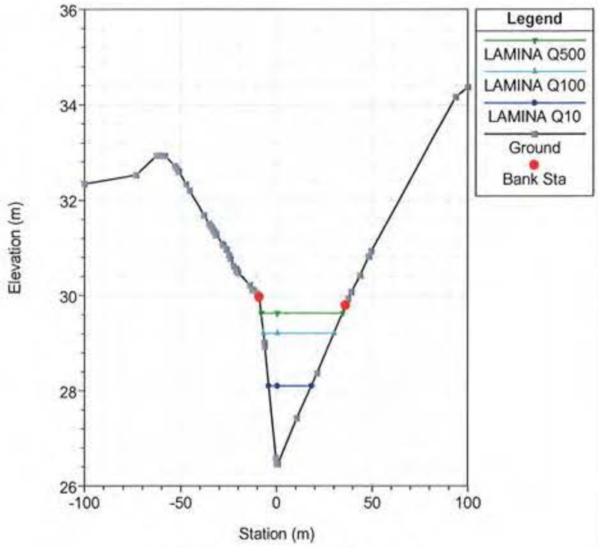



ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1970.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1965.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1960
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1955.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1950.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1945.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
36
34
32
30
28
26
-100
-50
0
50
100

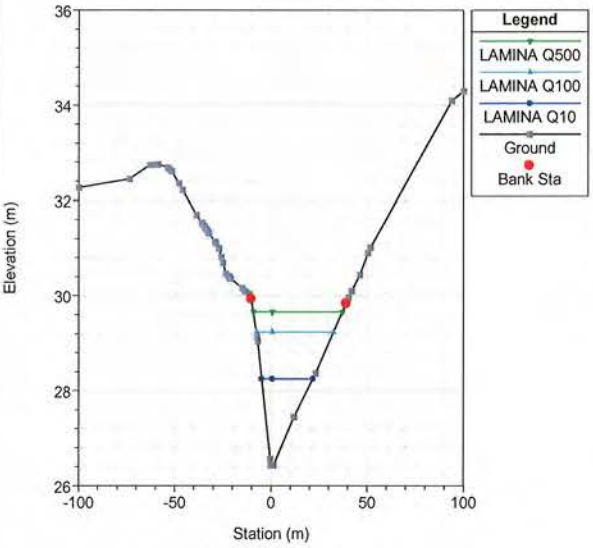
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1940



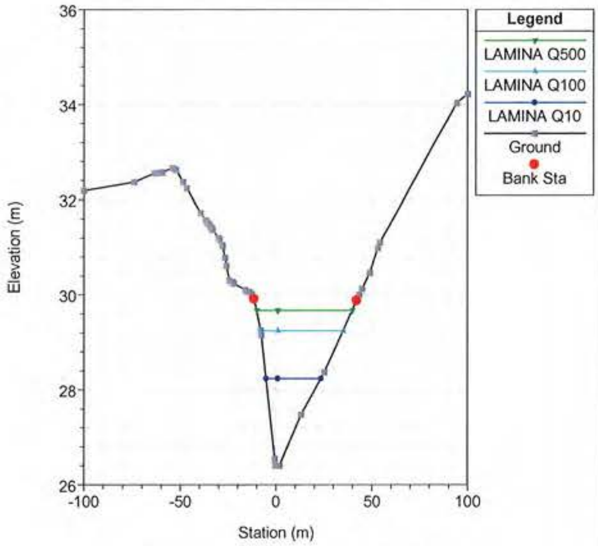
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1935.*



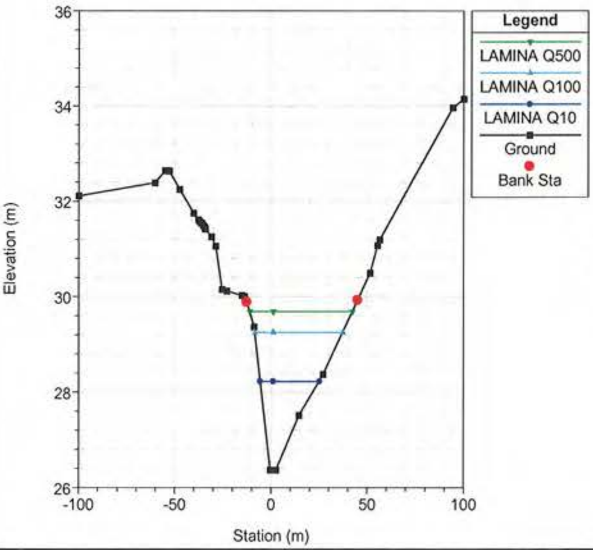
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1930.*



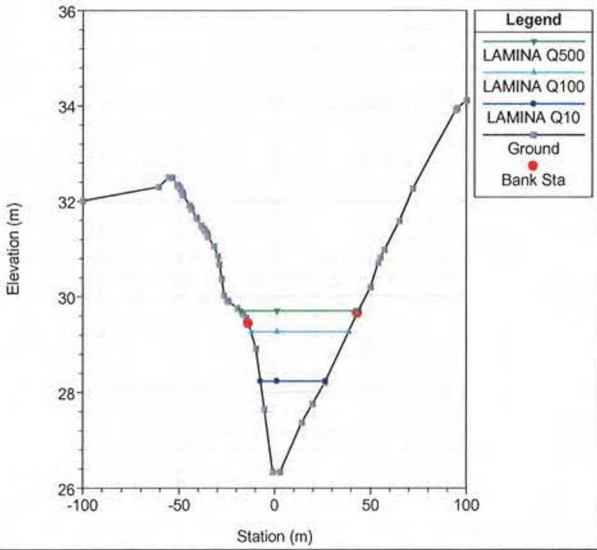
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1925.*

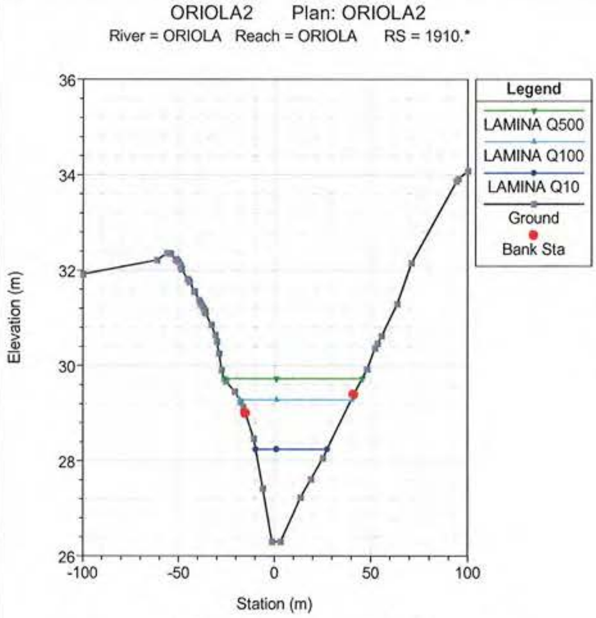


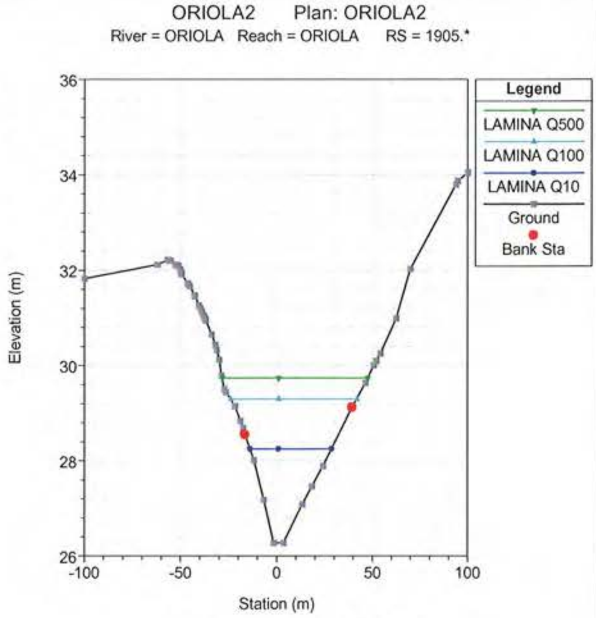
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1920

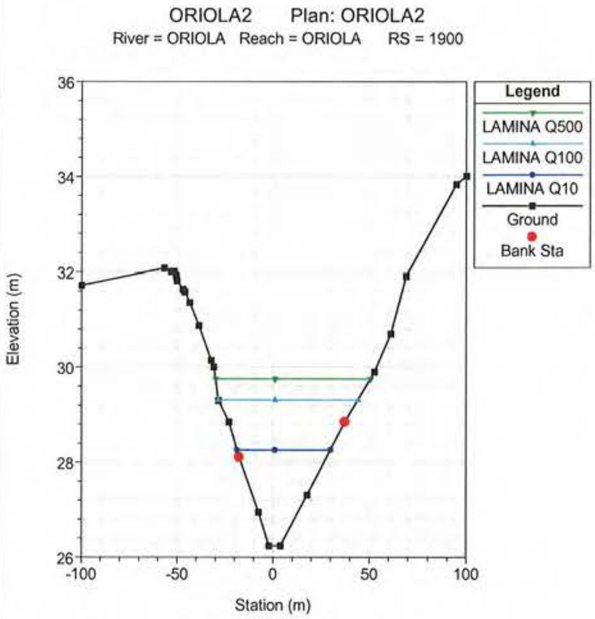


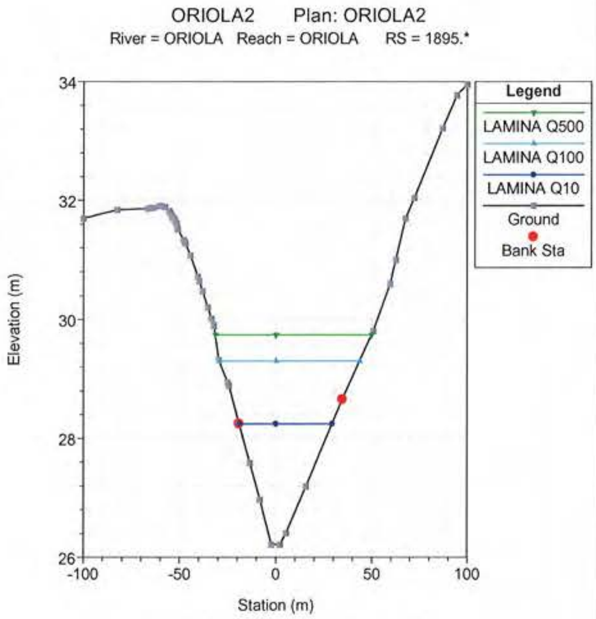
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1915.*

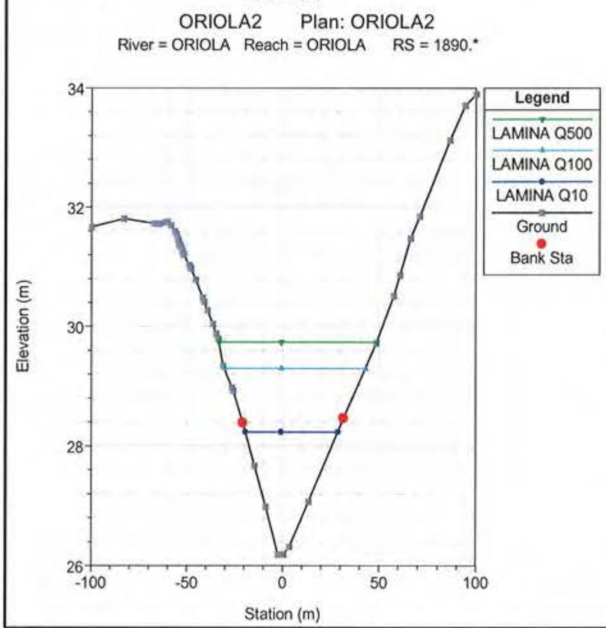


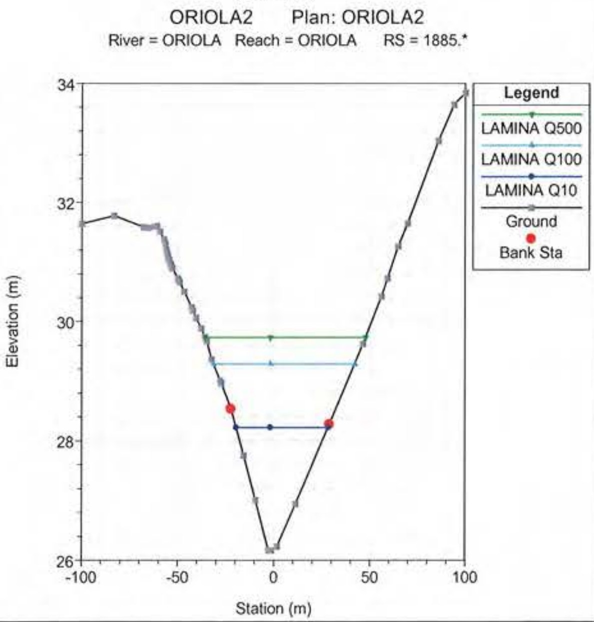

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1910.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
36
34
32
30
28
26
-100
-50
0
50
100

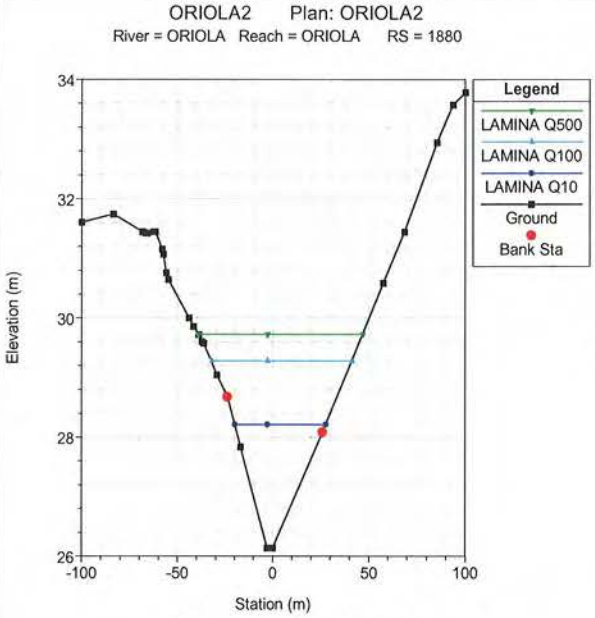

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1905.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
36
34
32
30
28
26
-100
-50
0
50
100

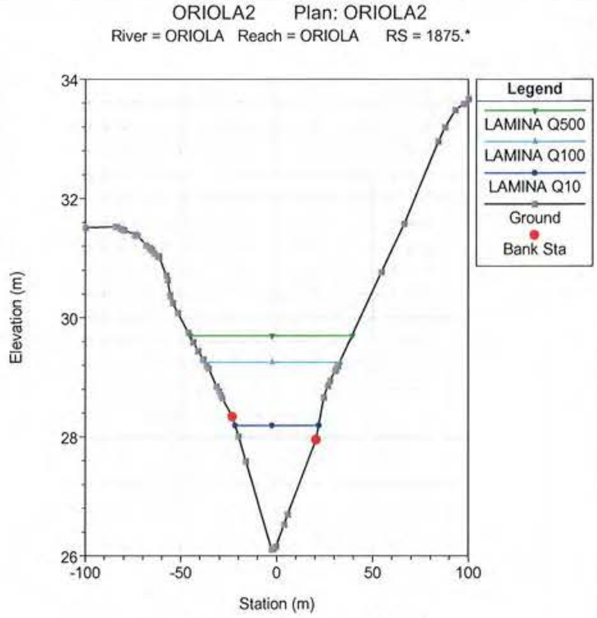

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1900
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
36
34
32
30
28
26
-100
-50
0
50
100

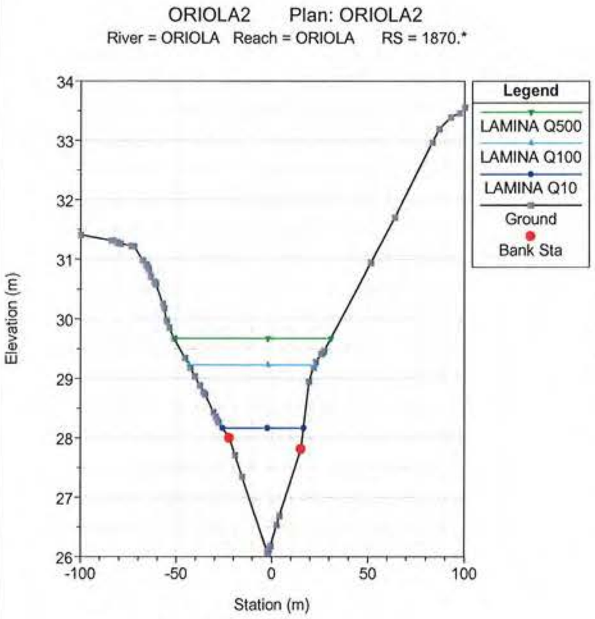

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1895.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
34
32
30
28
26
-100
-50
0
50
100

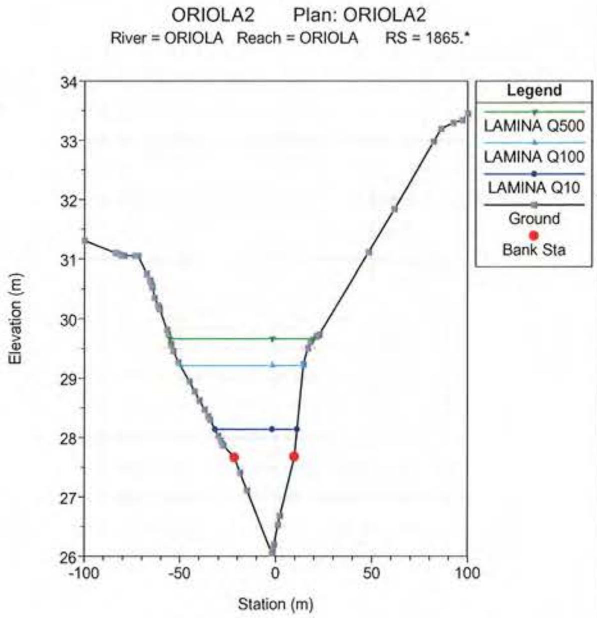

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1890.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
34
32
30
28
26
-100
-50
0
50
100

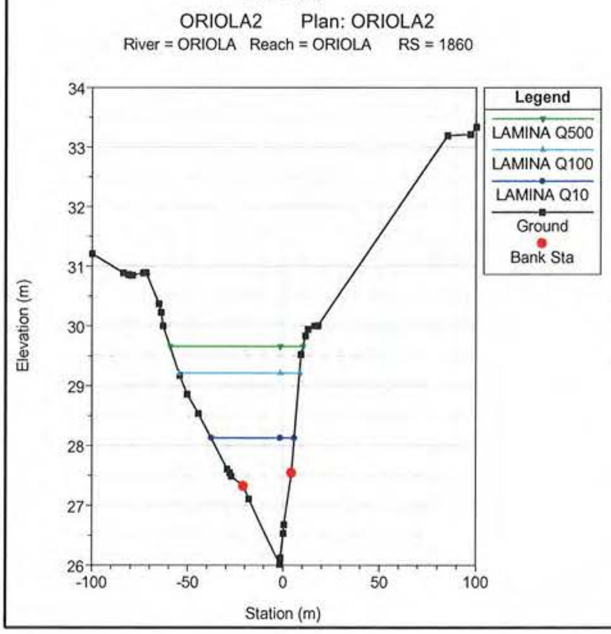

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1885.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
34
32
30
28
26
-100
-50
0
50
100

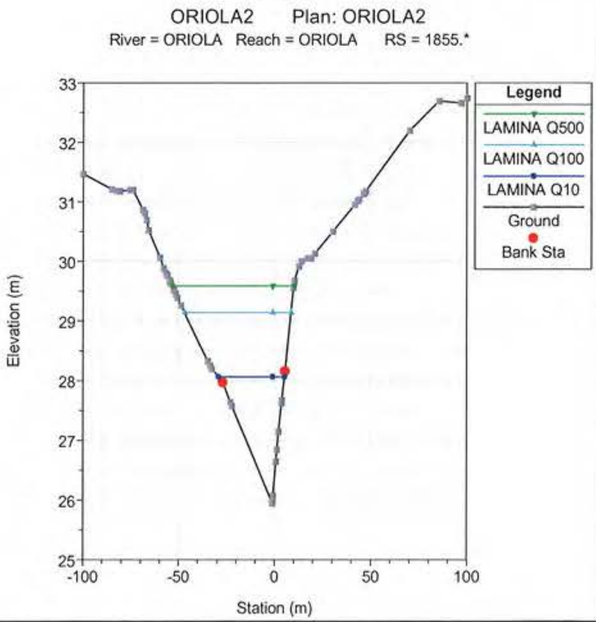

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1880
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

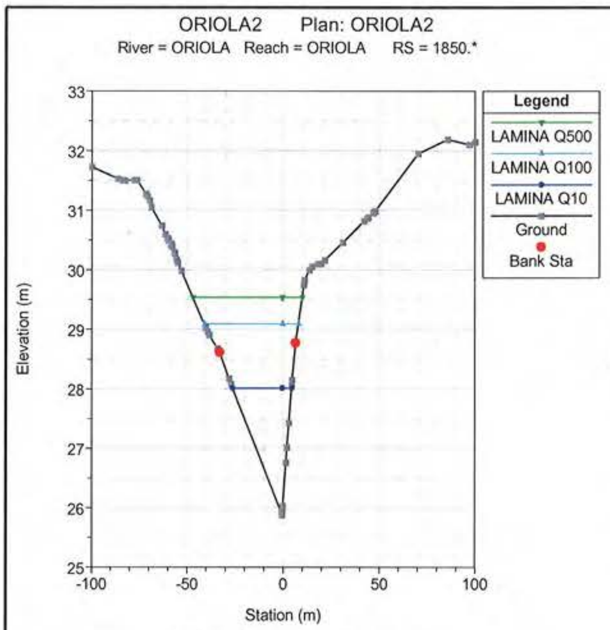

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1875.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

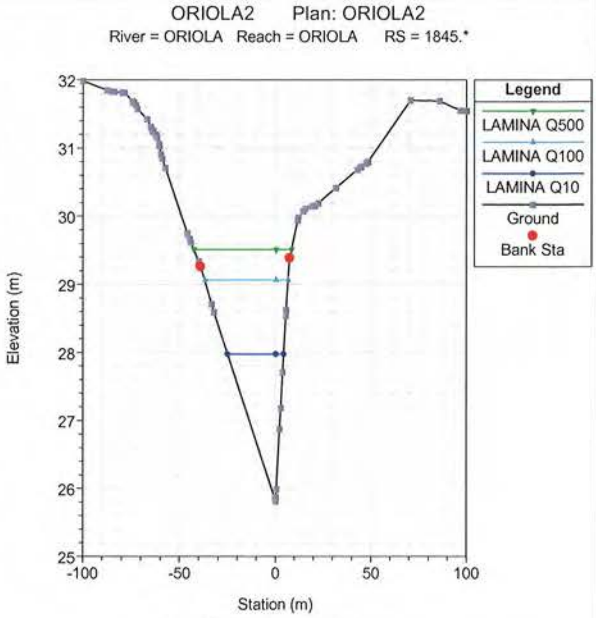

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1870.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

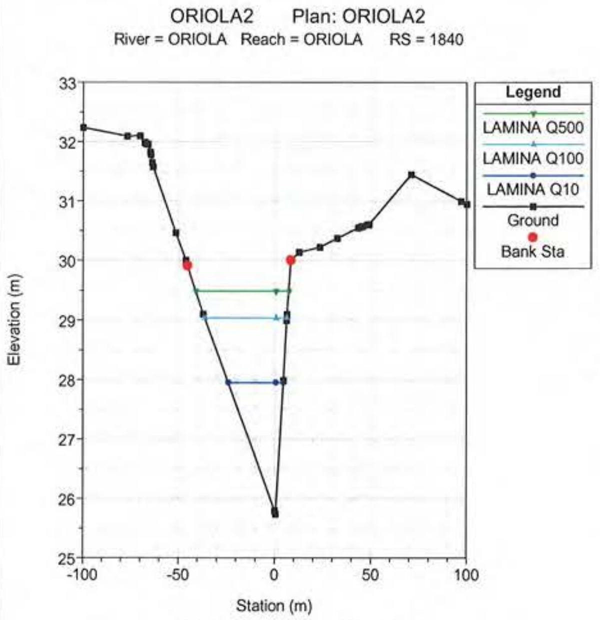

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1865.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

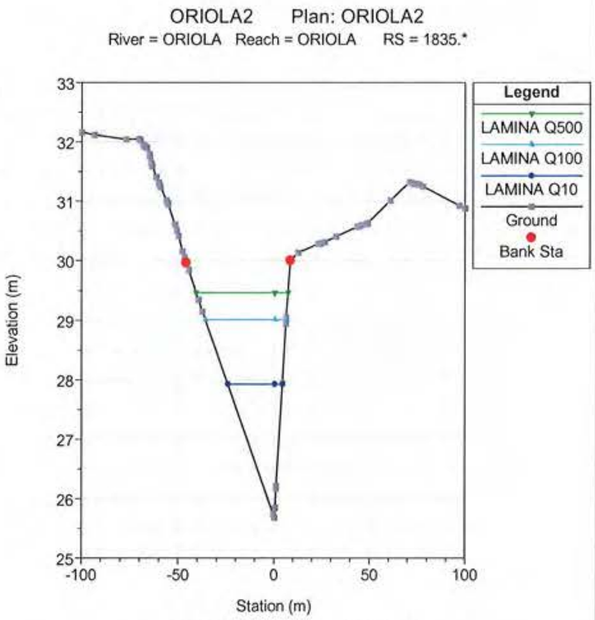

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1860
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

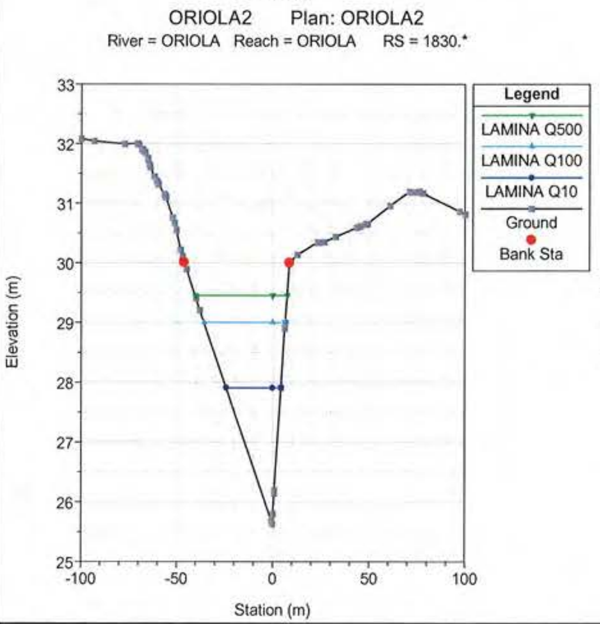

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1855.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

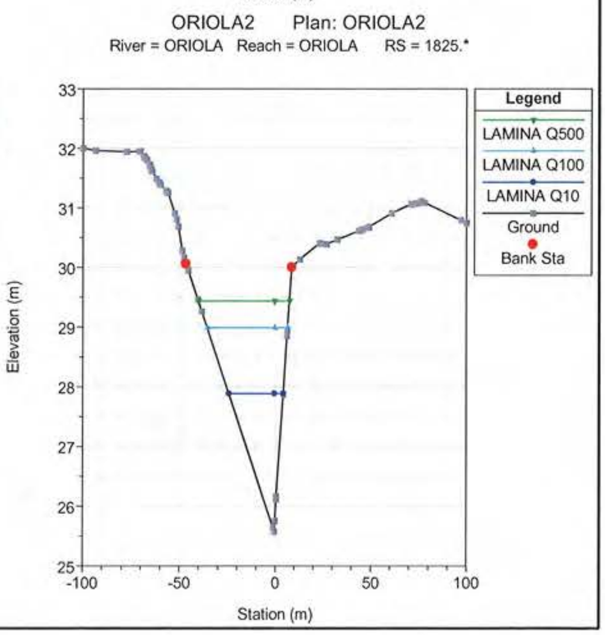

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1850.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1845.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

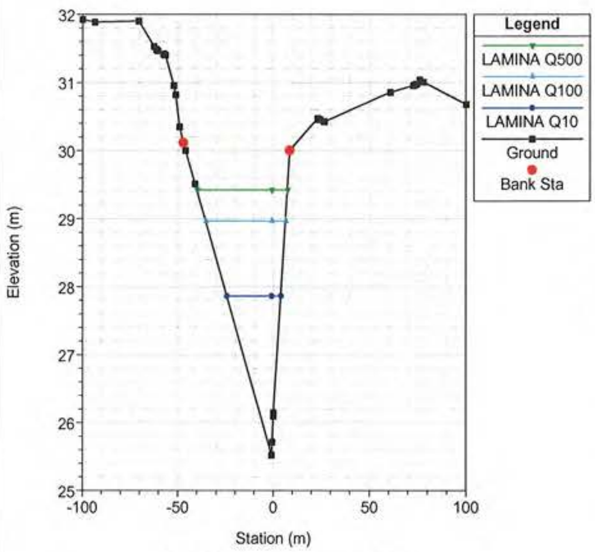

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1840
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1835.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

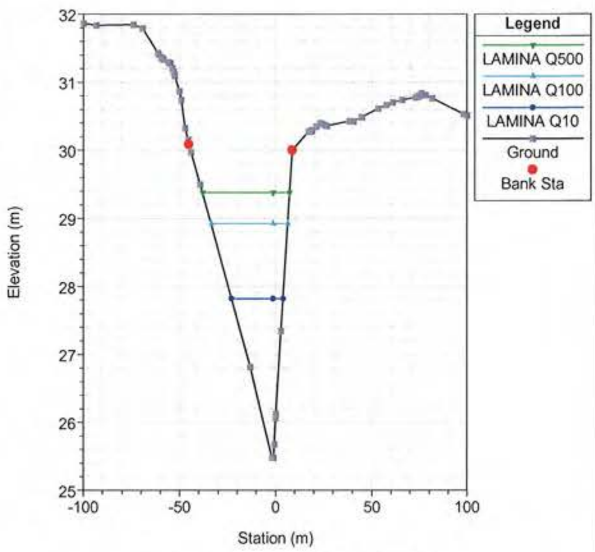

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1830.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1825.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

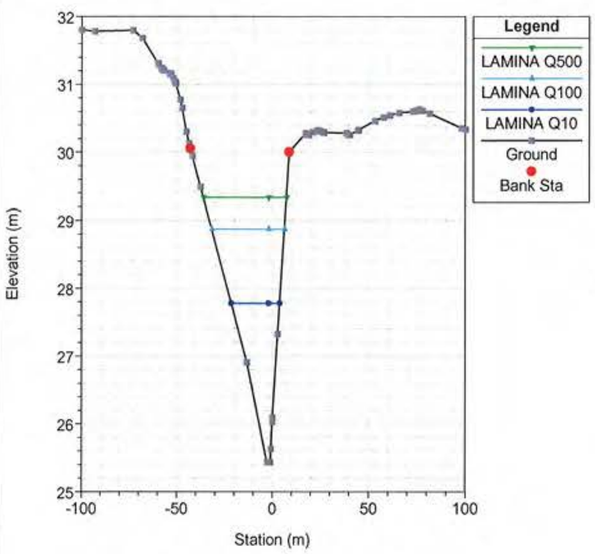
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1820



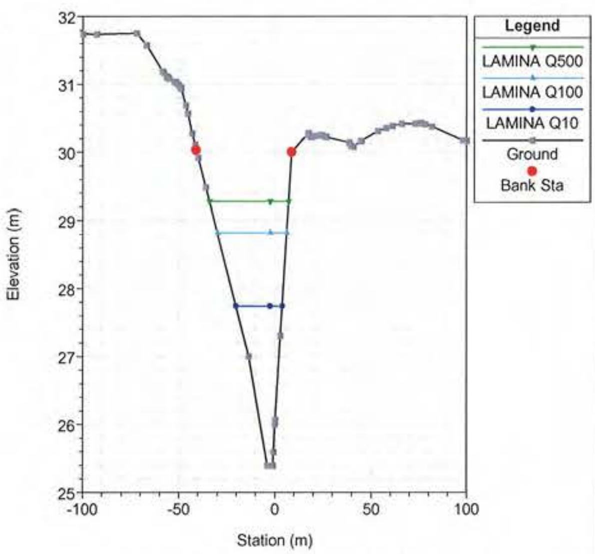
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1815.*



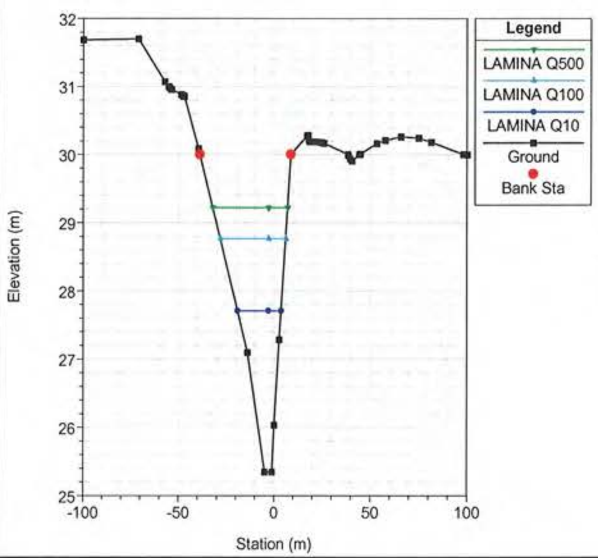
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1810.*



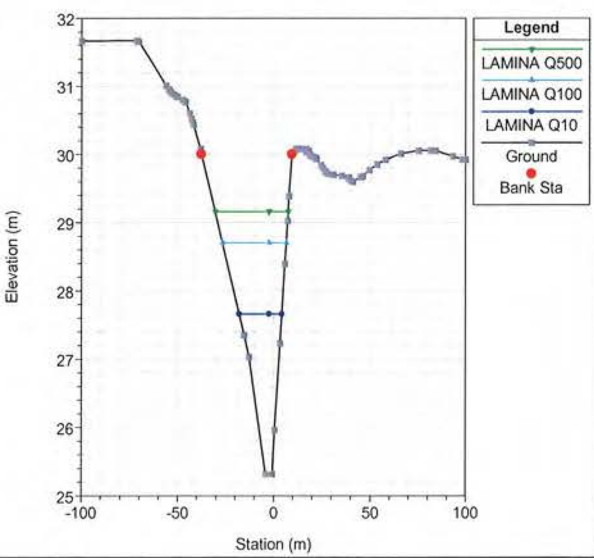
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1805.*

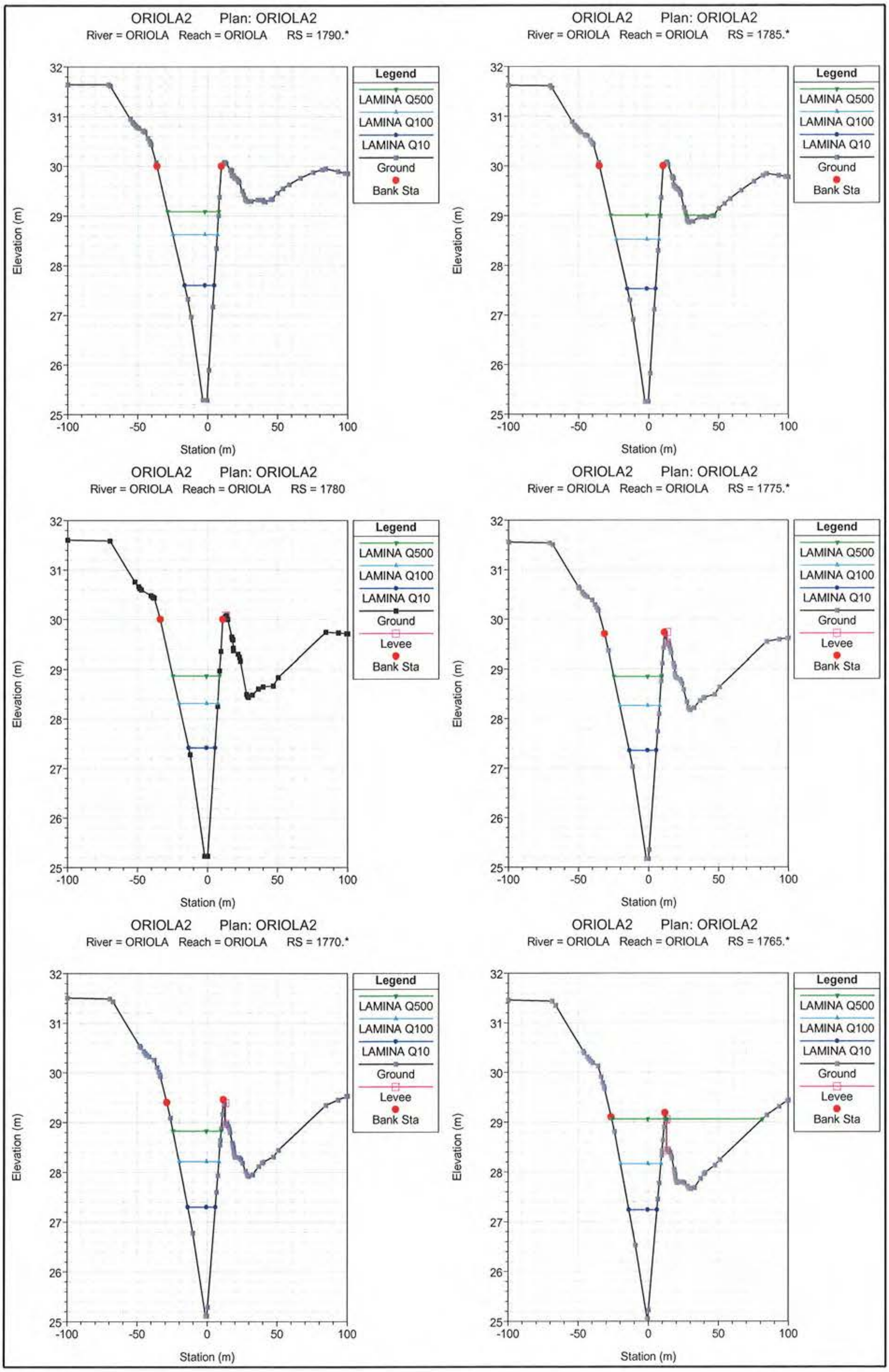


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1800



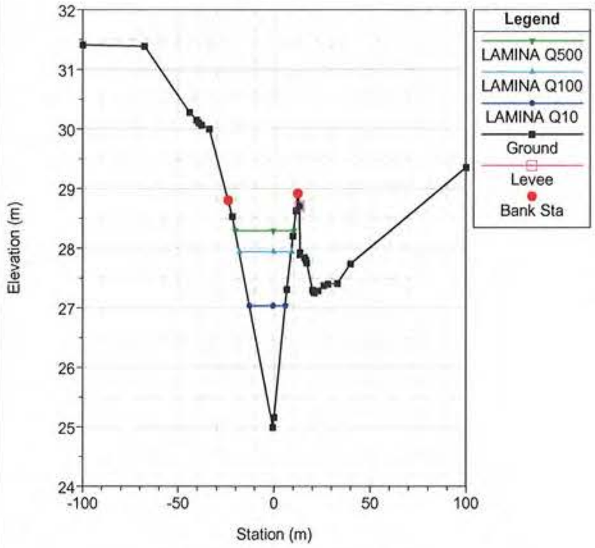
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1795.*



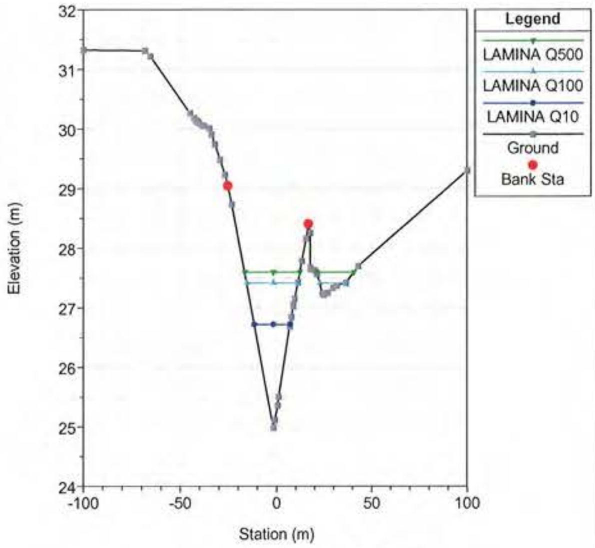


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1790.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1785.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1780
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1775.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1770.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1765.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

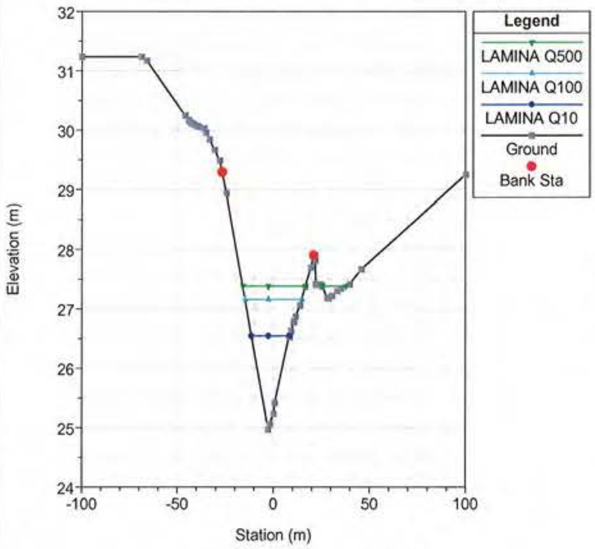
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1760



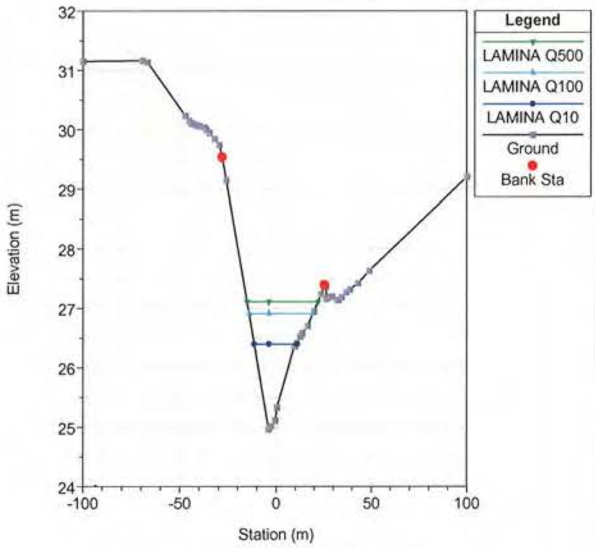
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1755.*



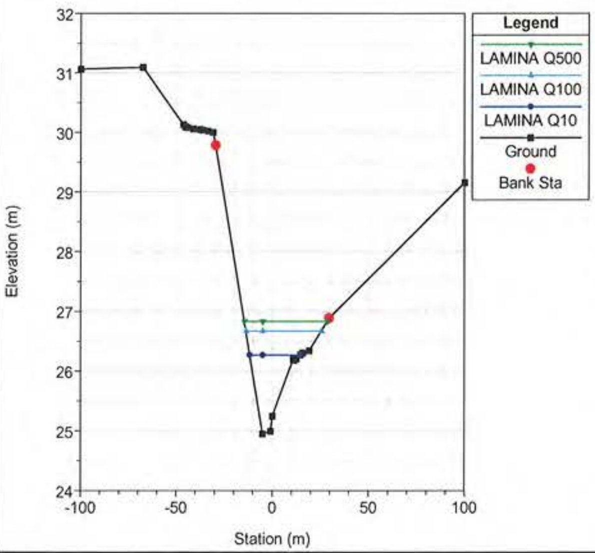
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1750.*



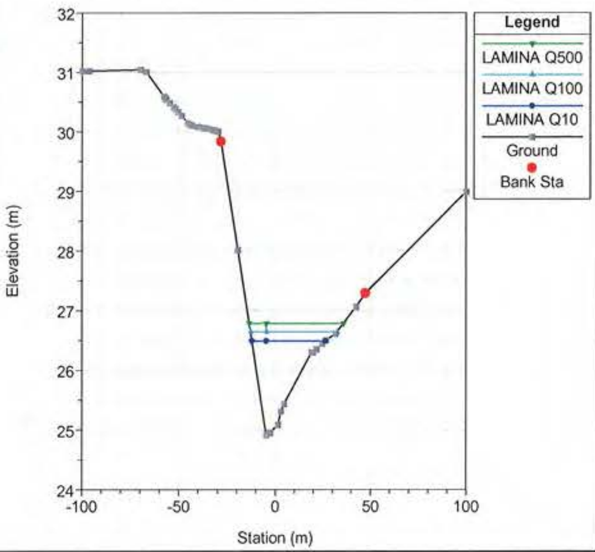
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1745.*



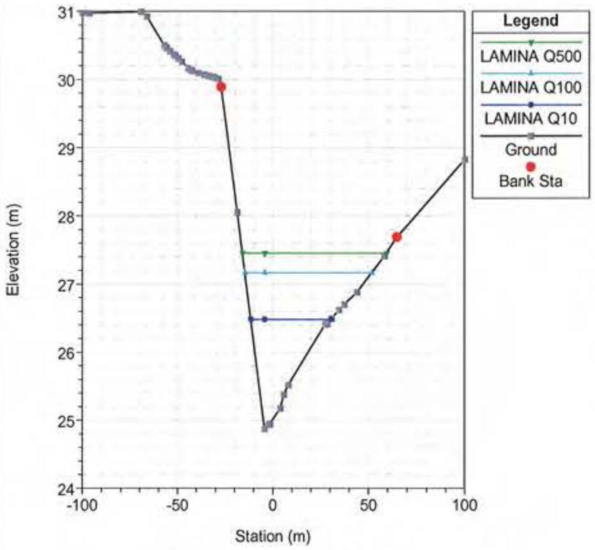
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1740



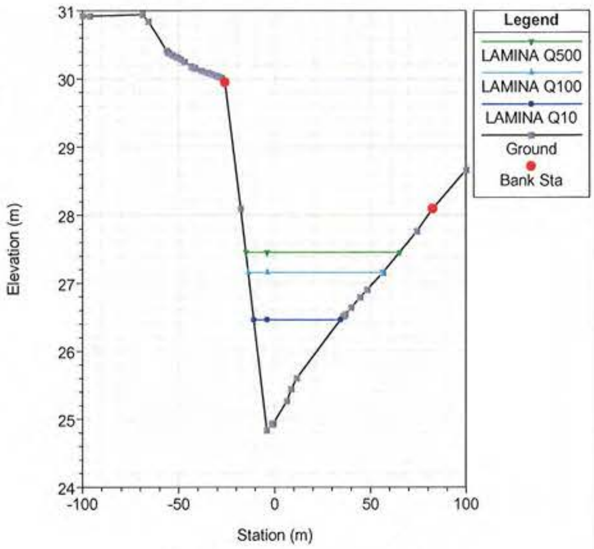
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1735.*



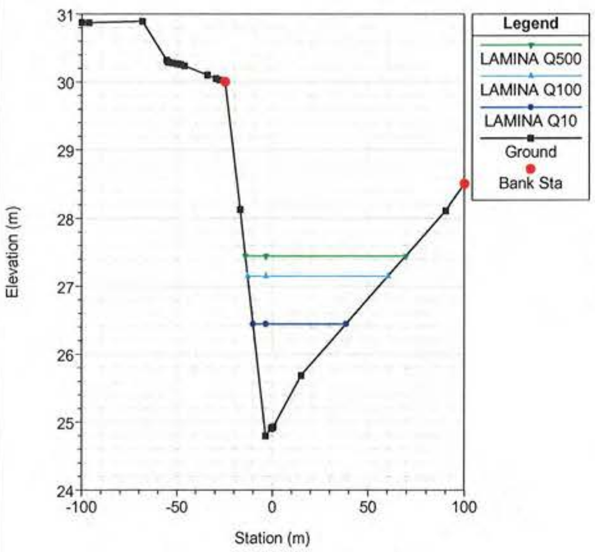
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1730.*



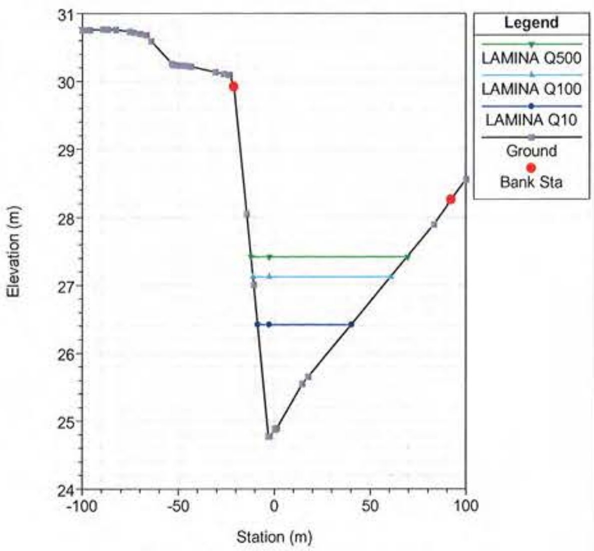
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1725.*



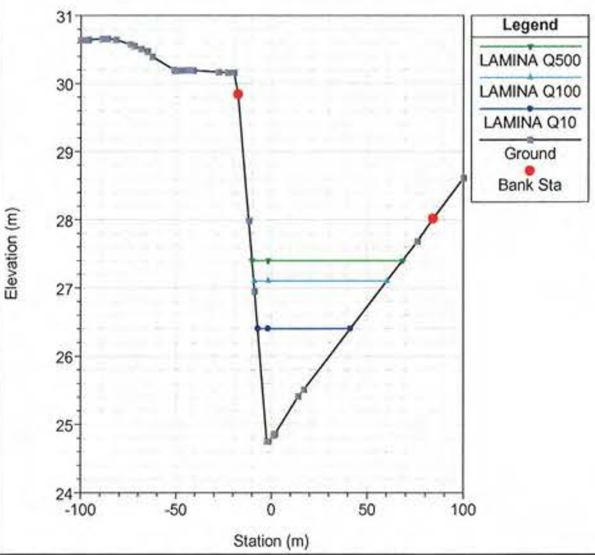
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1720



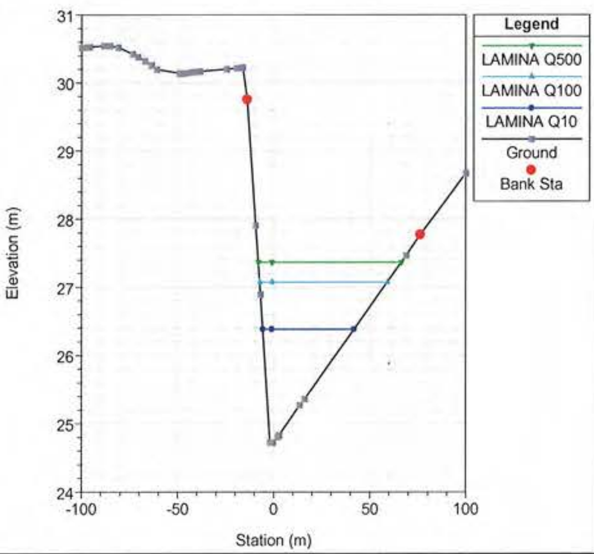
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1715.*



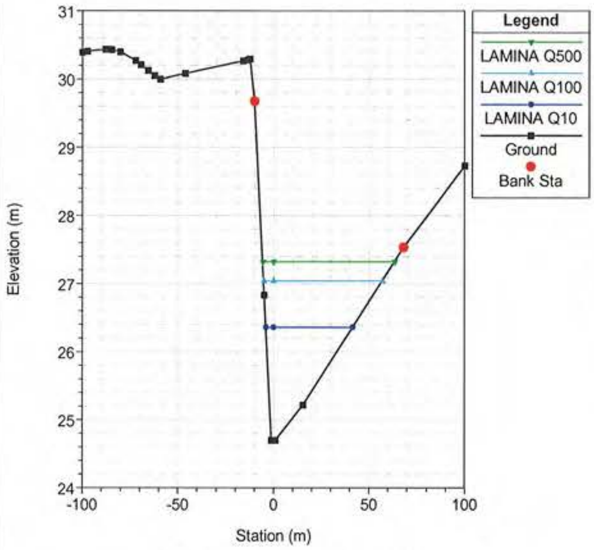
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1710.*



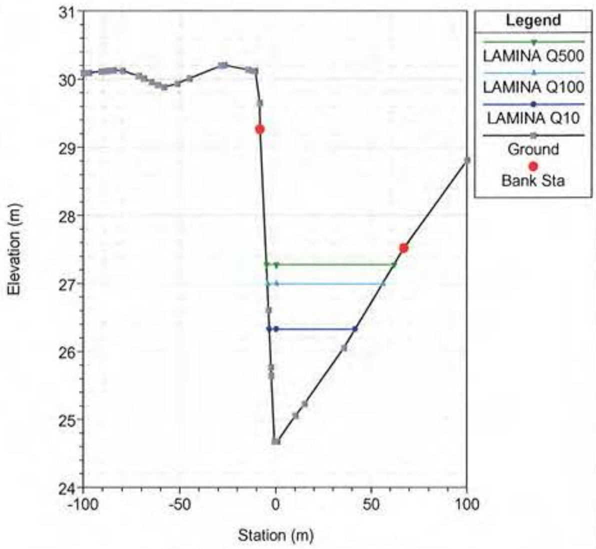
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1705.*



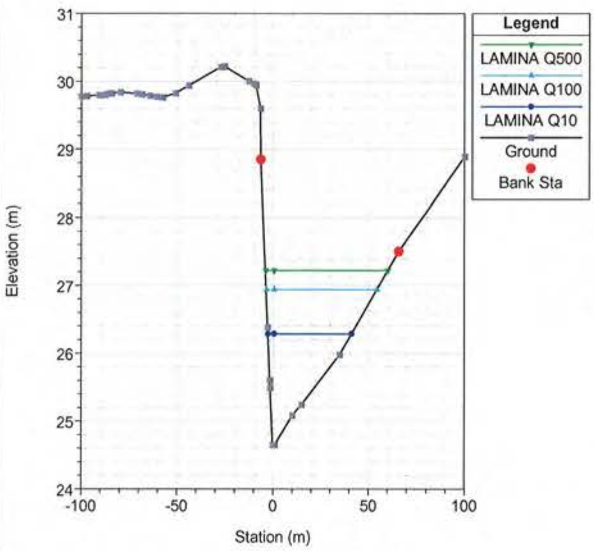
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1700



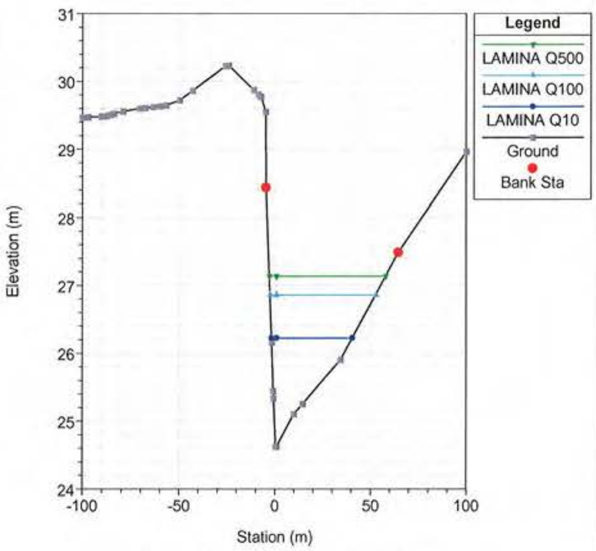
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1695.*



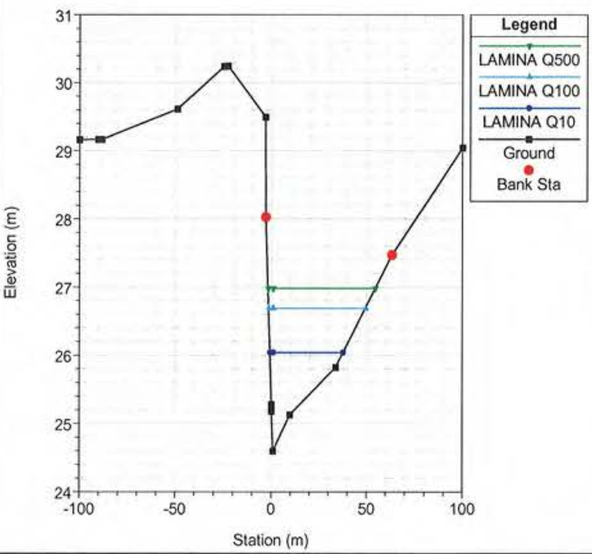
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1690.*



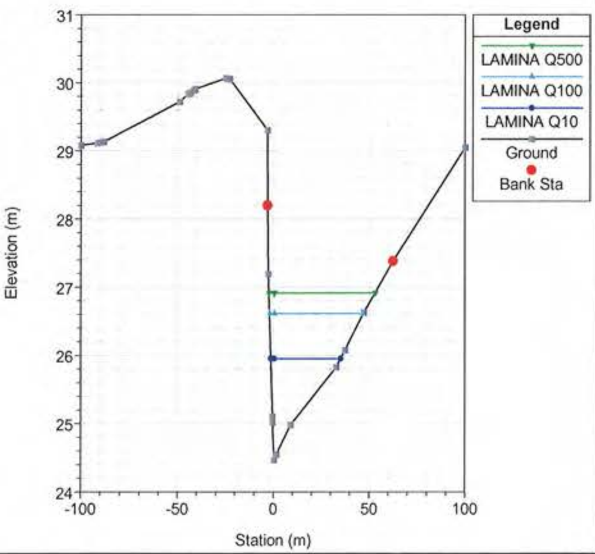
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1685.*

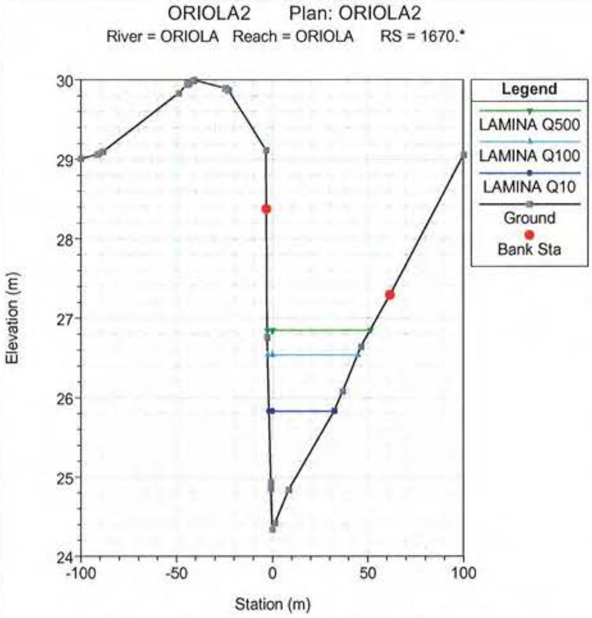


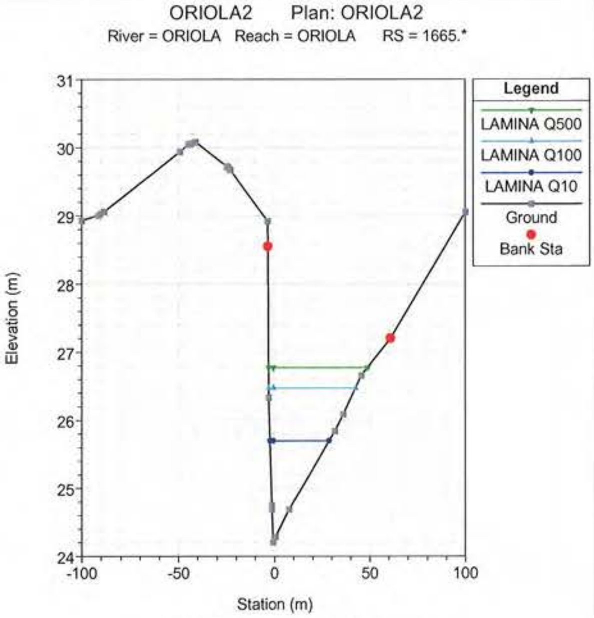
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1680

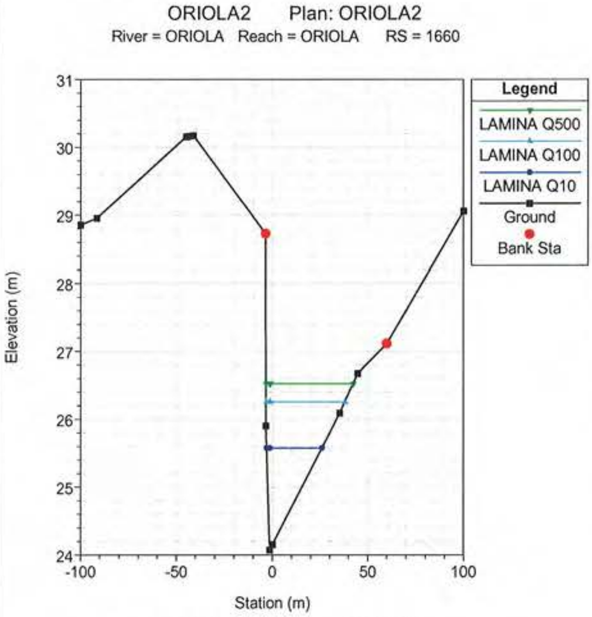


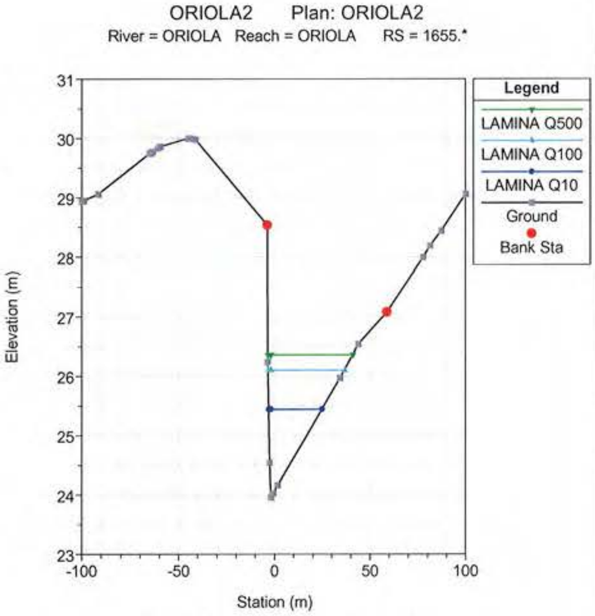
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1675.*

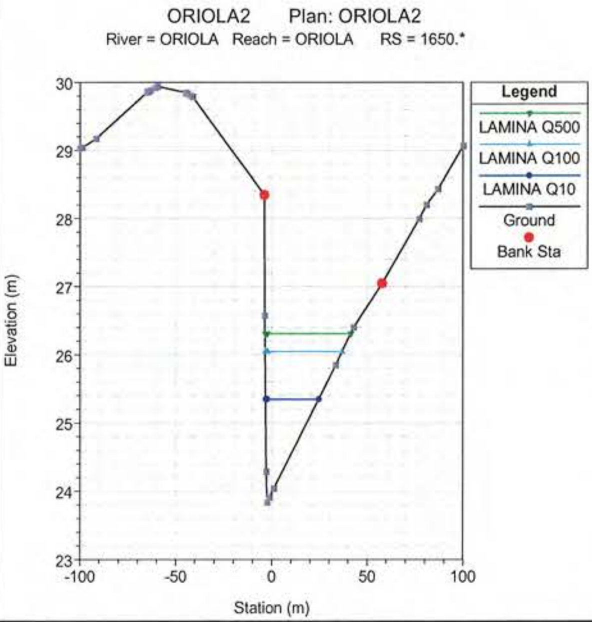


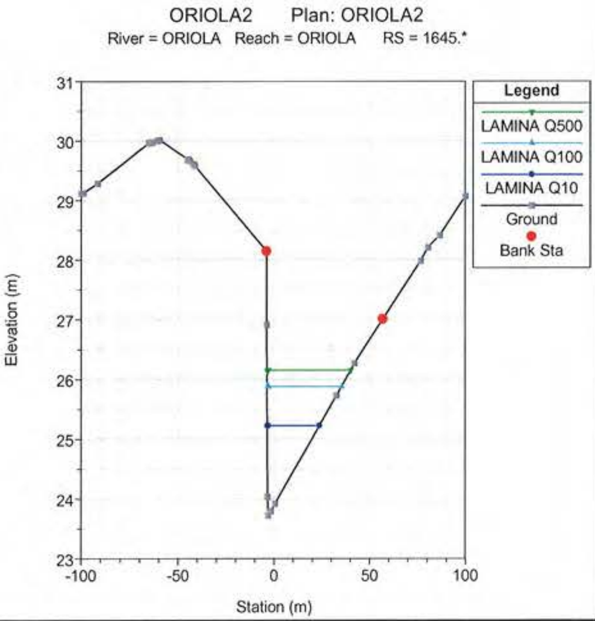

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1670.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

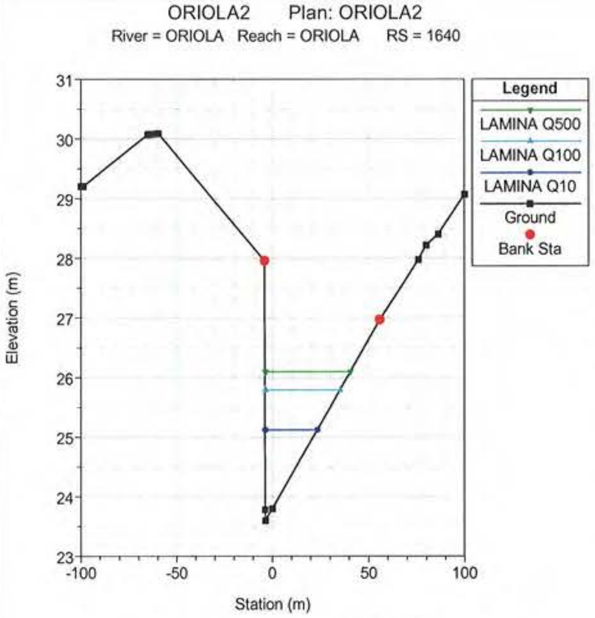

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1665.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

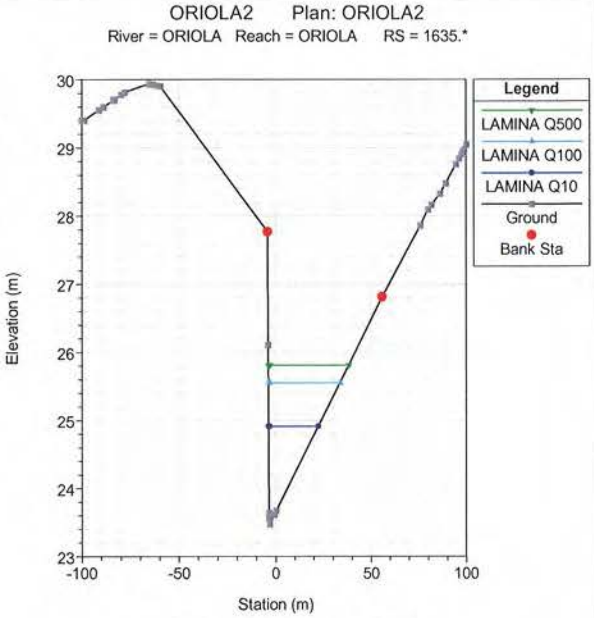

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1660
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

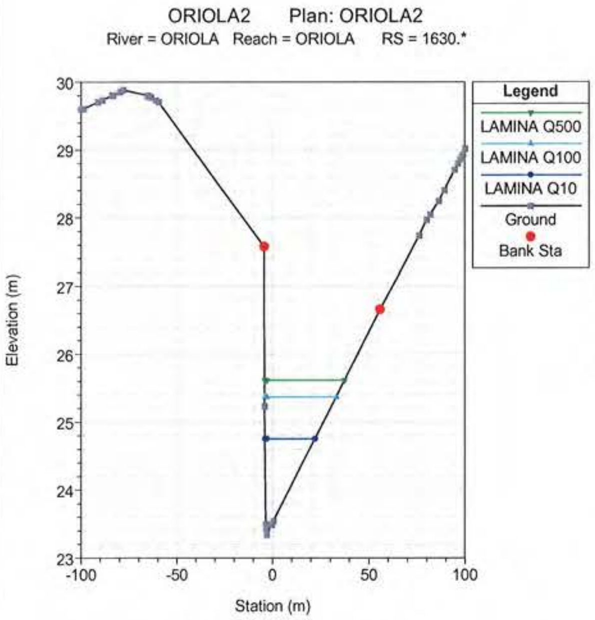

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1655.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

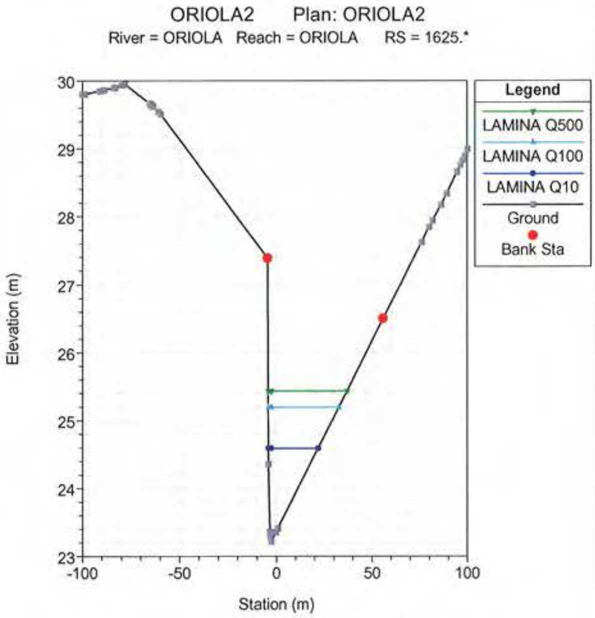

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1650.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

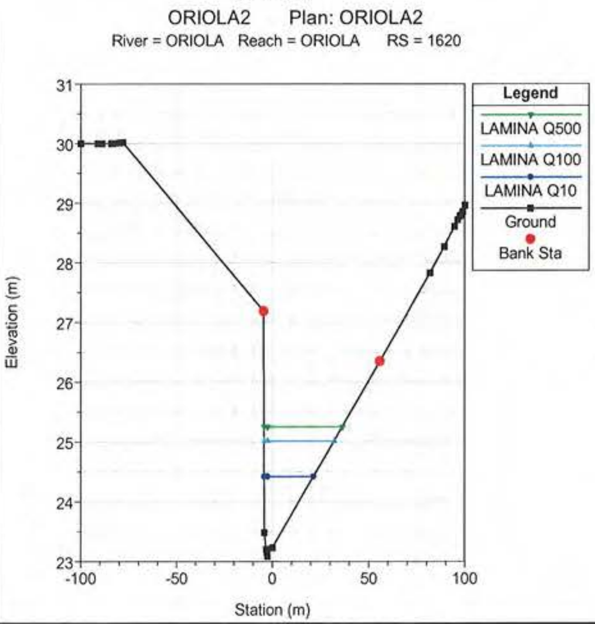

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1645.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

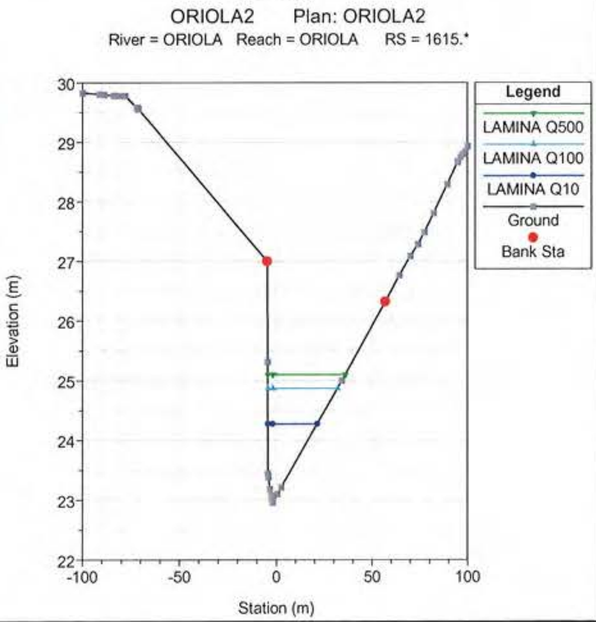

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1640
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

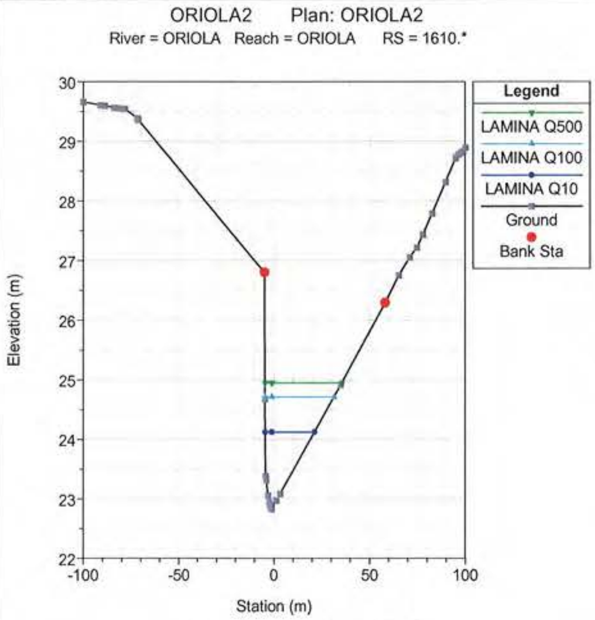

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1635.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

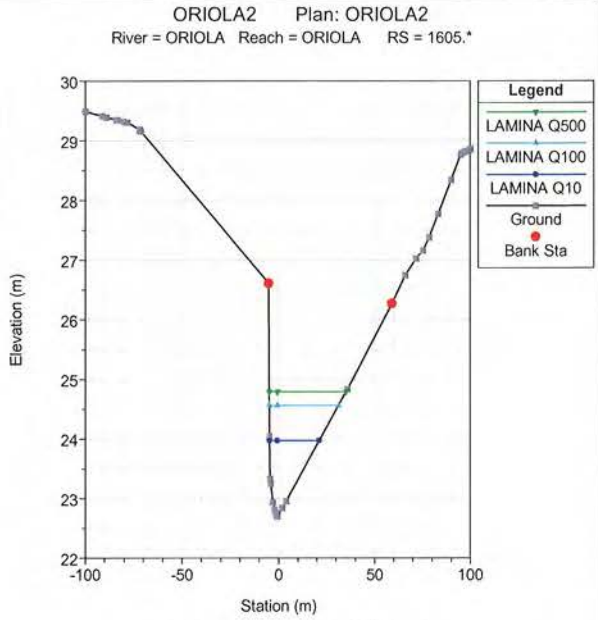

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1630.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

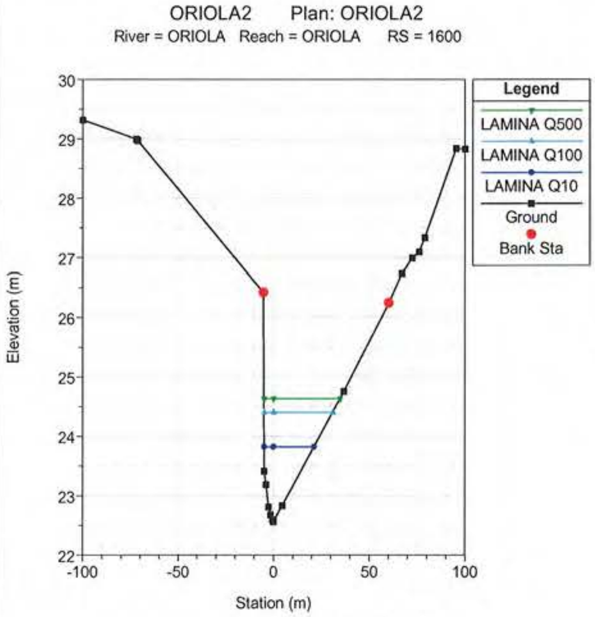

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1625.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

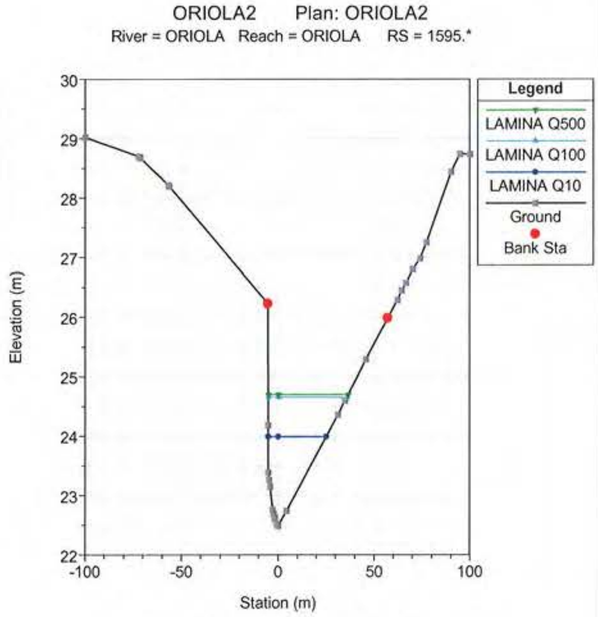

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1620
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

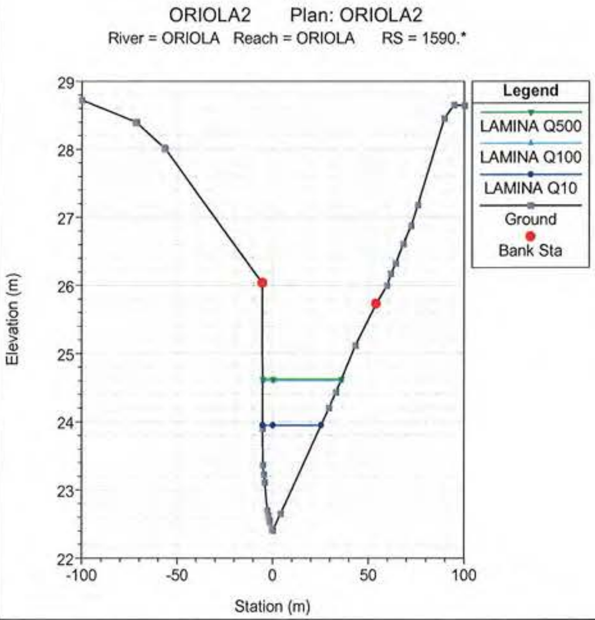

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1615.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

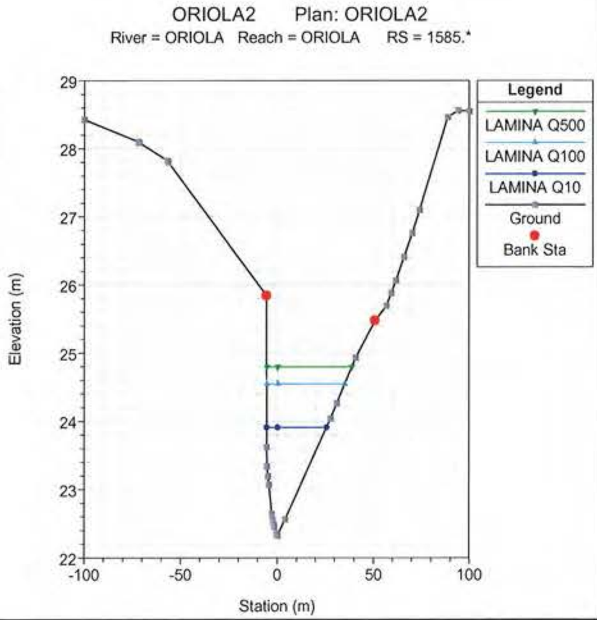

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1610.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

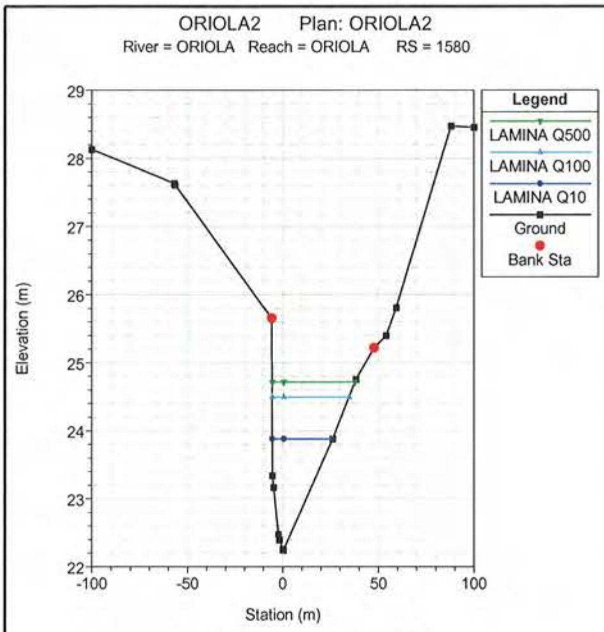

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1605.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

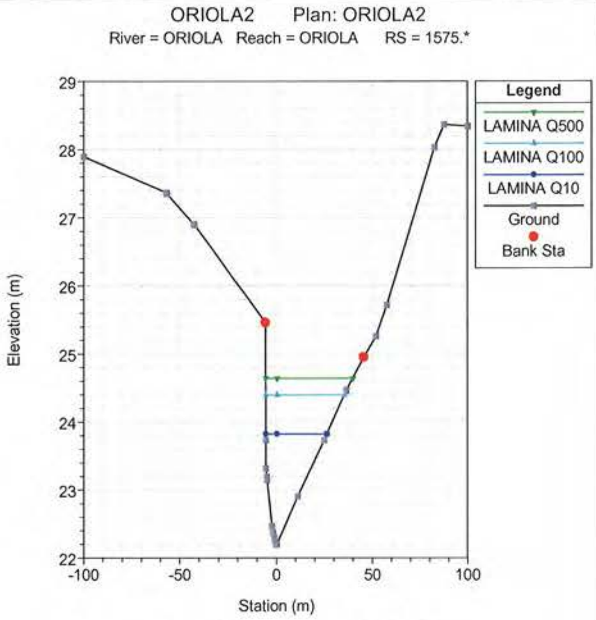

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1600
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

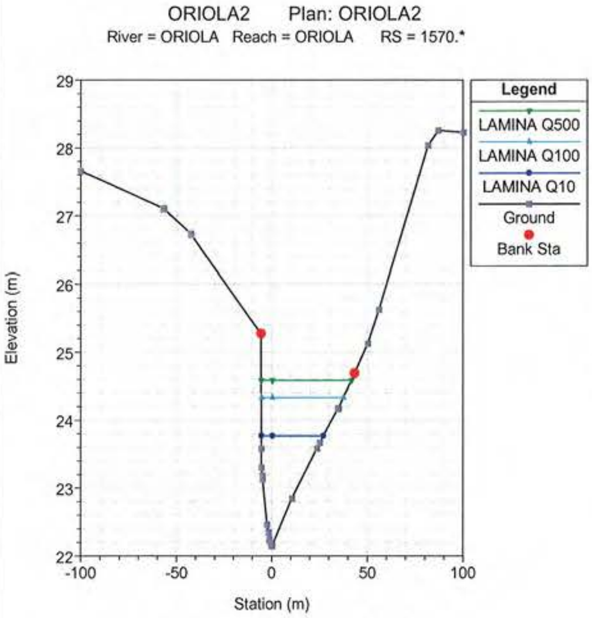

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1595.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

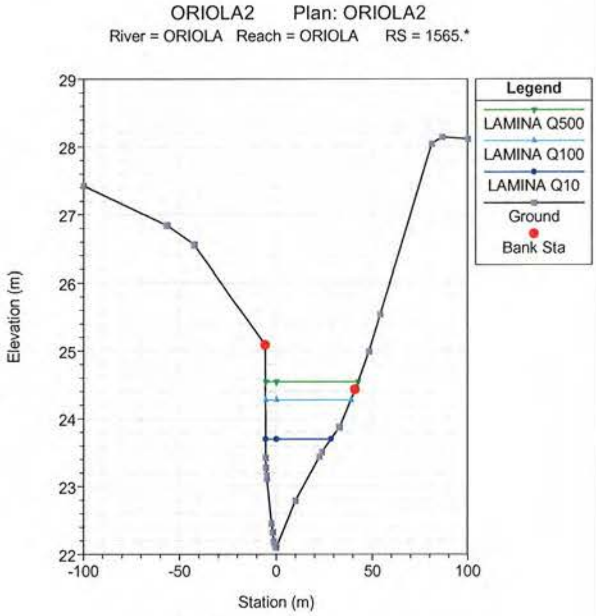

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1590.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

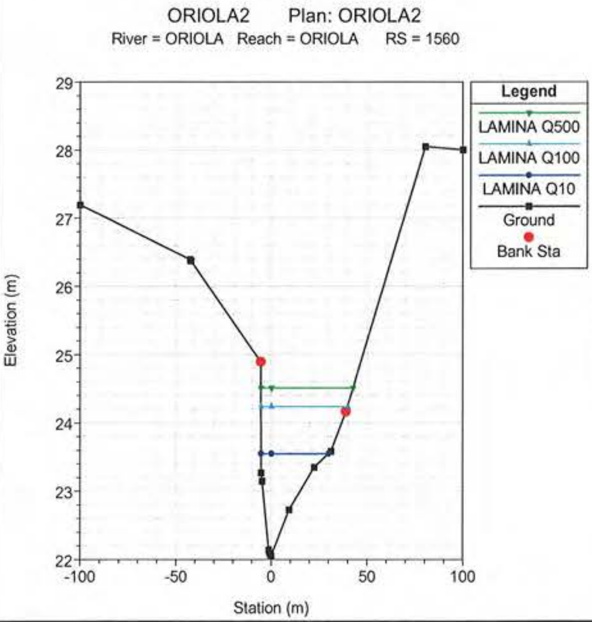

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1585.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

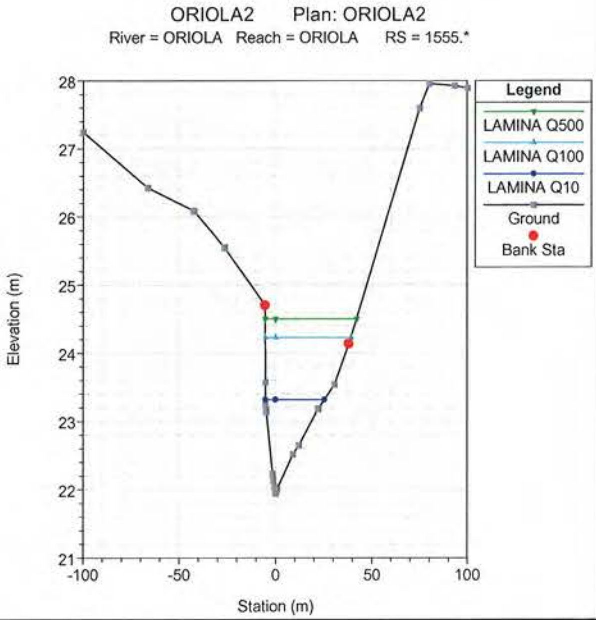

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1580
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

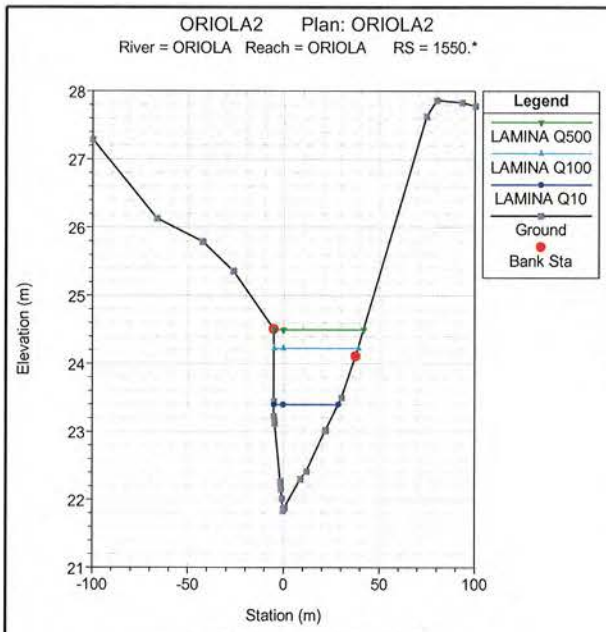

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1575.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

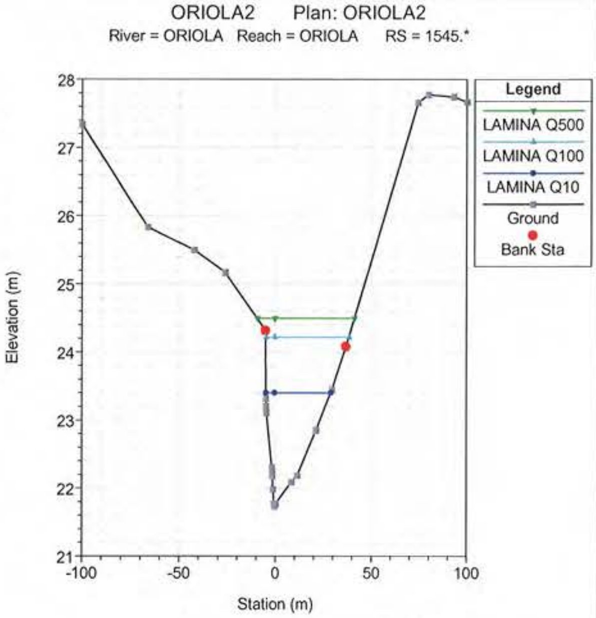

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1570.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

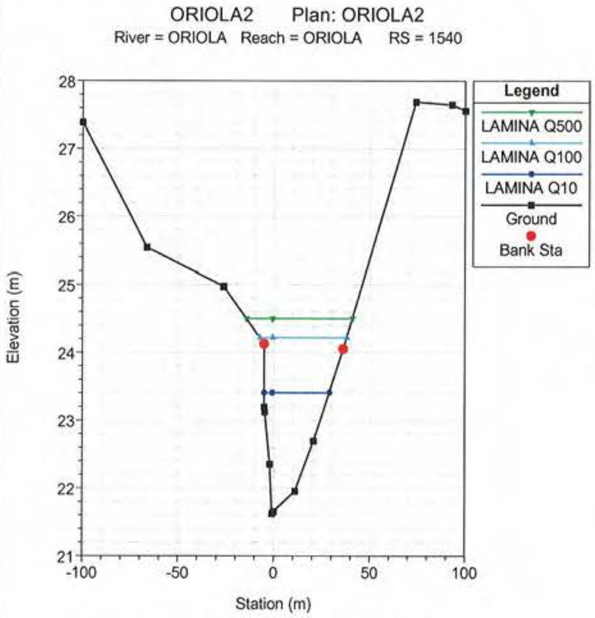

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1565.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

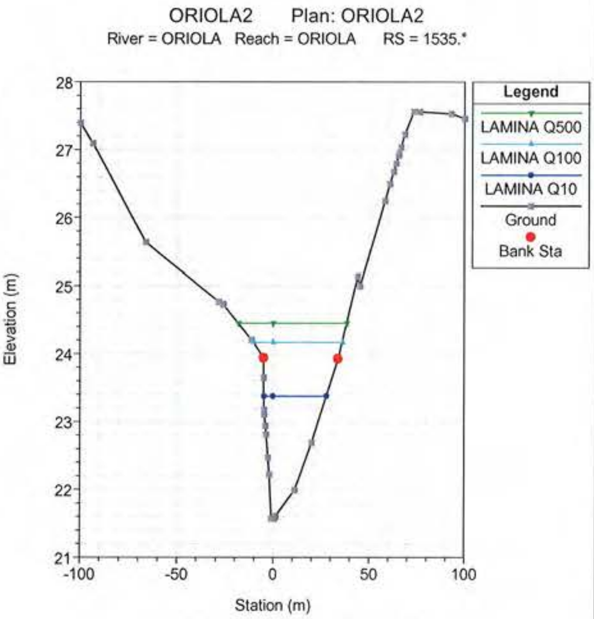

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1560
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

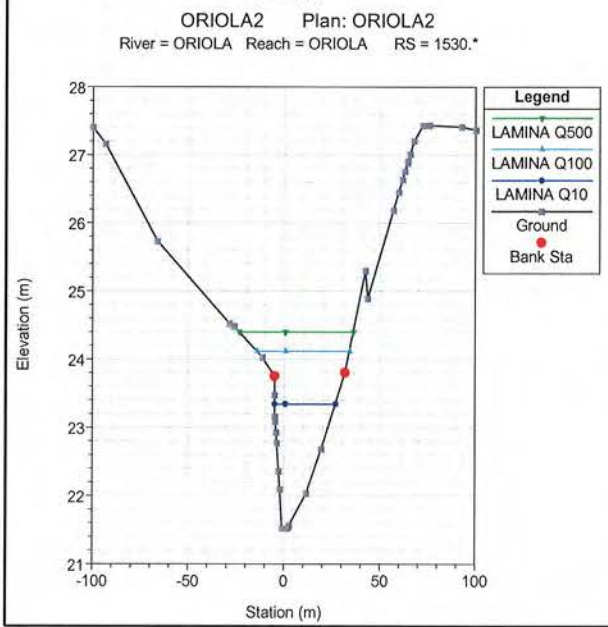

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1555.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

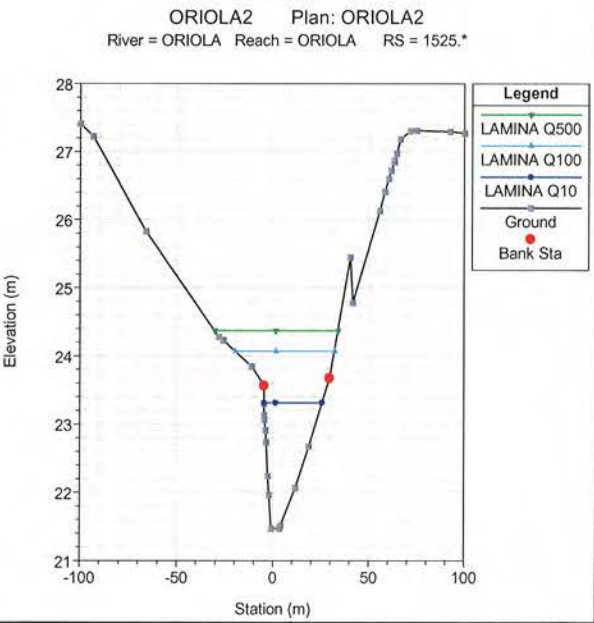

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1550.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

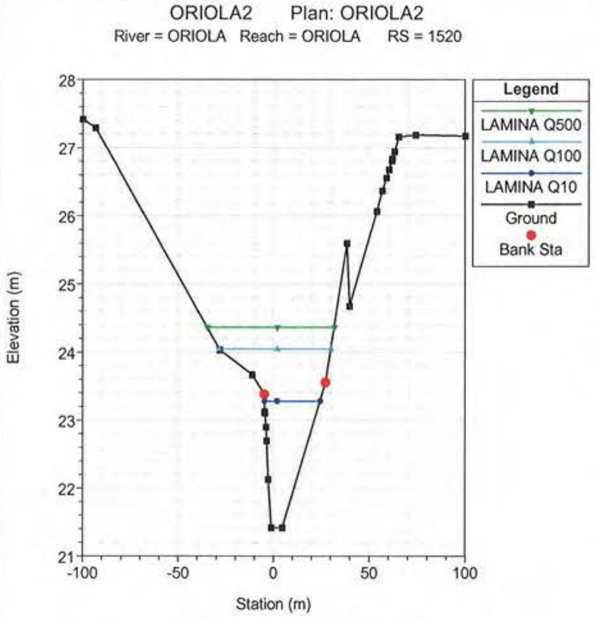

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1545.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

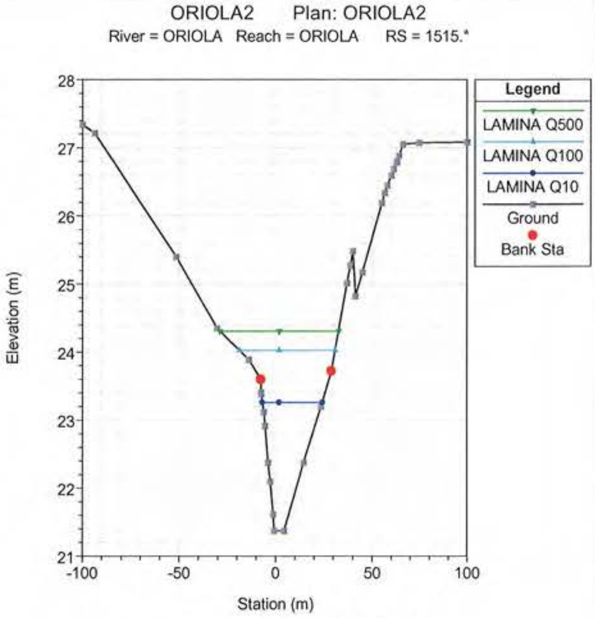

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1540
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

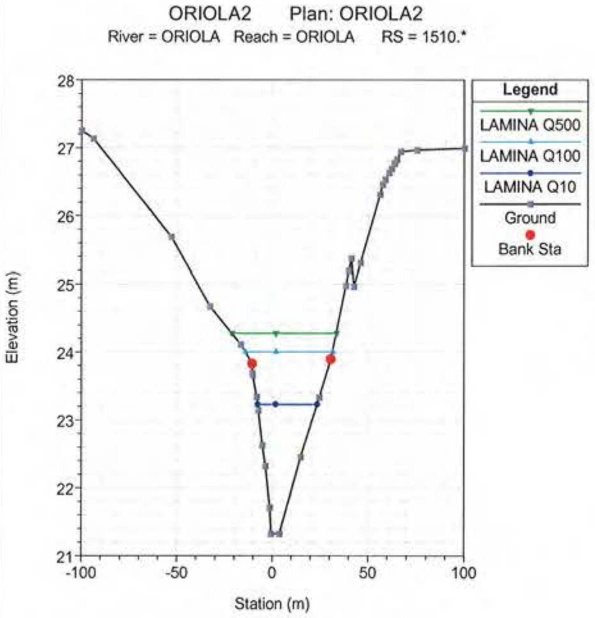

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1535.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

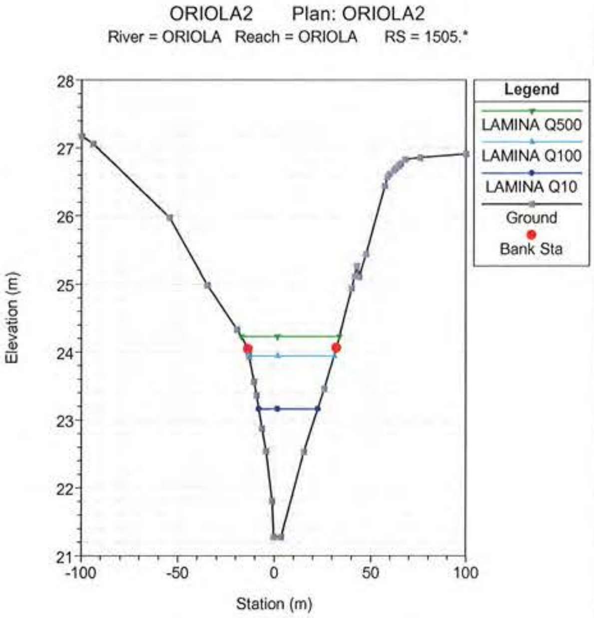

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1530.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

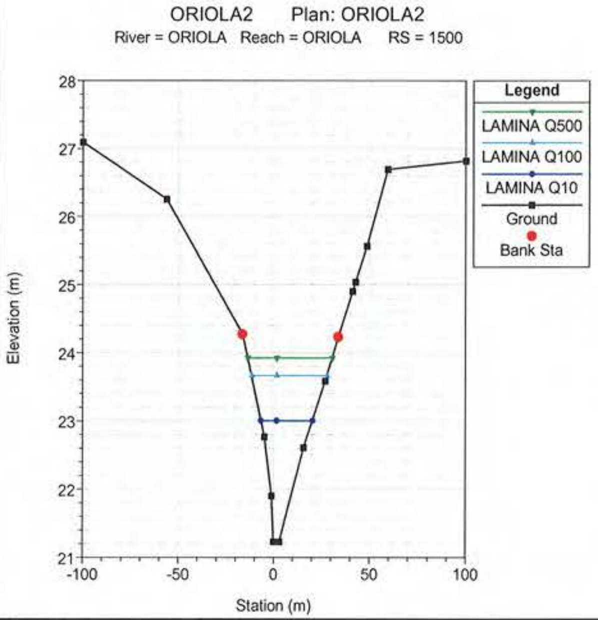

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1525.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

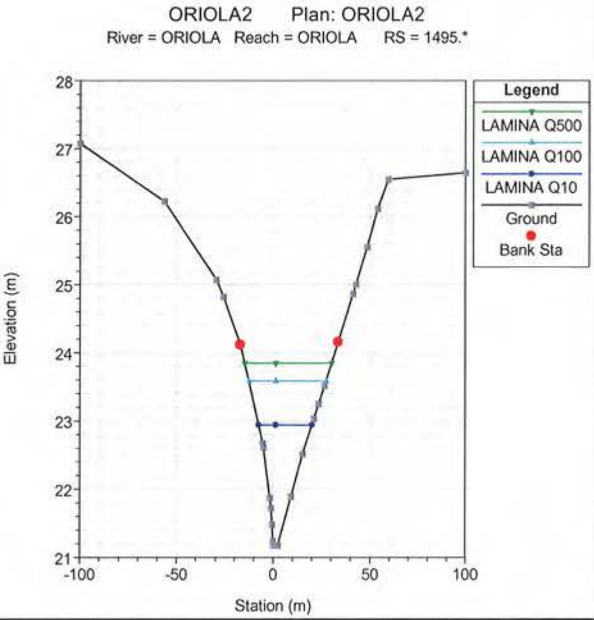

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1520
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

