	Future 2 year without areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
SM23	0.21	37.00	0.51	5.72	134.53	0.28
SM24	0.07	12.30	0.50	1.81	43.33	0.28
SM25	0.05	7.30	0.39	0.97	29.76	0.25
SM26	0.21	39.50	0.50	5.56	133.50	0.30
SM27	0.20	31.30	0.42	4.42	126.34	0.25
SM28	0.25	35.70	0.39	5.20	159.87	0.22
SM29	0.19	30.40	0.42	4.27	121.92	0.25
SM3	0.15	17.20	0.25	2.01	96.58	0.18
SM30	0.10	14.70	0.36	1.84	61.38	0.24
SM31	0.17	25.90	0.40	3.63	108.93	0.24
SM32	0.14	14.70	0.24	1.75	87.55	0.17
SM33	0.21	32.20	0.41	4.52	132.16	0.24
SM34	0.25	36.90	0.42	5.51	157.38	0.23
SM4	0.25	9.20	0.11	1.47	160.83	0.06
SM5	0.09	1.30	0.04	0.20	59.52	0.02
SM6	0.14	1.90	0.04	0.30	91.39	0.02
SM7	0.14	5.70	0.08	0.61	92.16	0.06
SM8	0.26	43.20	0.46	6.38	166.53	0.26
SM9	0.24	48.20	0.61	7.66	150.72	0.32
WF	4.14	1086.00	0.56	123.65	2649.60	0.41

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
B1	0.16	23.90	0.40	3.48	104.45	0.23
B2	0.12	20.10	0.46	3.00	78.34	0.26
B3	0.15	23.30	0.44	3.48	94.85	0.25
B4	0.21	40.70	0.55	6.29	137.34	0.30
B5	0.15	30.00	0.60	4.69	93.76	0.32
B6	0.21	36.60	0.51	5.70	134.14	0.27
B7	0.13	26.80	0.61	4.08	80.19	0.33
B8	0.16	30.60	0.54	4.55	101.18	0.30
B9	0.27	41.90	0.40	5.67	170.05	0.25
C10	0.21	33.60	0.41	4.65	136.13	0.25
C11	0.12	11.60	0.25	1.62	77.57	0.15
C12	0.15	7.50	0.13	1.06	97.66	0.08
C13	0.22	39.20	0.51	5.85	137.60	0.28
C14	0.20	34.40	0.47	5.09	129.92	0.26
C15	0.16	26.20	0.44	3.76	102.53	0.26
C16	0.24	23.40	0.24	3.07	153.60	0.15
C17	0.12	21.50	0.50	3.22	77.38	0.28
C18	0.22	33.10	0.38	4.45	140.61	0.24
C19	0.21	21.80	0.22	2.50	136.51	0.16
C1A	0.19	7.50	0.08	0.82	123.33	0.06
C1B	0.16	11.60	0.17	1.46	103.04	0.11
C2	0.22	10.50	0.13	1.53	141.50	0.07
C20	0.18	19.70	0.28	2.75	117.89	0.17
C21	0.13	24.70	0.55	3.82	83.39	0.30
C22	0.25	29.10	0.25	3.39	162.82	0.18
C23	0.12	8.00	0.15	0.97	77.50	0.10
C24	0.15	14.30	0.22	1.76	95.87	0.15
C25	0.23	16.60	0.16	1.92	144.32	0.12
C26	0.10	10.30	0.24	1.26	63.10	0.16
C27	0.09	6.50	0.16	0.77	57.41	0.11
C28	0.24	18.90	0.20	2.53	152.00	0.12
C29	0.17	15.60	0.20	1.85	110.98	0.14
C3	0.18	19.50	0.28	2.69	115.14	0.17
C30	0.13	5.60	0.08	0.54	81.41	0.07
C31	0.24	15.00	0.15	1.91	152.64	0.10
C32	0.13	14.50	0.27	1.82	81.09	0.18
C33	0.12	22.60	0.55	3.41	74.43	0.30
C34	0.15	24.30	0.43	3.34	93.31	0.26
C35	0.10	8.30	0.19	0.99	62.78	0.13
C36	0.21	17.10	0.16	1.80	135.04	0.13
C37	0.16	13.50	0.19	1.67	105.28	0.13
C38	0.14	17.40	0.29	2.13	88.26	0.20
C39	0.15	15.80	0.24	1.96	98.11	0.16
C4	0.23	32.10	0.35	4.21	144.19	0.22
C40	0.16	28.50	0.46	4.04	105.34	0.27
C41	0.17	28.10	0.42	3.90	111.36	0.25
C42	0.20	12.90	0.16	1.68	126.34	0.10
C43	0.14	10.80	0.16	1.18	88.32	0.12
C44	0.13	5.90	0.08	0.56	83.84	0.07
C45	0.14	8.50	0.13	0.99	91.71	0.09

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
C46	0.11	15.40	0.34	2.04	72.13	0.21
C47	0.19	26.00	0.35	3.50	120.06	0.22
C48	0.14	5.00	0.06	0.44	87.74	0.06
C49	0.22	20.00	0.20	2.35	141.06	0.14
C5	0.19	32.90	0.46	4.67	121.79	0.27
C50	0.21	29.30	0.35	3.88	133.12	0.22
C6	0.20	28.10	0.37	3.90	126.40	0.22
C7	0.23	42.20	0.51	6.36	149.63	0.28
C8	0.23	17.70	0.18	2.25	150.21	0.12
C9	0.13	19.50	0.36	2.57	85.50	0.23
CS1	0.12	13.20	0.28	1.78	76.42	0.17
CS10	0.17	22.60	0.34	3.03	106.88	0.21
CS11	0.27	23.50	0.18	2.59	172.48	0.14
CS12	0.18	22.70	0.29	2.82	116.86	0.19
CS2	0.16	16.40	0.25	2.07	99.39	0.17
CS3	0.20	18.20	0.19	2.06	130.11	0.14
CS4	0.22	32.70	0.40	4.66	139.78	0.23
CS5	0.11	17.20	0.39	2.32	71.30	0.24
CS6	0.25	48.10	0.58	7.65	158.27	0.30
CS7	0.12	19.90	0.43	2.84	79.23	0.25
CS8	0.15	18.60	0.33	2.58	93.82	0.20
CS9	0.13	17.90	0.35	2.35	80.70	0.22
DIV-F5	3.33	0.00	0.00	0.00	2133.31	0.00
DP-04	0.45	53.80	0.29	6.88	284.80	0.19
DP-B1	1.55	266.70	0.49	40.60	994.30	0.27
DP-B2	1.39	244.30	0.51	37.82	889.86	0.27
DP-B3	1.12	202.00	0.52	31.06	716.67	0.28
DP-B4	0.55	97.90	0.49	14.35	351.42	0.28
DP-C10	1.58	138.20	0.23	19.39	1011.52	0.14
DP-C11	1.28	115.30	0.22	15.00	817.98	0.14
DP-C12	0.57	53.20	0.23	6.94	361.92	0.15
DP-C13	0.21	29.30	0.35	3.88	133.12	0.22
DP-C1A	14.87	1458.30	0.35	277.55	9515.97	0.15
DP-C1B	14.68	1456.10	0.35	273.95	9392.64	0.16
DP-C2	14.30	1310.90	0.30	228.84	9153.73	0.14
DP-C20	0.76	108.20	0.40	16.25	487.62	0.22
DP-C21	0.35	47.80	0.39	7.20	221.63	0.22
DP-C22	0.38	58.30	0.40	8.10	243.14	0.24
DP-C23	0.85	72.90	0.21	9.51	543.62	0.13
DP-C24	0.47	40.30	0.19	4.80	303.30	0.13
DP-C25	0.32	26.90	0.18	3.11	207.42	0.13
DP-C26	0.54	39.60	0.17	4.88	344.38	0.11
DP-C27	0.26	46.90	0.48	6.71	167.74	0.28
DP-C28	0.34	56.60	0.44	7.95	216.70	0.26
DP-C29	0.30	41.50	0.35	5.61	192.19	0.22
DP-C3	13.74	1291.20	0.31	227.19	8794.56	0.15
DP-C4	8.25	689.50	0.29	127.62	5281.02	0.13
DP-C5	6.52	532.20	0.27	93.93	4174.46	0.13
DP-C6	6.16	514.60	0.27	88.63	3939.20	0.13
DP-C7	5.21	447.60	0.25	69.48	3335.17	0.13

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
DP-C8	3.96	362.80	0.25	52.86	2537.15	0.14
DP-C9	2.58	237.20	0.24	33.01	1650.50	0.14
DP-CS1	2.07	257.10	0.33	36.44	1325.25	0.19
DP-CS2	0.37	68.10	0.53	10.49	237.50	0.29
DP-CS3	1.42	164.50	0.30	22.80	911.94	0.18
DP-CS4	1.08	129.30	0.31	17.77	688.00	0.19
DP-CS5	0.29	40.40	0.35	5.47	187.58	0.22
DP-CS6	0.45	46.20	0.23	5.55	289.34	0.16
DP-E1	9.77	714.80	0.36	187.51	6250.30	0.11
DP-E10	6.63	559.10	0.36	127.27	4242.30	0.13
DP-E11	5.08	476.20	0.34	92.12	3251.33	0.15
DP-E12	4.92	469.50	0.33	86.65	3150.98	0.15
DP-E13	4.66	460.20	0.33	81.95	2979.97	0.15
DP-E14	3.78	375.80	0.28	56.45	2419.39	0.16
DP-E15	2.47	230.60	0.26	34.18	1577.66	0.15
DP-E16	2.27	203.90	0.26	31.53	1455.23	0.14
DP-E17	2.12	186.80	0.25	28.23	1355.20	0.14
DP-E18	1.89	158.50	0.24	24.13	1206.72	0.13
DP-E19	1.18	84.60	0.21	13.17	752.38	0.11
DP-E2	9.67	712.90	0.36	185.66	6188.67	0.12
DP-E20	0.60	19.50	0.07	2.22	380.93	0.05
DP-E21	0.42	10.90	0.06	1.33	266.05	0.04
DP-E22	0.29	8.50	0.06	0.91	182.98	0.05
DP-E3	9.51	707.90	0.36	182.58	6085.95	0.12
DP-E30	0.32	51.10	0.43	7.42	207.04	0.25
DP-E31	1.18	171.80	0.40	25.22	756.74	0.23
DP-E32	0.48	84.80	0.54	13.90	308.80	0.27
DP-E32A	0.29	52.90	0.58	9.00	186.11	0.28
DP-E33	0.48	63.30	0.30	7.68	307.33	0.21
DP-E34	0.13	31.40	0.75	5.29	84.61	0.37
DP-E35	0.30	61.70	0.62	9.95	192.64	0.32
DP-E36	0.94	118.80	0.31	15.56	602.50	0.20
DP-E37	0.49	63.30	0.30	7.84	313.54	0.20
DP-E38	0.42	57.90	0.33	7.43	270.34	0.21
DP-E39	0.38	60.60	0.42	8.55	244.29	0.25
DP-E4	9.21	699.80	0.37	181.68	5892.22	0.12
DP-E5	8.84	684.40	0.38	179.06	5654.46	0.12
DP-E6	8.71	675.30	0.38	176.44	5571.65	0.12
DP-E7	8.23	661.80	0.38	166.88	5269.89	0.13
DP-E8	7.40	625.50	0.38	150.02	4737.47	0.13
DP-E9	7.21	617.40	0.37	142.29	4614.85	0.13
DP-F1	4.23	105.80	0.07	15.78	2705.09	0.04
DP-F10	0.80	42.30	0.17	7.26	512.64	0.08
DP-F11	0.30	23.60	0.19	3.08	194.75	0.12
DP-F12	0.14	7.00	0.10	0.73	87.42	0.08
DP-F2	4.01	84.00	0.06	12.84	2567.81	0.03
DP-F21	0.12	10.80	0.19	1.21	76.54	0.14
DP-F23	0.66	30.30	0.09	3.15	420.22	0.07
DP-F3	3.85	61.00	0.05	10.25	2460.86	0.02
DP-F4	3.55	29.90	0.02	3.79	2273.60	0.01

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
DP-F5	3.33	141.40	0.21	37.33	2133.31	0.07
DP-F6	3.08	125.40	0.20	32.87	1972.16	0.06
DP-F7	2.80	119.00	0.19	28.32	1788.93	0.07
DP-F8	2.43	107.20	0.17	22.00	1552.83	0.07
DP-F9	2.08	91.90	0.16	17.75	1331.20	0.07
DP-J1	67.11	4524.60	0.38	1360.16	42952.45	0.11
DP-J10	60.68	4515.60	0.40	1294.47	38834.18	0.12
DP-J11	59.95	4510.80	0.40	1279.02	38370.56	0.12
DP-J12	59.77	4520.70	0.40	1275.07	38252.03	0.12
DP-J13	55.49	4526.30	0.39	1154.19	35513.66	0.13
DP-J14	54.59	4518.50	0.39	1135.38	34934.91	0.13
DP-J15	54.20	4520.80	0.39	1127.42	34689.92	0.13
DP-J16	53.92	4521.10	0.39	1121.59	34510.53	0.13
DP-J17	44.16	3832.60	0.40	942.01	28260.22	0.14
DP-J18	43.94	3832.80	0.40	937.49	28124.61	0.14
DP-J19	43.46	3823.20	0.40	927.12	27813.70	0.14
DP-J2	66.46	4527.70	0.38	1347.00	42536.83	0.11
DP-J20	42.72	3797.30	0.40	911.26	27337.92	0.14
DP-J21	41.99	3783.30	0.40	895.70	26871.04	0.14
DP-J22	36.64	3078.50	0.36	703.44	23448.00	0.13
DP-J23	36.19	3069.10	0.36	694.76	23158.78	0.13
DP-J24	31.60	3003.50	0.40	674.14	20224.06	0.15
DP-J25	14.84	1395.20	0.47	371.87	9494.59	0.15
DP-J26	14.10	1344.60	0.45	338.33	9022.21	0.15
DP-J27	13.74	1328.60	0.45	329.78	8794.11	0.15
DP-J28	12.29	1176.60	0.45	294.94	7865.15	0.15
DP-J29	11.68	1145.00	0.46	286.49	7473.73	0.15
DP-J3	66.11	4529.30	0.38	1339.91	42312.83	0.11
DP-J30	11.14	1081.60	0.44	261.32	7126.91	0.15
DP-J31	9.62	801.10	0.40	205.13	6153.79	0.13
DP-J32	8.48	730.70	0.36	162.73	5424.19	0.13
DP-J33	8.11	713.80	0.34	147.15	5193.54	0.14
DP-J34	7.94	704.50	0.33	139.67	5078.91	0.14
DP-J35	7.67	689.80	0.31	126.75	4906.37	0.14
DP-J36	7.57	686.00	0.31	125.09	4842.18	0.14
DP-J37	7.34	677.50	0.32	125.27	4697.73	0.14
DP-J38	6.80	665.80	0.34	123.28	4351.04	0.15
DP-J39	6.60	662.40	0.34	119.67	4223.68	0.16
DP-J4	64.13	4522.40	0.39	1334.00	41046.02	0.11
DP-J40	6.39	659.30	0.35	119.30	4090.37	0.16
DP-J41	4.67	418.00	0.31	77.29	2991.68	0.14
DP-J42	4.45	401.20	0.30	71.19	2847.62	0.14
DP-J43	4.19	383.20	0.29	64.78	2680.70	0.14
DP-J44	3.82	344.10	0.28	57.10	2446.98	0.14
DP-J45	3.50	303.10	0.27	50.40	2240.00	0.14
DP-J46	2.30	157.60	0.21	25.75	1471.42	0.11
DP-J47	2.13	136.10	0.18	20.43	1362.11	0.10
DP-J48	1.98	120.30	0.15	15.87	1269.31	0.09
DP-J49	1.41	73.20	0.12	9.02	901.89	0.08
DP-J5	64.03	4523.90	0.39	1331.86	40980.22	0.11

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
DP-J50	0.75	39.40	0.12	4.80	480.13	0.08
DP-J51	0.13	4.30	0.06	0.42	83.01	0.05
DP-J6	63.54	4528.00	0.39	1321.68	40667.01	0.11
DP-J7	63.36	4527.90	0.39	1317.83	40548.74	0.11
DP-J70	0.29	39.00	0.33	5.15	187.26	0.21
DP-J71	0.40	66.20	0.46	9.71	253.25	0.26
DP-J72	0.38	48.90	0.32	6.56	246.02	0.20
DP-J73	1.77	187.90	0.31	29.31	1134.66	0.17
DP-J74	1.25	149.40	0.32	21.37	801.34	0.19
DP-J75	0.37	43.10	0.29	5.78	239.04	0.18
DP-J76	0.61	78.00	0.34	10.99	387.78	0.20
DP-J77	0.40	52.20	0.34	7.20	254.08	0.21
DP-J78	0.47	126.00	0.95	24.00	303.10	0.42
DP-J79	0.74	125.10	0.47	18.66	476.42	0.26
DP-J8	63.18	4529.60	0.39	1314.20	40437.06	0.11
DP-J80	0.33	80.40	0.82	14.40	210.69	0.38
DP-J81	0.52	96.10	0.52	14.31	330.24	0.29
DP-J82	0.63	153.70	0.81	27.31	404.54	0.38
DP-J83	0.29	49.80	0.47	7.34	187.33	0.27
DP-J84	0.54	55.30	0.25	7.26	348.42	0.16
DP-J85	0.33	25.30	0.18	3.13	208.38	0.12
DP-J86	0.40	19.20	0.10	2.12	254.14	0.08
DP-J9	60.93	4516.50	0.40	1299.89	38996.61	0.12
DP-M0	5.18	721.20	0.70	193.45	3316.22	0.22
DP-M1	5.18	947.80	0.70	193.45	3316.22	0.29
DP-M10	0.58	17.00	0.08	2.46	368.90	0.05
DP-M11	0.37	71.80	0.64	12.76	239.17	0.30
DP-M2	5.02	934.20	0.70	187.53	3214.72	0.29
DP-M3	4.80	896.70	0.69	176.70	3073.09	0.29
DP-M4	4.57	846.20	0.68	165.81	2926.14	0.29
DP-M5	0.40	75.20	0.54	11.62	258.18	0.29
DP-M6	3.28	592.50	0.65	113.86	2102.02	0.28
DP-M7	0.71	149.80	0.70	26.34	451.58	0.33
DP-M8	2.44	413.20	0.62	80.68	1561.60	0.26
DP-M9	1.37	174.80	0.48	35.02	875.58	0.20
DP-O1	1.22	104.00	0.20	13.02	780.99	0.13
DP-O2	1.08	104.30	0.22	12.70	692.48	0.15
DP-O3	0.96	98.40	0.23	11.76	613.70	0.16
DP-O5	0.82	91.00	0.25	10.98	526.98	0.17
DP-O6	0.38	37.30	0.21	4.24	242.18	0.15
DP-SM1	0.21	147.60	3.66	41.44	135.87	1.09
DP-SM10	2.45	312.90	0.36	47.05	1568.38	0.20
DP-SM11	0.41	68.60	0.48	10.39	259.84	0.26
DP-SM12	0.60	91.90	0.42	13.52	386.18	0.24
DP-SM13	0.44	69.40	0.44	10.36	282.50	0.25
DP-SM14	1.70	214.30	0.36	32.67	1089.02	0.20
DP-SM15	1.30	155.30	0.34	23.49	829.18	0.19
DP-SM16	0.44	58.60	0.35	8.22	281.79	0.21
DP-SM17	0.76	91.10	0.33	13.37	486.02	0.19
DP-SM18	0.45	61.10	0.37	8.93	289.54	0.21

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
DP-SM1A	0.00	141.40		#VALUE!	0.00	#DIV/0!
DP-SM2	5.18	598.20	0.35	96.61	3312.51	0.18
DP-SM3	5.03	597.50	0.36	96.63	3221.12	0.19
DP-SM4	4.77	576.90	0.35	89.09	3054.59	0.19
DP-SM5	4.63	573.40	0.36	88.87	2962.43	0.19
DP-SM6	2.85	367.60	0.38	57.85	1826.88	0.20
DP-SM7	0.83	118.70	0.39	17.30	532.42	0.22
DP-SM8	2.63	336.80	0.37	51.89	1682.82	0.20
DP-SM9	0.63	101.20	0.45	15.03	400.83	0.25
DP-WF	4.14	1086.00	0.56	123.65	2649.60	0.41
E1	0.10	14.40	0.36	1.85	61.63	0.23
E10	0.15	16.70	0.27	2.23	98.94	0.17
E11	0.16	23.40	0.38	3.25	102.53	0.23
E12	0.24	37.90	0.43	5.41	150.85	0.25
E13	0.09	15.90	0.49	2.35	57.54	0.28
E14	0.19	34.30	0.49	4.97	121.66	0.28
E15	0.16	25.40	0.44	3.66	99.84	0.25
E16	0.19	44.40	0.74	7.56	122.62	0.36
E17	0.26	46.80	0.50	6.90	165.50	0.28
E18	0.09	14.20	0.41	2.01	58.94	0.24
E-19	0.19	34.70	0.51	5.26	123.71	0.28
E19A	0.08	12.90	0.39	1.68	51.58	0.25
E2	0.16	23.40	0.35	3.00	102.72	0.23
E20	0.22	28.30	0.30	3.49	139.78	0.20
E21	0.11	24.60	0.72	4.04	67.26	0.37
E22	0.07	6.50	0.22	0.82	44.61	0.15
E23	0.12	21.30	0.51	3.16	74.37	0.29
E24	0.14	13.30	0.23	1.72	89.60	0.15
E24A	0.08	12.10	0.39	1.66	51.01	0.24
E25	0.25	35.60	0.33	4.46	162.11	0.22
E26	0.09	15.30	0.48	2.26	56.38	0.27
E26A	0.09	22.80	0.90	4.18	55.74	0.41
E27	0.23	27.70	0.27	3.27	145.22	0.19
E28	0.10	18.50	0.48	2.65	66.30	0.28
E29	0.15	12.60	0.19	1.53	96.64	0.13
E3	0.15	4.50	0.05	0.41	97.86	0.05
E30	0.16	26.00	0.44	3.72	101.50	0.26
E31	0.13	31.40	0.75	5.29	84.61	0.37
E32	0.18	34.20	0.55	5.17	112.70	0.30
E33	0.12	29.10	0.73	4.86	79.94	0.36
E34	0.17	39.00	0.73	6.48	106.56	0.37
E35	0.17	30.10	0.48	4.32	107.97	0.28
E36	0.09	17.50	0.54	2.70	59.97	0.29
E36A	0.15	20.80	0.37	2.88	93.44	0.22
E37	0.04	6.40	0.44	0.88	23.94	0.27
E37A	0.03	4.90	0.36	0.61	20.22	0.24
E38	0.20	24.20	0.27	2.86	126.91	0.19
E39	0.25	35.20	0.34	4.59	162.05	0.22
E4	0.15	10.20	0.13	1.04	95.87	0.11
E40	0.07	5.40	0.17	0.61	43.20	0.13

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
E41	0.14	20.20	0.34	2.62	92.61	0.22
E42	0.14	19.80	0.34	2.55	90.05	0.22
E43	0.14	18.00	0.29	2.12	87.68	0.21
E44	0.21	30.30	0.35	3.99	136.83	0.22
E45	0.09	6.00	0.14	0.68	58.24	0.10
E46	0.19	29.00	0.38	3.88	122.43	0.24
E47	0.16	22.30	0.33	2.75	100.03	0.22
E48	0.23	30.20	0.30	3.71	148.48	0.20
E49	0.17	14.80	0.23	2.03	106.05	0.14
E5	0.15	12.30	0.22	1.74	94.78	0.13
E50	0.25	38.50	0.40	5.27	158.08	0.24
E51	0.17	24.50	0.35	3.11	106.69	0.23
E52	0.13	10.20	0.16	1.11	83.52	0.12
E53	0.09	11.70	0.31	1.45	56.19	0.21
E54	0.16	28.30	0.46	4.00	104.45	0.27
E55	0.22	32.50	0.39	4.54	139.84	0.23
E56	0.11	5.20	0.10	0.59	70.98	0.07
E57	0.18	9.70	0.11	1.05	114.88	0.08
E58	0.13	3.80	0.05	0.35	83.07	0.05
E59	0.11	3.30	0.06	0.35	69.82	0.05
E6	0.22	25.30	0.31	3.69	142.98	0.18
E60	0.18	5.20	0.06	0.57	113.15	0.05
E7	0.14	8.40	0.13	0.94	87.04	0.10
E8	0.13	14.60	0.37	2.55	82.82	0.18
E9	0.18	25.40	0.37	3.57	115.78	0.22
F1	0.21	22.20	0.27	3.09	137.28	0.16
F10	0.19	17.50	0.23	2.32	121.09	0.14
F11	0.18	29.10	0.43	4.12	115.01	0.25
F12	0.18	11.80	0.17	1.65	116.22	0.10
F13	0.26	21.90	0.19	2.65	167.62	0.13
F14	0.23	13.20	0.13	1.63	150.27	0.09
F15	0.15	10.80	0.18	1.43	95.55	0.11
F16	0.14	12.60	0.18	1.39	92.42	0.14
F17	0.21	19.60	0.24	2.68	133.82	0.15
F18	0.16	18.20	0.31	2.72	105.41	0.17
F19	0.17	20.10	0.26	2.33	107.33	0.19
F2	0.17	24.50	0.39	3.48	106.94	0.23
F20	0.14	7.00	0.10	0.73	87.42	0.08
F21	0.12	10.80	0.19	1.21	76.54	0.14
F22	0.18	16.90	0.19	1.80	113.92	0.15
F23	0.25	7.30	0.05	0.66	158.66	0.05
F24	0.23	7.70	0.06	0.74	147.65	0.05
F3	0.18	18.00	0.27	2.59	115.26	0.16
F4	0.11	16.30	0.37	2.22	72.00	0.23
F5	0.22	29.90	0.38	4.44	140.29	0.21
F6	0.12	11.90	0.26	1.60	73.86	0.16
F7	0.14	24.20	0.50	3.64	87.30	0.28
F8	0.17	18.40	0.25	2.27	108.93	0.17
F9	0.12	18.40	0.41	2.54	74.30	0.25
JC1	0.10	3.00	0.08	0.41	61.38	0.05

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
JC10	0.16	23.30	0.38	3.15	99.58	0.23
JC100	0.27	70.20	0.90	12.94	172.54	0.41
JC101	0.10	18.00	0.48	2.57	64.19	0.28
JC102	0.23	17.70	0.18	2.17	144.45	0.12
JC103	0.20	8.90	0.09	0.96	128.51	0.07
JC104	0.22	9.30	0.08	0.92	137.98	0.07
JC105	0.13	1.90	0.03	0.20	80.19	0.02
JC106	0.21	4.30	0.04	0.44	133.31	0.03
JC107	0.20	3.80	0.04	0.42	127.36	0.03
JC108	0.16	23.50	0.38	3.31	104.38	0.23
JC109	0.23	38.00	0.49	5.88	144.06	0.26
JC11	0.10	8.50	0.16	0.88	65.79	0.13
JC110	0.26	38.30	0.39	5.42	166.91	0.23
JC111	0.20	25.50	0.34	3.55	125.38	0.20
JC112	0.17	27.40	0.45	4.06	108.35	0.25
JC113	0.20	27.40	0.35	3.76	129.02	0.21
JC114	0.12	19.60	0.45	2.92	77.95	0.25
JC115	0.19	38.00	0.58	5.82	120.51	0.32
JC116	0.23	49.00	0.67	8.08	144.64	0.34
JC117	0.24	28.30	0.32	4.13	155.01	0.18
JC118	0.17	33.40	0.58	5.28	109.31	0.31
JC119	0.15	27.90	0.57	4.41	92.80	0.30
JC12	0.09	11.30	0.28	1.31	56.32	0.20
JC120	0.25	27.30	0.28	3.71	159.04	0.17
JC121	0.20	17.90	0.21	2.25	128.51	0.14
JC122	0.12	8.50	0.14	0.93	79.87	0.11
JC123	0.30	29.80	0.25	3.97	190.66	0.16
JC124	0.25	25.50	0.25	3.29	157.76	0.16
JC125	0.12	9.10	0.16	0.99	74.50	0.12
JC126	0.21	11.70	0.12	1.36	136.45	0.09
JC127	0.15	10.30	0.14	1.09	93.12	0.11
JC128	0.18	7.50	0.08	0.78	117.70	0.06
JC129	0.21	14.20	0.15	1.64	131.52	0.11
JC13	0.08	0.30	0.01	0.04	53.06	0.01
JC130	0.20	14.20	0.16	1.73	129.92	0.11
JC131	0.21	8.60	0.09	1.02	135.68	0.06
JC132	0.13	4.30	0.06	0.42	83.01	0.05
JC14	0.12	8.00	0.13	0.81	74.82	0.11
JC15	0.18	7.00	0.07	0.69	118.27	0.06
JC16	0.17	10.90	0.14	1.30	111.68	0.10
JC17	0.24	11.90	0.11	1.39	151.94	0.08
JC18	0.14	0.40	0.01	0.07	86.46	0.00
JC19	0.18	2.80	0.04	0.38	115.20	0.02
JC2	0.18	23.90	0.34	3.32	117.18	0.20
JC20	0.16	2.80	0.08	0.67	100.48	0.03
JC21	0.19	31.80	0.45	4.44	118.53	0.27
JC22	0.10	15.20	0.38	1.96	61.95	0.25
JC23	0.19	16.90	0.20	2.02	121.02	0.14
JC24	0.14	7.70	0.13	0.97	89.34	0.09
JC25	0.21	38.90	0.50	5.71	136.96	0.28

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
JC26	0.18	29.50	0.41	3.97	116.29	0.25
JC27	0.14	6.40	0.15	1.11	88.77	0.07
JC28	0.12	8.50	0.17	1.06	75.07	0.11
JC29	0.19	25.40	0.31	3.21	124.22	0.20
JC3	0.17	3.80	0.06	0.54	107.71	0.04
JC30	0.19	23.70	0.32	3.25	121.79	0.19
JC31	0.15	11.00	0.26	2.05	94.59	0.12
JC32	0.25	31.20	0.29	3.94	163.07	0.19
JC33	0.18	38.40	0.68	6.39	112.70	0.34
JC34	0.21	27.00	0.29	3.20	132.29	0.20
JC35	0.13	8.30	0.22	1.53	83.65	0.10
JC36	0.15	17.20	0.24	1.91	95.74	0.18
JC37	0.21	3.50	0.05	0.57	135.62	0.03
JC38	0.19	28.50	0.45	4.53	120.70	0.24
JC39	0.12	3.40	0.07	0.47	79.81	0.04
JC4	0.20	4.00	0.06	0.65	129.34	0.03
JC40	0.17	30.30	0.47	4.32	110.40	0.27
JC41	0.24	32.20	0.33	4.14	150.46	0.21
JC42	0.26	49.90	0.62	8.50	164.61	0.30
JC43	0.25	41.60	0.49	6.56	160.70	0.26
JC44	0.16	34.00	0.63	5.49	104.58	0.33
JC45	0.24	27.10	0.24	3.07	153.28	0.18
JC46	0.15	9.30	0.15	1.18	94.78	0.10
JC47	0.18	1.20	0.02	0.19	114.24	0.01
JC48	0.17	8.00	0.12	1.07	106.82	0.07
JC49	0.20	14.50	0.17	1.77	125.06	0.12
JC5	0.16	0.80	0.02	0.17	102.40	0.01
JC50	0.26	22.00	0.18	2.46	164.16	0.13
JC51	0.11	6.20	0.17	0.97	68.35	0.09
JC52	0.25	19.40	0.20	2.69	161.28	0.12
JC53	0.12	15.10	0.31	2.04	78.85	0.19
JC54	0.15	20.40	0.34	2.72	96.00	0.21
JC55	0.14	16.80	0.26	1.92	88.58	0.19
JC56	0.23	24.80	0.26	3.22	148.74	0.17
JC57	0.26	46.50	0.51	7.19	169.28	0.27
JC58	0.23	61.00	0.95	11.50	145.28	0.42
JC59	0.25	65.60	0.94	12.36	157.82	0.42
JC6	0.19	16.00	0.19	1.93	121.60	0.13
JC60	0.25	33.10	0.32	4.34	162.75	0.20
JC61	0.08	5.80	0.17	0.74	52.42	0.11
JC62	0.19	27.30	0.38	3.87	122.11	0.22
JC63	0.10	25.40	0.82	4.47	65.34	0.39
JC64	0.21	29.90	0.36	4.01	133.70	0.22
JC65	0.17	21.60	0.31	2.76	107.01	0.20
JC66	0.17	23.60	0.34	3.10	109.31	0.22
JC67	0.23	32.10	0.34	4.14	146.18	0.22
JC68	0.19	44.20	0.76	7.53	118.91	0.37
JC69	0.21	0.00	0.00	0.00	132.54	0.00
JC7	0.09	7.50	0.18	0.90	60.03	0.12
JC70	0.21	24.90	0.28	3.08	132.03	0.19

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
JC71	0.23	27.00	0.28	3.39	145.47	0.19
JC72	0.17	25.20	0.41	3.71	108.61	0.23
JC73	0.14	37.10	0.90	6.88	91.78	0.40
JC74	0.23	41.50	0.49	6.12	149.82	0.28
JC75	0.28	54.60	0.55	8.27	180.42	0.30
JC76	0.24	22.70	0.20	2.53	151.55	0.15
JC77	0.25	39.10	0.40	5.43	163.01	0.24
JC78	0.12	10.80	0.21	1.35	76.86	0.14
JC79	0.15	35.00	0.77	6.02	93.76	0.37
JC8	0.20	13.50	0.15	1.61	129.15	0.10
JC80	0.21	54.70	0.90	10.01	133.44	0.41
JC81	0.19	39.50	0.64	6.38	119.62	0.33
JC82	0.22	37.20	0.49	5.73	140.29	0.27
JC83	0.28	49.40	0.54	8.05	178.82	0.28
JC84	0.14	33.30	0.84	6.05	86.46	0.39
JC85	0.25	53.90	0.66	8.97	163.01	0.33
JC86	0.18	43.10	0.79	7.47	113.41	0.38
JC87	0.17	32.50	0.55	4.88	106.56	0.30
JC88	0.19	51.50	0.96	9.80	122.56	0.42
JC89	0.10	26.80	1.00	5.17	62.02	0.43
JC9	0.14	16.40	0.28	2.05	87.68	0.19
JC90	0.20	44.40	0.65	7.09	130.82	0.34
JC91	0.10	26.60	0.86	4.78	66.75	0.40
JC92	0.12	27.30	0.74	4.58	74.30	0.37
JC93	0.20	50.50	0.85	8.99	126.98	0.40
JC94	0.22	58.30	0.90	10.76	143.42	0.41
JC95	0.20	40.00	0.59	6.26	127.23	0.31
JC96	0.09	9.90	0.21	1.05	60.10	0.16
JC97	0.22	50.20	0.72	8.42	140.29	0.36
JC98	0.14	27.50	0.55	4.14	90.37	0.30
JC99	0.18	44.10	0.81	7.74	114.62	0.38
M1	0.16	38.80	0.80	6.77	101.50	0.38
M10	0.14	36.00	0.92	6.81	88.83	0.41
M11	0.11	29.10	0.96	5.52	69.06	0.42
M12	0.17	31.50	0.53	4.69	106.24	0.30
M13	0.23	53.60	0.78	9.39	144.45	0.37
M14	0.11	29.10	0.88	5.33	72.70	0.40
M15	0.09	12.80	0.31	1.53	59.14	0.22
M16	0.23	38.00	0.44	5.45	148.54	0.26
M17	0.28	77.40	0.99	15.02	182.02	0.43
M18	0.26	67.00	0.93	12.67	163.46	0.41
M19	0.30	70.80	0.78	12.48	192.00	0.37
M2	0.22	59.40	0.96	11.33	141.63	0.42
M20	0.14	4.30	0.08	0.60	89.54	0.05
M21	0.23	5.70	0.05	0.61	146.56	0.04
M22	0.10	24.80	0.77	4.24	66.11	0.38
M23	0.21	8.00	0.10	1.11	132.80	0.06
M24	0.16	42.40	0.98	8.13	99.58	0.43
M25	0.16	42.40	0.94	7.98	101.82	0.42
M26	0.18	44.30	0.90	8.57	114.30	0.39

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
M27	0.20	27.70	0.40	4.16	124.86	0.22
M3	0.23	59.10	0.89	10.90	146.94	0.40
M4	0.23	62.20	0.96	11.86	148.22	0.42
M5	0.18	42.30	0.74	7.10	115.07	0.37
M6	0.22	33.60	0.37	4.41	143.10	0.23
M7	0.17	46.30	0.97	8.77	108.54	0.43
M8	0.25	68.00	1.03	13.61	158.53	0.43
M9	0.24	31.70	0.40	5.02	150.66	0.21
MRK-1	5.18	721.20	0.70	193.45	3316.22	0.22
O1	0.14	0.40	0.01	0.07	88.51	0.00
O2	0.12	8.00	0.13	0.85	78.78	0.10
O3	0.14	7.60	0.12	0.87	86.72	0.09
O4	0.22	33.10	0.36	4.28	142.72	0.23
O5	0.22	22.60	0.21	2.49	142.08	0.16
O6	0.23	22.90	0.21	2.61	149.25	0.15
O7	0.15	15.40	0.21	1.63	92.93	0.17
R-B1	1.39	244.10	0.51	37.82	889.86	0.27
R-B2	1.12	201.80	0.52	31.06	716.67	0.28
R-B5	0.55	97.60	0.49	14.35	351.42	0.28
R-B8	0.27	41.90	0.40	5.67	170.05	0.25
R-C11	6.52	531.60	0.27	93.93	4174.46	0.13
R-C12	6.16	514.30	0.27	88.63	3939.20	0.13
R-C14	0.38	58.20	0.40	8.10	243.14	0.24
R-C15	0.22	33.00	0.38	4.45	140.61	0.23
R-C16	5.21	447.40	0.25	69.48	3335.17	0.13
R-C19	0.85	72.60	0.21	9.51	543.62	0.13
R-C1A	14.68	1454.90	0.35	273.95	9392.64	0.15
R-C1B	14.30	1310.00	0.30	228.84	9153.73	0.14
R-C1B2	13.74	1290.20	0.31	227.19	8794.56	0.15
R-C2	8.25	688.90	0.29	127.62	5281.02	0.13
R-C20A	3.96	362.00	0.25	52.86	2537.15	0.14
R-C20B	0.13	24.70	0.55	3.82	83.39	0.30
R-C22	0.47	40.30	0.19	4.80	303.30	0.13
R-C24	0.32	26.90	0.18	3.11	207.42	0.13
R-C27	0.54	39.50	0.17	4.88	344.38	0.11
R-C3	0.76	107.70	0.40	16.25	487.62	0.22
R-C31	2.58	237.00	0.24	33.01	1650.50	0.14
R-C32	0.26	46.70	0.48	6.71	167.74	0.28
R-C35	0.21	17.00	0.16	1.80	135.04	0.13
R-C37	0.14	17.30	0.29	2.13	88.26	0.20
R-C39	0.34	56.40	0.44	7.95	216.70	0.26
R-C42A	1.58	138.20	0.23	19.39	1011.52	0.14
R-C42B	1.28	115.20	0.22	15.00	817.98	0.14
R-C43	0.57	53.10	0.23	6.94	361.92	0.15
R-C45	0.30	41.40	0.35	5.61	192.19	0.22
R-C48	0.21	29.20	0.35	3.88	133.12	0.22
R-C6	0.23	42.00	0.51	6.36	149.63	0.28
R-C8	0.35	47.80	0.39	7.20	221.63	0.22
R-C9	0.21	33.50	0.41	4.65	136.13	0.25
R-CS1A	0.37	67.90	0.53	10.49	237.50	0.29

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
R-CS1B	1.42	164.20	0.30	22.80	911.94	0.18
R-CS3	1.08	129.20	0.31	17.77	688.00	0.19
R-CS4	0.45	46.10	0.23	5.55	289.34	0.16
R-CS5	0.29	40.40	0.35	5.47	187.58	0.22
R-E1	9.67	711.60	0.36	185.66	6188.67	0.11
R-E10	8.23	659.90	0.38	166.88	5269.89	0.13
R-E11	0.24	37.50	0.43	5.41	150.85	0.25
R-E13	0.19	34.10	0.49	4.97	121.66	0.28
R-E15	7.40	623.00	0.38	150.02	4737.47	0.13
R-E16	7.21	615.50	0.37	142.29	4614.85	0.13
R-E17A	6.63	558.90	0.36	127.27	4242.30	0.13
R-E17B	5.08	476.10	0.34	92.12	3251.33	0.15
R-E17C	0.32	50.80	0.43	7.42	207.04	0.25
R-E19	1.18	171.60	0.40	25.22	756.74	0.23
R-E19A	0.08	12.80	0.39	1.68	51.58	0.25
R-E19B	0.09	14.20	0.41	2.01	58.94	0.24
R-E2	9.51	707.60	0.36	182.58	6085.95	0.12
R-E20	0.11	24.40	0.72	4.04	67.26	0.36
R-E22	4.92	469.40	0.33	86.65	3150.98	0.15
R-E23	4.66	460.00	0.33	81.95	2979.97	0.15
R-E24	0.48	63.00	0.30	7.68	307.33	0.20
R-E24A	0.08	12.10	0.39	1.66	51.01	0.24
R-E26	0.48	84.80	0.54	13.90	308.80	0.27
R-E26A	0.29	52.80	0.58	9.00	186.11	0.28
R-E26B	0.10	18.50	0.48	2.65	66.30	0.28
R-E3	9.21	699.00	0.37	181.68	5892.22	0.12
R-E30	0.13	31.30	0.76	5.36	84.61	0.37
R-E31	0.30	60.90	0.62	9.95	192.64	0.32
R-E33	0.18	34.10	0.55	5.17	112.70	0.30
R-E36	3.78	375.10	0.28	56.45	2419.39	0.16
R-E36A	0.09	17.40	0.54	2.70	59.97	0.29
R-E36B	0.17	30.00	0.48	4.32	107.97	0.28
R-E37	0.94	118.60	0.31	15.56	602.50	0.20
R-E38	0.49	63.20	0.30	7.84	313.54	0.20
R-E3A	0.15	10.20	0.13	1.04	95.87	0.11
R-E40	0.42	57.90	0.33	7.43	270.34	0.21
R-E44	2.47	229.60	0.26	34.18	1577.66	0.15
R-E46	2.27	203.50	0.26	31.53	1455.23	0.14
R-E47	2.12	186.50	0.25	28.23	1355.20	0.14
R-E48	1.89	158.30	0.24	24.13	1206.72	0.13
R-E49	1.18	84.40	0.21	13.17	752.38	0.11
R-E53	0.38	60.50	0.42	8.55	244.29	0.25
R-E56	0.60	19.50	0.07	2.22	380.93	0.05
R-E57	0.42	10.90	0.06	1.33	266.05	0.04
R-E58	0.29	8.50	0.06	0.91	182.98	0.05
R-E6	8.84	682.40	0.38	179.06	5654.46	0.12
R-E8	8.71	673.80	0.38	176.44	5571.65	0.12
R-F1	4.01	83.90	0.06	12.84	2567.81	0.03
R-F10	2.43	107.00	0.17	22.00	1552.83	0.07
R-F12	0.80	42.10	0.17	7.26	512.64	0.08

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
R-F14	0.30	23.40	0.19	3.08	194.75	0.12
R-F15	0.12	10.80	0.19	1.21	76.54	0.14
R-F17	0.66	30.20	0.09	3.15	420.22	0.07
R-F18	2.08	91.80	0.16	17.75	1331.20	0.07
R-F19	0.14	7.00	0.10	0.73	87.42	0.08
R-F2	3.85	61.00	0.05	10.25	2460.86	0.02
R-F23	0.18	16.80	0.19	1.80	113.92	0.15
R-F4	3.55	29.90	0.02	3.79	2273.60	0.01
R-F5A	3.33	0.00	0.00	0.00	2133.31	0.00
R-F5B	0.00	140.80		#VALUE!	0.00	#DIV/0!
R-F6	3.08	125.30	0.20	32.87	1972.16	0.06
R-F8	2.80	118.90	0.19	28.32	1788.93	0.07
R-J1	0.18	23.80	0.34	3.32	117.18	0.20
R-J100	7.67	689.60	0.31	126.75	4906.37	0.14
R-J101	7.57	685.90	0.31	125.09	4842.18	0.14
R-J101B	7.34	677.30	0.32	125.27	4697.73	0.14
R-J102	6.80	665.70	0.34	123.28	4351.04	0.15
R-J102B	6.60	662.30	0.34	119.67	4223.68	0.16
R-J106	6.39	658.90	0.35	119.30	4090.37	0.16
R-J107	4.67	417.90	0.31	77.29	2991.68	0.14
R-J108	4.45	401.00	0.30	71.19	2847.62	0.14
R-J11	64.03	4522.00	0.39	1331.86	40980.22	0.11
R-J110	4.19	382.90	0.29	64.78	2680.70	0.14
R-J111	3.82	343.80	0.28	57.10	2446.98	0.14
R-J113	3.50	302.90	0.27	50.40	2240.00	0.14
R-J114	2.30	157.60	0.21	25.75	1471.42	0.11
R-J116	0.54	55.30	0.25	7.26	348.42	0.16
R-J118	2.13	136.00	0.18	20.43	1362.11	0.10
R-J119	1.98	120.20	0.15	15.87	1269.31	0.09
R-J119B	0.33	25.30	0.18	3.13	208.38	0.12
R-J120	1.41	73.10	0.12	9.02	901.89	0.08
R-J120B	0.12	8.50	0.14	0.93	79.87	0.11
R-J125	0.40	19.20	0.10	2.12	254.14	0.08
R-J127	0.75	39.40	0.12	4.80	480.13	0.08
R-J131	0.13	4.30	0.06	0.42	83.01	0.05
R-J14	63.54	4522.10	0.39	1321.68	40667.01	0.11
R-J15	63.36	4527.40	0.39	1317.83	40548.74	0.11
R-J16	63.18	4527.10	0.39	1314.20	40437.06	0.11
R-J19	60.93	4509.90	0.40	1299.89	38996.61	0.12
R-J20	59.77	4509.30	0.40	1275.07	38252.03	0.12
R-J20B	0.19	31.60	0.45	4.44	118.53	0.27
R-J22	60.68	4513.30	0.40	1294.47	38834.18	0.12
R-J23	0.40	66.10	0.46	9.71	253.25	0.26
R-J24	59.95	4509.20	0.40	1279.02	38370.56	0.12
R-J25	0.18	29.30	0.41	3.97	116.29	0.25
R-J27	55.49	4517.40	0.39	1154.19	35513.66	0.13
R-J28	0.38	48.80	0.32	6.56	246.02	0.20
R-J3	66.46	4521.60	0.38	1347.00	42536.83	0.11
R-J31	54.59	4511.50	0.39	1135.38	34934.91	0.13
R-J33	54.20	4515.00	0.39	1127.42	34689.92	0.13

	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
R-J35	44.16	3831.70	0.40	942.01	28260.22	0.14
R-J36	53.92	4514.20	0.39	1121.59	34510.53	0.13
R-J37	43.94	3830.00	0.40	937.49	28124.61	0.14
R-J38	43.46	3816.70	0.40	927.12	27813.70	0.14
R-J38B	0.17	30.10	0.47	4.32	110.40	0.27
R-J41	42.72	3795.50	0.40	911.26	27337.92	0.14
R-J44	0.24	26.90	0.24	3.07	153.28	0.18
R-J46	41.99	3780.30	0.40	895.70	26871.04	0.14
R-J48	36.64	3074.40	0.36	703.44	23448.00	0.13
R-J49	36.19	3067.30	0.36	694.76	23158.78	0.13
R-J51	31.60	3002.00	0.40	674.14	20224.06	0.15
R-J53	14.84	1394.80	0.47	371.87	9494.59	0.15
R-J53B	1.77	187.80	0.31	29.31	1134.66	0.17
R-J54	0.14	16.70	0.27	1.99	88.58	0.19
R-J56	1.25	149.10	0.32	21.37	801.34	0.19
R-J57	14.10	1344.00	0.45	338.33	9022.21	0.15
R-J57B	0.47	125.80	0.95	24.00	303.10	0.42
R-J58	0.25	65.60	0.94	12.36	157.82	0.42
R-J5A	66.11	4526.40	0.38	1339.91	42312.83	0.11
R-J5B	0.19	16.00	0.19	1.93	121.60	0.13
R-J60	13.74	1328.00	0.45	329.78	8794.11	0.15
R-J60B	0.10	25.40	0.82	4.47	65.34	0.39
R-J61	0.37	43.00	0.29	5.78	239.04	0.18
R-J62	0.61	77.80	0.34	10.99	387.78	0.20
R-J64	0.40	52.00	0.34	7.20	254.08	0.20
R-J65	0.21	24.80	0.28	3.08	132.03	0.19
R-J66	0.74	124.70	0.47	18.66	476.42	0.26
R-J66B	0.33	80.30	0.82	14.40	210.69	0.38
R-J67	0.52	95.90	0.52	14.31	330.24	0.29
R-J68	0.14	37.10	0.90	6.88	91.78	0.40
R-J69	12.29	1173.90	0.45	294.94	7865.15	0.15
R-J76	11.68	1143.40	0.46	286.49	7473.73	0.15
R-J78	0.21	54.60	0.90	10.01	133.44	0.41
R-J8	64.13	4515.60	0.39	1334.00	41046.02	0.11
R-J81	11.14	1081.30	0.44	261.32	7126.91	0.15
R-J82	9.62	800.70	0.40	205.13	6153.79	0.13
R-J84	0.63	153.50	0.81	27.31	404.54	0.38
R-J8B	0.29	39.00	0.33	5.15	187.26	0.21
R-J8C	0.09	11.20	0.28	1.31	56.32	0.20
R-J9	0.16	23.20	0.38	3.15	99.58	0.23
R-J90	8.48	730.40	0.36	162.73	5424.19	0.13
R-J92	0.22	58.20	0.90	10.76	143.42	0.41
R-J93	0.29	49.70	0.47	7.34	187.33	0.27
R-J98	8.11	713.60	0.34	147.15	5193.54	0.14
R-J99	7.94	704.40	0.33	139.67	5078.91	0.14
R-M1	5.02	933.30	0.70	187.53	3214.72	0.29
R-M10A	0.71	149.60	0.70	26.34	451.58	0.33
R-M10B	2.44	413.00	0.62	80.68	1561.60	0.26
R-M11	0.17	31.40	0.53	4.69	106.24	0.30
R-M13	0.09	12.70	0.32	1.58	59.14	0.21

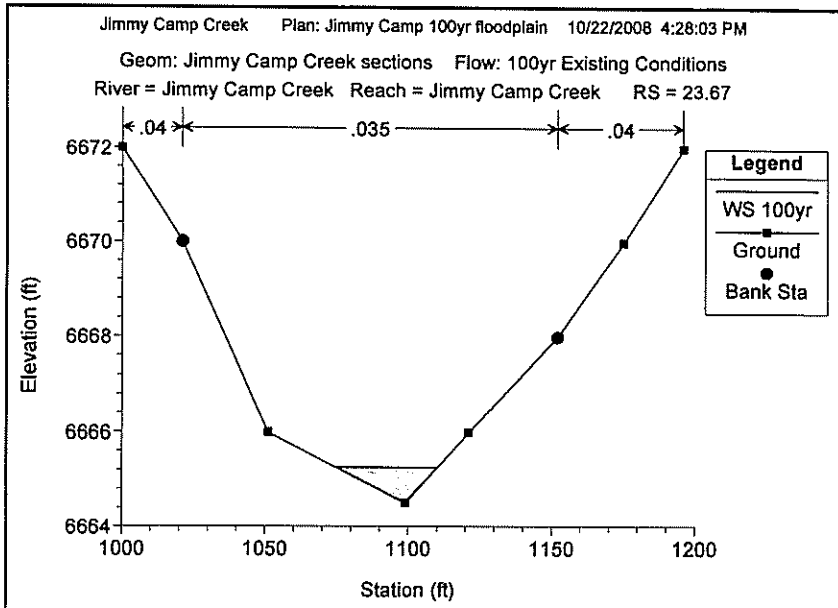
	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
R-M18	1.37	174.50	0.48	35.02	875.58	0.20
R-M2	4.80	895.30	0.69	176.70	3073.09	0.29
R-M20	0.23	5.70	0.05	0.61	146.56	0.04
R-M22	0.58	17.00	0.08	2.46	368.90	0.05
R-M25	0.37	71.80	0.64	12.76	239.17	0.30
R-M3	4.57	845.80	0.68	165.81	2926.14	0.29
R-M4A	3.28	591.60	0.65	113.86	2102.02	0.28
R-M4B	0.17	46.20	0.97	8.77	108.54	0.43
R-M4C	0.40	75.10	0.54	11.62	258.18	0.29
R-M5	0.22	33.60	0.37	4.41	143.10	0.23
R-O1	1.08	103.60	0.22	12.70	692.48	0.15
R-O2	0.96	98.00	0.23	11.76	613.70	0.16
R-O3	0.82	90.80	0.25	10.98	526.98	0.17
R-O4	0.22	22.60	0.21	2.49	142.08	0.16
R-O6	0.15	15.30	0.21	1.63	92.93	0.16
R-SM10	0.19	22.40	0.25	2.56	123.07	0.18
R-SM12	0.83	118.40	0.39	17.30	532.42	0.22
R-SM13	0.63	101.10	0.45	15.03	400.83	0.25
R-SM14	2.85	367.10	0.38	57.85	1826.88	0.20
R-SM15	2.63	336.50	0.37	51.89	1682.82	0.20
R-SM16	2.45	312.80	0.36	47.05	1568.38	0.20
R-SM17A	0.60	91.90	0.42	13.52	386.18	0.24
R-SM17B	1.70	213.90	0.36	32.67	1089.02	0.20
R-SM18	0.41	68.60	0.48	10.39	259.84	0.26
R-SM2	0.15	14.90	0.21	1.69	96.58	0.15
R-SM21	0.44	69.40	0.44	10.36	282.50	0.25
R-SM23	0.05	6.50	0.34	0.84	29.76	0.22
R-SM26A	1.30	155.30	0.34	23.49	829.18	0.19
R-SM26B	0.76	91.00	0.33	13.37	486.02	0.19
R-SM27	0.44	58.60	0.35	8.22	281.79	0.21
R-SM31	0.45	61.10	0.37	8.93	289.54	0.21
R-SM5	5.18	597.50	0.35	96.61	3312.51	0.18
R-SM6A	5.03	597.00	0.36	96.63	3221.12	0.19
R-SM6B	4.77	576.70	0.35	89.09	3054.59	0.19
R-SM7	4.63	573.00	0.36	88.87	2962.43	0.19
SM1	0.21	25.80	0.29	3.28	135.87	0.19
SM10	0.13	9.40	0.16	1.15	85.89	0.11
SM11	0.19	22.50	0.25	2.56	123.07	0.18
SM12	0.23	19.50	0.20	2.43	145.86	0.13
SM13	0.21	21.30	0.22	2.41	131.58	0.16
SM14	0.15	10.40	0.16	1.30	97.60	0.11
SM15	0.23	43.50	0.55	6.60	144.06	0.30
SM16	0.18	31.40	0.48	4.58	114.43	0.27
SM17	0.15	10.60	0.15	1.16	93.18	0.11
SM18	0.22	33.70	0.38	4.46	140.99	0.24
SM19	0.19	33.70	0.51	5.28	124.29	0.27
SM2	0.16	14.90	0.20	1.70	101.76	0.15
SM20	0.21	34.90	0.46	5.20	135.55	0.26
SM21	0.16	24.40	0.36	3.11	103.68	0.24
SM22	0.12	20.10	0.47	2.93	74.88	0.27

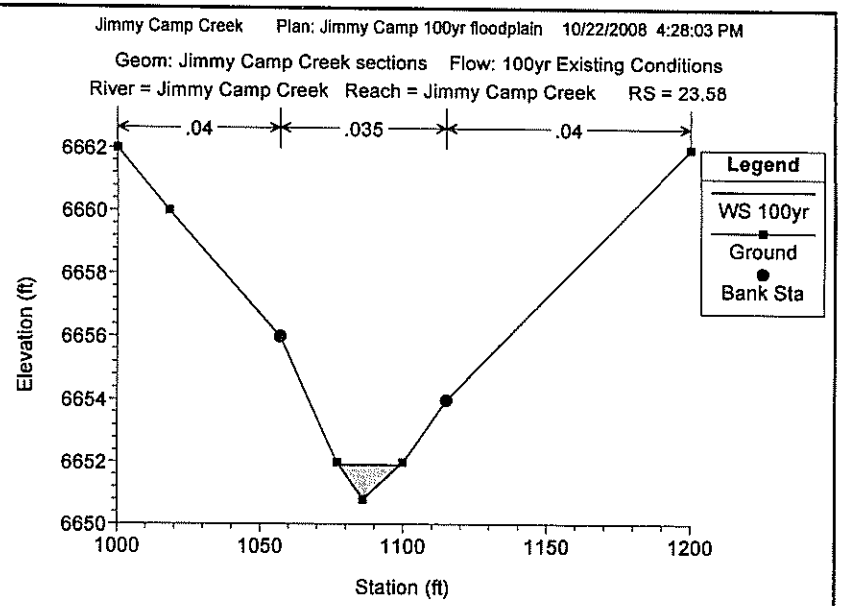
	Future 2 year with areal adjustment				AMC1 w/ 6-hr storm	
	Area (SM)	Q100	Volume (in)	acft	ac	cfs/ac
SM23	0.21	33.20	0.45	5.04	134.53	0.25
SM24	0.07	11.10	0.44	1.59	43.33	0.26
SM25	0.05	6.50	0.34	0.84	29.76	0.22
SM26	0.21	35.60	0.44	4.90	133.50	0.27
SM27	0.20	27.90	0.37	3.90	126.34	0.22
SM28	0.25	31.60	0.34	4.53	159.87	0.20
SM29	0.19	27.10	0.37	3.76	121.92	0.22
SM3	0.15	15.00	0.21	1.69	96.58	0.16
SM30	0.10	13.10	0.31	1.59	61.38	0.21
SM31	0.17	23.00	0.35	3.18	108.93	0.21
SM32	0.14	12.70	0.20	1.46	87.55	0.15
SM33	0.21	28.60	0.36	3.96	132.16	0.22
SM34	0.25	32.80	0.37	4.85	157.38	0.21
SM4	0.25	7.20	0.09	1.21	160.83	0.04
SM5	0.09	0.90	0.03	0.15	59.52	0.02
SM6	0.14	1.20	0.02	0.15	91.39	0.01
SM7	0.14	4.40	0.06	0.46	92.16	0.05
SM8	0.26	38.70	0.40	5.55	166.53	0.23
SM9	0.24	43.70	0.55	6.91	150.72	0.29
WF	4.14	1086.00	0.56	123.65	2649.60	0.41

APPENDIX B

HEC-RAS RESULTS

Cross-sections
Summary Tables 100-year Existing Conditions
Manning's Roughness Photographs


