

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
infercaccio	33	q20	12.10	362.70	364.02	364.02	364.19	0.007248	2.29	7.93	19.36	0.70
infercaccio	33	q30	12.90	362.70	364.04	364.04	364.21	0.007386	2.34	8.27	19.49	0.71
infercaccio	33	q200	16.65	362.70	364.10	364.10	364.31	0.008211	2.57	9.63	19.99	0.75
infercaccio	33	q500	20.58	362.70	364.17	364.17	364.40	0.008741	2.75	10.99	20.48	0.78
infercaccio	32	q20	12.10	359.47	359.91	360.50	363.74	0.463725	8.67	1.39	4.44	4.94
infercaccio	32	q30	12.90	359.47	359.93	360.53	363.76	0.435287	8.68	1.49	4.49	4.82
infercaccio	32	q200	16.65	359.47	360.02	360.69	363.86	0.337100	8.69	1.92	4.71	4.34
infercaccio	32	q500	20.58	359.47	360.12	360.84	363.95	0.269935	8.68	2.37	4.84	3.96
infercaccio	31	q20	12.10	356.89	358.05	358.25	358.65	0.023272	3.67	3.99	8.67	1.22
infercaccio	31	q30	12.90	356.89	358.07	358.28	358.69	0.023515	3.75	4.20	8.98	1.24
infercaccio	31	q200	16.65	356.89	358.17	358.41	358.88	0.024612	4.10	5.13	10.23	1.28
infercaccio	31	q500	20.58	356.89	358.25	358.52	359.04	0.025754	4.42	6.03	11.30	1.33
infercaccio	30	q20	12.10	354.93	356.80	356.20	356.85	0.001269	1.01	14.58	20.01	0.30
infercaccio	30	q30	12.90	354.93	356.83	356.25	356.87	0.001330	1.04	15.01	20.06	0.31
infercaccio	30	q200	16.65	354.93	356.95	356.42	357.00	0.001429	1.13	17.48	20.40	0.32
infercaccio	30	q500	20.58	354.93	357.09	356.59	357.15	0.001351	1.18	20.53	22.30	0.32
infercaccio	29.5		Bridge									
infercaccio	29	q20	12.10	354.89	356.37	356.46	356.69	0.013371	2.66	5.68	15.77	0.83
infercaccio	29	q30	12.90	354.89	356.39	356.48	356.72	0.013708	2.73	5.97	15.86	0.84
infercaccio	29	q200	16.65	354.89	356.43	356.57	356.88	0.018134	3.22	6.63	16.09	0.98
infercaccio	29	q500	20.58	354.89	356.51	356.64	356.97	0.018251	3.38	7.89	16.50	0.99
infercaccio	28	q20	12.10	353.11	354.05	354.67	355.75	0.104005	5.76	2.10	3.69	2.44
infercaccio	28	q30	12.90	353.11	354.09	354.70	355.77	0.098695	5.74	2.25	3.80	2.39
infercaccio	28	q200	16.65	353.11	354.26	354.80	355.90	0.079988	5.67	2.94	4.32	2.19
infercaccio	28	q500	20.58	353.11	354.42	354.86	356.04	0.068455	5.64	3.65	4.81	2.06
infercaccio	27	q20	12.10	352.00	353.29	353.55	353.93	0.028428	3.54	3.42	4.87	1.32
infercaccio	27	q30	12.90	352.00	353.31	353.60	353.99	0.029220	3.65	3.54	5.39	1.35
infercaccio	27	q200	16.65	352.00	353.42	353.75	354.26	0.031075	4.09	4.25	8.31	1.42
infercaccio	27	q500	20.58	352.00	353.50	353.86	354.50	0.033585	4.52	5.01	10.66	1.50
infercaccio	26	q20	12.10	350.46	351.45	351.87	352.79	0.075605	5.13	2.36	3.84	2.09
infercaccio	26	q30	12.90	350.46	351.48	351.90	352.84	0.074077	5.17	2.50	3.95	2.08