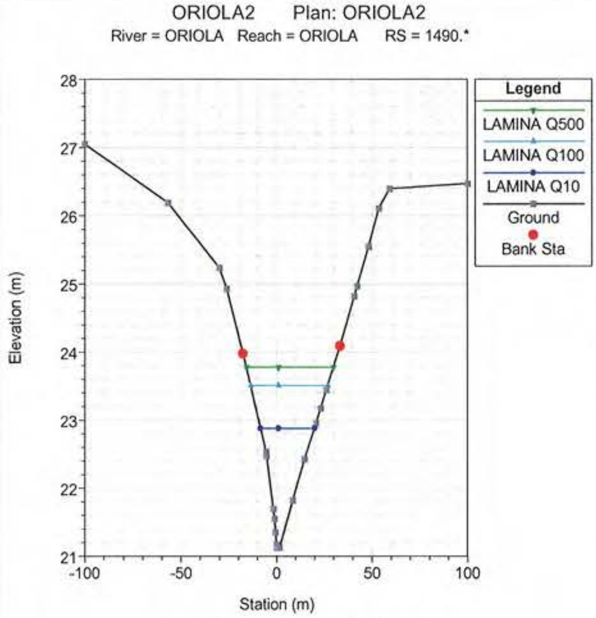

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1515.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

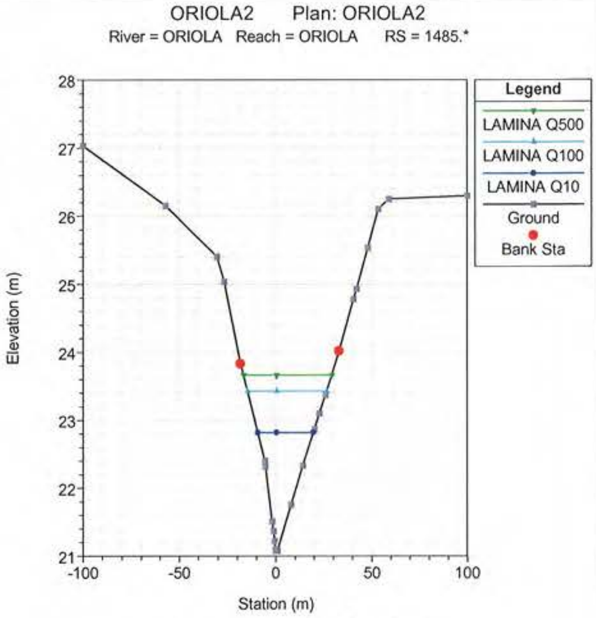

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1510.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

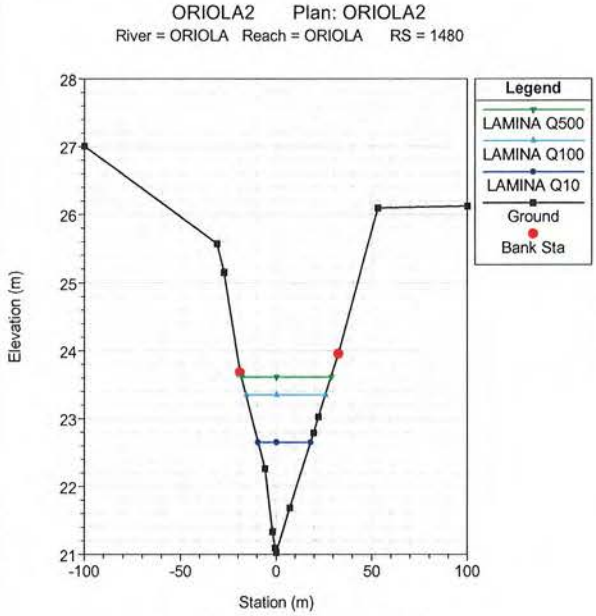

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1505.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

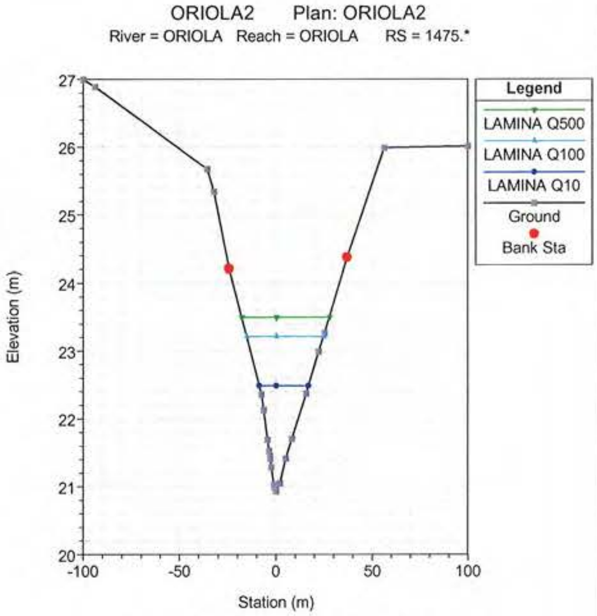

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1500
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

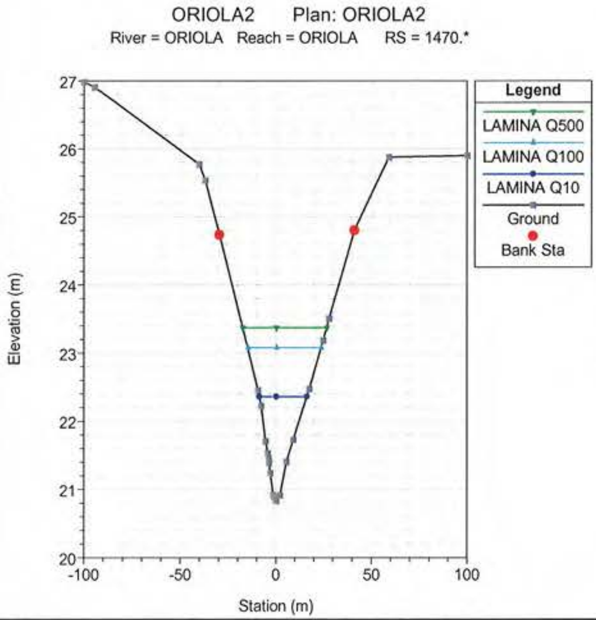

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1495.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

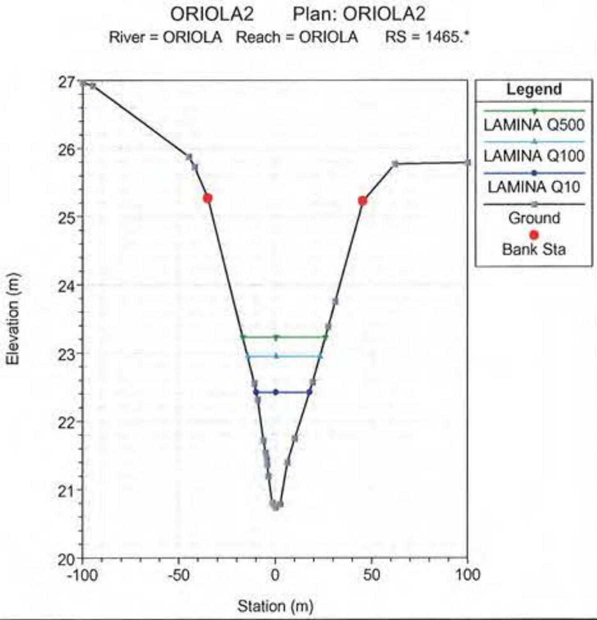

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1490.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

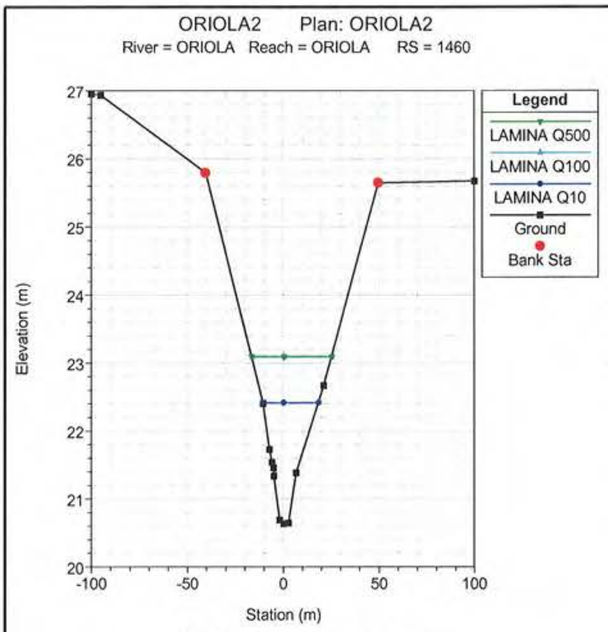

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1485.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

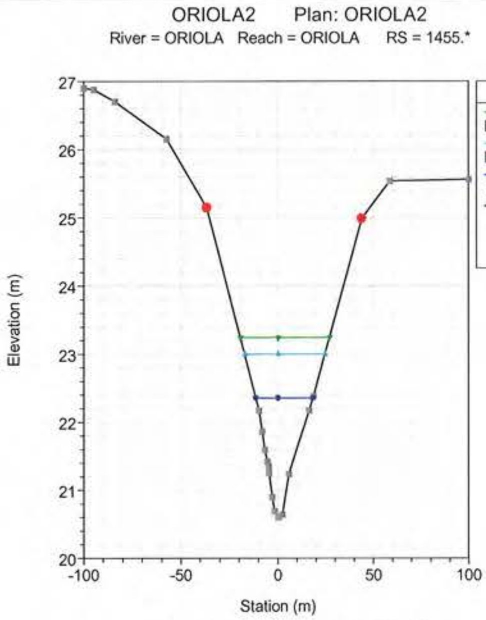

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1480
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

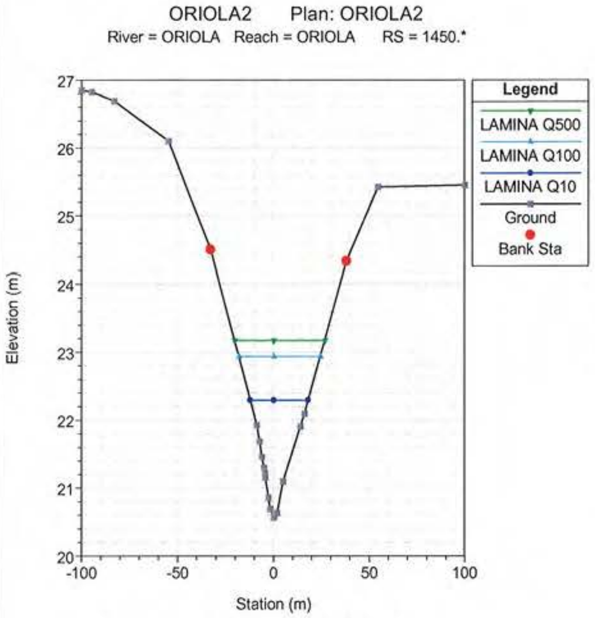

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1475.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

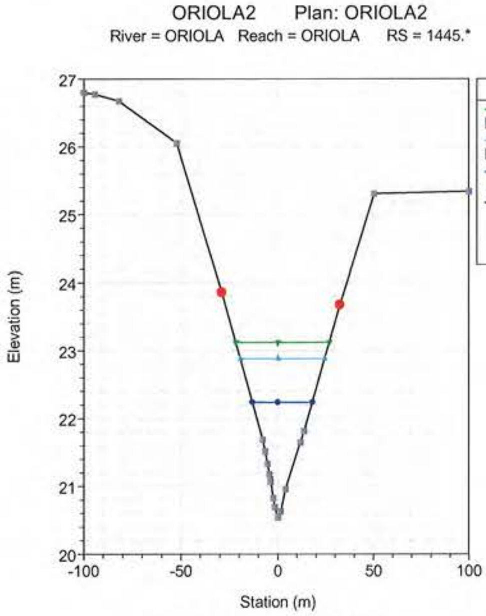

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1470.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

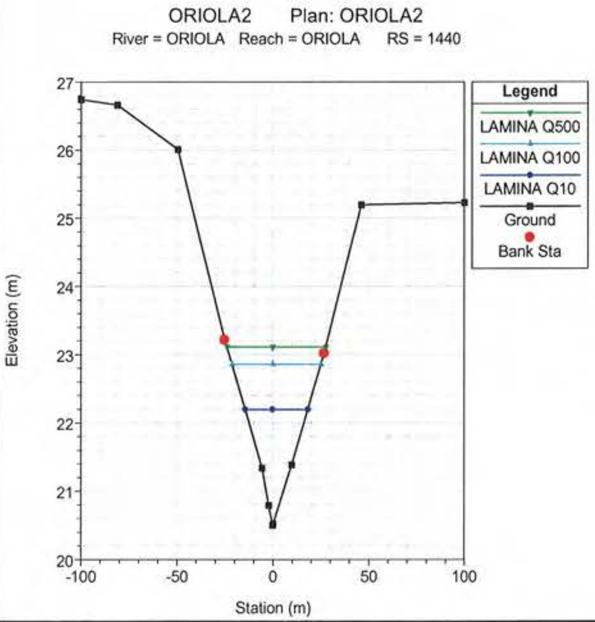

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1465.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

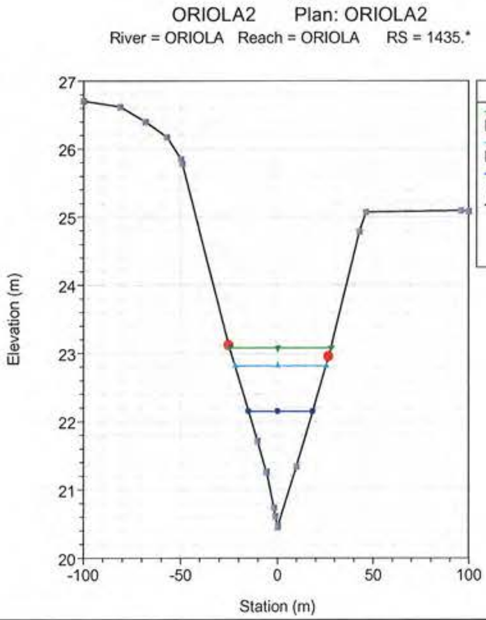

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1460
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

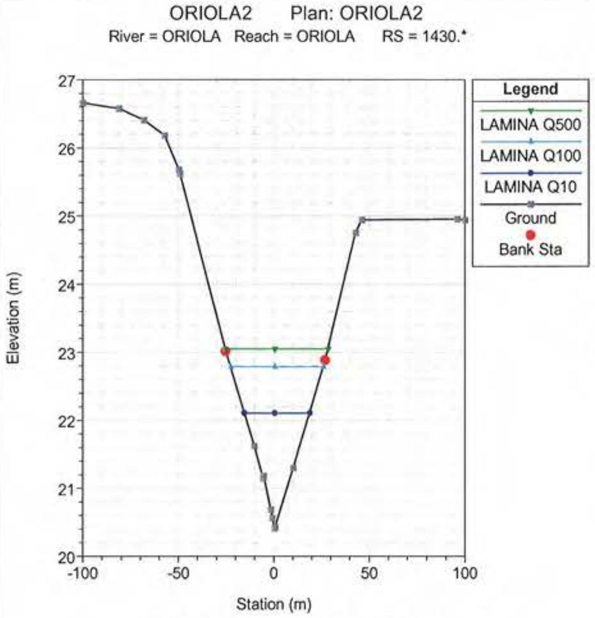

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1455.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

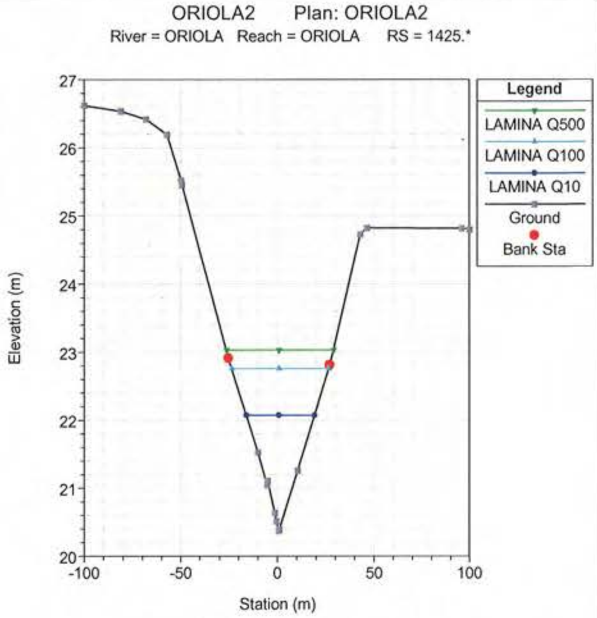

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1450.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1445.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1440
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1435.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1430.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
27
26
25
24
23
22
21
20
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1425.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
27
26
25
24
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22
21
20
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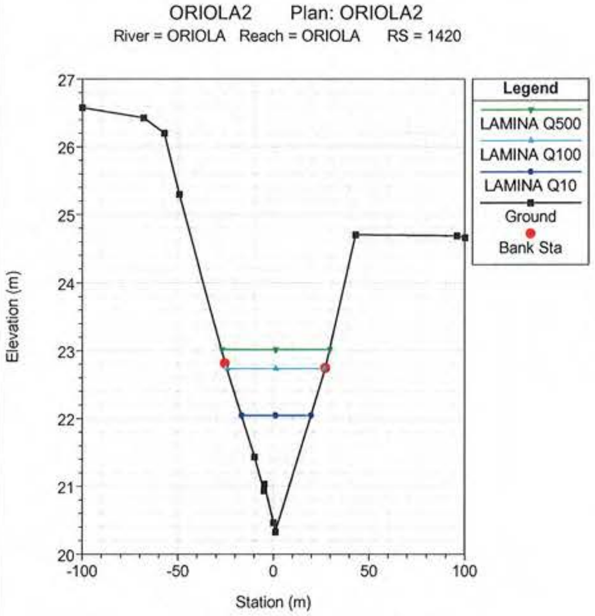
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1420
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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26
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24
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21
20
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-50
0
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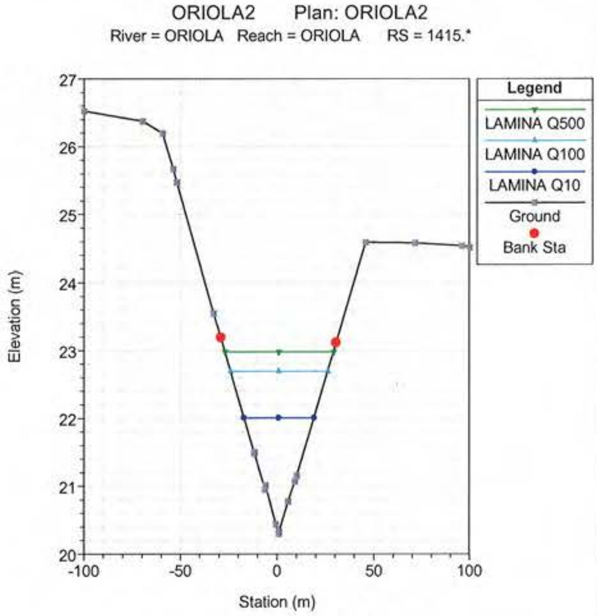
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1415.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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26
25
24
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21
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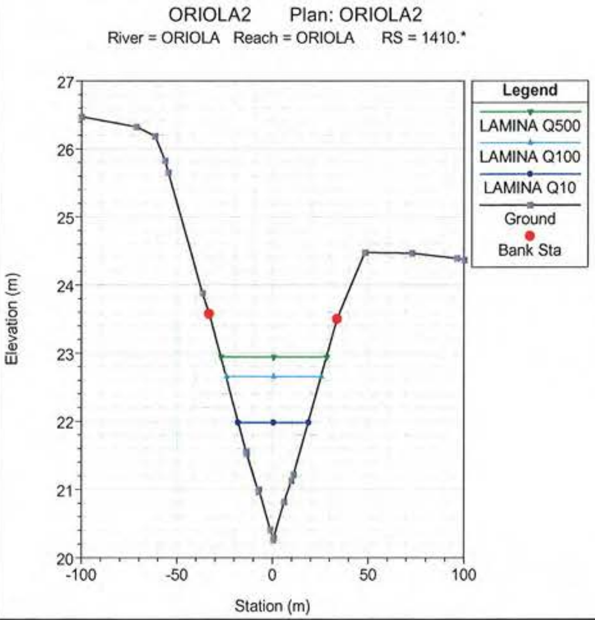
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1410.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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26
25
24
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22
21
20
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0
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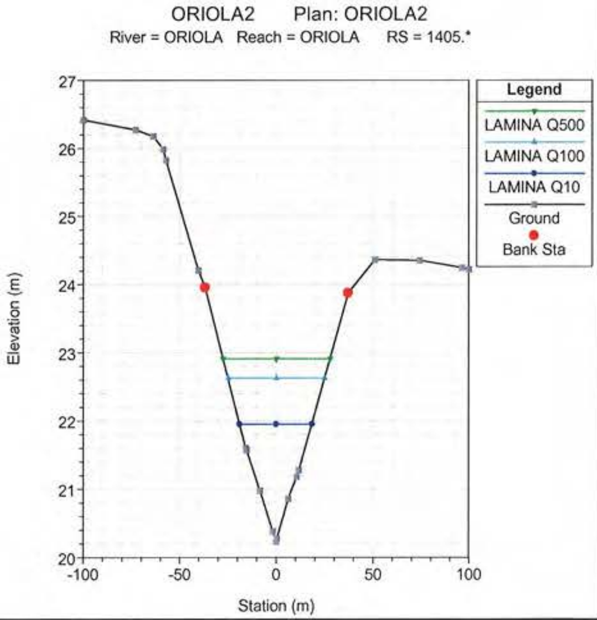
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1405.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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26
25
24
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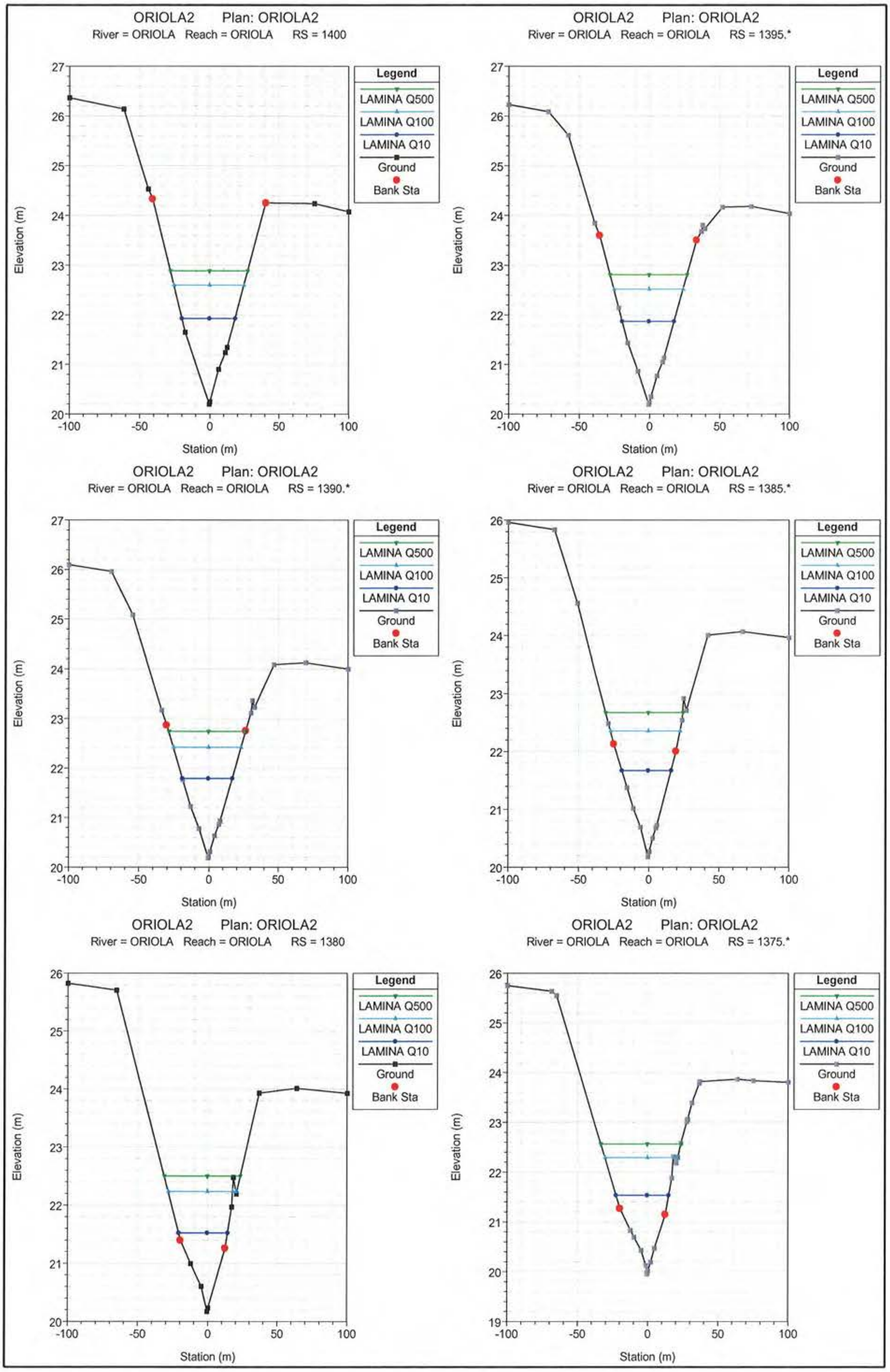
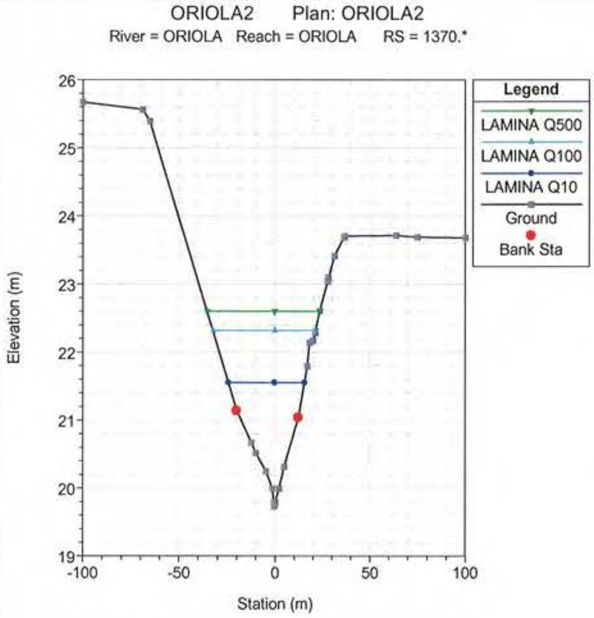
22
21
20
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1400
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1395.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1390.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1385.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1380
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1375.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1370.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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24
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20
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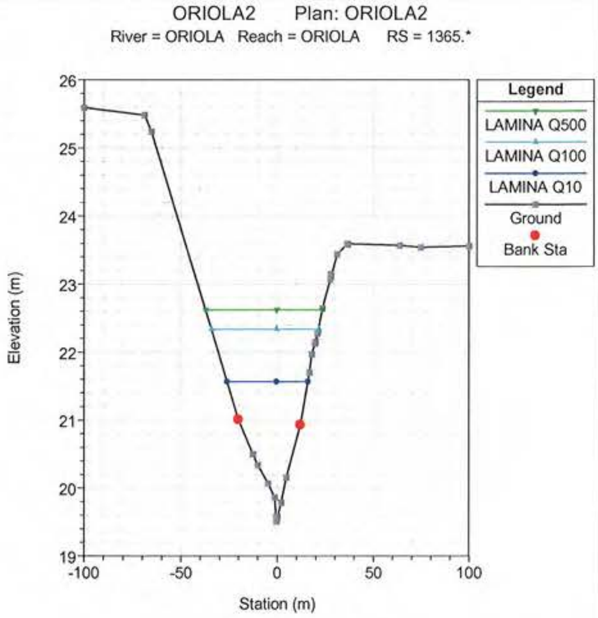
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1365.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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24
23
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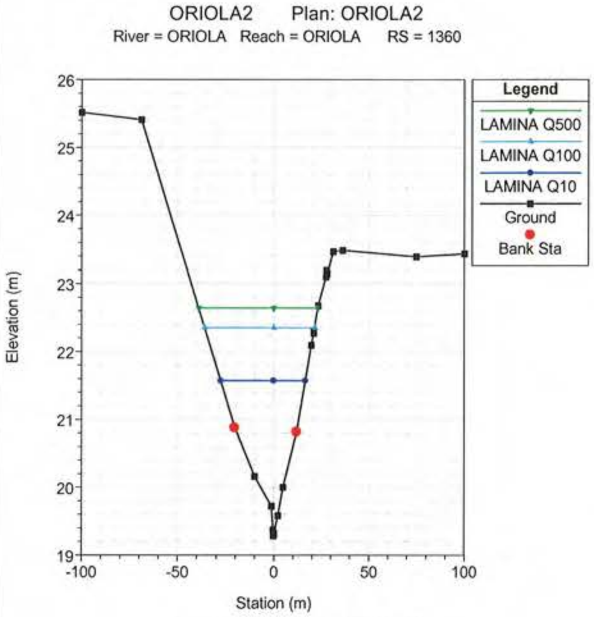
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1360
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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24
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20
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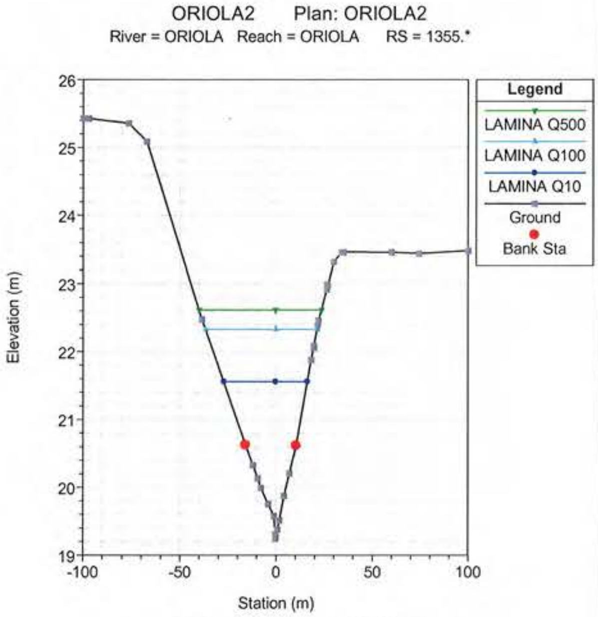
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1355.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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24
23
22
21
20
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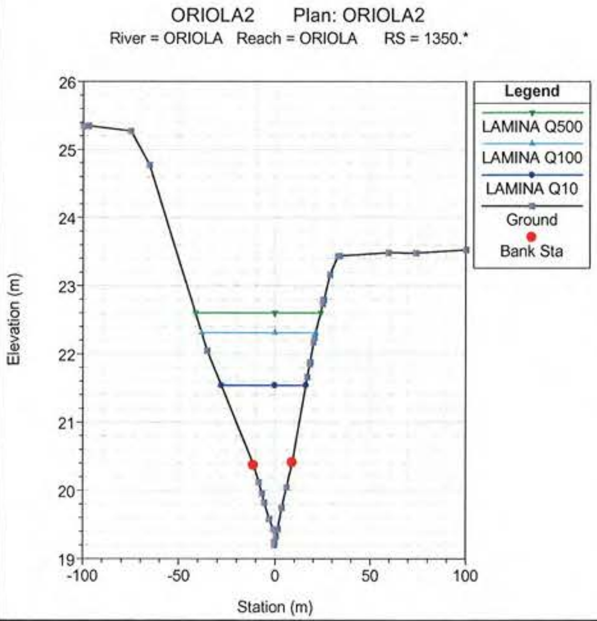
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1350.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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20
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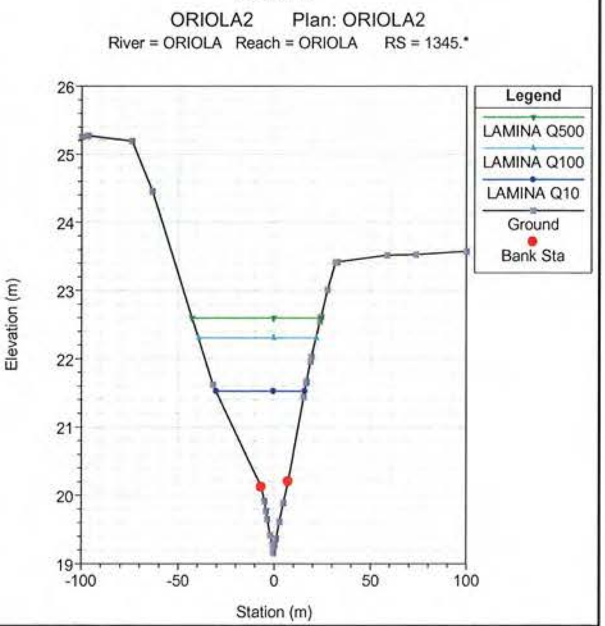
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1345.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
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25
24
23
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21
20
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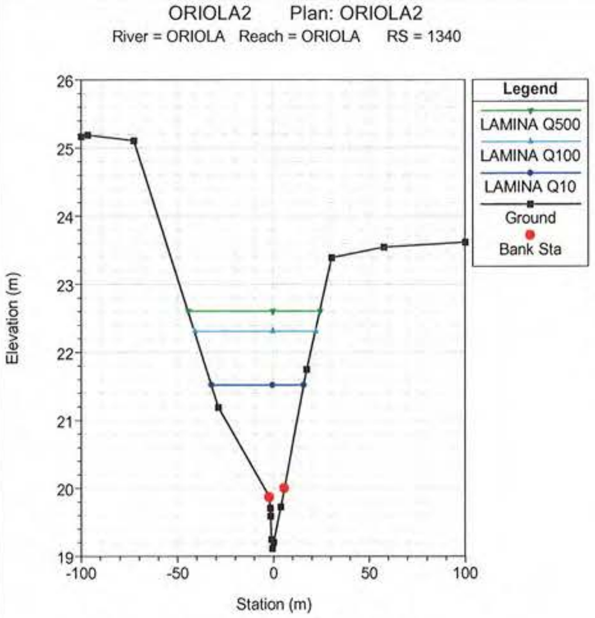
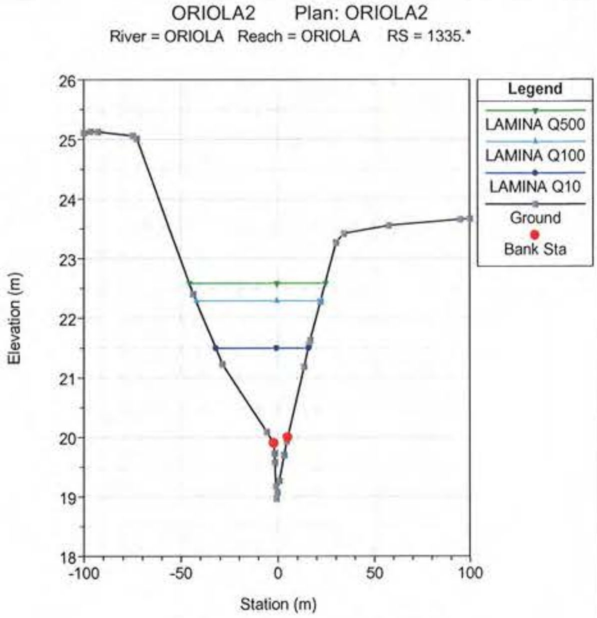
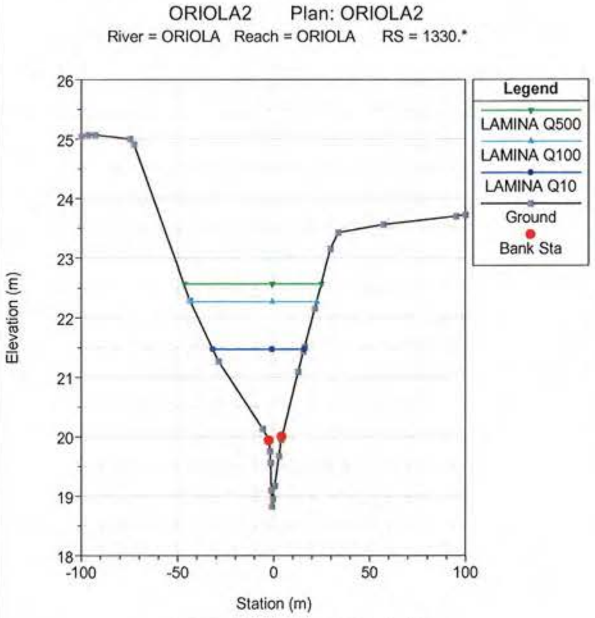
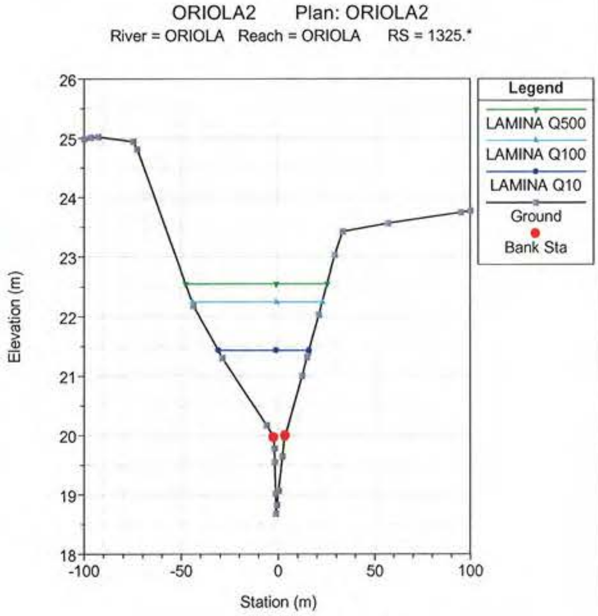
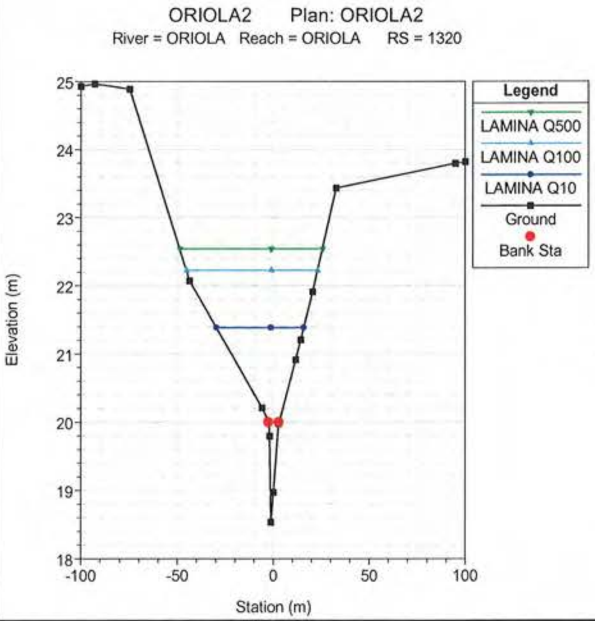
-100
-50
0
50
100

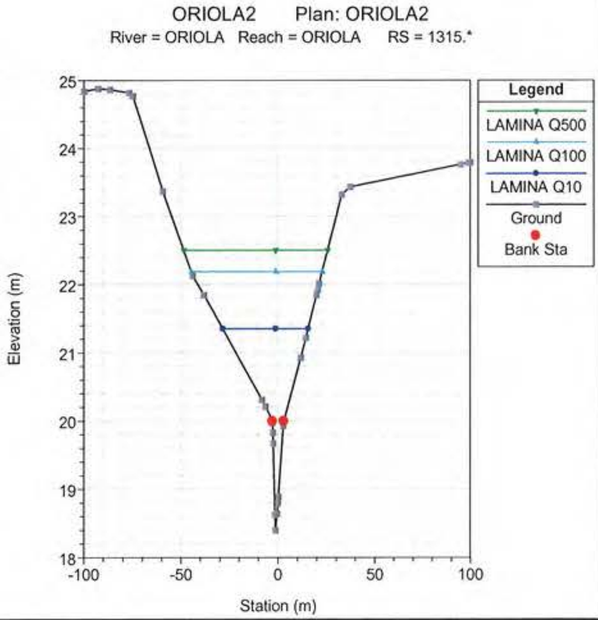

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1340
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1335.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

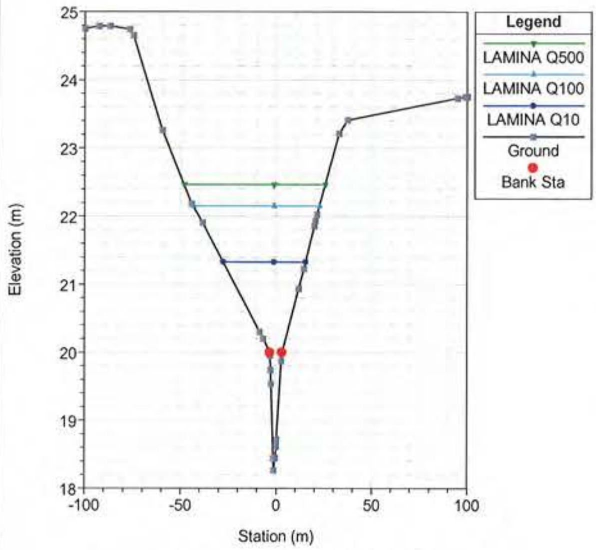

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1330.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1325.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

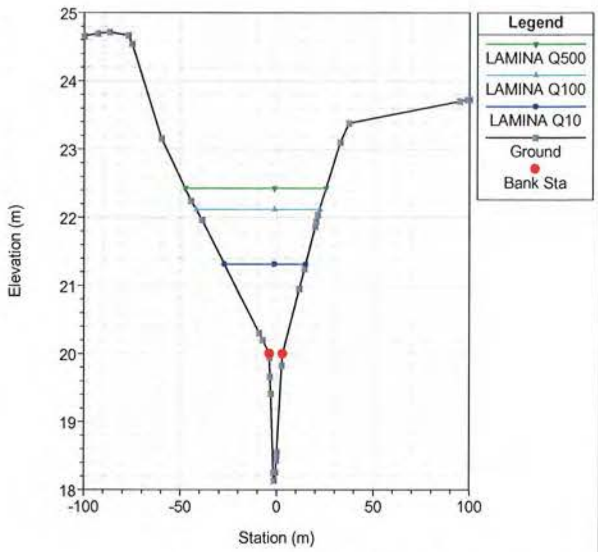

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1320
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1315.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

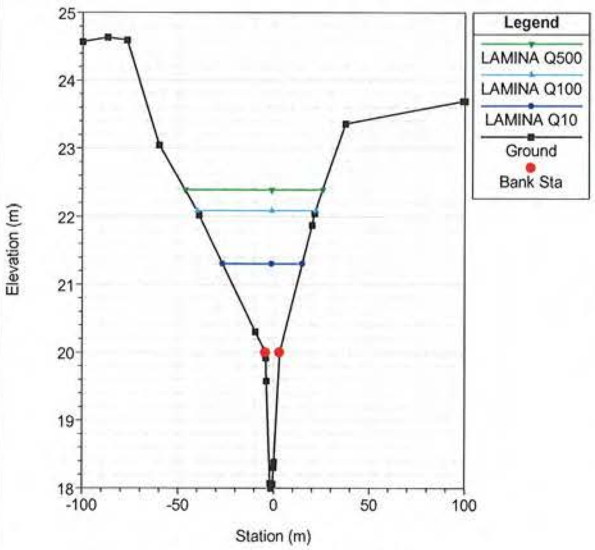
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1310.*



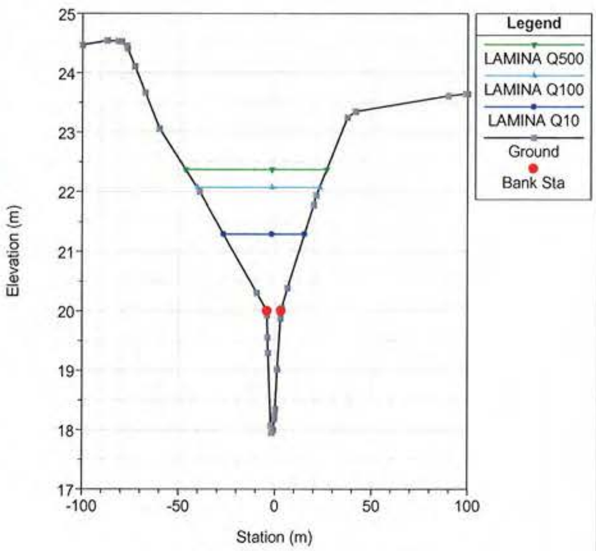
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1305.*



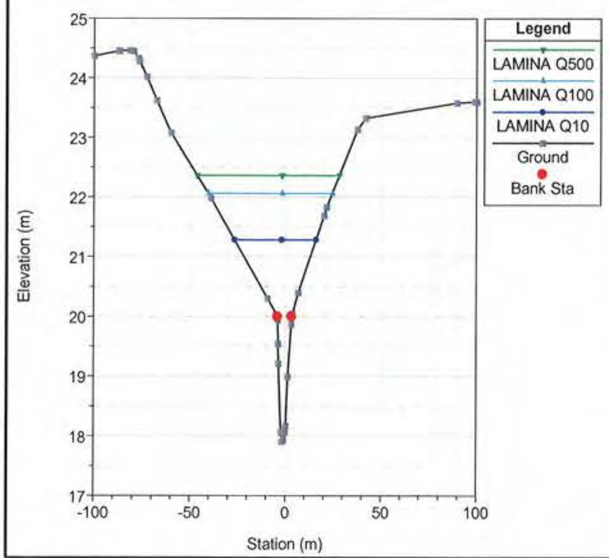
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1300



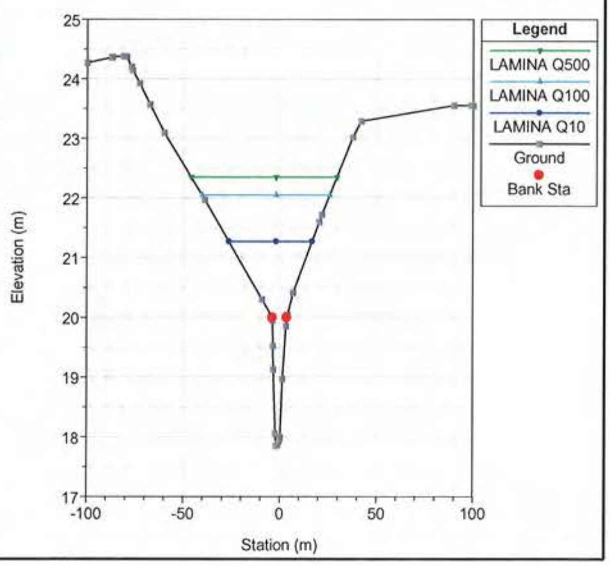
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1295.*

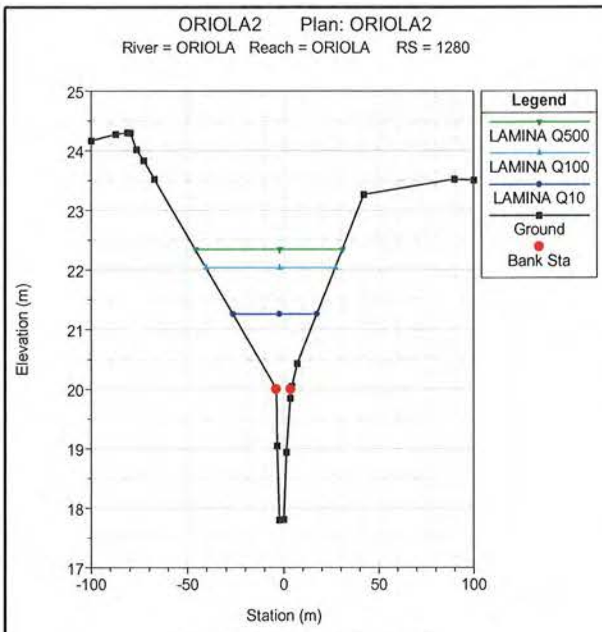


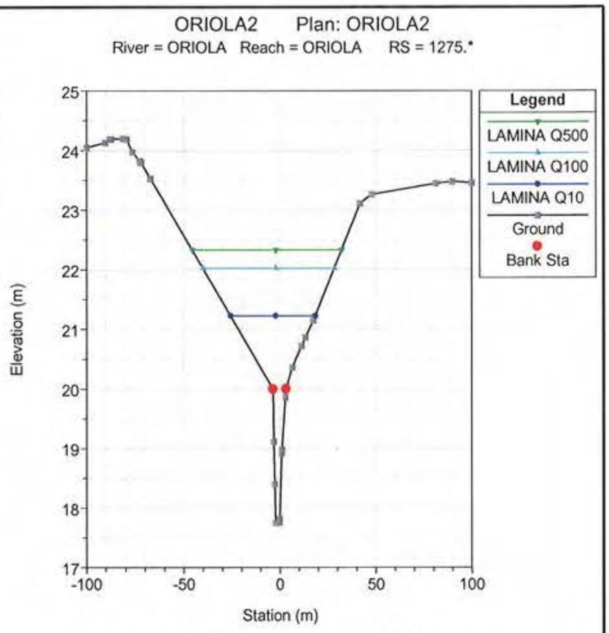
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1290.*

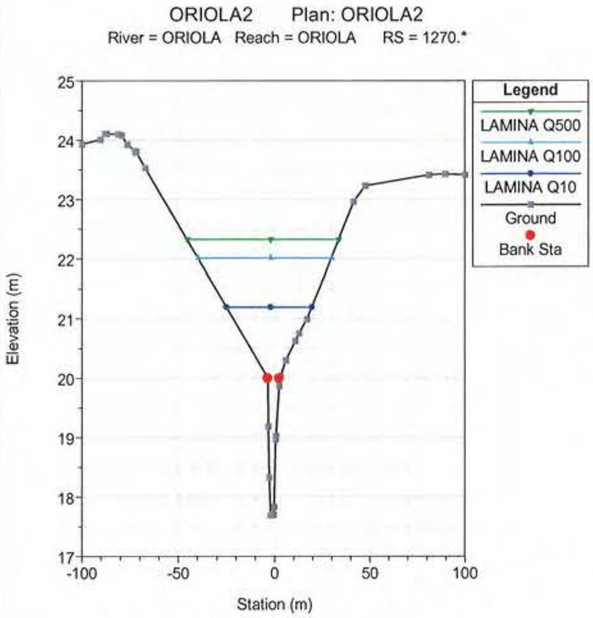


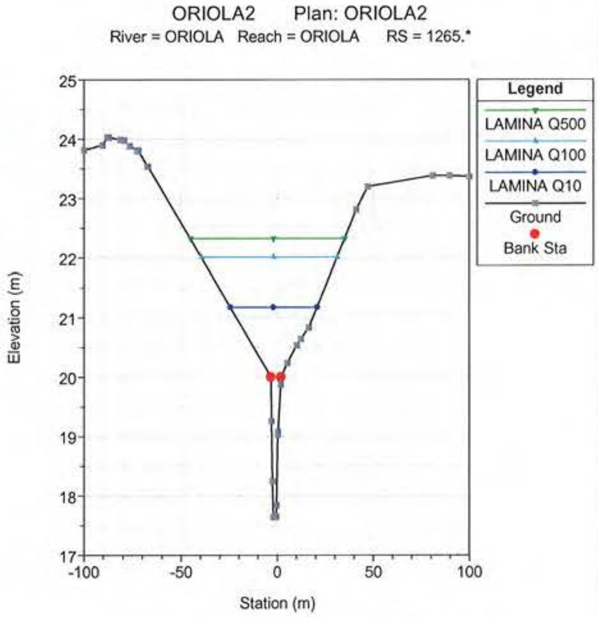
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1285.*

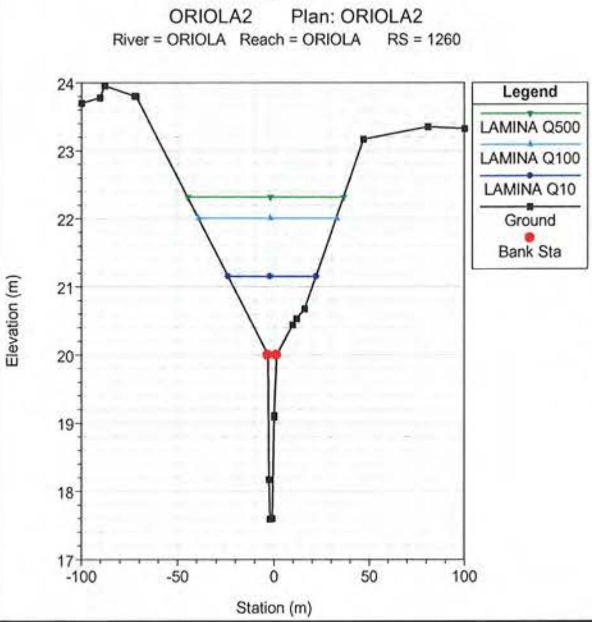


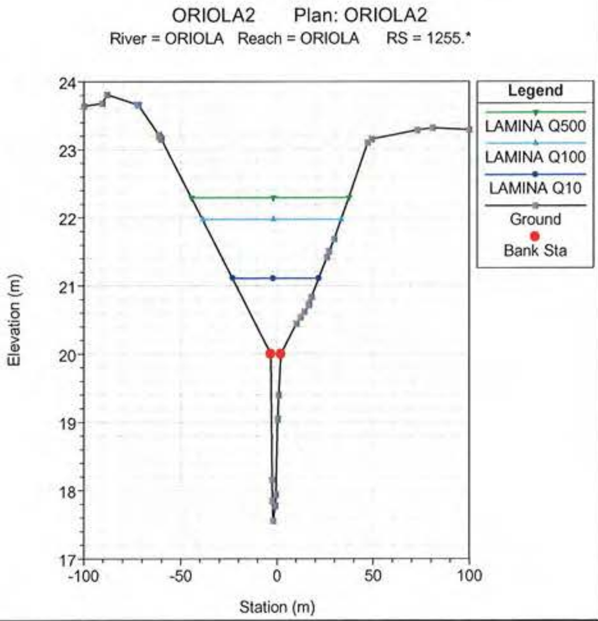

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1280
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1275.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

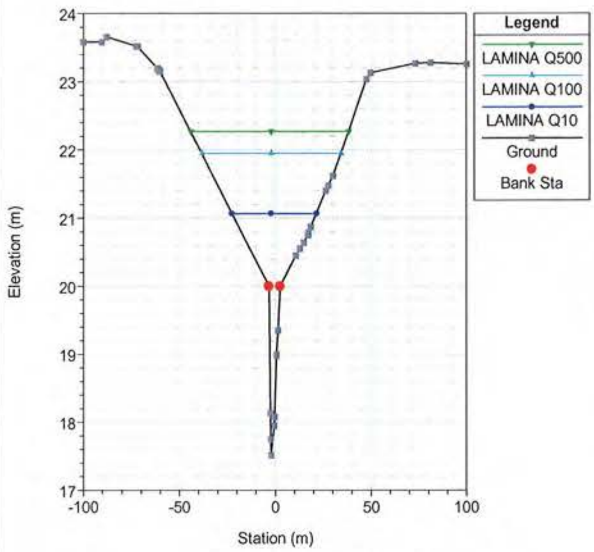

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1270.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1265.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

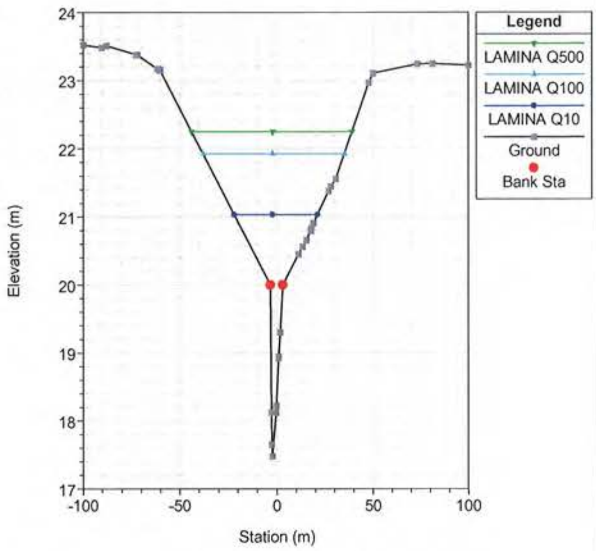

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1260
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1255.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

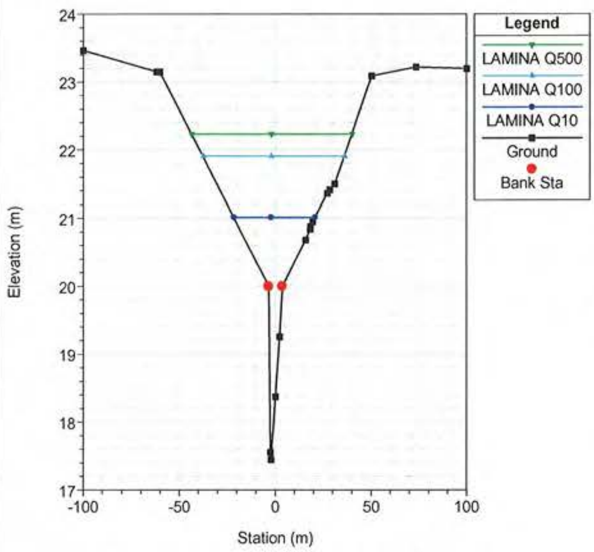
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1250.*



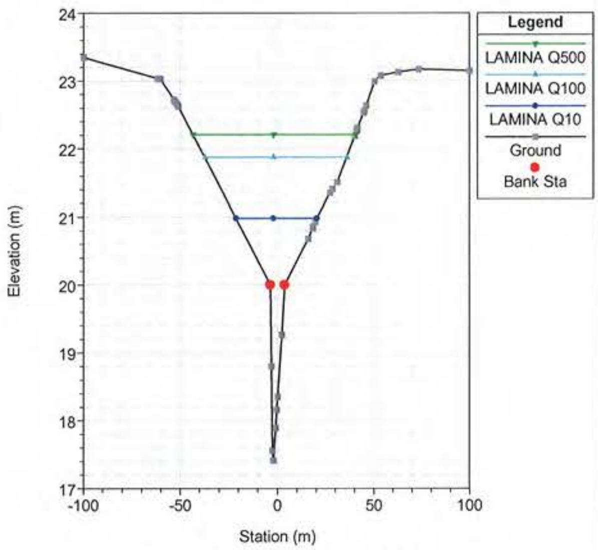
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1245.*



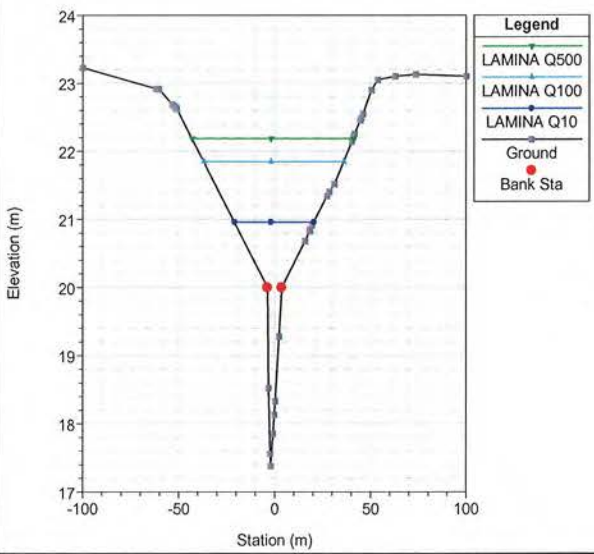
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1240



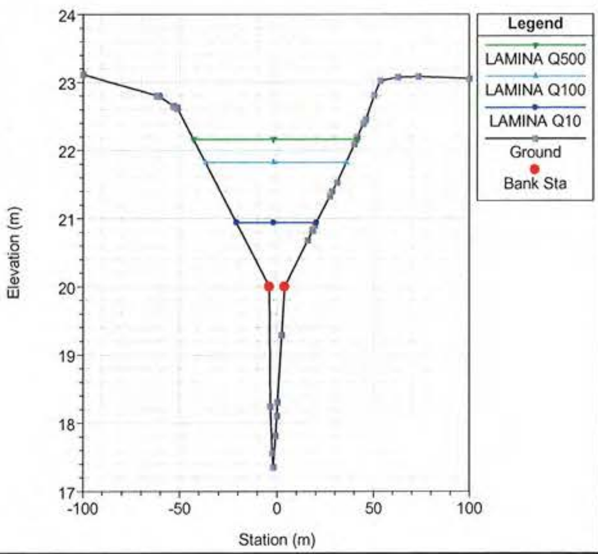
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1235.*



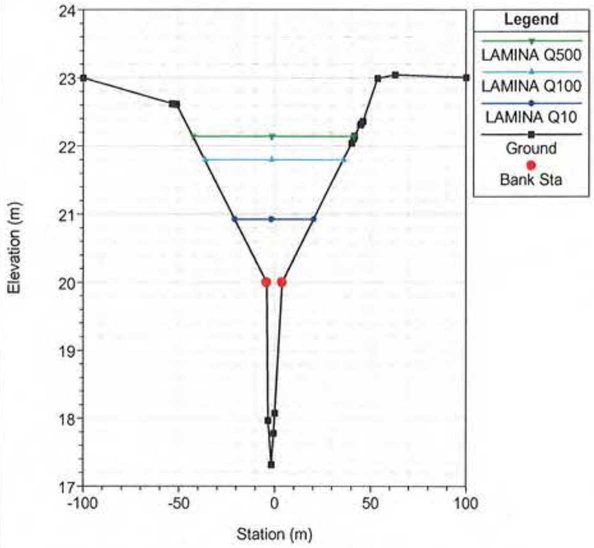
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1230.*



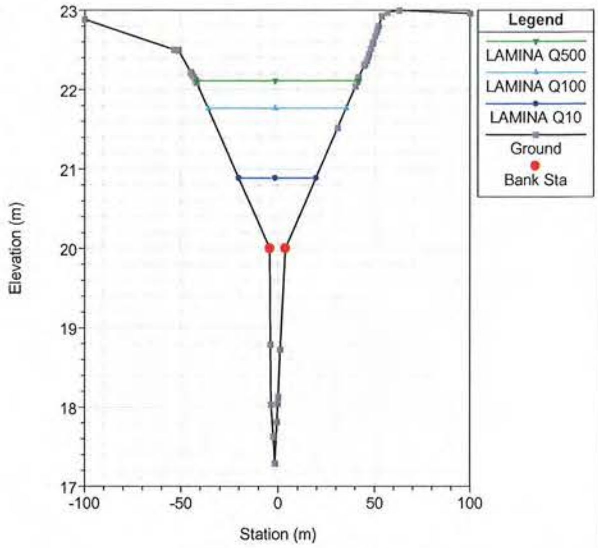
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1225.*



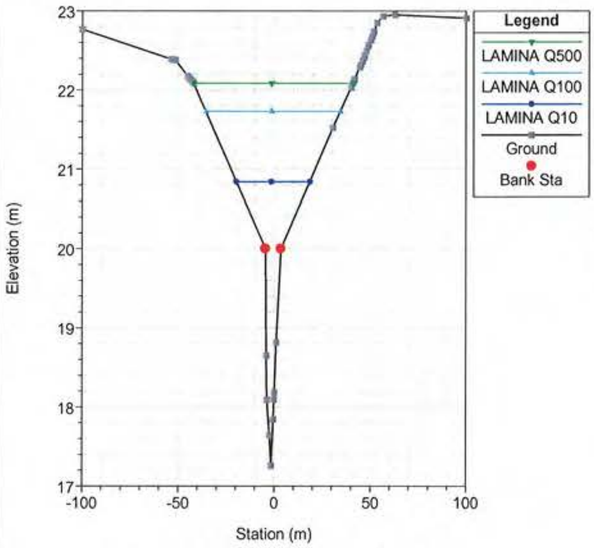
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1220



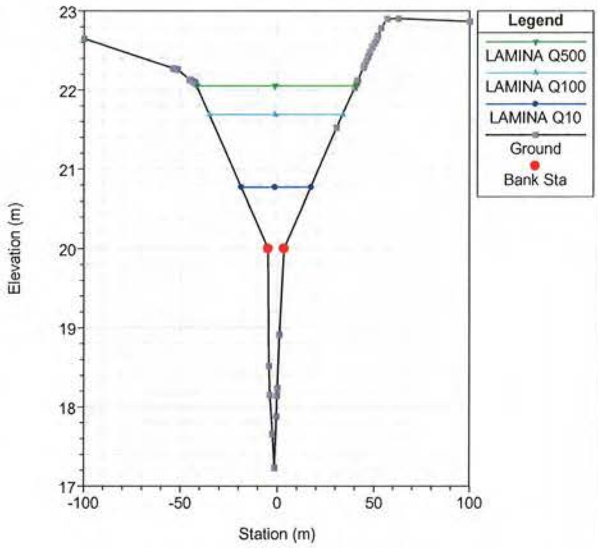
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1215.*



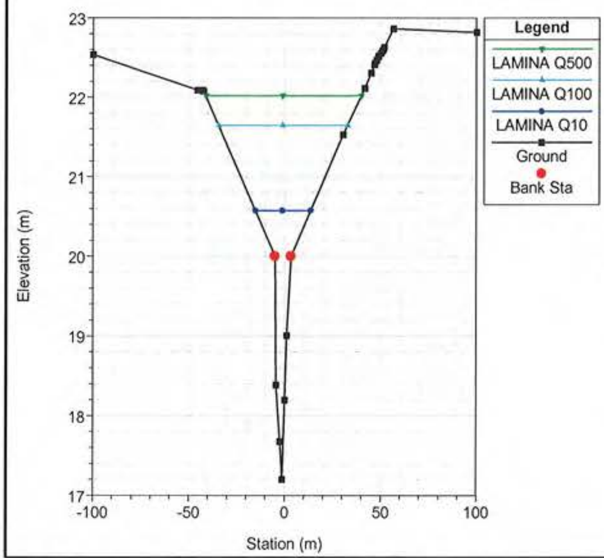
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1210.*



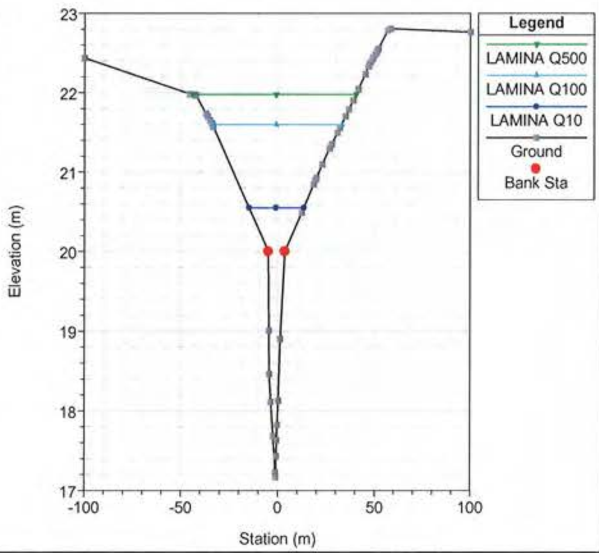
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1205.*

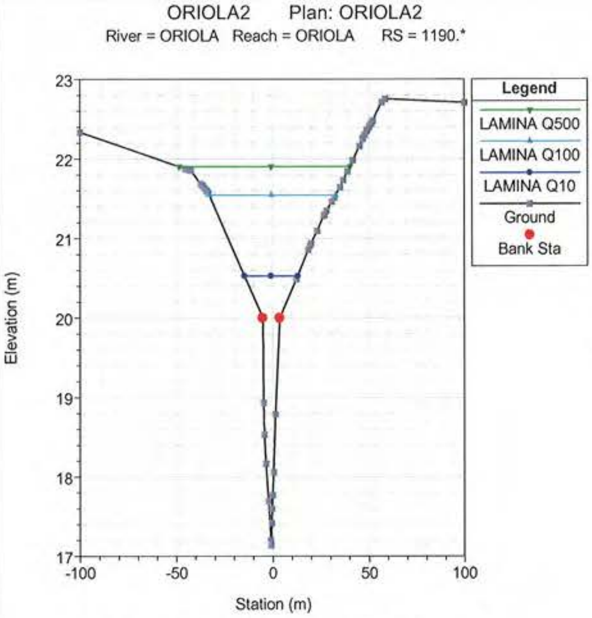


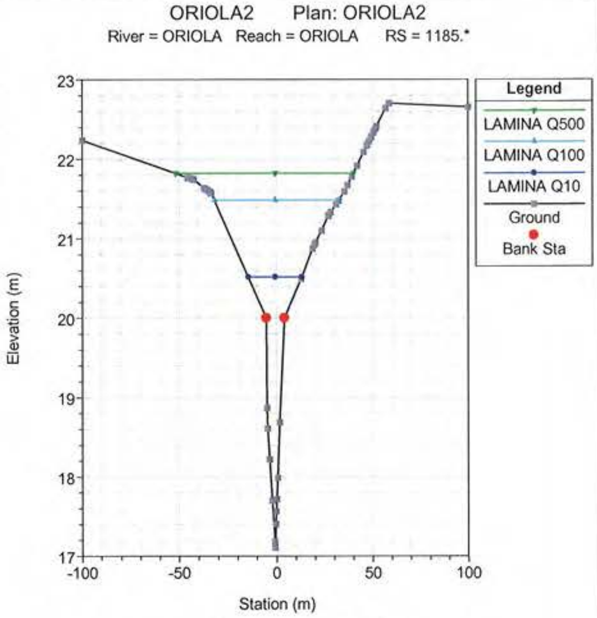
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1200

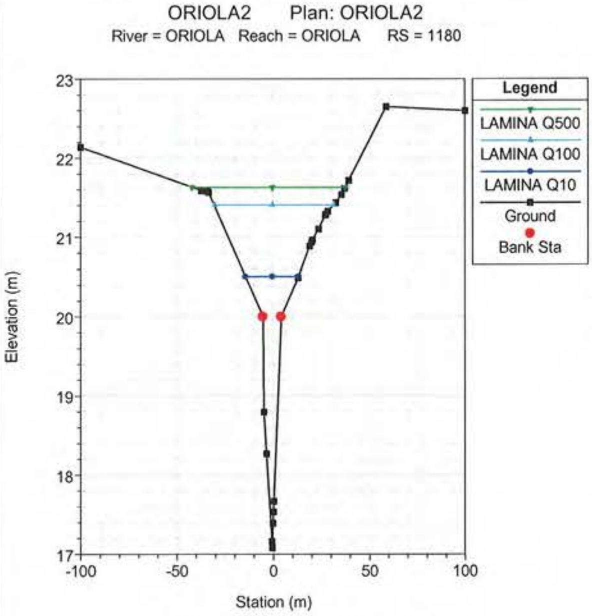


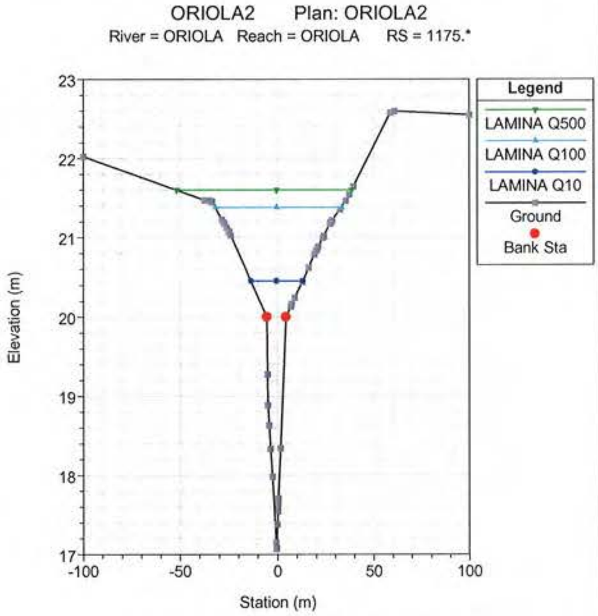
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1195.*

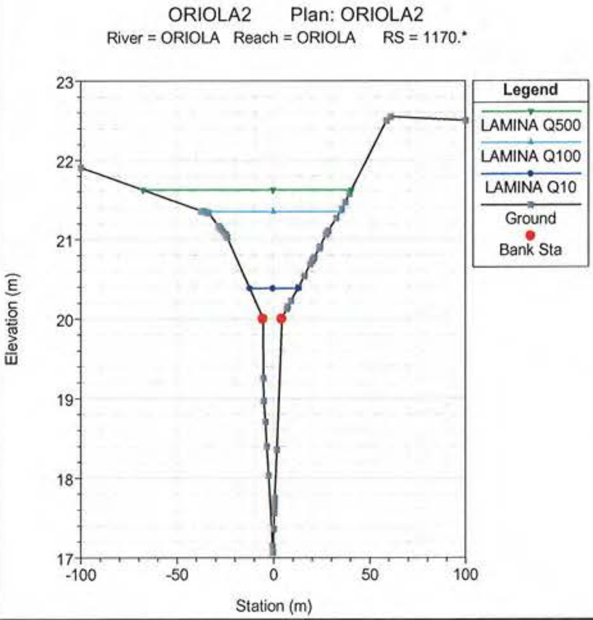


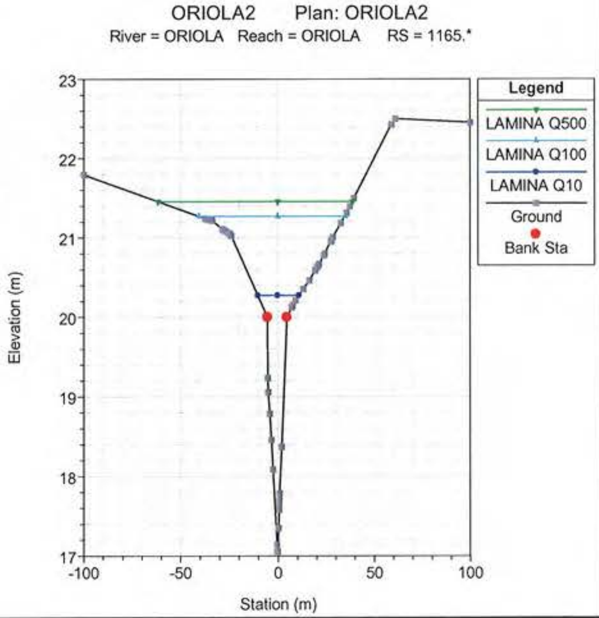

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1190.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

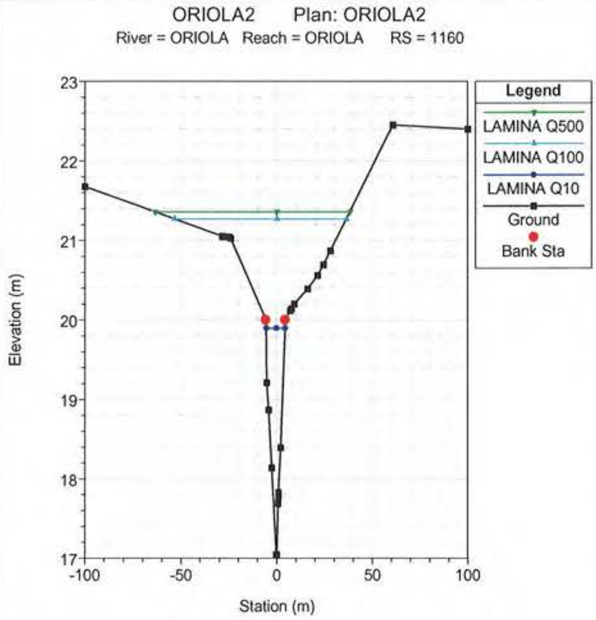

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1185.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

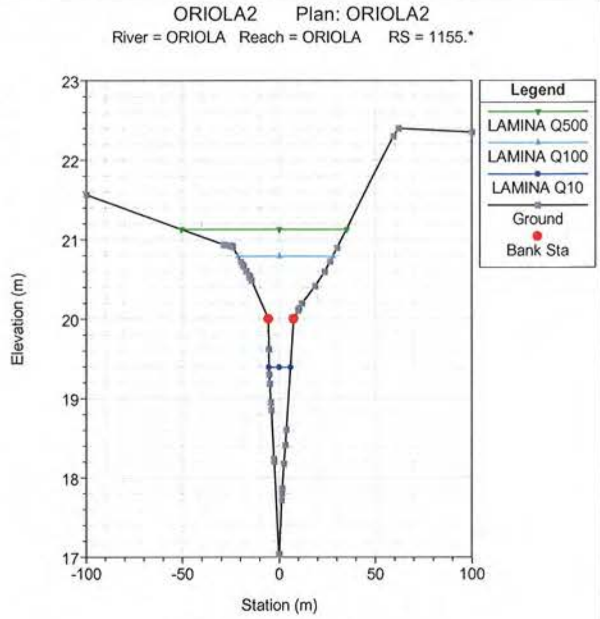

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1180
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

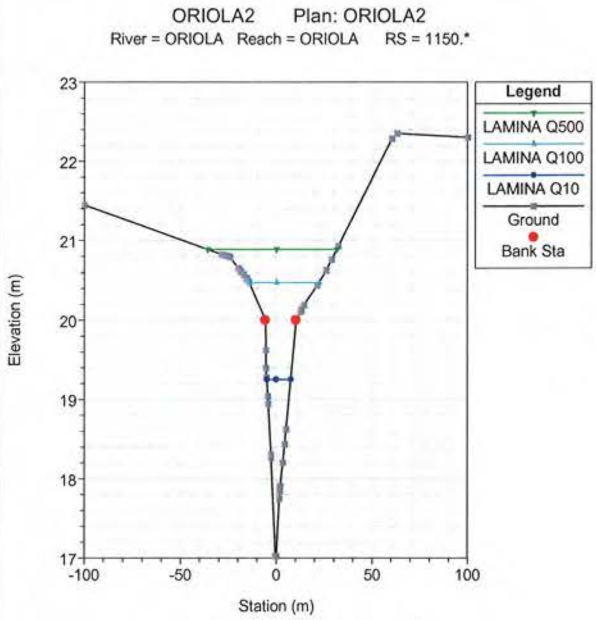

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1175.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

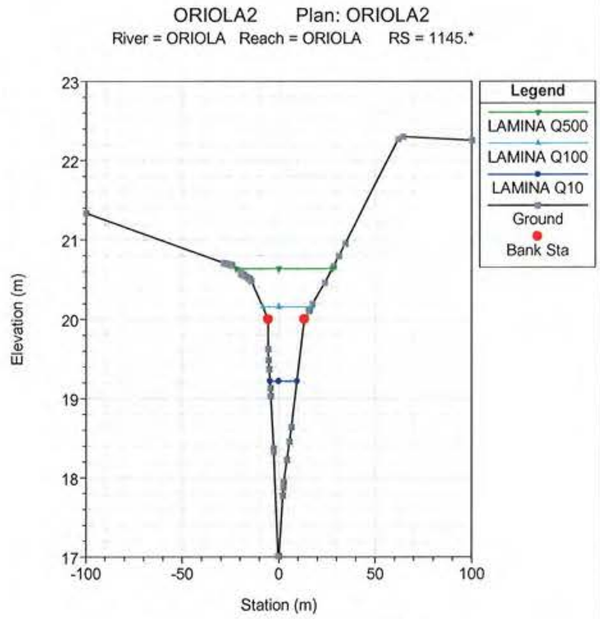

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1170.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

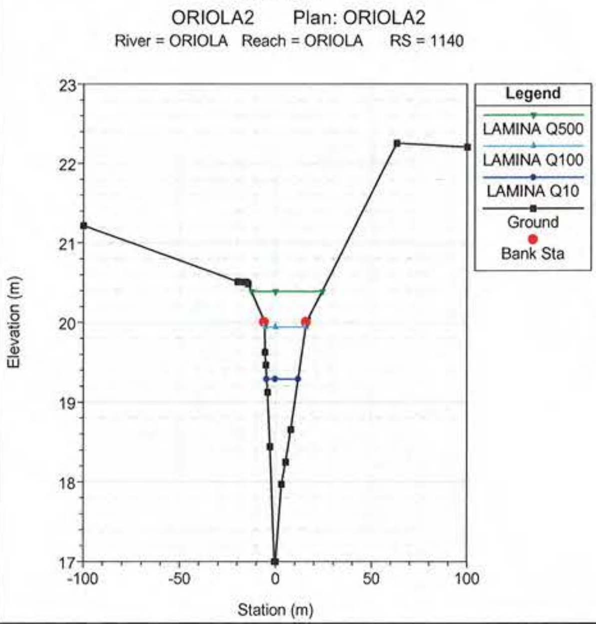

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1165.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

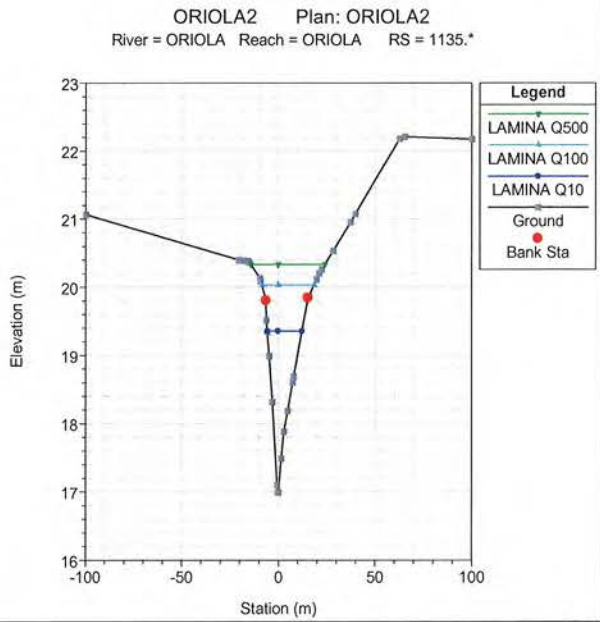

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1160
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

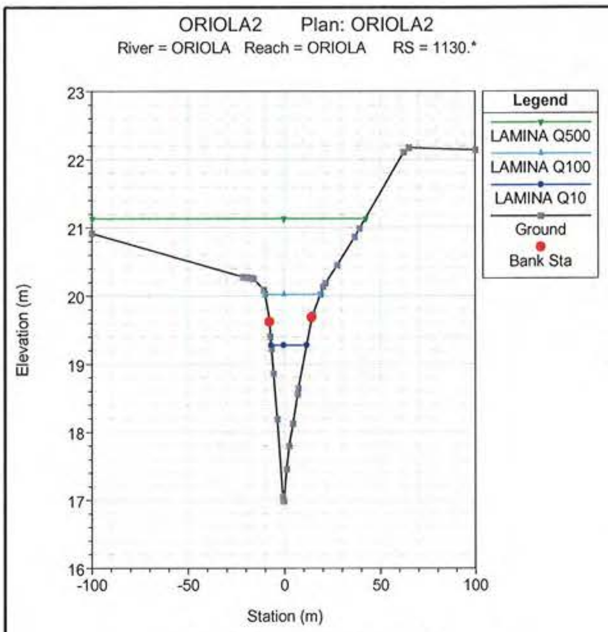

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1155.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

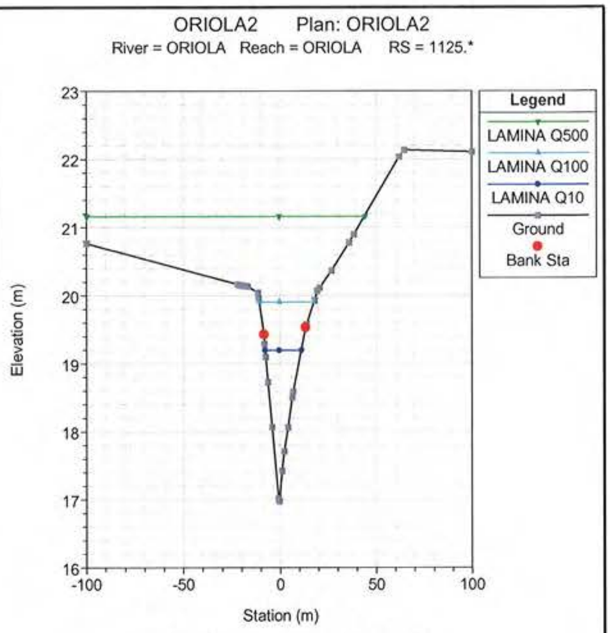

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1150.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

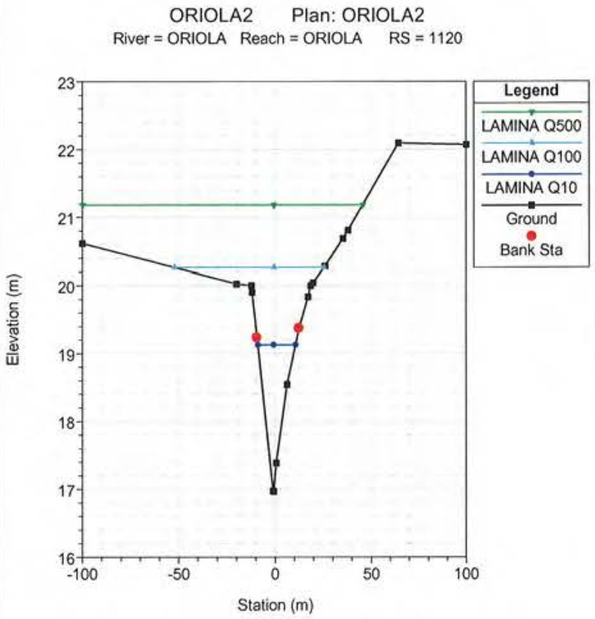

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1145.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

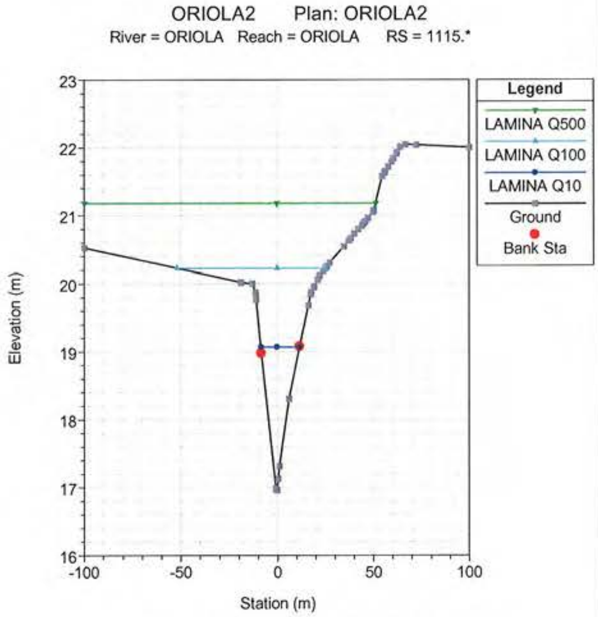

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1140
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

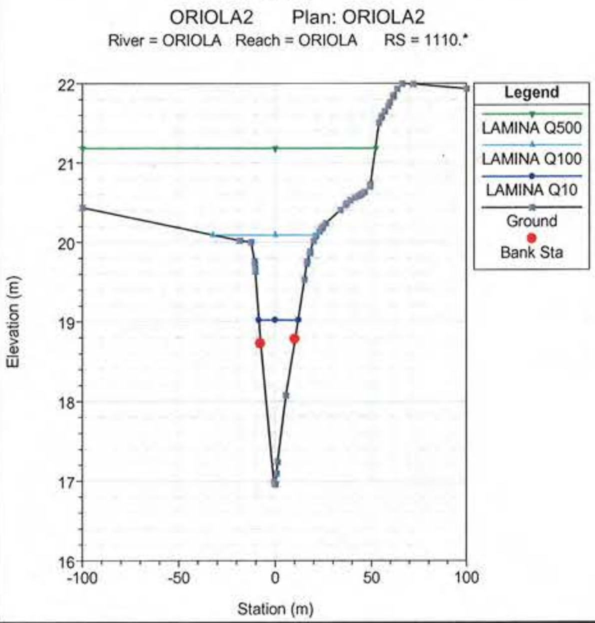

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1135.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

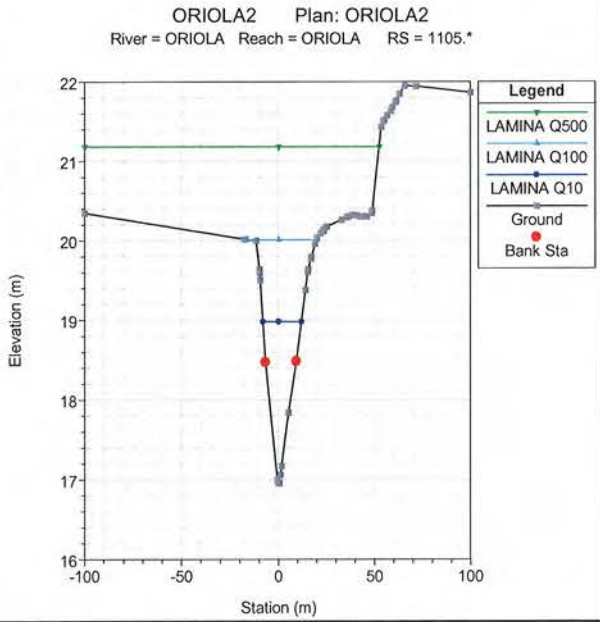

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1130.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
23
22
21
20
19
18
17
16
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1125.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
23
22
21
20
19
18
17
16
-100
-50
0
50
100

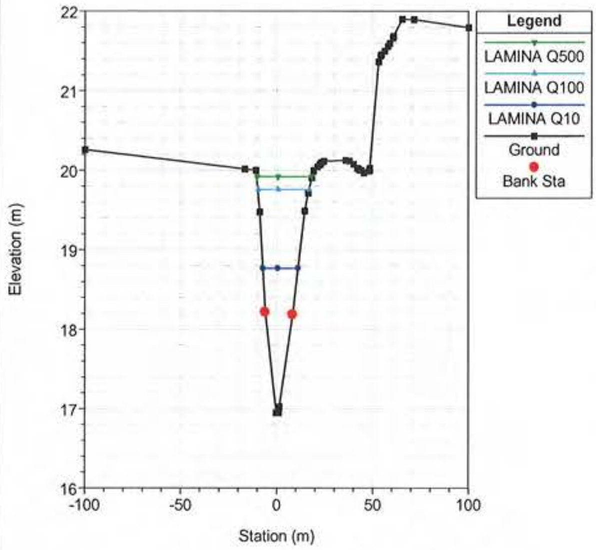

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1120
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
23
22
21
20
19
18
17
16
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1115.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
23
22
21
20
19
18
17
16
-100
-50
0
50
100

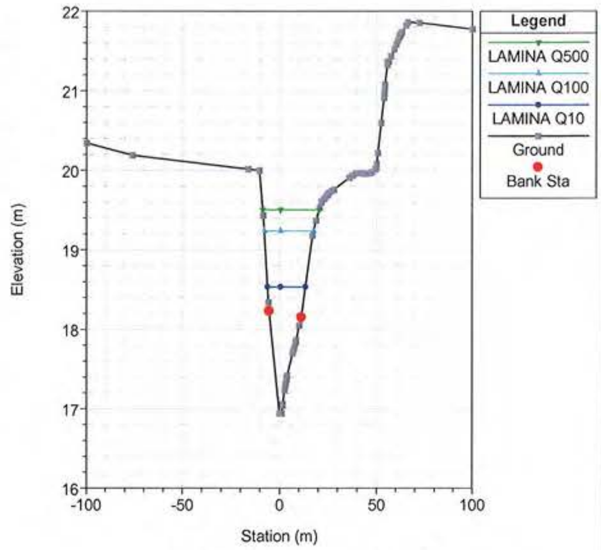

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1110.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
22
21
20
19
18
17
16
-100
-50
0
50
100


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1105.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
22
21
20
19
18
17
16
-100
-50
0
50
100

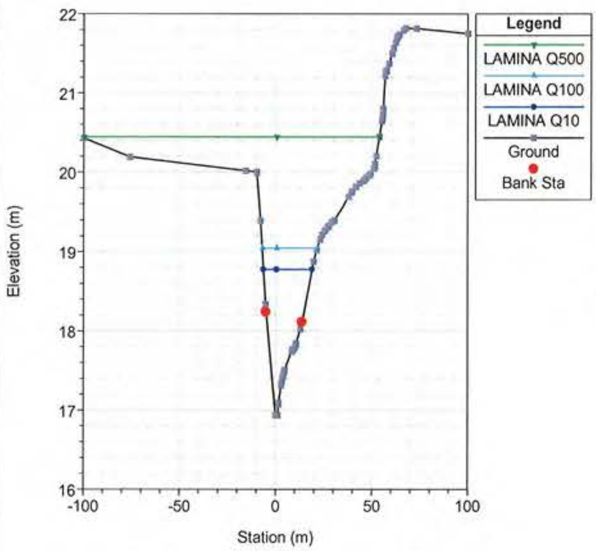
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1100



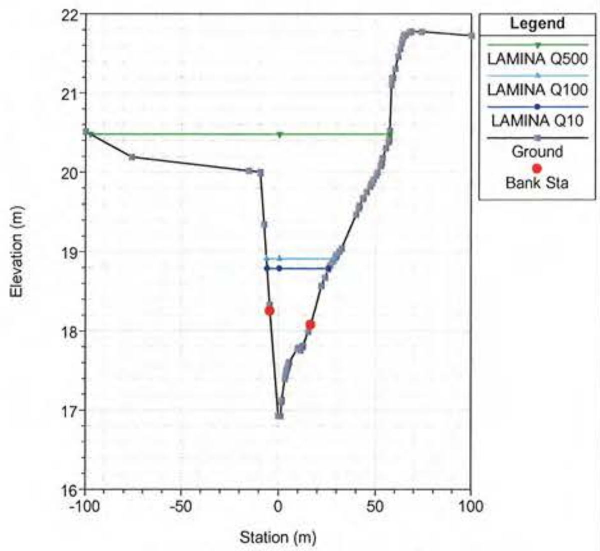
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1095.*



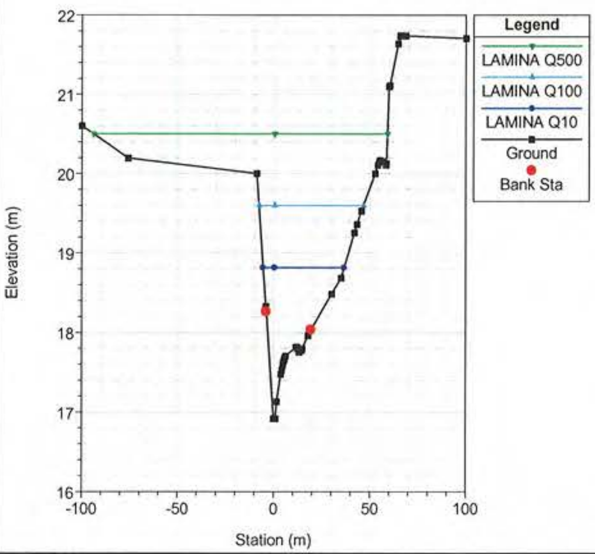
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1090.*



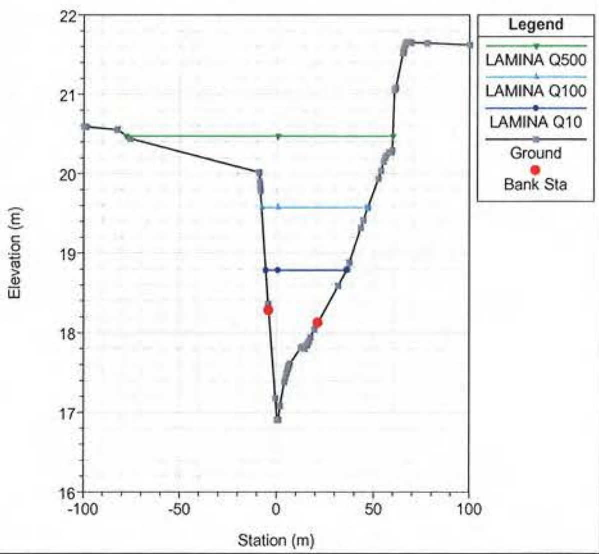
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1085.*

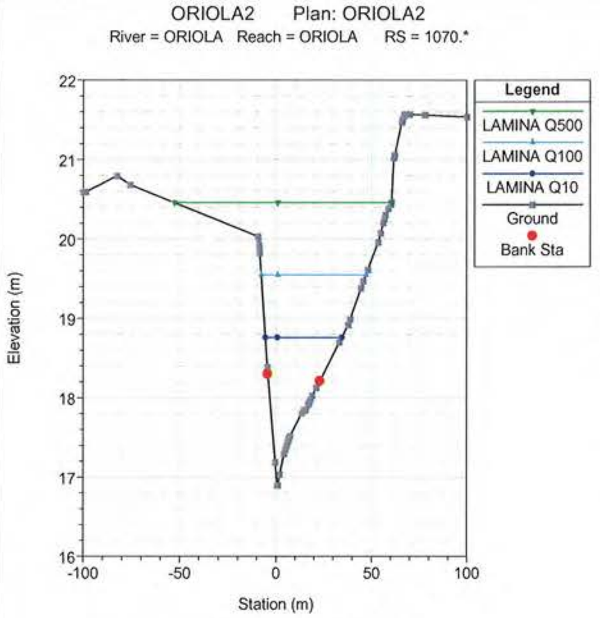


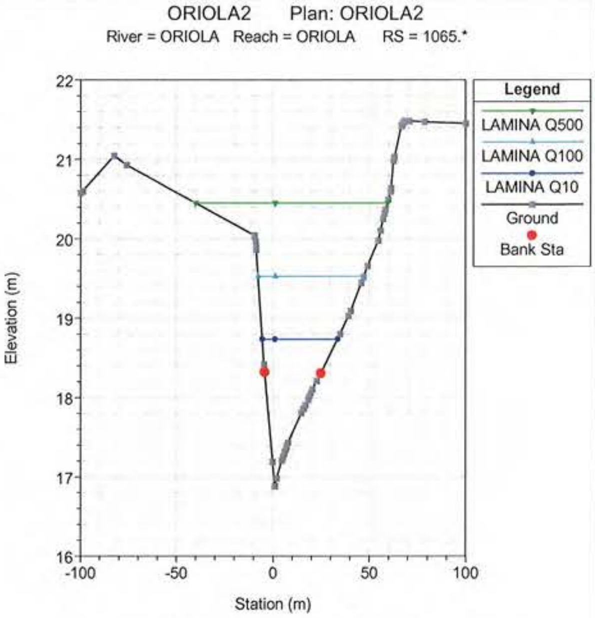
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1080

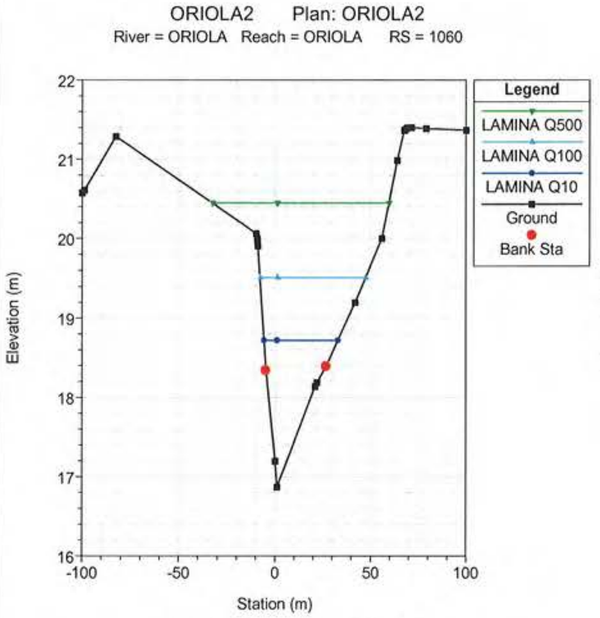


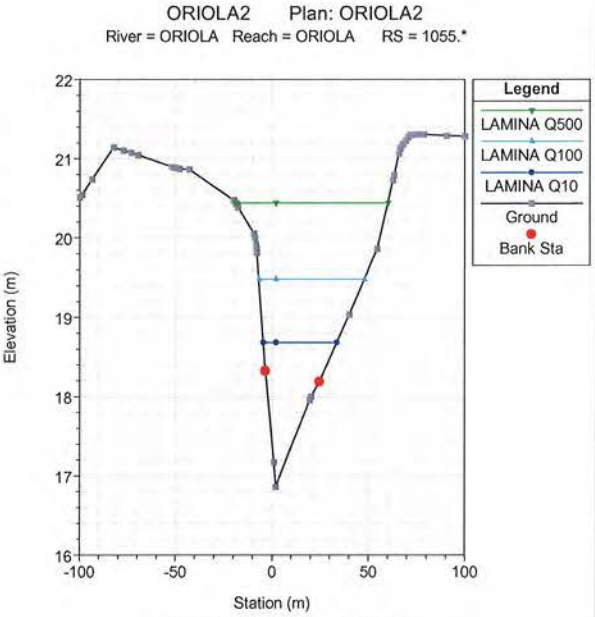
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1075.*

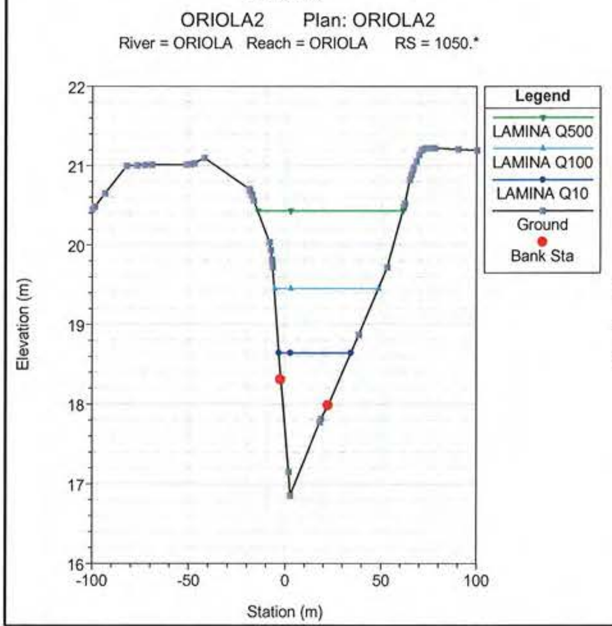


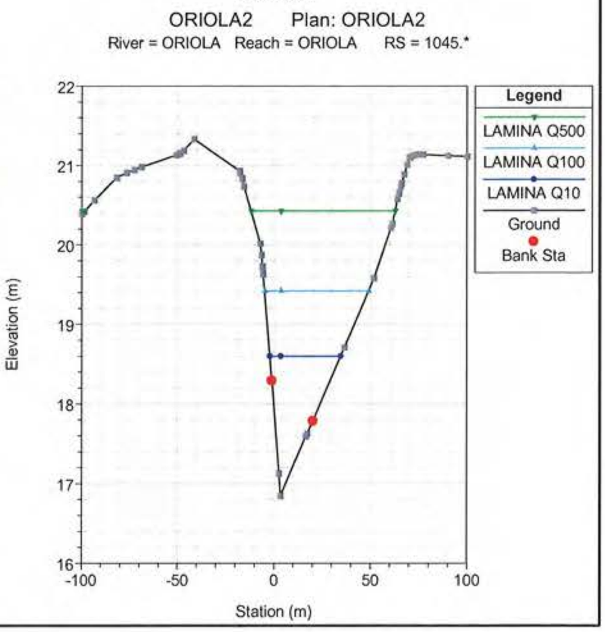

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1070.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1065.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