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 23.67
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6672
6670
6668
6666
6664
1000
1050
1100
1150
1200
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
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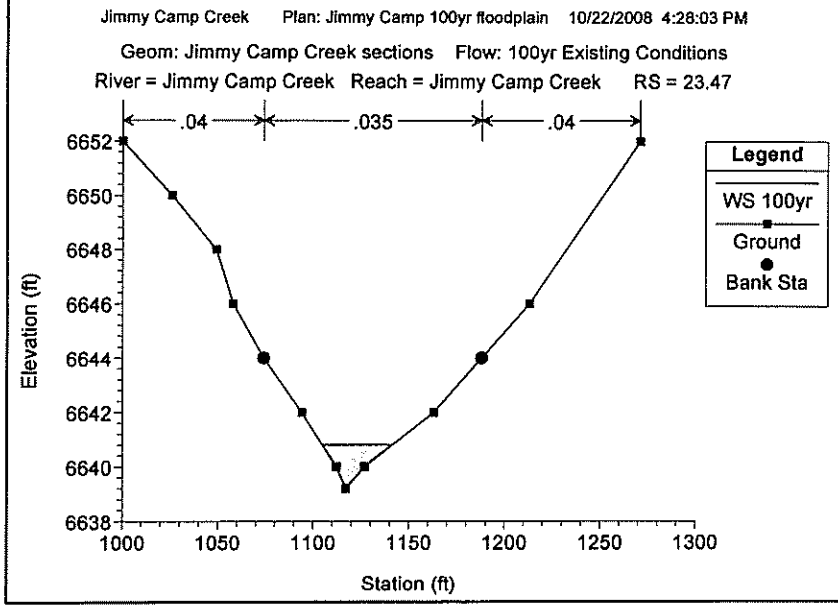
6660
6658
6656
6654
6652
6650
1000
1050
1100
1150
1200
Station (ft)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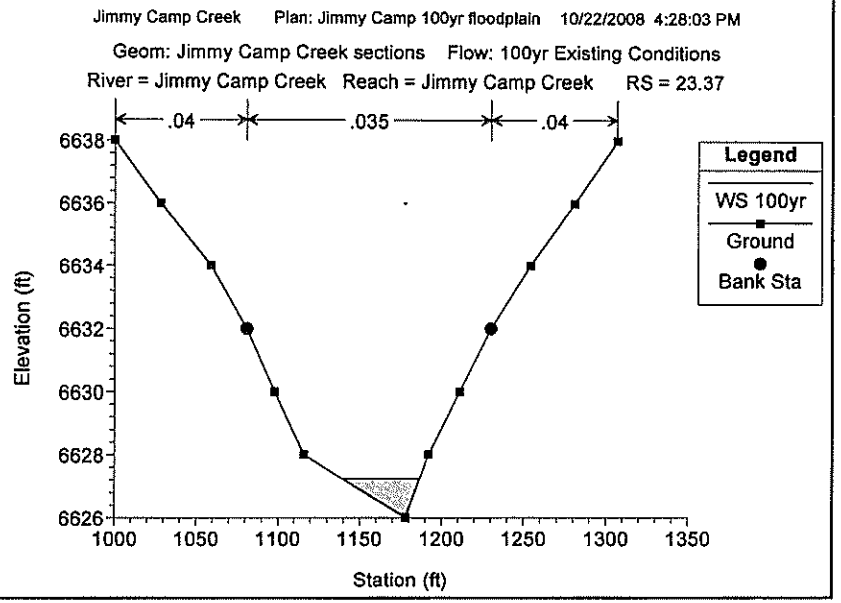
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6652
6650
6648
6646
6644
6642
6640
6638
1000
1050
1100
1150
1200
1250
1300
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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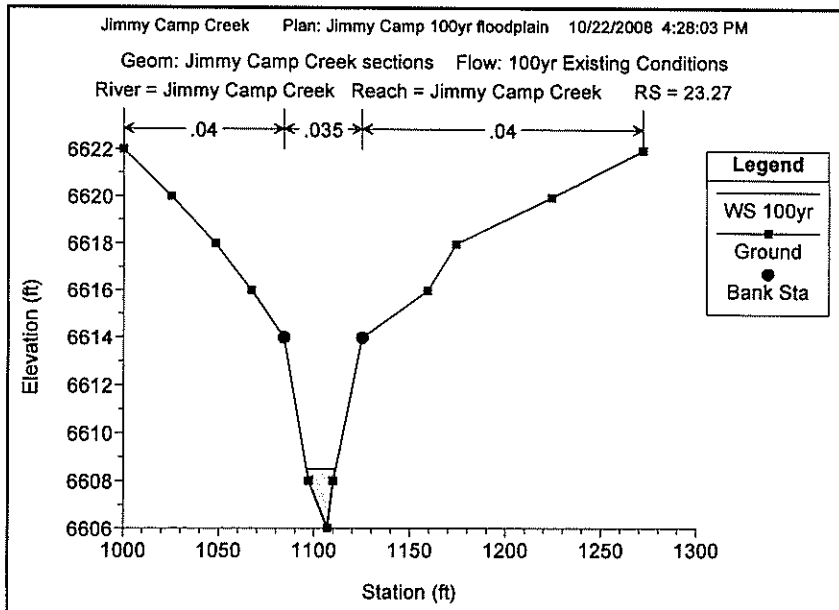
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6638
6636
6634
6632
6630
6628
6626
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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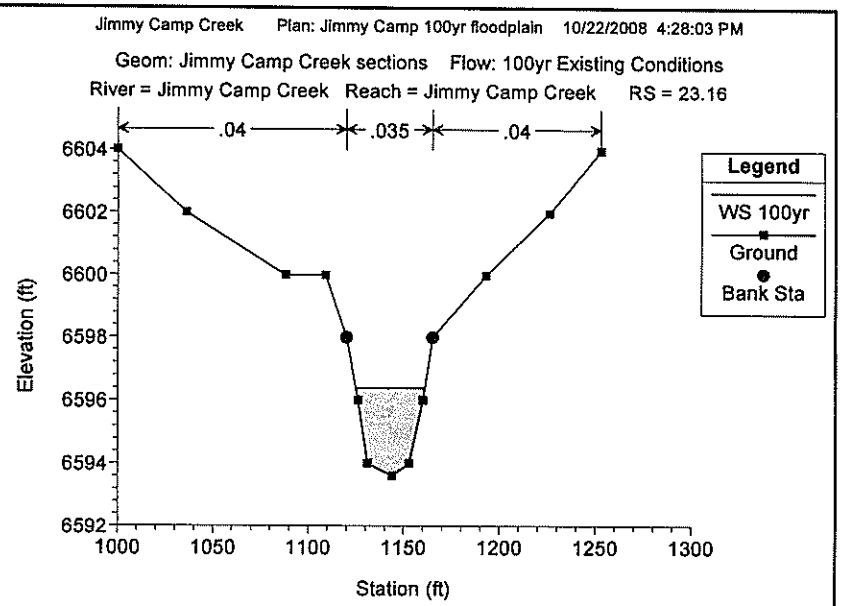
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6622
6620
6618
6616
6614
6612
6610
6608
6606
1000
1050
1100
1150
1200
1250
1300
Station (ft)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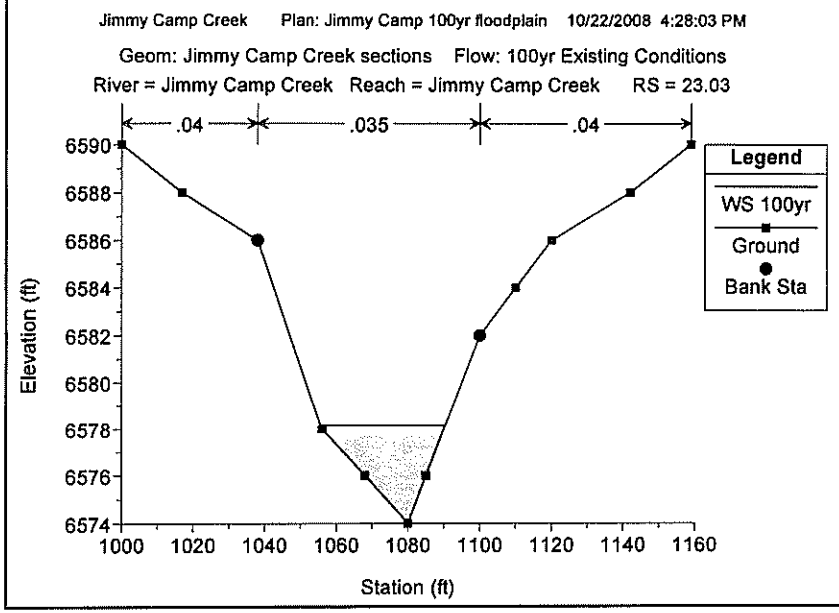
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6604
6602
6600
6598
6596
6594
6592
1000
1050
1100
1150
1200
1250
1300
Station (ft)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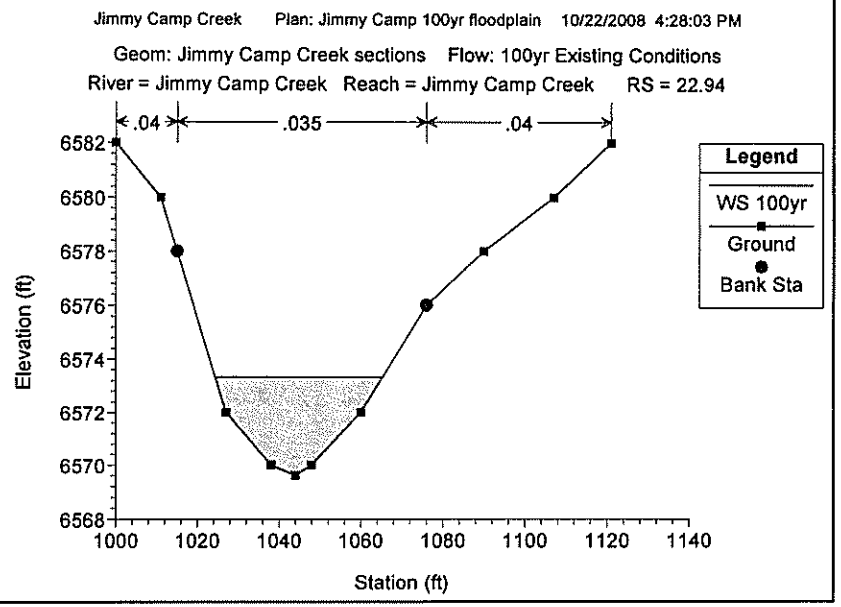
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6590
6588
6586
6584
6582
6580
6578
6576
6574
1000
1020
1040
1060
1080
1100
1120
1140
1160
Station (ft)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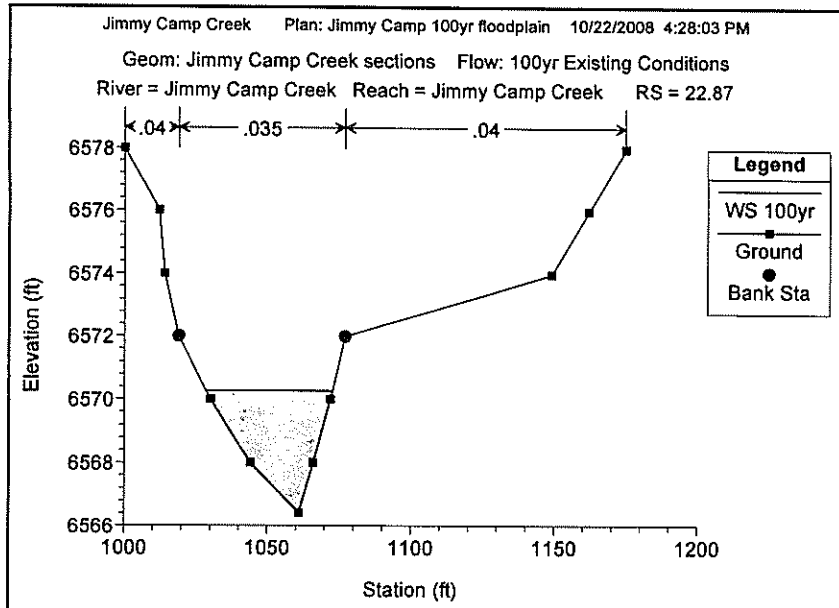
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6582
6580
6578
6576
6574
6572
6570
6568
1000
1020
1040
1060
1080
1100
1120
1140
Station (ft)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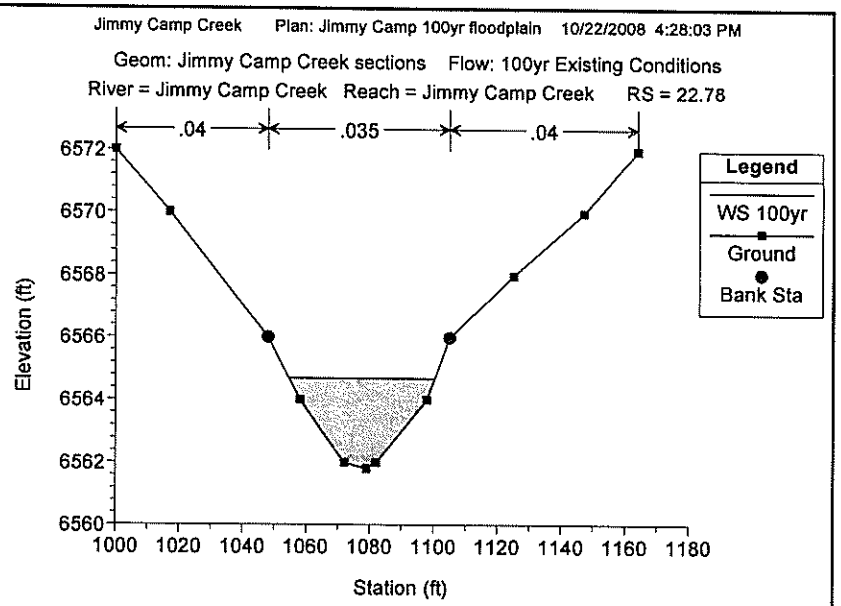
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6578
6576
6574
6572
6570
6568
6566
1000
1050
1100
1150
1200
Station (ft)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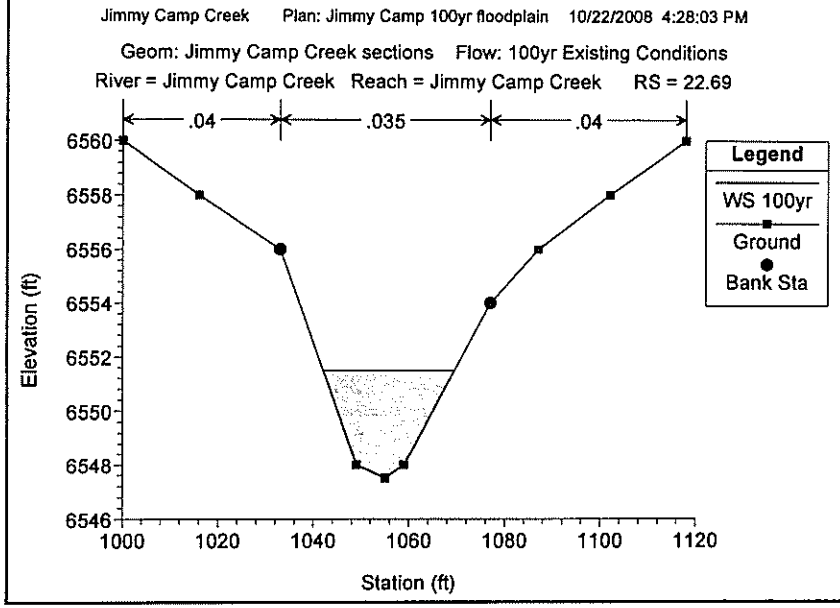
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6572
6570
6568
6566
6564
6562
6560
1000
1020
1040
1060
1080
1100
1120
1140
1160
1180
Station (ft)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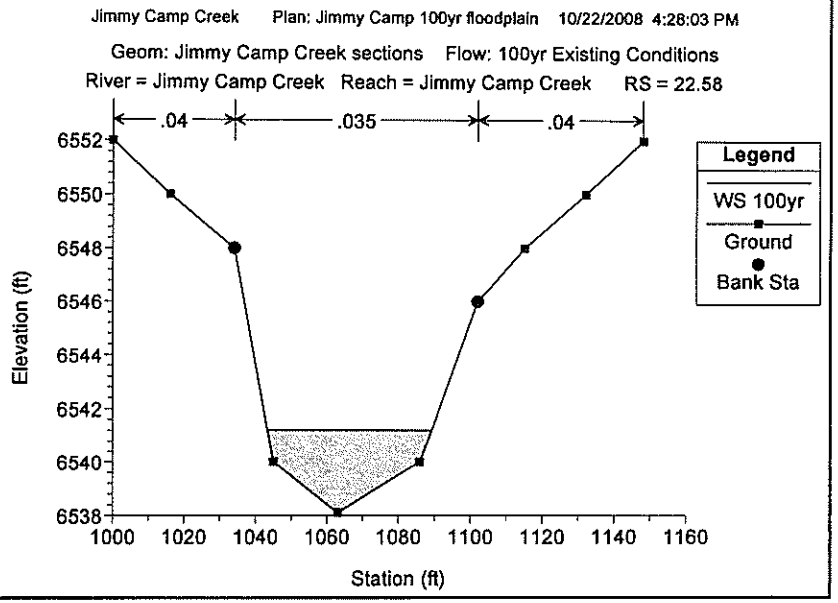
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6560
6558
6556
6554
6552
6550
6548
6546
1000
1020
1040
1060
1080
1100
1120
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6552
6550
6548
6546
6544
6542
6540
6538
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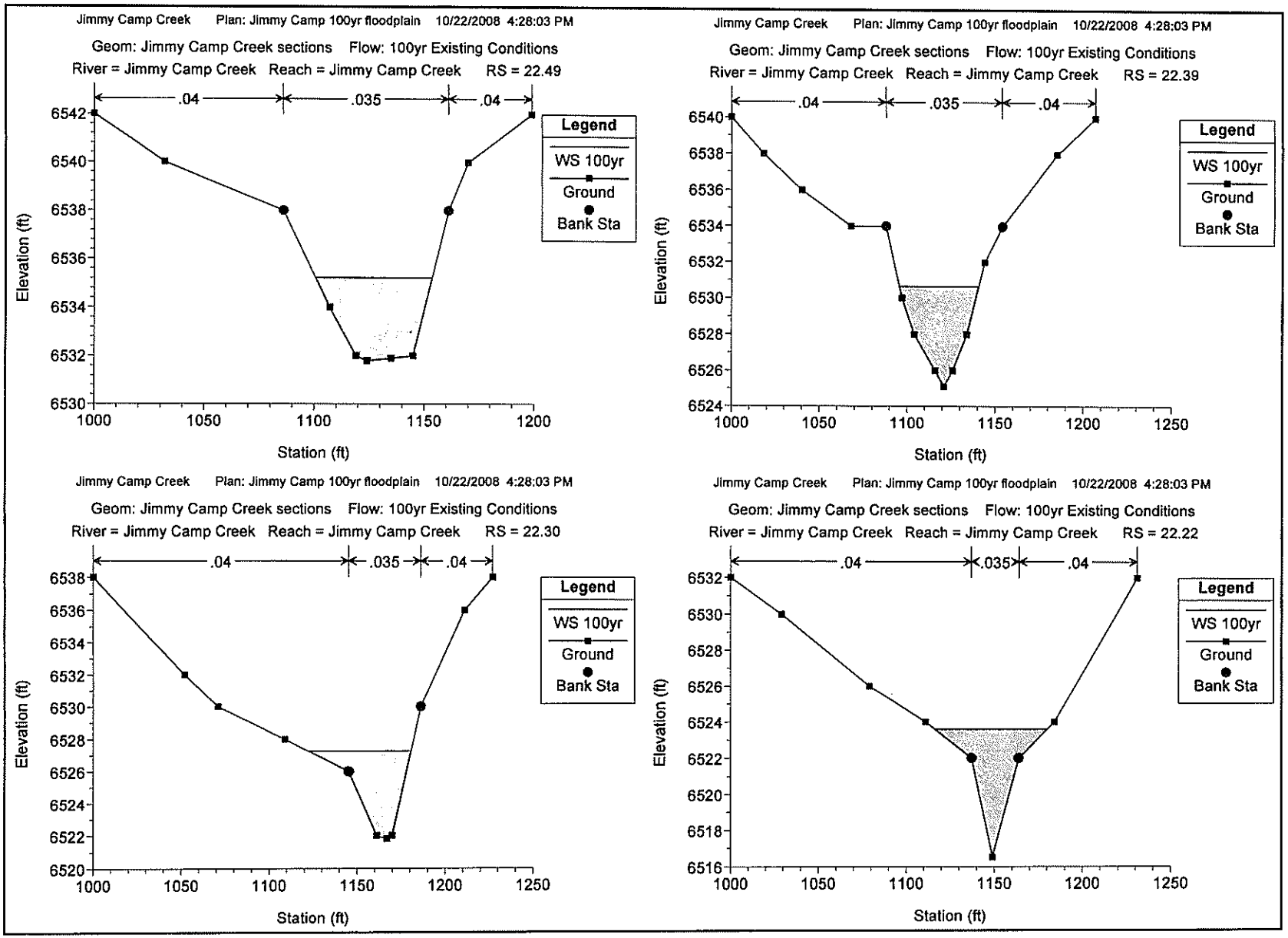
1020
1040
1060
1080
1100
1120
1140
1160
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 22.39
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 22.30
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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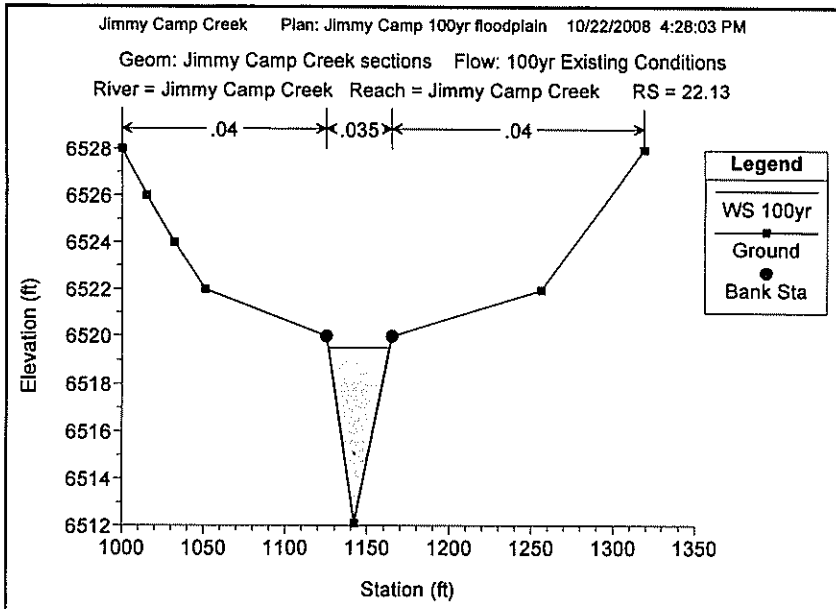
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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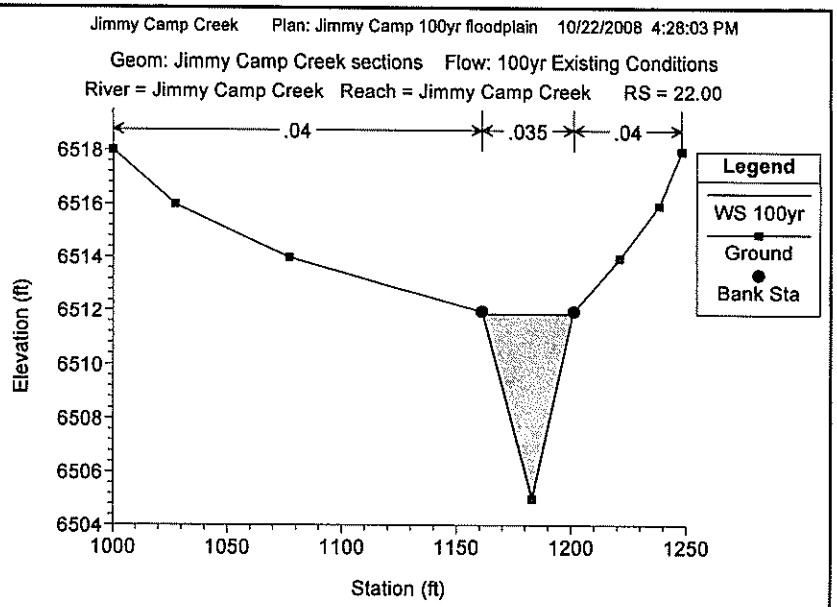
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6528
6526
6524
6522
6520
6518
6516
6514
6512
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
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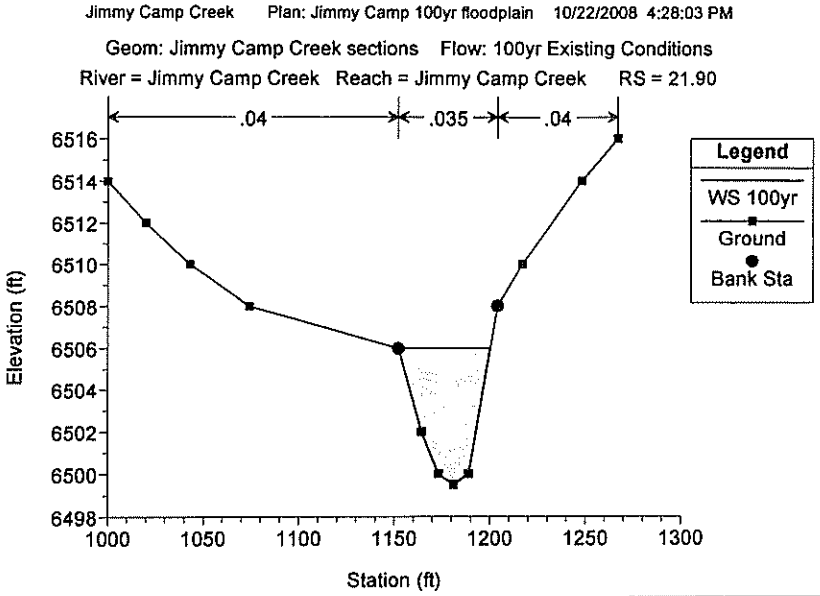
6516
6514
6512
6510
6508
6506
6504
1000
1050
1100
1150
1200
1250
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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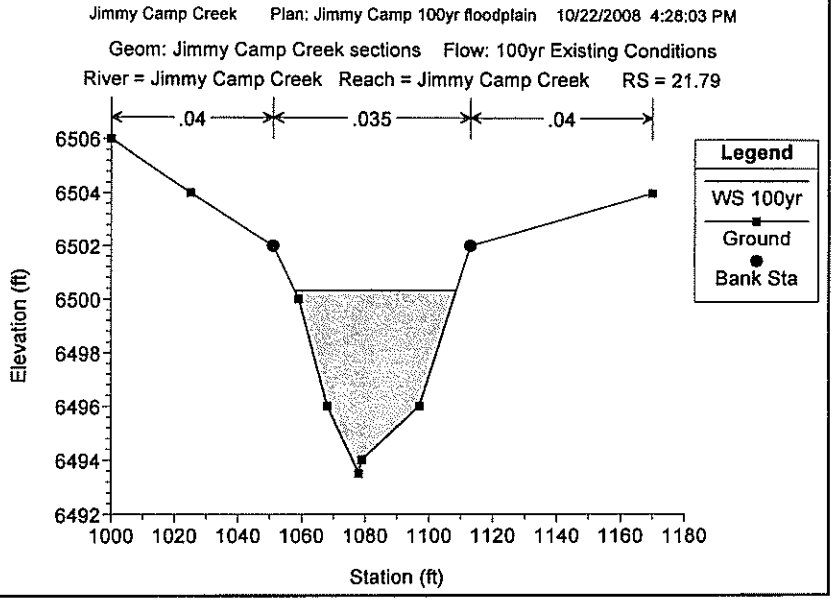
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6516
6514
6512
6510
6508
6506
6504
6502
6500
6498
1000
1050
1100
1150
1200
1250
1300
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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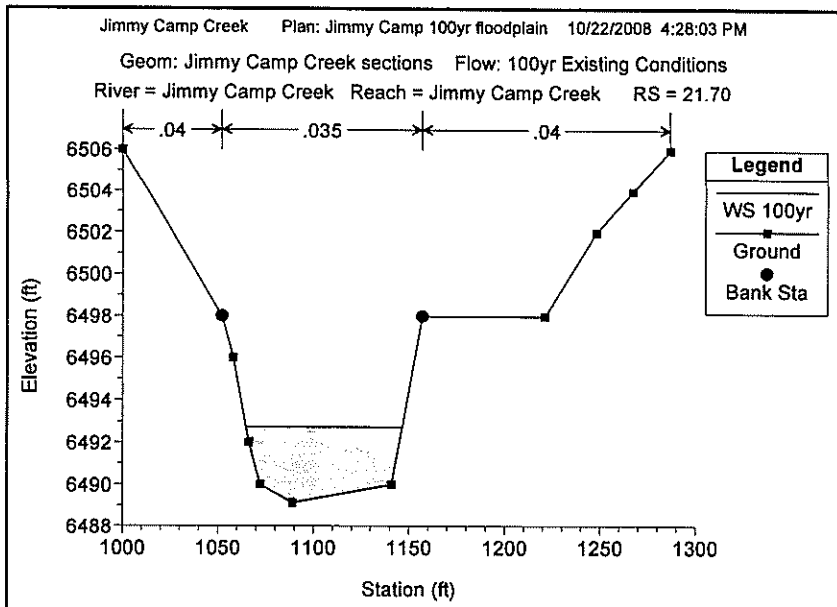
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6506
6504
6502
6500
6498
6496
6494
6492
1000
1020
1040
1060
1080
1100
1120
1140
1160
1180
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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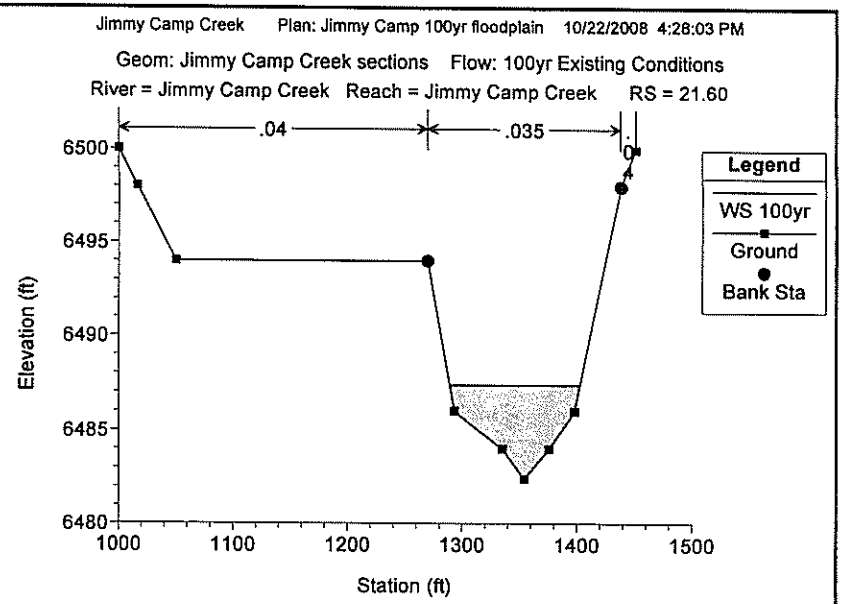
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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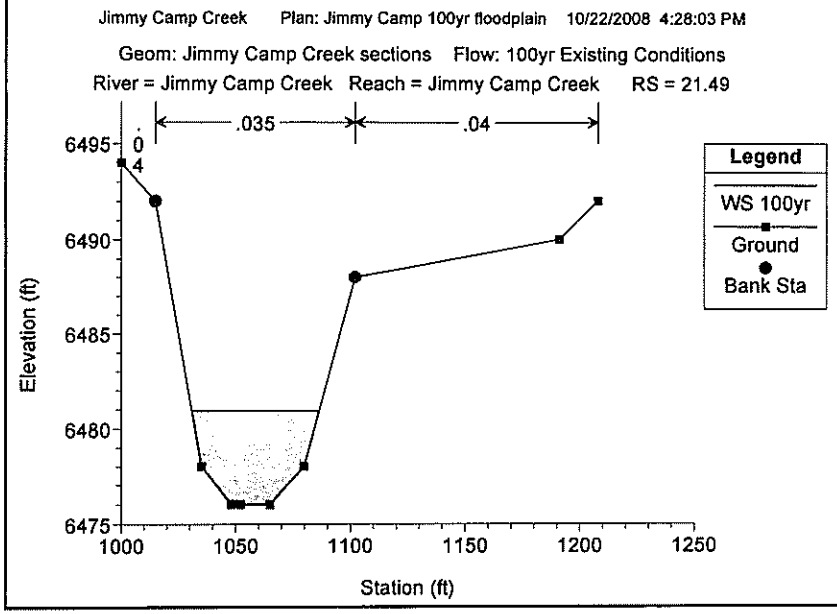
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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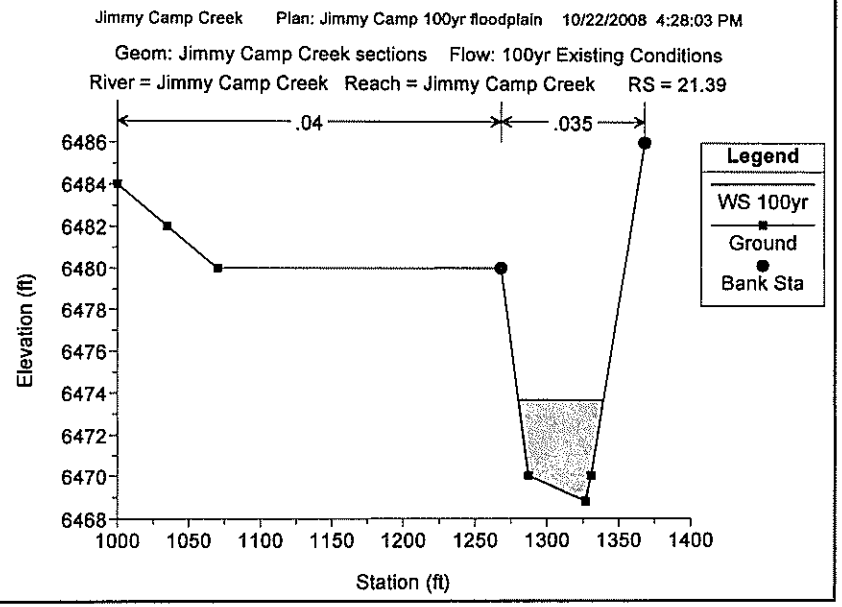
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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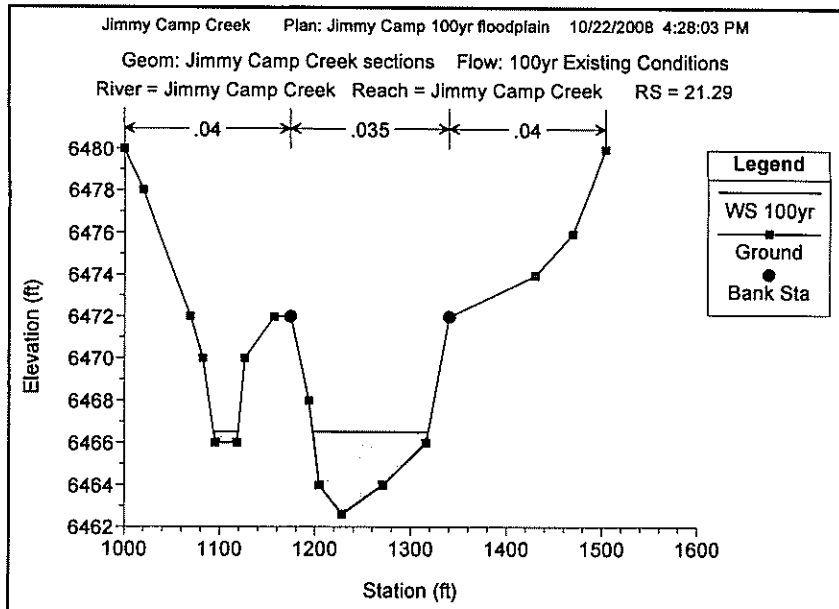
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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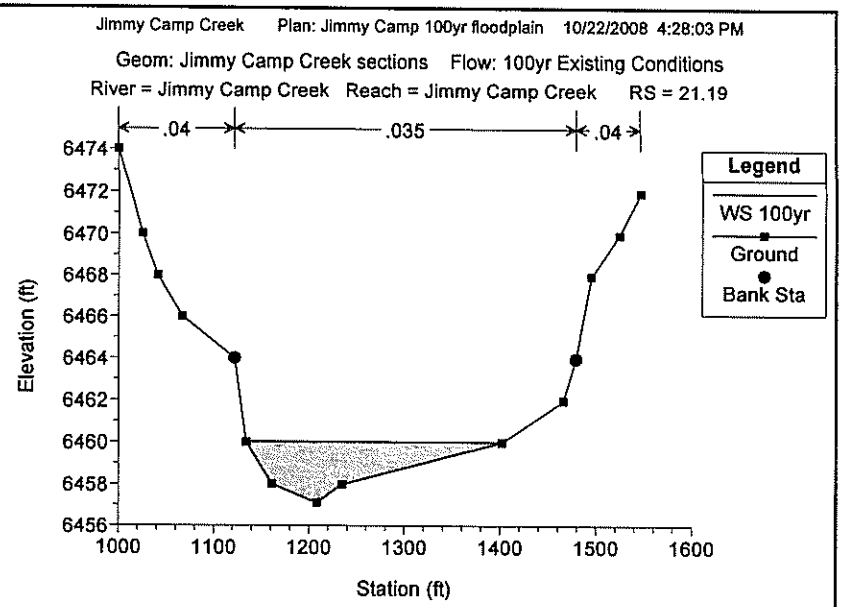
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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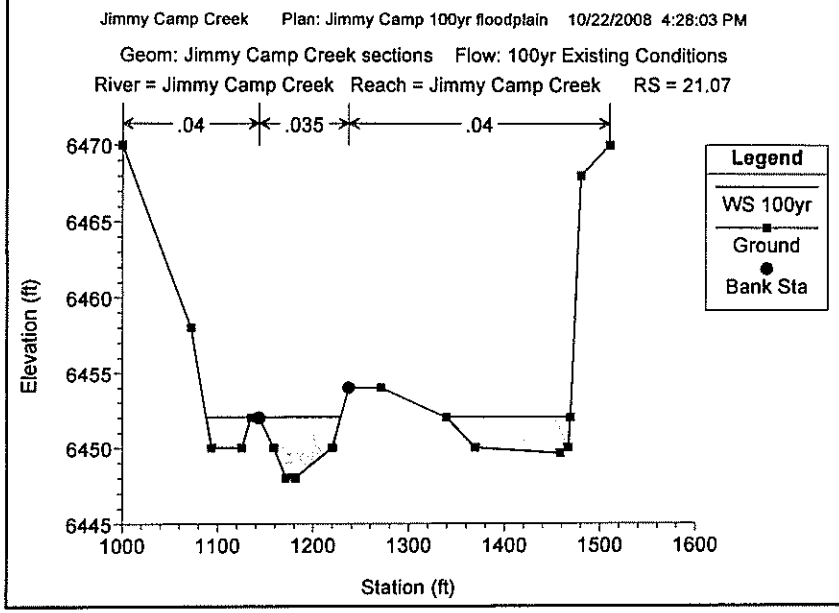
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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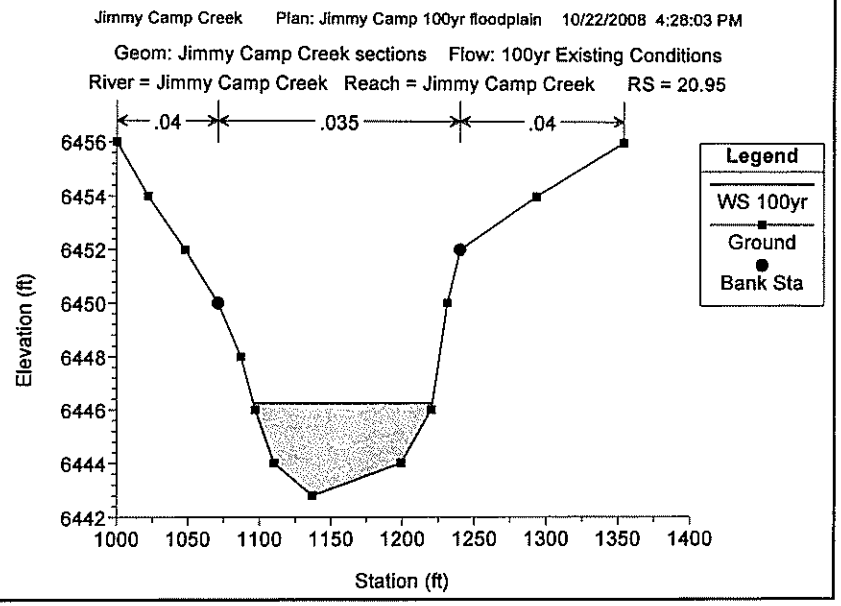
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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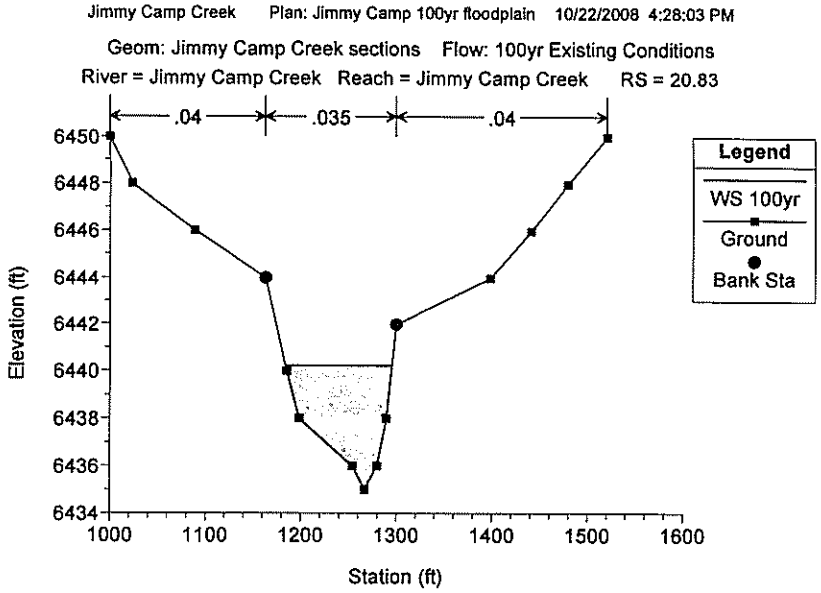
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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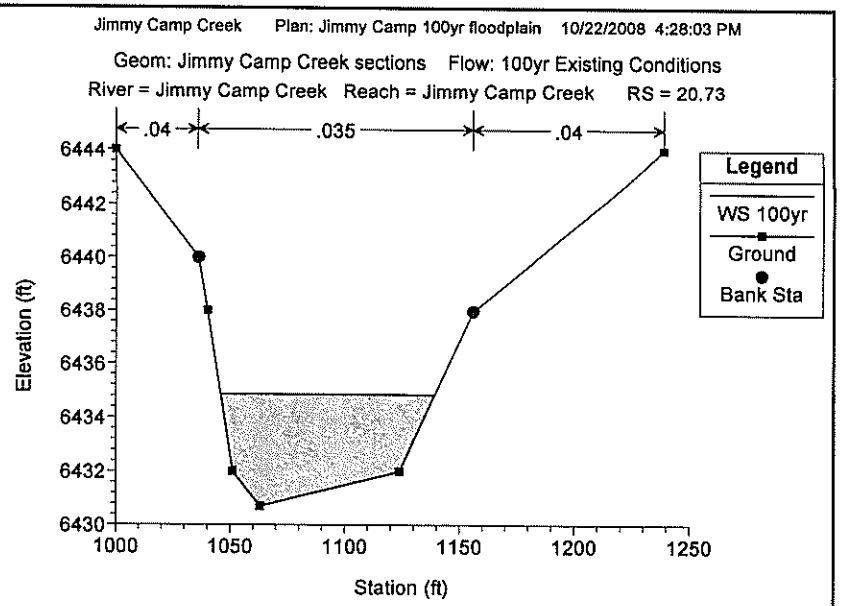
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 20.73
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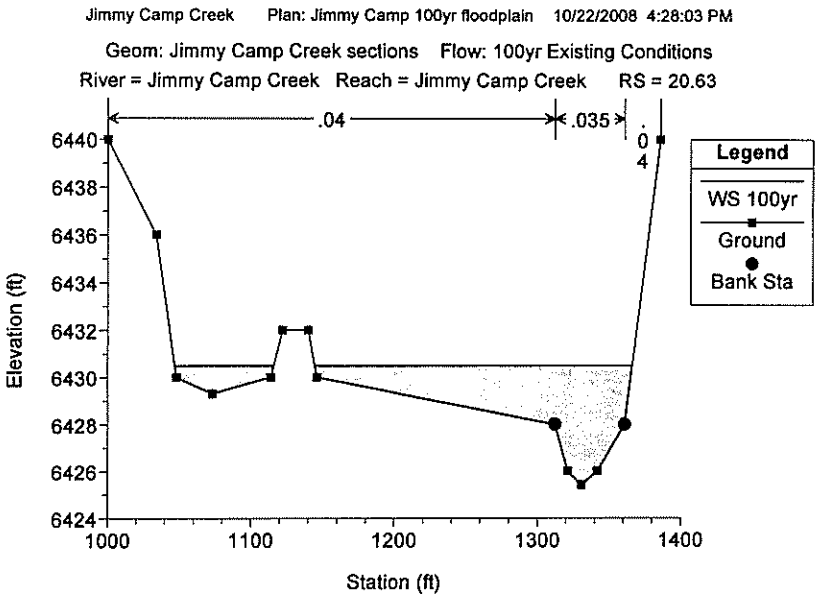
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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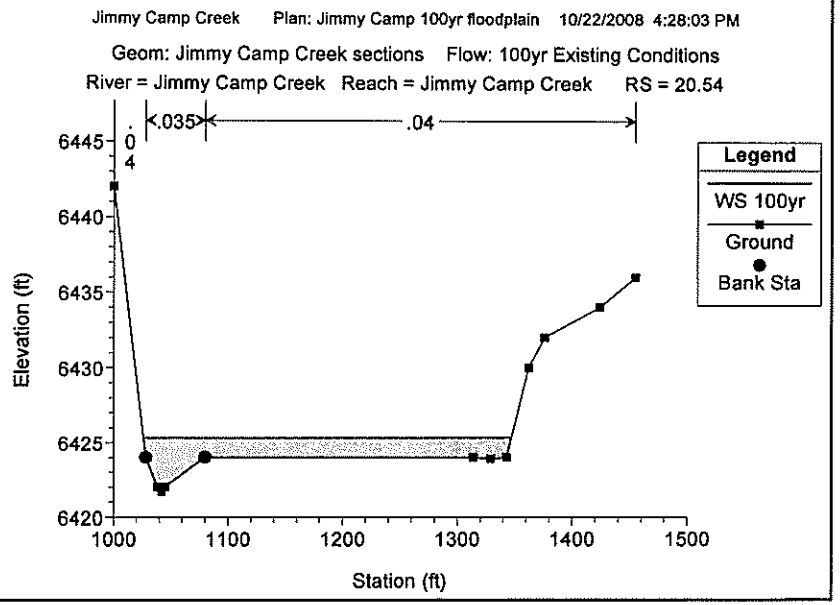
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 20.63
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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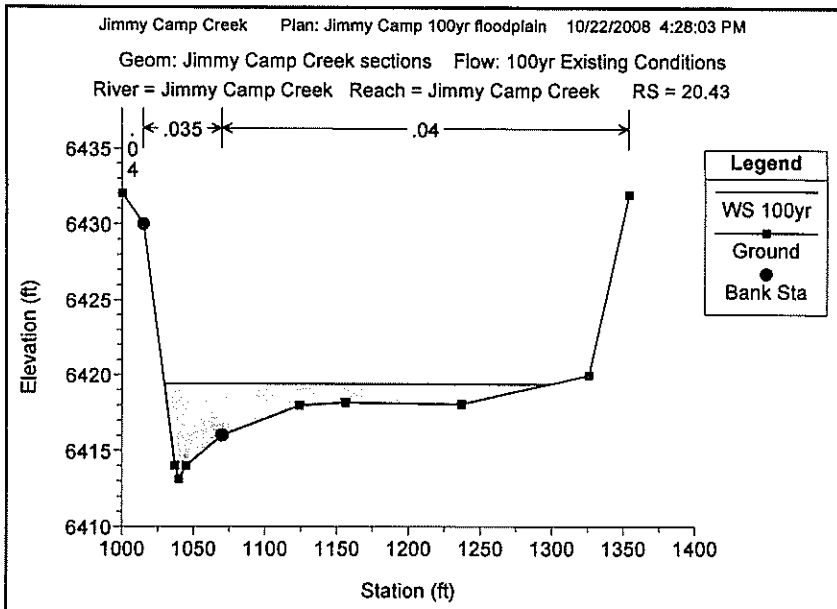
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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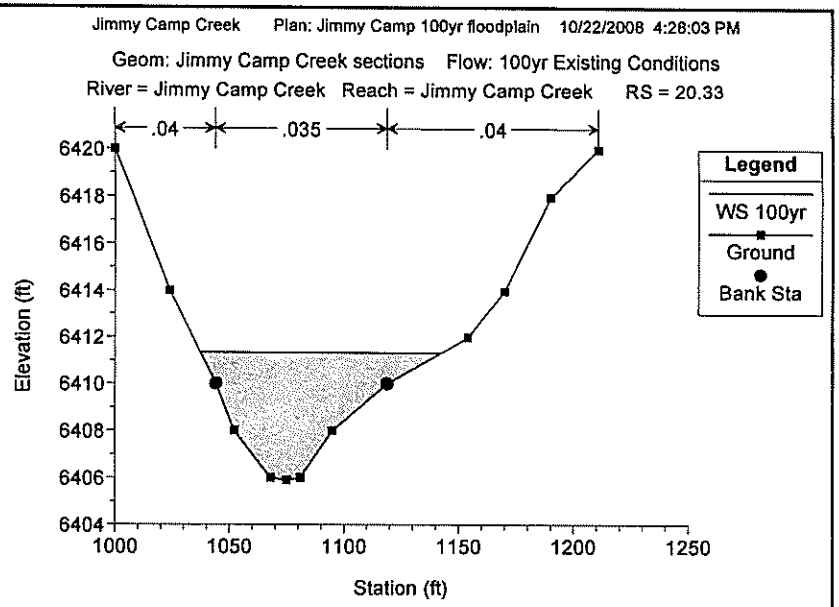
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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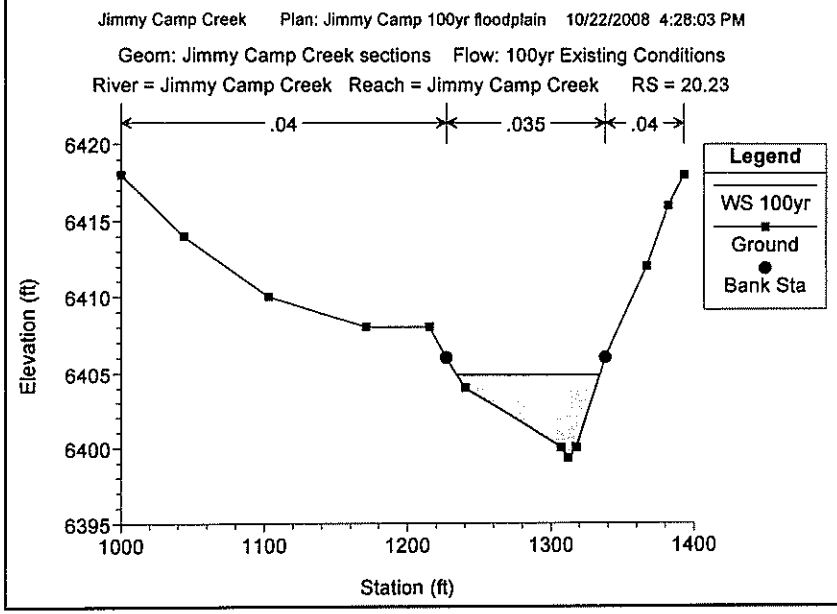
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 20.33
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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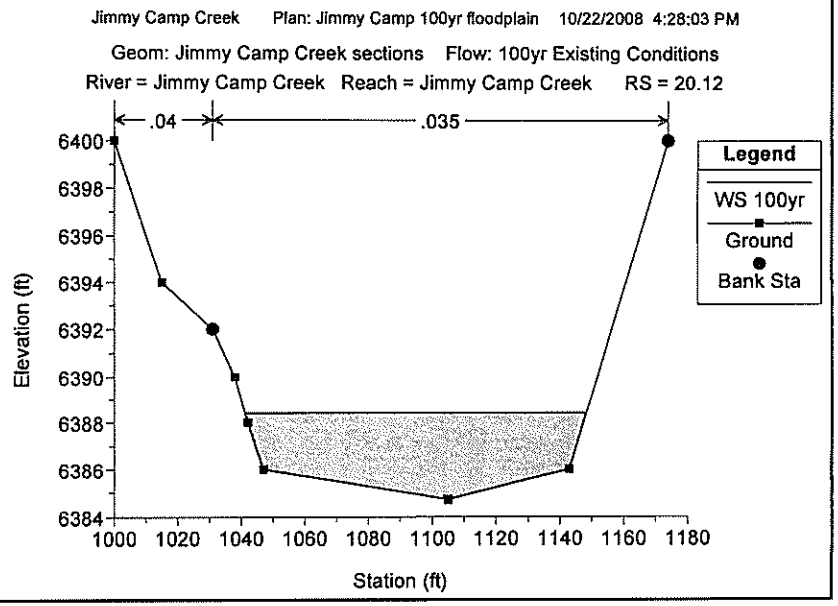
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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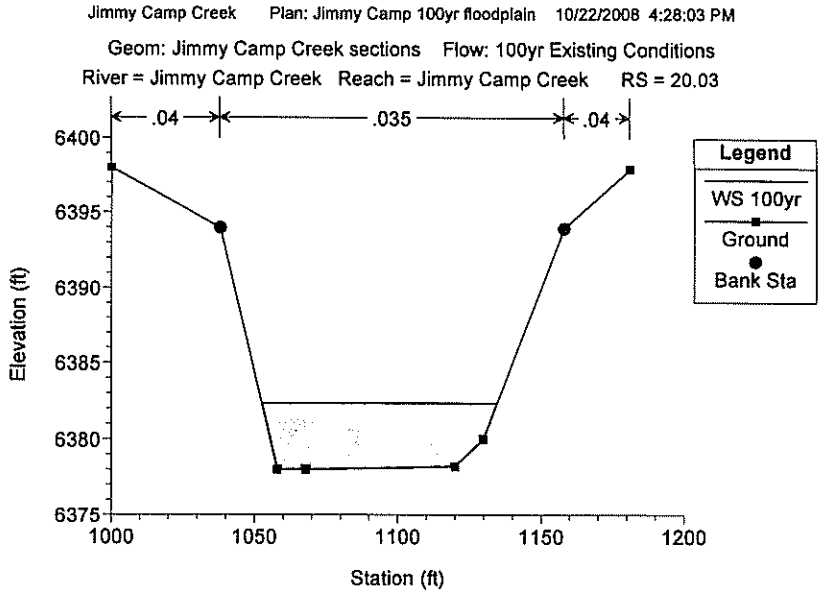
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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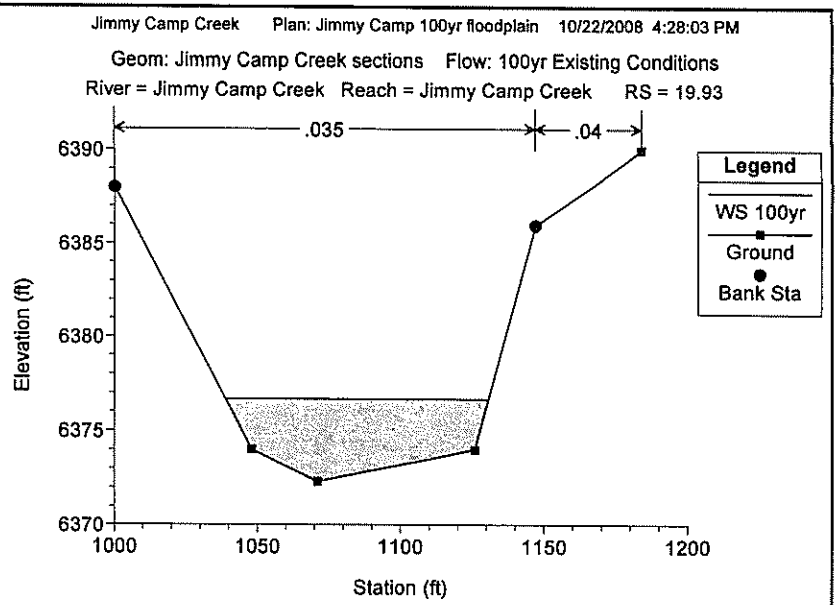
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6400
6395
6390
6385
6380
6375
1000
1050
1100
1150
1200
Station (ft)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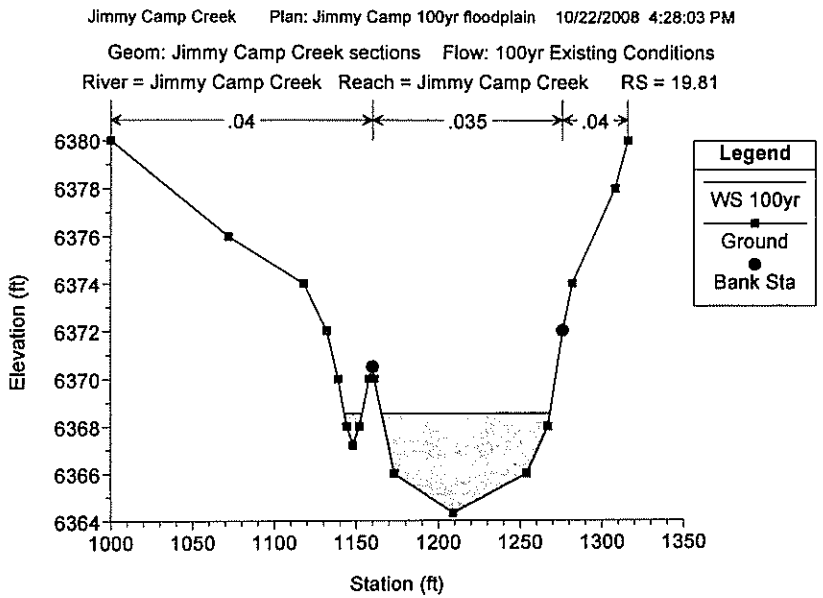
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.93
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6390
6385
6380
6375
6370
1000
1050
1100
1150
1200
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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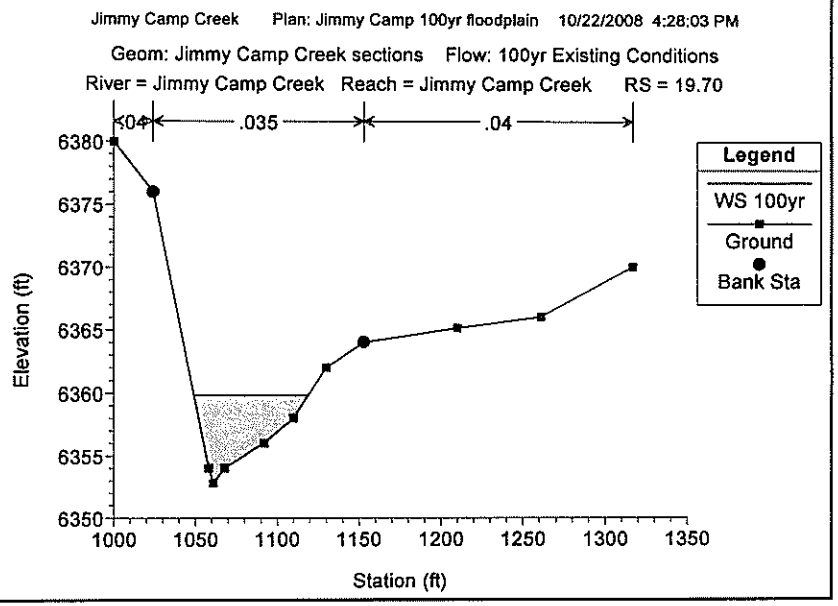
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6380
6378
6376
6374
6372
6370
6368
6366
6364
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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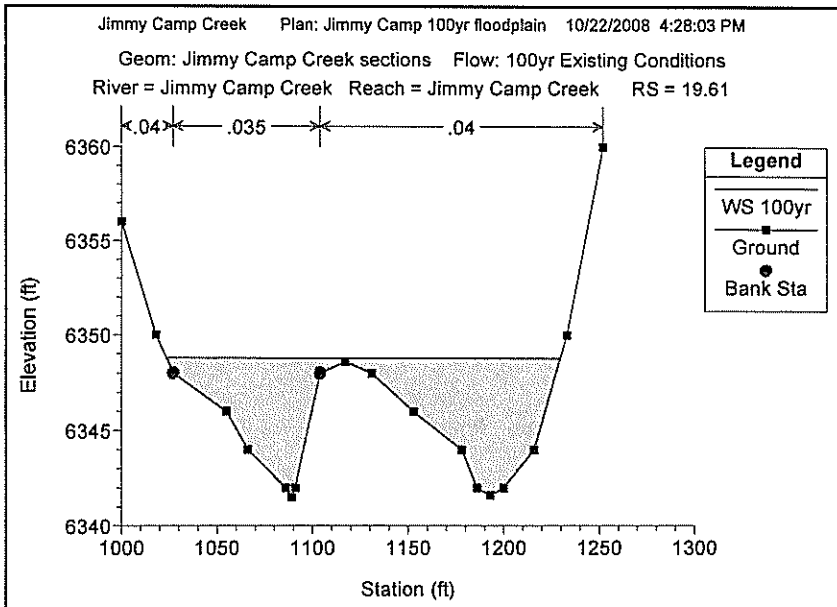
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6380
6375
6370
6365
6360
6355
6350
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.61
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
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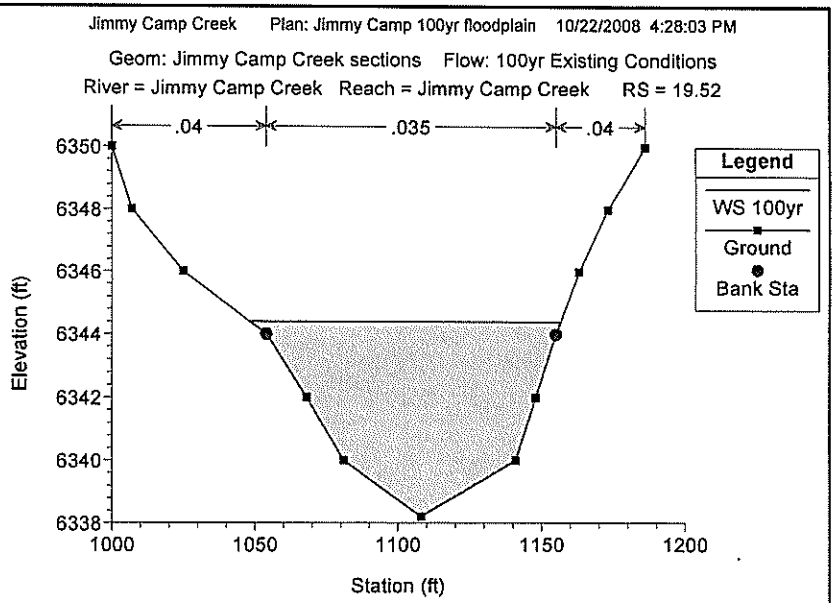
6355
6350
6345
6340
1000
1050
1100
1150
1200
1250
1300
Station (ft)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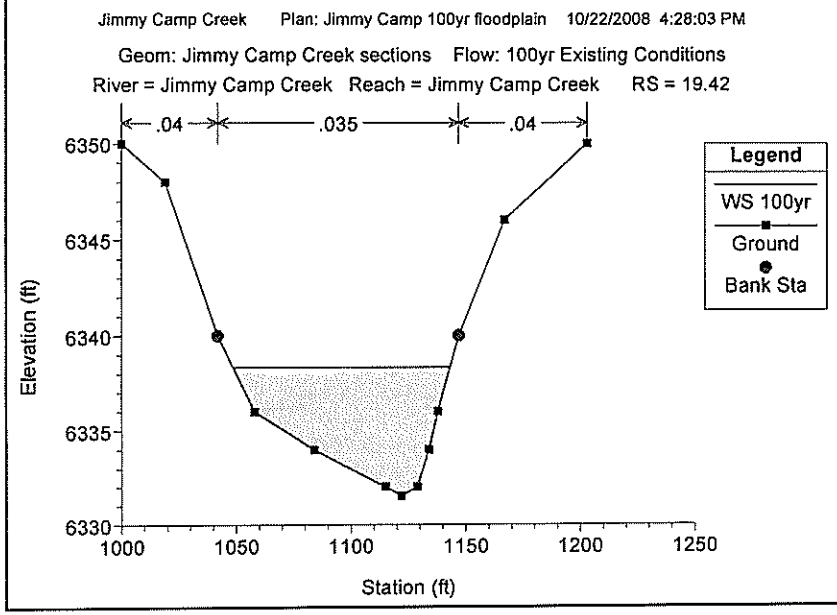
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.52
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6350
6348
6346
6344
6342
6340
6338
1000
1050
1100
1150
1200
Station (ft)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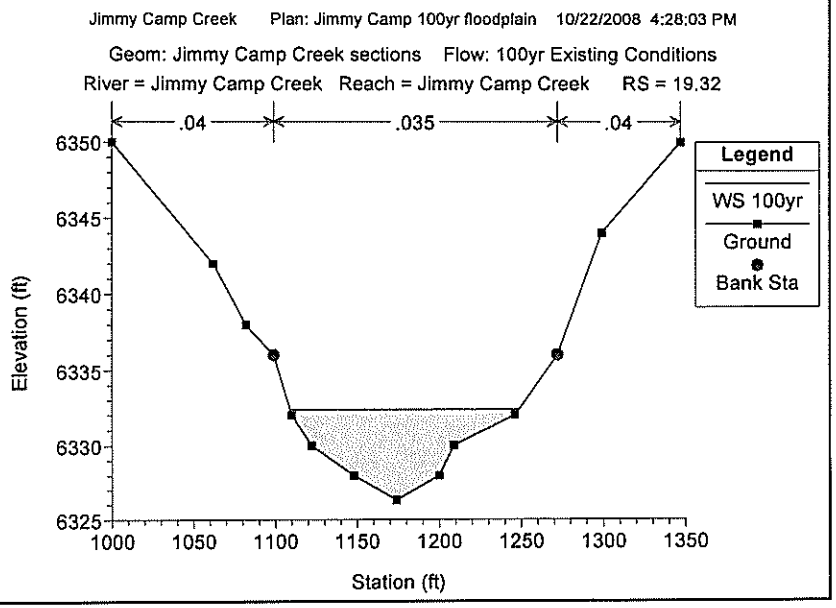
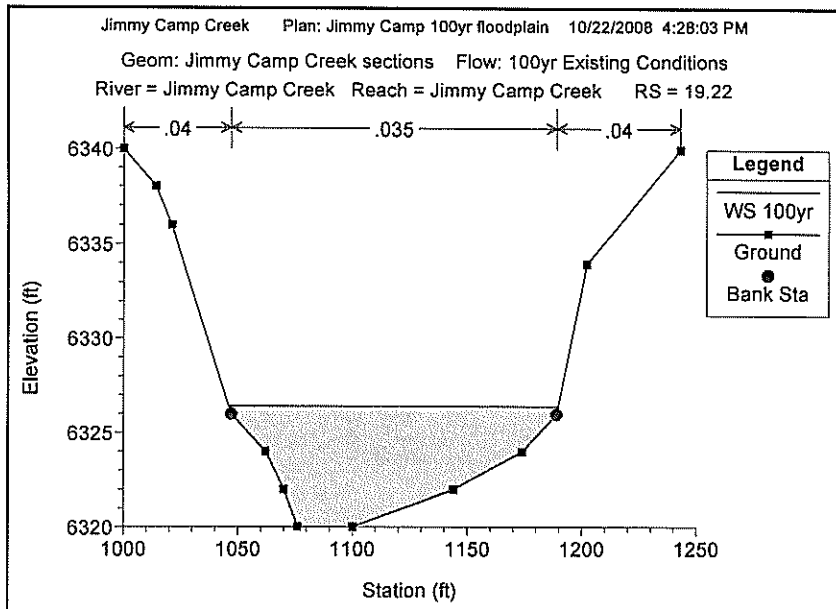
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.42
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6350
6345
6340
6335
6330
1000
1050
1100
1150
1200
1250
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.32
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6350
6345
6340
6335
6330
6325
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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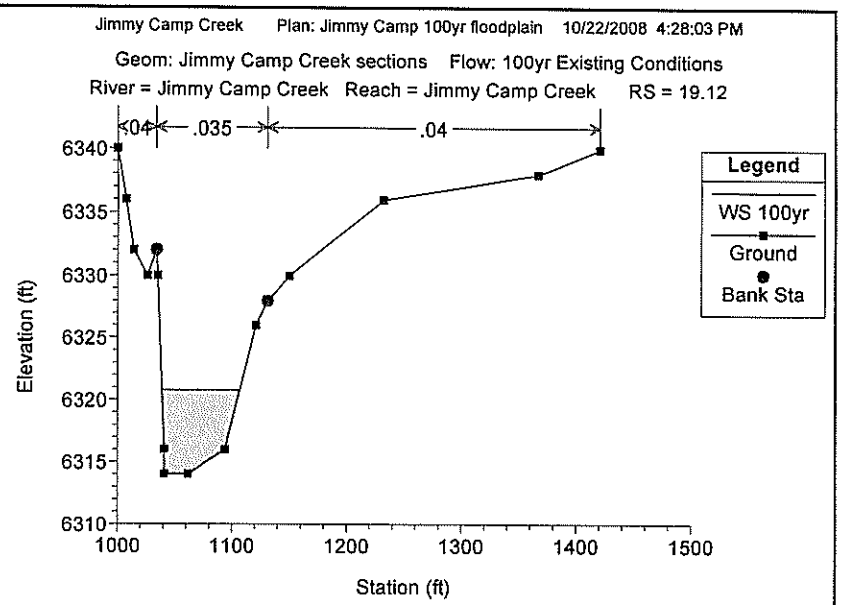
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.22
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6340
6335
6330
6325
6320
1000
1050
1100
1150
1200
1250
Station (ft)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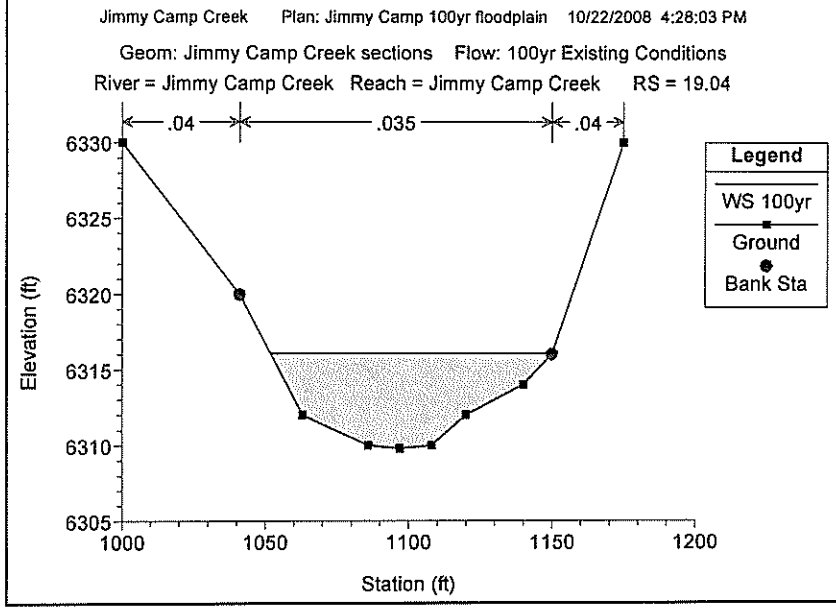
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.12
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6340
6335
6330
6325
6320
6315
6310
1000
1100
1200
1300
1400
1500
Station (ft)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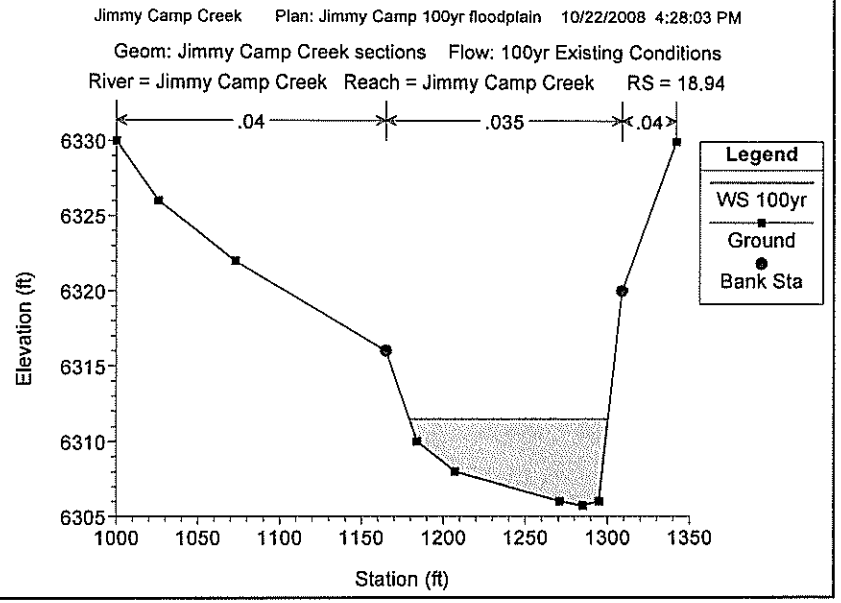
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 19.04
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6330
6325
6320
6315
6310
6305
1000
1050
1100
1150
1200
Station (ft)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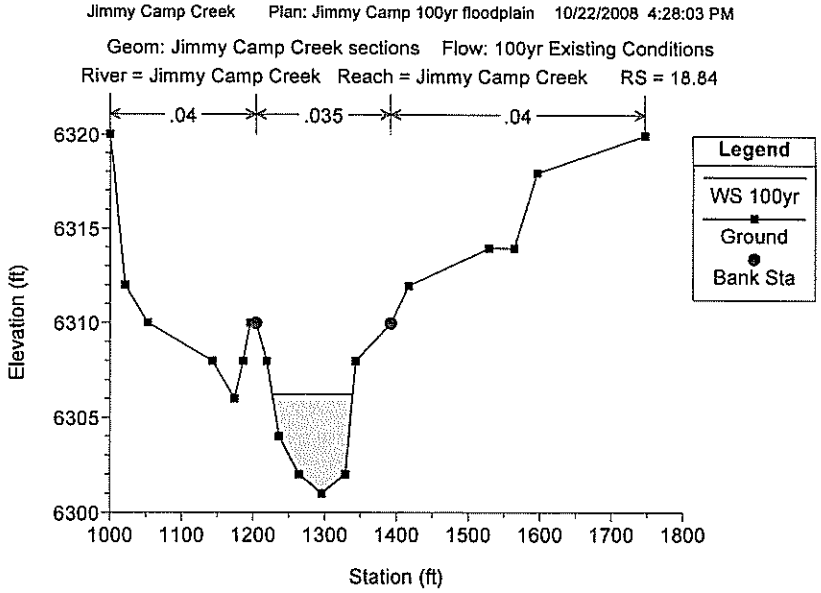
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 18.94
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6330
6325
6320
6315
6310
6305
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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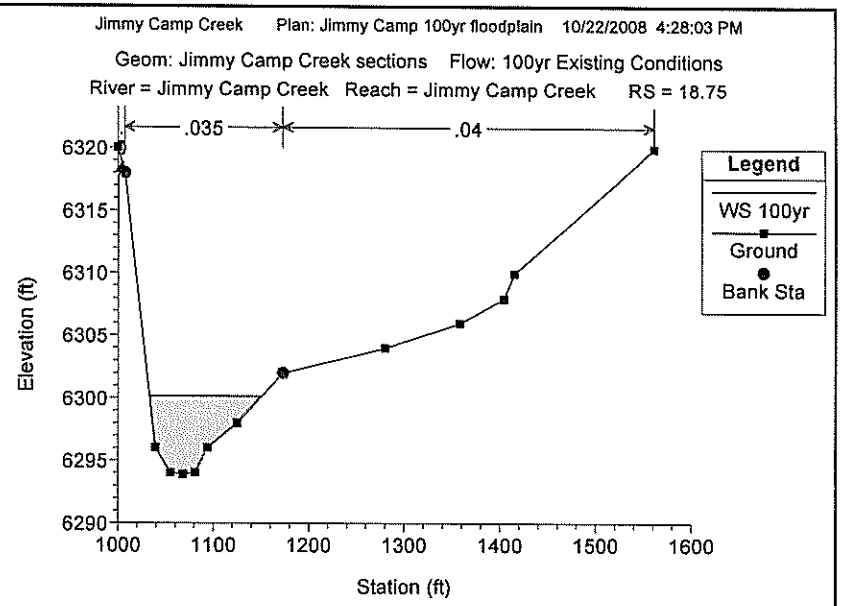
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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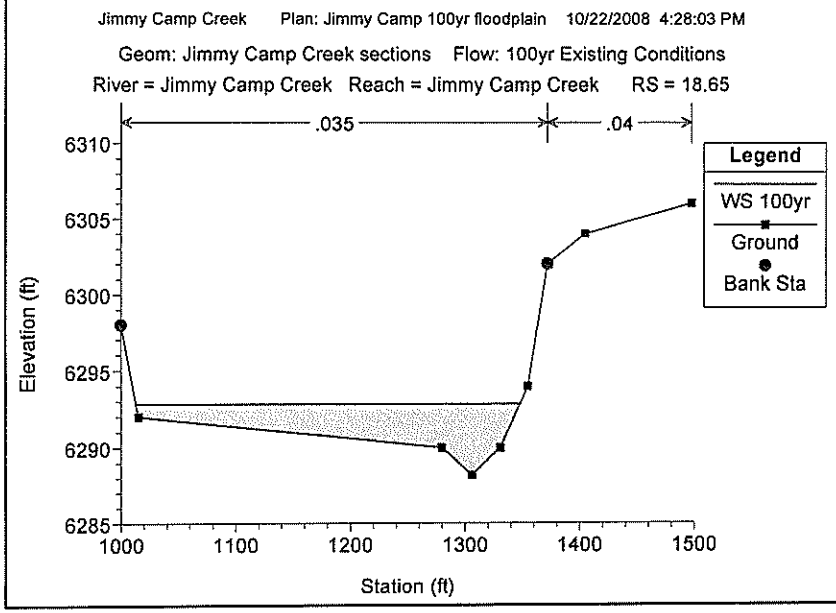
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 18.65
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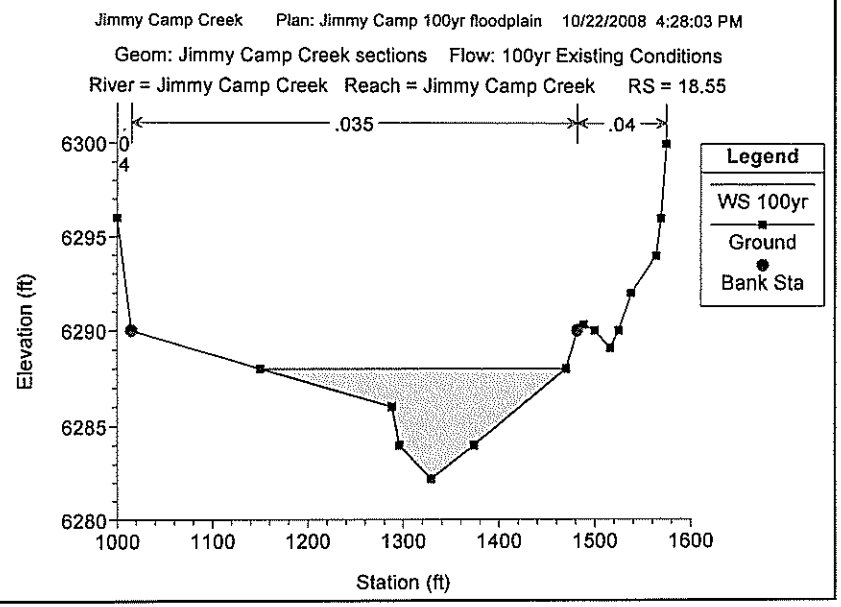
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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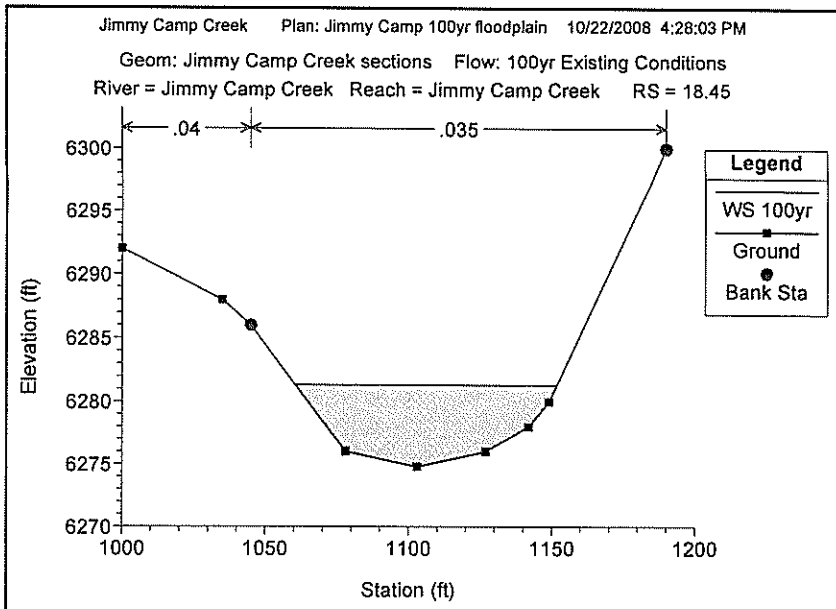
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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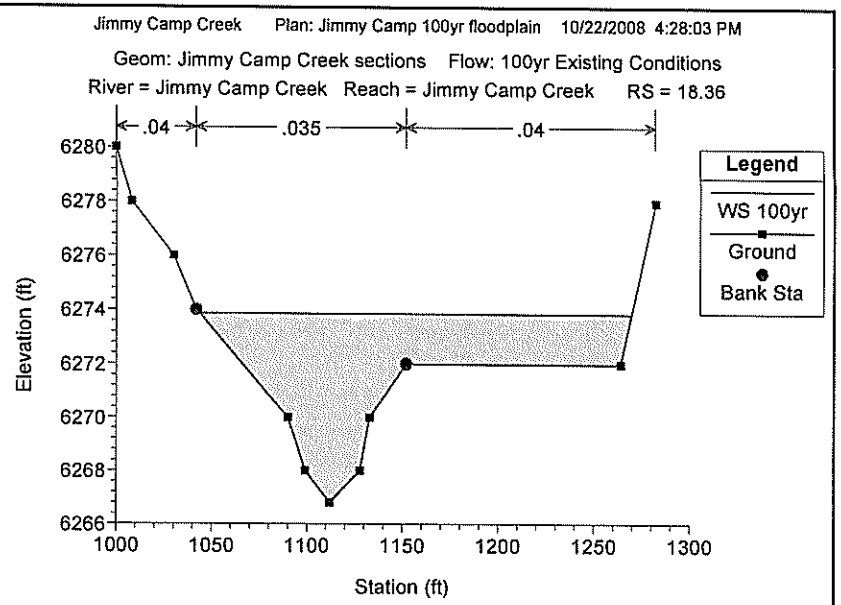
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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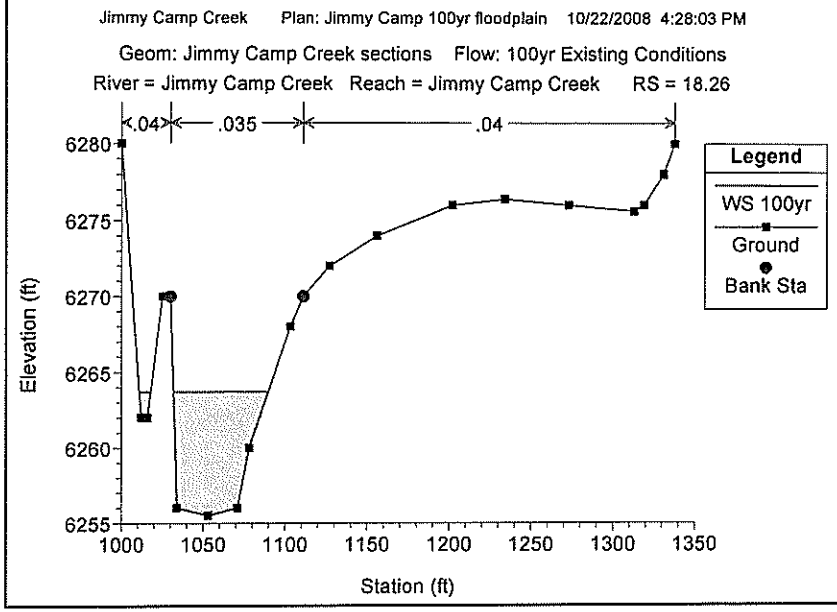
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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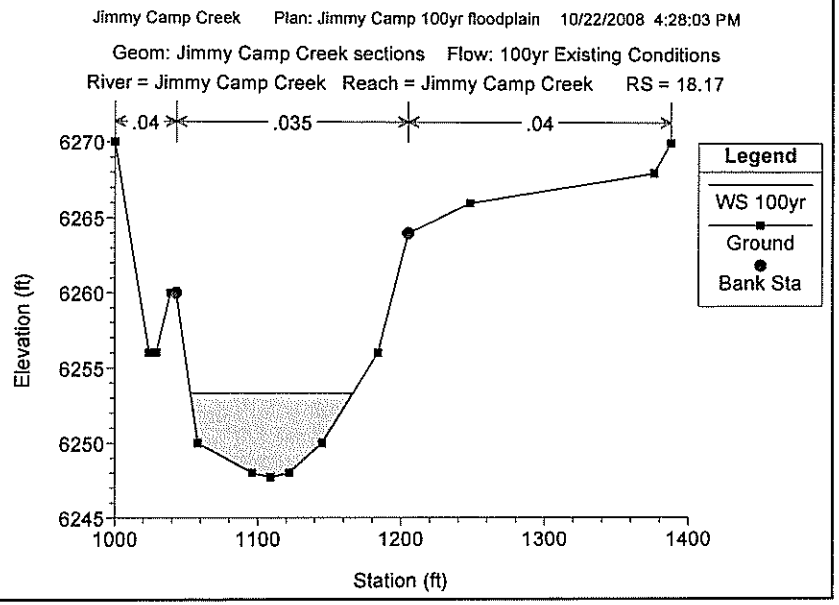
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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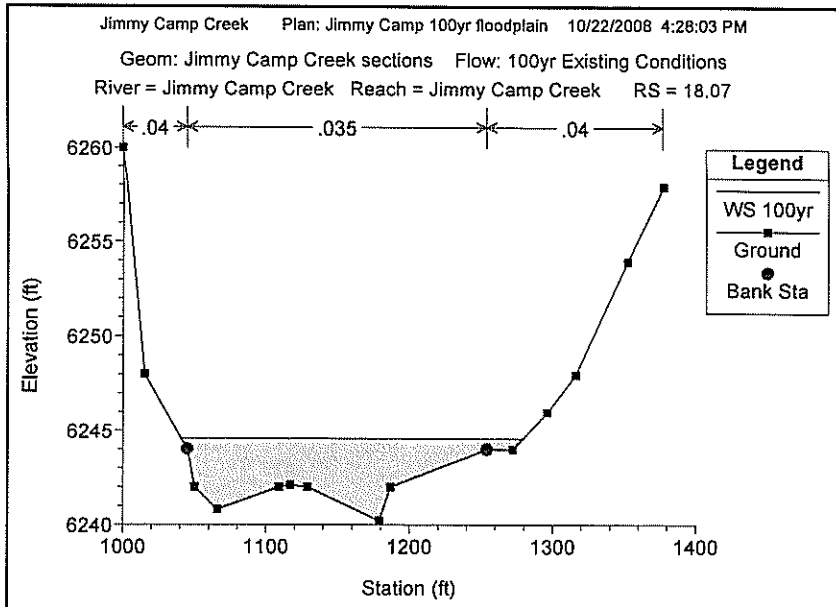
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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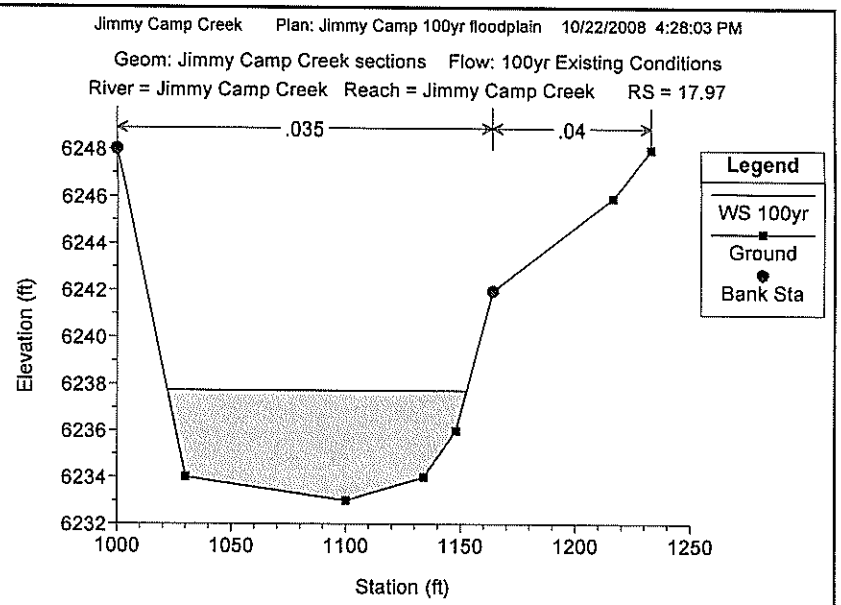
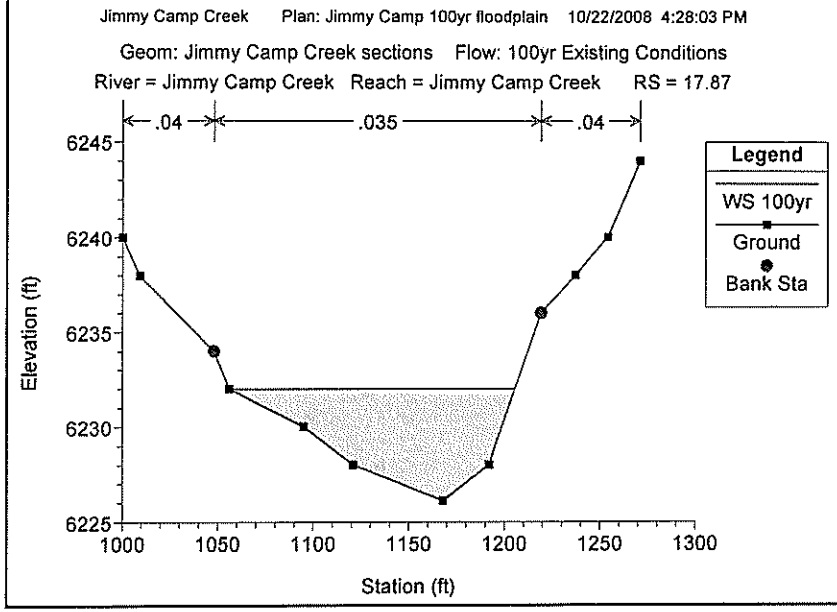
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6260
6255
6250
6245
6240
1000
1100
1200
1300
1400
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 17.97
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6248
6246
6244
6242
6240
6238
6236
6234
6232
1000
1050
1100
1150
1200
1250
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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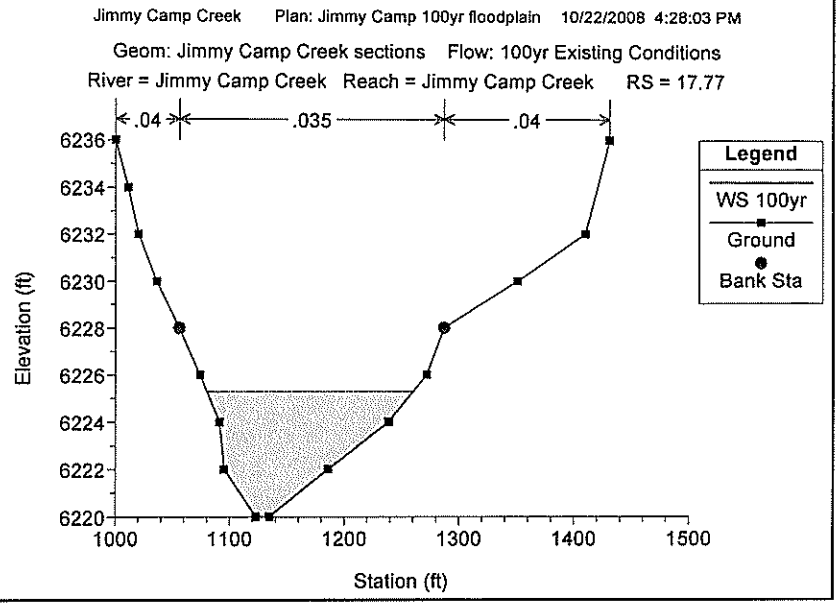
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6245
6240
6235
6230
6225
1000
1050
1100
1150
1200
1250
1300
Station (ft)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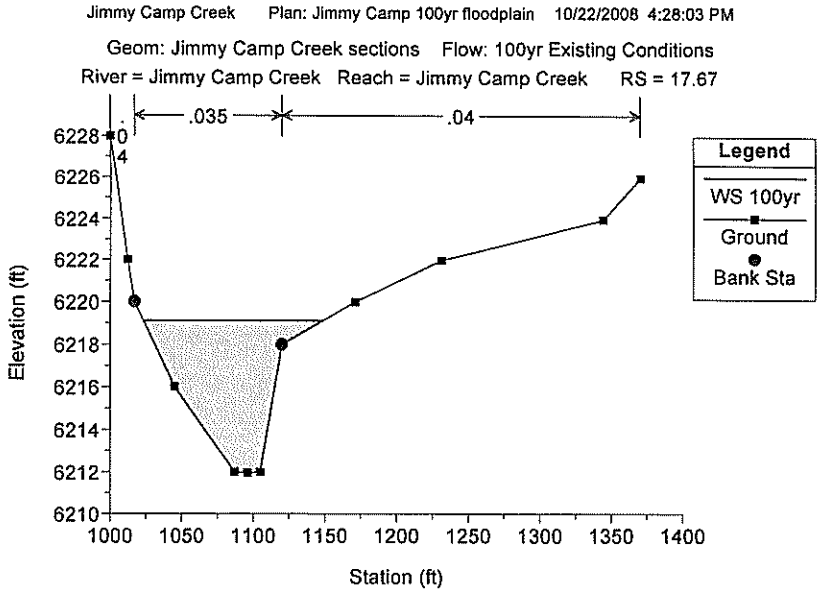
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 17.77
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
6236
6234
6232
6230
6228
6226
6224
6222
6220
1000
1100
1200
1300
1400
1500
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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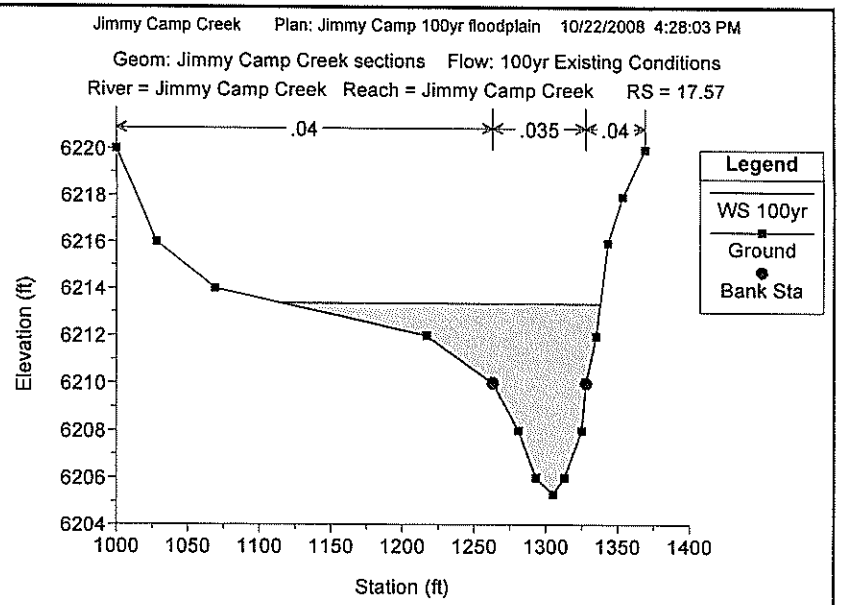
.035
.04
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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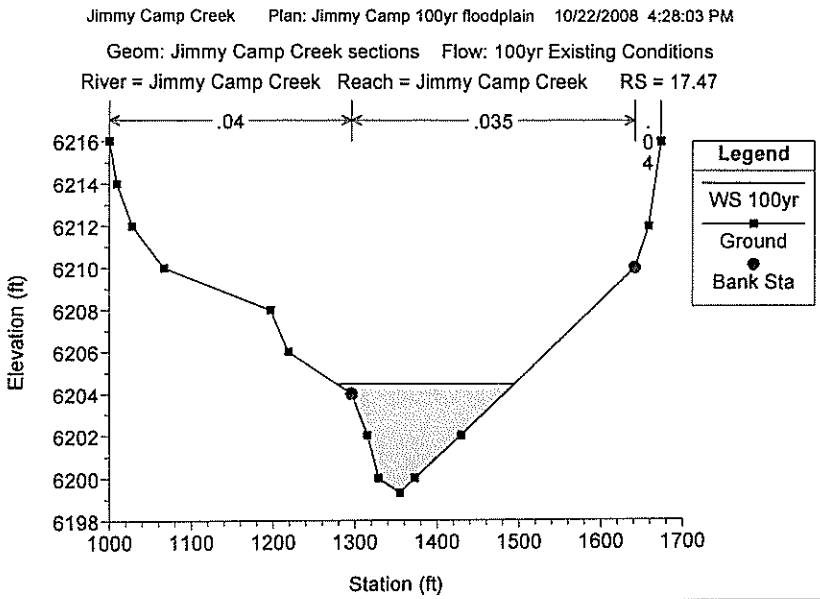
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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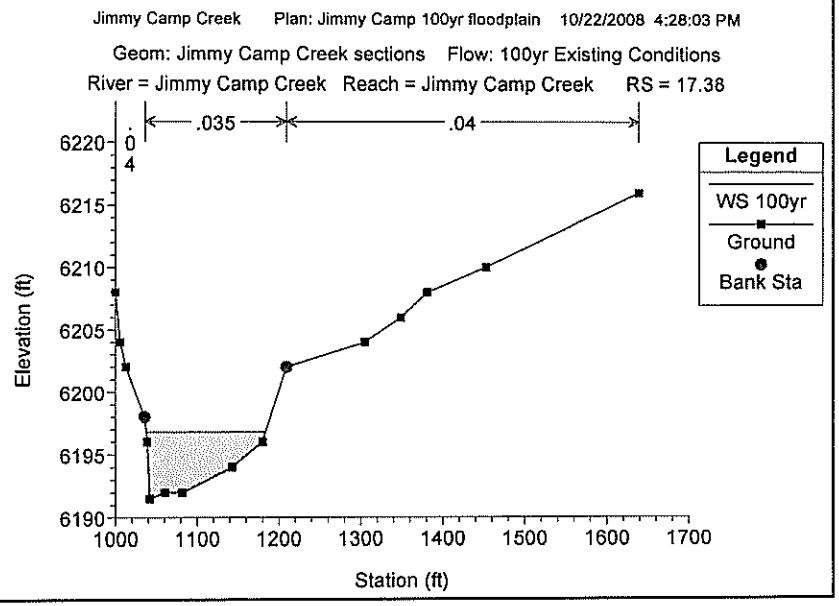
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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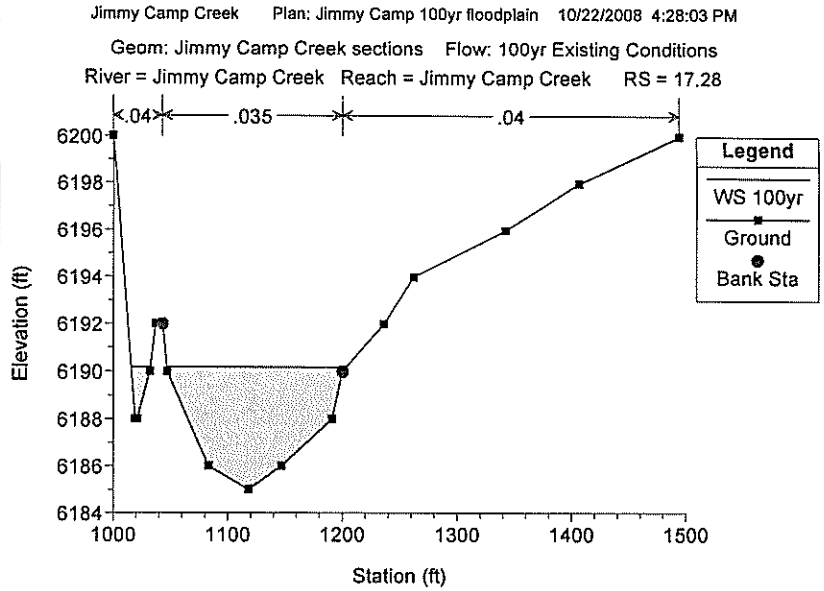
.035
.04
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.04
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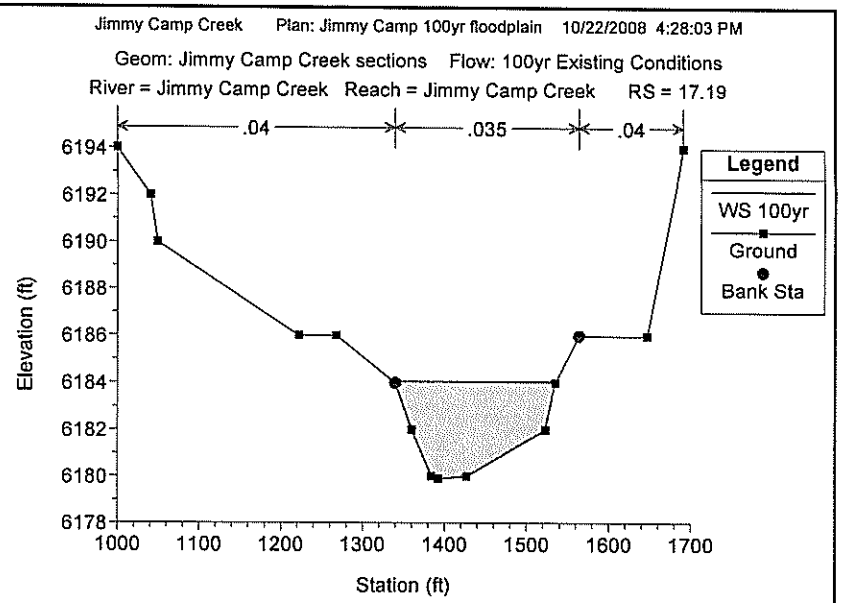
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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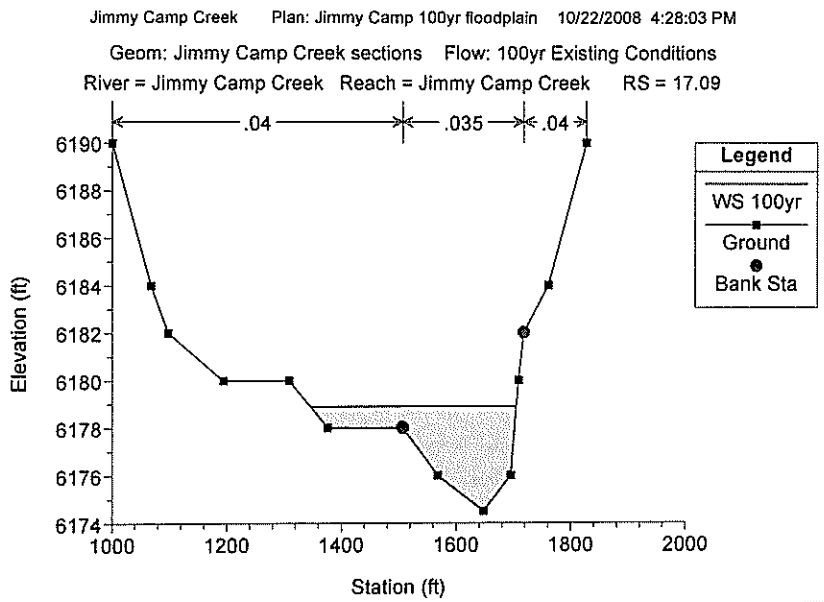
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 17.19
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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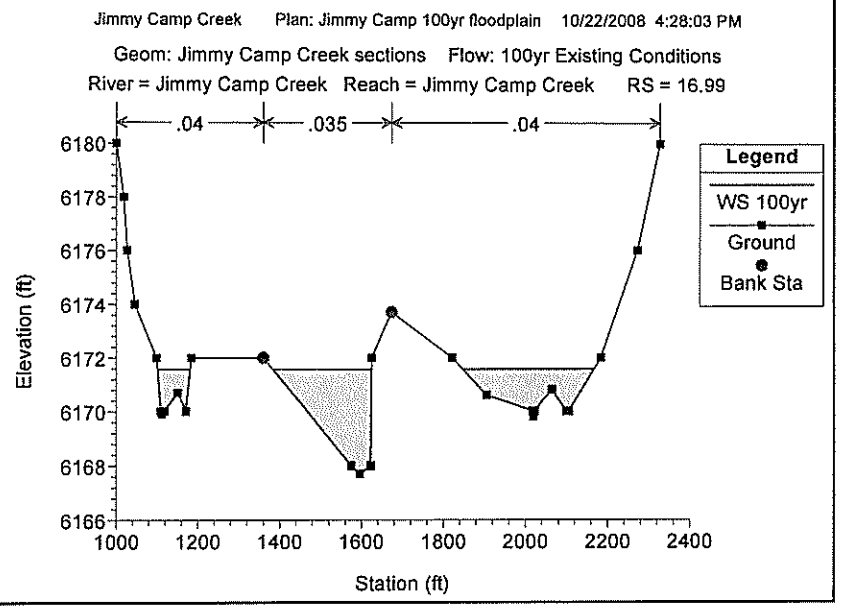
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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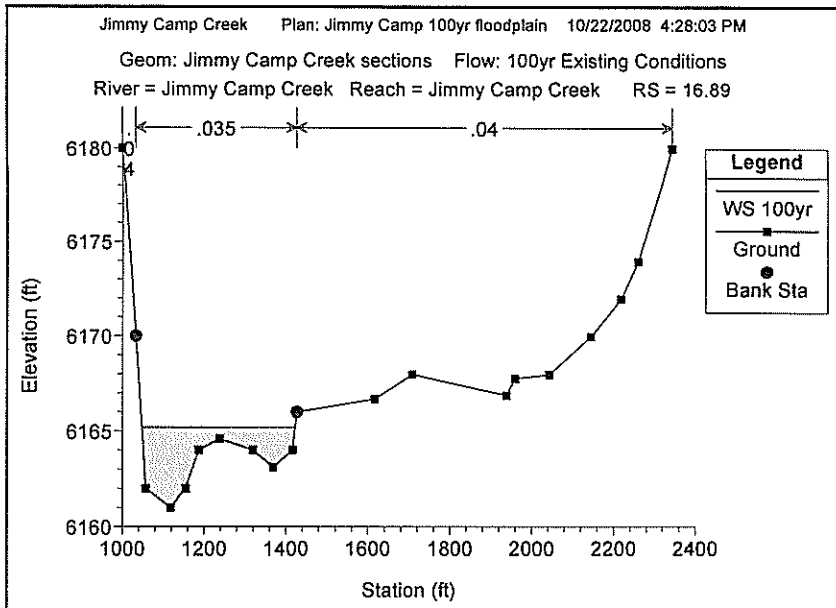
Ground
Bank Sta
Elevation (ft)
Station (ft)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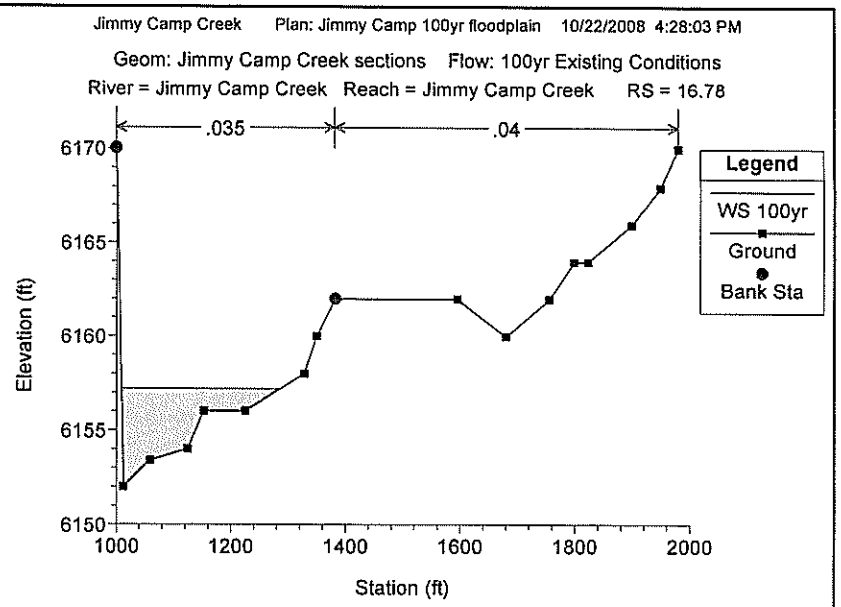
Station (ft)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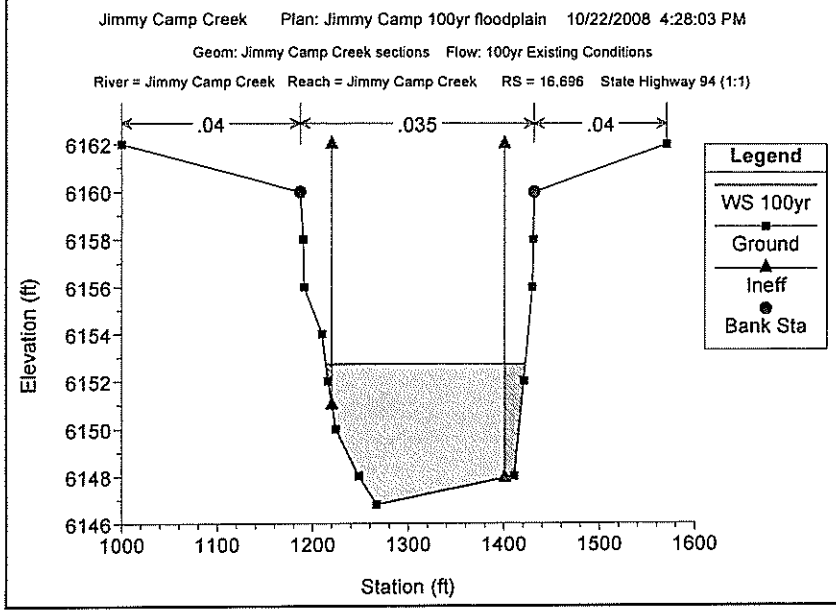
Station (ft)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Ground
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Bank Sta
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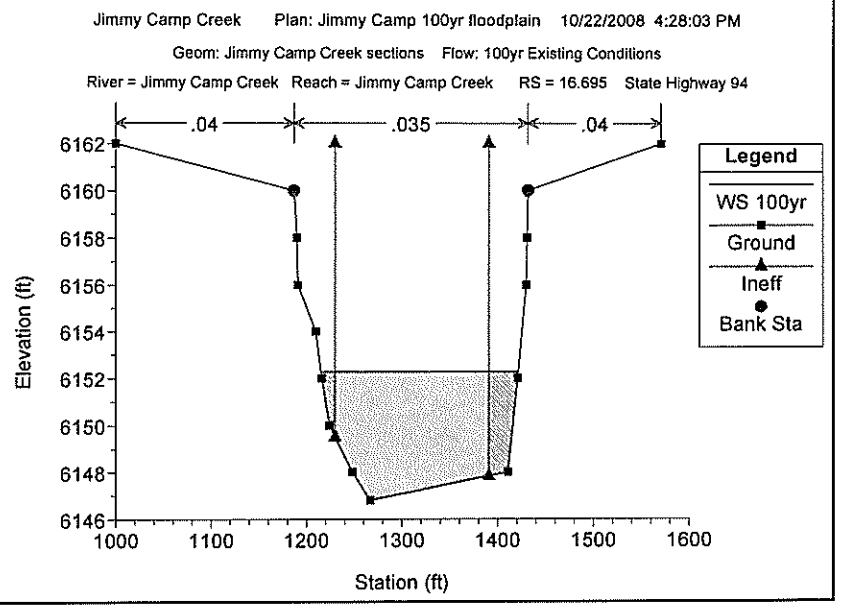
Station (ft)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Legend
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Ground
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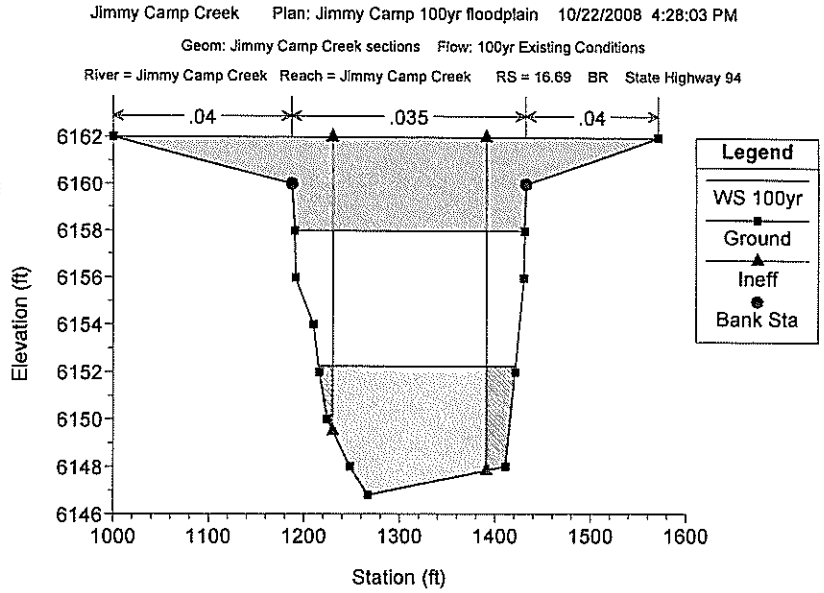
Bank Sta
Elevation (ft)
Station (ft)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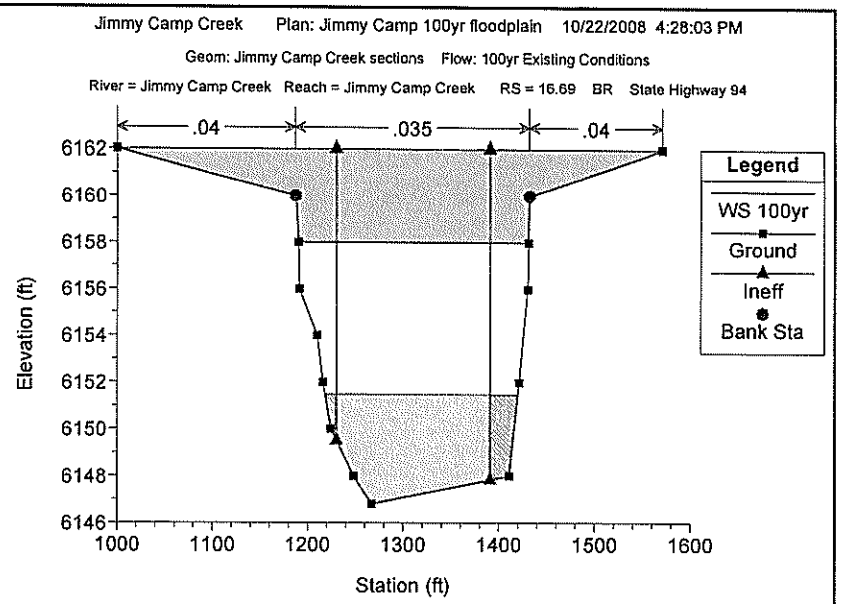
Ineff
Bank Sta
Elevation (ft)
Station (ft)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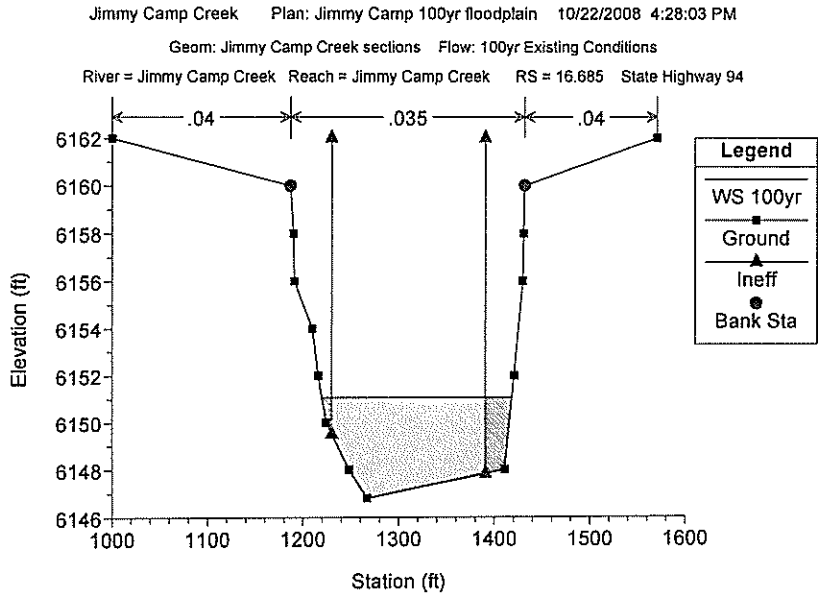
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Ground
Ineff
Bank Sta
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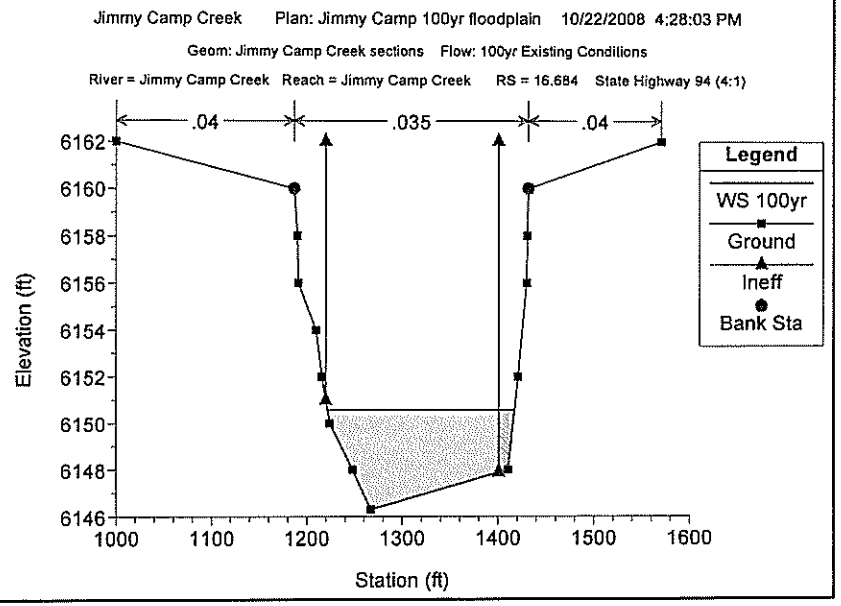
Station (ft)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Ground
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Bank Sta
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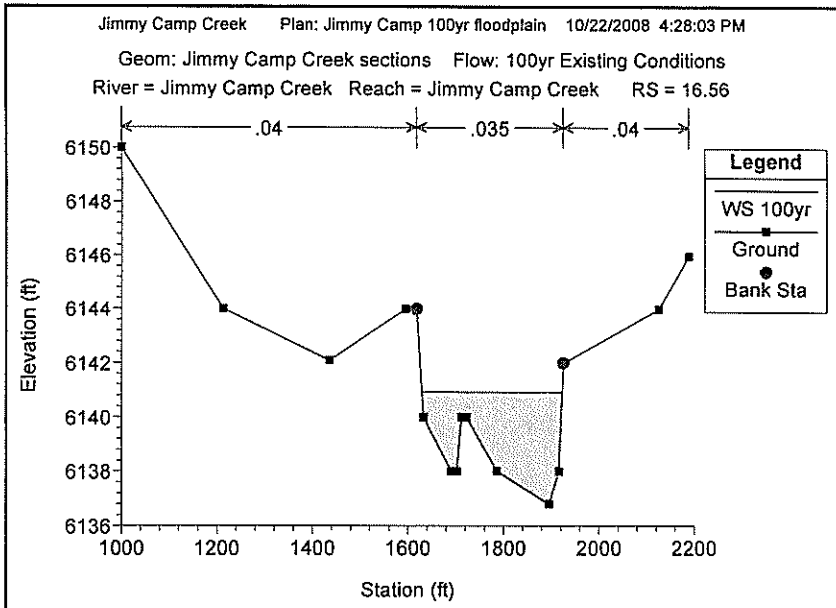
Station (ft)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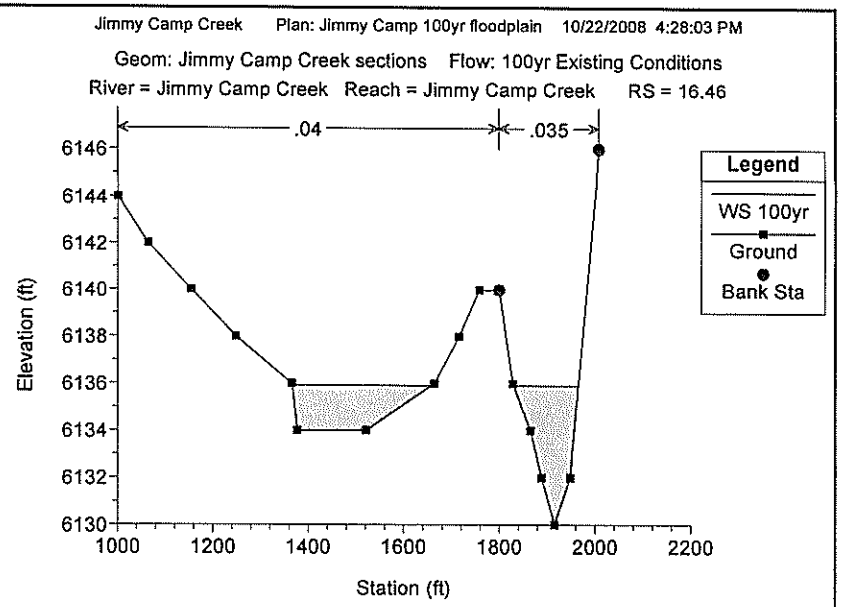
Bank Sta
Elevation (ft)
Station (ft)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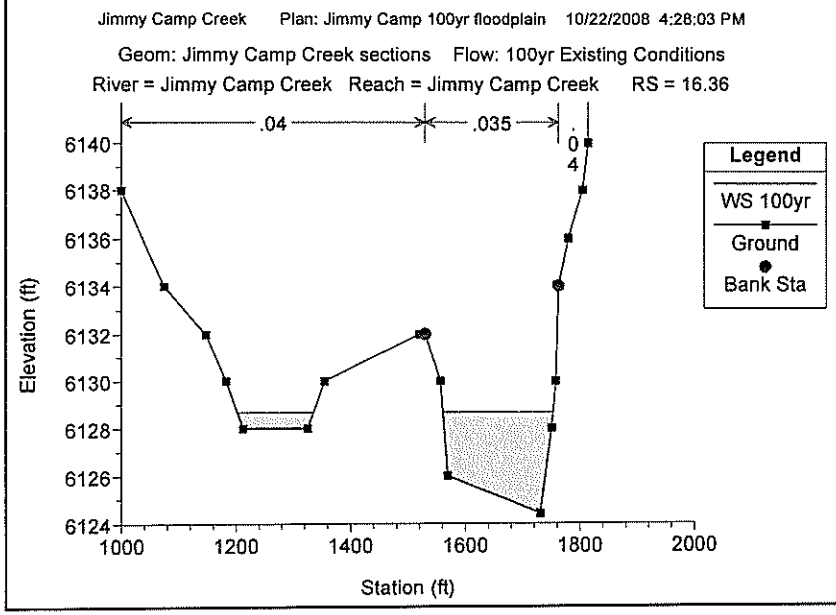
Ground
Bank Sta
Elevation (ft)
Station (ft)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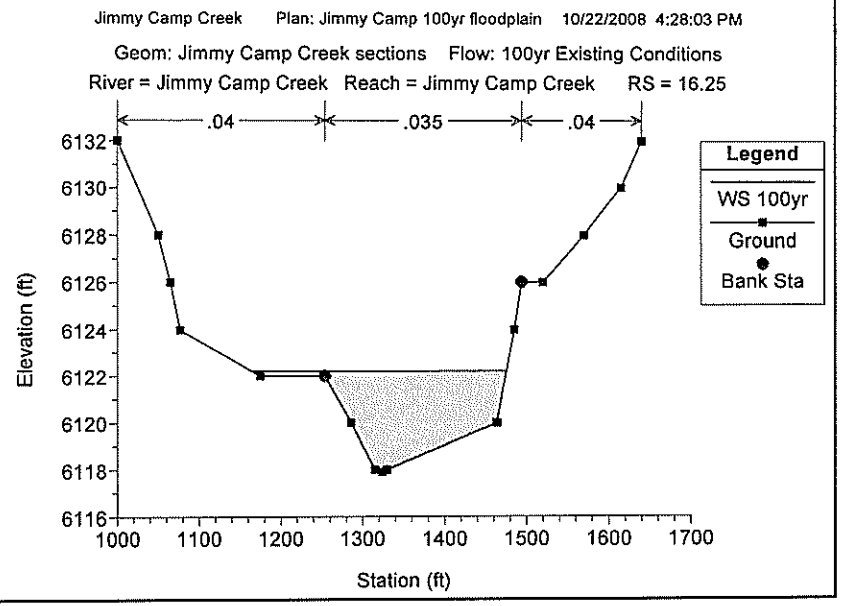
Ground
Bank Sta
Elevation (ft)
Station (ft)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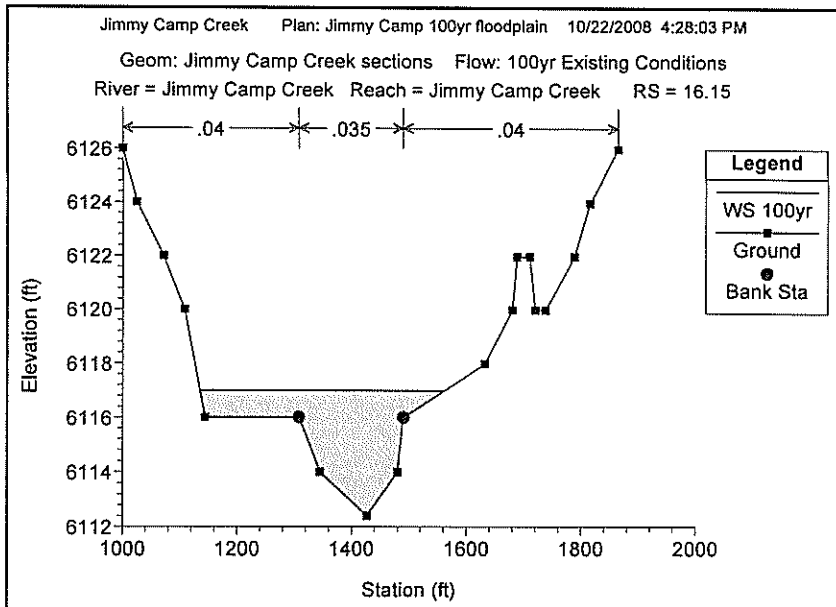
Ground
Bank Sta
Elevation (ft)
Station (ft)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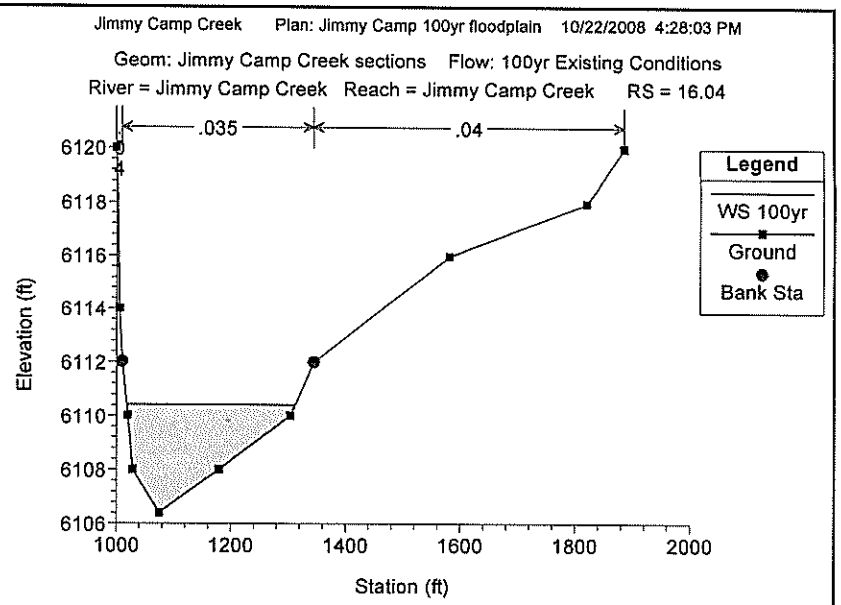
Ground
Bank Sta
Elevation (ft)
Station (ft)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WS 100yr
Ground
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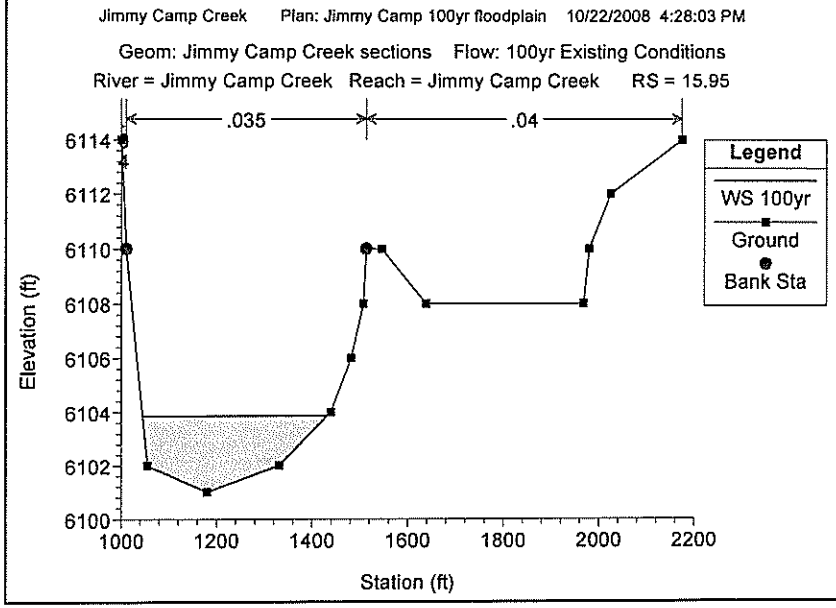
Station (ft)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Ground
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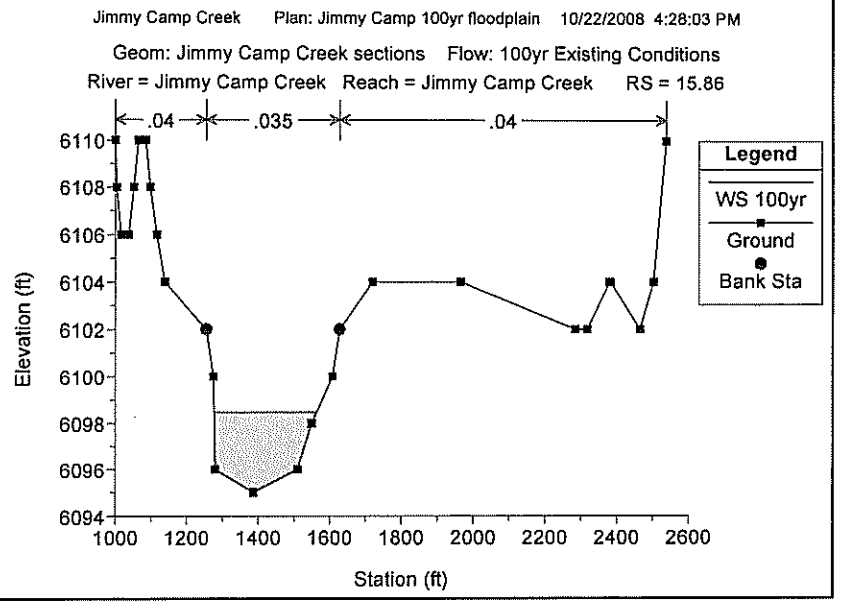
Station (ft)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Bank Sta
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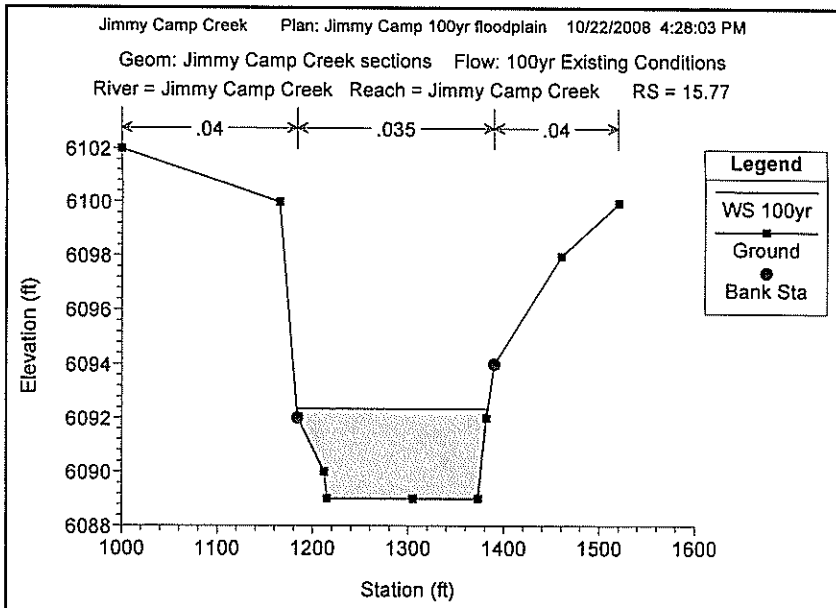
Station (ft)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Legend
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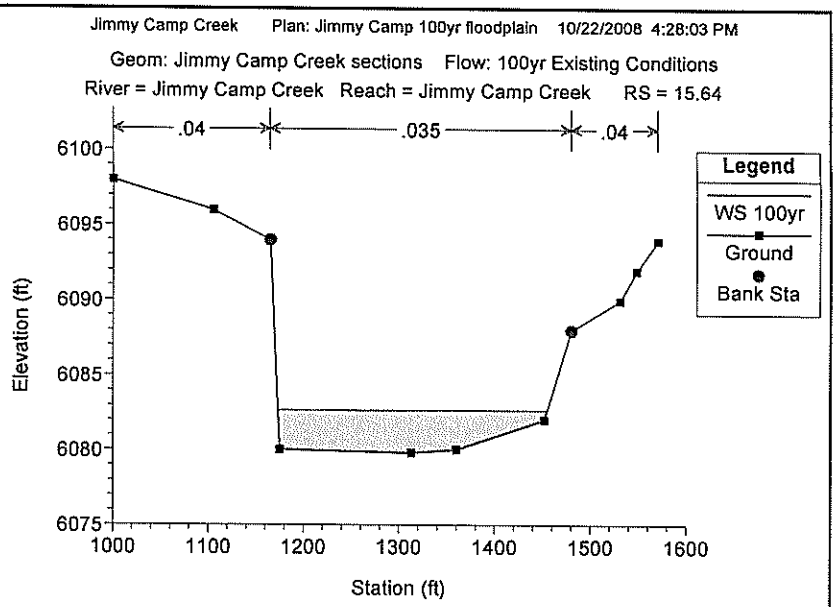
Ground
Bank Sta
Elevation (ft)
Station (ft)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Bank Sta
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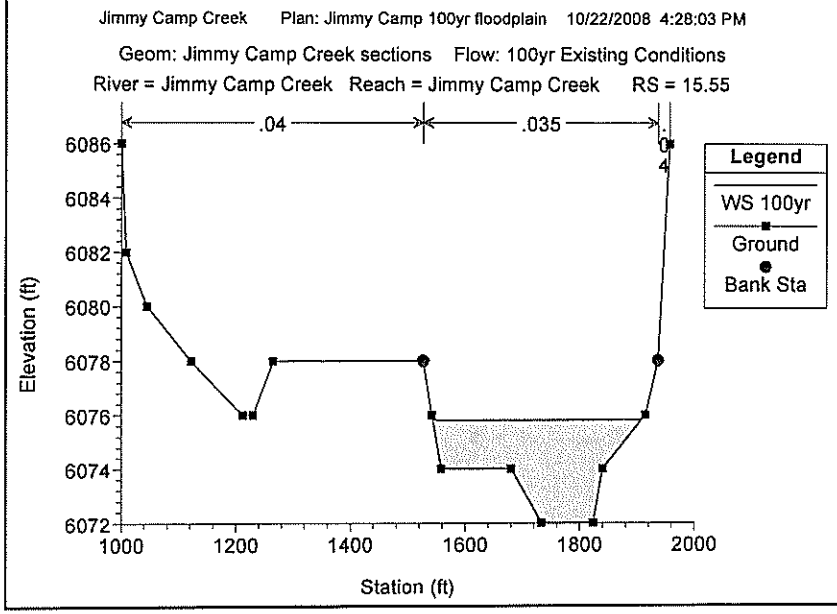
Station (ft)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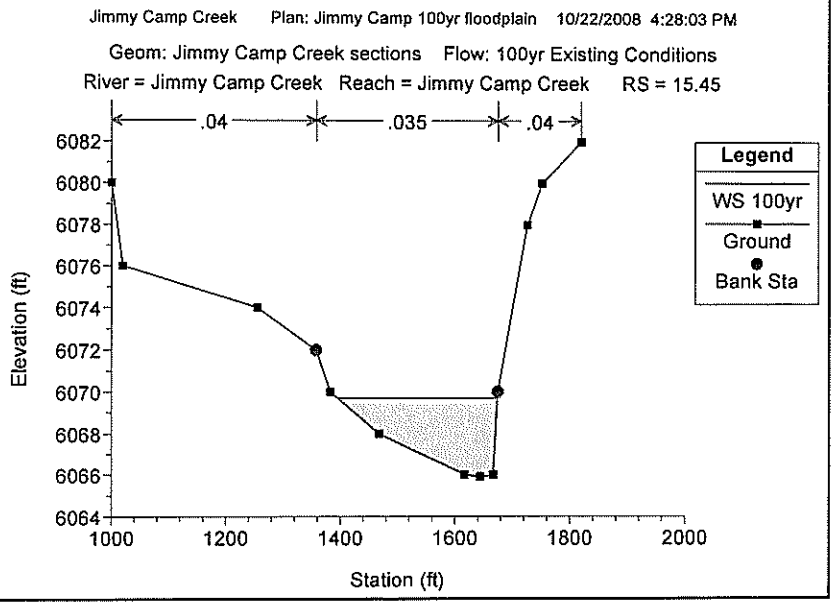
Bank Sta
Elevation (ft)
Station (ft)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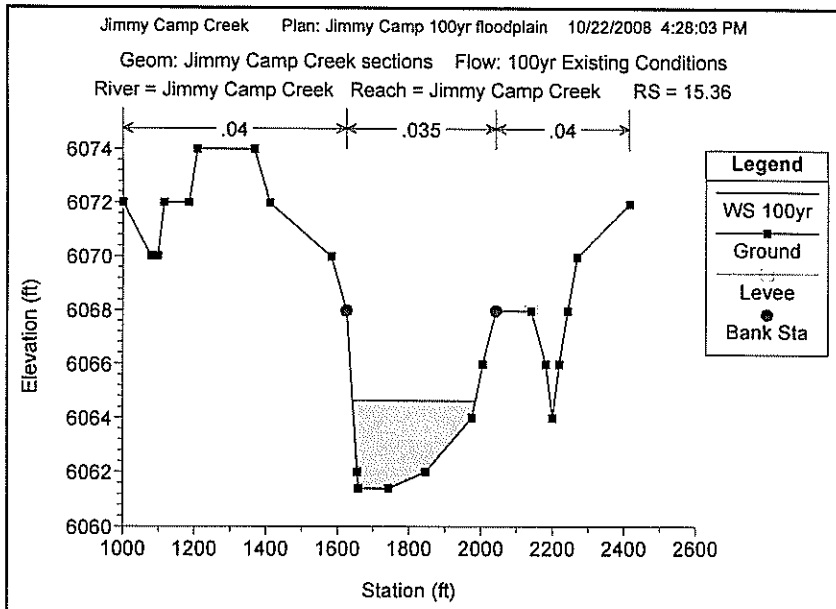
Bank Sta
Elevation (ft)
Station (ft)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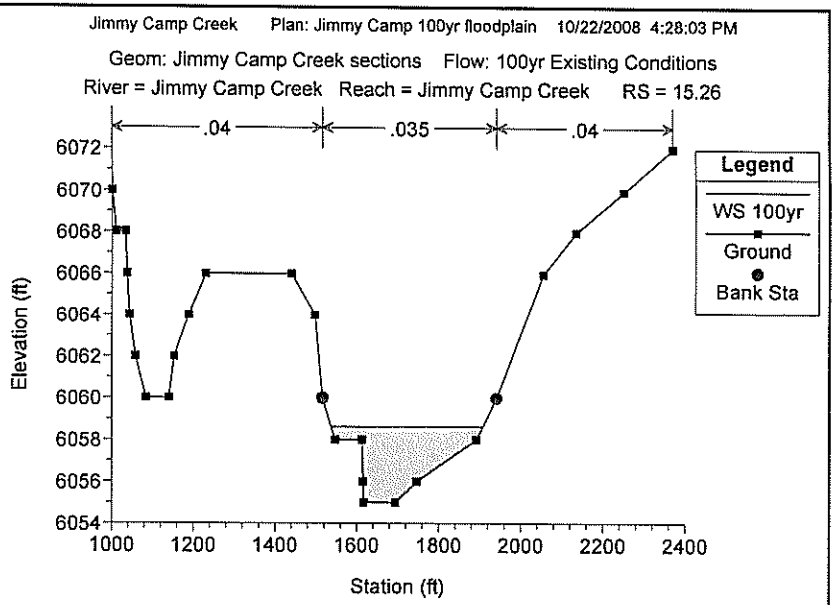
Levee
Bank Sta
Elevation (ft)
Station (ft)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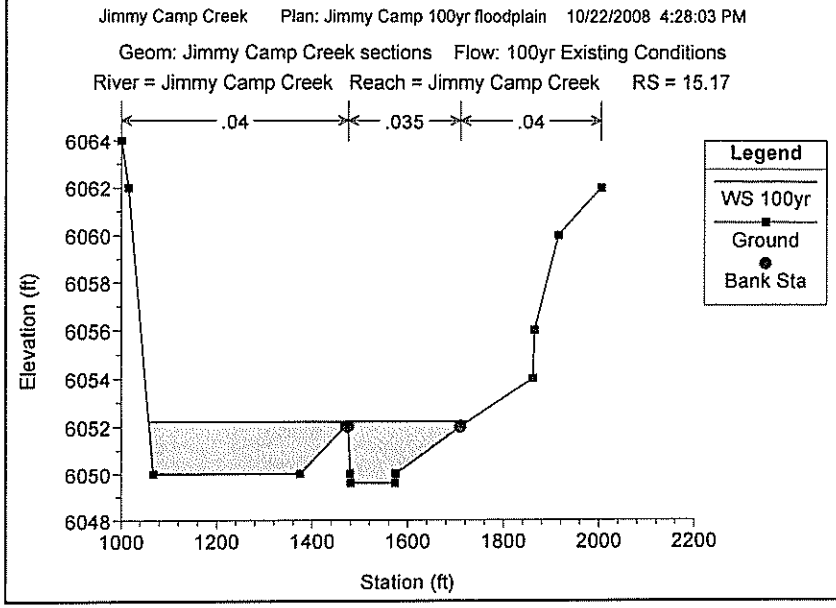
Station (ft)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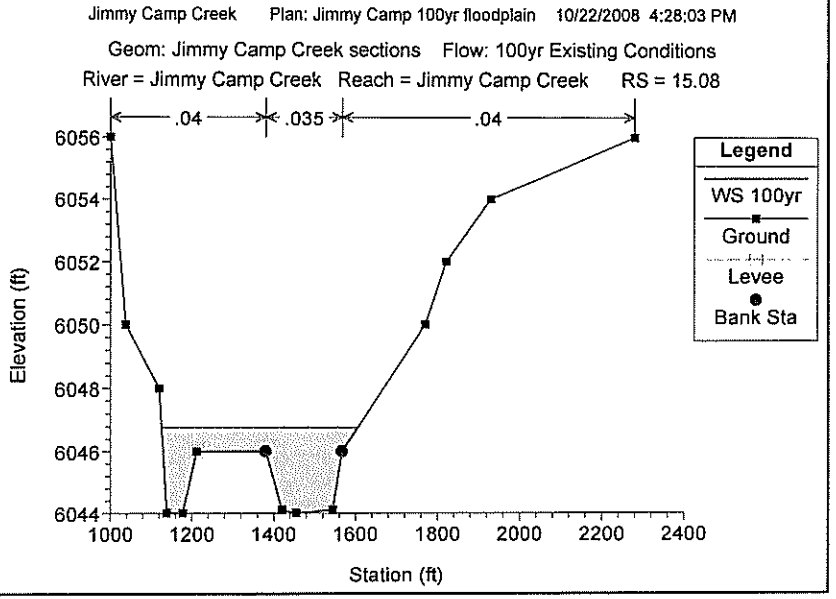
Bank Sta
Elevation (ft)
Station (ft)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Bank Sta
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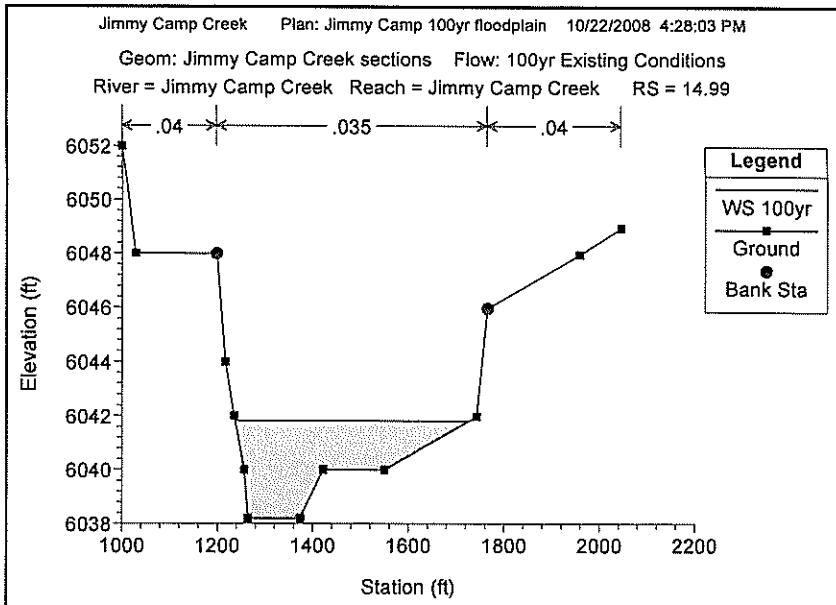
Station (ft)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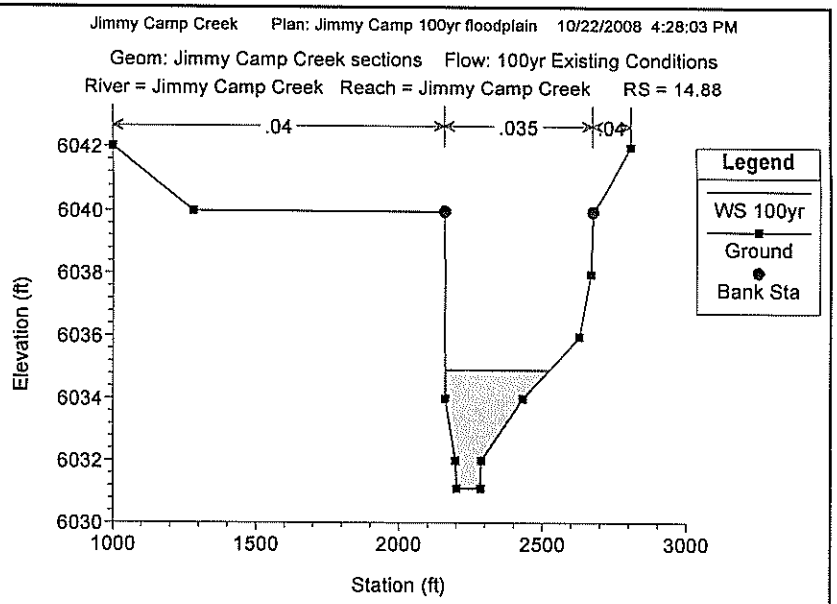
Bank Sta
Elevation (ft)
Station (ft)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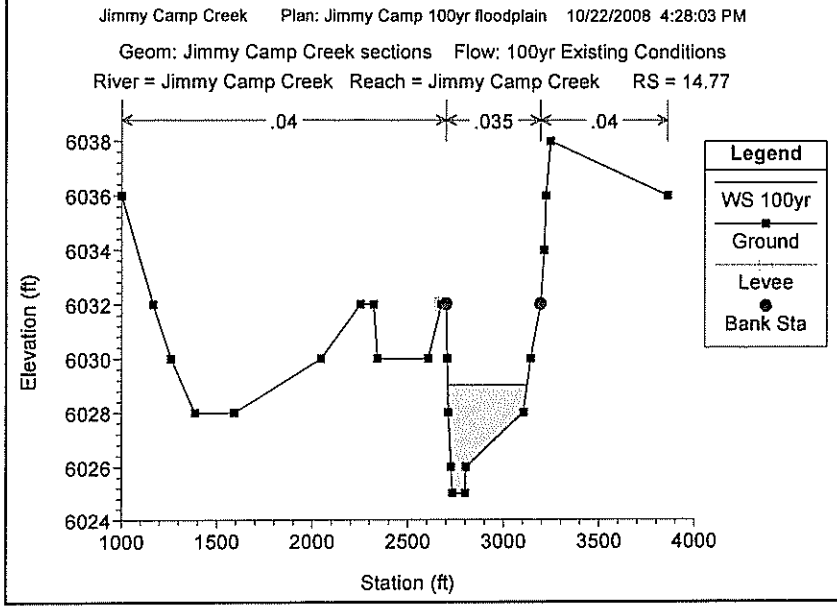
Station (ft)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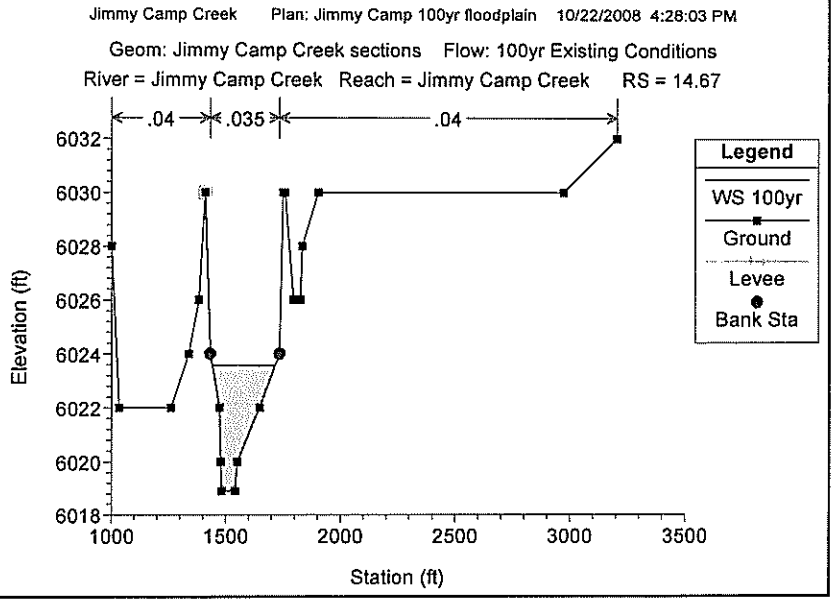
Elevation (ft)
Station (ft)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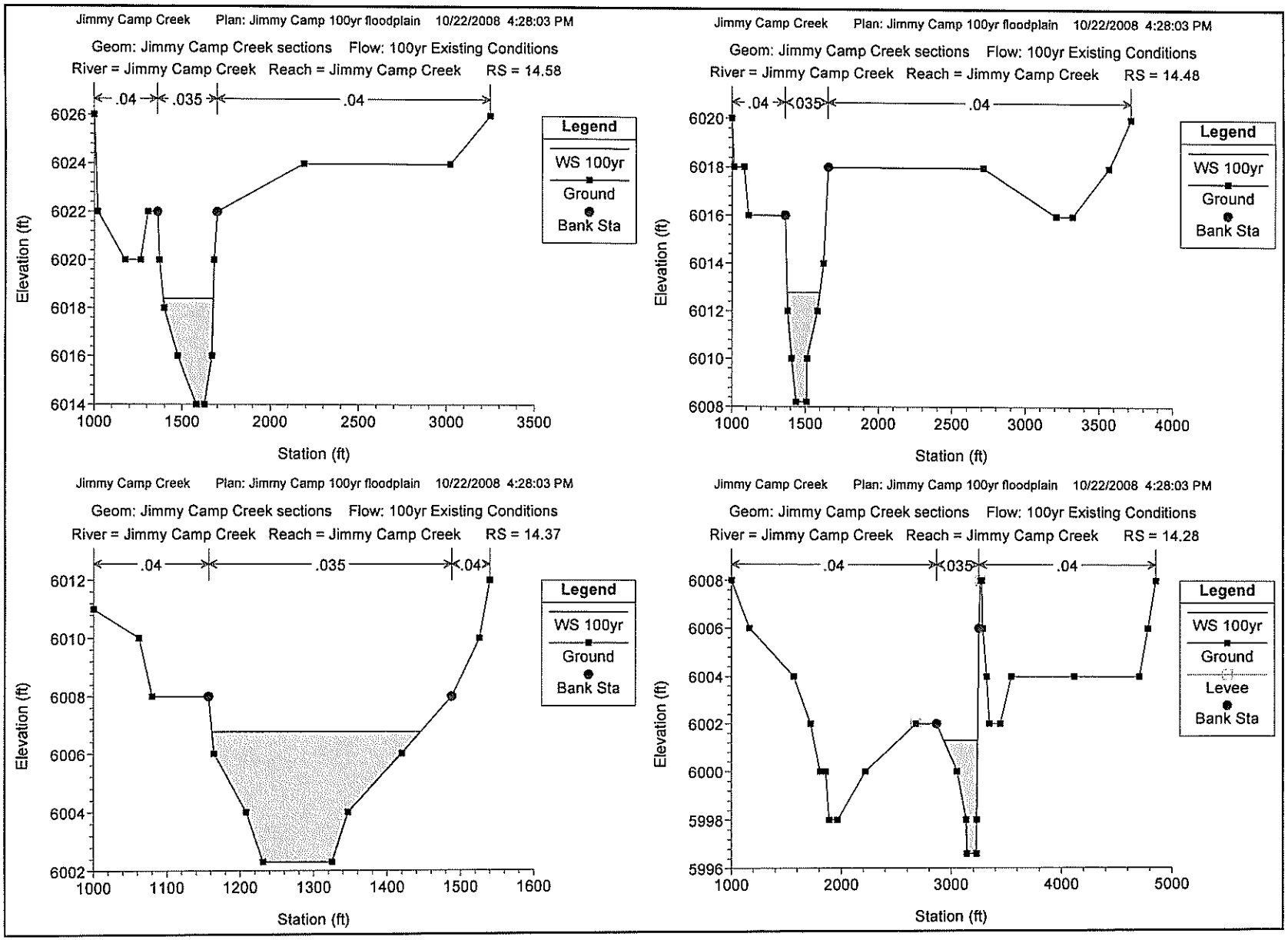
Bank Sta
Elevation (ft)
Station (ft)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Ground
Bank Sta
Elevation (ft)
Station (ft)
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.035
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Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
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Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
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Levee
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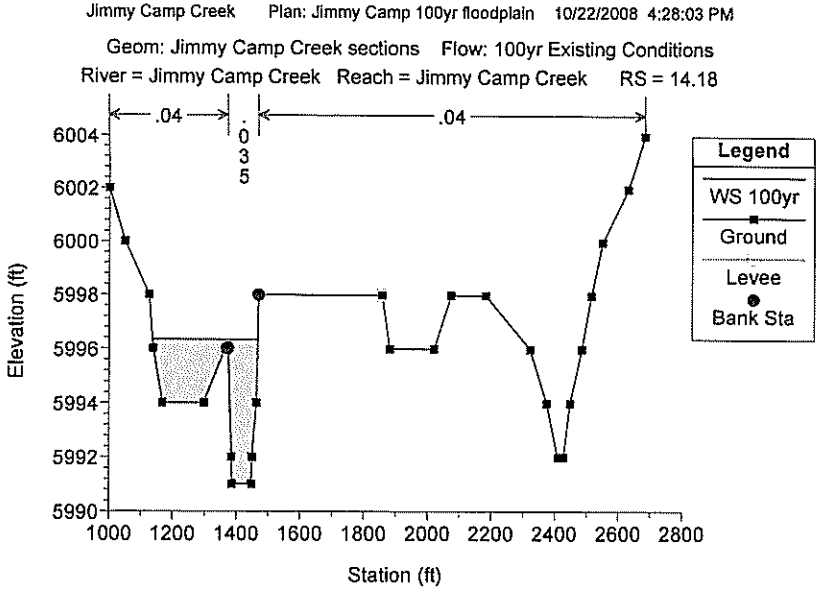
Station (ft)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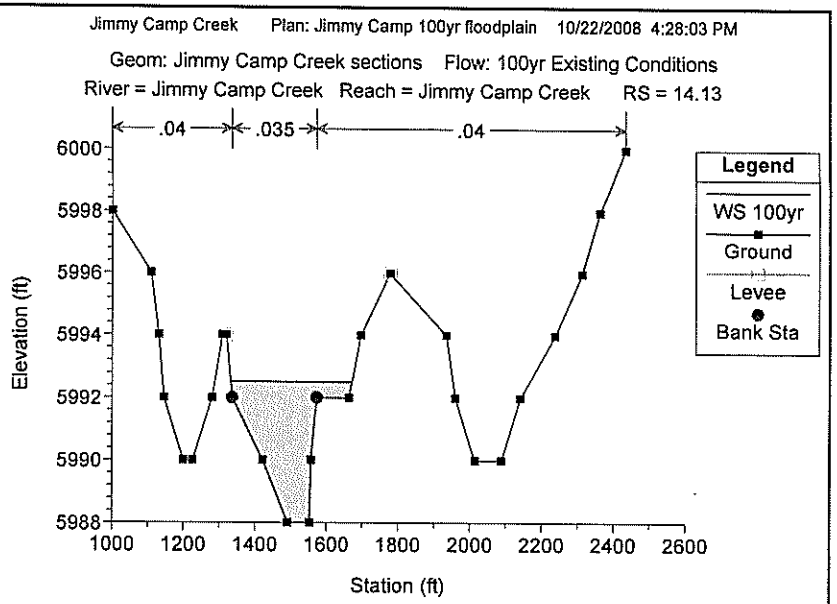
Station (ft)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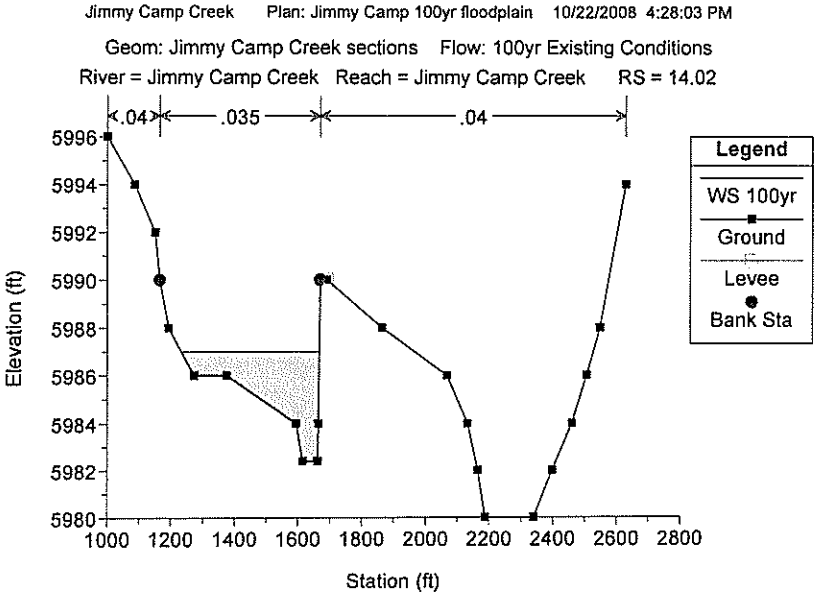
Station (ft)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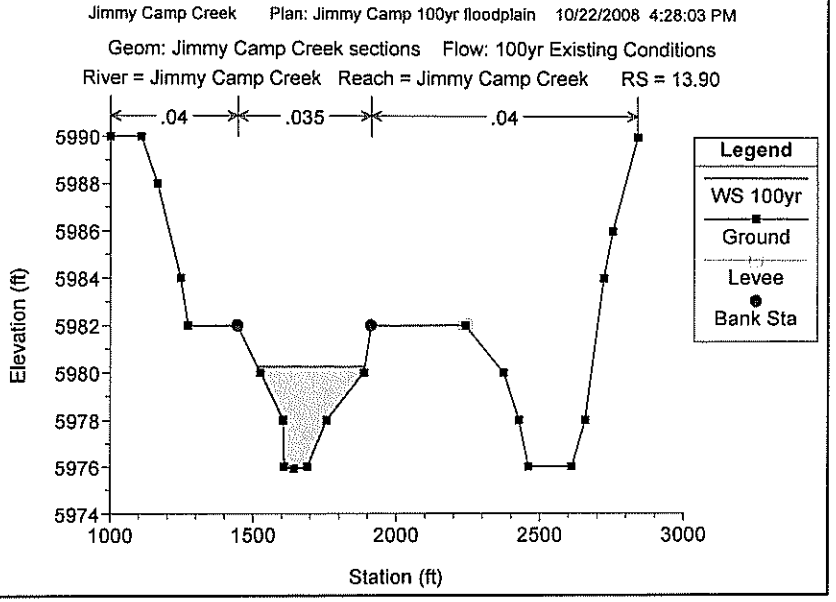
Levee
Bank Sta
Elevation (ft)
Station (ft)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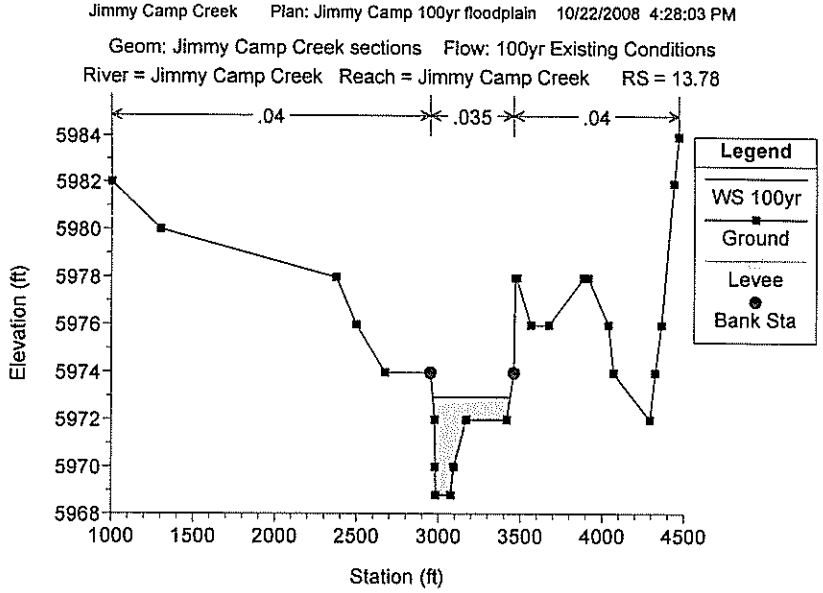
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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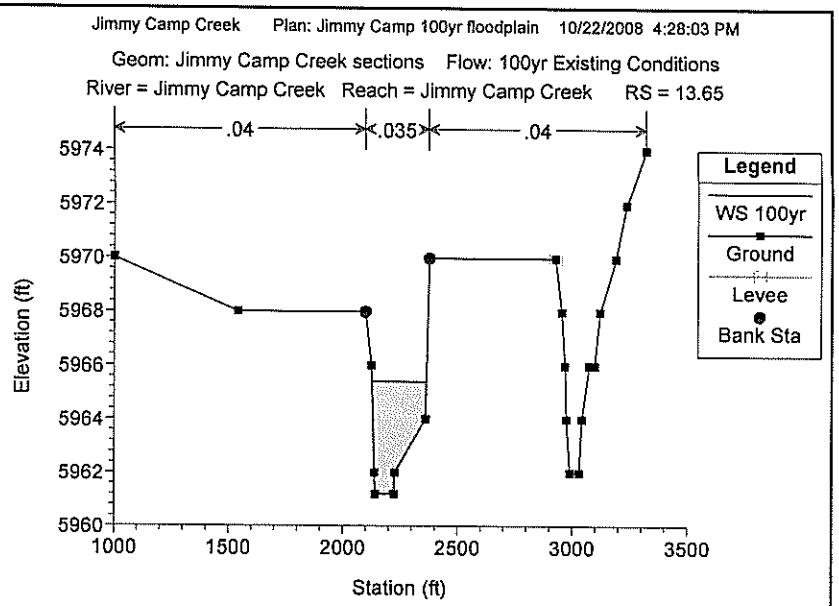
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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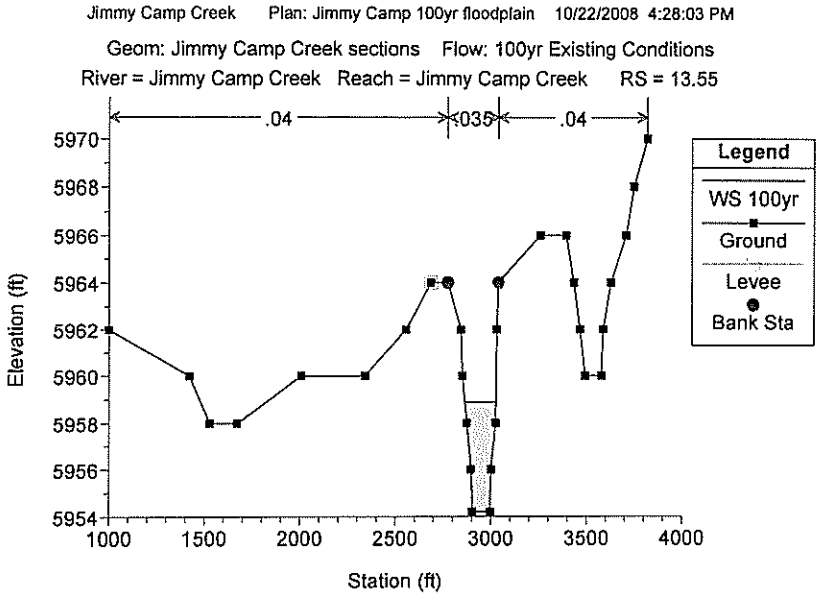
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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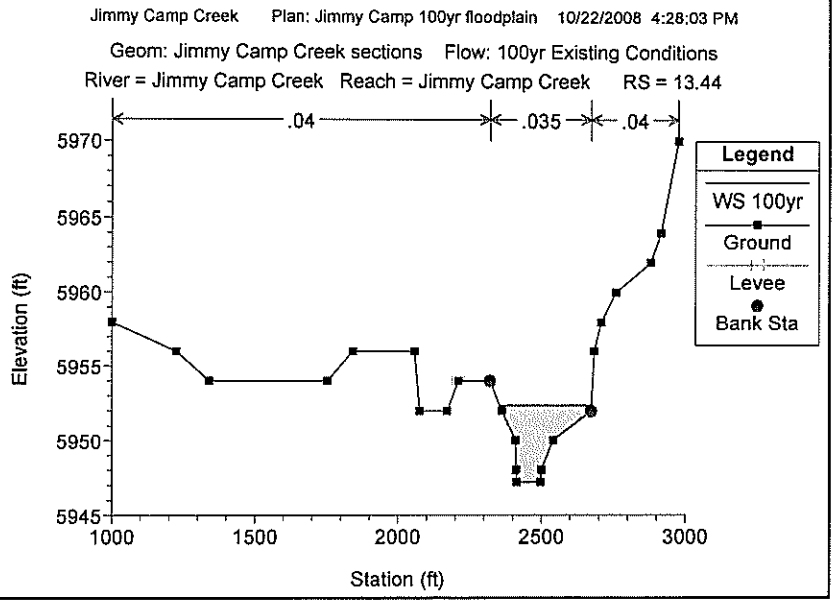
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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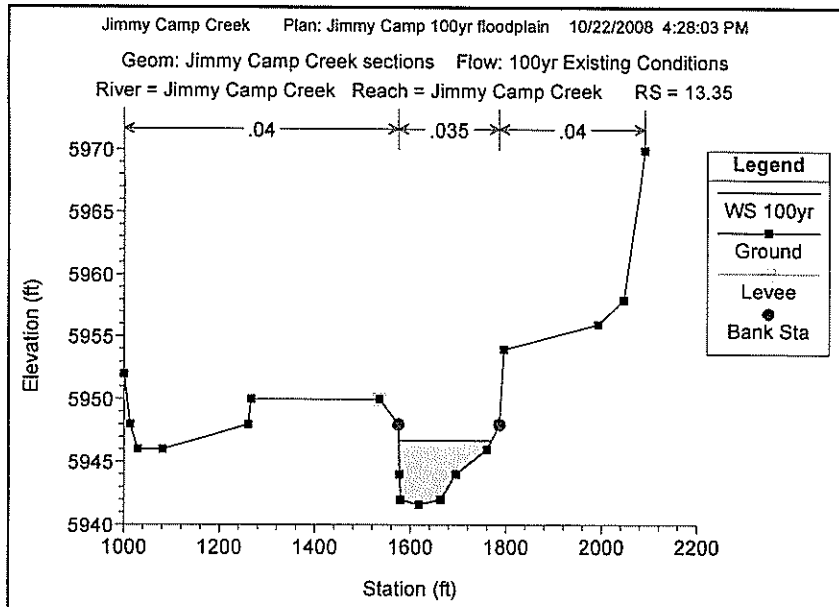
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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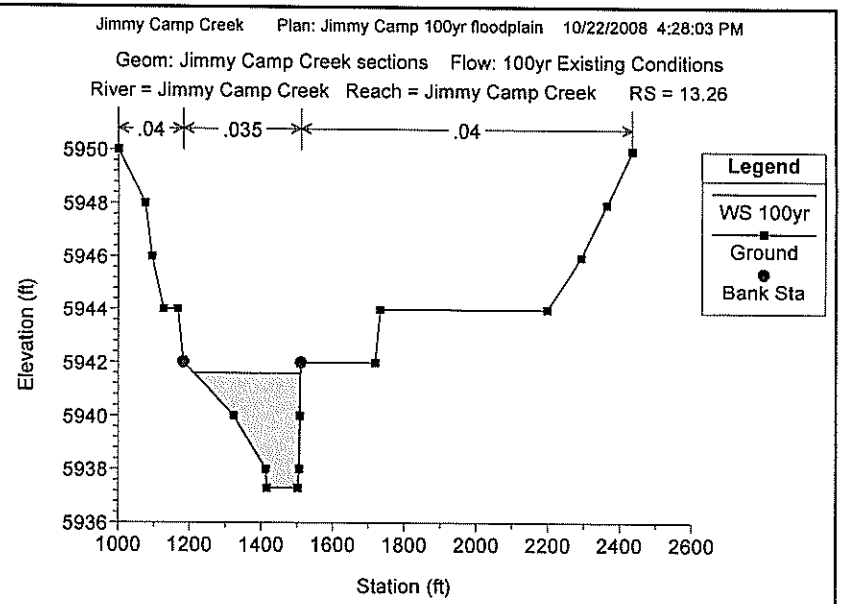
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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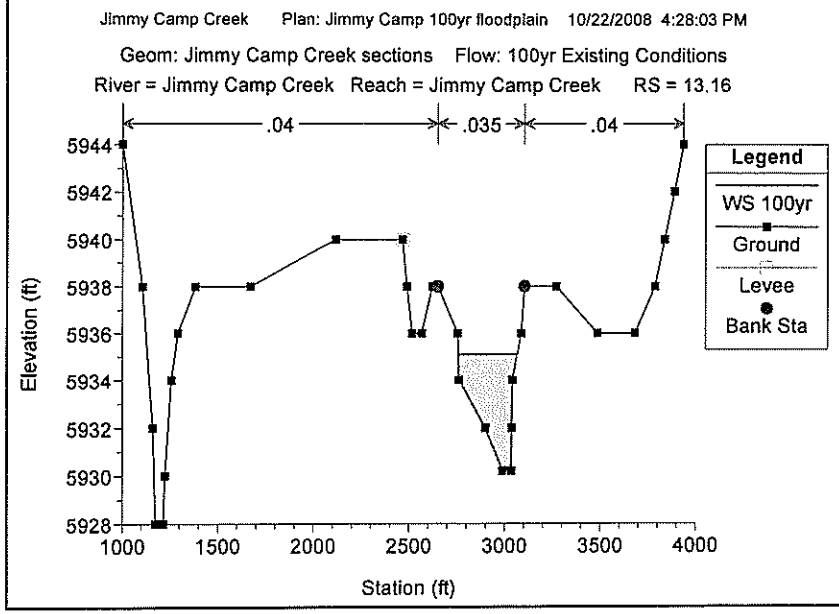
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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.04
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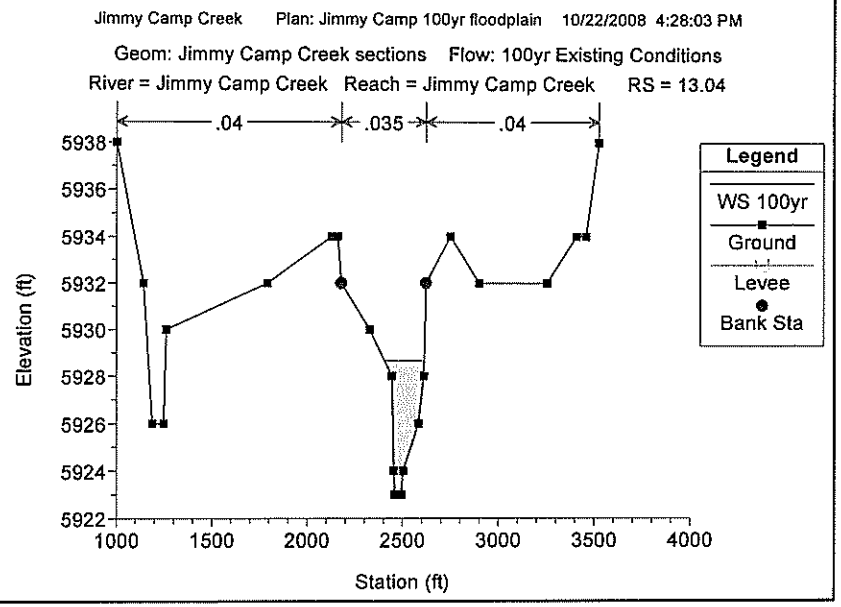