infercaccio	26	q200	16.65	350.46	351.62	352.09	353.11	0.069781	5.39	3.09	4.37	2.05
infercaccio	26	q500	20.58	350.46	351.76	352.51	353.33	0.065598	5.56	3.70	4.76	2.01
infercaccio	25	q20	12.10	349.11	350.32	350.71	351.12	0.038139	3.97	3.05	4.34	1.51
infercaccio	25	q30	12.90	349.11	350.35	350.75	351.19	0.038546	4.05	3.19	4.44	1.52
infercaccio	25	q200	16.65	349.11	350.59	350.83	351.28	0.044585	3.68	4.53	8.62	1.62
infercaccio	25	q500	20.58	349.11	350.69	350.94	351.39	0.052005	3.71	5.55	12.01	1.74
infercaccio	24	q20	12.10	348.53	349.88	349.98	350.21	0.030433	2.52	4.79	12.53	1.30
infercaccio	24	q30	12.90	348.53	349.90	350.00	350.24	0.032152	2.58	5.00	13.19	1.34
infercaccio	24	q200	16.65	348.53	349.98	350.10	350.36	0.030499	2.74	6.16	17.70	1.33
infercaccio	24	q500	20.58	348.53	350.04	350.19	350.46	0.027784	2.87	7.53	22.19	1.30
infercaccio	23	q20	12.10	348.17	349.60	349.30	349.62	0.000477	0.45	25.38	40.11	0.18
infercaccio	23	q30	12.90	348.17	349.62	349.30	349.63	0.000500	0.47	26.08	41.56	0.19
infercaccio	23	q200	16.65	348.17	349.69	349.30	349.71	0.000605	0.55	29.22	47.48	0.21
infercaccio	23	q500	20.58	348.17	349.75	349.30	349.78	0.000705	0.63	32.27	49.11	0.23
infercaccio	22.8	q20	12.10	348.17	349.56	349.42	349.60	0.004615	0.99	12.83	36.41	0.51
infercaccio	22.8	q30	12.90	348.17	349.57	349.43	349.62	0.004549	1.01	13.41	37.51	0.51
infercaccio	22.8	q200	16.65	348.17	349.64	349.47	349.69	0.004449	1.10	15.96	42.84	0.52
infercaccio	22.8	q500	20.58	348.17	349.69	349.52	349.76	0.004436	1.19	18.53	47.63	0.53
infercaccio	22.7		Bridge									
infercaccio	22.6	q20	12.10	348.18	349.38	349.42	349.56	0.031495	2.12	6.80	33.96	1.27
infercaccio	22.6	q30	12.90	348.18	349.38	349.43	349.57	0.032075	2.16	7.06	34.07	1.29
infercaccio	22.6	q200	16.65	348.18	349.42	349.47	349.64	0.034854	2.35	8.16	34.53	1.36
infercaccio	22.6	q500	20.58	348.18	349.46	349.52	349.71	0.034760	2.45	9.40	35.04	1.37
infercaccio	22.4	q20	12.10	348.08	349.30	349.30	349.34	0.002422	0.83	14.93	32.97	0.39
infercaccio	22.4	q30	12.90	348.08	349.30	349.30	349.34	0.002753	0.88	14.93	32.97	0.41
infercaccio	22.4	q200	16.65	348.08	349.30	349.30	349.37	0.004585	1.14	14.93	32.97	0.53
infercaccio	22.4	q500	20.58	348.08	349.30	349.30	349.40	0.007006	1.41	14.93	32.97	0.66
infercaccio	22.2	q20	12.10	346.17	346.94	347.43	348.80	0.117917	6.04	2.00	3.60	2.58
infercaccio	22.2	q30	12.90	346.17	346.98	347.49	348.81	0.108196	5.98	2.16	3.63	2.48
infercaccio	22.2	q200	16.65	346.17	348.47	347.68	348.47	0.000012	0.11	113.70	54.69	0.03
infercaccio	22.2	q500	20.58	346.17	348.76	347.88	348.76	0.000012	0.12	129.56	54.69	0.03