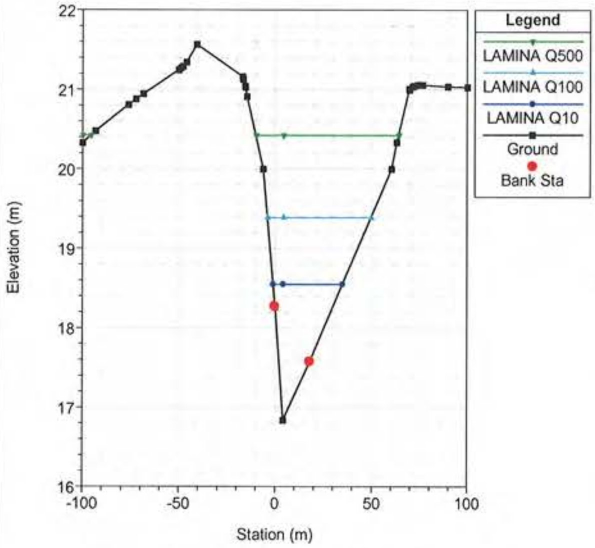

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1060
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1055.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

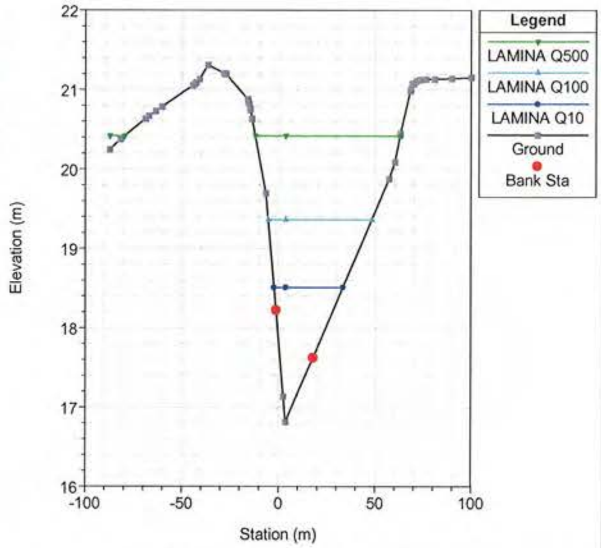

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1050.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1045.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

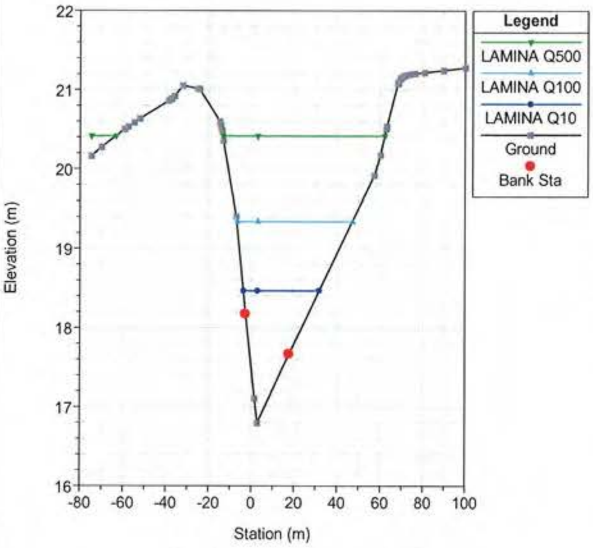
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1040



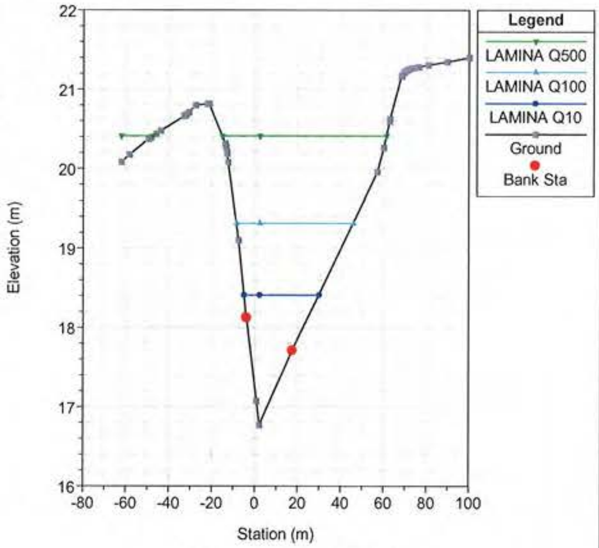
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1035.*



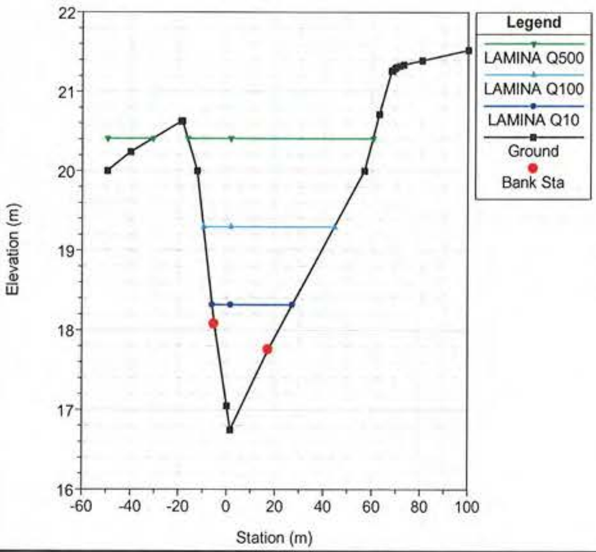
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1030.*



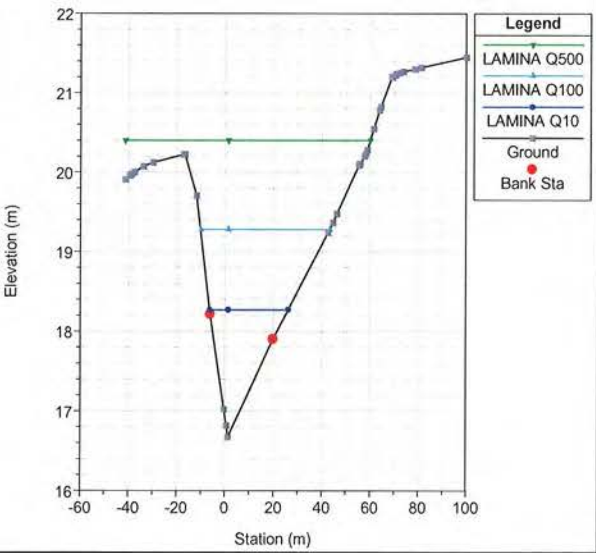
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1025.*



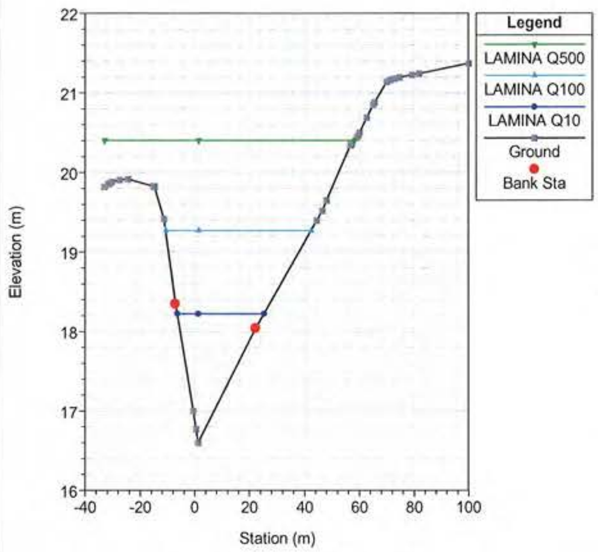
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1020



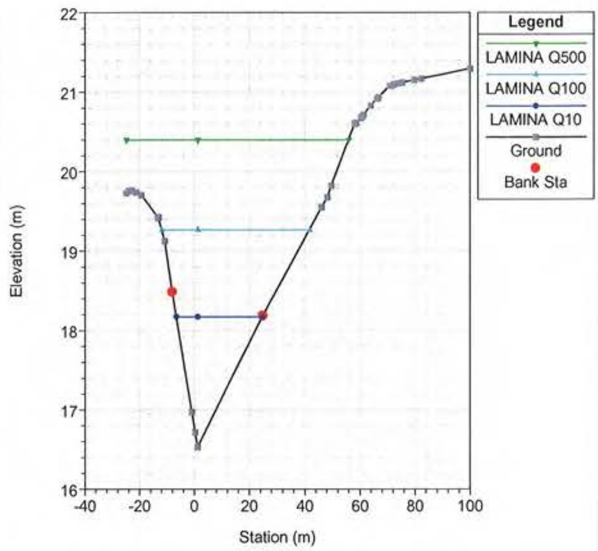
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1015.*



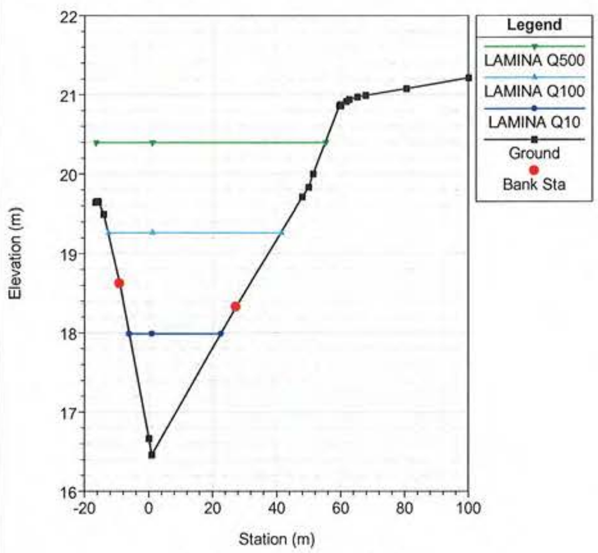
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1010.*



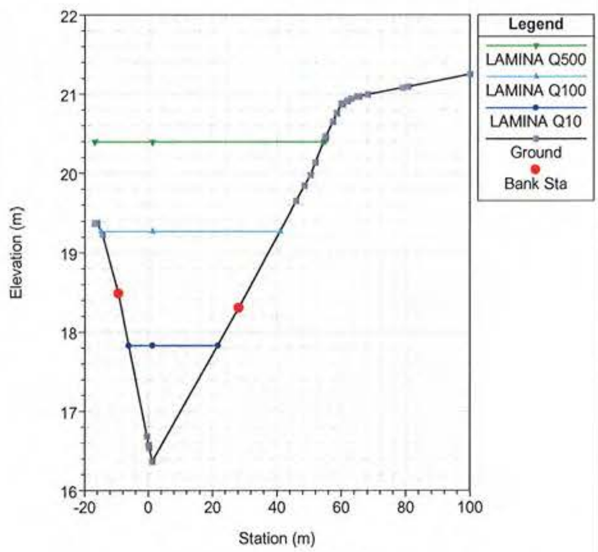
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1005.*



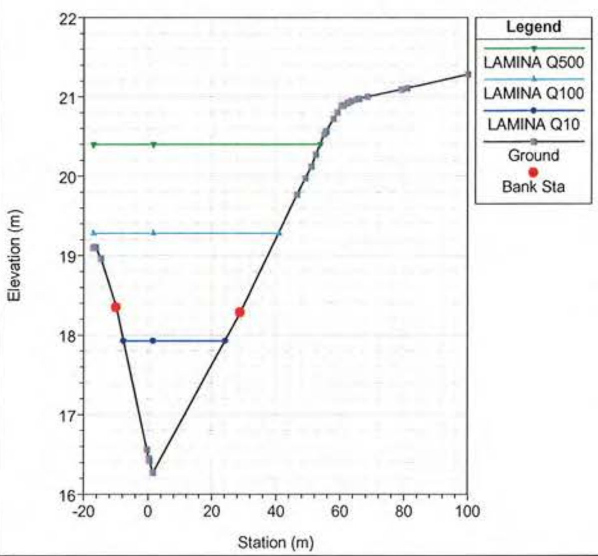
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 1000



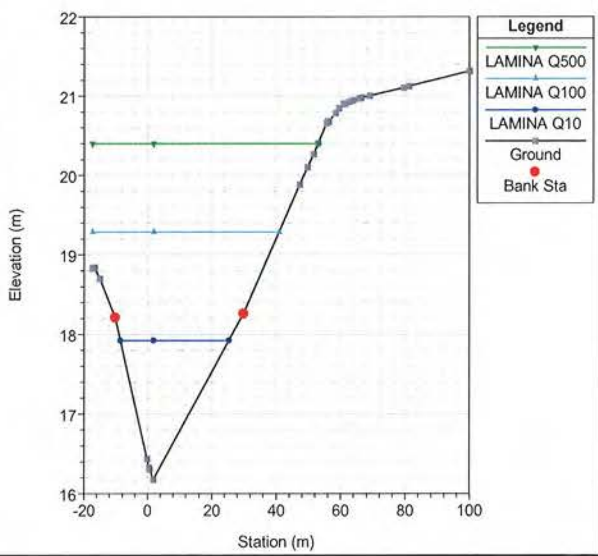
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 995.*



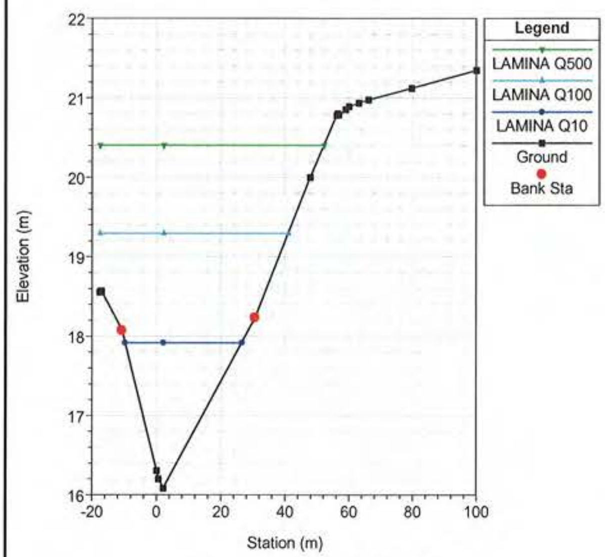
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 990.*



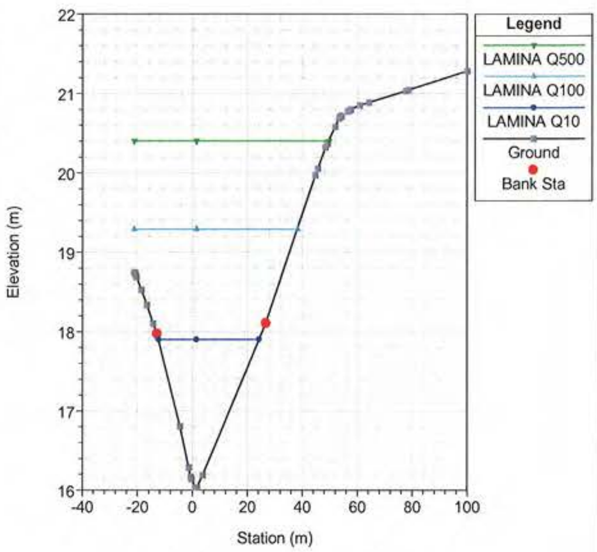
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 985.*



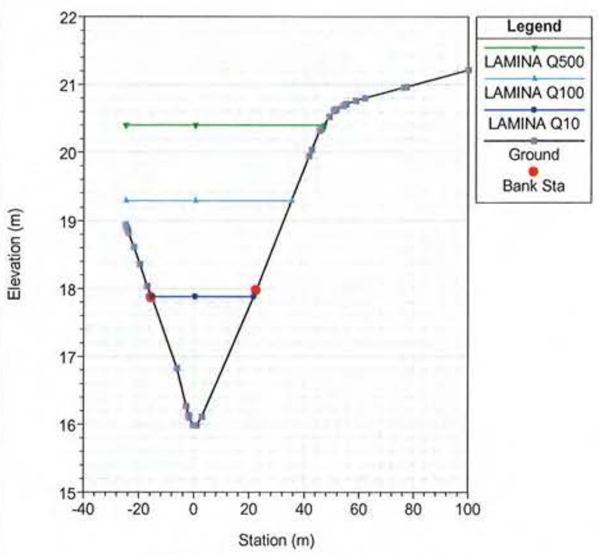
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 980



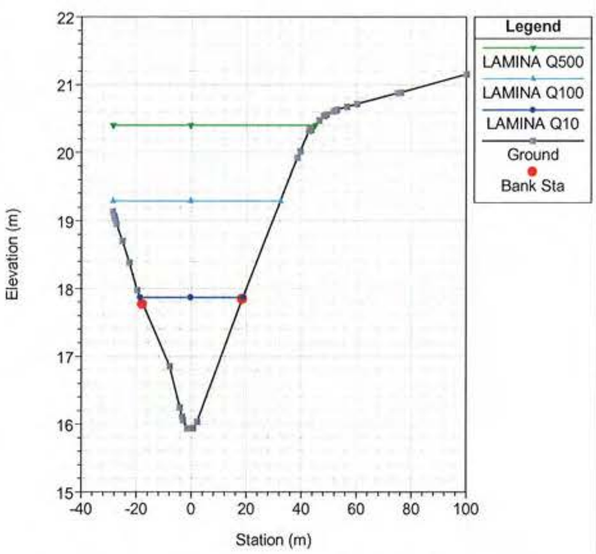
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 975.*



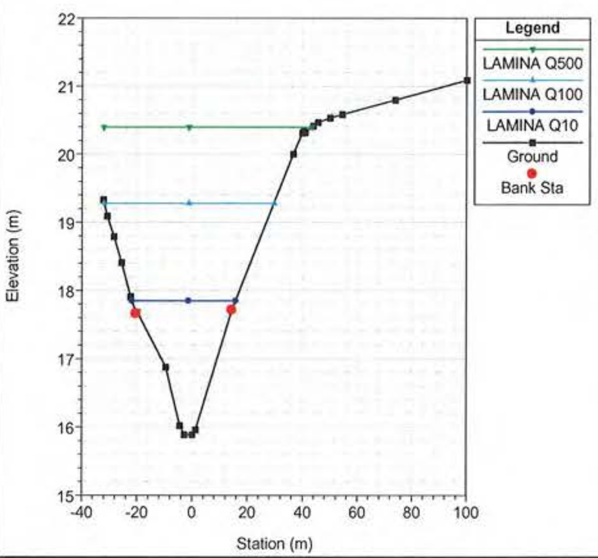
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 970.*



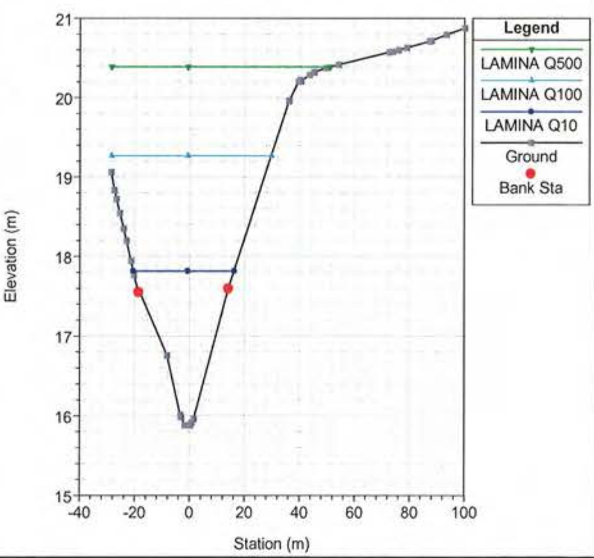
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 965.*



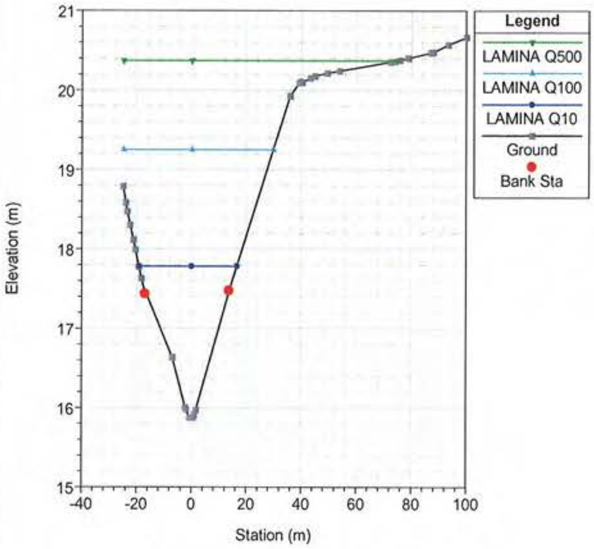
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 960



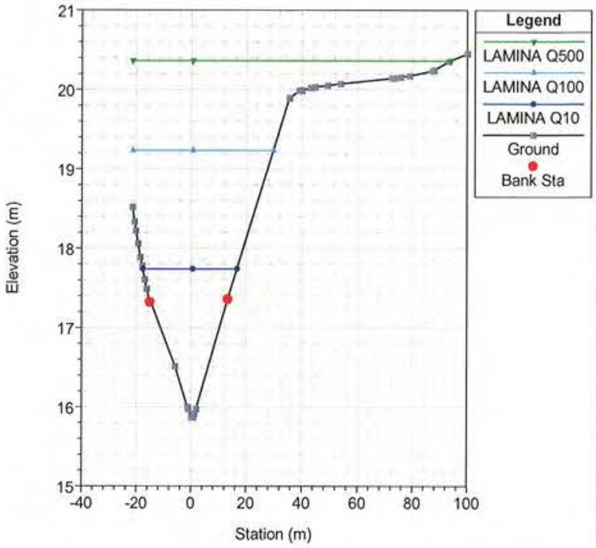
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 955.*



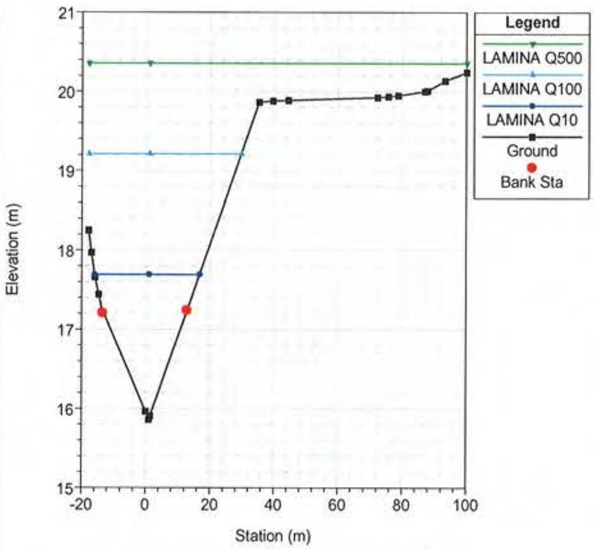
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 950.*



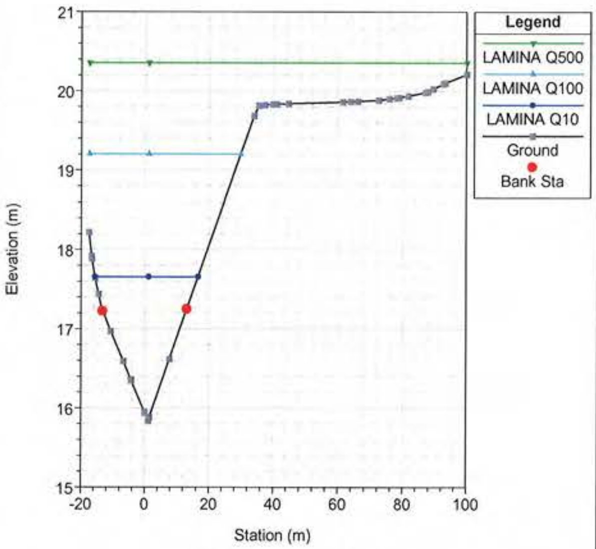
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 945.*



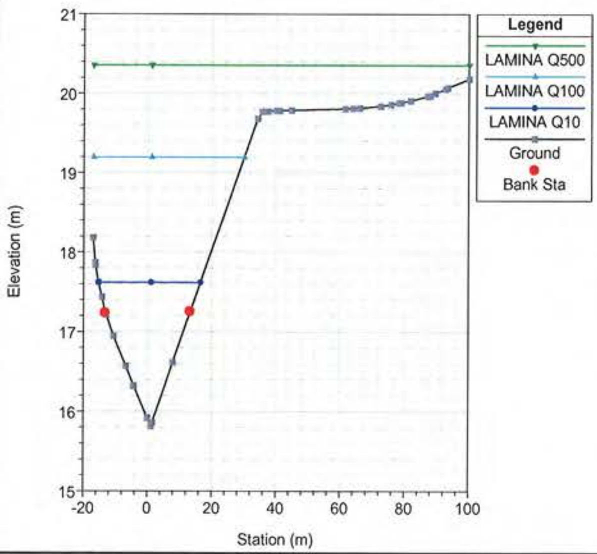
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 940



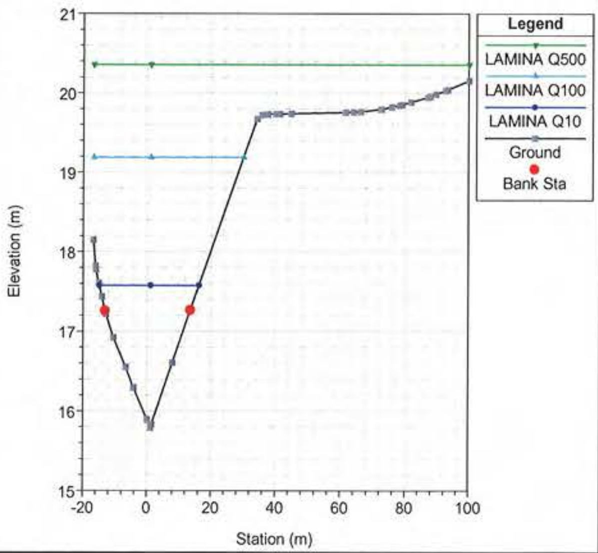
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 935.*

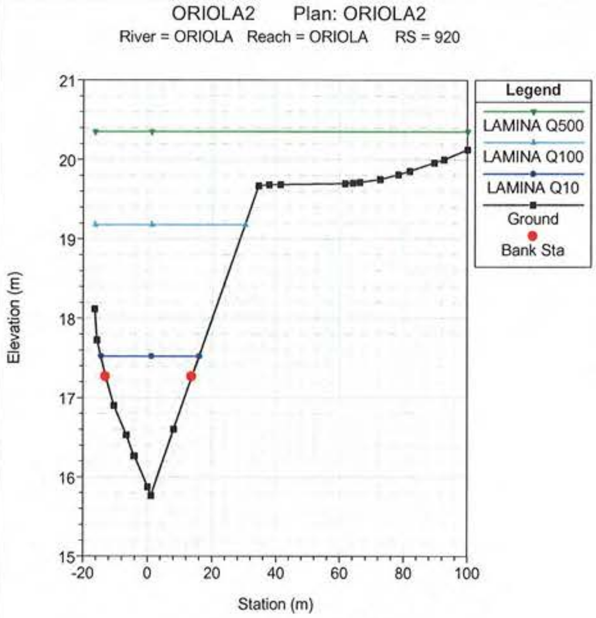


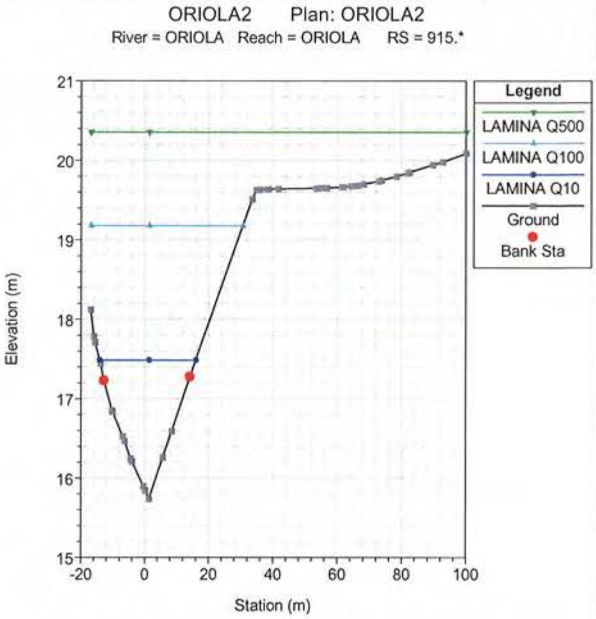
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 930.*

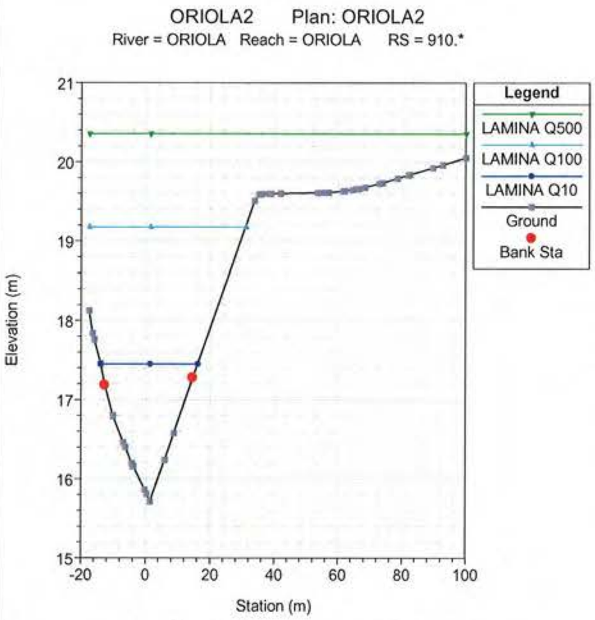


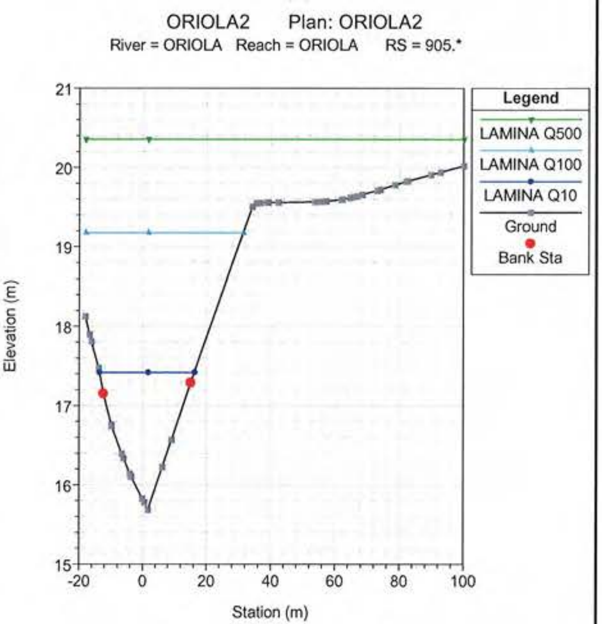
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 925.*

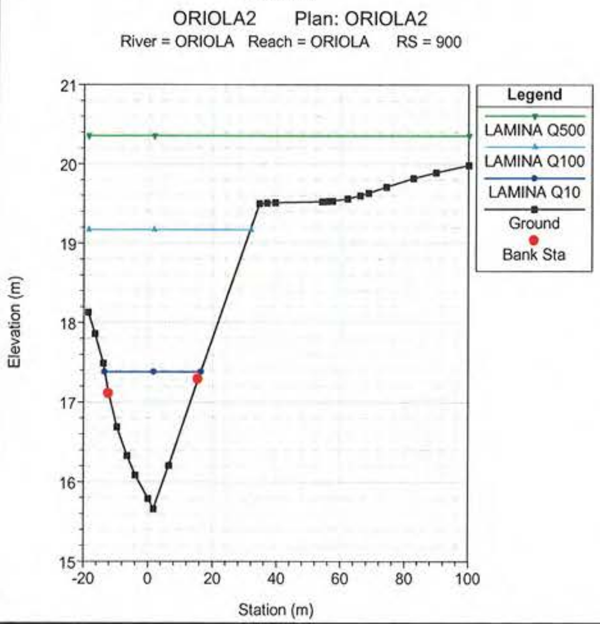


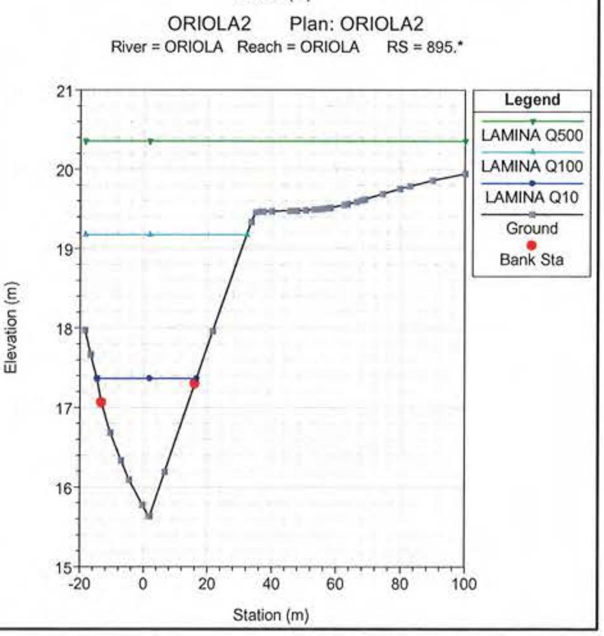

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 920
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

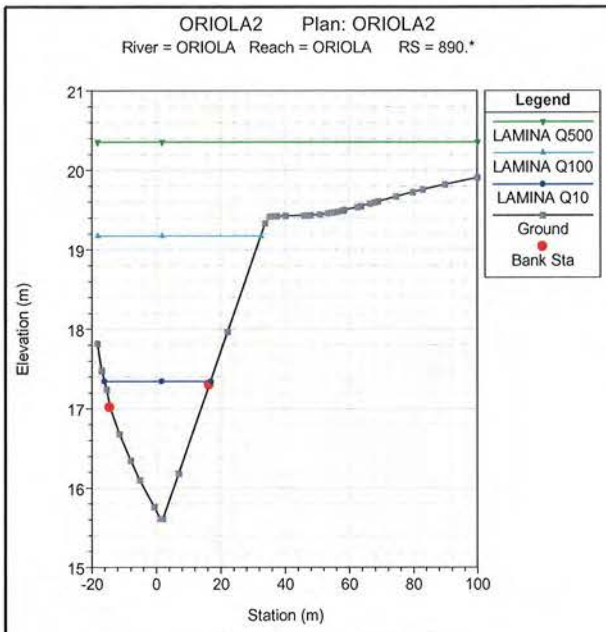

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 915.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

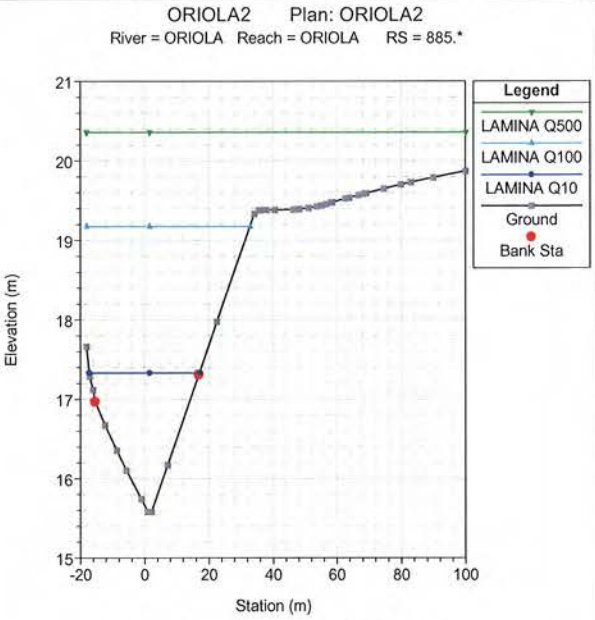

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 910.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

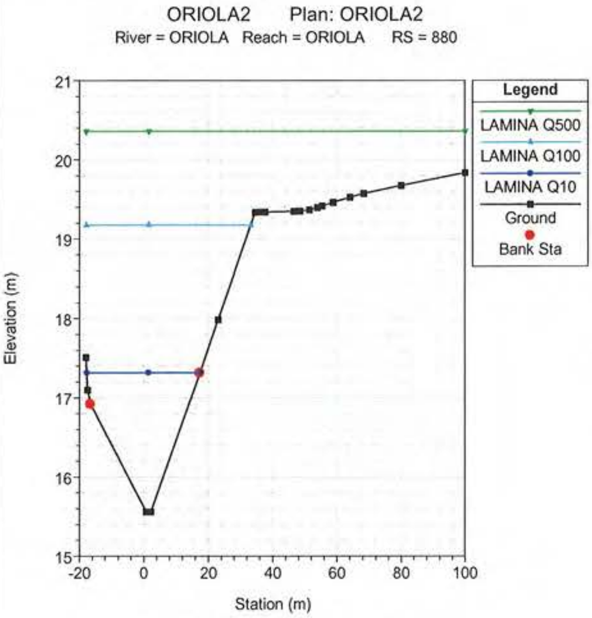

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 905.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

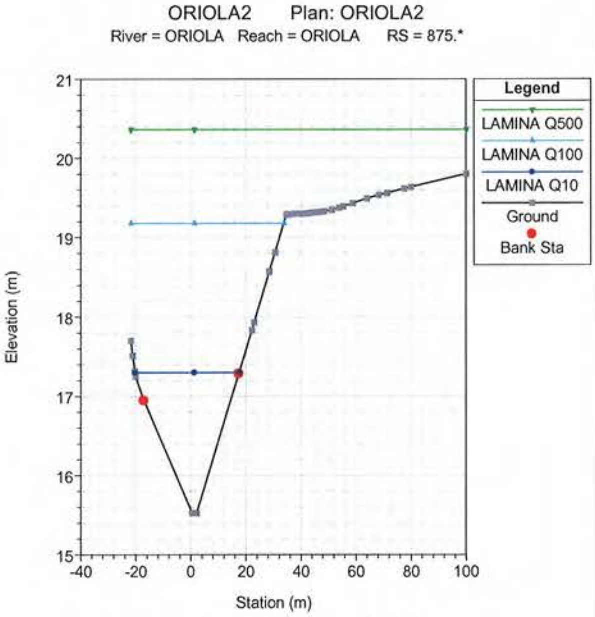

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 900
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

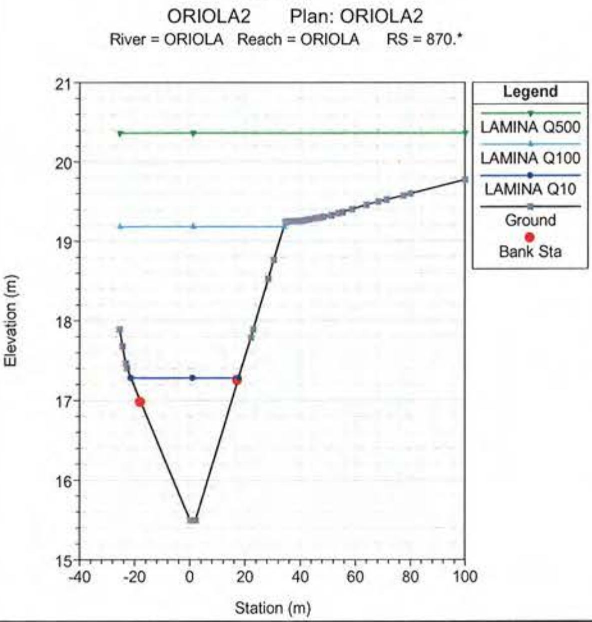

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 895.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

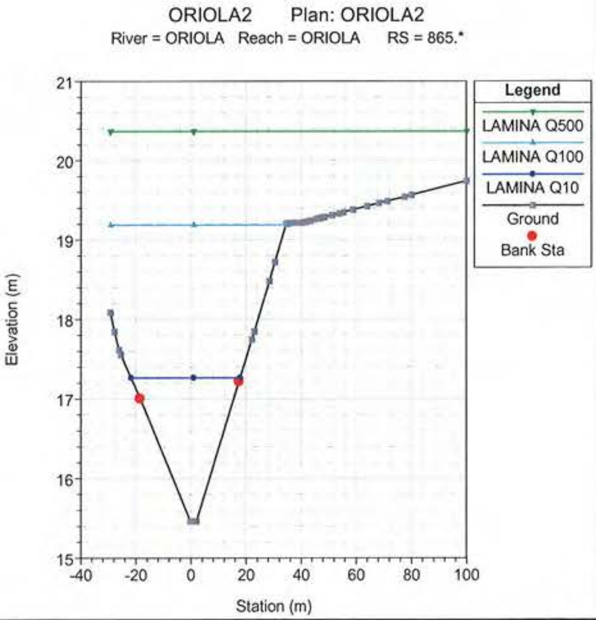

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 890.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

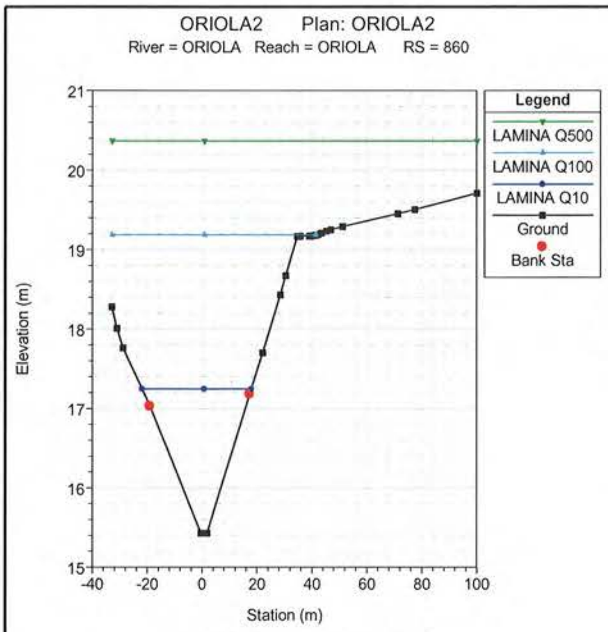

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 885.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

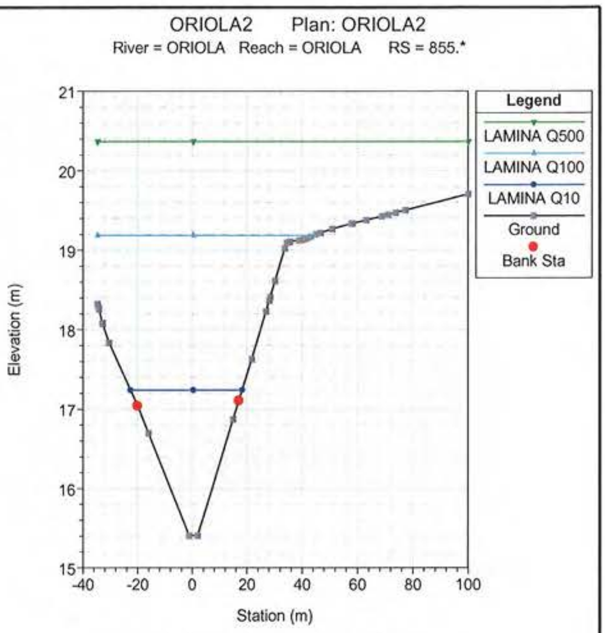

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 880
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

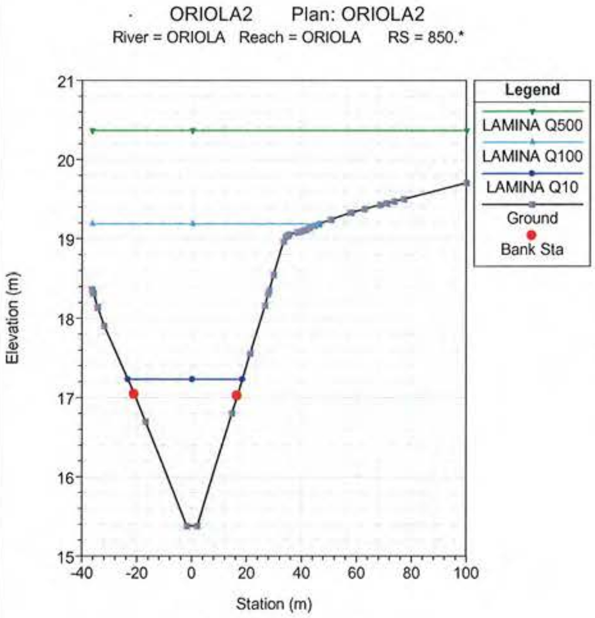

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 875.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

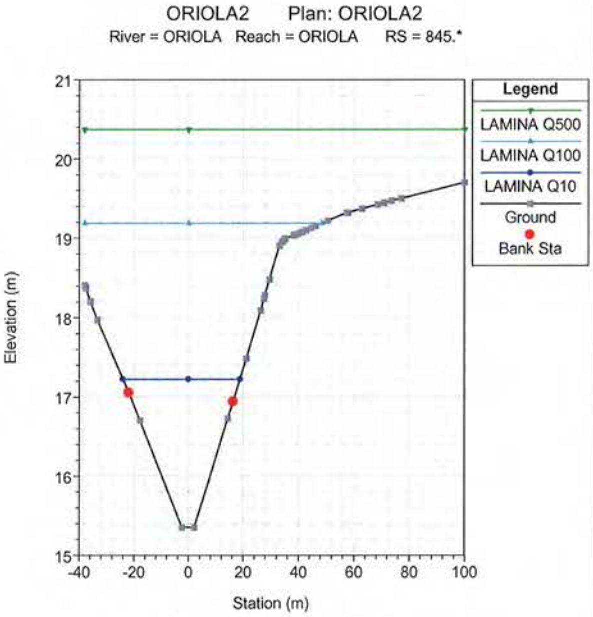

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 870.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

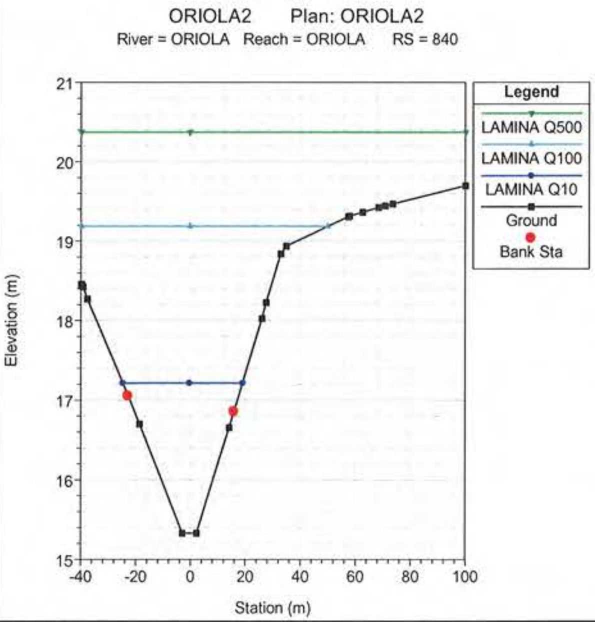

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 865.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

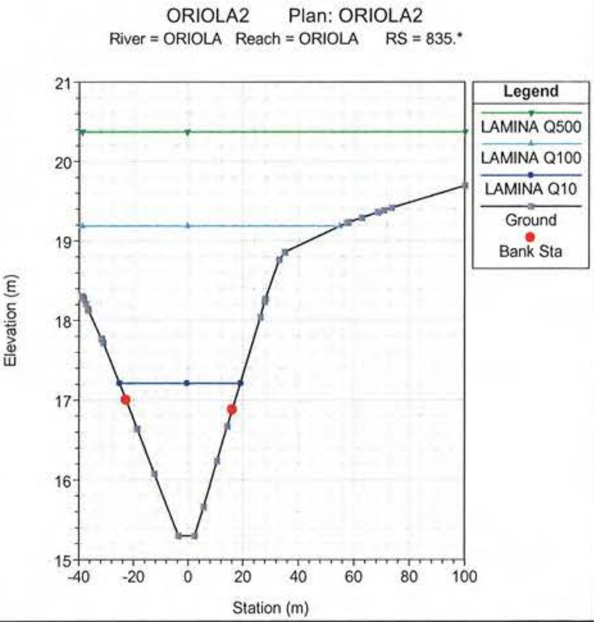

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 860
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

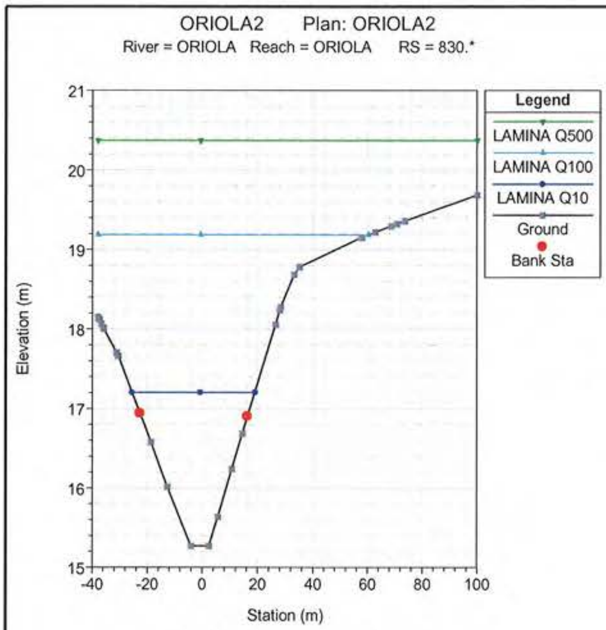

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 855.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

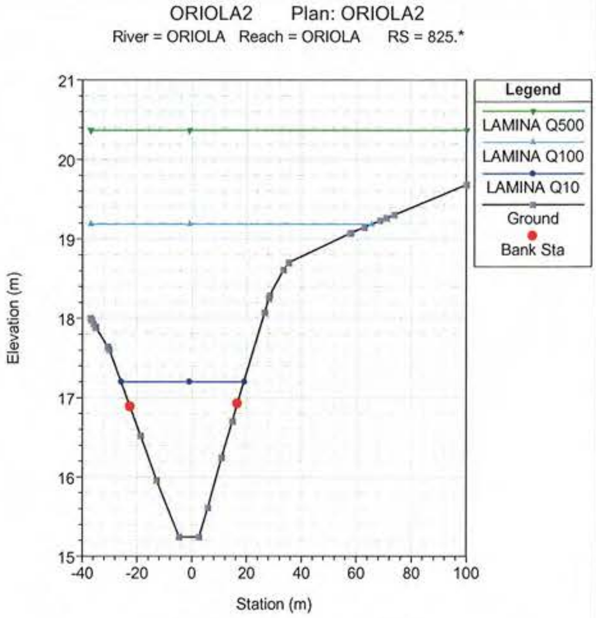

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 850.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

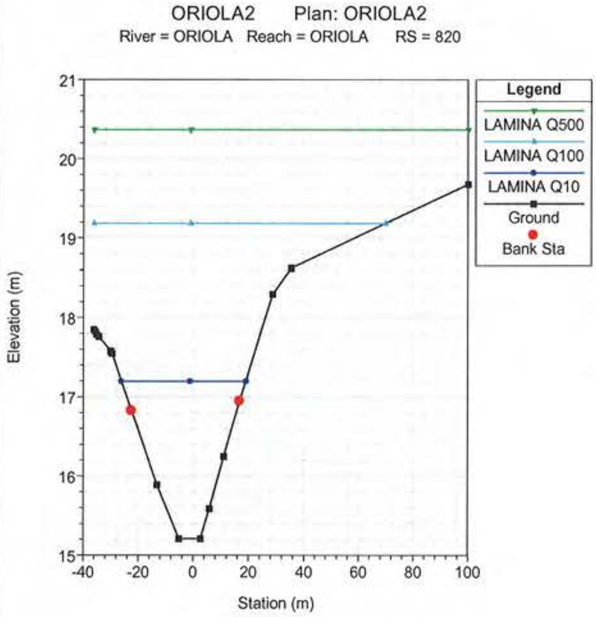

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 845.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

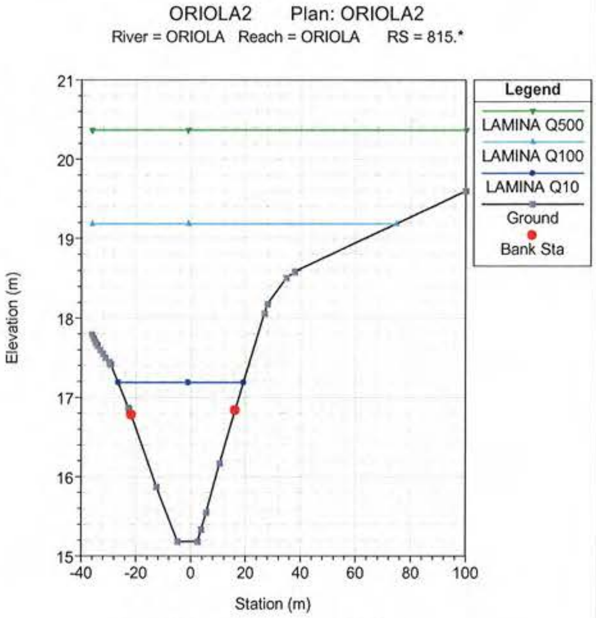

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 840
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

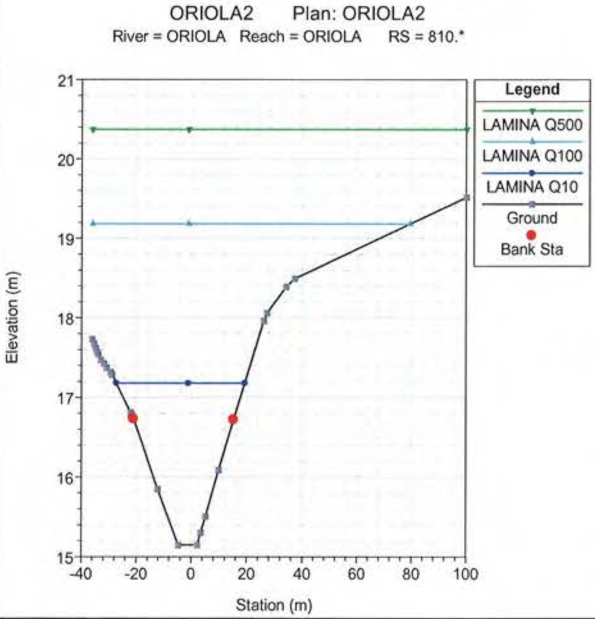

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 835.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15 16 17 18 19 20 21
-40 -20 0 20 40 60 80 100

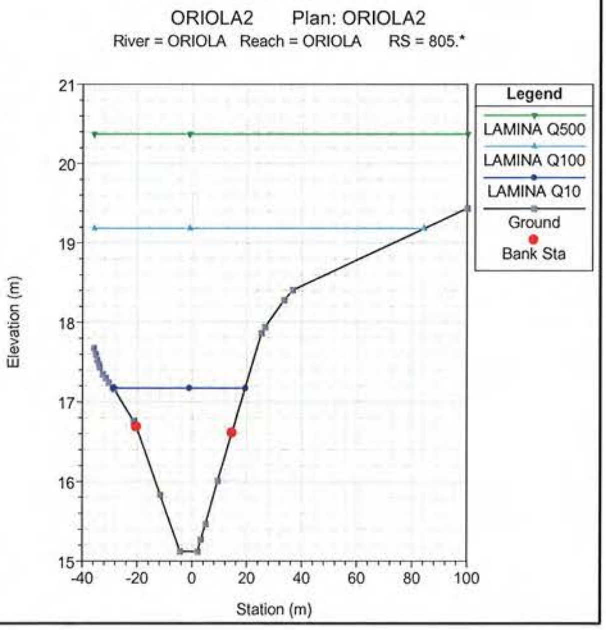

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 830.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 825.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

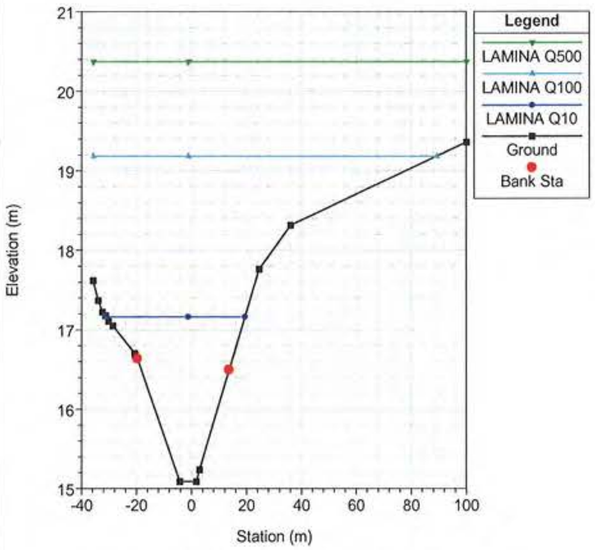

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 820
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 815.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

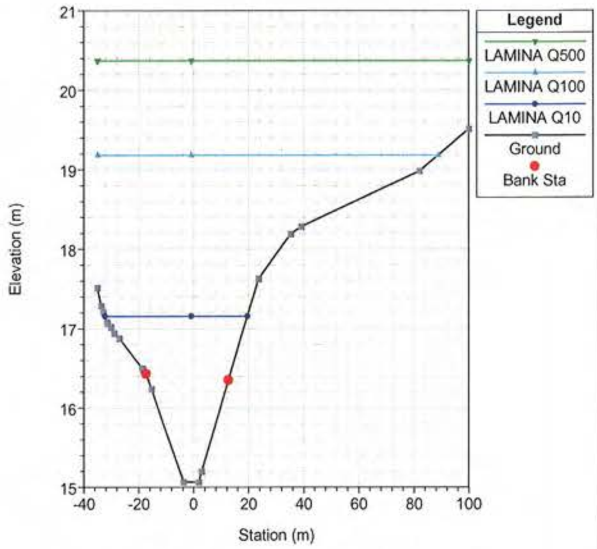

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 810.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 805.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

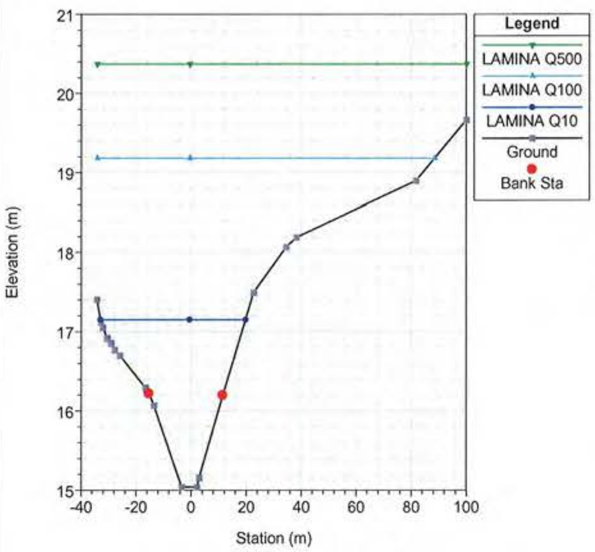
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 800



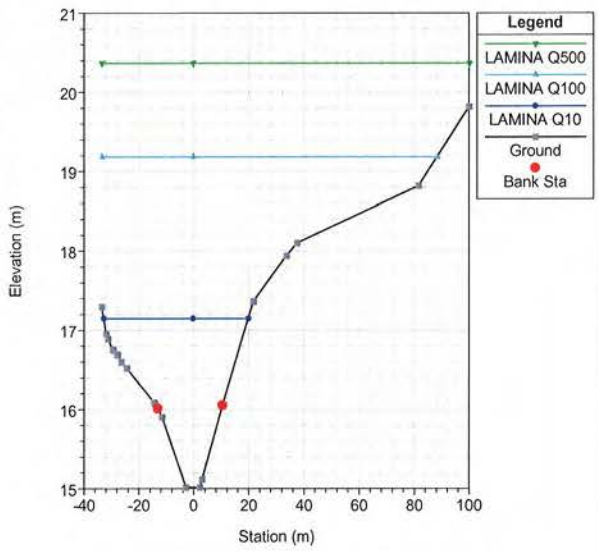
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 795.*



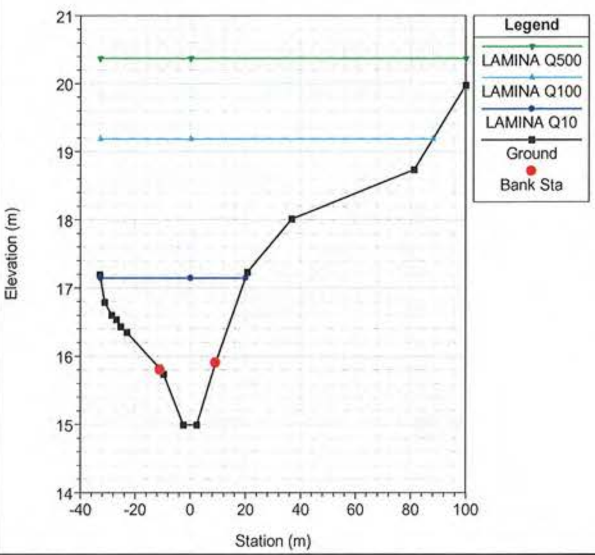
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 790.*



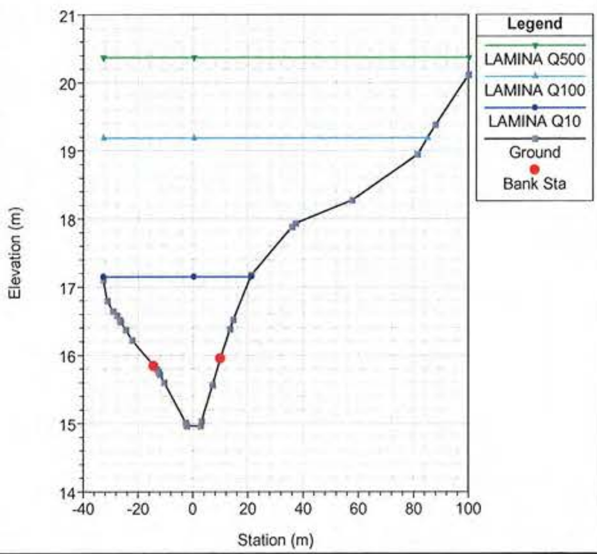
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 785.*

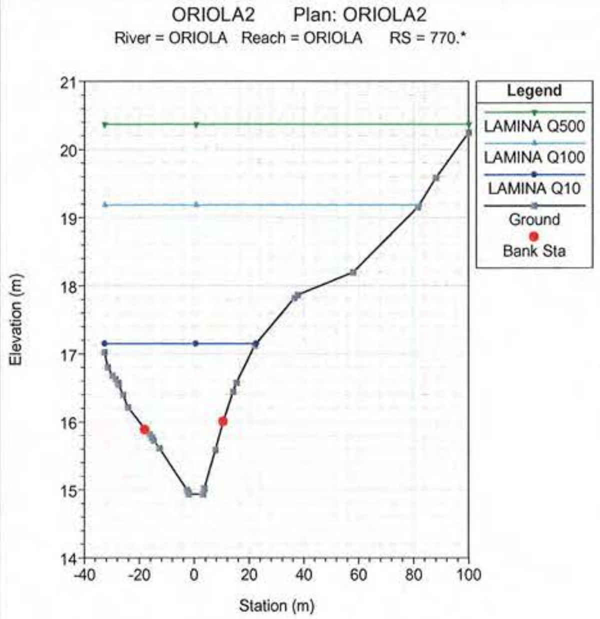


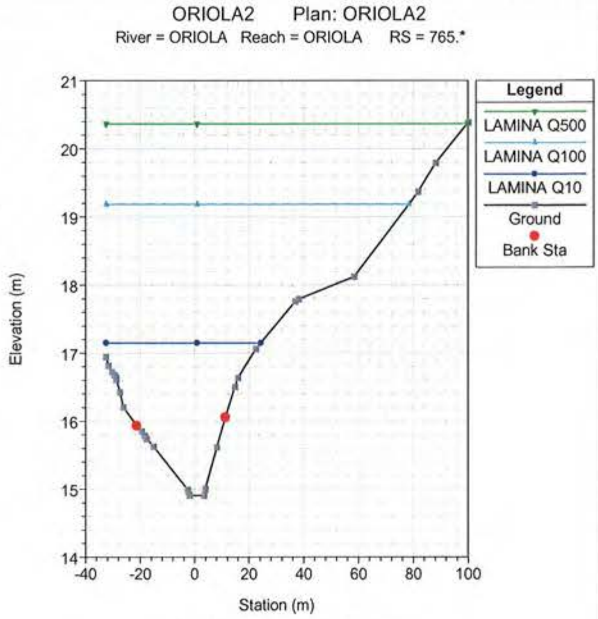
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 780

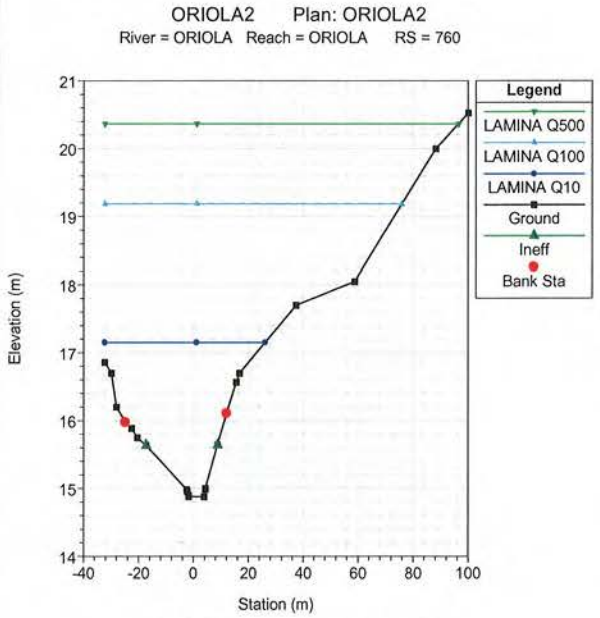


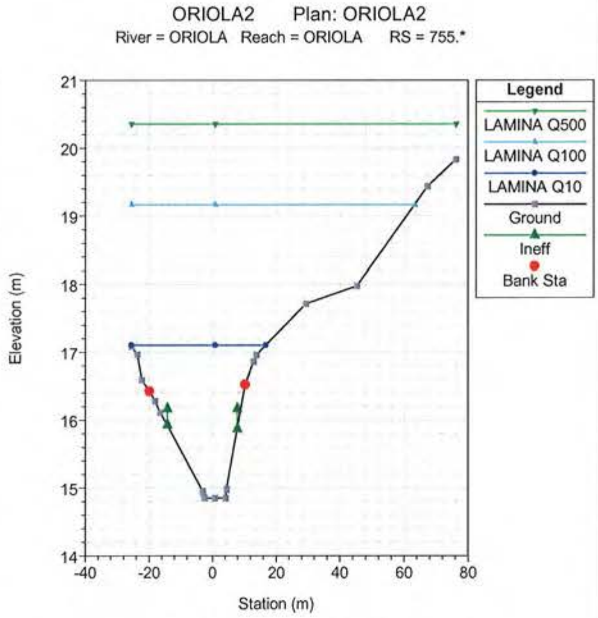
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 775.*

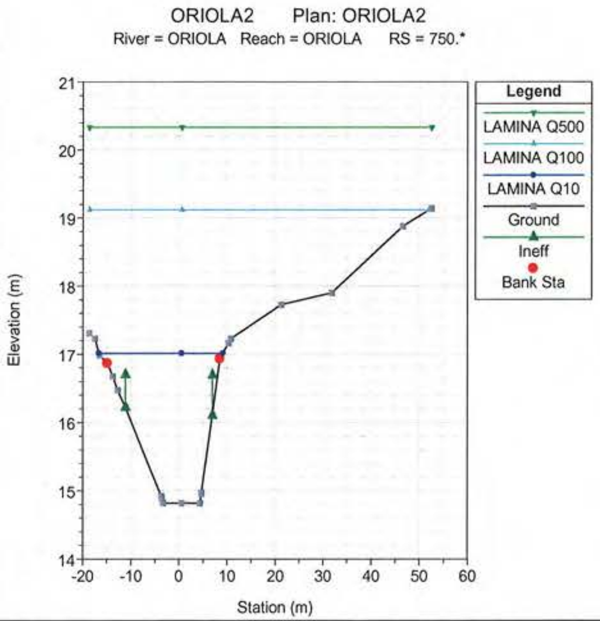


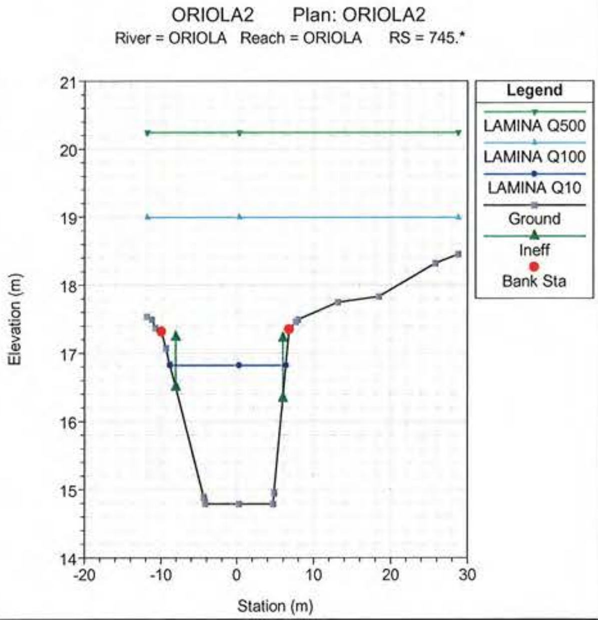

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 770.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

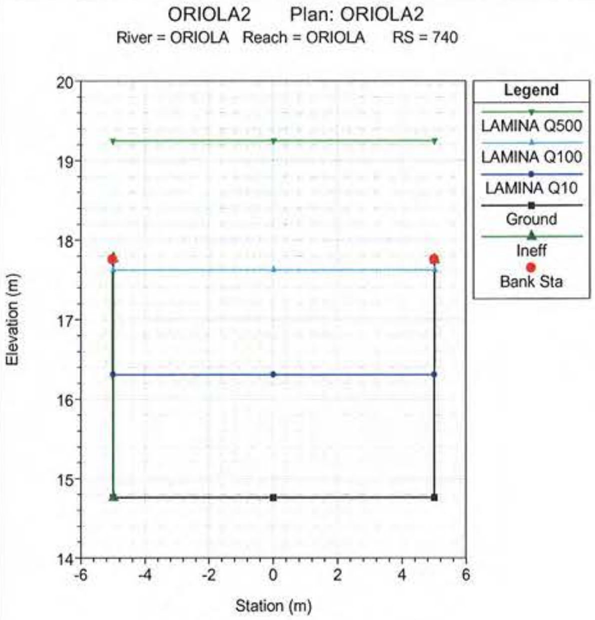

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 765.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

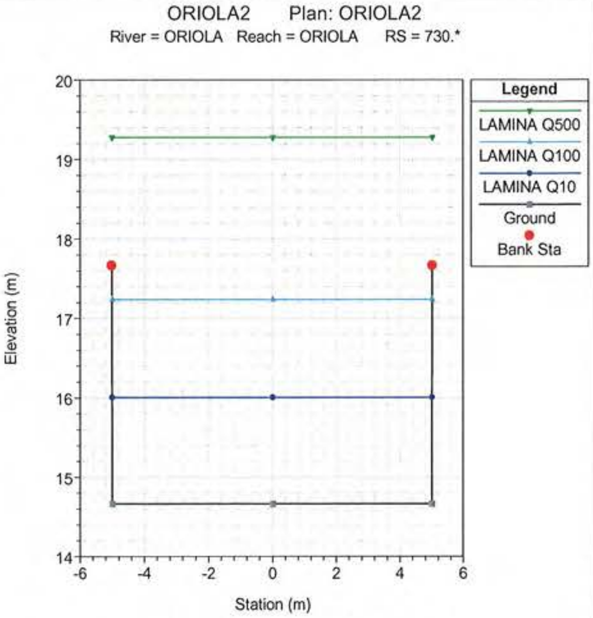

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 760
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

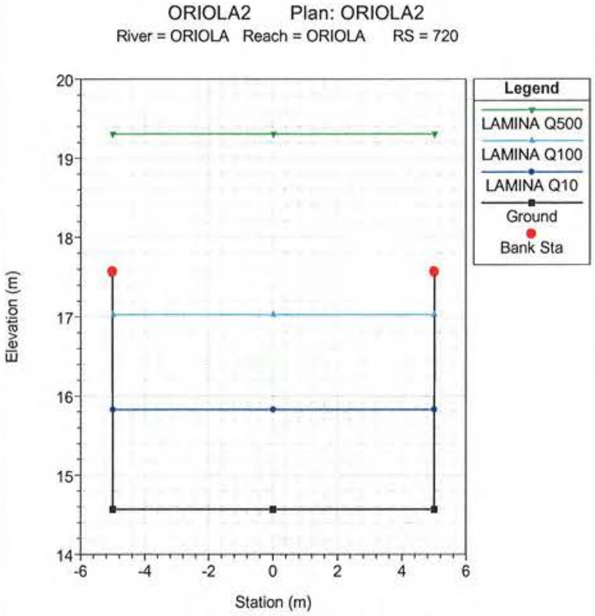

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 755.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

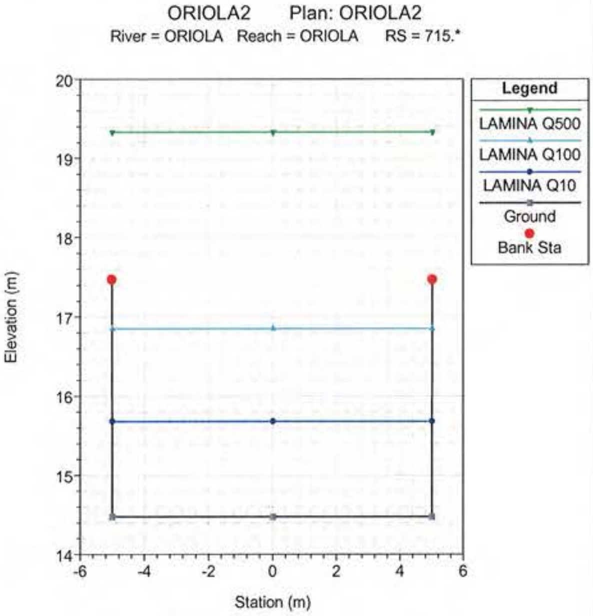

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 750.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

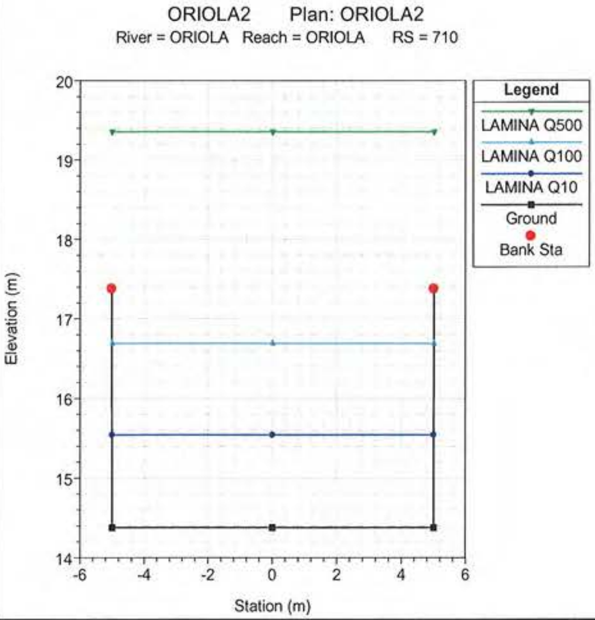

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 745.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

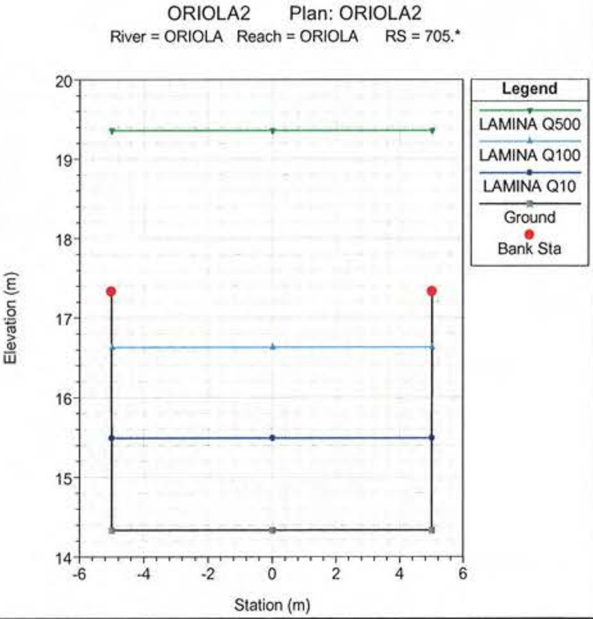

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 740
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 730.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

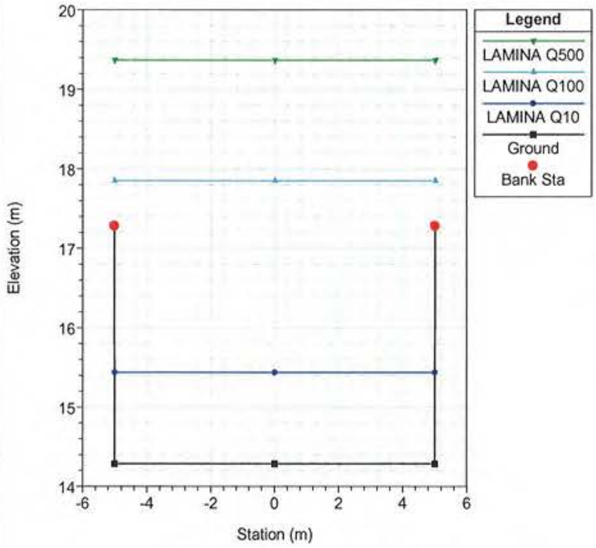

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 720
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 715.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

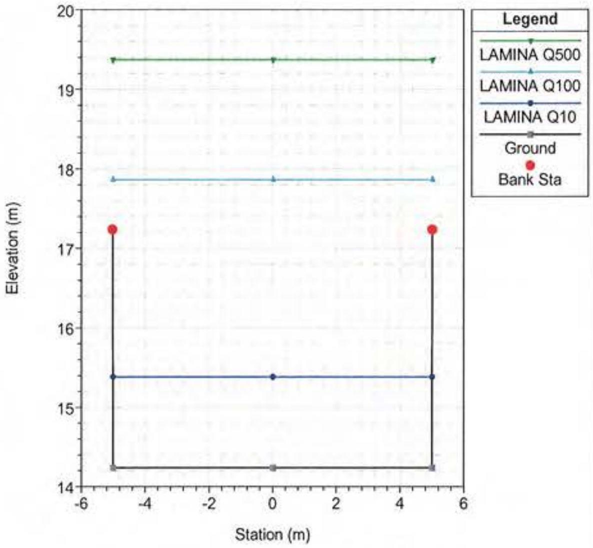

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 710
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 705.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

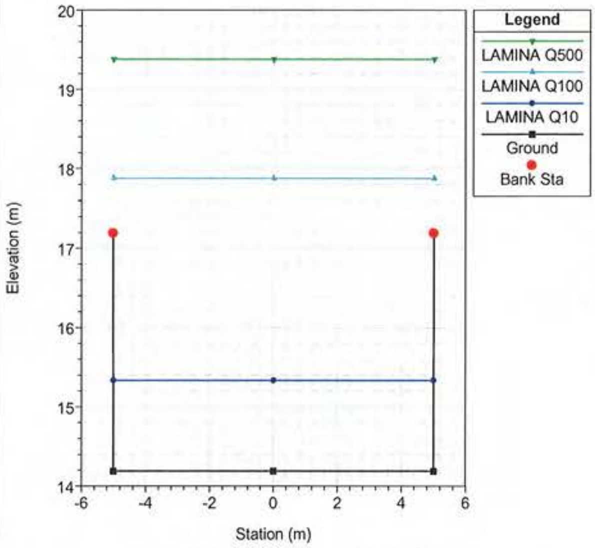
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 700



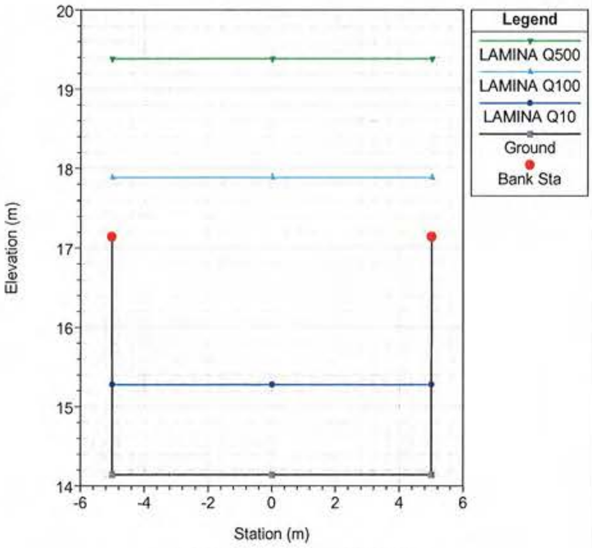
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 695.*



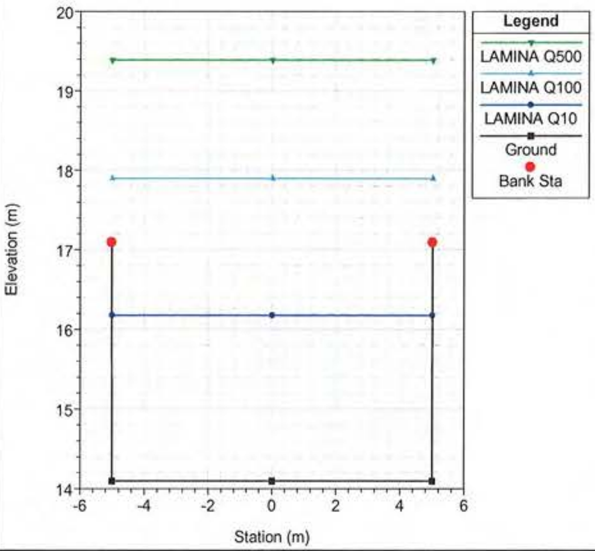
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 690



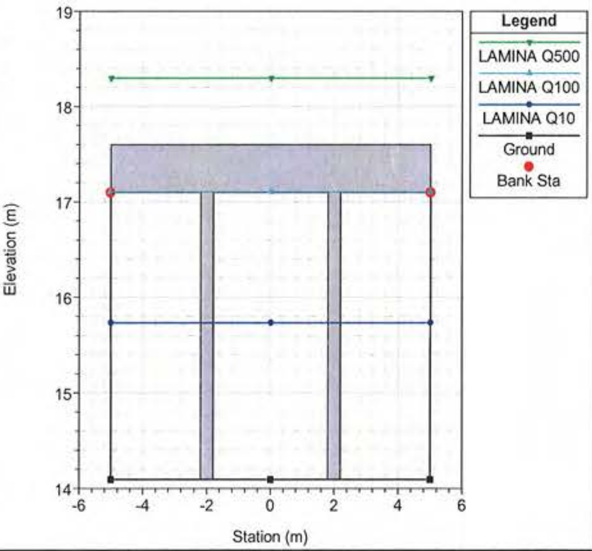
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 685.*

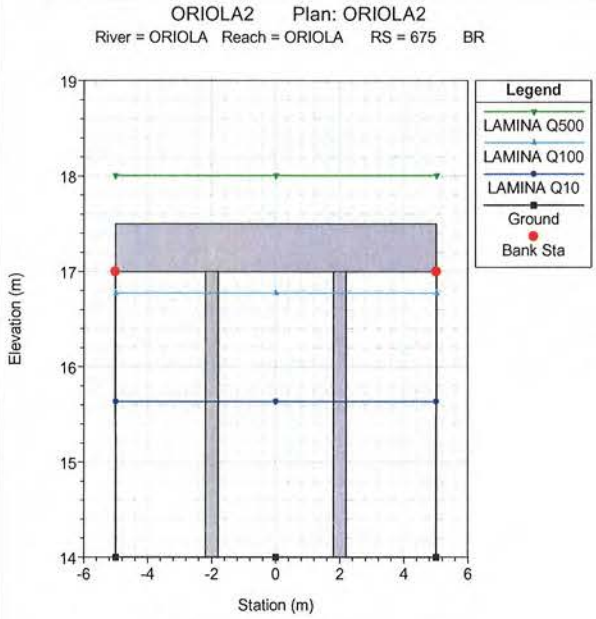


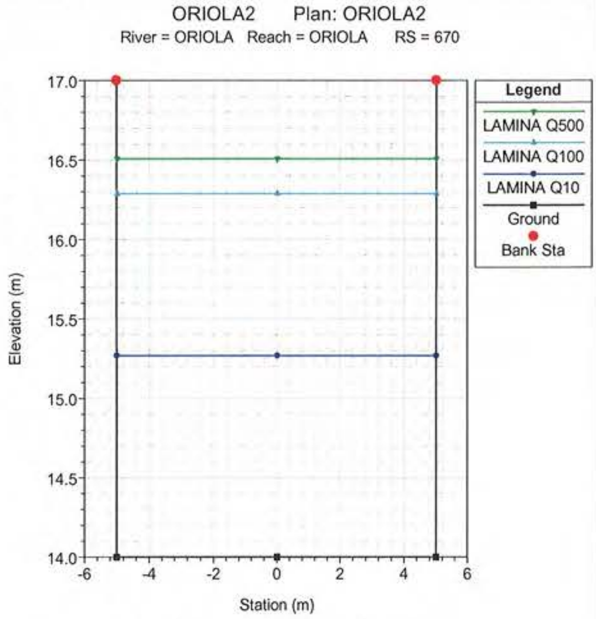
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 680

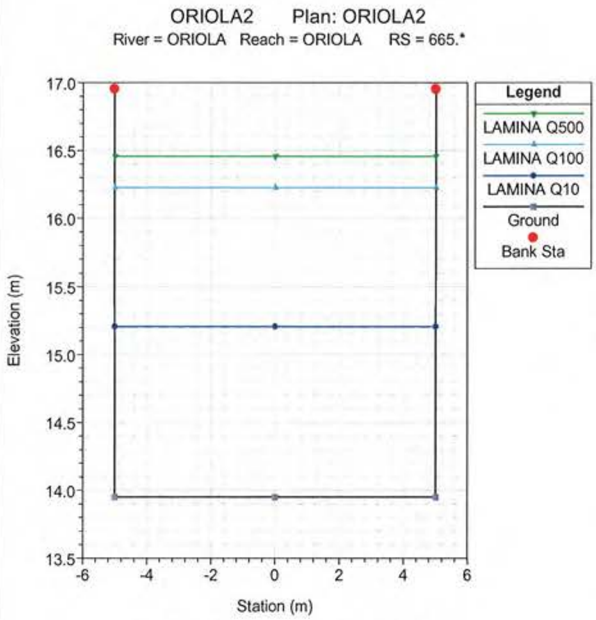


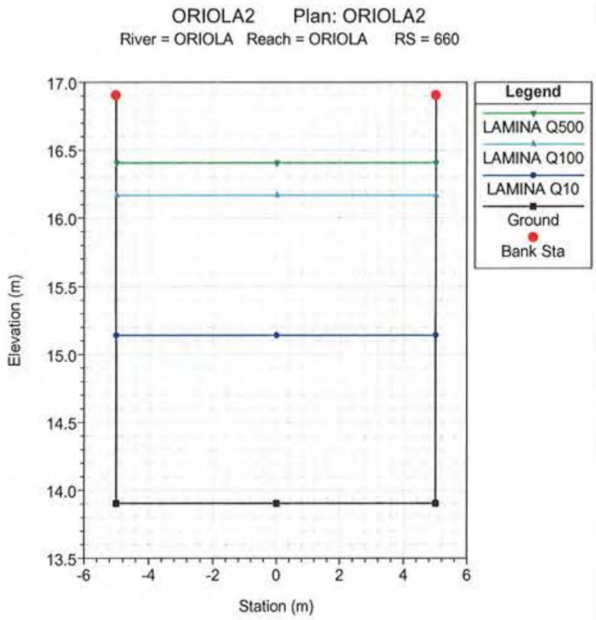
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 675 BR

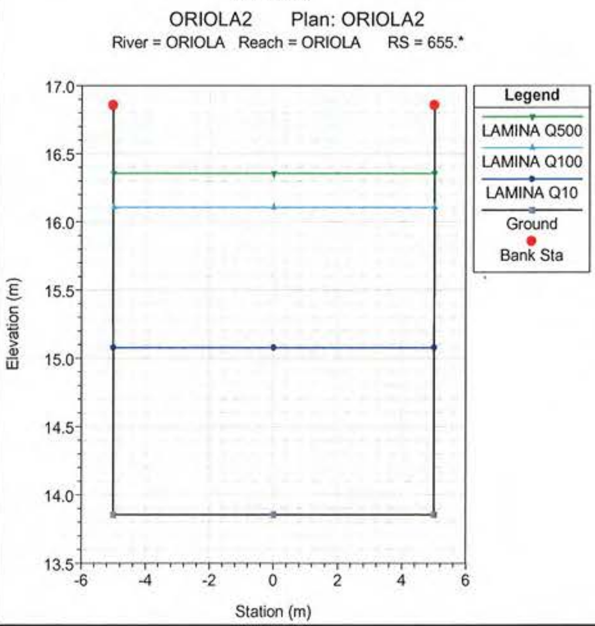


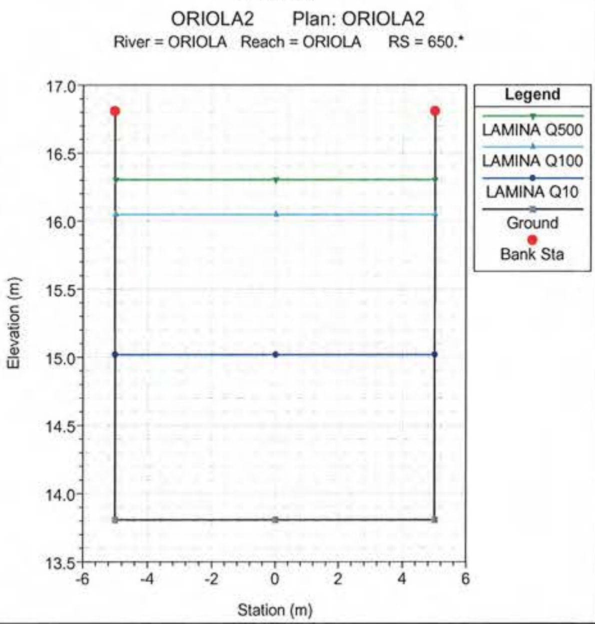

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 675 BR
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
19
18
17
16
15
14
-6
-4
-2
0
2
4
6

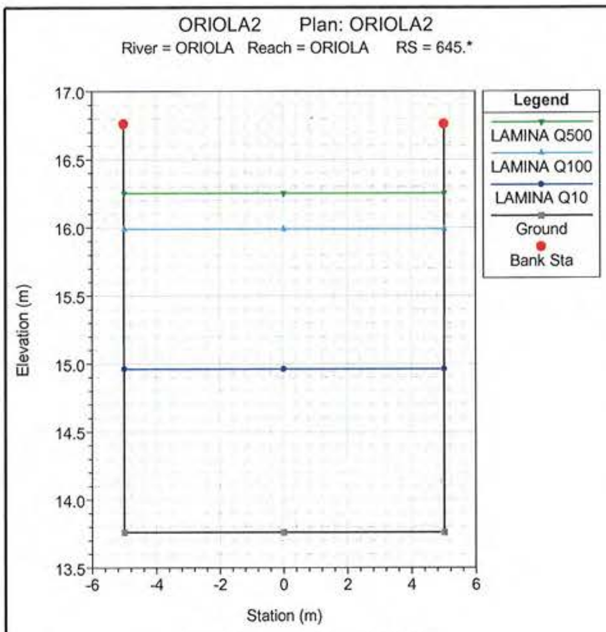

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 670
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
17.0
16.5
16.0
15.5
15.0
14.5
14.0
-6
-4
-2
0
2
4
6

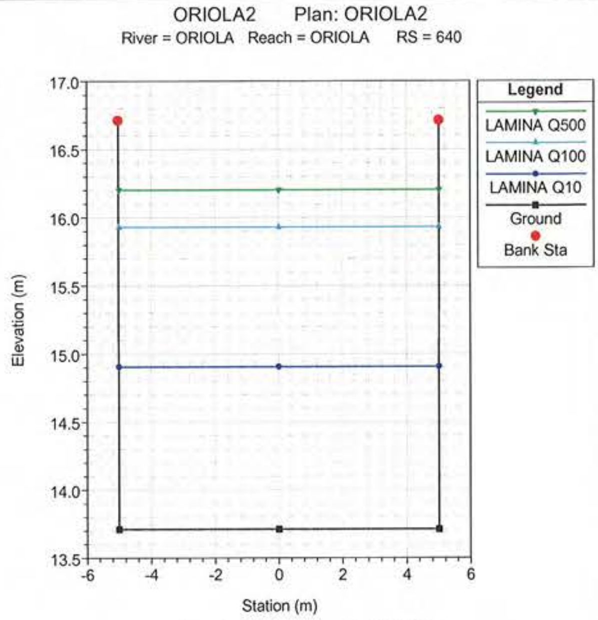

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 665.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
-6
-4
-2
0
2
4
6

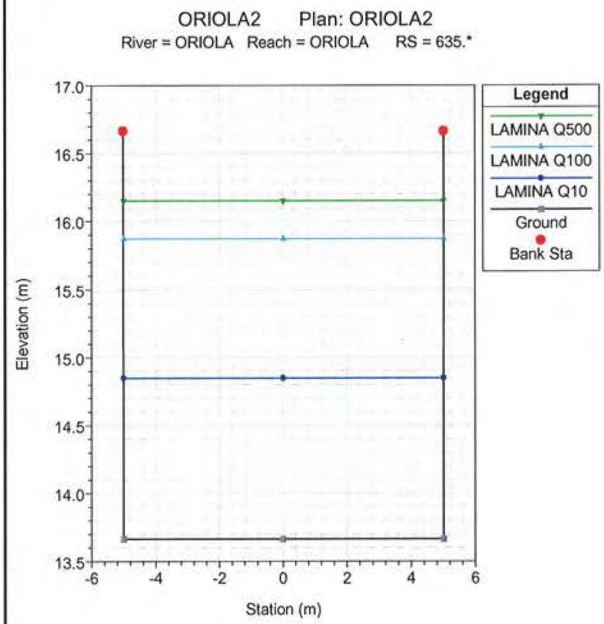

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 660
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
-6
-4
-2
0
2
4
6

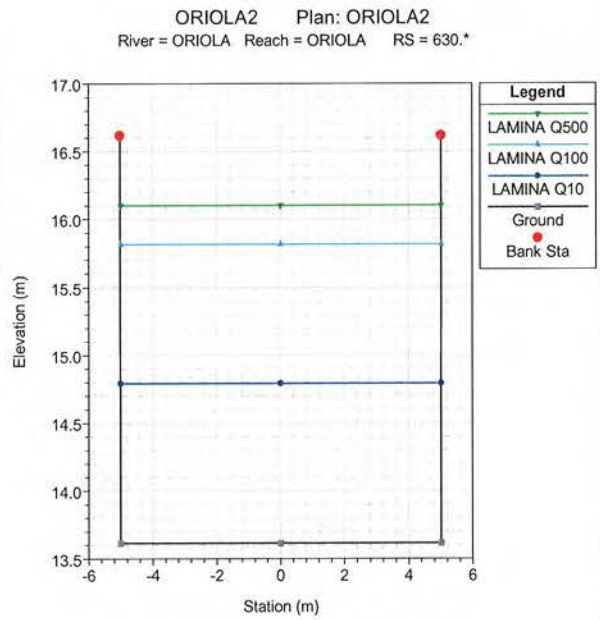

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 655.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
-6
-4
-2
0
2
4
6

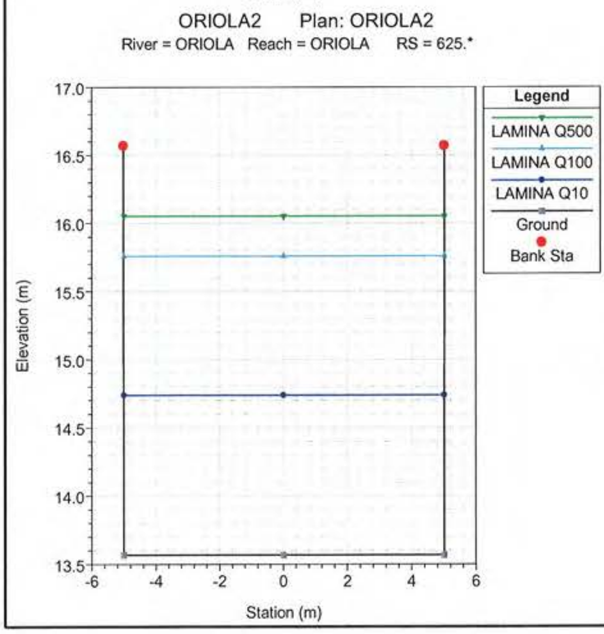

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 650.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
-6
-4
-2
0
2
4
6

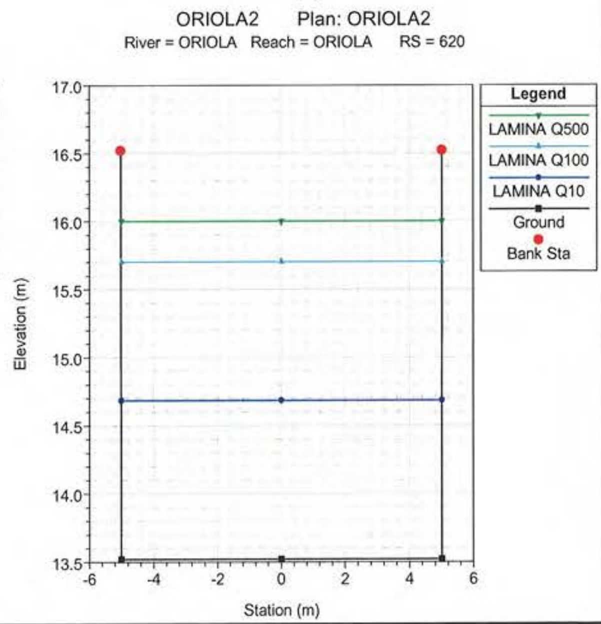

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 645.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

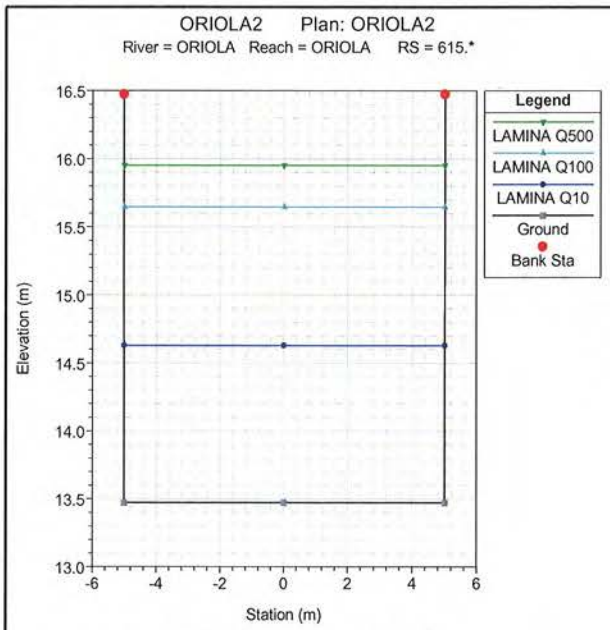

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 640
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

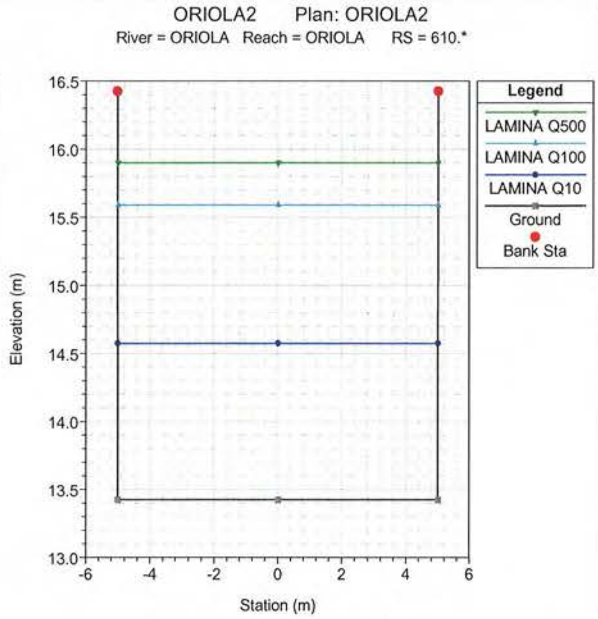

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 635.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