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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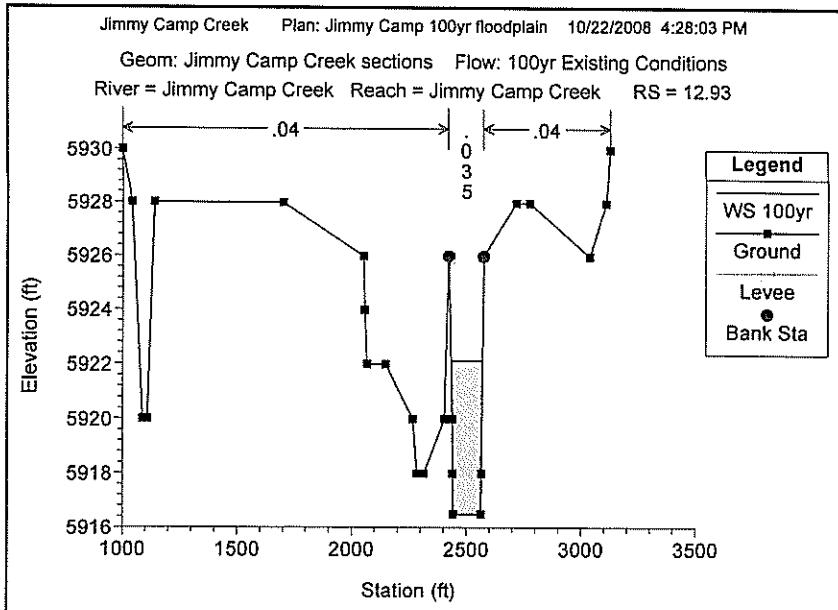
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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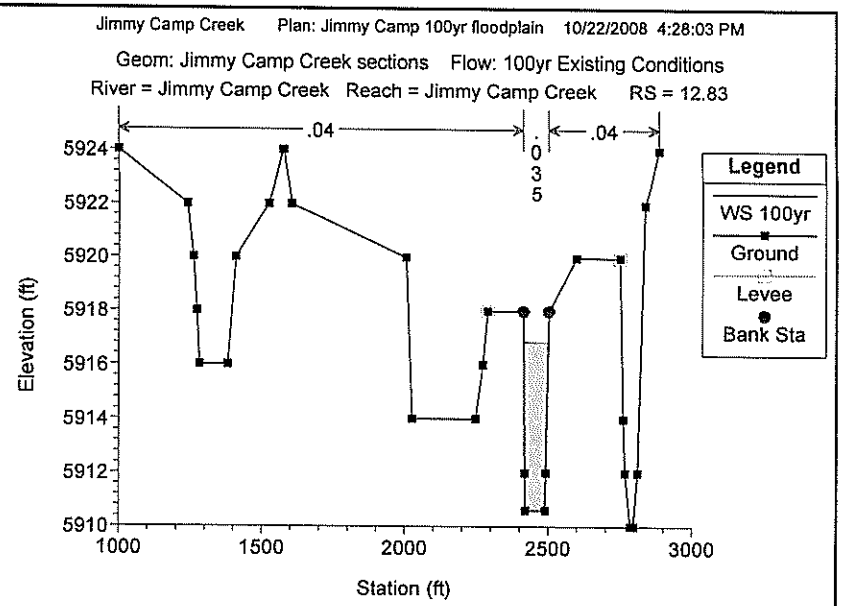
.04
.035
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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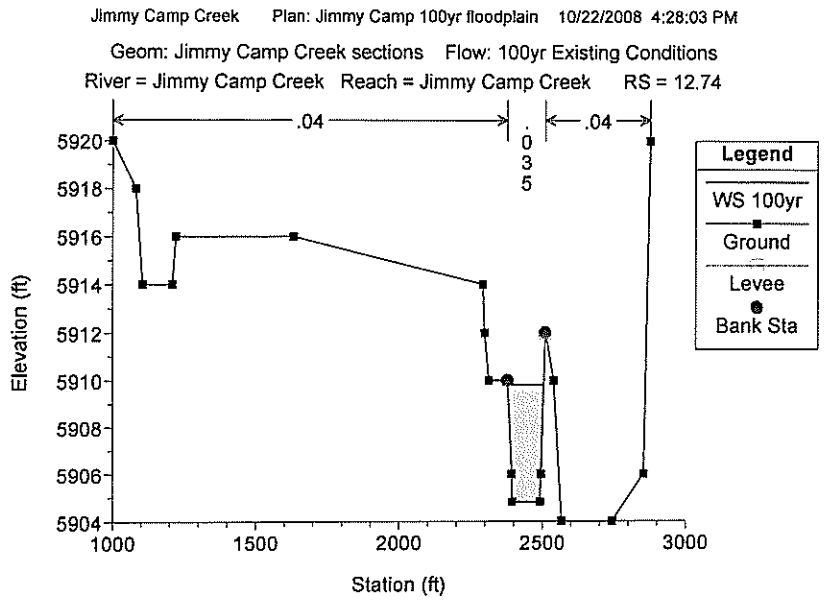
.04
.035
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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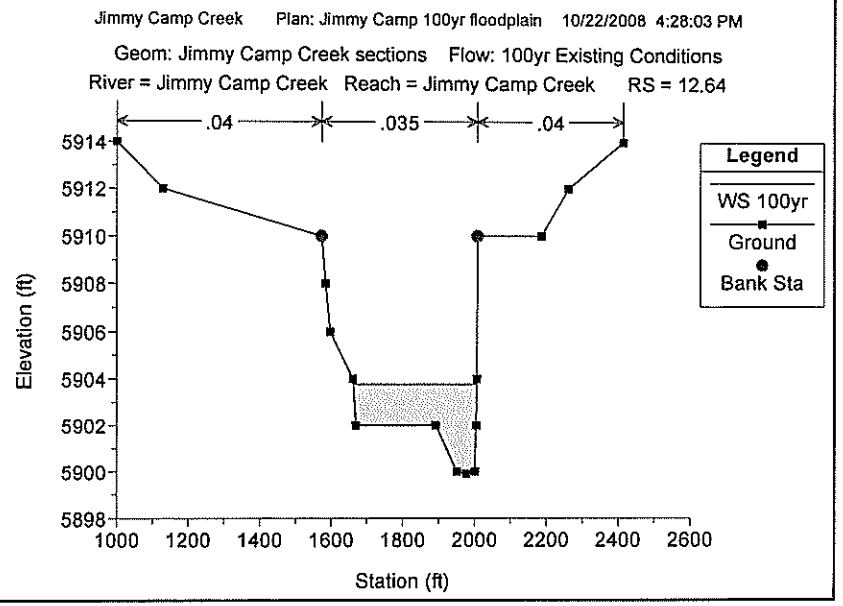
.04
.035
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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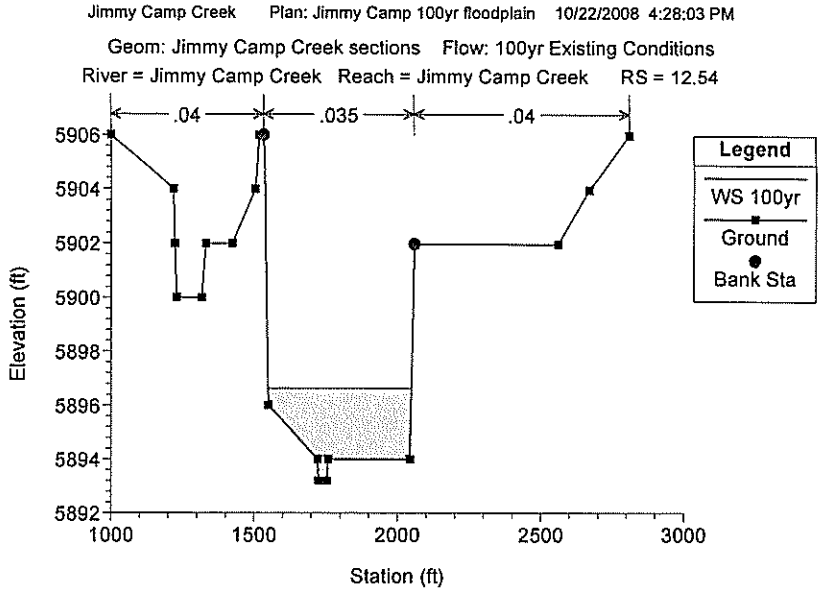
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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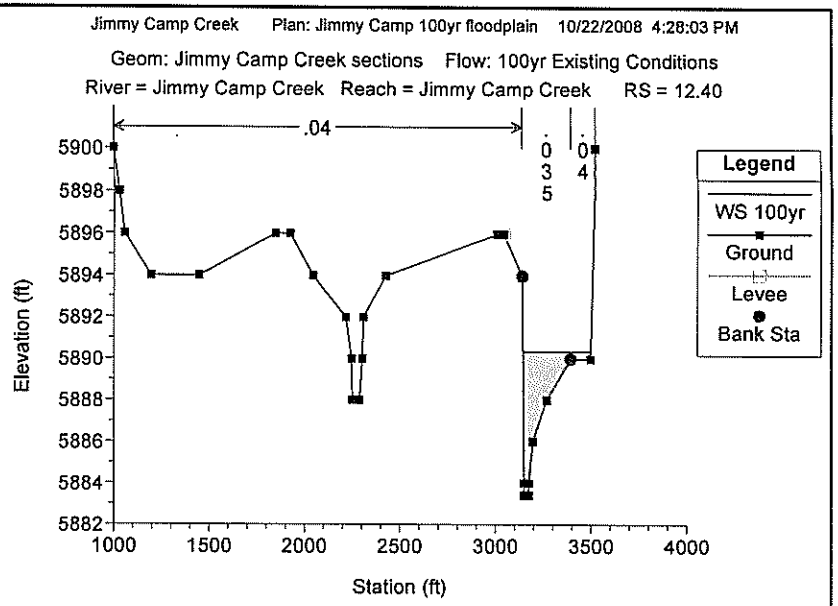
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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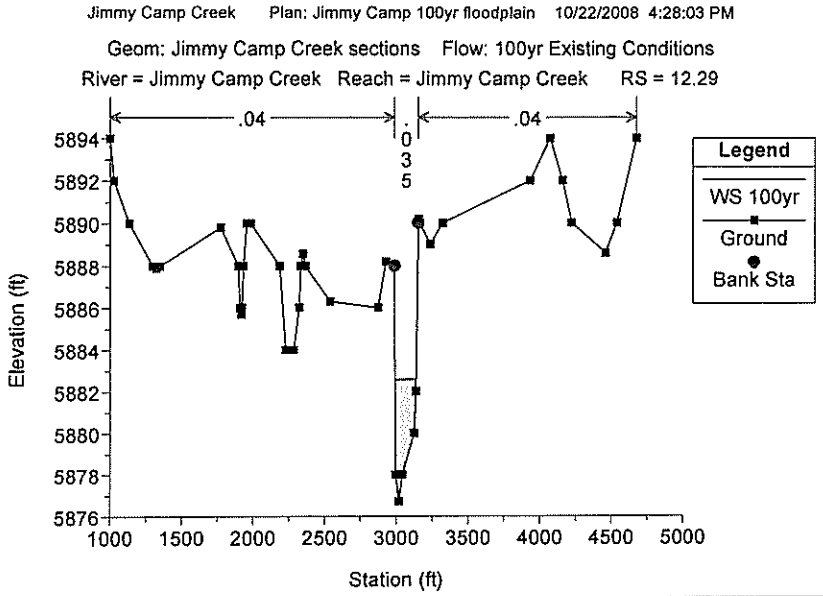
.04
.035
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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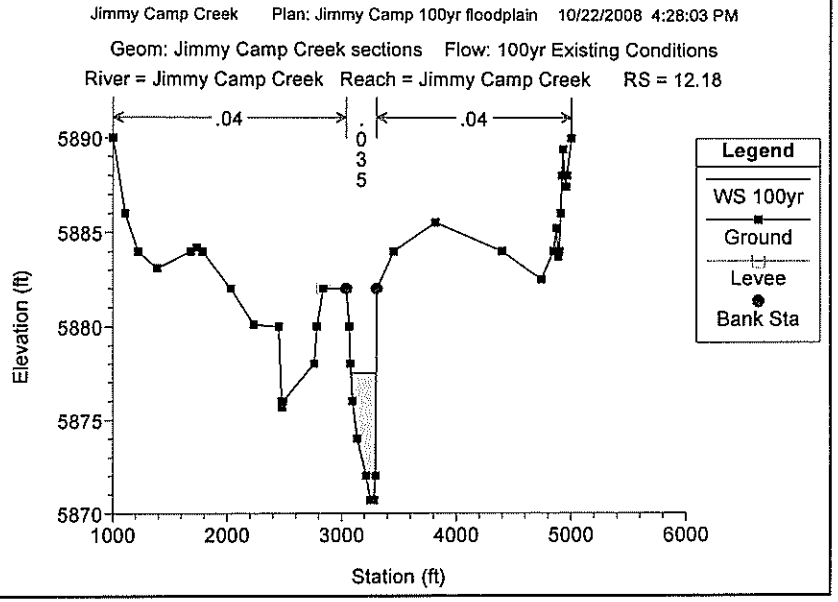
.04
.035
.04
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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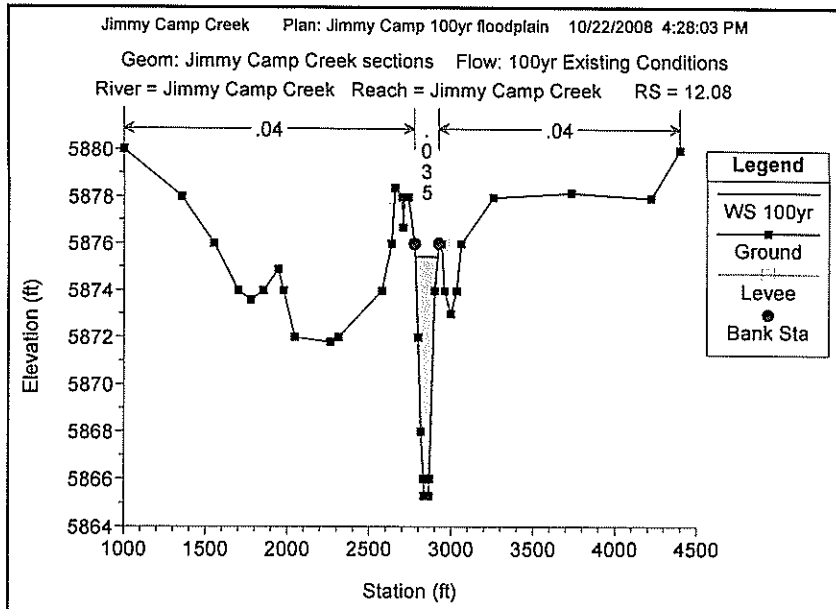
.04
.035
.04
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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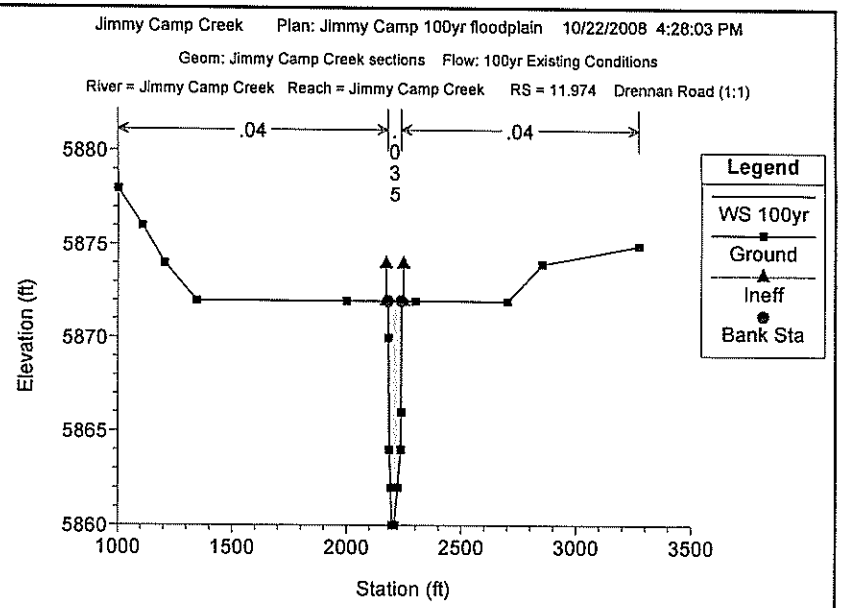
.04
.04
.035
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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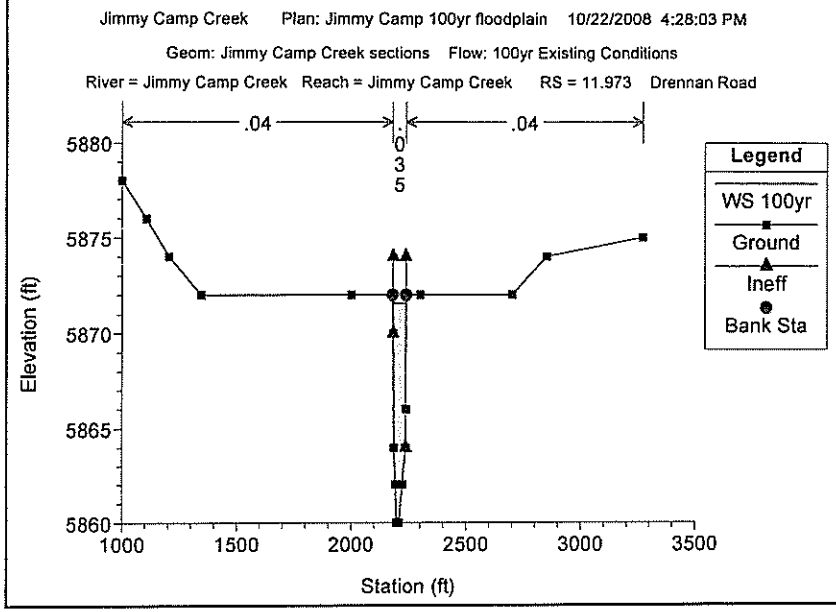
.04
.04
.035
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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.04
.04
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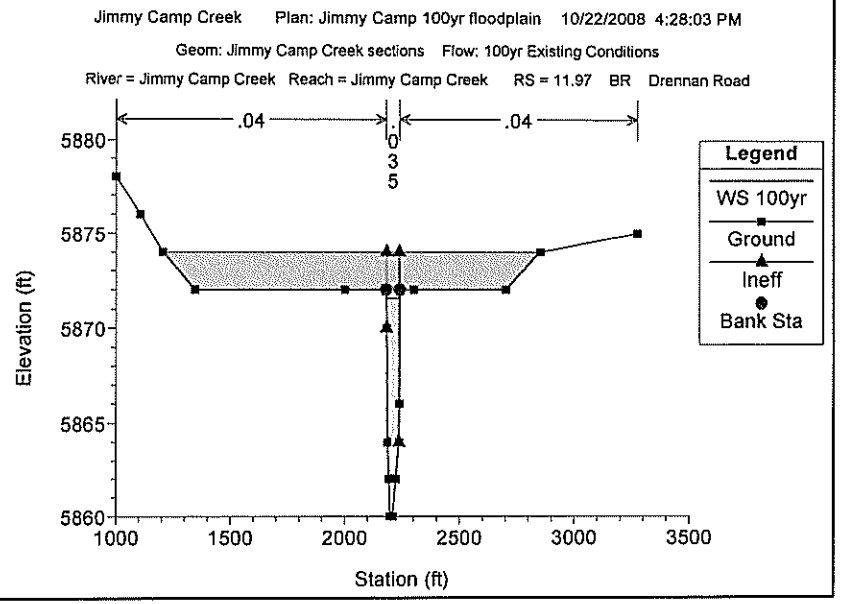
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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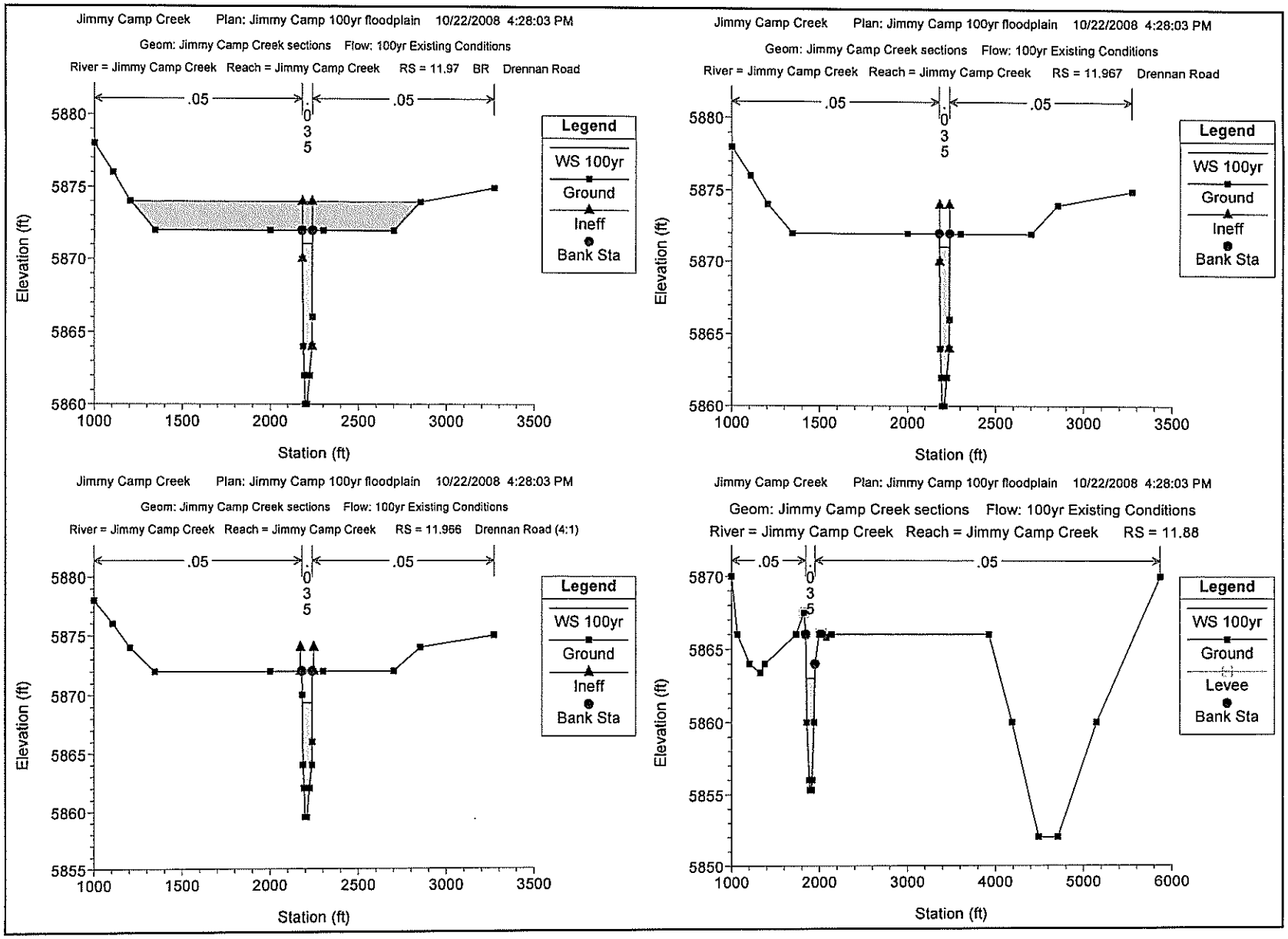
.04
.04
.035
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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.05
.05
0.35
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.05
.05
0.35
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.05
.05
0.35
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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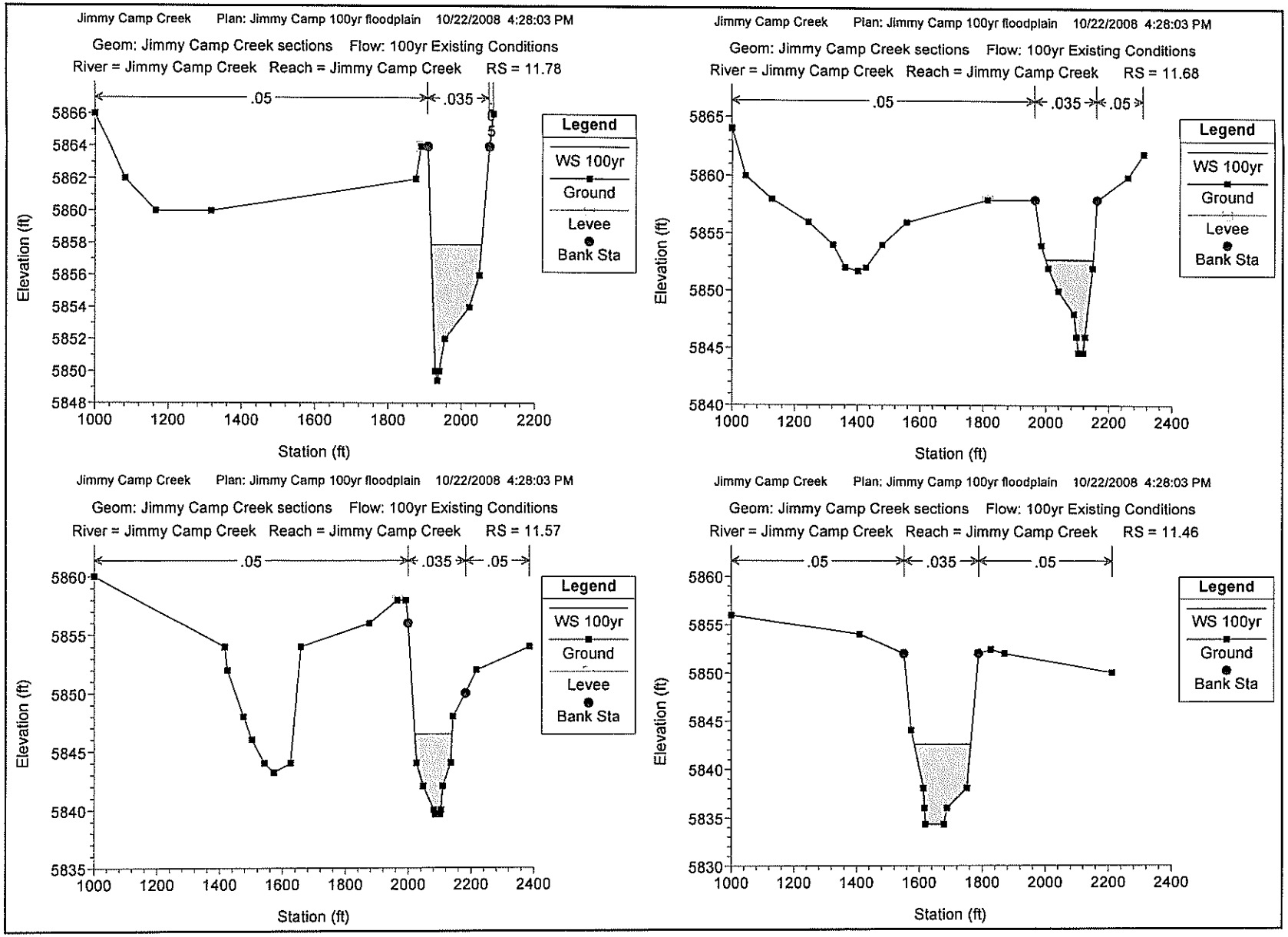
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 11.88
.05
.05
0.35
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.035
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WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 11.68
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 11.57
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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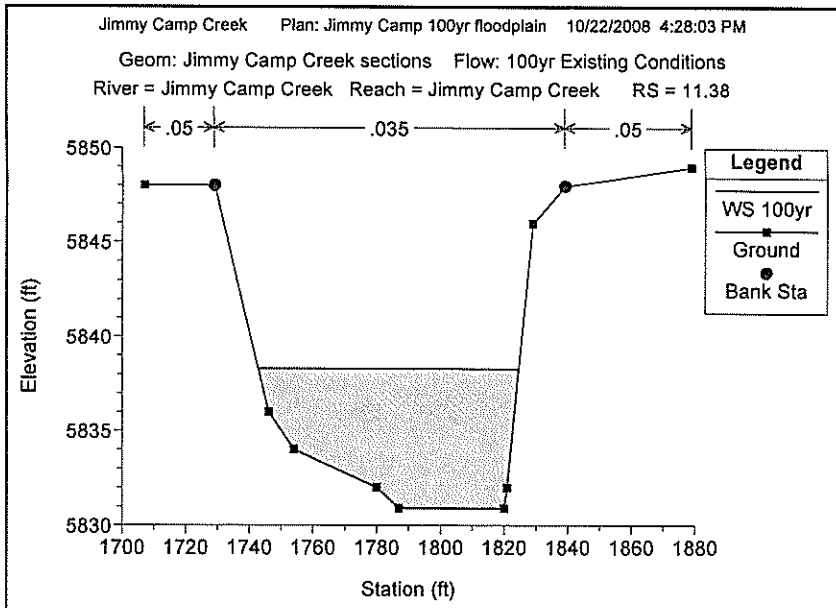
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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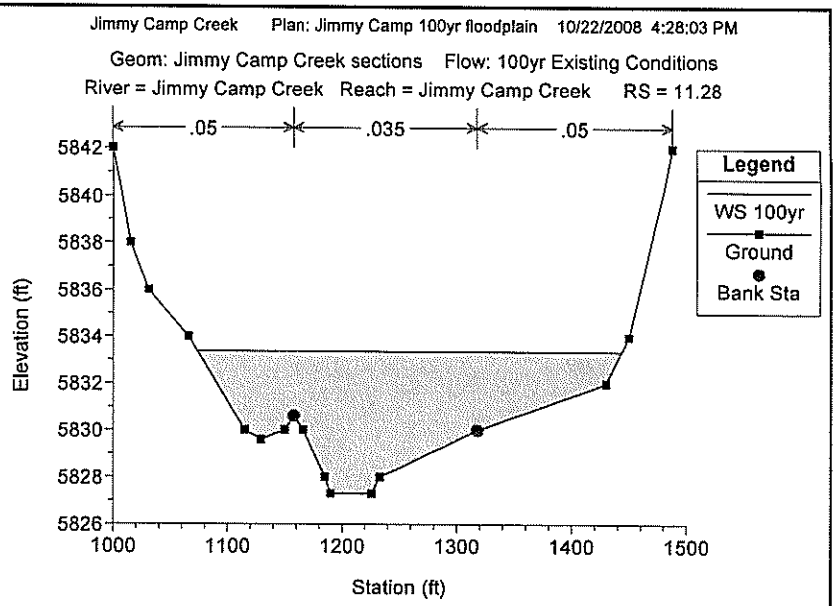
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5850
5845
5840
5835
5830
1700 1720 1740 1760 1780 1800 1820 1840 1860 1880
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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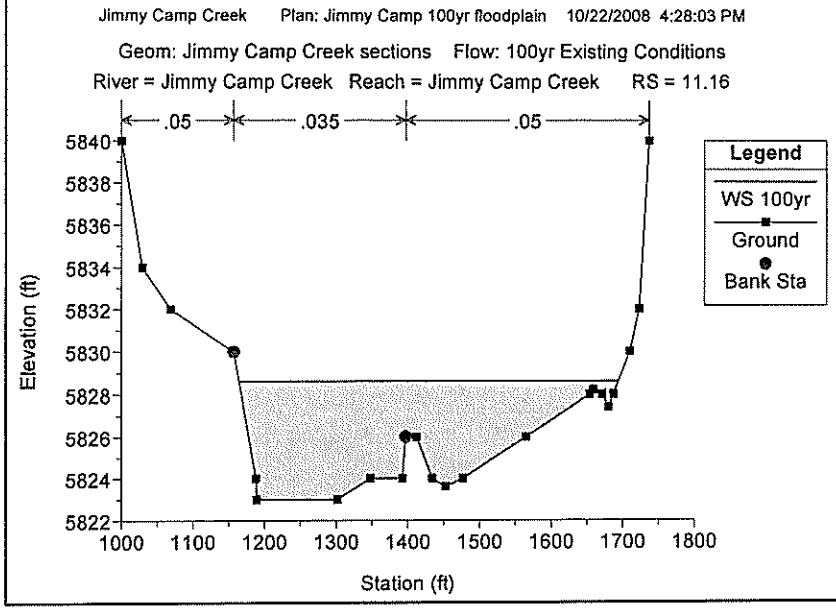
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5842
5840
5838
5836
5834
5832
5830
5828
5826
1000 1100 1200 1300 1400 1500
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 11.16
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5840
5838
5836
5834
5832
5830
5828
5826
5824
5822
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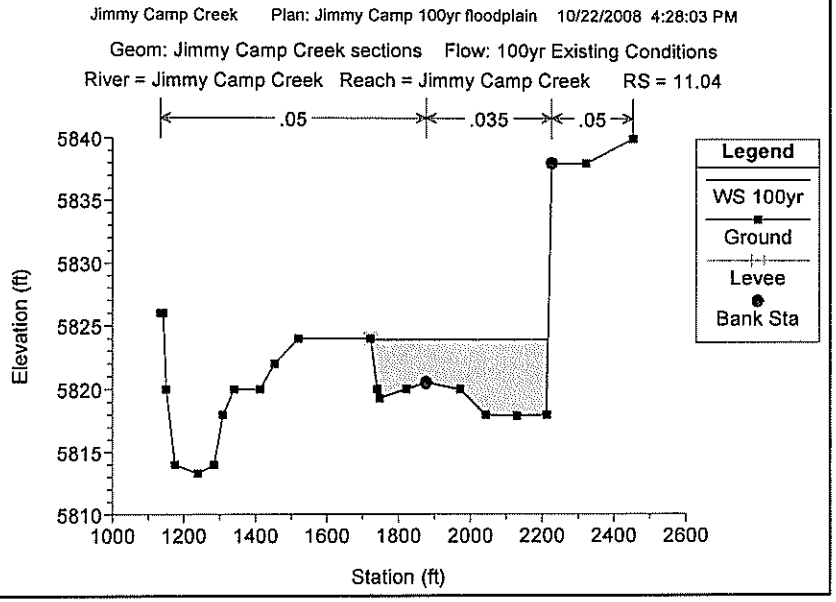
Station (ft)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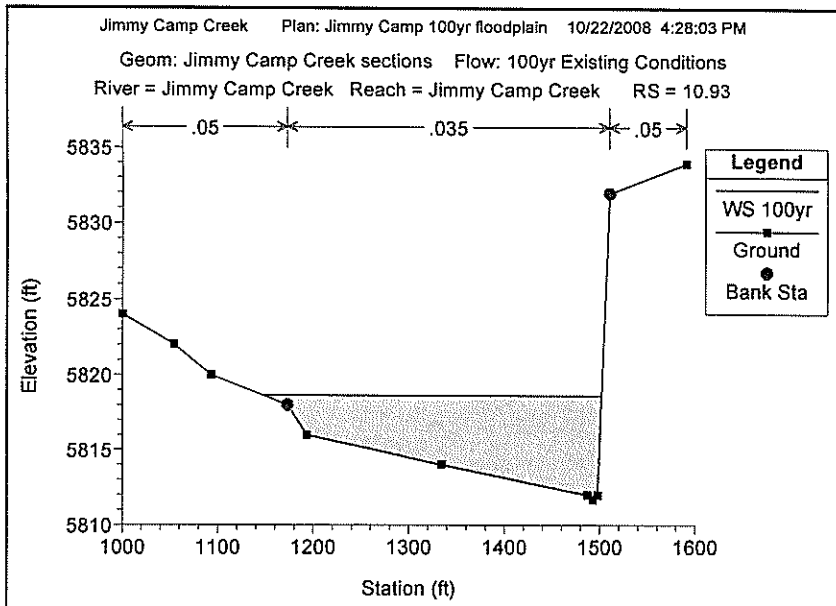
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 11.04
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
5840
5835
5830
5825
5820
5815
5810
1000 1200 1400 1600 1800 2000 2200 2400 2600
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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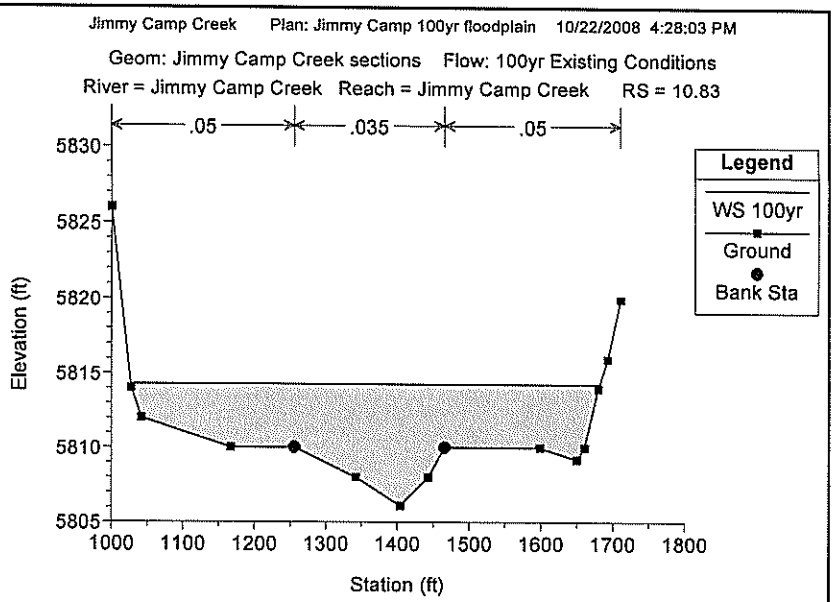
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5835
5830
5825
5820
5815
5810
1000
1100
1200
1300
1400
1500
1600
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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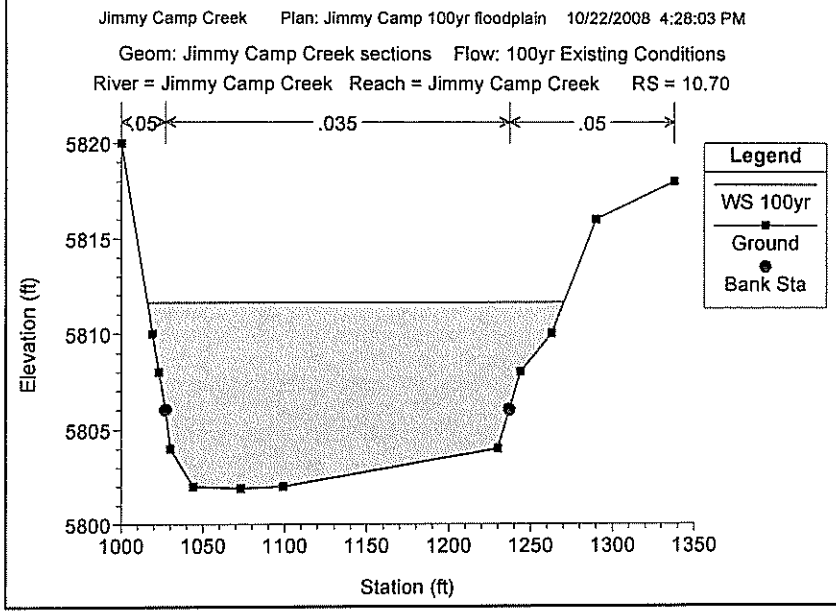
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5830
5825
5820
5815
5810
5805
1000
1100
1200
1300
1400
1500
1600
1700
1800
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
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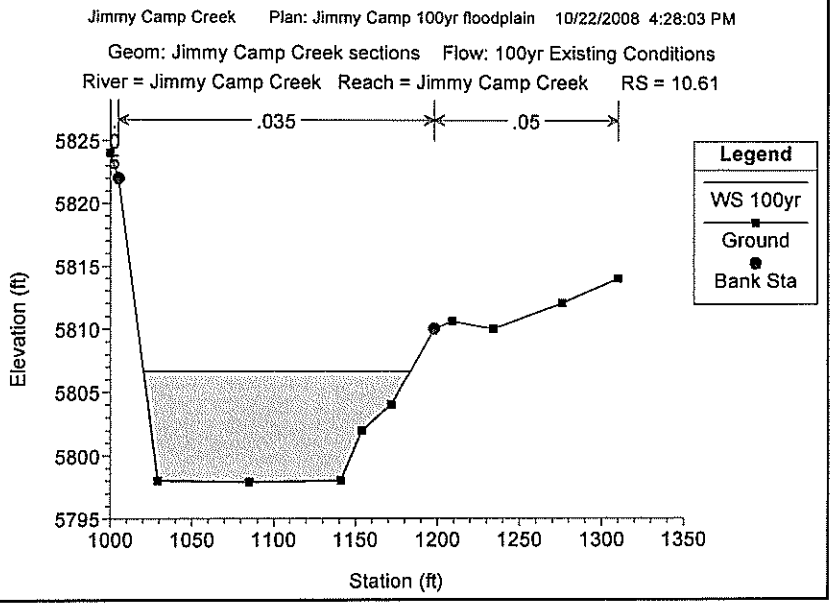
5815
5810
5805
5800
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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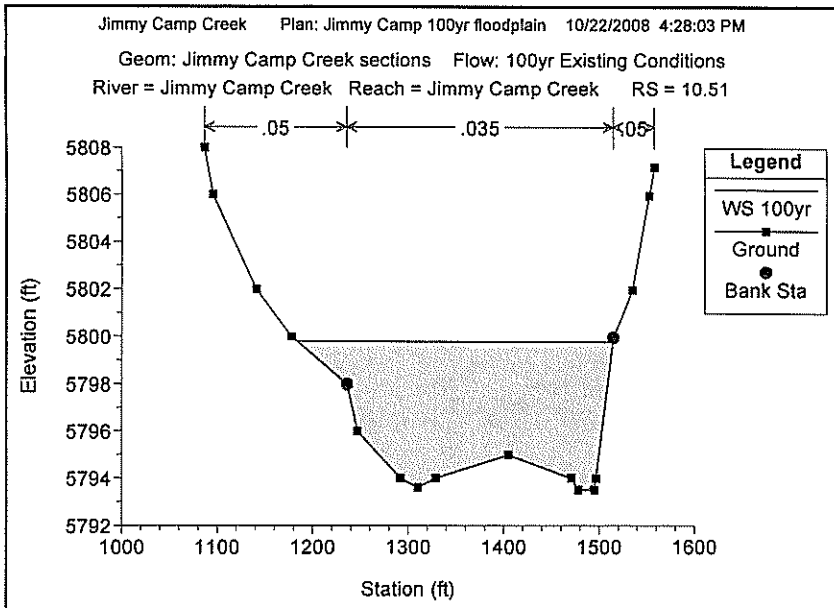
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.61
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5825
5820
5815
5810
5805
5800
5795
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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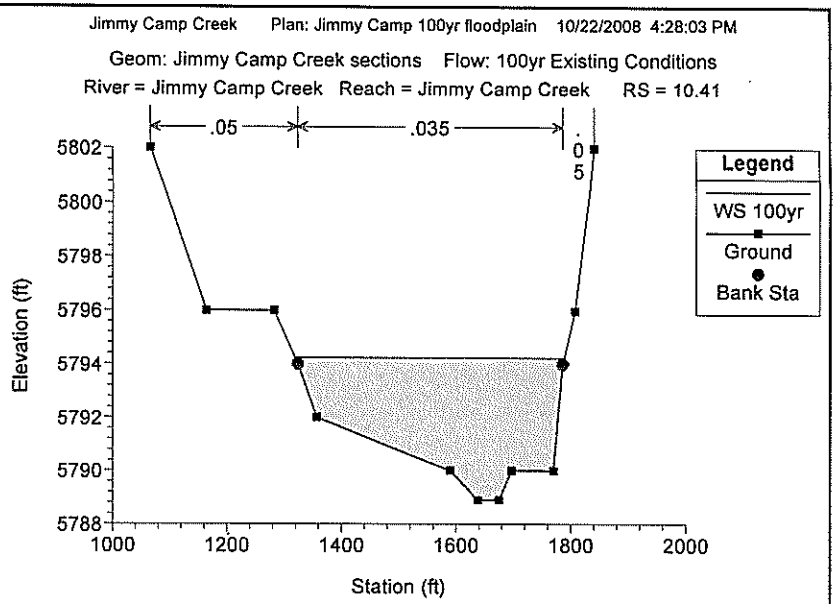
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.51
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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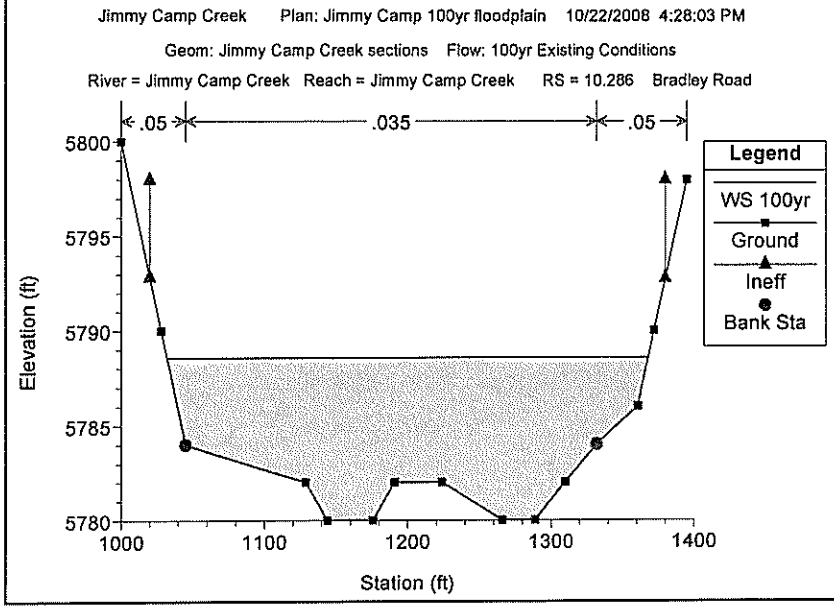
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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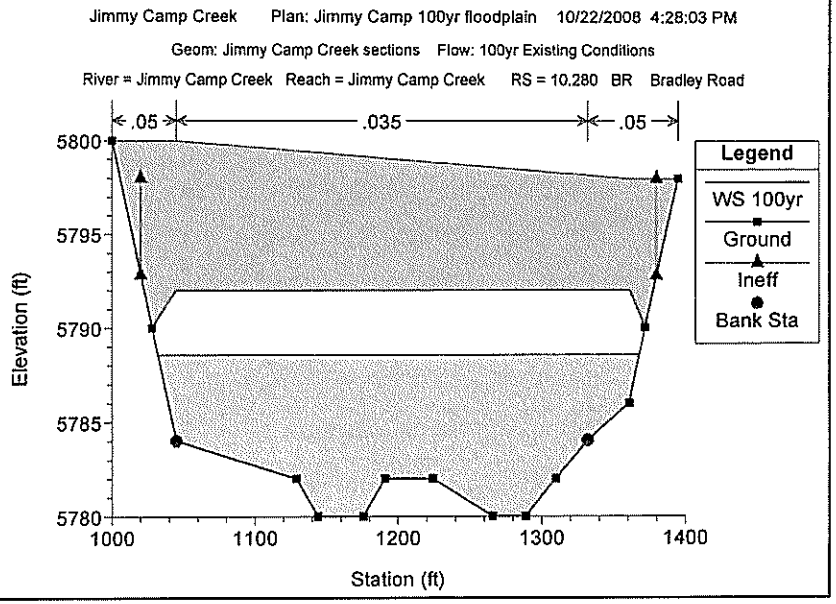
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.286 Bradley Road
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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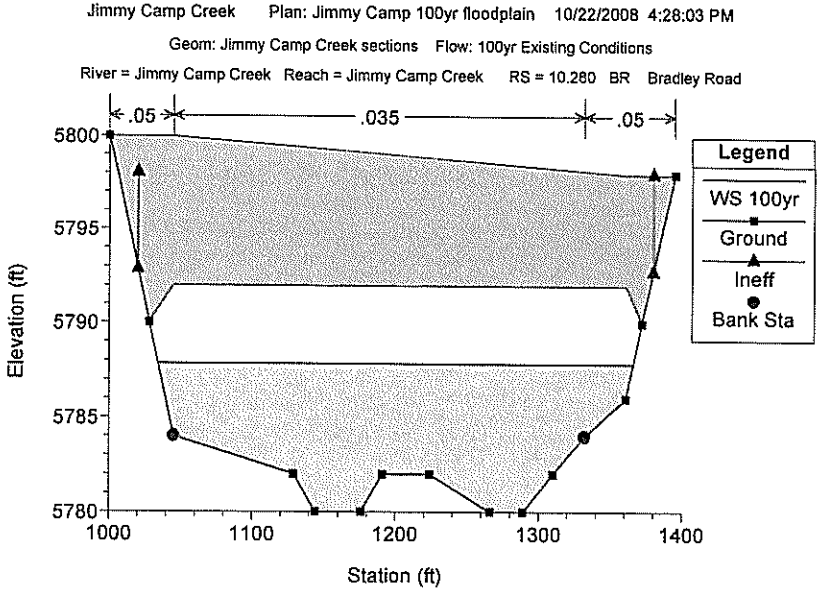
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.280 BR Bradley Road
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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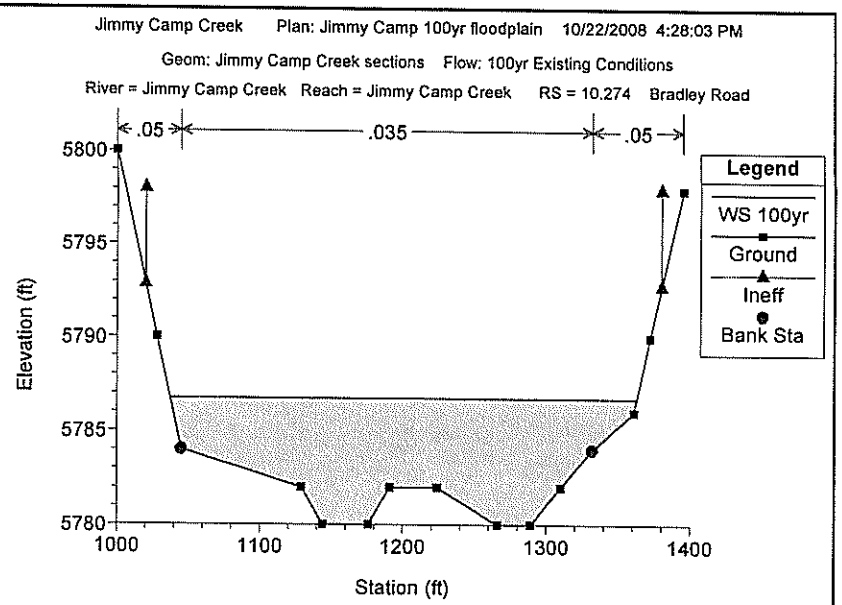
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.280 BR Bradley Road
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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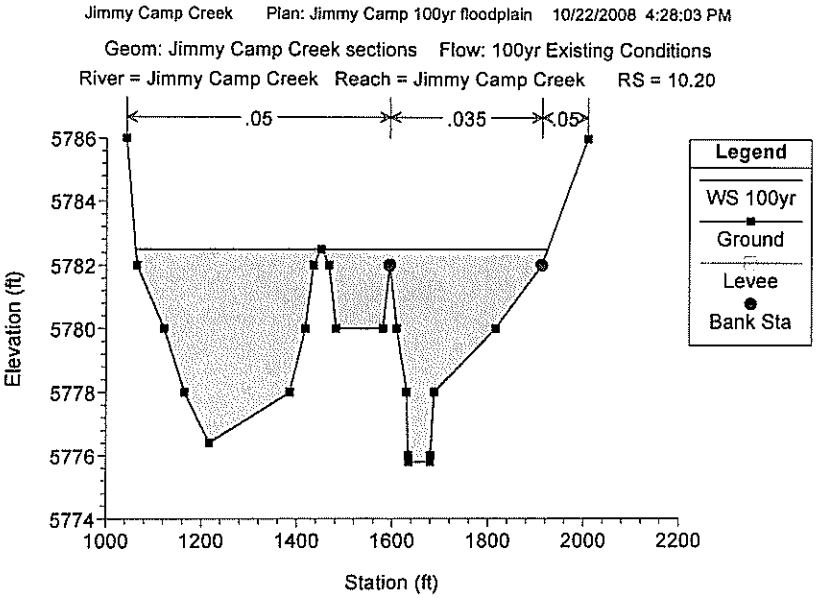
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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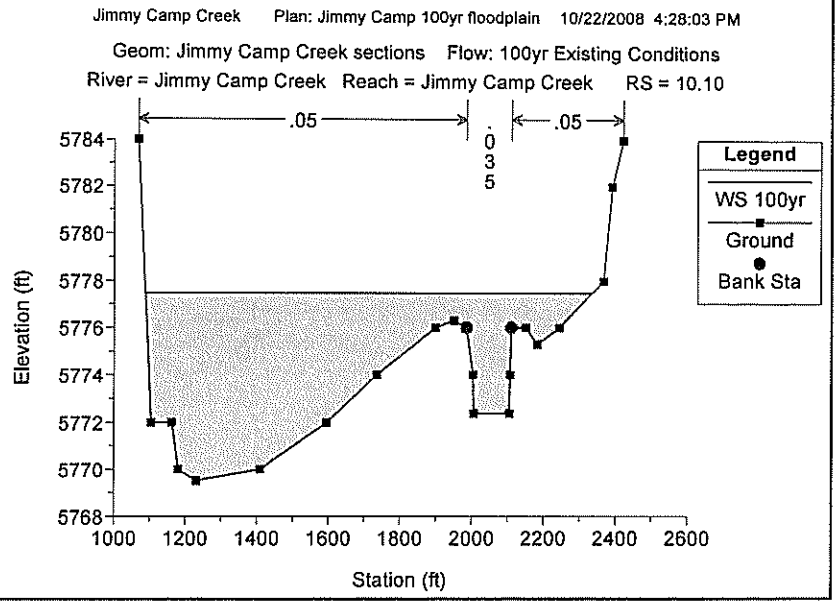
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 10.20
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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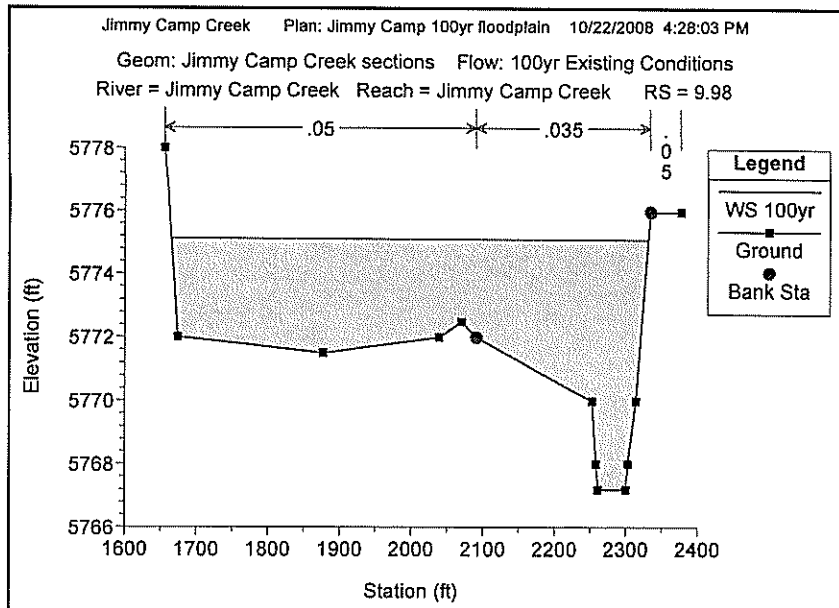
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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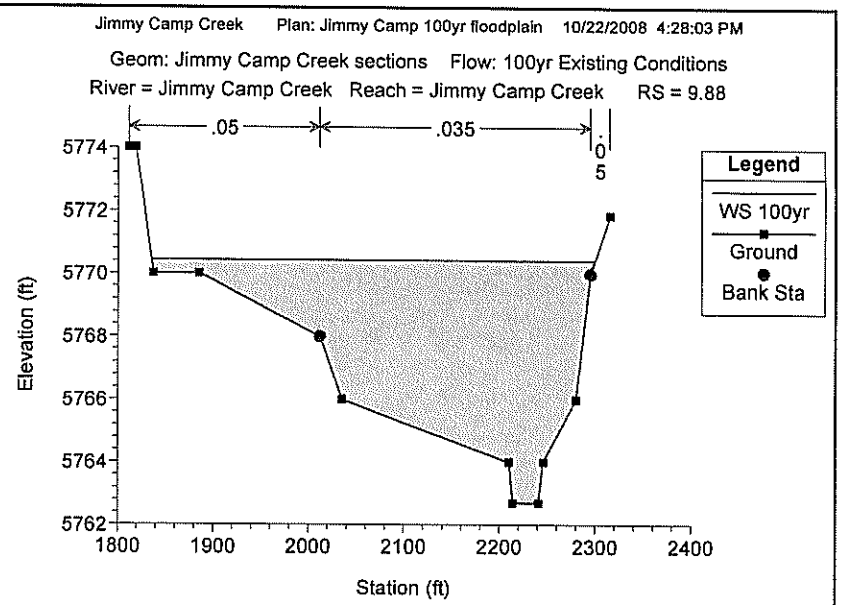
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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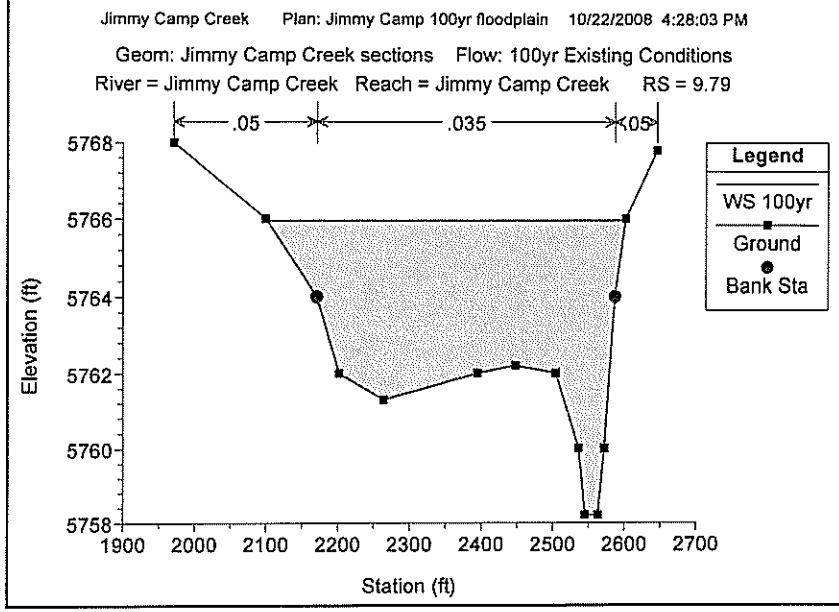
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.88
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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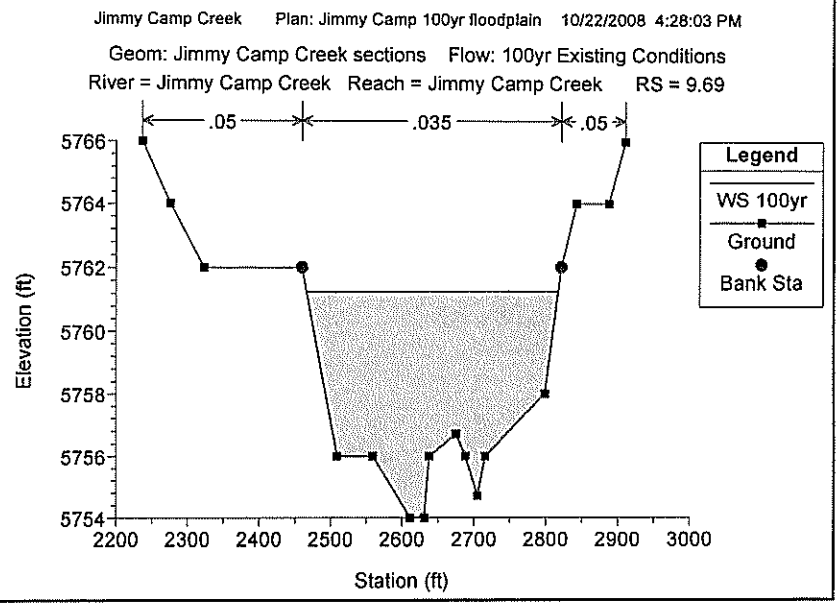
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.79
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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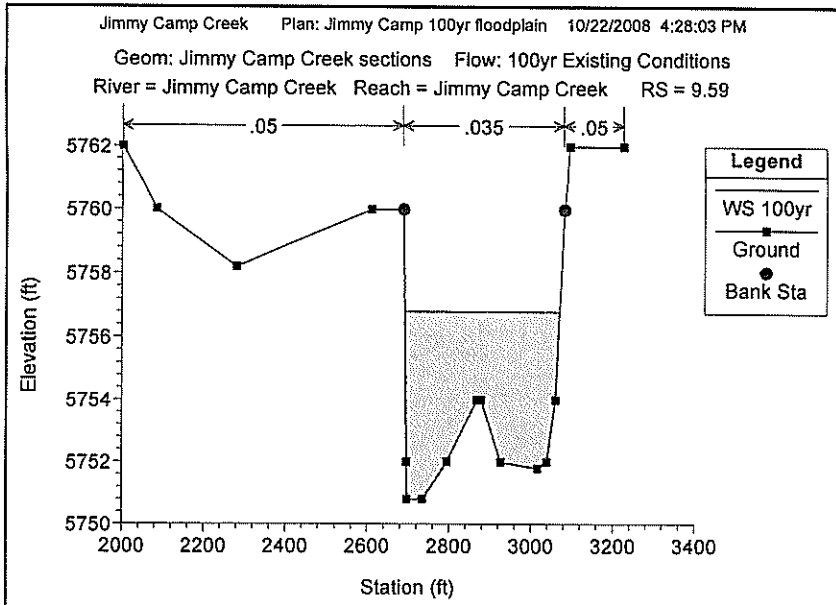
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.69
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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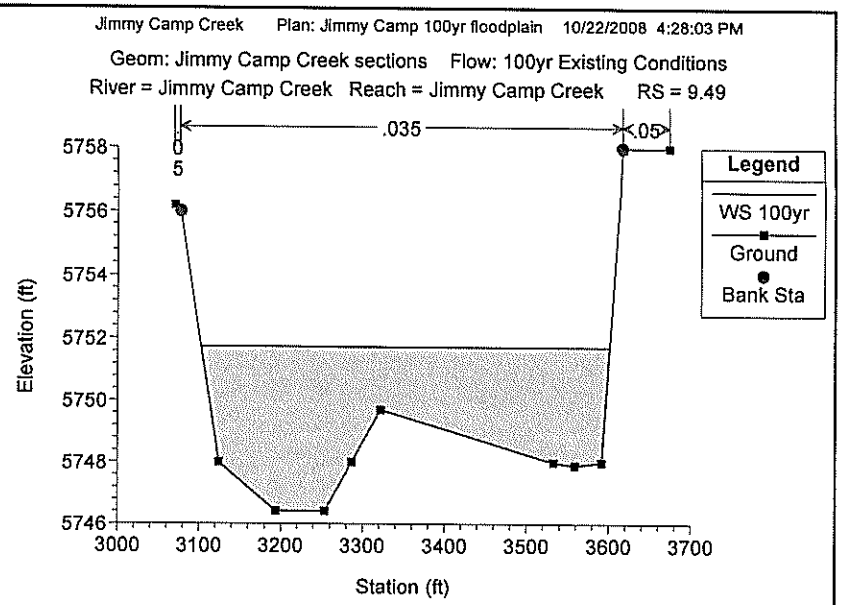
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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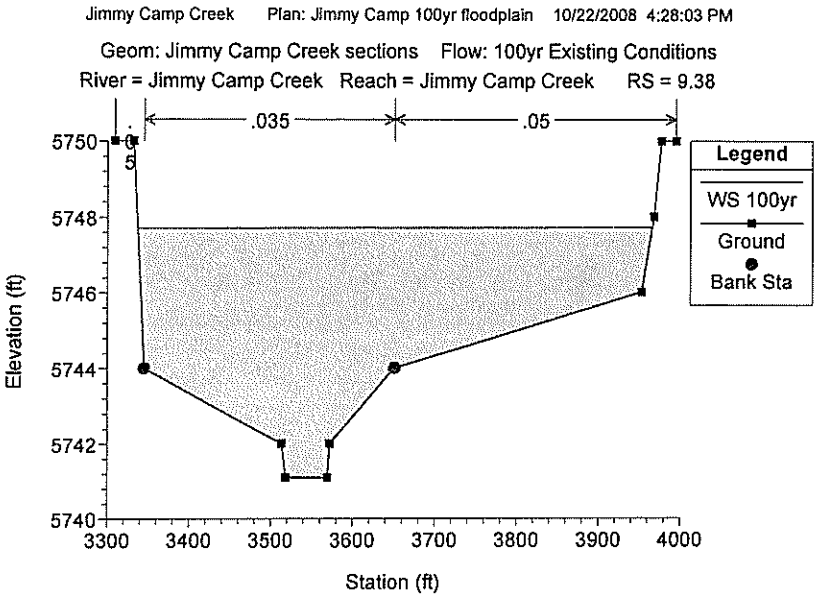
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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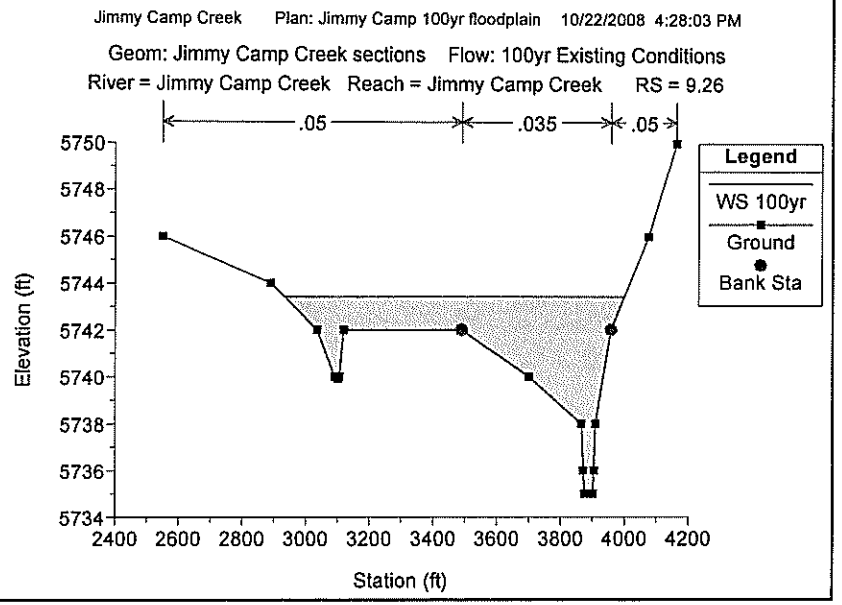
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.38
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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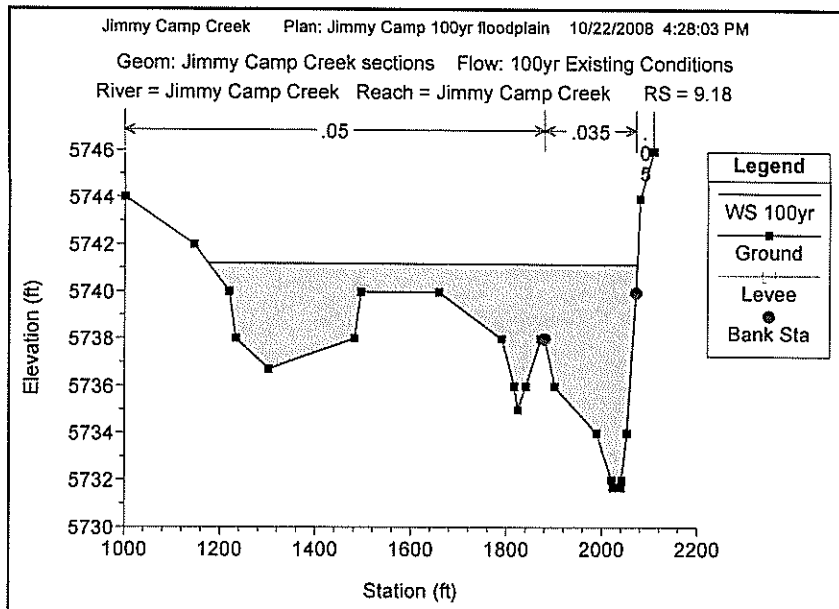
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.26
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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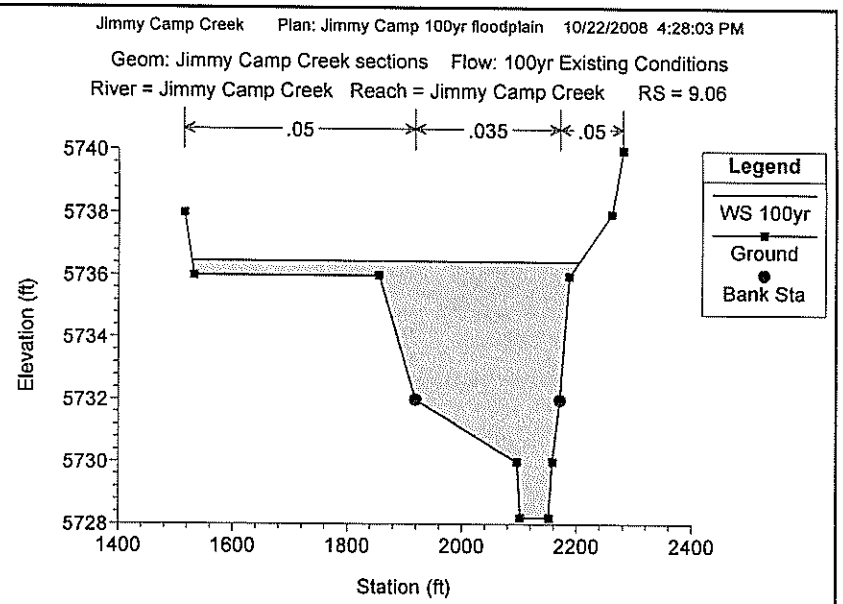
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 9.18
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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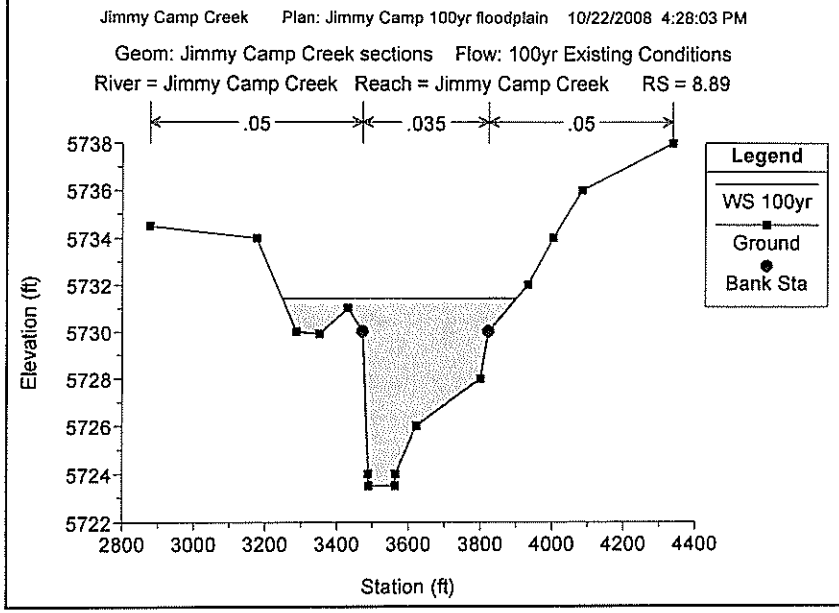
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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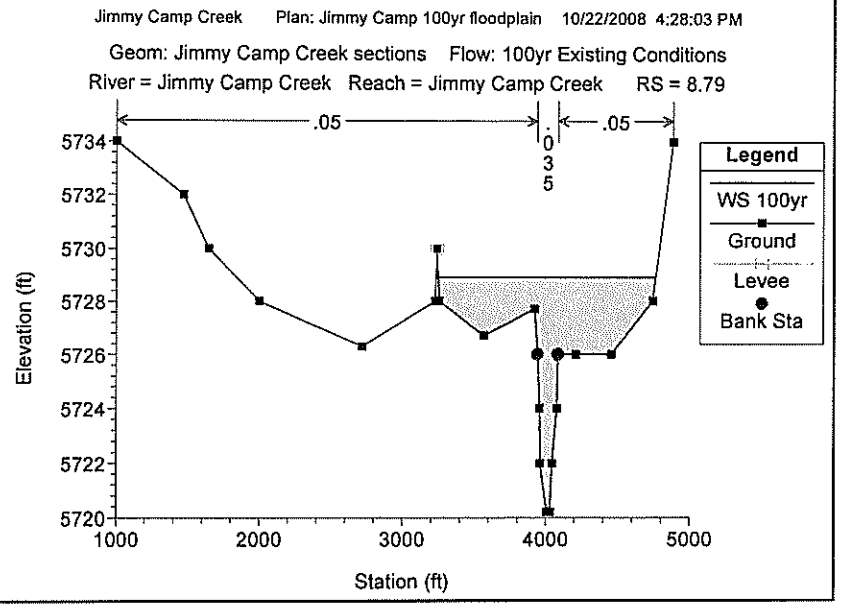
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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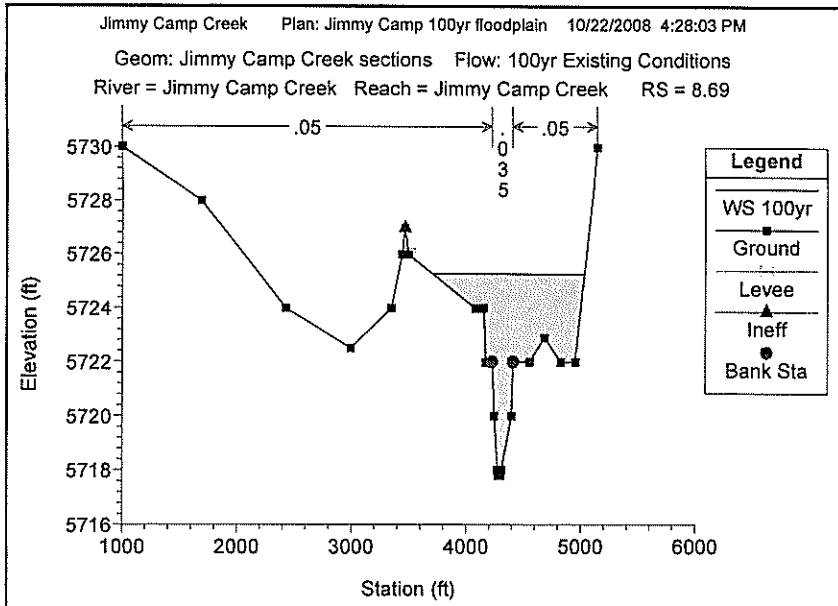
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.79
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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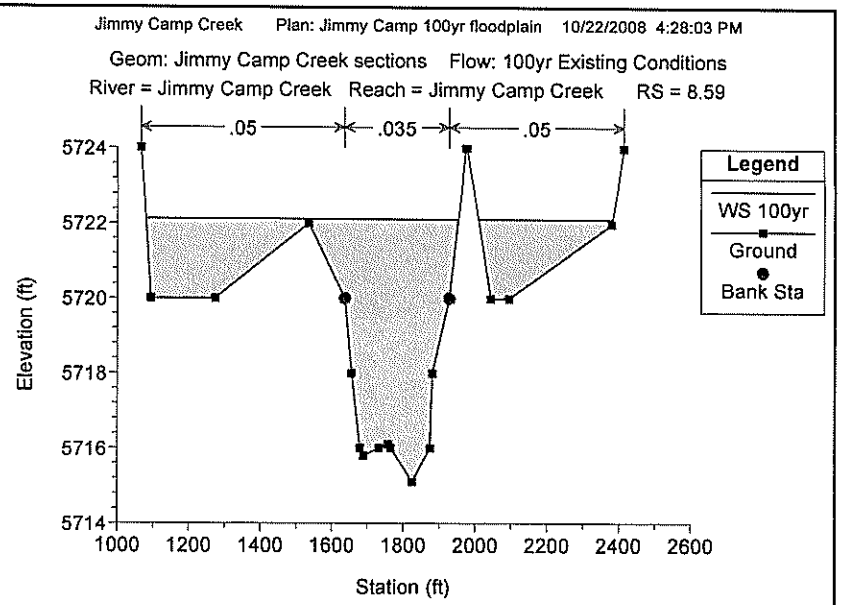
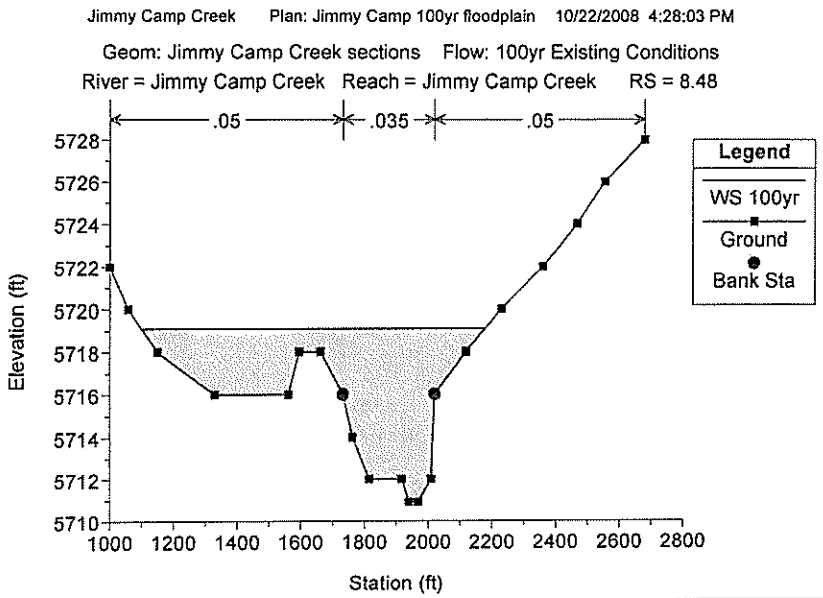
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.69
.05
.05
.035
Legend
WS 100yr
Ground
Levee
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.59
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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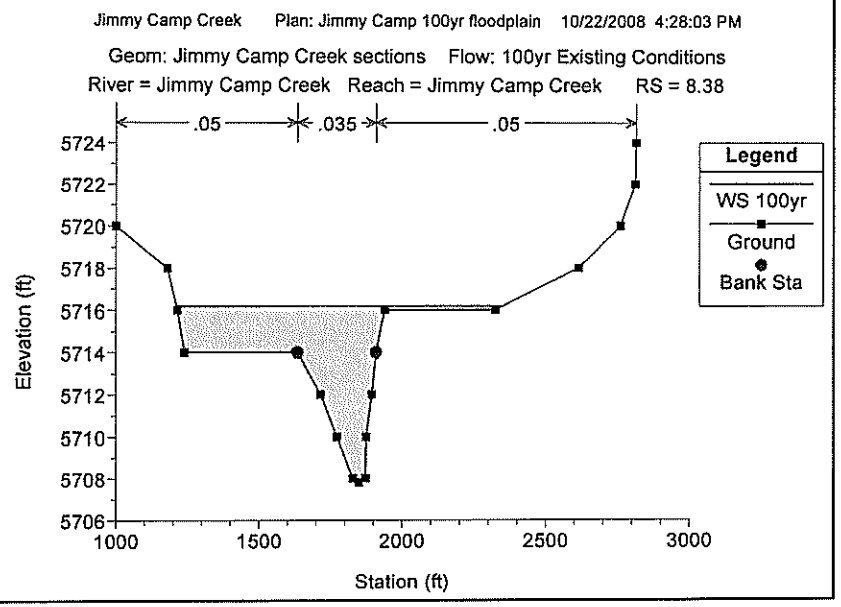
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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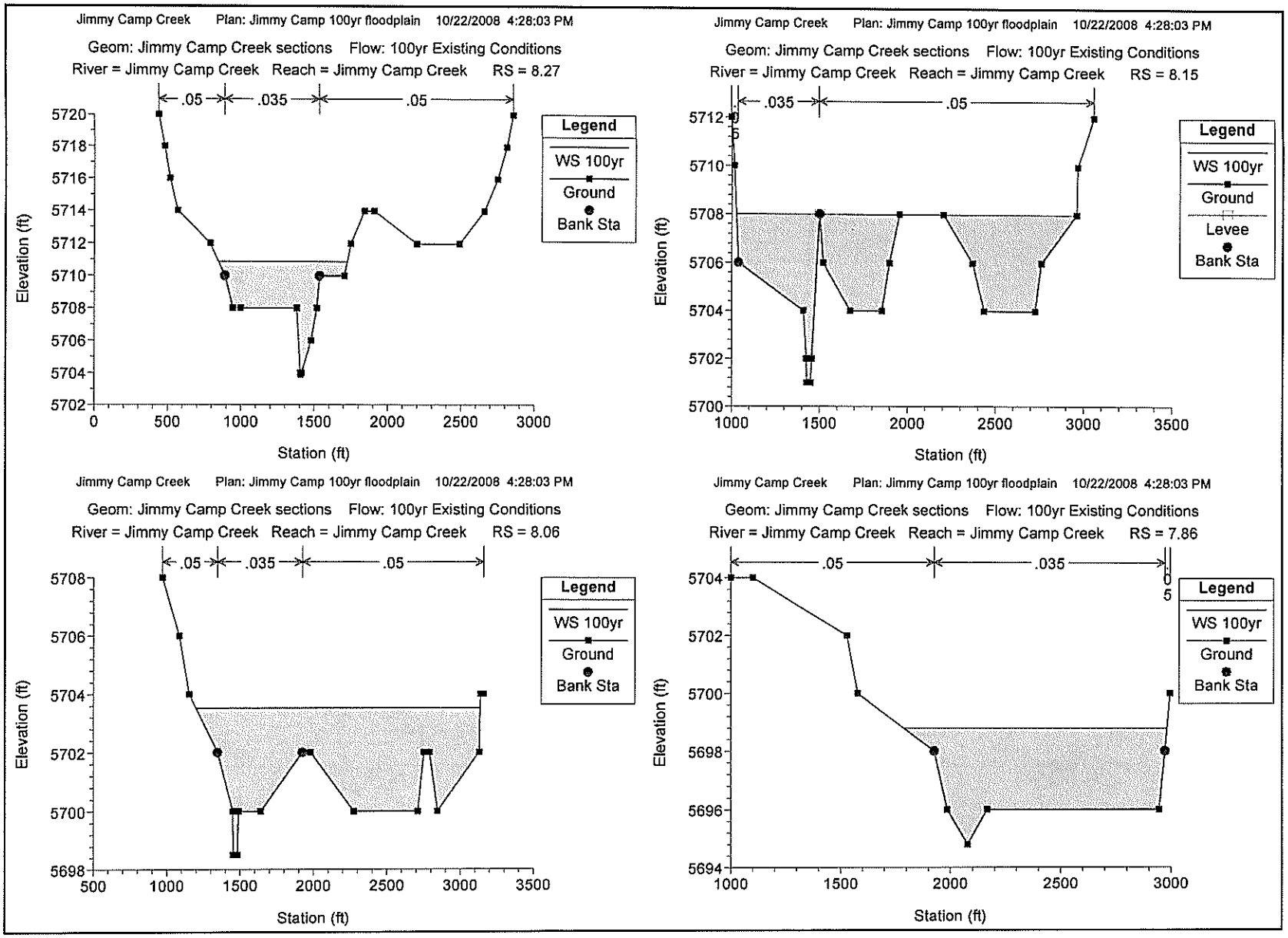
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.27
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.15
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 8.06
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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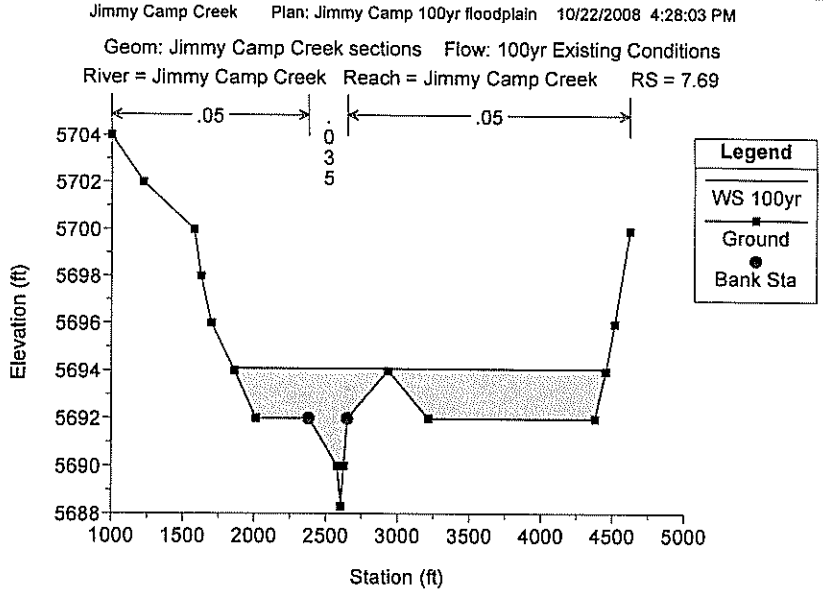
.05
.035
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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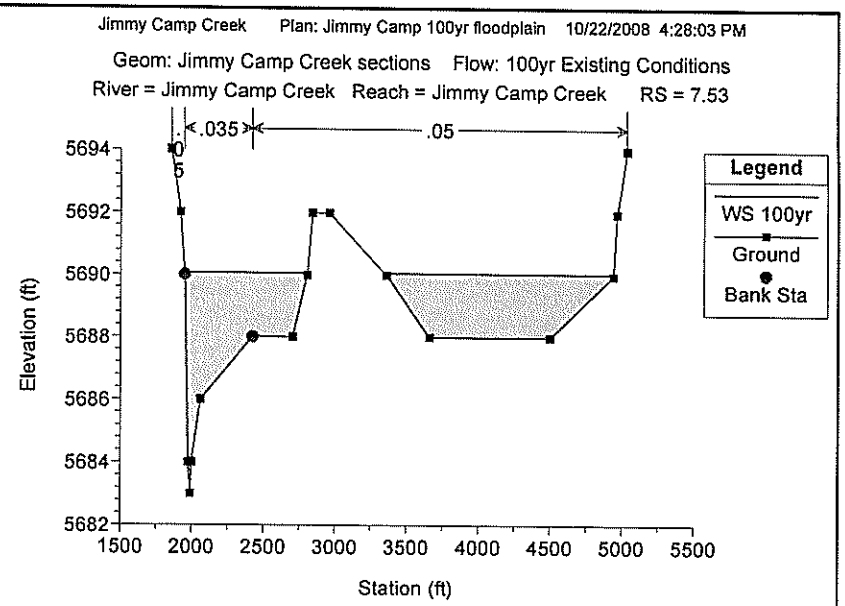
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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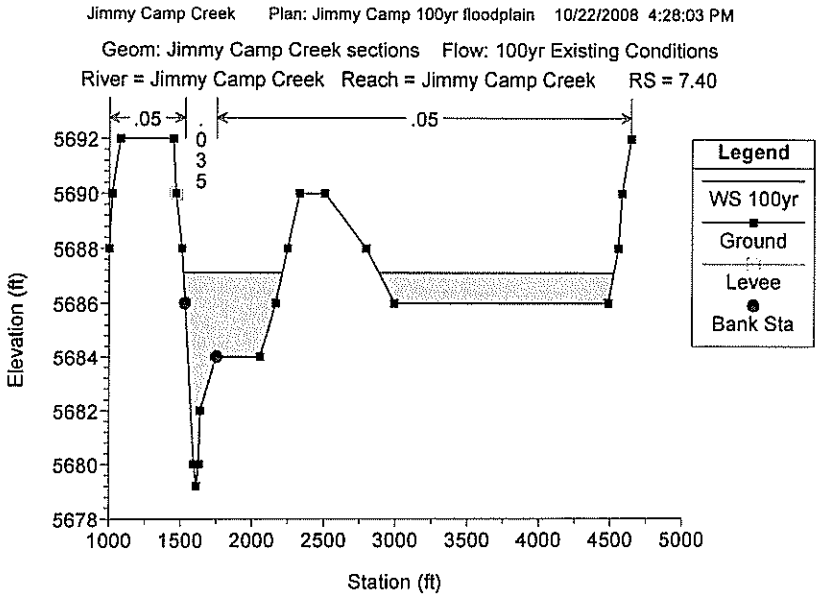
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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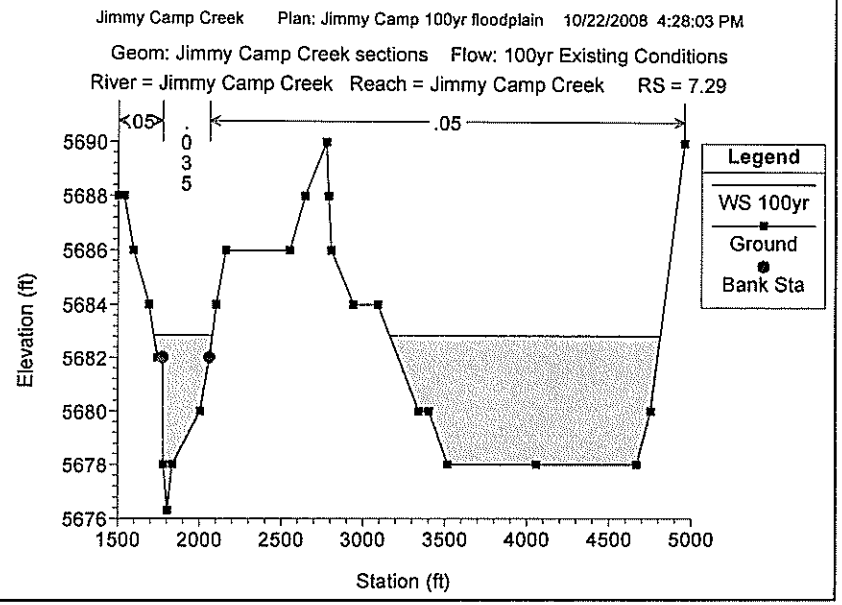
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 7.40
.05
.035
.05
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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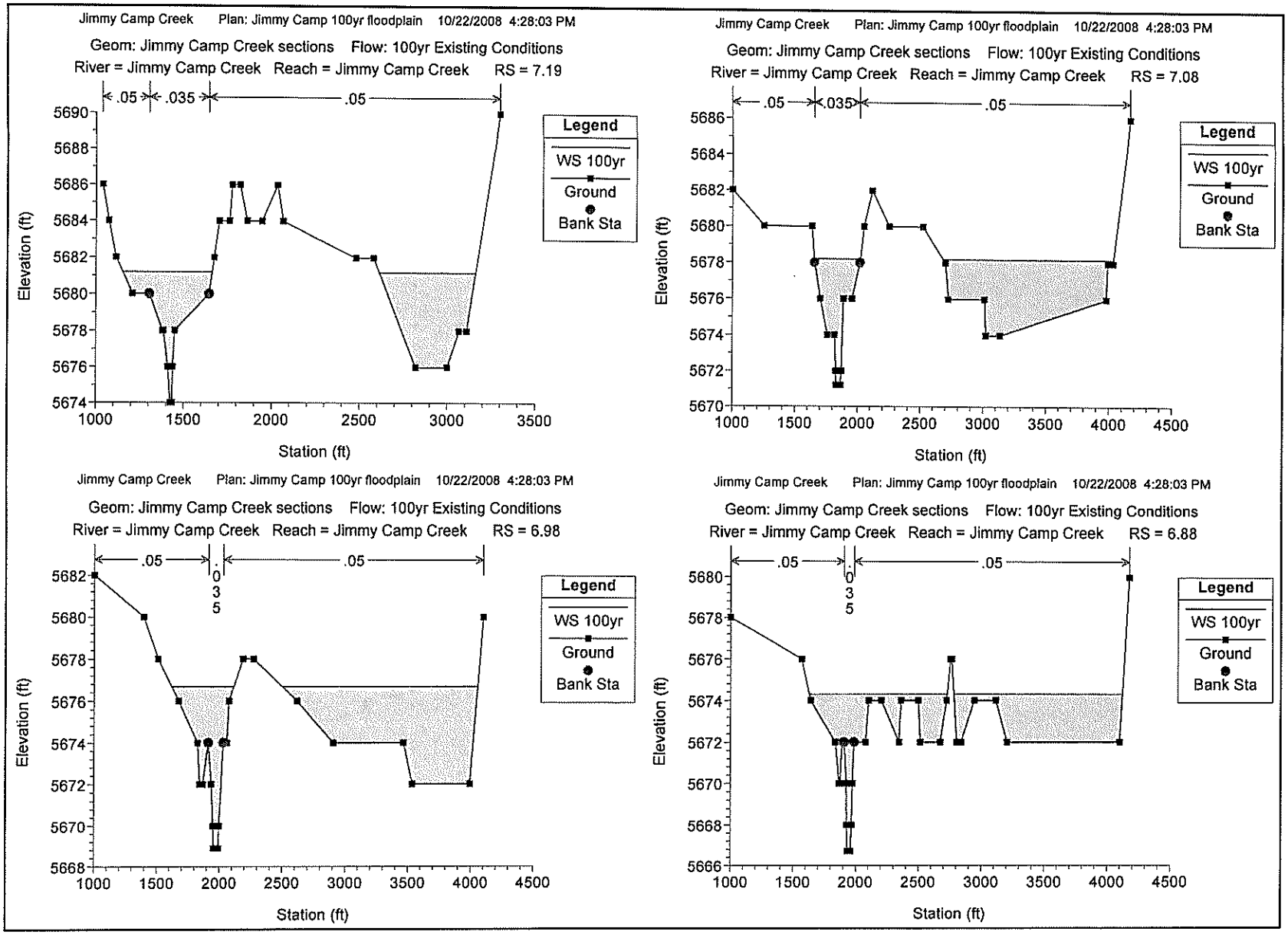
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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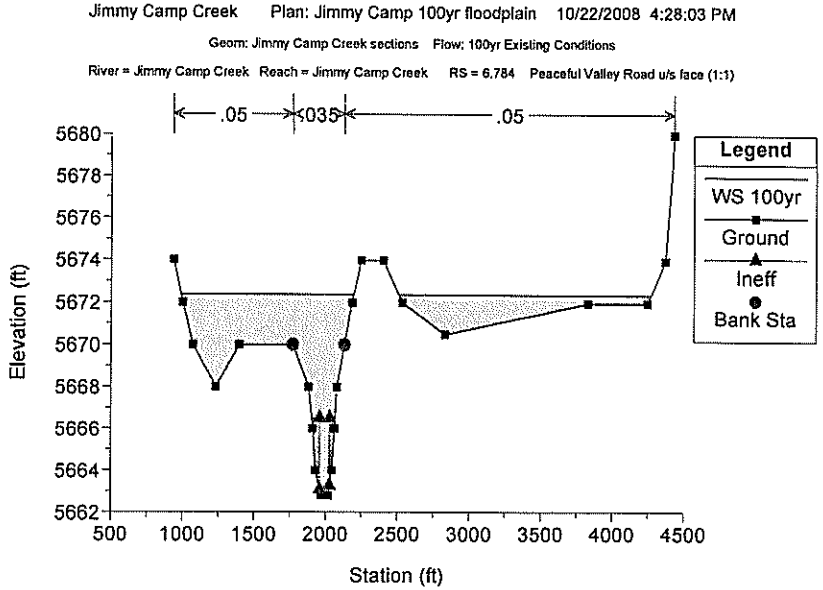
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 7.08
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 6.98
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 6.88
.05
.035
.05
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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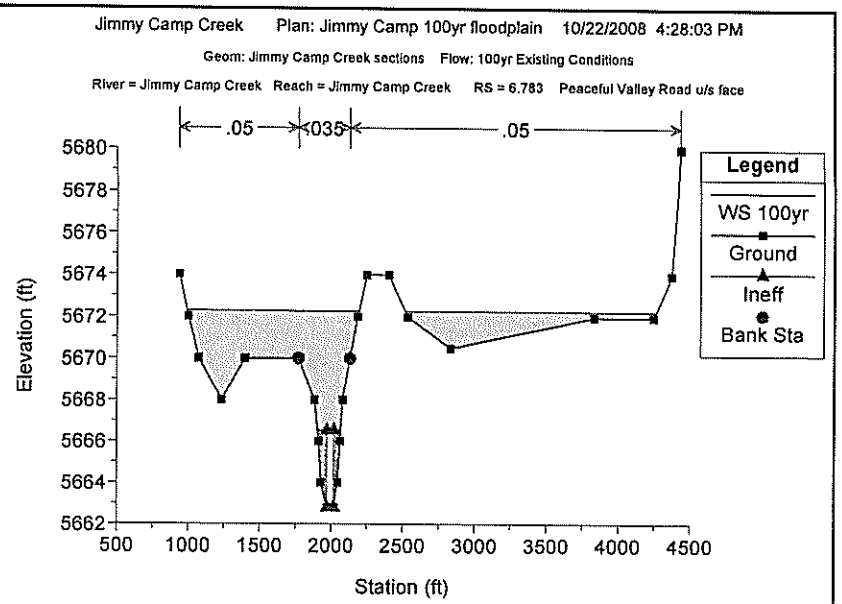
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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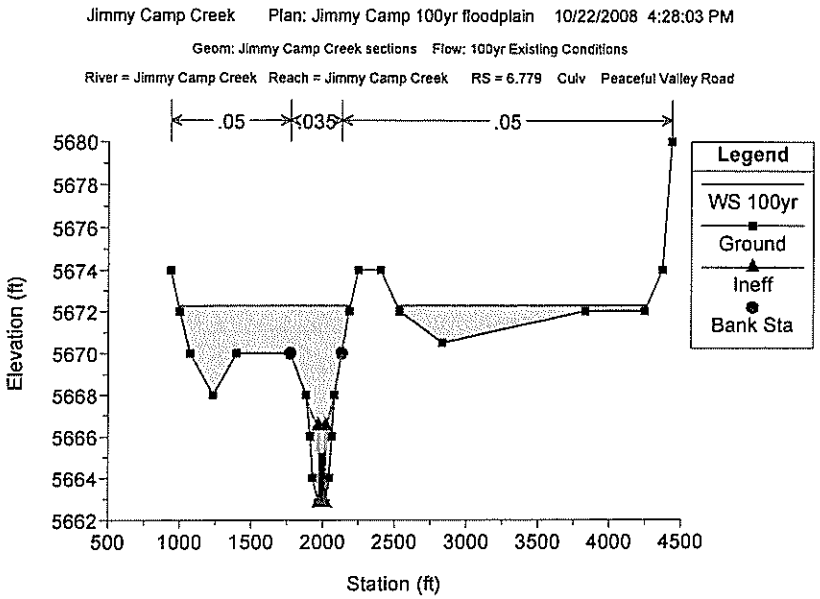
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 6.783 Peaceful Valley Road u/s face
.05
.035
.05
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.05
.035
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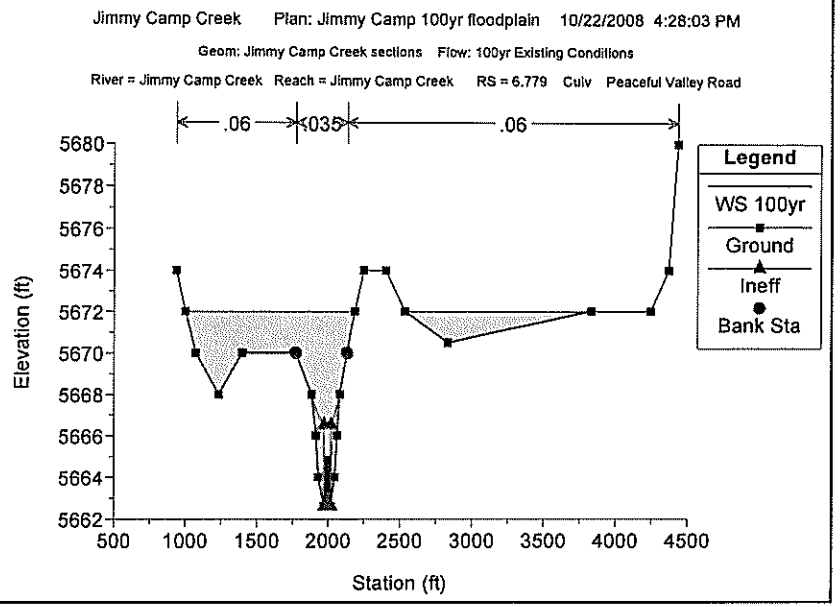
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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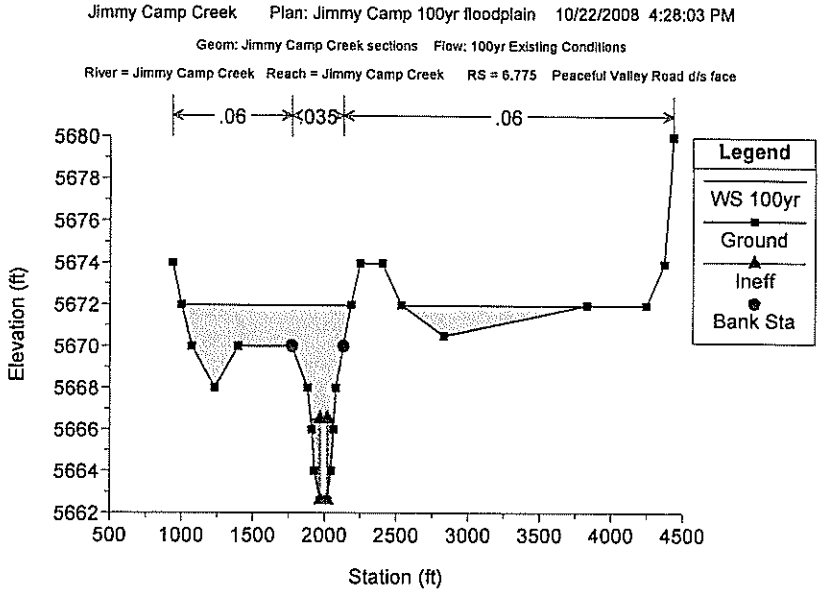
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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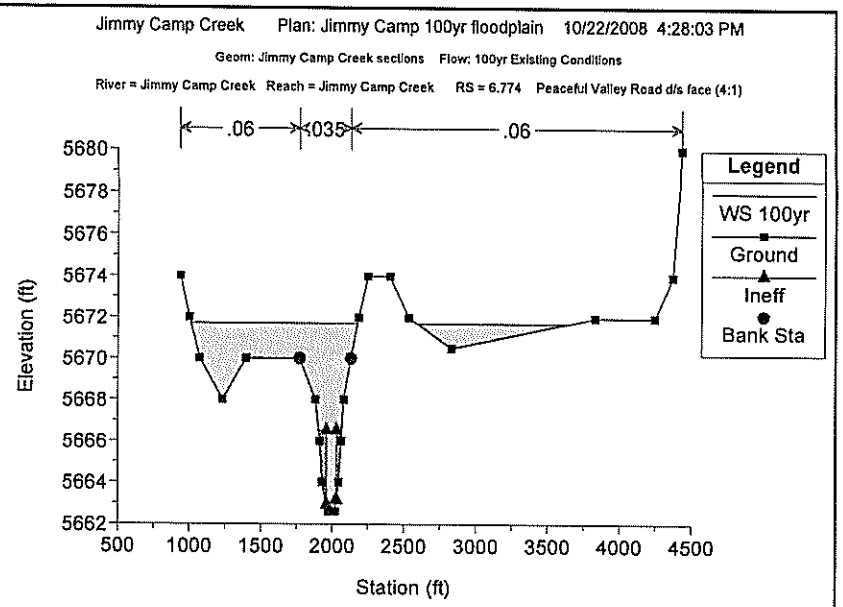
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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.035
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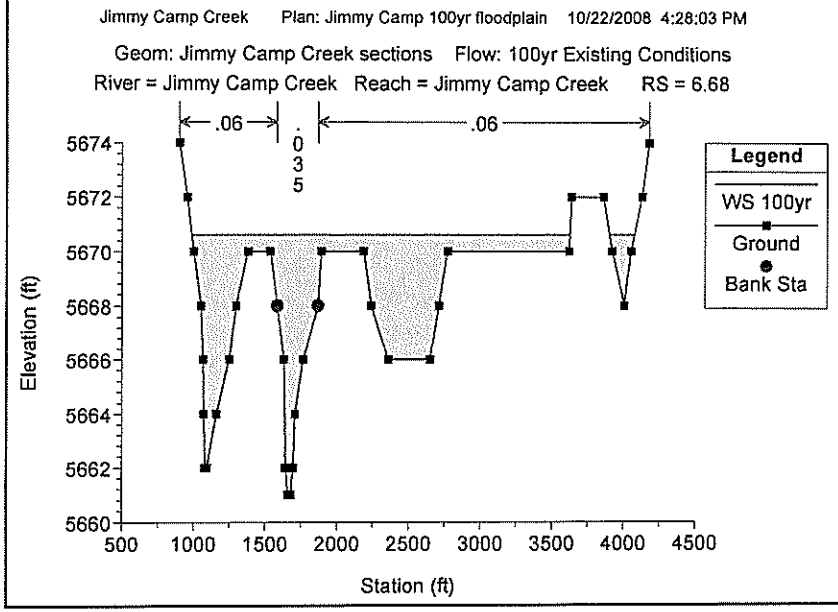
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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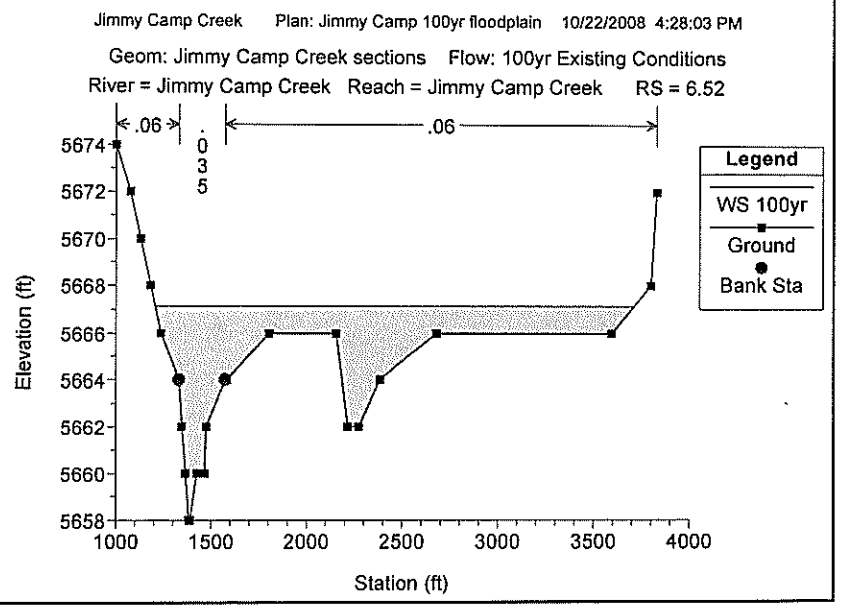
Ground
Bank Sta
Elevation (ft)
Station (ft)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.06
.035
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Legend
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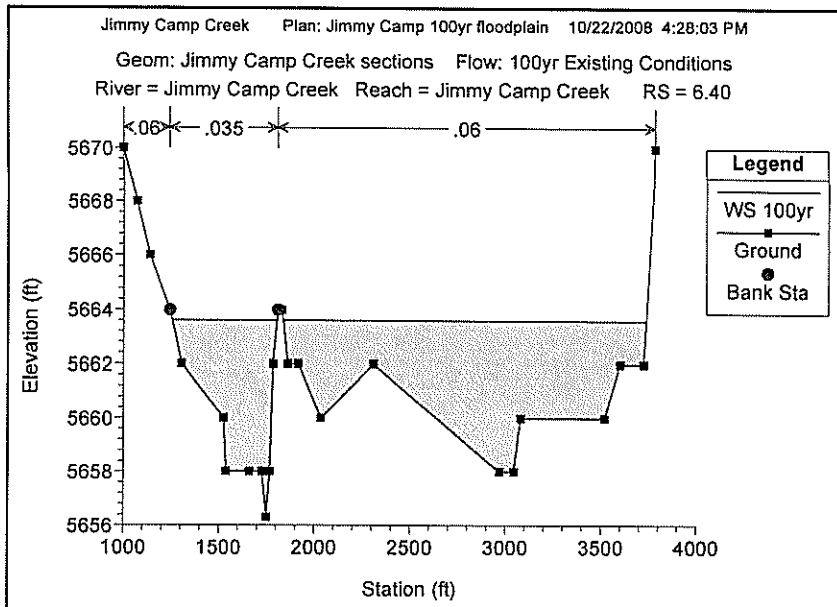
Ground
Bank Sta
Elevation (ft)
Station (ft)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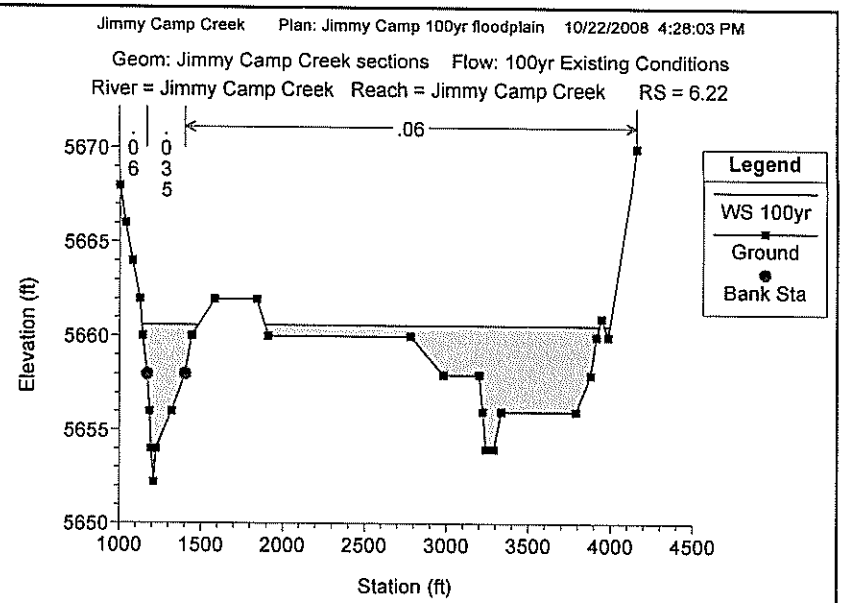
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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.035
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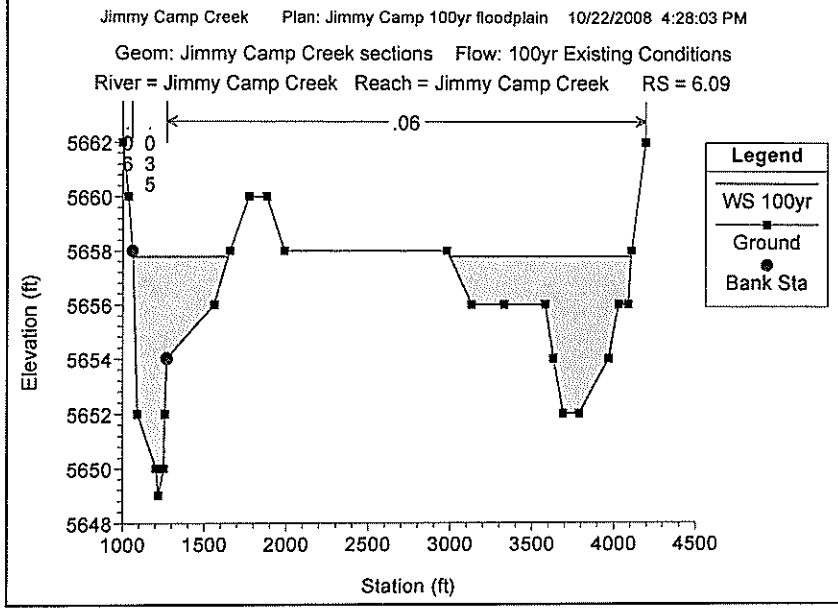
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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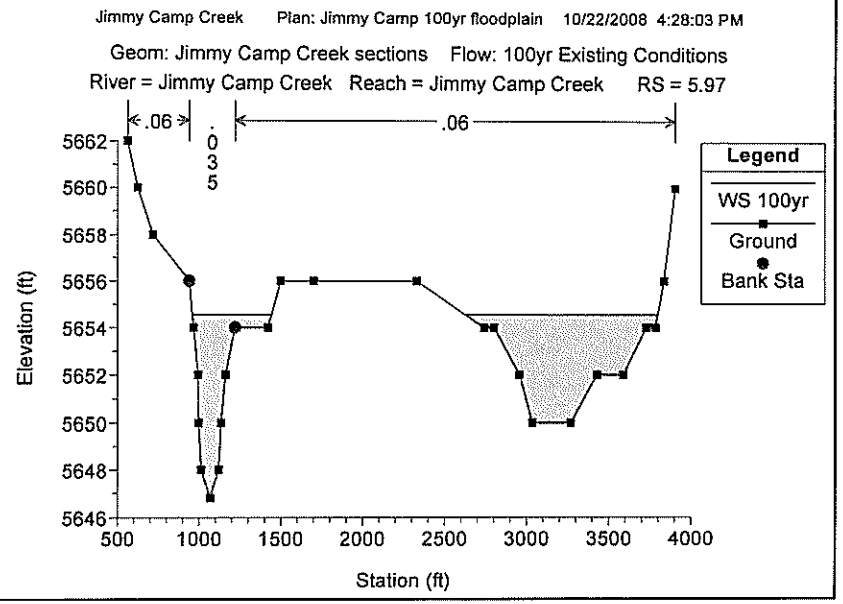
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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.06
.035
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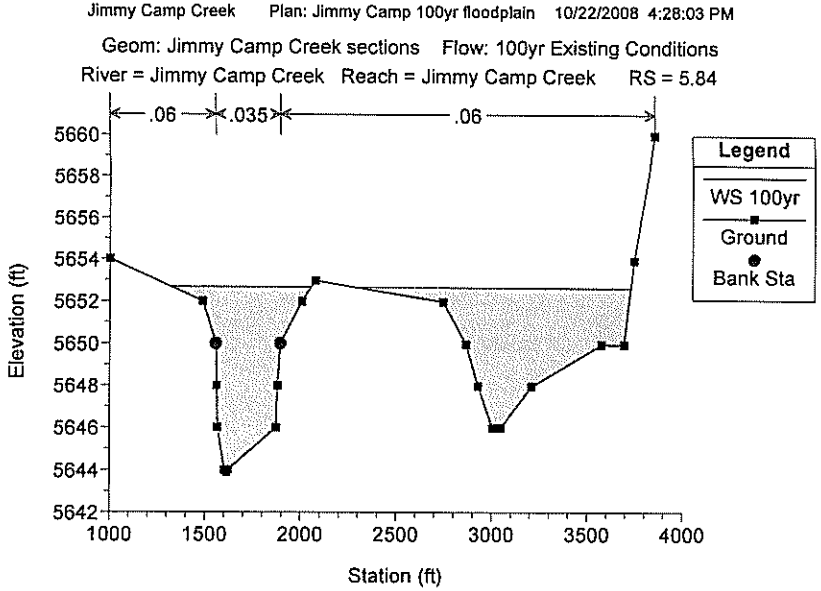
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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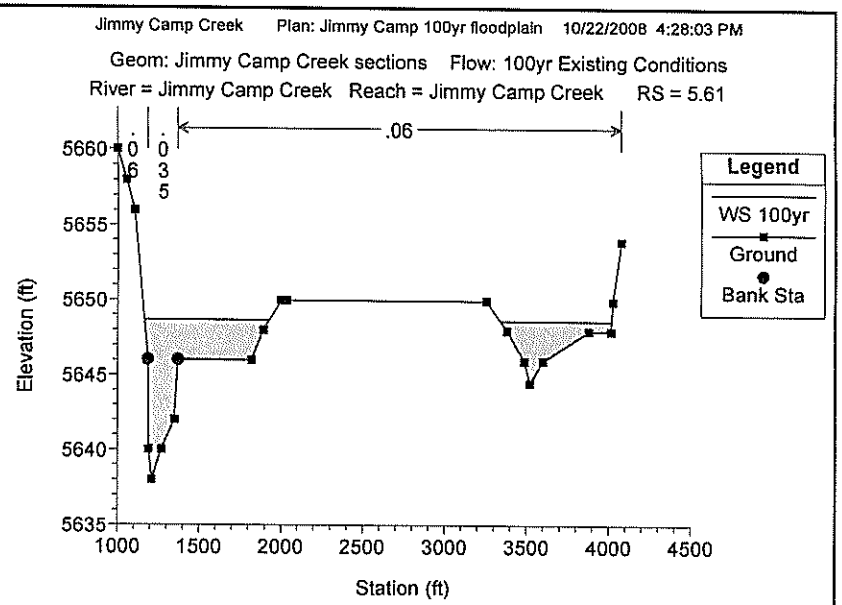
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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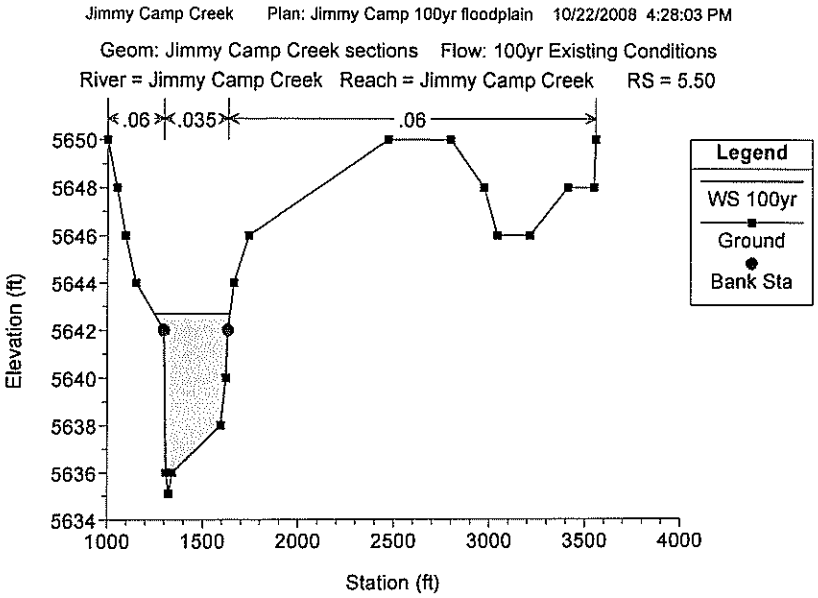
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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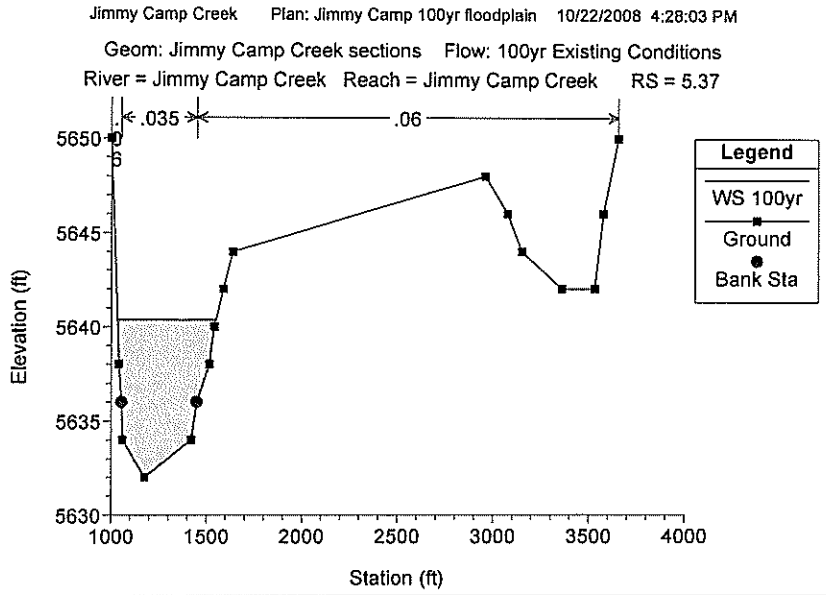
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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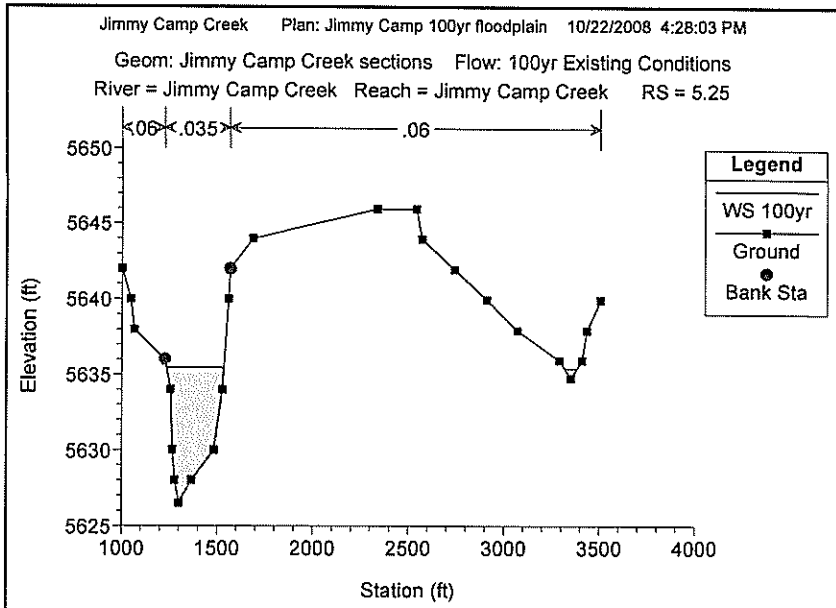
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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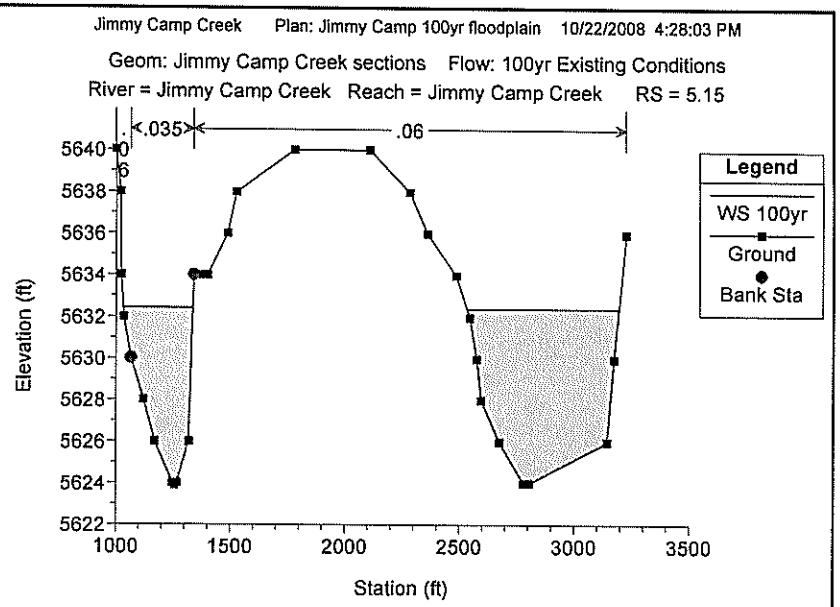
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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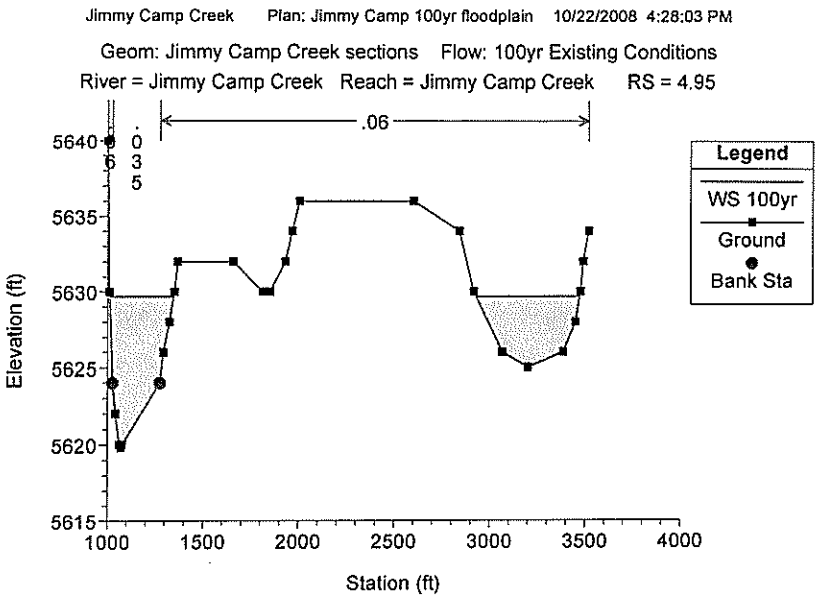
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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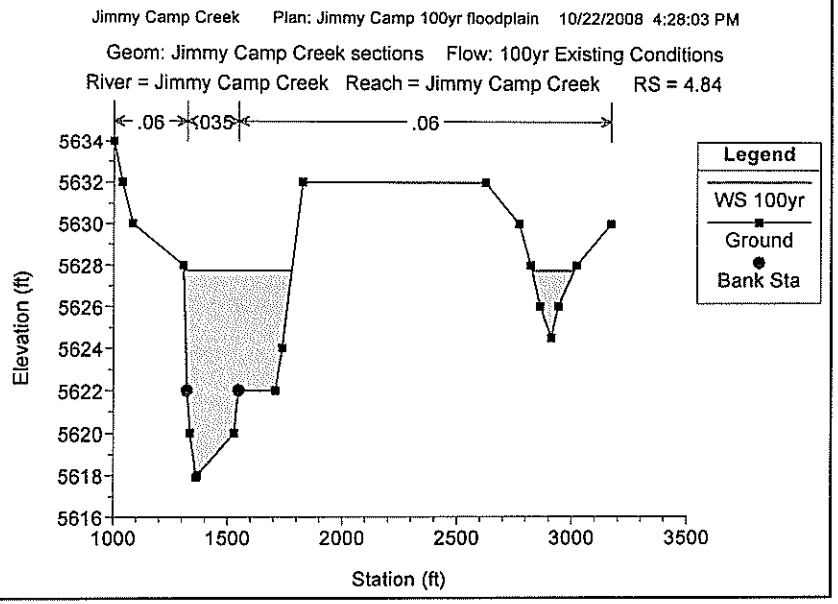
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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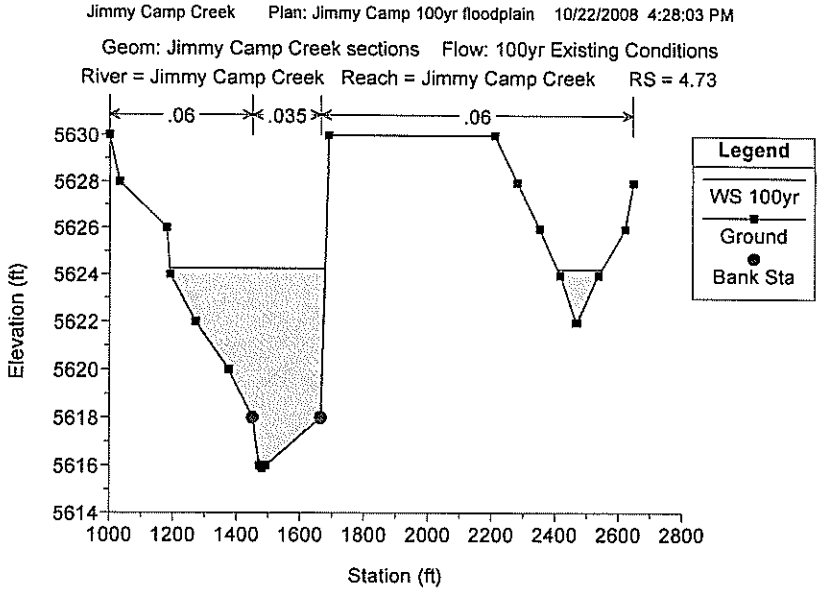
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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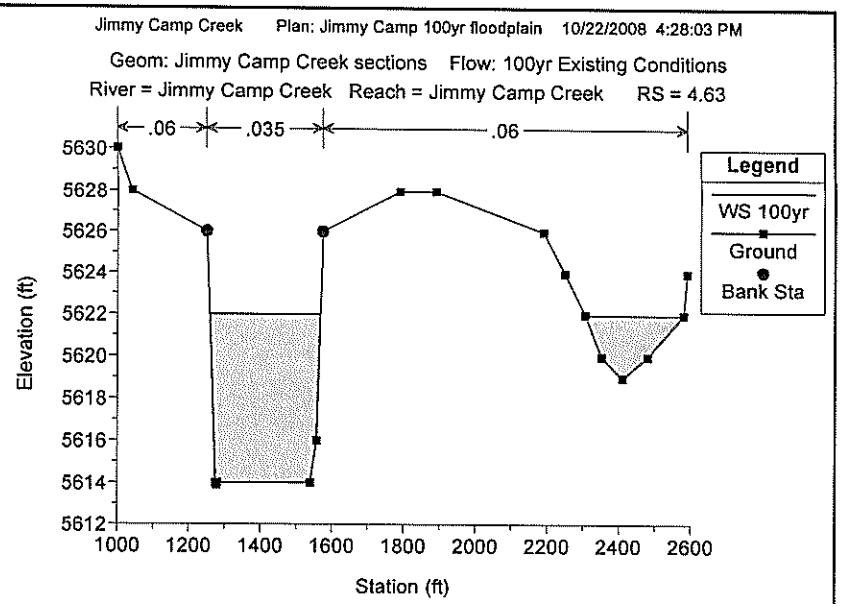
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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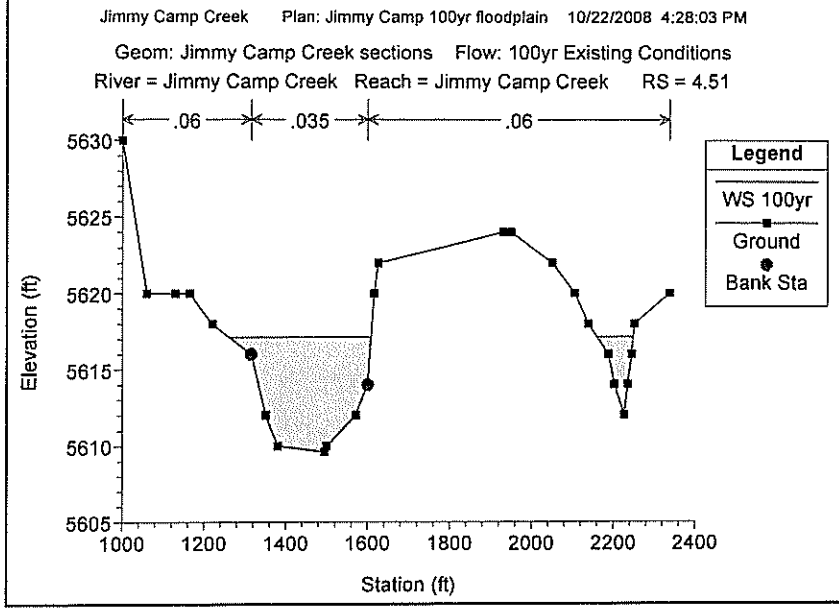
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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.06
.035
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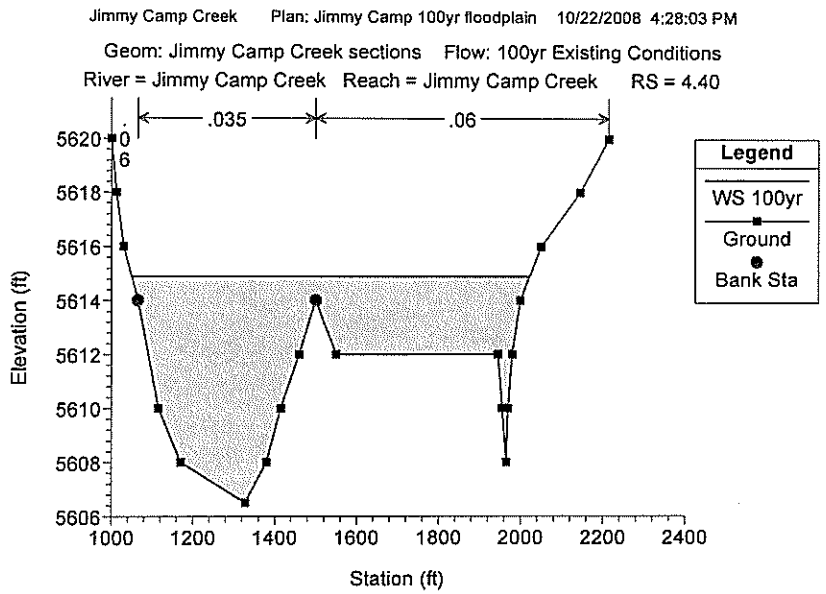
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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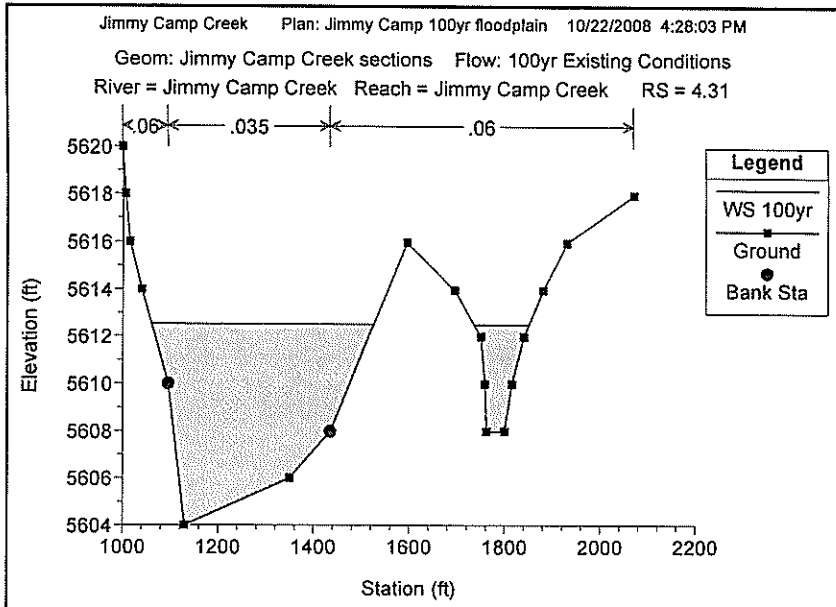
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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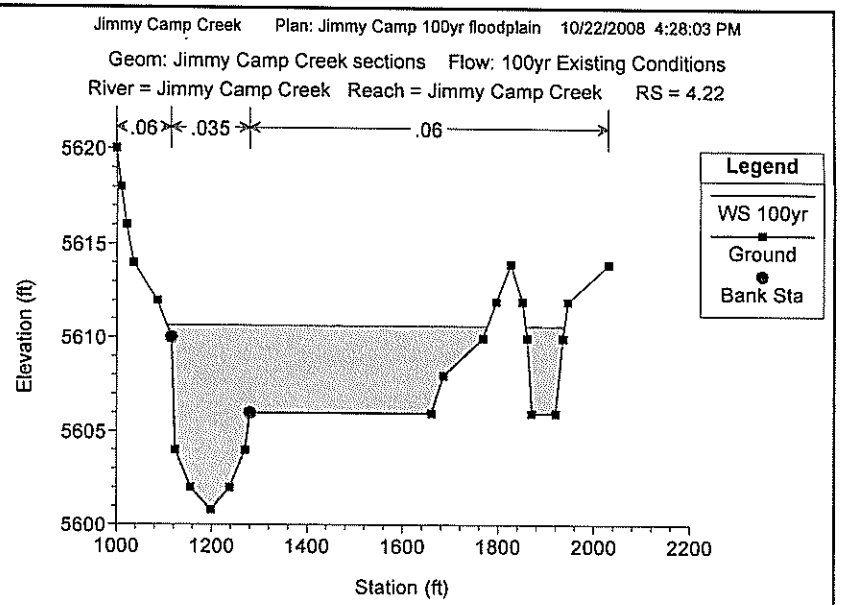
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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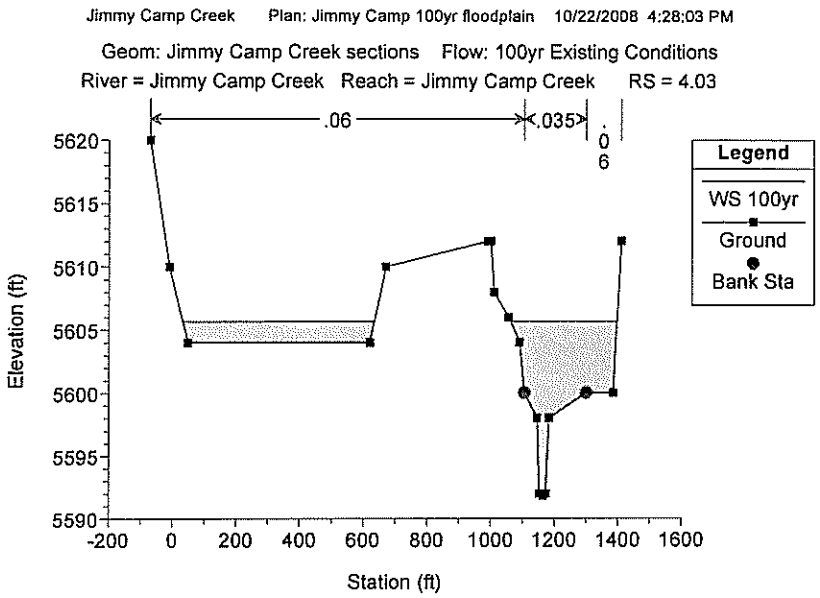
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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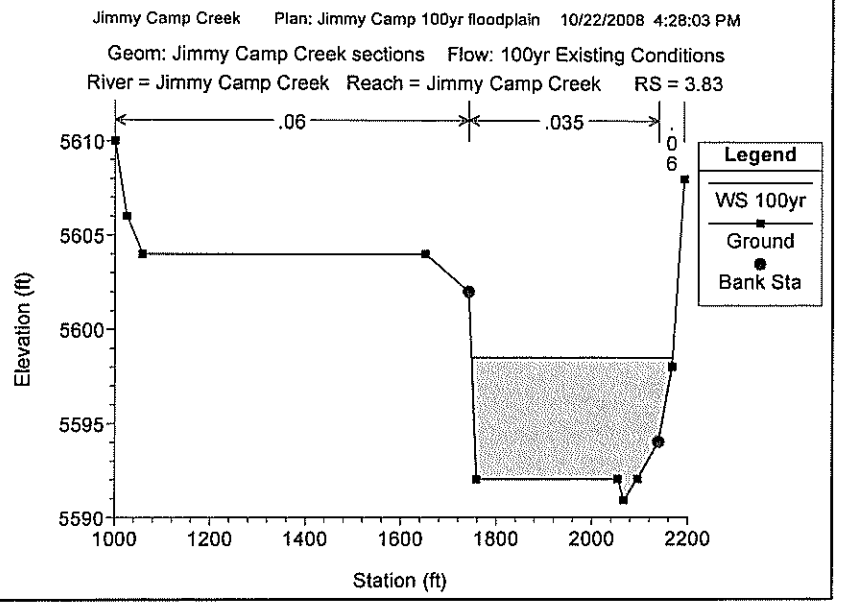
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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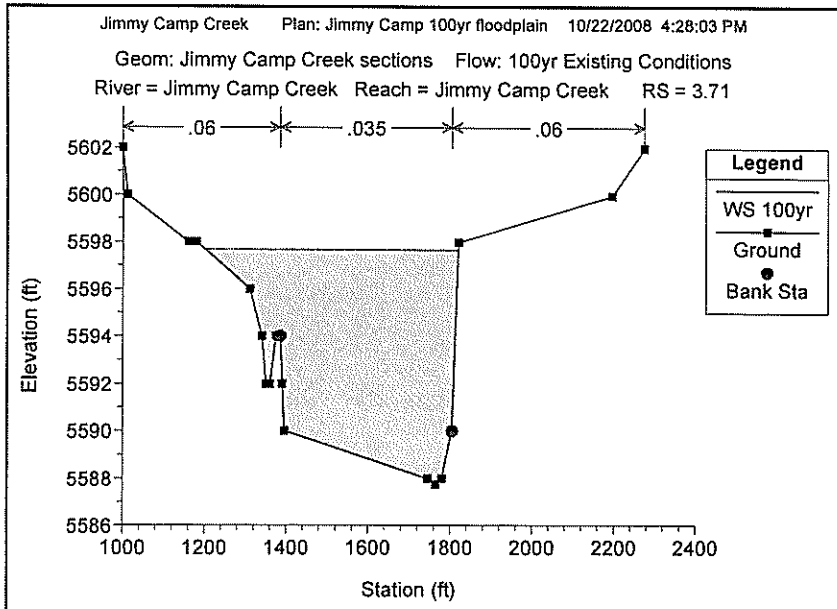
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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.035
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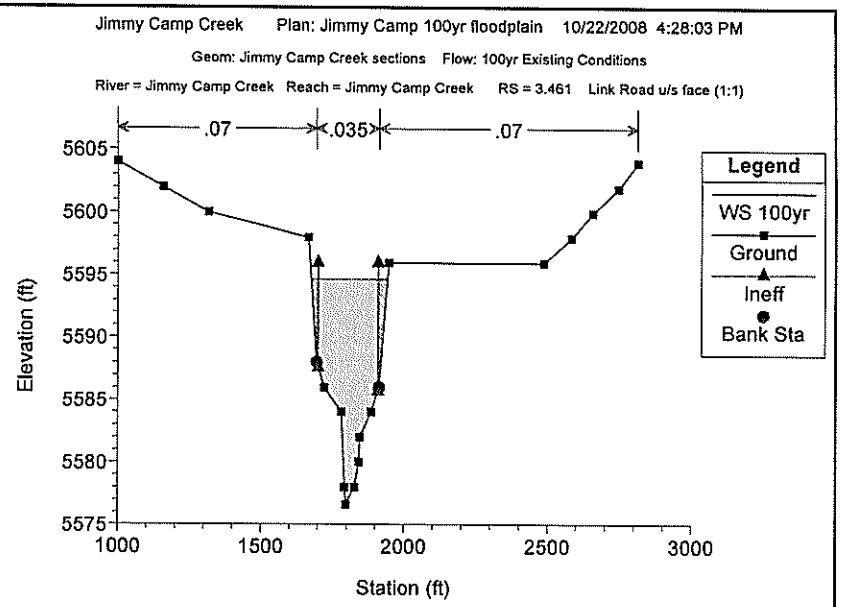
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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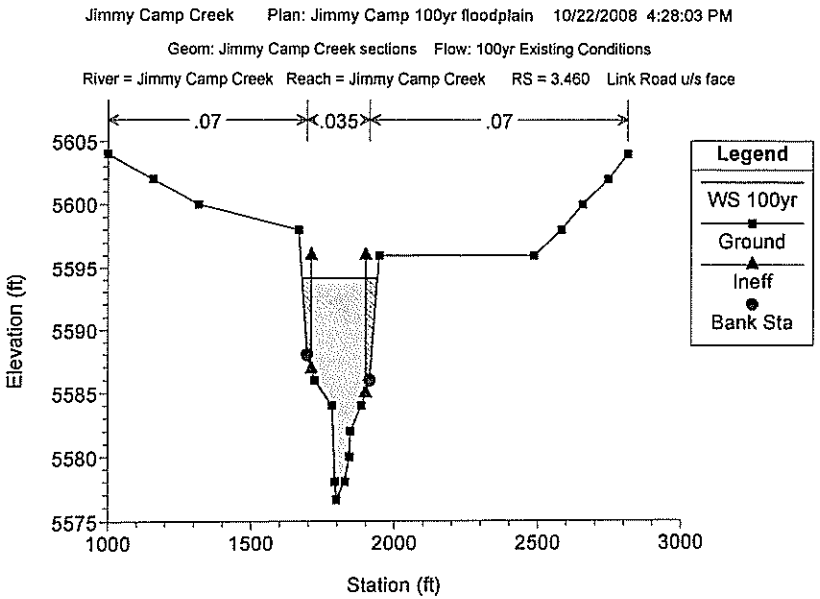
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.07
.035
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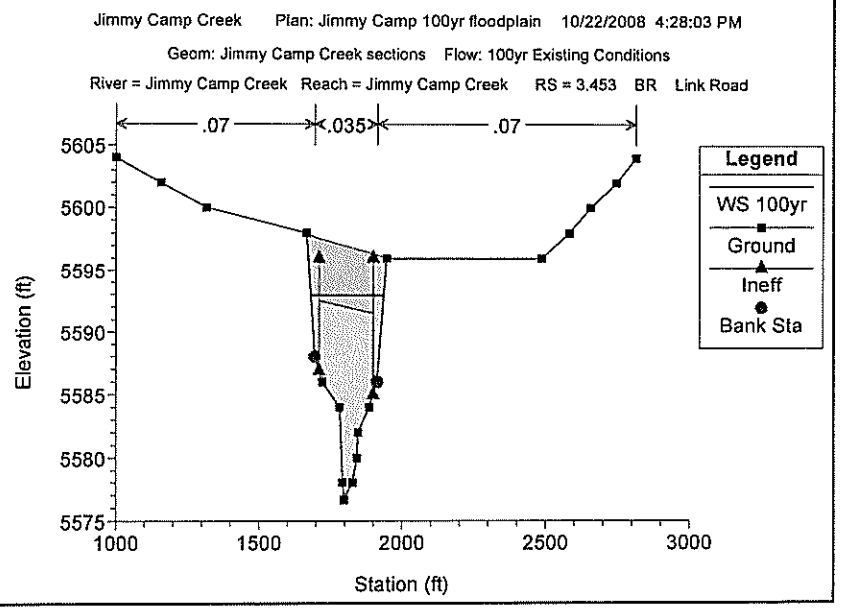
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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.07
.035
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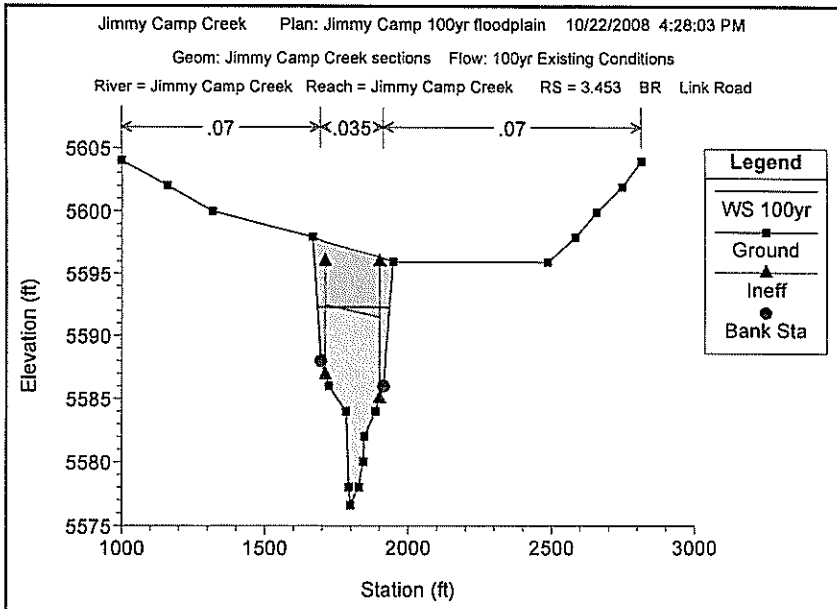
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
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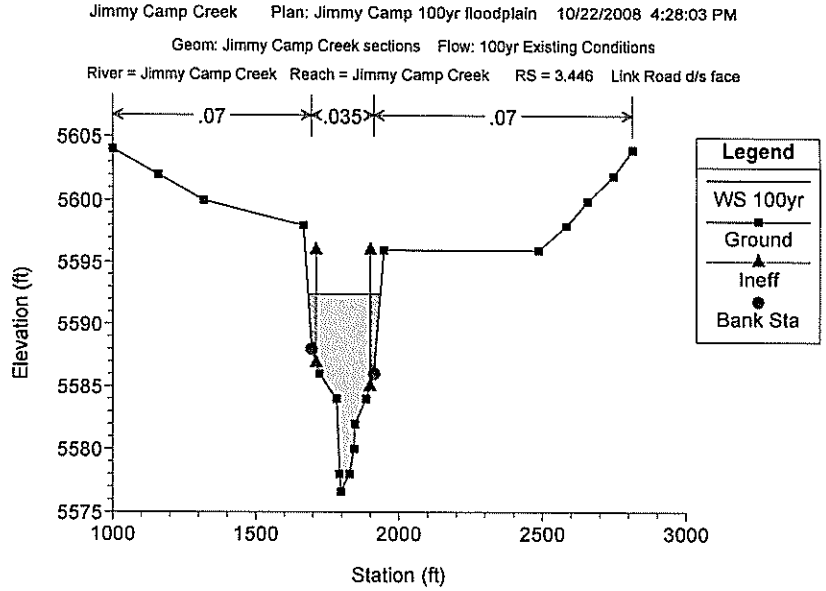
5595
5590
5585
5580
5575
1000
1500
2000
2500
3000
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
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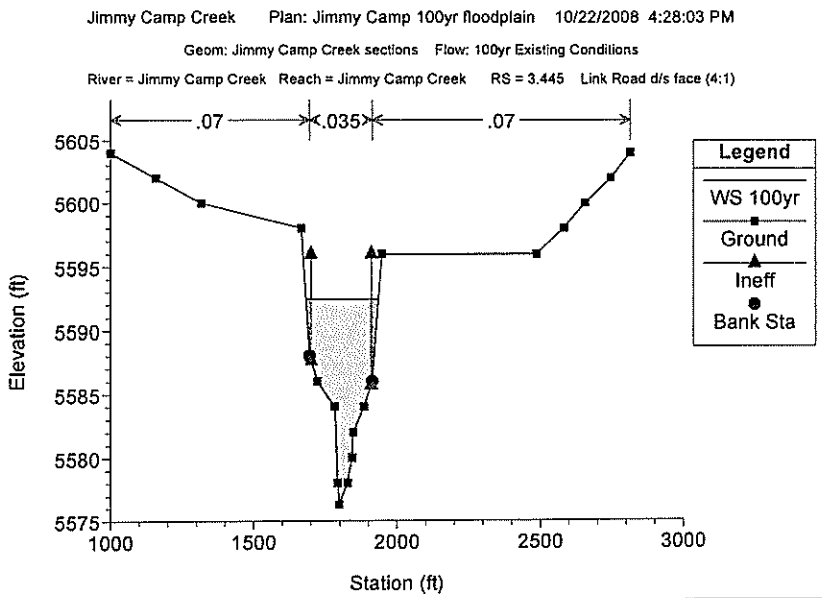
5595
5590
5585
5580
5575
1000
1500
2000
2500
3000
Station (ft)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.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
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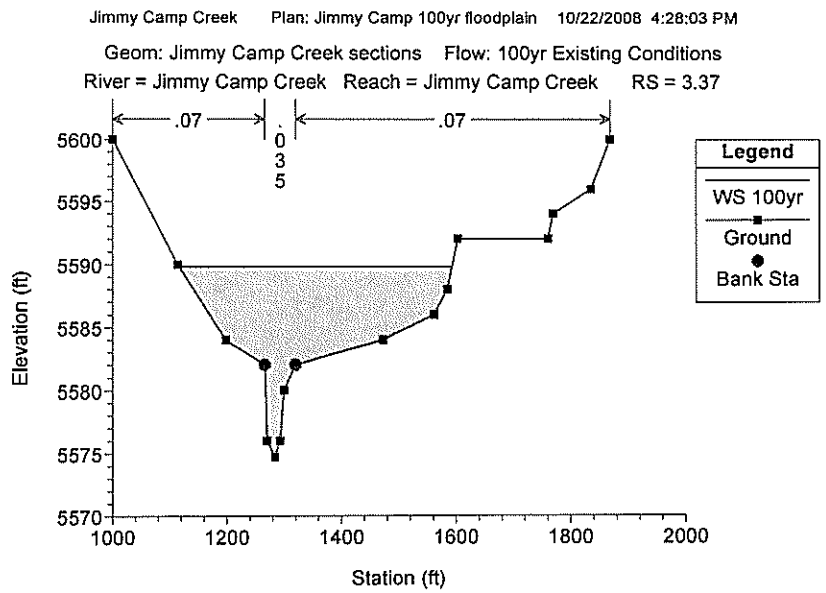
5595
5590
5585
5580
5575
1000
1500
2000
2500
3000
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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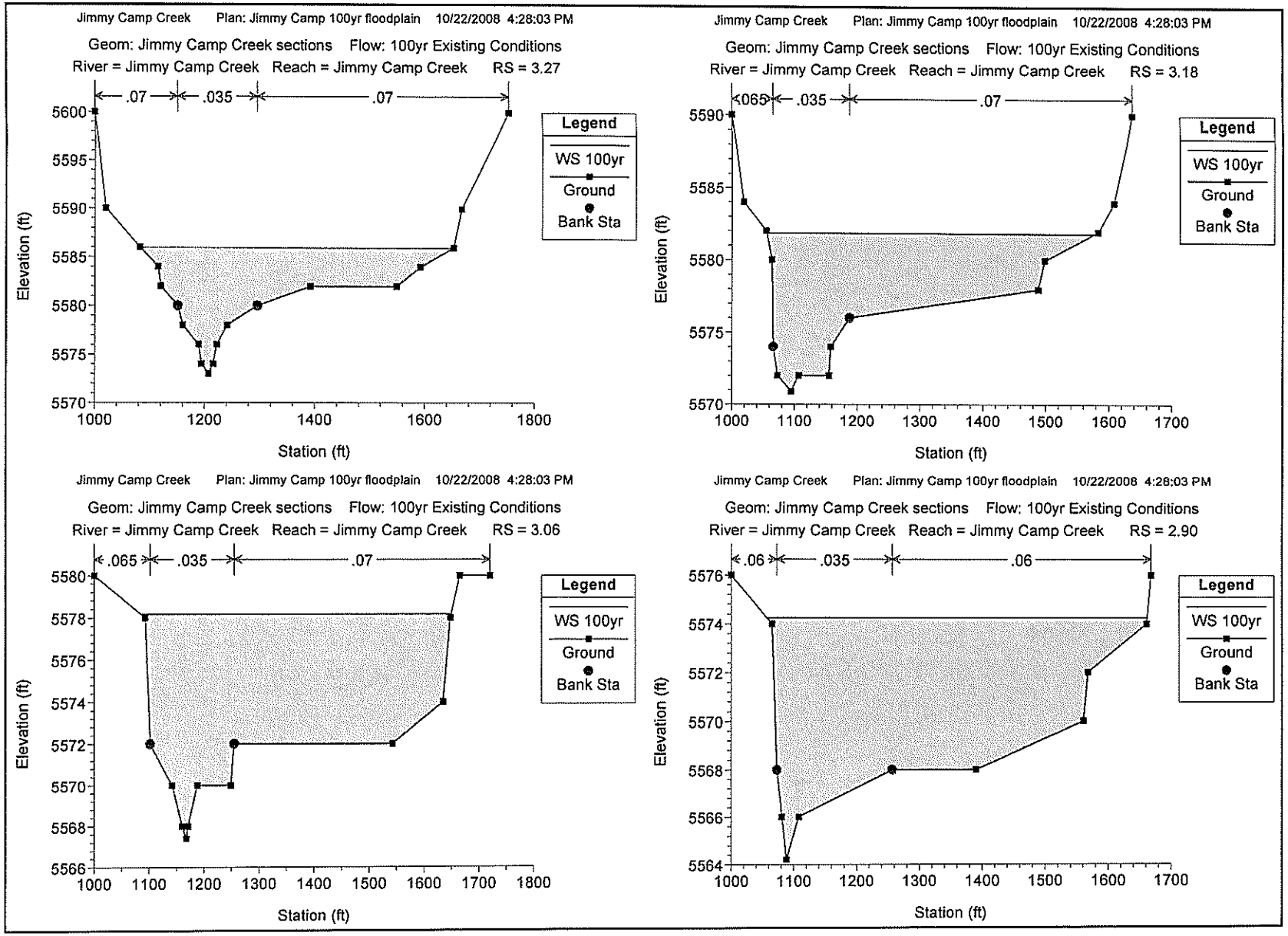
.07
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5600
5595
5590
5585
5580
5575
5570
1000
1200
1400
1600
1800
2000
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 3.27
.07
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 3.18
.065
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 3.06
.065
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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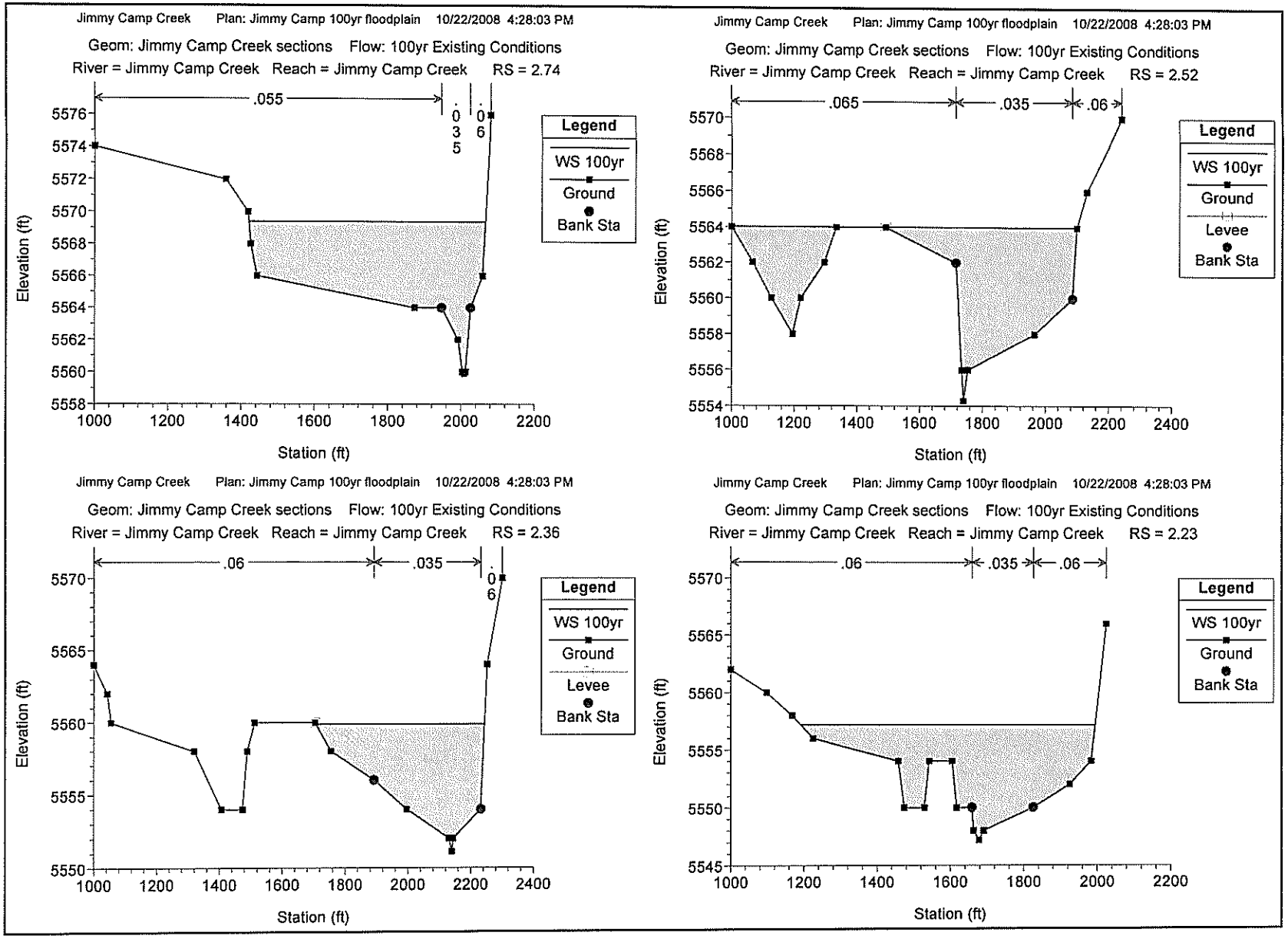
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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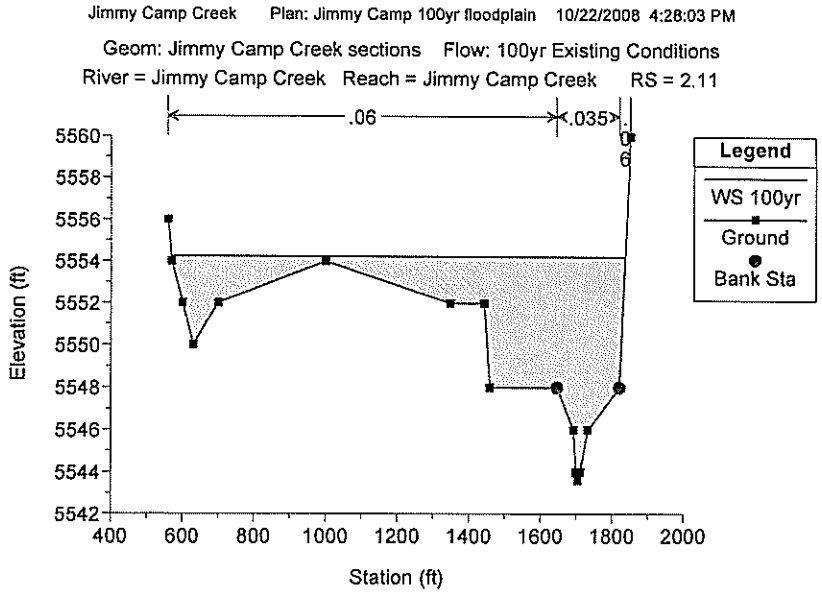
.055
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 2.52
.065
.035
.06
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 2.36
.06
.035
.06
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 2.23
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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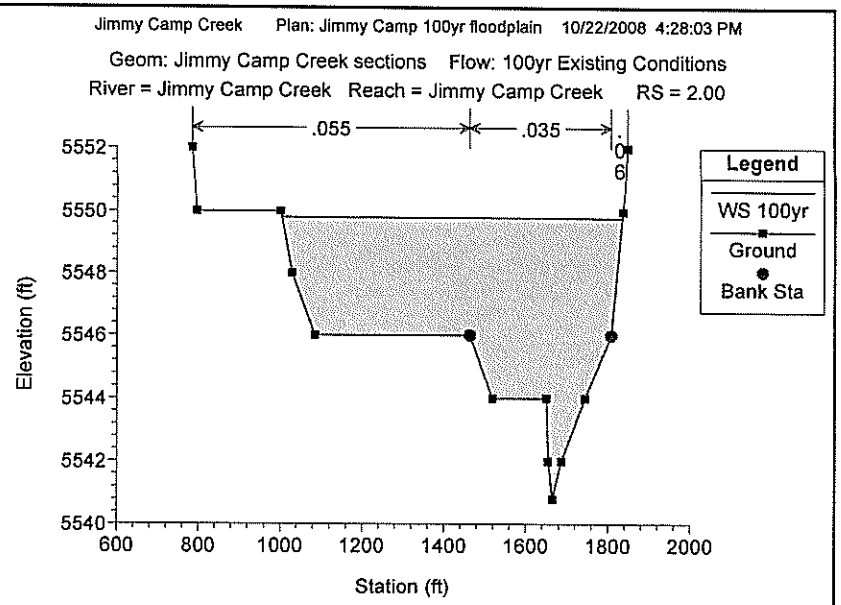
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 2.11
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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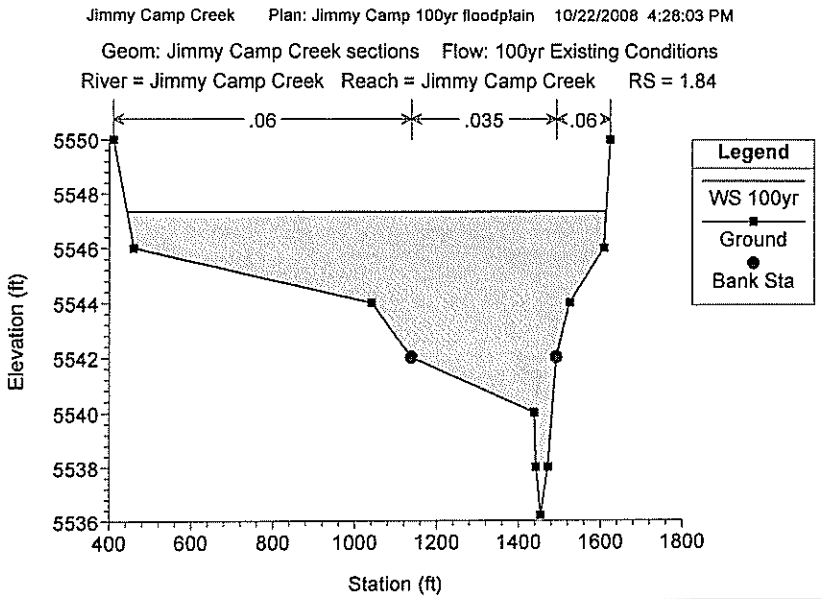
.055
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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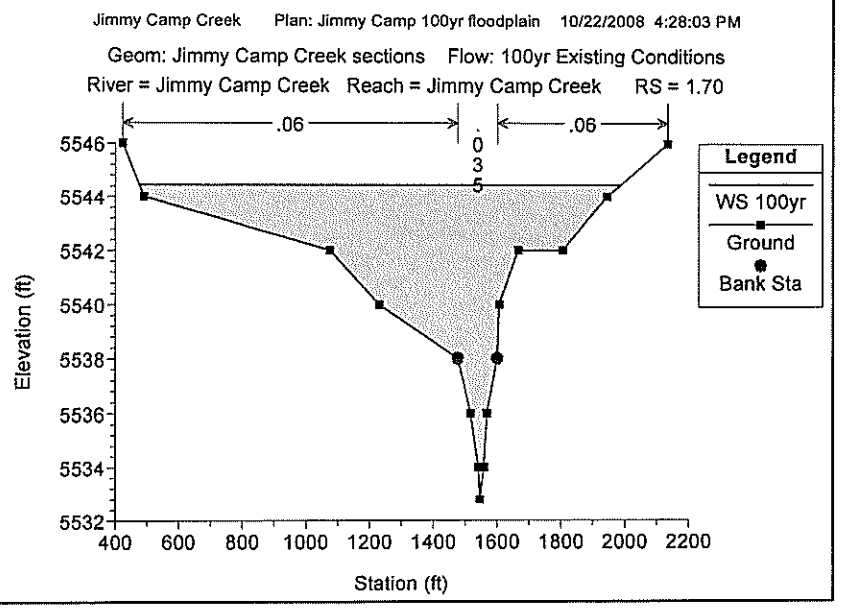
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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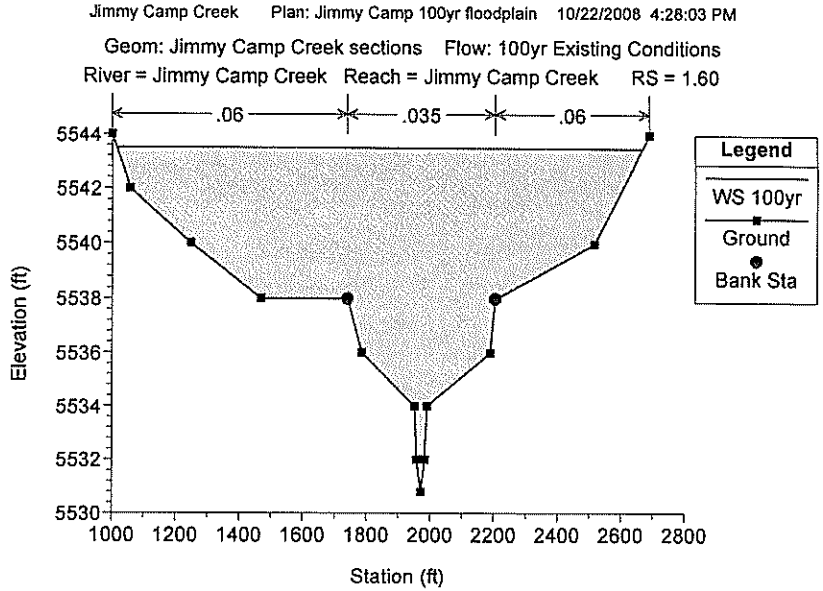
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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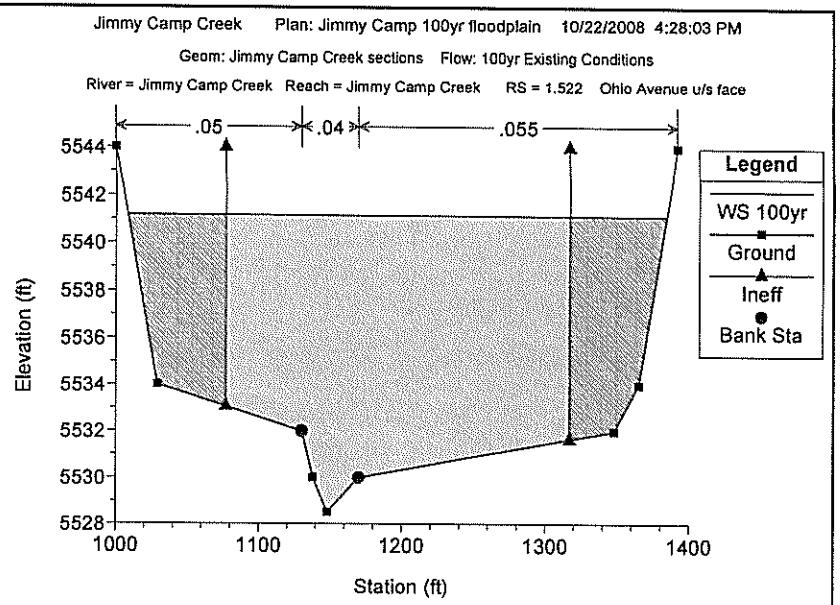
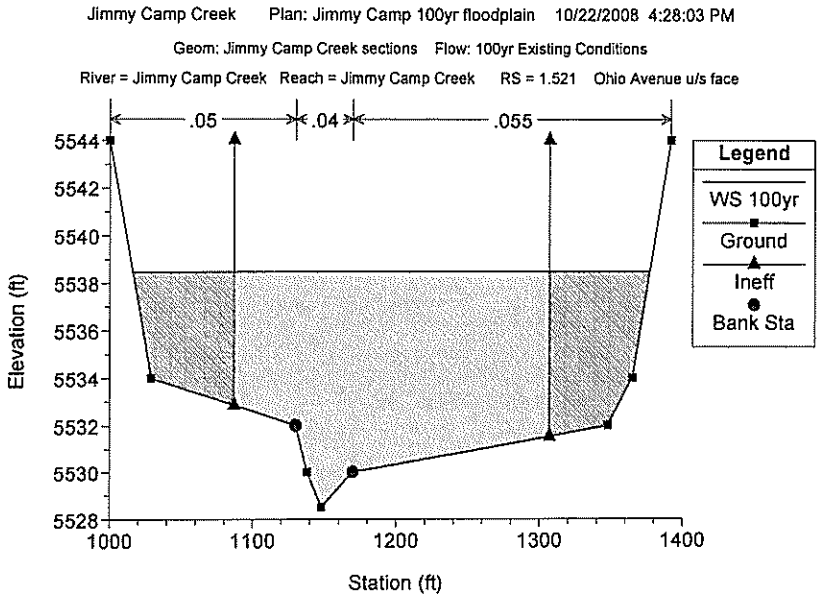
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.60
.06
.035
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5544
5542
5540
5538
5536
5534
5532
5530
1000 1200 1400 1600 1800 2000 2200 2400 2600 2800
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.522 Ohio Avenue u/s face
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5544
5542
5540
5538
5536
5534
5532
5530
5528
1000 1100 1200 1300 1400
Station (ft)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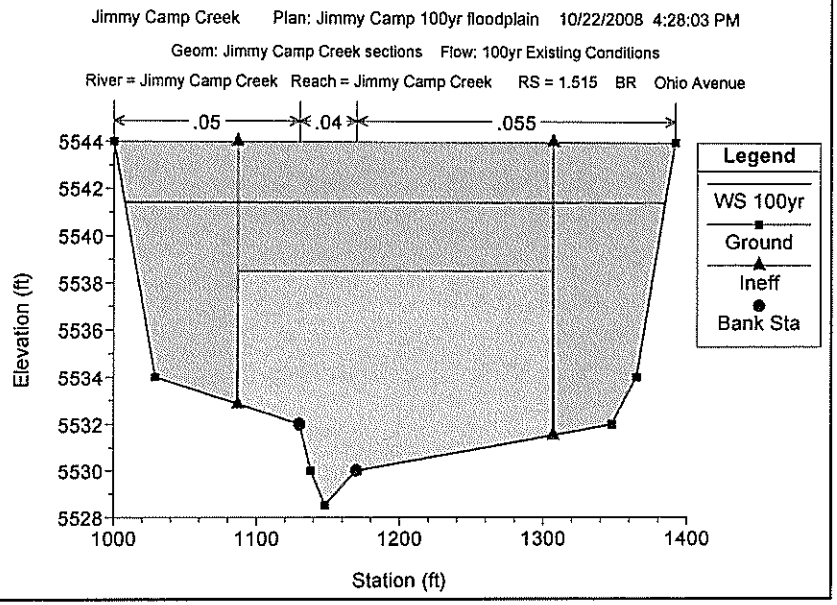
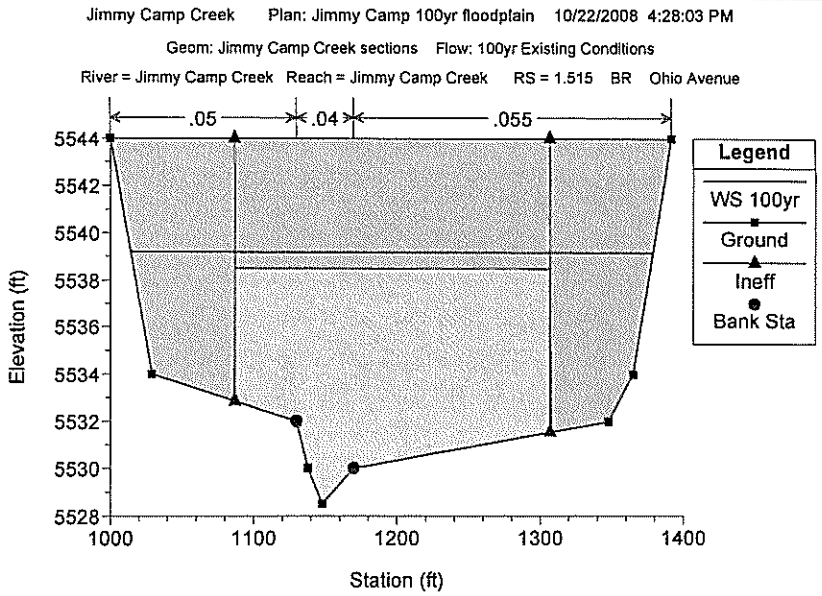
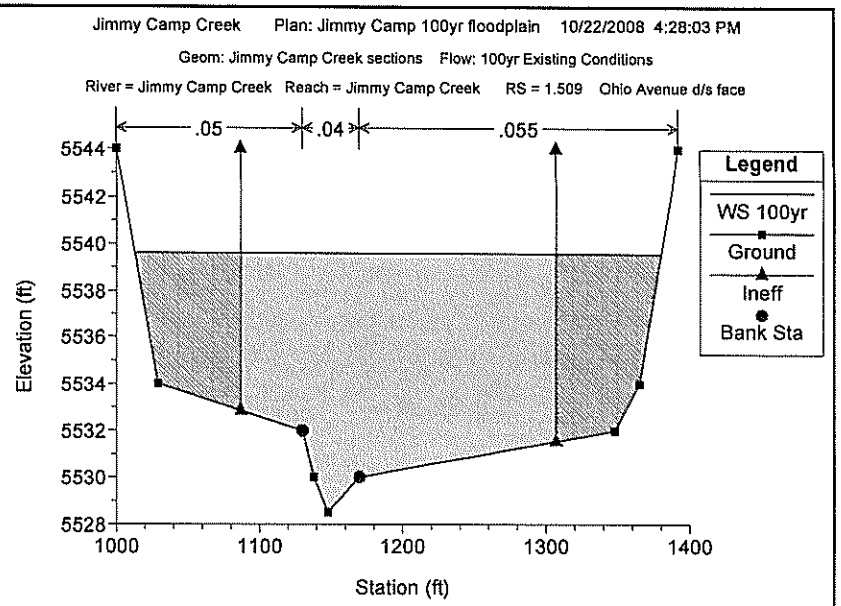
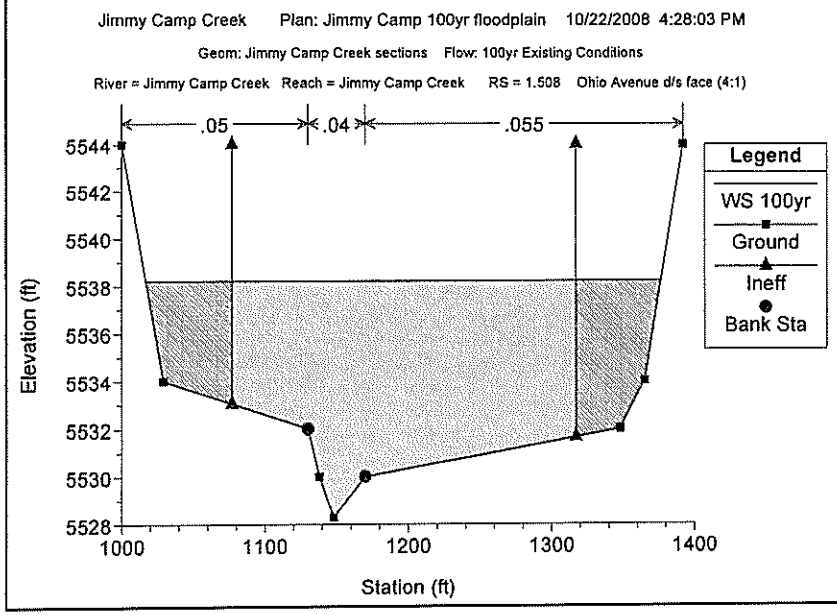
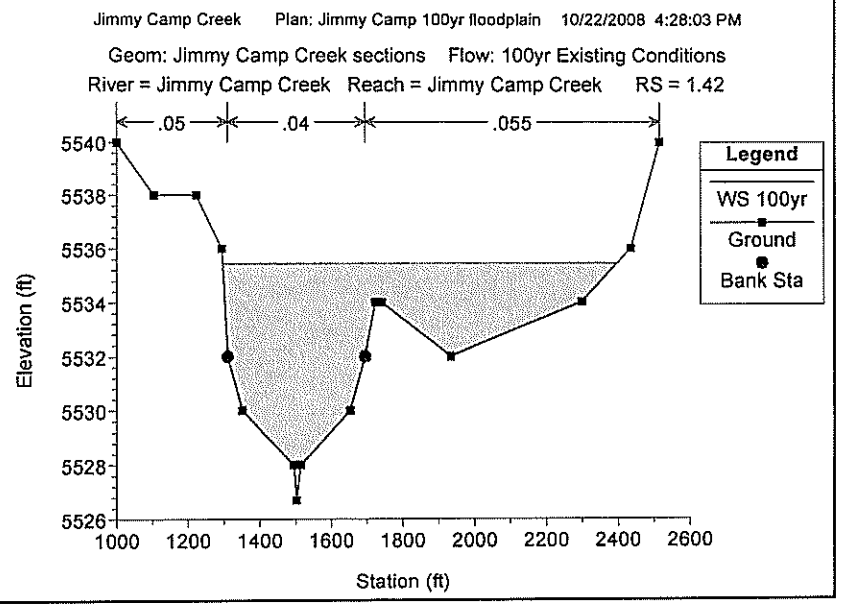
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.521 Ohio Avenue u/s face
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5544
5542
5540
5538
5536
5534
5532
5530
5528
1000 1100 1200 1300 1400
Station (ft)