infercaccio	22	q20	12.10	346.19	347.45	347.45	347.94	0.017707	3.11	3.89	3.93	1.00
infercaccio	22	q30	12.90	346.19	347.49	347.49	348.00	0.018034	3.19	4.05	3.95	1.01
infercaccio	22	q200	16.65	346.19	347.69	347.69	348.29	0.018186	3.43	4.85	4.08	1.00
infercaccio	22	q500	20.58	346.19	347.88	347.88	348.55	0.018216	3.63	5.67	4.21	1.00
infercaccio	21	q20	12.10	345.49	346.19	346.15	346.20	0.000223	0.24	30.36	33.67	0.12
infercaccio	21	q30	12.90	345.49	346.24	346.15	346.25	0.000215	0.25	31.97	33.74	0.11

## HEC-RAS Plan: q200 River: infercaccio Reach: infermaccio (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
infermaccio	21	q200	16.65	345.49	346.45	346.15	346.46	0.000191	0.29	39.04	34.03	0.11
infermaccio	21	q500	20.58	345.49	346.15	346.15	346.18	0.000755	0.42	28.90	33.61	0.21
infermaccio	20	q20	12.10	344.63	345.78	345.78	346.14	0.016181	2.67	4.53	6.20	1.00
infermaccio	20	q30	12.90	344.63	345.81	345.81	346.19	0.016193	2.73	4.73	6.27	1.00
infermaccio	20	q200	16.65	344.63	345.96	345.96	346.39	0.015643	2.91	5.73	6.59	1.00
infermaccio	20	q500	20.58	344.63	346.02	346.02	346.03	0.000035	0.14	76.50	35.47	0.05
infermaccio	19	q20	12.10	342.07	343.03	343.49	344.52	0.083110	5.41	2.24	3.53	2.17
infermaccio	19	q30	12.90	342.07	343.07	343.53	344.58	0.080941	5.45	2.37	3.62	2.15
infermaccio	19	q200	16.65	342.07	343.22	343.73	344.85	0.074897	5.66	2.94	3.97	2.10
infermaccio	19	q500	20.58	342.07	343.21	343.90	345.76	0.118319	7.08	2.91	3.95	2.63
infermaccio	18	q20	12.10	340.11	341.46	341.66	342.24	0.032761	3.91	3.09	3.46	1.32
infermaccio	18	q30	12.90	340.11	341.50	341.71	342.31	0.033042	3.99	3.23	3.53	1.33
infermaccio	18	q200	16.65	340.11	341.67	341.93	342.61	0.033913	4.29	3.88	3.82	1.36
infermaccio	18	q500	20.58	340.11	341.84	342.14	342.89	0.034201	4.54	4.53	4.10	1.38
infermaccio	17	q20	12.10	339.05	340.58	340.73	341.27	0.028200	3.70	3.27	3.41	1.20
infermaccio	17	q30	12.90	339.05	340.63	340.78	341.34	0.027965	3.74	3.45	3.49	1.20
infermaccio	17	q200	16.65	339.05	340.84	341.00	341.63	0.027255	3.94	4.22	3.84	1.20
infermaccio	17	q500	20.58	339.05	341.03	341.27	341.90	0.027071	4.14	4.97	4.15	1.21
infermaccio	16	q20	12.10	337.42	338.67	338.97	339.62	0.043484	4.31	2.80	3.54	1.55
infermaccio	16	q30	12.90	337.42	338.70	339.02	339.69	0.043665	4.39	2.94	3.61	1.55
infermaccio	16	q200	16.65	337.42	338.86	339.23	339.99	0.044153	4.70	3.54	3.94	1.58
infermaccio	16	q500	20.58	337.42	339.02	339.42	340.26	0.043797	4.94	4.17	4.24	1.59
infermaccio	15	q20	12.10	336.27	337.52	337.76	338.31	0.035596	3.94	3.07	4.08	1.45
infermaccio	15	q30	12.90	336.27	337.56	337.80	338.38	0.035783	4.01	3.22	4.17	1.46