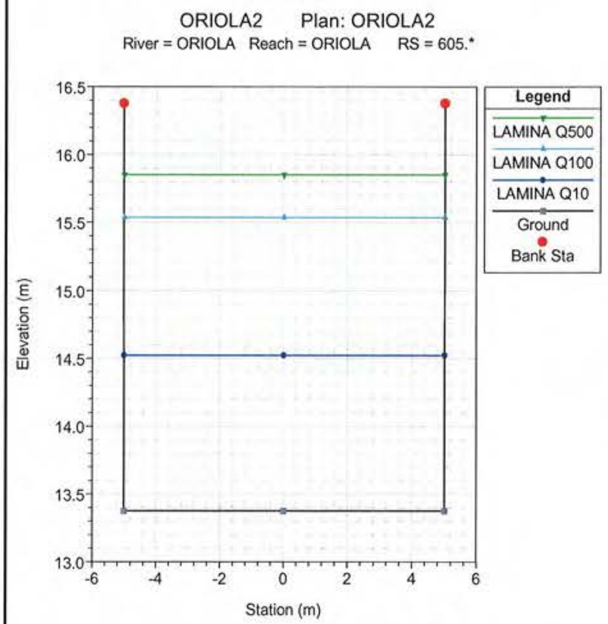

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 630.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

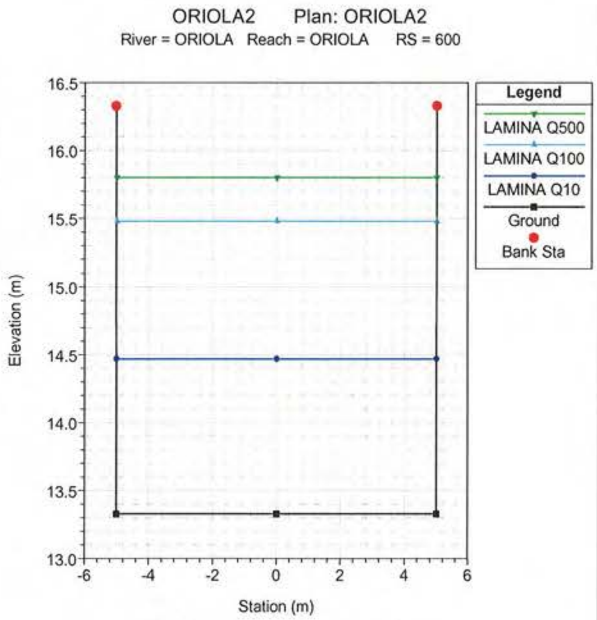

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 625.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

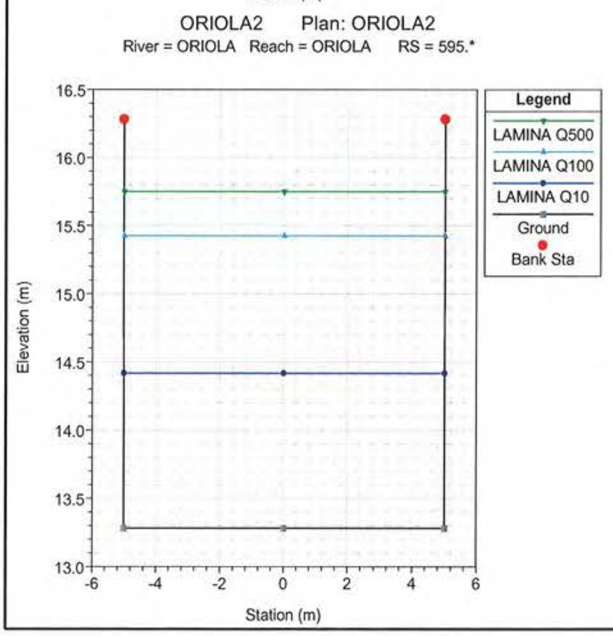

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 620
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

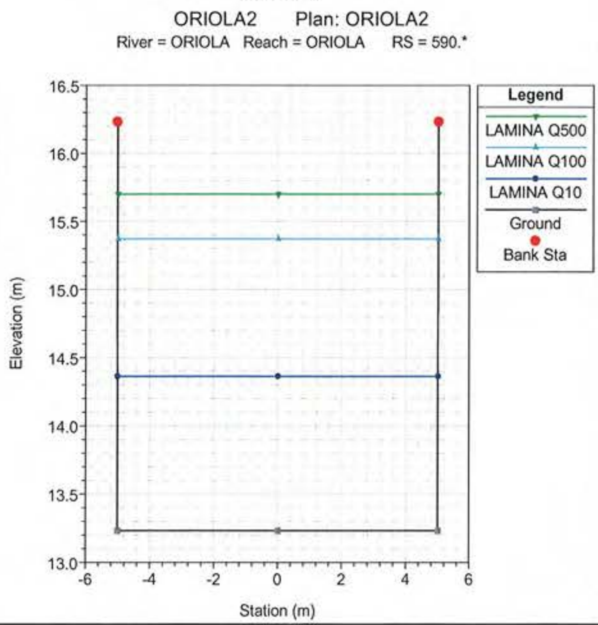

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 615.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

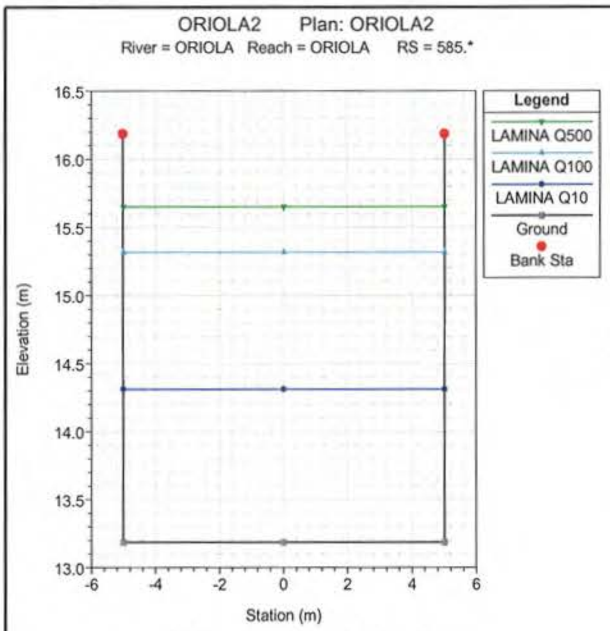

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 610.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

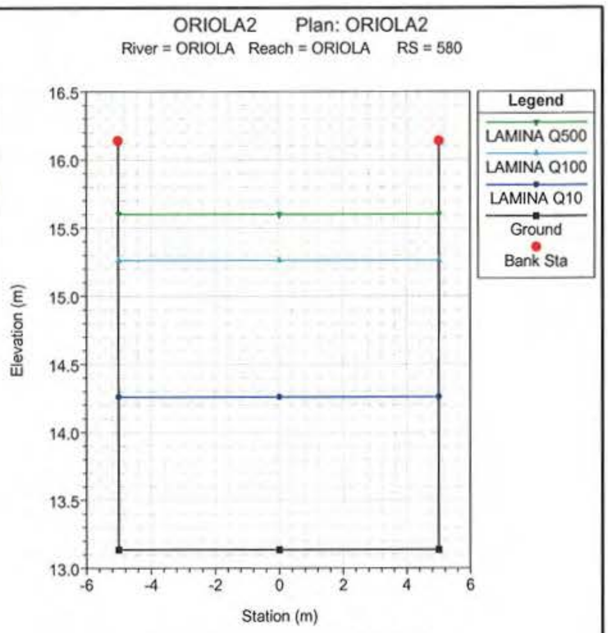

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 605.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

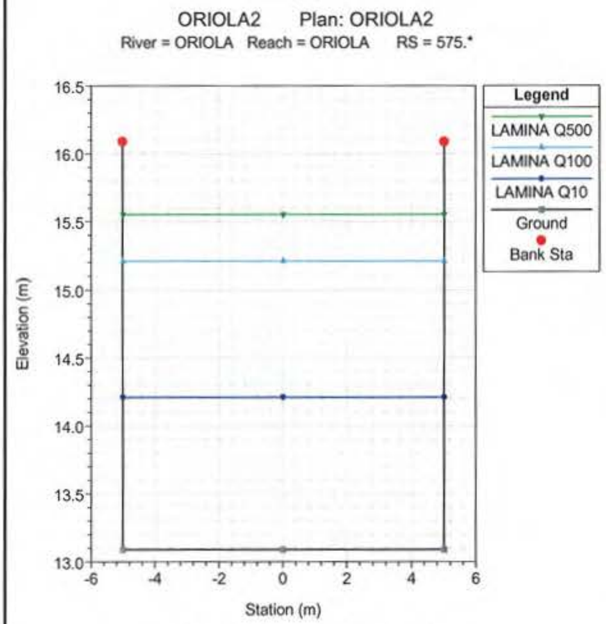

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 600
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

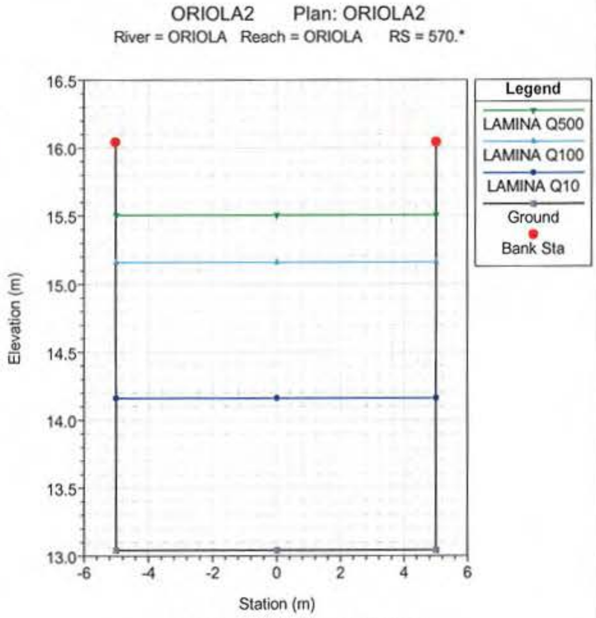

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 595.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

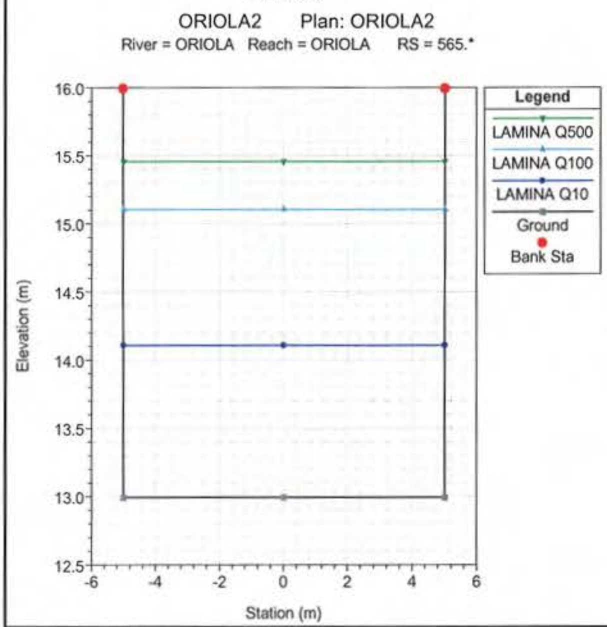

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 590.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

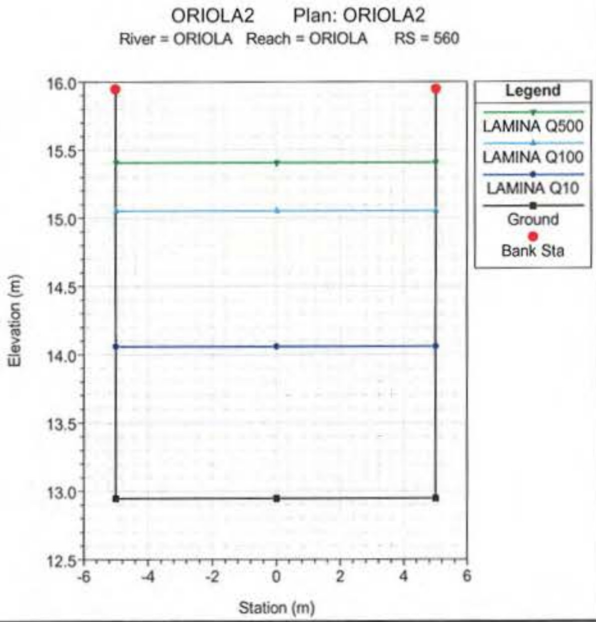

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 585.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 580
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

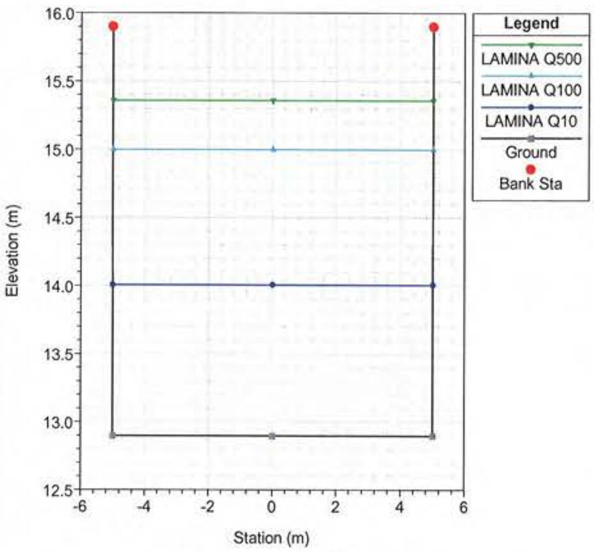

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 575.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 570.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

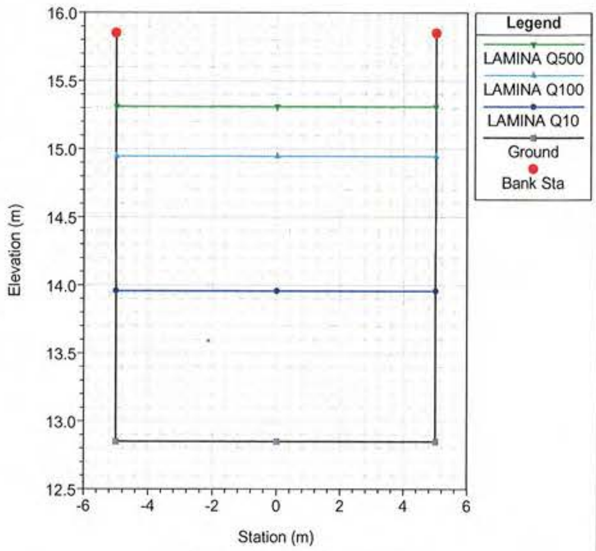

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 565.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 560
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

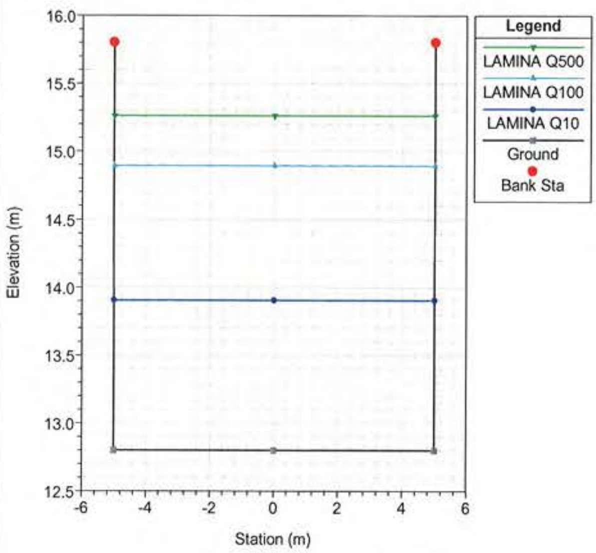
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 555.*



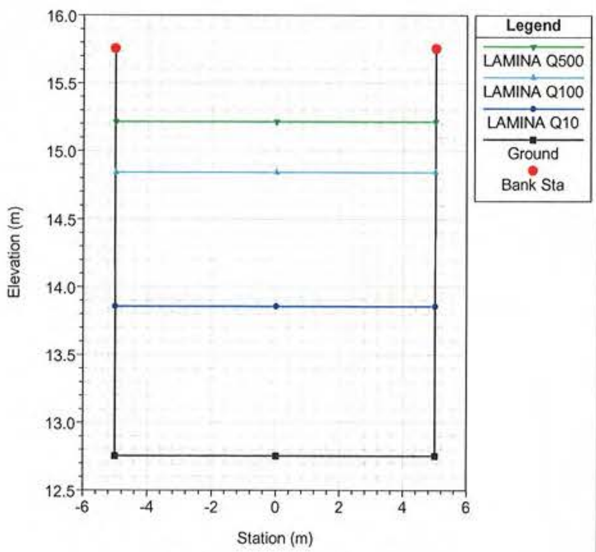
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 550.*



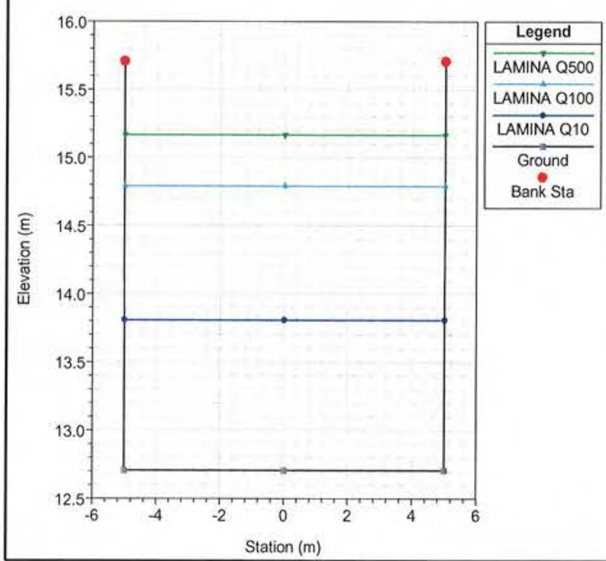
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 545.*



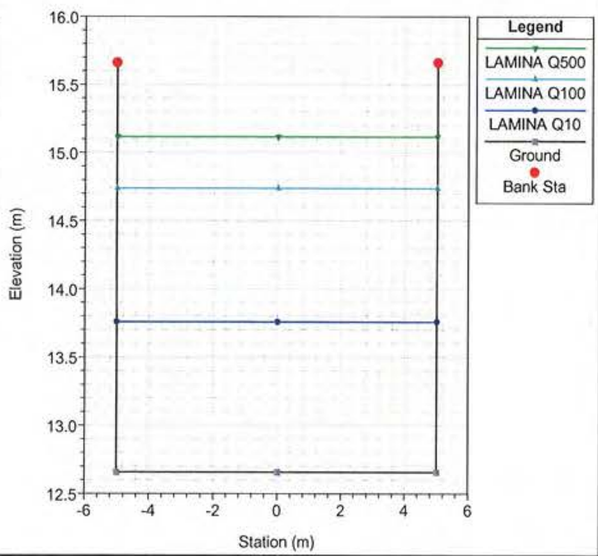
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 540

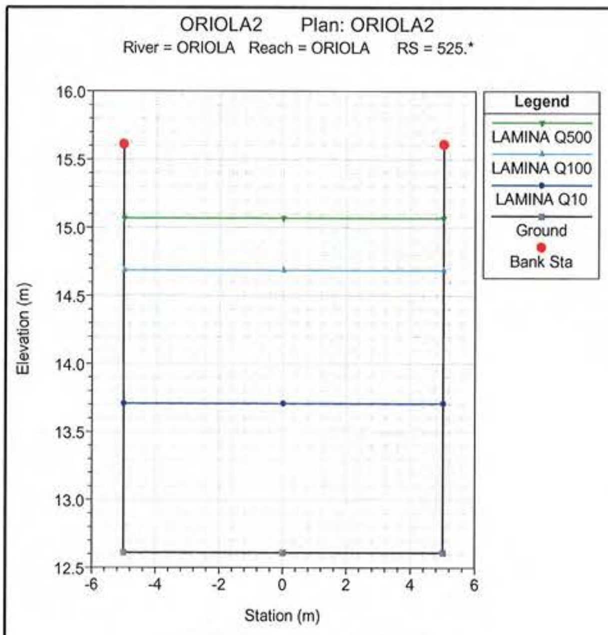


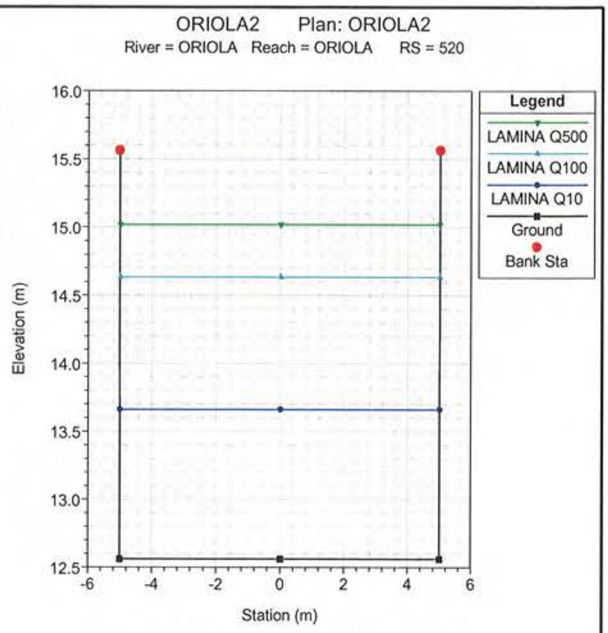
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 535.*

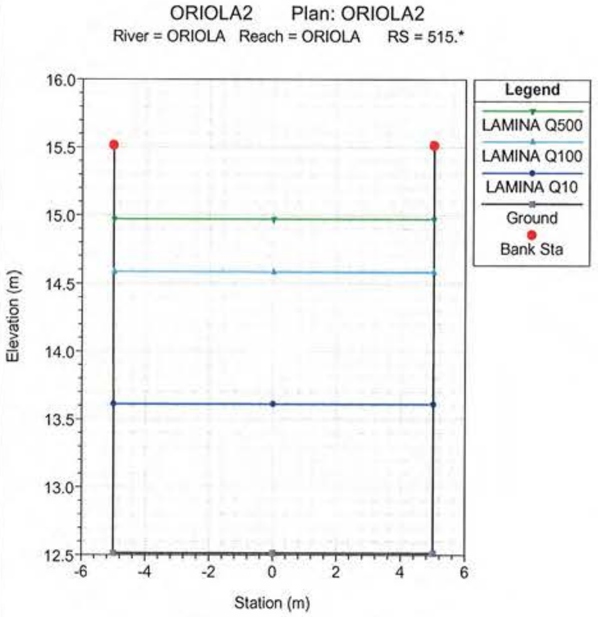


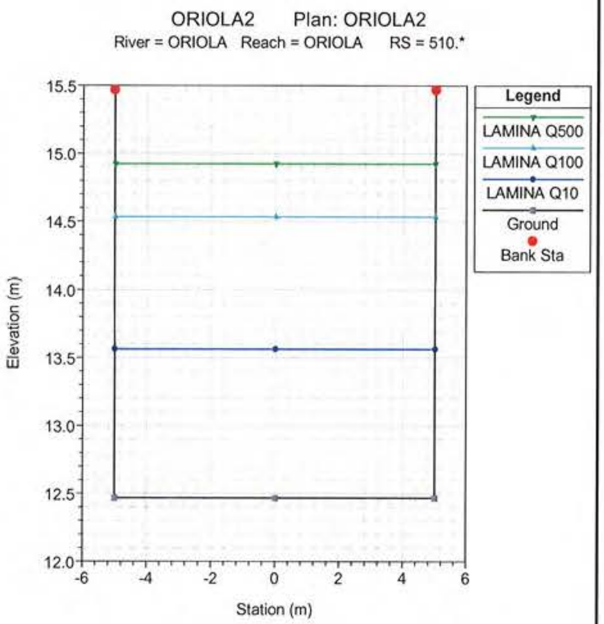
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 530.*

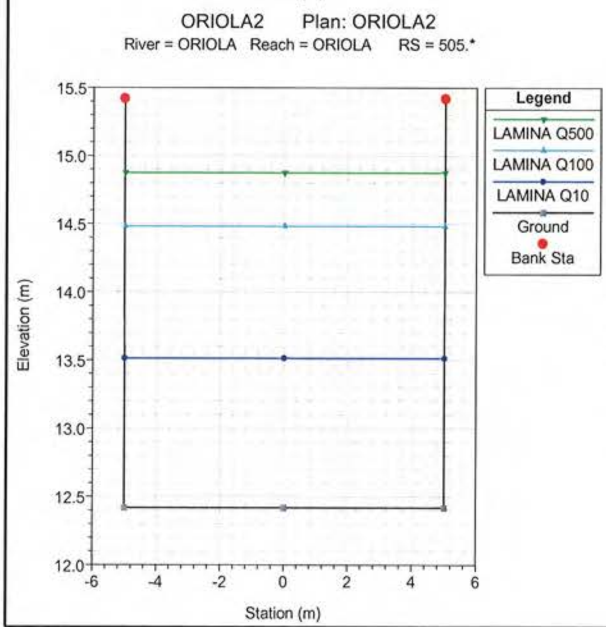


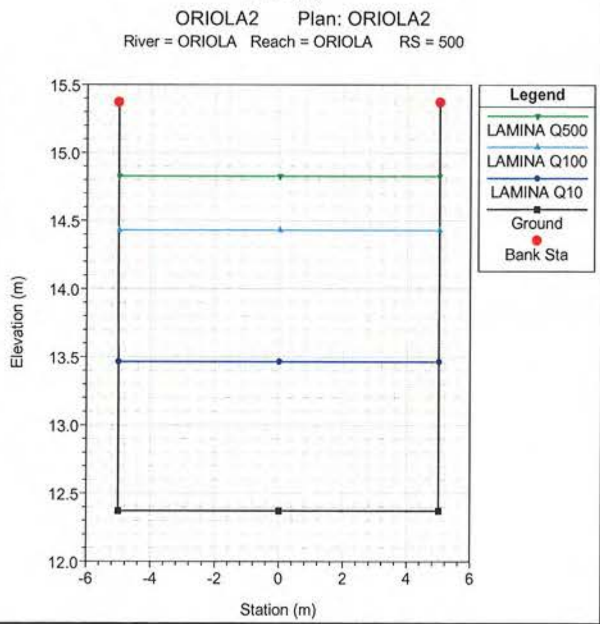

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 525.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

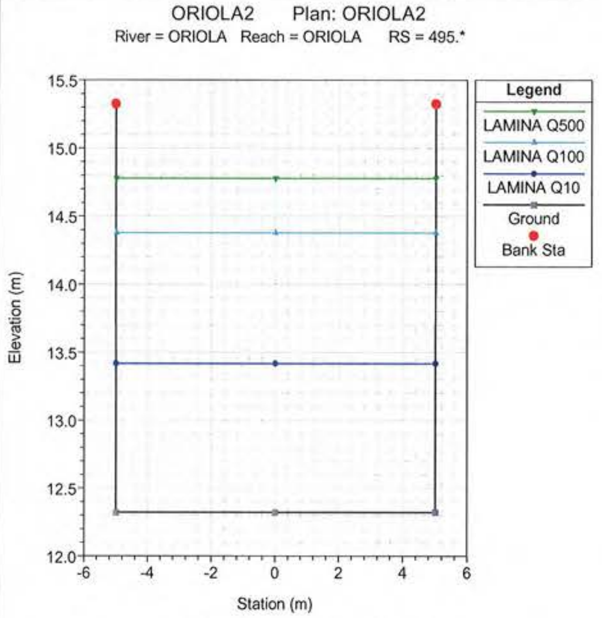

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 520
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

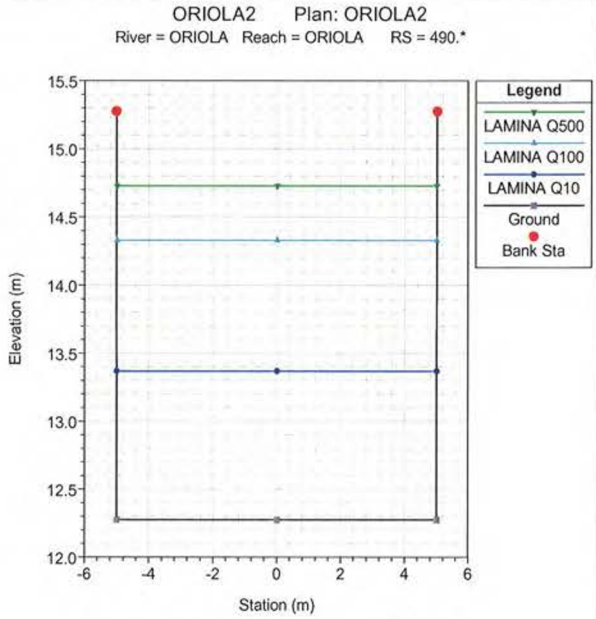

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 515.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

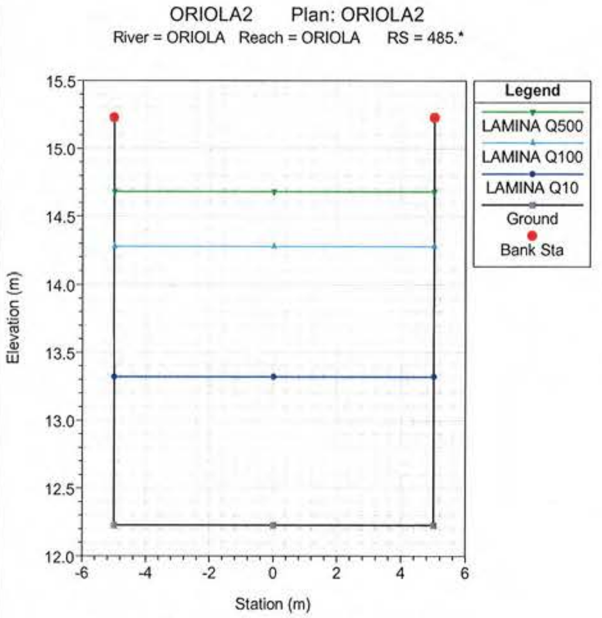

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 510.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

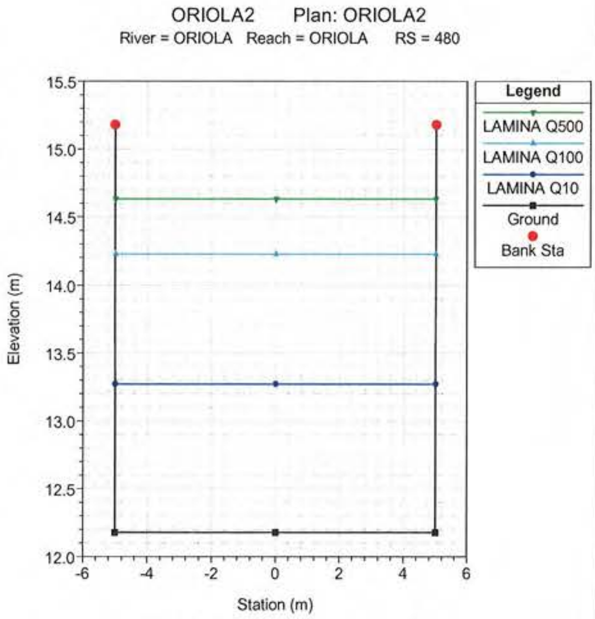

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 505.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

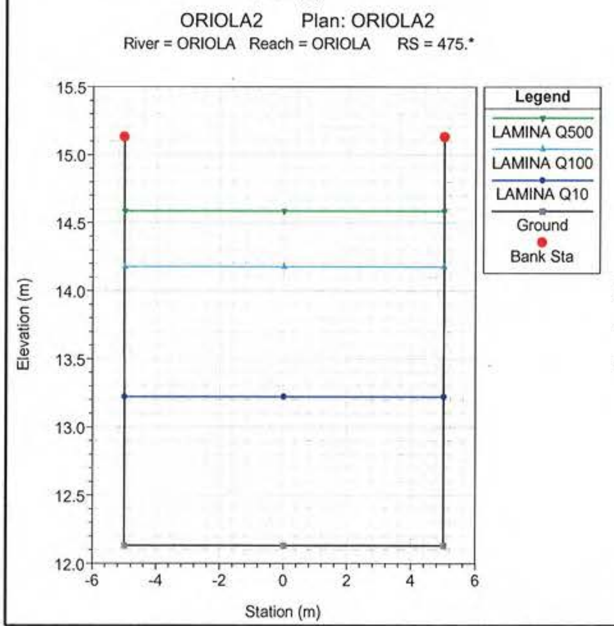

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 500
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

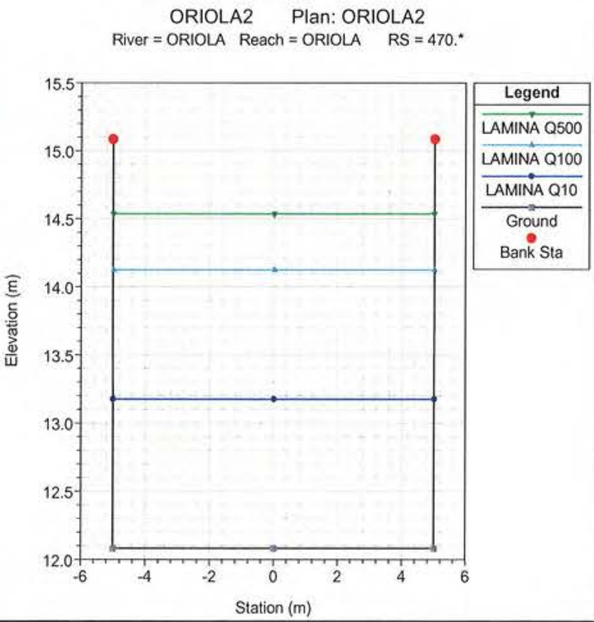

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 495.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

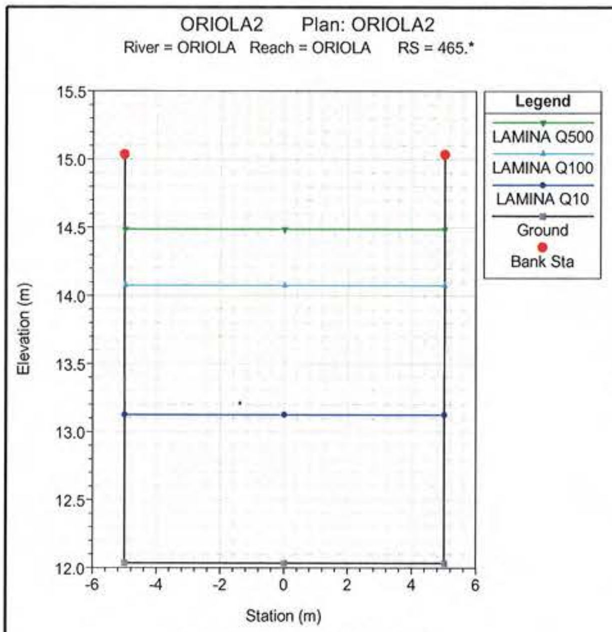

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 490.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

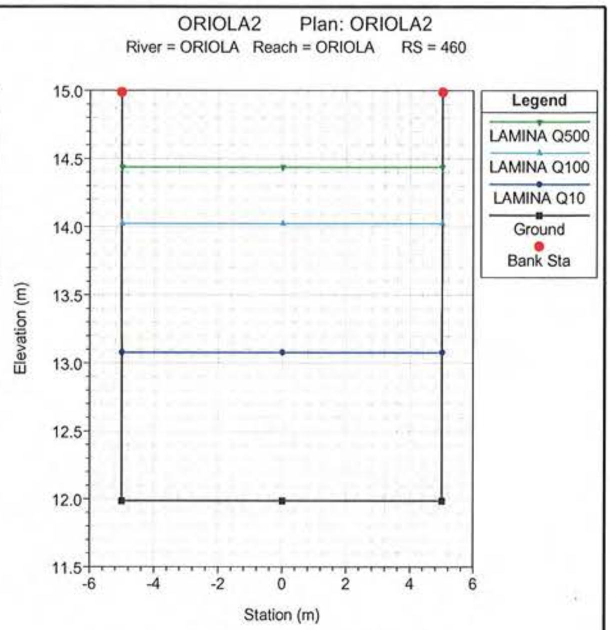

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 485.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

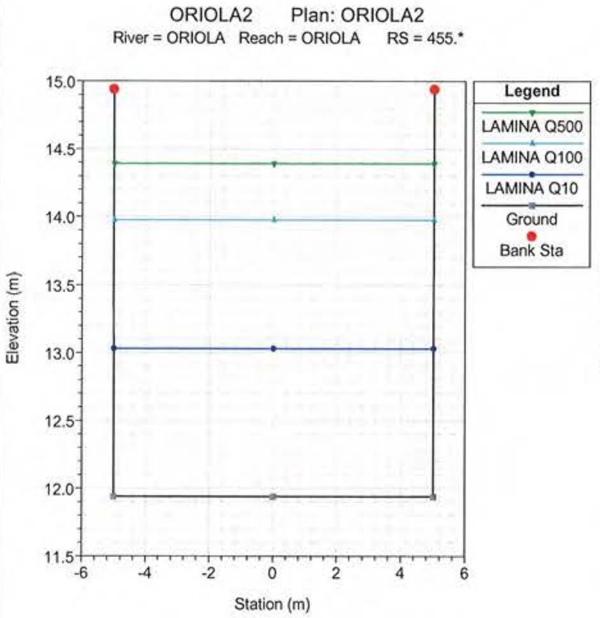

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 480
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

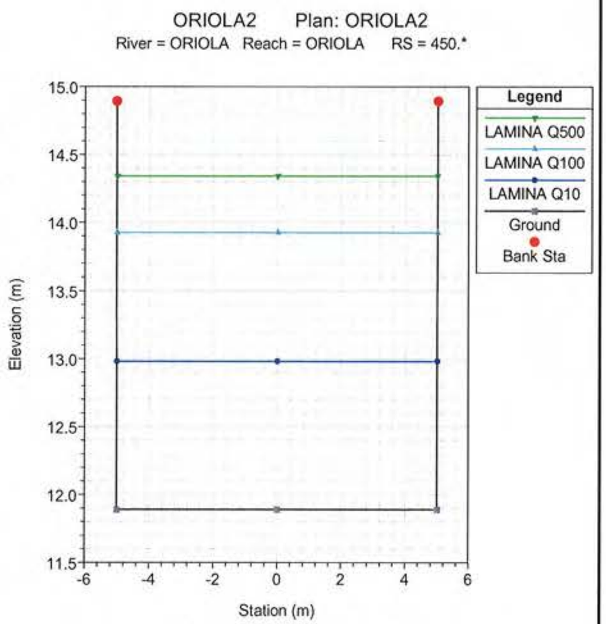

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 475.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

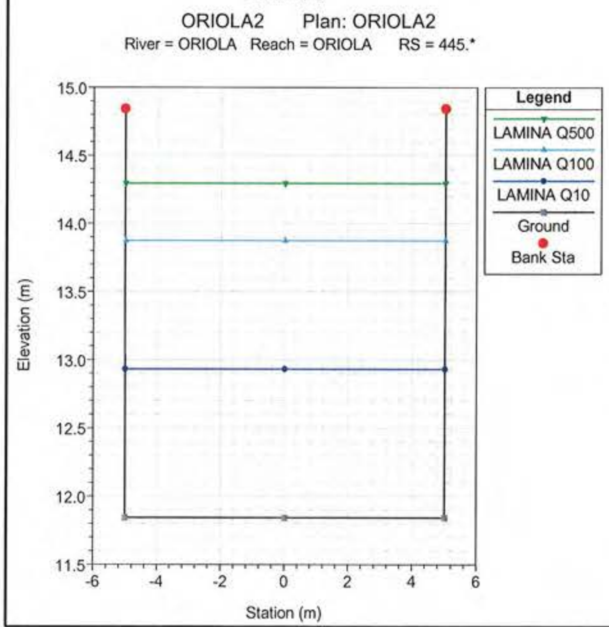

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 470.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
-6
-4
-2
0
2
4
6

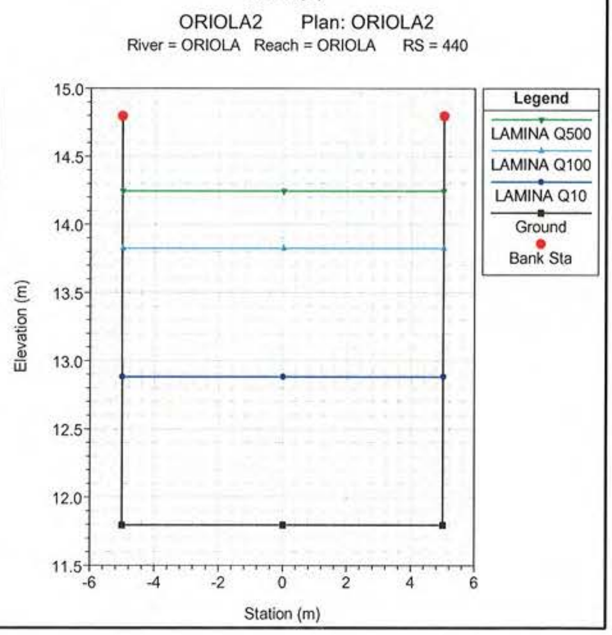

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 465.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

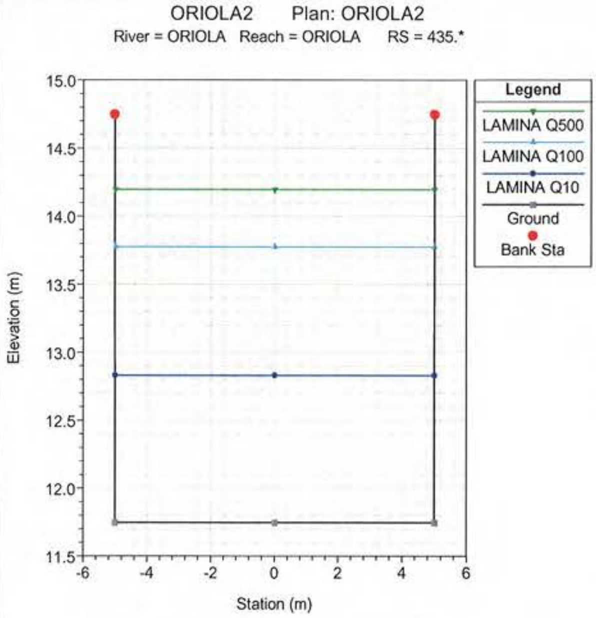

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 460
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

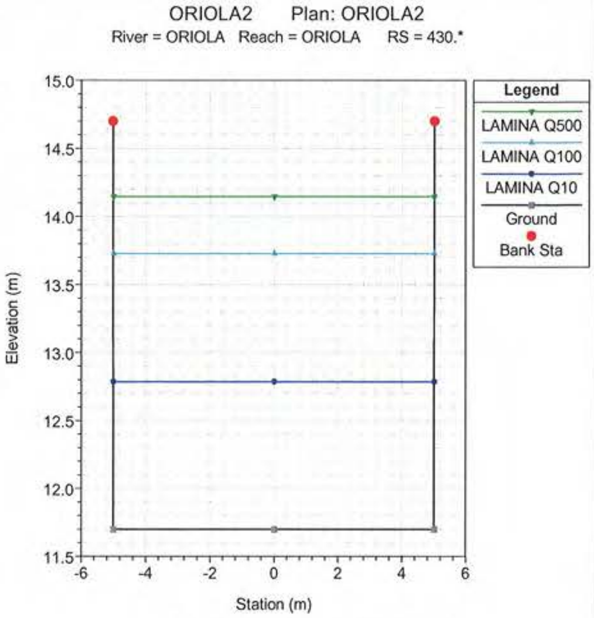

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 455.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

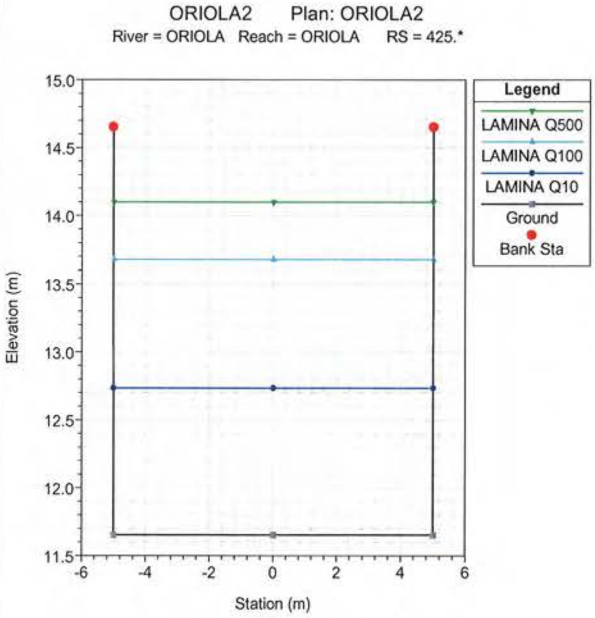

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 450.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

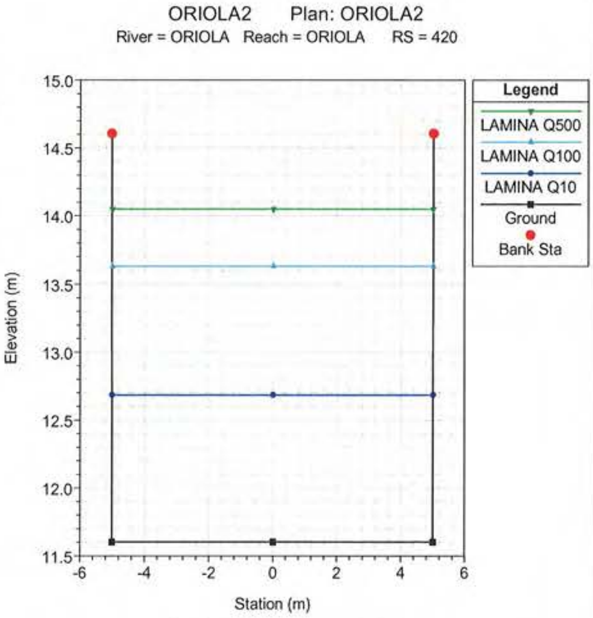

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 445.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

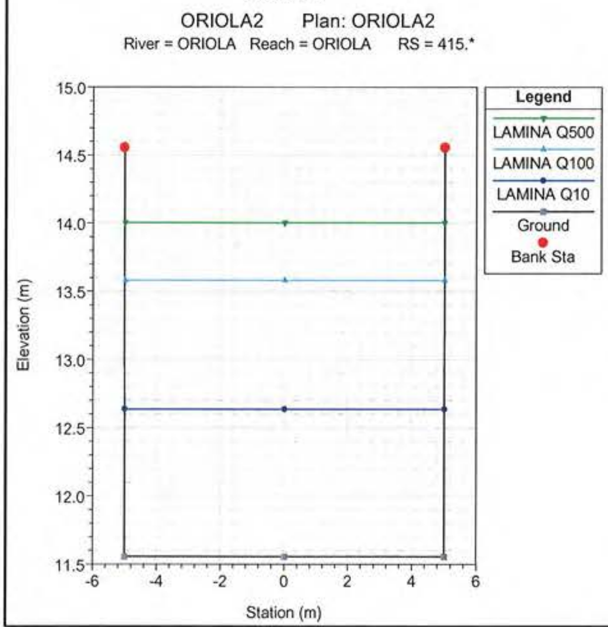

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 440
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

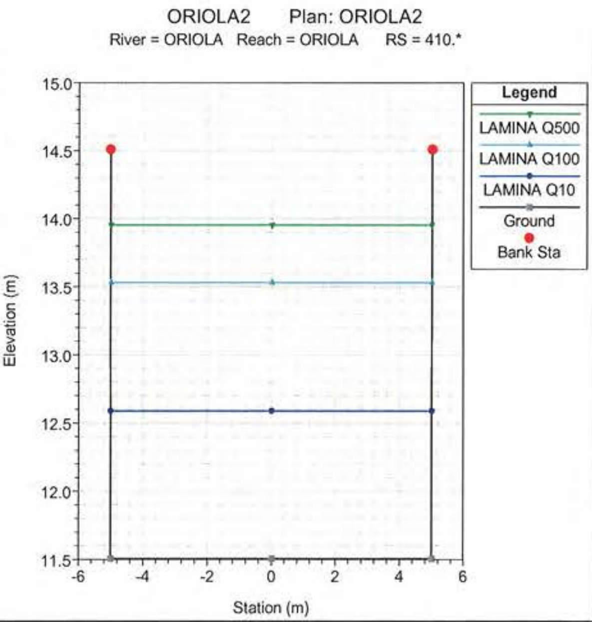

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 435.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

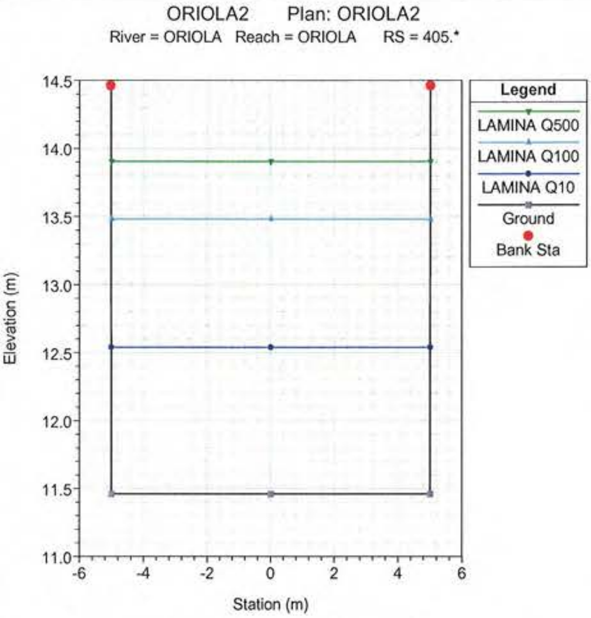

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 430.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

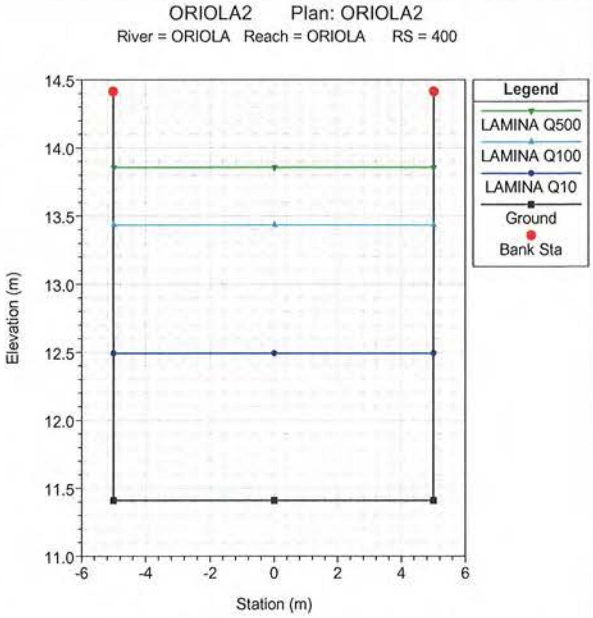

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 425.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

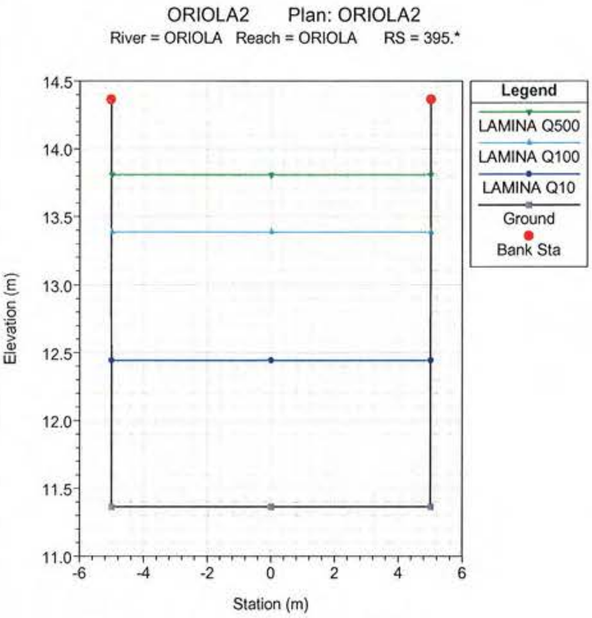

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 420
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

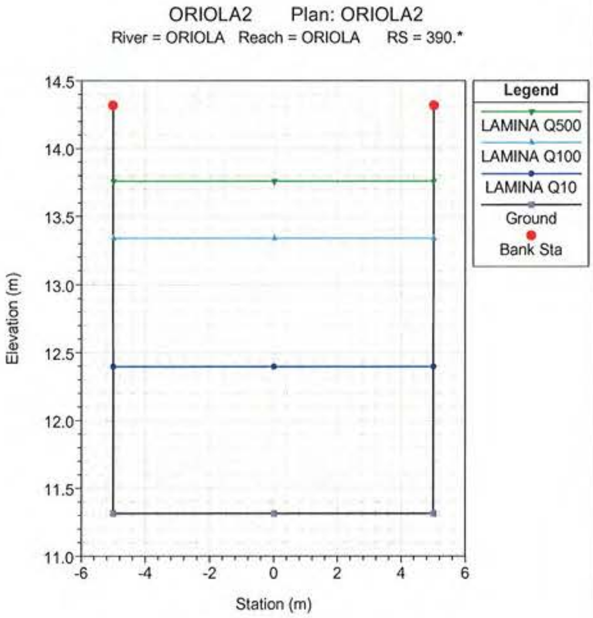

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 415.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

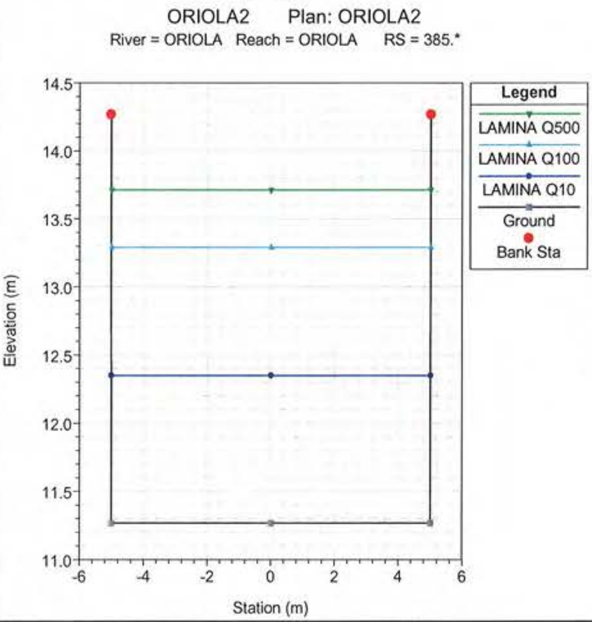

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 410.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

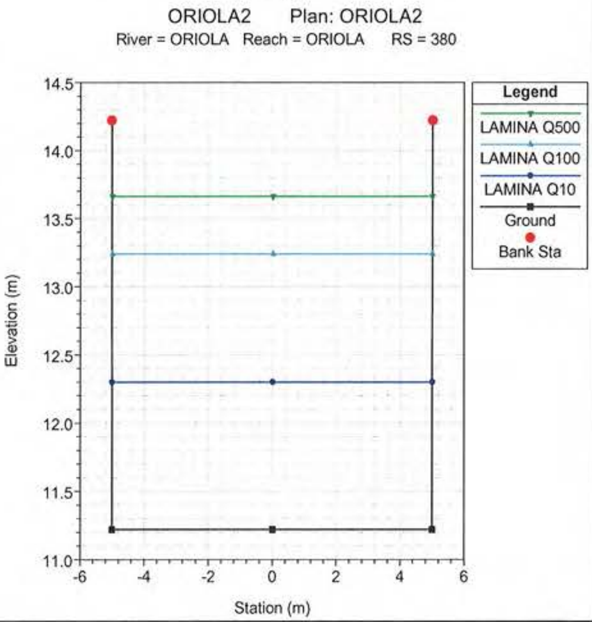

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 405.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 400
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

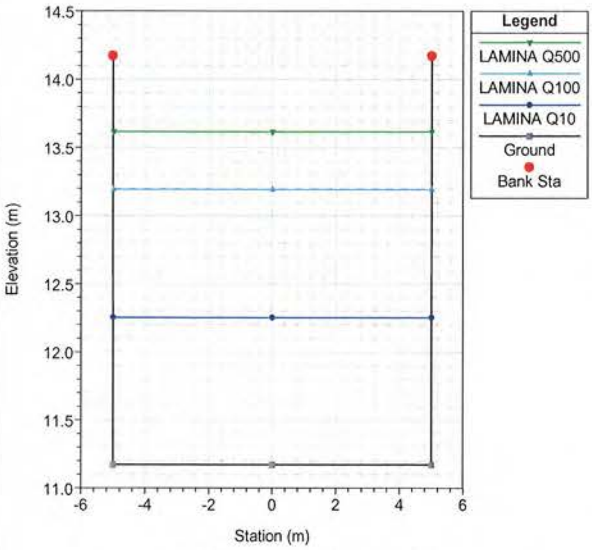

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 395.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 390.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

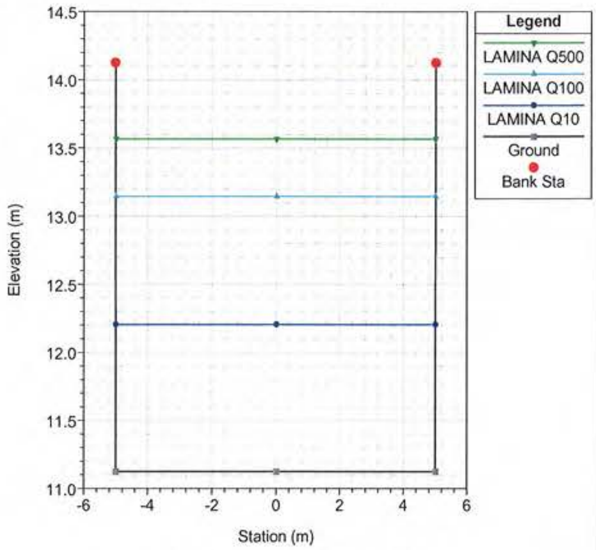

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 385.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 380
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

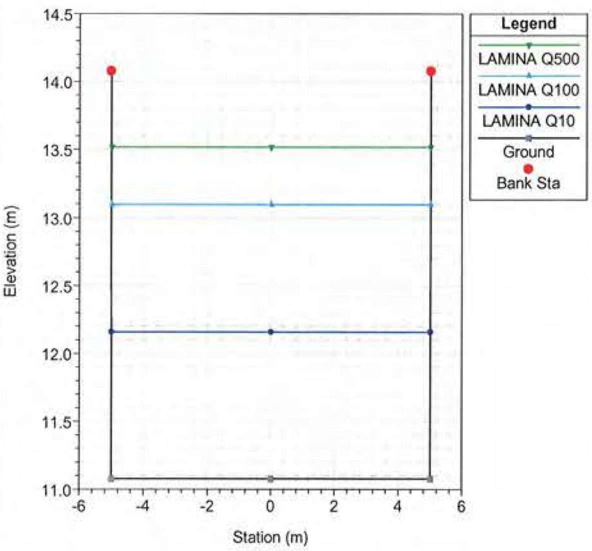
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 375.*



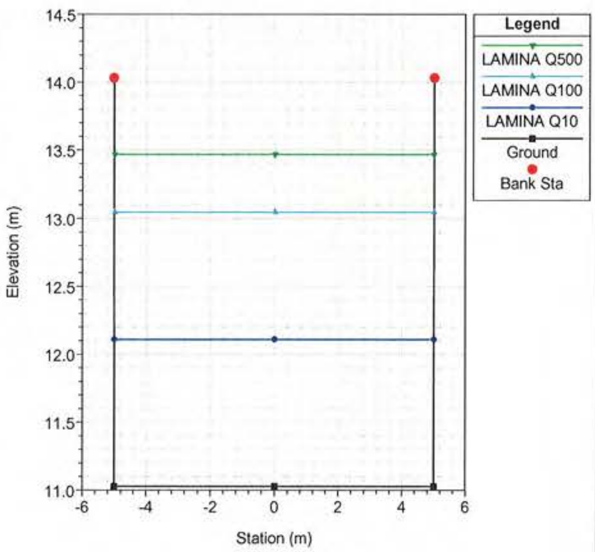
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 370.*



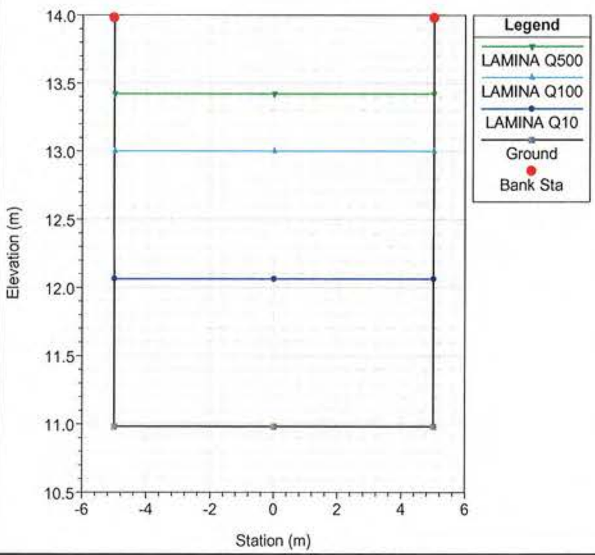
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 365.*



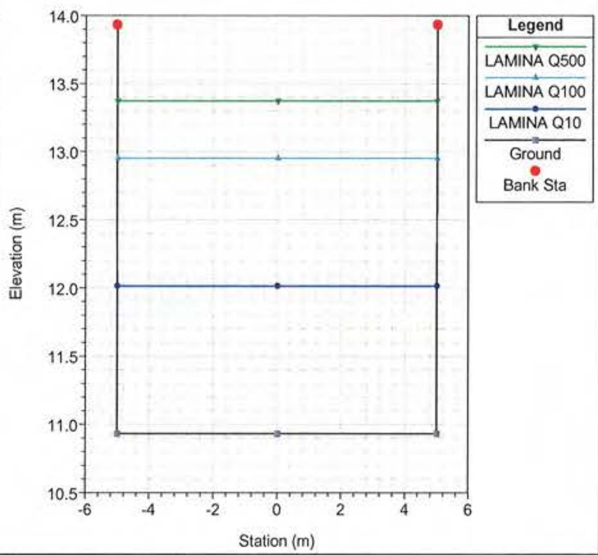
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 360 360

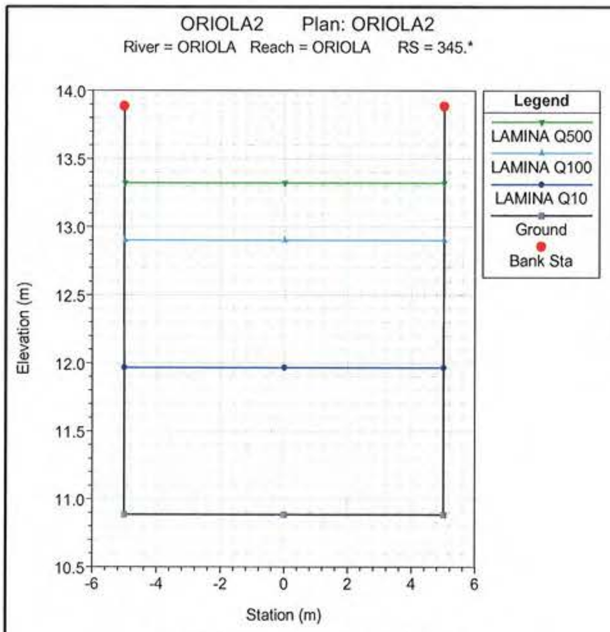


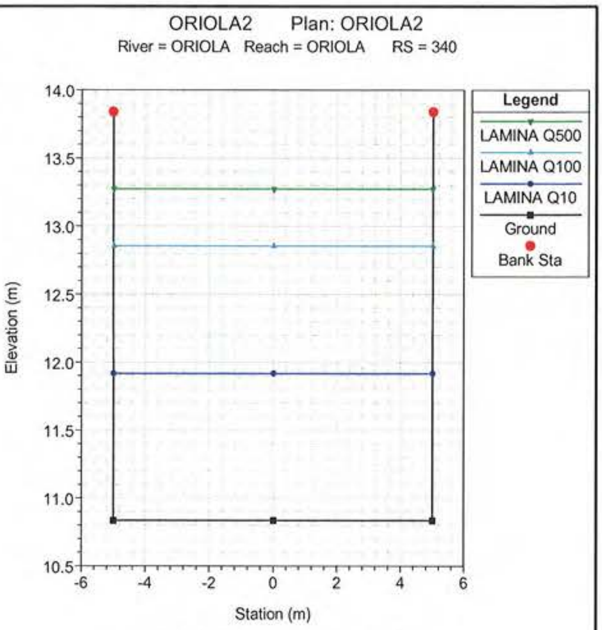
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 355.*

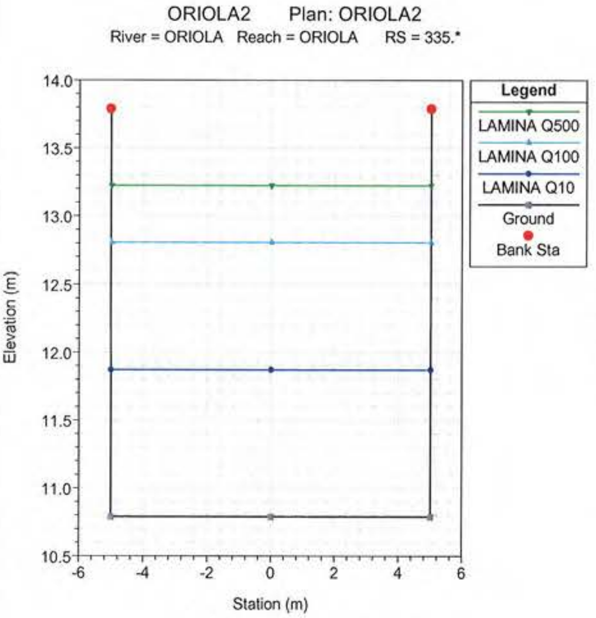


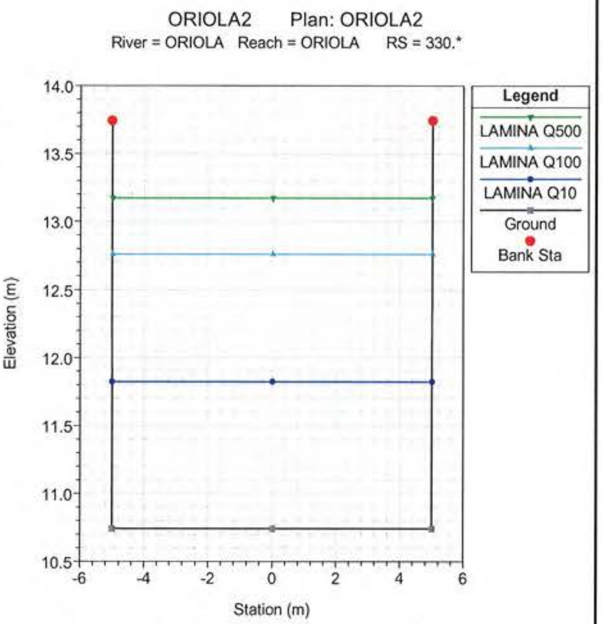
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 350.*

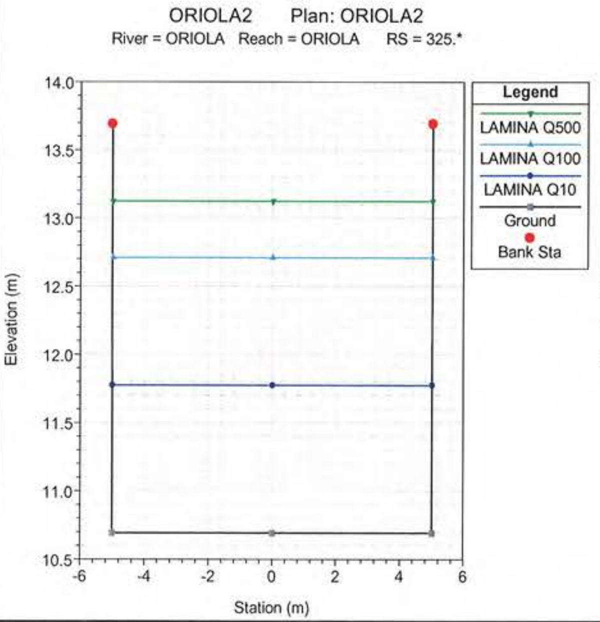


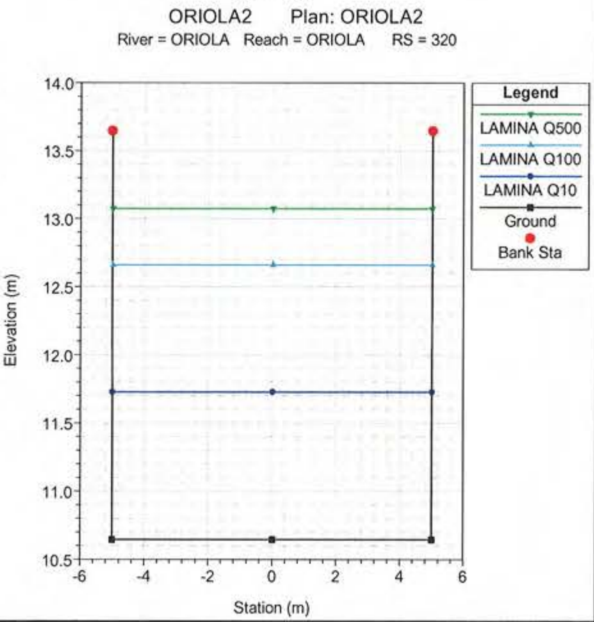

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 345.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

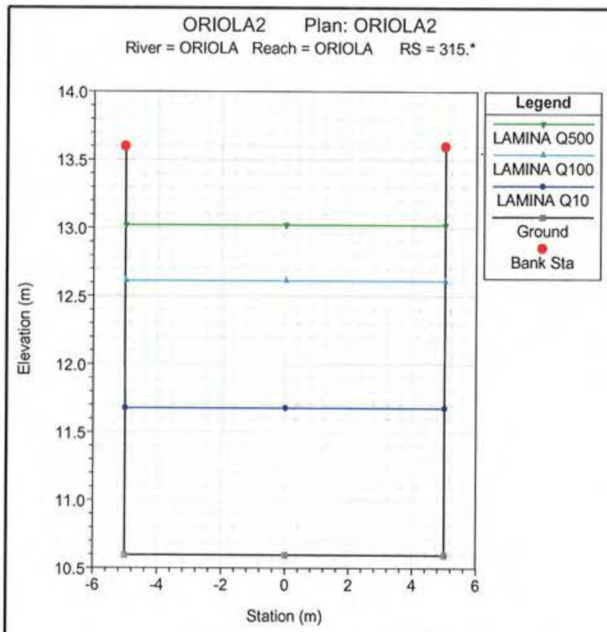

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 340
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

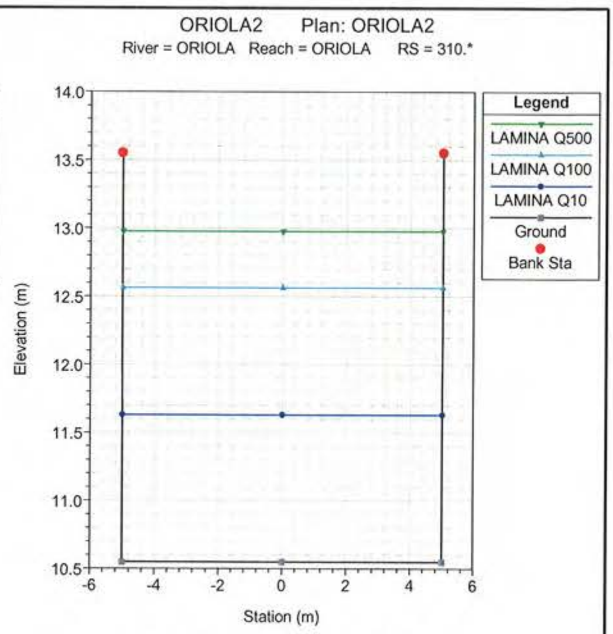

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 335.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

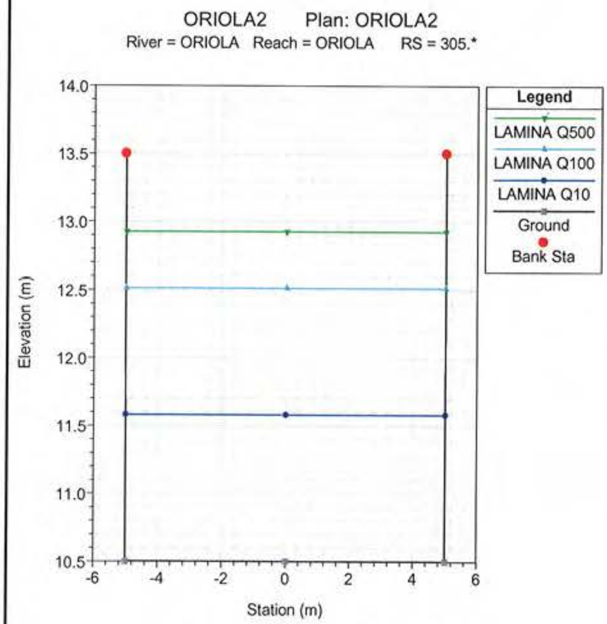

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 330.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

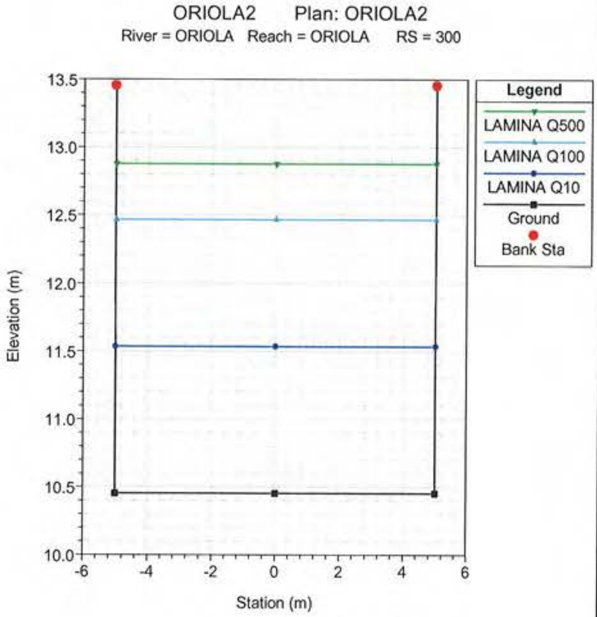

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 325.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

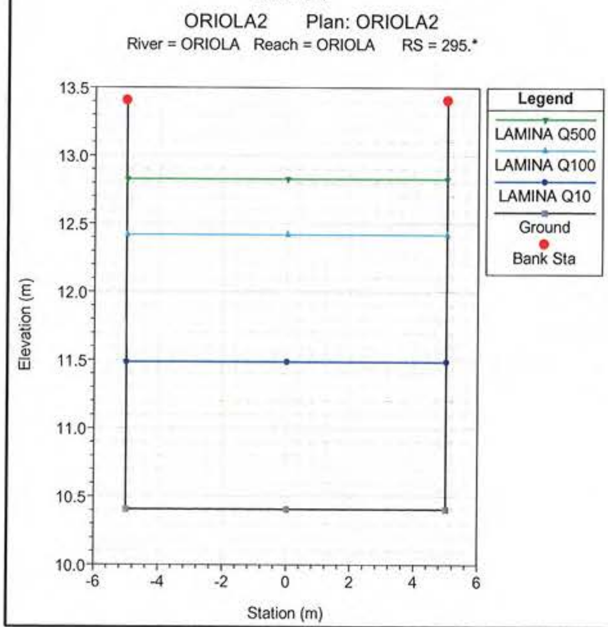

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 320
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

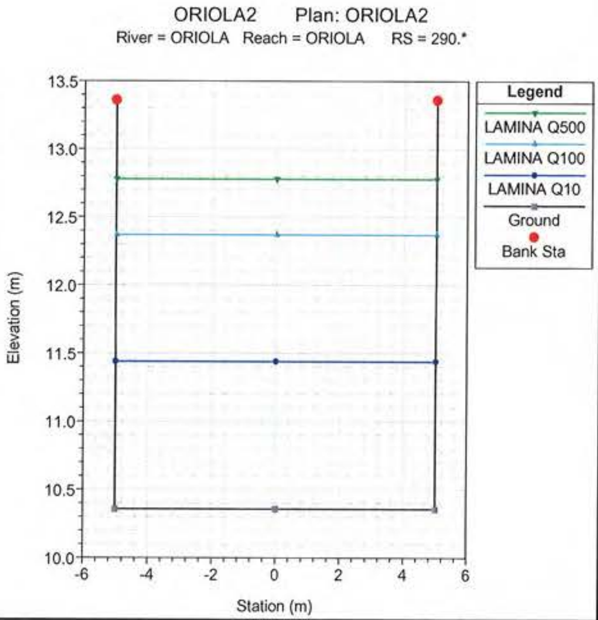

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 315.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 310.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

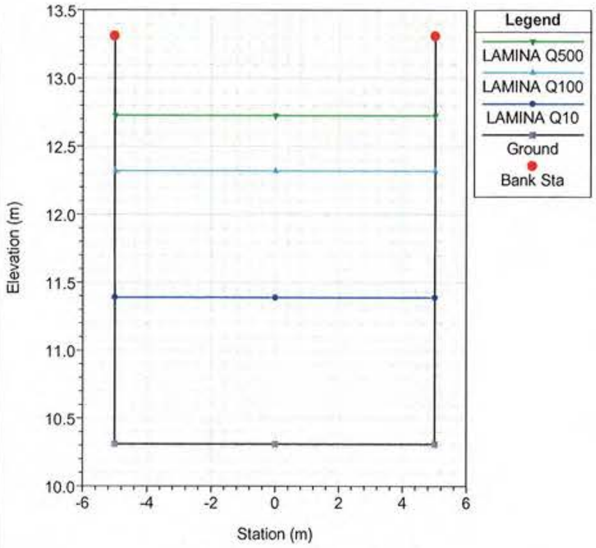

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 305.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 300
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

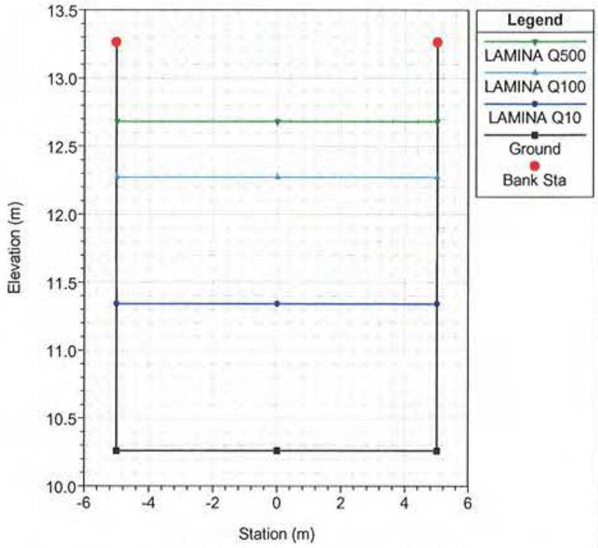

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 295.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 290.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

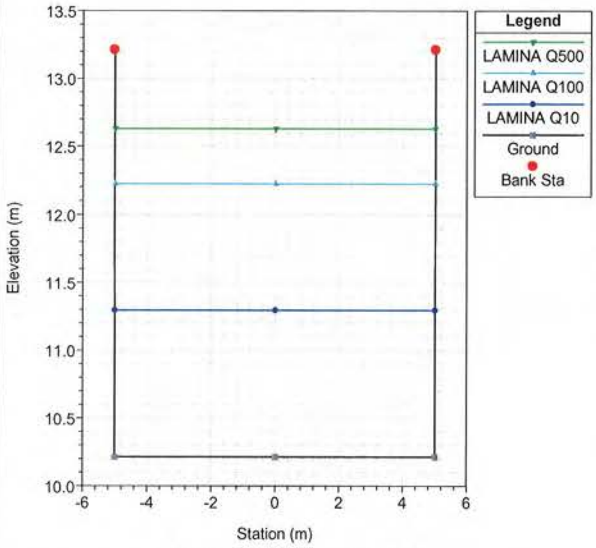
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 285.*



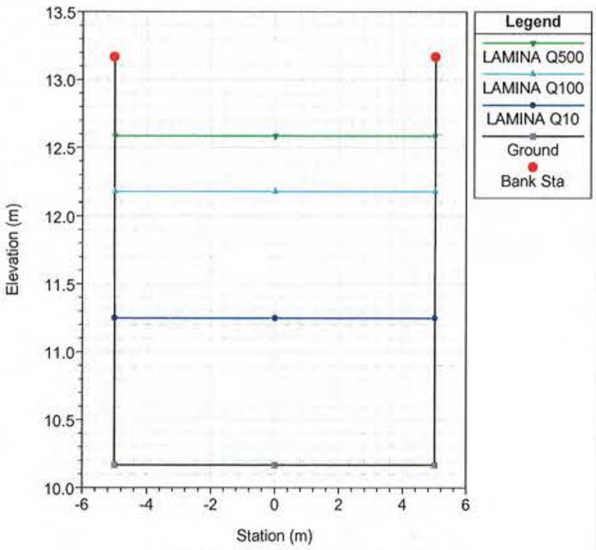
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 280



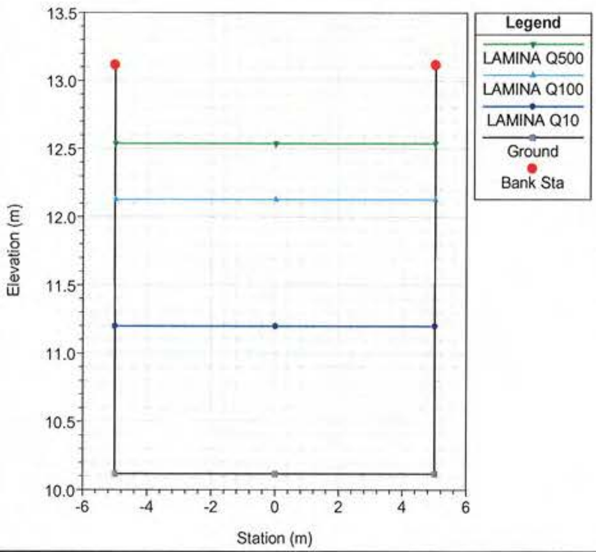
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 275.*



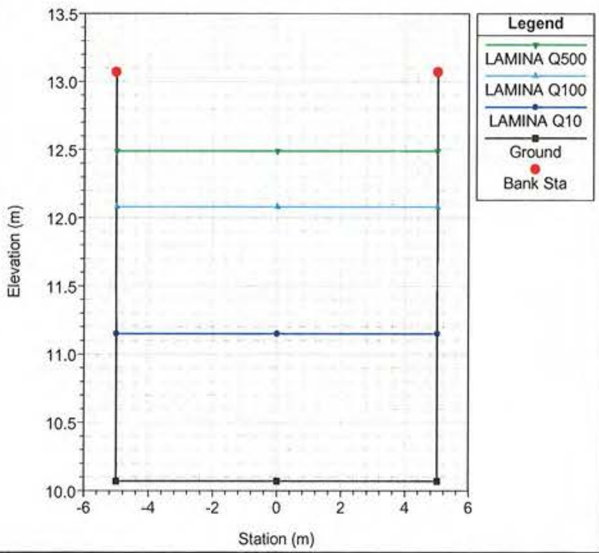
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 270.*

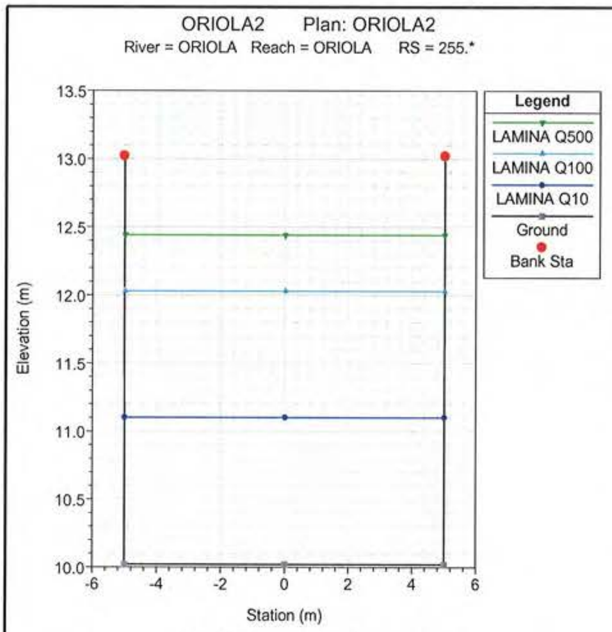


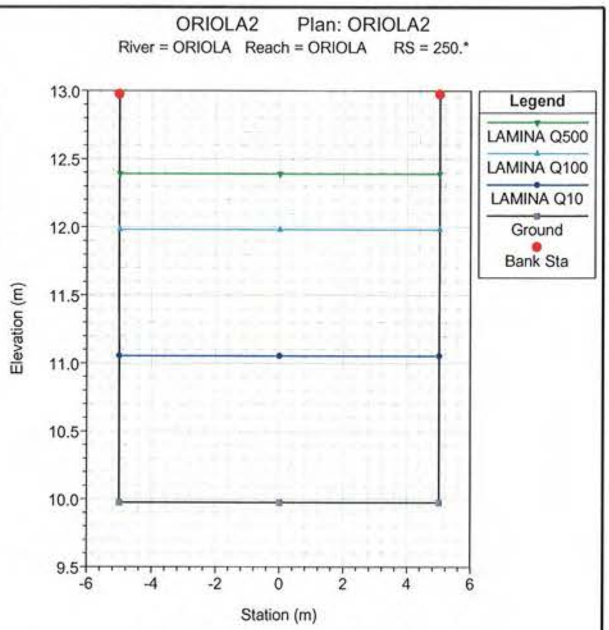
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 265.*

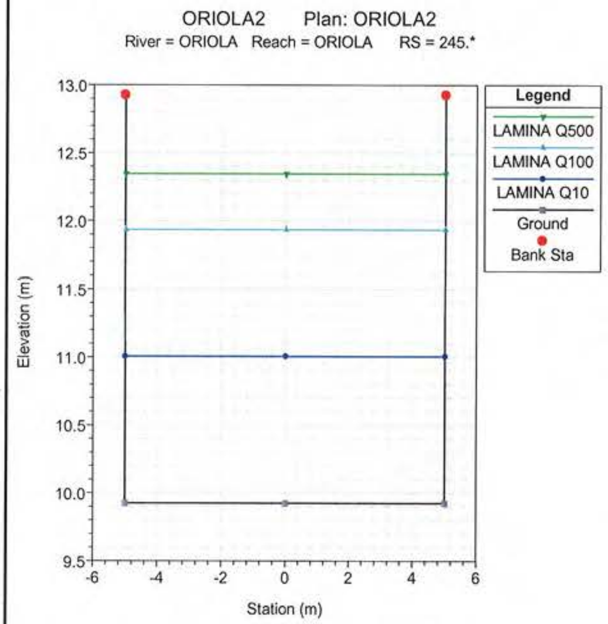


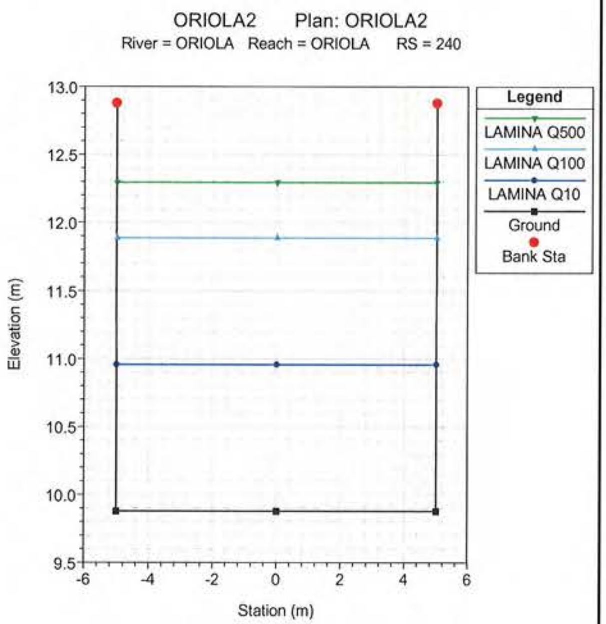
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 260

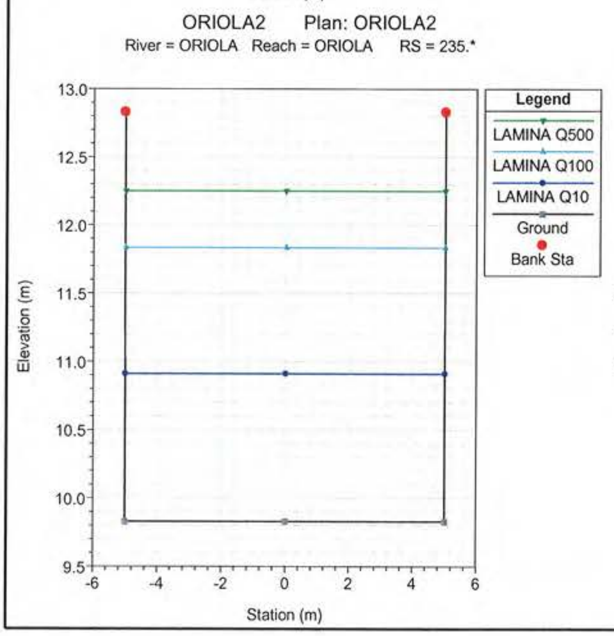


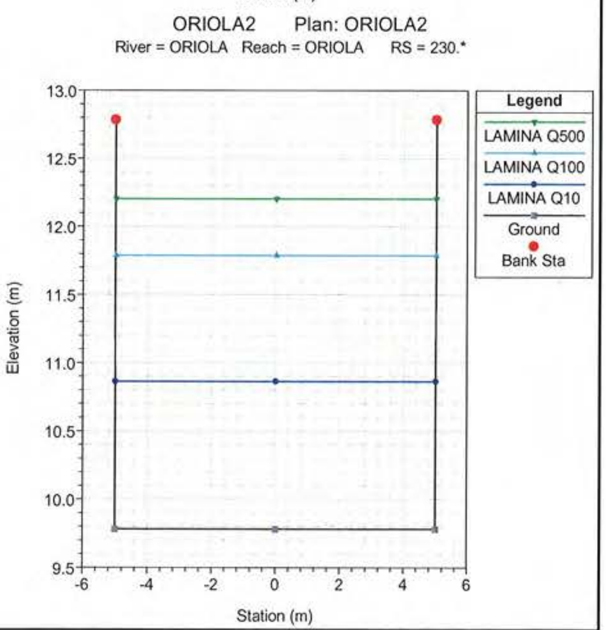

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 255.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

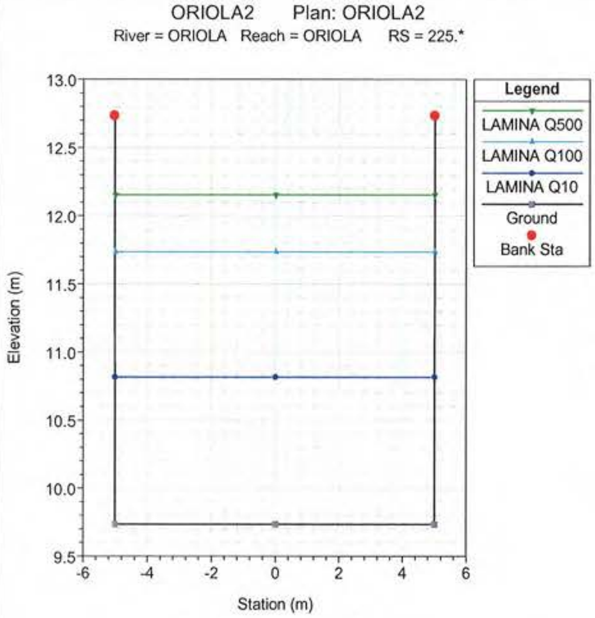

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 250.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

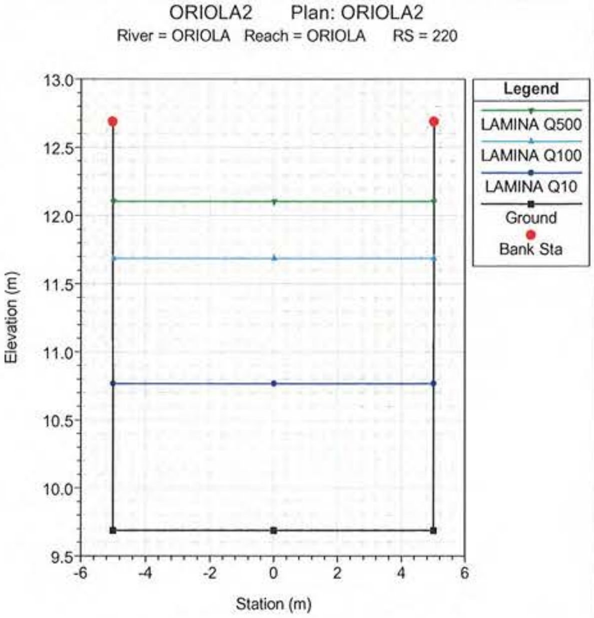

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 245.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

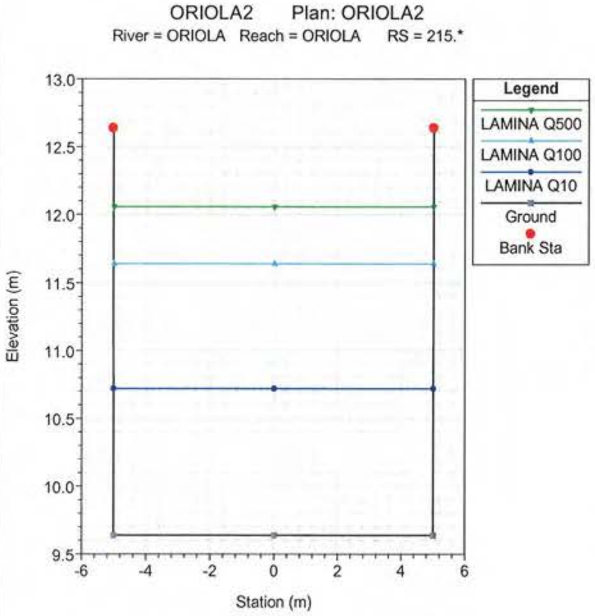

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 240
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

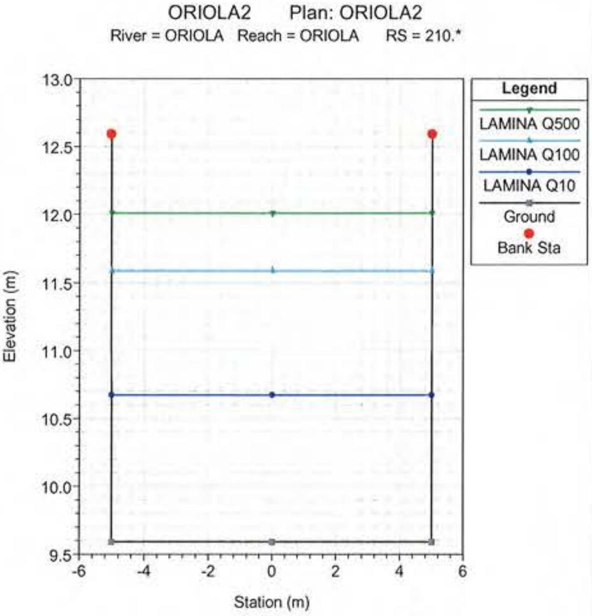

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 235.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

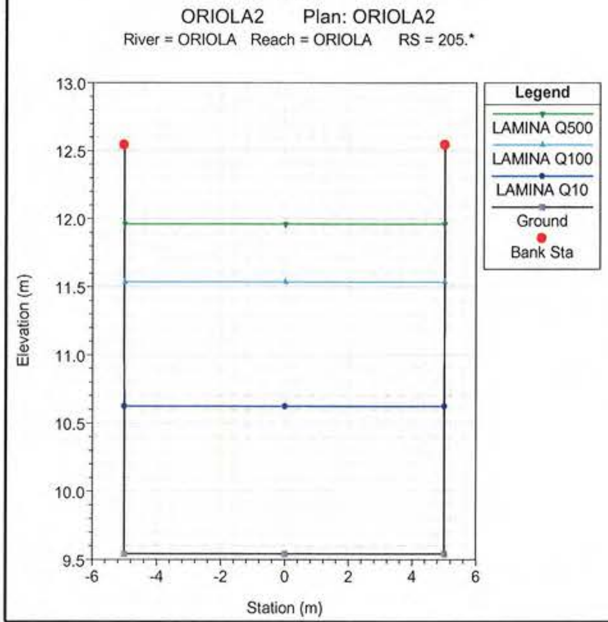

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 230.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

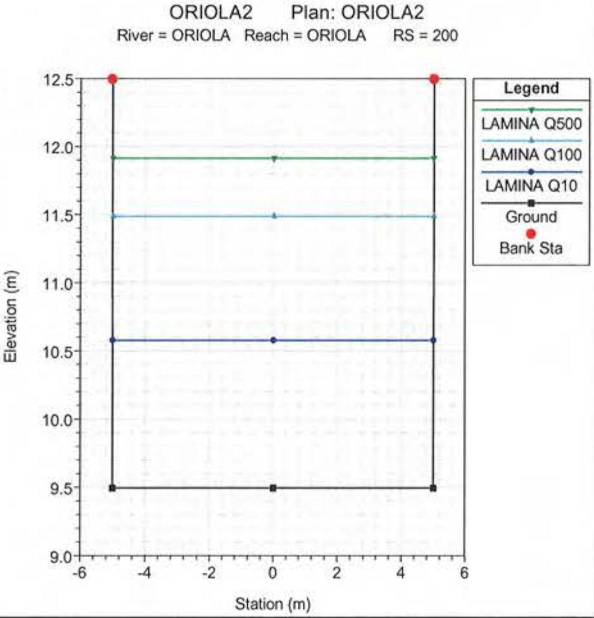

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 225.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 220
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

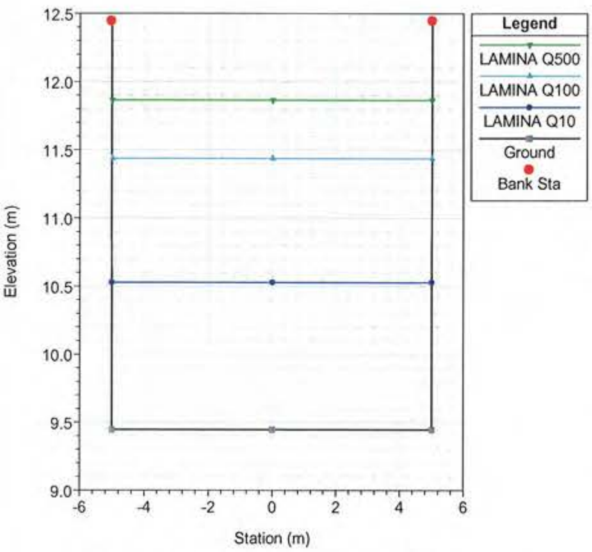

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 215.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 210.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

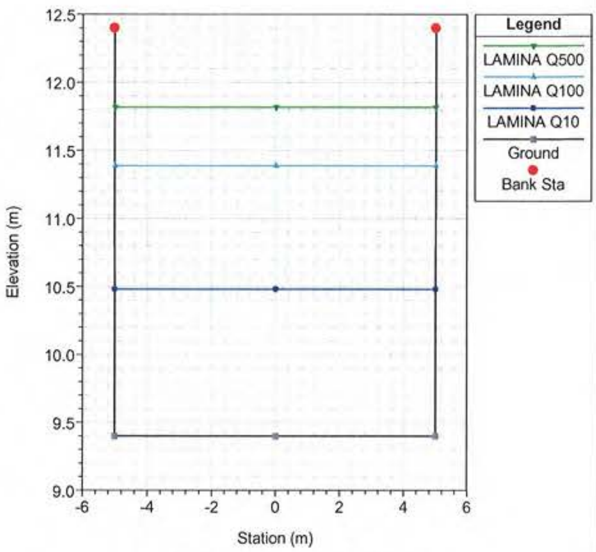

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 205.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 200
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

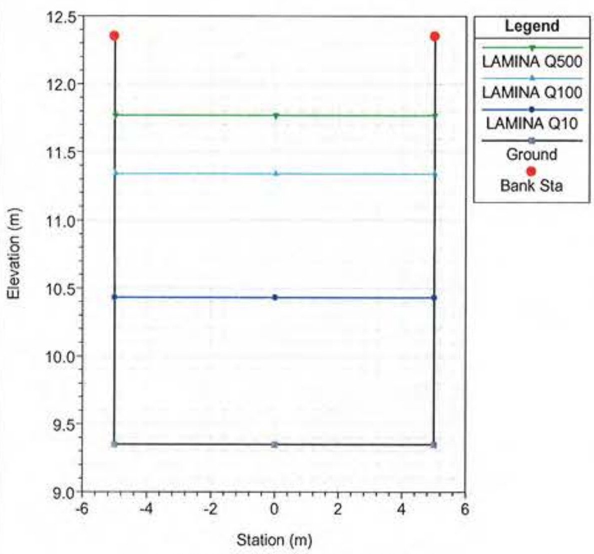
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 195.*



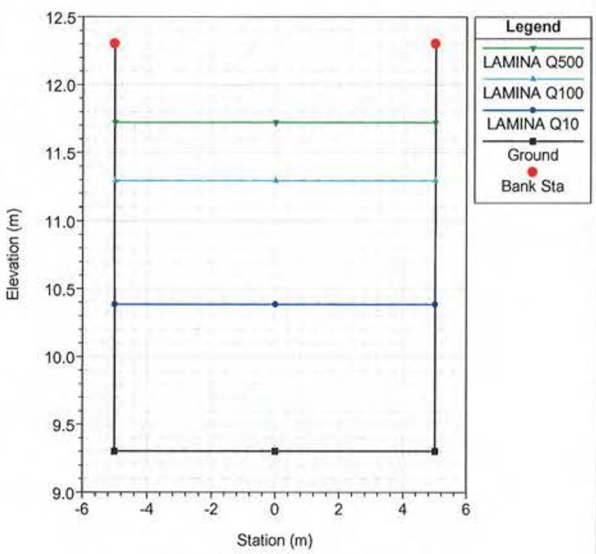
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 190.*