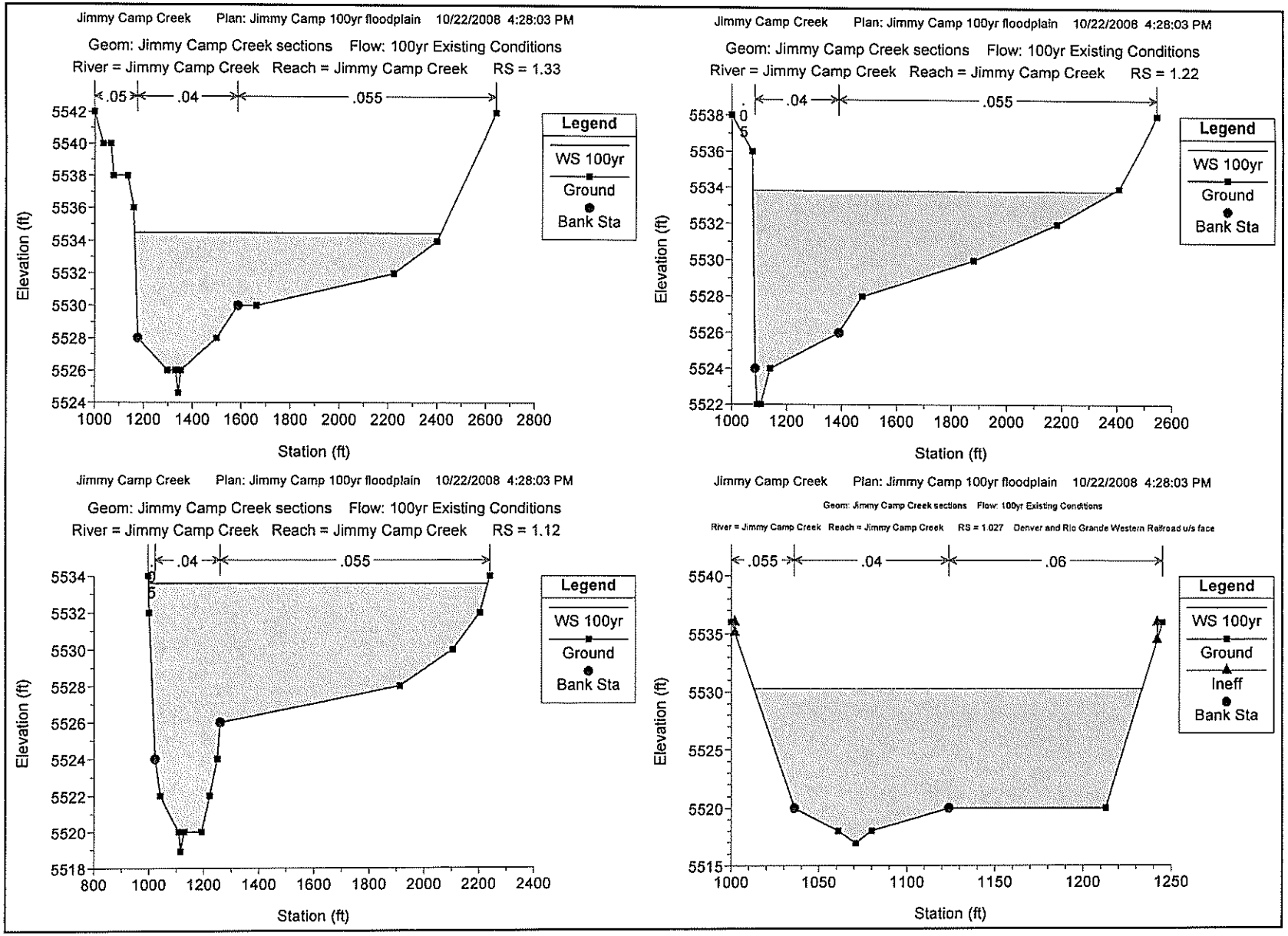

Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.515 BR Ohio Avenue
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5544
5542
5540
5538
5536
5534
5532
5530
5528
1000 1100 1200 1300 1400
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.515 BR Ohio Avenue
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.509 Ohio Avenue d/s face
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.508 Ohio Avenue d/s face (4:1)
.05
.04
.055
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.42
.05
.04
.055
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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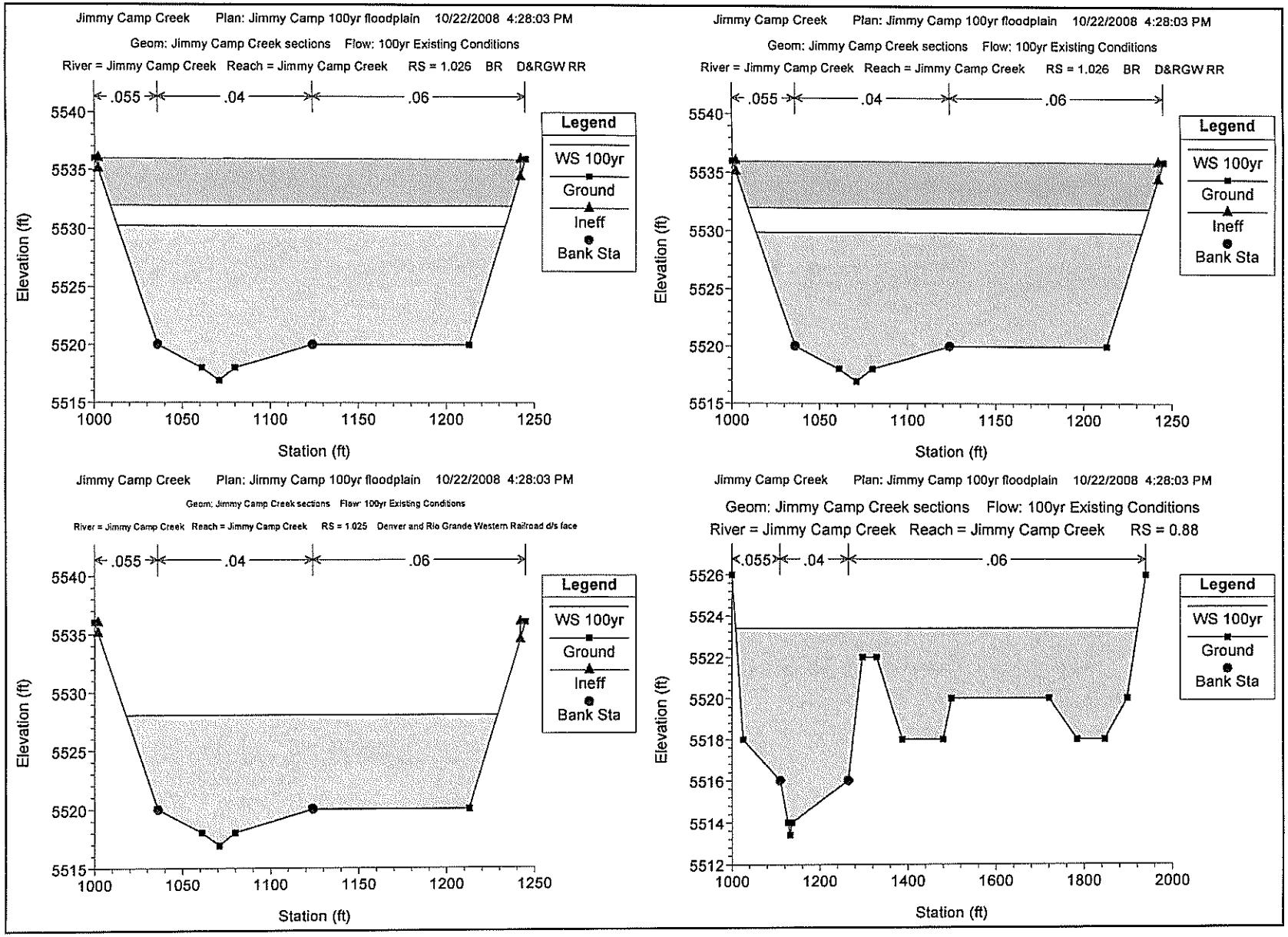
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.33
.05
.04
.055
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.22
.04
.055
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.12
.04
.055
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.027 Denver and Rio Grande Western Railroad u/s face
.055
.04
.06
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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.055
.04
.06
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.026 BR D&RGW RR
.055
.04
.06
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 1.025 Denver and Rio Grande Western Railroad d/s face
.055
.04
.06
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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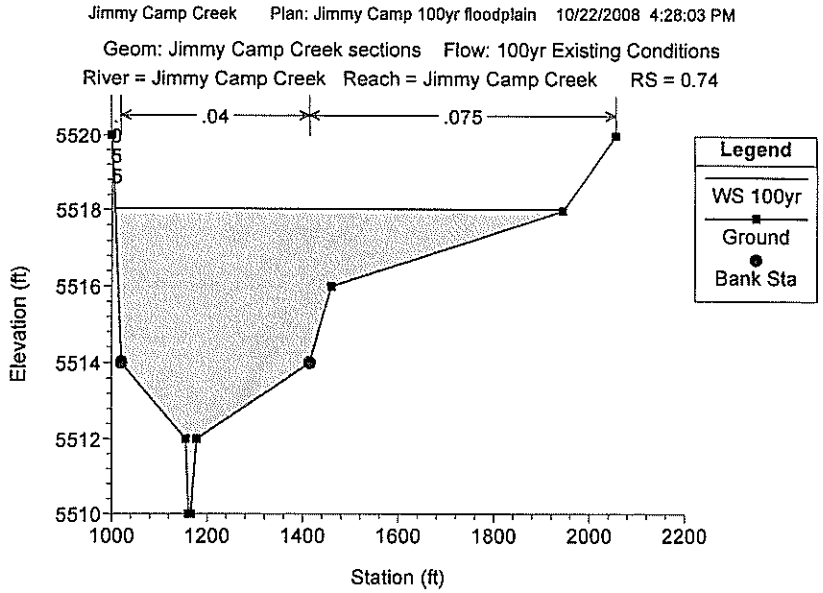
.055
.04
.06
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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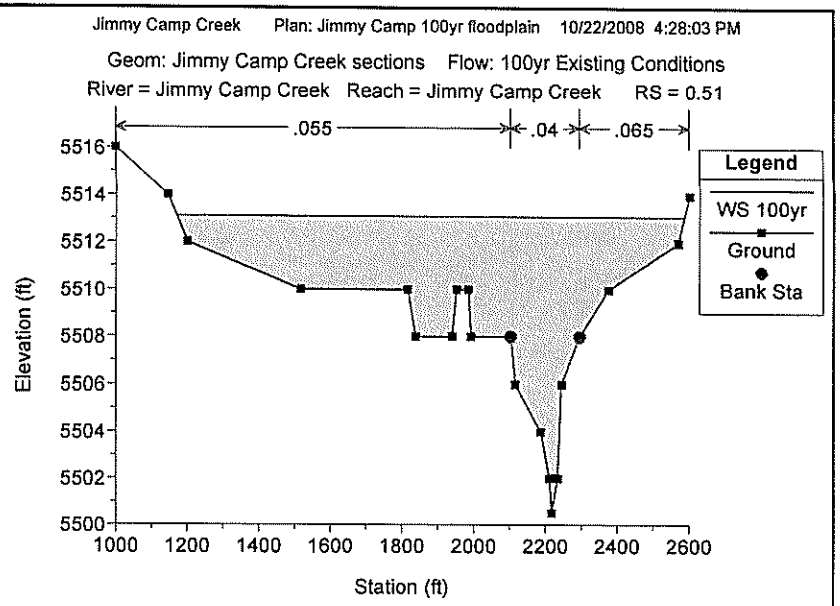
.04
.075
.055
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
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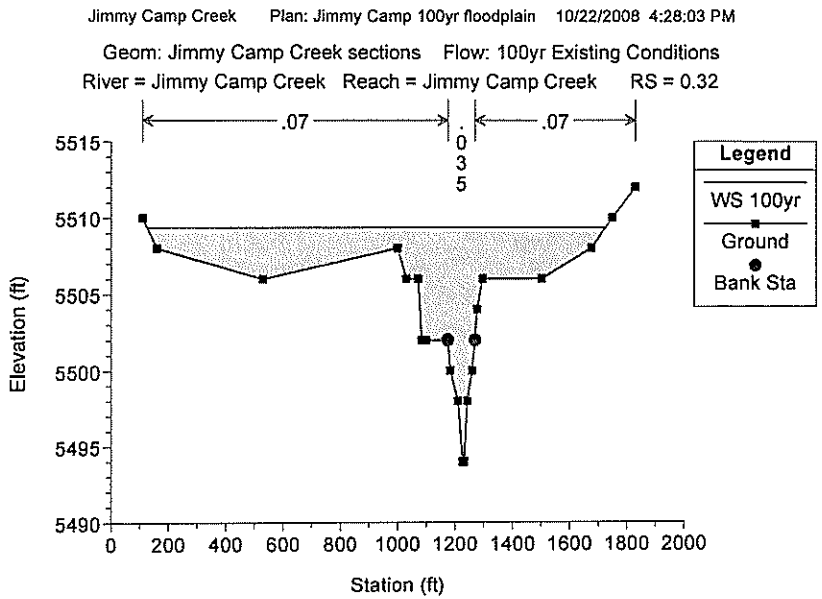
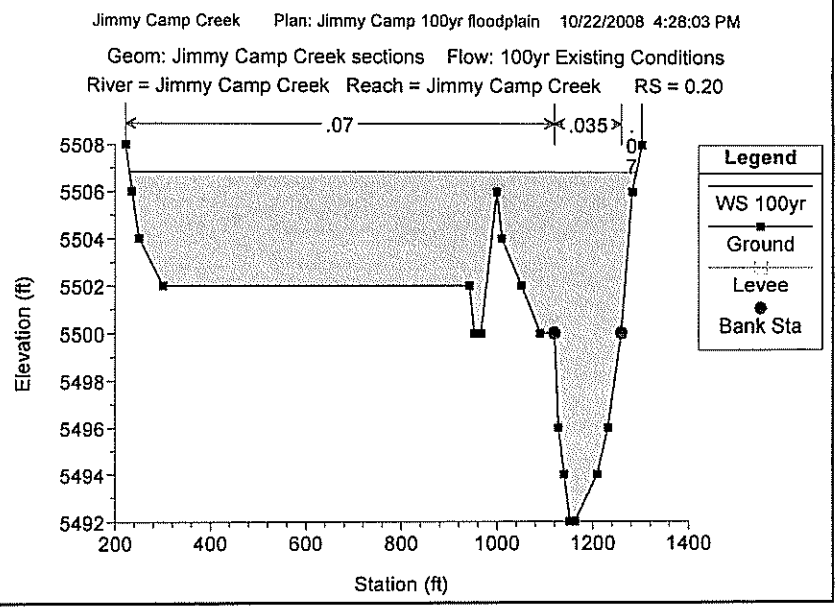
.055
.04
.065
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.32
.07
.07
.035
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
Station (ft)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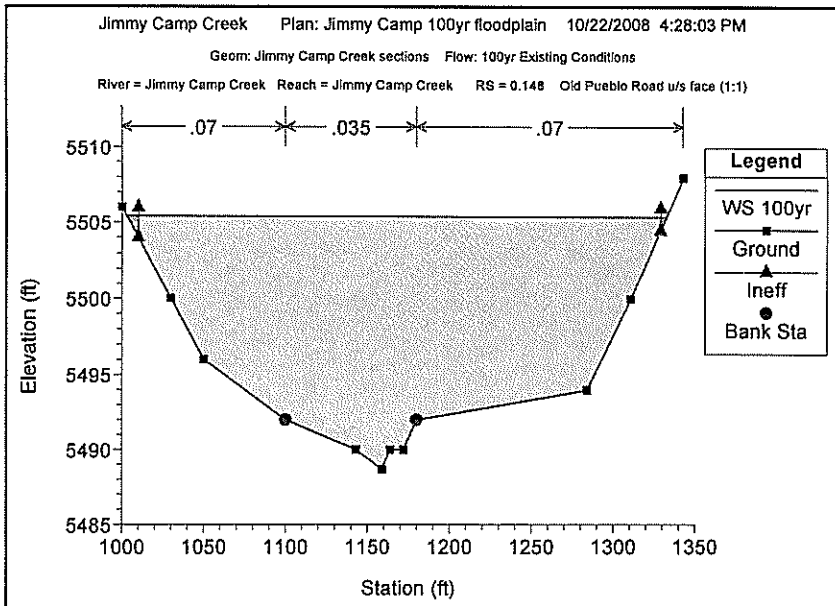
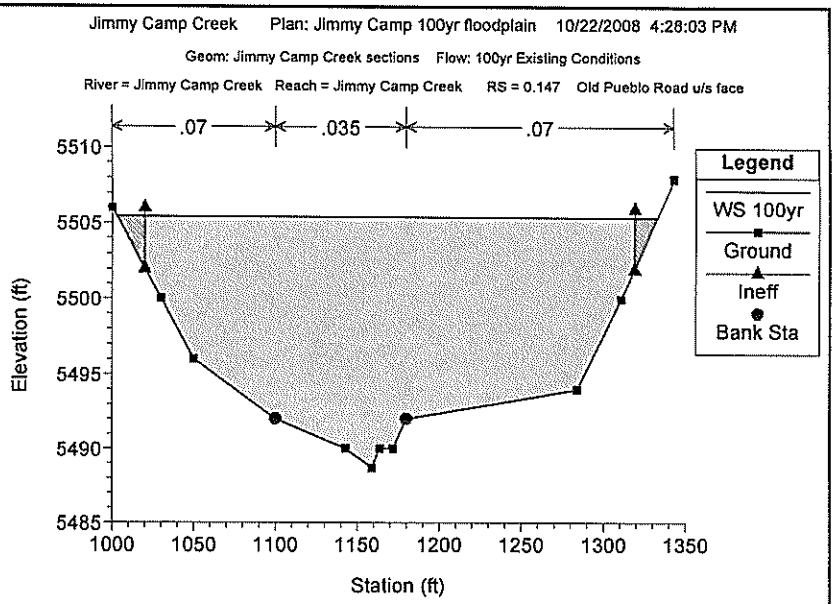
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.20
.07
.035
.07
Legend
WS 100yr
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.148 Old Pueblo Road u/s face (1:1)
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
5490
5485
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.147 Old Pueblo Road u/s face
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
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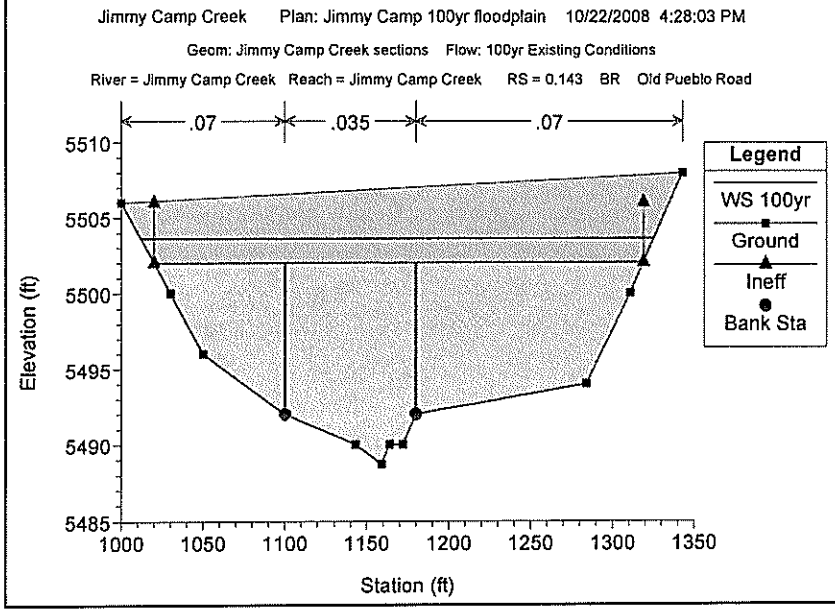
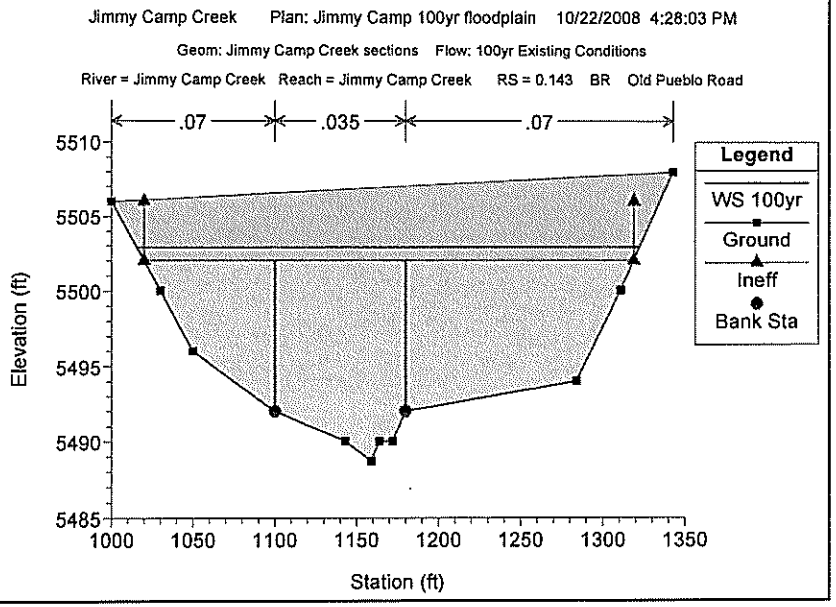
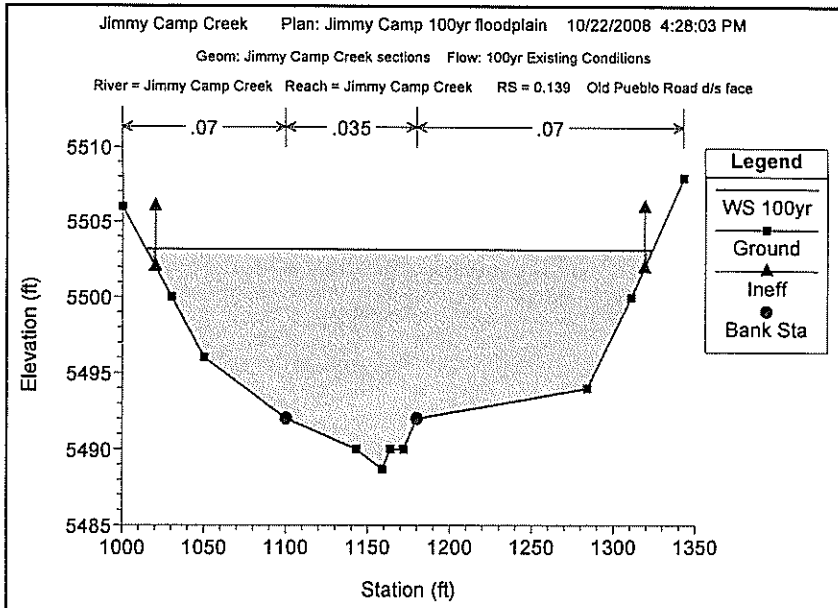
1100
1150
1200
1250
1300
1350
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.143 BR Old Pueblo Road
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
5490
5485
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.143 BR Old Pueblo Road
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
5490
5485
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.139 Old Pueblo Road d/s face
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
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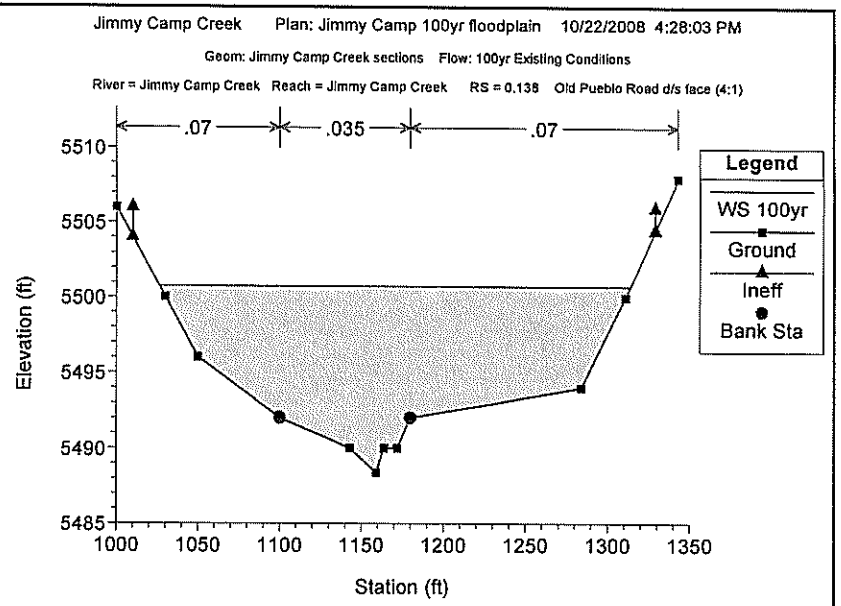
1100
1150
1200
1250
1300
1350
Station (ft)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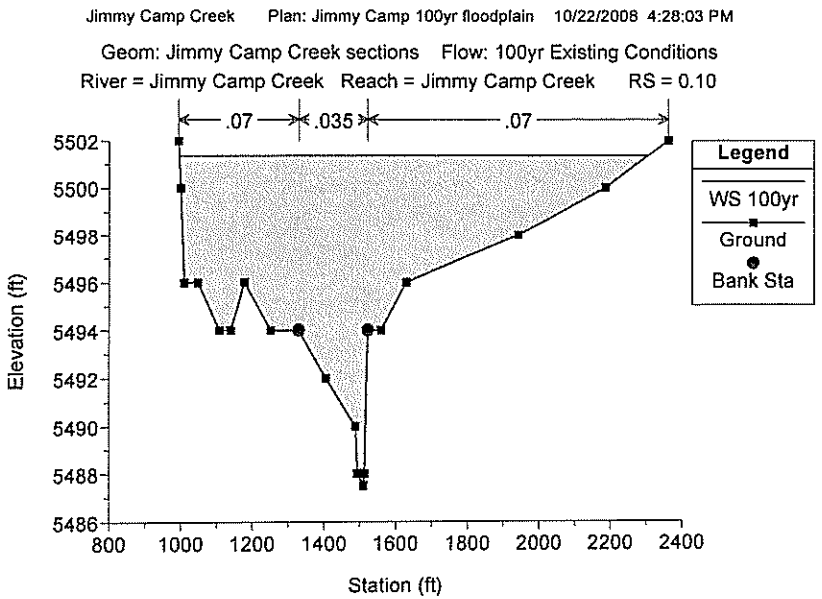
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.138 Old Pueblo Road d/s face (4:1)
.07
.035
.07
Legend
WS 100yr
Ground
Ineff
Bank Sta
Elevation (ft)
5510
5505
5500
5495
5490
5485
1000
1050
1100
1150
1200
1250
1300
1350
Station (ft)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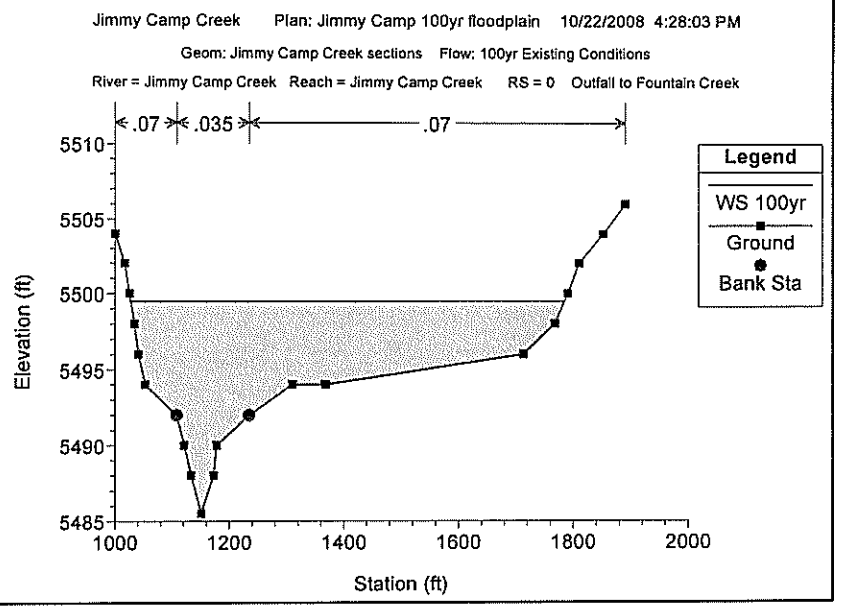
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0.10
.07
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5502
5500
5498
5496
5494
5492
5490
5488
5486
800
1000
1200
1400
1600
1800
2000
2200
2400
Station (ft)