infermaccio	15	q200	16.65	336.27	337.70	338.00	338.65	0.036754	4.31	3.86	4.54	1.49
infermaccio	15	q500	20.58	336.27	337.83	338.18	338.91	0.038038	4.61	4.47	4.87	1.54
infermaccio	14	q20	12.10	335.21	336.45	336.68	337.22	0.034075	3.89	3.11	3.96	1.40
infermaccio	14	q30	12.90	335.21	336.49	336.72	337.28	0.033772	3.94	3.27	4.05	1.40
infermaccio	14	q200	16.65	335.21	336.66	336.92	337.54	0.032862	4.16	4.00	4.45	1.40
infermaccio	14	q500	20.58	335.21	336.81	337.10	337.78	0.032209	4.35	4.73	4.81	1.40
infermaccio	13.6	q20	12.10	334.01	334.57	334.86	335.50	0.050032	4.27	2.83	6.28	2.03
infermaccio	13.6	q30	12.90	334.01	334.59	334.89	335.56	0.050392	4.37	2.95	6.36	2.05
infermaccio	13.6	q200	16.65	334.01	334.67	334.91	335.83	0.051450	4.76	3.50	6.72	2.10
infermaccio	13.6	q500	20.58	334.01	334.75	334.91	336.07	0.051977	5.09	4.05	7.05	2.14
infermaccio	13.5	q20	12.10	332.38	334.77	333.39	334.83	0.001234	1.16	10.47	7.11	0.30
infermaccio	13.5	q30	12.90	332.38	334.83	333.44	334.90	0.001249	1.18	10.97	7.40	0.31
infermaccio	13.5	q200	16.65	332.38	334.78	333.63	334.90	0.002288	1.58	10.56	7.16	0.41
infermaccio	13.5	q500	20.58	332.38	333.11	333.82	335.91	0.118206	7.41	2.78	3.92	2.81
infermaccio	13	q20	12.10	332.38	334.76	333.39	334.83	0.001242	1.16	10.44	7.09	0.30
infermaccio	13	q30	12.90	332.38	334.83	333.44	334.90	0.001257	1.18	10.94	7.39	0.31
infermaccio	13	q200	16.65	332.38	334.77	333.63	334.90	0.002314	1.58	10.51	7.13	0.42
infermaccio	13	q500	20.58	332.38	334.73	333.82	334.93	0.003812	2.02	10.19	6.94	0.53
infermaccio	12.5		Culvert									
infermaccio	12	q20	12.10	332.30	333.62	332.91	333.66	0.000680	0.88	13.67	11.78	0.26
infermaccio	12	q30	12.90	332.30	333.69	332.93	333.73	0.000650	0.89	14.46	11.83	0.26
infermaccio	12	q200	16.65	332.30	333.98	333.03	334.02	0.000562	0.93	17.92	12.28	0.24
infermaccio	12	q500	20.58	332.30	333.80	333.12	333.89	0.001262	1.30	15.81	11.91	0.36
infermaccio	11	q20	12.10	331.82	333.01	333.01	333.49	0.013970	3.07	3.94	4.07	1.00
infermaccio	11	q30	12.90	331.82	333.06	333.06	333.56	0.014060	3.14	4.11	4.11	1.00
infermaccio	11	q200	16.65	331.82	333.25	333.25	333.83	0.014041	3.37	4.95	4.29	1.00
infermaccio	11	q500	20.58	331.82	333.83	333.44	333.84	0.000246	0.52	43.10	33.89	0.13
infermaccio	10	q20	12.10	331.48	332.47	332.69	333.25	0.030867	3.92	3.09	4.60	1.53
infermaccio	10	q30	12.90	331.48	332.50	332.74	333.32	0.031113	4.01	3.22	4.63	1.53
infermaccio	10	q200	16.65	331.48	332.64	332.92	333.58	0.030240	4.30	3.87	4.77	1.52
infermaccio	10	q500	20.58	331.48	333.08	333.08	333.66	0.012749	3.38	6.08	5.23	1.00
infermaccio	9	q20	12.10	330.30	331.64	331.81	332.29	0.023705	3.55	3.41	4.57	1.31