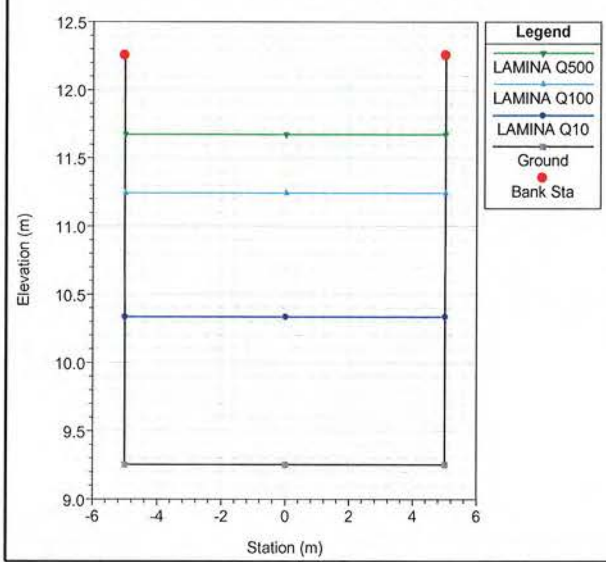
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 185.*



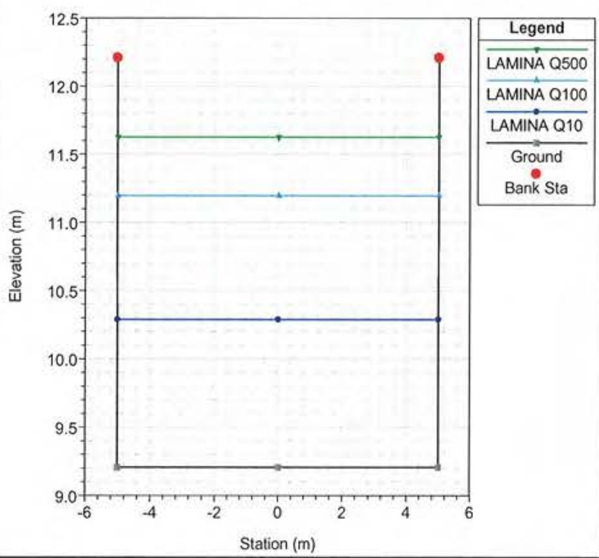
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 180

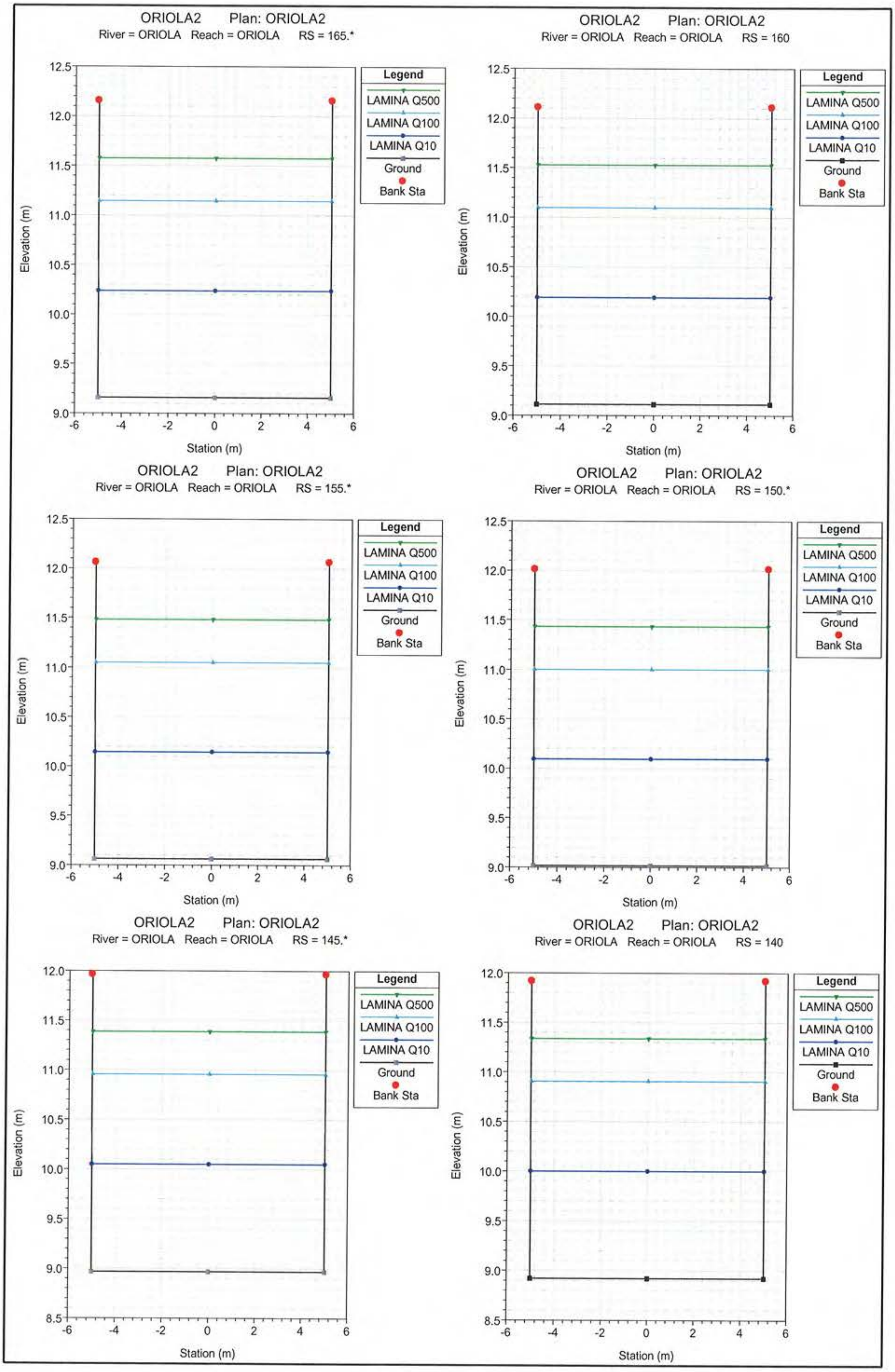


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 175.*

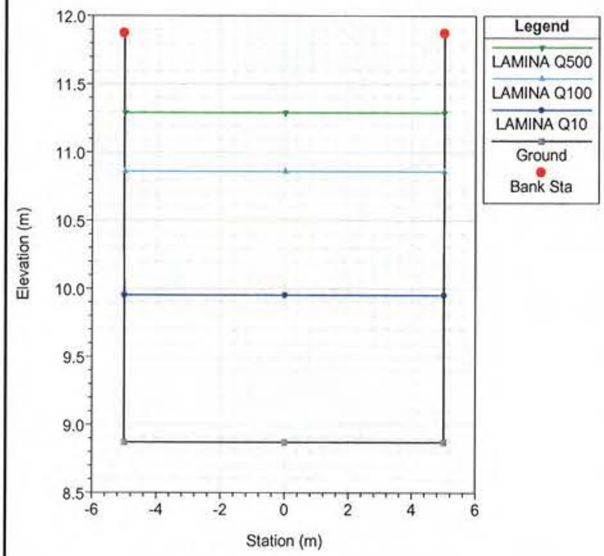


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 170.*

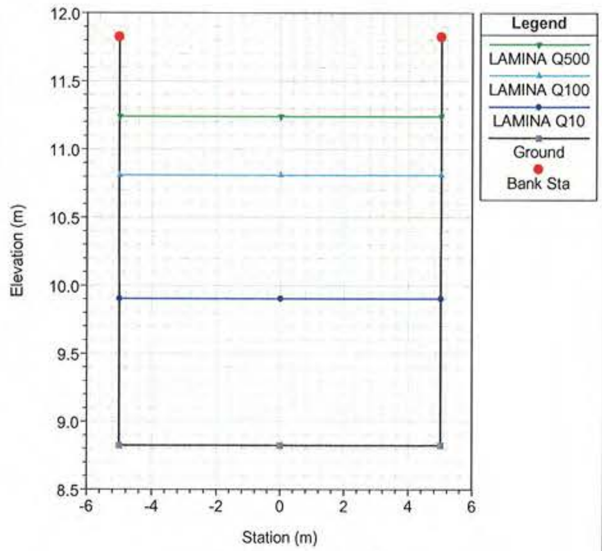



ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 165.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 160
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 155.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 150.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 145.*
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 140
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

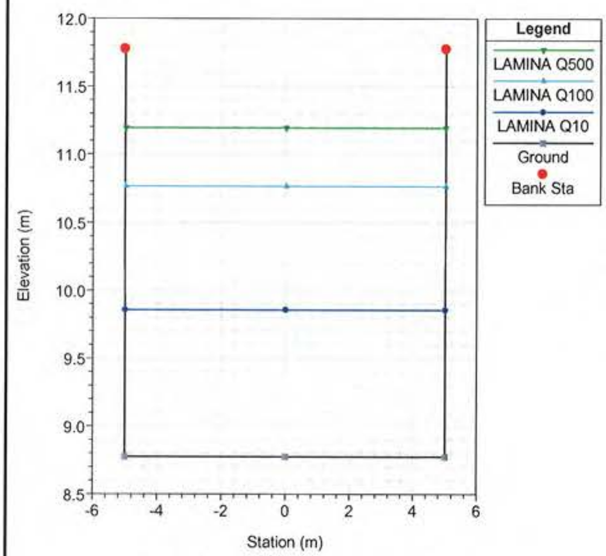
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 135.*



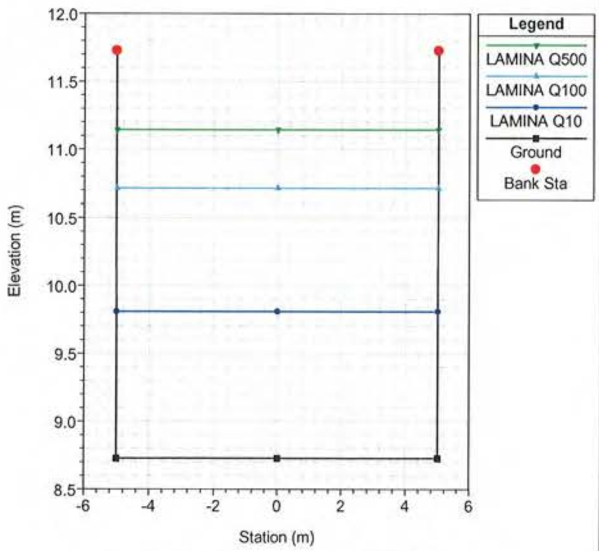
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 130.*



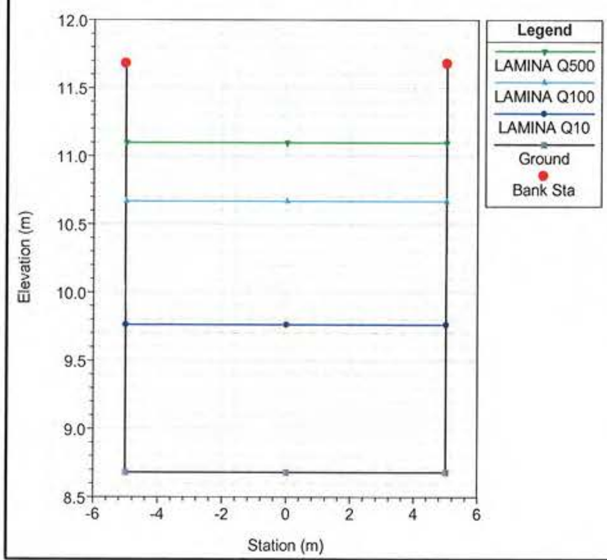
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 125.*



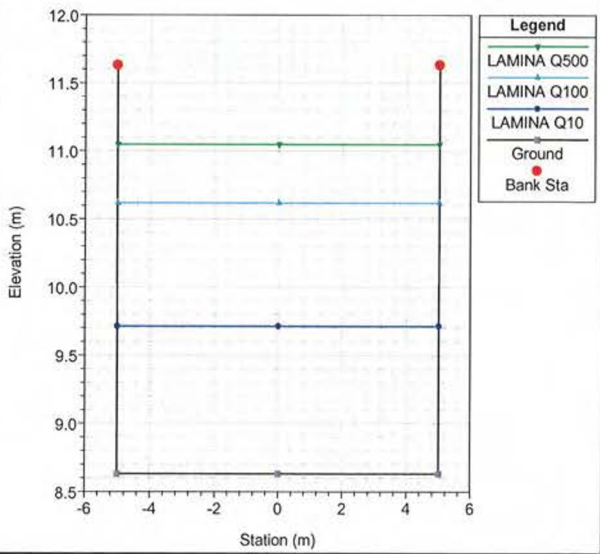
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 120

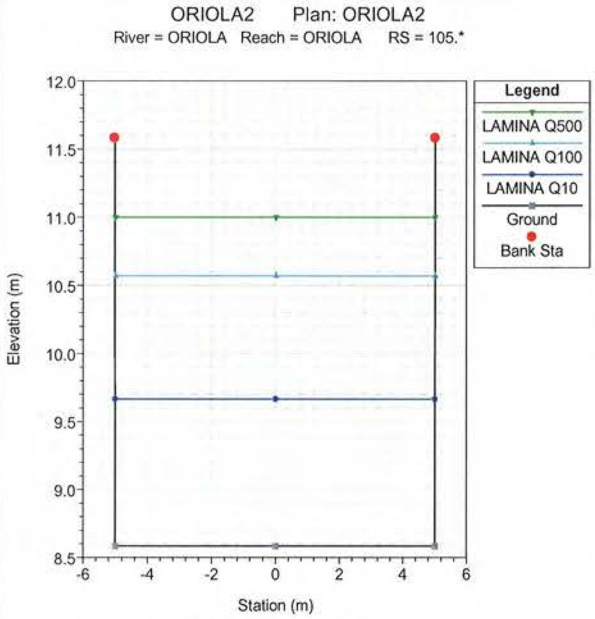


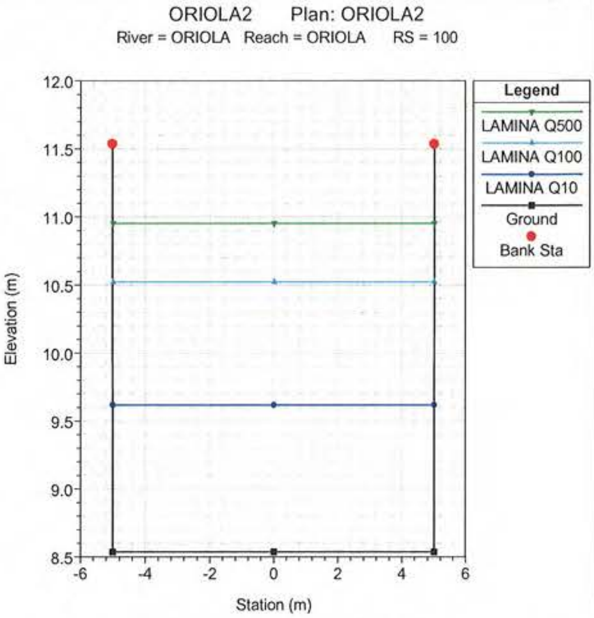
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 115.*

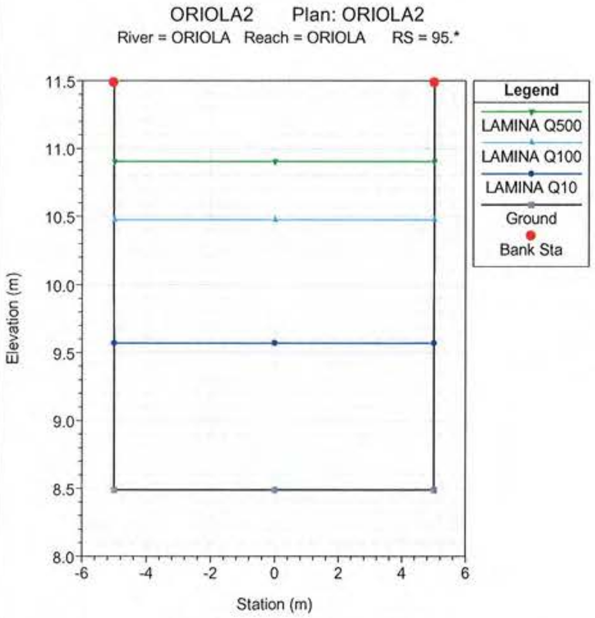


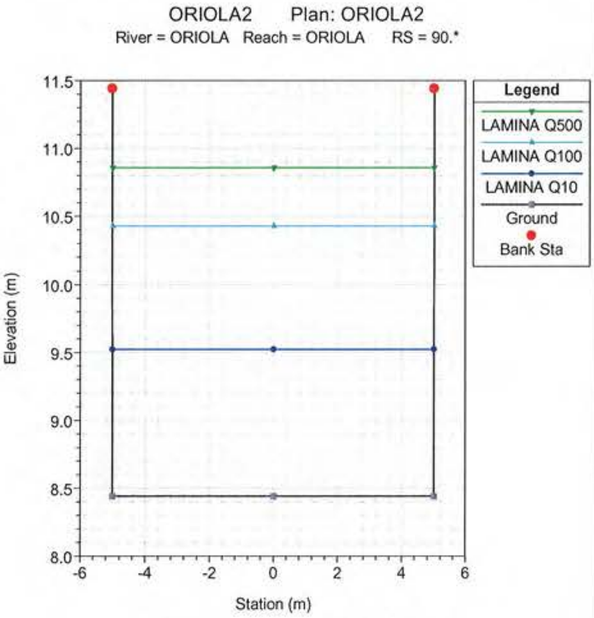
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 110.*

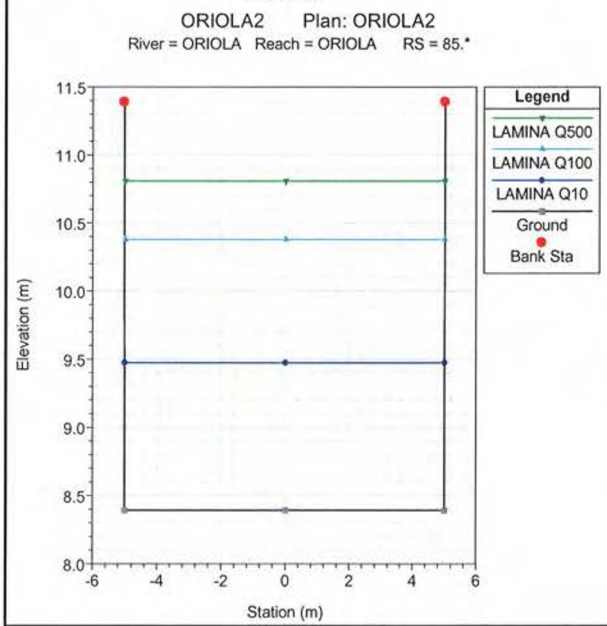


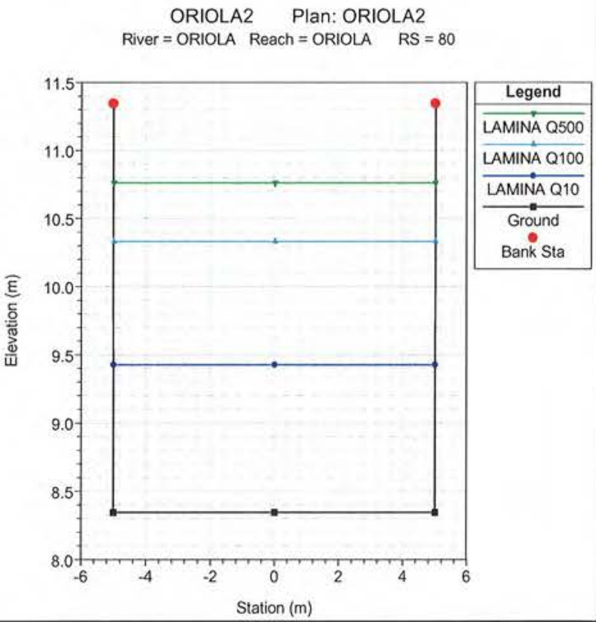

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 105.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 100
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

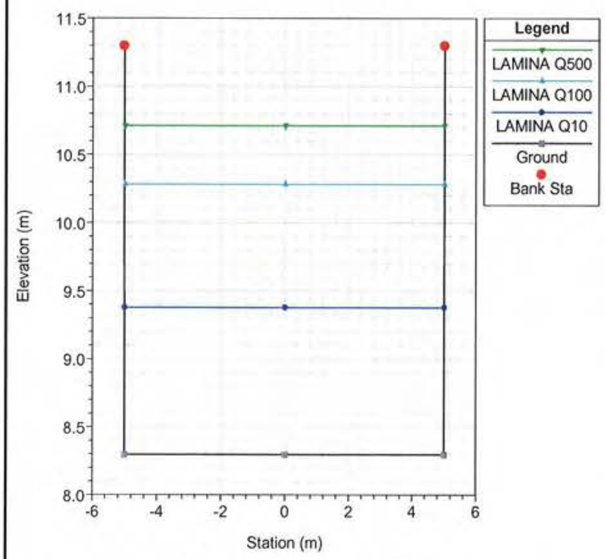

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 95.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 90.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

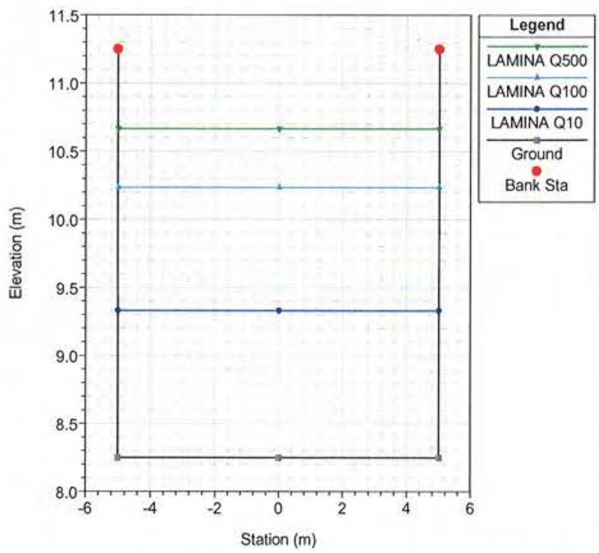

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 85.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 80
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

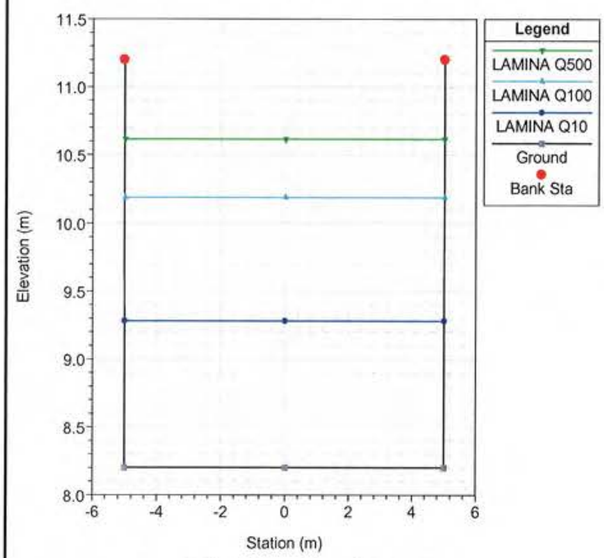
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 75.*



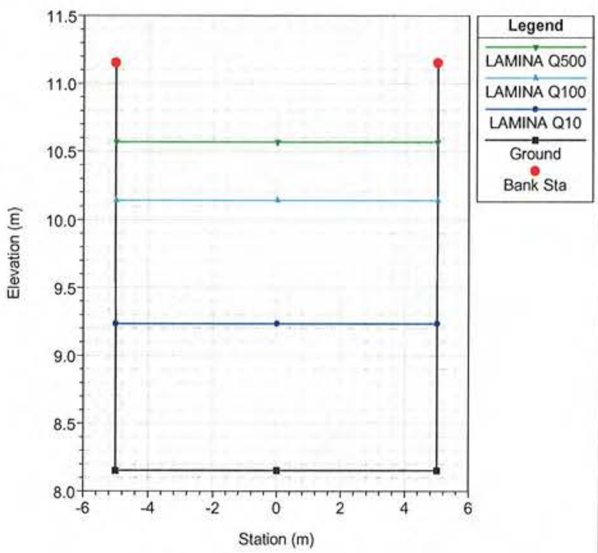
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 70.*



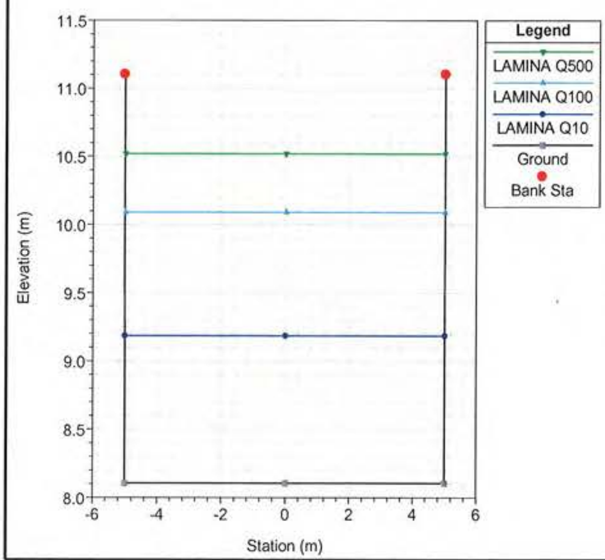
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 65.*



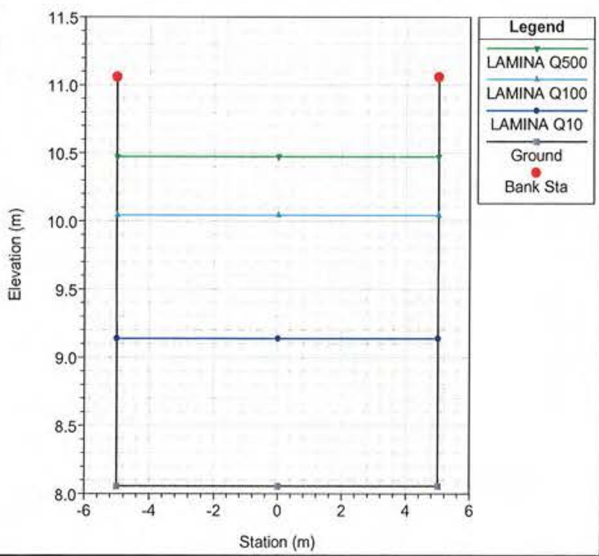
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 60

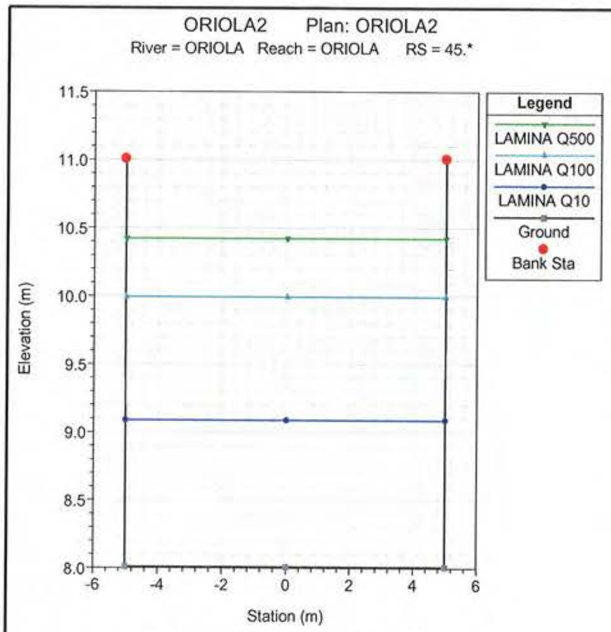


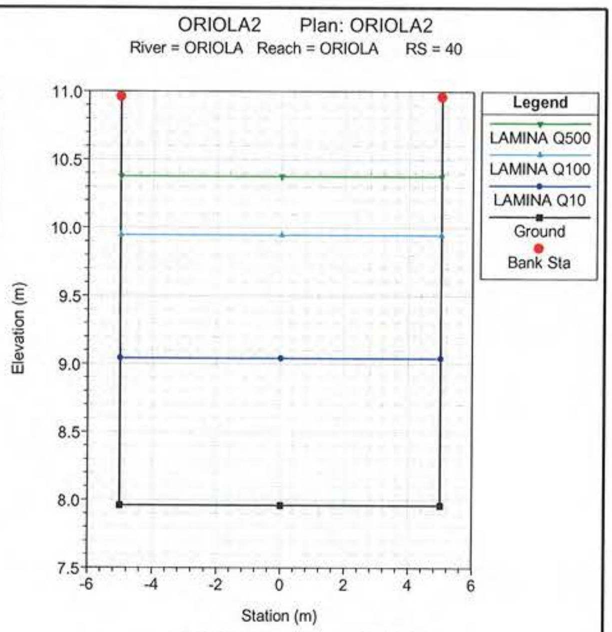
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 55.*

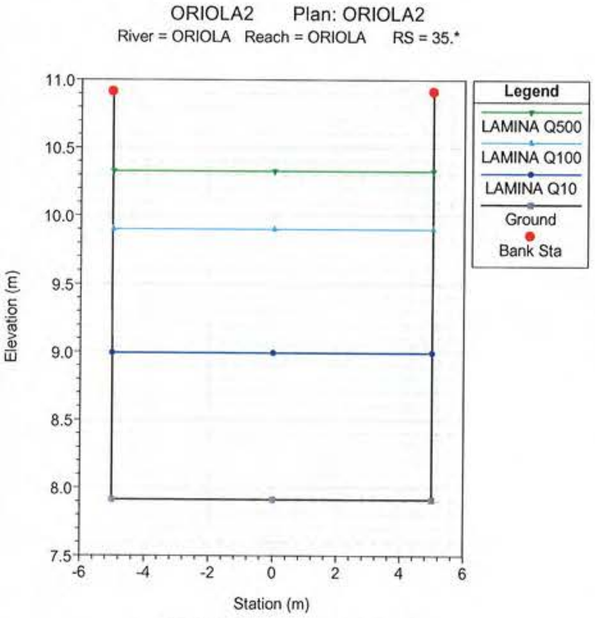


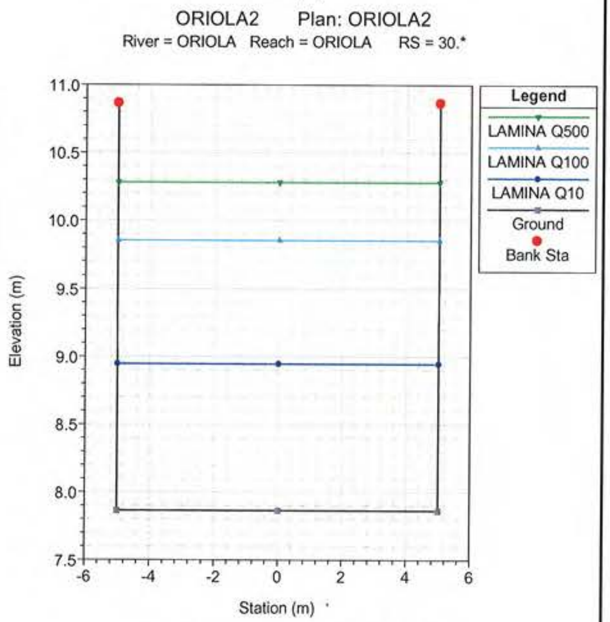
ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 50.*

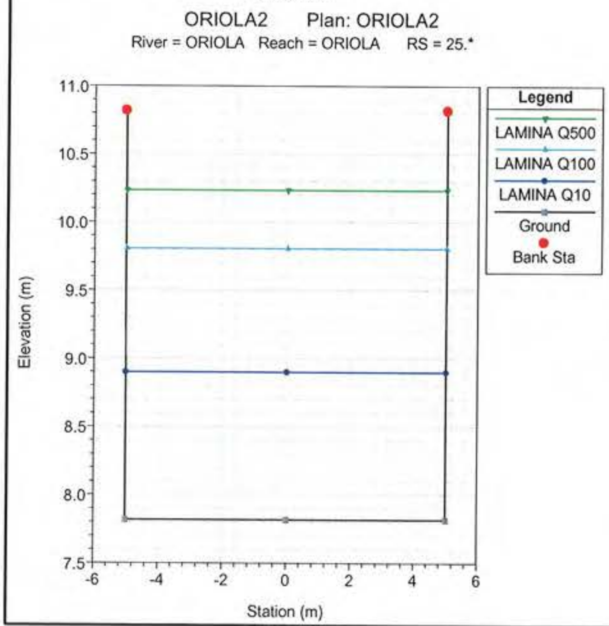


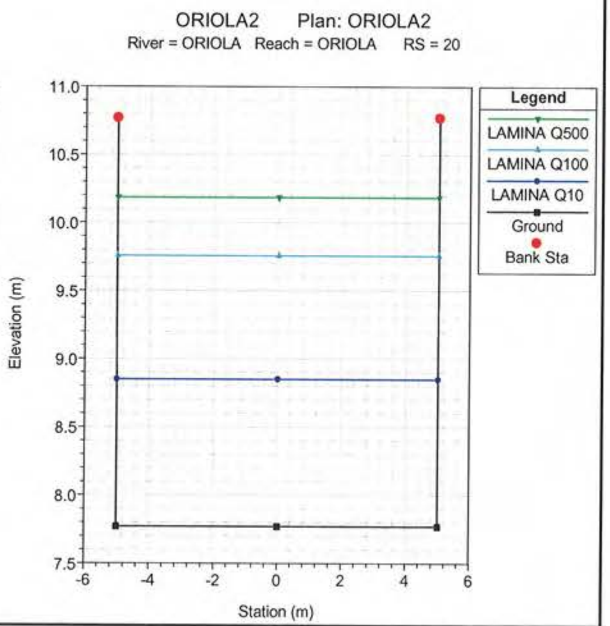

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 45.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.5
11.0
10.5
10.0
9.5
9.0
8.5
8.0
-6 -4 -2 0 2 4 6
Station (m)

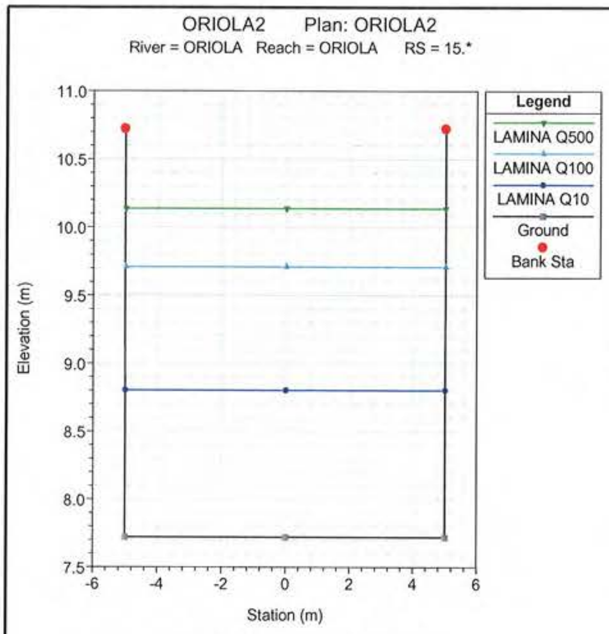

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 40
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
-6 -4 -2 0 2 4 6
Station (m)

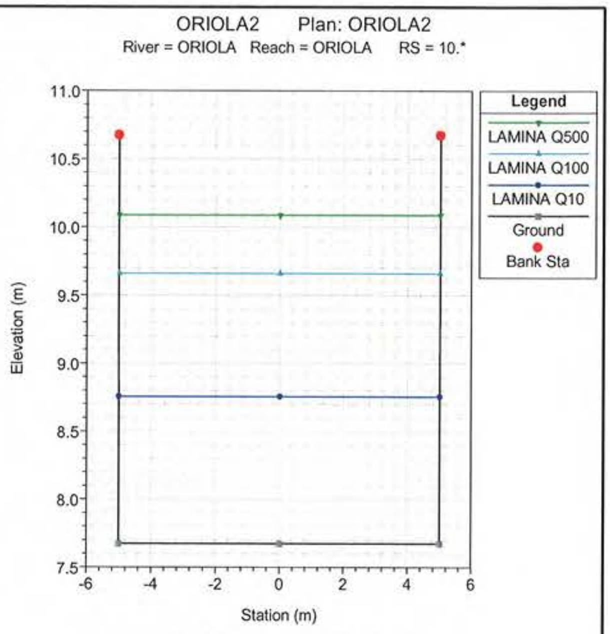

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 35.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
-6 -4 -2 0 2 4 6
Station (m)

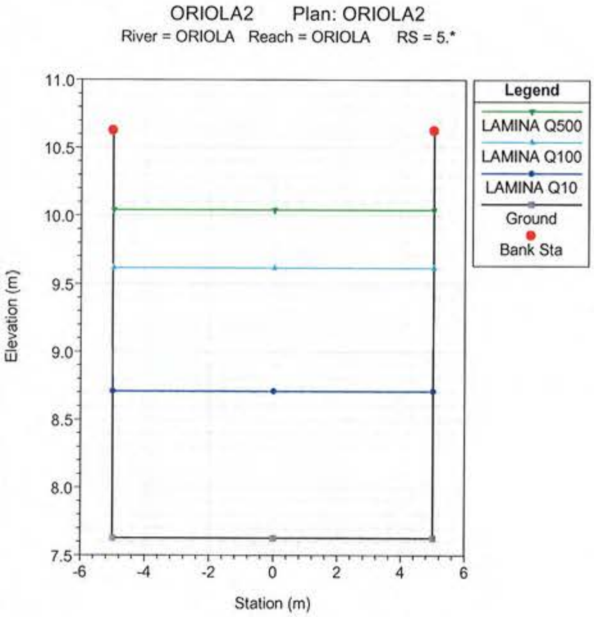

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 30.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
-6 -4 -2 0 2 4 6
Station (m)

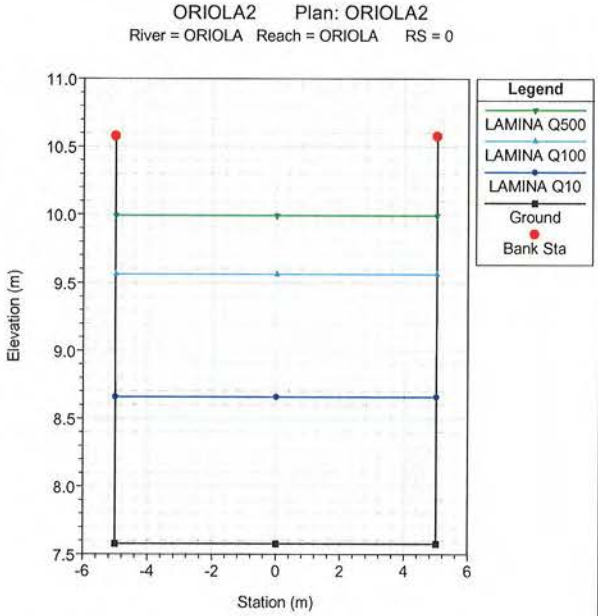

ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 25.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
-6 -4 -2 0 2 4 6
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 20
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
11.0
10.5
10.0
9.5
9.0
8.5
8.0
7.5
-6 -4 -2 0 2 4 6
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 15.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 10.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 5.*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


ORIOLA2 Plan: ORIOLA2
River = ORIOLA Reach = ORIOLA RS = 0
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

ANNEX 3. CALCULS HIDROLOGICS BARRANC DE COMES

Per al càlcul dels cabals es seguiran les "Recomanacions Tècniques per als estudis d'inundabilitat d'àmbit local", publicat per l'Agència Catalana de l'Aigua el març de 2003.

1. METEREOLOGIA

Les dades pluviomètriques s'han obtingut de la estació meteorològica d'Amposta que es la més propera a les conca del torrent de Comes, segons el resum estadístic de les dades de pluges considerades a Catalunya per F. Elías al seu llibre "Precipitaciones máximas en España" a la estació d'Amposta.

Segons F. Elias

L'estudi de cabals es realitzarà per als períodes de retorn de 10, 100 i 500 anys. A continuació es reprodueix en una taula els valors de l'estació 9-987 d'Amposta.

PAS DE LES DADES DE LA DISTRIBUCIÓ GUMBEL A LA DISTRIBUCIÓ SQR-Etmáx			
Estació utilitzada			Amposta
Mitja			77,2
Desviació típica			31,3
Coeficient de variació Cv			**0,40**
Període de retorn	**Precipitació segons F. Elías**	**Valor del Coeficient**	**Precipitació SQR-Etmax**
10	125,4	0,981843	123,10
100	191,4	1,064725	203,8
500	213,1	1,138189	242,5

2. CABALS DE MÀXIMA AVINGUDA

El càlcul dels cabals d'avinguda es realitzaran pel mètode hidrometereològic en el que:

Fórmula Racional: $$Q = \frac{C \cdot I \cdot A}{3,6} \cdot K$$

Essent,

C : Coeficient d'escorrentiu de la conca

A : Àrea de la conca (Km^2)

It : Intensitat mitja de precipitació corresponent al període de retorn considerat i a un interval igual al temps de concentració

K : Coeficient d'uniformitat que el CEDEX ha estimat experimentalment

En $K = 1 + \frac{T_c^{1,25}}{T_c^{1,25} + 14}$

2.1. Coeficient d'escorrentiu

El coeficient d'escorrentiu depèn de la raó entre la precipitació diària Pd corresponent al període de retorn i el llindar d'escorrentiu Po, a partir del qual s'inicia aquesta. El valor del coeficient d'escorrentiu s'obté de la fórmula:

$$C = \frac{(P_d^{'} - P_0^{'}) \cdot (P_d^{'} + 23 \cdot P_0^{'})}{(P_d^{'} + 11 \cdot P_0^{'})^2}$$

$P_d^{'}$ és el volum de precipitació diària (mm) minorat pel coeficient de simultaneïtat K_A per a conques de més d'un Km^2. Com resulta ser el cas d'estudi.

$$P_d^{'} = K_A \cdot P_d$$

On,

$$K_A = 1 \quad \text{si } A<1Km^2$$

$$K_A = 1 - \frac{\log A}{15} \quad \text{si } A>1Km^2$$

Dades de les conques:

Les dades de la conca es determinen en base a eines GIS aplicades a una cartografia on es determina la superfície de la conca, els punts alts i baixos, la longitud del curs principal , les característiques del sol i el mapa d'usos.

CONCA DE COMES

Àrea de la conca : 3,32 Km^2

D'on resulta un $K_{A\ LAVERNÓ}=0,965$

Punt alt:	100 m.s.n.m.
Punt baix:	5 m.s.n.m.
Longitud llera:	3.701 metres
Llindar d'escorrentiu (Po):	19
Coeficient corrector:	1,3

A continuació es presenta una taula resum tenint en compte els valors diversos dels P_d per als períodes de retorn considerats:

COMES

T (Anys)	C (coeficient d'escorrentiu)
10	0.4431
100	0.6251
500	0.7153

2.2. Intensitat mitja de precipitació

La intensitat mitja It (mm/h) de precipitació a utilitzar en l'estimació de cabals es podrà obtenir de la fórmula:

$$\frac{I_t}{I_d} = \left(\frac{I_1}{I_d}\right)^{\left(\frac{28^{0.1}-t^{0.1}}{28^{0.1}-1}\right)}$$

Essent,

Id (mm/h) : intensitat mitja diària de precipitació corresponent al període de retorn considerat. És igual a Pd/24

I1 (mm/h) : intensitat horària de precipitació corresponent a l'esmentat període de retorn. El valor de la raó I1/Id és d´11 per a la zona de Catalunya.

t (h) : durada de l'intèrval al qual es refereix It que es prendrà igual al t temps de concentració.

2.3. Temps de concentració

L'obtindrem a partir de la fórmula:

Conca

$$T_C = .0.3.\left[\left(\frac{L}{j^{1/4}}\right)^{0.76}\right]$$

T_C : temps de concentració en hores

L : longitud de la llera principal en Km

j : pendent mitja en m/m

La longitud de la llera principal i les pendents mitges de les conques queden exposades en les següents taules:

COMES

L (Km)	j
3.701	0.0256

Amb les dades anteriors en resulta uns temps de concentració de:
COMES

T_c (h)
1,63

Aplicant els valors obtinguts a la fórmula de la intensitat mitja de precipitació obtenim les It (mm/h) següents:

COMES

T (Anys)	I_t (mm/h)
10	44,04
100	74,53
500	99,60

Finalment, amb els valors obtinguts i aplicant la fórmula del mètode racional per al cabal, tenim:

COMES

T (Anys)	Q (m^3/seg) Lavernó
10	20,08
100	47,95
500	73,32

ANNEX 4. CÀLCULS HIDRAULICS BARRANC DE COMES

1. CÀLCULS HIDRÀULICS

Per introduir la informació prèvia en el programa HEC.RAS 3.1.3. s'utilitza el programa HEC-GEORas 4.1.1. para ARCGIS 9.1 on a partir d'una TIN (malla obtinguda a partir de topografia a escala 1:1000) es determinen les seccions del terreny i els paràmetres necessaris per poder fer l'estudi d'inundabilitat.

En el programa HEC-GEORas 4.1.1. para ARCGIS 9.1 s'introdueixen gràficament la línia indicativa de la llera, les línies que indiquen els "banks" (zones on canvia la zona del barranc respecte a la plana d'inundació) i les seccions transversals.

A partir d'aquestes dades el programa genera un arxiu d'exportació para HEC-RAS 3.1.3 amb el que s'importa la geometria del barranc

Per l'estimació del coeficient de Manning, i tenint en compte que el programa només permet considerar un coeficient de Manning per la llera i un per cadascun dels marges s'han considerat valors de *0,04 i 0,045 respectivament* basant-se en els llibres "Recomendaciones para la redacción de proyectos de saneamiento de la comarca" redactat per la Comisión de Urbanismo y Servicios comunes de Barcelona y otros municipios ,"Hidràulica de Canales Abiertos" de Ven Te Chow i l'ajuda del programa (en versió 3.1.3)

Un cop efectuat el càlcul s'exporta la solució al programa HEC-GEORas on es reflecteix la zona inundable que es reflecteix als plànols.

Un cop efectuat el càlcul amb el programa Hec-Ras (regim mixt) en els dos estats, es comparen les cotes dels nivells de la lamina d'aigua per període de retorn 10 , 100 i 500 anys en una taula que s'adjunta.

També es presenta una taula en els dos casos en la que s'indica, per a cada secció considerada, el cabal (Q_{Total}), el nivell de l'aigua (*W.S. Elev*), alçada de la làmina crítica (*Crit W.S.*), la línia d'energia (*E.G. Elev*) i el seu pendent (*E.G. Slope*) ,la velocitat de l'aigua (*Vel Chnl*) i el calat de l'aigua (Diff).

També s'adjunten les seccions transversals on es pot s'indiquen els calats , línies d'energia i de lamina critica per cada període de retorn.

Per tal de poder identificar els diferents paràmetres dels llistats s'adjunta la taula següent.

Aparició llistats	**Significat**
E.G. Elev (m)	Cota de la línia d'energia
W.S. Elev (m)	Cota de la superfície de l'aigua
Critic W.S. (m)	Cota del calat crític
E.G. Slope (m/m)	Pendent de la línia d'energia
Q Total (m3/s)	Cabal total
Top Width (m)	Amplada del col·lector
Vel Total (m/s)	Velocitat
Max Chl Dpth (m)	Calat
Length Wtd. (m)	Distancia a la propera secció
Min Chl El (m)	Cota de la solera del col·lector
Diff (m)	Diferencia solera - lamina aigua
Frctn Loss (m)	Pèrdues per fricció
C&E Loss (m)	Pèrdues per contracció & expansió

Tota les informacions que es desprenen d'aquest càlcul hidràulic estan representades en el document de plànols.

De la interpretació d'aquests resultats es desprenen les conclusions d'aquest document que es poden llegir a la memòria.

4.1 QUADRES DE RESULTATS

HEC-RAS Plan: COMES River: Comes Reach: Tot

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	15.410	Q500	53.53	4.00	4.69	4.46	4.77	0.005002	1.25	42.70	71.45	0.52
Tot	15.410	Q100	42.60	4.00	4.60	4.40	4.67	0.005008	1.15	36.89	69.93	0.51
Tot	15.410	Q10	18.20	4.00	4.38	4.24	4.41	0.005005	0.85	21.50	64.93	0.47
Tot	21.53*	Q500	53.53	4.00	4.70		4.82	0.008652	1.55	34.43	62.95	0.67
Tot	21.53*	Q100	42.60	4.00	4.62		4.72	0.008489	1.44	29.63	60.06	0.65
Tot	21.53*	Q10	18.20	4.00	4.40		4.46	0.007509	1.04	17.44	52.17	0.58
Tot	27.650	Q500	53.53	4.00	4.80		4.85	0.002899	1.04	51.54	75.94	0.40
Tot	27.650	Q100	42.60	4.00	4.71		4.76	0.002798	0.95	44.92	73.85	0.39
Tot	27.650	Q10	18.20	4.00	4.46		4.48	0.002434	0.67	27.19	67.94	0.34
Tot	36.875*	Q500	53.53	4.00	4.82		4.89	0.003433	1.11	48.30	73.33	0.44
Tot	36.875*	Q100	42.60	4.00	4.73		4.79	0.003305	1.02	41.91	70.41	0.42
Tot	36.875*	Q10	18.20	4.00	4.48		4.51	0.002899	0.73	25.04	63.04	0.37
Tot	46.1*	Q500	53.53	4.00	4.85		4.92	0.004013	1.16	46.09	73.34	0.47
Tot	46.1*	Q100	42.60	4.00	4.76		4.82	0.003907	1.07	39.65	69.52	0.45
Tot	46.1*	Q10	18.20	4.00	4.51		4.54	0.003579	0.79	23.18	60.90	0.41
Tot	55.325*	Q500	53.53	4.00	4.89		4.96	0.004248	1.16	46.16	76.84	0.48
Tot	55.325*	Q100	42.60	4.00	4.80		4.86	0.004311	1.08	39.31	73.27	0.47
Tot	55.325*	Q10	18.20	4.00	4.54		4.58	0.004182	0.82	22.11	60.81	0.44
Tot	64.55*	Q500	53.53	4.00	4.94		5.00	0.003489	1.08	49.64	79.48	0.44
Tot	64.55*	Q100	42.60	4.00	4.85		4.90	0.003560	1.00	42.49	77.07	0.43
Tot	64.55*	Q10	18.20	4.00	4.58		4.61	0.003793	0.77	23.69	67.17	0.41
Tot	73.775	Q500	53.53	4.00	4.98		5.02	0.002436	0.95	56.42	83.60	0.37
Tot	73.775	Q100	42.60	4.00	4.89		4.92	0.002402	0.87	48.83	81.21	0.36
Tot	73.775	Q10	18.20	4.00	4.62		4.64	0.002153	0.64	28.56	70.14	0.32
Tot	82.0874*	Q500	53.53	4.00	5.00		5.05	0.002542	0.99	54.13	77.76	0.38
Tot	82.0874*	Q100	42.60	4.00	4.90		4.95	0.002524	0.91	47.05	76.78	0.37
Tot	82.0874*	Q10	18.20	4.00	4.64		4.66	0.002478	0.67	27.30	69.56	0.34
Tot	90.3998*	Q500	53.53	4.00	5.02		5.07	0.002720	1.02	52.73	76.60	0.39
Tot	90.3998*	Q100	42.60	4.00	4.92		4.97	0.002746	0.93	45.74	76.21	0.38
Tot	90.3998*	Q10	18.20	4.00	4.66		4.68	0.002800	0.69	26.20	68.85	0.36
Tot	98.7122*	Q500	53.53	4.00	5.04		5.09	0.002925	1.04	51.50	76.22	0.40
Tot	98.7122*	Q100	42.60	4.00	4.95		4.99	0.002981	0.96	44.57	75.95	0.40
Tot	98.7122*	Q10	18.20	4.00	4.68		4.71	0.003093	0.72	25.31	68.02	0.38
Tot	107.024*	Q500	53.53	4.00	5.06		5.12	0.003139	1.06	50.35	75.99	0.42
Tot	107.024*	Q100	42.60	4.00	4.97		5.02	0.003222	0.98	43.50	75.79	0.41
Tot	107.024*	Q10	18.20	4.00	4.71		4.74	0.003321	0.74	24.59	66.76	0.39
Tot	115.337	Q500	53.53	4.00	5.09		5.15	0.003352	1.09	49.32	75.82	0.43
Tot	115.337	Q100	42.60	4.00	5.00		5.05	0.003452	1.00	42.55	75.55	0.43
Tot	115.337	Q10	18.20	4.00	4.74		4.76	0.003468	0.76	24.07	65.36	0.40
Tot	124.690*	Q500	53.53	4.00	5.12		5.18	0.003317	1.11	48.37	71.70	0.43
Tot	124.690*	Q100	42.60	4.00	5.03		5.08	0.003228	1.01	42.10	69.95	0.42
Tot	124.690*	Q10	18.20	4.00	4.77		4.80	0.003242	0.74	24.46	64.71	0.39
Tot	134.044*	Q500	53.53	4.00	5.15		5.21	0.003216	1.11	48.08	68.99	0.43
Tot	134.044*	Q100	42.60	4.00	5.06		5.11	0.003148	1.01	41.98	68.15	0.41
Tot	134.044*	Q10	18.20	4.00	4.80		4.83	0.003102	0.74	24.68	63.98	0.38
Tot	143.398*	Q500	53.53	4.00	5.18		5.24	0.003171	1.12	47.90	67.60	0.42
Tot	143.398*	Q100	42.60	4.00	5.09		5.14	0.003102	1.02	41.88	66.97	0.41
Tot	143.398*	Q10	18.20	4.00	4.83		4.85	0.003006	0.73	24.79	63.21	0.37
Tot	152.751*	Q500	53.53	4.00	5.20		5.27	0.003147	1.12	47.71	66.52	0.42
Tot	152.751*	Q100	42.60	4.00	5.11		5.17	0.003079	1.02	41.75	66.04	0.41
Tot	152.751*	Q10	18.20	4.00	4.85		4.88	0.002947	0.73	24.81	62.41	0.37
Tot	162.105*	Q500	53.53	4.00	5.23		5.30	0.003133	1.13	47.53	65.63	0.42
Tot	162.105*	Q100	42.60	4.00	5.14		5.20	0.003065	1.02	41.60	65.24	0.41
Tot	162.105*	Q10	18.20	4.00	4.88		4.91	0.002905	0.73	24.79	61.59	0.37
Tot	171.459	Q500	53.53	4.00	5.26		5.33	0.003130	1.13	47.31	64.83	0.42
Tot	171.459	Q100	42.60	4.00	5.17		5.23	0.003064	1.03	41.42	64.50	0.41
Tot	171.459	Q10	18.20	4.00	4.91		4.94	0.002882	0.74	24.72	60.76	0.37
Tot	180.863*	Q500	53.53	4.00	5.29		5.36	0.003057	1.13	47.53	64.53	0.42
Tot	180.863*	Q100	42.60	4.00	5.20		5.25	0.002923	1.02	41.64	63.17	0.40
Tot	180.863*	Q10	18.20	4.00	4.94		4.96	0.002350	0.71	25.66	57.27	0.34
Tot	190.267*	Q500	53.53	4.00	5.32		5.38	0.002743	1.11	48.43	62.32	0.40
Tot	190.267*	Q100	42.60	4.00	5.23		5.28	0.002567	1.00	42.68	60.92	0.38
Tot	190.267*	Q10	18.20	4.00	4.96		4.98	0.002029	0.68	26.74	56.83	0.32

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	199.672	Q500	53.53	4.00	5.35		5.41	0.002453	1.08	49.78	61.36	0.38
Tot	199.672	Q100	42.60	4.00	5.26		5.30	0.002289	0.97	43.99	60.25	0.36
Tot	199.672	Q10	18.20	4.00	4.98		5.00	0.001780	0.66	27.73	56.43	0.30
Tot	207.825*	Q500	53.53	4.12	5.36		5.44	0.003518	1.24	43.02	55.88	0.45
Tot	207.825*	Q100	42.60	4.12	5.27		5.33	0.003251	1.13	37.83	53.78	0.43
Tot	207.825*	Q10	18.20	4.12	4.99		5.02	0.002463	0.77	23.70	48.62	0.35
Tot	215.978*	Q500	53.53	4.24	5.39		5.47	0.003985	1.29	41.46	55.92	0.48
Tot	215.978*	Q100	42.60	4.24	5.29		5.36	0.003825	1.18	36.14	54.20	0.46
Tot	215.978*	Q10	18.20	4.24	5.01		5.04	0.003295	0.84	21.68	48.39	0.40
Tot	224.131*	Q500	53.53	4.37	5.42		5.50	0.004189	1.28	41.86	59.49	0.49
Tot	224.131*	Q100	42.60	4.37	5.32		5.39	0.004147	1.18	36.04	57.23	0.48
Tot	224.131*	Q10	18.20	4.37	5.04		5.07	0.004080	0.88	20.62	50.17	0.44
Tot	232.284*	Q500	53.53	4.49	5.46		5.54	0.003728	1.22	43.78	60.94	0.46
Tot	232.284*	Q100	42.60	4.49	5.36		5.43	0.003836	1.13	37.68	60.32	0.46
Tot	232.284*	Q10	18.20	4.49	5.07		5.11	0.004495	0.88	20.70	54.46	0.46
Tot	240.437	Q500	53.53	4.61	5.50		5.57	0.003214	1.16	46.25	62.52	0.43
Tot	240.437	Q100	42.60	4.61	5.40		5.46	0.003270	1.07	39.99	62.04	0.42
Tot	240.437	Q10	18.20	4.61	5.11		5.14	0.003892	0.81	22.47	60.01	0.42
Tot	250.233*	Q500	53.53	4.64	5.52		5.61	0.004261	1.28	41.80	60.02	0.49
Tot	250.233*	Q100	42.60	4.64	5.43		5.50	0.004408	1.19	35.91	59.33	0.49
Tot	250.233*	Q10	18.20	4.64	5.15		5.19	0.005330	0.92	19.82	55.49	0.49
Tot	260.030*	Q500	53.53	4.67	5.56		5.66	0.005235	1.38	38.80	58.15	0.54
Tot	260.030*	Q100	42.60	4.67	5.46		5.55	0.005434	1.28	33.25	57.29	0.54
Tot	260.030*	Q10	18.20	4.67	5.20		5.25	0.005637	0.97	18.78	50.58	0.51
Tot	269.827	Q500	53.53	4.70	5.61		5.71	0.005087	1.38	38.87	57.02	0.53
Tot	269.827	Q100	42.60	4.70	5.52		5.60	0.005036	1.27	33.58	55.34	0.52
Tot	269.827	Q10	18.20	4.70	5.25		5.30	0.004775	0.92	19.70	50.29	0.47
Tot	276.506*	Q500	53.53	4.66	5.65		5.74	0.005113	1.38	38.71	56.78	0.53
Tot	276.506*	Q100	42.60	4.66	5.55		5.63	0.005117	1.27	33.42	55.48	0.52
Tot	276.506*	Q10	18.20	4.66	5.29		5.33	0.004588	0.93	19.63	48.40	0.46
Tot	283.185*	Q500	53.53	4.61	5.68		5.78	0.004733	1.36	39.32	55.70	0.52
Tot	283.185*	Q100	42.60	4.61	5.59		5.67	0.004647	1.25	34.14	54.39	0.50
Tot	283.185*	Q10	18.20	4.61	5.32		5.36	0.004014	0.90	20.30	47.62	0.44
Tot	289.864	Q500	53.53	4.57	5.72		5.81	0.004281	1.33	40.34	55.01	0.49
Tot	289.864	Q100	42.60	4.57	5.62		5.70	0.004174	1.21	35.18	54.03	0.48
Tot	289.864	Q10	18.20	4.57	5.35		5.38	0.003673	0.87	20.92	47.99	0.42
Tot	299.276*	Q500	53.53	4.65	5.77		5.84	0.003293	1.23	43.58	54.83	0.44
Tot	299.276*	Q100	42.60	4.65	5.67		5.73	0.003037	1.11	38.34	52.79	0.42
Tot	299.276*	Q10	18.20	4.65	5.38		5.41	0.002375	0.76	23.94	48.49	0.35
Tot	308.689*	Q500	53.53	4.73	5.80		5.87	0.002575	1.14	46.99	55.07	0.39
Tot	308.689*	Q100	42.60	4.73	5.70		5.76	0.002413	1.03	41.46	54.03	0.37
Tot	308.689*	Q10	18.20	4.73	5.41		5.43	0.001904	0.70	26.03	50.63	0.31
Tot	318.101*	Q500	53.53	4.80	5.84		5.89	0.002209	1.06	50.28	58.15	0.37
Tot	318.101*	Q100	42.60	4.80	5.73		5.78	0.002082	0.96	44.25	56.96	0.35
Tot	318.101*	Q10	18.20	4.80	5.43		5.45	0.001720	0.66	27.48	53.74	0.30
Tot	327.514	Q500	53.53	4.88	5.87		5.91	0.001945	0.98	54.74	65.38	0.34
Tot	327.514	Q100	42.60	4.88	5.76		5.80	0.001865	0.89	47.76	63.49	0.33
Tot	327.514	Q10	18.20	4.88	5.45		5.47	0.001658	0.63	28.78	58.66	0.29
Tot	336.185*	Q500	53.53	4.92	5.87		5.94	0.003225	1.18	45.49	60.17	0.43
Tot	336.185*	Q100	42.60	4.92	5.76		5.82	0.003301	1.09	39.09	59.07	0.43
Tot	336.185*	Q10	18.20	4.92	5.46		5.49	0.003887	0.84	21.60	54.30	0.43
Tot	344.857*	Q500	53.53	4.96	5.89		5.99	0.005489	1.42	37.83	56.57	0.55
Tot	344.857*	Q100	42.60	4.96	5.78		5.87	0.005807	1.33	31.99	54.70	0.56
Tot	344.857*	Q10	18.20	4.96	5.49		5.54	0.007397	1.08	16.84	47.25	0.58
Tot	353.529	Q500	53.53	5.00	5.89	5.76	6.08	0.009903	1.92	27.83	50.93	0.74
Tot	353.529	Q100	42.60	5.00	5.80	5.67	5.96	0.009628	1.76	24.19	48.57	0.72
Tot	353.529	Q10	18.20	5.00	5.54	5.42	5.62	0.008772	1.26	14.39	39.98	0.64
Tot	354.501*	Q500	53.53	4.99	5.90	5.76	6.08	0.009623	1.92	27.91	50.42	0.74
Tot	354.501*	Q100	42.60	4.99	5.81	5.67	5.96	0.009269	1.75	24.33	48.17	0.71
Tot	354.501*	Q10	18.20	4.99	5.55	5.43	5.63	0.008098	1.24	14.68	40.20	0.62
Tot	355.473*	Q500	53.53	4.99	5.91	5.76	6.09	0.009344	1.91	27.99	49.94	0.73
Tot	355.473*	Q100	42.60	4.99	5.82	5.67	5.97	0.008930	1.74	24.47	47.71	0.70

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tot	355.473*	Q10	18.20	4.99	5.56	5.43	5.64	0.007556	1.22	14.92	40.23	0.60
Tot	356.446*	Q500	53.53	4.98	5.92	5.76	6.10	0.009081	1.91	28.06	49.63	0.72
Tot	356.446*	Q100	42.60	4.98	5.83	5.67	5.98	0.008614	1.73	24.59	47.22	0.69
Tot	356.446*	Q10	18.20	4.98	5.57	5.43	5.64	0.007075	1.20	15.15	40.11	0.58
Tot	357.418*	Q500	53.53	4.97	5.93	5.77	6.11	0.008857	1.91	28.09	49.15	0.71
Tot	357.418*	Q100	42.60	4.97	5.84	5.67	5.99	0.008344	1.73	24.68	46.84	0.68
Tot	357.418*	Q10	18.20	4.97	5.58	5.43	5.65	0.006674	1.19	15.33	39.90	0.57
Tot	358.390*	Q500	53.53	4.96	5.93	5.77	6.12	0.008689	1.91	28.06	48.55	0.71
Tot	358.390*	Q100	42.60	4.96	5.84	5.68	6.00	0.008138	1.72	24.71	46.41	0.67
Tot	358.390*	Q10	18.20	4.96	5.58	5.43	5.65	0.006376	1.18	15.47	39.44	0.56
Tot	359.363*	Q500	53.53	4.95	5.94	5.77	6.13	0.008527	1.91	28.03	48.02	0.70
Tot	359.363*	Q100	42.60	4.95	5.85	5.68	6.00	0.007942	1.72	24.73	46.15	0.67
Tot	359.363*	Q10	18.20	4.95	5.59	5.43	5.66	0.006077	1.17	15.60	38.84	0.55
Tot	360.335*	Q500	53.53	4.95	5.95	5.77	6.14	0.008388	1.91	27.98	47.57	0.70
Tot	360.335*	Q100	42.60	4.95	5.86	5.68	6.01	0.007774	1.72	24.72	45.75	0.66
Tot	360.335*	Q10	18.20	4.95	5.60	5.43	5.67	0.005822	1.16	15.71	38.25	0.54
Tot	361.308*	Q500	53.53	4.94	5.96	5.78	6.15	0.008280	1.92	27.89	47.20	0.70
Tot	361.308*	Q100	42.60	4.94	5.87	5.68	6.02	0.007639	1.73	24.68	45.27	0.66
Tot	361.308*	Q10	18.20	4.94	5.60	5.43	5.67	0.005614	1.15	15.78	37.67	0.53
Tot	362.280*	Q500	53.53	4.93	5.96	5.78	6.15	0.008203	1.93	27.76	46.97	0.69
Tot	362.280*	Q100	42.60	4.93	5.87	5.68	6.03	0.007533	1.73	24.60	44.86	0.65
Tot	362.280*	Q10	18.20	4.93	5.61	5.43	5.68	0.005439	1.15	15.82	37.08	0.52
Tot	363.252*	Q500	53.53	4.92	5.97	5.78	6.16	0.008133	1.94	27.63	46.73	0.69
Tot	363.252*	Q100	42.60	4.92	5.88	5.69	6.03	0.007437	1.74	24.52	44.61	0.65
Tot	363.252*	Q10	18.20	4.92	5.62	5.42	5.68	0.005279	1.15	15.85	36.59	0.52
Tot	364.225*	Q500	53.53	4.91	5.98	5.79	6.17	0.008090	1.95	27.46	46.88	0.69
Tot	364.225*	Q100	42.60	4.91	5.89	5.69	6.04	0.007367	1.75	24.40	44.53	0.65
Tot	364.225*	Q10	18.20	4.91	5.62	5.42	5.69	0.005149	1.15	15.86	36.05	0.51
Tot	365.197*	Q500	53.53	4.91	5.98	5.79	6.18	0.008069	1.96	27.27	47.51	0.69
Tot	365.197*	Q100	42.60	4.91	5.89	5.69	6.05	0.007320	1.76	24.26	44.70	0.65
Tot	365.197*	Q10	18.20	4.91	5.63	5.42	5.69	0.005042	1.15	15.84	35.55	0.51
Tot	366.170	Q500	53.53	4.90	5.99	5.80	6.19	0.008068	1.98	27.05	50.02	0.69
Tot	366.170	Q100	42.60	4.90	5.90	5.70	6.06	0.007291	1.77	24.09	45.94	0.65
Tot	366.170	Q10	18.20	4.90	5.63	5.42	5.70	0.004953	1.15	15.80	35.13	0.50
Tot	367.162*	Q500	53.53	4.91	5.99	5.82	6.20	0.008749	2.04	26.24	47.90	0.72
Tot	367.162*	Q100	42.60	4.91	5.90	5.72	6.07	0.007928	1.82	23.36	45.00	0.68
Tot	367.162*	Q10	18.20	4.91	5.63	5.44	5.70	0.005525	1.20	15.20	34.65	0.53
Tot	368.155*	Q500	53.53	4.91	5.99	5.84	6.22	0.009358	2.10	25.55	46.90	0.74
Tot	368.155*	Q100	42.60	4.91	5.90	5.73	6.08	0.008528	1.88	22.72	44.61	0.70
Tot	368.155*	Q10	18.20	4.91	5.63	5.46	5.71	0.006068	1.24	14.69	34.11	0.55
Tot	369.147*	Q500	53.53	4.92	6.00	5.85	6.23	0.009899	2.14	24.96	46.31	0.76
Tot	369.147*	Q100	42.60	4.92	5.91	5.75	6.09	0.009059	1.92	22.18	44.44	0.72
Tot	369.147*	Q10	18.20	4.92	5.64	5.47	5.72	0.006537	1.27	14.28	33.59	0.57
Tot	370.14*	Q500	53.53	4.92	6.00	5.87	6.24	0.010322	2.19	24.49	45.99	0.78
Tot	370.14*	Q100	42.60	4.92	5.91	5.77	6.11	0.009471	1.96	21.76	44.40	0.73
Tot	370.14*	Q10	18.20	4.92	5.64	5.49	5.73	0.006897	1.30	13.96	33.02	0.59
Tot	371.132*	Q500	53.53	4.93	6.01	5.88	6.26	0.010561	2.21	24.18	45.85	0.79
Tot	371.132*	Q100	42.60	4.93	5.92	5.78	6.12	0.009705	1.98	21.47	44.44	0.74
Tot	371.132*	Q10	18.20	4.93	5.65	5.50	5.74	0.007101	1.32	13.76	32.26	0.60
Tot	372.125*	Q500	53.53	4.94	6.02	5.89	6.27	0.010629	2.23	23.99	45.81	0.79
Tot	372.125*	Q100	42.60	4.94	5.93	5.79	6.13	0.009757	2.00	21.31	44.51	0.75
Tot	372.125*	Q10	18.20	4.94	5.65	5.50	5.74	0.007120	1.33	13.66	31.67	0.60
Tot	373.117*	Q500	53.53	4.94	6.03	5.90	6.28	0.010550	2.24	23.91	45.83	0.79
Tot	373.117*	Q100	42.60	4.94	5.93	5.79	6.14	0.009652	2.00	21.25	44.59	0.74
Tot	373.117*	Q10	18.20	4.94	5.66	5.50	5.75	0.006987	1.33	13.66	30.97	0.60
Tot	374.11*	Q500	53.53	4.95	6.04	5.91	6.29	0.010365	2.24	23.90	45.89	0.79
Tot	374.11*	Q100	42.60	4.95	5.94	5.80	6.15	0.009441	2.00	21.26	44.49	0.74
Tot	374.11*	Q10	18.20	4.95	5.67	5.50	5.76	0.006724	1.33	13.73	29.99	0.59
Tot	375.102*	Q500	53.53	4.95	6.05	5.91	6.30	0.010041	2.23	23.97	45.98	0.78
Tot	375.102*	Q100	42.60	4.95	5.95	5.80	6.16	0.009130	2.00	21.35	44.34	0.73
Tot	375.102*	Q10	18.20	4.95	5.68	5.50	5.76	0.006368	1.31	13.87	28.78	0.57
Tot	376.095*	Q500	53.53	4.96	6.06	5.91	6.31	0.009616	2.22	24.11	46.06	0.76

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tot	376.095*	Q100	42.60	4.96	5.97	5.80	6.17	0.008744	1.98	21.51	44.18	0.71
Tot	376.095*	Q10	18.20	4.96	5.68	5.49	5.77	0.005950	1.29	14.06	28.56	0.56
Tot	377.087*	Q500	53.53	4.96	6.07	5.91	6.32	0.009152	2.20	24.29	46.15	0.75
Tot	377.087*	Q100	42.60	4.96	5.98	5.79	6.17	0.008316	1.96	21.71	44.19	0.70
Tot	377.087*	Q10	18.20	4.96	5.69	5.49	5.78	0.005506	1.27	14.30	28.41	0.54
Tot	378.080	Q500	53.53	4.97	6.08	5.90	6.33	0.008673	2.19	24.50	46.24	0.73
Tot	378.080	Q100	42.60	4.97	5.99	5.79	6.18	0.007875	1.94	21.94	44.17	0.68
Tot	378.080	Q10	18.20	4.97	5.70	5.47	5.78	0.005059	1.25	14.57	28.29	0.52
Tot	400		Bridge									
Tot	445.887	Q500	53.53	5.00	6.89	6.14	7.00	0.001887	1.46	36.60	42.94	0.37
Tot	445.887	Q100	42.60	5.00	6.68	6.02	6.77	0.001945	1.35	31.63	41.73	0.37
Tot	445.887	Q10	18.20	5.00	6.19	5.68	6.23	0.001599	0.90	20.14	38.66	0.31
Tot	446.723*	Q500	53.53	5.00	6.90	6.14	7.00	0.001791	1.42	37.83	43.29	0.36
Tot	446.723*	Q100	42.60	5.00	6.69	6.03	6.77	0.001863	1.31	32.59	42.16	0.36
Tot	446.723*	Q10	18.20	5.00	6.19	5.69	6.23	0.001600	0.89	20.48	38.80	0.31
Tot	447.56*	Q500	53.53	5.00	6.91	6.14	7.01	0.001711	1.37	38.99	43.62	0.35
Tot	447.56*	Q100	42.60	5.00	6.69	6.04	6.78	0.001799	1.27	33.49	42.53	0.35
Tot	447.56*	Q10	18.20	5.00	6.19	5.69	6.23	0.001614	0.88	20.77	39.07	0.31
Tot	448.396*	Q500	53.53	5.00	6.92	6.15	7.01	0.001649	1.34	40.06	43.99	0.35
Tot	448.396*	Q100	42.60	5.00	6.70	6.04	6.78	0.001750	1.24	34.31	43.01	0.35
Tot	448.396*	Q10	18.20	5.00	6.20	5.70	6.23	0.001645	0.87	20.98	39.45	0.31
Tot	449.233*	Q500	53.53	5.00	6.92	6.16	7.01	0.001595	1.30	41.08	44.23	0.34
Tot	449.233*	Q100	42.60	5.00	6.70	6.05	6.78	0.001710	1.21	35.08	43.40	0.34
Tot	449.233*	Q10	18.20	5.00	6.20	5.70	6.24	0.001685	0.86	21.15	40.12	0.31
Tot	450.069*	Q500	53.53	5.00	6.93	6.16	7.01	0.001546	1.27	42.08	44.47	0.33
Tot	450.069*	Q100	42.60	5.00	6.71	6.06	6.78	0.001673	1.19	35.83	43.65	0.34
Tot	450.069*	Q10	18.20	5.00	6.20	5.71	6.24	0.001727	0.85	21.31	41.24	0.32
Tot	450.906	Q500	53.53	5.00	6.93	6.17	7.01	0.001500	1.24	43.07	44.70	0.33
Tot	450.906	Q100	42.60	5.00	6.71	6.07	6.78	0.001638	1.16	36.57	43.89	0.33
Tot	450.906	Q10	18.20	5.00	6.20	5.72	6.24	0.001770	0.85	21.45	42.00	0.32
Tot	451.836*	Q500	53.53	5.00	6.94	6.16	7.01	0.001428	1.22	43.96	44.31	0.32
Tot	451.836*	Q100	42.60	5.00	6.72	6.06	6.78	0.001555	1.14	37.36	43.38	0.33
Tot	451.836*	Q10	18.20	5.00	6.21	5.71	6.24	0.001661	0.83	21.99	41.37	0.31
Tot	452.767*	Q500	53.53	5.00	6.94	6.15	7.01	0.001369	1.20	44.77	44.11	0.31
Tot	452.767*	Q100	42.60	5.00	6.72	6.05	6.79	0.001487	1.12	38.08	42.91	0.32
Tot	452.767*	Q10	18.20	5.00	6.21	5.71	6.24	0.001578	0.81	22.46	40.75	0.30
Tot	453.698*	Q500	53.53	5.00	6.95	6.14	7.02	0.001314	1.17	45.58	43.97	0.31
Tot	453.698*	Q100	42.60	5.00	6.73	6.05	6.79	0.001425	1.10	38.79	42.51	0.31
Tot	453.698*	Q10	18.20	5.00	6.21	5.71	6.24	0.001503	0.79	22.92	39.52	0.29
Tot	454.629*	Q500	53.53	5.00	6.95	6.13	7.02	0.001261	1.15	46.40	43.75	0.30
Tot	454.629*	Q100	42.60	5.00	6.73	6.04	6.79	0.001364	1.08	39.51	42.34	0.31
Tot	454.629*	Q10	18.20	5.00	6.21	5.70	6.24	0.001430	0.78	23.39	38.30	0.29
Tot	455.559*	Q500	53.53	5.00	6.95	6.12	7.02	0.001208	1.13	47.25	43.58	0.30
Tot	455.559*	Q100	42.60	5.00	6.73	6.03	6.79	0.001304	1.06	40.26	42.24	0.30
Tot	455.559*	Q10	18.20	5.00	6.22	5.70	6.25	0.001355	0.76	23.90	37.30	0.28
Tot	456.490*	Q500	53.53	5.00	6.96	6.12	7.02	0.001156	1.11	48.14	43.38	0.29
Tot	456.490*	Q100	42.60	5.00	6.74	6.02	6.79	0.001245	1.04	41.05	41.98	0.29
Tot	456.490*	Q10	18.20	5.00	6.22	5.69	6.25	0.001281	0.74	24.43	36.68	0.27
Tot	457.421*	Q500	53.53	5.00	6.96	6.11	7.02	0.001106	1.09	49.04	43.28	0.28
Tot	457.421*	Q100	42.60	5.00	6.74	6.01	6.79	0.001188	1.02	41.85	41.72	0.29
Tot	457.421*	Q10	18.20	5.00	6.22	5.68	6.25	0.001210	0.73	24.98	36.29	0.27
Tot	458.352*	Q500	53.53	5.00	6.96	6.09	7.02	0.001061	1.07	49.91	43.25	0.28
Tot	458.352*	Q100	42.60	5.00	6.74	6.00	6.79	0.001137	1.00	42.63	41.53	0.28
Tot	458.352*	Q10	18.20	5.00	6.22	5.67	6.25	0.001149	0.71	25.51	36.08	0.26
Tot	459.282*	Q500	53.53	5.00	6.97	6.09	7.02	0.001019	1.05	50.79	43.24	0.27
Tot	459.282*	Q100	42.60	5.00	6.75	5.99	6.79	0.001089	0.98	43.41	41.29	0.27
Tot	459.282*	Q10	18.20	5.00	6.23	5.65	6.25	0.001091	0.70	26.04	36.19	0.25
Tot	460.213*	Q500	53.53	5.00	6.97	6.08	7.02	0.000976	1.04	51.71	43.25	0.27
Tot	460.213*	Q100	42.60	5.00	6.75	5.98	6.80	0.001041	0.96	44.23	41.14	0.27
Tot	460.213*	Q10	18.20	5.00	6.23	5.64	6.25	0.001033	0.68	26.61	36.38	0.25
Tot	461.144*	Q500	53.53	5.00	6.97	6.06	7.03	0.000931	1.02	52.71	43.24	0.26
Tot	461.144*	Q100	42.60	5.00	6.75	5.96	6.80	0.000990	0.94	45.13	41.08	0.26

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	461.144*	Q10	18.20	5.00	6.23	5.62	6.25	0.000969	0.67	27.26	36.29	0.24
Tot	462.075	Q500	53.53	5.00	6.98	6.05	7.03	0.000884	0.99	53.81	43.21	0.25
Tot	462.075	Q100	42.60	5.00	6.75	5.94	6.80	0.000935	0.92	46.14	41.12	0.26
Tot	462.075	Q10	18.20	5.00	6.23	5.60	6.25	0.000899	0.65	28.02	36.20	0.23
Tot	471.215*	Q500	53.53	5.18	6.99		7.04	0.001028	0.91	58.66	48.04	0.26
Tot	471.215*	Q100	42.60	5.18	6.77		6.81	0.001167	0.89	48.10	45.37	0.27
Tot	471.215*	Q10	18.20	5.18	6.24		6.26	0.001367	0.70	25.92	39.06	0.28
Tot	480.356*	Q500	53.53	5.37	7.00		7.05	0.001193	0.92	58.27	52.91	0.28
Tot	480.356*	Q100	42.60	5.37	6.78		6.82	0.001450	0.91	46.69	49.63	0.30
Tot	480.356*	Q10	18.20	5.37	6.25		6.28	0.002256	0.80	22.80	41.33	0.34
Tot	489.497*	Q500	53.53	5.55	7.01		7.06	0.001454	0.94	56.94	58.01	0.30
Tot	489.497*	Q100	42.60	5.55	6.79		6.84	0.001921	0.96	44.36	53.97	0.34
Tot	489.497*	Q10	18.20	5.55	6.27		6.31	0.004055	0.95	19.21	41.83	0.45
Tot	498.638*	Q500	53.53	5.74	7.03		7.08	0.001869	0.98	54.78	63.65	0.34
Tot	498.638*	Q100	42.60	5.74	6.81		6.86	0.002722	1.03	41.25	58.48	0.39
Tot	498.638*	Q10	18.20	5.74	6.30		6.37	0.007904	1.16	15.73	41.88	0.60
Tot	507.779	Q500	53.53	5.92	7.04		7.10	0.002500	1.03	52.02	69.56	0.38
Tot	507.779	Q100	42.60	5.92	6.83		6.89	0.004110	1.13	37.66	63.46	0.47
Tot	507.779	Q10	18.20	5.92	6.38	6.31	6.47	0.013328	1.35	13.51	42.36	0.76
Tot	516.755*	Q500	53.53	6.11	7.04		7.14	0.005655	1.38	38.79	61.63	0.56
Tot	516.755*	Q100	42.60	6.11	6.84	6.73	6.97	0.010506	1.59	26.84	54.99	0.73
Tot	516.755*	Q10	18.20	6.11	6.51	6.51	6.65	0.024613	1.66	10.98	39.95	1.01
Tot	525.731*	Q500	53.53	6.29	7.06	6.99	7.24	0.013810	1.91	28.08	53.70	0.84
Tot	525.731*	Q100	42.60	6.29	6.91	6.92	7.13	0.022074	2.07	20.59	49.52	1.02
Tot	525.731*	Q10	18.20	6.29	6.73	6.71	6.85	0.018875	1.49	12.24	42.96	0.89
Tot	534.707*	Q500	53.53	6.48	7.16	7.18	7.43	0.023350	2.32	23.08	48.76	1.08
Tot	534.707*	Q100	42.60	6.48	7.10	7.11	7.33	0.022011	2.11	20.24	47.29	1.03
Tot	534.707*	Q10	18.20	6.48	6.91	6.90	7.03	0.022135	1.57	11.58	42.10	0.96
Tot	543.683*	Q500	53.53	6.67	7.36	7.38	7.64	0.021347	2.31	23.22	46.25	1.04
Tot	543.683*	Q100	42.60	6.67	7.28	7.30	7.53	0.023060	2.19	19.48	44.52	1.06
Tot	543.683*	Q10	18.20	6.67	7.10	7.08	7.22	0.020114	1.55	11.74	40.54	0.92
Tot	552.659*	Q500	53.53	6.85	7.52	7.57	7.85	0.027587	2.58	20.76	42.36	1.18
Tot	552.659*	Q100	42.60	6.85	7.45	7.49	7.73	0.026315	2.34	18.17	41.29	1.13
Tot	552.659*	Q10	18.20	6.85	7.28	7.27	7.41	0.021654	1.62	11.21	38.16	0.96
Tot	561.636	Q500	53.53	7.04	7.78	7.78	8.06	0.019347	2.37	22.58	40.01	1.01
Tot	561.636	Q100	42.60	7.04	7.69	7.69	7.94	0.020206	2.22	19.18	38.72	1.01
Tot	561.636	Q10	18.20	7.04	7.47	7.46	7.61	0.021424	1.67	10.91	35.41	0.96
Tot	570.322*	Q500	53.53	7.16	8.01		8.19	0.010496	1.90	28.12	43.78	0.76
Tot	570.322*	Q100	42.60	7.16	7.92		8.08	0.010639	1.77	24.09	42.34	0.75
Tot	570.322*	Q10	18.20	7.16	7.65		7.75	0.011315	1.34	13.58	37.91	0.71
Tot	579.009*	Q500	53.53	7.28	8.10		8.29	0.011110	1.91	28.05	45.43	0.78
Tot	579.009*	Q100	42.60	7.28	8.01		8.17	0.011576	1.78	23.92	44.35	0.77
Tot	579.009*	Q10	18.20	7.28	7.76		7.85	0.013005	1.38	13.22	39.38	0.76
Tot	587.695*	Q500	53.53	7.39	8.21		8.39	0.010861	1.85	28.91	48.19	0.76
Tot	587.695*	Q100	42.60	7.39	8.12		8.27	0.011294	1.73	24.62	46.79	0.76
Tot	587.695*	Q10	18.20	7.39	7.88		7.97	0.012865	1.34	13.60	41.94	0.75
Tot	596.382*	Q500	53.53	7.51	8.32		8.48	0.010033	1.78	30.11	50.20	0.73
Tot	596.382*	Q100	42.60	7.51	8.23		8.37	0.010522	1.65	25.78	49.76	0.73
Tot	596.382*	Q10	18.20	7.51	7.99		8.08	0.012306	1.27	14.32	46.12	0.73
Tot	605.069	Q500	53.53	7.63	8.41		8.56	0.009480	1.73	31.03	51.81	0.71
Tot	605.069	Q100	42.60	7.63	8.33		8.46	0.009740	1.59	26.75	51.45	0.70
Tot	605.069	Q10	18.20	7.63	8.11		8.18	0.010869	1.18	15.41	50.47	0.68
Tot	614.194*	Q500	53.53	7.66	8.52		8.64	0.006122	1.51	35.50	52.26	0.58
Tot	614.194*	Q100	42.60	7.66	8.43		8.53	0.005996	1.37	31.04	51.86	0.57
Tot	614.194*	Q10	18.20	7.66	8.20		8.25	0.005387	0.95	19.07	50.79	0.50
Tot	623.321*	Q500	53.53	7.68	8.59		8.69	0.004996	1.42	37.81	52.51	0.53
Tot	623.321*	Q100	42.60	7.68	8.50		8.58	0.004849	1.29	33.14	52.08	0.51
Tot	623.321*	Q10	18.20	7.68	8.25		8.29	0.004238	0.89	20.51	50.91	0.45
Tot	632.447*	Q500	53.53	7.71	8.64		8.73	0.004387	1.36	39.36	52.67	0.50
Tot	632.447*	Q100	42.60	7.71	8.55		8.62	0.004234	1.23	34.56	52.21	0.48
Tot	632.447*	Q10	18.20	7.71	8.29		8.33	0.003656	0.85	21.44	50.86	0.42
Tot	641.573*	Q500	53.53	7.73	8.68		8.77	0.003987	1.32	40.55	52.79	0.48

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	641.573*	Q100	42.60	7.73	8.59		8.66	0.003838	1.20	35.62	52.29	0.46
Tot	641.573*	Q10	18.20	7.73	8.33		8.36	0.003297	0.82	22.11	50.81	0.40
Tot	650.699	Q500	53.53	7.76	8.72		8.81	0.003692	1.29	41.53	52.85	0.46
Tot	650.699	Q100	42.60	7.76	8.63		8.69	0.003548	1.17	36.49	52.32	0.45
Tot	650.699	Q10	18.20	7.76	8.36		8.39	0.003051	0.80	22.64	50.82	0.38
Tot	659.602*	Q500	53.53	7.75	8.76		8.84	0.003045	1.22	43.77	52.15	0.43
Tot	659.602*	Q100	42.60	7.75	8.66		8.72	0.002873	1.10	38.68	51.65	0.41
Tot	659.602*	Q10	18.20	7.75	8.39		8.41	0.002283	0.74	24.60	50.32	0.34
Tot	668.506*	Q500	53.53	7.73	8.79		8.86	0.002572	1.17	45.84	51.50	0.40
Tot	668.506*	Q100	42.60	7.73	8.69		8.75	0.002391	1.05	40.70	51.04	0.37
Tot	668.506*	Q10	18.20	7.73	8.41		8.43	0.001795	0.69	26.36	49.92	0.30
Tot	677.410*	Q500	53.53	7.72	8.82		8.88	0.002207	1.12	47.82	50.92	0.37
Tot	677.410*	Q100	42.60	7.72	8.72		8.77	0.002031	1.00	42.61	50.58	0.35
Tot	677.410*	Q10	18.20	7.72	8.42		8.45	0.001455	0.65	28.02	49.60	0.28
Tot	686.314	Q500	53.53	7.71	8.84		8.90	0.001919	1.08	49.76	50.52	0.35
Tot	686.314	Q100	42.60	7.71	8.74		8.78	0.001749	0.96	44.48	50.22	0.32
Tot	686.314	Q10	18.20	7.71	8.44		8.46	0.001203	0.61	29.62	49.35	0.25
Tot	695.677*	Q500	53.53	7.75	8.86		8.92	0.002110	1.11	48.25	50.37	0.36
Tot	695.677*	Q100	42.60	7.75	8.75		8.80	0.001953	0.99	42.92	50.02	0.34
Tot	695.677*	Q10	18.20	7.75	8.45		8.47	0.001446	0.65	27.94	49.03	0.28
Tot	705.041*	Q500	53.53	7.79	8.88		8.94	0.002286	1.14	47.02	50.22	0.38
Tot	705.041*	Q100	42.60	7.79	8.77		8.82	0.002144	1.02	41.64	49.82	0.36
Tot	705.041*	Q10	18.20	7.79	8.46		8.49	0.001695	0.69	26.55	48.68	0.30
Tot	714.405*	Q500	53.53	7.83	8.90		8.97	0.002441	1.16	46.04	50.14	0.39
Tot	714.405*	Q100	42.60	7.83	8.79		8.84	0.002312	1.05	40.63	49.63	0.37
Tot	714.405*	Q10	18.20	7.83	8.48		8.50	0.001899	0.71	25.47	47.83	0.31
Tot	723.769*	Q500	53.53	7.88	8.92		8.99	0.002566	1.18	45.35	50.18	0.40
Tot	723.769*	Q100	42.60	7.88	8.81		8.87	0.002444	1.07	39.89	49.45	0.38
Tot	723.769*	Q10	18.20	7.88	8.50		8.52	0.002050	0.74	24.74	47.11	0.32
Tot	733.133*	Q500	53.53	7.92	8.94		9.01	0.002644	1.19	44.98	50.26	0.40
Tot	733.133*	Q100	42.60	7.92	8.83		8.89	0.002520	1.08	39.45	49.24	0.39
Tot	733.133*	Q10	18.20	7.92	8.51		8.54	0.002161	0.75	24.26	46.68	0.33
Tot	742.497	Q500	53.53	7.96	8.97		9.04	0.002679	1.19	44.90	50.53	0.40
Tot	742.497	Q100	42.60	7.96	8.85		8.91	0.002569	1.08	39.29	49.43	0.39
Tot	742.497	Q10	18.20	7.96	8.53		8.56	0.002233	0.76	23.95	46.32	0.34
Tot	750.589*	Q500	53.53	7.97	8.98		9.07	0.004138	1.37	39.03	49.41	0.49
Tot	750.589*	Q100	42.60	7.97	8.87		8.95	0.004179	1.27	33.58	48.14	0.48
Tot	750.589*	Q10	18.20	7.97	8.55		8.59	0.004734	0.97	18.83	44.61	0.48
Tot	758.681*	Q500	53.53	7.98	9.00		9.12	0.005515	1.51	35.55	48.55	0.56
Tot	758.681*	Q100	42.60	7.98	8.89		8.99	0.005741	1.41	30.25	47.11	0.56
Tot	758.681*	Q10	18.20	7.98	8.58		8.64	0.006651	1.11	16.42	40.89	0.56
Tot	766.773*	Q500	53.53	7.99	9.04		9.17	0.005973	1.55	34.56	48.06	0.58
Tot	766.773*	Q100	42.60	7.99	8.93		9.04	0.005965	1.45	29.48	45.46	0.57
Tot	766.773*	Q10	18.20	7.99	8.63		8.69	0.005687	1.09	16.77	38.36	0.52
Tot	774.865	Q500	53.53	8.00	9.10		9.21	0.005014	1.48	36.24	47.46	0.54
Tot	774.865	Q100	42.60	8.00	8.99		9.09	0.005008	1.37	31.18	45.86	0.53
Tot	774.865	Q10	18.20	8.00	8.68		8.73	0.004428	1.00	18.15	38.74	0.47
Tot	775.754*	Q500	53.53	8.00	9.10		9.22	0.005078	1.48	36.07	47.34	0.54
Tot	775.754*	Q100	42.60	8.00	9.00		9.09	0.005041	1.37	31.03	45.53	0.53
Tot	775.754*	Q10	18.20	8.00	8.69		8.74	0.004423	1.01	18.10	38.45	0.47
Tot	776.644*	Q500	53.53	8.00	9.11		9.22	0.005135	1.49	35.91	47.22	0.55
Tot	776.644*	Q100	42.60	8.00	9.00		9.10	0.005061	1.38	30.90	45.21	0.53
Tot	776.644*	Q10	18.20	8.00	8.69		8.74	0.004420	1.01	18.06	38.21	0.47
Tot	777.533*	Q500	53.53	8.00	9.11		9.23	0.005165	1.50	35.80	47.05	0.55
Tot	777.533*	Q100	42.60	8.00	9.00		9.10	0.005076	1.38	30.81	44.97	0.53
Tot	777.533*	Q10	18.20	8.00	8.70		8.75	0.004410	1.01	18.03	37.96	0.47
Tot	778.423*	Q500	53.53	8.00	9.12		9.23	0.005191	1.50	35.73	47.00	0.55
Tot	778.423*	Q100	42.60	8.00	9.01		9.11	0.005084	1.39	30.75	44.81	0.53
Tot	778.423*	Q10	18.20	8.00	8.70		8.75	0.004393	1.01	18.01	37.75	0.47
Tot	779.312*	Q500	53.53	8.00	9.12		9.24	0.005221	1.50	35.69	47.06	0.55
Tot	779.312*	Q100	42.60	8.00	9.01		9.11	0.005089	1.39	30.71	44.68	0.53
Tot	779.312*	Q10	18.20	8.00	8.70		8.75	0.004372	1.01	18.00	37.56	0.47

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	780.202	Q500	53.53	8.00	9.13		9.24	0.005264	1.50	35.67	47.30	0.55
Tot	780.202	Q100	42.60	8.00	9.02		9.11	0.005094	1.39	30.68	44.60	0.53
Tot	780.202	Q10	18.20	8.00	8.71		8.76	0.004355	1.01	17.99	37.40	0.47
Tot	781.155*	Q500	53.53	8.00	9.13		9.25	0.005847	1.55	34.51	47.11	0.58
Tot	781.155*	Q100	42.60	8.00	9.02		9.12	0.005755	1.44	29.53	44.43	0.56
Tot	781.155*	Q10	18.20	8.00	8.71		8.77	0.005318	1.08	16.90	37.14	0.51
Tot	782.108*	Q500	53.53	8.00	9.13		9.26	0.006496	1.60	33.39	46.95	0.61
Tot	782.108*	Q100	42.60	8.00	9.02		9.13	0.006505	1.50	28.43	44.28	0.60
Tot	782.108*	Q10	18.20	8.00	8.71		8.77	0.006548	1.15	15.84	36.95	0.56
Tot	783.061*	Q500	53.53	8.00	9.13		9.27	0.007199	1.66	32.34	46.82	0.64
Tot	783.061*	Q100	42.60	8.00	9.02		9.14	0.007348	1.56	27.38	44.18	0.63
Tot	783.061*	Q10	18.20	8.00	8.71		8.78	0.008086	1.23	14.83	36.73	0.62
Tot	784.014*	Q500	53.53	8.00	9.13		9.28	0.007938	1.71	31.36	46.66	0.66
Tot	784.014*	Q100	42.60	8.00	9.02		9.15	0.008292	1.61	26.40	44.16	0.67
Tot	784.014*	Q10	18.20	8.00	8.71		8.80	0.010007	1.31	13.88	36.52	0.68
Tot	784.968*	Q500	53.53	8.00	9.13		9.29	0.008679	1.76	30.49	46.50	0.69
Tot	784.968*	Q100	42.60	8.00	9.02		9.16	0.009319	1.67	25.52	44.30	0.70
Tot	784.968*	Q10	18.20	8.00	8.71		8.81	0.012386	1.40	13.01	36.44	0.75
Tot	785.921*	Q500	53.53	8.00	9.13		9.30	0.009376	1.80	29.72	46.22	0.72
Tot	785.921*	Q100	42.60	8.00	9.03		9.18	0.010363	1.72	24.79	44.58	0.74
Tot	785.921*	Q10	18.20	8.00	8.72		8.83	0.015189	1.49	12.25	36.53	0.82
Tot	786.874*	Q500	53.53	8.00	9.14		9.31	0.010041	1.84	29.05	45.95	0.74
Tot	786.874*	Q100	42.60	8.00	9.03		9.19	0.011204	1.76	24.22	44.62	0.76
Tot	786.874*	Q10	18.20	8.00	8.73	8.70	8.85	0.018100	1.56	11.64	36.66	0.89
Tot	787.827*	Q500	53.53	8.00	9.15	9.03	9.32	0.010599	1.88	28.52	45.69	0.76
Tot	787.827*	Q100	42.60	8.00	9.04	8.95	9.20	0.011868	1.79	23.78	44.50	0.78
Tot	787.827*	Q10	18.20	8.00	8.70	8.73	8.87	0.031534	1.86	9.81	36.21	1.14
Tot	788.781	Q500	53.53	8.00	8.91	9.05	9.38	0.047301	3.04	17.63	42.17	1.50
Tot	788.781	Q100	42.60	8.00	8.86	8.97	9.26	0.047018	2.79	15.24	41.09	1.46
Tot	788.781	Q10	18.20	8.00	8.69	8.75	8.91	0.047055	2.08	8.74	36.70	1.36
Tot	789.675*	Q500	53.53	8.00	8.96	9.09	9.43	0.046428	3.03	17.68	41.84	1.49
Tot	789.675*	Q100	42.60	8.00	8.90	9.01	9.30	0.046232	2.79	15.27	40.74	1.45
Tot	789.675*	Q10	18.20	8.00	8.73	8.79	8.96	0.047055	2.09	8.72	36.44	1.36
Tot	790.569*	Q500	53.53	8.00	9.01	9.14	9.47	0.045373	3.02	17.73	41.43	1.47
Tot	790.569*	Q100	42.60	8.00	8.95	9.06	9.34	0.045778	2.79	15.27	40.39	1.45
Tot	790.569*	Q10	18.20	8.00	8.77	8.83	9.00	0.048095	2.11	8.63	36.12	1.38
Tot	791.463*	Q500	53.53	8.00	9.05	9.18	9.51	0.044285	3.01	17.80	41.04	1.46
Tot	791.463*	Q100	42.60	8.00	8.99	9.10	9.39	0.045074	2.79	15.28	40.00	1.44
Tot	791.463*	Q10	18.20	8.00	8.82	8.87	9.04	0.046638	2.09	8.71	36.06	1.36
Tot	792.357*	Q500	53.53	8.00	9.10	9.22	9.55	0.042922	2.99	17.91	40.69	1.44
Tot	792.357*	Q100	42.60	8.00	9.03	9.14	9.43	0.044379	2.78	15.30	39.62	1.43
Tot	792.357*	Q10	18.20	8.00	8.86	8.92	9.08	0.045339	2.07	8.79	36.08	1.34
Tot	793.252*	Q500	53.53	8.00	9.14	9.26	9.59	0.041133	2.97	18.02	39.92	1.41
Tot	793.252*	Q100	42.60	8.00	9.08	9.18	9.46	0.042255	2.75	15.50	39.42	1.40
Tot	793.252*	Q10	18.20	8.00	8.91	8.96	9.12	0.042443	2.04	8.93	35.72	1.30
Tot	794.146*	Q500	53.53	8.00	9.19	9.30	9.63	0.038925	2.94	18.18	39.10	1.38
Tot	794.146*	Q100	42.60	8.00	9.13	9.22	9.50	0.039761	2.72	15.68	38.66	1.36
Tot	794.146*	Q10	18.20	8.00	8.95	8.99	9.16	0.040792	2.02	9.02	35.43	1.28
Tot	795.040*	Q500	53.53	8.00	9.25	9.34	9.67	0.034980	2.87	18.63	38.29	1.31
Tot	795.040*	Q100	42.60	8.00	9.17	9.26	9.54	0.037078	2.68	15.88	37.83	1.32
Tot	795.040*	Q10	18.20	8.00	8.99	9.03	9.19	0.038544	1.98	9.18	35.49	1.24
Tot	795.934*	Q500	53.53	8.00	9.31	9.38	9.70	0.030508	2.78	19.26	37.47	1.24
Tot	795.934*	Q100	42.60	8.00	9.23	9.30	9.57	0.031882	2.58	16.49	37.02	1.24
Tot	795.934*	Q10	18.20	8.00	9.04	9.07	9.23	0.034688	1.91	9.52	35.82	1.18
Tot	796.829	Q500	53.53	8.00	9.40	9.42	9.73	0.021749	2.52	21.20	36.82	1.06
Tot	796.829	Q100	42.60	8.00	9.34	9.34	9.60	0.020206	2.26	18.82	36.44	1.01
Tot	796.829	Q10	18.20	8.00	9.10	9.10	9.26	0.025205	1.75	10.41	35.09	1.03
Tot	800		Bridge									
Tot	822.573	Q500	53.53	9.64	11.19	10.53	11.22	0.000902	0.74	71.91	73.03	0.24
Tot	822.573	Q100	42.60	9.64	11.01	10.47	11.04	0.001068	0.72	59.22	71.40	0.25
Tot	822.573	Q10	18.20	9.64	10.55	10.30	10.58	0.002024	0.66	27.69	61.83	0.31
Tot	823.544*	Q500	53.53	9.67	11.19	10.56	11.22	0.000980	0.76	70.22	73.24	0.25

HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	823.544*	Q100	42.60	9.67	11.01	10.50	11.04	0.001183	0.74	57.50	71.59	0.26
Tot	823.544*	Q10	18.20	9.67	10.55	10.33	10.58	0.002538	0.70	25.86	61.75	0.35
Tot	824.515*	Q500	53.53	9.71	11.19	10.60	11.22	0.001063	0.78	68.67	73.52	0.26
Tot	824.515*	Q100	42.60	9.71	11.01	10.53	11.04	0.001306	0.76	55.89	71.89	0.28
Tot	824.515*	Q10	18.20	9.71	10.55	10.36	10.58	0.003194	0.75	24.12	61.71	0.39
Tot	825.486*	Q500	53.53	9.74	11.19	10.62	11.22	0.001148	0.80	67.22	73.84	0.27
Tot	825.486*	Q100	42.60	9.74	11.01	10.55	11.04	0.001437	0.78	54.40	72.20	0.29
Tot	825.486*	Q10	18.20	9.74	10.55	10.39	10.59	0.004040	0.81	22.48	61.69	0.43
Tot	826.457*	Q500	53.53	9.77	11.19	10.65	11.22	0.001236	0.81	65.90	74.23	0.27
Tot	826.457*	Q100	42.60	9.77	11.01	10.59	11.04	0.001576	0.80	53.01	72.56	0.30
Tot	826.457*	Q10	18.20	9.77	10.56	10.42	10.59	0.005549	0.87	20.97	65.81	0.49
Tot	827.428*	Q500	53.53	9.80	11.19	10.67	11.22	0.001324	0.83	64.73	74.68	0.28
Tot	827.428*	Q100	42.60	9.80	11.01	10.61	11.05	0.001717	0.82	51.77	72.97	0.31
Tot	827.428*	Q10	18.20	9.80	10.56	10.44	10.60	0.007105	0.92	19.69	67.73	0.55
Tot	828.399*	Q500	53.53	9.84	11.19	10.69	11.22	0.001410	0.84	63.71	75.22	0.29
Tot	828.399*	Q100	42.60	9.84	11.01	10.63	11.05	0.001860	0.84	50.68	73.44	0.32
Tot	828.399*	Q10	18.20	9.84	10.56	10.46	10.61	0.008541	0.98	18.62	67.59	0.59
Tot	829.370*	Q500	53.53	9.87	11.19	10.71	11.23	0.001494	0.85	62.83	75.84	0.30
Tot	829.370*	Q100	42.60	9.87	11.01	10.65	11.05	0.002003	0.86	49.71	74.00	0.33
Tot	829.370*	Q10	18.20	9.87	10.57	10.48	10.62	0.009943	1.02	17.77	67.39	0.64
Tot	830.341*	Q500	53.53	9.90	11.19	10.72	11.23	0.001572	0.86	62.12	76.56	0.31
Tot	830.341*	Q100	42.60	9.90	11.01	10.67	11.05	0.002142	0.87	48.89	74.64	0.34
Tot	830.341*	Q10	18.20	9.90	10.57	10.51	10.63	0.011317	1.06	17.16	68.07	0.67
Tot	831.312*	Q500	53.53	9.93	11.19	10.73	11.23	0.001647	0.87	61.60	77.58	0.31
Tot	831.312*	Q100	42.60	9.93	11.02	10.68	11.06	0.002267	0.88	48.25	75.38	0.35
Tot	831.312*	Q10	18.20	9.93	10.58	10.53	10.64	0.012448	1.08	16.84	69.69	0.70
Tot	832.283*	Q500	53.53	9.97	11.19	10.75	11.23	0.001694	0.87	61.32	78.67	0.31
Tot	832.283*	Q100	42.60	9.97	11.02	10.69	11.06	0.002375	0.89	47.82	76.25	0.36
Tot	832.283*	Q10	18.20	9.97	10.60	10.55	10.66	0.012904	1.09	16.77	70.83	0.71
Tot	833.255	Q500	53.53	10.00	11.19	10.76	11.23	0.001714	0.88	61.21	79.51	0.32
Tot	833.255	Q100	42.60	10.00	11.02	10.71	11.06	0.002464	0.90	47.58	77.30	0.36
Tot	833.255	Q10	18.20	10.00	10.61	10.56	10.67	0.012982	1.08	16.88	72.27	0.71
Tot	834.204*	Q500	53.53	10.00	11.20	10.76	11.23	0.001696	0.87	61.67	80.16	0.31
Tot	834.204*	Q100	42.60	10.00	11.02	10.71	11.06	0.002419	0.89	48.00	77.93	0.36
Tot	834.204*	Q10	18.20	10.00	10.63	10.56	10.68	0.010117	1.00	18.27	73.05	0.64
Tot	835.153*	Q500	53.53	10.00	11.20	10.76	11.24	0.001679	0.86	62.14	80.81	0.31
Tot	835.153*	Q100	42.60	10.00	11.03	10.71	11.07	0.002376	0.88	48.41	78.55	0.36
Tot	835.153*	Q10	18.20	10.00	10.64	10.57	10.69	0.008661	0.95	19.21	73.76	0.59
Tot	836.102*	Q500	53.53	10.00	11.20	10.76	11.24	0.001663	0.86	62.60	81.44	0.31
Tot	836.102*	Q100	42.60	10.00	11.03	10.71	11.07	0.002333	0.87	48.82	79.16	0.35
Tot	836.102*	Q10	18.20	10.00	10.65	10.57	10.70	0.007659	0.91	20.01	74.43	0.56
Tot	837.051*	Q500	53.53	10.00	11.20	10.76	11.24	0.001646	0.85	63.07	82.04	0.31
Tot	837.051*	Q100	42.60	10.00	11.03	10.71	11.07	0.002289	0.87	49.25	79.77	0.35
Tot	837.051*	Q10	18.20	10.00	10.66	10.57	10.70	0.006907	0.88	20.71	75.09	0.53
Tot	838.001*	Q500	53.53	10.00	11.20	10.76	11.24	0.001622	0.84	63.53	82.65	0.31
Tot	838.001*	Q100	42.60	10.00	11.03	10.71	11.07	0.002247	0.86	49.67	80.36	0.35
Tot	838.001*	Q10	18.20	10.00	10.67	10.57	10.71	0.006318	0.85	21.34	75.73	0.51
Tot	838.950*	Q500	53.53	10.00	11.21	10.76	11.24	0.001599	0.84	63.99	83.23	0.30
Tot	838.950*	Q100	42.60	10.00	11.04	10.71	11.07	0.002207	0.85	50.08	80.95	0.35
Tot	838.950*	Q10	18.20	10.00	10.68	10.57	10.71	0.005846	0.83	21.92	76.36	0.49
Tot	839.899*	Q500	53.53	10.00	11.21	10.76	11.24	0.001574	0.83	64.46	83.79	0.30
Tot	839.899*	Q100	42.60	10.00	11.04	10.71	11.08	0.002166	0.84	50.51	81.53	0.34
Tot	839.899*	Q10	18.20	10.00	10.69	10.57	10.72	0.005436	0.81	22.47	76.98	0.48
Tot	840.848*	Q500	53.53	10.00	11.21	10.76	11.25	0.001550	0.82	64.93	84.39	0.30
Tot	840.848*	Q100	42.60	10.00	11.04	10.71	11.08	0.002126	0.84	50.94	82.11	0.34
Tot	840.848*	Q10	18.20	10.00	10.69	10.57	10.72	0.005091	0.79	22.99	77.59	0.46
Tot	841.797*	Q500	53.53	10.00	11.21	10.76	11.25	0.001527	0.82	65.40	84.96	0.30
Tot	841.797*	Q100	42.60	10.00	11.05	10.71	11.08	0.002086	0.83	51.36	82.66	0.34
Tot	841.797*	Q10	18.20	10.00	10.70	10.57	10.73	0.004791	0.77	23.49	78.19	0.45
Tot	842.747	Q500	53.53	10.00	11.21	10.76	11.25	0.001504	0.81	65.88	85.53	0.30
Tot	842.747	Q100	42.60	10.00	11.05	10.71	11.08	0.002047	0.82	51.79	83.22	0.33
Tot	842.747	Q10	18.20	10.00	10.70	10.57	10.73	0.004528	0.76	23.96	78.80	0.44

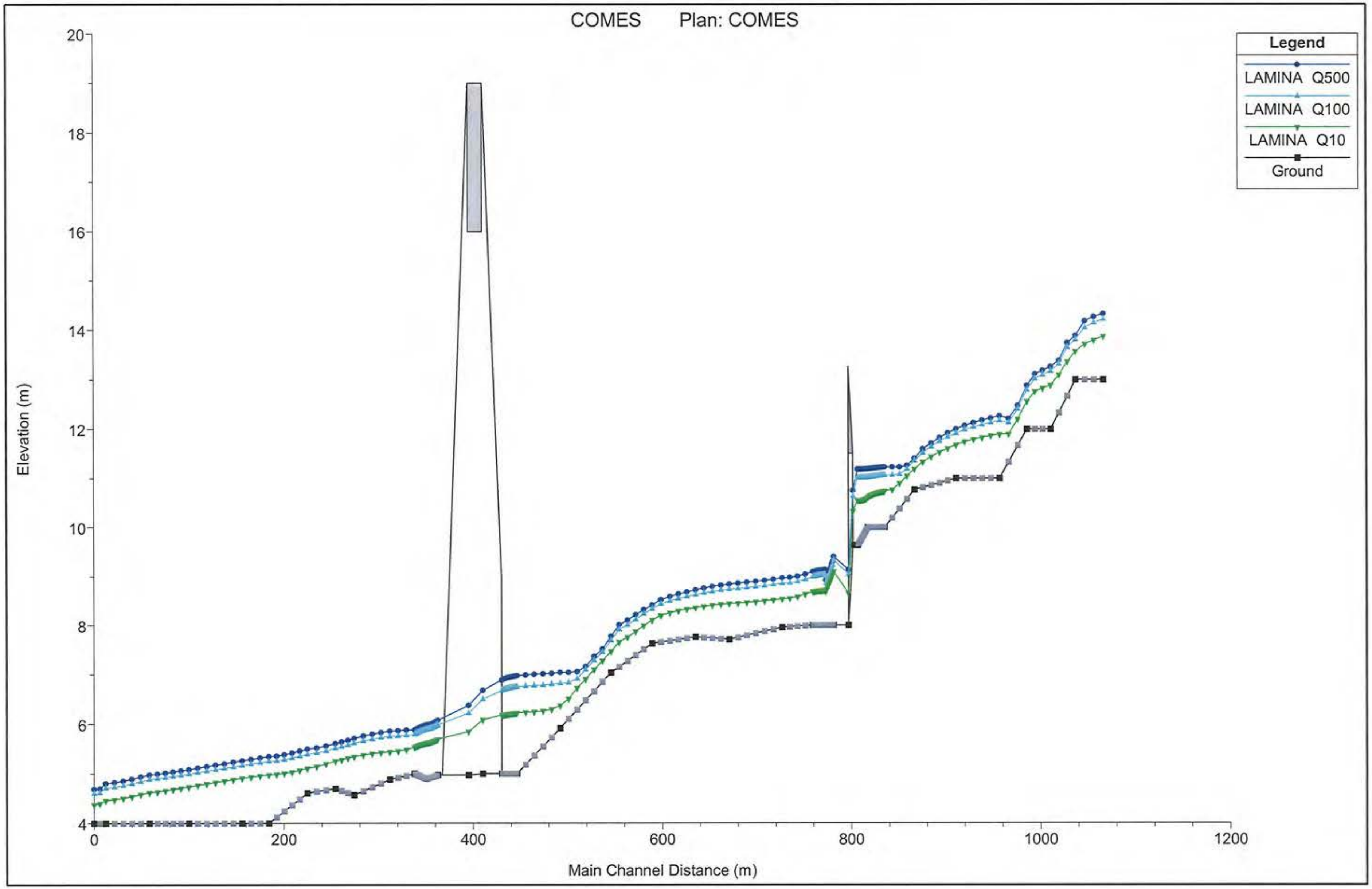
HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	843.672*	Q500	53.53	10.00	11.22	10.76	11.25	0.001499	0.81	65.95	85.59	0.30
Tot	843.672*	Q100	42.60	10.00	11.05	10.71	11.08	0.002039	0.82	51.89	83.42	0.33
Tot	843.672*	Q10	18.20	10.00	10.71	10.58	10.74	0.004422	0.75	24.18	79.18	0.43
Tot	844.597*	Q500	53.53	10.00	11.22	10.76	11.25	0.001491	0.81	66.12	85.79	0.29
Tot	844.597*	Q100	42.60	10.00	11.05	10.71	11.09	0.002027	0.82	52.06	83.74	0.33
Tot	844.597*	Q10	18.20	10.00	10.71	10.58	10.74	0.004313	0.75	24.42	79.65	0.43
Tot	845.523*	Q500	53.53	10.00	11.22	10.77	11.25	0.001479	0.81	66.36	86.09	0.29
Tot	845.523*	Q100	42.60	10.00	11.05	10.72	11.09	0.002009	0.81	52.29	84.14	0.33
Tot	845.523*	Q10	18.20	10.00	10.72	10.58	10.75	0.004195	0.74	24.68	80.17	0.42
Tot	846.448*	Q500	53.53	10.00	11.22	10.77	11.25	0.001465	0.80	66.67	86.48	0.29
Tot	846.448*	Q100	42.60	10.00	11.06	10.72	11.09	0.001987	0.81	52.58	84.61	0.33
Tot	846.448*	Q10	18.20	10.00	10.72	10.58	10.75	0.004071	0.73	24.98	80.75	0.42
Tot	847.374*	Q500	53.53	10.00	11.22	10.77	11.26	0.001449	0.80	67.02	86.92	0.29
Tot	847.374*	Q100	42.60	10.00	11.06	10.72	11.09	0.001964	0.81	52.89	85.13	0.33
Tot	847.374*	Q10	18.20	10.00	10.73	10.58	10.75	0.003953	0.72	25.27	81.34	0.41
Tot	848.299*	Q500	53.53	10.00	11.22	10.77	11.26	0.001432	0.79	67.41	87.42	0.29
Tot	848.299*	Q100	42.60	10.00	11.06	10.72	11.09	0.001938	0.80	53.24	85.70	0.32
Tot	848.299*	Q10	18.20	10.00	10.73	10.59	10.76	0.003829	0.71	25.58	81.91	0.41
Tot	849.225*	Q500	53.53	10.00	11.23	10.77	11.26	0.001414	0.79	67.84	87.98	0.29
Tot	849.225*	Q100	42.60	10.00	11.06	10.72	11.10	0.001911	0.79	53.62	86.31	0.32
Tot	849.225*	Q10	18.20	10.00	10.73	10.59	10.76	0.003714	0.70	25.90	82.61	0.40
Tot	850.150*	Q500	53.53	10.00	11.23	10.77	11.26	0.001395	0.78	68.29	88.57	0.28
Tot	850.150*	Q100	42.60	10.00	11.07	10.72	11.10	0.001883	0.79	54.02	86.95	0.32
Tot	850.150*	Q10	18.20	10.00	10.74	10.59	10.76	0.003608	0.69	26.23	83.37	0.39
Tot	851.076	Q500	53.53	10.00	11.23	10.77	11.26	0.001375	0.78	68.78	89.19	0.28
Tot	851.076	Q100	42.60	10.00	11.07	10.72	11.10	0.001852	0.78	54.45	87.62	0.32
Tot	851.076	Q10	18.20	10.00	10.74	10.59	10.77	0.003497	0.69	26.56	84.07	0.39
Tot	858.994*	Q500	53.53	10.19	11.23		11.28	0.003114	1.04	51.57	80.23	0.41
Tot	858.994*	Q100	42.60	10.19	11.07		11.13	0.004869	1.09	38.94	78.32	0.50
Tot	858.994*	Q10	18.20	10.19	10.76		10.83	0.016986	1.16	15.67	73.58	0.80
Tot	866.913*	Q500	53.53	10.39	11.23		11.34	0.007999	1.44	37.16	71.79	0.64
Tot	866.913*	Q100	42.60	10.39	11.08		11.21	0.014394	1.59	26.80	69.40	0.82
Tot	866.913*	Q10	18.20	10.39	10.90		10.98	0.019723	1.27	14.32	65.73	0.87
Tot	874.831*	Q500	53.53	10.58	11.26	11.25	11.46	0.019327	1.96	27.34	64.61	0.96
Tot	874.831*	Q100	42.60	10.58	11.19	11.19	11.37	0.022672	1.88	22.63	63.94	1.01
Tot	874.831*	Q10	18.20	10.58	11.05		11.14	0.018684	1.30	14.04	60.06	0.86
Tot	882.750	Q500	53.53	10.77	11.40	11.39	11.62	0.019867	2.07	25.88	57.33	0.98
Tot	882.750	Q100	42.60	10.77	11.36	11.33	11.53	0.017334	1.82	23.43	56.90	0.90
Tot	882.750	Q10	18.20	10.77	11.19		11.28	0.016864	1.30	14.01	55.22	0.82
Tot	891.559*	Q500	53.53	10.82	11.60		11.76	0.012768	1.80	29.69	58.10	0.80
Tot	891.559*	Q100	42.60	10.82	11.52		11.66	0.013808	1.70	25.13	57.24	0.82
Tot	891.559*	Q10	18.20	10.82	11.33		11.41	0.013487	1.24	14.69	52.72	0.75
Tot	900.369*	Q500	53.53	10.86	11.71		11.87	0.012158	1.79	29.88	56.94	0.79
Tot	900.369*	Q100	42.60	10.86	11.64		11.78	0.011649	1.64	26.03	55.02	0.76
Tot	900.369*	Q10	18.20	10.86	11.44		11.51	0.009894	1.16	15.70	49.30	0.66
Tot	909.178*	Q500	53.53	10.91	11.83		11.97	0.009516	1.68	31.86	55.52	0.71
Tot	909.178*	Q100	42.60	10.91	11.75		11.87	0.009169	1.53	27.77	53.94	0.68
Tot	909.178*	Q10	18.20	10.91	11.53		11.59	0.008404	1.11	16.42	48.66	0.61
Tot	917.988*	Q500	53.53	10.95	11.92		12.05	0.008161	1.60	33.55	56.10	0.66
Tot	917.988*	Q100	42.60	10.95	11.84		11.95	0.008019	1.46	29.11	54.69	0.64
Tot	917.988*	Q10	18.20	10.95	11.61		11.66	0.007883	1.08	16.90	49.69	0.59
Tot	926.798	Q500	53.53	11.00	12.00		12.12	0.007565	1.54	34.84	57.83	0.63
Tot	926.798	Q100	42.60	11.00	11.91		12.02	0.007577	1.42	30.08	56.56	0.62
Tot	926.798	Q10	18.20	11.00	11.68		11.73	0.007530	1.06	17.20	49.94	0.58
Tot	935.98*	Q500	53.53	11.00	12.07		12.18	0.006266	1.49	35.95	54.35	0.58
Tot	935.98*	Q100	42.60	11.00	11.99		12.08	0.006020	1.35	31.48	53.35	0.56
Tot	935.98*	Q10	18.20	11.00	11.74		11.79	0.005169	0.96	19.01	48.39	0.49
Tot	945.162*	Q500	53.53	11.00	12.13		12.24	0.005673	1.48	36.14	51.21	0.56
Tot	945.162*	Q100	42.60	11.00	12.04		12.13	0.005359	1.34	31.85	50.39	0.54
Tot	945.162*	Q10	18.20	11.00	11.79		11.83	0.004361	0.93	19.61	46.04	0.45
Tot	954.344*	Q500	53.53	11.00	12.18		12.29	0.005342	1.49	35.94	48.32	0.55
Tot	954.344*	Q100	42.60	11.00	12.09		12.18	0.005008	1.34	31.76	47.64	0.52
Tot	954.344*	Q10	18.20	11.00	11.83		11.87	0.003927	0.92	19.79	43.60	0.44

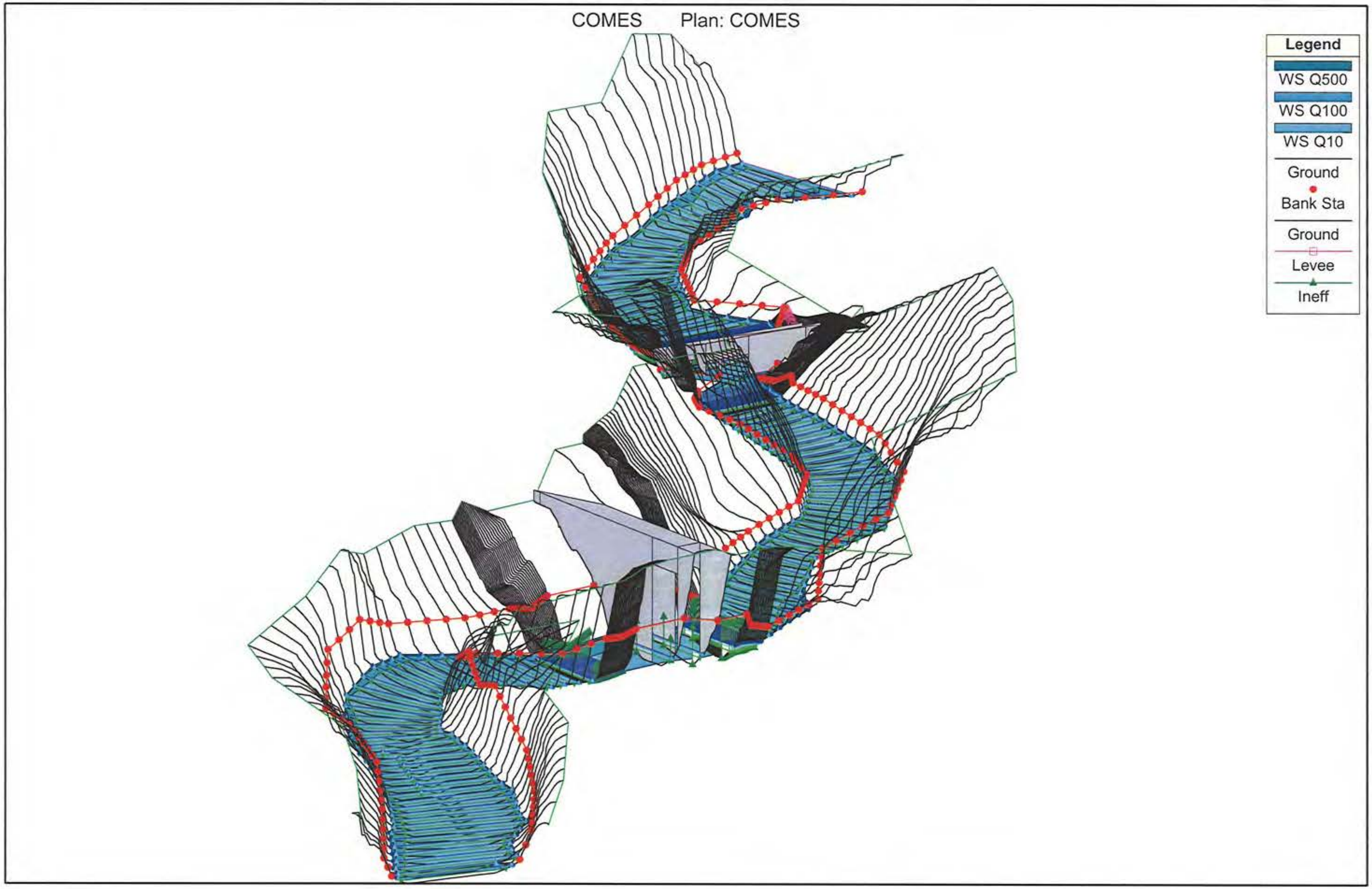
HEC-RAS Plan: COMES River: Comes Reach: Tot (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Tot	963.526*	Q500	53.53	11.00	12.22		12.34	0.005133	1.51	35.54	45.64	0.54
Tot	963.526*	Q100	42.60	11.00	12.13		12.23	0.004781	1.35	31.48	45.02	0.52
Tot	963.526*	Q10	18.20	11.00	11.86		11.91	0.003640	0.92	19.76	41.07	0.42
Tot	972.708	Q500	53.53	11.00	12.27	11.97	12.39	0.005006	1.53	34.99	43.09	0.54
Tot	972.708	Q100	42.60	11.00	12.17	11.88	12.27	0.004640	1.37	31.04	42.52	0.51
Tot	972.708	Q10	18.20	11.00	11.90	11.60	11.94	0.003424	0.93	19.59	38.45	0.42
Tot	982.392*	Q500	53.53	11.33	12.21	12.28	12.57	0.027954	2.66	20.11	39.36	1.19
Tot	982.392*	Q100	42.60	11.33	12.13	12.19	12.45	0.028264	2.48	17.15	37.56	1.17
Tot	982.392*	Q10	18.20	11.33	11.90	11.93	12.10	0.029360	1.98	9.19	29.12	1.12
Tot	992.077*	Q500	53.53	11.67	12.48	12.57	12.89	0.034807	2.84	18.88	39.68	1.31
Tot	992.077*	Q100	42.60	11.67	12.41	12.49	12.76	0.035299	2.64	16.16	38.31	1.30
Tot	992.077*	Q10	18.20	11.67	12.20	12.25	12.42	0.036151	2.05	8.86	31.14	1.23
Tot	1001.762	Q500	53.53	12.00	12.88	12.88	13.15	0.019522	2.31	23.20	43.08	1.00
Tot	1001.762	Q100	42.60	12.00	12.79	12.79	13.03	0.020741	2.18	19.56	41.47	1.01
Tot	1001.762	Q10	18.20	12.00	12.56	12.56	12.71	0.024829	1.71	10.65	37.22	1.02
Tot	1010.08*	Q500	53.53	12.00	13.11		13.26	0.008640	1.74	30.77	47.34	0.69
Tot	1010.08*	Q100	42.60	12.00	13.02		13.15	0.008759	1.61	26.52	46.50	0.68
Tot	1010.08*	Q10	18.20	12.00	12.76		12.83	0.008103	1.20	15.22	39.20	0.61
Tot	1018.40*	Q500	53.53	12.00	13.18		13.34	0.008724	1.73	31.00	48.50	0.69
Tot	1018.40*	Q100	42.60	12.00	13.09		13.22	0.008981	1.60	26.66	47.91	0.68
Tot	1018.40*	Q10	18.20	12.00	12.82		12.90	0.008607	1.24	14.67	37.34	0.63
Tot	1026.724	Q500	53.53	12.00	13.26	13.12	13.41	0.009030	1.73	30.98	49.52	0.70
Tot	1026.724	Q100	42.60	12.00	13.17	13.05	13.30	0.009348	1.60	26.67	49.23	0.69
Tot	1026.724	Q10	18.20	12.00	12.89	12.68	12.97	0.007754	1.27	14.29	32.21	0.61
Tot	1035.50*	Q500	53.53	12.33	13.38	13.46	13.74	0.038110	2.67	20.03	49.30	1.34
Tot	1035.50*	Q100	42.60	12.33	13.31	13.39	13.63	0.037223	2.51	17.00	45.28	1.30
Tot	1035.50*	Q10	18.20	12.33	13.09	13.13	13.31	0.030846	2.04	8.93	28.11	1.15
Tot	1044.28*	Q500	53.53	12.67	13.74	13.74	13.99	0.020028	2.22	24.16	48.61	1.00
Tot	1044.28*	Q100	42.60	12.67	13.65	13.65	13.88	0.020544	2.13	20.02	43.65	1.00
Tot	1044.28*	Q10	18.20	12.67	13.36	13.36	13.54	0.021727	1.87	9.75	26.97	0.99
Tot	1053.058	Q500	53.53	13.00	13.88	13.87	14.16	0.017882	2.36	22.71	38.20	0.98
Tot	1053.058	Q100	42.60	13.00	13.81	13.77	14.04	0.016361	2.13	19.98	36.58	0.92
Tot	1053.058	Q10	18.20	13.00	13.57		13.69	0.012822	1.52	12.01	30.55	0.77
Tot	1062.77*	Q500	53.53	13.00	14.18		14.28	0.006919	1.45	36.99	63.53	0.61
Tot	1062.77*	Q100	42.60	13.00	14.04		14.15	0.007117	1.46	29.24	50.75	0.61
Tot	1062.77*	Q10	18.20	13.00	13.71		13.79	0.007681	1.20	15.18	37.39	0.60
Tot	1072.49*	Q500	53.53	13.00	14.26		14.34	0.005088	1.25	42.76	72.43	0.52
Tot	1072.49*	Q100	42.60	13.00	14.14		14.22	0.006511	1.25	34.19	70.17	0.57
Tot	1072.49*	Q10	18.20	13.00	13.80		13.86	0.007234	1.12	16.30	42.64	0.58
Tot	1082.218	Q500	53.53	13.00	14.32	14.04	14.39	0.004384	1.15	46.66	80.50	0.48
Tot	1082.218	Q100	42.60	13.00	14.22	13.95	14.28	0.005256	1.11	38.22	78.86	0.51
Tot	1082.218	Q10	18.20	13.00	13.87	13.65	13.93	0.007340	1.07	17.06	48.22	0.57

4.2 ESQUEMA LONGITUDINAL


COMES Plan: COMES
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Elevation (m)
20
18
16
14
12
10
8
6
4
0
200
400
600
800
1000
1200
Main Channel Distance (m)

4.3 ESQUEMA EN PLANTA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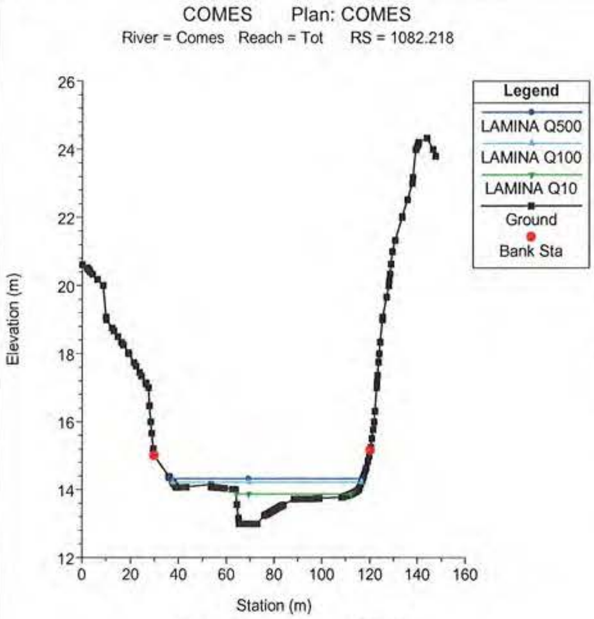
Legend
WS Q500
WS Q100
WS Q10
Ground
Bank Sta
Ground
Levee
Ineff

4.4 SECCIONS TRANSVERSALS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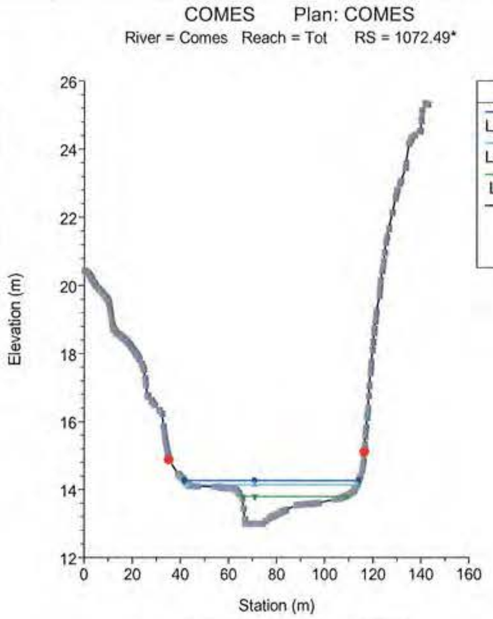
River = Comes Reach = Tot RS = 1082.218
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)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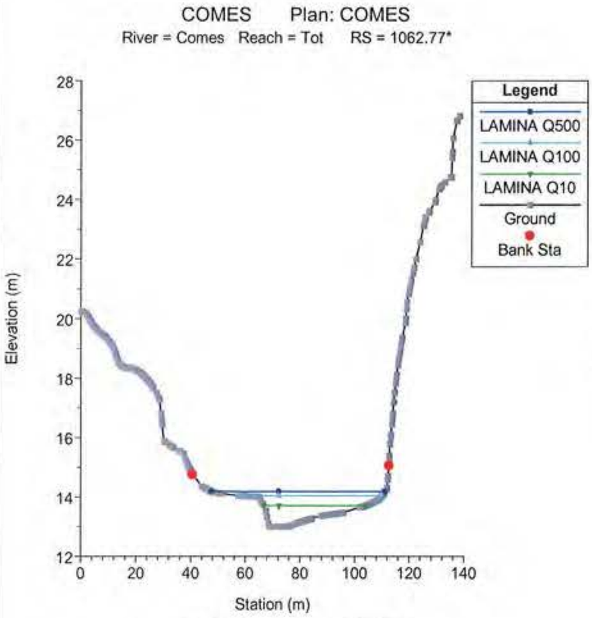
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)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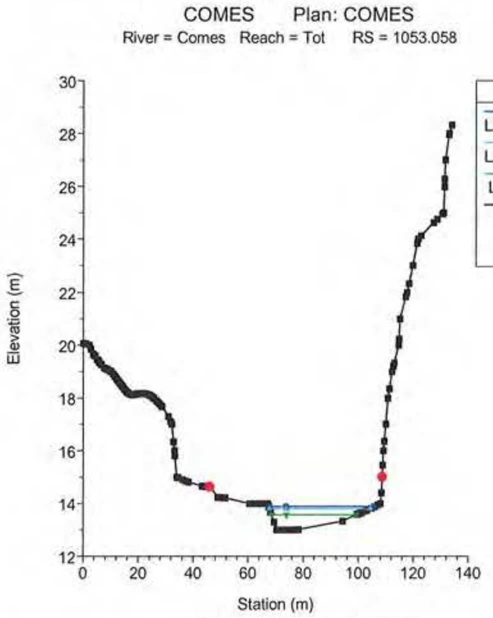
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)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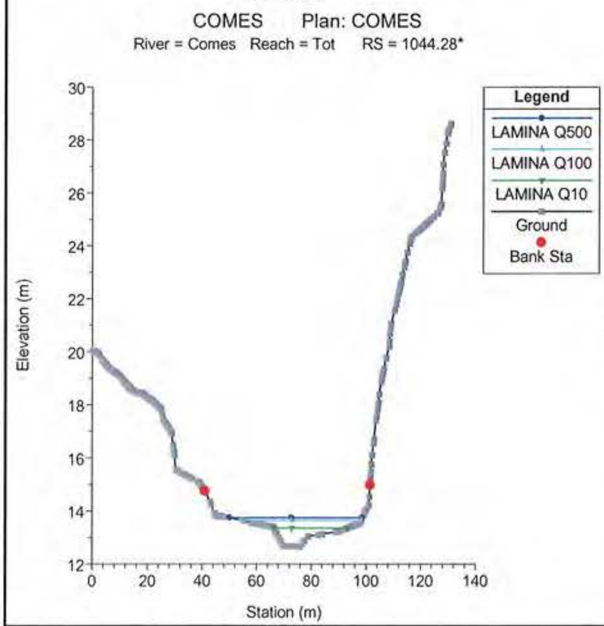
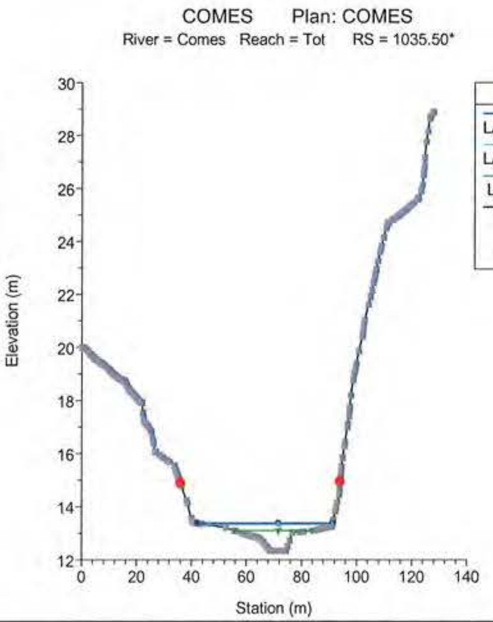
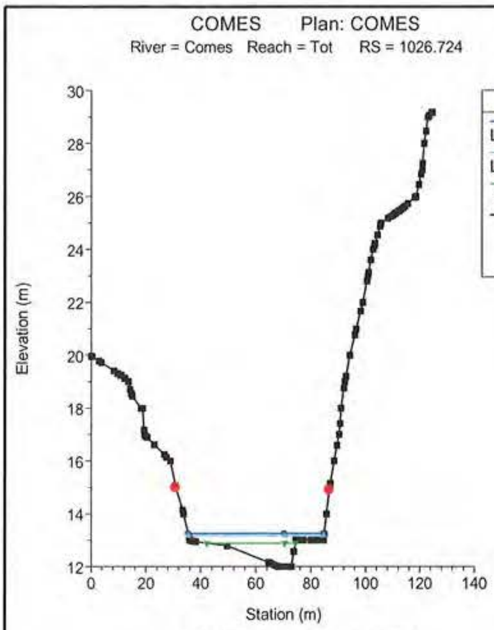
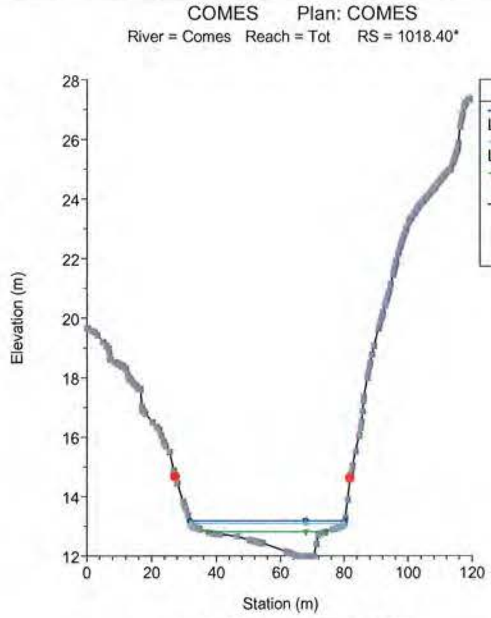
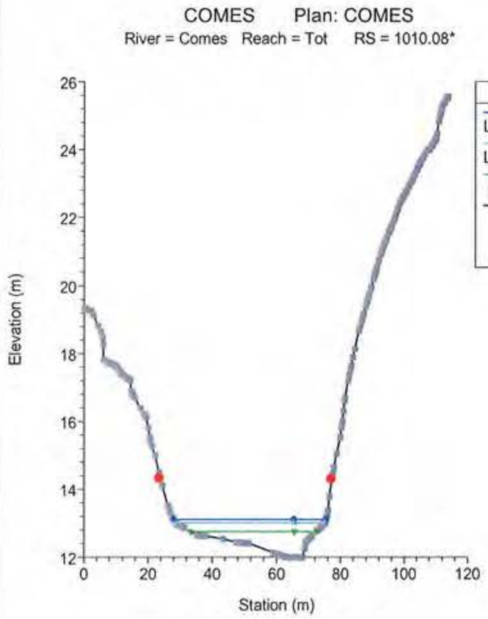
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

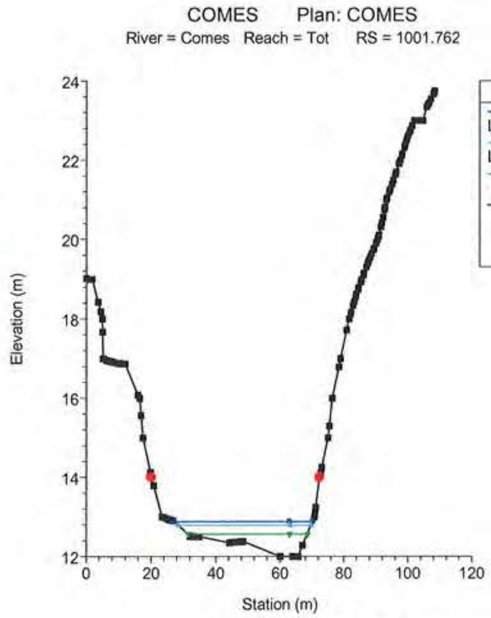

COMES Plan: COMES
River = Comes Reach = Tot RS = 1044.28*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

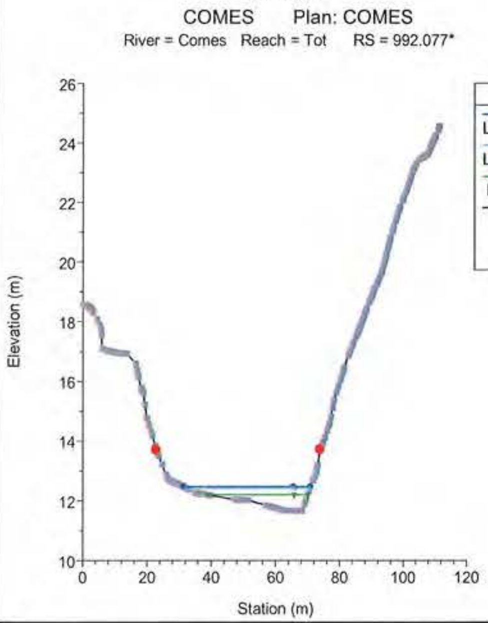

COMES Plan: COMES
River = Comes Reach = Tot RS = 1035.50*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

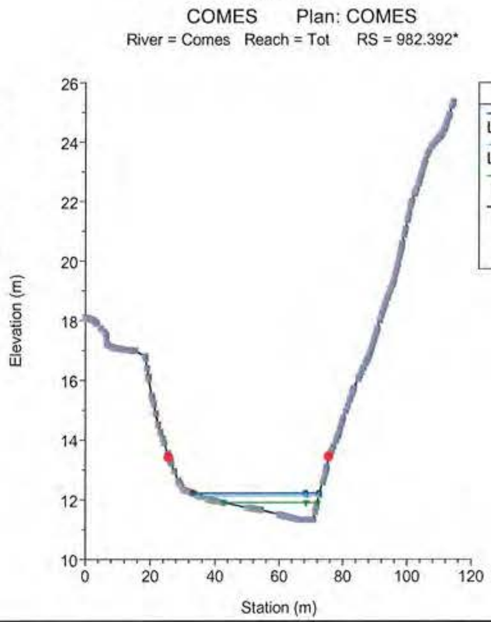

COMES Plan: COMES
River = Comes Reach = Tot RS = 1026.724
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

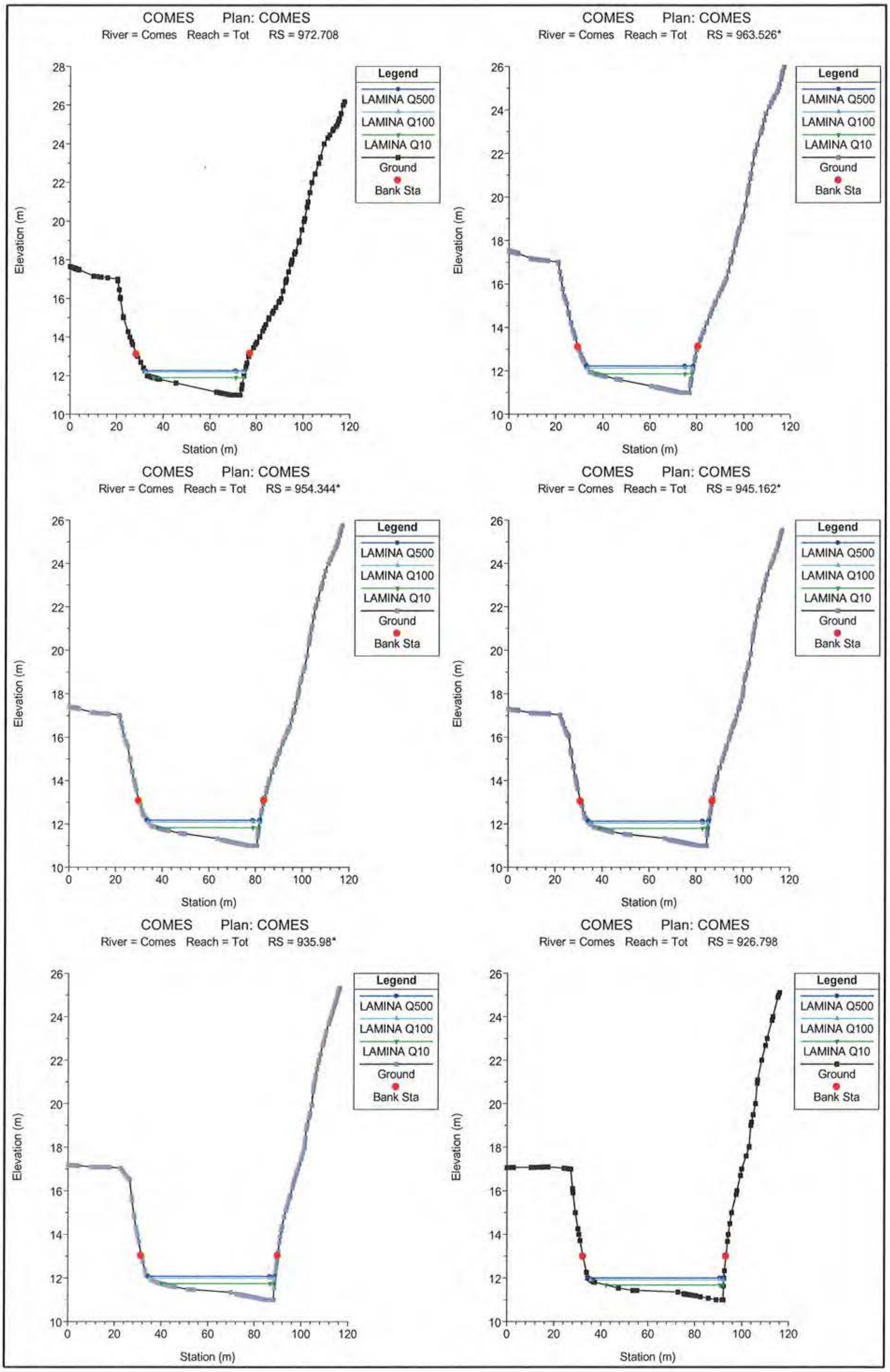

COMES Plan: COMES
River = Comes Reach = Tot RS = 1018.40*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 1010.08*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

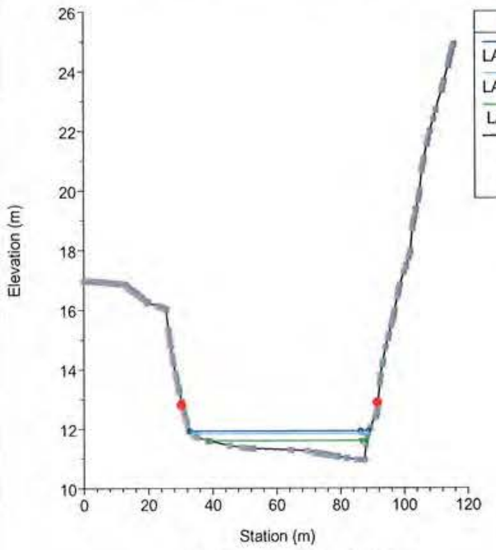

COMES Plan: COMES
River = Comes Reach = Tot RS = 1001.762
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 992.077*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

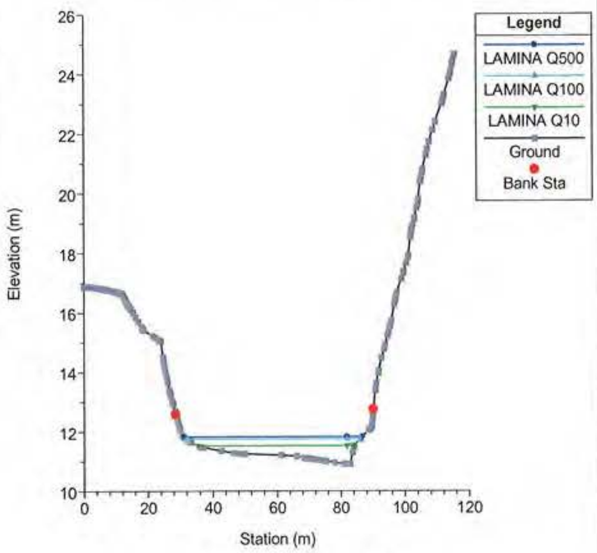

COMES Plan: COMES
River = Comes Reach = Tot RS = 982.392*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 972.708
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)
COMES Plan: COMES
River = Comes Reach = Tot RS = 963.526*
COMES Plan: COMES
River = Comes Reach = Tot RS = 954.344*
COMES Plan: COMES
River = Comes Reach = Tot RS = 945.162*
COMES Plan: COMES
River = Comes Reach = Tot RS = 935.98*
COMES Plan: COMES
River = Comes Reach = Tot RS = 926.798

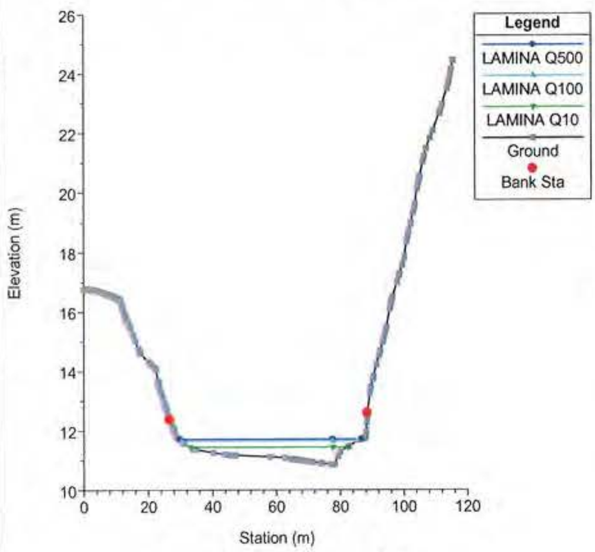
COMES Plan: COMES
River = Comes Reach = Tot RS = 917.988*



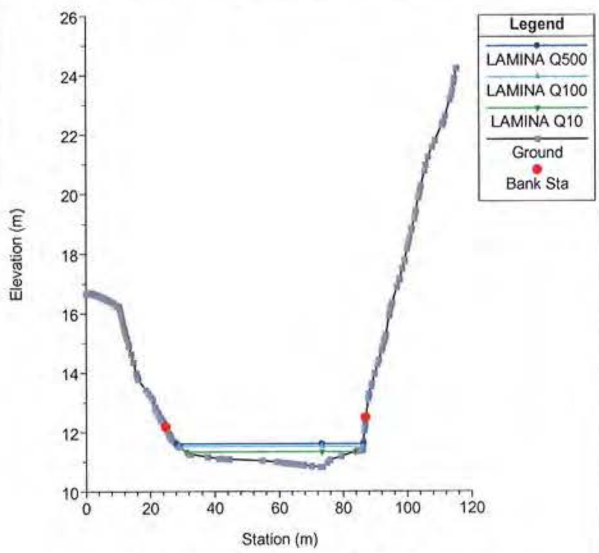
COMES Plan: COMES
River = Comes Reach = Tot RS = 909.178*



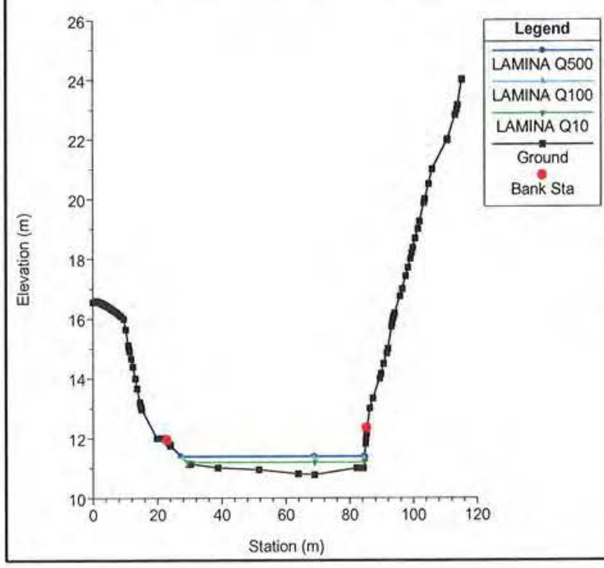
COMES Plan: COMES
River = Comes Reach = Tot RS = 900.369*



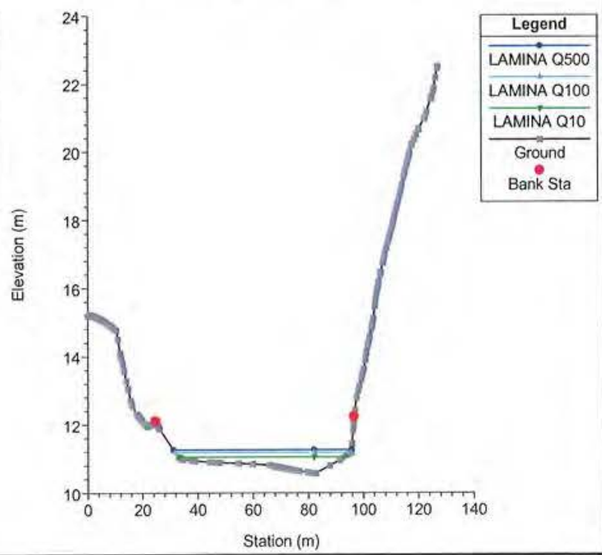
COMES Plan: COMES
River = Comes Reach = Tot RS = 891.559*

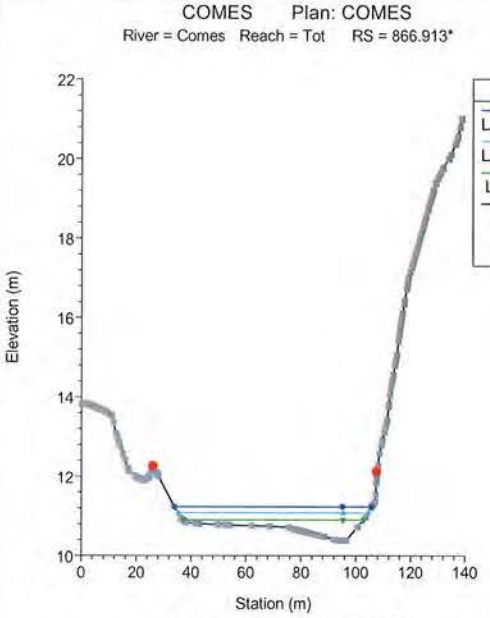


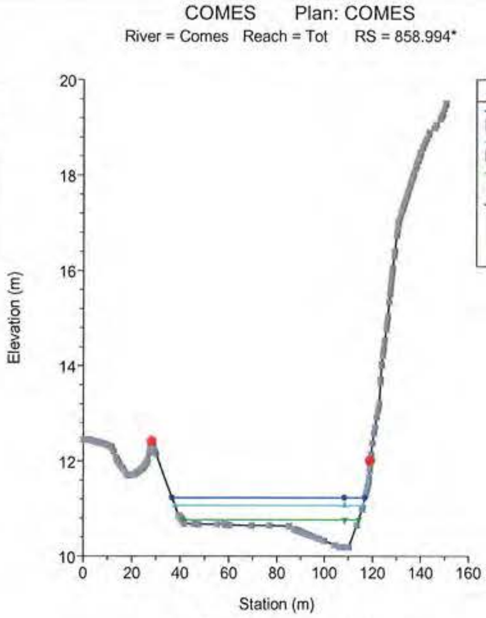
COMES Plan: COMES
River = Comes Reach = Tot RS = 882.750

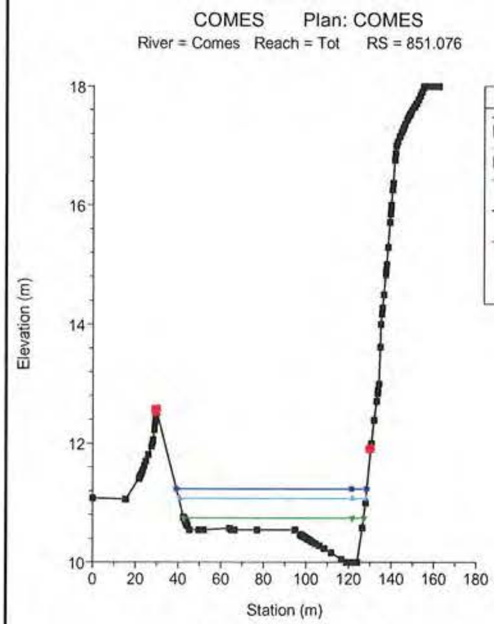


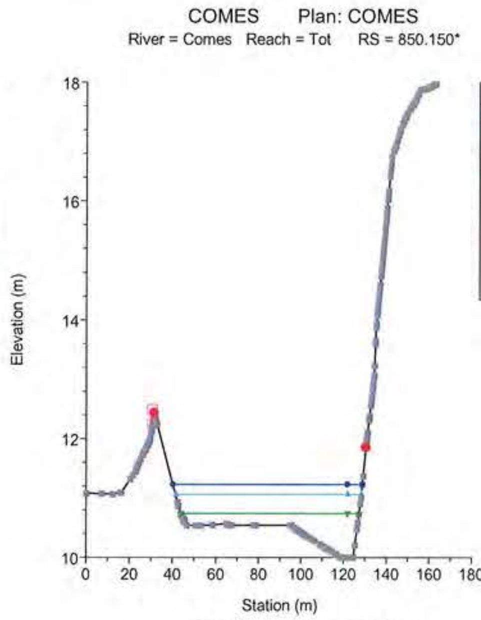
COMES Plan: COMES
River = Comes Reach = Tot RS = 874.831*

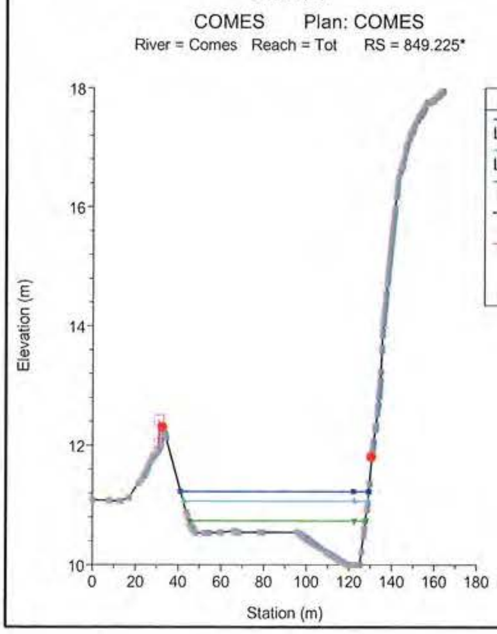


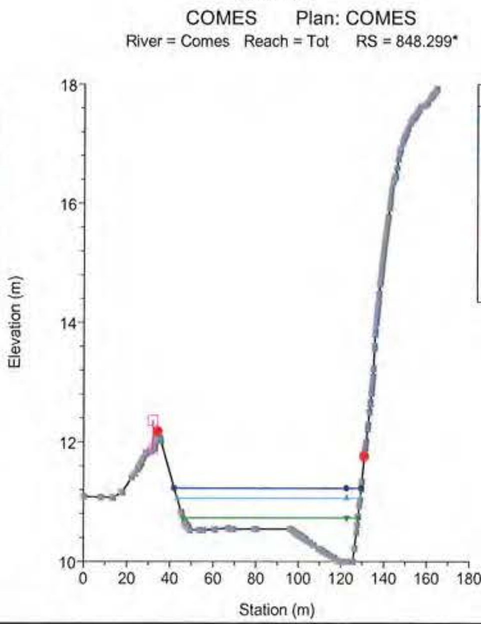

COMES Plan: COMES
River = Comes Reach = Tot RS = 866.913*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

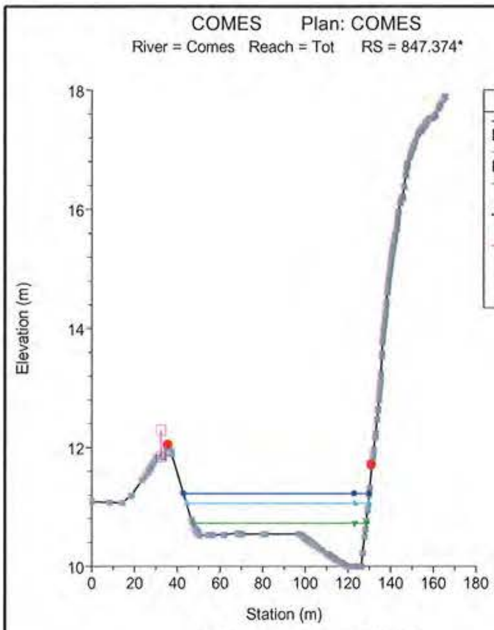

COMES Plan: COMES
River = Comes Reach = Tot RS = 858.994*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

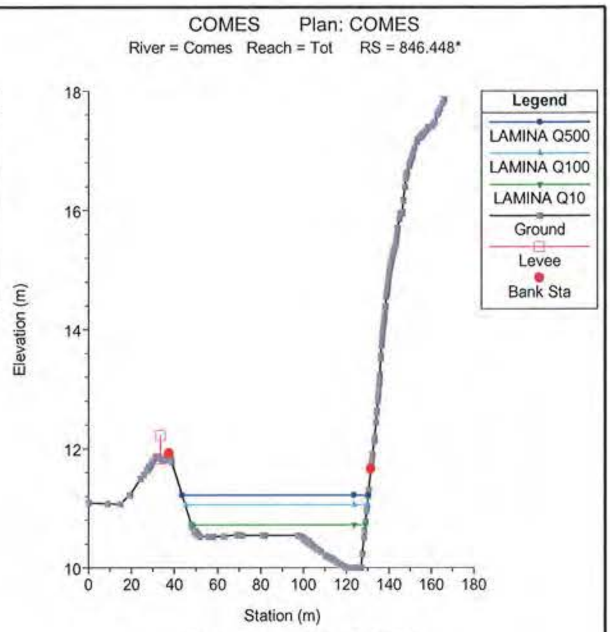

COMES Plan: COMES
River = Comes Reach = Tot RS = 851.076
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

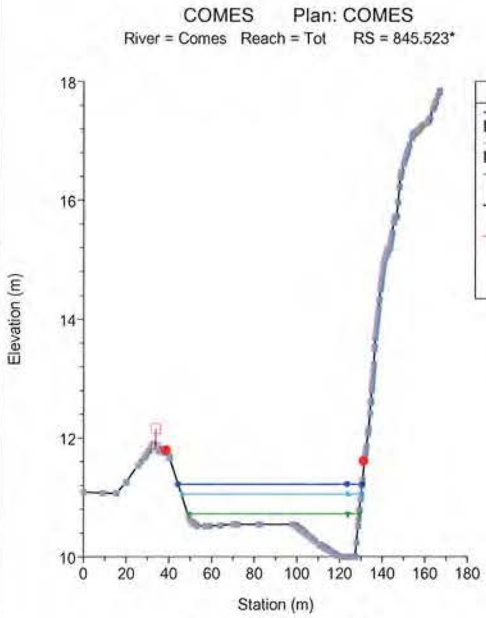

COMES Plan: COMES
River = Comes Reach = Tot RS = 850.150*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

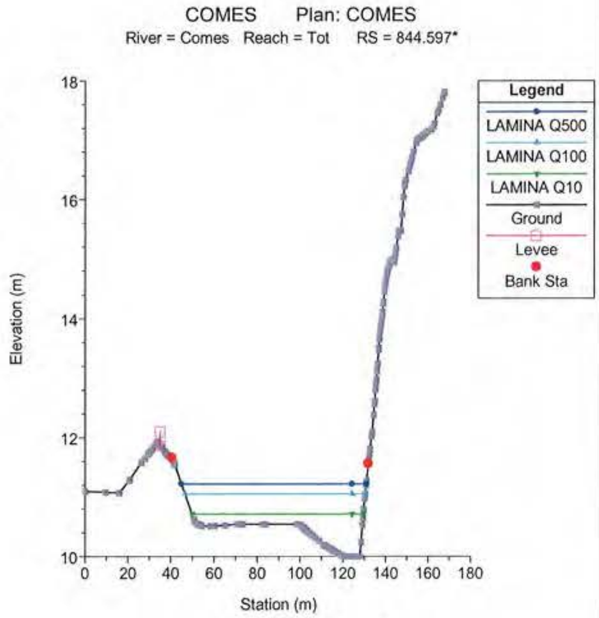

COMES Plan: COMES
River = Comes Reach = Tot RS = 849.225*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

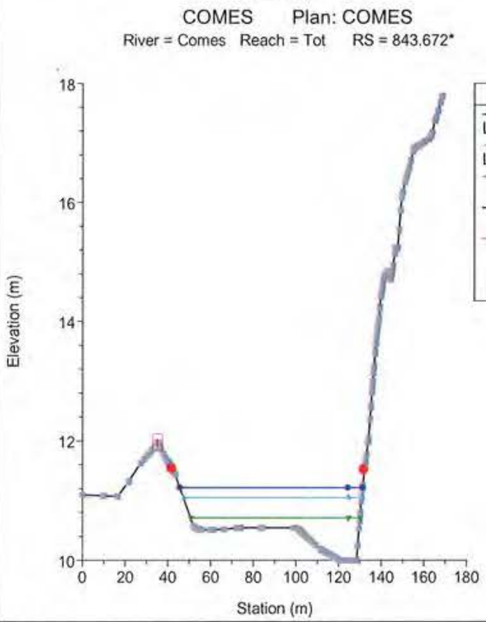

COMES Plan: COMES
River = Comes Reach = Tot RS = 848.299*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

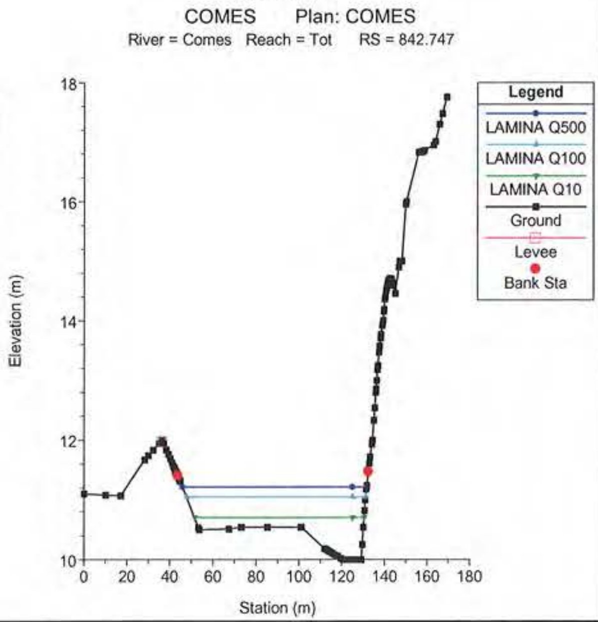

COMES Plan: COMES
River = Comes Reach = Tot RS = 847.374*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

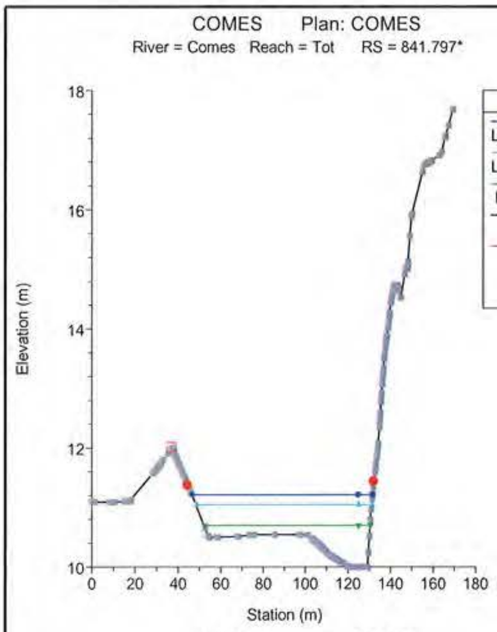

COMES Plan: COMES
River = Comes Reach = Tot RS = 846.448*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

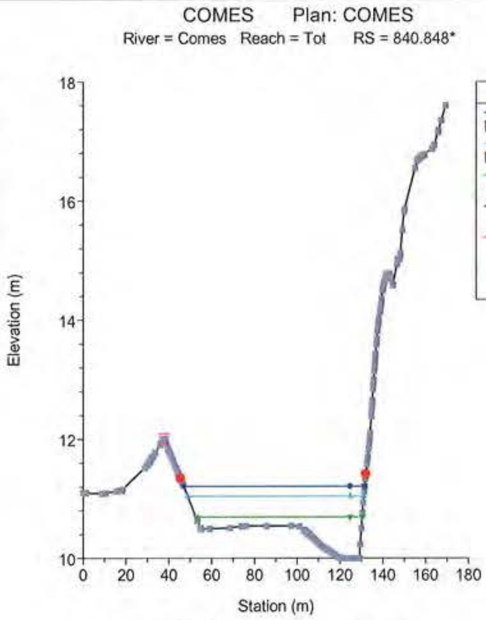

COMES Plan: COMES
River = Comes Reach = Tot RS = 845.523*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

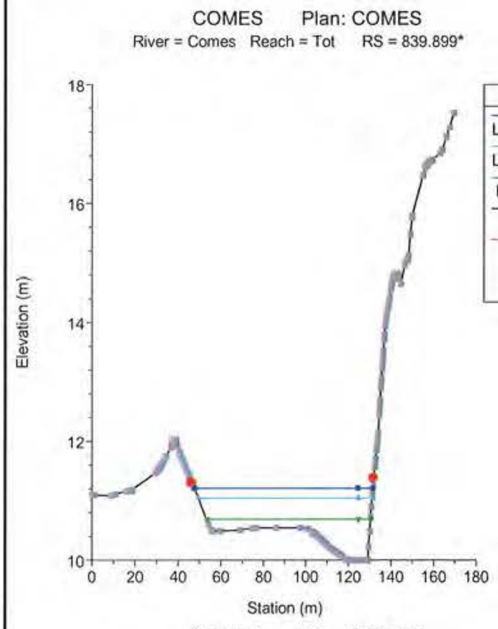

COMES Plan: COMES
River = Comes Reach = Tot RS = 844.597*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

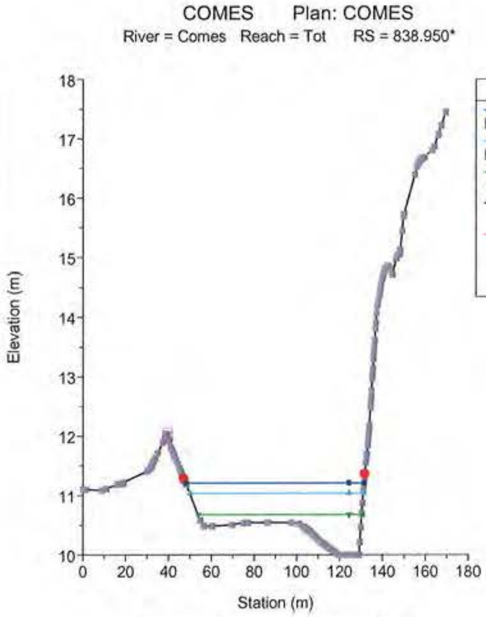

COMES Plan: COMES
River = Comes Reach = Tot RS = 843.672*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

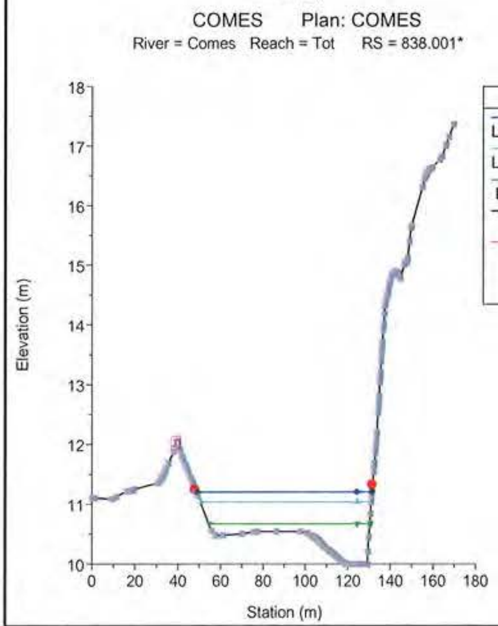

COMES Plan: COMES
River = Comes Reach = Tot RS = 842.747
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

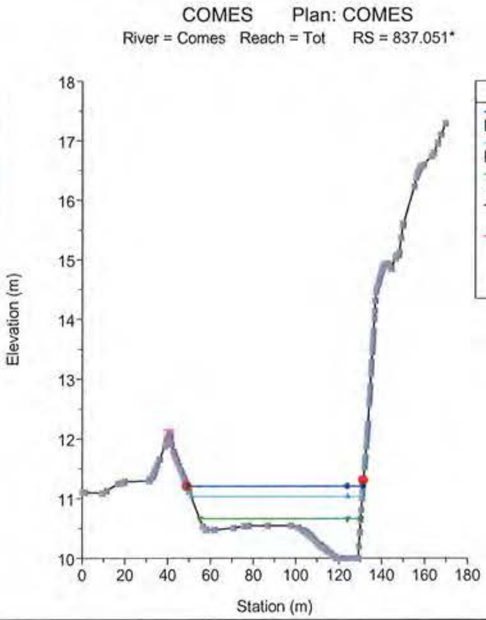

COMES Plan: COMES
River = Comes Reach = Tot RS = 841.797*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

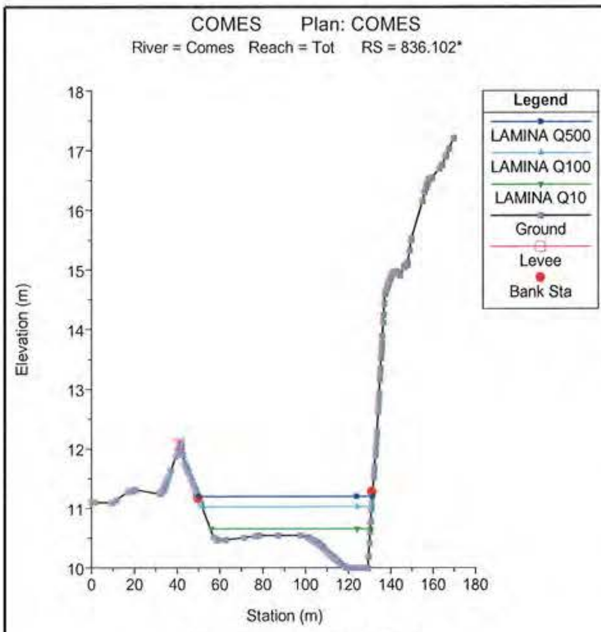

COMES Plan: COMES
River = Comes Reach = Tot RS = 840.848*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

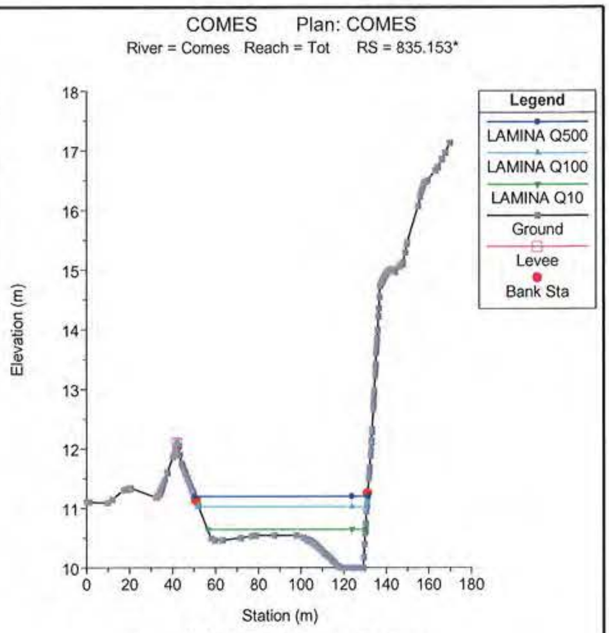

COMES Plan: COMES
River = Comes Reach = Tot RS = 839.899*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

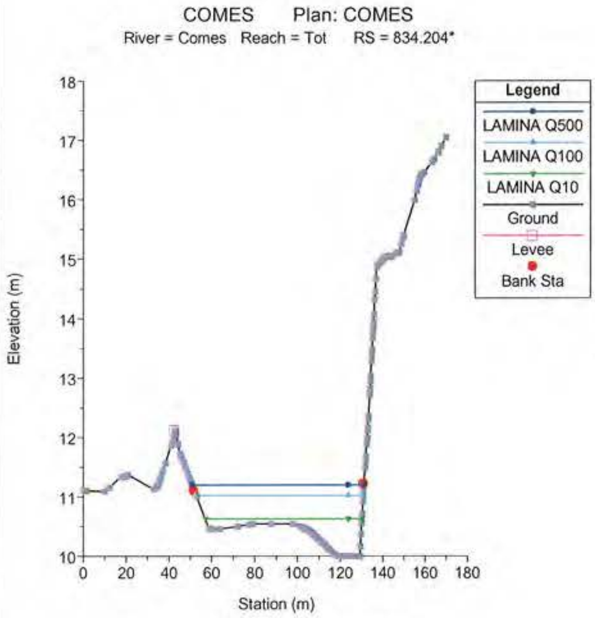

COMES Plan: COMES
River = Comes Reach = Tot RS = 838.950*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

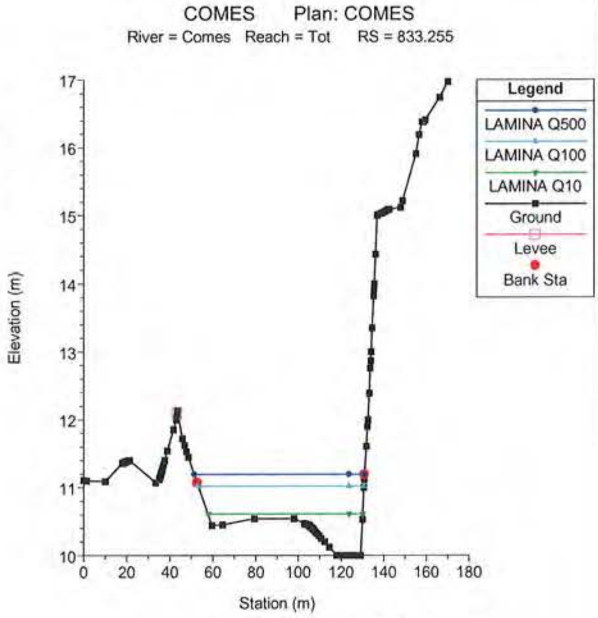

COMES Plan: COMES
River = Comes Reach = Tot RS = 838.001*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

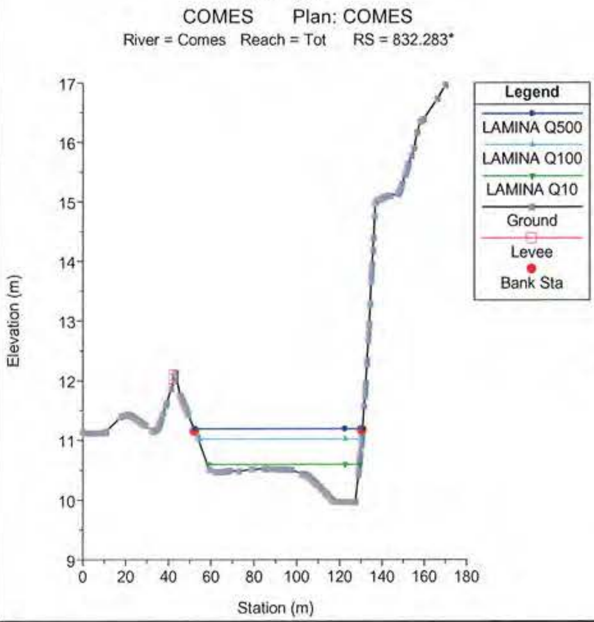

COMES Plan: COMES
River = Comes Reach = Tot RS = 837.051*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

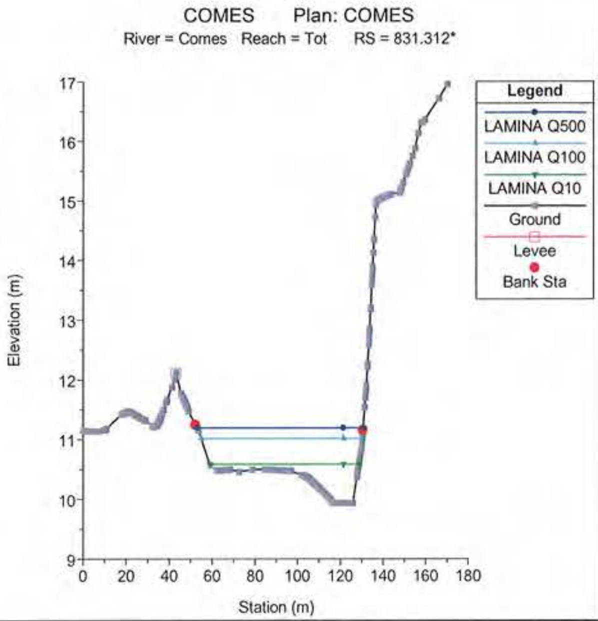

COMES Plan: COMES
River = Comes Reach = Tot RS = 836.102*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

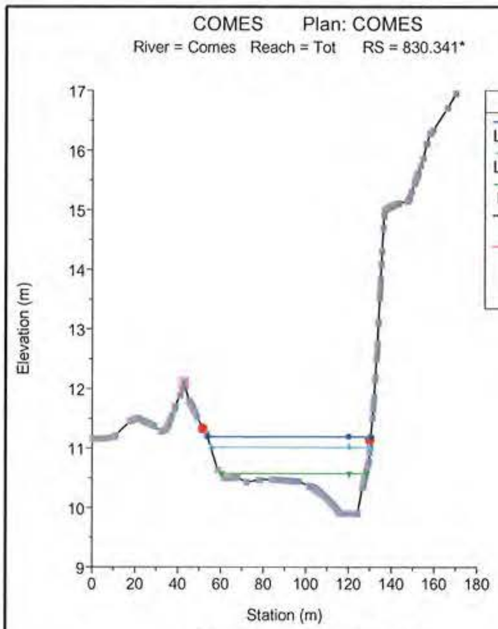

COMES Plan: COMES
River = Comes Reach = Tot RS = 835.153*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

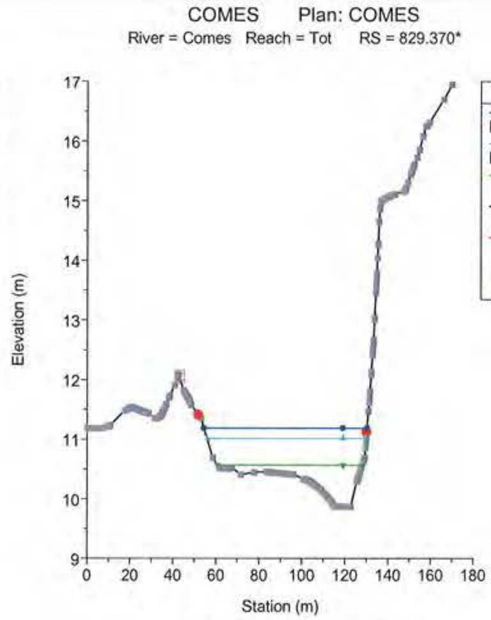

COMES Plan: COMES
River = Comes Reach = Tot RS = 834.204*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

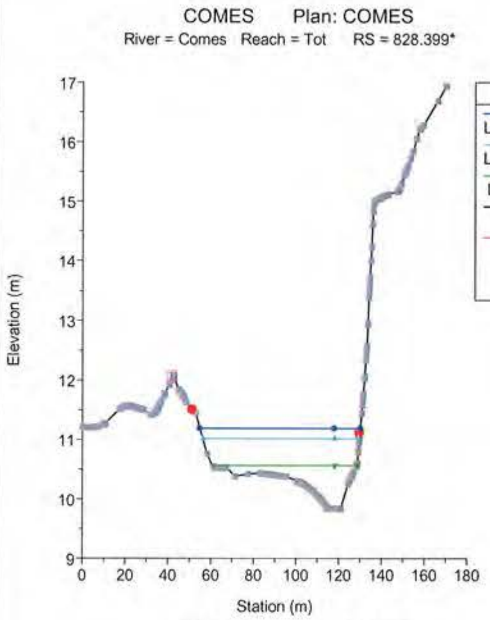

COMES Plan: COMES
River = Comes Reach = Tot RS = 833.255
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

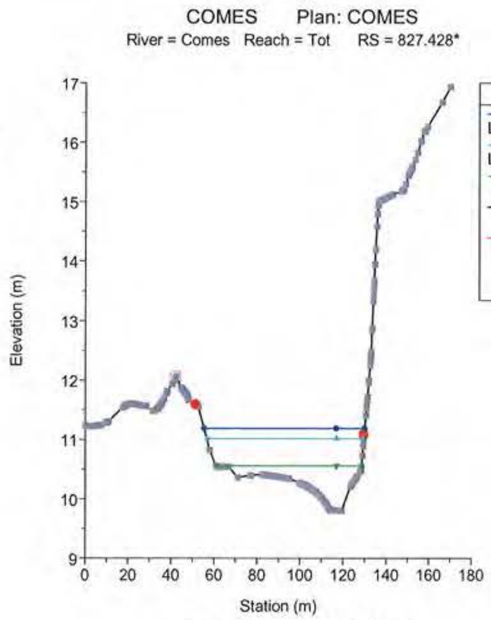

COMES Plan: COMES
River = Comes Reach = Tot RS = 832.283*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

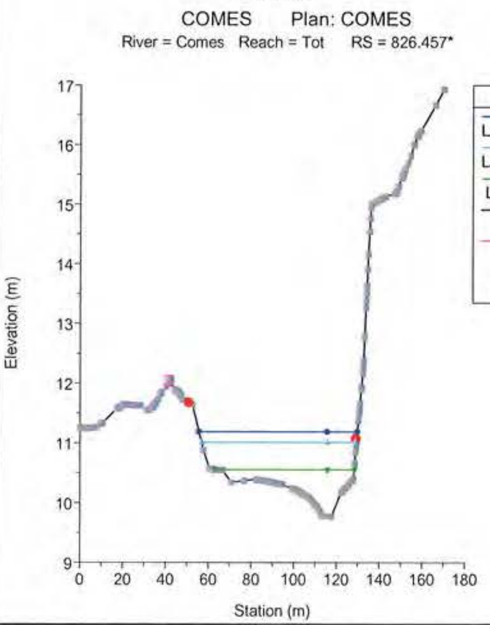

COMES Plan: COMES
River = Comes Reach = Tot RS = 831.312*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

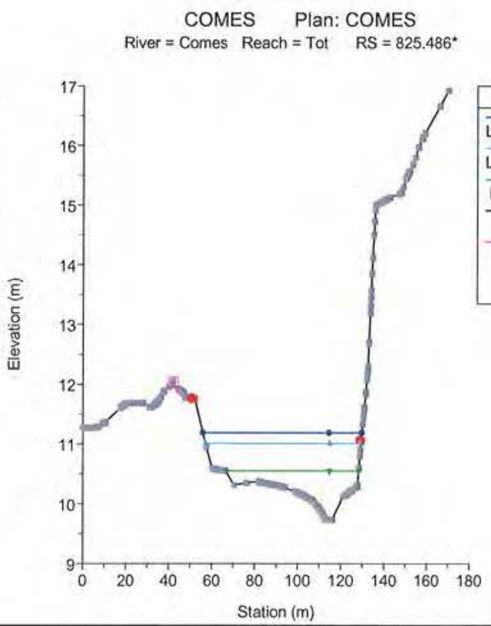

COMES Plan: COMES
River = Comes Reach = Tot RS = 830.341*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 829.370*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

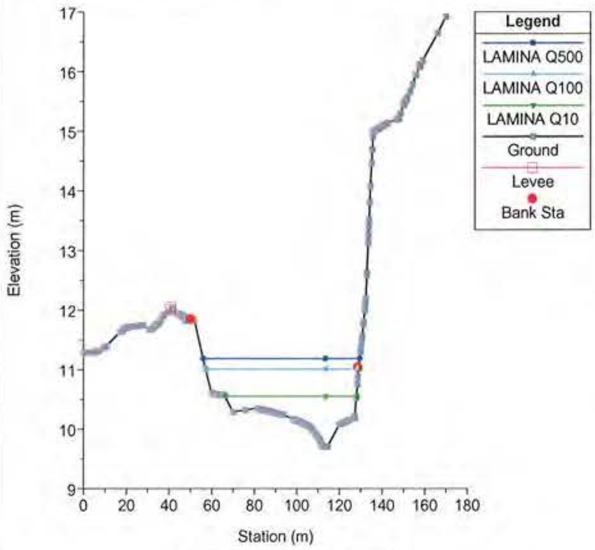

COMES Plan: COMES
River = Comes Reach = Tot RS = 828.399*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 827.428*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

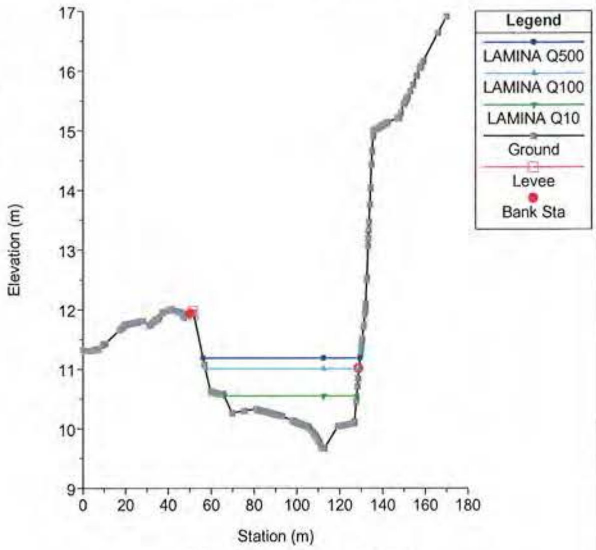

COMES Plan: COMES
River = Comes Reach = Tot RS = 826.457*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 825.486*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Levee
Bank Sta
Elevation (m)
Station (m)

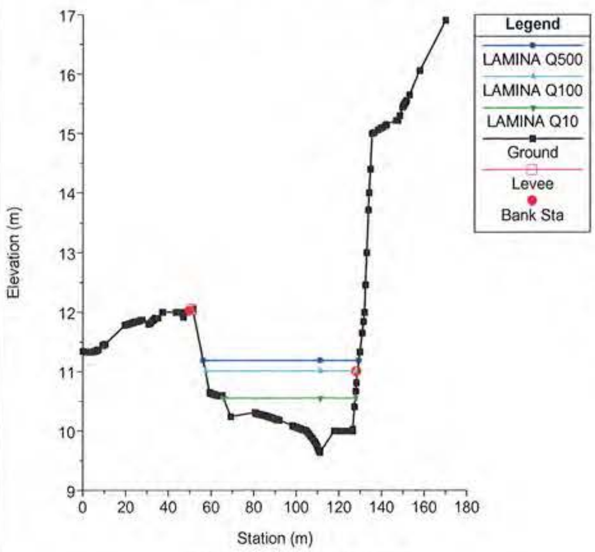
COMES Plan: COMES
River = Comes Reach = Tot RS = 824.515*



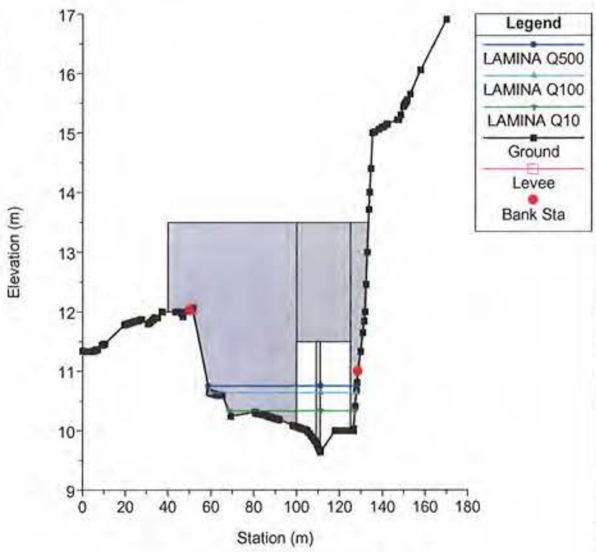
COMES Plan: COMES
River = Comes Reach = Tot RS = 823.544*



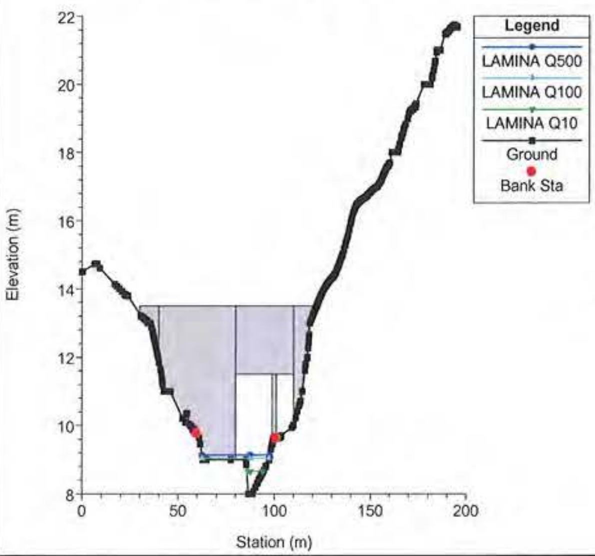
COMES Plan: COMES
River = Comes Reach = Tot RS = 822.573



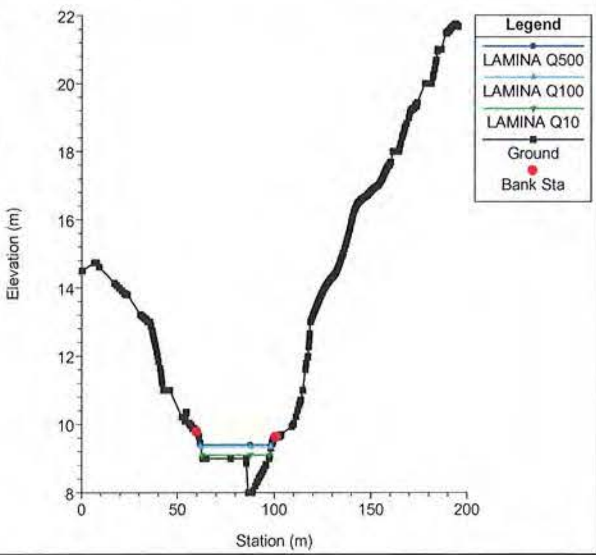
COMES Plan: COMES
River = Comes Reach = Tot RS = 800 BR

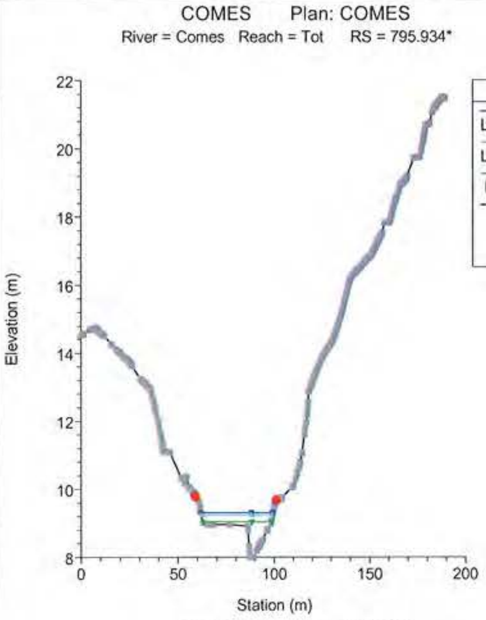


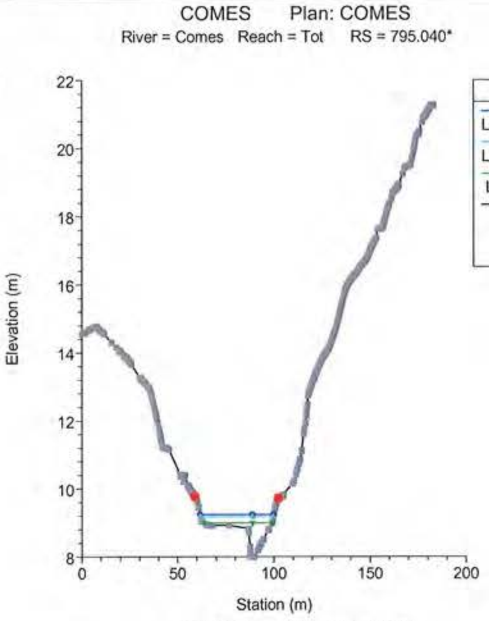
COMES Plan: COMES
River = Comes Reach = Tot RS = 800 BR

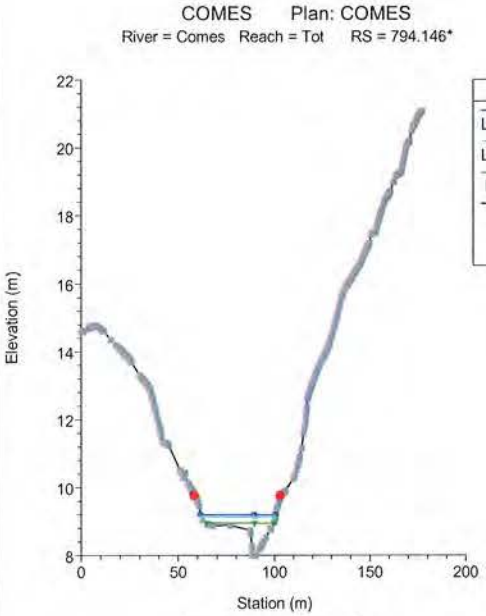


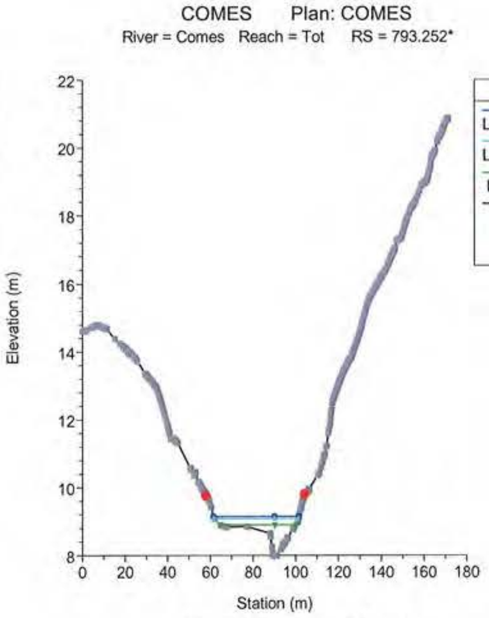
COMES Plan: COMES
River = Comes Reach = Tot RS = 796.829

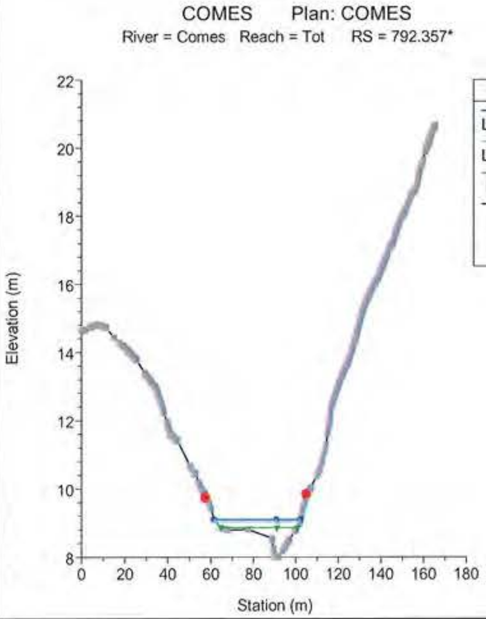


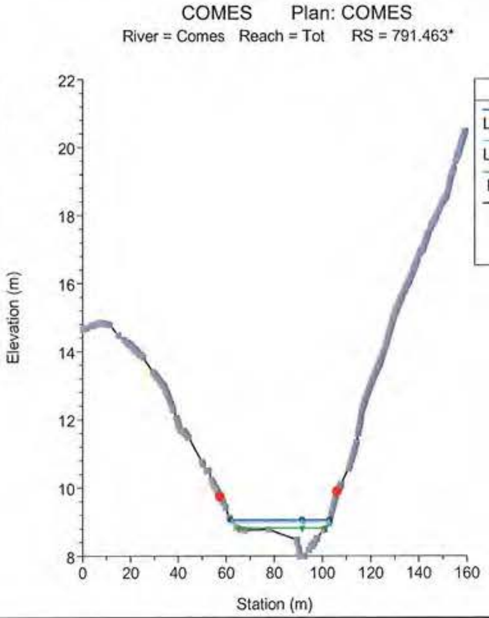

COMES Plan: COMES
River = Comes Reach = Tot RS = 795.934*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

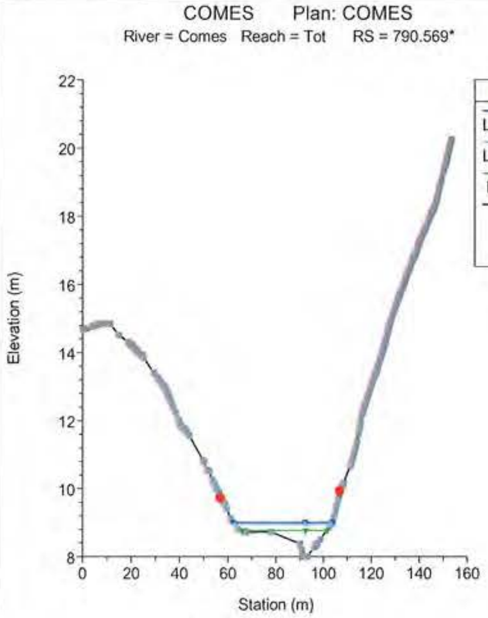

COMES Plan: COMES
River = Comes Reach = Tot RS = 795.040*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

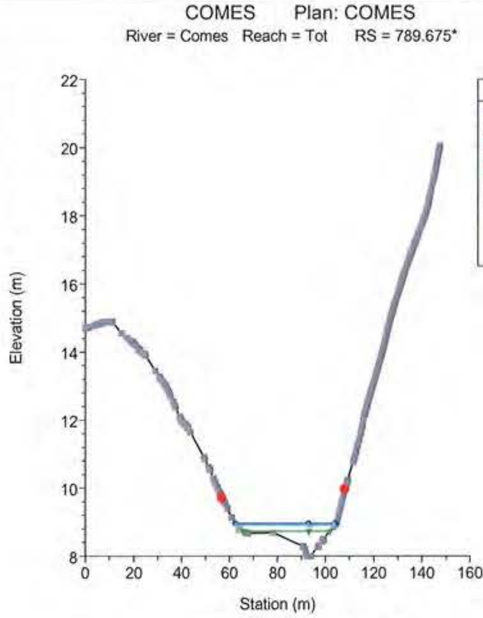

COMES Plan: COMES
River = Comes Reach = Tot RS = 794.146*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

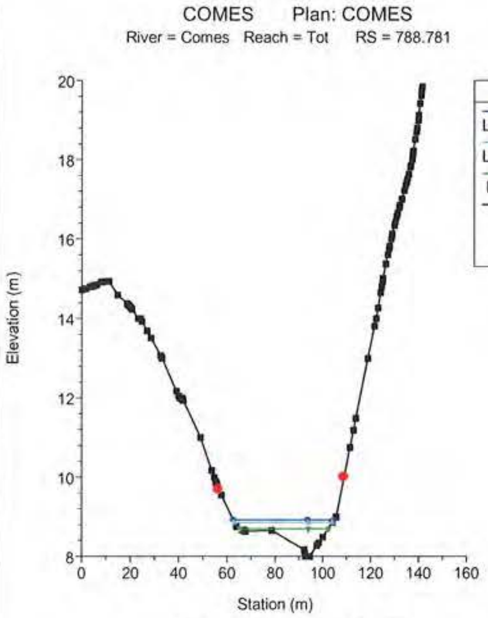

COMES Plan: COMES
River = Comes Reach = Tot RS = 793.252*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