Jimmy Camp Creek Plan: Jimmy Camp 100yr floodplain 10/22/2008 4:28:03 PM
Geom: Jimmy Camp Creek sections Flow: 100yr Existing Conditions
River = Jimmy Camp Creek Reach = Jimmy Camp Creek RS = 0 Outfall to Fountain Creek
.07
.035
.07
Legend
WS 100yr
Ground
Bank Sta
Elevation (ft)
5510
5505
5500
5495
5490
5485
1000
1200
1400
1600
1800
2000
Station (ft)

Kiowa Engineering Corporation

CLIENT _____ JOB NO. _____ PAGE _____
PROJECT _____ DATE CHECKED _____ DATE _____
DETAIL _____ CHECKED BY _____ COMPUTED BY _____

Overtopping

Francesville / Drennan Rd Rating

El	Ditch Flow	Road Overtop	total
Ø	Ø	Ø	Ø
1.00	200	Ø	200
1.25	350	500	850
1.50	575	1500	2075
1.75	900	3000	3900
2.00	1250	5000	6250

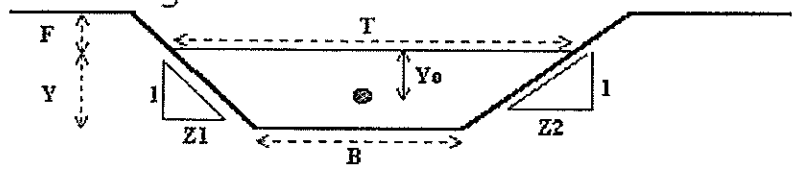
Q_{100} = 16250 cfs

Franceville/Drennan

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion to Corral (R-F5B) at Drennan

Channel ID: Ditch along N. Side of Drennan



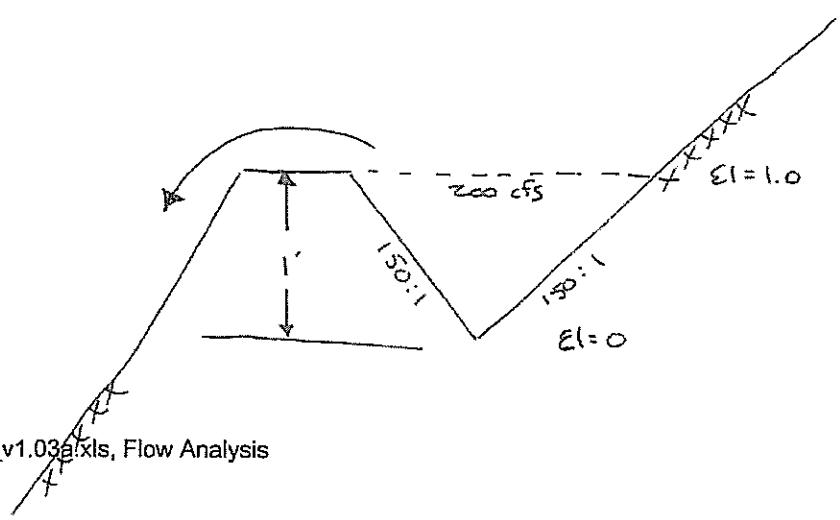
Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

Design Information			
Enter Grass Manning's n	n =	0.050	
Type of Grass (A,B,C,D, or E)		Other Grass	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	0.00	ft
Left Side Slope	Z1 =	150.00	ft/ft
Right Side Slope	Z2 =	150.00	ft/ft
Design Discharge	**Q =**	**200.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

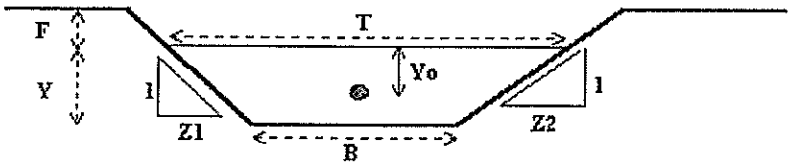
Flow Condition (Calculated)			
Water Depth	**Y =**	**1.00**	**ft**
Top Width	T =	300.51	ft
Flow Area	A =	150.51	sq ft
Wetted Perimeter	P =	300.51	ft
Hydraulic Radius	R =	0.50	ft
Flow Velocity	V =	1.33	fps
Hydraulic Depth	D =	0.50	ft
Froude Number	**Fr =**	**0.33**	
Discharge (Check)	**Q=**	**200.01**	**cfs**



El	Q
0	0
1.00	200
1.25	350
1.50	575
1.75	900
2.00	1250

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan
Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

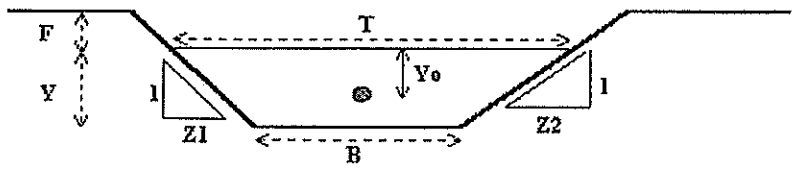
Design Information			
Enter Grass Manning's n	n =	0.050	
Type of Grass (A,B,C,D, or E)		Other Grass	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	0.00	ft
Left Side Slope	Z1 =	150.00	ft/ft
Right Side Slope	Z2 =	150.00	ft/ft
Design Discharge	Q =	**350.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

Flow Condition (Calculated)			
Water Depth	Y =	**1.24**	**ft**
Top Width	T =	370.68	ft
Flow Area	A =	229.01	sq ft
Wetted Perimeter	P =	370.69	ft
Hydraulic Radius	R =	0.62	ft
Flow Velocity	V =	1.53	fps
Hydraulic Depth	D =	0.62	ft
Froude Number	**Fr =**	**0.34**	
Discharge (Check)	Q=	**350.03**	**cfs**

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion to Corral (R-F5B) at Drennan

Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

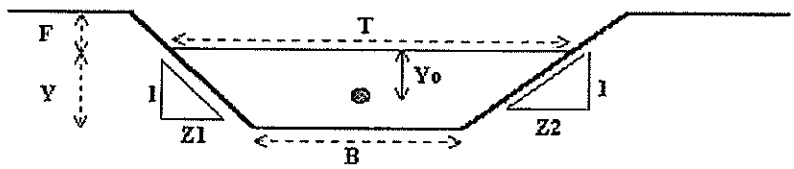
Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

Design Information			
Enter Grass Manning's n	n =	0.050	
Type of Grass (A,B,C,D, or E)		Other Grass	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	0.00	ft
Left Side Slope	Z1 =	150.00	ft/ft
Right Side Slope	Z2 =	150.00	ft/ft
Design Discharge	Q =	**575.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

Flow Condition (Calculated)			
Water Depth	Y =	**1.49**	**ft**
Top Width	T =	446.52	ft
Flow Area	A =	332.30	sq ft
Wetted Perimeter	P =	446.53	ft
Hydraulic Radius	R =	0.74	ft
Flow Velocity	V =	1.73	fps
Hydraulic Depth	D =	0.74	ft
Froude Number	Fr =	**0.35**	
Discharge (Check)	Q=	**575.01**	**cfs**

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan
Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

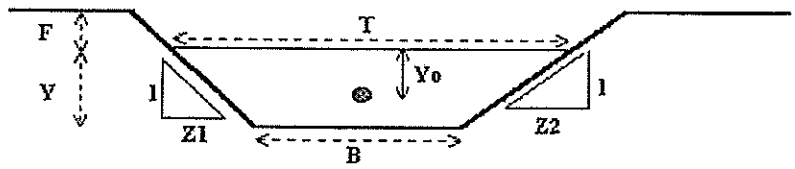
Design Information			
Enter Grass Manning's n	n =	0.050	
Type of Grass (A,B,C,D, or E)		Other Grass	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	0.00	ft
Left Side Slope	Z1 =	150.00	ft/ft
Right Side Slope	Z2 =	150.00	ft/ft
Design Discharge	**Q =**	**900.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

Flow Condition (Calculated)			
Water Depth	Y =	**1.76**	**ft**
Top Width	T =	528.21	ft
Flow Area	A =	465.02	sq ft
Wetted Perimeter	P =	528.23	ft
Hydraulic Radius	R =	0.88	ft
Flow Velocity	V =	1.94	fps
Hydraulic Depth	D =	0.88	ft
Froude Number	Fr =	**0.36**	
Discharge (Check)	Q=	**900.05**	cfs

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan

Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

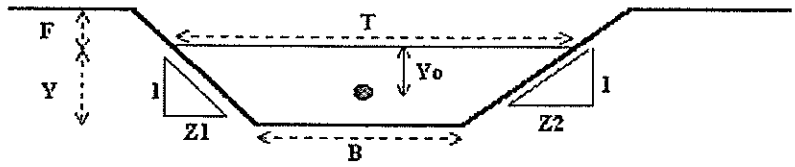
Design Information			
Enter Grass Manning's n	n =	0.050	
Type of Grass (A,B,C,D, or E)		Other Grass	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	0.00	ft
Left Side Slope	Z1 =	150.00	ft/ft
Right Side Slope	Z2 =	150.00	ft/ft
Design Discharge	**Q =**	**1,250.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

Flow Condition (Calculated)			
Water Depth	Y =	**1.99**	**ft**
Top Width	T =	597.46	ft
Flow Area	A =	594.93	sq ft
Wetted Perimeter	P =	597.47	ft
Hydraulic Radius	R =	1.00	ft
Flow Velocity	V =	2.10	fps
Hydraulic Depth	D =	1.00	ft
Froude Number	Fr =	**0.37**	
Discharge (Check)	Q=	**1,250.05**	cfs

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan

Channel ID: Diversion overtop Drennan



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

Design Information			
Enter Grass Manning's n	n =	0.016	
Type of Grass (A,B,C,D, or E)		Other Liner	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	700.00	ft
Left Side Slope	Z1 =	175.00	ft/ft
Right Side Slope	Z2 =	175.00	ft/ft
Design Discharge	Q =	**500.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

Flow Condition (Calculated)			
Water Depth	Y =	**0.26**	**ft**
Top Width	T =	791.02	ft
Flow Area	A =	193.89	sq ft
Wetted Perimeter	P =	791.03	ft
Hydraulic Radius	R =	0.25	ft
Flow Velocity	V =	2.58	fps
Hydraulic Depth	D =	0.25	ft
Warning 04 **Froude Number**	Fr =	**0.92**	
Discharge (Check)	Q=	**500.04**	**cfs**

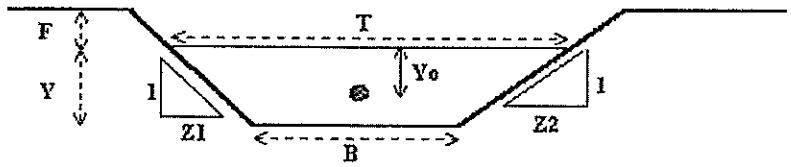
Warning 04: Froude No. exceeds USDCM Criteria Manual Volume II recommendation.

El	Q
0	0
1.00	0
1.25	500
1.50	1500
1.75	3000
2.00	5000

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan

Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

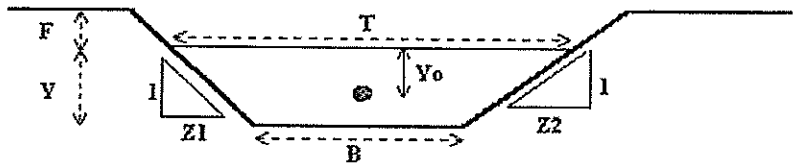
Design Information			
Enter Grass Manning's n	n =	0.016	
Type of Grass (A,B,C,D, or E)		Other Liner	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	700.00	ft
Left Side Slope	Z1 =	175.00	ft/ft
Right Side Slope	Z2 =	175.00	ft/ft
Design Discharge	**Q =**	**1,500.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

	Flow Condition (Calculated)			
	Water Depth	**Y =**	**0.50**	**ft**
	Top Width	T =	873.50	ft
	Flow Area	A =	390.00	sq ft
	Wetted Perimeter	P =	873.50	ft
	Hydraulic Radius	R =	0.45	ft
	Flow Velocity	V =	3.85	fps
	Hydraulic Depth	D =	0.45	ft
Warning 04	**Froude Number**	**Fr =**	**1.01**	
	Discharge (Check)	**Q=**	**1,500.20**	**cfs**

Warning 04: Froude No. exceeds USDCM Criteria Manual Volume II recommendation.

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan
Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

Design Information			
Enter Grass Manning's n	n =	0.016	
Type of Grass (A,B,C,D, or E)		Other Liner	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	700.00	ft
Left Side Slope	Z1 =	175.00	ft/ft
Right Side Slope	Z2 =	175.00	ft/ft
Design Discharge	**Q =**	**3,000.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

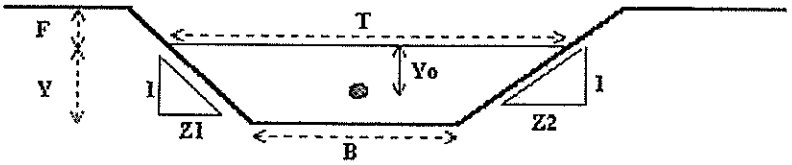
Flow Condition (Calculated)			
Water Depth	**Y =**	**0.74**	**ft**
Top Width	T =	958.91	ft
Flow Area	A =	613.59	sq ft
Wetted Perimeter	P =	958.92	ft
Hydraulic Radius	R =	0.64	ft
Flow Velocity	V =	4.89	fps
Hydraulic Depth	D =	0.64	ft
Warning 04 **Froude Number**	**Fr =**	**1.08**	
Discharge (Check)	**Q=**	**3,000.28**	**cfs**

Warning 04: Froude No. exceeds USDCM Criteria Manual Volume II recommendation.

Analysis of Trapezoidal Grass-Lined Channel

Project: Franceville Diversion overtop Drennan

Channel ID:



Design Information

Grass Type:	A	B	C	D	E
Limiting Manning's n	0.060	0.040	0.033	0.030	0.024

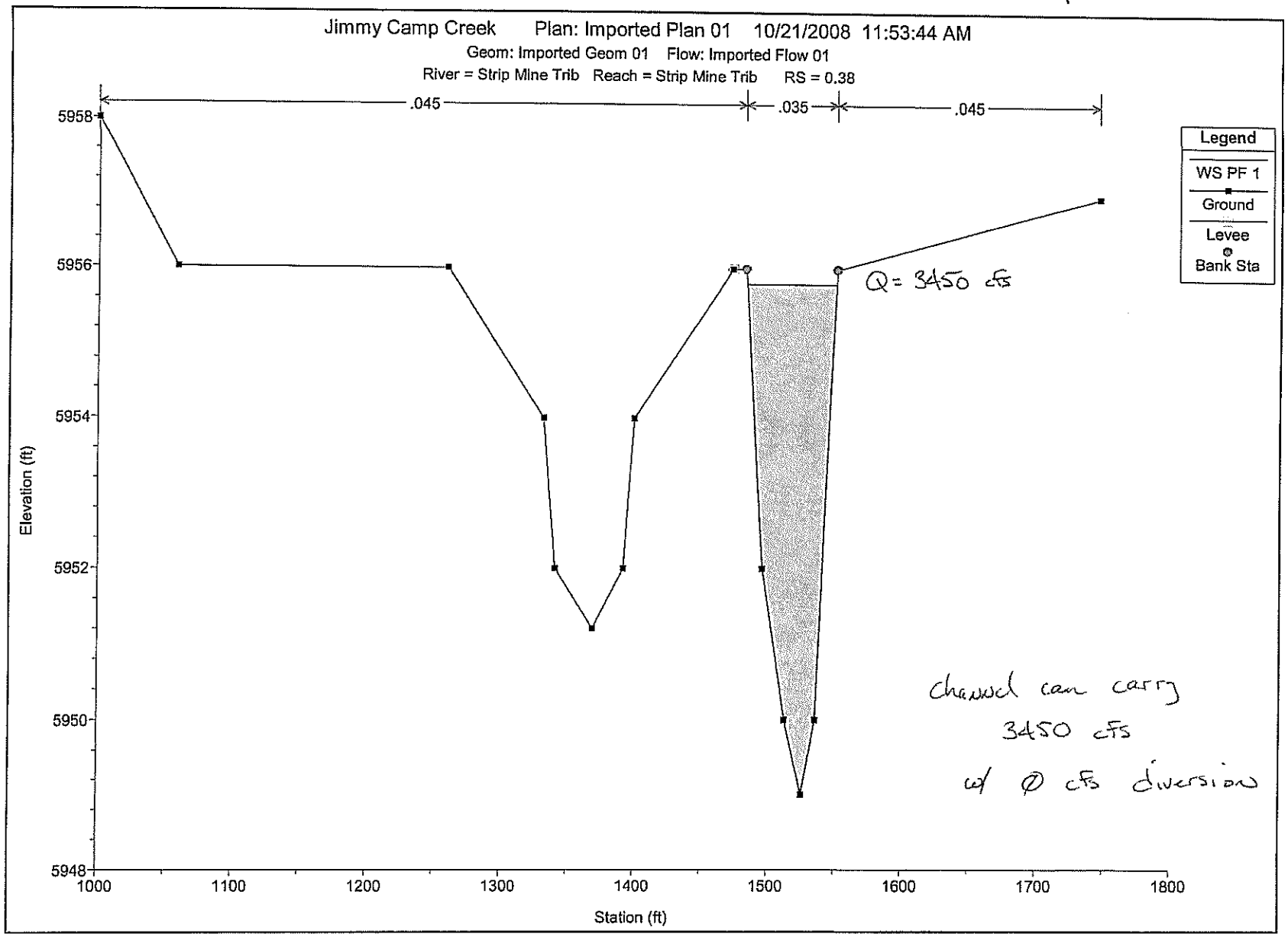
Soil Type:	Max. Velocity (V_{max})	Max. Froude No. (F_{max})
Non-Sandy	7.0 fps	0.80
Sandy	5.0 fps	0.60

Design Information			
Enter Grass Manning's n	n =	0.016	
Type of Grass (A,B,C,D, or E)		Other Liner	
Channel Invert Slope	So =	0.0050	ft/ft
Bottom Width	B =	700.00	ft
Left Side Slope	Z1 =	175.00	ft/ft
Right Side Slope	Z2 =	175.00	ft/ft
Design Discharge	**Q =**	**5,000.00**	**cfs**
Check one of the following soil types			
	Sandy Soil		check, OR
	Non-Sandy Soil	X	check

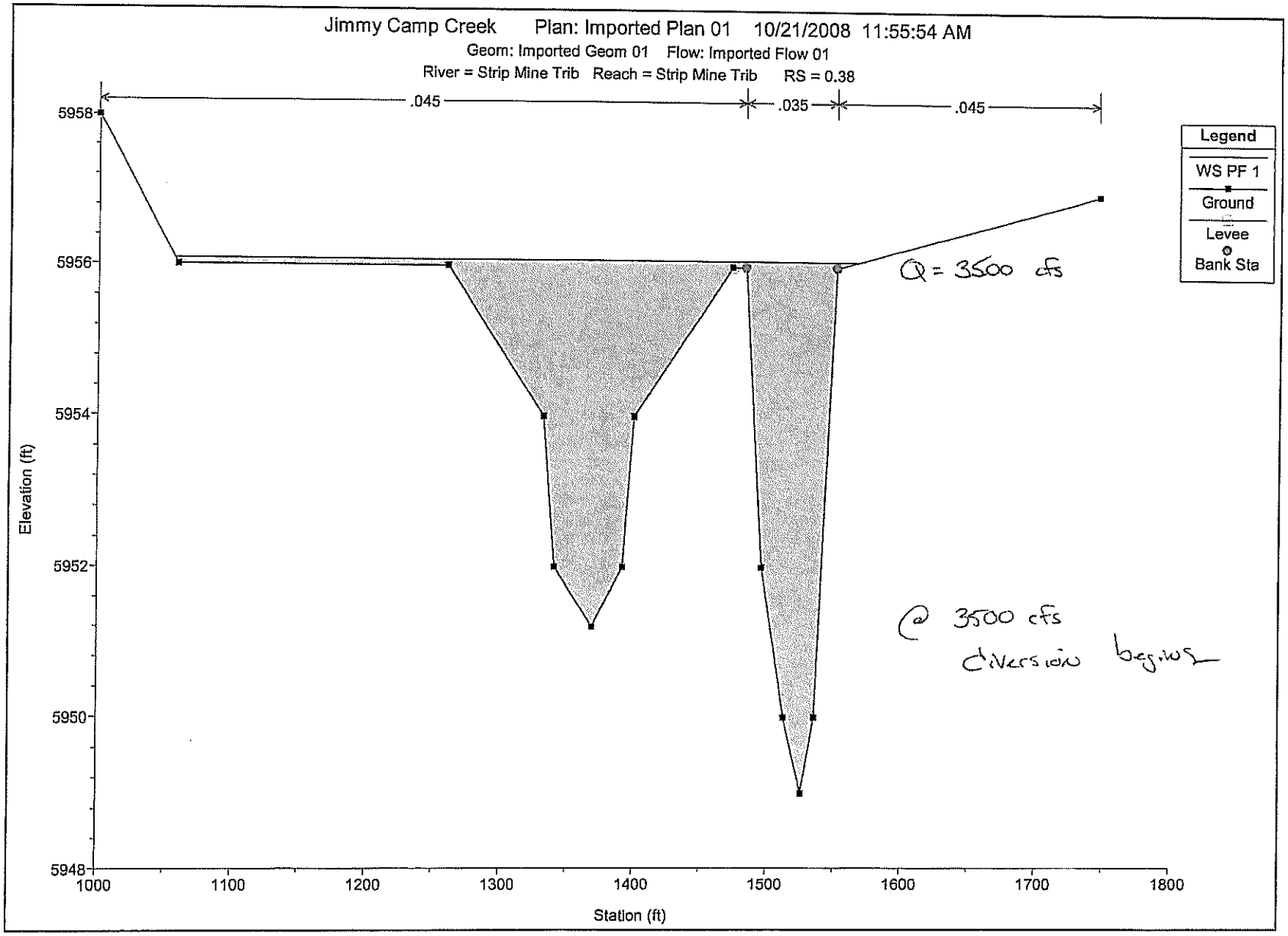
	Flow Condition (Calculated)			
	Water Depth	**Y =**	**0.99**	**ft**
	Top Width	T =	1,046.04	ft
	Flow Area	A =	863.15	sq ft
	Wetted Perimeter	P =	1,046.05	ft
	Hydraulic Radius	R =	0.83	ft
	Flow Velocity	V =	5.79	fps
	Hydraulic Depth	D =	0.83	ft
Warning 04	**Froude Number**	**Fr =**	**1.12**	
	Discharge (Check)	**Q=**	**5,000.27**	**cfs**

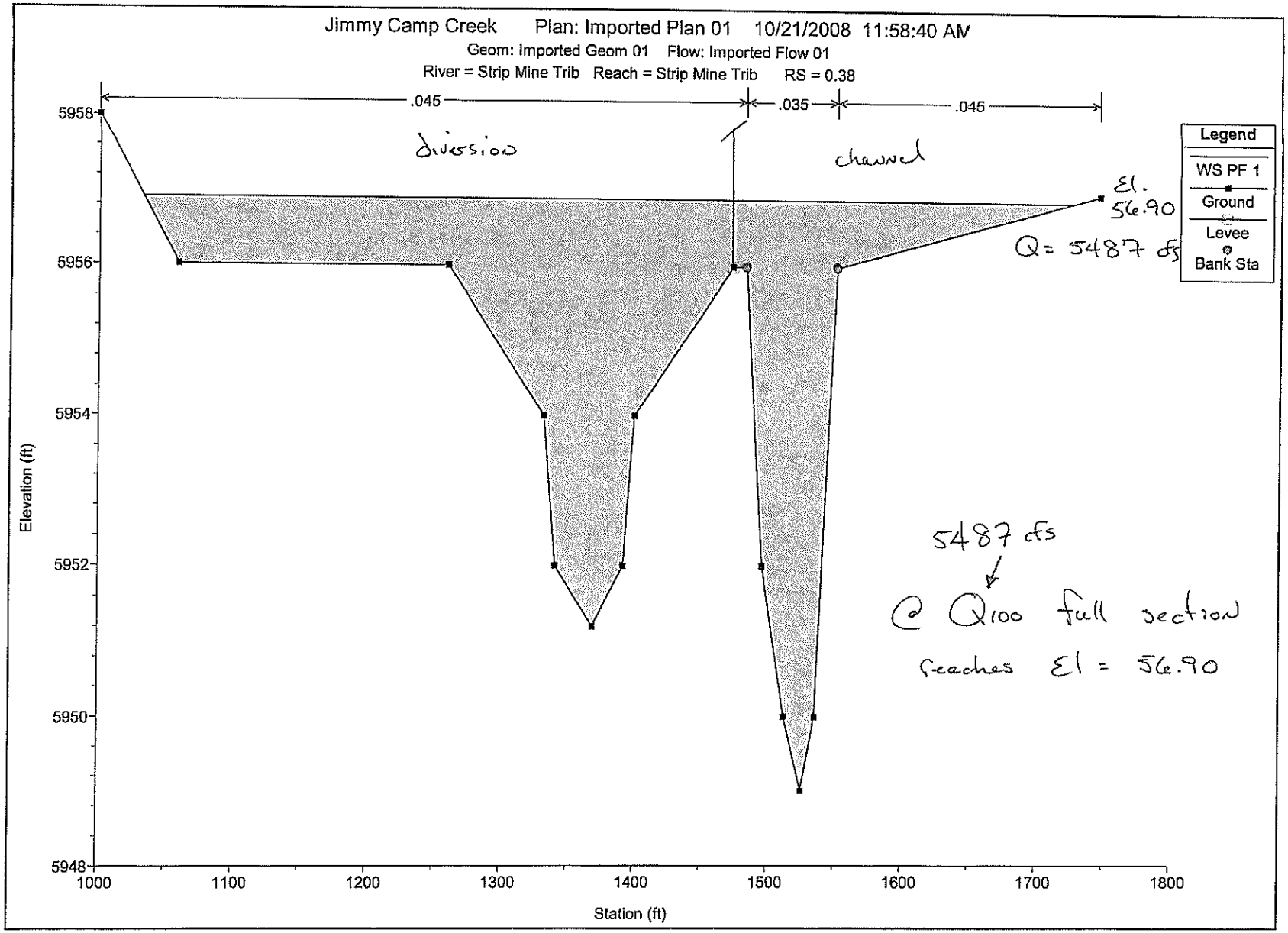
Warning 04: Froude No. exceeds USDCM Criteria Manual Volume II recommendation.

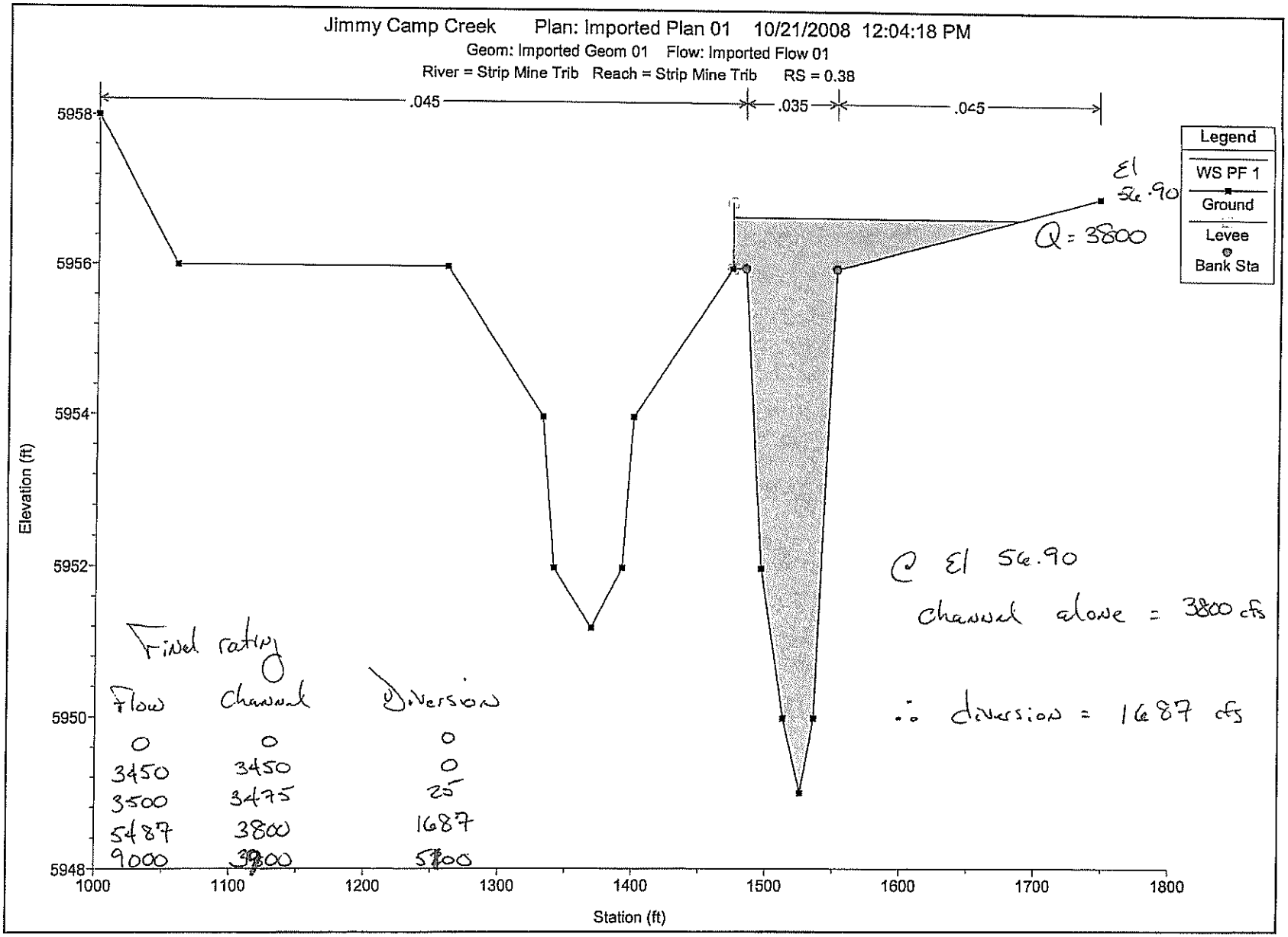
Lower Strip Mine
Split @ 0.38



channel can carry
3450 cfs
w/ Ø cfs diversion


Jimmy Camp Creek Plan: Imported Plan 01 10/21/2008 11:55:54 AM
Geom: Imported Geom 01 Flow: Imported Flow 01
River = Strip Mine Trib Reach = Strip Mine Trib RS = 0.38
.045
.035
.045
Legend
WS PF 1
Ground
Levee
Bank Sta
Q = 3500 cfs
@ 3500 cfs
diversion begins
Elevation (ft)
5958
5956
5954
5952
5950
5948
1000
1100
1200
1300
1400
1500
1600
1700
1800
Station (ft)


Jimmy Camp Creek Plan: Imported Plan 01 10/21/2008 11:58:40 AM
Geom: Imported Geom 01 Flow: Imported Flow 01
River = Strip Mine Trib Reach = Strip Mine Trib RS = 0.38
.045
.035
.045
diversion
channel
El. 56.90
Q = 5487 cfs
Legend
WS PF 1
Ground
Levee
Bank Sta
5487 cfs
@ Q100 full section
reaches El = 56.90
Elevation (ft)
5958
5956
5954
5952
5950
5948
1000
1100
1200
1300
1400
1500
1600
1700
1800
Station (ft)



@ El 56.90
channel alone = 3800 cfs

∴ diversion = 1687 cfs

Final rating

Flow	Channel	Diversion
0	0	0
3450	3450	0
3500	3475	25
5487	3800	1687
9000	3800	5200

100 - YR EXISTING CONDITIONS

HEC-RAS Plan: Revised Profile: 100yr

River	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
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Strip Mine Trib	Strip Mine Trib	2.77	100yr	4455.00	6067.90	6071.35	6070.94	6072.42	0.008576	8.30	536.90	173.17	0.83
Strip Mine Trib	Strip Mine Trib	2.67	100yr	4455.00	6062.40	6065.44	6065.44	6066.43	0.014603	7.96	559.57	289.34	1.01
Strip Mine Trib	Strip Mine Trib	2.57	100yr	4496.00	6055.80	6058.33	6057.88	6058.84	0.007067	5.73	784.54	384.66	0.71
Strip Mine Trib	Strip Mine Trib	2.47	100yr	4496.00	6049.00	6052.51	6052.51	6053.66	0.013891	8.61	523.74	237.16	1.01
Strip Mine Trib	Strip Mine Trib	2.38	100yr	4496.00	6043.40	6047.17	6046.67	6048.04	0.006960	7.52	615.38	231.17	0.75
Strip Mine Trib	Strip Mine Trib	2.27	100yr	4496.00	6037.50	6041.40	6041.37	6043.03	0.012112	10.25	438.56	132.93	0.99
Strip Mine Trib	Strip Mine Trib	2.17	100yr	4496.00	6030.20	6035.67	6035.56	6037.09	0.009542	9.70	496.00	160.17	0.90
Strip Mine Trib	Strip Mine Trib	2.07	100yr	4496.00	6026.60	6031.72	6031.39	6032.82	0.006845	8.66	595.47	248.54	0.77
Strip Mine Trib	Strip Mine Trib	1.97	100yr	4617.00	6021.80	6026.57	6026.57	6028.24	0.012281	10.37	445.32	134.74	1.01
Strip Mine Trib	Strip Mine Trib	1.86	100yr	4617.00	6015.10	6020.58	6020.24	6021.40	0.008227	7.27	637.06	250.88	0.79
Strip Mine Trib	Strip Mine Trib	1.76	100yr	4617.00	6011.00	6015.15	6015.15	6016.53	0.010964	9.50	513.81	216.39	0.95
Strip Mine Trib	Strip Mine Trib	1.66	100yr	4617.00	6005.40	6010.62	6010.62	6011.71	0.006923	9.47	729.62	387.64	0.79
Strip Mine Trib	Strip Mine Trib	1.51	100yr	4617.00	5998.00	6002.31	6002.31	6002.68	0.004567	6.14	1195.27	765.14	0.61
Strip Mine Trib	Strip Mine Trib	1.36	100yr	4617.00	5992.00	5995.22	5994.66	5995.35	0.003249	3.59	1727.82	1287.46	0.47
Strip Mine Trib	Strip Mine Trib	1.26	100yr	4617.00	5987.90	5990.52	5990.52	5991.48	0.020539	8.27	585.08	304.98	1.15
Strip Mine Trib	Strip Mine Trib	1.17	100yr	4627.00	5982.00	5986.42	5985.64	5986.95	0.003999	6.47	889.19	335.47	0.59
Strip Mine Trib	Strip Mine Trib	1.08	100yr	4627.00	5980.30	5982.99	5982.99	5983.78	0.017250	9.25	692.10	411.29	1.11
Strip Mine Trib	Strip Mine Trib	0.98	100yr	4627.00	5976.00	5978.31	5978.31	5978.31	0.000041	0.36	6953.45	1337.53	0.05
Strip Mine Trib	Strip Mine Trib	0.89	100yr	4627.00	5972.00	5976.01	5976.01	5976.02	0.000079	0.70	5525.66	1185.09	0.08
Strip Mine Trib	Strip Mine Trib	0.78	100yr	4627.00	5966.00	5971.68	5971.58	5973.05	0.010550	9.45	504.31	176.24	0.93
Strip Mine Trib	Strip Mine Trib	0.67	100yr	4627.00	5962.00	5966.95	5966.46	5968.05	0.006332	8.75	621.13	236.92	0.75
Strip Mine Trib	Strip Mine Trib	0.57	100yr	4627.00	5957.00	5962.81	5962.68	5964.35	0.008921	10.26	495.99	149.76	0.89
Strip Mine Trib	Strip Mine Trib	0.47	100yr	4627.00	5954.30	5958.65	5958.26	5959.69	0.008525	8.20	564.26	185.90	0.83
Strip Mine Trib	Strip Mine Trib	0.38	100yr	4627.00	5949.00	5956.91	5956.91	5957.32	0.002726	6.69	1264.64	695.67	0.51
Strip Mine Trib	Strip Mine Trib	0.29	100yr	4627.00	5938.60	5949.31	5949.31	5953.03	0.009355	15.62	311.10	47.13	0.95
Strip Mine Trib	Strip Mine Trib	0.19	100yr	4627.00	5931.70	5940.73	5940.72	5943.62	0.010620	13.66	339.38	59.82	1.00
Strip Mine Trib	Strip Mine Trib	0.09	100yr	4627.00	5923.40	5933.92	5933.92	5937.71	0.011652	15.63	296.08	39.53	1.01
Strip Mine Trib	Strip Mine Trib	0.00	100yr	4627.00	5914.20	5926.50	5921.75	5927.16	0.001140	6.76	772.51	97.56	0.37
Marksheffel Trib	Marksheffel Trib	2.61	100yr	1136.00	5852.60	5855.87	5855.63	5856.13	0.007378	6.76	348.27	326.51	0.74
Marksheffel Trib	Marksheffel Trib	2.52	100yr	1136.00	5845.50	5850.14	5850.14	5850.91	0.015461	7.07	161.61	116.80	1.00
Marksheffel Trib	Marksheffel Trib	2.43	100yr	1136.00	5835.90	5840.84	5840.84	5842.34	0.013387	9.83	115.52	39.00	1.01
Marksheffel Trib	Marksheffel Trib	2.33	100yr	1136.00	5829.20	5834.50	5833.55	5835.15	0.005214	6.48	175.29	55.60	0.64
Marksheffel Trib	Marksheffel Trib	2.24	100yr	1136.00	5825.10	5830.12	5829.98	5831.35	0.011697	8.90	127.62	46.12	0.94
Marksheffel Trib	Marksheffel Trib	2.14	100yr	1136.00	5819.00	5823.82	5823.78	5825.20	0.012908	9.43	120.51	42.90	0.99
Marksheffel Trib	Marksheffel Trib	2.05	100yr	1643.00	5813.40	5819.46	5818.78	5820.56	0.007386	8.45	194.35	53.50	0.78
Marksheffel Trib	Marksheffel Trib	1.95	100yr	1643.00	5808.90	5814.11	5814.11	5815.74	0.012793	10.25	160.28	50.09	1.01
Marksheffel Trib	Marksheffel Trib	1.85	100yr	1643.00	5802.90	5808.55	5808.31	5809.96	0.010264	9.51	172.72	51.09	0.91
Marksheffel Trib	Marksheffel Trib	1.76	100yr	1643.00	5799.00	5805.28	5804.18	5806.16	0.005416	7.55	217.73	56.32	0.68
Marksheffel Trib	Marksheffel Trib	1.67	100yr	1643.00	5796.40	5801.09	5800.91	5802.44	0.010549	9.32	177.67	58.84	0.92
Marksheffel Trib	Marksheffel Trib	1.57	100yr	1643.00	5793.00	5798.38	5797.05	5799.05	0.004262	6.59	249.26	66.41	0.60
Marksheffel Trib	Marksheffel Trib	1.46	100yr	1643.00	5790.40	5797.56	5794.72	5797.62	0.001418	4.05	405.26	99.08	0.35
Marksheffel Trib	Marksheffel Trib	1.401	100yr	1643.00	5790.00	5796.29	5793.86	5797.02	0.002257	5.67	239.06	162.48	0.48
Marksheffel Trib	Marksheffel Trib	1.39		Culvert									
Marksheffel Trib	Marksheffel Trib	1.381	100yr	1768.00	5788.00	5792.06	5792.08	5794.12	0.011357	11.48	153.99	61.34	1.01
Marksheffel Trib	Marksheffel Trib	1.27	100yr	1768.00	5784.00	5788.49	5787.80	5788.95	0.005987	5.45	324.13	150.98	0.66
Marksheffel Trib	Marksheffel Trib	1.15	100yr	1768.00	5778.00	5782.41	5782.41	5783.28	0.015194	7.48	236.46	138.24	1.01
Marksheffel Trib	Marksheffel Trib	1.03	100yr	1865.00	5773.10	5776.65	5775.32	5776.88	0.002296	3.81	489.66	190.83	0.42
Marksheffel Trib	Marksheffel Trib	0.90	100yr	1865.00	5767.10	5772.51	5772.51	5773.64	0.013614	8.52	220.05	101.02	0.99
Marksheffel Trib	Marksheffel Trib	0.79	100yr	1865.00	5762.50	5769.72	5768.81	5770.17	0.002732	0.94	452.00	170.52	0.51
Marksheffel Trib	Marksheffel Trib	0.66	100yr	1865.00	5761.40	5766.35	5766.35	5767.27	0.008524	9.76	322.47	180.70	0.85
Marksheffel Trib	Marksheffel Trib	0.56	100yr	1916.00	5753.50	5757.66	5757.29	5758.62	0.008988	8.62	222.22	69.80	0.85
Marksheffel Trib	Marksheffel Trib	0.41	100yr	1916.00	5752.00	5753.06	5752.70	5753.21	0.005186	3.16	605.63	575.22	0.54
Marksheffel Trib	Marksheffel Trib	0.26	100yr	1916.00	5750.00	5752.21	5750.79	5752.28	0.000620	1.77	1081.52	498.13	0.21
Marksheffel Trib	Marksheffel Trib	0.20	100yr	946.00	5744.80	5752.12	5746.94	5752.14	0.000077	1.13	845.54	168.00	0.09
Marksheffel Trib	Marksheffel Trib	0.121	100yr	946.00	5744.00	5751.98	5748.45	5752.05	0.001573	2.38	520.11	477.71	0.32
Marksheffel Trib	Marksheffel Trib	0.12		Culvert									
Marksheffel Trib	Marksheffel Trib	0.119	100yr	946.00	5742.60	5747.02	5747.02	5749.24	0.010952	11.96	79.06	123.30	1.00
Marksheffel Trib	Marksheffel Trib	0.07	100yr	946.00	5739.70	5743.56	5743.56	5744.41	0.015794	7.36	128.52	78.78	1.02
Marksheffel Trib	Marksheffel Trib	0.00	100yr	946.00	5735.30	5743.20	5739.57	5743.29	0.000502	2.40	420.02	149.41	0.21
Lower Strip Mine	Lower Strip Mine	0.85	100yr	387.00	5947.80	5950.02	5949.64	5950.46	0.008000	5.34	72.51	43.66	0.72
Lower Strip Mine	Lower Strip Mine	0.75	100yr	387.00	5942.50	5944.91	5944.77	5945.21	0.013347	4.39	88.19	103.97	0.84
Lower Strip Mine	Lower Strip Mine	0.65	100yr	387.00	5936.00	5937.93	5937.82	5938.29	0.013546	4.82	80.22	83.06	0.87
Lower Strip Mine	Lower Strip Mine	0.53	100yr	387.00	5928.30	5931.55	5931.05	5932.01	0.007135	5.47	70.71	36.83	0.70
Lower Strip Mine	Lower Strip Mine	0.43	100yr	387.00	5923.50	5925.71	5925.71	5926.53	0.015699	7.30	53.04	32.39	1.00
Lower Strip Mine	Lower Strip Mine	0.34	100yr	387.00	5918.00	5921.32	5920.52	5921.65	0.004390	4.60	84.06	39.26	0.55
Lower Strip Mine	Lower Strip Mine	0.23	100yr	387.00	5913.90	5916.57	5916.57	5917.44	0.015619	7.46	51.85	30.44	1.01
Lower Strip Mine	Lower Strip Mine	0.14	100yr	387.00	5905.60	5908.64	5908.10	5909.18	0.007126	5.91	65.53	29.87	0.70
Lower Strip Mine	Lower Strip Mine	0.04	100yr	387.00	5899.70	5903.08	5903.08	5904.05	0.015560	7.89	49.06	26.02	1.01
Lower Strip Mine	Lower Strip Mine	0.00	100yr	387.00	5892.40	5902.70	5894.83	5902.70	0.000010	0.51	760.41	104.99	0.03
Jimmy Camp Creek	Jimmy Camp Creek	23.67	100yr	41.00	6664.50	6665.22	6665.22	6665.40	0.025618	3.42	11.97	33.43	1.01
Jimmy Camp Creek	Jimmy Camp Creek	23.58	100yr	41.00	6650.80	6651.69	6651.63	6652.09	0.016576	3.63	11.31	20.82	0.97
Jimmy Camp Creek	Jimmy Camp Creek	23.47	100yr	116.00	6639.20	6640.73	6640.73	6641.09	0.021064	4.82	24.07	34.66	1.02
Jimmy Camp Creek	Jimmy Camp Creek	23.37	100yr	116.00	6626.00	6627.18	6627.18	6627.48	0.021509	4.38	26.51	44.88	1.00
Jimmy Camp Creek	Jimmy Camp Creek	23.27	100yr	116.00	6609.00	6608.37	6608.37	6609.01	0.018502	6.38	18.17	14.74	1.01
Jimmy Camp Creek	Jimmy Camp Creek	23.18	100yr	546.00	6593.60	6596.24	6596.24	6597.22	0.014878	7.95	68.66	35.31	1.01
Jimmy Camp Creek	Jimmy Camp Creek	23.03	100yr	546.00	6574.00	6577.99	6577.99	6579.00	0.014999	8.07	67.68	33.92	1.01
Jimmy Camp Creek	Jimmy Camp Creek	22.94	100yr	546.00	6569.60	6573.15	6572.70	6573.79	0.007940	6.28	86.90	39.91	0.75
Jimmy Camp Creek	Jimmy Camp Creek	22.87	100yr	546.00	6566.40	6570.14	6569.74	6570.74	0.008669	6.25	87.33	43.08	0.77
Jimmy Camp Creek	Jimmy Camp Creek	22.78	100yr	546.00	6561.81	6564.55	6564.55	6565.39	0.015572	7.38	74.01	44.63	1.01
Jimmy Camp Creek	Jimmy Camp Creek	22.69	100yr	546.00	6547.50	6551.28	6551.28	6552.46	0.014620	8.79	62.14	26.39	1.01
Jimmy Camp Creek	Jimmy Camp Creek	22.58	100yr	546.00	6538.10	6541.07	6540.83	6541.71	0.010044	6.41	85.17	45.33	0.82
Jimmy Camp Creek	Jimmy Camp Creek	22.49	100yr	964.00	6531.80	6535.01	6534.67	6536.02	0.011919	8.06	119.55	51.29	0.93
Jimmy Camp Creek	Jimmy Camp Creek	22.39	100yr	964.00	6525.10	6530.41	6529.71	6531.21	0.006761	7.19	134.06	43.94	0.73
Jimmy Camp Creek	Jimmy Camp Creek	22.30	100yr	964.00	6521.80	6527.04	6526.48	6527.98	0.007060	7.86	129.88	53.74	0.75
Jimmy Camp Creek	Jimmy Camp Creek	22.22	100yr	1108.00	6516.50	6523.33	6523.26	6524.69	0.008665	9.56	130.39	57.55	0.84
Jimmy Camp Creek	Jimmy Camp Creek	22.13	100yr	1108.00	6512.10	6519.16	6518.61	6520.36	0.008678	8.74	126.75	35.83	0.82
Jimmy Camp Creek	Jimmy Camp Creek	22.00	100yr	1282.00	6505.00	6511.56	6511.59	6513.25	0.013124	10.35	123.84	37.62	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.90	100yr	1282.00	6499.50	6505.63	6504.27	6506.38	0.004470	6.92	185.32	46.46	0.61
Jimmy Camp Creek	Jimmy Camp Creek	21.79	100yr	2066.00	6493.50	6499.93	6499.93	6501.87	0.012289	11.19	184.70	48.32	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.70	100yr	2066.00	6489.10	6492.51	6492.51	6493.88	0.013172	9.40	219.86	81.04	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.60	100yr	2066.00	6482.40	6487.13	6486.60	6487.86	0.007041	6.66	301.07	112.00	0.74
Jimmy Camp Creek	Jimmy Camp Creek	21.49	100yr	2066.00	6476.00	6480.62	6480.62	6482.41	0.012372	10.73	192.52	54.52	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.39	100yr	2066.00	6468.80	6473.33	6473.33	6475.05	0.012533	10.51	196.54	58.05	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.29	100yr	2066.00	6462.60	6466.39	6466.20	6467.23	0.009965	7.38	286.77	145.15	0.86

HEC-RAS Plan: Revised Profile: 100yr (Continued)

River	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
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Jimmy Camp Creek	Jimmy Camp Creek	21.19	100yr	2306.00	6457.10	6459.89	6459.89	6460.58	0.016546	6.66	346.44	257.34	1.01
Jimmy Camp Creek	Jimmy Camp Creek	21.07	100yr	2306.00	6448.00	6451.85	6451.27	6452.21	0.005193	5.57	507.23	257.43	0.62
Jimmy Camp Creek	Jimmy Camp Creek	20.96	100yr	2306.00	6442.80	6446.05	6446.05	6447.17	0.014062	8.50	271.30	123.37	1.01
Jimmy Camp Creek	Jimmy Camp Creek	20.83	100yr	2306.00	6435.00	6439.97	6439.28	6440.73	0.006338	7.00	329.46	109.71	0.71
Jimmy Camp Creek	Jimmy Camp Creek	20.73	100yr	2528.00	6430.70	6434.02	6434.02	6436.05	0.012759	9.61	263.09	91.76	1.00
Jimmy Camp Creek	Jimmy Camp Creek	20.63	100yr	2528.00	6425.40	6430.36	6430.36	6431.10	0.006243	8.29	470.79	289.27	0.74
Jimmy Camp Creek	Jimmy Camp Creek	20.54	100yr	2528.00	6421.70	6425.23	6425.23	6425.85	0.011754	8.19	452.52	320.81	0.93
Jimmy Camp Creek	Jimmy Camp Creek	20.43	100yr	2528.00	6413.10	6419.26	6419.28	6420.08	0.006811	8.80	456.82	262.50	0.75
Jimmy Camp Creek	Jimmy Camp Creek	20.33	100yr	2528.00	6405.90	6411.02	6411.02	6412.54	0.011142	9.97	262.33	97.83	0.96
Jimmy Camp Creek	Jimmy Camp Creek	20.23	100yr	2528.00	6399.30	6404.63	6404.63	6406.01	0.012950	9.42	268.28	97.56	1.00
Jimmy Camp Creek	Jimmy Camp Creek	20.12	100yr	2631.00	6384.70	6388.17	6388.17	6389.52	0.013256	9.32	282.16	106.16	1.01
Jimmy Camp Creek	Jimmy Camp Creek	20.03	100yr	2631.00	6378.00	6382.11	6381.64	6383.35	0.008243	8.93	294.47	81.35	0.83
Jimmy Camp Creek	Jimmy Camp Creek	19.93	100yr	2631.00	6372.30	6376.40	6376.40	6377.89	0.012687	9.80	268.46	90.43	1.00
Jimmy Camp Creek	Jimmy Camp Creek	19.81	100yr	2631.00	6364.30	6368.32	6368.32	6369.64	0.012353	9.27	287.88	111.41	0.98
Jimmy Camp Creek	Jimmy Camp Creek	19.70	100yr	2631.00	6352.80	6359.51	6359.51	6361.32	0.012318	10.79	243.66	68.08	1.00
Jimmy Camp Creek	Jimmy Camp Creek	19.61	100yr	2773.00	6341.50	6348.34	6348.35	6348.85	0.002612	4.78	619.27	191.01	0.46
Jimmy Camp Creek	Jimmy Camp Creek	19.52	100yr	4107.00	6338.20	6344.03	6343.98	6345.86	0.011435	10.67	377.61	101.51	0.99
Jimmy Camp Creek	Jimmy Camp Creek	19.42	100yr	4107.00	6331.50	6337.97	6337.91	6339.91	0.011315	11.20	366.84	92.29	0.99
Jimmy Camp Creek	Jimmy Camp Creek	19.32	100yr	4107.00	6326.30	6332.05	6332.05	6333.59	0.012569	9.93	413.46	136.49	1.01
Jimmy Camp Creek	Jimmy Camp Creek	19.22	100yr	4107.00	6320.00	6325.88	6325.00	6326.85	0.006034	7.88	521.26	140.22	0.72
Jimmy Camp Creek	Jimmy Camp Creek	19.12	100yr	4107.00	6314.00	6320.39	6320.21	6322.70	0.010630	12.19	336.89	66.74	0.96
Jimmy Camp Creek	Jimmy Camp Creek	19.04	100yr	4107.00	6309.80	6315.64	6315.64	6317.59	0.011735	11.21	366.53	95.22	1.01
Jimmy Camp Creek	Jimmy Camp Creek	18.94	100yr	4107.00	6305.70	6311.09	6310.60	6312.38	0.008093	9.12	450.17	119.53	0.83
Jimmy Camp Creek	Jimmy Camp Creek	18.84	100yr	4107.00	6301.00	6305.93	6305.84	6307.60	0.011028	10.38	395.84	110.37	0.97
Jimmy Camp Creek	Jimmy Camp Creek	18.75	100yr	4267.00	6293.90	6299.69	6299.69	6301.50	0.012127	10.77	396.11	111.70	1.01
Jimmy Camp Creek	Jimmy Camp Creek	18.65	100yr	4267.00	6288.20	6292.71	6292.44	6293.36	0.009316	8.45	661.21	334.07	0.81
Jimmy Camp Creek	Jimmy Camp Creek	18.55	100yr	4267.00	6282.20	6287.61	6287.24	6288.35	0.009374	6.90	618.15	283.63	0.82
Jimmy Camp Creek	Jimmy Camp Creek	18.45	100yr	4410.00	6274.60	6280.63	6280.63	6282.97	0.011396	11.74	375.50	68.64	1.01
Jimmy Camp Creek	Jimmy Camp Creek	18.36	100yr	4410.00	6266.80	6273.63	6273.63	6274.79	0.009116	9.37	560.83	222.43	0.88
Jimmy Camp Creek	Jimmy Camp Creek	18.26	100yr	4410.00	6255.50	6263.01	6263.01	6265.84	0.011239	13.54	329.51	61.19	0.99
Jimmy Camp Creek	Jimmy Camp Creek	18.17	100yr	4410.00	6247.70	6252.91	6252.91	6254.76	0.011897	10.92	403.85	110.27	1.01
Jimmy Camp Creek	Jimmy Camp Creek	18.07	100yr	4410.00	6240.20	6244.36	6244.36	6245.52	0.012754	8.65	515.89	234.05	0.98
Jimmy Camp Creek	Jimmy Camp Creek	17.97	100yr	4410.00	6233.00	6237.42	6237.16	6238.87	0.009749	9.67	456.20	129.09	0.91
Jimmy Camp Creek	Jimmy Camp Creek	17.87	100yr	4410.00	6226.10	6231.61	6231.61	6233.18	0.012382	10.05	438.86	140.54	1.00
Jimmy Camp Creek	Jimmy Camp Creek	17.77	100yr	4410.00	6220.00	6224.98	6224.79	6226.19	0.010618	8.85	498.20	172.38	0.92
Jimmy Camp Creek	Jimmy Camp Creek	17.67	100yr	4410.00	6211.95	6218.55	6218.55	6220.57	0.011062	11.41	389.71	107.00	0.99
Jimmy Camp Creek	Jimmy Camp Creek	17.57	100yr	4410.00	6205.30	6212.82	6212.82	6214.56	0.007010	11.06	484.49	179.97	0.83
Jimmy Camp Creek	Jimmy Camp Creek	17.47	100yr	4597.00	6199.30	6204.11	6204.11	6205.44	0.013246	9.26	496.49	193.86	1.01
Jimmy Camp Creek	Jimmy Camp Creek	17.38	100yr	4597.00	6191.50	6196.44	6196.44	6198.03	0.012567	10.12	454.21	143.79	1.00
Jimmy Camp Creek	Jimmy Camp Creek	17.26	100yr	4764.00	6185.00	6189.83	6189.83	6191.33	0.011653	9.61	489.91	165.57	0.98
Jimmy Camp Creek	Jimmy Camp Creek	17.19	100yr	4764.00	6179.90	6183.82	6183.71	6185.07	0.011570	8.98	530.53	192.05	0.95
Jimmy Camp Creek	Jimmy Camp Creek	17.09	100yr	4764.00	6174.50	6178.65	6178.65	6179.66	0.009766	8.26	630.63	350.40	0.87
Jimmy Camp Creek	Jimmy Camp Creek	16.99	100yr	4764.00	6167.70	6171.41	6171.40	6172.03	0.010096	7.12	841.79	614.94	0.87
Jimmy Camp Creek	Jimmy Camp Creek	16.89	100yr	4764.00	6161.00	6165.02	6164.96	6165.82	0.013216	7.16	664.97	373.19	0.95
Jimmy Camp Creek	Jimmy Camp Creek	16.78	100yr	4764.00	6152.00	6156.96	6156.96	6158.04	0.014106	8.34	571.18	265.72	1.00
Jimmy Camp Creek	Jimmy Camp Creek	16.695	100yr	5031.00	6146.00	6152.49	6151.09	6153.12	0.003354	6.36	806.60	302.15	0.55
Jimmy Camp Creek	Jimmy Camp Creek	16.69		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	16.685	100yr	5031.00	6144.00	6147.80	6147.80	6149.55	0.012068	10.61	474.30	159.64	1.01
Jimmy Camp Creek	Jimmy Camp Creek	16.56	100yr	5031.00	6136.80	6140.67	6140.37	6141.49	0.009283	7.26	693.22	292.35	0.83
Jimmy Camp Creek	Jimmy Camp Creek	16.46	100yr	5031.00	6130.00	6135.73	6135.73	6136.61	0.009224	8.61	767.98	406.77	0.86
Jimmy Camp Creek	Jimmy Camp Creek	16.36	100yr	5031.00	6124.40	6128.37	6128.37	6129.54	0.010007	8.75	609.33	314.31	0.89
Jimmy Camp Creek	Jimmy Camp Creek	16.25	100yr	5031.00	6117.90	6121.98	6121.83	6123.12	0.010981	8.56	587.95	220.09	0.92
Jimmy Camp Creek	Jimmy Camp Creek	16.15	100yr	5031.00	6112.40	6116.76	6116.76	6117.74	0.008358	8.23	711.17	406.82	0.82
Jimmy Camp Creek	Jimmy Camp Creek	16.04	100yr	5031.00	6106.40	6110.18	6110.18	6111.25	0.014225	8.30	606.12	286.48	1.01
Jimmy Camp Creek	Jimmy Camp Creek	15.95	100yr	5031.00	6101.00	6103.66	6103.61	6104.51	0.013941	7.43	676.91	374.75	0.97
Jimmy Camp Creek	Jimmy Camp Creek	15.86	100yr	5031.00	6095.00	6098.21	6097.91	6099.07	0.009396	7.42	678.30	279.39	0.84
Jimmy Camp Creek	Jimmy Camp Creek	15.77	100yr	5031.00	6089.00	6092.06	6092.06	6093.43	0.013068	9.39	535.68	198.41	1.01
Jimmy Camp Creek	Jimmy Camp Creek	15.64	100yr	5031.00	6079.80	6082.44	6082.44	6083.51	0.013970	8.33	603.73	280.77	1.00
Jimmy Camp Creek	Jimmy Camp Creek	15.55	100yr	5031.00	6072.00	6075.60	6075.25	6076.26	0.008796	6.62	760.47	354.80	0.80
Jimmy Camp Creek	Jimmy Camp Creek	15.45	100yr	5050.00	6065.90	6069.44	6069.43	6070.56	0.013684	8.50	593.81	267.06	1.01
Jimmy Camp Creek	Jimmy Camp Creek	15.36	100yr	5050.00	6061.40	6064.46	6064.09	6065.15	0.008481	6.67	756.91	339.23	0.79
Jimmy Camp Creek	Jimmy Camp Creek	15.26	100yr	5201.00	6055.00	6058.43	6058.43	6059.37	0.015022	7.80	666.73	362.11	1.01
Jimmy Camp Creek	Jimmy Camp Creek	15.17	100yr	5201.00	6049.60	6051.68	6051.52	6052.29	0.009369	5.39	1009.48	630.10	0.77
Jimmy Camp Creek	Jimmy Camp Creek	15.08	100yr	5201.00	6044.00	6046.82	6046.82	6047.61	0.010784	7.99	804.47	483.43	0.90
Jimmy Camp Creek	Jimmy Camp Creek	14.99	100yr	5201.00	6038.20	6041.63	6041.27	6042.19	0.008722	5.99	869.00	468.24	0.77
Jimmy Camp Creek	Jimmy Camp Creek	14.88	100yr	5201.00	6031.10	6034.72	6034.72	6035.69	0.014423	7.69	659.09	341.49	1.00
Jimmy Camp Creek	Jimmy Camp Creek	14.77	100yr	5201.00	6025.00	6028.81	6028.38	6029.36	0.007207	5.05	873.73	411.11	0.72
Jimmy Camp Creek	Jimmy Camp Creek	14.67	100yr	5201.00	6018.90	6023.29	6023.29	6024.44	0.013206	8.60	604.46	257.46	0.99
Jimmy Camp Creek	Jimmy Camp Creek	14.59	100yr	5364.00	6014.00	6018.14	6017.63	6018.93	0.007505	7.11	754.53	280.27	0.76
Jimmy Camp Creek	Jimmy Camp Creek	14.48	100yr	5364.00	6008.20	6012.50	6012.50	6013.84	0.013059	9.29	577.30	217.09	1.00
Jimmy Camp Creek	Jimmy Camp Creek	14.37	100yr	5364.00	6002.30	6006.52	6006.07	6007.35	0.008177	7.35	729.92	275.32	0.80
Jimmy Camp Creek	Jimmy Camp Creek	14.28	100yr	5364.00	5996.60	6000.99	6000.99	6002.12	0.013549	8.53	628.91	276.10	1.00
Jimmy Camp Creek	Jimmy Camp Creek	14.18	100yr	5364.00	5991.00	5996.07	5996.07	5997.13	0.007389	9.45	769.85	329.51	0.81
Jimmy Camp Creek	Jimmy Camp Creek	14.13	100yr	5364.00	5988.00	5992.31	5992.23	5993.36	0.010025	8.26	673.04	334.70	0.88
Jimmy Camp Creek	Jimmy Camp Creek	14.02	100yr	5364.00	5982.40	5986.82	5986.67	5987.53	0.011274	6.79	790.46	426.02	0.88
Jimmy Camp Creek	Jimmy Camp Creek	13.90	100yr	5364.00	5975.90	5980.07	5979.77	5980.81	0.009675	6.90	777.69	365.69	0.83
Jimmy Camp Creek	Jimmy Camp Creek	13.78	100yr	5364.00	5968.80	5972.80	5972.69	5973.51	0.012495	6.75	795.21	468.31	0.91
Jimmy Camp Creek	Jimmy Camp Creek	13.65	100yr	5364.00	5961.20	5965.13	5964.91	5966.19	0.009792	8.24	650.90	236.02	0.87
Jimmy Camp Creek	Jimmy Camp Creek	13.55	100yr	5364.00	5954.20	5958.57	5958.57	5960.19	0.011805	10.19	526.23	159.30	0.99
Jimmy Camp Creek	Jimmy Camp Creek	13.44	100yr	5697.00	5947.20	5952.11	5951.81	5952.97	0.009396	7.45	764.93	313.50	0.84
Jimmy Camp Creek	Jimmy Camp Creek	13.35	100yr	5697.00	5941.60	5946.46	5946.32	5947.83	0.010600	9.39	606.67	190.20	0.93
Jimmy Camp Creek	Jimmy Camp Creek	13.26	100yr	5697.00	5937.30	5941.34	5941.34	5942.51	0.013613	8.68	656.03	281.06	1.00
Jimmy Camp Creek	Jimmy Camp Creek	13.16	100yr	5697.00	5930.20	5934.81	5934.25	5935.55	0.006958	6.90	625.42	302.14	0.74
Jimmy Camp Creek	Jimmy Camp Creek	13.04	100yr	5697.00	5923.00	5928.22	5928.22	5929.76	0.012185	10.01	569.41	181.47	1.00
Jimmy Camp Creek	Jimmy Camp Creek	12.93	100yr	5697.00	5916.50	5921.59	5920.54	5922.76	0.005415	8.74	651.46	135.11	0.70
Jimmy Camp Creek	Jimmy Camp Creek	12.83	100yr	5697.00	5910.60	5916.31	5915.31	5918.88	0.010760	12.85	443.21	84.78	0.99
Jimmy Camp Creek	Jimmy Camp Creek	12.74	100yr	5697.00	5904.80	5909.40	5909.40	5911.40	0.011179	11.35	502.03	123.23	0.99
Jimmy Camp Creek	Jimmy Camp Creek	12.64	100yr	5755.00	5899.90	5903.59	5903.59	5904.62	0.014166	8.15	706.39	343.94	1.00
Jimmy Camp Creek	Jimmy Camp Creek	12.54	100yr	5755.00	5893.20	5896.54	5895.89	5896.95	0.005067	5.16	1116.01	499.63	0.61
Jimmy Camp Creek	Jimmy Camp Creek	12.40	100yr	5755.00	5883.40	5889.98	5889.98	5891.25	0.013290	9.06	634.95	248.91	1.00
Jimmy Camp Creek	Jimmy Camp Creek	12.29	100yr	5755.00	5876.70	5882.23	5882.23	5884.05	0.012041	10.83	531.42	147.41	1.01
Jimmy Camp Creek	Jimmy Camp Creek	12.18	100yr	5755.00	5870.70	5876.79	5875.44	5877.47	0.003826	6.61	870.50	214.99	0.58
Jimmy Camp Creek	Jimmy Camp Creek	12.08	100yr	5755.00	5865.30	5873.96	5872.36	5875.25	0.004718	9.11	631.88	112.62	0.68
Jimmy Camp Creek	Jimmy Camp Creek	11.073	100yr	5755.00	5862.00	5874.17	5869.63	5874.24	0.000520	3.14	3465.11	1714.56	0.23

HEC-RAS Plan: Revised Profile: 100yr (Continued)

River	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
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Jimmy Camp Creek	Jimmy Camp Creek	11.97		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	11.967	100yr	5755.00	5860.00	5867.96	5867.96	5871.33	0.009299	14.73	390.58	90.04	0.99
Jimmy Camp Creek	Jimmy Camp Creek	11.88	100yr	5755.00	5855.30	5862.48	5862.48	5864.92	0.010635	12.52	459.82	93.42	0.99
Jimmy Camp Creek	Jimmy Camp Creek	11.78	100yr	5755.00	5849.40	5857.55	5856.86	5858.95	0.007108	9.52	604.48	136.53	0.80
Jimmy Camp Creek	Jimmy Camp Creek	11.68	100yr	5755.00	5844.60	5852.36	5852.34	5854.13	0.011275	10.66	539.62	146.79	0.98
Jimmy Camp Creek	Jimmy Camp Creek	11.57	100yr	5755.00	5839.60	5846.05	5846.05	5848.13	0.010979	11.58	497.74	117.20	0.99
Jimmy Camp Creek	Jimmy Camp Creek	11.46	100yr	5755.00	5834.30	5841.85	5839.48	5842.46	0.002356	6.24	922.97	173.24	0.48
Jimmy Camp Creek	Jimmy Camp Creek	11.38	100yr	5755.00	5830.90	5837.78	5837.78	5840.49	0.011020	13.19	436.21	80.83	1.00
Jimmy Camp Creek	Jimmy Camp Creek	11.28	100yr	5755.00	5827.30	5833.09	5831.92	5833.61	0.002986	6.33	1158.74	363.84	0.53
Jimmy Camp Creek	Jimmy Camp Creek	11.16	100yr	15382.00	5823.00	5828.00	5828.00	5829.76	0.010736	11.76	1642.27	502.37	0.99
Jimmy Camp Creek	Jimmy Camp Creek	11.04	100yr	15382.00	5817.90	5823.42	5822.45	5824.38	0.005105	8.32	2067.63	492.20	0.69
Jimmy Camp Creek	Jimmy Camp Creek	10.93	100yr	15382.00	5811.70	5818.16	5818.16	5820.21	0.011462	11.50	1337.96	334.90	1.00
Jimmy Camp Creek	Jimmy Camp Creek	10.83	100yr	15382.00	5806.10	5813.45	5812.58	5814.28	0.004363	8.61	2477.41	545.53	0.65
Jimmy Camp Creek	Jimmy Camp Creek	10.70	100yr	15382.00	5801.00	5810.67	5808.32	5811.97	0.003035	9.21	1726.29	246.28	0.58
Jimmy Camp Creek	Jimmy Camp Creek	10.61	100yr	15382.00	5797.90	5805.85	5805.85	5809.18	0.009945	14.65	1049.70	158.84	1.00
Jimmy Camp Creek	Jimmy Camp Creek	10.51	100yr	15382.00	5793.50	5799.23	5799.23	5801.47	0.010533	12.03	1296.53	312.30	0.99
Jimmy Camp Creek	Jimmy Camp Creek	10.41	100yr	15382.00	5789.90	5794.19	5793.86	5795.54	0.008830	9.32	1651.53	467.98	0.87
Jimmy Camp Creek	Jimmy Camp Creek	10.286	100yr	16502.00	5782.00	5788.35	5788.13	5790.16	0.009193	11.11	1585.46	578.16	0.92
Jimmy Camp Creek	Jimmy Camp Creek	10.280		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	10.274	100yr	16502.00	5776.00	5786.29	5786.29	5788.43	0.008517	12.30	1566.61	713.24	0.92
Jimmy Camp Creek	Jimmy Camp Creek	10.20	100yr	16502.00	5775.80	5782.51	5782.51	5783.05	0.005290	6.90	2917.03	862.97	0.66
Jimmy Camp Creek	Jimmy Camp Creek	10.10	100yr	16502.00	5772.40	5777.13	5773.77	5777.31	0.001492	4.27	5043.23	1225.15	0.36
Jimmy Camp Creek	Jimmy Camp Creek	9.96	100yr	16502.00	5767.20	5774.88	5774.28	5775.84	0.006175	9.22	2396.77	864.90	0.76
Jimmy Camp Creek	Jimmy Camp Creek	9.86	100yr	16502.00	5762.70	5769.88	5769.88	5772.02	0.009503	11.86	1477.02	401.56	0.95
Jimmy Camp Creek	Jimmy Camp Creek	9.79	100yr	16502.00	5758.20	5765.63	5765.26	5767.08	0.008105	9.70	1744.40	486.75	0.85
Jimmy Camp Creek	Jimmy Camp Creek	9.69	100yr	16502.00	5754.00	5760.86	5760.48	5762.63	0.008610	10.67	1547.02	346.17	0.89
Jimmy Camp Creek	Jimmy Camp Creek	9.59	100yr	16502.00	5750.60	5756.56	5756.16	5758.18	0.008491	10.24	1611.41	377.50	0.87
Jimmy Camp Creek	Jimmy Camp Creek	9.49	100yr	16502.00	5746.40	5751.44	5751.39	5753.03	0.011606	10.10	1633.87	490.85	0.98
Jimmy Camp Creek	Jimmy Camp Creek	9.36	100yr	16502.00	5741.10	5747.47	5740.94	5748.56	0.005653	9.11	2242.31	626.53	0.73
Jimmy Camp Creek	Jimmy Camp Creek	9.26	100yr	16502.00	5735.00	5743.17	5743.03	5744.23	0.008063	8.77	2335.84	1041.33	0.83
Jimmy Camp Creek	Jimmy Camp Creek	9.16	100yr	17361.00	5731.70	5740.86	5740.31	5741.83	0.004313	9.42	2904.56	886.49	0.66
Jimmy Camp Creek	Jimmy Camp Creek	9.06	100yr	17361.00	5728.20	5736.06	5735.64	5738.20	0.007544	11.78	1636.67	658.69	0.87
Jimmy Camp Creek	Jimmy Camp Creek	8.89	100yr	17361.00	5723.50	5731.16	5730.39	5732.51	0.005624	9.42	2015.86	632.80	0.73
Jimmy Camp Creek	Jimmy Camp Creek	8.79	100yr	17361.00	5720.20	5728.73	5728.73	5729.66	0.004453	10.03	3486.53	1510.77	0.68
Jimmy Camp Creek	Jimmy Camp Creek	8.69	100yr	17361.00	5717.80	5725.15	5724.66	5725.96	0.004178	9.04	3296.52	1282.61	0.65
Jimmy Camp Creek	Jimmy Camp Creek	8.59	100yr	17361.00	5715.10	5721.72	5721.72	5723.08	0.006368	10.05	2419.18	1135.52	0.78
Jimmy Camp Creek	Jimmy Camp Creek	8.46	100yr	17361.00	5710.90	5718.84	5717.54	5719.56	0.002549	7.46	3329.65	1054.01	0.52
Jimmy Camp Creek	Jimmy Camp Creek	8.36	100yr	17361.00	5707.60	5715.77	5715.77	5717.29	0.007404	10.66	2117.39	718.60	0.84
Jimmy Camp Creek	Jimmy Camp Creek	8.27	100yr	17361.00	5703.90	5710.52	5710.48	5711.81	0.011195	9.14	1975.99	853.48	0.95
Jimmy Camp Creek	Jimmy Camp Creek	8.15	100yr	17361.00	5701.00	5709.01	5708.01	5709.28	0.003154	5.32	4780.66	1933.56	0.51
Jimmy Camp Creek	Jimmy Camp Creek	8.06	100yr	17361.00	5695.50	5703.33	5702.17	5703.56	0.003100	4.63	4831.72	1918.36	0.49
Jimmy Camp Creek	Jimmy Camp Creek	7.66	100yr	17361.00	5694.80	5698.62	5698.01	5699.23	0.005961	6.26	2801.35	1161.45	0.68
Jimmy Camp Creek	Jimmy Camp Creek	7.59	100yr	17361.00	5688.30	5693.96	5693.48	5694.30	0.005220	6.77	4650.67	2573.07	0.66
Jimmy Camp Creek	Jimmy Camp Creek	7.53	100yr	17361.00	5683.00	5689.89	5689.37	5690.29	0.004395	6.28	4452.71	2388.61	0.61
Jimmy Camp Creek	Jimmy Camp Creek	7.40	100yr	17361.00	5679.20	5686.98	5686.98	5687.72	0.005793	8.98	3711.56	2310.14	0.73
Jimmy Camp Creek	Jimmy Camp Creek	7.20	100yr	17361.00	5676.30	5682.57	5679.74	5682.66	0.000911	2.96	7453.81	1974.19	0.28
Jimmy Camp Creek	Jimmy Camp Creek	7.19	100yr	17361.00	5674.00	5680.97	5680.10	5681.58	0.007684	6.96	2845.21	1031.25	0.77
Jimmy Camp Creek	Jimmy Camp Creek	7.08	100yr	17361.00	5671.20	5677.97	5676.78	5678.21	0.003298	4.99	4643.29	1651.56	0.51
Jimmy Camp Creek	Jimmy Camp Creek	6.98	100yr	17361.00	5668.90	5676.47	5675.10	5676.71	0.002179	6.26	5594.05	1967.15	0.46
Jimmy Camp Creek	Jimmy Camp Creek	6.86	100yr	17361.00	5666.70	5673.99	5673.99	5674.75	0.008216	11.64	3649.77	2011.08	0.89
Jimmy Camp Creek	Jimmy Camp Creek	6.783	100yr	17361.00	5664.00	5671.96	5670.58	5672.20	0.001612	5.60	6238.41	2761.17	0.40
Jimmy Camp Creek	Jimmy Camp Creek	6.778		Culvert									
Jimmy Camp Creek	Jimmy Camp Creek	6.775	100yr	17361.00	5664.00	5671.73	5670.57	5672.11	0.002326	5.95	5256.00	2340.38	0.47
Jimmy Camp Creek	Jimmy Camp Creek	6.66	100yr	17361.00	5661.00	5671.16	5667.96	5671.32	0.001046	4.50	8090.26	2869.83	0.33
Jimmy Camp Creek	Jimmy Camp Creek	6.52	100yr	21784.00	5656.00	5665.63	5665.63	5668.58	0.016476	15.02	2293.90	1039.02	1.24
Jimmy Camp Creek	Jimmy Camp Creek	6.40	100yr	21784.00	5656.30	5663.43	5661.70	5663.60	0.001906	4.39	7749.95	2439.96	0.40
Jimmy Camp Creek	Jimmy Camp Creek	6.22	100yr	21784.00	5652.20	5660.34	5658.91	5660.93	0.005260	6.70	5341.33	2373.48	0.70
Jimmy Camp Creek	Jimmy Camp Creek	6.09	100yr	21784.00	5649.00	5657.63	5655.85	5658.30	0.003551	6.66	5058.65	1674.04	0.60
Jimmy Camp Creek	Jimmy Camp Creek	5.97	100yr	21784.00	5646.80	5654.16	5653.88	5655.24	0.009471	10.75	3554.14	1544.34	0.92
Jimmy Camp Creek	Jimmy Camp Creek	5.84	100yr	21784.00	5643.90	5652.35	5649.89	5652.76	0.001518	6.10	6172.67	1841.06	0.40
Jimmy Camp Creek	Jimmy Camp Creek	5.61	100yr	21784.00	5638.00	5646.44	5648.44	5649.89	0.004430	11.09	3680.28	1415.92	0.69
Jimmy Camp Creek	Jimmy Camp Creek	5.50	100yr	21784.00	5635.10	5642.27	5642.27	5644.82	0.010548	12.82	1701.98	358.90	1.00
Jimmy Camp Creek	Jimmy Camp Creek	5.37	100yr	21784.00	5632.00	5639.02	5637.76	5640.67	0.002735	7.92	2933.40	505.38	0.54
Jimmy Camp Creek	Jimmy Camp Creek	5.25	100yr	21784.00	5626.50	5634.93	5634.93	5637.74	0.010254	13.47	1618.45	303.19	1.01
Jimmy Camp Creek	Jimmy Camp Creek	5.15	100yr	21784.00	5623.90	5632.04	5628.48	5632.32	0.001645	5.48	5537.01	949.31	0.40
Jimmy Camp Creek	Jimmy Camp Creek	4.95	100yr	21784.00	5619.80	5629.23	5627.98	5630.26	0.003213	9.12	3578.36	849.76	0.59
Jimmy Camp Creek	Jimmy Camp Creek	4.84	100yr	21784.00	5617.90	5627.33	5625.48	5628.46	0.003094	9.50	3129.22	627.72	0.59
Jimmy Camp Creek	Jimmy Camp Creek	4.73	100yr	21878.00	5615.90	5623.84	5623.54	5625.93	0.006530	12.47	2358.07	590.40	0.83
Jimmy Camp Creek	Jimmy Camp Creek	4.63	100yr	21878.00	5613.90	5621.56	5619.82	5622.95	0.003754	9.60	2580.89	550.20	0.63
Jimmy Camp Creek	Jimmy Camp Creek	4.51	100yr	21878.00	5609.60	5616.71	5616.71	5619.31	0.009575	13.15	1800.45	402.86	0.98
Jimmy Camp Creek	Jimmy Camp Creek	4.40	100yr	21878.00	5606.50	5614.46	5613.41	5615.30	0.003701	7.93	3570.66	954.49	0.60
Jimmy Camp Creek	Jimmy Camp Creek	4.31	100yr	21878.00	5604.00	5612.18	5610.75	5613.47	0.004039	9.36	2667.12	552.06	0.65
Jimmy Camp Creek	Jimmy Camp Creek	4.22	100yr	21878.00	5600.80	5610.30	5609.36	5611.52	0.004232	10.75	3385.60	739.64	0.66
Jimmy Camp Creek	Jimmy Camp Creek	4.03	100yr	21878.00	5591.80	5605.30	5605.30	5607.16	0.005730	12.06	2748.73	924.20	0.78
Jimmy Camp Creek	Jimmy Camp Creek	3.83	100yr	21878.00	5590.90	5598.55	5596.72	5599.70	0.003510	8.65	2579.91	420.85	0.60
Jimmy Camp Creek	Jimmy Camp Creek	3.71	100yr	21878.00	5587.75	5598.00	5593.35	5598.47	0.000930	5.60	4291.25	639.67	0.33
Jimmy Camp Creek	Jimmy Camp Creek	3.460	100yr	22094.00	5584.00	5593.11	5592.26	5595.81	0.006876	14.42	1926.46	815.06	0.88
Jimmy Camp Creek	Jimmy Camp Creek	3.453		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	3.446	100yr	22094.00	5576.00	5592.21	5589.59	5593.90	0.003103	10.59	2233.32	656.40	0.60
Jimmy Camp Creek	Jimmy Camp Creek	3.37	100yr	22094.00	5574.70	5589.44	5589.44	5592.04	0.007477	17.61	2702.40	469.69	0.92
Jimmy Camp Creek	Jimmy Camp Creek	3.27	100yr	22094.00	5573.00	5585.42	5585.42	5588.00	0.007079	14.46	2452.89	543.67	0.89
Jimmy Camp Creek	Jimmy Camp Creek	3.18	100yr	22094.00	5570.90	5581.26	5581.26	5584.06	0.007605	15.45	2394.88	493.23	0.93
Jimmy Camp Creek	Jimmy Camp Creek	3.06	100yr	22094.00	5567.40	5577.83	5576.26	5579.00	0.004060	10.72	3387.50	554.21	0.67
Jimmy Camp Creek	Jimmy Camp Creek	2.90	100yr	22094.00	5564.20	5573.72	5572.33	5575.08	0.005159	11.13	2963.71	582.48	0.74
Jimmy Camp Creek	Jimmy Camp Creek	2.74	100yr	22094.00	5559.90	5569.56	5568.70	5570.69	0.006046	12.43	3169.07	646.66	0.81
Jimmy Camp Creek	Jimmy Camp Creek	2.52	100yr	22094.00	5554.30	5563.70	5562.50	5565.15	0.004765	9.71	2429.63	573.22	0.70
Jimmy Camp Creek	Jimmy Camp Creek	2.36	100yr	22094.00	5551.10	5559.52	5558.71	5561.07	0.005392	10.25	2438.76	527.22	0.74
Jimmy Camp Creek	Jimmy Camp Creek	2.23	100yr	22094.00	5547.20	5557.16	5553.94	5558.11	0.003007	9.60	3907.93	802.69	0.58
Jimmy Camp Creek	Jimmy Camp Creek	2.11	100yr	22094.00	5543.60	5553.42	5553.42	5555.30	0.006887	12.85	3053.77	1069.53	0.86
Jimmy Camp Creek	Jimmy Camp Creek	2.00	100yr	22094.00	5540.80	5549.51	5548.44	5550.40	0.004032	8.48	3492.12	825.80	0.63
Jimmy Camp Creek	Jimmy Camp Creek	1.84	100yr	22094.00	5536.20	5547.08	5545.78	5547.83	0.002728	7.70	4218.21	1166.52	0.53
Jimmy Camp Creek	Jimmy Camp Creek	1.70	100yr	22094.00	5532.80	5544.23	5544.23	5545.52	0.004706	11.92	4255.76	1484.81	0.73
Jimmy Camp Creek	Jimmy Camp Creek	1.60	100yr	22094.00	5530.80	5541.60	5539.33	5542.02	0.001494	5.76	5598.42	1490.41	0.40
Jimmy Camp Creek	Jimmy Camp Creek	1.521	100yr	22094.00	5530.00	5539.62	5537.78	5541.05	0.004774	11.07	2685.67	916.87	0.65

HEC-RAS Plan: Revised Profile: 100yr (Continued)

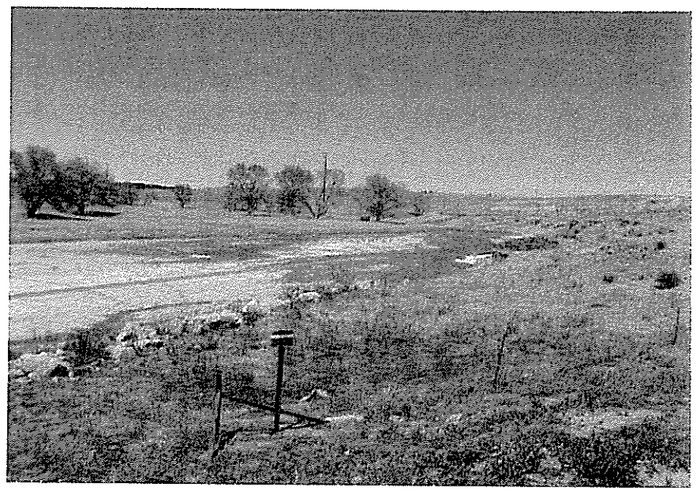
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Jimmy Camp Creek	Jimmy Camp Creek	1.515		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	1.509	100yr	22094.00	5530.00	5537.04	5536.02	5538.72	0.007168	10.57	2156.47	965.82	0.75
Jimmy Camp Creek	Jimmy Camp Creek	1.42	100yr	22094.00	5526.70	5535.04	5534.32	5535.98	0.005025	8.40	3464.75	1071.65	0.62
Jimmy Camp Creek	Jimmy Camp Creek	1.33	100yr	22094.00	5524.60	5533.69	5532.02	5534.22	0.002586	6.53	4587.92	1209.25	0.45
Jimmy Camp Creek	Jimmy Camp Creek	1.22	100yr	22094.00	5522.00	5532.59	5530.22	5533.11	0.001991	6.62	4901.09	1171.62	0.41
Jimmy Camp Creek	Jimmy Camp Creek	1.12	100yr	22094.00	5518.90	5532.21	5528.45	5532.48	0.000790	5.17	6846.33	1208.00	0.27
Jimmy Camp Creek	Jimmy Camp Creek	1.027	100yr	22094.00	5518.00	5529.68	5527.49	5531.73	0.004713	12.70	2258.90	1039.54	0.67
Jimmy Camp Creek	Jimmy Camp Creek	1.026		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	1.025	100yr	22094.00	5518.00	5525.47	5525.35	5528.70	0.011378	14.60	1570.18	725.50	0.97
Jimmy Camp Creek	Jimmy Camp Creek	0.88	100yr	22094.00	5513.40	5523.03	5521.61	5523.77	0.003518	8.88	4176.92	909.97	0.55
Jimmy Camp Creek	Jimmy Camp Creek	0.74	100yr	22094.00	5510.00	5517.78	5517.63	5519.50	0.010115	10.79	2472.77	883.19	0.88
Jimmy Camp Creek	Jimmy Camp Creek	0.51	100yr	22094.00	5500.50	5512.78	5511.79	5513.43	0.003136	8.21	4840.97	1403.22	0.52
Jimmy Camp Creek	Jimmy Camp Creek	0.32	100yr	22094.00	5493.90	5509.17	5509.17	5510.54	0.003467	12.19	4978.83	1588.98	0.65
Jimmy Camp Creek	Jimmy Camp Creek	0.20	100yr	22094.00	5492.00	5505.69	5504.41	5506.65	0.002080	9.50	4806.11	1041.23	0.50
Jimmy Camp Creek	Jimmy Camp Creek	0.147	100yr	22094.00	5490.00	5504.46	5500.61	5505.71	0.002265	11.56	3250.21	900.39	0.55
Jimmy Camp Creek	Jimmy Camp Creek	0.143		Bridge									
Jimmy Camp Creek	Jimmy Camp Creek	0.139	100yr	22094.00	5490.00	5501.02	5501.02	5504.29	0.007670	17.89	2135.66	1282.46	0.97
Jimmy Camp Creek	Jimmy Camp Creek	0.10	100yr	22094.00	5487.50	5501.05	5498.13	5501.49	0.001273	6.82	6402.19	1280.65	0.39
Jimmy Camp Creek	Jimmy Camp Creek	0	100yr	22094.00	5485.50	5499.50	5497.89	5500.51	0.002665	10.19	4226.44	757.25	0.56
Franceville Trib	Franceville Trib	3.73	100yr	1266.00	5998.00	5999.93	5999.21	6000.02	0.002502	2.31	547.57	481.95	0.38
Franceville Trib	Franceville Trib	3.64	100yr	1266.00	5997.00	5998.75	5998.15	5998.82	0.002512	2.21	572.14	539.50	0.38
Franceville Trib	Franceville Trib	3.53	100yr	1371.00	5994.00	5997.12	5996.60	5997.31	0.002964	3.93	515.15	497.66	0.46
Franceville Trib	Franceville Trib	3.42	100yr	1371.00	5990.80	5994.55	5993.93	5994.96	0.005603	5.18	278.38	189.24	0.64
Franceville Trib	Franceville Trib	3.33	100yr	1371.00	5985.50	5989.63	5989.63	5990.57	0.014955	7.80	175.81	95.09	1.01
Franceville Trib	Franceville Trib	3.23	100yr	1371.00	5982.00	5984.64	5984.05	5984.85	0.004042	3.75	377.90	272.22	0.52
Franceville Trib	Franceville Trib	3.11	100yr	1371.00	5978.00	5979.58	5979.58	5980.00	0.019397	5.20	263.52	319.24	1.01
Franceville Trib	Franceville Trib	3.01	100yr	1371.00	5966.00	5970.12	5969.85	5970.77	0.009536	6.45	213.90	135.18	0.81
Franceville Trib	Franceville Trib	2.90	100yr	1371.00	5963.00	5963.98	5963.90	5964.14	0.014707	3.21	427.45	869.32	0.81
Franceville Trib	Franceville Trib	2.79	100yr	1442.00	5956.00	5958.16	5957.81	5958.41	0.006970	4.01	360.77	313.15	0.64
Franceville Trib	Franceville Trib	2.69	100yr	1442.00	5947.00	5951.99	5951.99	5953.24	0.013821	8.97	160.76	65.83	1.01
Franceville Trib	Franceville Trib	2.58	100yr	1442.00	5940.50	5945.39	5945.25	5946.62	0.008386	9.09	160.77	64.14	0.84
Franceville Trib	Franceville Trib	2.48	100yr	1442.00	5938.00	5940.64	5940.64	5941.19	0.010905	6.19	276.52	317.03	0.65
Franceville Trib	Franceville Trib	2.35	100yr	1442.00	5930.00	5934.20	5933.07	5934.37	0.002650	3.33	463.10	420.94	0.43
Franceville Trib	Franceville Trib	2.25	100yr	1515.00	5930.00	5930.78	5930.78	5931.16	0.020681	4.91	308.54	427.75	1.02
Franceville Trib	Franceville Trib	2.15	100yr	1515.00	5918.50	5923.68	5923.68	5924.73	0.007154	6.39	278.14	189.47	0.76
Franceville Trib	Franceville Trib	2.05	100yr	1515.00	5913.90	5917.37	5917.08	5917.94	0.006817	6.35	265.92	191.52	0.72
Franceville Trib	Franceville Trib	1.94	100yr	1515.00	5909.10	5912.22	5912.12	5912.85	0.012815	6.38	239.29	173.81	0.91
Franceville Trib	Franceville Trib	1.83	100yr	1515.00	5901.60	5905.62	5905.33	5906.37	0.010140	6.95	217.99	104.54	0.85
Franceville Trib	Franceville Trib	1.72	100yr	1515.00	5897.10	5899.29	5899.12	5899.66	0.011922	4.89	309.93	286.19	0.83
Franceville Trib	Franceville Trib	0.51	100yr	1515.00	5894.00	5896.15	5895.58	5896.29	0.003743	2.95	516.36	466.08	0.47
Franceville Trib	Franceville Trib	0.40	100yr	523.00	5893.00	5894.43	5893.90	5894.47	0.001070	1.65	327.32	406.36	0.30
Franceville Trib	Franceville Trib	0.28	100yr	523.00	5891.90	5893.40	5892.73	5893.45	0.001757	1.69	309.76	335.27	0.31
Franceville Trib	Franceville Trib	0.19	100yr	523.00	5890.00	5891.08	5891.08	5891.35	0.022422	4.21	124.32	230.94	1.01
Franceville Trib	Franceville Trib	0.08	100yr	523.00	5888.60	5872.93	5872.11	5873.62	0.006194	6.66	78.55	25.41	0.67
Franceville Trib	Franceville Trib	0.00	100yr	523.00	5859.50	5873.40	5861.79	5873.40	0.000005	0.48	1118.92	109.83	0.02
Franceville Lowe	FrancevilleLower	1.37	100yr	1103.00	5887.70	5888.74	5888.46	5888.82	0.005790	2.22	495.84	867.79	0.52
Franceville Lowe	FrancevilleLower	1.30	100yr	1103.00	5884.00	5884.70	5884.70	5884.92	0.024218	3.71	297.48	707.58	1.01
Franceville Lowe	FrancevilleLower	1.20	100yr	1103.00	5879.00	5880.09	5879.74	5880.13	0.003047	1.62	680.21	1181.66	0.38
Franceville Lowe	FrancevilleLower	1.11	100yr	1174.00	5876.00	5876.33	5876.33	5876.48	0.026688	3.15	372.53	1216.25	1.00
Franceville Lowe	FrancevilleLower	0.98	100yr	1174.00	5862.00	5864.11	5864.11	5864.71	0.016593	6.19	189.60	157.09	0.99
Franceville Lowe	FrancevilleLower	0.85	100yr	1174.00	5854.00	5857.05	5856.80	5857.75	0.009972	6.71	175.01	87.55	0.84
Franceville Lowe	FrancevilleLower	0.81	100yr	1174.00	5850.00	5852.71	5852.71	5853.50	0.015107	7.12	164.82	102.81	0.99
Franceville Lowe	FrancevilleLower	0.72	100yr	1174.00	5841.10	5845.43	5844.50	5846.07	0.005046	6.43	182.56	57.35	0.64
Franceville Lowe	FrancevilleLower	0.58	100yr	1207.00	5836.00	5839.15	5839.15	5840.19	0.013568	8.19	147.37	68.62	0.98
Franceville Lowe	FrancevilleLower	0.48	100yr	1207.00	5828.20	5832.01	5832.20	5833.57	0.007582	7.03	171.72	64.37	0.76
Franceville Lowe	FrancevilleLower	0.39	100yr	1207.00	5824.50	5827.78	5827.78	5828.89	0.013901	8.45	142.78	64.48	1.00
Franceville Lowe	FrancevilleLower	0.28	100yr	1207.00	5816.00	5819.76	5819.76	5821.01	0.013703	8.95	134.83	54.81	1.01
Franceville Lowe	FrancevilleLower	0.19	100yr	1252.00	5813.30	5817.49	5815.57	5817.66	0.001365	3.38	370.61	116.80	0.33
Franceville Lowe	FrancevilleLower	0.11	100yr	1252.00	5811.00	5814.93	5814.93	5816.18	0.011676	9.01	145.58	68.18	0.96
Franceville Lowe	FrancevilleLower	0.00	100yr	1252.00	5806.10	5813.50	5808.77	5813.51	0.000026	0.69	2510.21	646.13	0.05
East Fork	East Fork	7.13	100yr	1440.00	5966.20	5968.47	5968.21	5968.84	0.008776	4.90	295.95	225.74	0.74
East Fork	East Fork	7.03	100yr	1440.00	5959.30	5962.17	5962.17	5963.15	0.014780	7.94	181.53	96.50	1.01
East Fork	East Fork	6.95	100yr	1440.00	5952.40	5955.16	5955.00	5955.70	0.011714	5.89	244.28	167.95	0.86
East Fork	East Fork	6.85	100yr	1440.00	5945.30	5947.82	5947.82	5948.40	0.017437	6.11	235.72	207.06	1.01
East Fork	East Fork	6.78	100yr	1440.00	5940.00	5942.30	5941.98	5942.53	0.007007	3.91	369.78	329.28	0.64
East Fork	East Fork	6.67	100yr	1440.00	5933.00	5935.60	5935.60	5936.28	0.016288	6.62	217.38	160.65	1.00
East Fork	East Fork	6.56	100yr	1556.00	5926.00	5928.02	5927.81	5928.65	0.010705	6.40	243.12	137.97	0.85
East Fork	East Fork	6.44	100yr	1556.00	5919.00	5920.69	5920.56	5921.05	0.013595	4.63	321.90	333.50	0.87
East Fork	East Fork	6.34	100yr	1556.00	5913.90	5915.52	5915.18	5915.75	0.007282	3.88	401.30	362.34	0.65
East Fork	East Fork	6.23	100yr	1613.00	5908.00	5909.16	5909.16	5909.60	0.019226	5.29	304.68	357.22	1.01
East Fork	East Fork	6.15	100yr	1613.00	5898.00	5900.91	5900.31	5901.31	0.006123	5.07	317.84	168.06	0.65
East Fork	East Fork	6.05	100yr	1724.00	5891.40	5895.71	5895.71	5896.33	0.016773	6.32	272.78	220.89	1.00
East Fork	East Fork	5.90	100yr	1724.00	5884.40	5888.05	5887.15	5888.25	0.002658	3.59	480.12	240.79	0.45
East Fork	East Fork	5.741	100yr	2642.00	5877.40	5885.35	5883.00	5886.17	0.002492	7.26	363.71	454.12	0.51
East Fork	East Fork	5.74		Bridge									
East Fork	East Fork	5.730	100yr	2642.00	5876.30	5882.84	5882.84	5884.89	0.011396	11.48	230.22	494.50	1.01
East Fork	East Fork	5.70	100yr	2642.00	5875.30	5880.32	5879.34	5880.81	0.004515	5.61	471.00	170.21	0.59
East Fork	East Fork	5.60	100yr	2642.00	5870.50	5876.41	5876.16	5877.44	0.009498	8.14	333.21	165.60	0.86
East Fork	East Fork	5.46	100yr	2642.00	5865.10	5870.85	5870.85	5871.46	0.007095	6.99	564.54	527.52	0.74
East Fork	East Fork	5.39	100yr	2642.00	5862.70	5867.46	5866.84	5867.66	0.003823	3.64	744.93	482.32	0.50
East Fork	East Fork	5.30	100yr	2642.00	5860.10	5864.76	5864.76	5865.41	0.007275	6.93	516.10	448.42	0.75
East Fork	East Fork	5.25	100yr	2642.00	5859.00	5860.78	5860.69	5861.10	0.014181	4.55	580.82	680.51	0.87
East Fork	East Fork	5.15	100yr	2642.00	5853.00	5854.96	5854.74	5855.20	0.009662	3.97	666.02	718.55	0.73
East Fork	East Fork	5.05	100yr	2864.00	5846.90	5848.24	5848.13	5848.49	0.017134	4.05	707.40	931.11	0.82
East Fork	East Fork	4.95	100yr	2864.00	5840.00	5842.31	5842.00	5842.47	0.007669	3.13	916.83	977.14	0.57
East Fork	East Fork	4.85	100yr	2864.00	5834.00	5834.85	5834.85	5835.22	0.026032	4.89	586.03	795.92	1.00
East Fork	East Fork	4.72	100yr	2864.00	5826.10	5828.04	5827.52	5828.19	0.003975	2.11	1360.36	1598.66	0.40
East Fork	East Fork	4.58	100yr	2864.00	5820.30	5821.25	5821.25	5821.59	0.027005	4.70	608.80	699.90	1.01
East Fork	East Fork	4.46	100yr	2864.00	5815.80	5818.56	5817.46	5818.61	0.001273	1.82	1579.07	1002.83	0.25
East Fork	East Fork	4.29	100yr	2864.00	5810.00	5818.38	5816.35	5818.39	0.000109	0.74	4340.44	2006.22	0.09
East Fork	East Fork	4.28		Culvert									
East Fork	East Fork	4.27	100yr	2964.00	5807.00	5814.56	5814.56	5818.36	0.011998	15.68	189.06	2404.46	1.00
East Fork	East Fork	4.18	100yr	2964.00	5802.00	5803.06	5802.97	5803.32	0.018443	4.09	724.92	1215.29	0.84
East Fork	East Fork	4.01	100yr	2964.00	5794.60	5797.72	5796.99	5797.81	0.003419	2.51	1180.96	950.60	0.40