infermaccio	9	q30	12.90	330.30	331.67	331.84	332.35	0.024070	3.64	3.54	4.61	1.33
infermaccio	9	q200	16.65	330.30	331.81	332.03	332.62	0.024757	3.97	4.19	4.78	1.36
infermaccio	9	q500	20.58	330.30	332.57	332.19	332.58	0.000090	0.32	52.40	24.61	0.08
infermaccio	8	q20	12.10	330.21	331.36	331.56	332.08	0.025264	3.74	3.23	4.54	1.42
infermaccio	8	q30	12.90	330.21	331.40	331.60	332.14	0.025140	3.81	3.39	4.59	1.42
infermaccio	8	q200	16.65	330.21	331.54	331.78	332.40	0.024915	4.09	4.07	4.79	1.42
infermaccio	8	q500	20.58	330.21	331.95	331.95	332.52	0.012068	3.35	6.15	5.37	1.00
infermaccio	7	q20	12.10	329.89	330.91	331.03	331.54	0.019044	3.51	3.45	3.93	1.20
infermaccio	7	q30	12.90	329.89	330.96	331.07	331.60	0.018768	3.56	3.63	3.95	1.19
infermaccio	7	q200	16.65	329.89	331.41	331.27	331.88	0.009961	3.05	5.46	4.19	0.85
infermaccio	7	q500	20.58	329.89	331.66	331.46	332.16	0.009321	3.15	6.54	4.31	0.82
infermaccio	6	q20	12.10	329.52	331.09	330.88	331.41	0.007645	2.50	4.84	4.33	0.75

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infermaccio	6	q30	12.90	329.52	331.16	330.93	331.48	0.007487	2.52	5.11	4.38	0.75
infermaccio	6	q200	16.65	329.52	331.44	331.13	331.79	0.006778	2.61	6.39	4.62	0.71
infermaccio	6	q500	20.58	329.52	331.70	331.31	332.07	0.006420	2.70	7.62	4.84	0.69
infermaccio	5	q20	12.10	329.43	330.74	330.74	331.27	0.014346	3.22	3.75	3.56	1.00
infermaccio	5	q30	12.90	329.43	330.79	330.79	331.34	0.014267	3.27	3.94	3.59	1.00
infermaccio	5	q200	16.65	329.43	331.01	331.01	331.64	0.014594	3.53	4.72	3.73	1.00
infermaccio	5	q500	20.58	329.43	331.22	331.22	331.93	0.014720	3.73	5.51	3.86	1.00
infermaccio	4	q20	12.10	329.17	330.06	330.30	330.87	0.029292	3.98	3.04	4.31	1.51
infermaccio	4	q30	12.90	329.17	330.09	330.35	330.94	0.029444	4.07	3.17	4.36	1.52
infermaccio	4	q200	16.65	329.17	330.22	330.52	331.22	0.030480	4.43	3.76	4.55	1.56
infermaccio	4	q500	20.58	329.17	330.35	330.70	331.50	0.031295	4.74	4.34	4.74	1.58
infermaccio	2	q20	12.10	328.35	329.25	329.43	329.91	0.020367	3.61	3.35	4.80	1.38
infermaccio	2	q30	12.90	328.35	329.28	329.50	329.97	0.020384	3.68	3.50	4.85	1.38
infermaccio	2	q200	16.65	328.35	329.41	329.50	330.23	0.020582	4.01	4.15	5.09	1.42
infermaccio	2	q500	20.58	328.35	329.46	329.50	330.56	0.025368	4.65	4.50	7.71	1.59
infermaccio	1	q20	12.10	325.17	325.78	326.49	328.97	0.186249	7.91	1.53	2.66	3.33
infermaccio	1	q30	12.90	325.17	325.81	326.54	329.04	0.178487	7.96	1.62	2.66	3.25
infermaccio	1	q200	16.65	325.17	325.98	326.79	329.32	0.150389	8.10	2.06	2.66	2.94
infermaccio	1	q500	20.58	325.17	326.14	327.03	329.59	0.132317	8.22	2.50	2.66	2.71