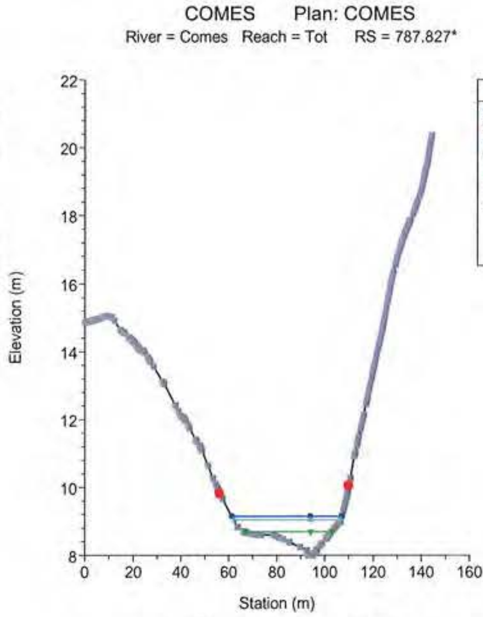

COMES Plan: COMES
River = Comes Reach = Tot RS = 792.357*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

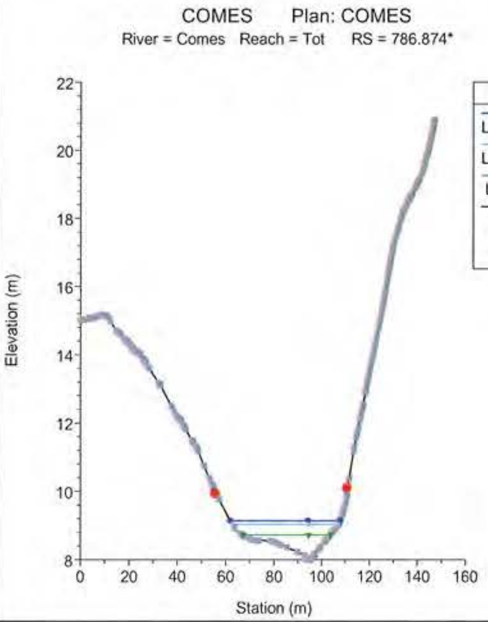

COMES Plan: COMES
River = Comes Reach = Tot RS = 791.463*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

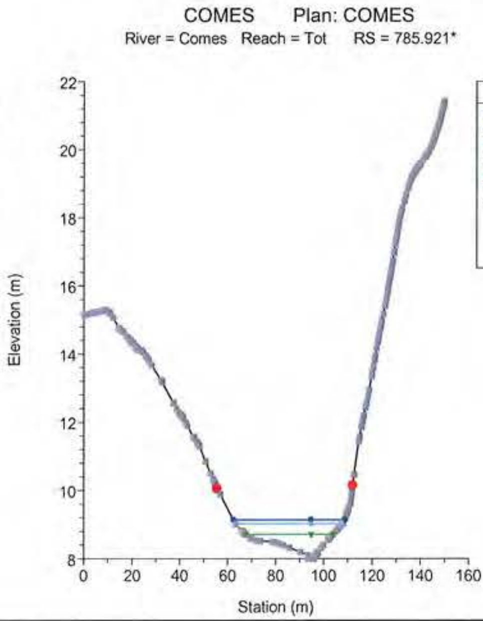

COMES Plan: COMES
River = Comes Reach = Tot RS = 790.569*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 789.675*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

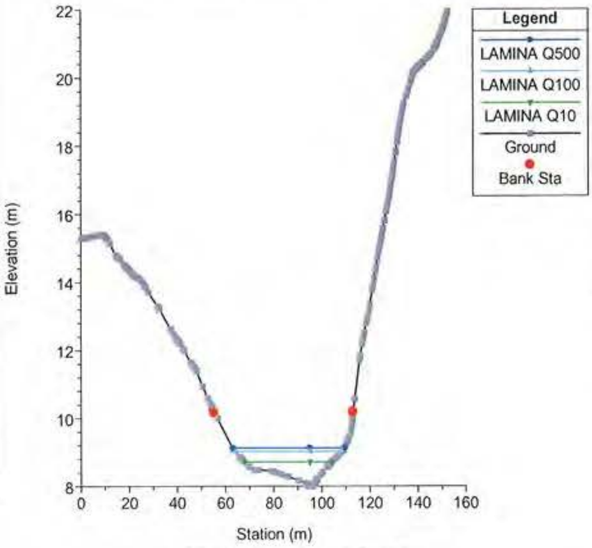

COMES Plan: COMES
River = Comes Reach = Tot RS = 788.781
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 787.827*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

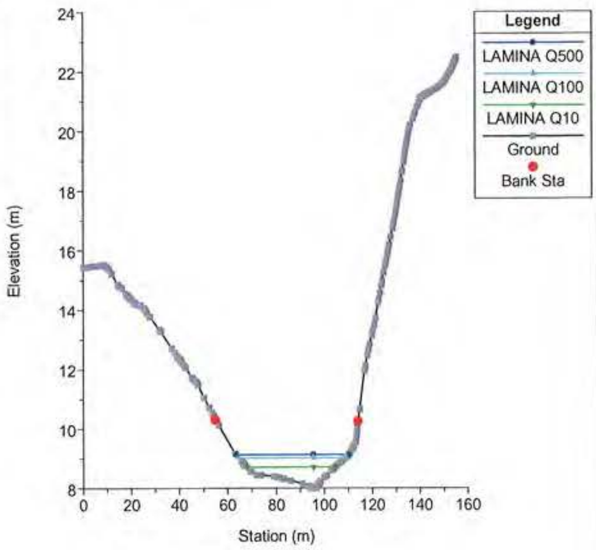

COMES Plan: COMES
River = Comes Reach = Tot RS = 786.874*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 785.921*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

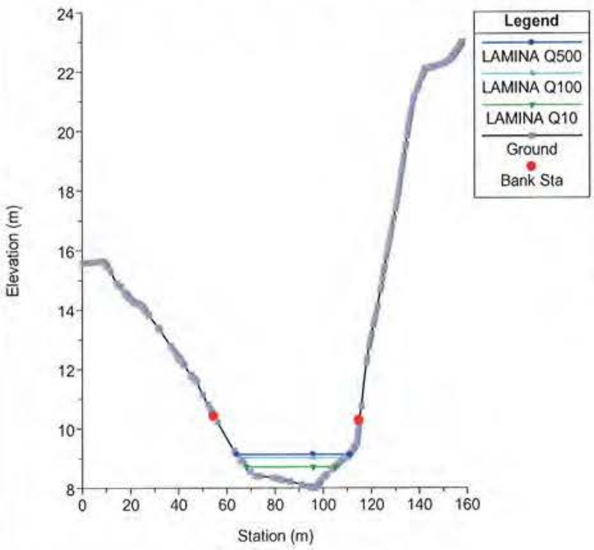
COMES Plan: COMES
River = Comes Reach = Tot RS = 784.968*



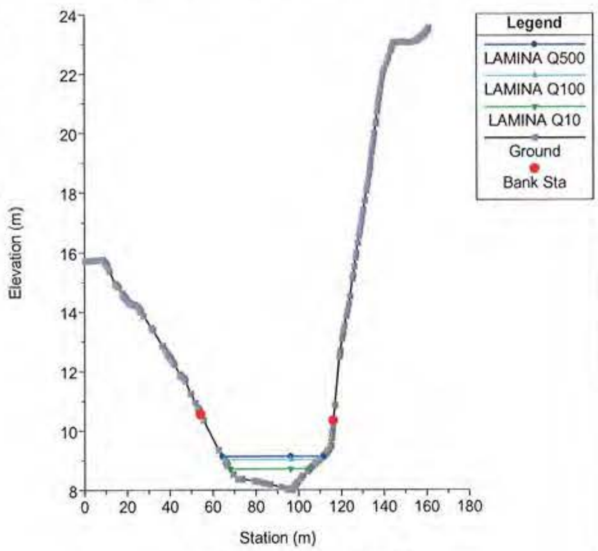
COMES Plan: COMES
River = Comes Reach = Tot RS = 784.014*



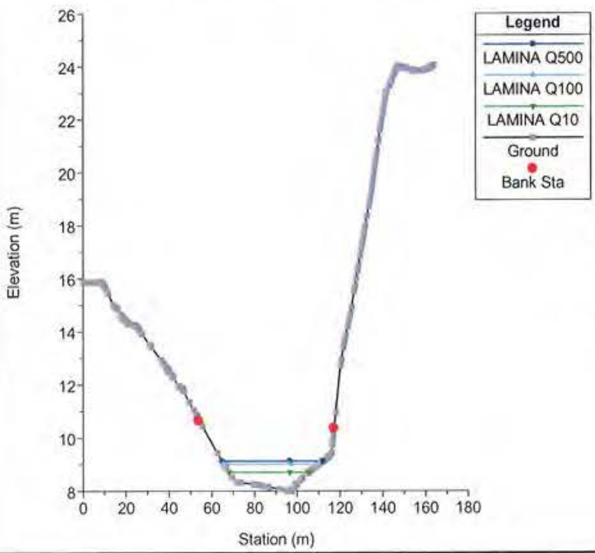
COMES Plan: COMES
River = Comes Reach = Tot RS = 783.061*



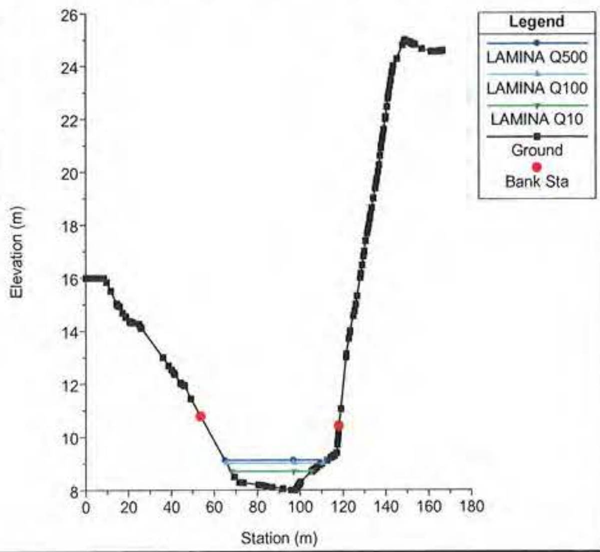
COMES Plan: COMES
River = Comes Reach = Tot RS = 782.108*

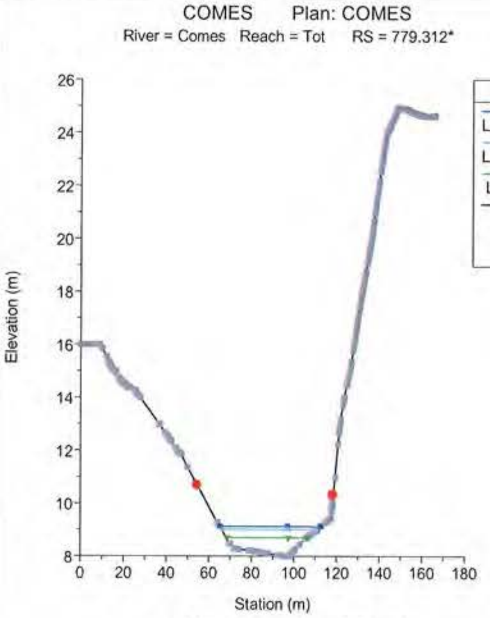


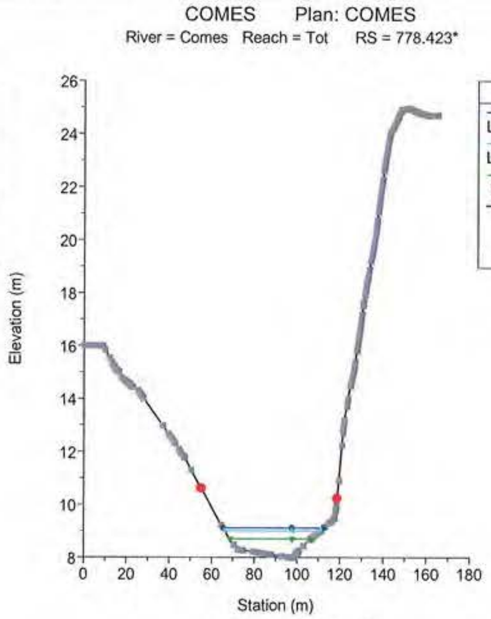
COMES Plan: COMES
River = Comes Reach = Tot RS = 781.155*

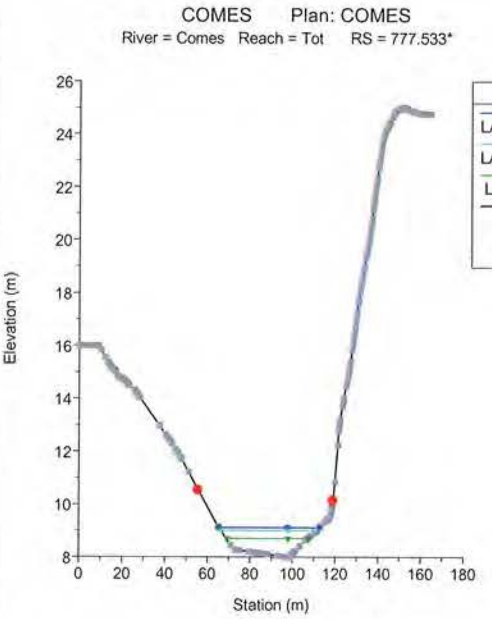


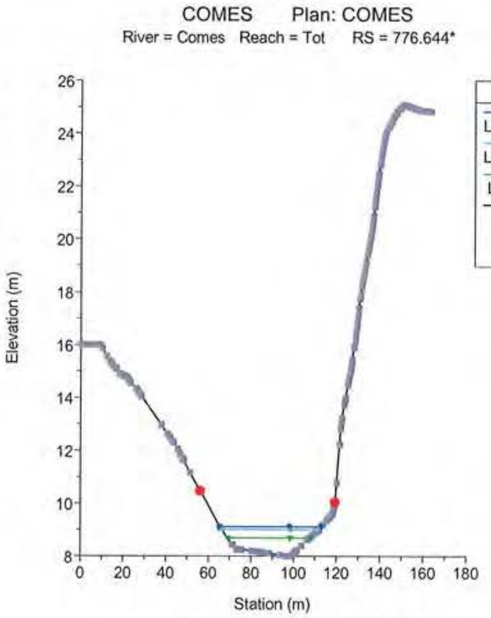
COMES Plan: COMES
River = Comes Reach = Tot RS = 780.202

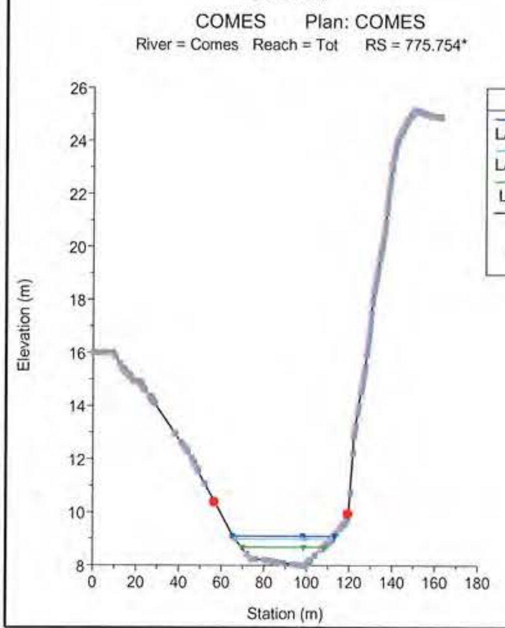


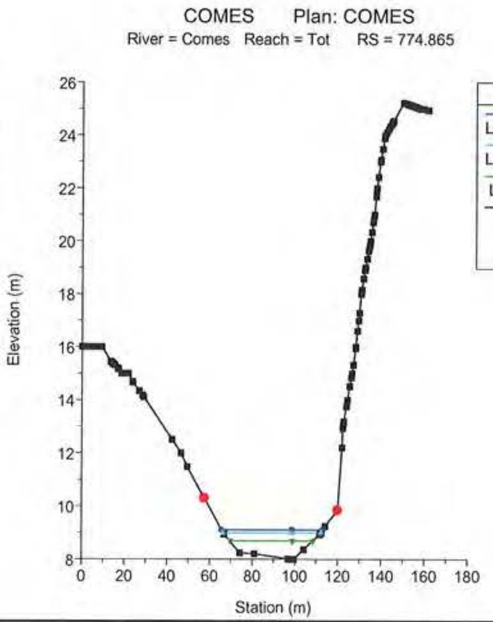

COMES Plan: COMES
River = Comes Reach = Tot RS = 779.312*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

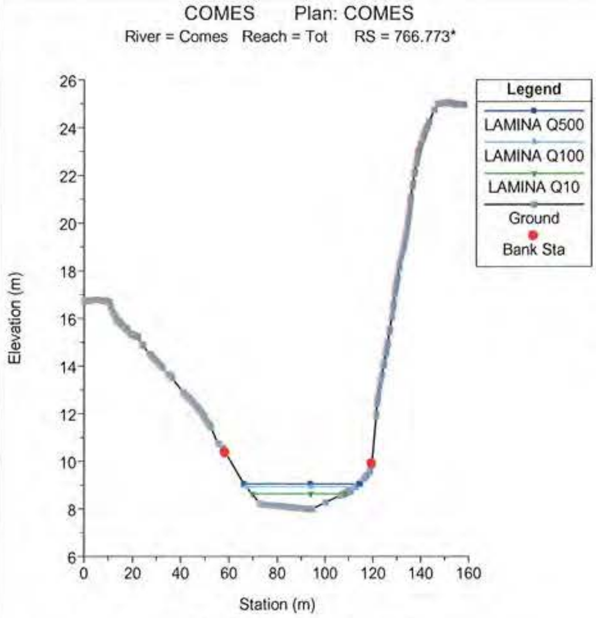

COMES Plan: COMES
River = Comes Reach = Tot RS = 778.423*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

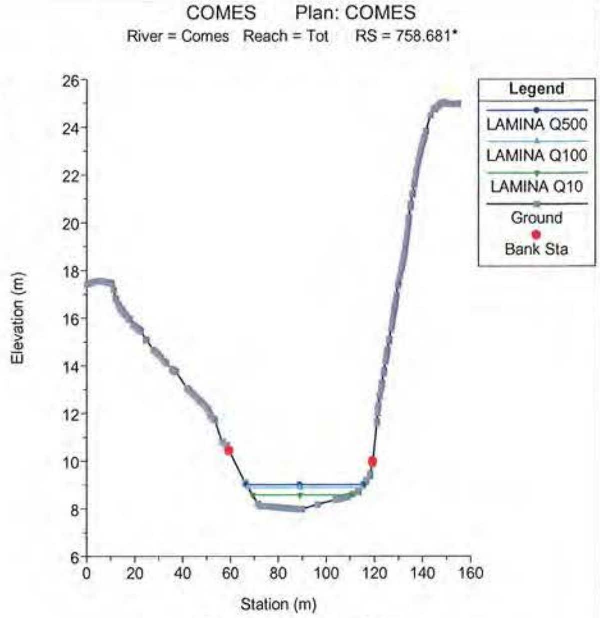

COMES Plan: COMES
River = Comes Reach = Tot RS = 777.533*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

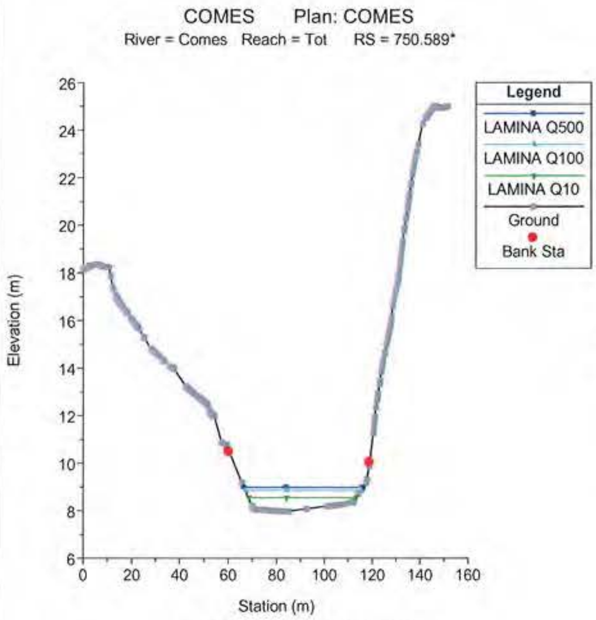

COMES Plan: COMES
River = Comes Reach = Tot RS = 776.644*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

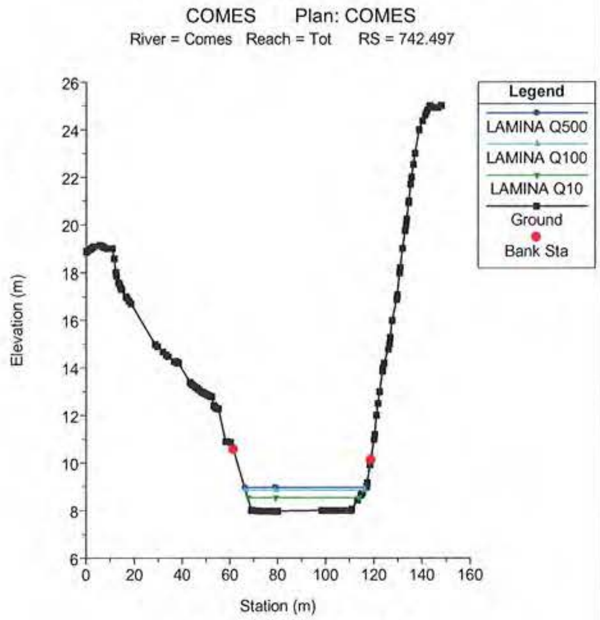

COMES Plan: COMES
River = Comes Reach = Tot RS = 775.754*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

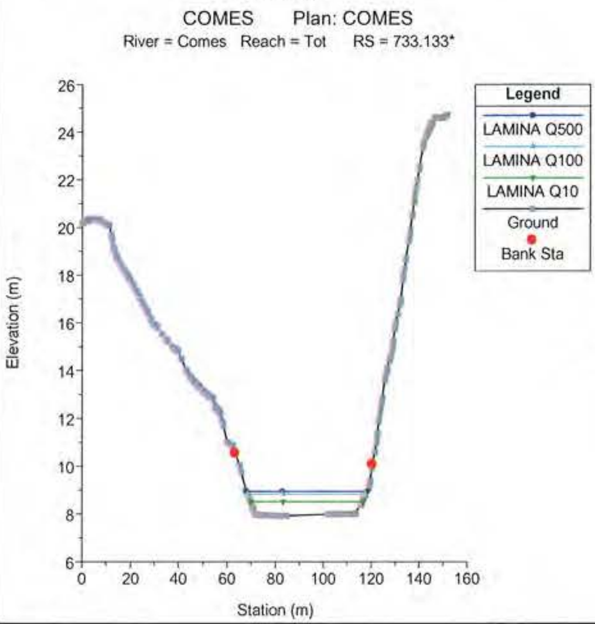

COMES Plan: COMES
River = Comes Reach = Tot RS = 774.865
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

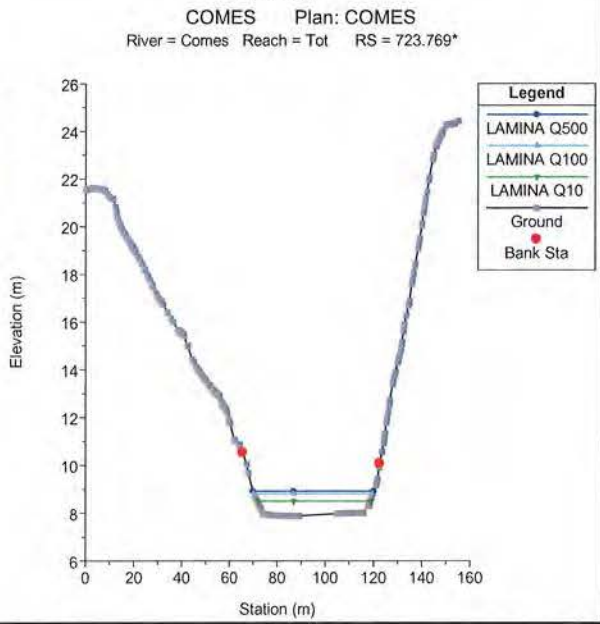

COMES Plan: COMES
River = Comes Reach = Tot RS = 766.773*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

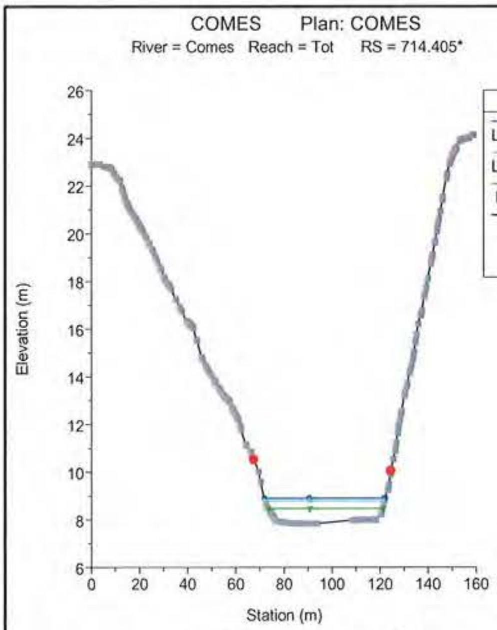

COMES Plan: COMES
River = Comes Reach = Tot RS = 758.681*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

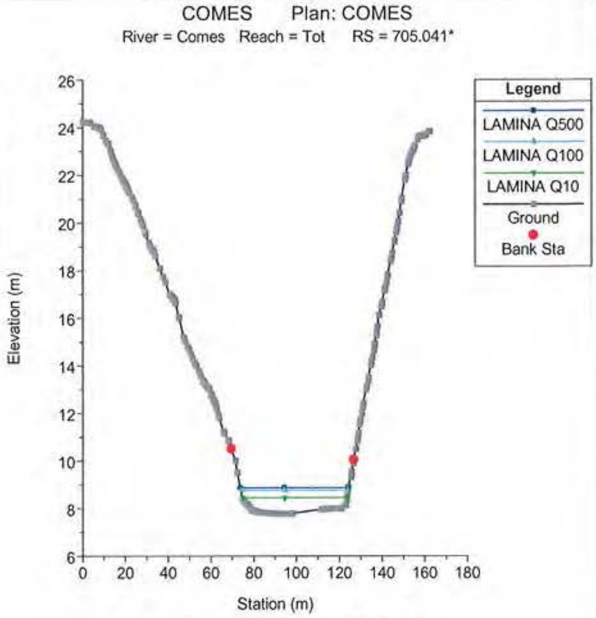

COMES Plan: COMES
River = Comes Reach = Tot RS = 750.589*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

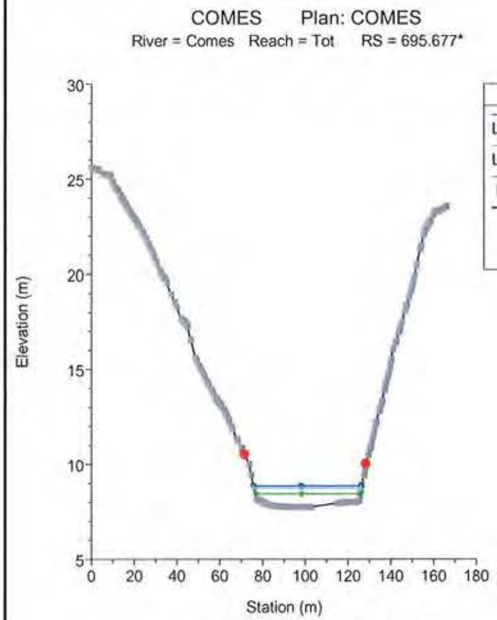

COMES Plan: COMES
River = Comes Reach = Tot RS = 742.497
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

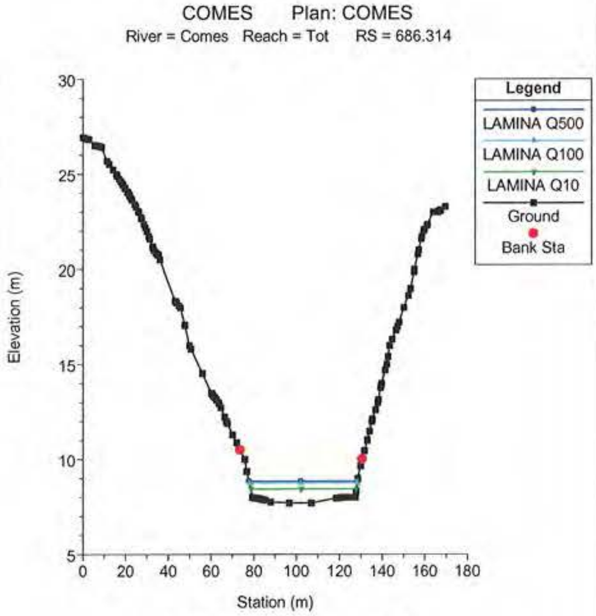

COMES Plan: COMES
River = Comes Reach = Tot RS = 733.133*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

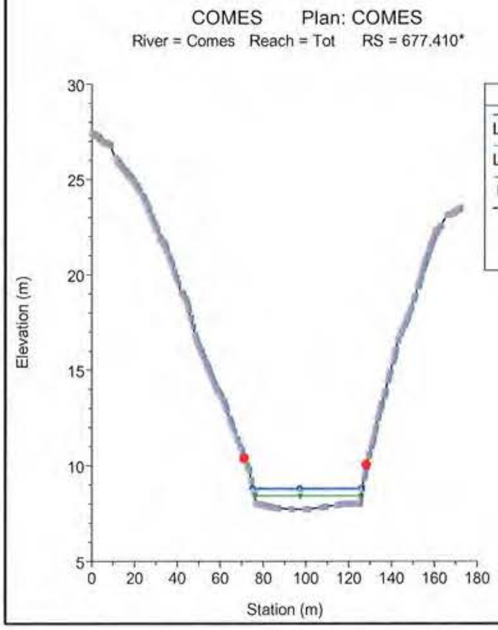

COMES Plan: COMES
River = Comes Reach = Tot RS = 723.769*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

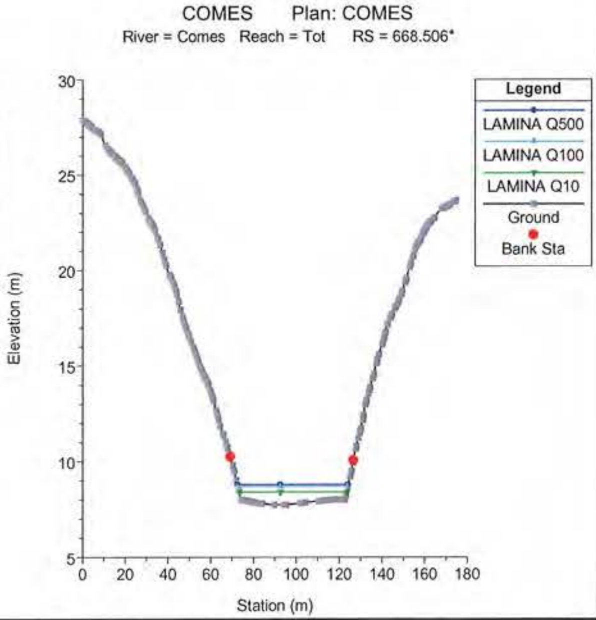

COMES Plan: COMES
River = Comes Reach = Tot RS = 714.405*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

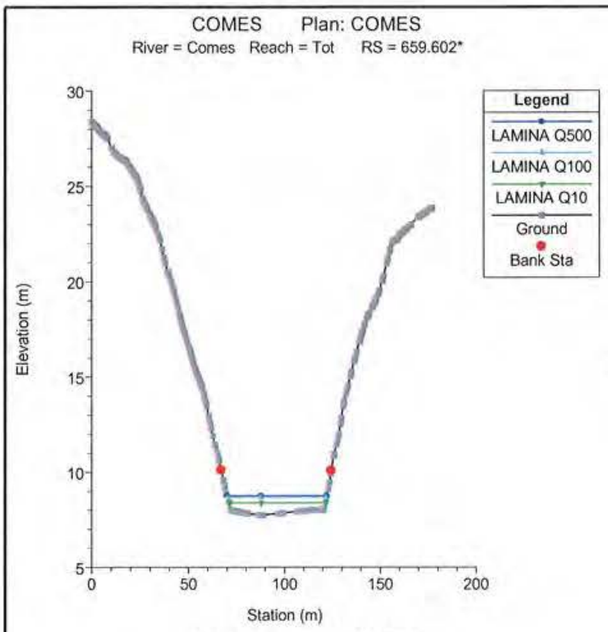

COMES Plan: COMES
River = Comes Reach = Tot RS = 705.041*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

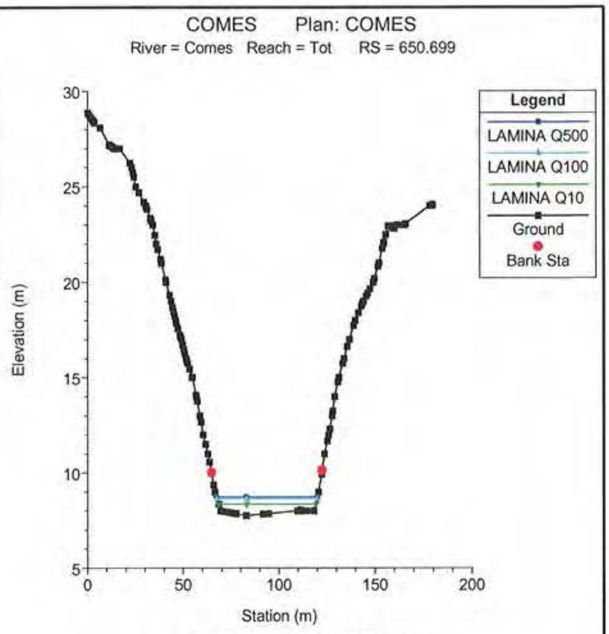

COMES Plan: COMES
River = Comes Reach = Tot RS = 695.677*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

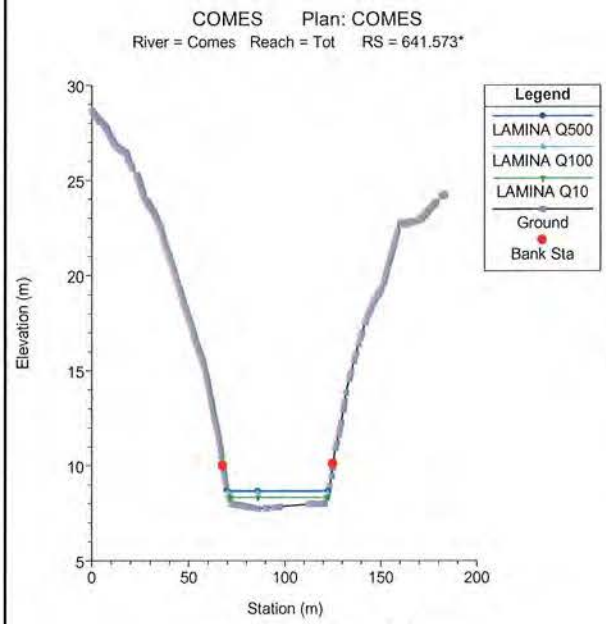

COMES Plan: COMES
River = Comes Reach = Tot RS = 686.314
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

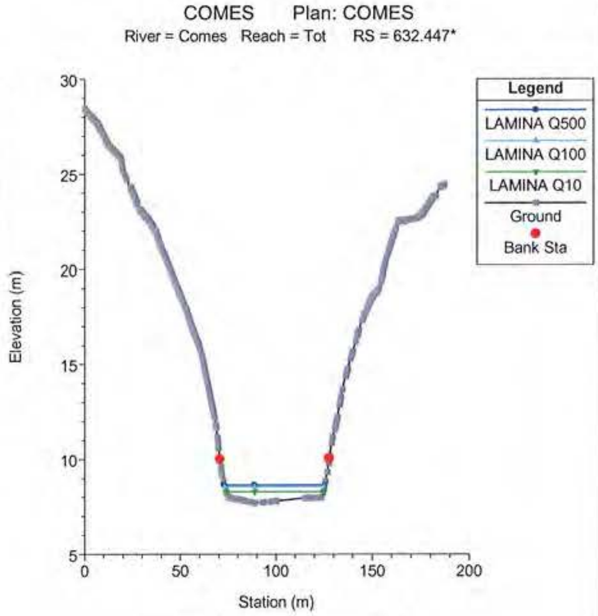

COMES Plan: COMES
River = Comes Reach = Tot RS = 677.410*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

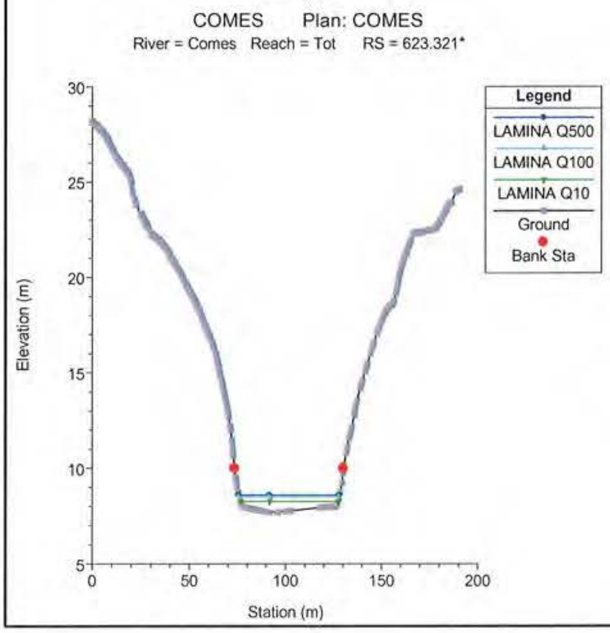

COMES Plan: COMES
River = Comes Reach = Tot RS = 668.506*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

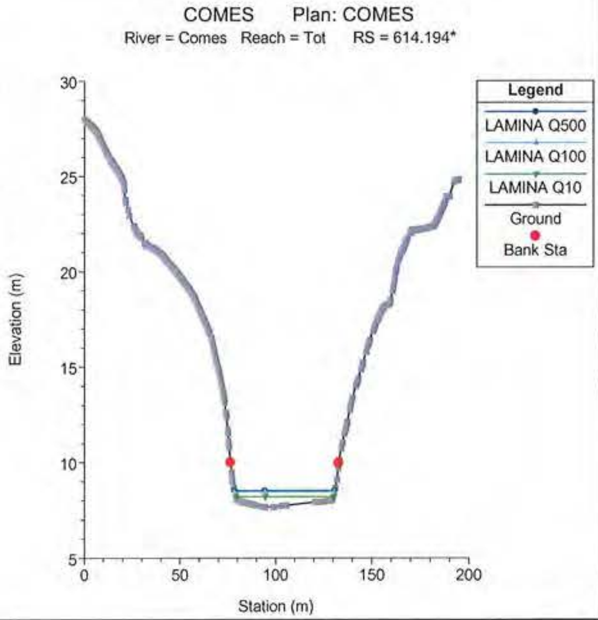

COMES Plan: COMES
River = Comes Reach = Tot RS = 659.602*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

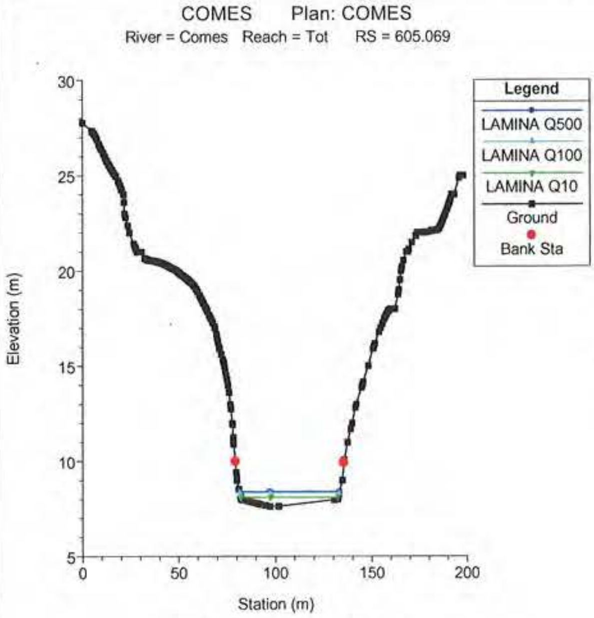

COMES Plan: COMES
River = Comes Reach = Tot RS = 650.699
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

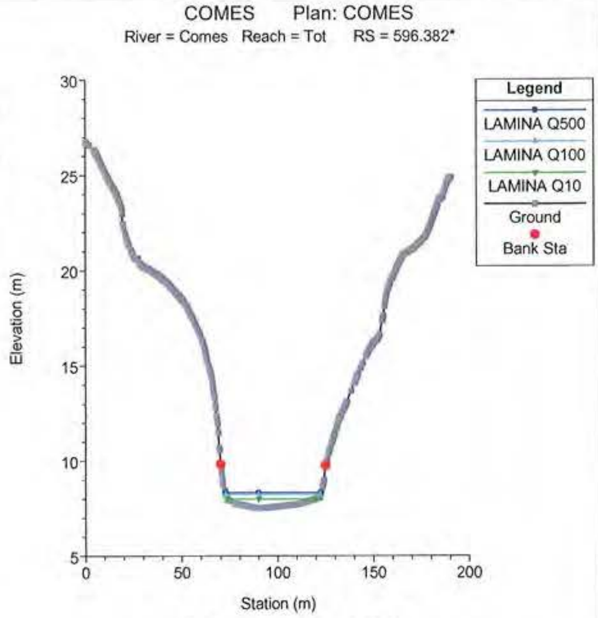

COMES Plan: COMES
River = Comes Reach = Tot RS = 641.573*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

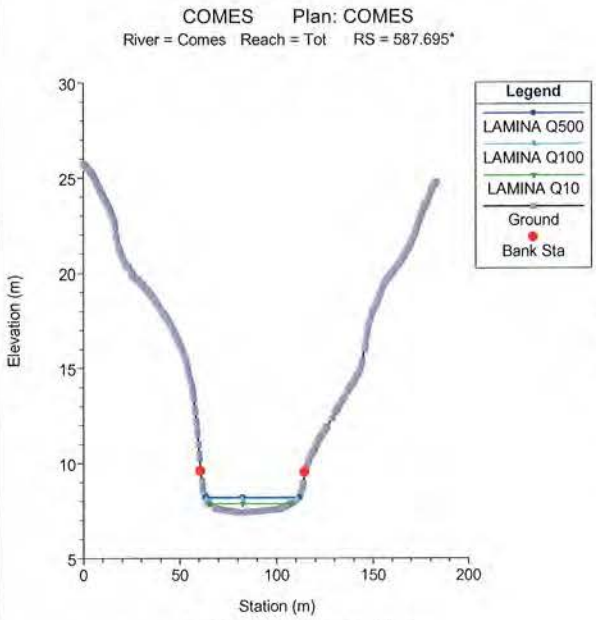

COMES Plan: COMES
River = Comes Reach = Tot RS = 632.447*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

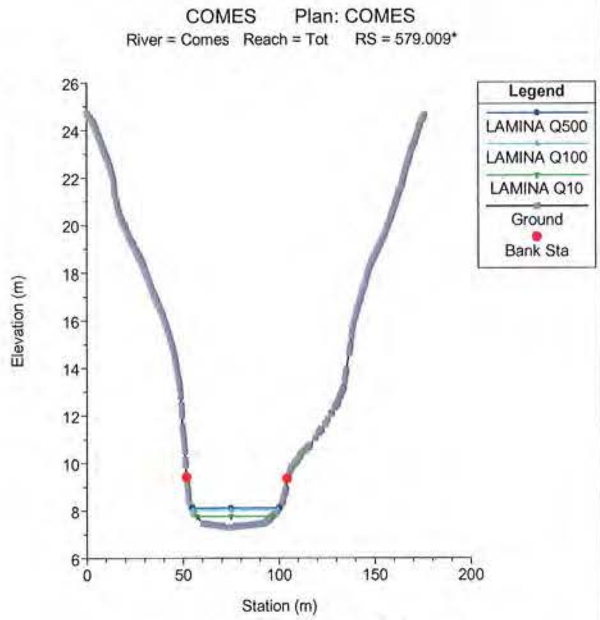

COMES Plan: COMES
River = Comes Reach = Tot RS = 623.321*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

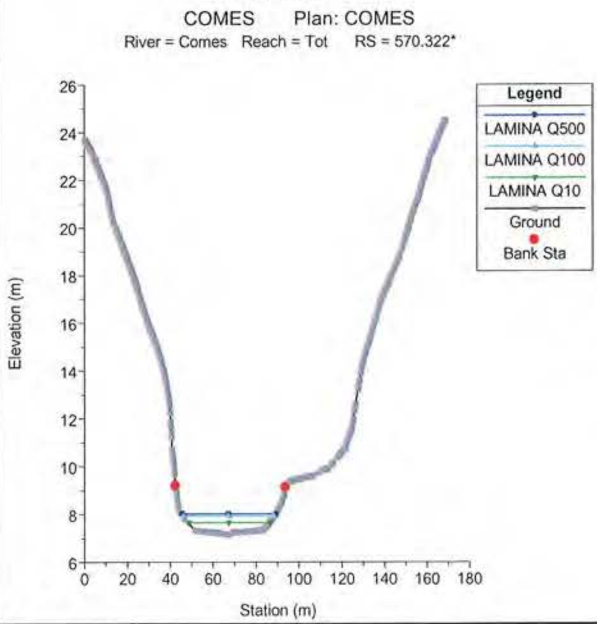

COMES Plan: COMES
River = Comes Reach = Tot RS = 614.194*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

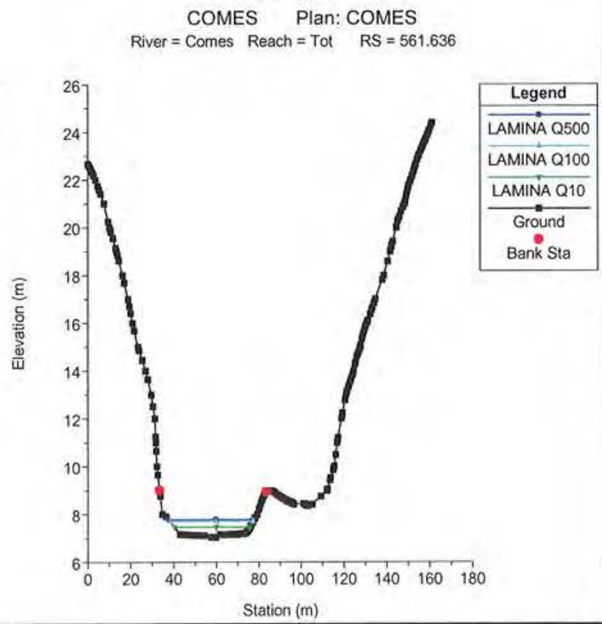

COMES Plan: COMES
River = Comes Reach = Tot RS = 605.069
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

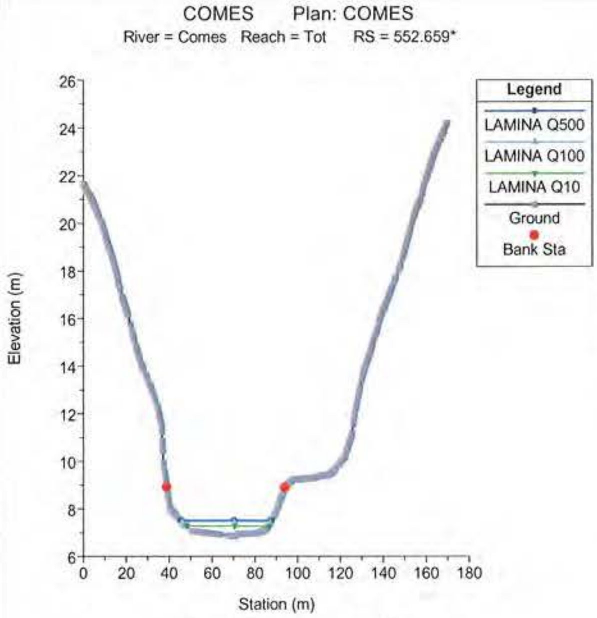

COMES Plan: COMES
River = Comes Reach = Tot RS = 596.382*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

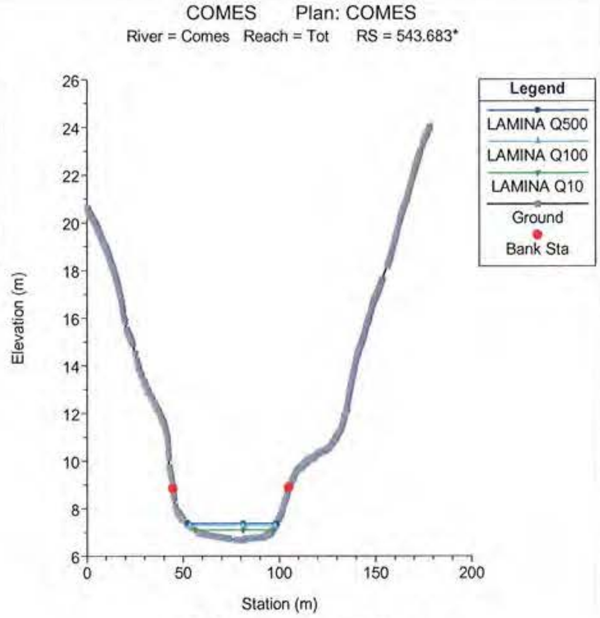

COMES Plan: COMES
River = Comes Reach = Tot RS = 587.695*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

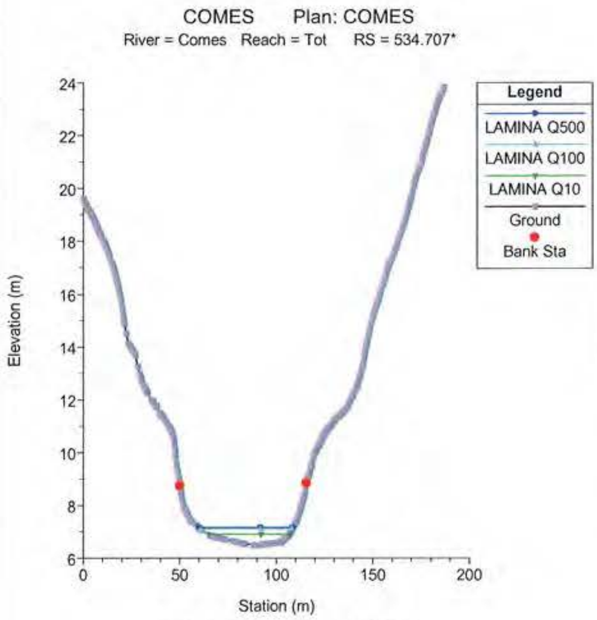

COMES Plan: COMES
River = Comes Reach = Tot RS = 579.009*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

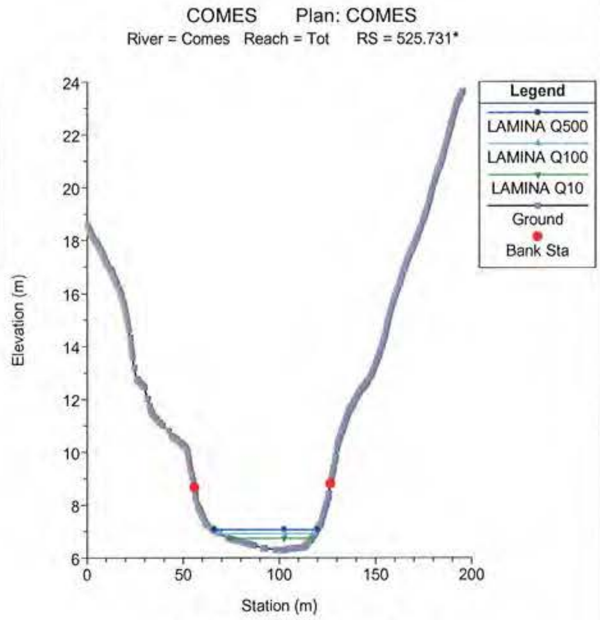

COMES Plan: COMES
River = Comes Reach = Tot RS = 570.322*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

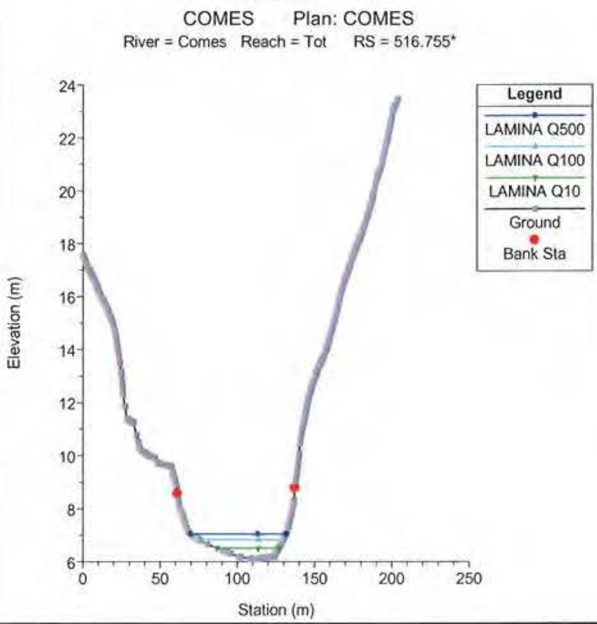

COMES Plan: COMES
River = Comes Reach = Tot RS = 561.636
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

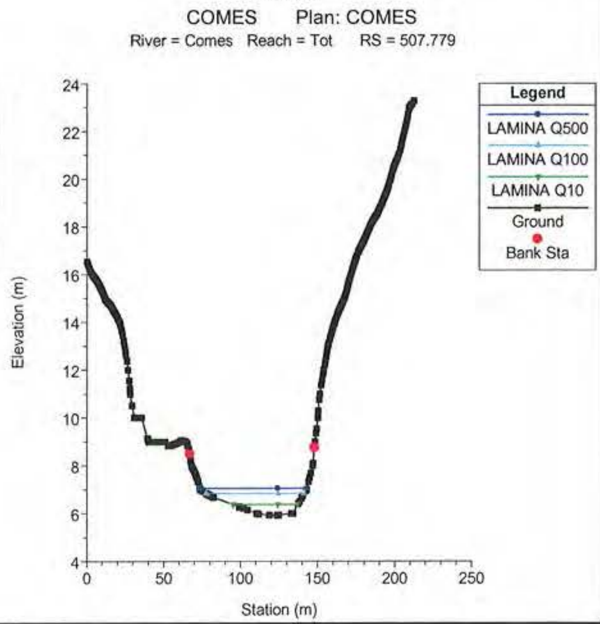

COMES Plan: COMES
River = Comes Reach = Tot RS = 552.659*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

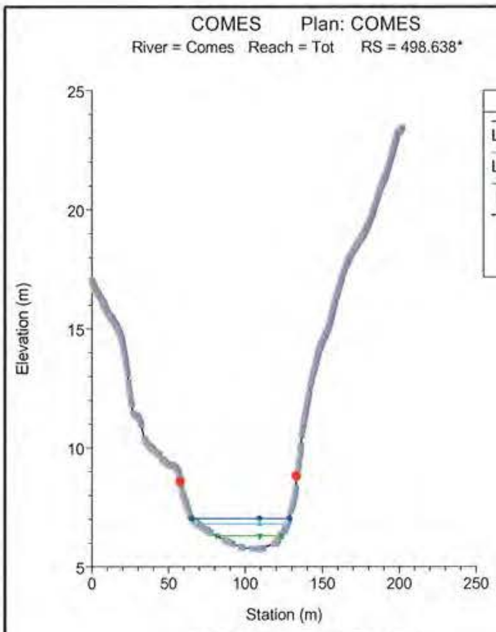

COMES Plan: COMES
River = Comes Reach = Tot RS = 543.683*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

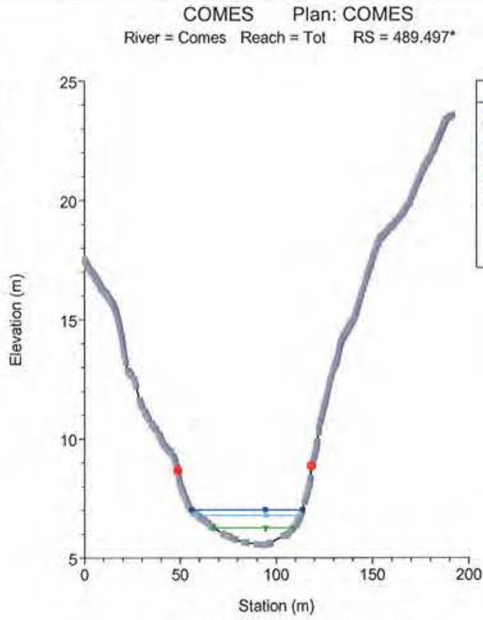

COMES Plan: COMES
River = Comes Reach = Tot RS = 534.707*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

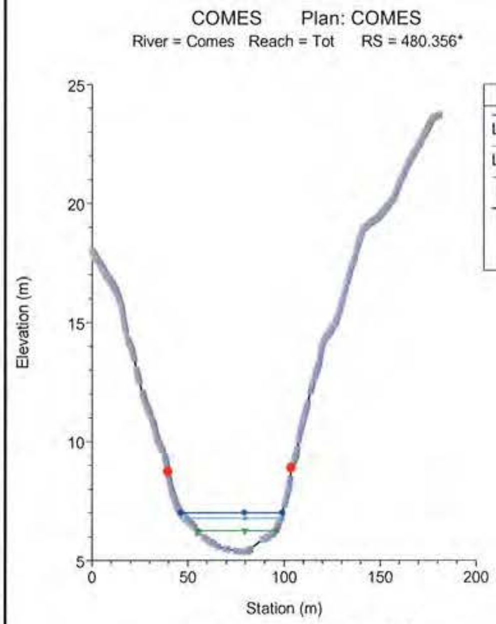

COMES Plan: COMES
River = Comes Reach = Tot RS = 525.731*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

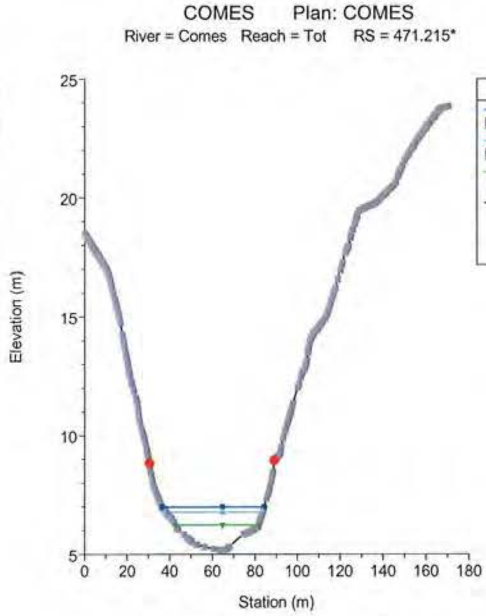

COMES Plan: COMES
River = Comes Reach = Tot RS = 516.755*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

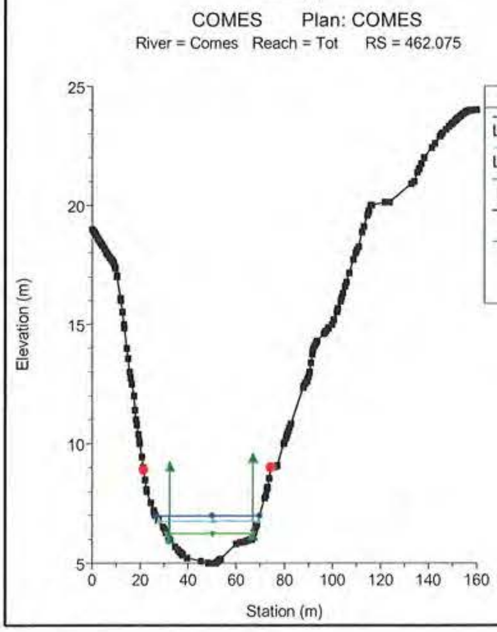

COMES Plan: COMES
River = Comes Reach = Tot RS = 507.779
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

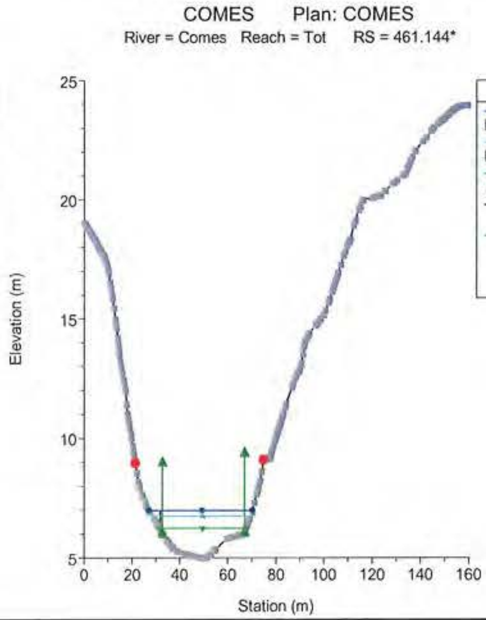

COMES Plan: COMES
River = Comes Reach = Tot RS = 498.638*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

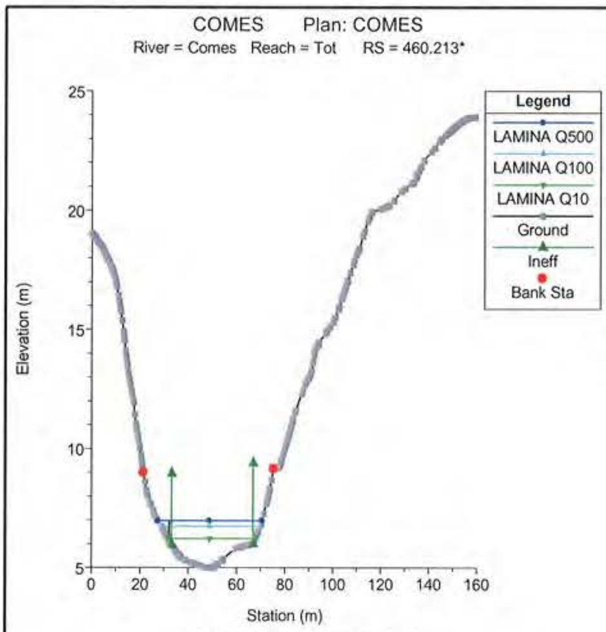

COMES Plan: COMES
River = Comes Reach = Tot RS = 489.497*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

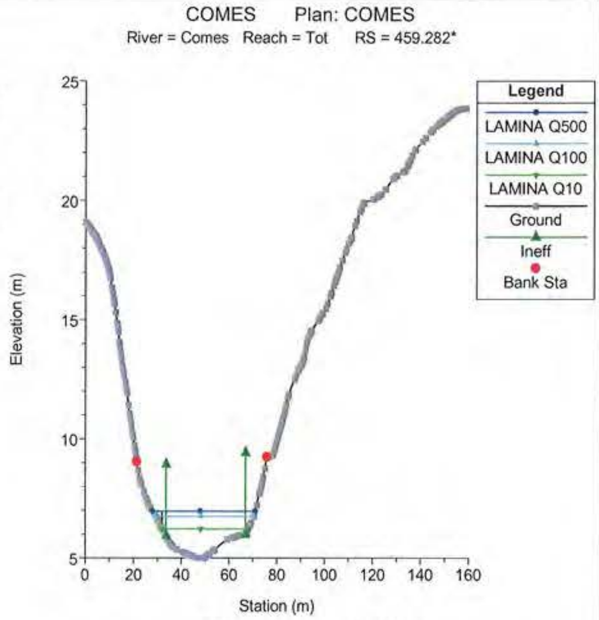

COMES Plan: COMES
River = Comes Reach = Tot RS = 480.356*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

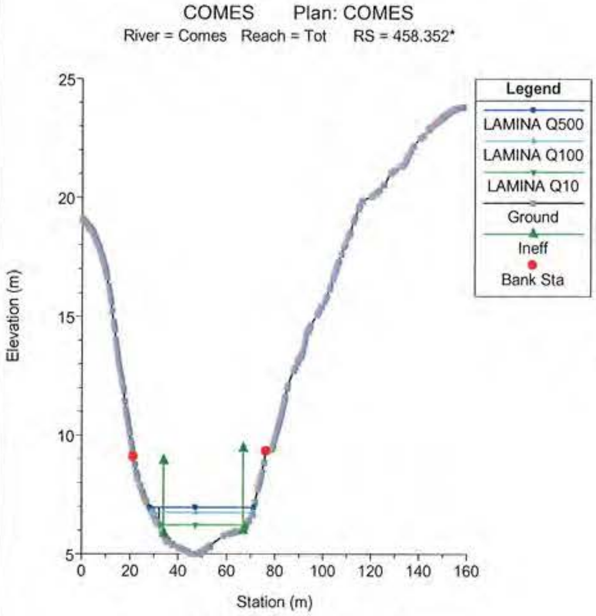

COMES Plan: COMES
River = Comes Reach = Tot RS = 471.215*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

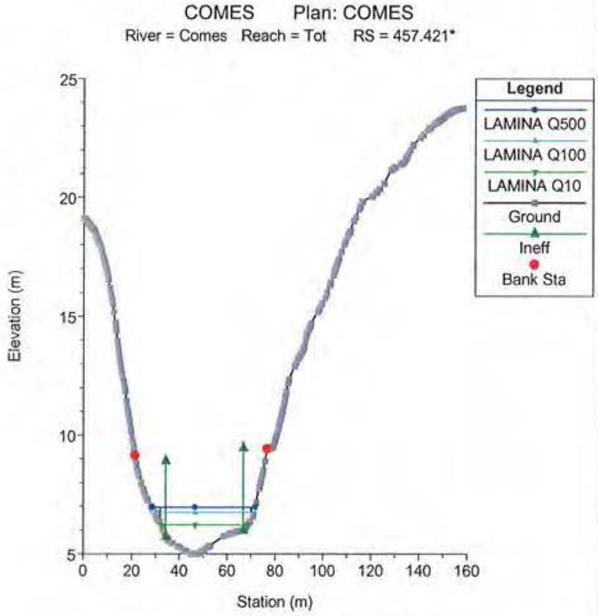

COMES Plan: COMES
River = Comes Reach = Tot RS = 462.075
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

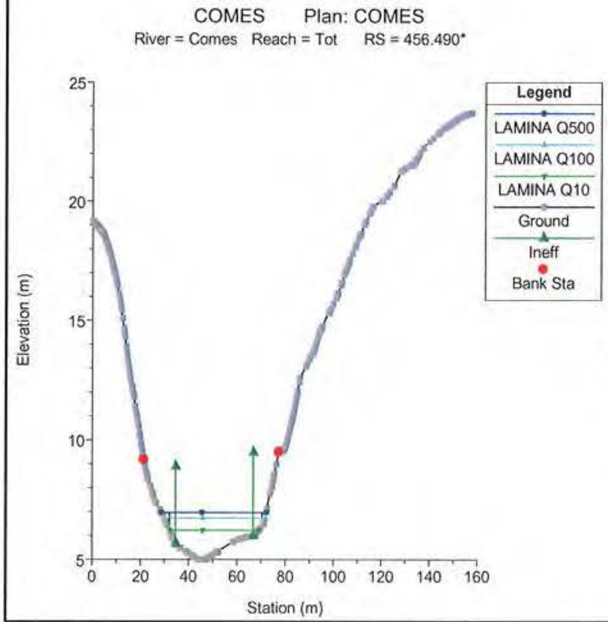

COMES Plan: COMES
River = Comes Reach = Tot RS = 461.144*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

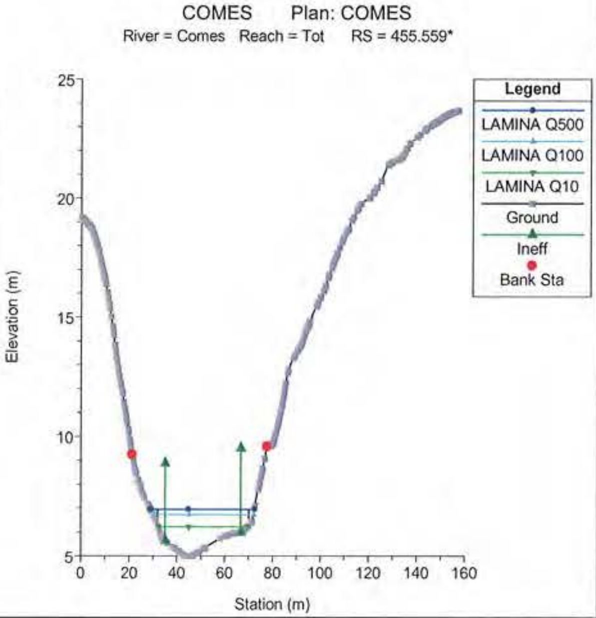

COMES Plan: COMES
River = Comes Reach = Tot RS = 460.213*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 459.282*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

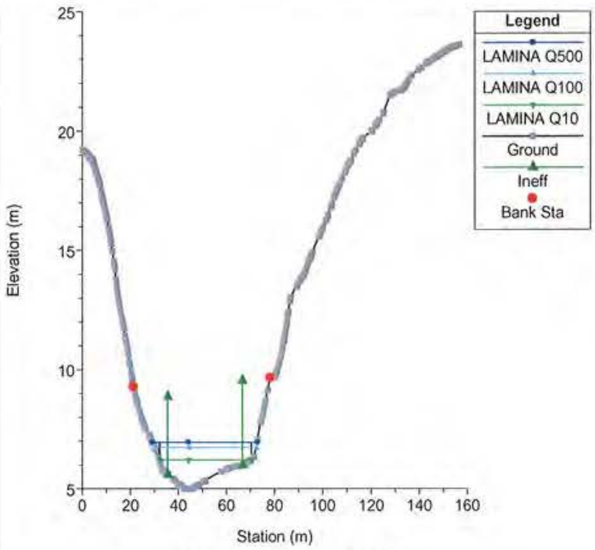

COMES Plan: COMES
River = Comes Reach = Tot RS = 458.352*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 457.421*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

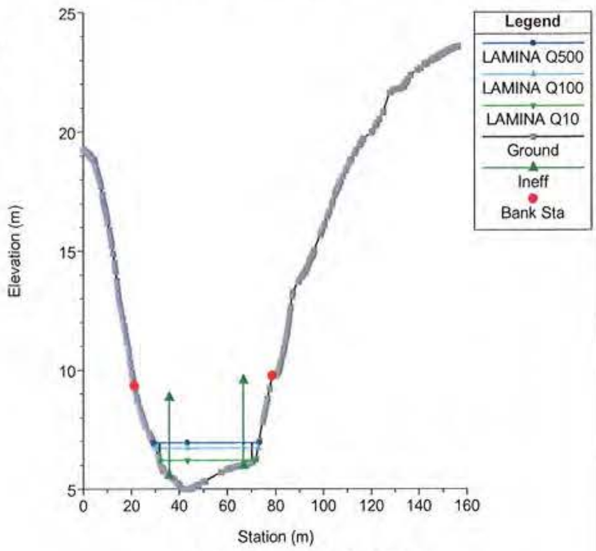

COMES Plan: COMES
River = Comes Reach = Tot RS = 456.490*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 455.559*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

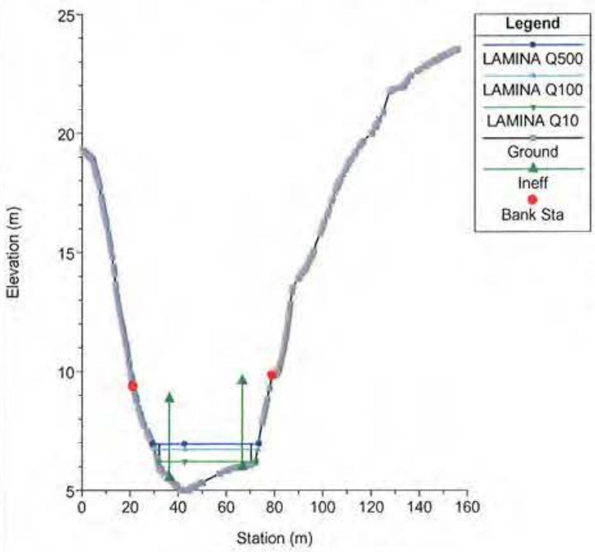
COMES Plan: COMES
River = Comes Reach = Tot RS = 454.629*



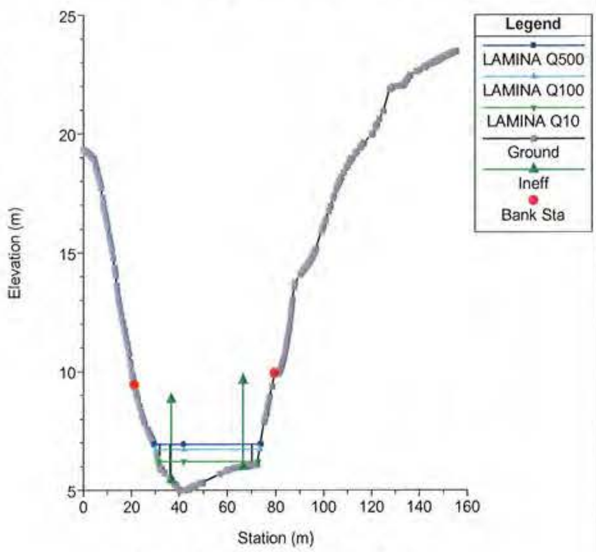
COMES Plan: COMES
River = Comes Reach = Tot RS = 453.698*



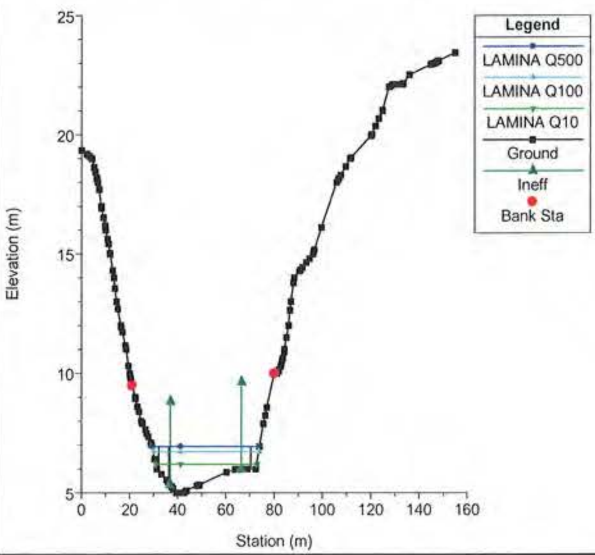
COMES Plan: COMES
River = Comes Reach = Tot RS = 452.767*



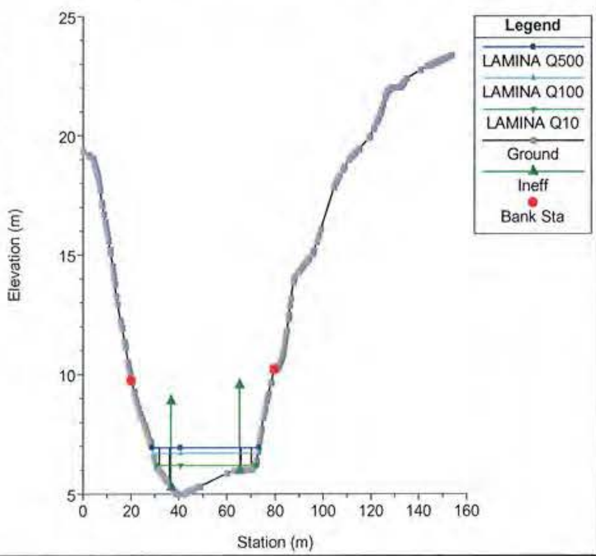
COMES Plan: COMES
River = Comes Reach = Tot RS = 451.836*

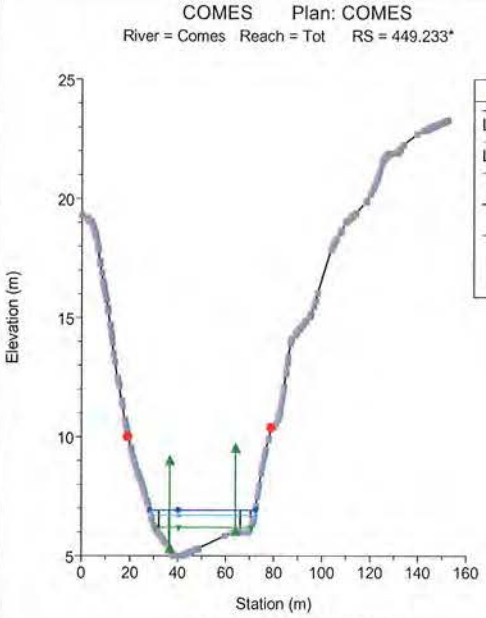


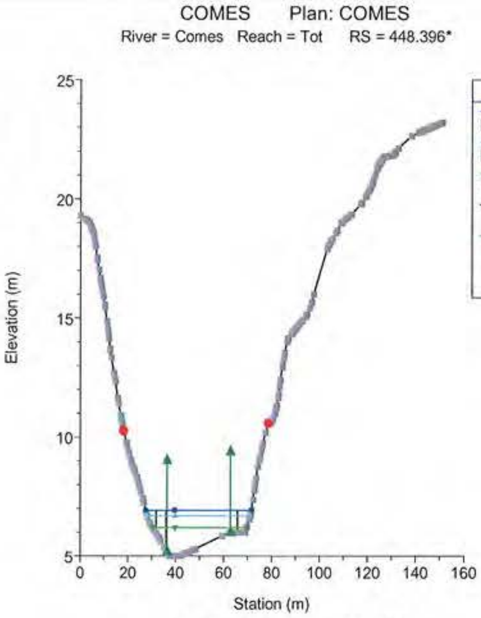
COMES Plan: COMES
River = Comes Reach = Tot RS = 450.906

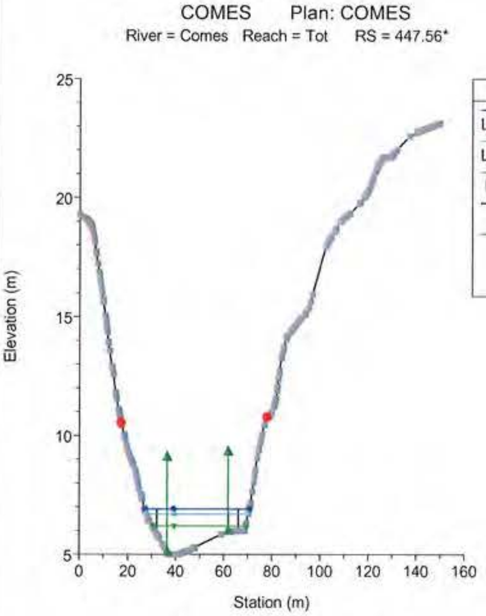


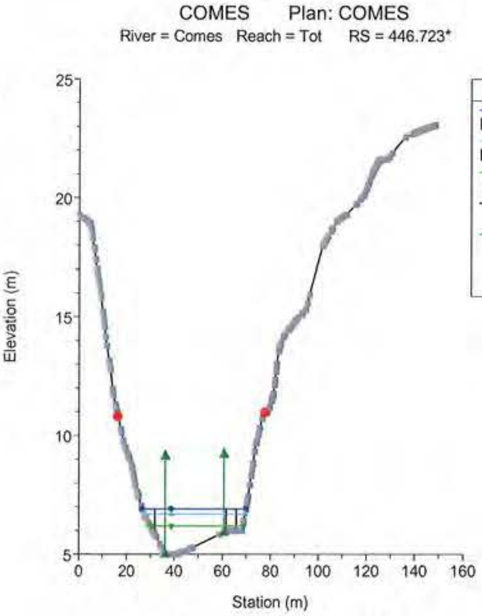
COMES Plan: COMES
River = Comes Reach = Tot RS = 450.069*

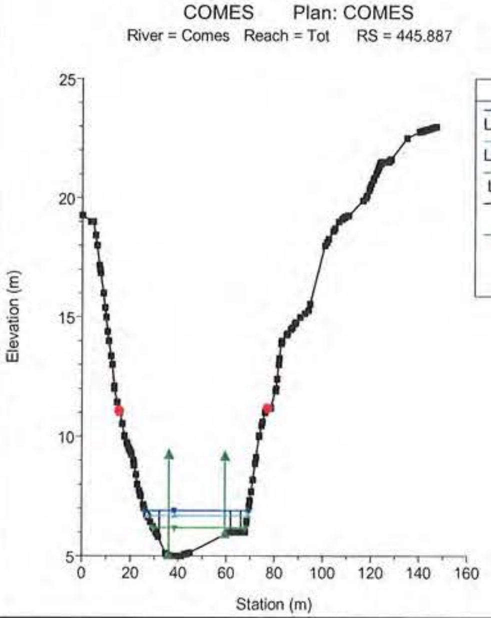


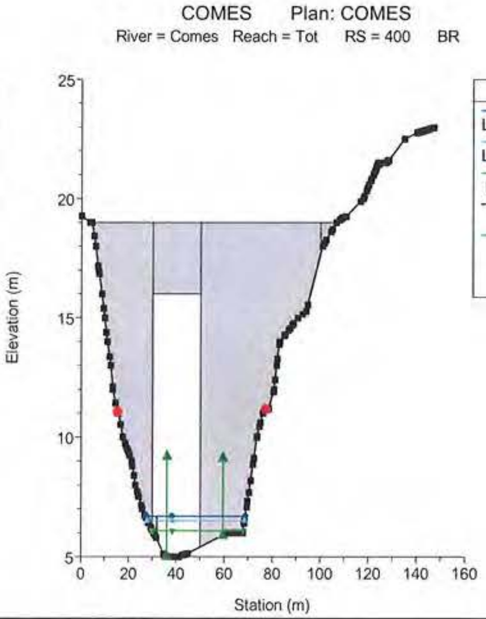

COMES Plan: COMES
River = Comes Reach = Tot RS = 449.233*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

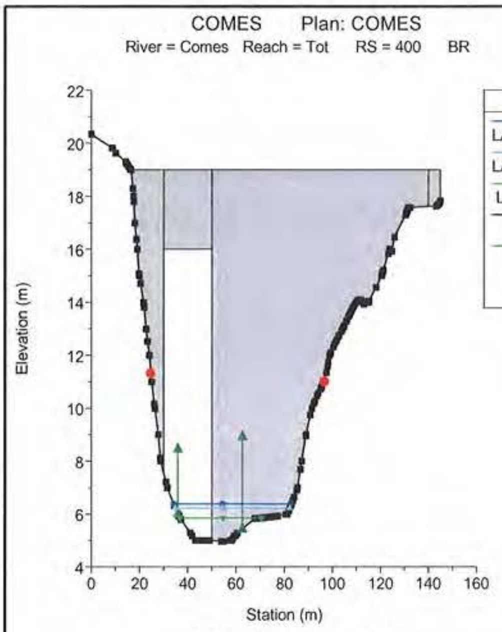

COMES Plan: COMES
River = Comes Reach = Tot RS = 448.396*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

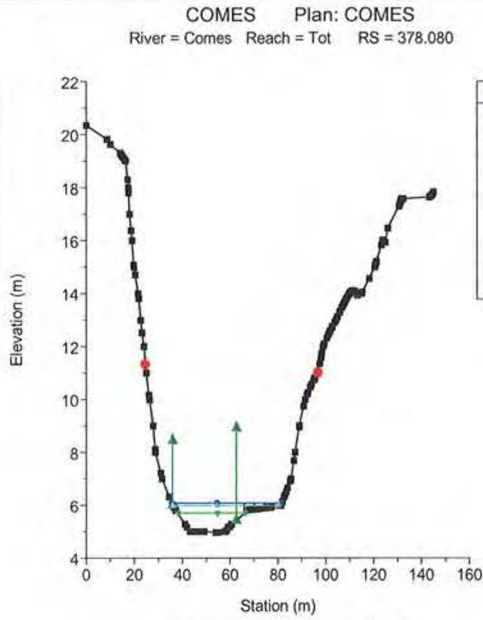

COMES Plan: COMES
River = Comes Reach = Tot RS = 447.56*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

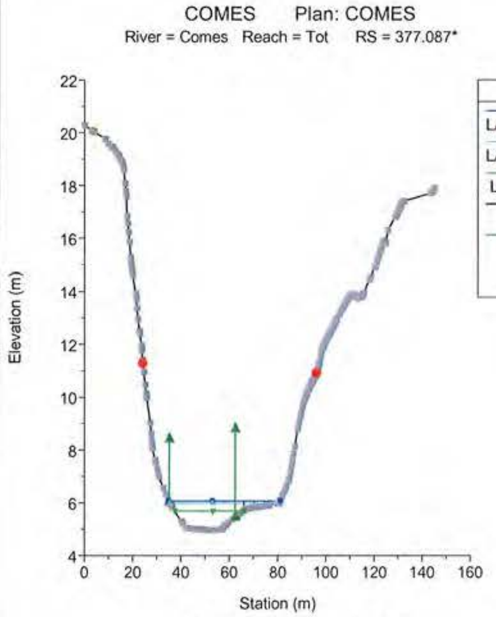

COMES Plan: COMES
River = Comes Reach = Tot RS = 446.723*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

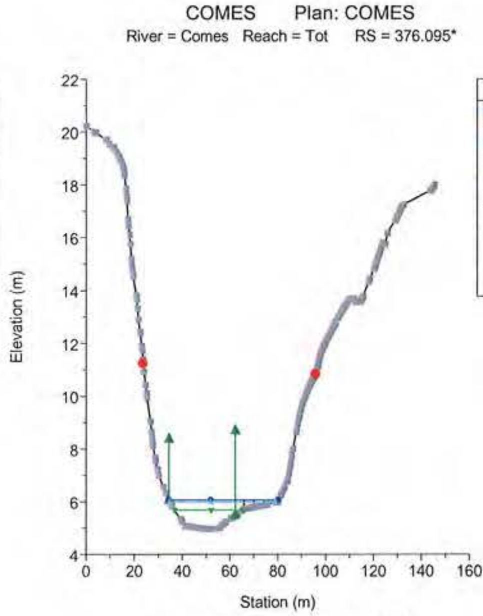

COMES Plan: COMES
River = Comes Reach = Tot RS = 445.887
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

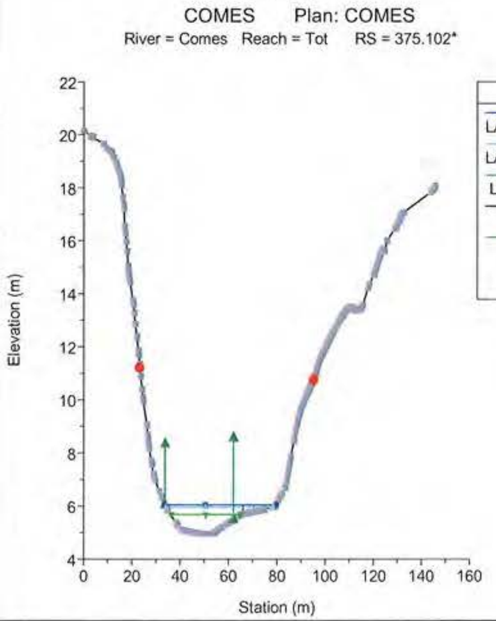

COMES Plan: COMES
River = Comes Reach = Tot RS = 400 BR
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

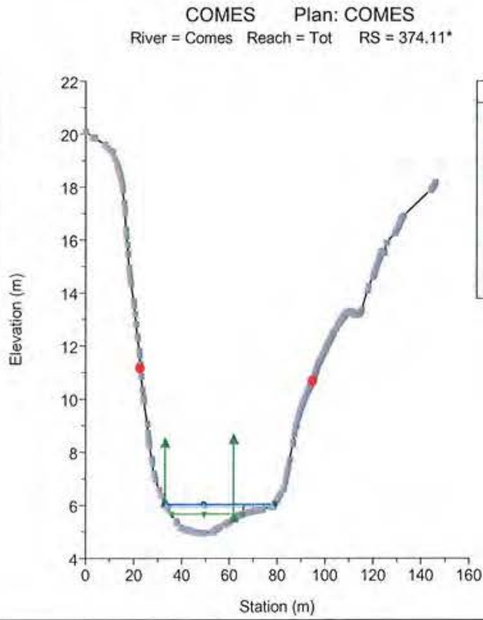

COMES Plan: COMES
River = Comes Reach = Tot RS = 400 BR
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 378.080
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

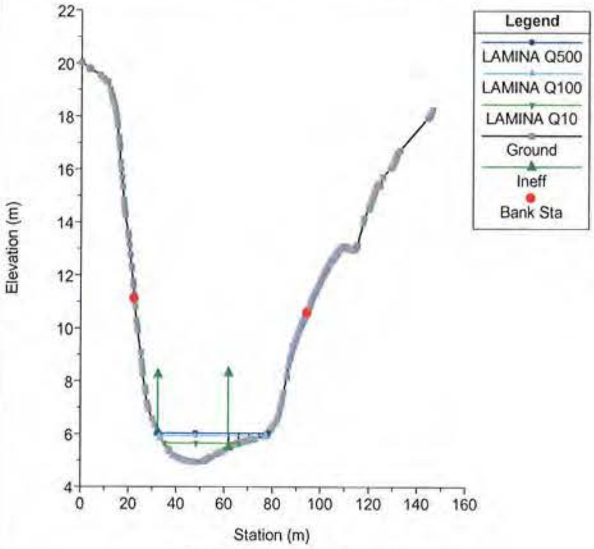

COMES Plan: COMES
River = Comes Reach = Tot RS = 377.087*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 376.095*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

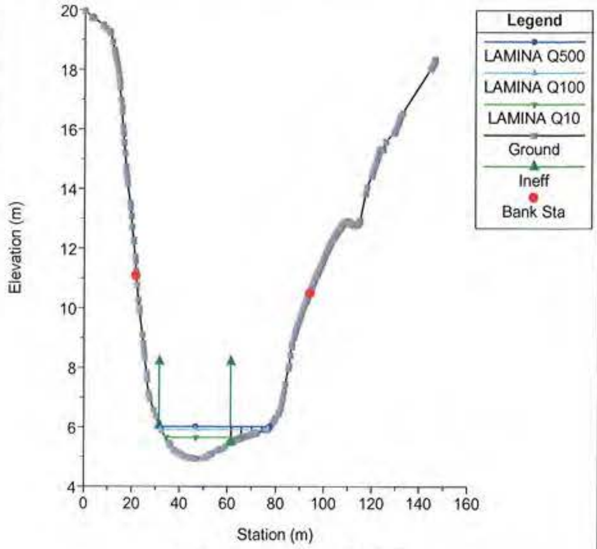

COMES Plan: COMES
River = Comes Reach = Tot RS = 375.102*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 374.11*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

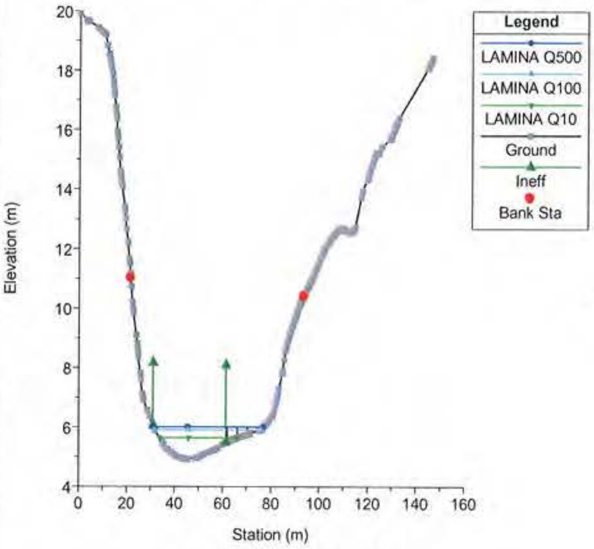
COMES Plan: COMES
River = Comes Reach = Tot RS = 373.117*



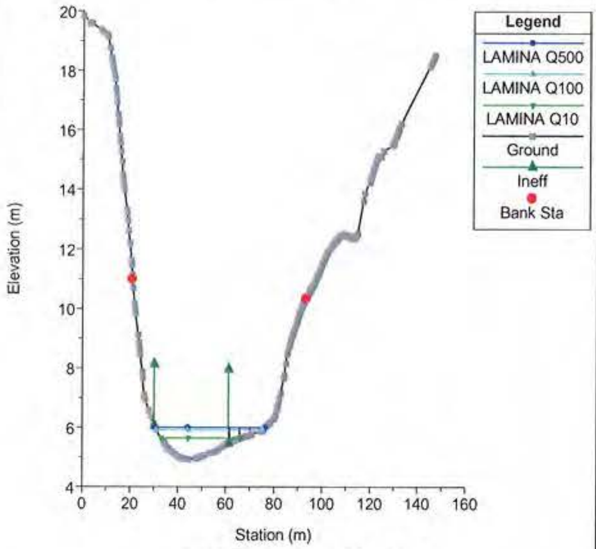
COMES Plan: COMES
River = Comes Reach = Tot RS = 372.125*



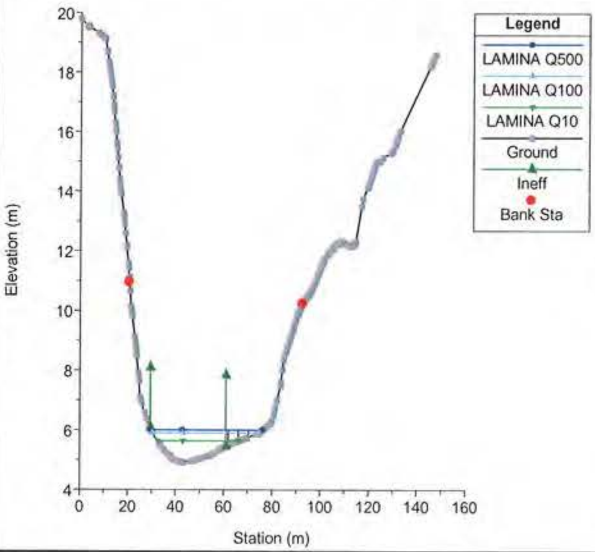
COMES Plan: COMES
River = Comes Reach = Tot RS = 371.132*



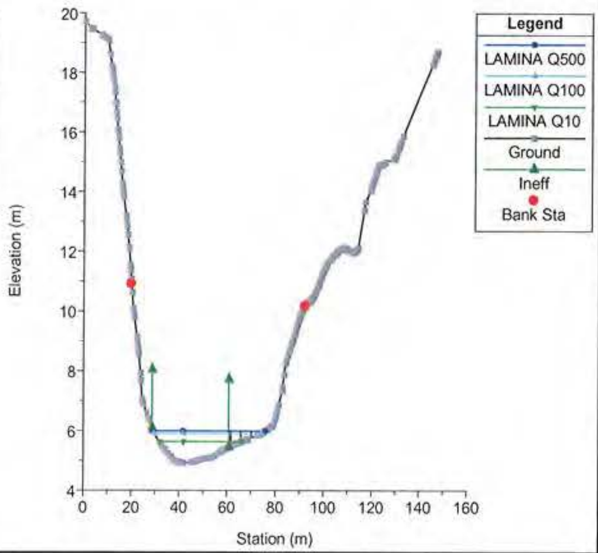
COMES Plan: COMES
River = Comes Reach = Tot RS = 370.14*



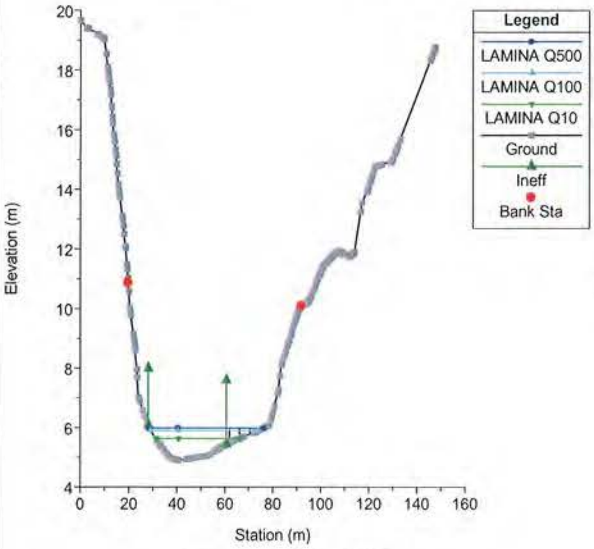
COMES Plan: COMES
River = Comes Reach = Tot RS = 369.147*



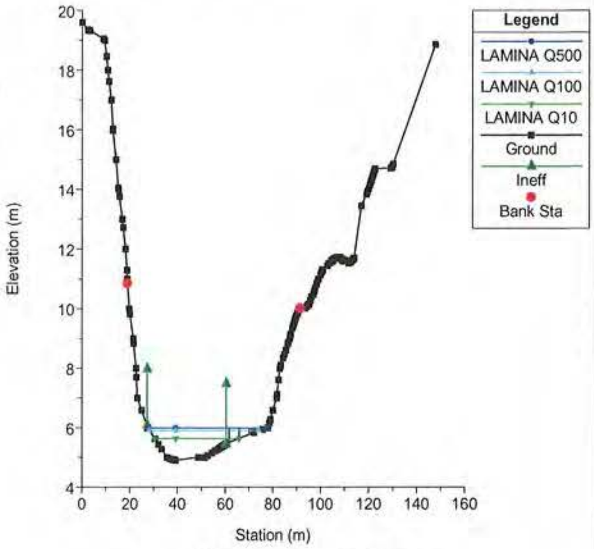
COMES Plan: COMES
River = Comes Reach = Tot RS = 368.155*



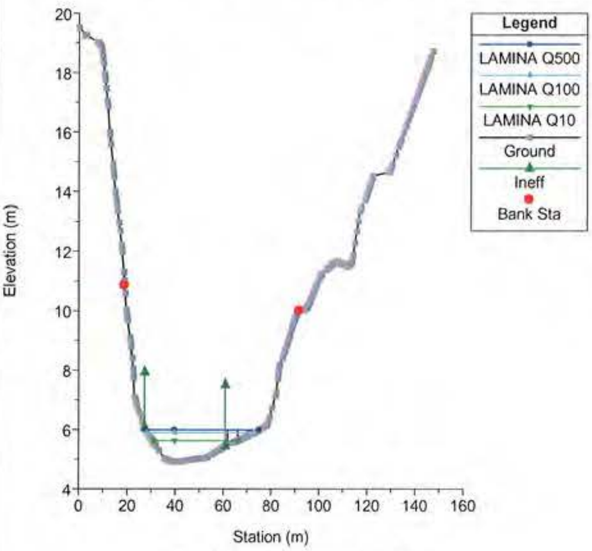
COMES Plan: COMES
River = Comes Reach = Tot RS = 367.162*



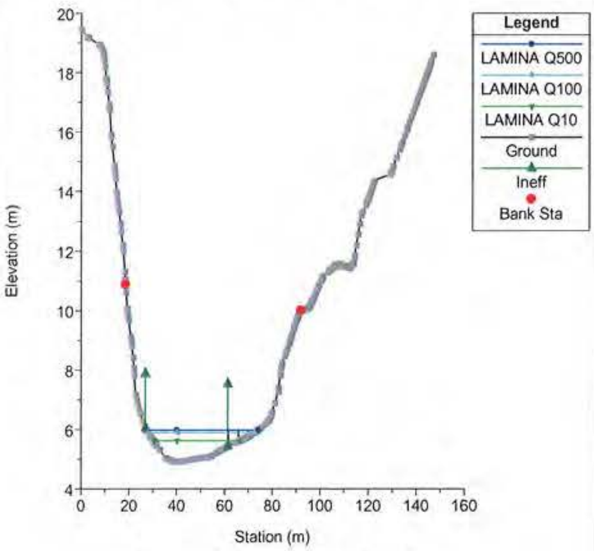
COMES Plan: COMES
River = Comes Reach = Tot RS = 366.170



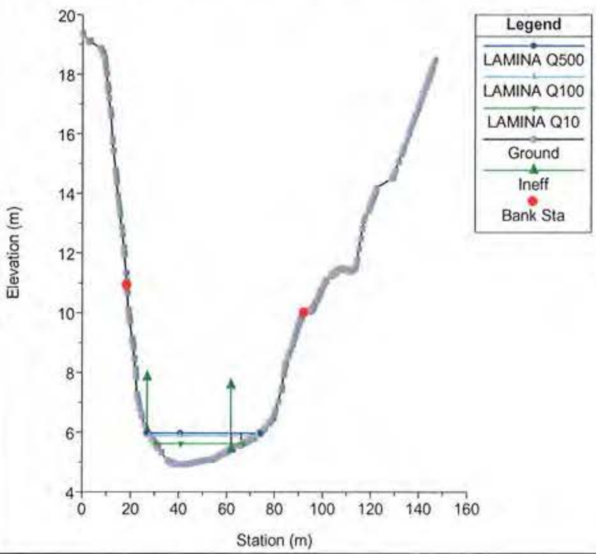
COMES Plan: COMES
River = Comes Reach = Tot RS = 365.197*



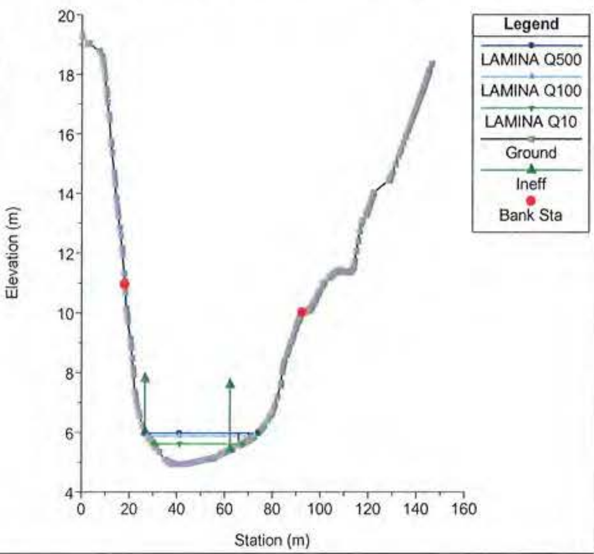
COMES Plan: COMES
River = Comes Reach = Tot RS = 364.225*