HEC-RAS Plan: Revised Profile: 100yr (Continued)

River	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
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
East Fork	East Fork	3.87	100yr	2964.00	5790.50	5792.23	5792.22	5792.52	0.028388	4.33	683.96	1187.15	1.01
East Fork	East Fork	3.76	100yr	2987.00	5785.70	5787.07	5786.61	5787.16	0.004329	2.39	1250.69	1294.84	0.43
East Fork	East Fork	3.64	100yr	2987.00	5780.00	5781.27	5781.27	5781.64	0.026788	4.86	614.60	859.98	1.01
East Fork	East Fork	3.54	100yr	2987.00	5768.00	5774.24	5772.88	5774.55	0.003817	4.42	677.33	288.45	0.48
East Fork	East Fork	3.43	100yr	2987.00	5763.10	5769.01	5769.01	5770.37	0.014820	9.40	326.72	129.75	0.95
East Fork	East Fork	3.32	100yr	3992.00	5762.00	5765.19	5764.25	5765.56	0.004621	4.92	827.94	339.68	0.53
East Fork	East Fork	3.20	100yr	3992.00	5756.00	5760.33	5760.11	5761.41	0.010885	8.61	503.84	196.01	0.83
East Fork	East Fork	3.07	100yr	3992.00	5750.00	5754.67	5754.33	5755.15	0.006970	6.27	780.50	426.75	0.65
East Fork	East Fork	2.94	100yr	4224.00	5740.60	5746.35	5746.35	5747.99	0.015254	10.27	413.33	136.22	0.99
East Fork	East Fork	2.84	100yr	4224.00	5735.00	5740.88	5740.01	5741.07	0.001953	4.02	1237.74	421.76	0.36
East Fork	East Fork	2.72	100yr	4260.00	5730.00	5738.02	5736.50	5738.85	0.005567	7.33	581.03	134.36	0.62
East Fork	East Fork	2.59	100yr	4260.00	5724.00	5732.25	5732.20	5733.95	0.010010	10.82	442.35	130.13	0.84
East Fork	East Fork	2.48	100yr	4260.00	5722.00	5729.26	5727.87	5729.93	0.004542	6.58	664.52	186.62	0.56
East Fork	East Fork	2.37	100yr	4525.00	5716.00	5725.03	5725.35	5726.45	0.006831	7.74	736.64	410.53	0.68
East Fork	East Fork	2.27	100yr	4525.00	5712.70	5722.03	5721.45	5722.91	0.006355	7.91	572.93	277.54	0.66
East Fork	East Fork	2.14	100yr	4525.00	5709.50	5716.46	5716.31	5717.87	0.008863	10.53	538.28	189.09	0.81
East Fork	East Fork	2.05	100yr	4572.00	5707.50	5716.19	5712.98	5716.41	0.001030	4.38	1291.20	282.46	0.29
East Fork	East Fork	2.00	100yr	4572.00	5711.00	5715.20	5714.42	5715.83	0.007156	6.38	716.26	247.16	0.66
East Fork	East Fork	1.93	100yr	4572.00	5706.00	5712.87	5711.96	5713.57	0.004646	7.29	809.01	381.25	0.58
East Fork	East Fork	1.83	100yr	4572.00	5703.50	5710.80	5710.31	5711.23	0.004549	6.56	1000.45	485.45	0.56
East Fork	East Fork	1.66	100yr	4572.00	5699.50	5706.52	5705.39	5707.00	0.005063	5.66	892.85	519.81	0.56
East Fork	East Fork	1.55	100yr	4603.00	5700.00	5704.42	5703.39	5704.75	0.003266	5.19	1063.47	441.80	0.47
East Fork	East Fork	1.35	100yr	4603.00	5689.90	5699.58	5699.75	5700.62	0.005129	8.82	647.66	205.36	0.62
East Fork	East Fork	1.26	100yr	4603.00	5684.80	5696.25	5696.25	5697.53	0.007224	9.83	608.95	249.73	0.71
East Fork	East Fork	1.15	100yr	4603.00	5684.00	5694.22	5691.79	5694.73	0.002436	6.15	959.98	373.84	0.43
East Fork	East Fork	1.05	100yr	4667.00	5681.00	5692.87	5691.40	5693.47	0.002506	7.51	909.70	260.37	0.45
East Fork	East Fork	0.97	100yr	4667.00	5680.00	5692.29	5688.98	5692.73	0.001274	6.21	1031.95	206.21	0.33
East Fork	East Fork	0.87	100yr	4667.00	5680.00	5688.98	5688.98	5691.14	0.006163	12.32	452.85	129.37	0.79
East Fork	East Fork	0.77	100yr	4667.00	5677.90	5685.38	5684.83	5686.61	0.007506	9.42	557.60	151.41	0.73
East Fork	East Fork	0.67	100yr	4667.00	5677.90	5683.70	5681.93	5684.13	0.002885	5.56	942.05	263.71	0.44
East Fork	East Fork	0.57	100yr	4667.00	5676.60	5682.67	5681.13	5682.92	0.002178	4.28	1211.44	391.03	0.38
East Fork	East Fork	0.44	100yr	4681.00	5671.00	5681.13	5677.73	5681.59	0.001659	5.59	927.54	203.32	0.37
East Fork	East Fork	0.32	100yr	4681.00	5672.10	5680.82	5676.22	5680.96	0.000537	3.11	1750.62	482.91	0.21
East Fork	East Fork	0.23	100yr	4681.00	5671.00	5680.70	5674.46	5680.78	0.000218	2.21	2142.61	310.59	0.14
East Fork	East Fork	0.10	100yr	4681.00	5673.90	5679.20	5679.20	5680.21	0.013506	11.42	628.42	295.61	0.96
Corral Trib	Corral Trib	7.86	100yr	1311.00	6200.00	6201.84	6201.63	6202.40	0.010454	5.98	219.12	135.20	0.83
Corral Trib	Corral Trib	7.79	100yr	1311.00	6194.60	6198.16	6197.75	6198.97	0.008212	7.26	180.64	68.62	0.79
Corral Trib	Corral Trib	7.69	100yr	1311.00	6188.20	6192.16	6192.16	6193.39	0.013799	8.90	147.31	60.93	1.01
Corral Trib	Corral Trib	7.59	100yr	1311.00	6182.20	6186.15	6185.72	6187.01	0.008251	7.44	176.23	64.80	0.79
Corral Trib	Corral Trib	7.50	100yr	2098.00	6176.90	6180.22	6180.22	6181.06	0.015103	7.36	284.92	169.73	1.00
Corral Trib	Corral Trib	7.39	100yr	2098.00	6171.20	6174.47	6174.02	6174.76	0.005648	4.31	494.05	346.42	0.61
Corral Trib	Corral Trib	7.29	100yr	2098.00	6165.10	6169.45	6169.45	6170.66	0.010513	9.02	264.69	132.79	0.92
Corral Trib	Corral Trib	7.19	100yr	2098.00	6159.80	6163.87	6163.36	6164.34	0.006485	5.49	382.70	187.18	0.68
Corral Trib	Corral Trib	7.09	100yr	2098.00	6153.20	6159.00	6158.61	6160.17	0.008644	8.70	242.39	74.40	0.83
Corral Trib	Corral Trib	6.99	100yr	2098.00	6147.90	6152.99	6152.99	6154.43	0.013622	9.62	218.17	77.27	1.01
Corral Trib	Corral Trib	6.89	100yr	2098.00	6142.20	6146.59	6147.41	6149.27	0.005143	6.61	317.31	97.16	0.64
Corral Trib	Corral Trib	6.76	100yr	3227.00	6135.00	6141.84	6141.84	6143.30	0.013220	9.73	331.73	114.04	1.01
Corral Trib	Corral Trib	6.64	100yr	3227.00	6127.40	6133.37	6133.29	6135.05	0.011668	10.40	310.37	68.54	0.98
Corral Trib	Corral Trib	6.54	100yr	3227.00	6121.80	6126.90	6126.90	6129.07	0.011685	11.81	273.17	63.52	1.00
Corral Trib	Corral Trib	6.45	100yr	3227.00	6115.90	6119.78	6119.78	6121.20	0.013000	9.56	337.40	121.05	1.01
Corral Trib	Corral Trib	6.34	100yr	3227.00	6110.70	6118.07	6114.25	6118.16	0.000332	2.36	1368.75	312.01	0.18
Corral Trib	Corral Trib	6.255	100yr	3227.00	6108.00	6115.75	6114.06	6117.62	0.004339	10.95	294.59	300.28	0.69
Corral Trib	Corral Trib	6.25		Culvert									
Corral Trib	Corral Trib	6.245	100yr	4173.00	6106.00	6113.19	6113.19	6116.81	0.009314	15.27	273.33	350.38	1.00
Corral Trib	Corral Trib	6.14	100yr	4173.00	6099.20	6102.86	6102.48	6103.55	0.007909	6.64	628.54	270.34	0.77
Corral Trib	Corral Trib	6.04	100yr	4173.00	6093.00	6096.94	6096.94	6097.94	0.014521	8.06	517.99	261.54	1.01
Corral Trib	Corral Trib	5.94	100yr	4173.00	6088.00	6091.02	6090.10	6091.44	0.004243	5.21	801.44	309.60	0.57
Corral Trib	Corral Trib	5.84	100yr	4173.00	6081.80	6086.19	6086.19	6087.79	0.012061	10.14	411.68	126.35	0.99
Corral Trib	Corral Trib	5.74	100yr	4173.00	6076.80	6081.15	6080.35	6081.48	0.003911	4.61	905.59	394.53	0.54
Corral Trib	Corral Trib	5.63	100yr	4173.00	6072.10	6076.70	6076.70	6077.63	0.014959	7.73	539.60	295.32	1.01
Corral Trib	Corral Trib	5.53	100yr	4925.00	6067.50	6069.97	6069.67	6070.69	0.008960	6.78	726.45	329.92	0.81
Corral Trib	Corral Trib	5.43	100yr	4925.00	6061.80	6065.20	6064.94	6065.71	0.009186	5.72	861.16	514.01	0.78
Corral Trib	Corral Trib	5.33	100yr	4925.00	6056.50	6061.12	6060.80	6061.60	0.006785	5.88	1020.58	633.05	0.70
Corral Trib	Corral Trib	5.23	100yr	4925.00	6049.90	6054.11	6054.11	6056.15	0.014237	12.26	577.77	369.48	1.10
Corral Trib	Corral Trib	5.12	100yr	4925.00	6041.70	6048.46	6047.61	6050.36	0.007010	11.05	446.30	79.10	0.61
Corral Trib	Corral Trib	5.02	100yr	4925.00	6036.90	6043.54	6043.54	6045.92	0.011227	12.38	397.83	84.86	1.01
Corral Trib	Corral Trib	4.93	100yr	4925.00	6031.60	6038.64	6038.23	6040.50	0.007776	11.00	485.75	218.41	0.85
Corral Trib	Corral Trib	4.83	100yr	4925.00	6027.00	6033.73	6033.73	6036.17	0.009346	12.63	414.09	103.56	0.94
Corral Trib	Corral Trib	4.74	100yr	5129.00	6022.30	6029.66	6029.66	6031.49	0.007061	11.25	563.08	197.48	0.83
Corral Trib	Corral Trib	4.65	100yr	5129.00	6018.70	6025.76	6025.76	6027.12	0.006637	10.13	674.31	269.98	0.87
Corral Trib	Corral Trib	4.56	100yr	5129.00	6015.80	6022.67	6021.61	6023.69	0.005547	8.23	773.78	509.04	0.70
Corral Trib	Corral Trib	4.46	100yr	5129.00	6011.60	6018.83	6018.07	6020.49	0.006752	10.35	506.44	123.16	0.80
Corral Trib	Corral Trib	4.36	100yr	5129.00	6007.00	6013.57	6013.57	6015.98	0.011499	12.45	411.87	86.26	1.00
Corral Trib	Corral Trib	4.26	100yr	5129.00	6002.60	6007.86	6007.86	6009.16	0.013182	9.15	560.40	216.80	1.00
Corral Trib	Corral Trib	4.16	100yr	5129.00	5998.90	6005.52	6003.75	6005.96	0.002881	5.30	968.57	272.45	0.49
Corral Trib	Corral Trib	4.07	100yr	6212.00	5995.10	6002.98	6001.34	6004.03	0.003971	8.20	761.56	146.30	0.62
Corral Trib	Corral Trib	3.98	100yr	6212.00	5991.40	5998.19	5998.19	6000.74	0.010480	12.84	490.03	100.61	1.00
Corral Trib	Corral Trib	3.89	100yr	6212.00	5987.90	5995.32	5993.39	5996.13	0.003169	7.21	861.72	160.33	0.55
Corral Trib	Corral Trib	3.79	100yr	6212.00	5985.10	5991.21	5991.21	5993.31	0.011523	11.63	533.94	127.86	1.00
Corral Trib	Corral Trib	3.70	100yr	6212.00	5981.30	5987.73	5986.61	5988.31	0.003962	6.09	1020.49	295.08	0.58
Corral Trib	Corral Trib	3.60	100yr	6212.00	5978.30	5984.83	5984.21	5985.53	0.007274	6.71	926.18	365.14	0.74
Corral Trib	Corral Trib	3.52	100yr	6212.00	5975.10	5980.72	5980.60	5981.85	0.011646	8.53	728.56	286.45	0.94
Corral Trib	Corral Trib	3.44	100yr	6212.00	5972.40	5978.88	5977.63	5979.29	0.003106	5.15	1207.76	377.37	0.51
Corral Trib	Corral Trib	3.32	100yr	6212.00	5967.60	5976.01	5975.02	5976.92	0.004360	7.92	926.43	341.55	0.64
Corral Trib	Corral Trib	3.25	100yr	6212.00	5965.40	5972.96	5972.96	5974.55	0.008222	10.35	684.30	251.89	0.88
Corral Trib	Corral Trib	3.15	100yr	6212.00	5961.60	5971.89	5968.98	5972.25	0.001337	4.98	1370.81	276.34	0.36
Corral Trib	Corral Trib	3.04	100yr	10883.00	5956.90	5967.11	5967.11	5969.96	0.008676	13.59	838.14	199.44	0.94
Corral Trib	Corral Trib	2.93	100yr	10883.00	5953.90	5964.64	5964.64	5966.09	0.004552	11.23	1634.22	537.16	0.70
Corral Trib	Corral Trib	2.83	100yr	10883.00	5949.60	5959.44	5959.33	5961.92	0.007302	13.43	1007.11	216.83	0.87
Corral Trib	Corral Trib	2.72	100yr	10883.00	5945.00	5953.99	5953.99	5957.27	0.009066	14.60	777.18	139.91	0.97
Corral Trib	Corral Trib	2.63	100yr	10883.00	5940.70	5952.75	5950.28	5954.17	0.003044	10.19	1289.16	205.23	0.59
Corral Trib	Corral Trib	2.52	100yr	10883.00	5934.80	5947.31	5947.31	5951.18	0.008300	15.92	725.91	111.35	0.94
Corral Trib	Corral Trib	2.42	100yr	10883.00	5930.80	5941.87	5941.87	5945.22	0.008670	14.76	772.91	143.51	0.95
Corral Trib	Corral Trib	2.32	100yr	10883.00	5926.80	5937.55	5936.98	5940.21	0.006672	13.46	907.74	155.80	0.84

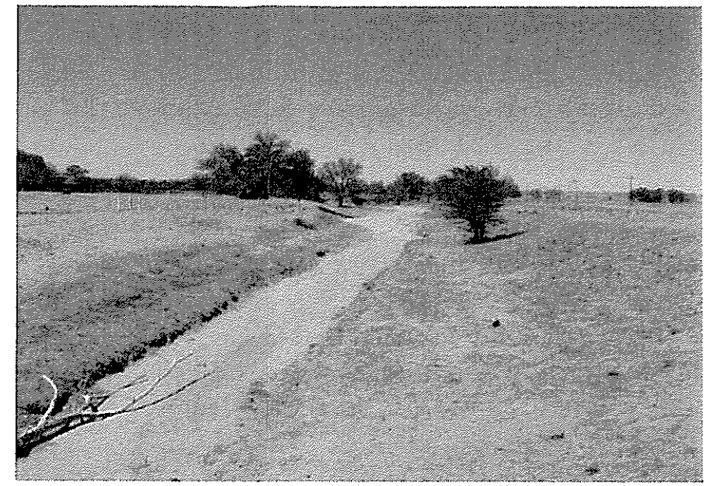
HEC-RAS Plan: Revised Profile: 100yr (Continued)

River	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
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Corral Trib	Corral Trib	2.21	100yr	10883.00	5922.10	5935.14	5932.67	5937.08	0.003936	11.18	975.19	109.97	0.65
Corral Trib	Corral Trib	2.14	100yr	10883.00	5918.20	5930.20	5930.20	5934.40	0.009758	16.45	661.40	78.98	1.00
Corral Trib	Corral Trib	2.04	100yr	11077.00	5914.30	5926.45	5925.83	5929.70	0.007638	14.47	765.63	96.70	0.91
Corral Trib	Corral Trib	1.95	100yr	11077.00	5910.50	5923.39	5922.47	5925.98	0.007378	12.91	857.92	123.65	0.88
Corral Trib	Corral Trib	1.85	100yr	11077.00	5906.60	5919.70	5918.31	5922.43	0.006229	13.25	835.93	100.22	0.81
Corral Trib	Corral Trib	1.76	100yr	11077.00	5903.10	5916.74	5914.95	5919.62	0.004909	13.67	841.22	103.68	0.74
Corral Trib	Corral Trib	1.66	100yr	11077.00	5899.60	5912.14	5912.14	5916.09	0.009775	15.95	694.49	88.37	1.00
Corral Trib	Corral Trib	1.57	100yr	11077.00	5895.80	5907.73	5907.73	5911.60	0.006972	16.45	761.12	108.86	0.90
Corral Trib	Corral Trib	1.47	100yr	11552.00	5892.40	5902.67	5902.62	5906.31	0.009436	15.33	757.08	104.87	0.99
Corral Trib	Corral Trib	1.37	100yr	11552.00	5887.50	5900.44	5898.79	5902.73	0.004399	12.37	1007.13	131.19	0.71
Corral Trib	Corral Trib	1.25	100yr	11552.00	5882.00	5894.78	5894.46	5898.80	0.006653	16.08	718.70	81.82	0.95
Corral Trib	Corral Trib	1.16	100yr	11552.00	5878.30	5891.21	5890.68	5894.25	0.007780	14.00	827.04	113.67	0.90
Corral Trib	Corral Trib	1.05	100yr	11552.00	5873.90	5891.44	5885.60	5892.23	0.001175	7.56	1955.12	317.28	0.37
Corral Trib	Corral Trib	0.95	100yr	11552.00	5869.20	5885.07	5885.07	5890.40	0.009655	16.54	627.26	61.05	0.99
Corral Trib	Corral Trib	0.86	100yr	11552.00	5863.70	5873.45	5872.30	5875.93	0.006113	12.64	913.96	116.45	0.80
Corral Trib	Corral Trib	0.775	100yr	11552.00	5860.00	5873.35	5868.41	5874.38	0.001561	6.17	1424.47	143.14	0.43
Corral Trib	Corral Trib	0.77		Bridge									
Corral Trib	Corral Trib	0.765	100yr	11572.00	5860.00	5866.97	5866.97	5870.07	0.009678	14.15	818.00	147.66	1.00
Corral Trib	Corral Trib	0.71	100yr	11572.00	5856.40	5863.58	5862.33	5865.16	0.004950	10.13	1162.31	199.06	0.71
Corral Trib	Corral Trib	0.61	100yr	11572.00	5851.80	5858.60	5858.60	5861.53	0.009703	13.77	854.16	153.71	0.99
Corral Trib	Corral Trib	0.51	100yr	11572.00	5845.60	5853.36	5853.05	5855.47	0.007897	11.85	1033.75	218.93	0.88
Corral Trib	Corral Trib	0.42	100yr	11572.00	5841.50	5848.75	5848.75	5850.61	0.011342	10.95	1064.82	306.23	0.99
Corral Trib	Corral Trib	0.32	100yr	11572.00	5837.00	5843.75	5843.14	5844.88	0.006934	8.53	1359.01	364.65	0.78
Corral Trib	Corral Trib	0.23	100yr	11572.00	5833.80	5839.71	5838.71	5840.38	0.011736	10.37	1127.85	370.03	0.99
Corral Trib	Corral Trib	0.13	100yr	11572.00	5828.90	5835.07	5833.73	5835.66	0.003162	6.29	1944.67	509.88	0.54
Corral Trib	Corral Trib	0.02	100yr	11572.00	5826.50	5831.27	5831.27	5832.75	0.010543	9.95	1253.24	438.78	0.94
Corral Trib	Corral Trib	0.00	100yr	11572.00	5823.00	5828.00	5827.28	5828.95	0.005760	8.62	1644.23	502.67	0.72



JCC @ SH-94	LOB	CH	ROB
Manning's n-values:	0.04	0.035	0.045

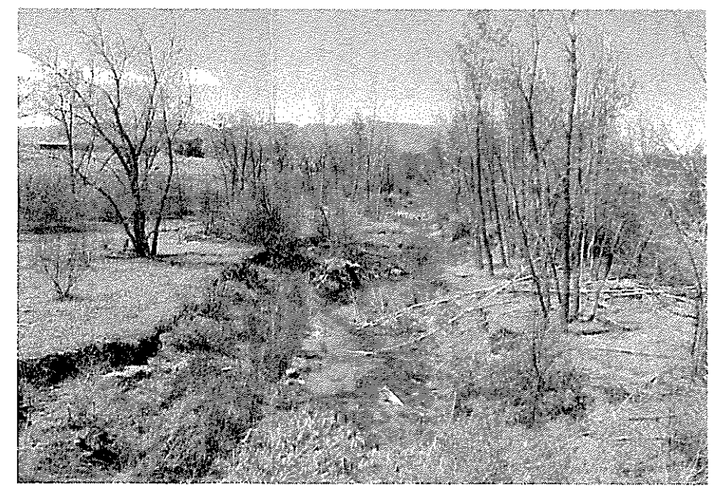
JCC @ Bradley	LOB	CH	ROB
Manning's n-values:	0.05	0.035	0.05



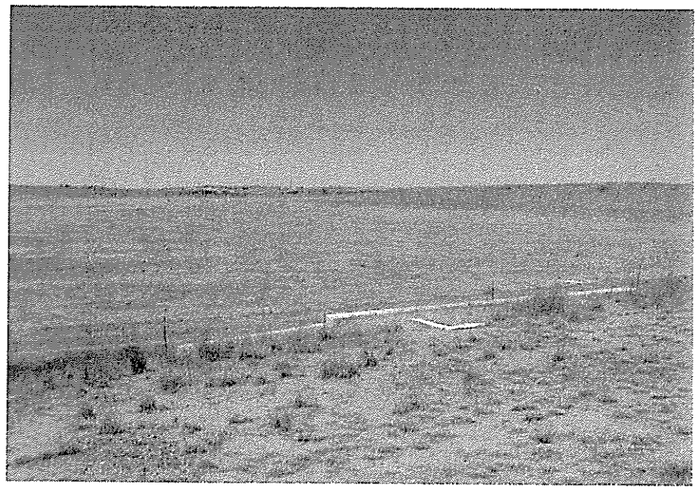
JCC @ Drennan	LOB	CH	ROB
Manning's n-values:	0.04	0.035	0.04

JCC @ Peaceful Valley	LOB	CH	ROB
Manning's n-values:	0.05	0.04	0.05

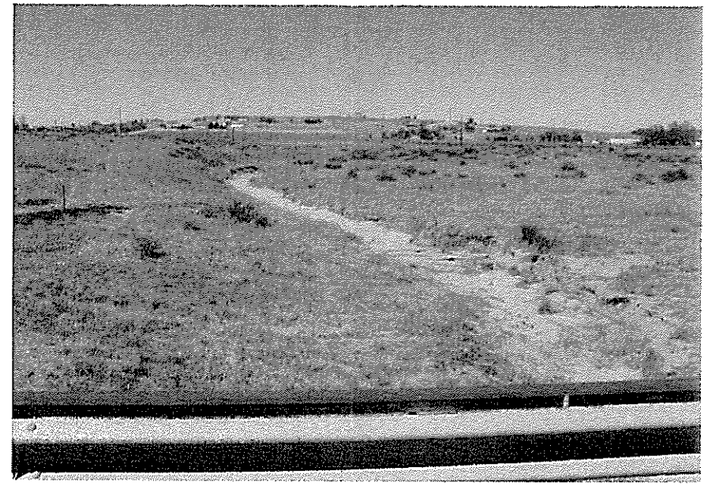
JCC @ Ohio	LOB	CH	ROB
Manning's n-values:	0.05	0.035	0.05



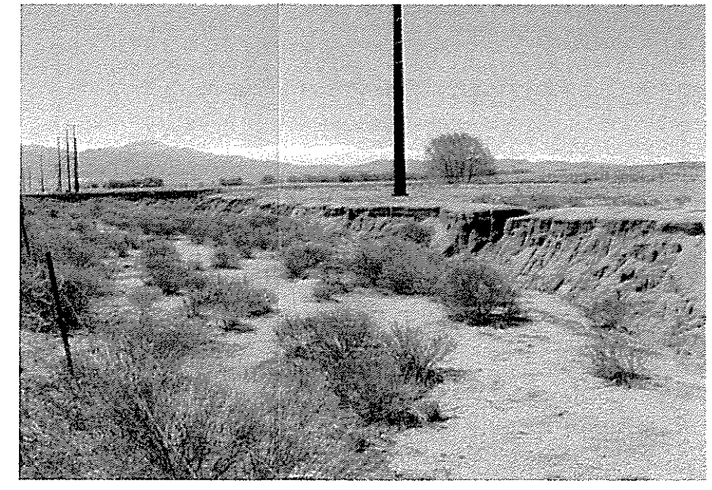
JCC @ Link	LOB	CH	ROB
Manning's n-values:	0.05	0.04	0.05



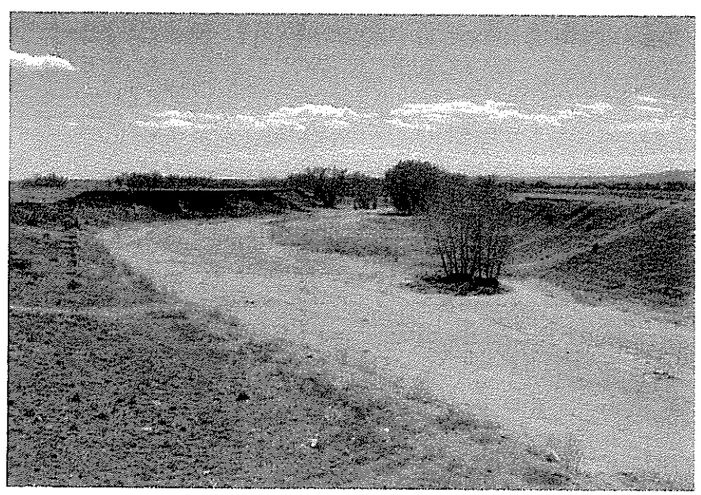
East Fork @ Bradley	LOB	CH	ROB
Manning's n-values:	0.04	0.04	0.04



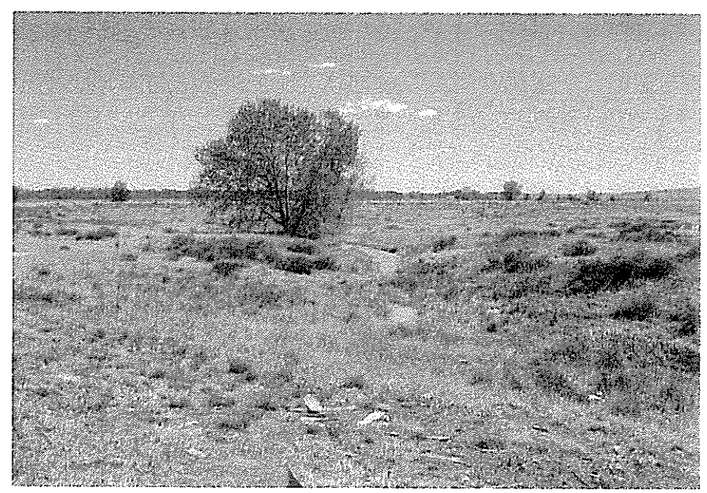
East Fork @ Drennan	LOB	CH	ROB
Manning's n-values:	0.045	0.035	0.045



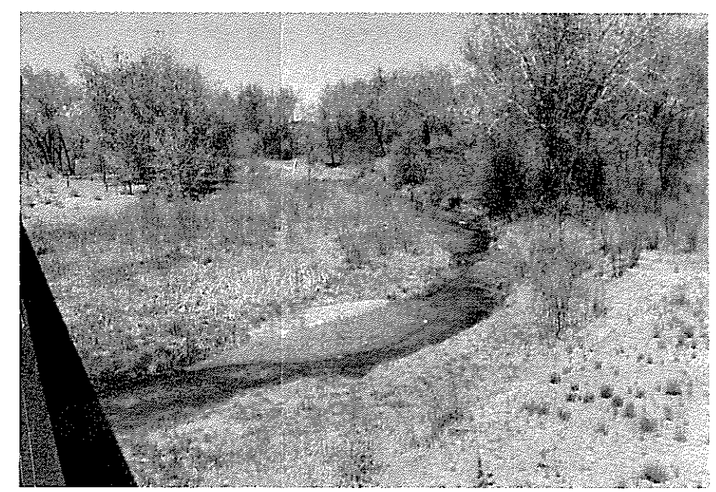
Strip Mine @ Drennan	LOB	CH	ROB
Manning's n-values:	0.045	0.035	0.04



Corral @ Drennan	LOB	CH	ROB
Manning's n-values:	0.04	0.035	0.045



Marksheffel @ Bradley	LOB	CH	ROB
Manning's n-values:	0.045	0.035	0.045

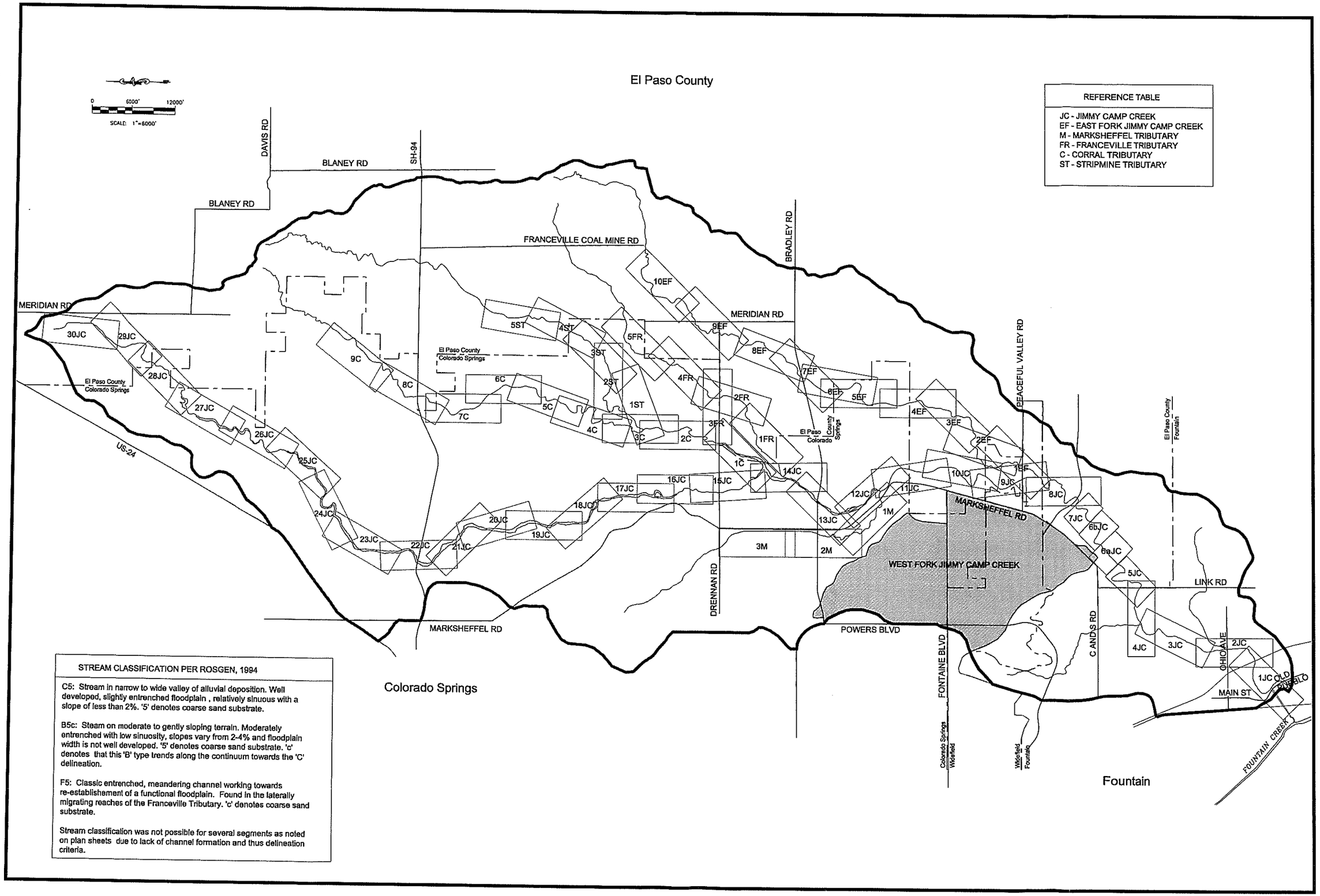


JCC @ Old Pueblo	LOB	CH	ROB
Manning's n-values:	0.05	0.035	0.05

APPENDIX C

FLOODPLAIN PANELS

Jimmy Camp Creek and Sub-drainageways



REFERENCE TABLE

JC - JIMMY CAMP CREEK
EF - EAST FORK JIMMY CAMP CREEK
M - MARKSHEFFEL TRIBUTARY
FR - FRANCEVILLE TRIBUTARY
C - CORRAL TRIBUTARY
ST - STRIPMINE TRIBUTARY

STREAM CLASSIFICATION PER ROSGEN, 1994

C5: Stream in narrow to wide valley of alluvial deposition. Well developed, slightly entrenched floodplain , relatively sinuous with a slope of less than 2%. '5' denotes coarse sand substrate.

B5c: Steam on moderate to gently sloping terrain. Moderately entrenched with low sinuosity, slopes vary from 2-4% and floodplain width is not well developed. '5' denotes coarse sand substrate. 'c' denotes that this 'B' type trends along the continuum towards the 'C' delineation.

F5: Classic entrenched, meandering channel working towards re-establishement of a functional floodplain. Found in the laterally migrating reaches of the Franceville Tributary. 'c' denotes coarse sand substrate.

Stream classification was not possible for several segments as noted on plan sheets due to lack of channel formation and thus delineation criteria.

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JIMMY CAMP CREEK WATERSHED DRAINAGE BASIN PLANNING STUDY

PANEL INDEX MAP

CITY OF FOUNTAIN, CITY OF COLORADO SPRINGS, EL PASO COUNTY

Project No.:	06025
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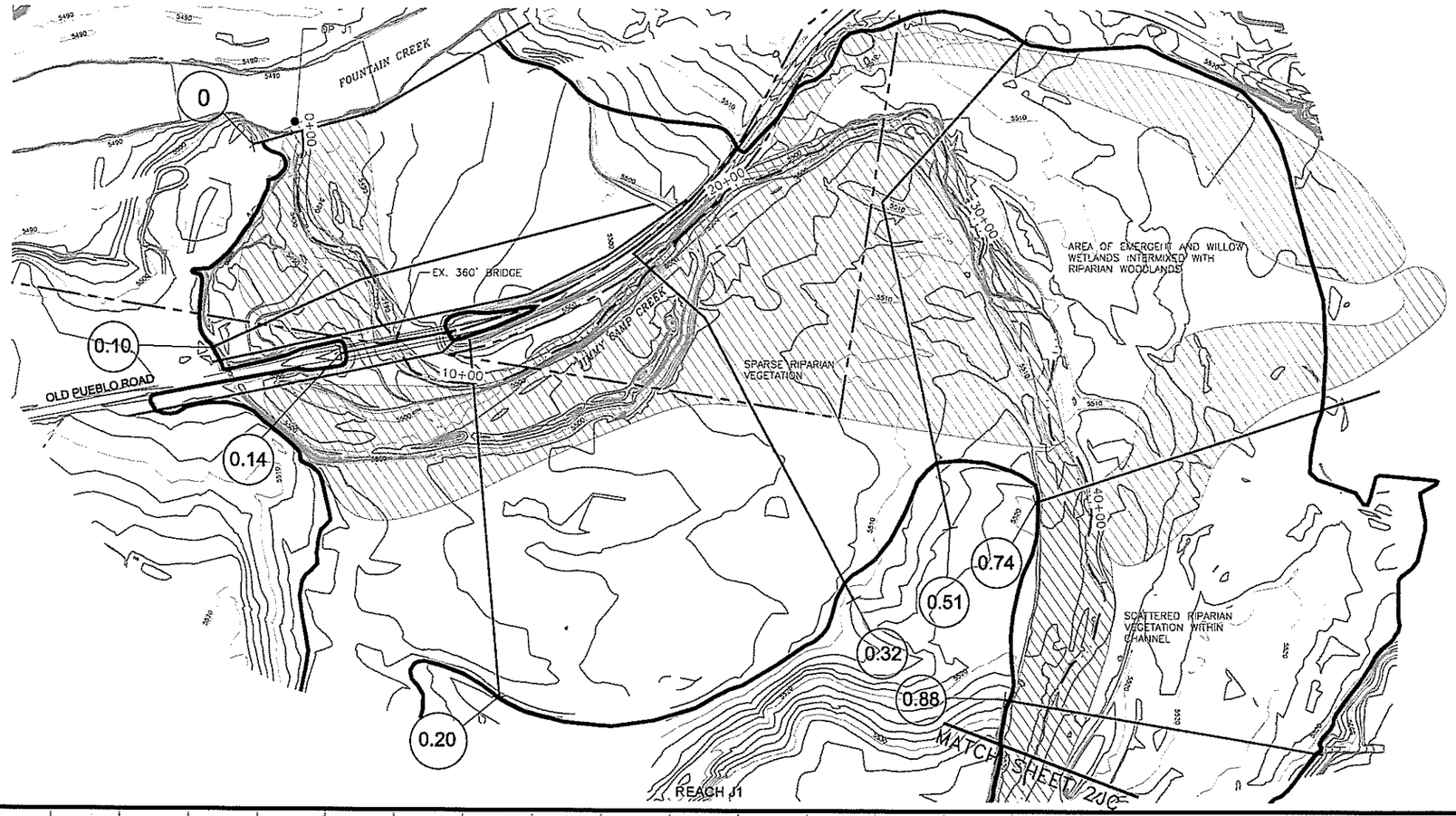
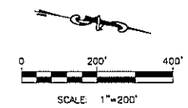
PANEL INDEX





LEGEND

- 100-YR FLOODPLAIN
- 0.88 — CR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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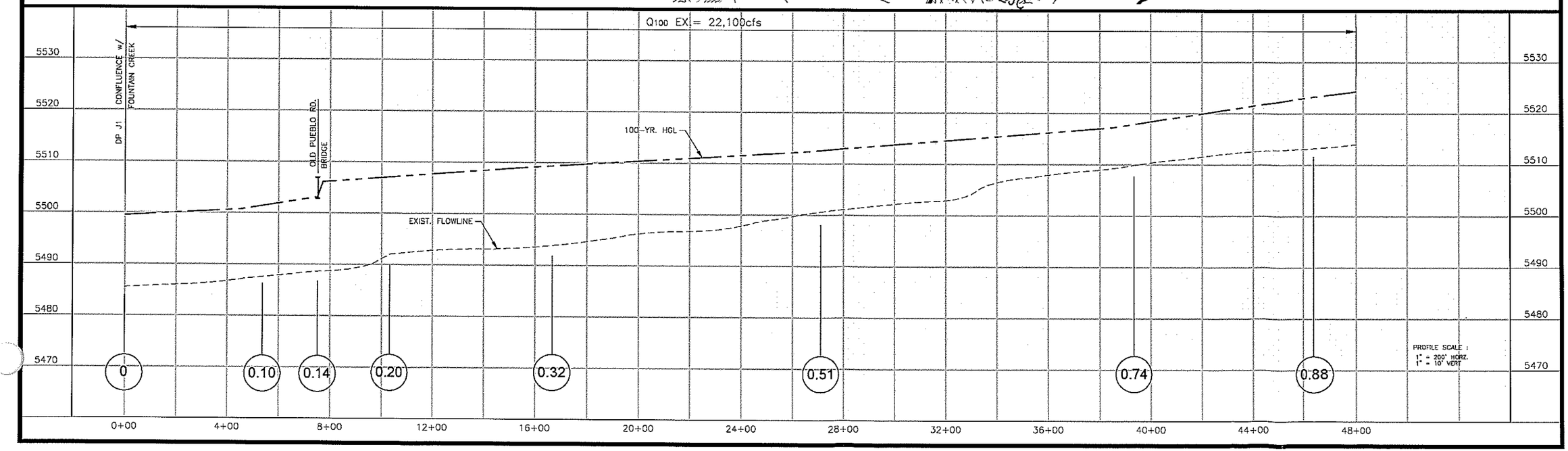
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

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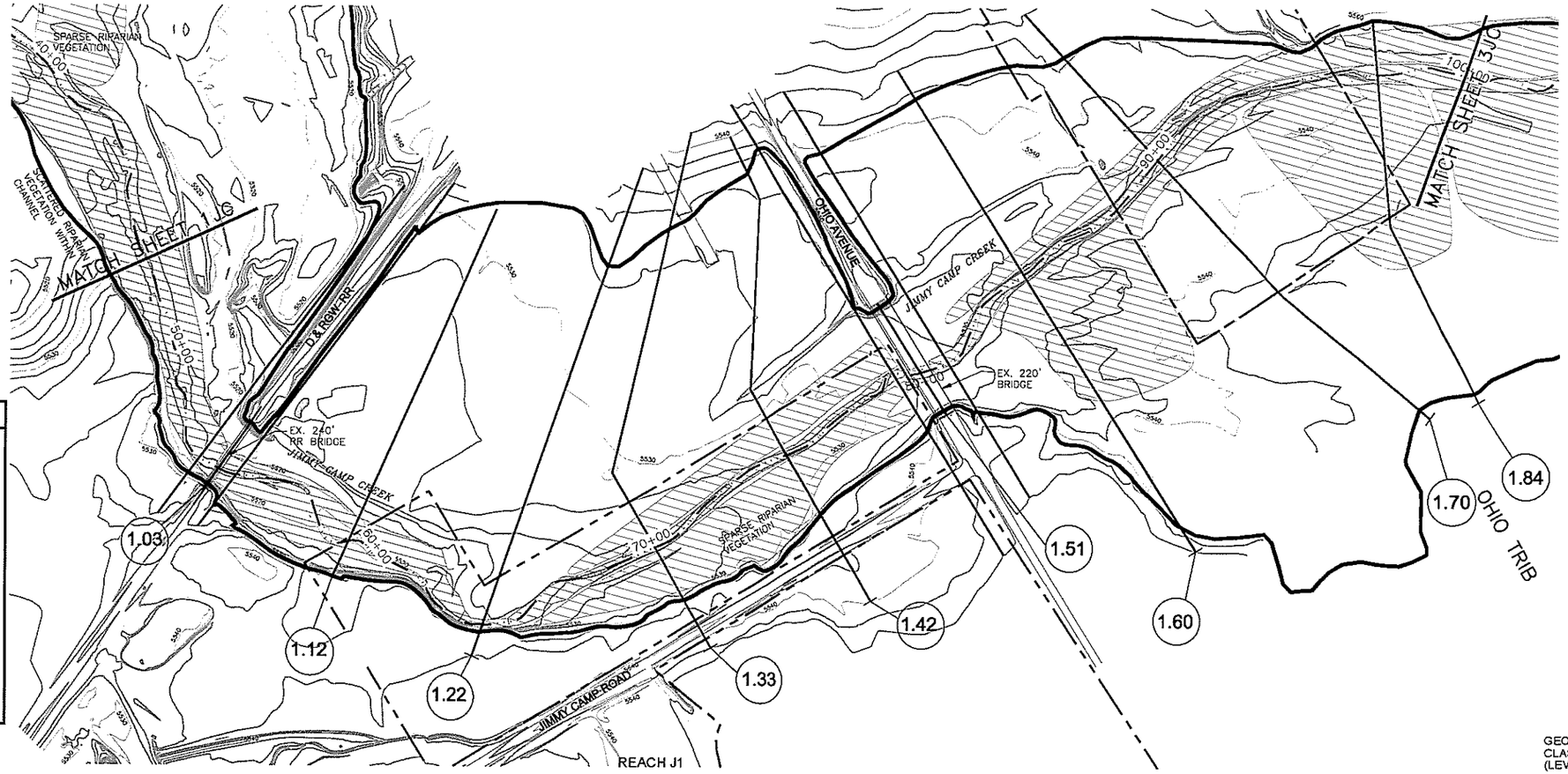

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

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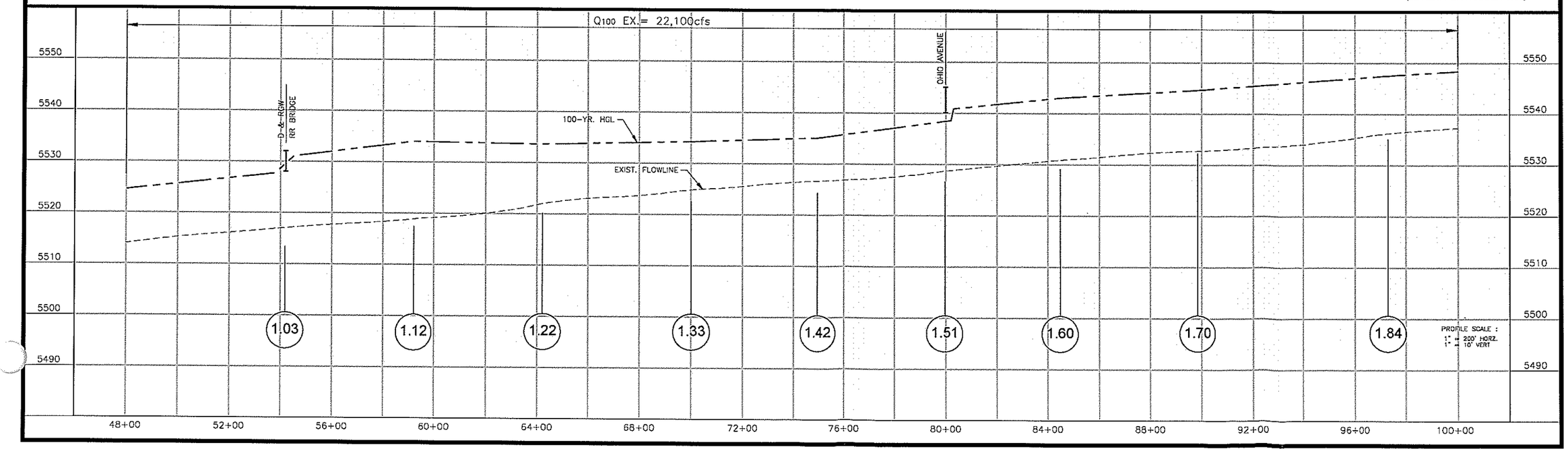

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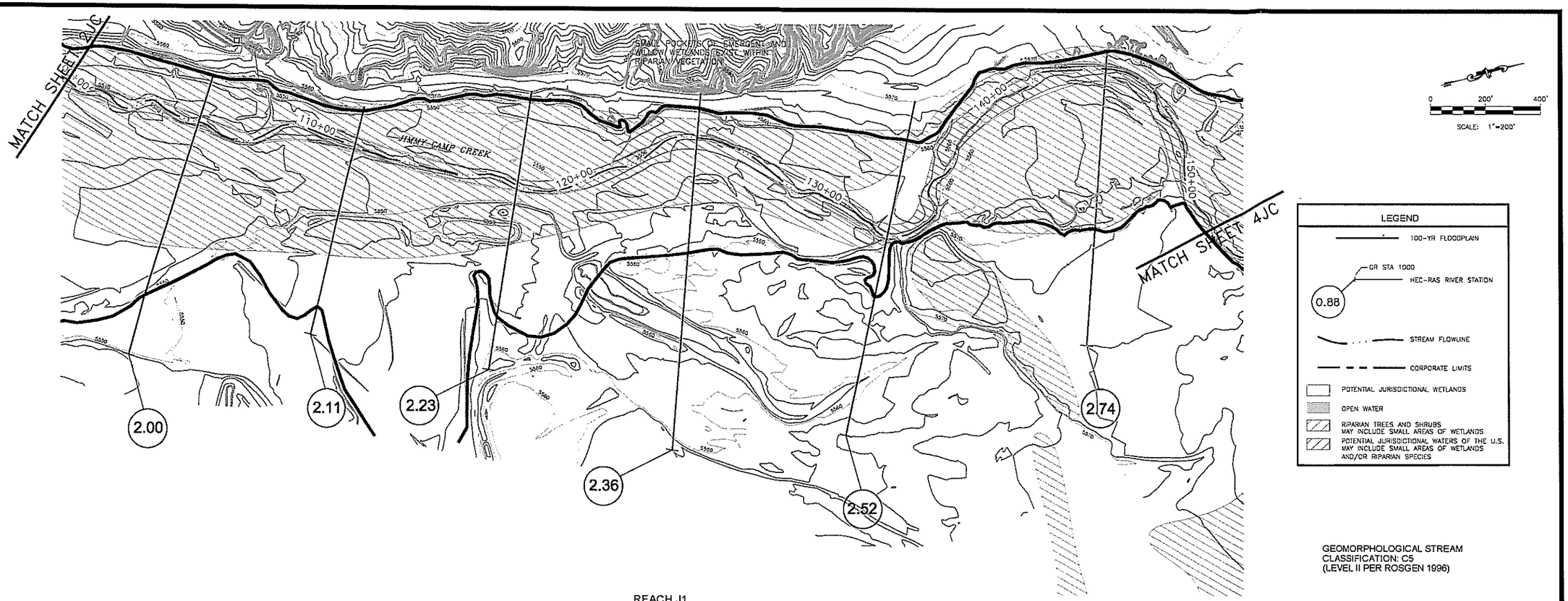

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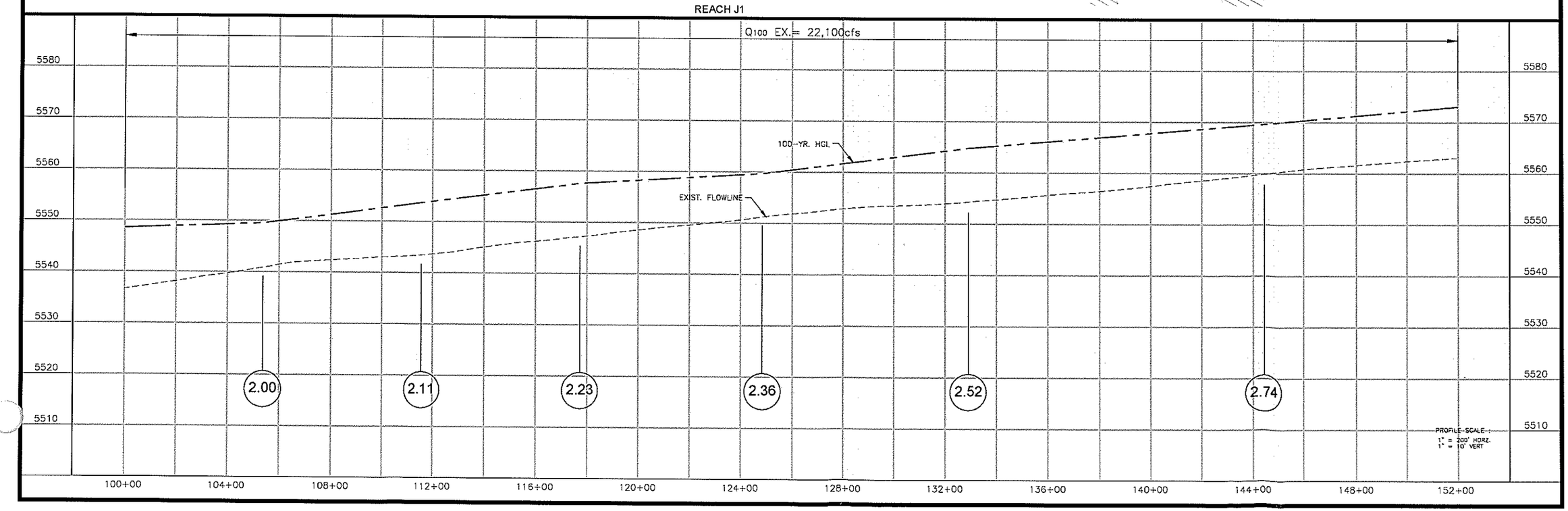

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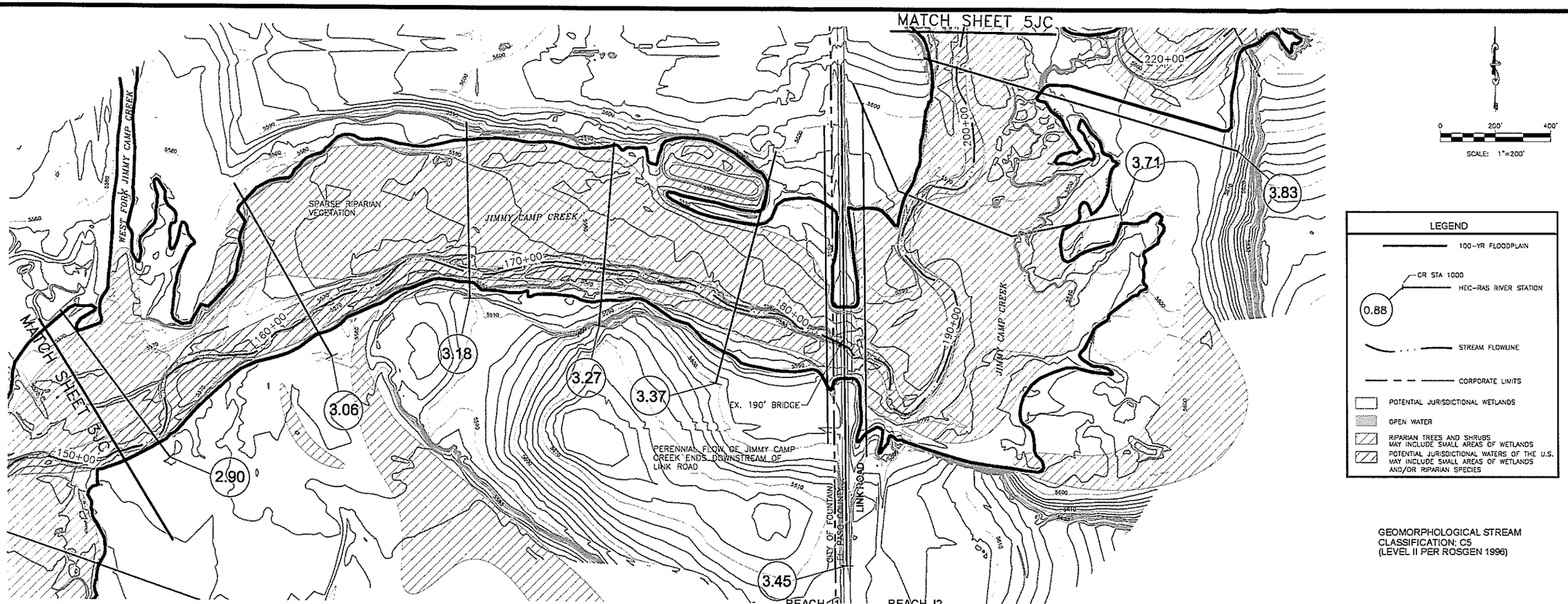

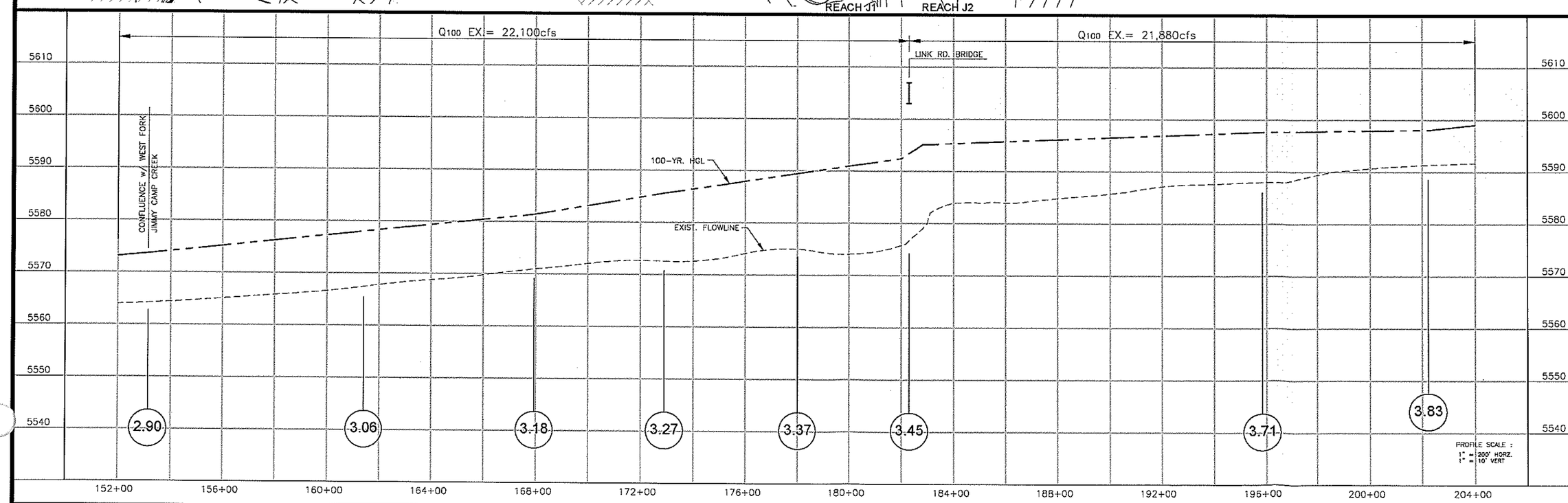

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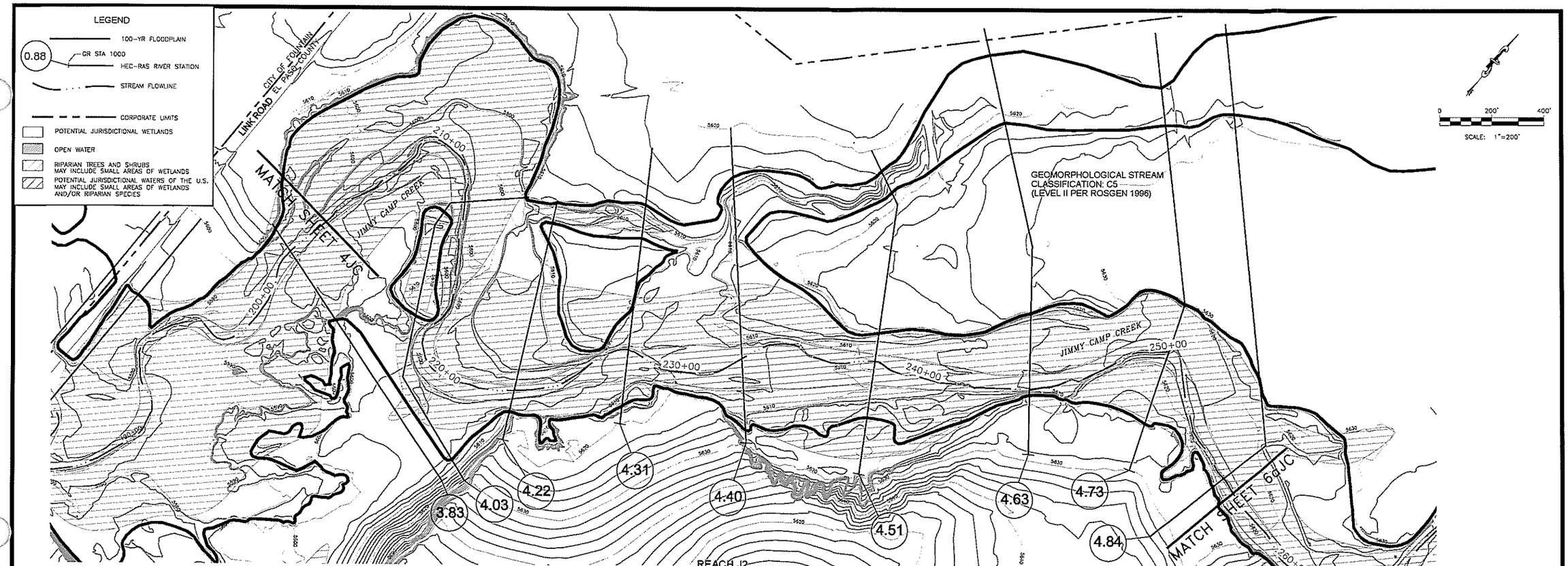

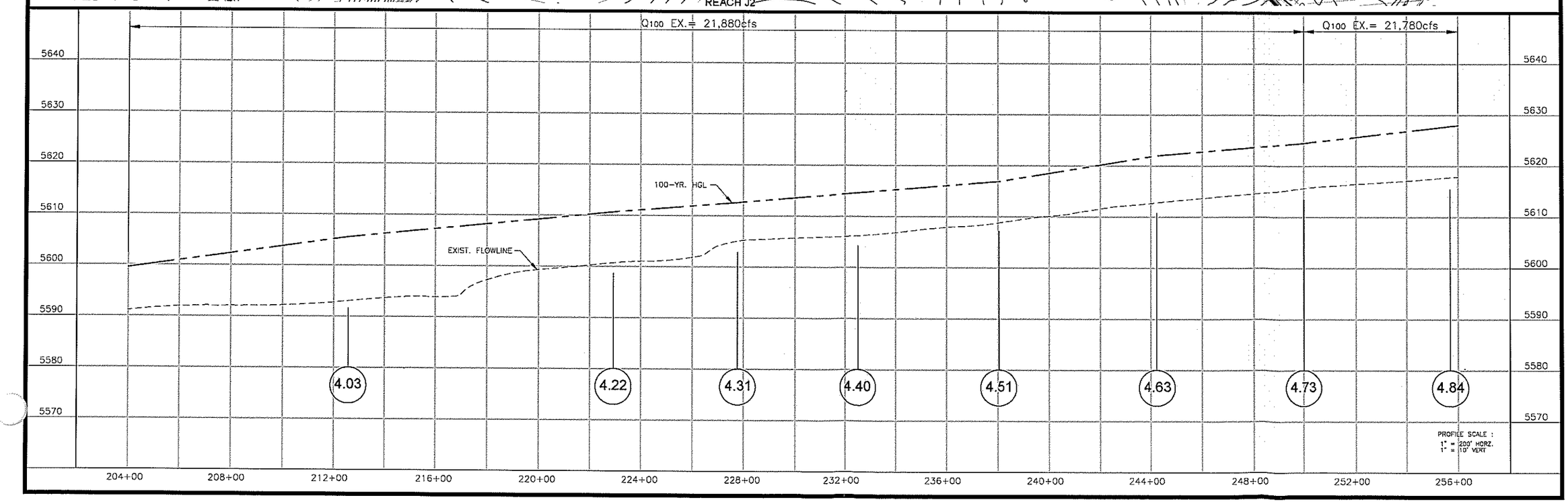

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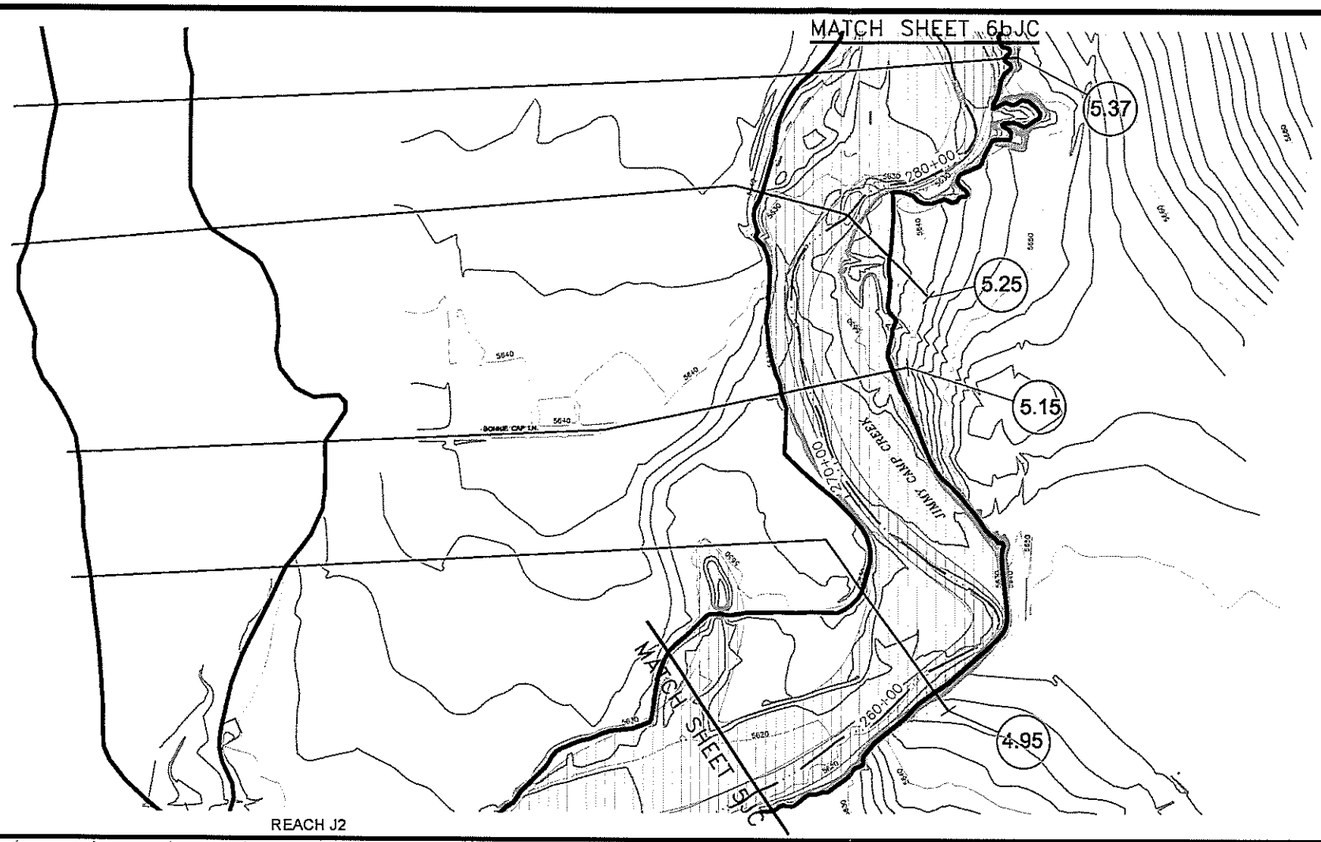

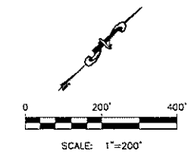

LEGEND

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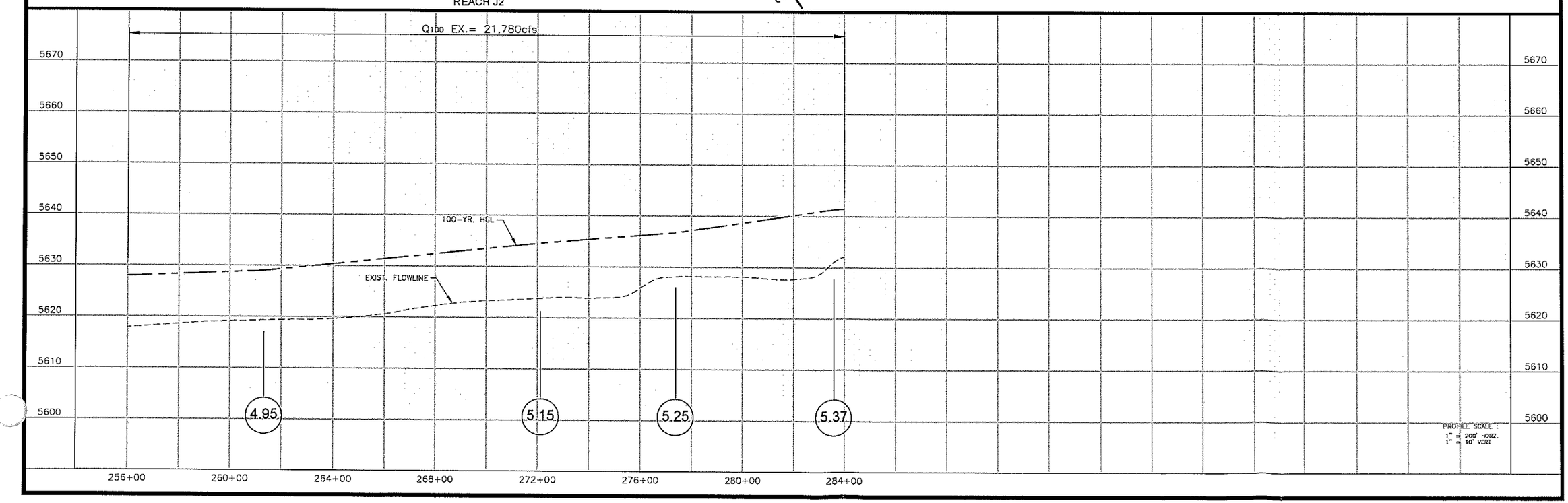
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



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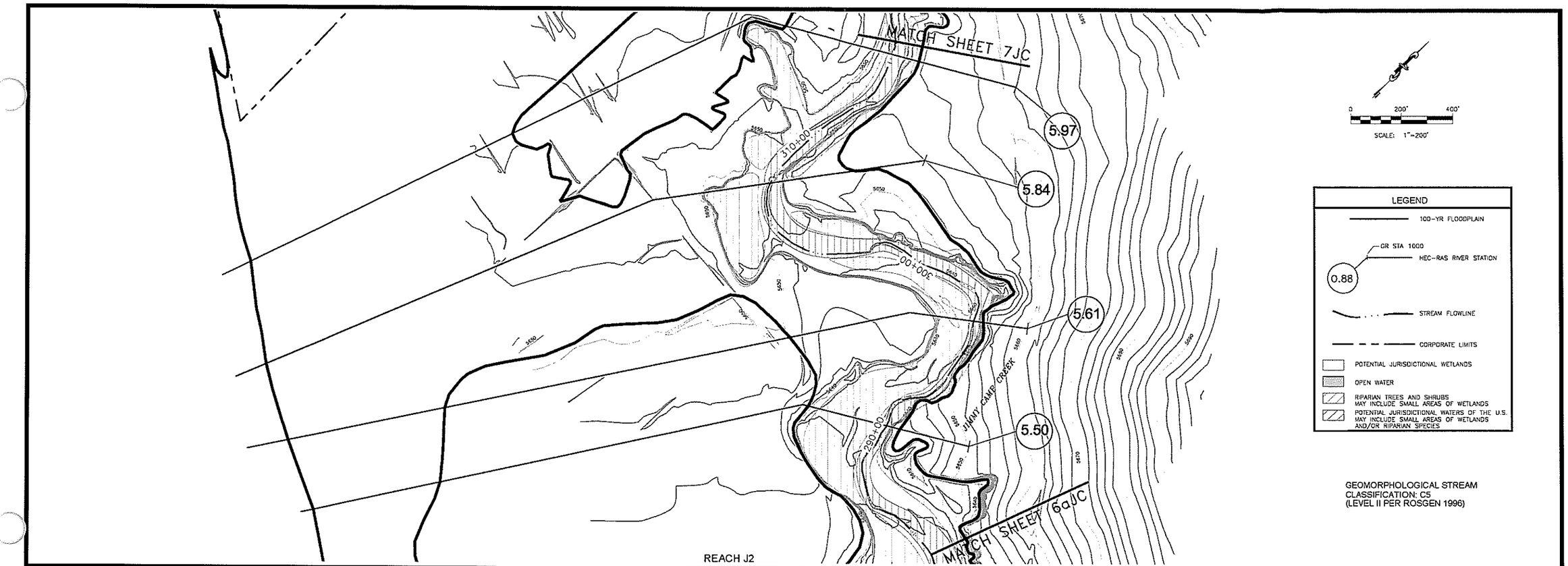

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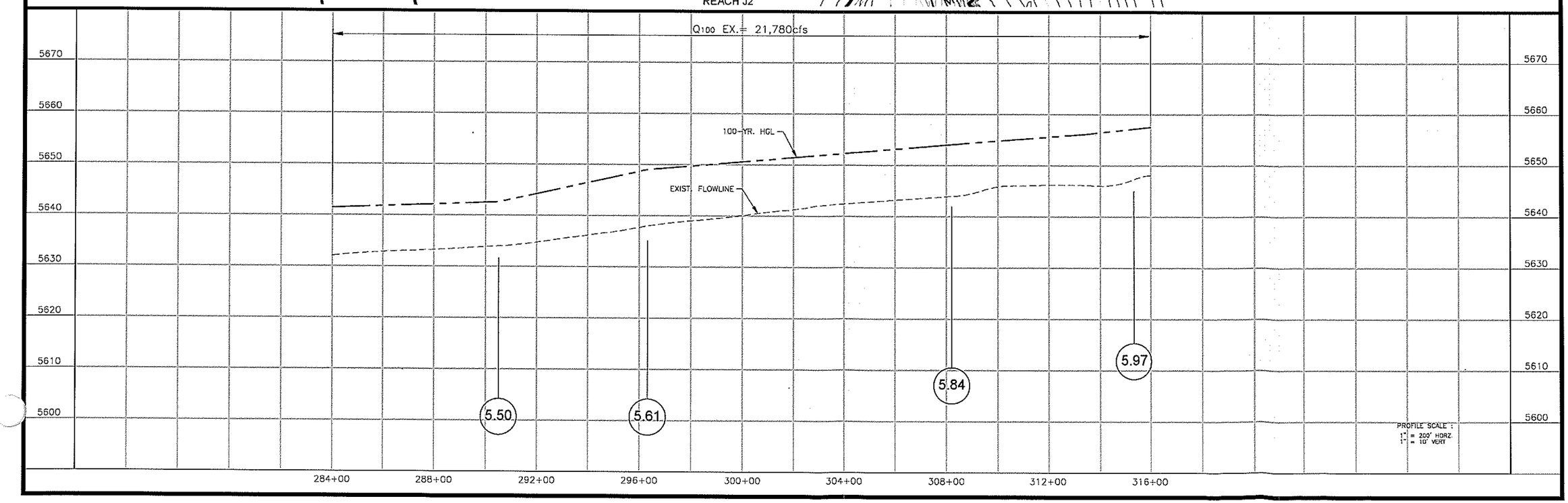

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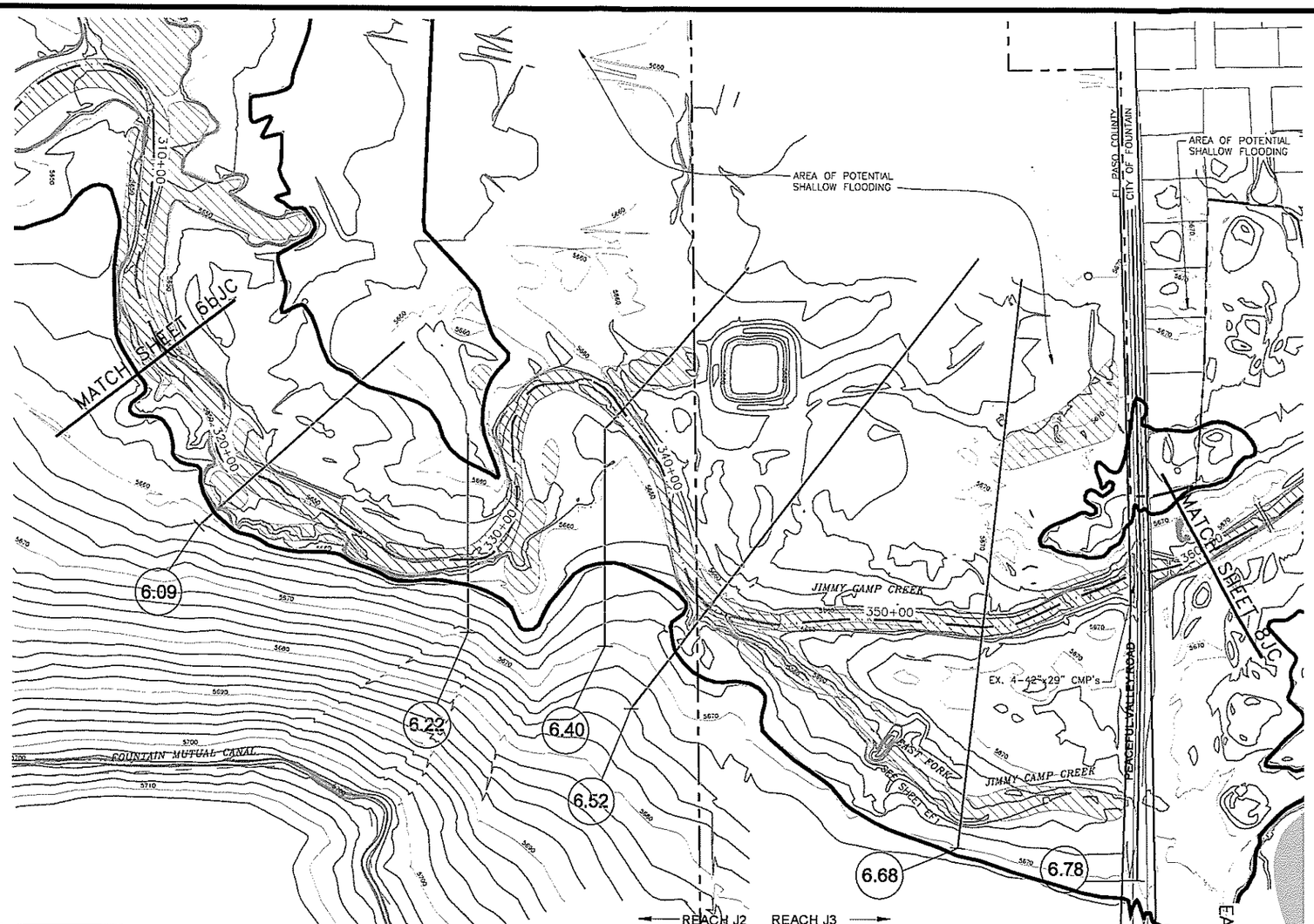

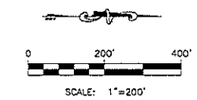

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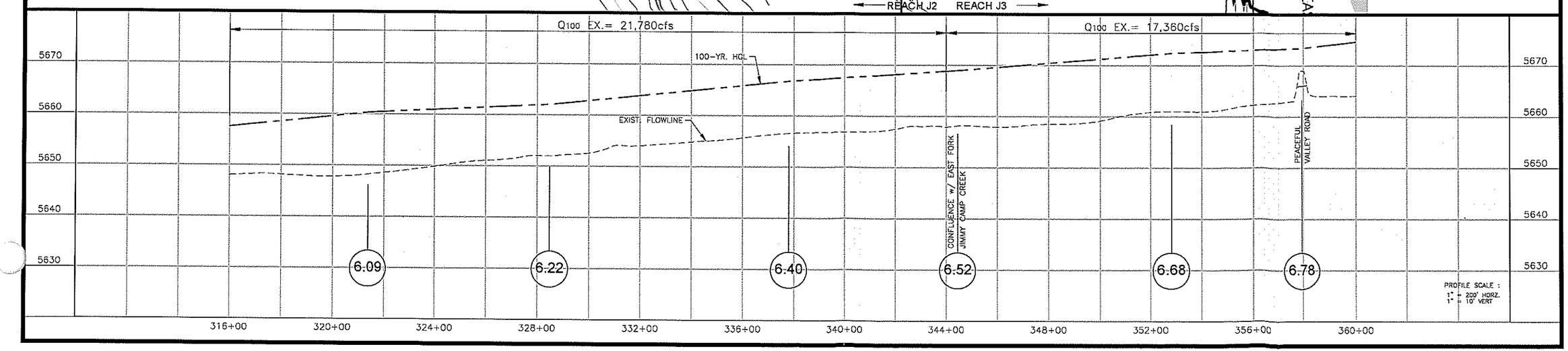

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JIMMY CAMP CREEK

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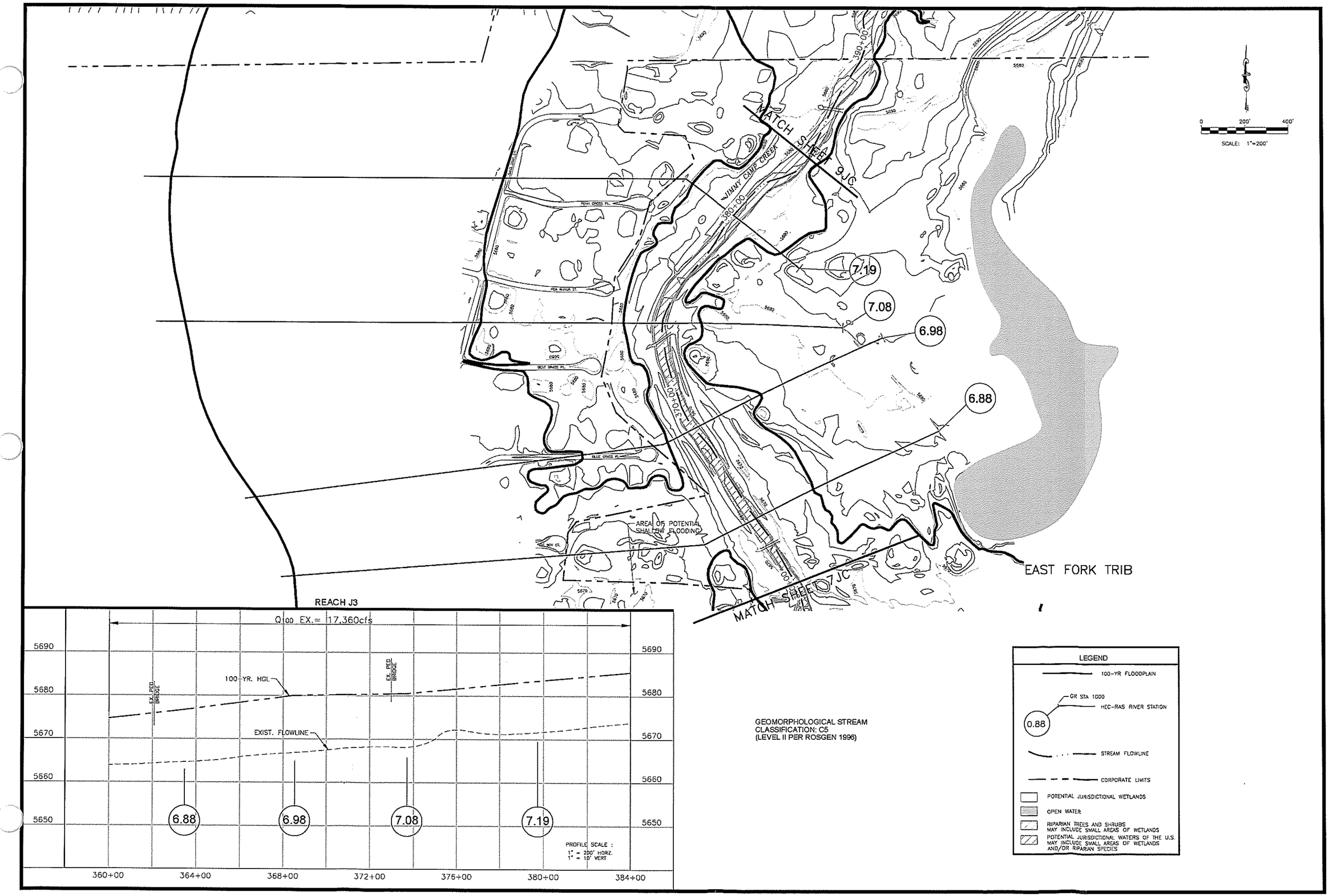

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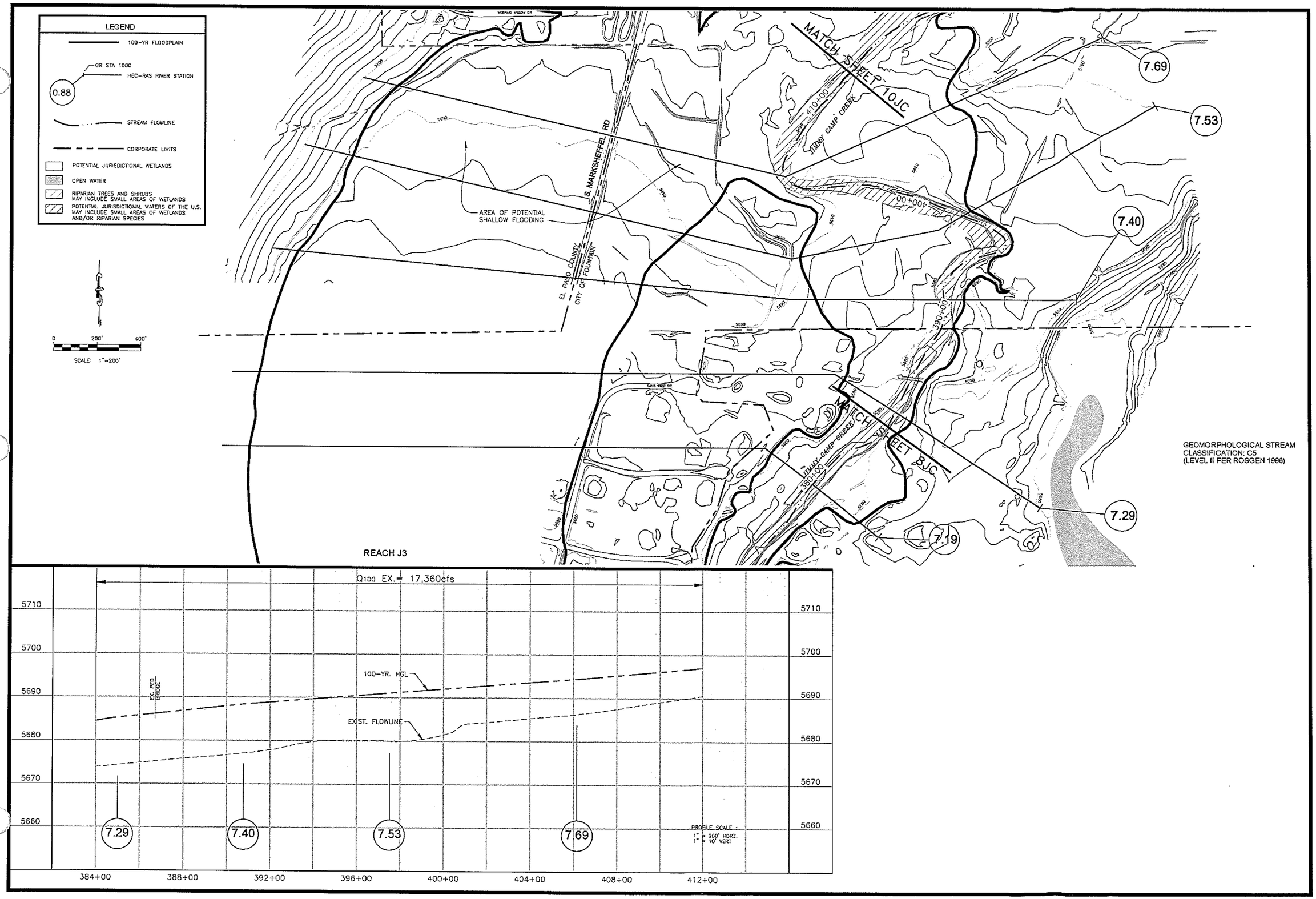

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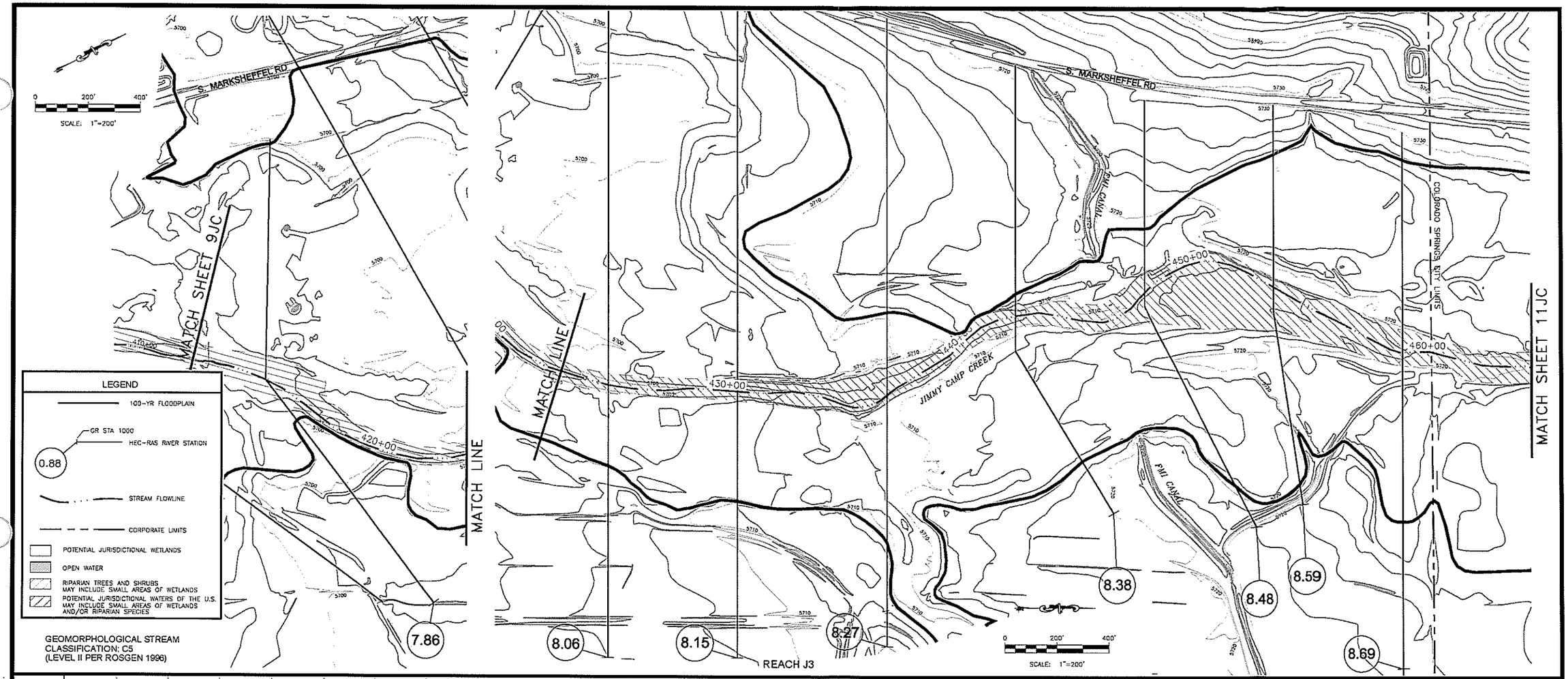

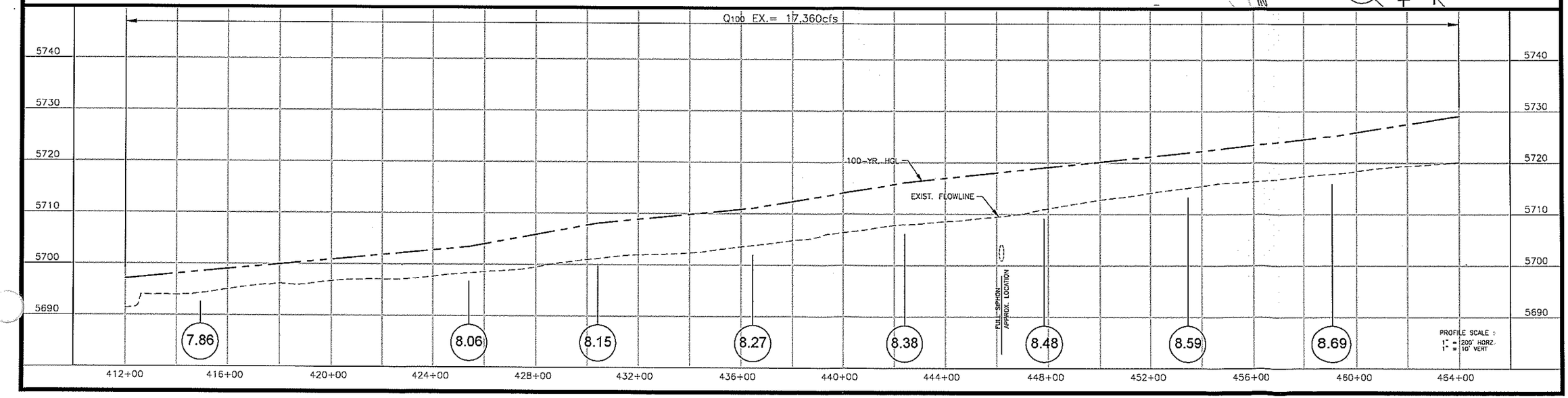

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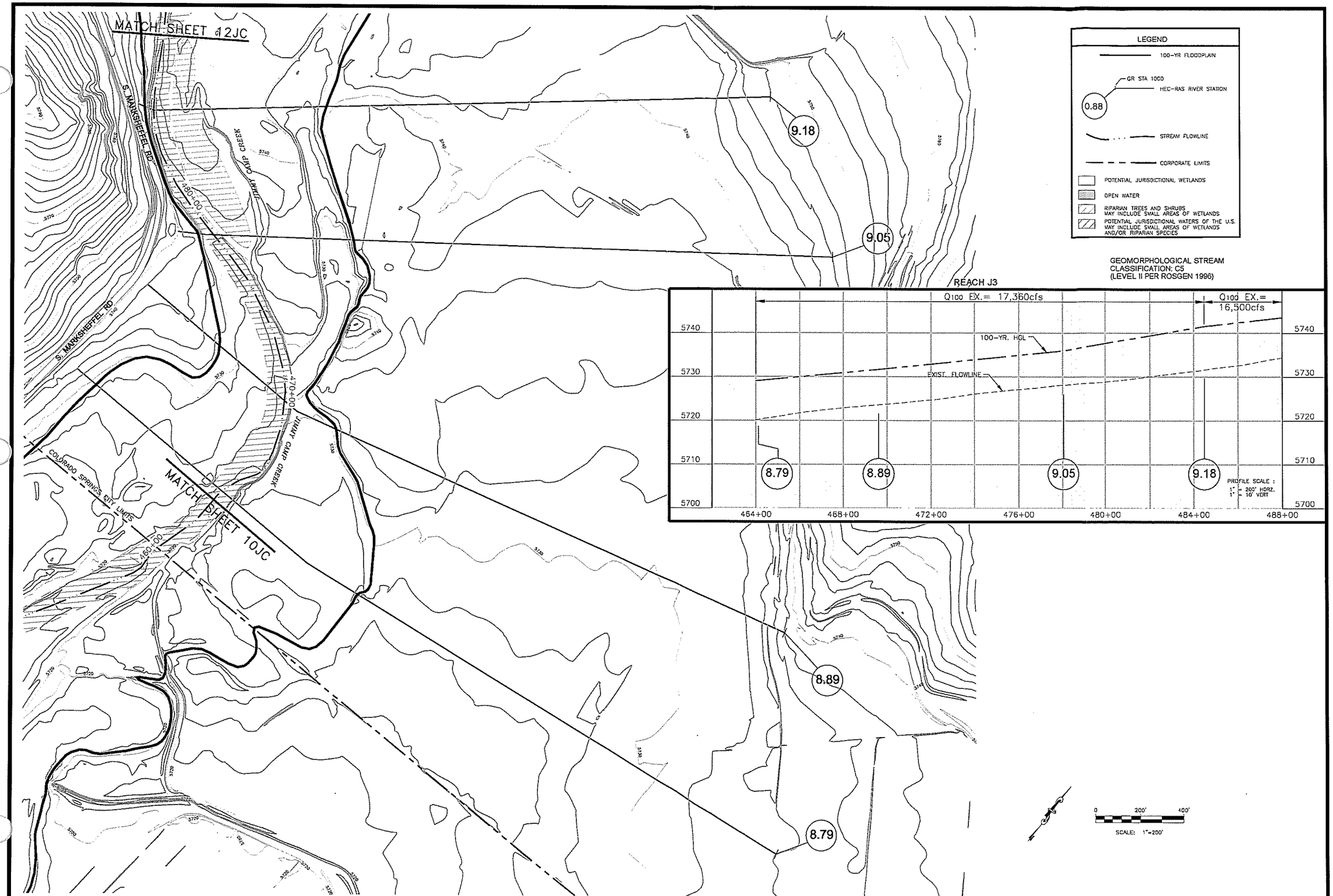

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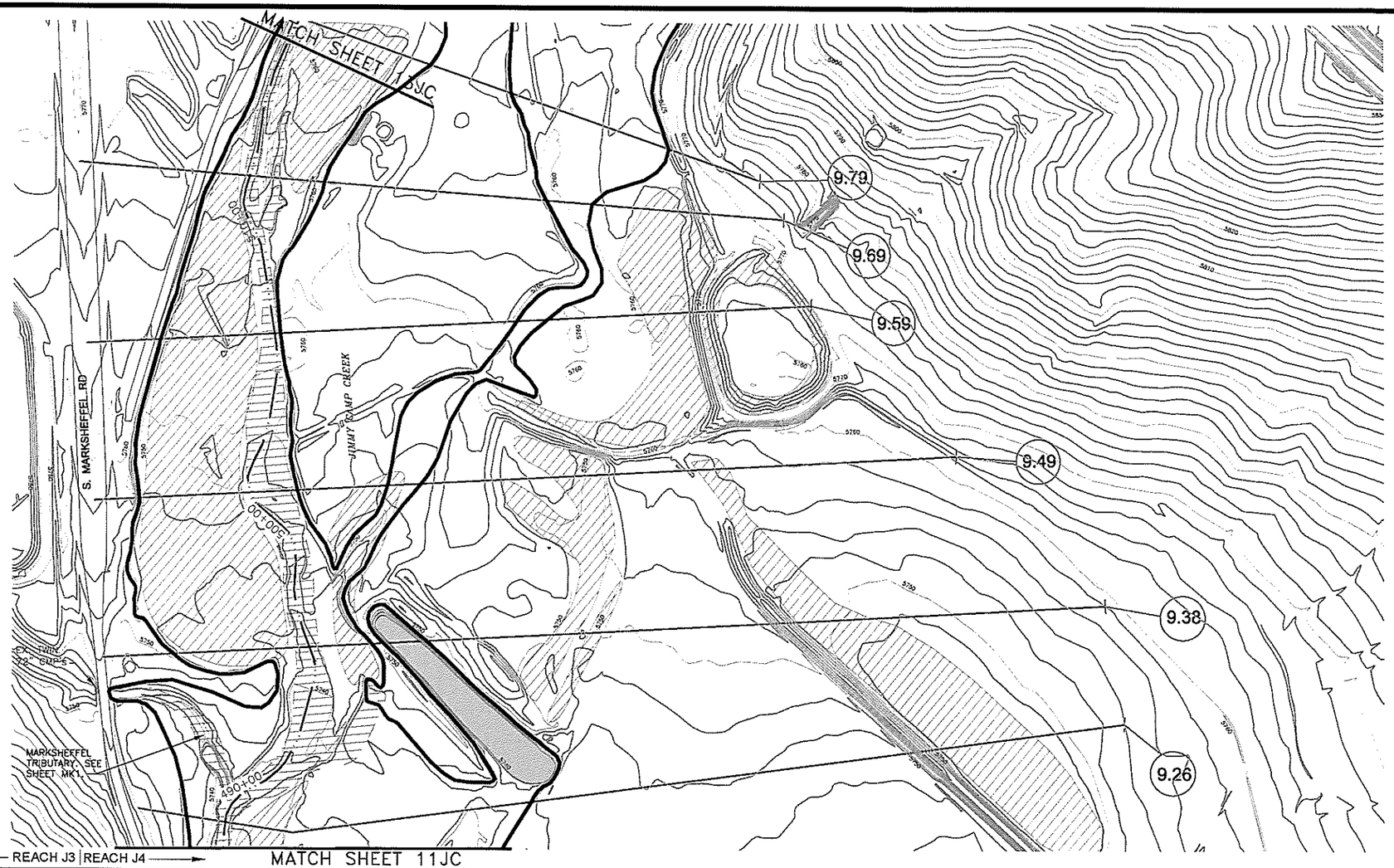

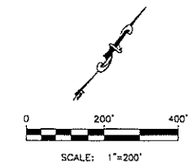

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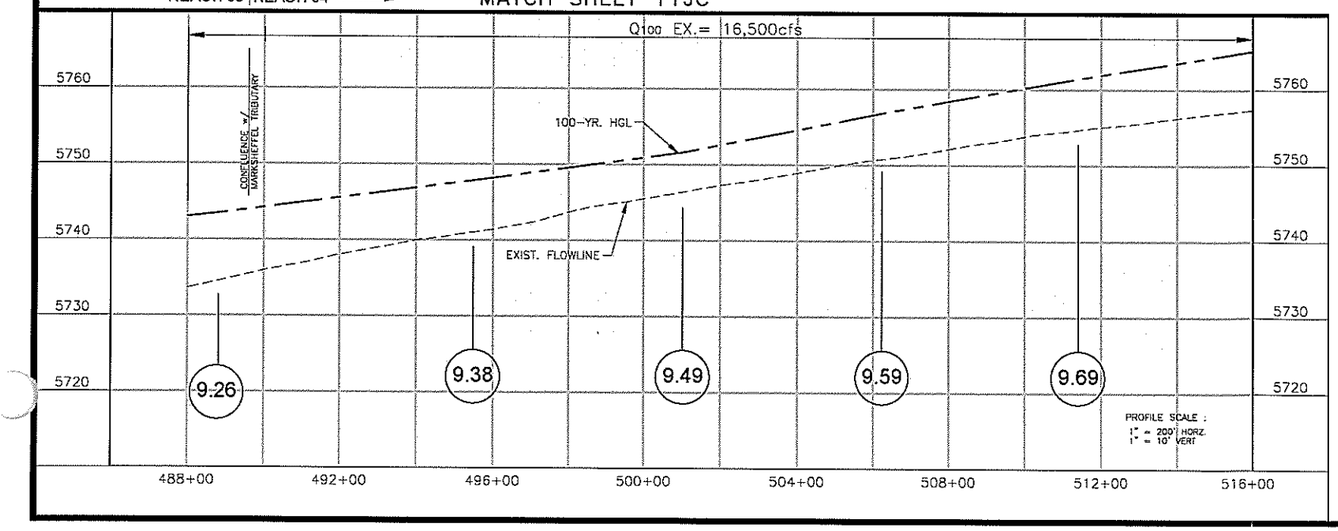
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