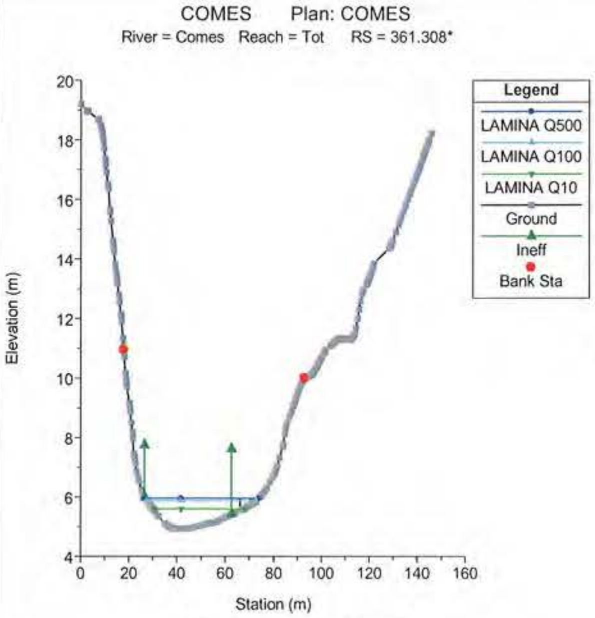


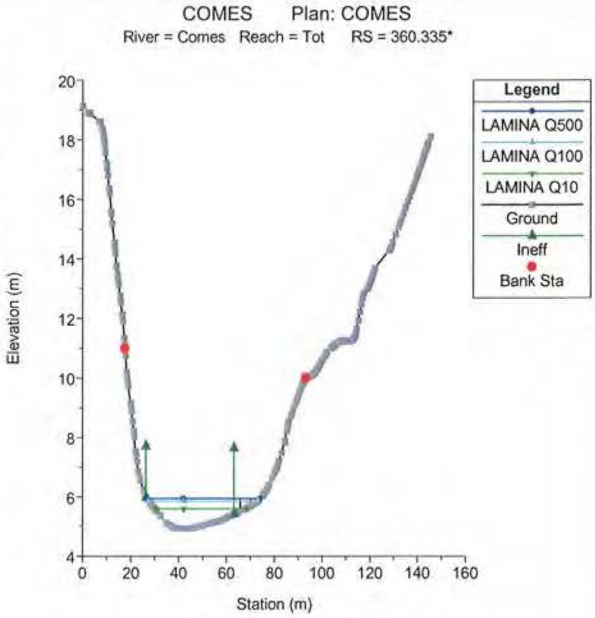
COMES Plan: COMES
River = Comes Reach = Tot RS = 363.252*

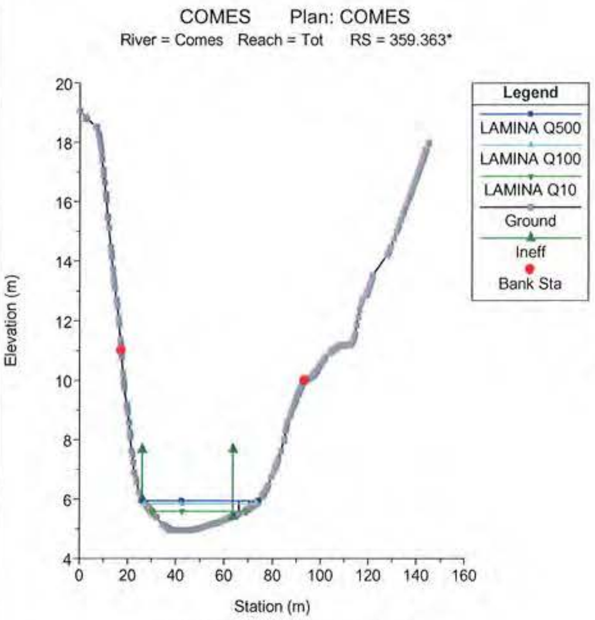


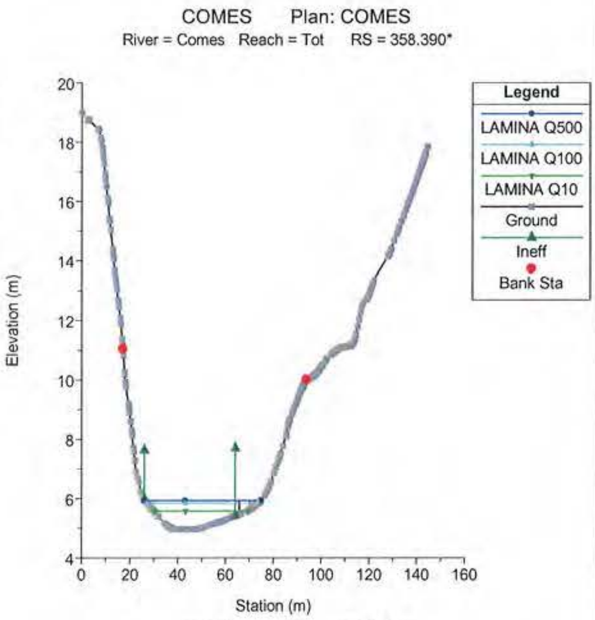
COMES Plan: COMES
River = Comes Reach = Tot RS = 362.280*

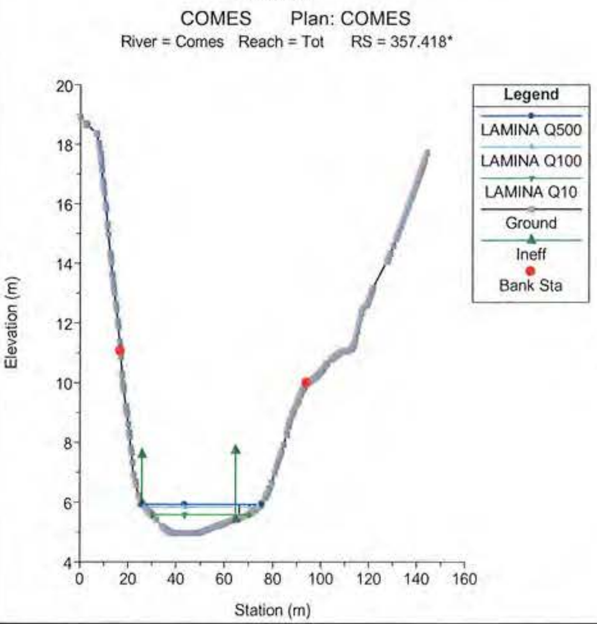


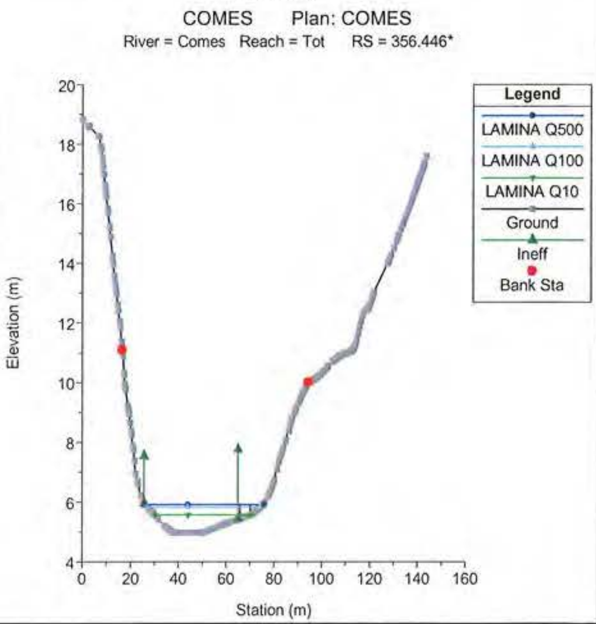

COMES Plan: COMES
River = Comes Reach = Tot RS = 361.308*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

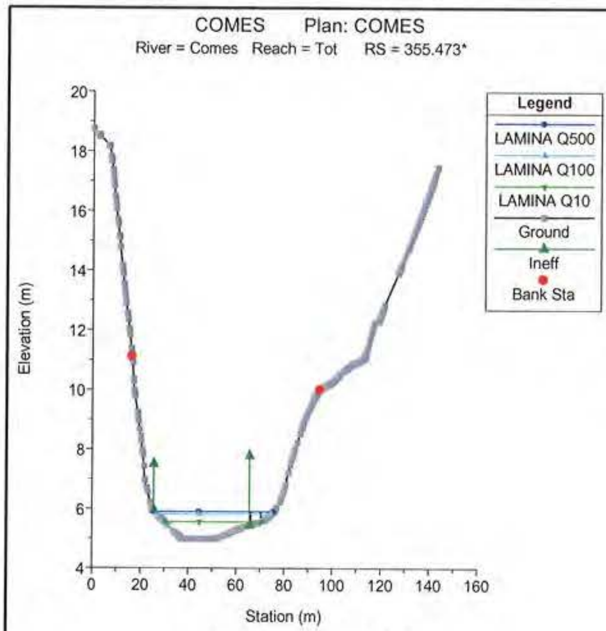

COMES Plan: COMES
River = Comes Reach = Tot RS = 360.335*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

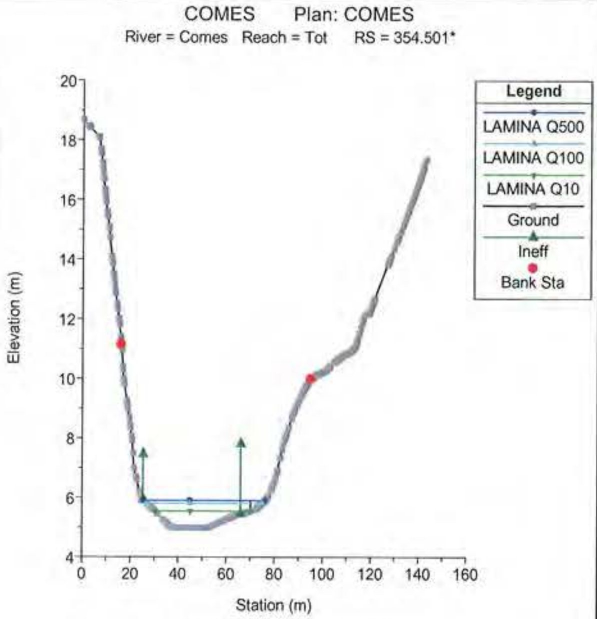

COMES Plan: COMES
River = Comes Reach = Tot RS = 359.363*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

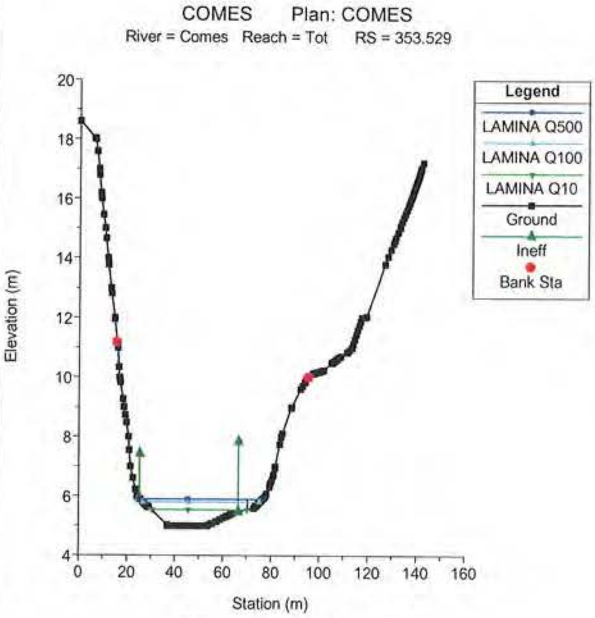

COMES Plan: COMES
River = Comes Reach = Tot RS = 358.390*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

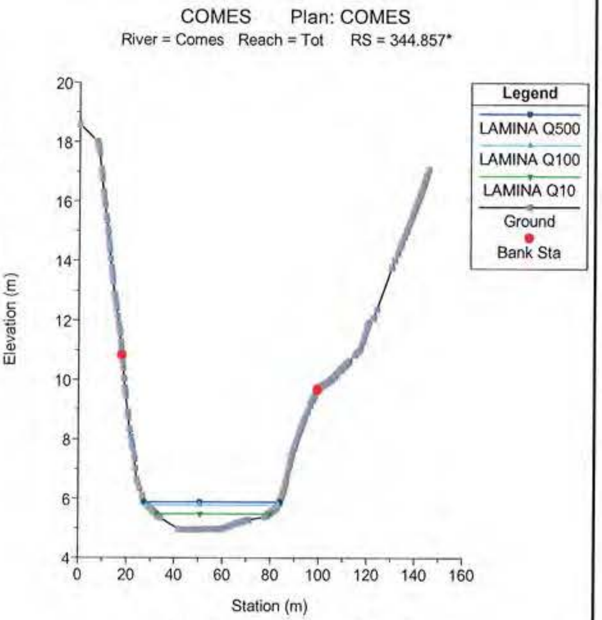

COMES Plan: COMES
River = Comes Reach = Tot RS = 357.418*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

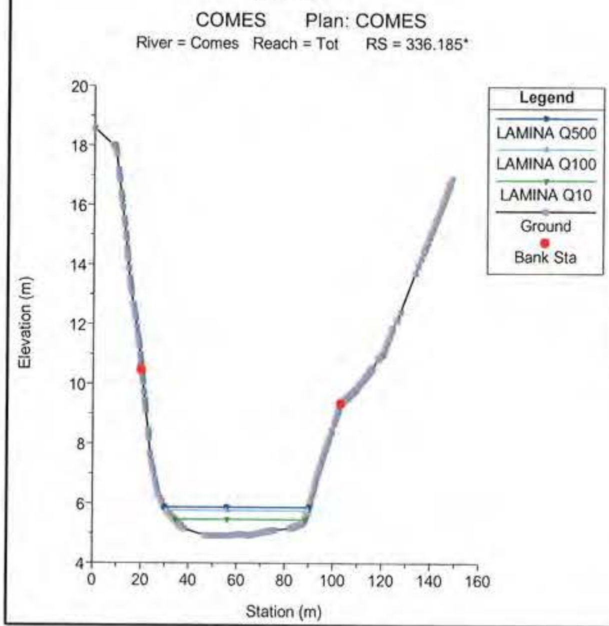

COMES Plan: COMES
River = Comes Reach = Tot RS = 356.446*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

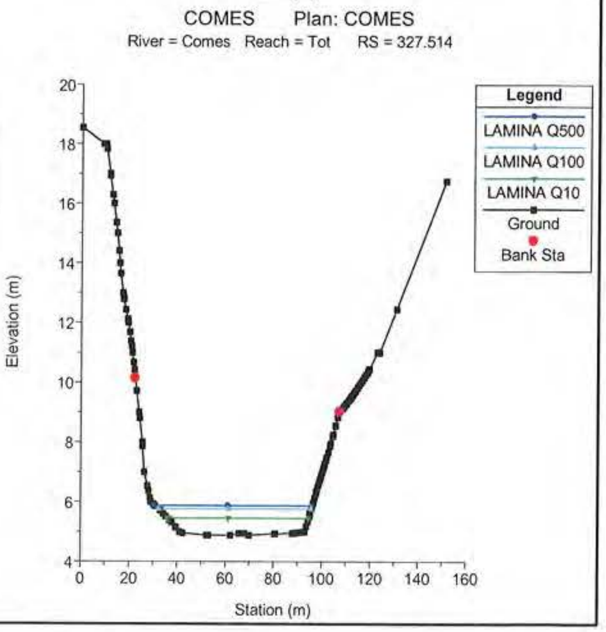

COMES Plan: COMES
River = Comes Reach = Tot RS = 355.473*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

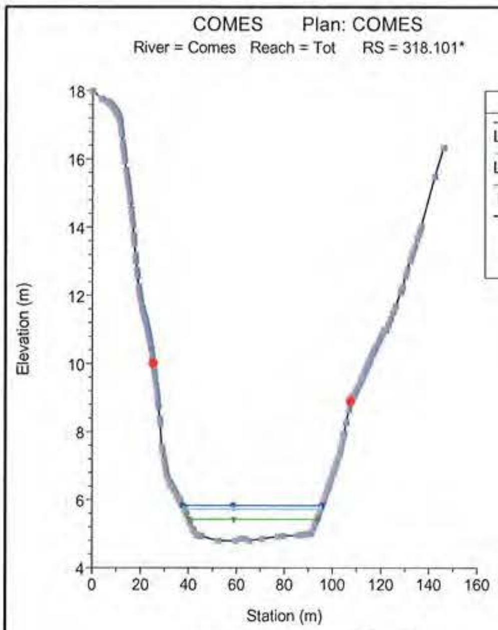

COMES Plan: COMES
River = Comes Reach = Tot RS = 354.501*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

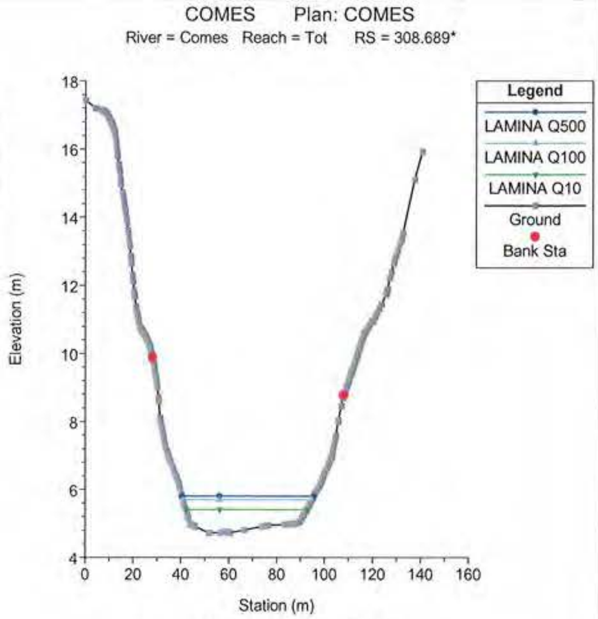

COMES Plan: COMES
River = Comes Reach = Tot RS = 353.529
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

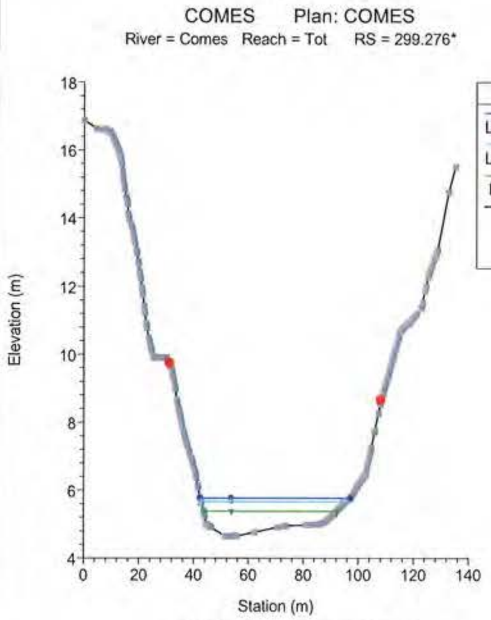

COMES Plan: COMES
River = Comes Reach = Tot RS = 344.857*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

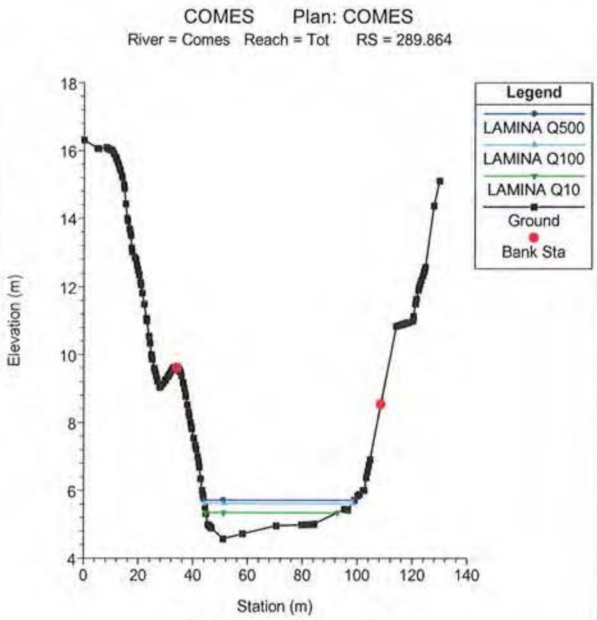

COMES Plan: COMES
River = Comes Reach = Tot RS = 336.185*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

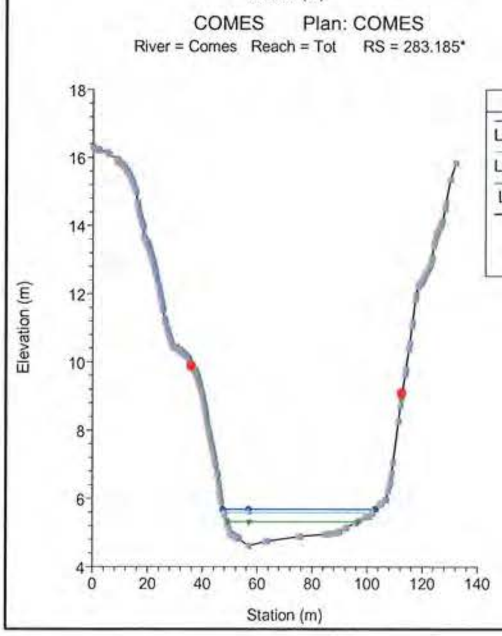

COMES Plan: COMES
River = Comes Reach = Tot RS = 327.514
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

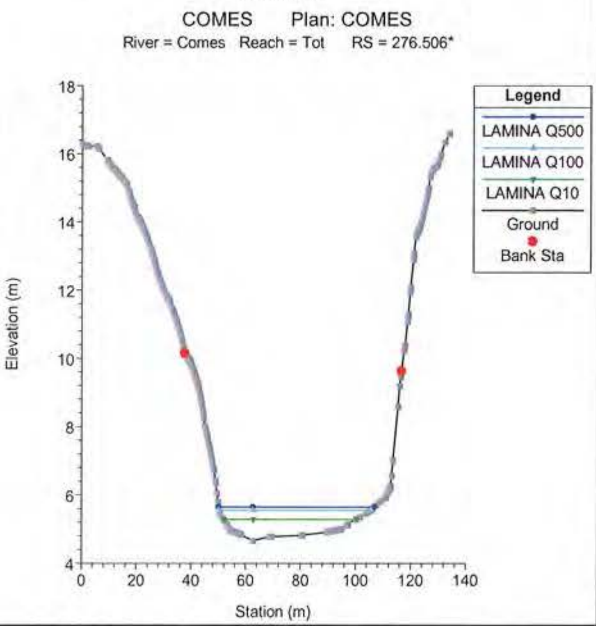

COMES Plan: COMES
River = Comes Reach = Tot RS = 318.101*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

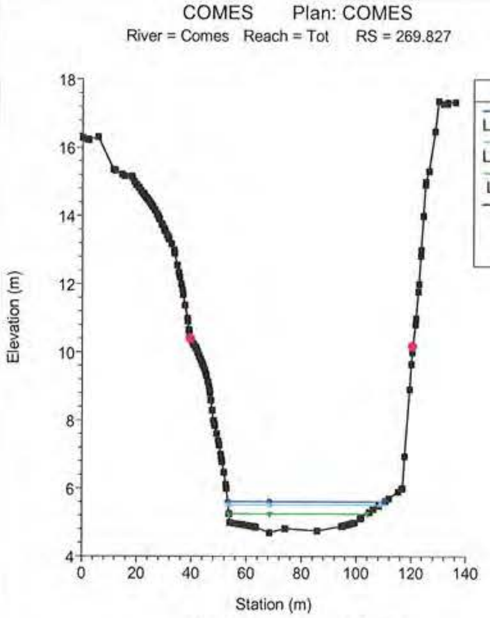

COMES Plan: COMES
River = Comes Reach = Tot RS = 308.689*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

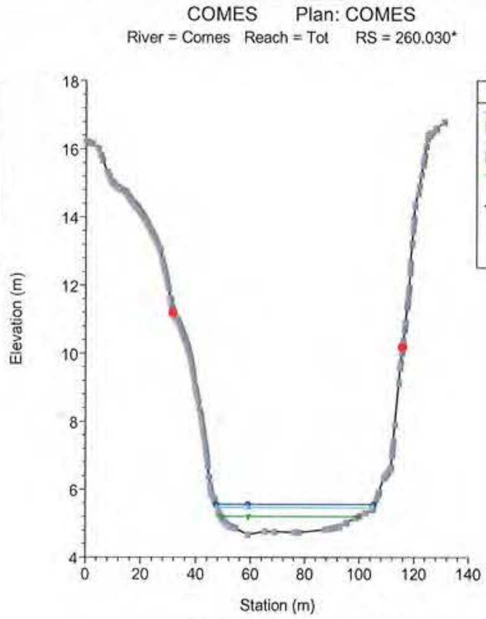

COMES Plan: COMES
River = Comes Reach = Tot RS = 299.276*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

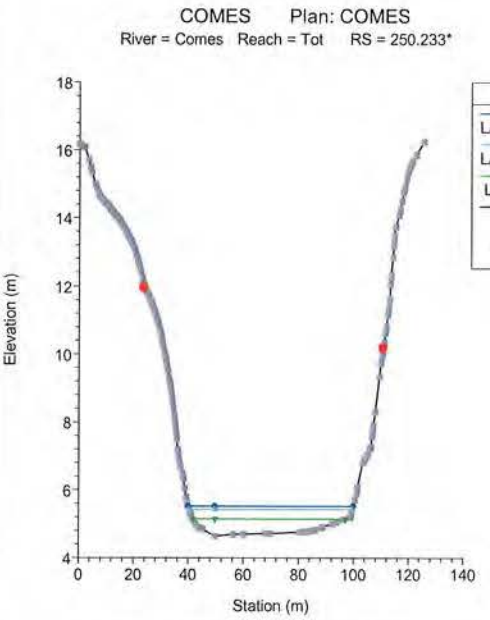

COMES Plan: COMES
River = Comes Reach = Tot RS = 289.864
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

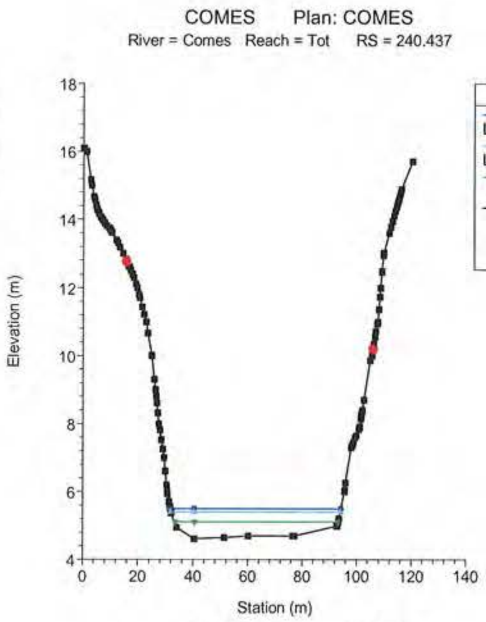

COMES Plan: COMES
River = Comes Reach = Tot RS = 283.185*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

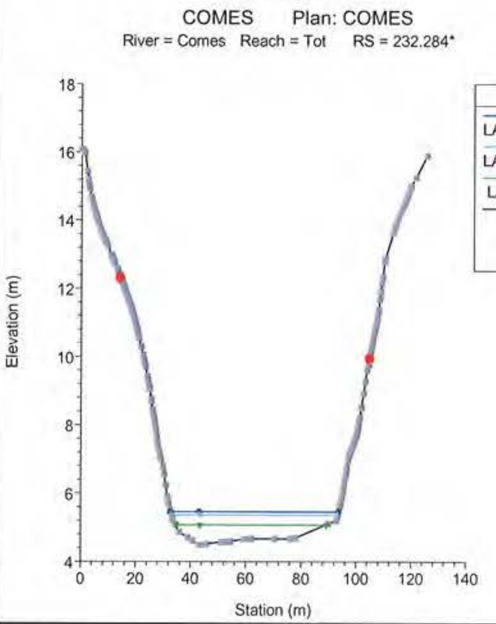

COMES Plan: COMES
River = Comes Reach = Tot RS = 276.506*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

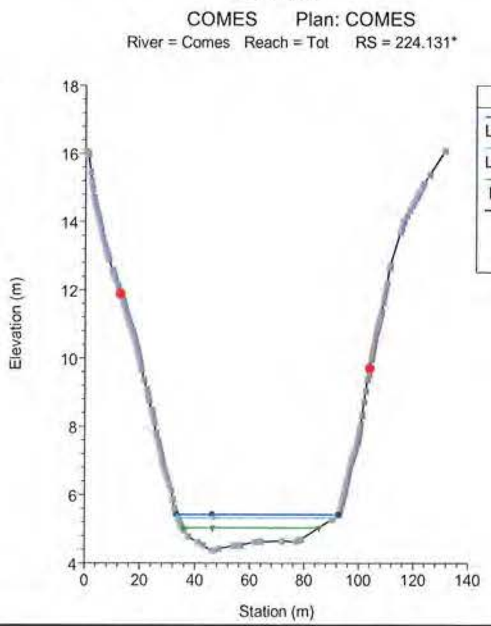

COMES Plan: COMES
River = Comes Reach = Tot RS = 269.827
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

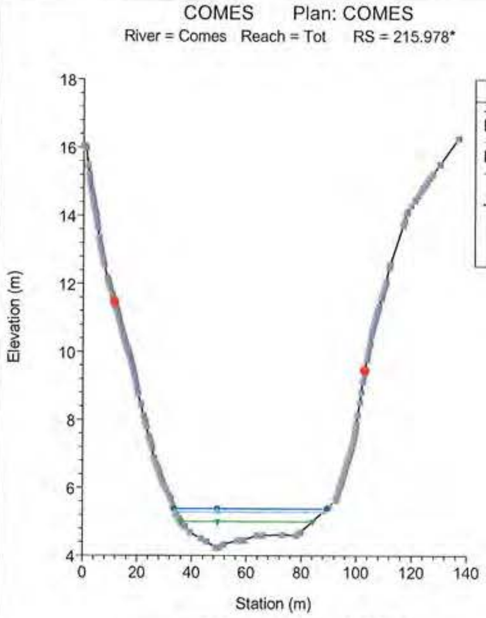

COMES Plan: COMES
River = Comes Reach = Tot RS = 260.030*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

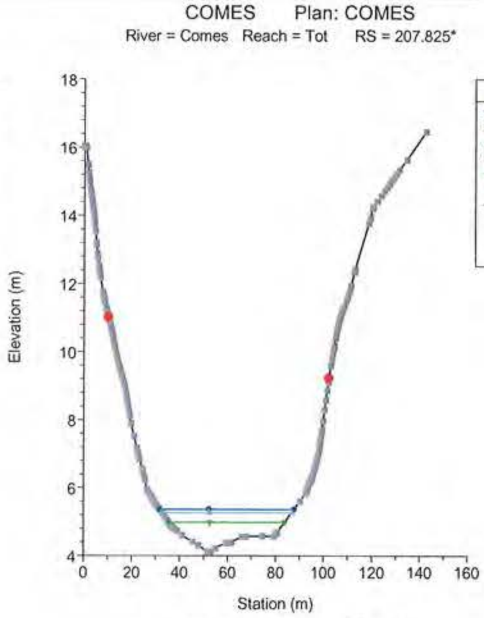

COMES Plan: COMES
River = Comes Reach = Tot RS = 250.233*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

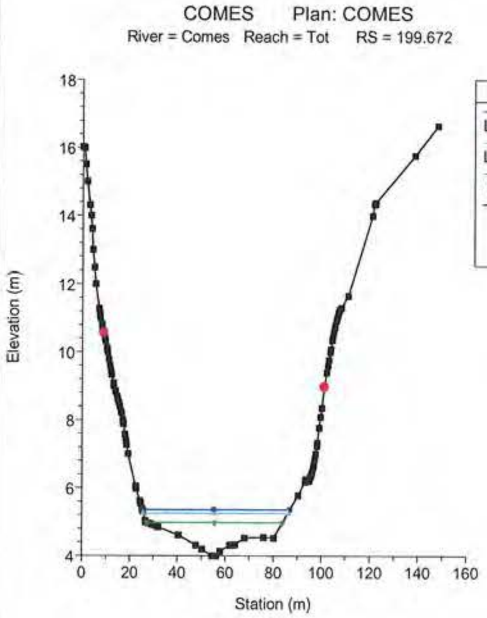

COMES Plan: COMES
River = Comes Reach = Tot RS = 240.437
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

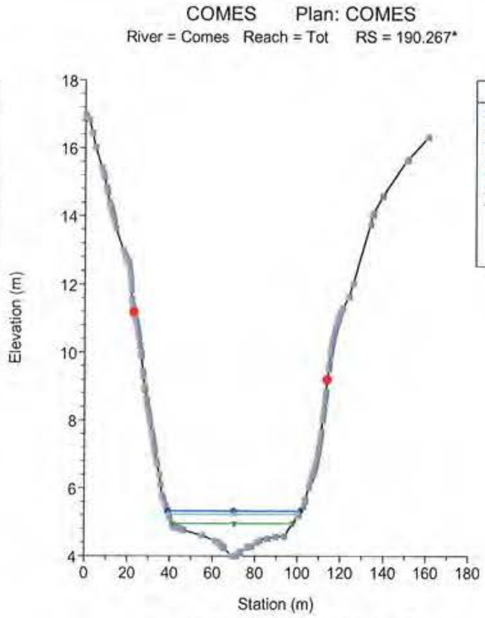

COMES Plan: COMES
River = Comes Reach = Tot RS = 232.284*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

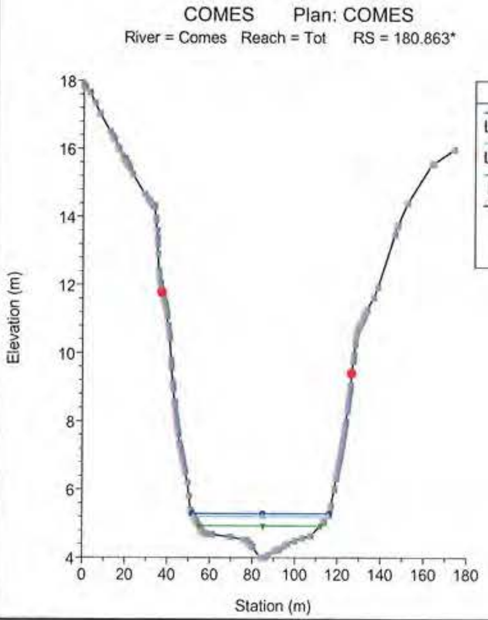

COMES Plan: COMES
River = Comes Reach = Tot RS = 224.131*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

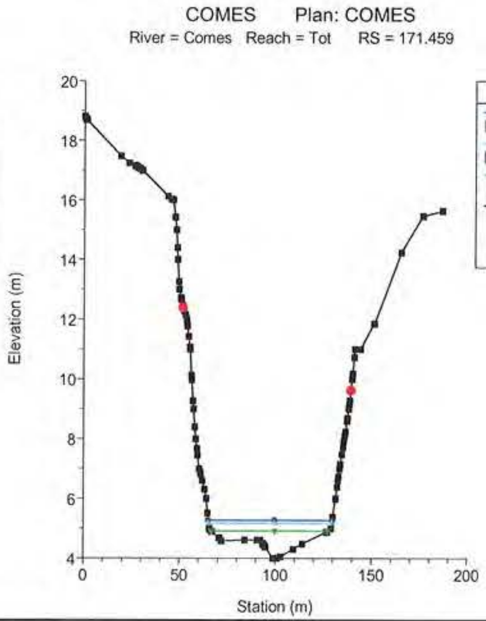

COMES Plan: COMES
River = Comes Reach = Tot RS = 215.978*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

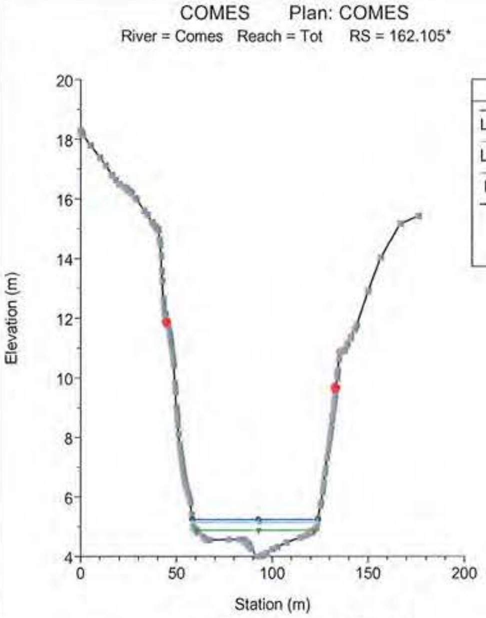

COMES Plan: COMES
River = Comes Reach = Tot RS = 207.825*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

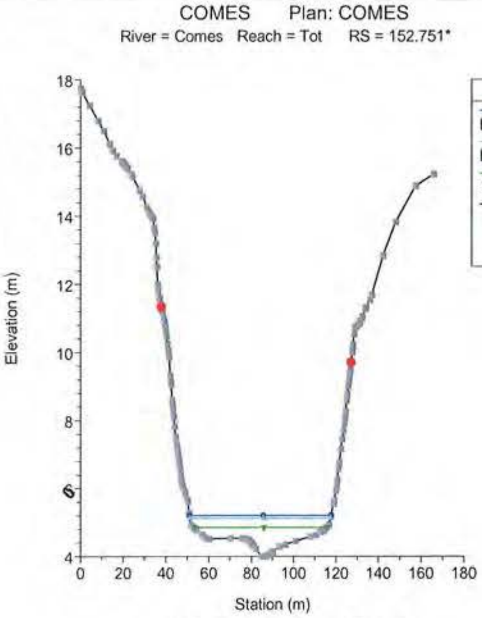

COMES Plan: COMES
River = Comes Reach = Tot RS = 199.672
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

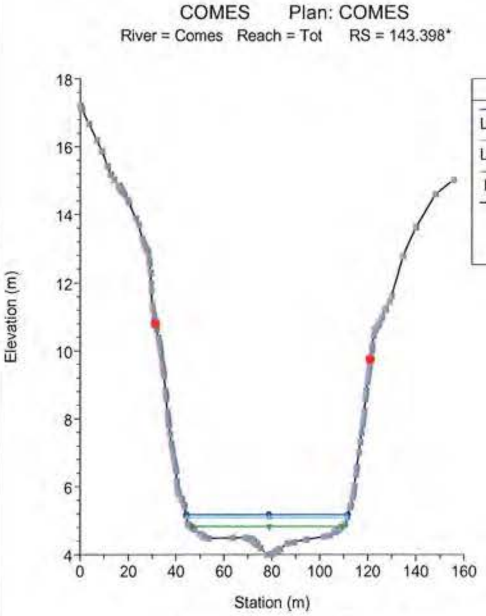

COMES Plan: COMES
River = Comes Reach = Tot RS = 190.267*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

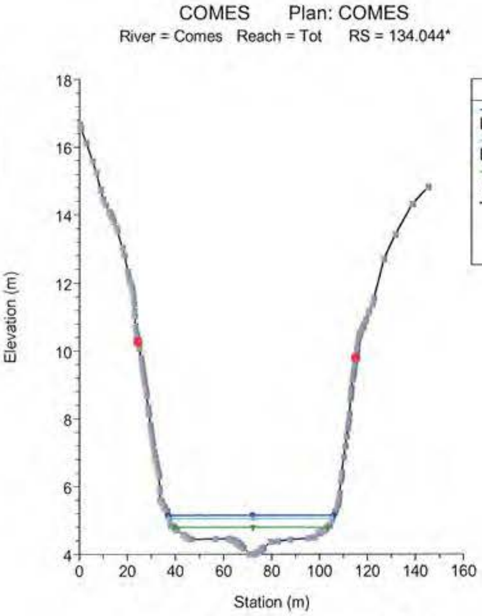

COMES Plan: COMES
River = Comes Reach = Tot RS = 180.863*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

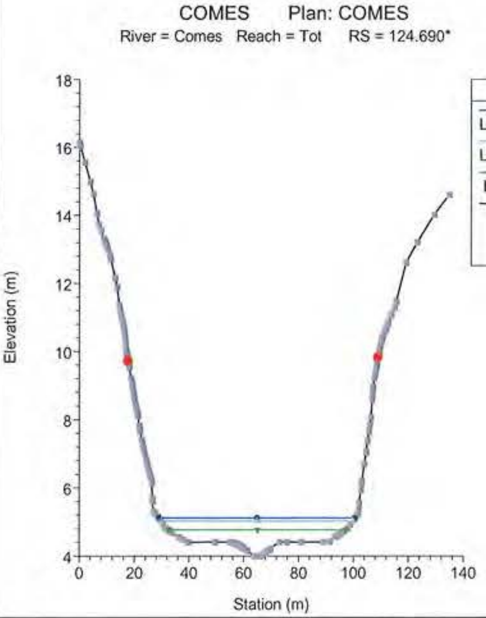

COMES Plan: COMES
River = Comes Reach = Tot RS = 171.459
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

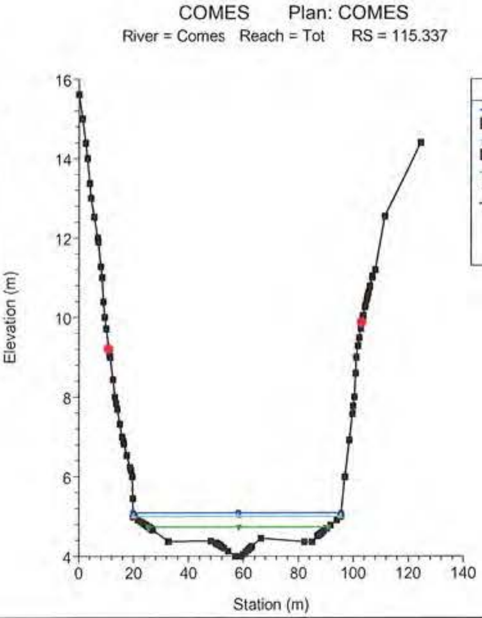

COMES Plan: COMES
River = Comes Reach = Tot RS = 162.105*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

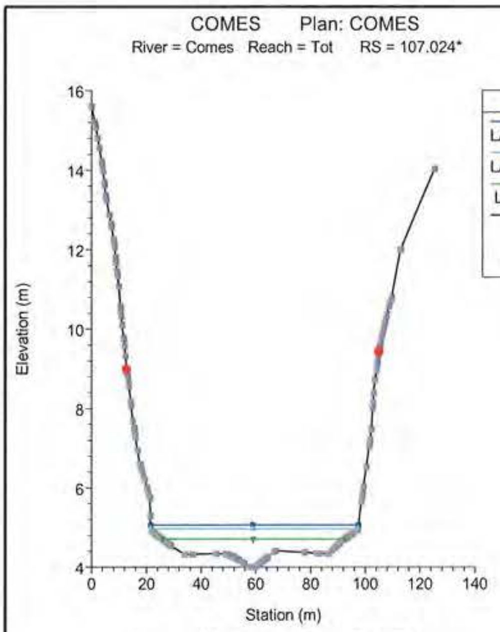

COMES Plan: COMES
River = Comes Reach = Tot RS = 152.751*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

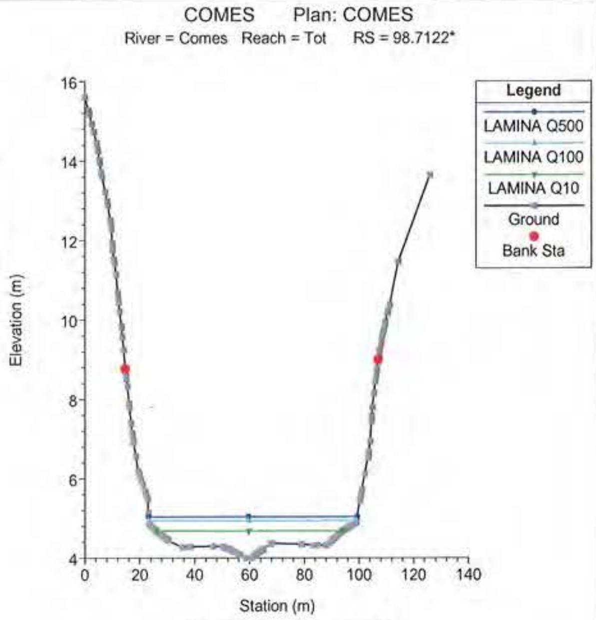

COMES Plan: COMES
River = Comes Reach = Tot RS = 143.398*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

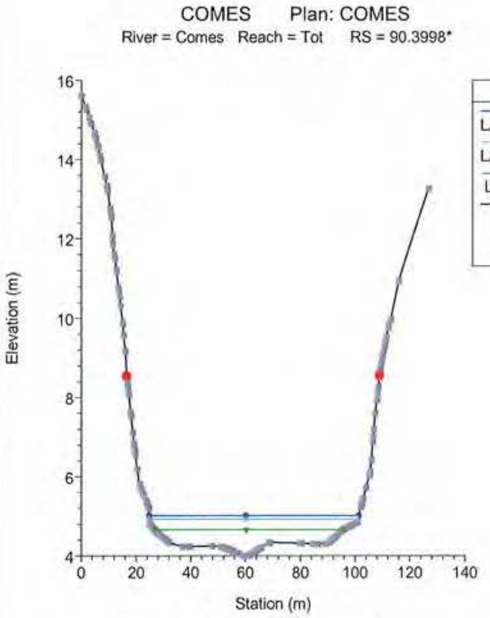

COMES Plan: COMES
River = Comes Reach = Tot RS = 134.044*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

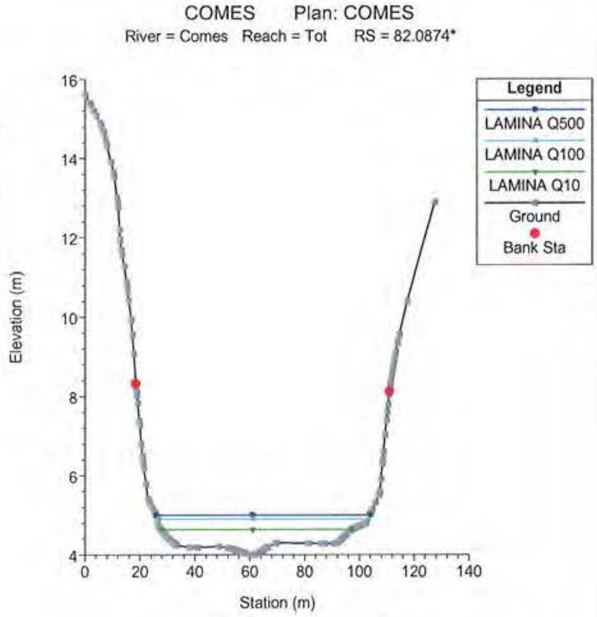

COMES Plan: COMES
River = Comes Reach = Tot RS = 124.690*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

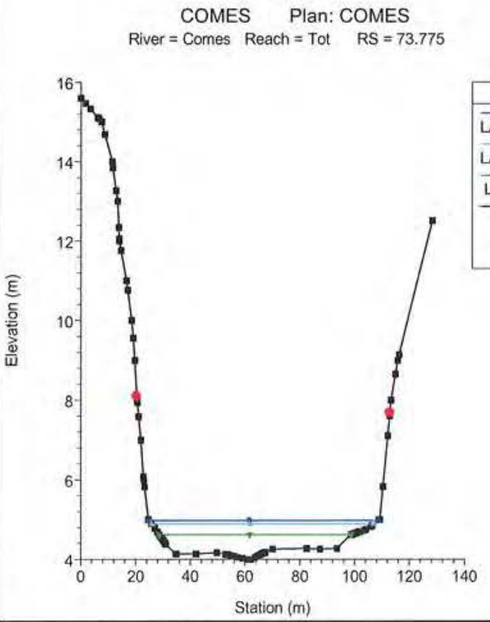

COMES Plan: COMES
River = Comes Reach = Tot RS = 115.337
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

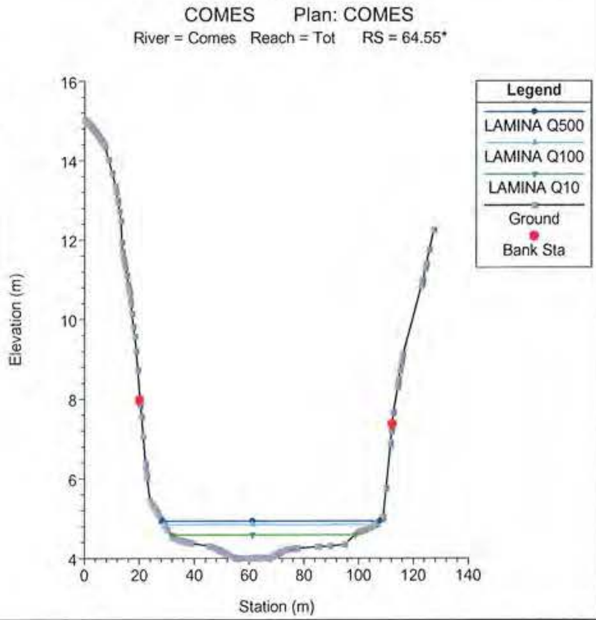

COMES Plan: COMES
River = Comes Reach = Tot RS = 107.024*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

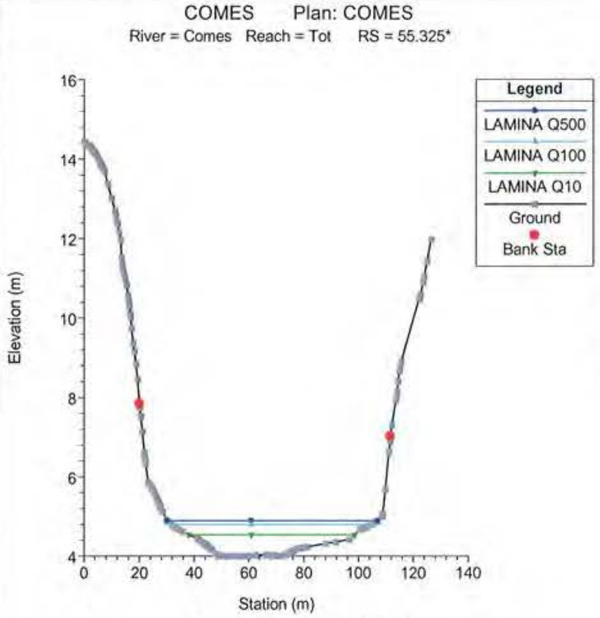

COMES Plan: COMES
River = Comes Reach = Tot RS = 98.7122*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

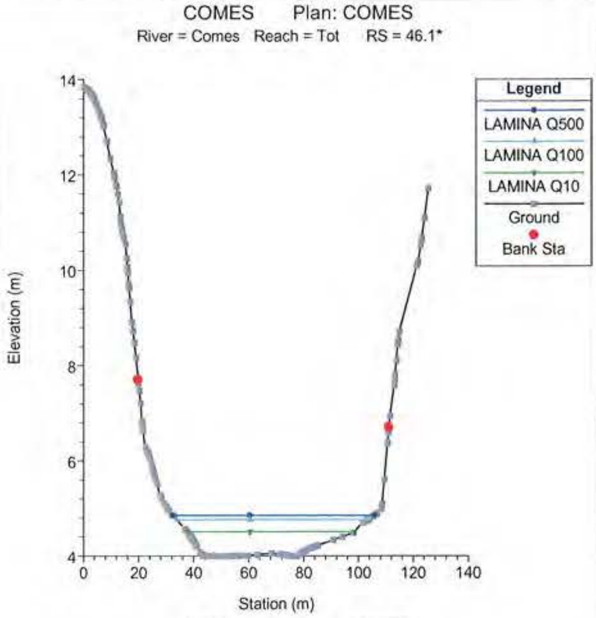

COMES Plan: COMES
River = Comes Reach = Tot RS = 90.3998*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

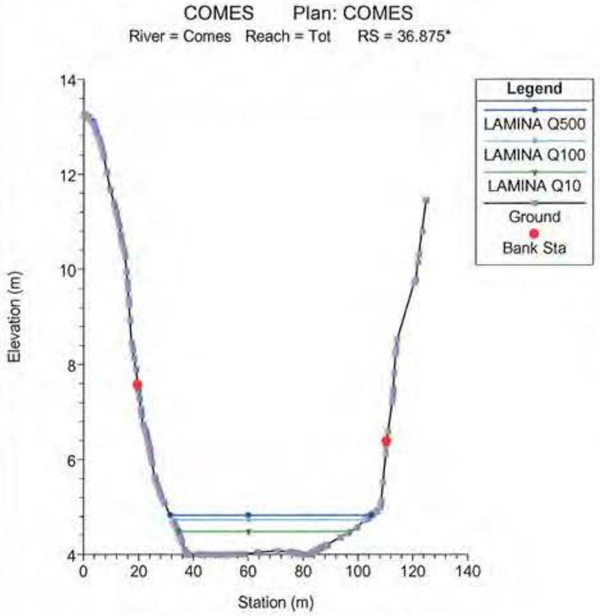

COMES Plan: COMES
River = Comes Reach = Tot RS = 82.0874*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

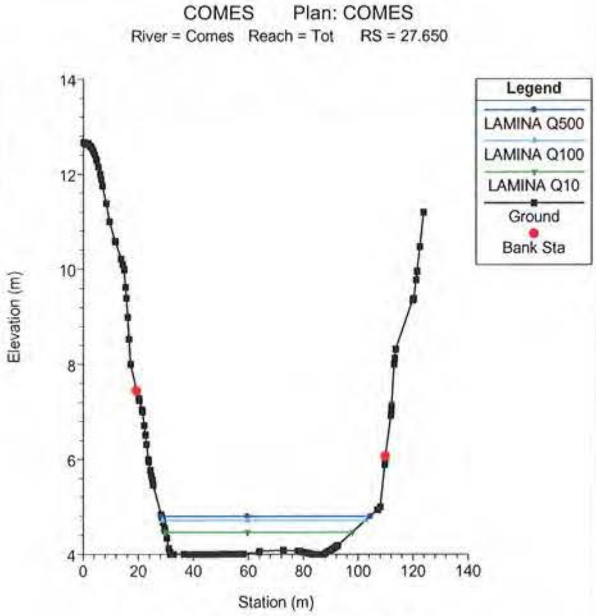

COMES Plan: COMES
River = Comes Reach = Tot RS = 73.775
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

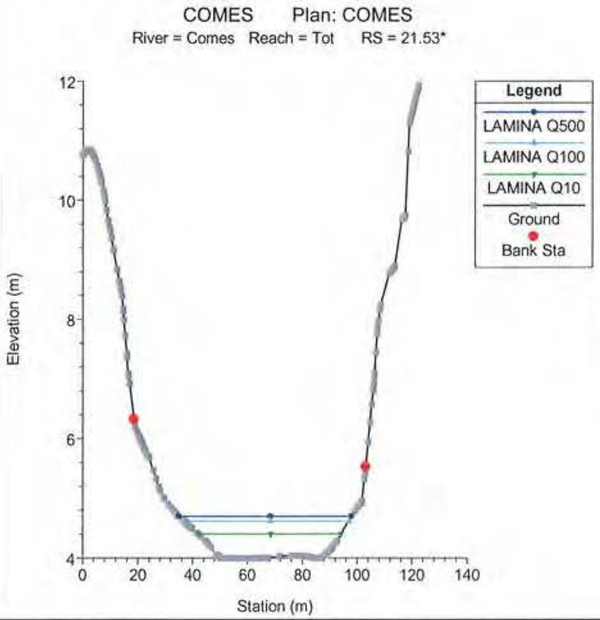

COMES Plan: COMES
River = Comes Reach = Tot RS = 64.55*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

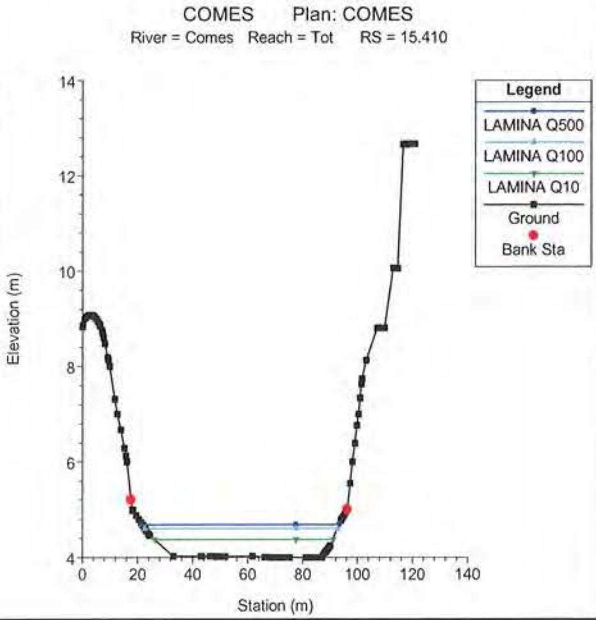

COMES Plan: COMES
River = Comes Reach = Tot RS = 55.325*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 46.1*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

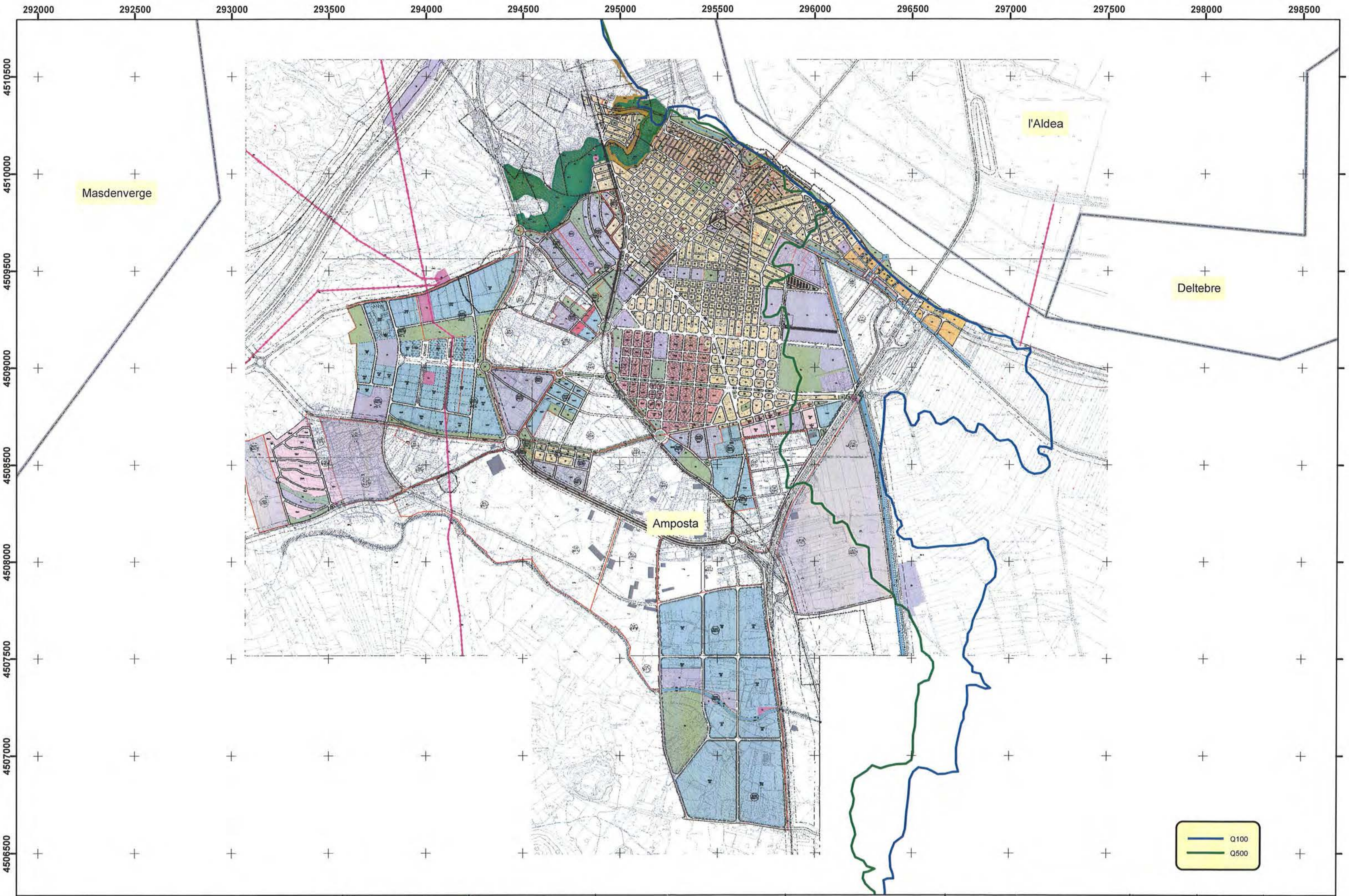

COMES Plan: COMES
River = Comes Reach = Tot RS = 36.875*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 27.650
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

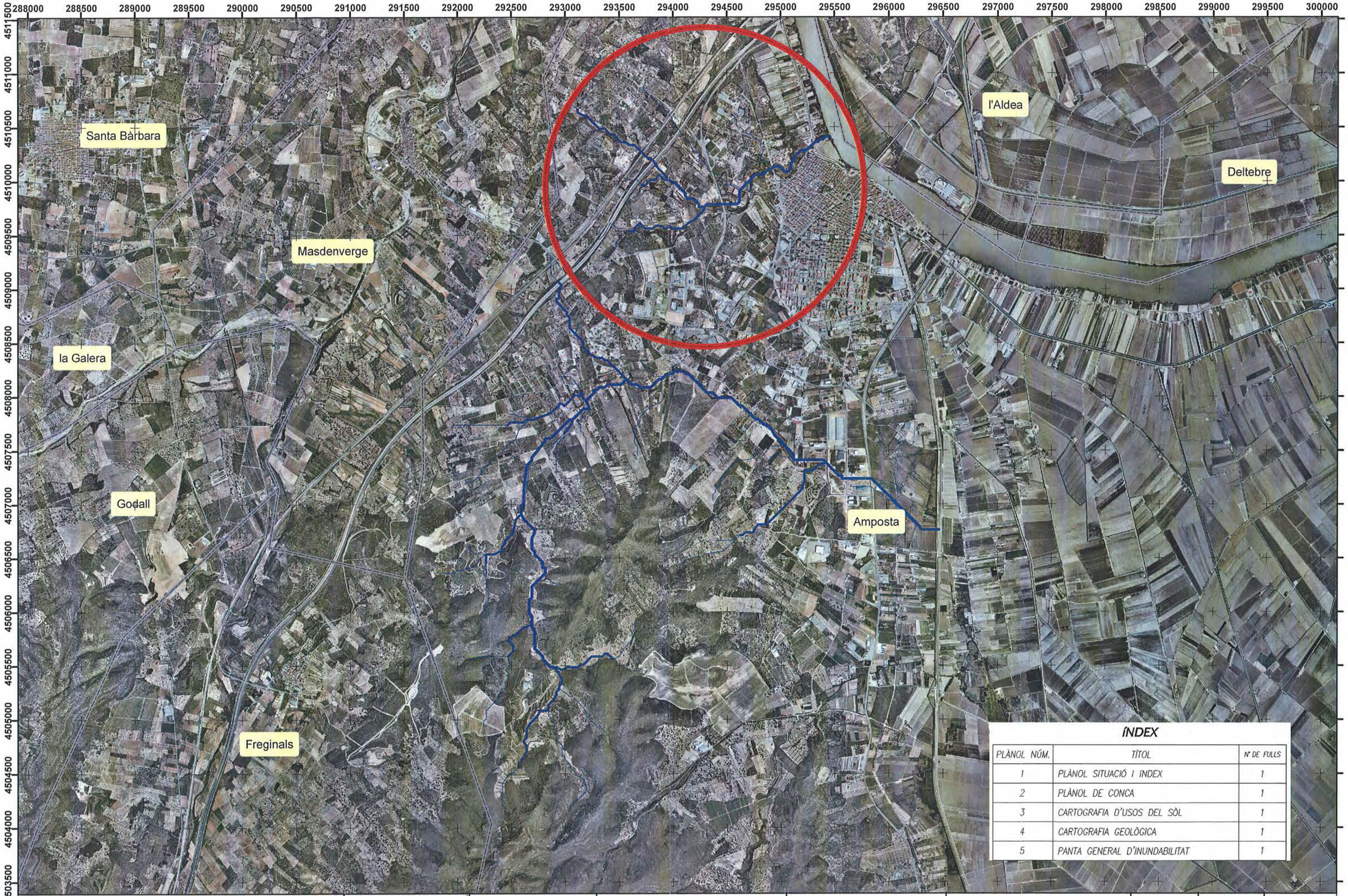

COMES Plan: COMES
River = Comes Reach = Tot RS = 21.53*
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)


COMES Plan: COMES
River = Comes Reach = Tot RS = 15.410
Legend
LAMINA Q500
LAMINA Q100
LAMINA Q10
Ground
Bank Sta
Elevation (m)
Station (m)

PLÀNOLS



AJUNTAMENT D'AMPOSTA	**L'enginyer autor del projecte:** Domingo Montserrat i Pitarch Col.legiat Num: 10.226	**L'Empresa Consultora:** TCC	**Títol de l'Estudi:** Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	**Escala:** 0 250 500 M.	**Títol del Plànol:** PLANTA GENERAL LÍMIT INUNDABLE DE L'EBRE	**Ref:** Ebre	**Data:** Novembre 2006	**Plànol Num:** 1 Full 1 de 1



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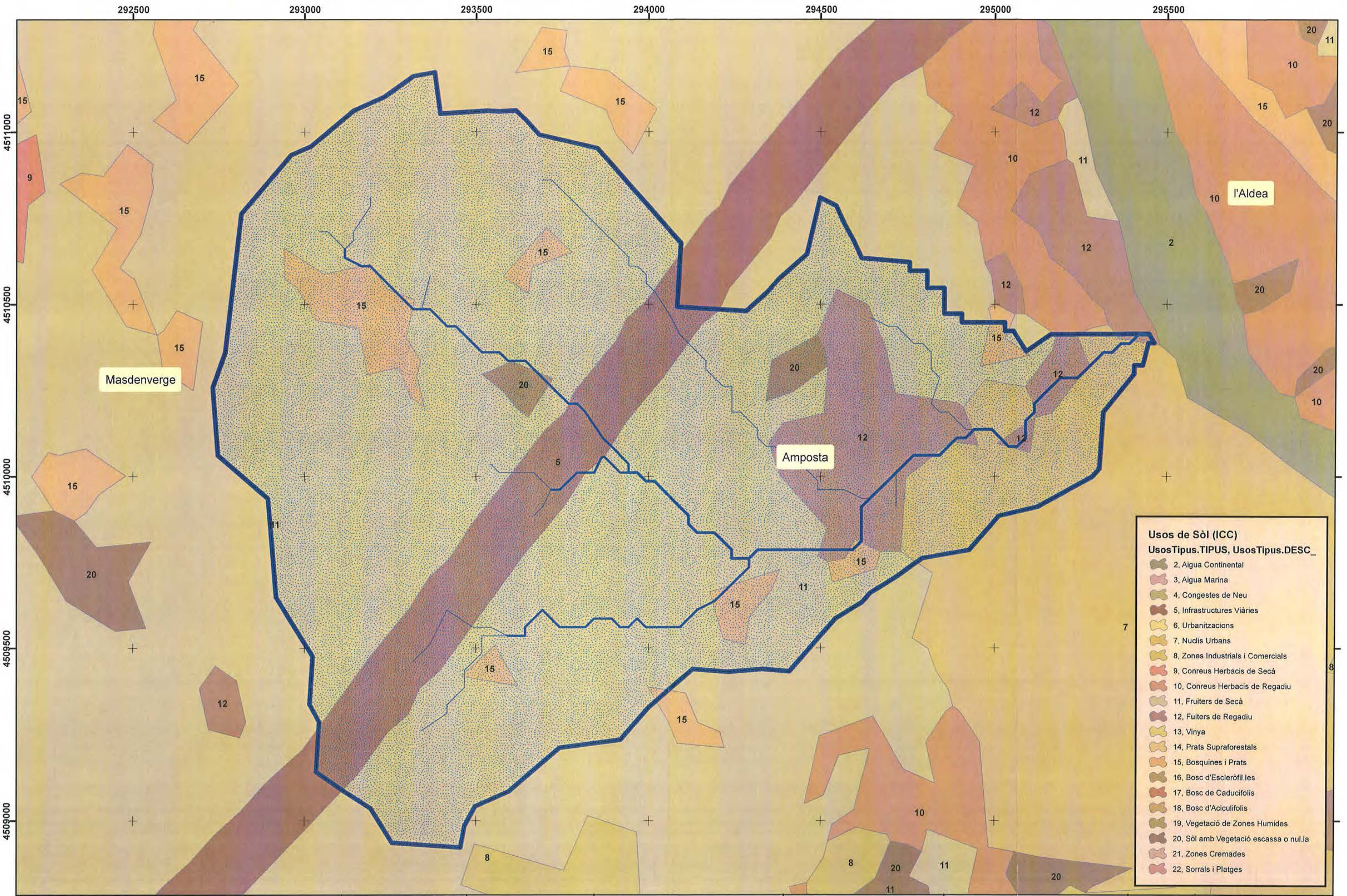
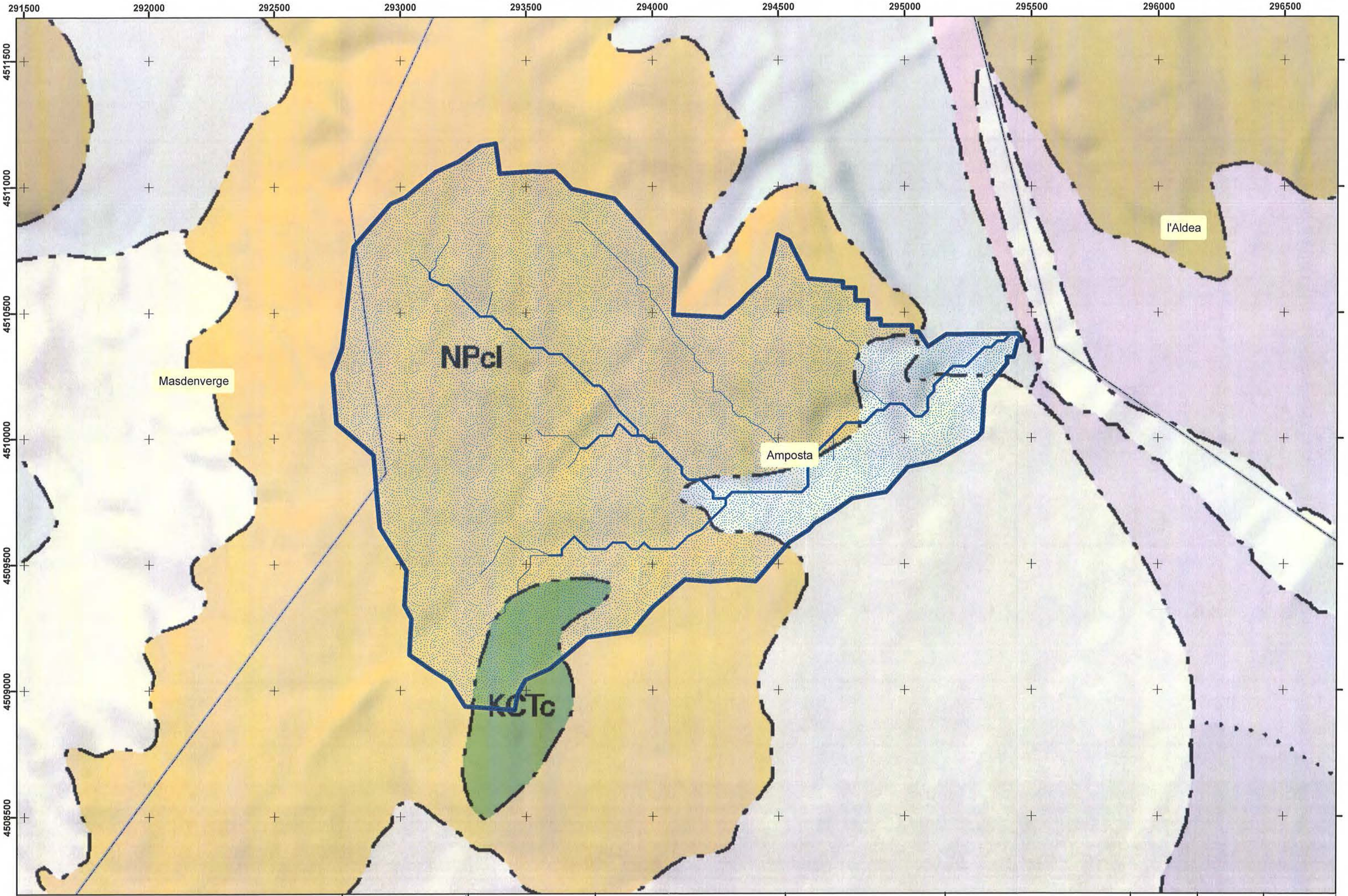
AJUNTAMENT D'AMPOSTA	**L'enginyer autor del projecte:** Domingo Montserrat i Pitarch Col.legiat Num: 10.226	**L'Empresa Consultora:** TCC	**Títol de l'Estudi:** Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	**Escala:** 0 195 390 780 1.170 M.	**Títol del Plànol:** PLÀNOL SITUACIÓ i ÍNDEX	**Ref:** Comes	**Data:** Novembre 2006	**Plànol Num:** 1 Full 1 de 1

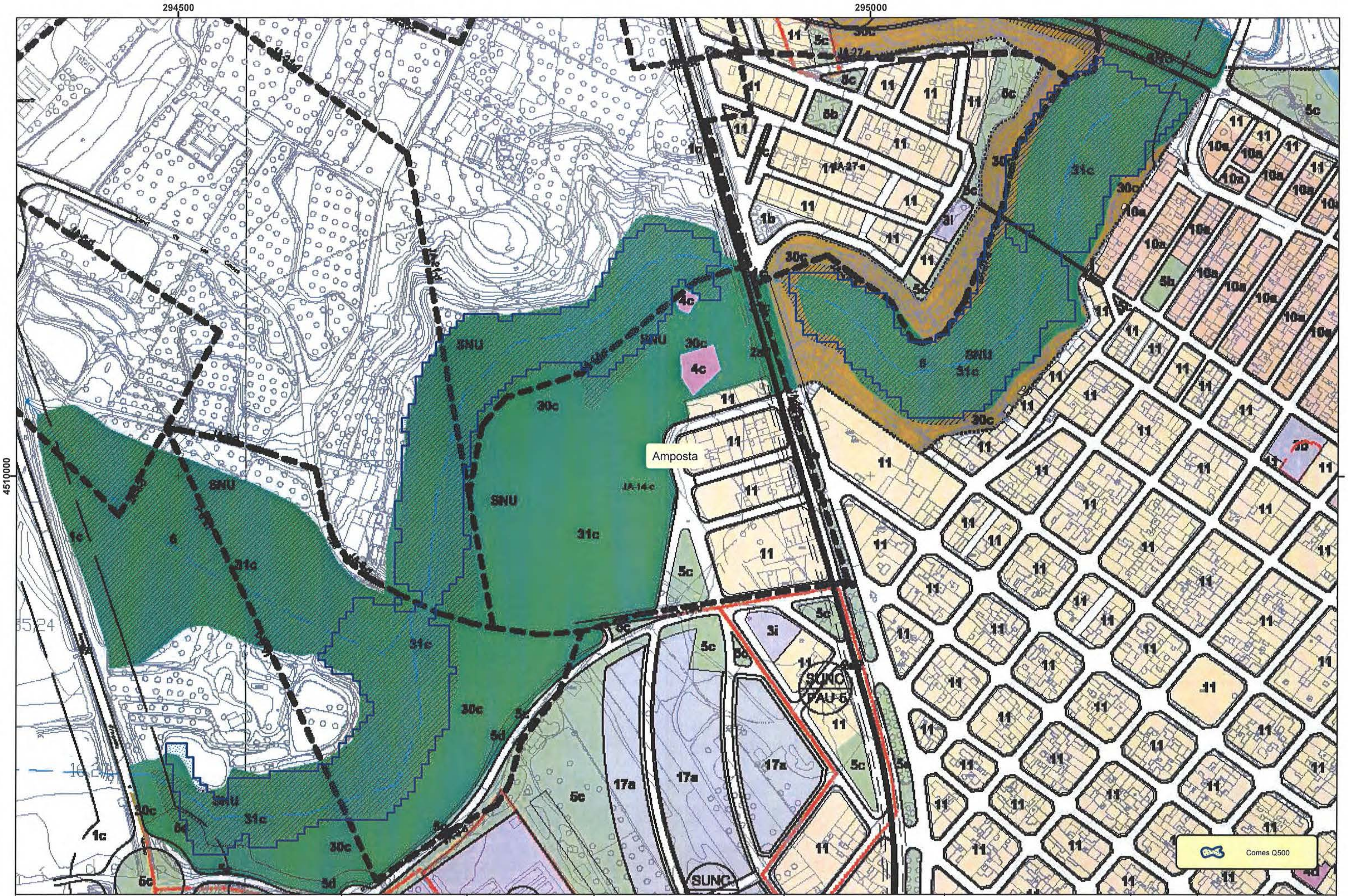
AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 55 110 220 330 440 M	Títol del Plànol: PLÀNOL DE CONCA	Ref: Comes	Data: Novembre 2006	Plànol Num: 2 Full 1 de 1



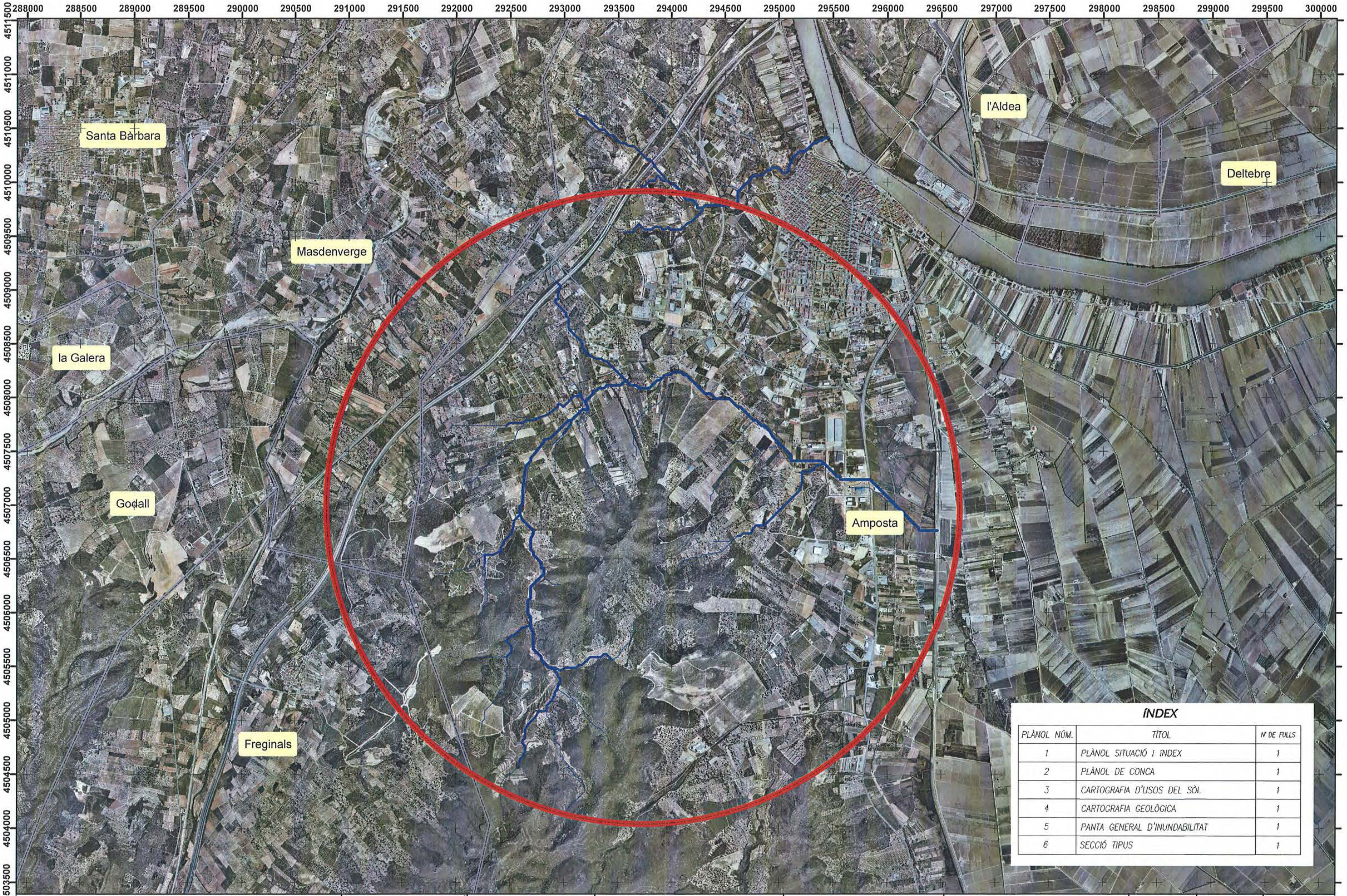
AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 55 110 220 330 440 M.	Títol del Plànol: CARTOGRAFIA d'USOS DEL SÒL	Ref: Comes	Data: Novembre 2006	Plànol Num: 3 Full 1 de 1



AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 80 160 320 480 640 M.	Títol del Plànol: CARTOGRAFIA GEOLÒGICA	Ref: Comes	Data: Novembre 2006	Plànol Num: 4 Full 1 de 1



AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 25 50 100 M.	Títol del Plànol: PLANTA GENERAL D'INUNDABILITAT	Ref: Comes	Data: Novembre 2006	Plànol Num: 5 Full 1 de 1



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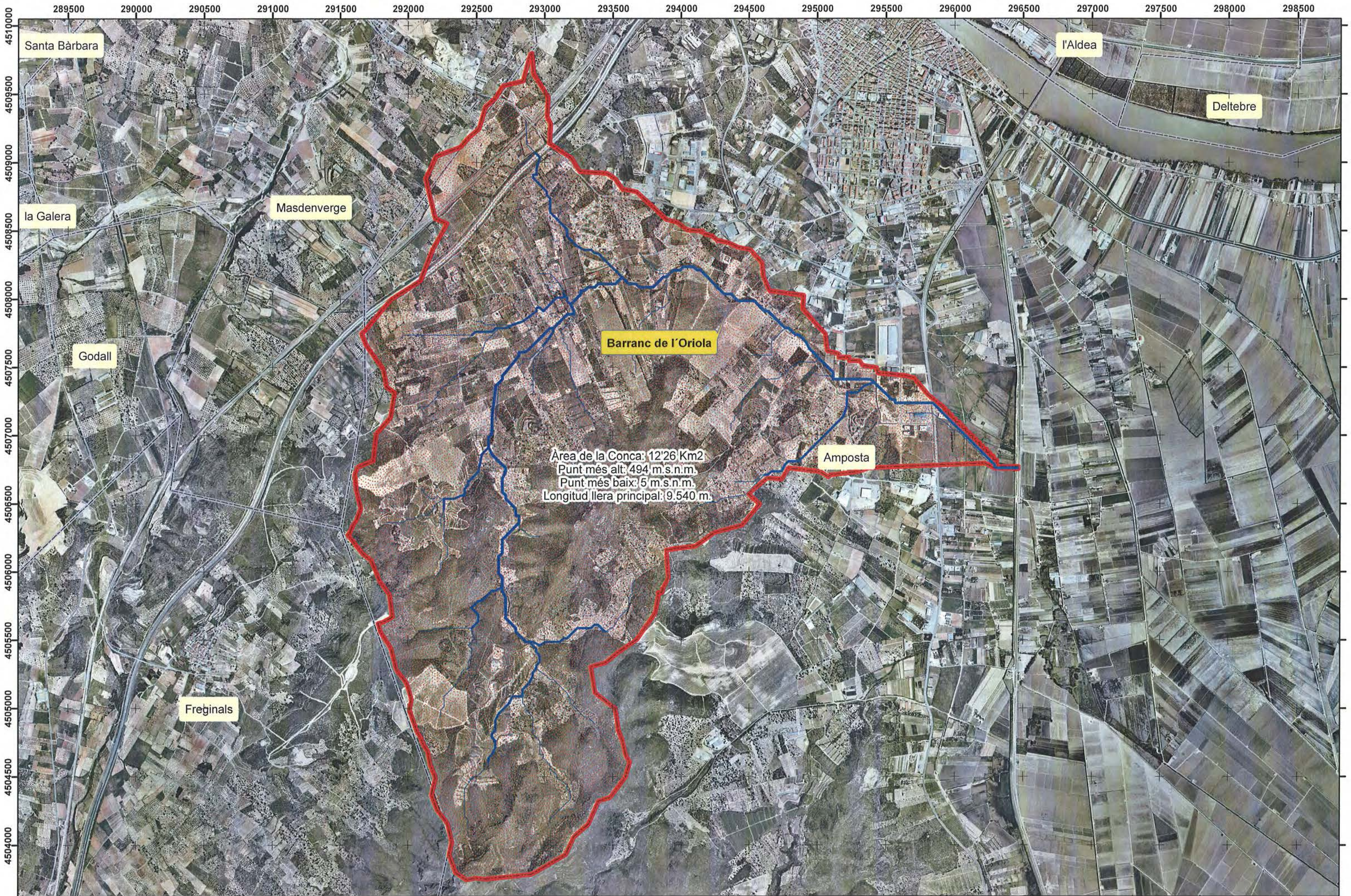
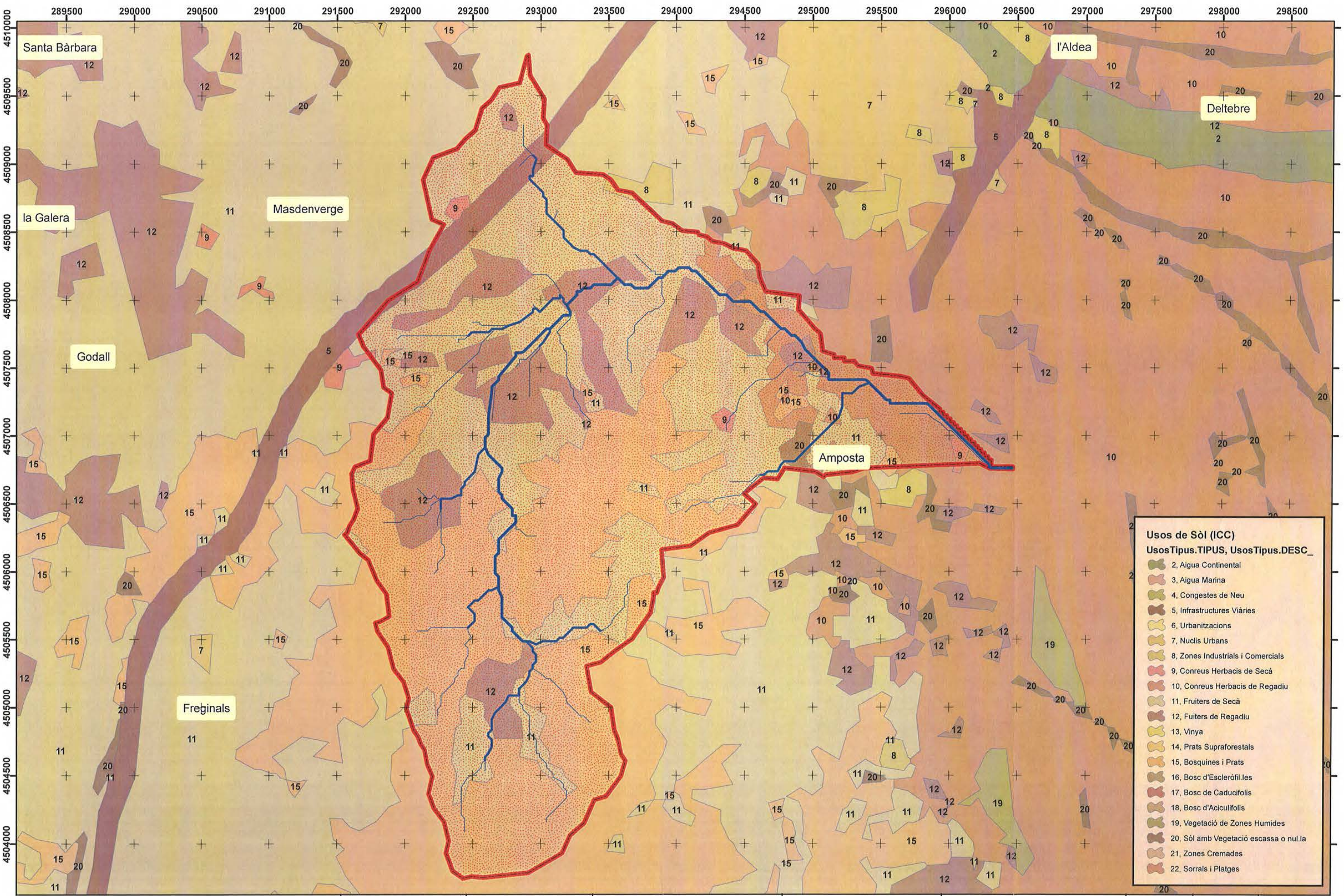
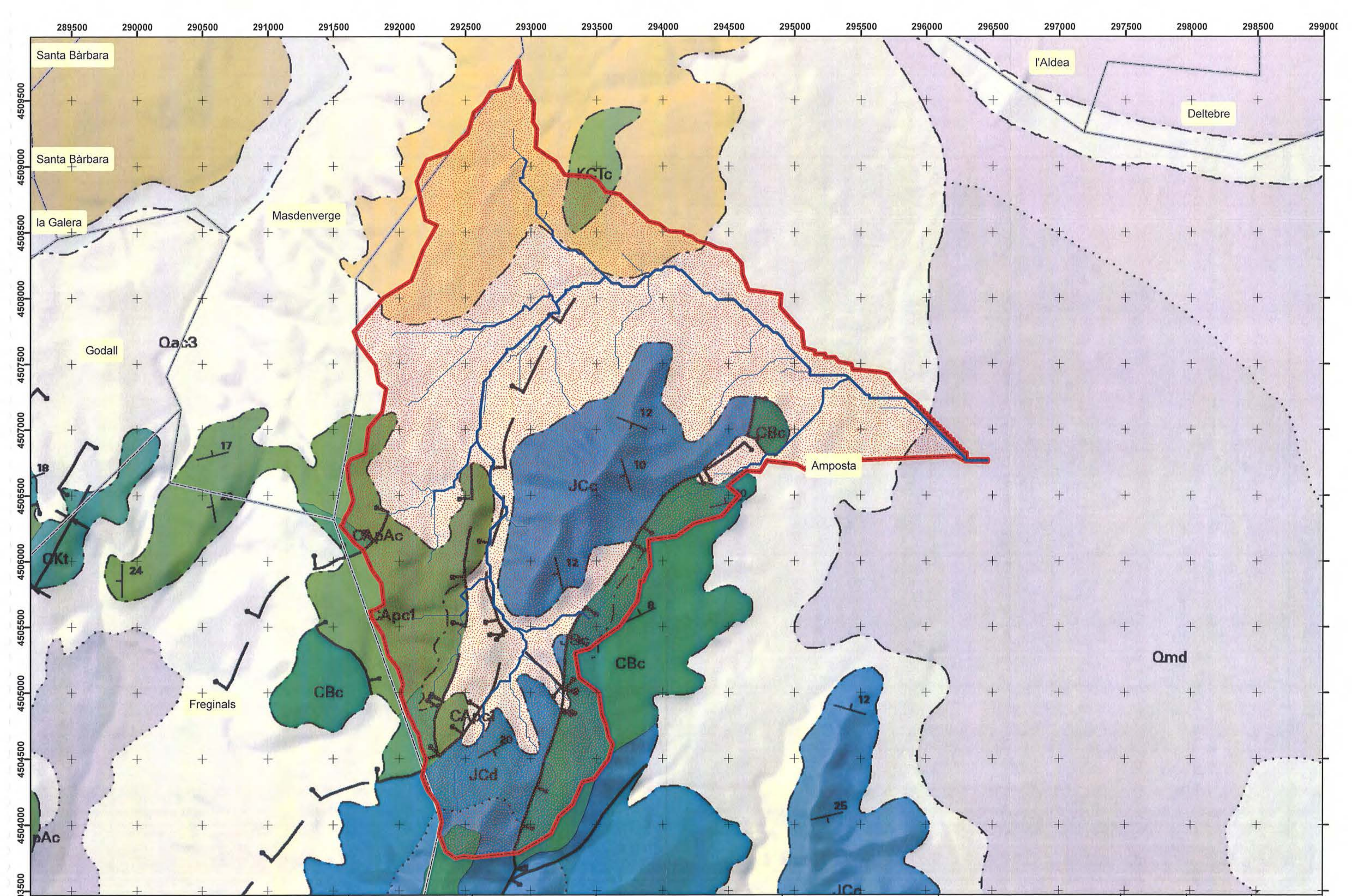
AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 195 390 780 1.170 M.	Títol del Plànol: PLÀNOL SITUACIÓ i ÍNDEX	Ref: L'Oriola	Data: Novembre 2006	Plànol Num: 1 Full 1 de 1



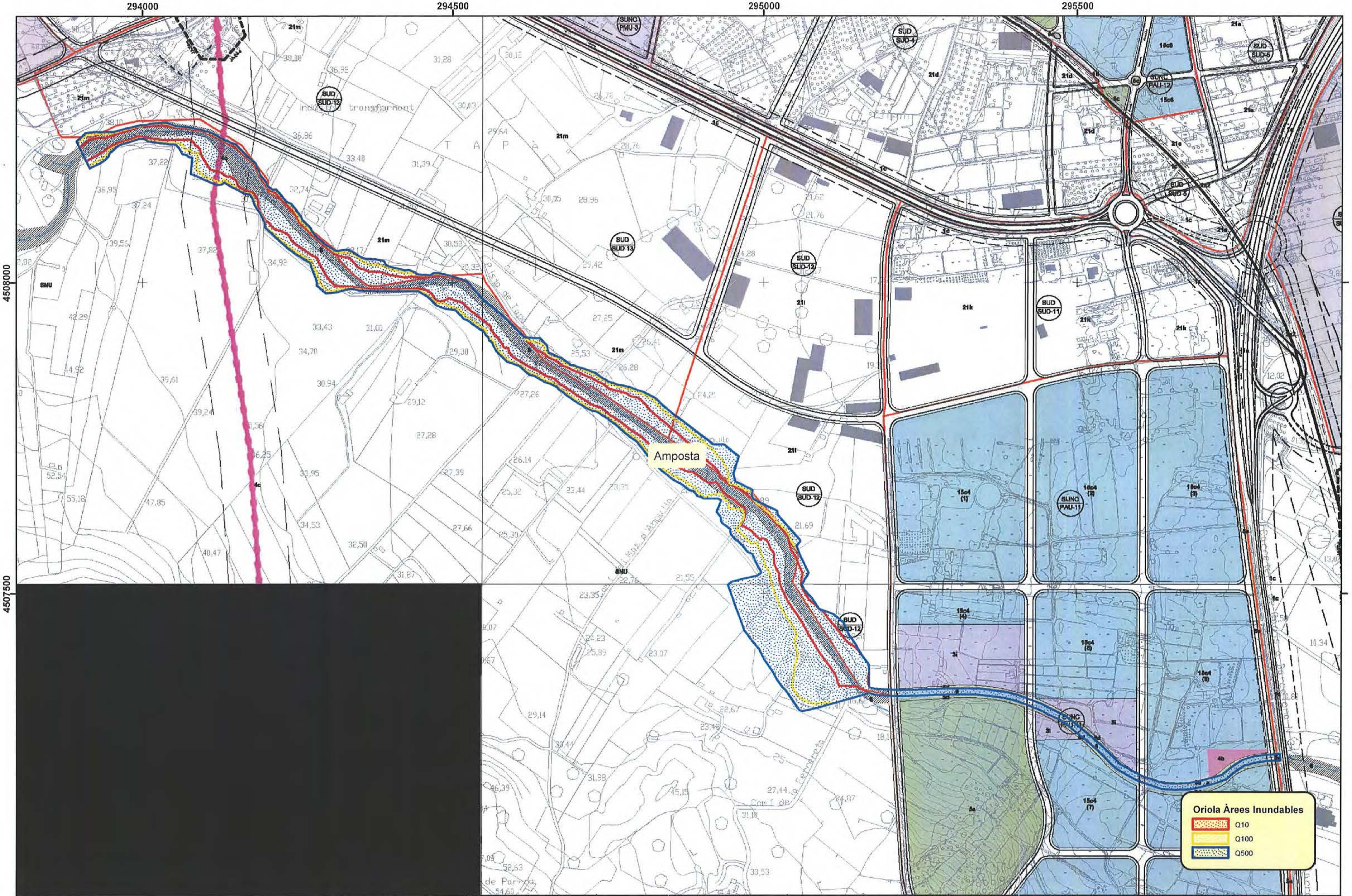
AJUNTAMENT D'AMPOSTA	**L'enginyer autor del projecte:** Domingo Montserrat i Pitarch Col.legiat Num: 10.226	**L'Empresa Consultora:** TCC	**Títol de l'Estudi:** Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	**Escala:** 0 135 270 540 810 1.080 M.	**Títol del Plànol:** PLÀNOL DE CONCA	**Ref:** L'Oriola	**Data:** Novembre 2006	**Plànol Num: 2** **Full 1 de 1**



AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 137,5 275 550 825 1.100 M.	Títol del Plànol: CARTOGRAFIA d'USOS DEL SÒL	Ref: L'Oriola	Data: Novembre 2006	Plànol Num: 3 Full 1 de 1

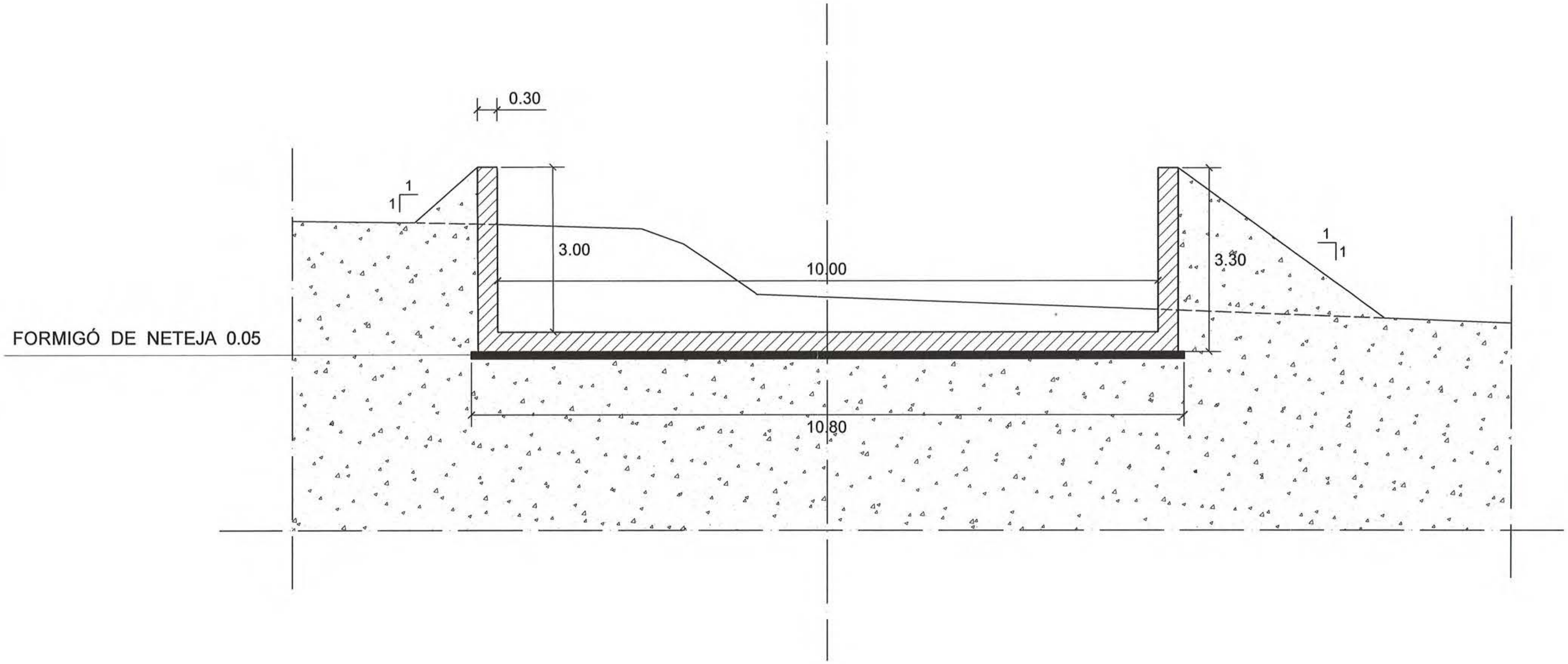


AJUNTAMENT D'AMPOSTA	L'enginyer autor del projecte: Domingo Montserrat i Pitarch Col.legiat Num: 10.226	L'Empresa Consultora: TCC	Títol de l'Estudi: Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	Escala: 0 145 290 580 870 1 160 M.	Títol del Plànol: CARTOGRAFIA GEOLÒGICA	Ref: L'Oriola	Data: Novembre 2006	Plànol Num: 4 Full 1 de 1



AJUNTAMENT D'AMPOSTA	**L'enginyer autor del projecte:** Domingo Montserrat i Pitarch Col.legiat Num: 10.226	**L'Empresa Consultora:** TCC	**Títol de l'Estudi:** Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	**Escala:** 0 25 50 100 150 200 M.	**Títol del Plànol:** PLANTA GENERAL D'INUNDABILITAT	**Ref:** L'Oriola	**Data:** Novembre 2006	**Plànol Num:** 5 **Full 1 de 1**

SECCIÓ TIPUS



AJUNTAMENT D'AMPOSTA	**L'enginyer autor del projecte:** Domingo Montserrat i Pitarch Col.legiat Num: 10.226	**L'Empresa Consultora:** TCC	**Títol de l'Estudi:** Estudi d'Inundabilitat dels barrancs d'Oriola i de Comes del POUM d'Amposta	**Escala:** Croquis	**Títol del Plànol:** SECCIÓ TIPUS	**Ref:** L'Oriola	**Data:** Novembre 2006	**Plànol Num: 6** **Full 1 de 1**