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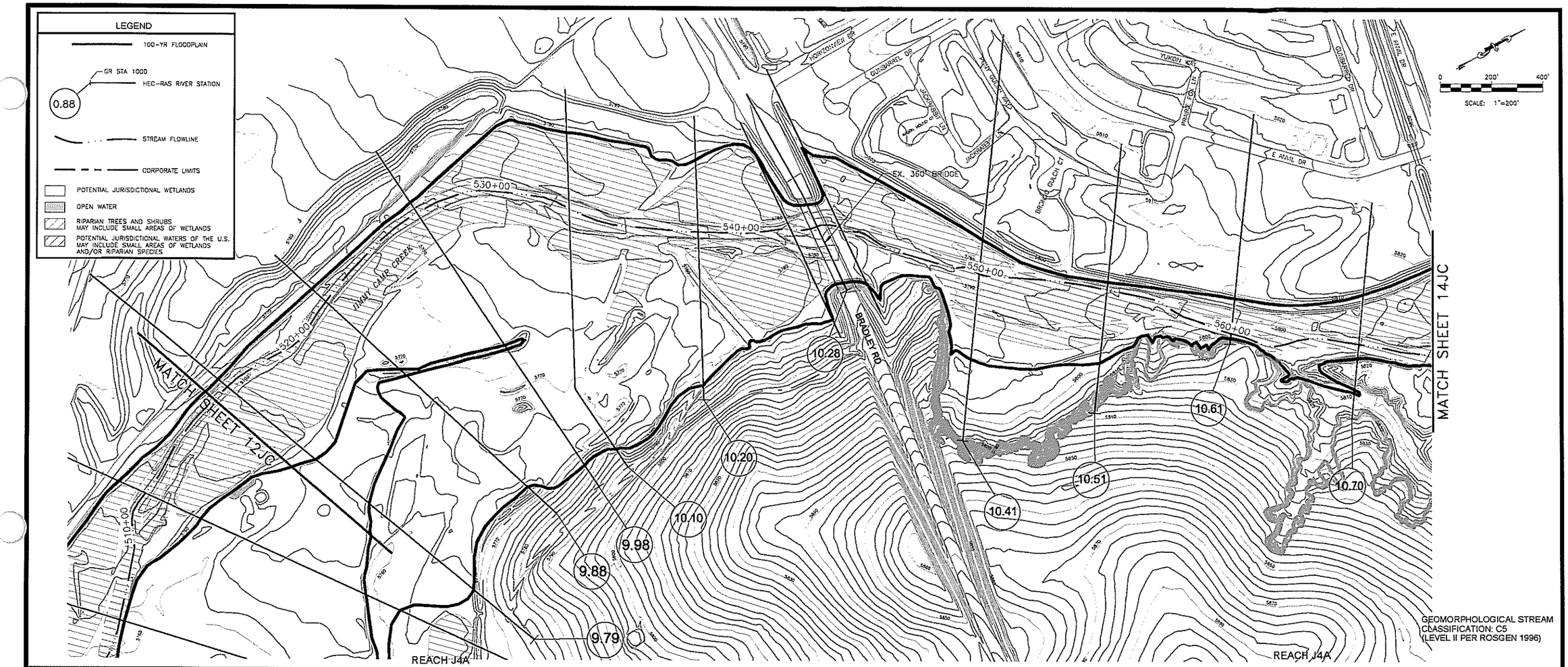

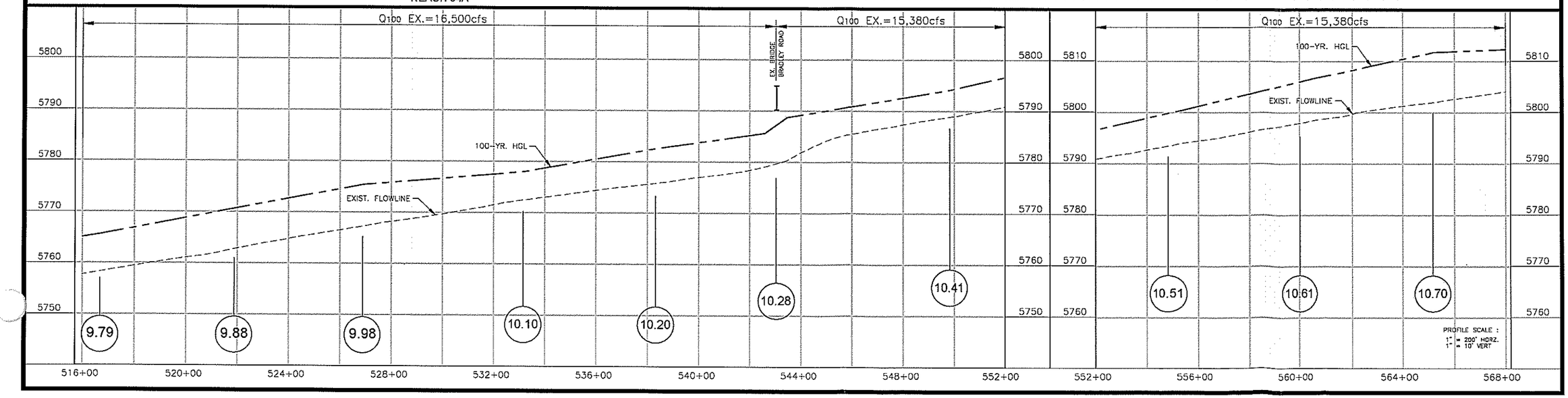

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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
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Revisions:	

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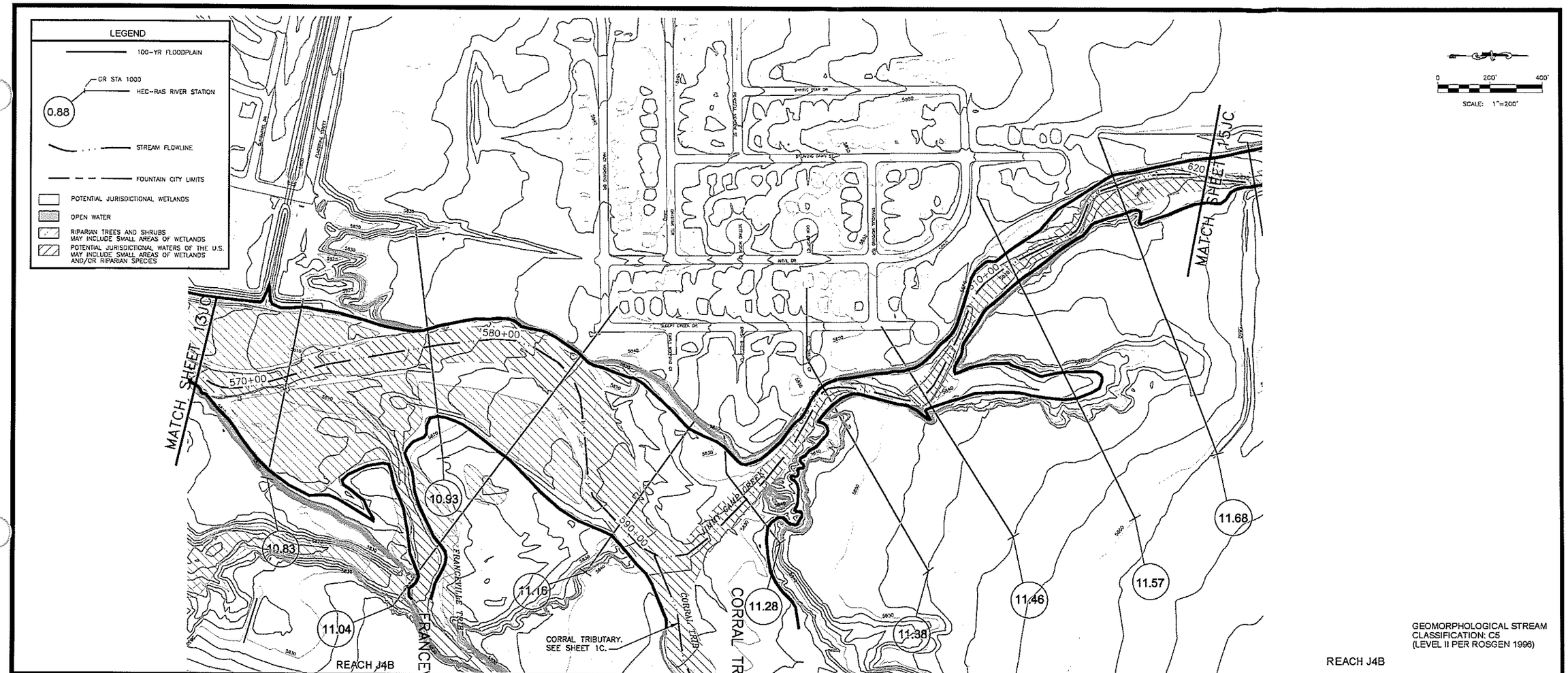
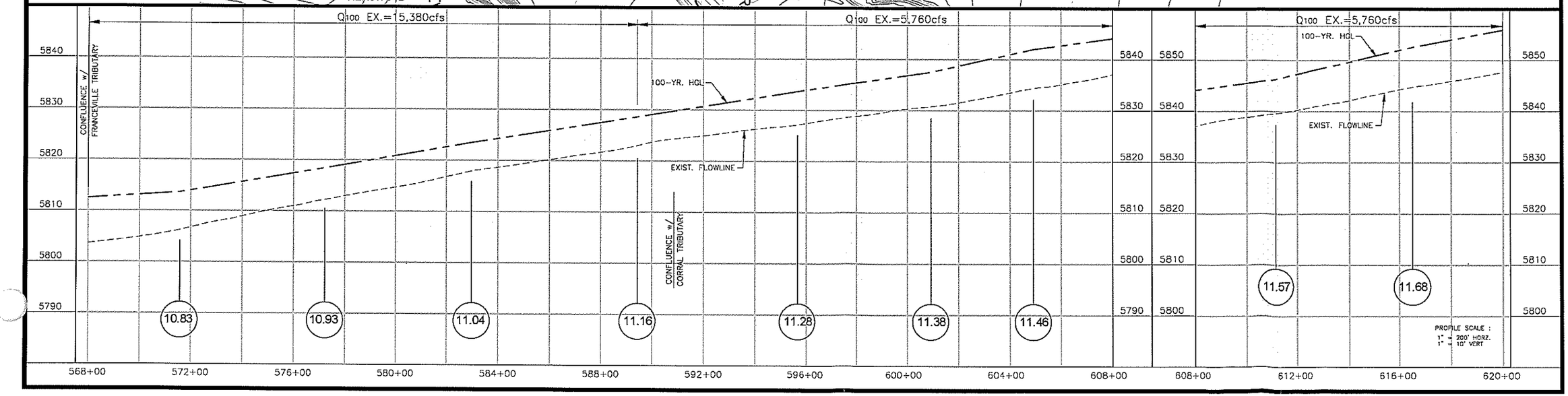
14008-13JC-7845fpp.dwg/May 20, 2014





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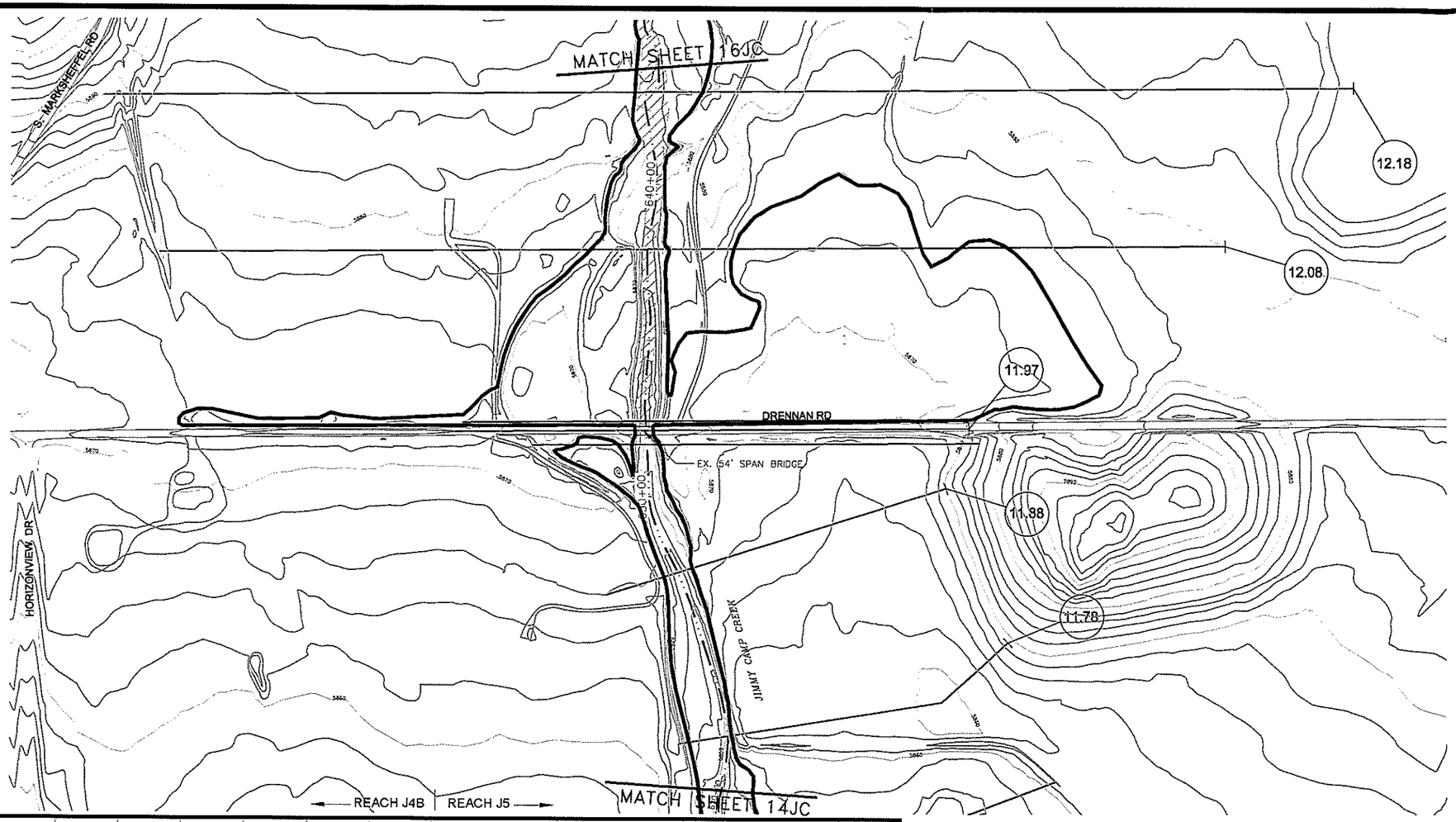
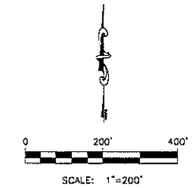
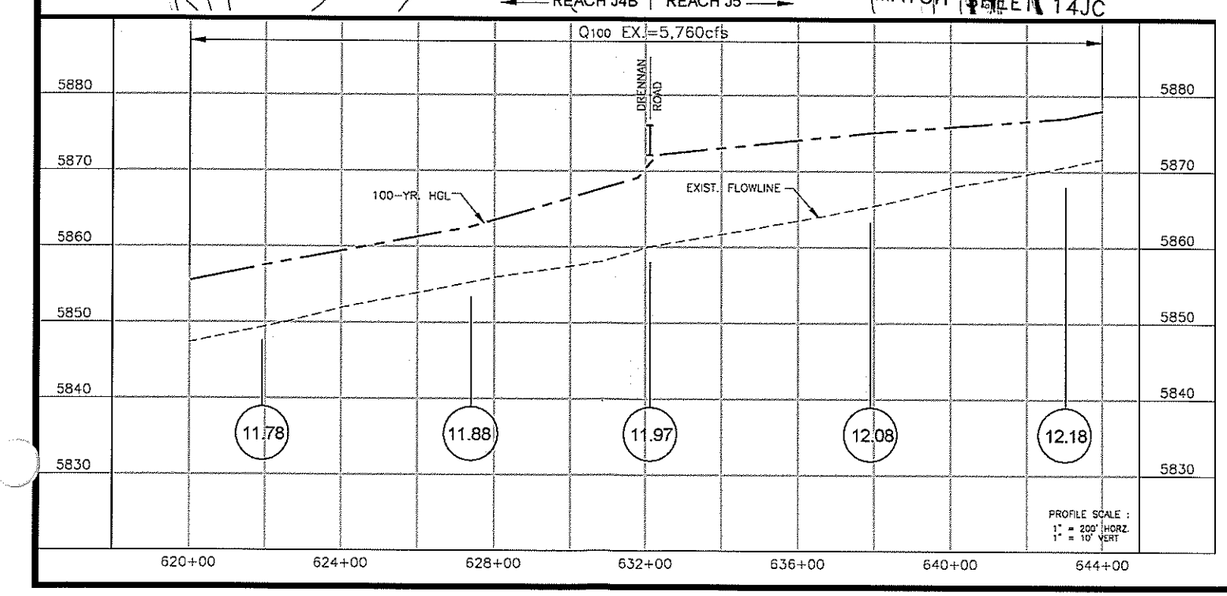




GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

LEGEND

- 100-YR FLOODPLAIN
- 0.88 — GR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES



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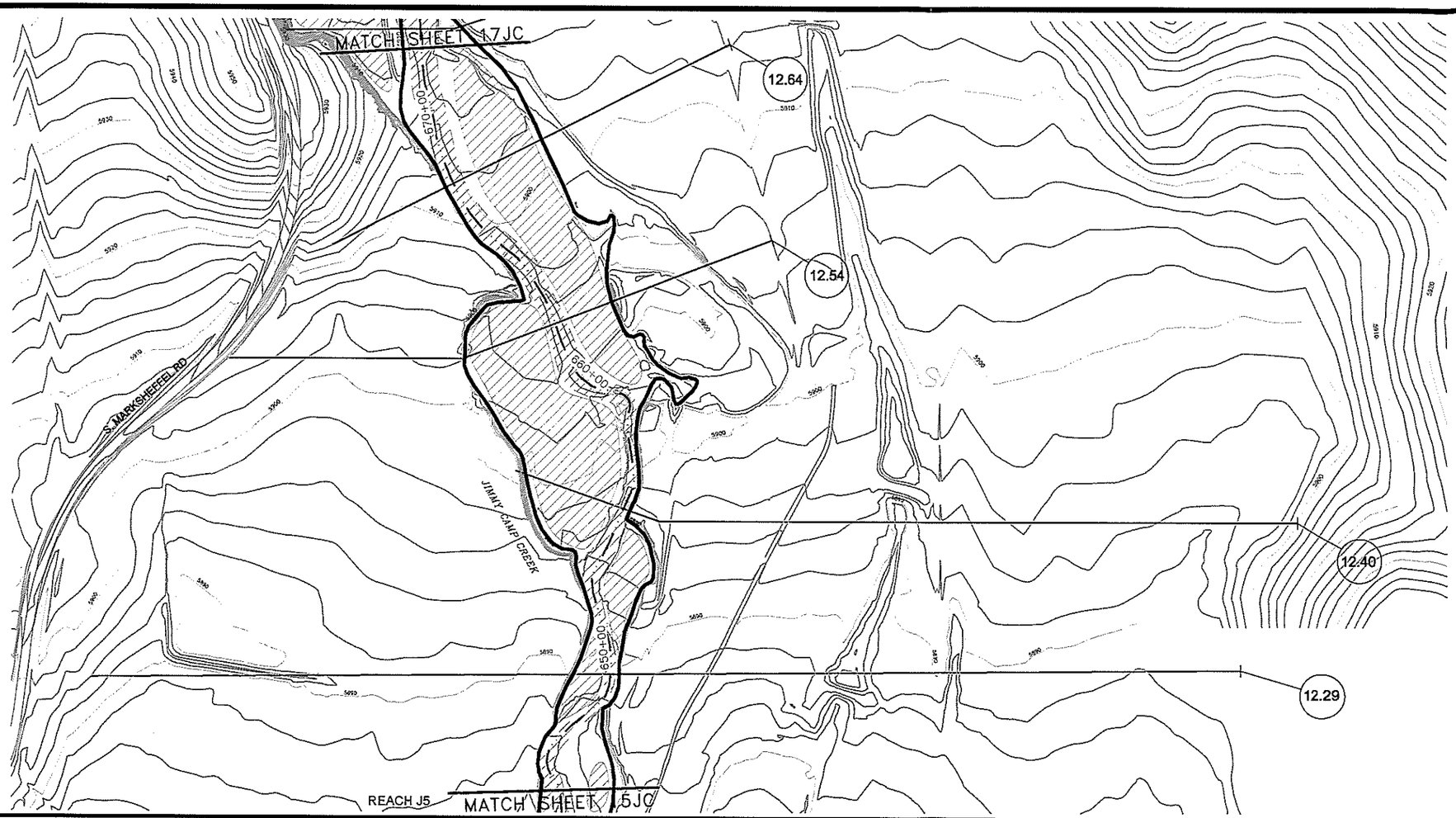
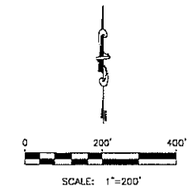
14008-15JC-795fpp.4+g/May 20, 2014





LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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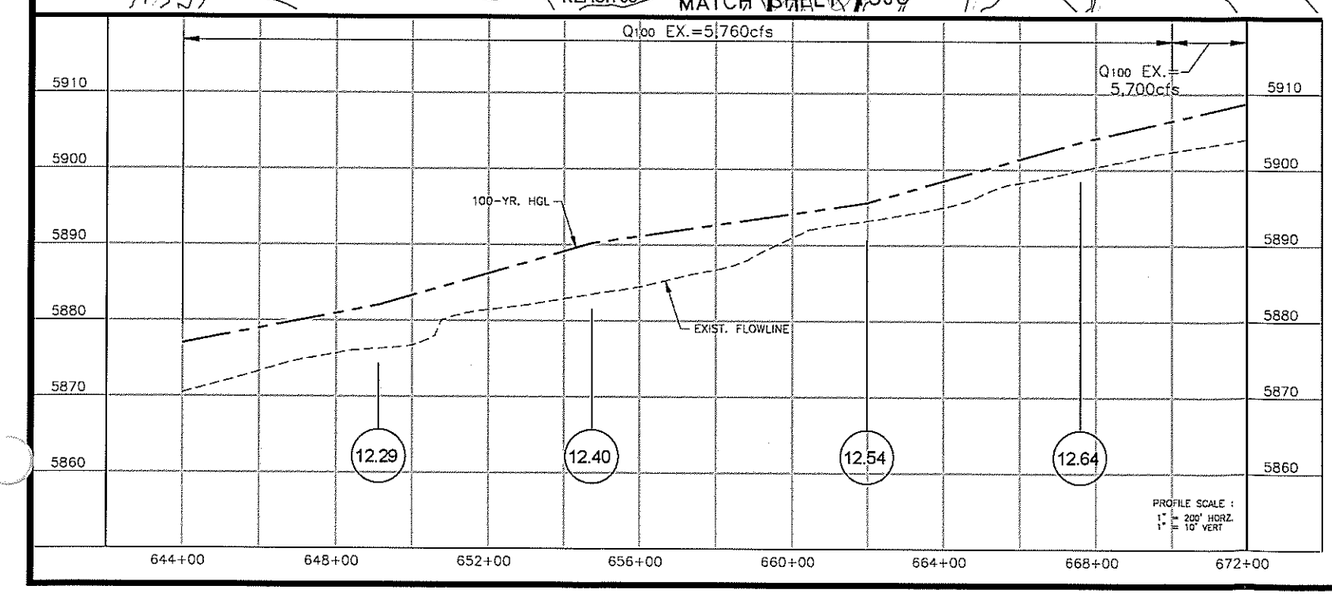
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)



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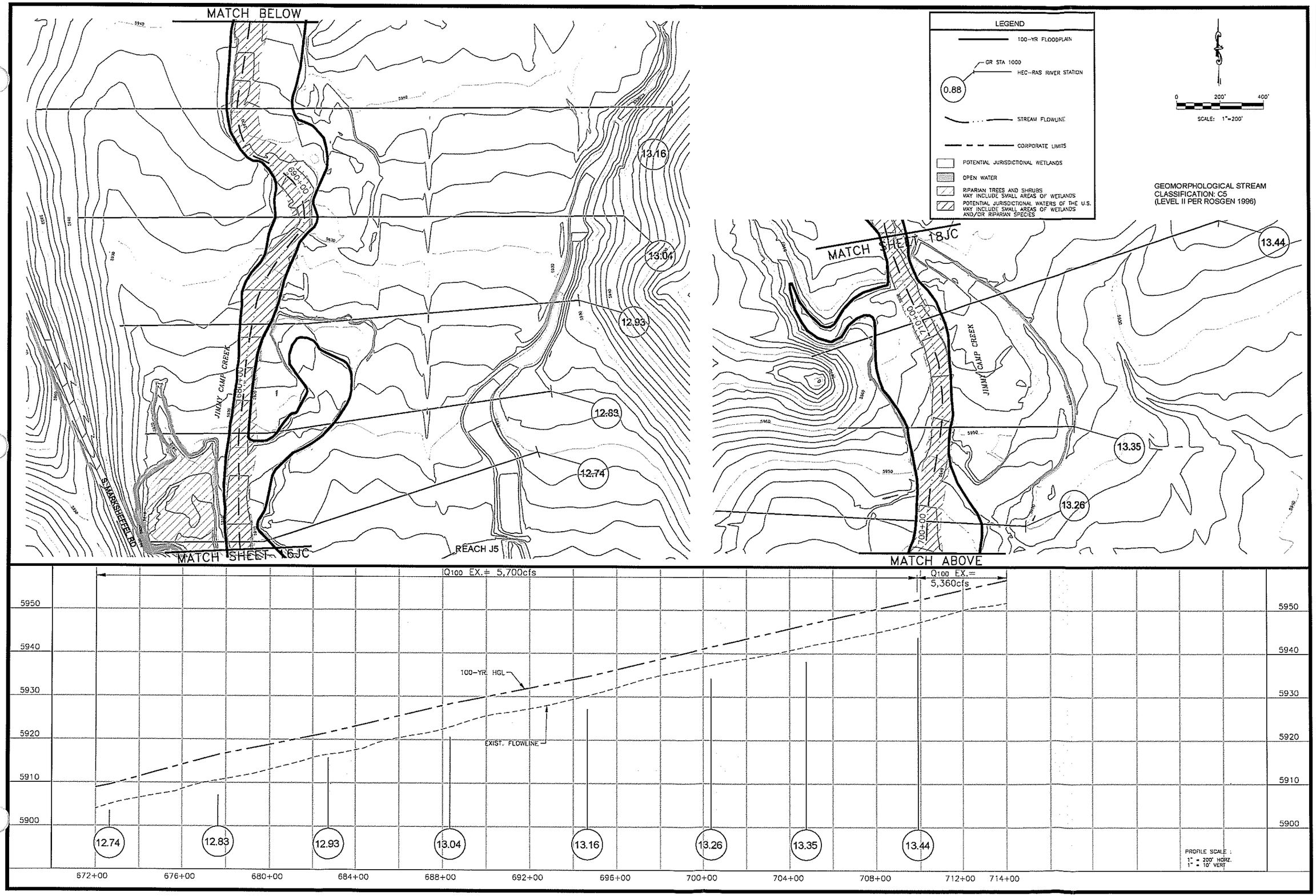

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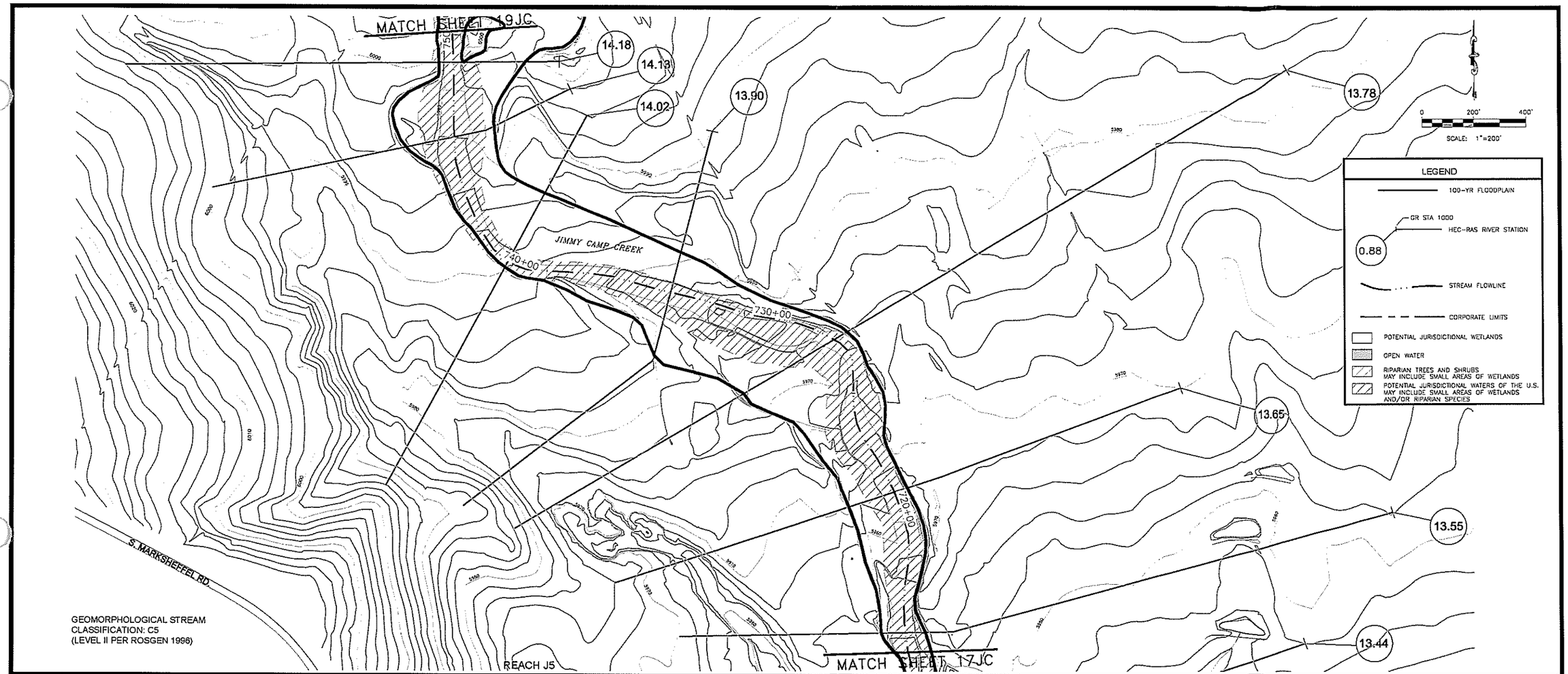

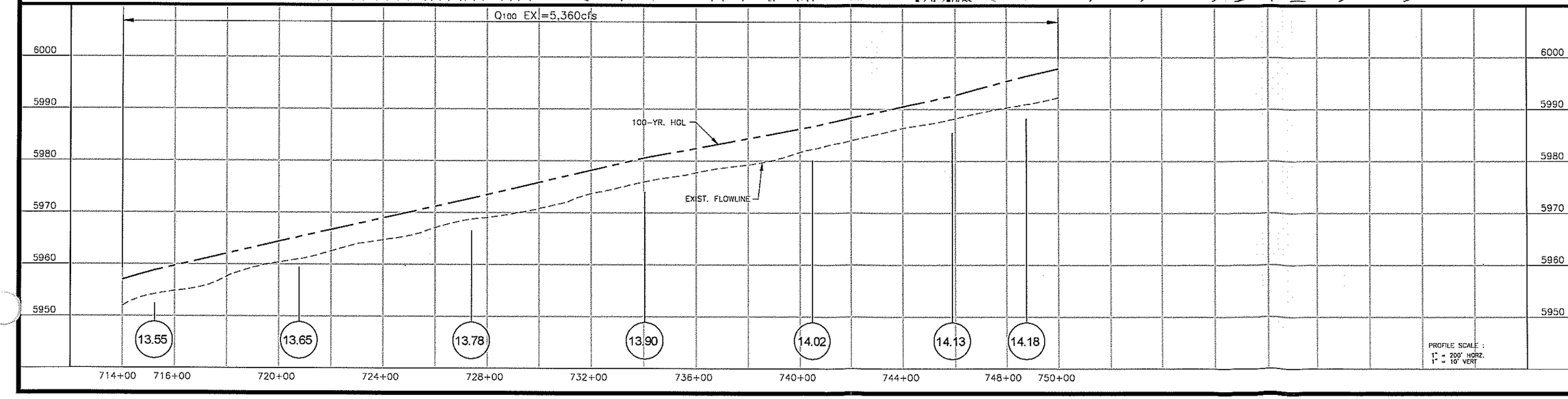

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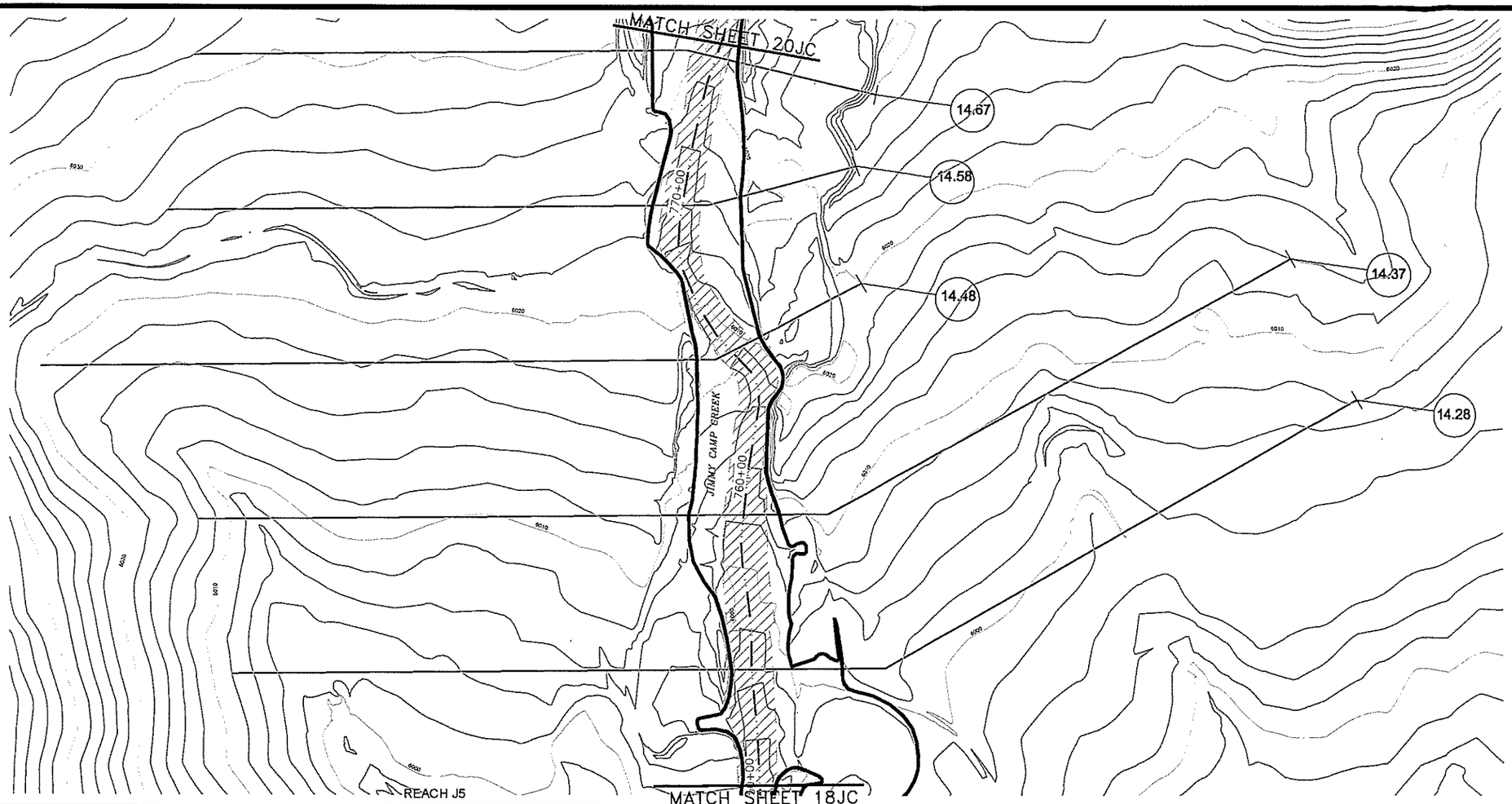
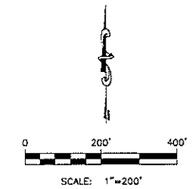
14008-18JC-B245fpp.dwg/May 20, 2014

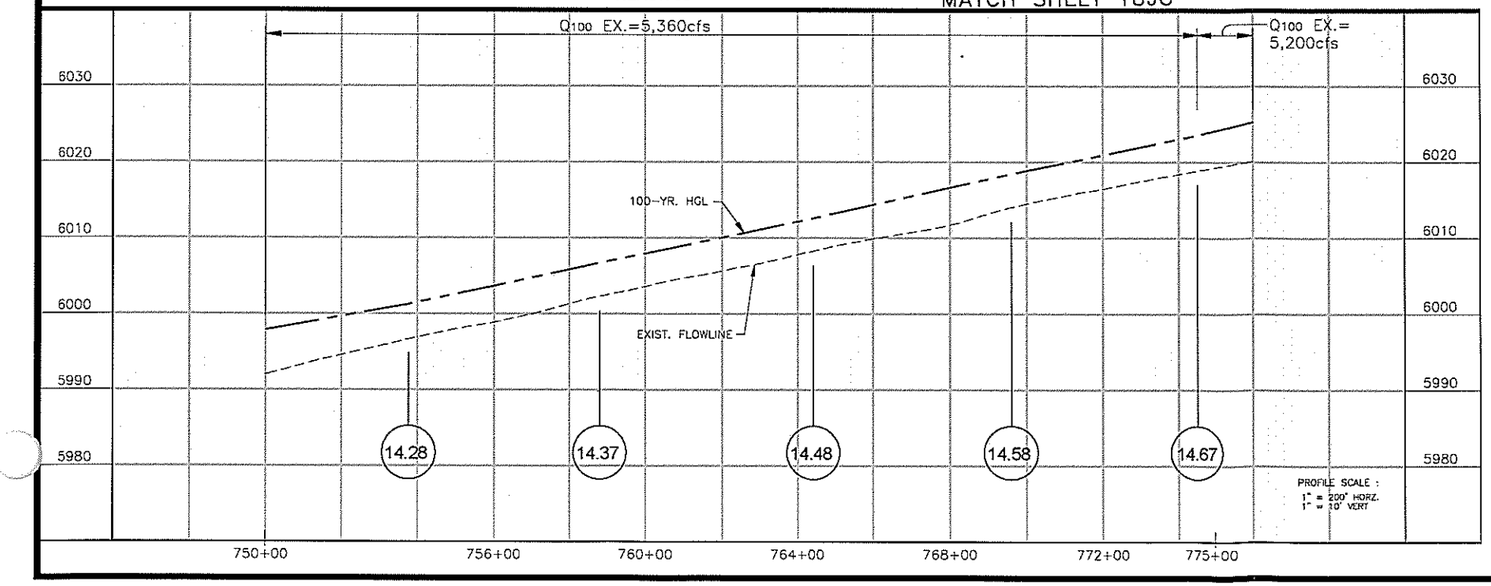




GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES



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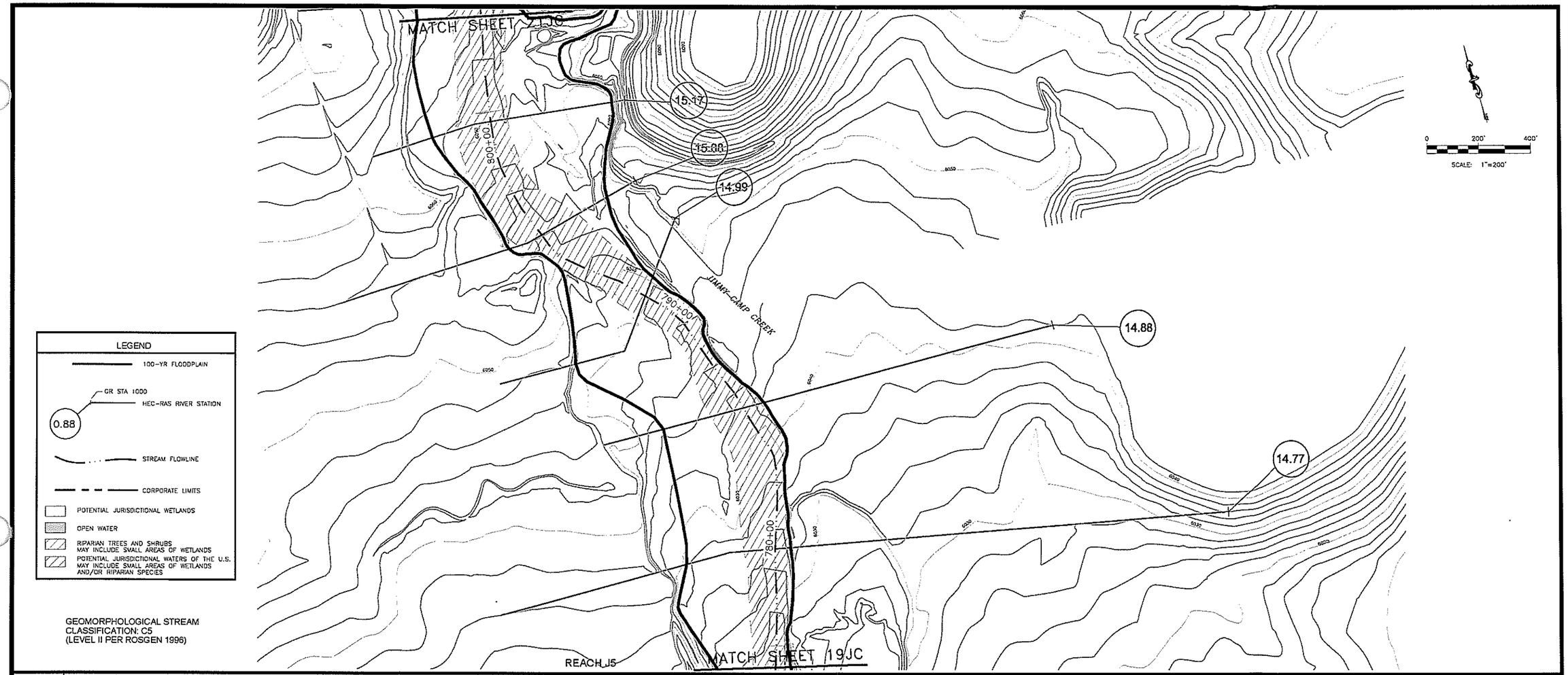

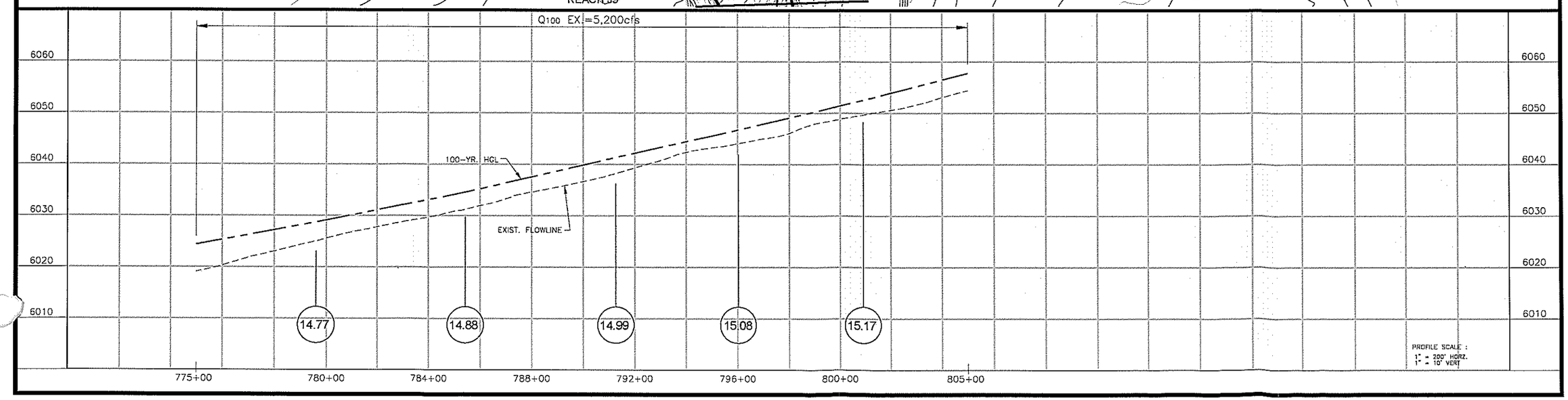

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FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
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20JC
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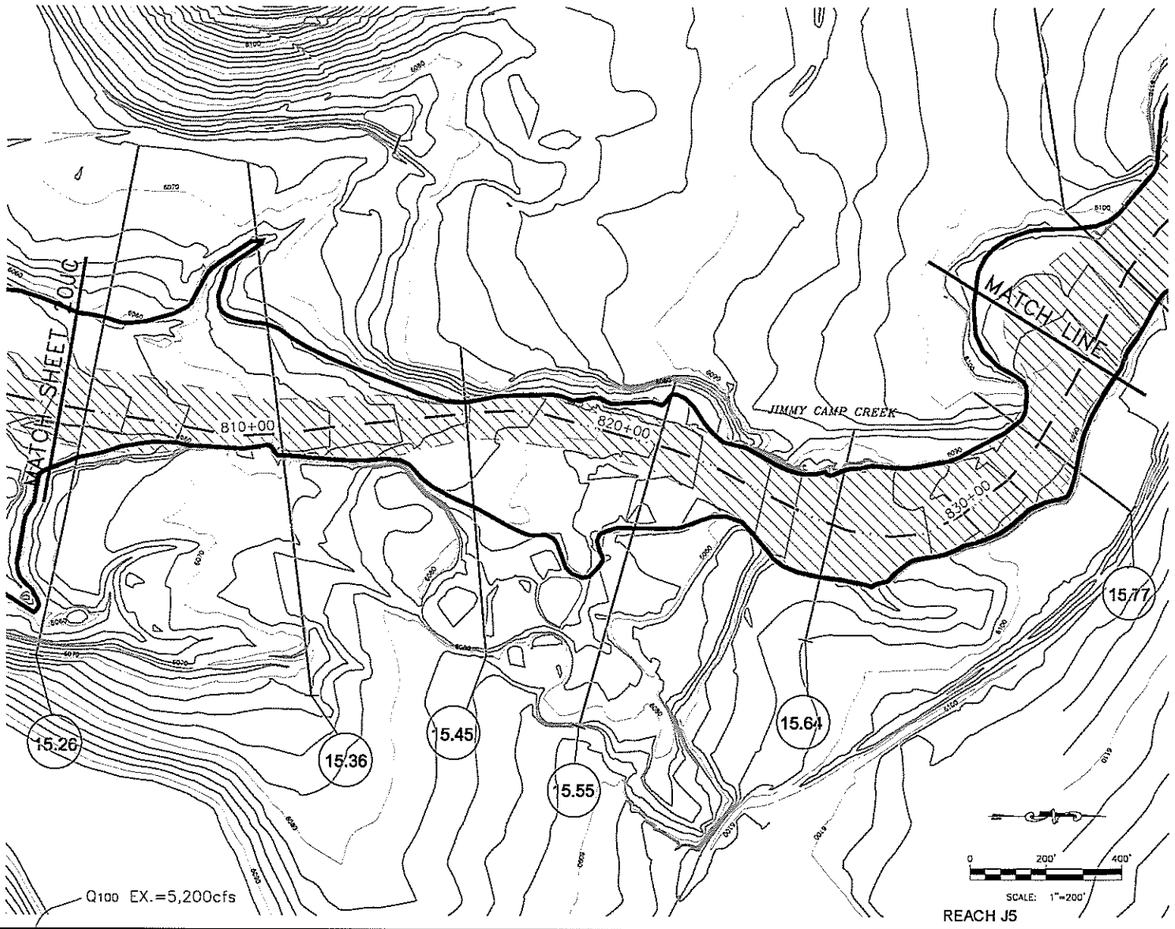
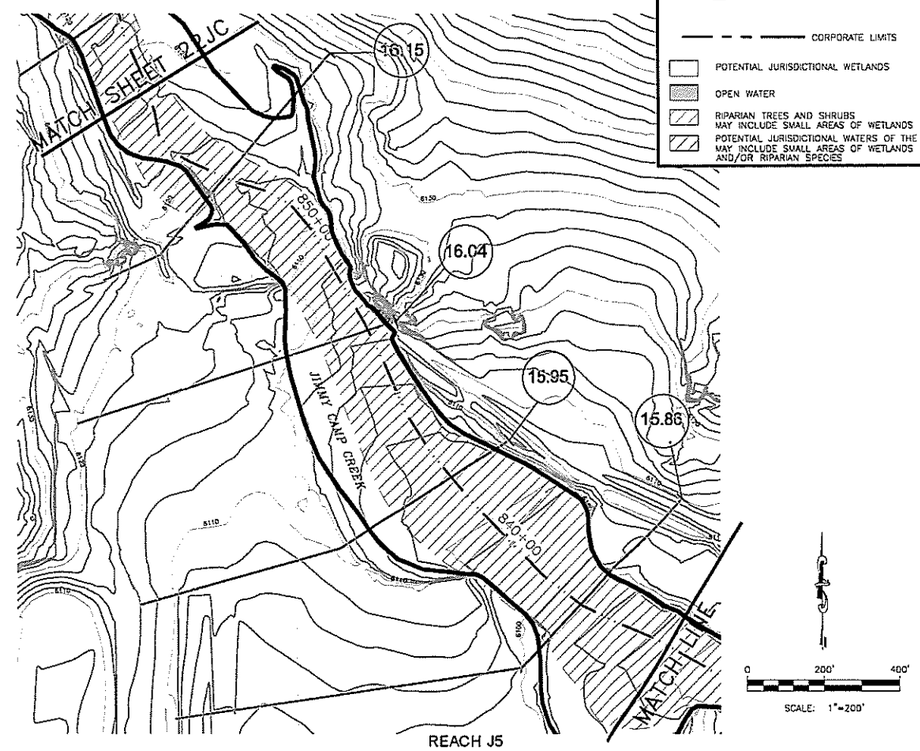
14008-20JC-338fop.dwg/May 20, 2014



GEOMORPHOLOGICAL STREAM
CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
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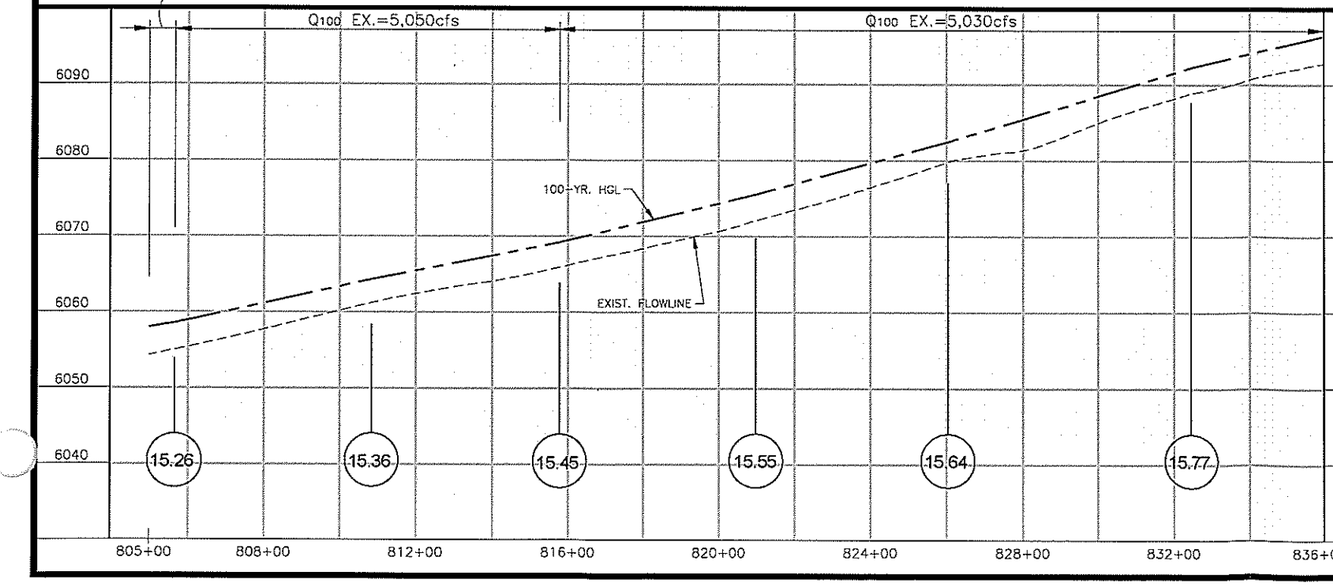

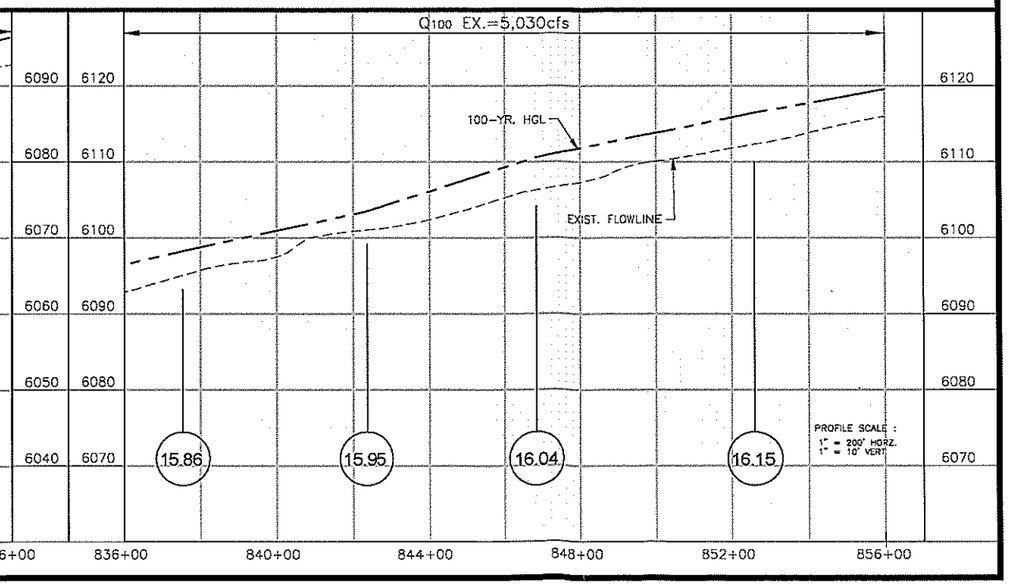

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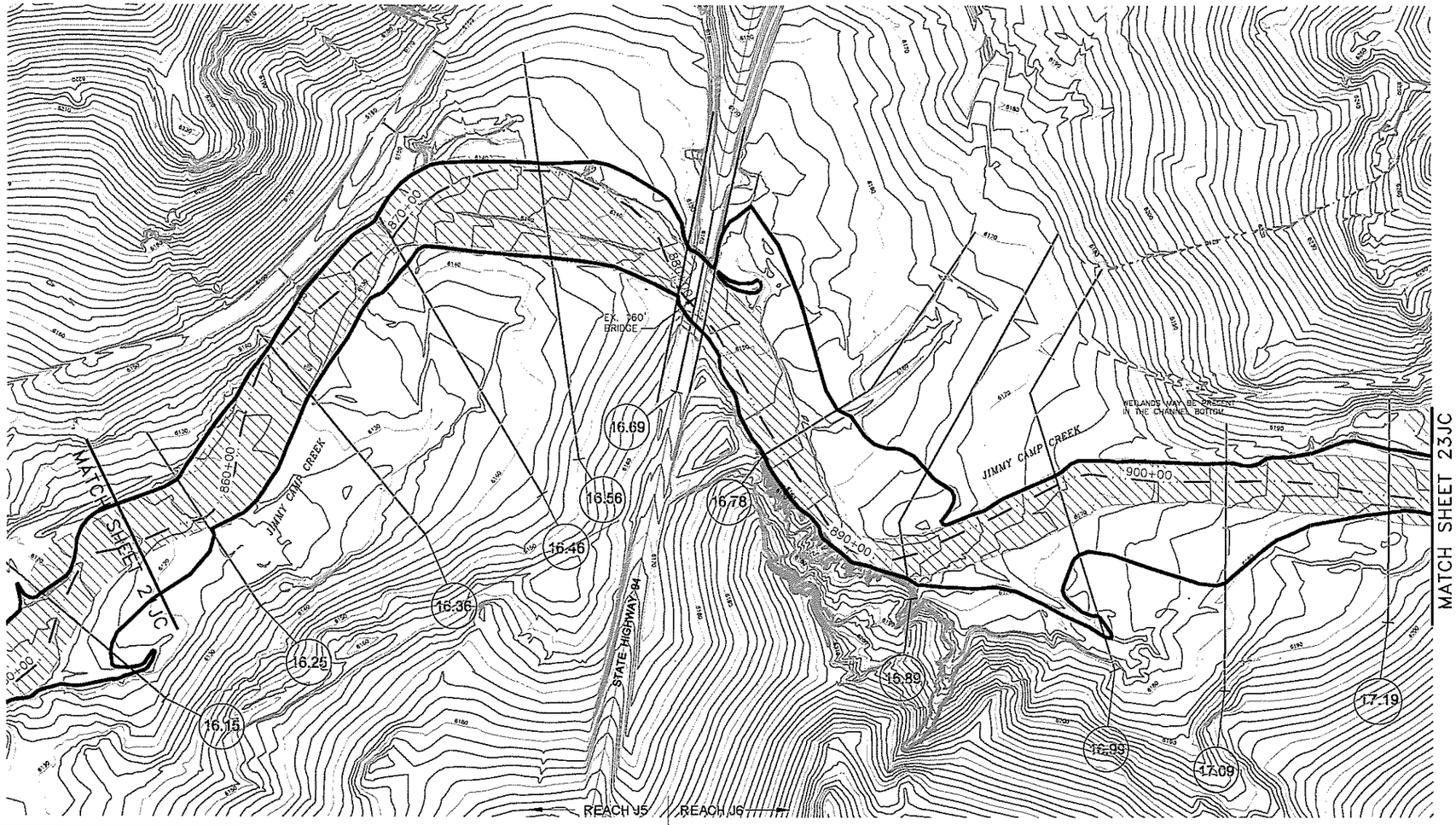
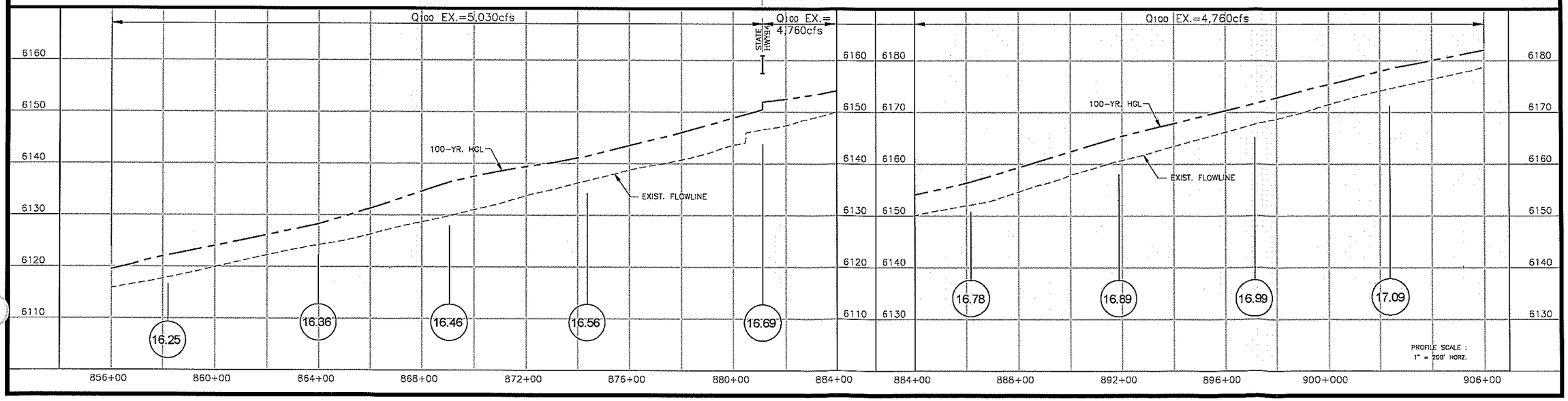
LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- FOUNTAIN CITY LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)





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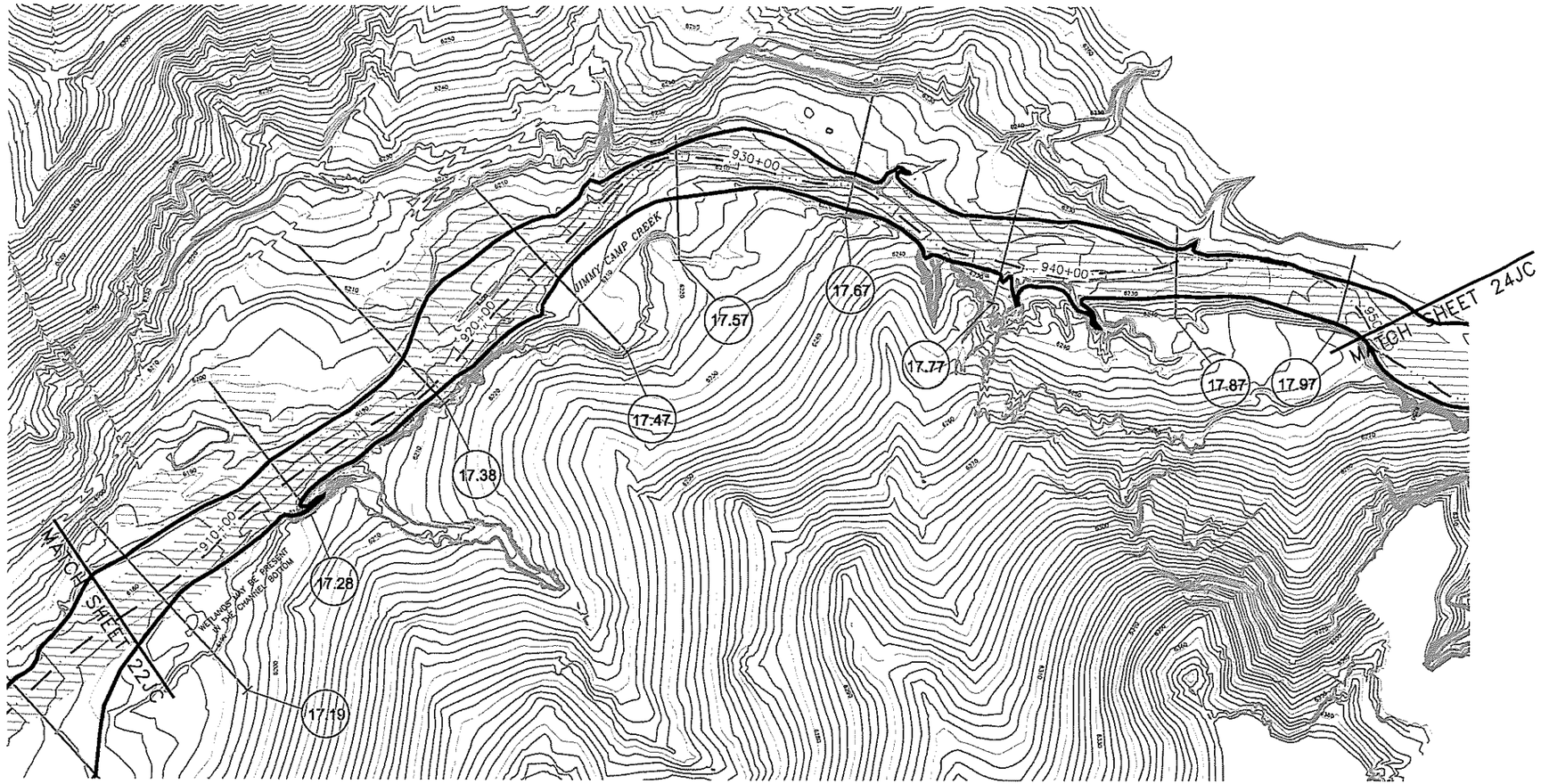
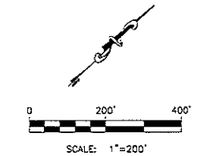
14008-22JC-360fpp.dwg/May 20, 2014





GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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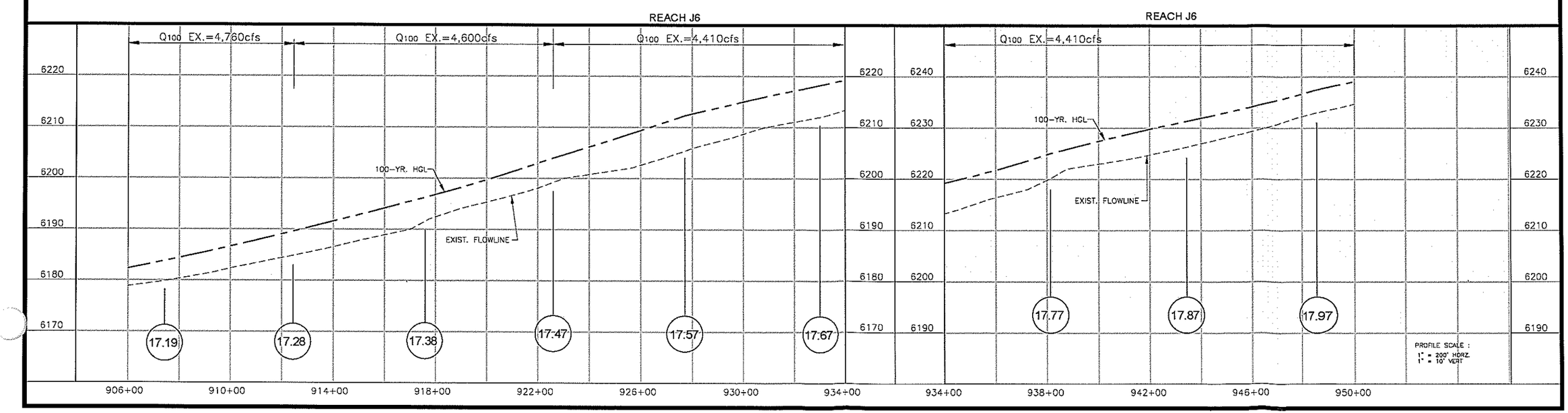

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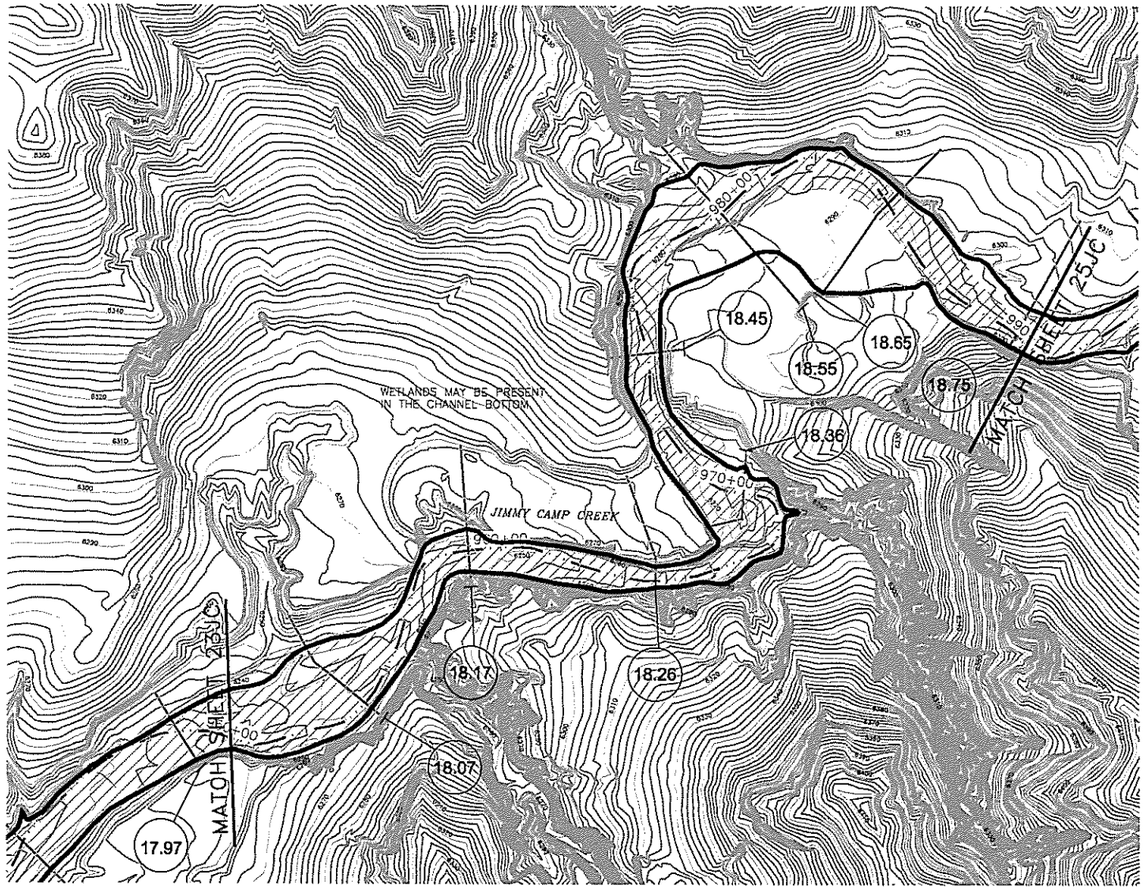

0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)

LEGEND

- 100-YR FLOODPLAIN
- 0.88 — GR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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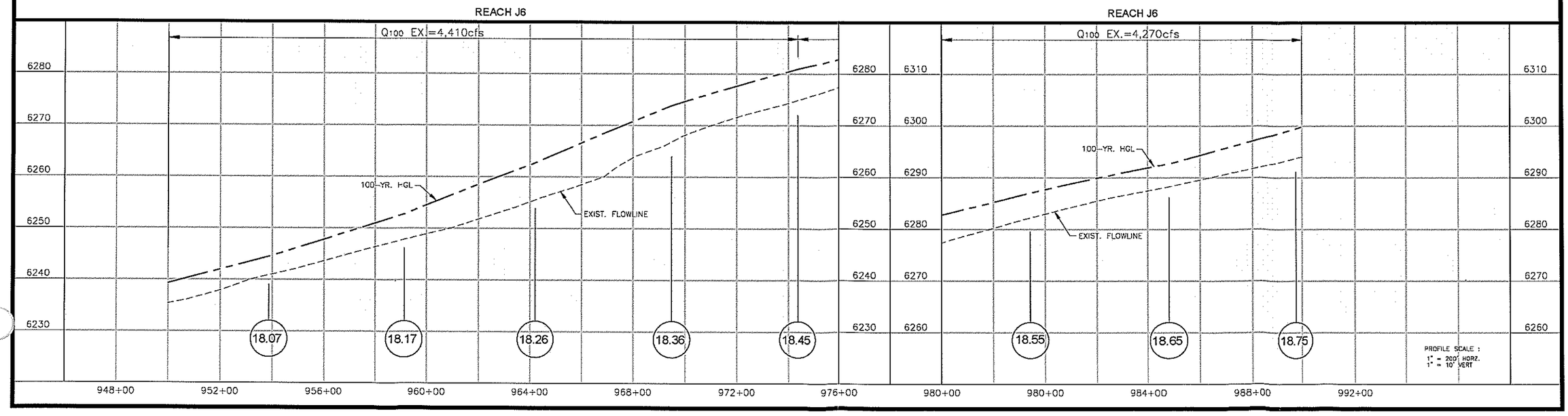

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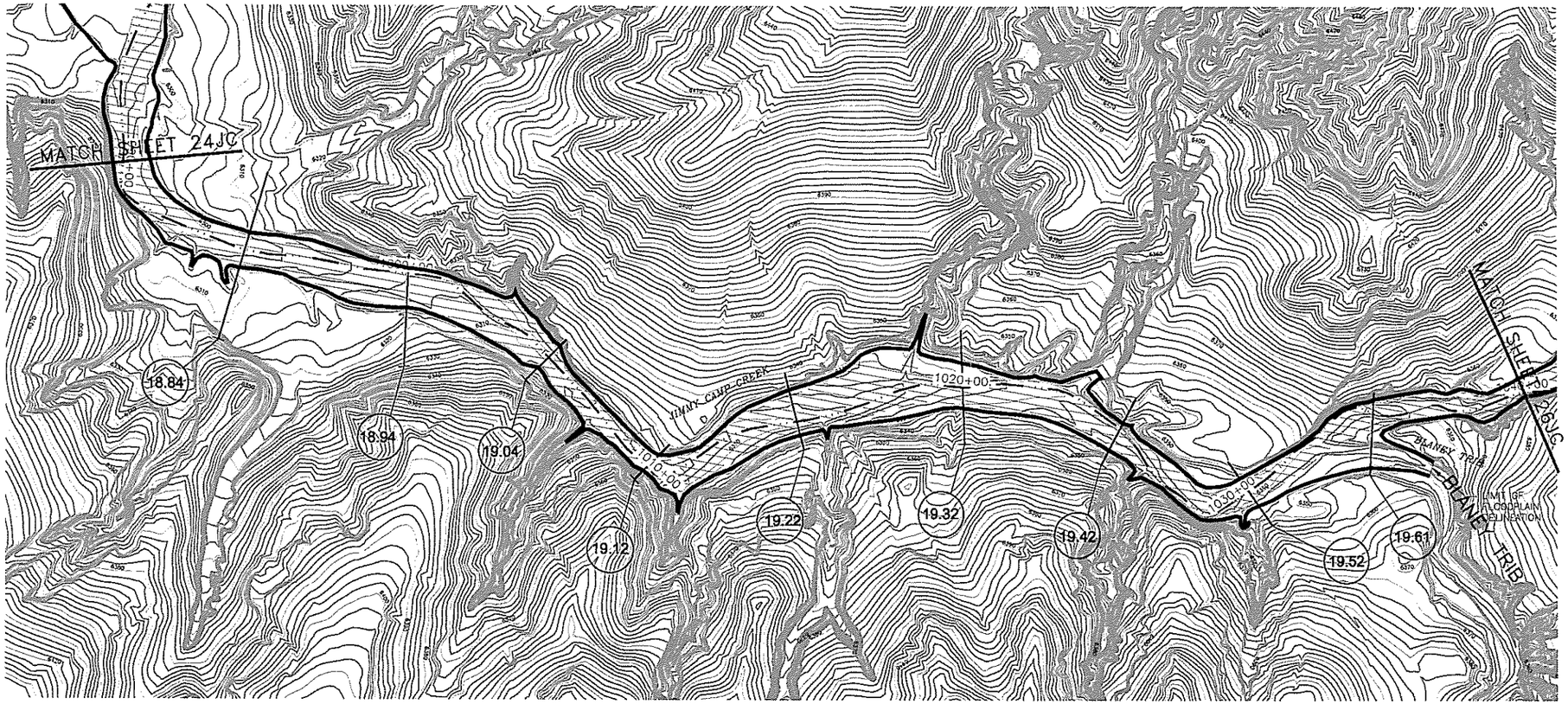

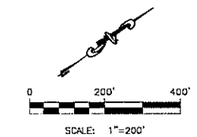

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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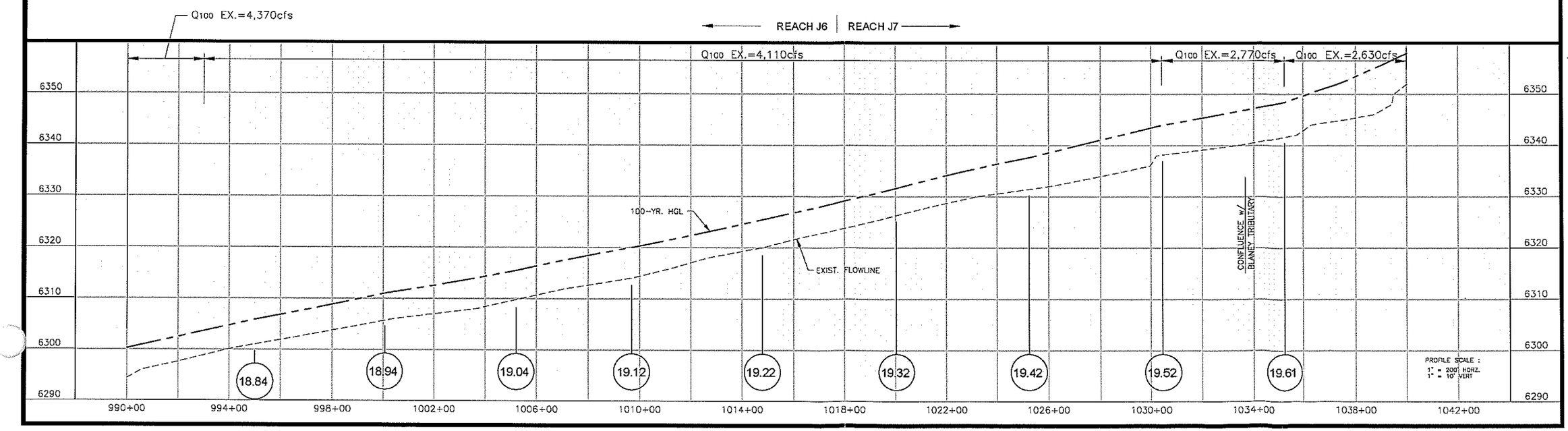
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



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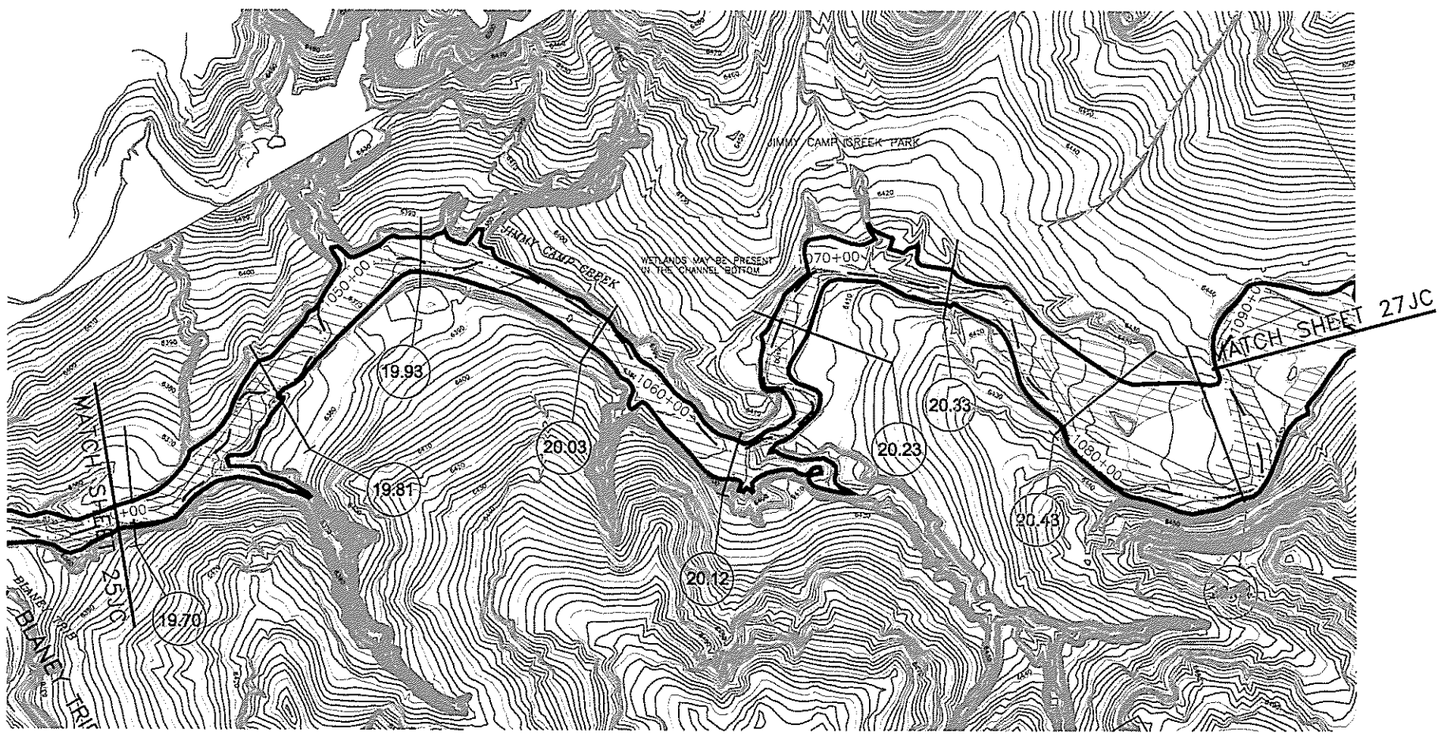
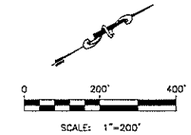
14008-25JC-400fpp.dwg/May 20, 2014

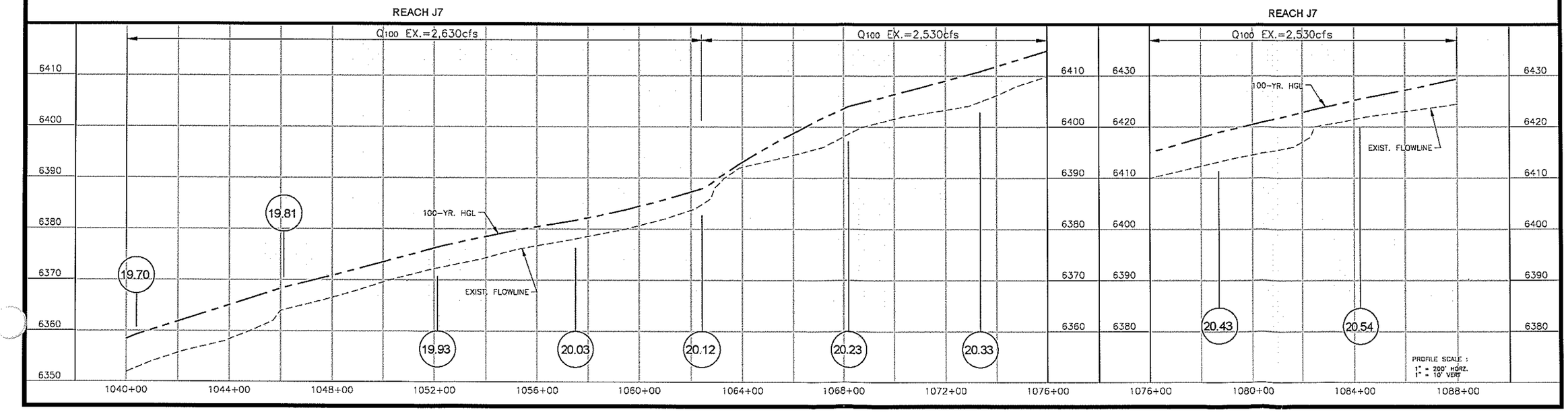




LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)



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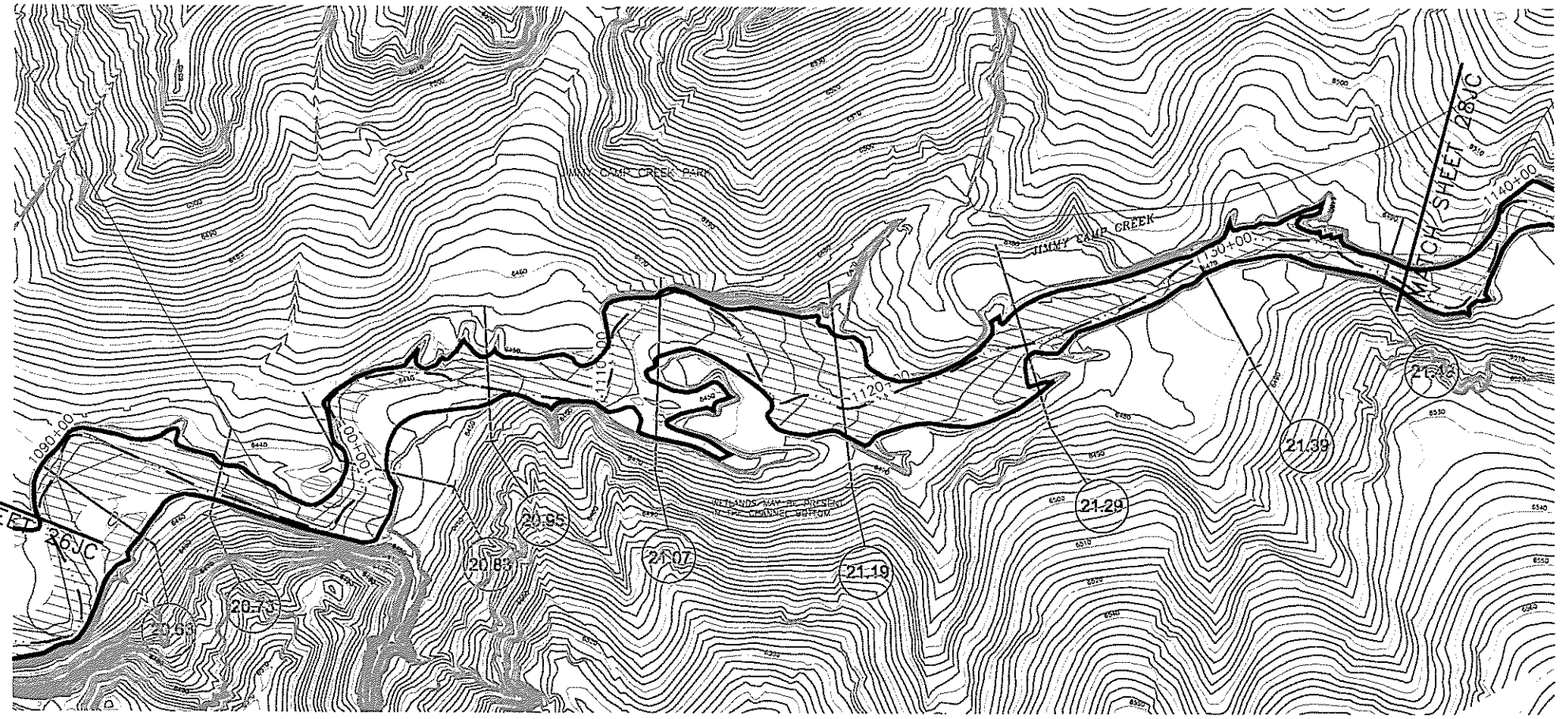
(719)630-7342

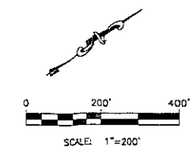
JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
26JC
OF X SHEETS

14008-25JC-91dfpp.dwg/May 20, 2014





LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
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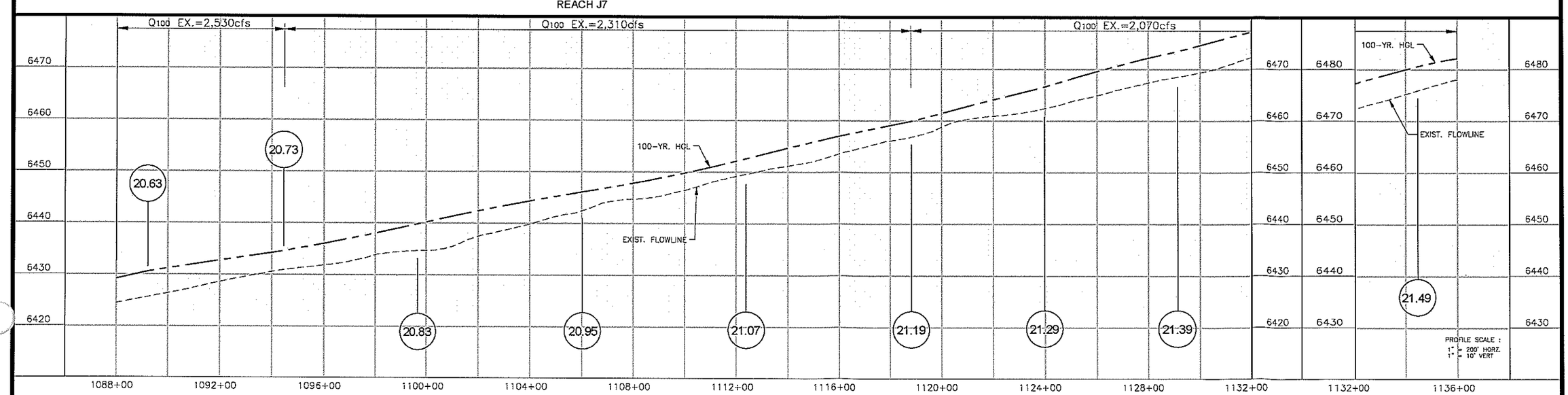
GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)

REACH J7



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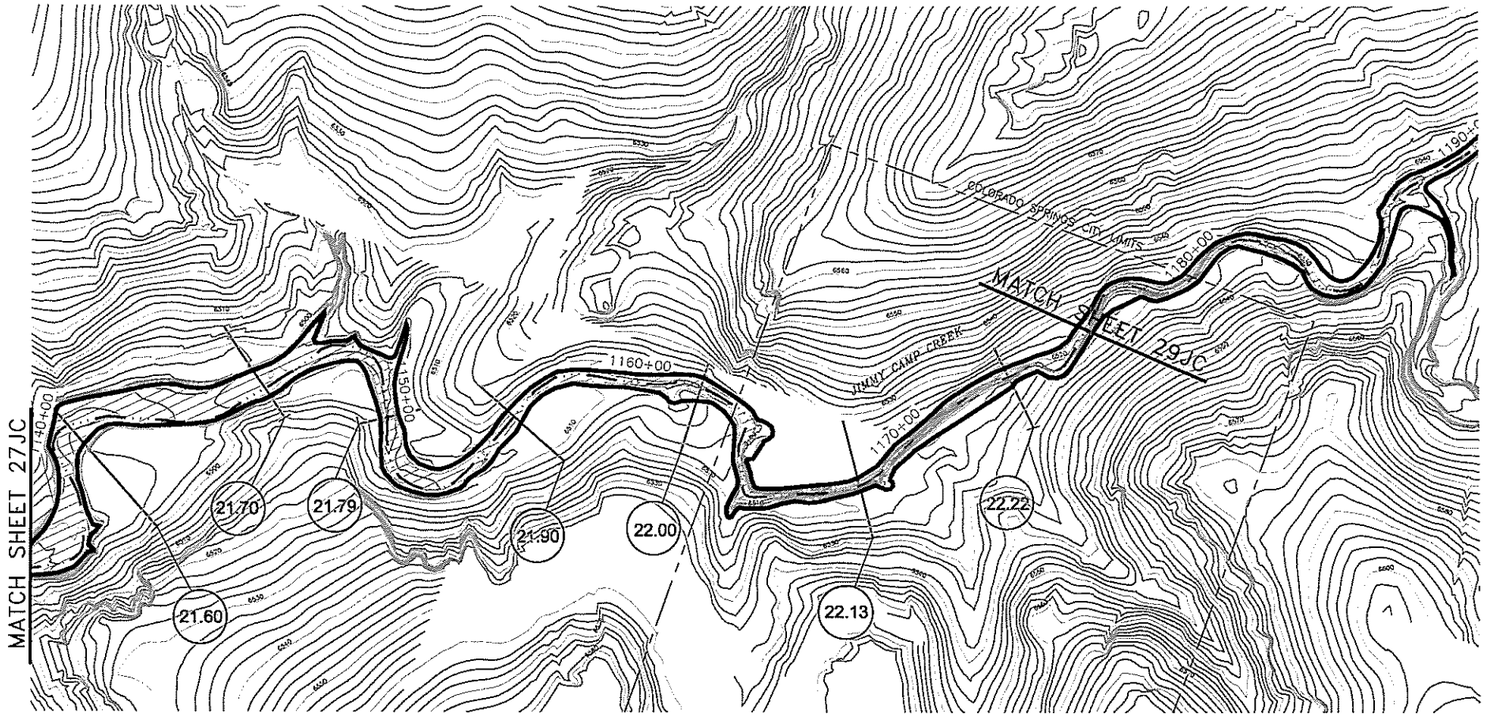
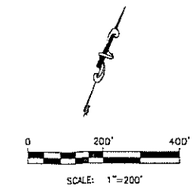
JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
27JC
OF X SHEETS

14008-27JC-916fpp.dwg/May 20, 2014





LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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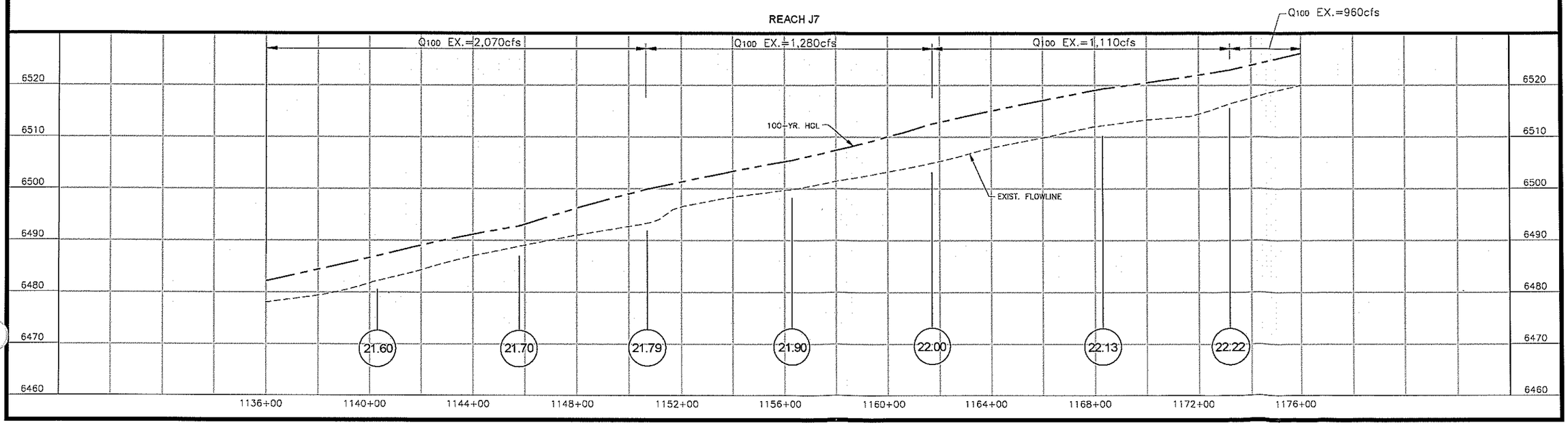
GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)

REACH J7



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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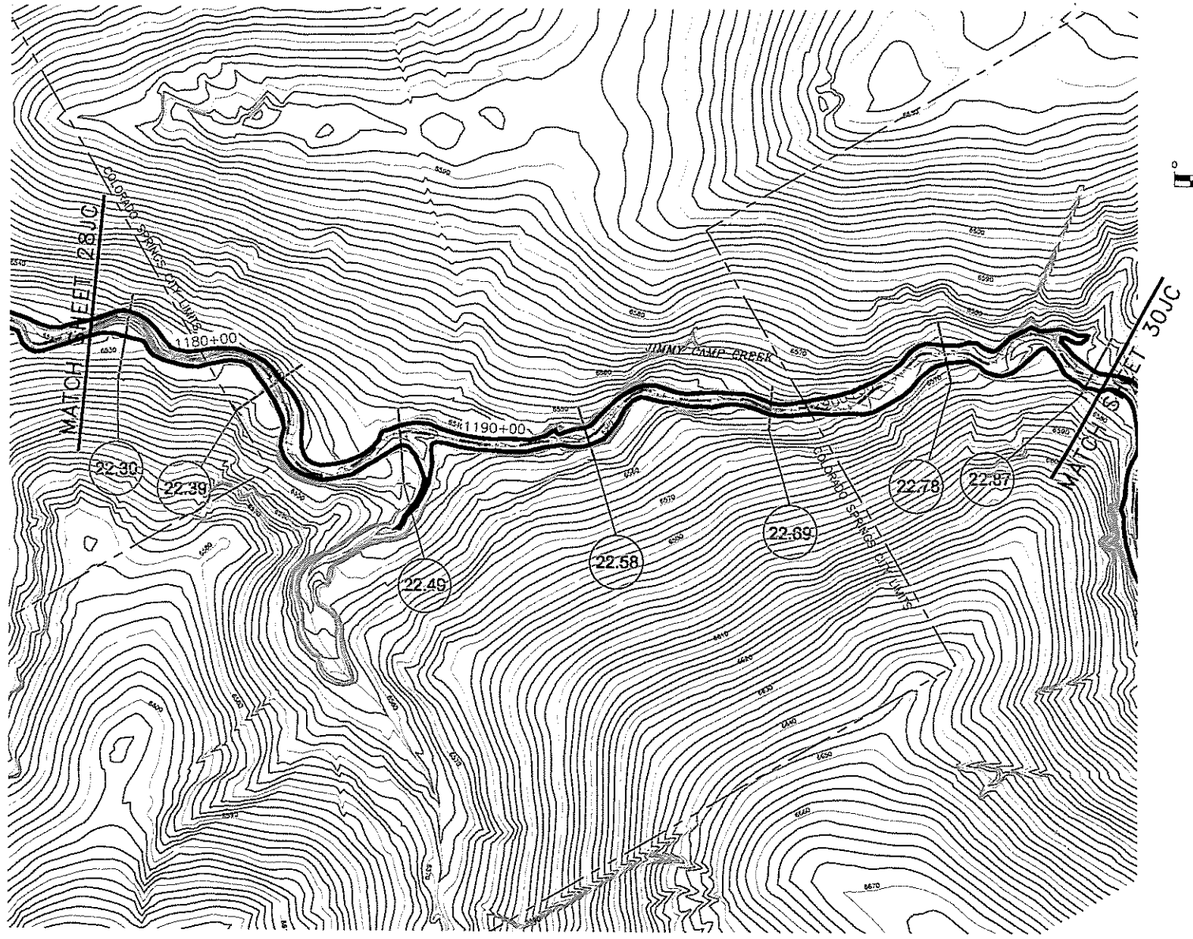
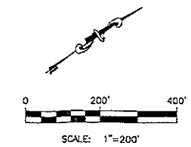
Check:	RNW
Revisions:	

SHEET
28JC
OF X SHEETS

14008-28JC-431fpp.dwg/May 29, 2014





LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
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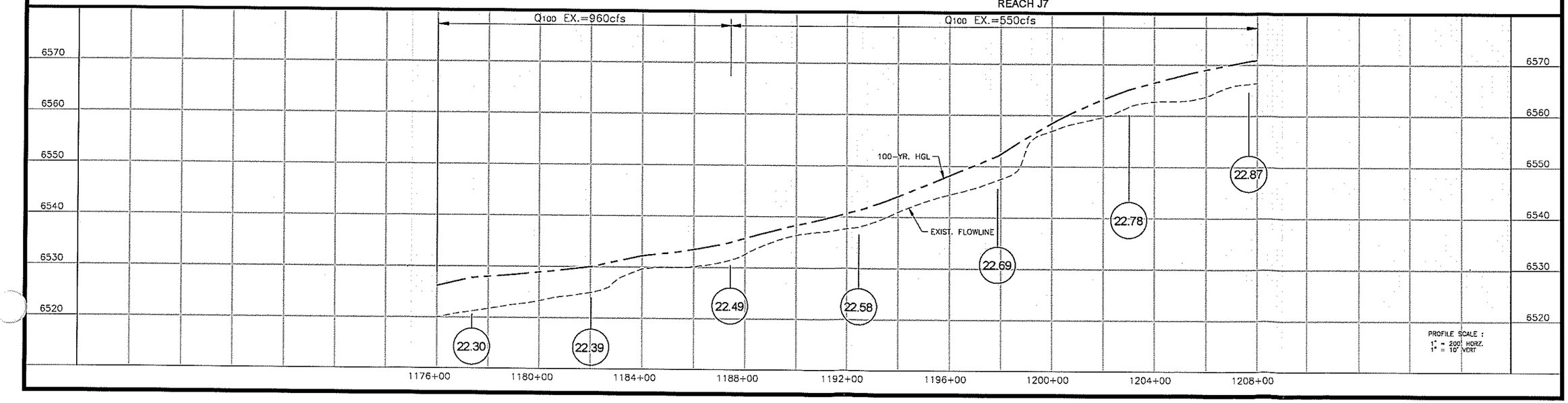
GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)

REACH J7



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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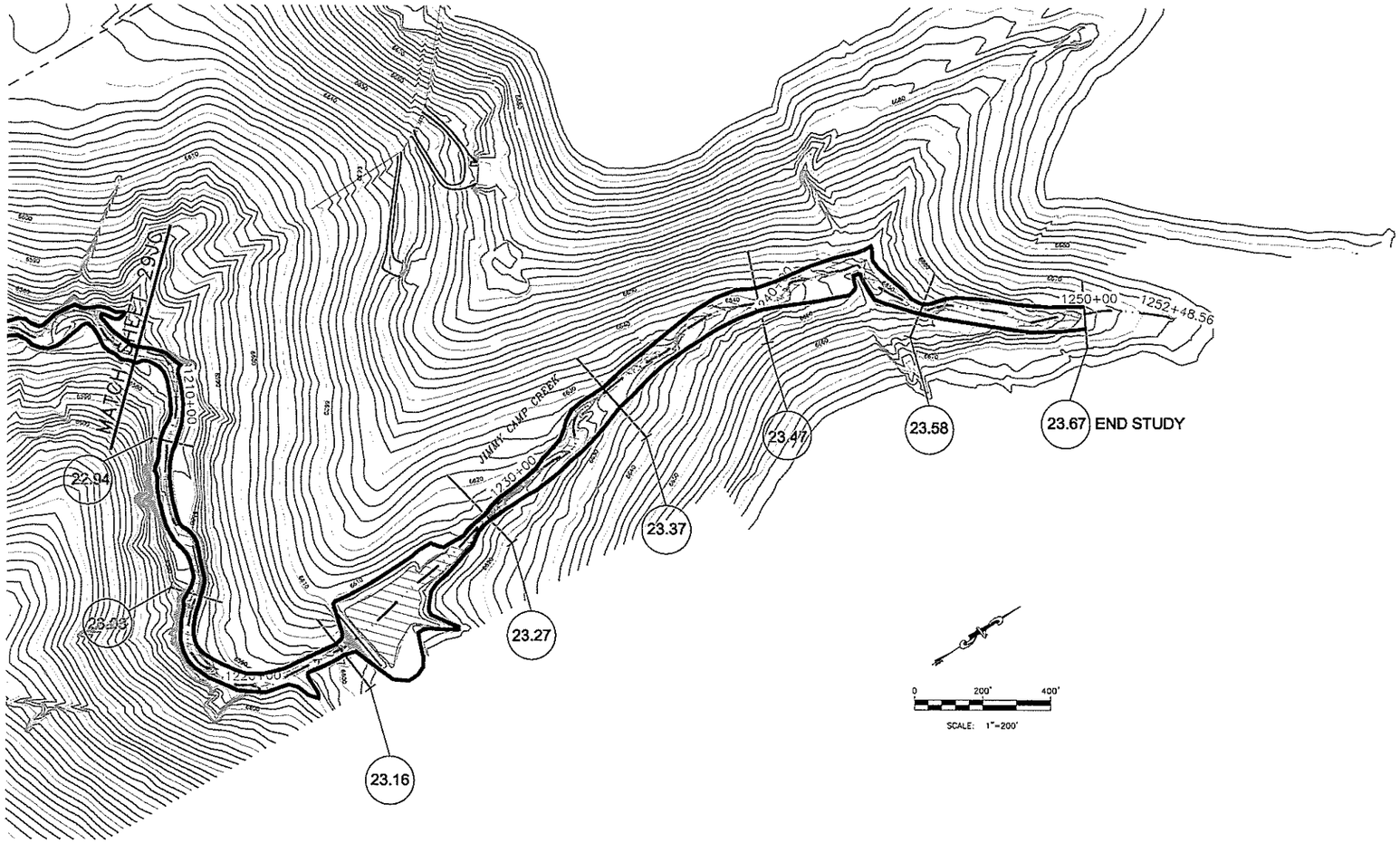
Revisions:	

SHEET
29JC
OF X SHEETS

14008-29JC-431fpp.dwg/May 20, 2014



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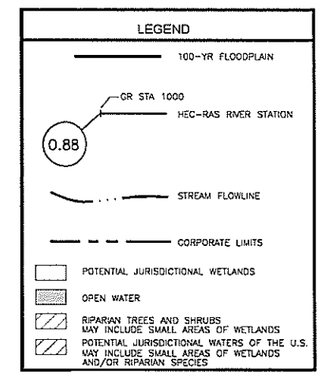
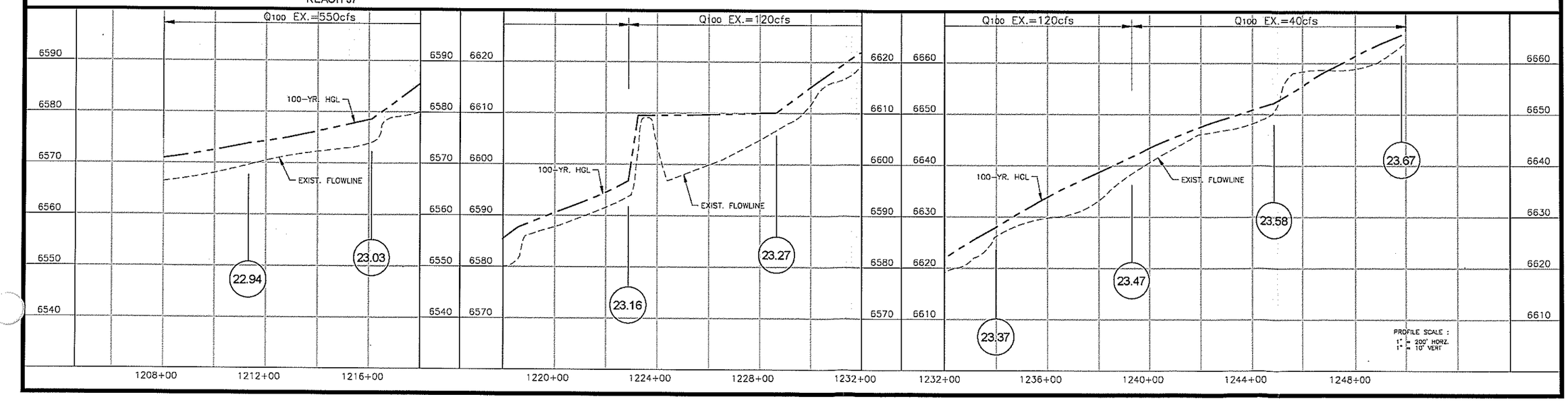


GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



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JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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Check:	RNW
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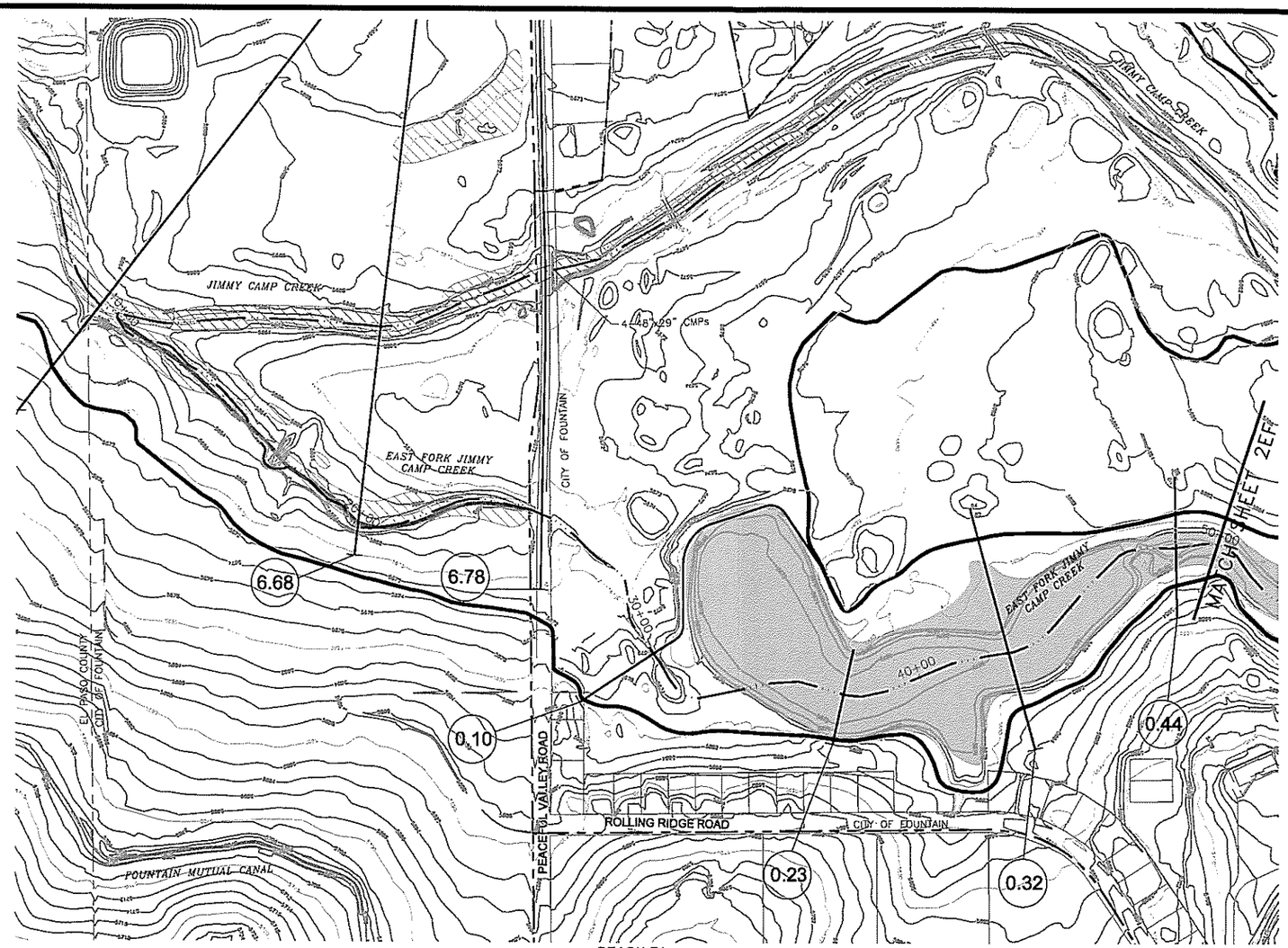
30JC
OF X SHEETS

14008-30JC-431fpp.dwg/May 20, 2014



REACH E1

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

SCALE: 1"=200'

LEGEND

- 100-YR FLOODPLAIN
- 0.88 — GR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
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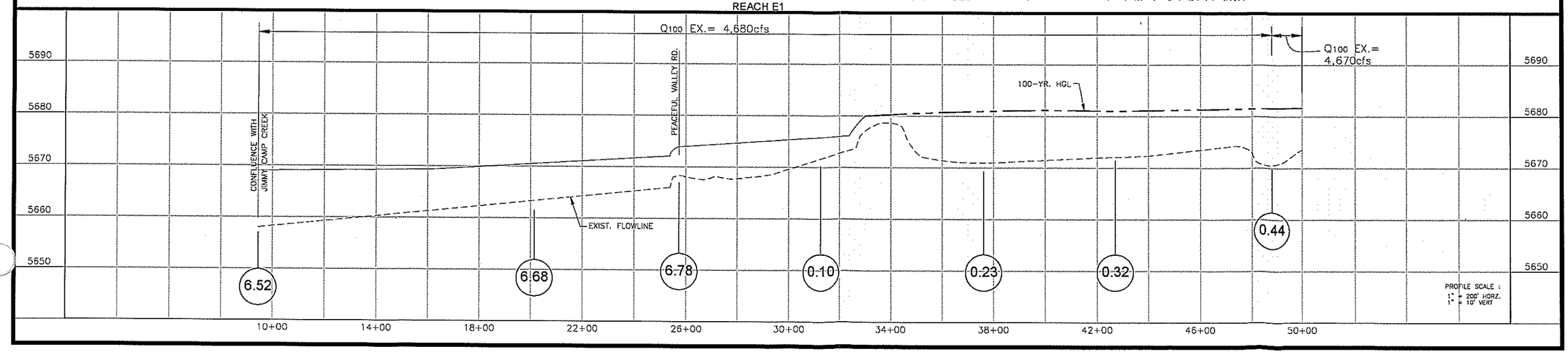
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK

FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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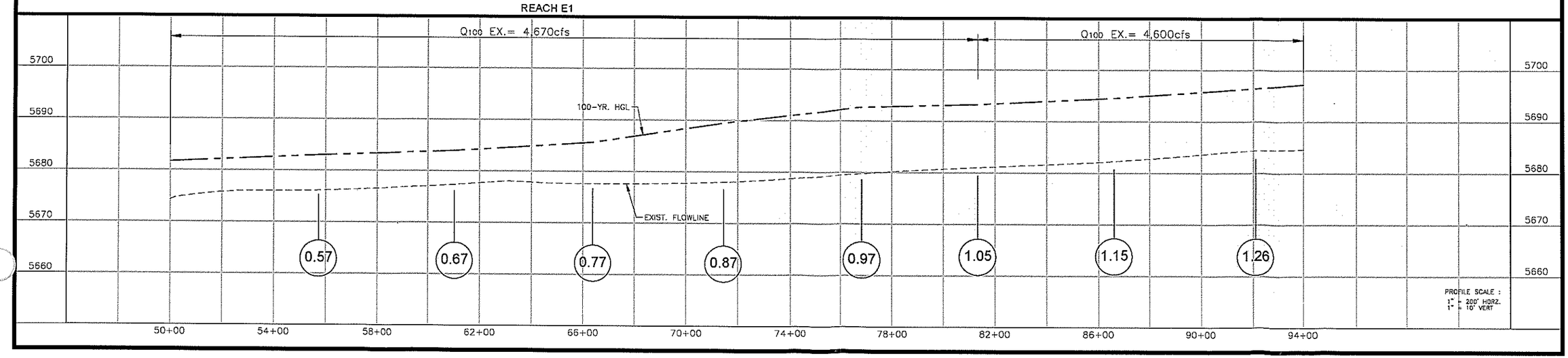
Check:	RNW
Revisions:	

SHEET
1EF
OF X SHEETS

14008-1EF-220.dwg/May 20, 2014

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

REACH E1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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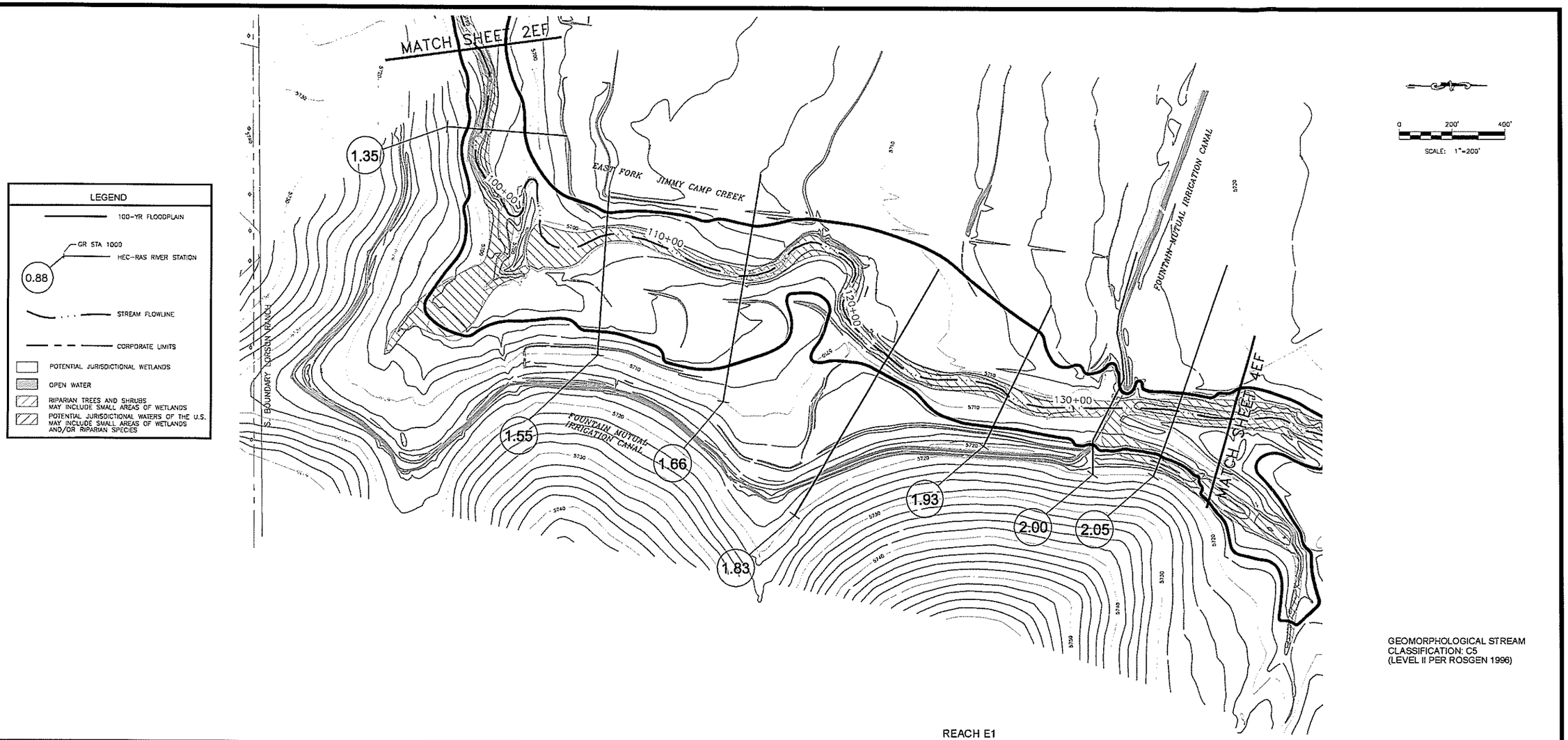
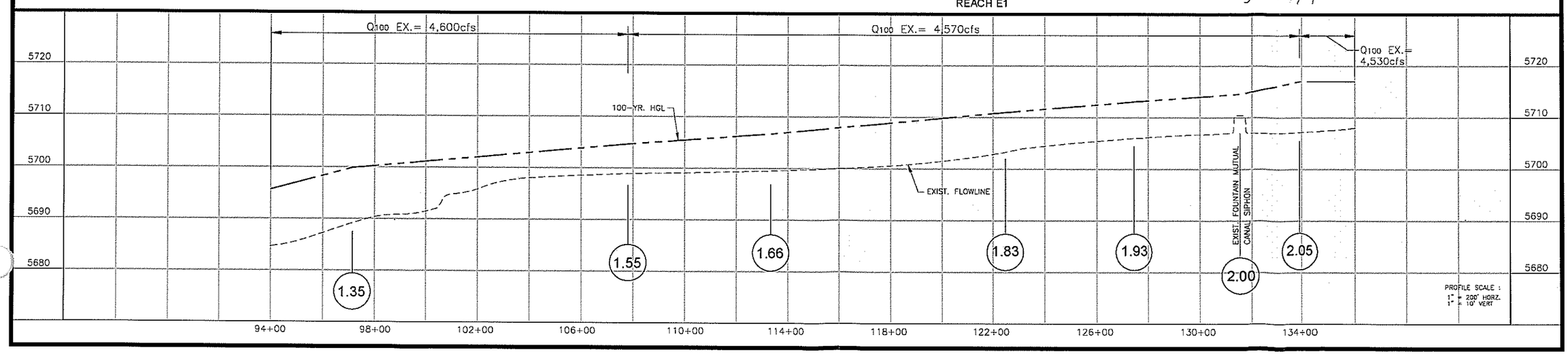
Revisions:	

SHEET
2EF
OF X SHEETS

14008-2EF-738.dwg/May 20 2014



REACH E1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
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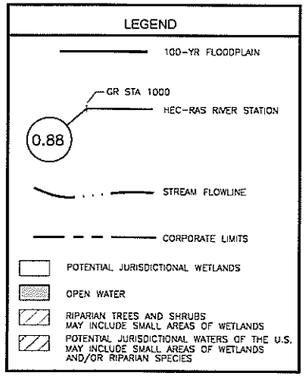
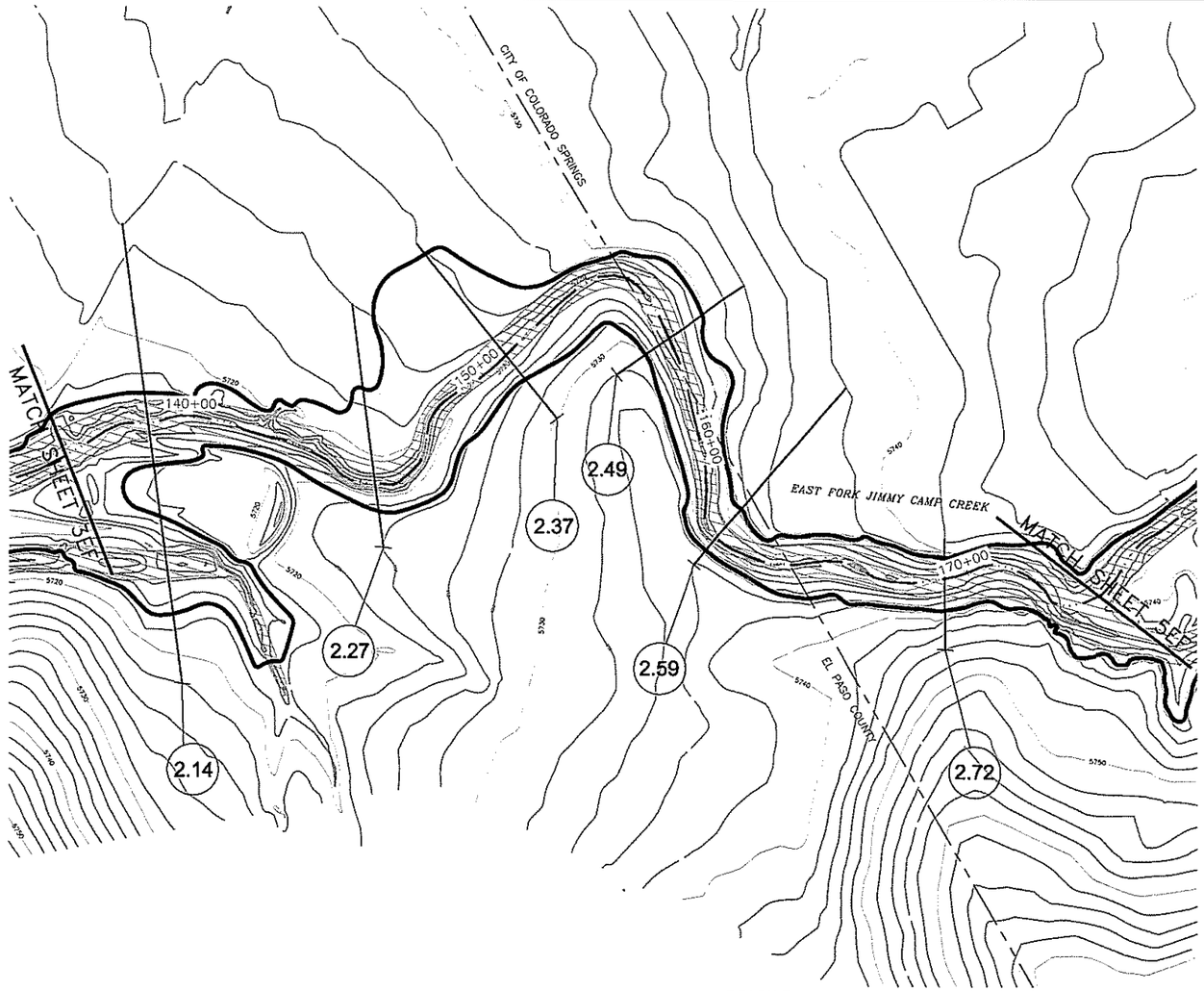
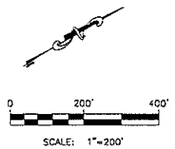
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
3EF
OF X SHEETS

14008-3DF-251.dwg/May 29, 2014

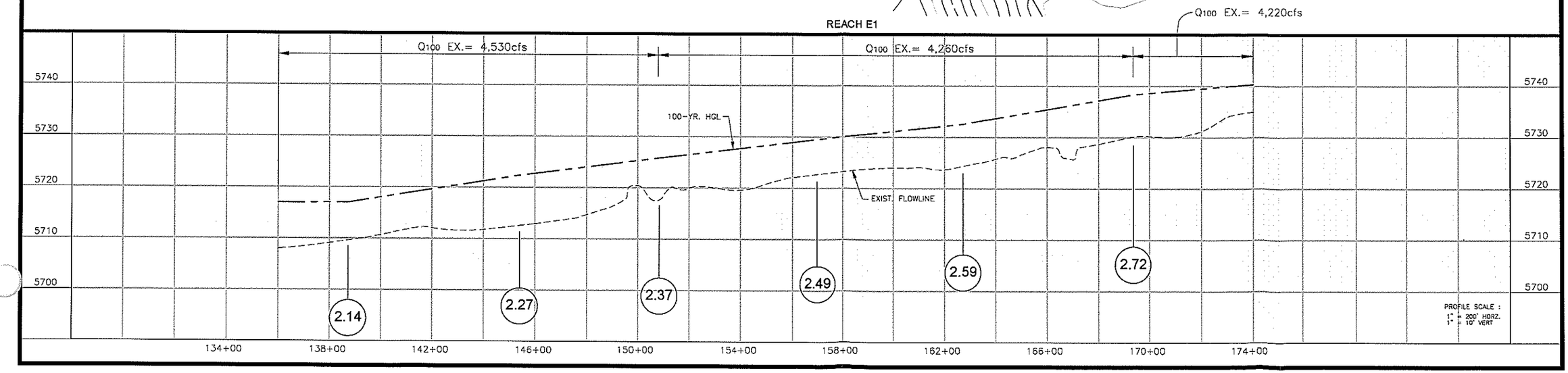






GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

REACH E1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK

FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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Check:	RNW
Revisions:	

SHEET
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OF X SHEETS

14008-4EF-756.dwg/May 20, 2014

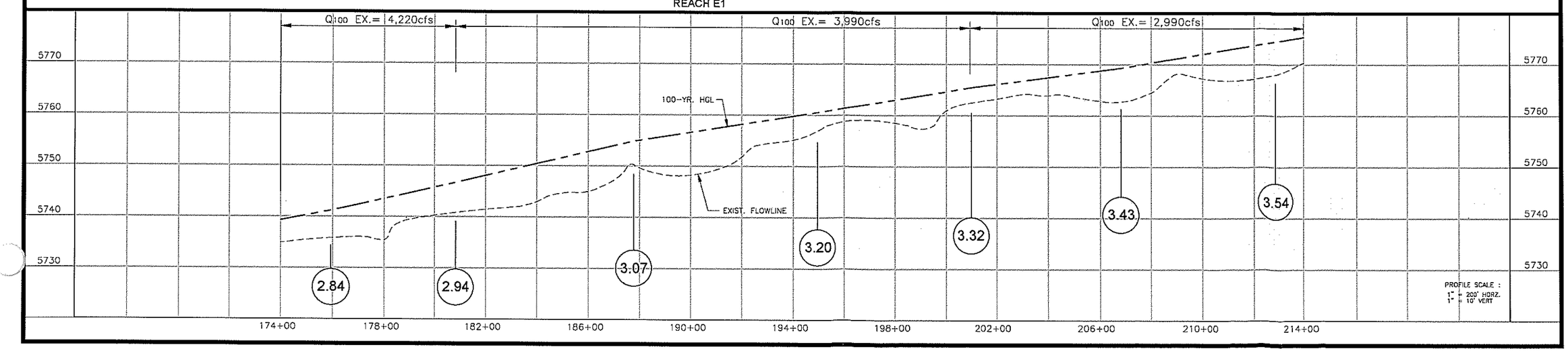
LEGEND

- 100-YR FLOODPLAIN
- 0.88 — GR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

REACH E1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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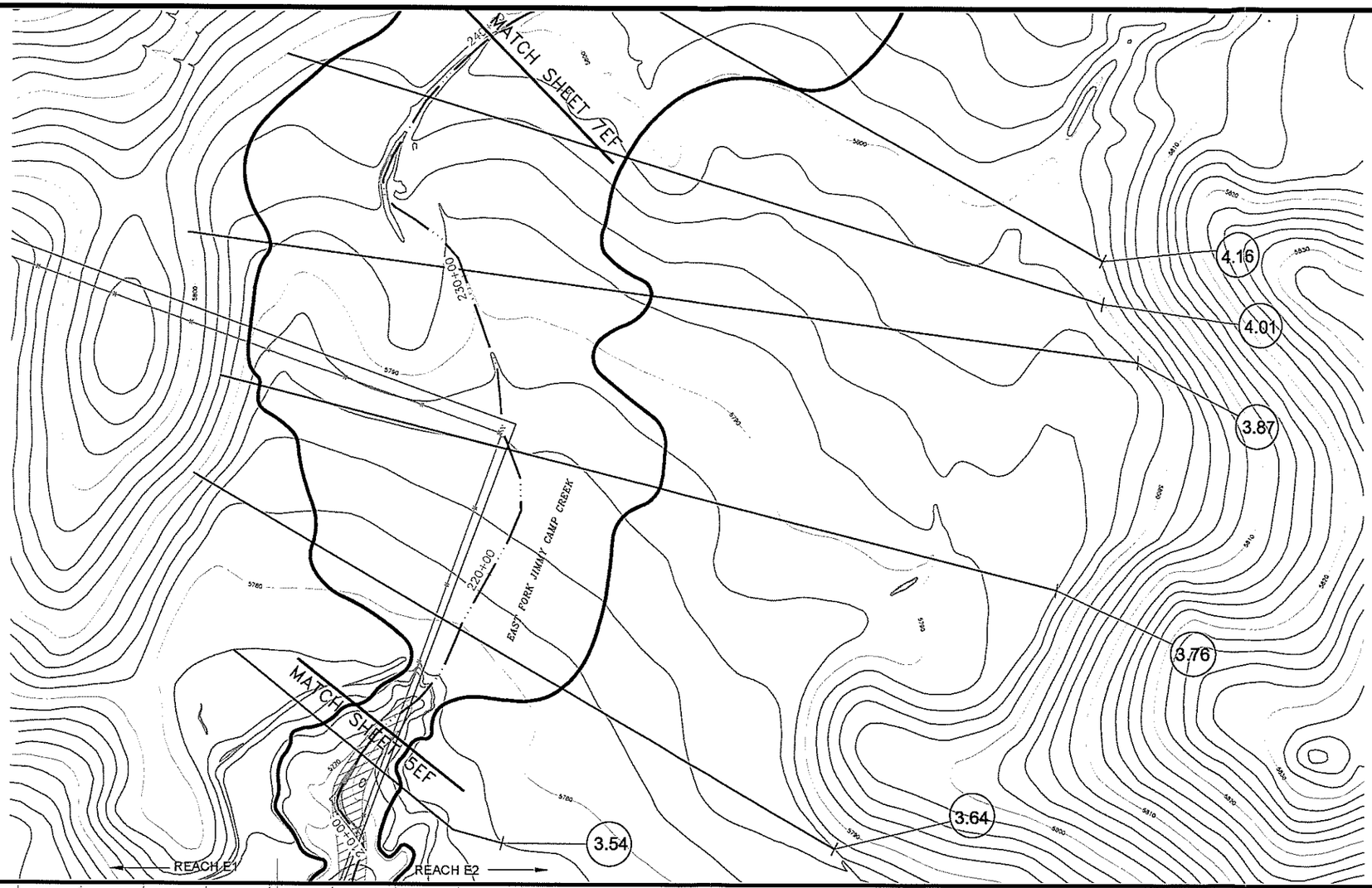
Revisions:	

SHEET
5EF
OF X SHEETS

14008-5EF-281.dwg/May 20, 2014



GEOMORPHOLOGICAL STREAM CLASSIFICATION: NOT APPLICABLE
-NO CHANNEL
(LEVEL II PER ROSGEN 1996)

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
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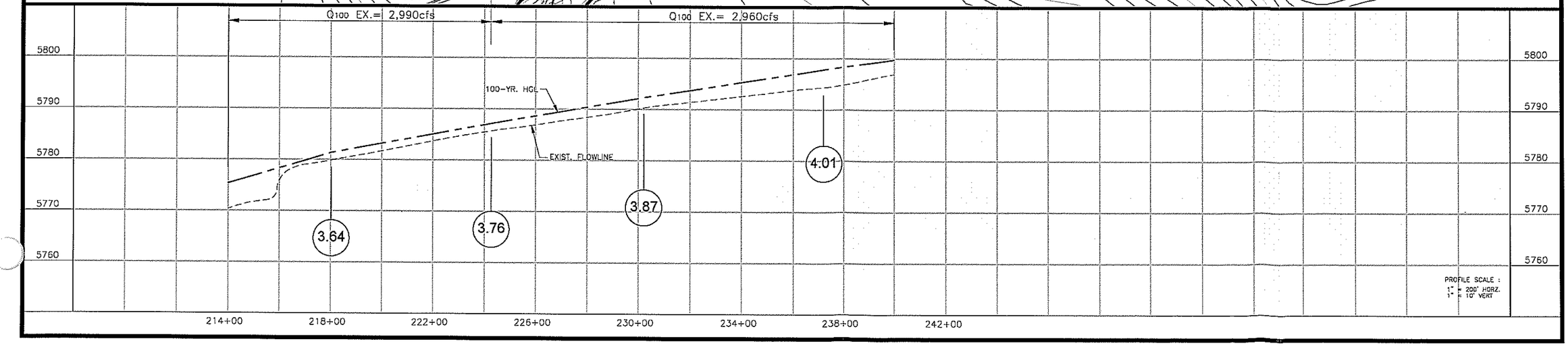

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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK

FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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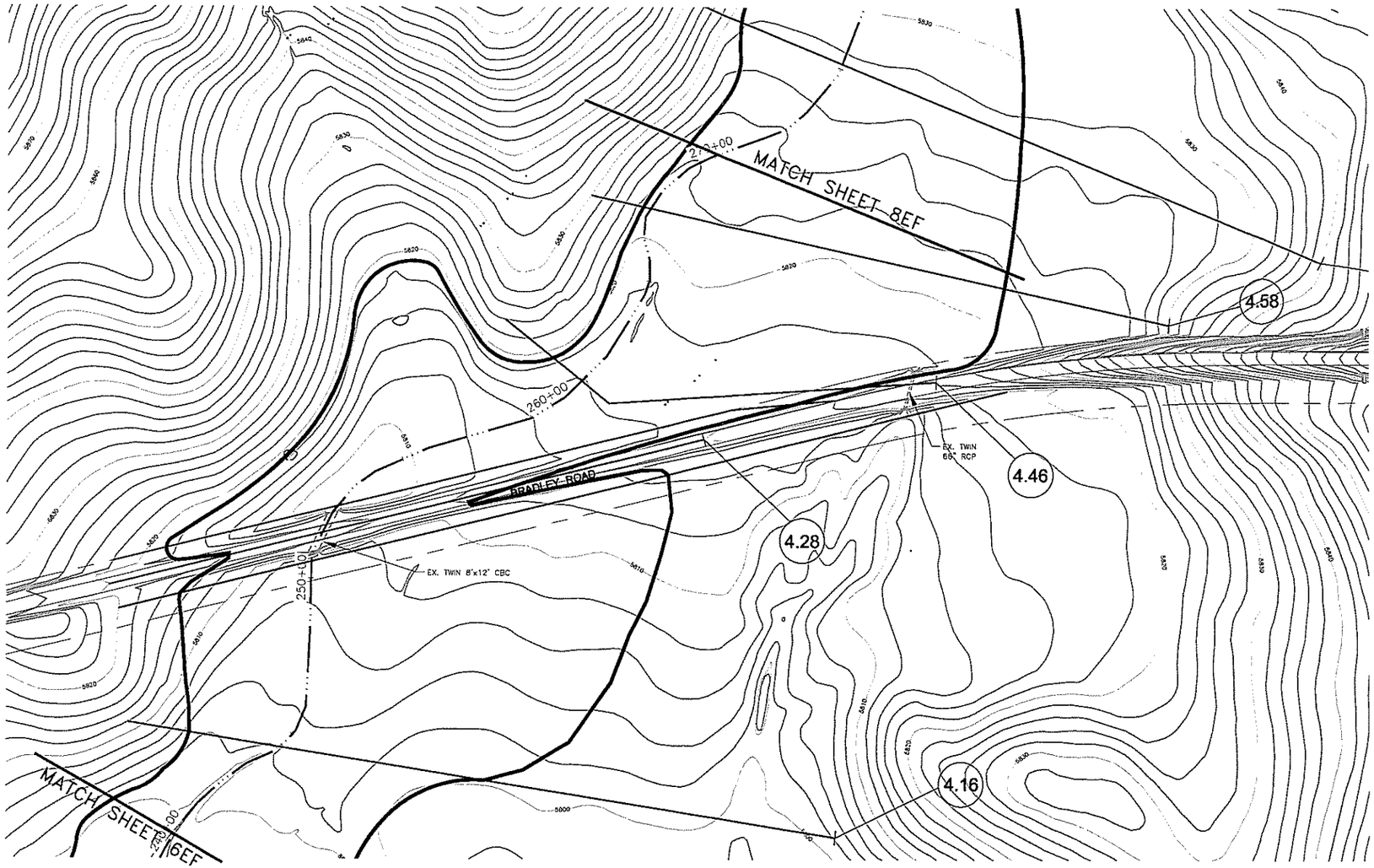
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
6EF
OF X SHEETS

14008-EOF-796.dwg/May 29, 2014



SCALE: 1"=200'

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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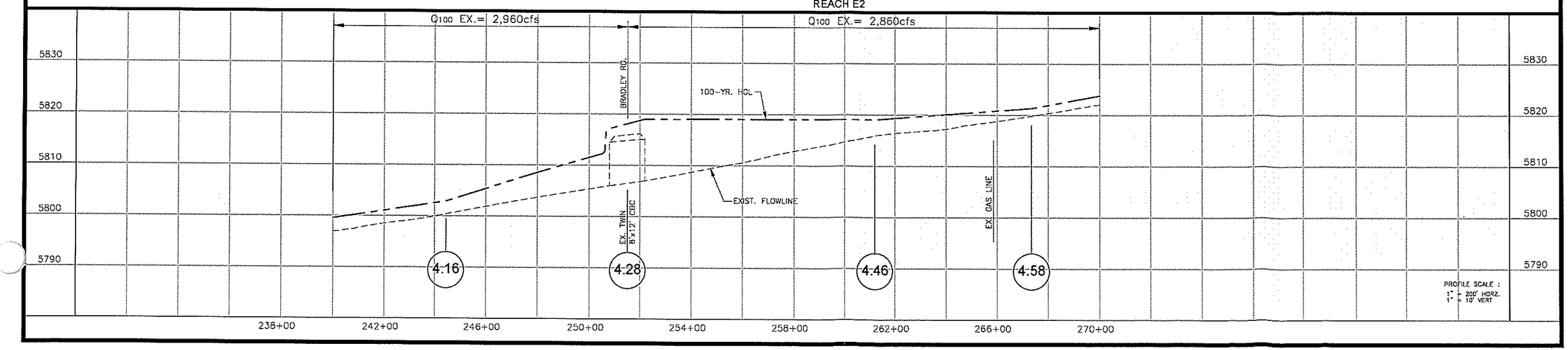
REACH E2



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK

FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

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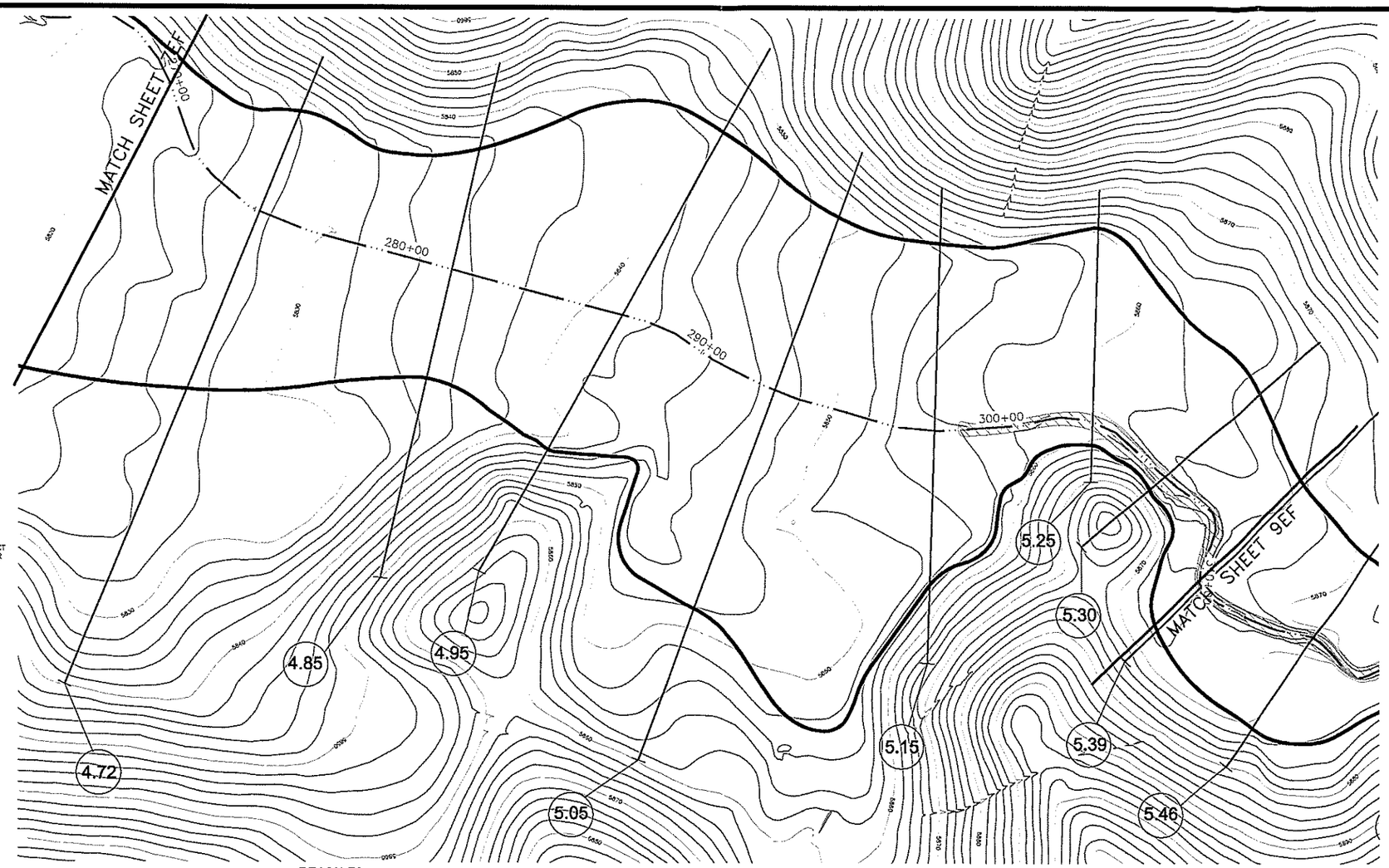
14008-7EF-797.dwg/May 20, 2014



0 200' 400'
SCALE: 1"=200'

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
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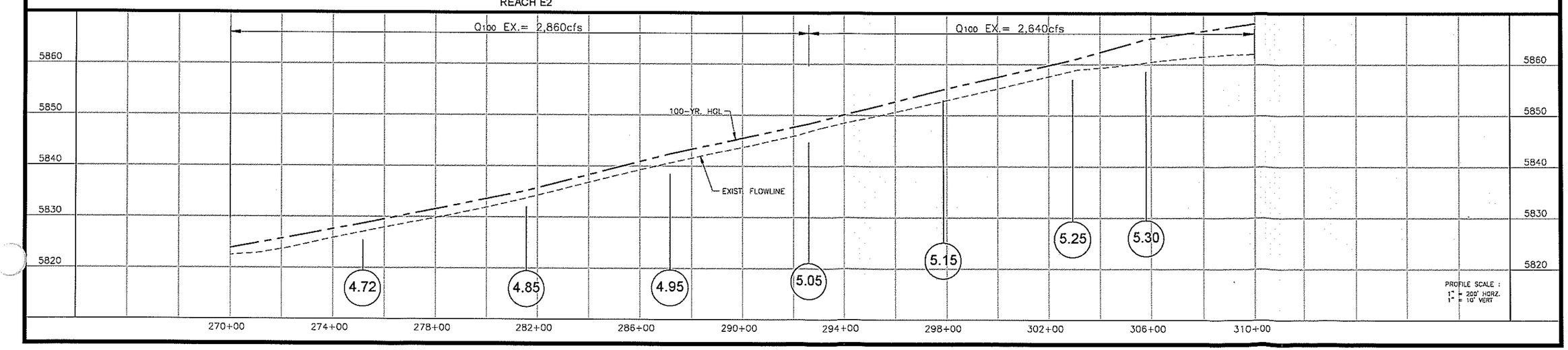
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.

GEOMORPHOLOGICAL STREAM CLASSIFICATION: NOT APPLICABLE
NO CHANNEL
(LEVEL II PER ROSGEN 1996)

STREAM CLASSIFICATION PERTAINS ONLY TO LOWER STREAM SEGMENT. TRIBUTARY CONNECTION TO THE EAST FORK IS UNCLEAR DUE TO LATERAL MIGRATION OVER TIME.



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

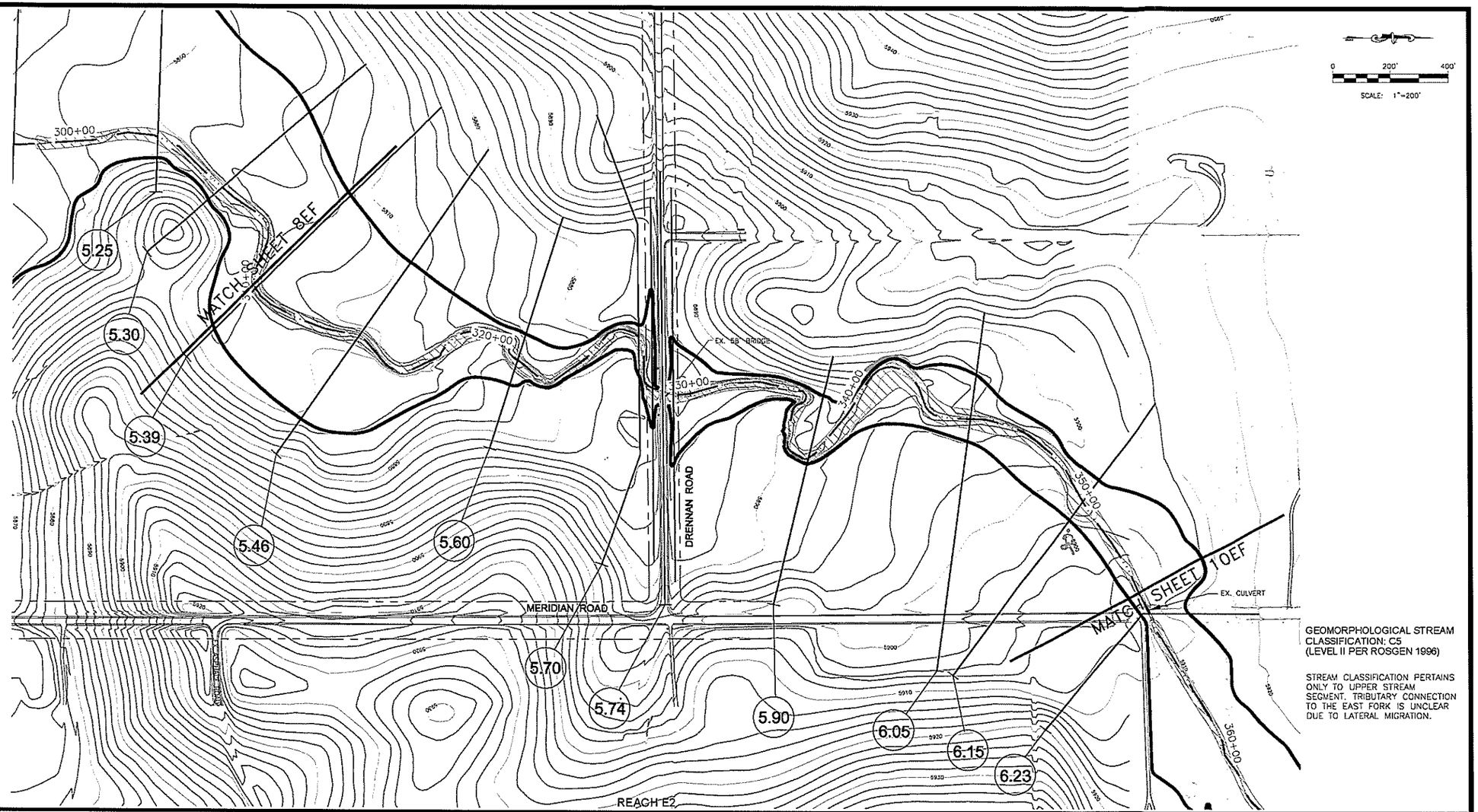
SHEET
8EF
OF X SHEETS

14008-8EF-797.dwg/May 20, 2014

LEGEND

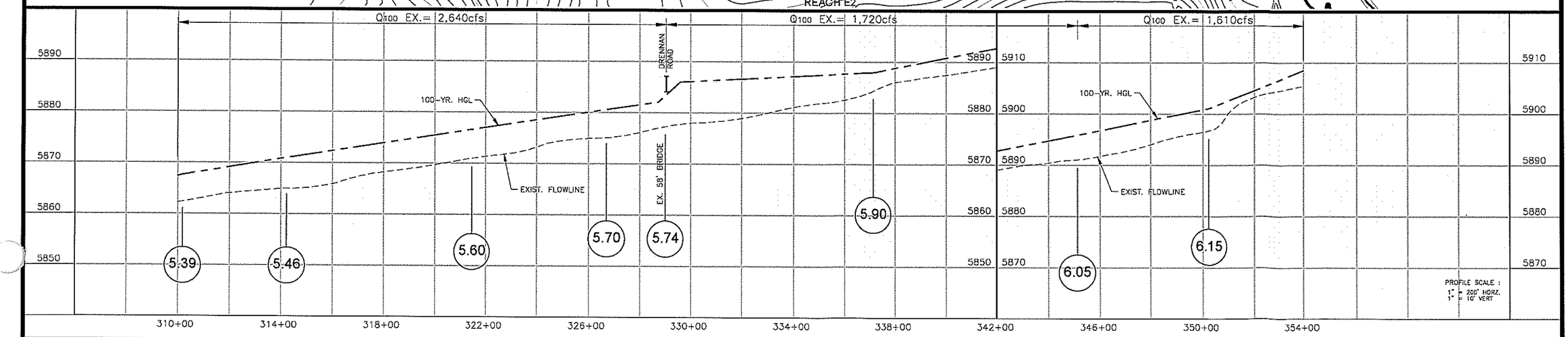
- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.



GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

STREAM CLASSIFICATION PERTAINS ONLY TO UPPER STREAM SEGMENT. TRIBUTARY CONNECTION TO THE EAST FORK IS UNCLEAR DUE TO LATERAL MIGRATION.



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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Design:	RNW
Drawn:	JLN
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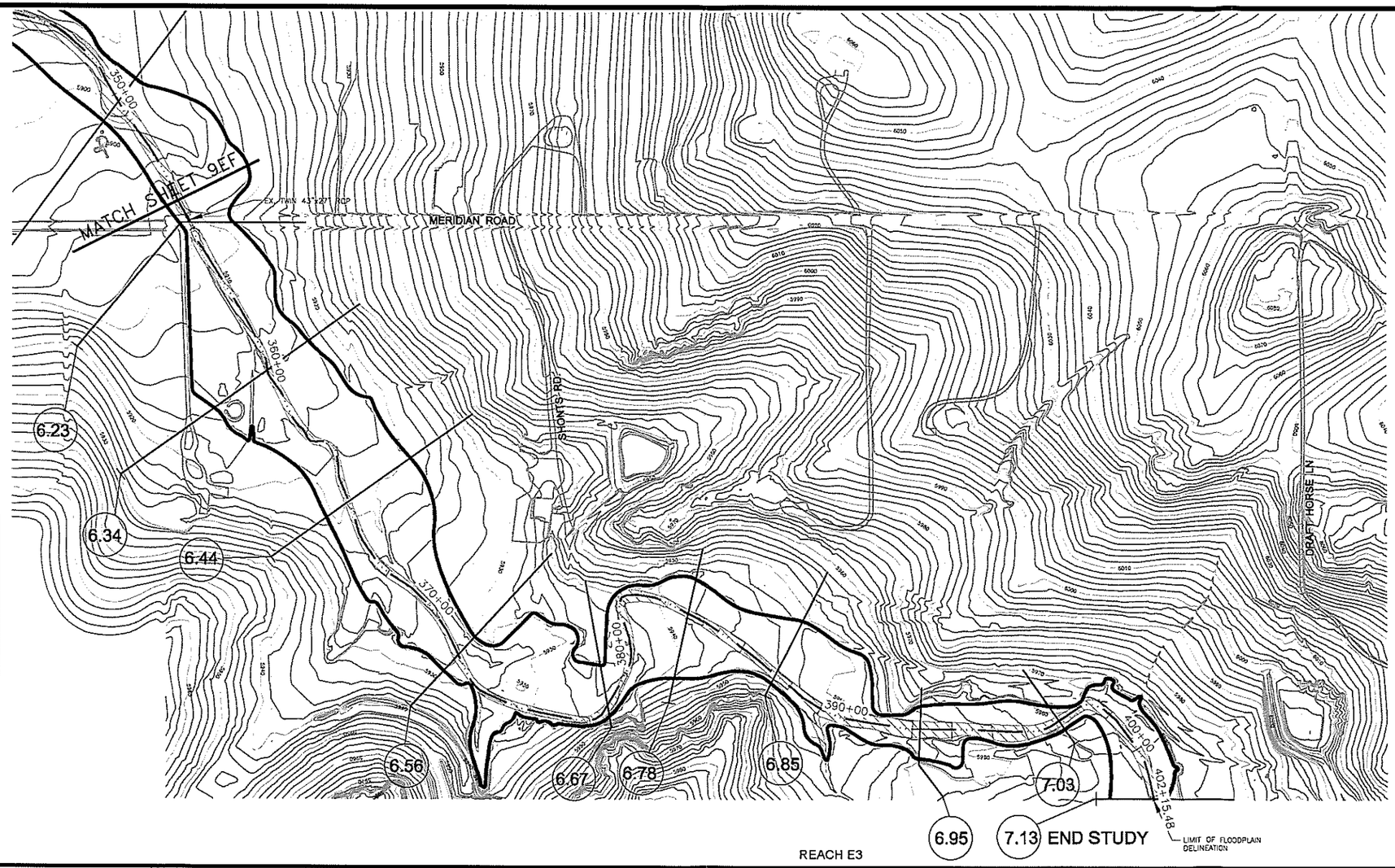
Revisions:	

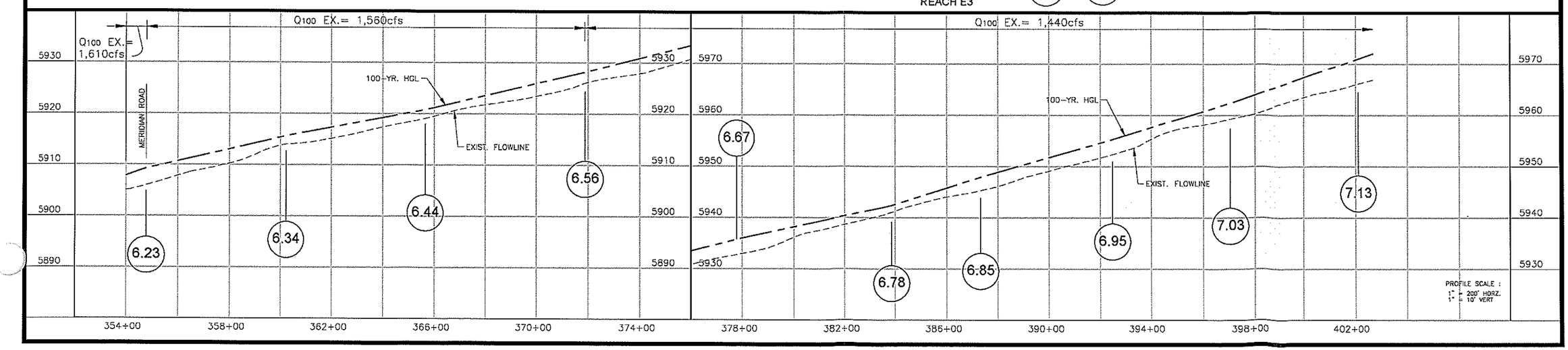
SHEET 9EF OF X SHEETS

14008-9EF-795.dwg/May 20, 2014



LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
EAST FORK JIMMY CAMP CREEK
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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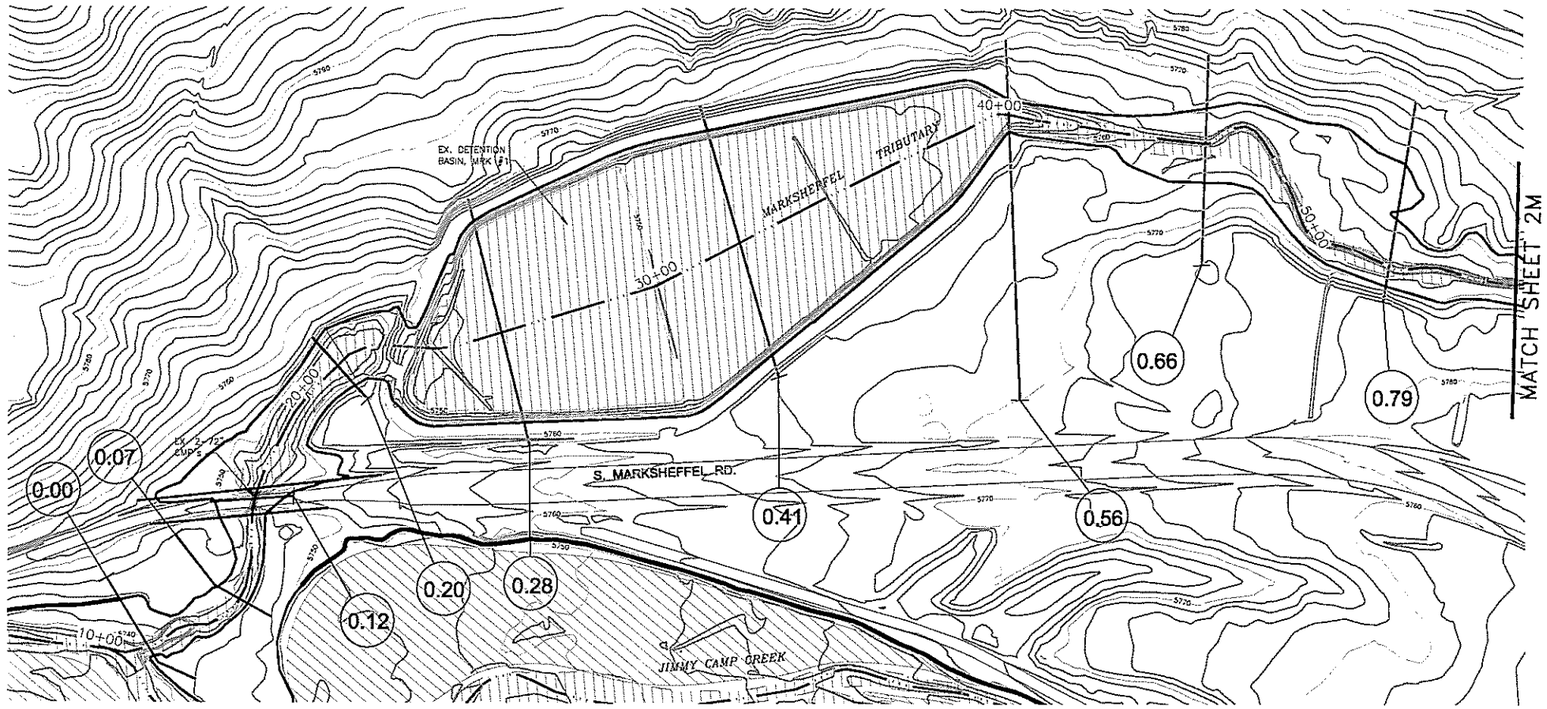
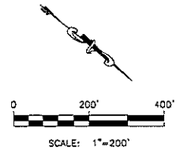
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET 10EF OF X SHEETS

14008-10EF-79E.dwg/May 20, 2014



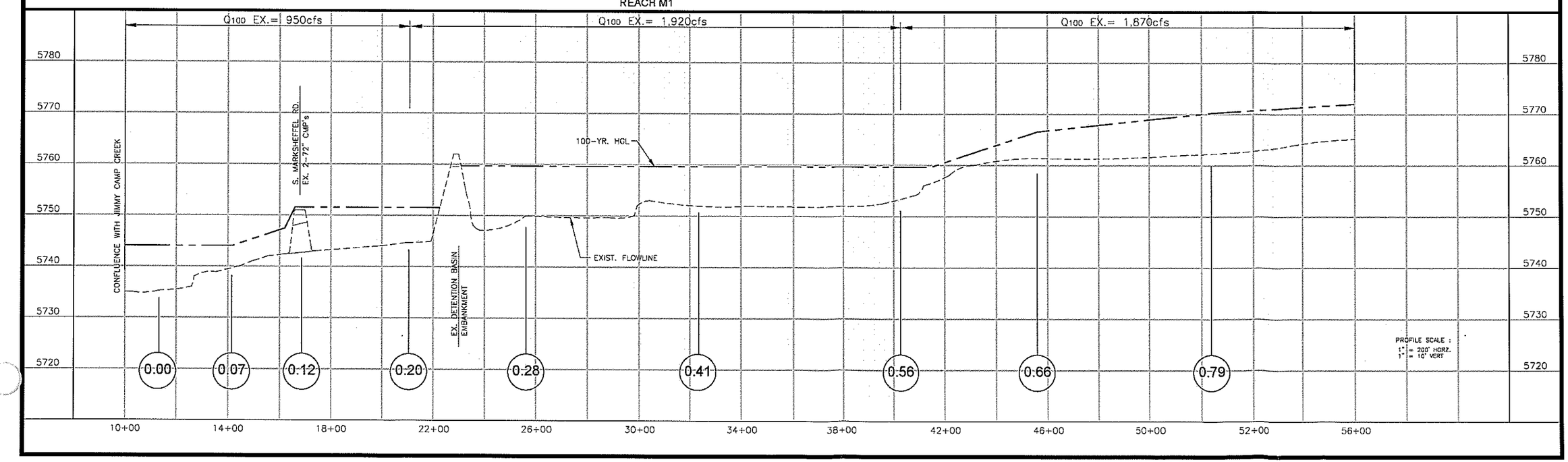


LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)

REACH M1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
MARKSHEFFEL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
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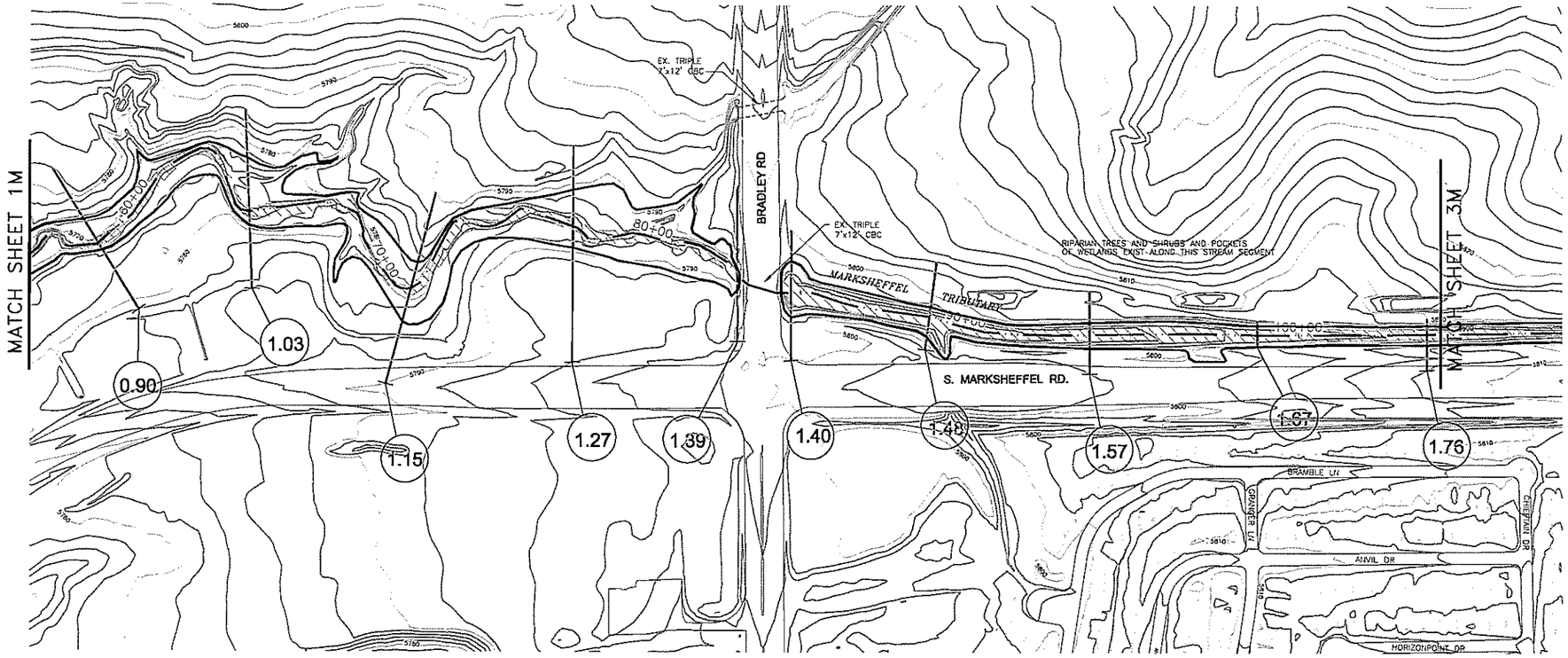
Revisions:	

SHEET 1M OF X SHEETS

14008-1M-249fpp.dwg/May 20, 2014



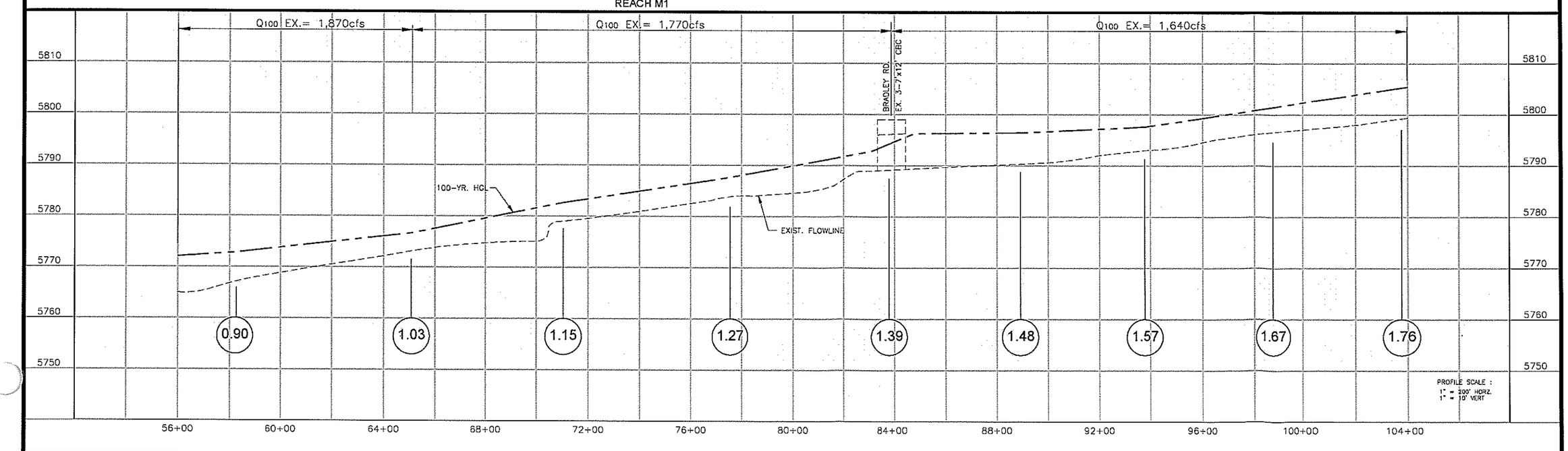
0 200' 400'
SCALE: 1"=200'

LEGEND

- 100-YR FLOODPLAIN
- 0.88 — GR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)

REACH M1



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MARKSHEFFEL TRIBUTARY
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CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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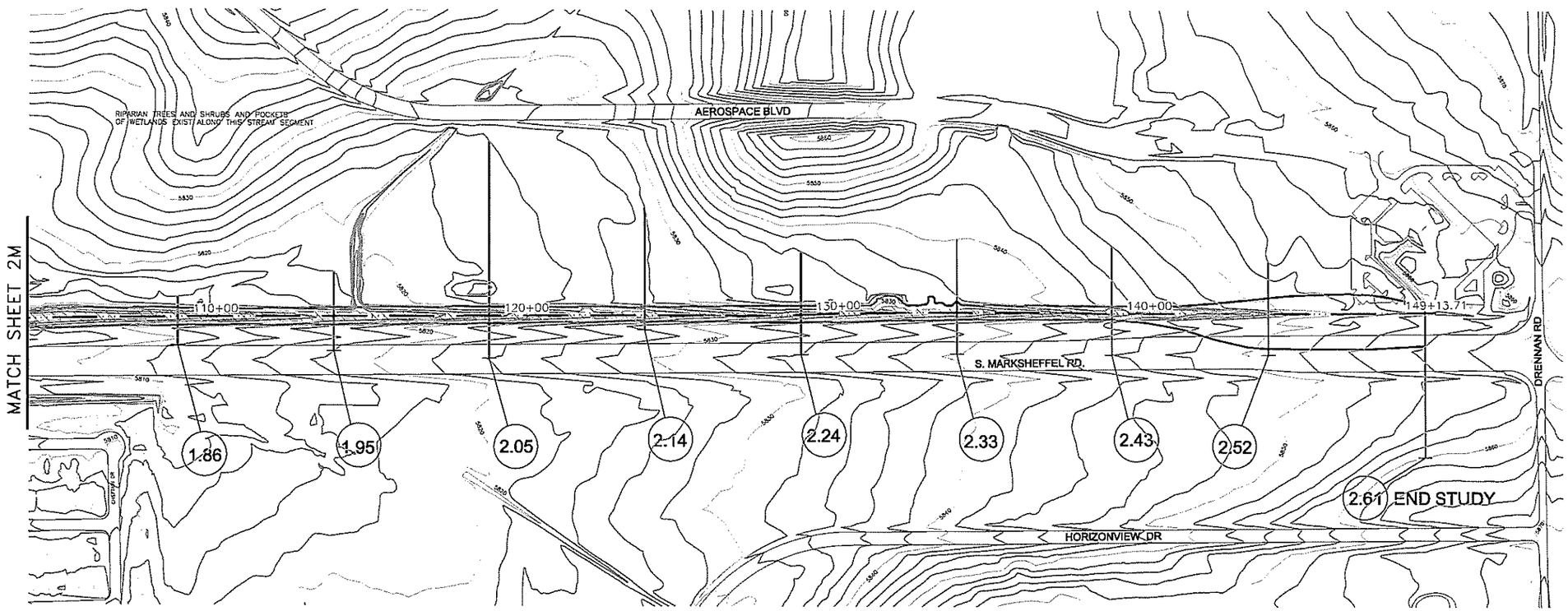
Revisions:	

SHEET
2M
OF X SHEETS

14008-2M-784fpp.dwg/May 20, 2014



0 200' 400'
SCALE: 1"=200'

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
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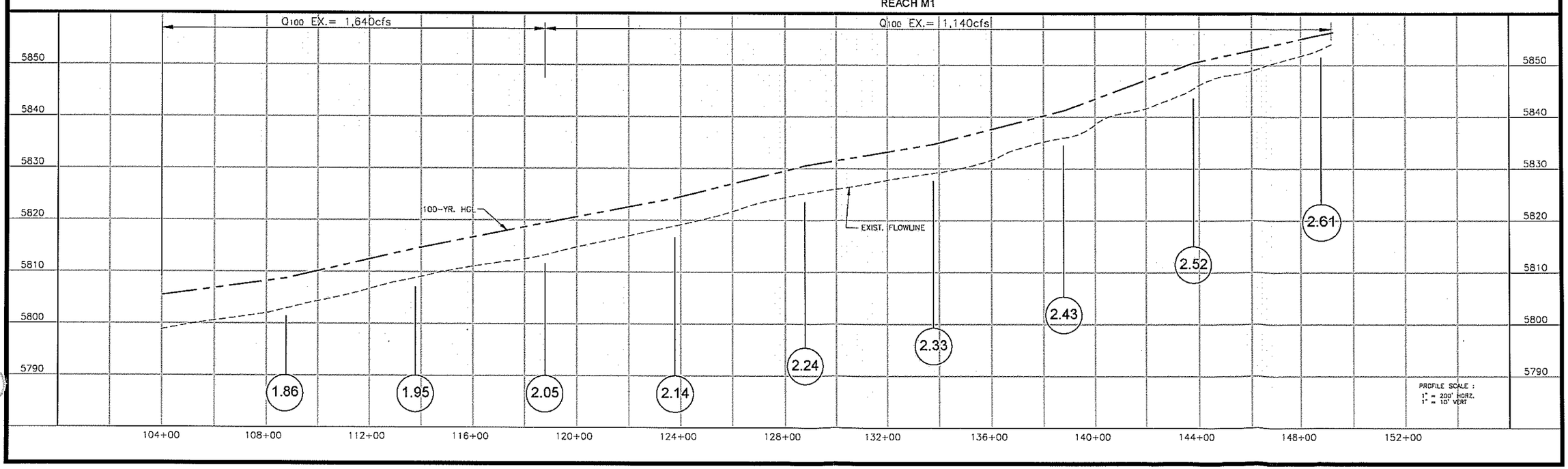
GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)

REACH M1



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MARKSHEFFEL TRIBUTARY
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CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

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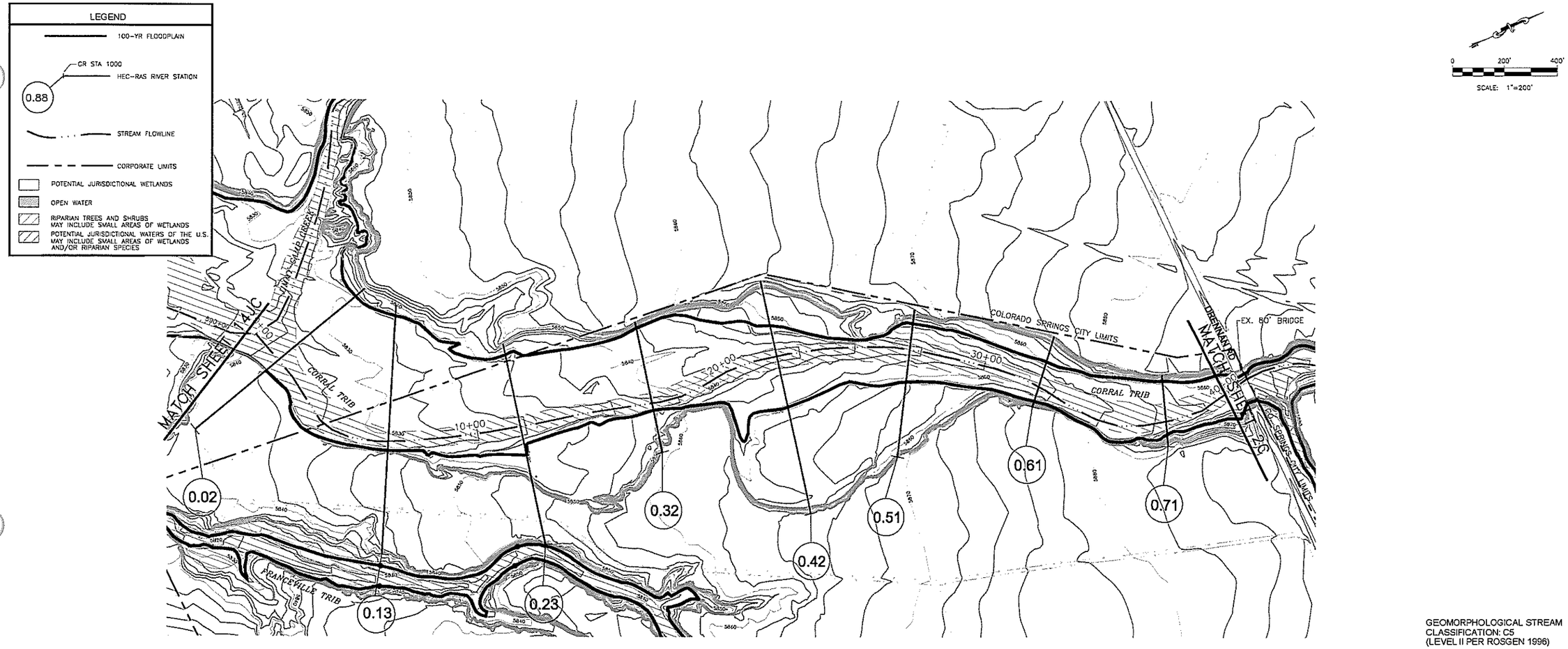
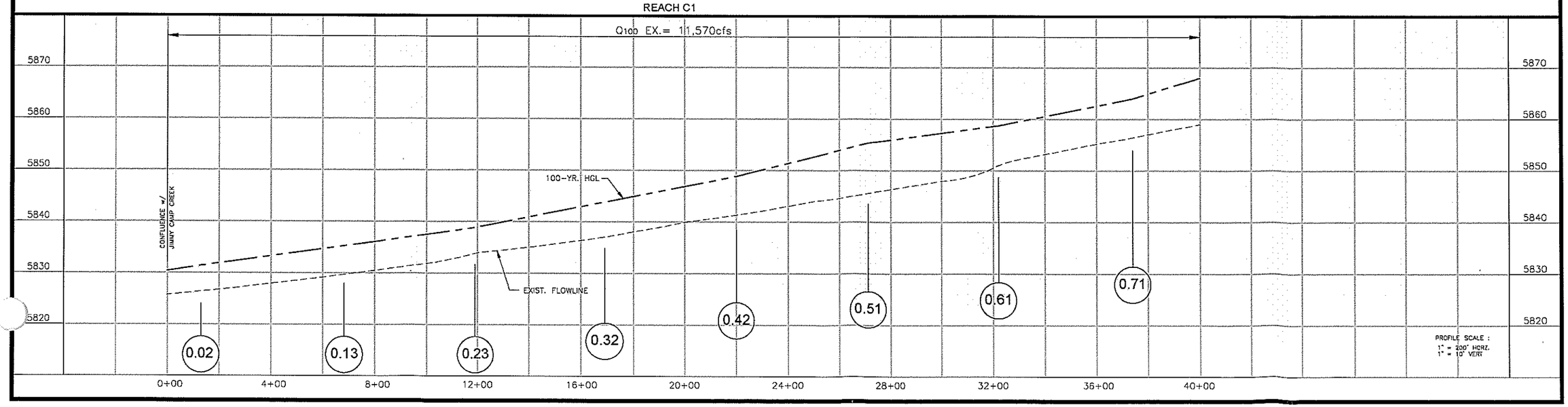
Check:	RNW
Revisions:	

SHEET
3M
OF X SHEETS

14008-3M-278fpp.mg/May 20, 2014



REACH C1



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CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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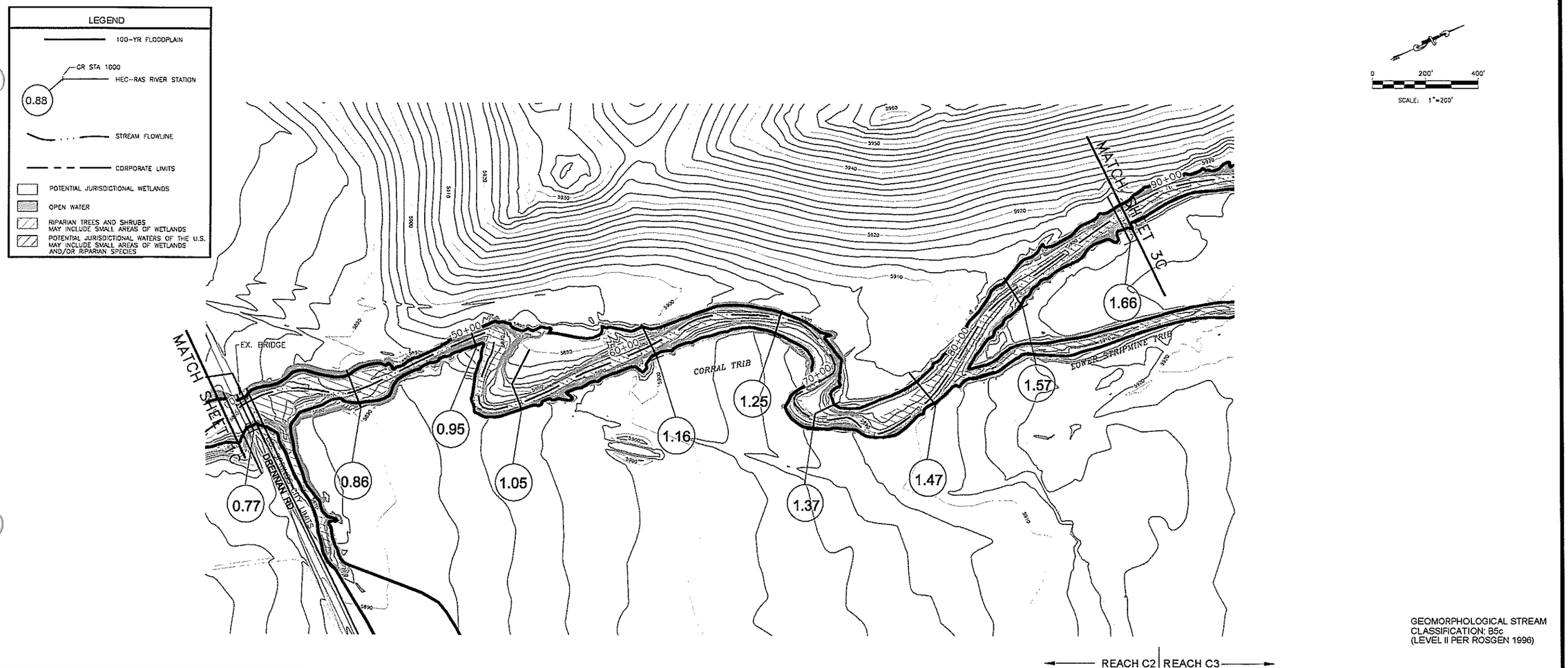
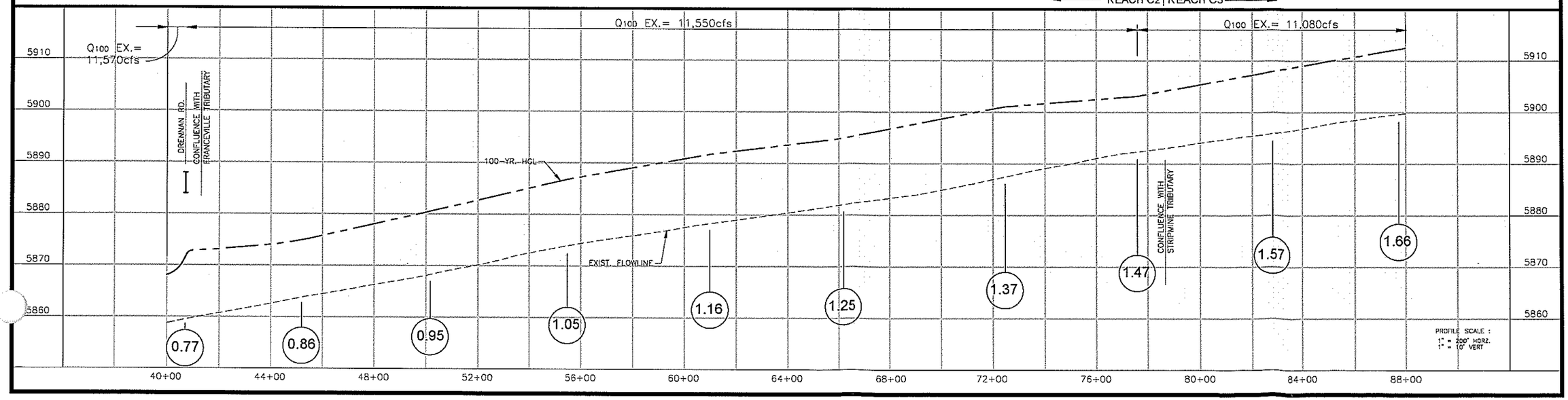
Check:	RNW
Revisions:	

SHEET
1C
OF X SHEETS

14008-1C-79bfpp.dwg/May 20, 2014





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CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

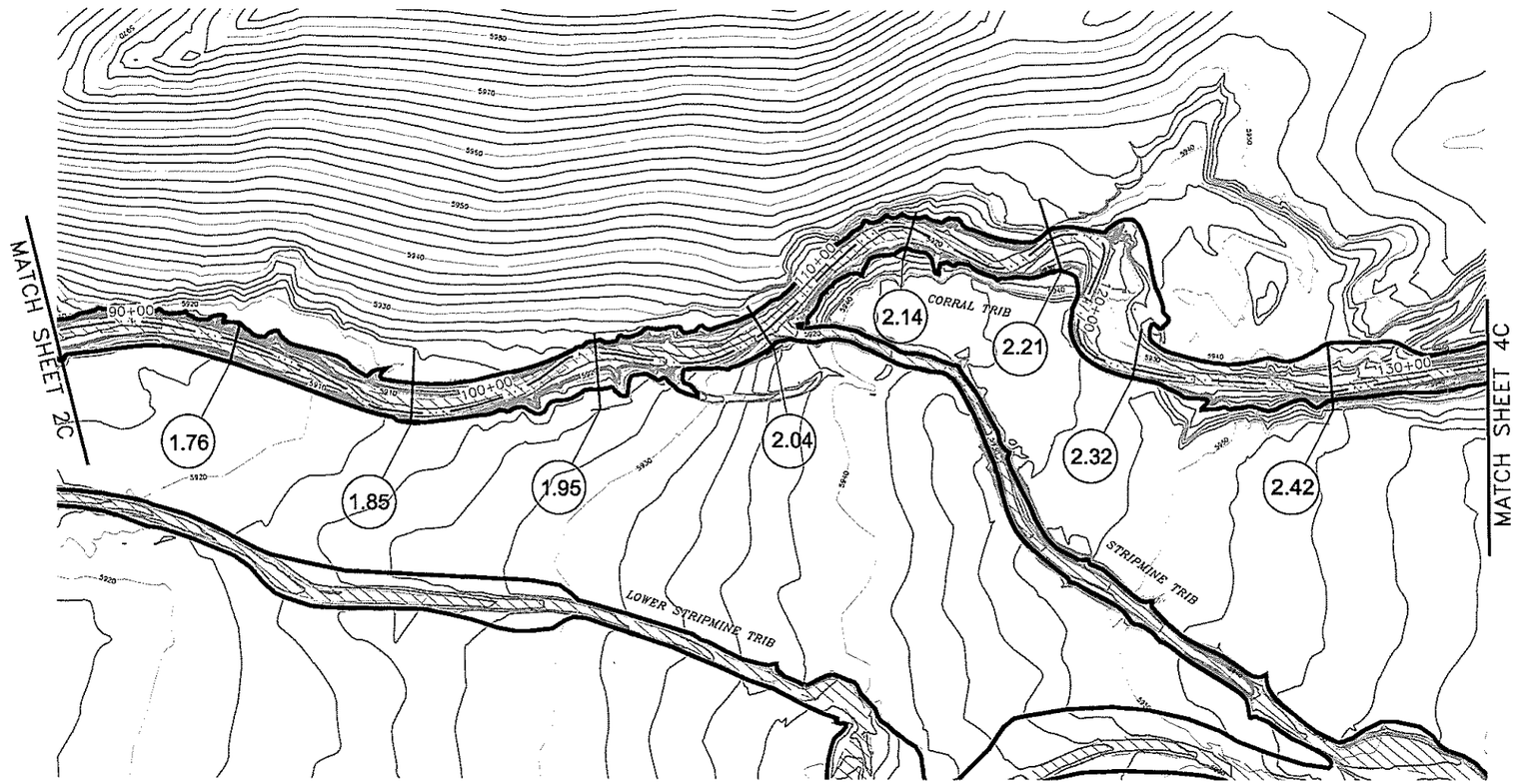
SHEET
2C
OF X SHEETS

14008-2C-311fpp.dwg/May 20, 2014

LEGEND

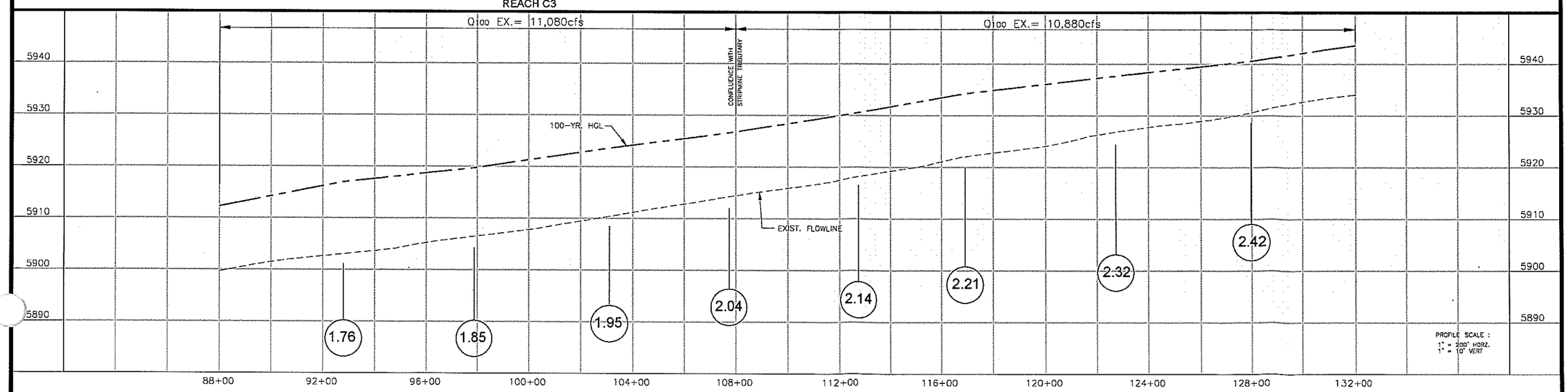
- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

0 200' 400'
SCALE: 1"=200'



GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)

REACH C3



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CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
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Drawn:	JLN
Check:	RNW
Revisions:	

SHEET 3C OF X SHEETS

14008-3C-311fpp.dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
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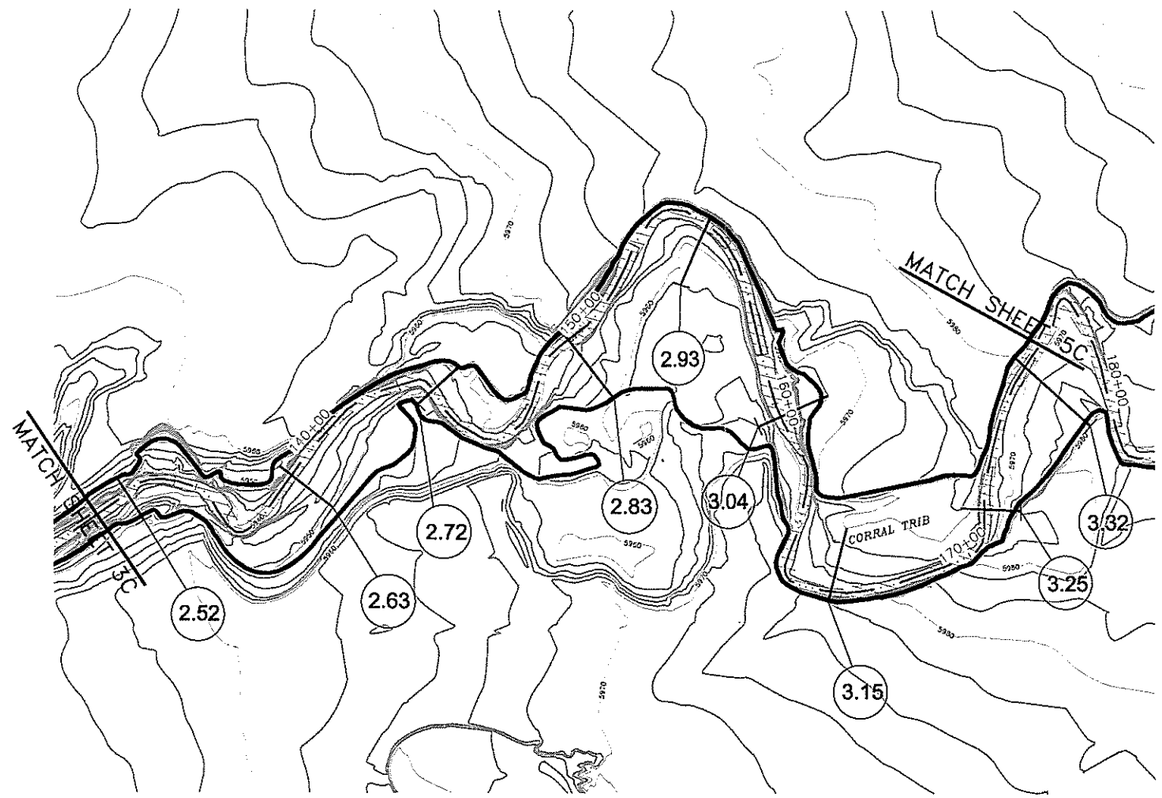

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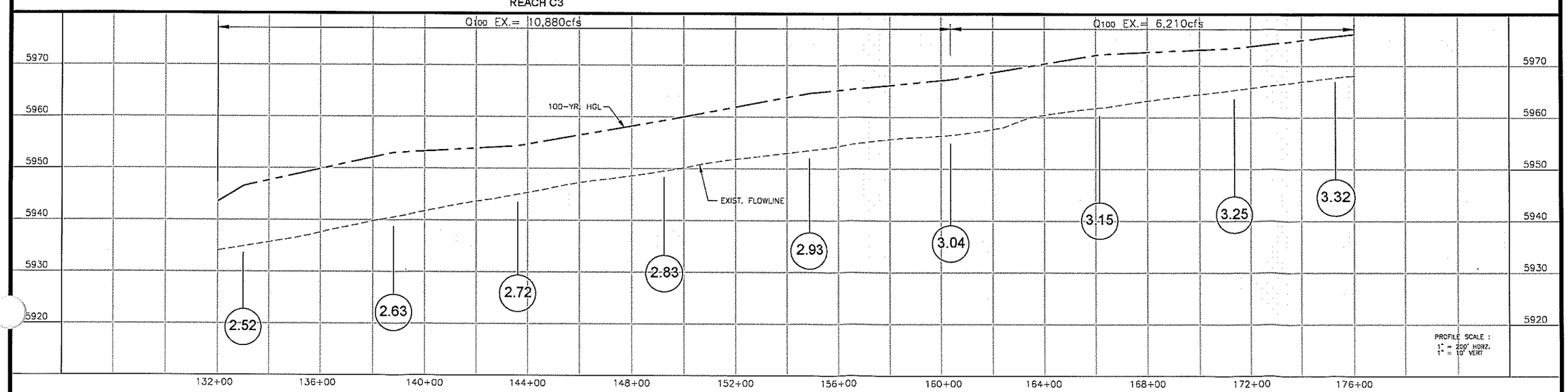
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c (LEVEL II PER ROSGEN 1996)

REACH C3



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET 4C OF X SHEETS

14008-4C-B267fpp.dwg/May 30, 2014

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
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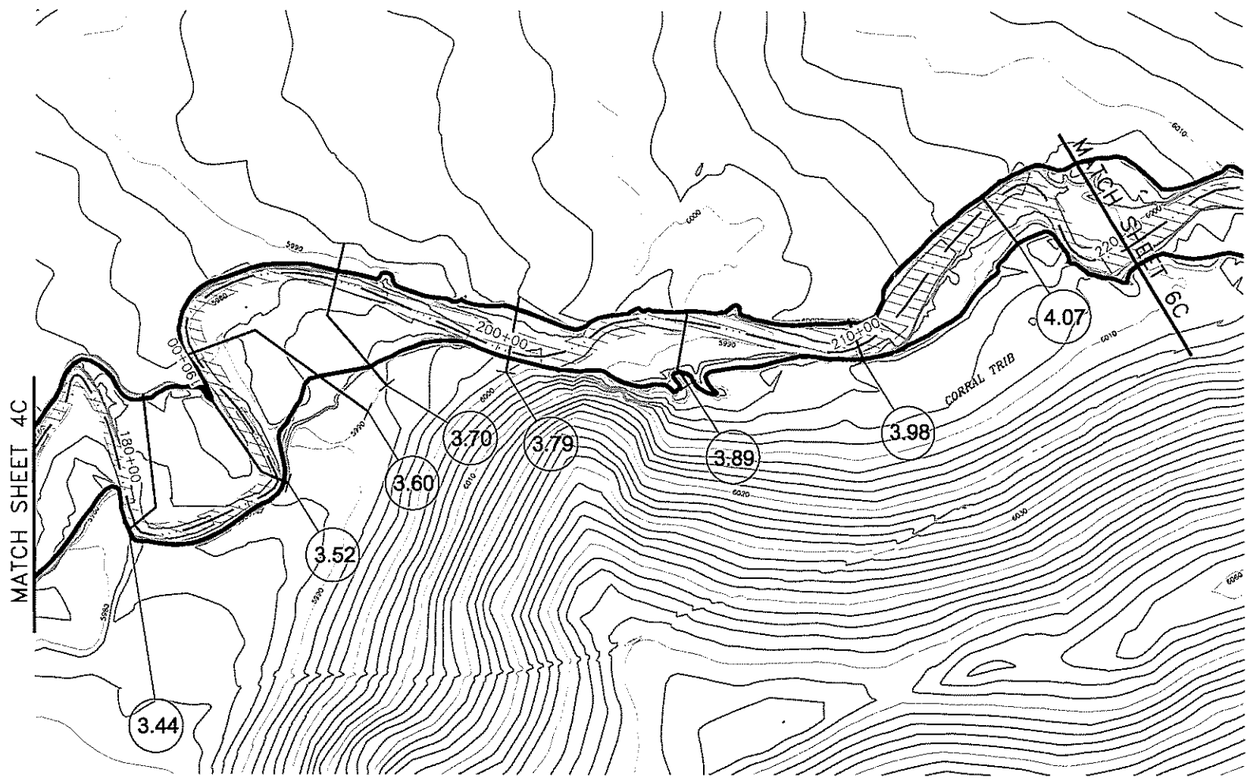

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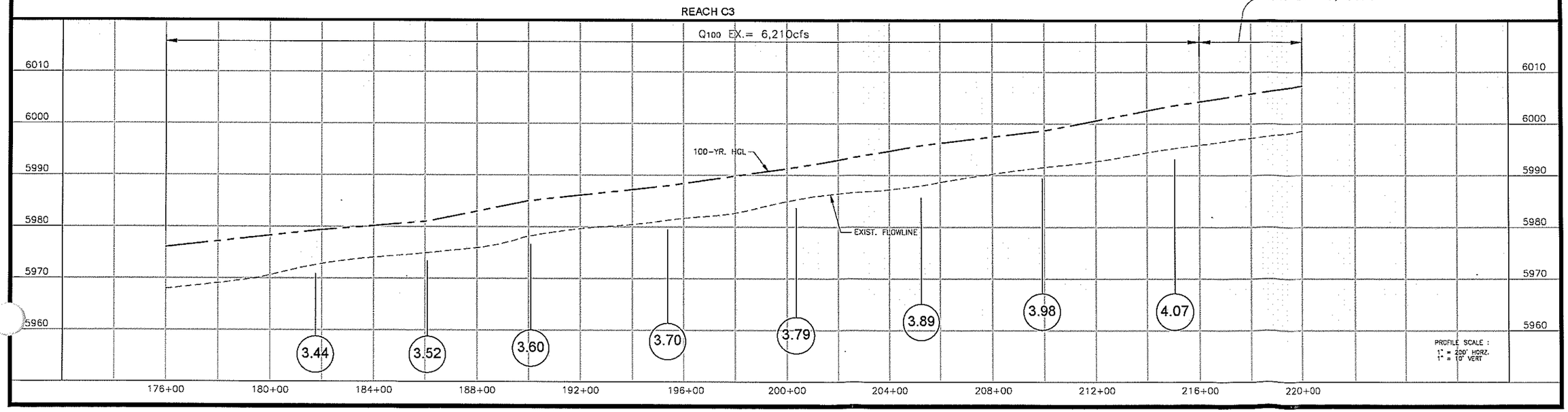
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5 (LEVEL II PER ROSGEN 1996)

REACH C3



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
CORRAL TRIBUTARY

FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET 5C OF X SHEETS

14008-5C-34112fpd.dwg/May 20, 2014

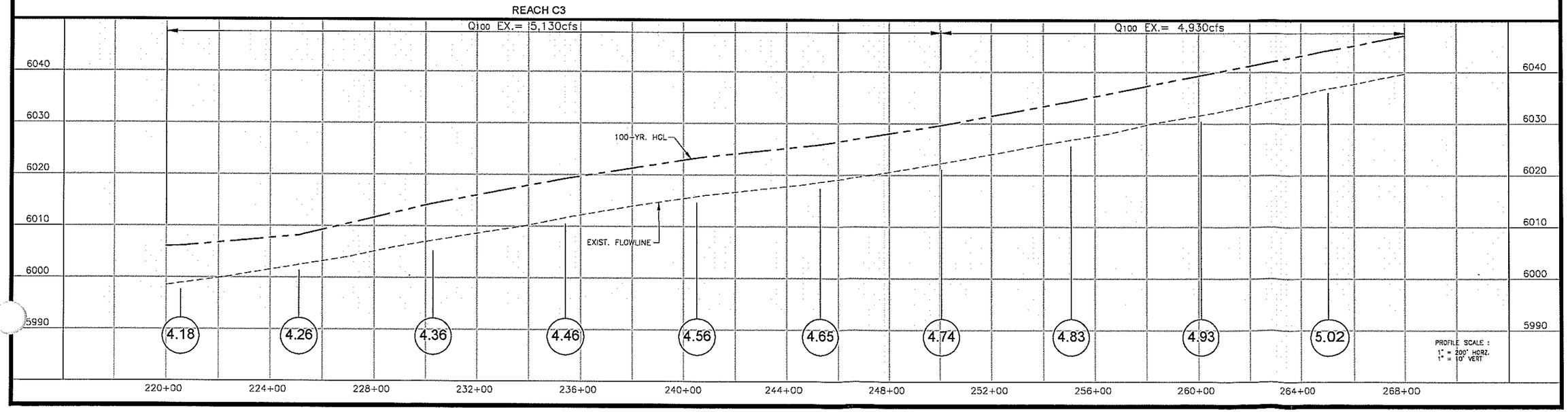
LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)

REACH C3



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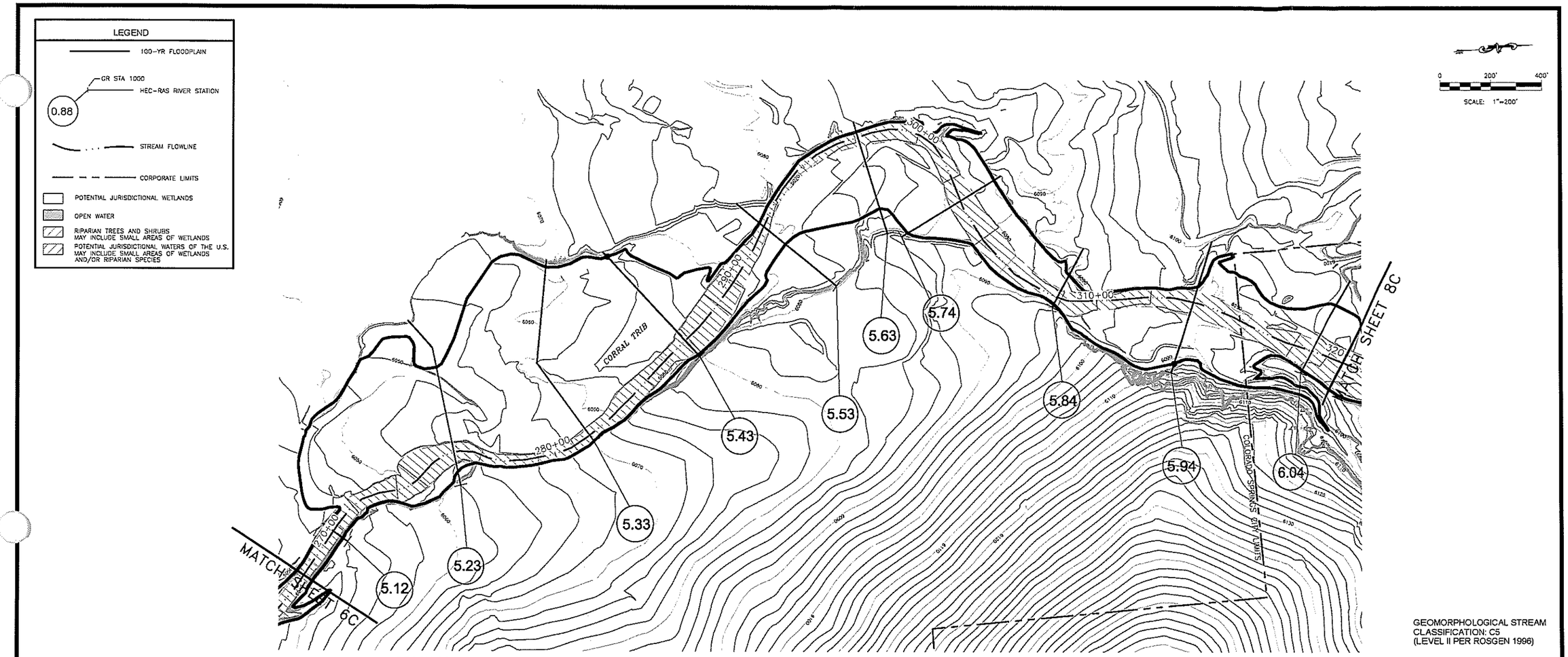
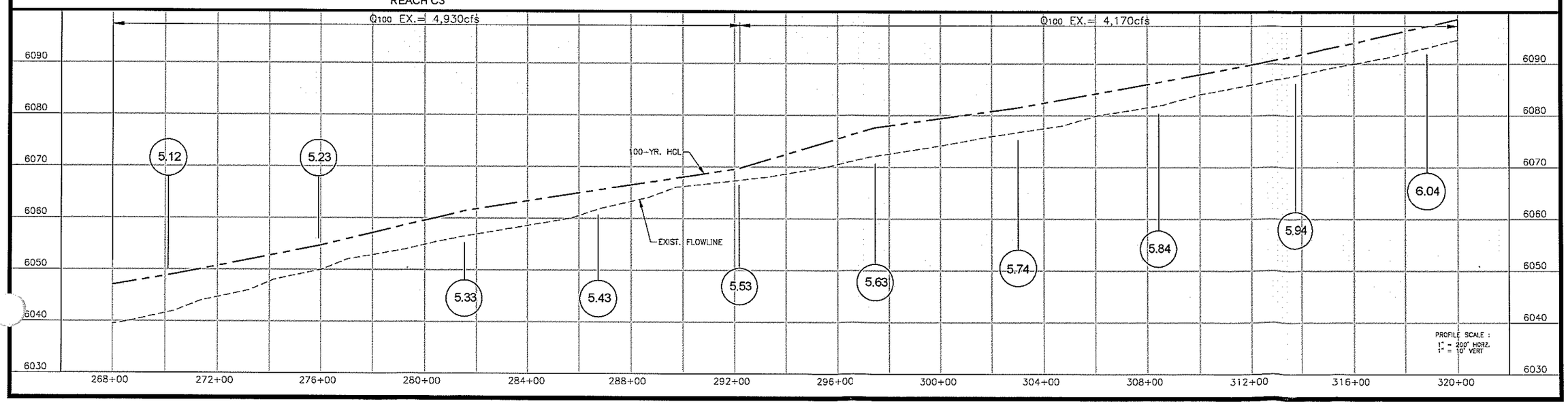
JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN/MFA
Check:	RNW
Revisions:	

SHEET 6C OF X SHEETS

14008-6C-3412fpp.dwg/May 20, 2014





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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

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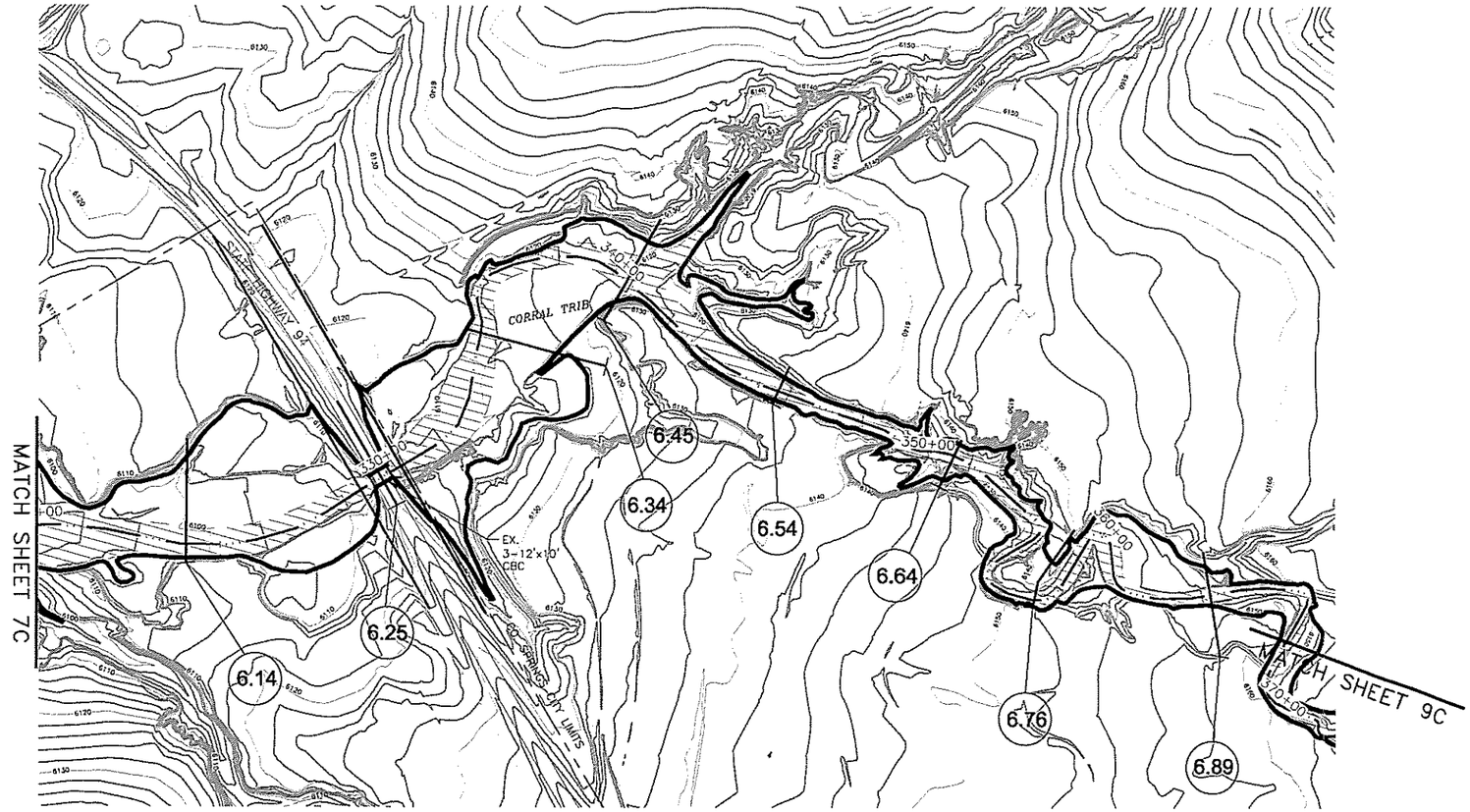
Check:	RNW
Revisions:	

SHEET
7C
OF X SHEETS

14008-7C-8571pp.dwg/May 20, 2014

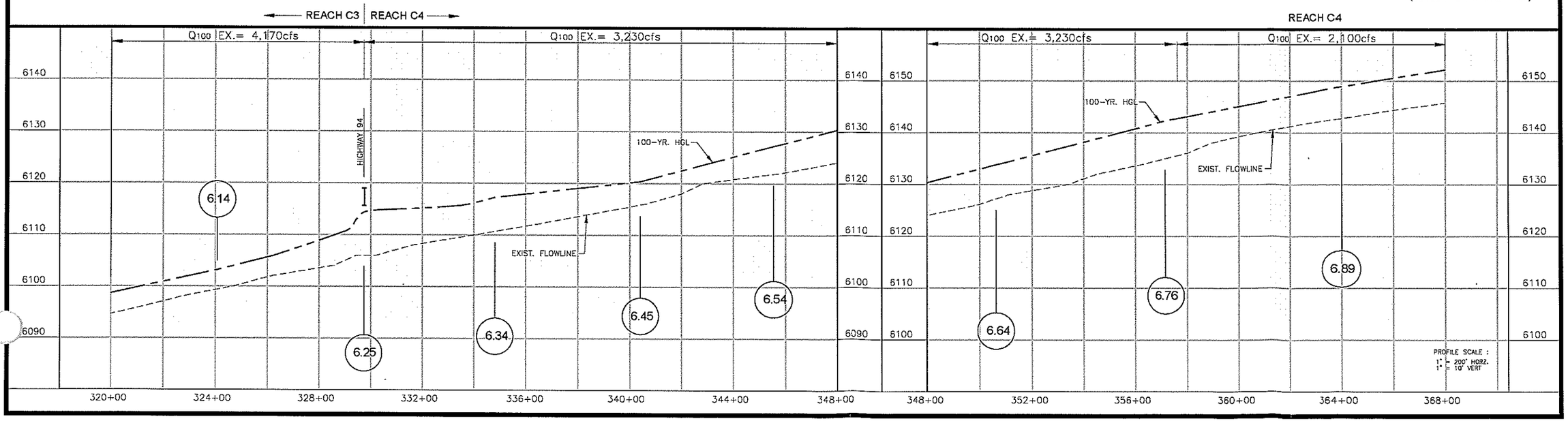
LEGEND

- 100-YR FLOODPLAIN
- 0.88 — CR STA 1000 — HEC-RAS RIVER STATION
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES



0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5
(LEVEL II PER ROSGEN 1996)



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
CORRAL TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

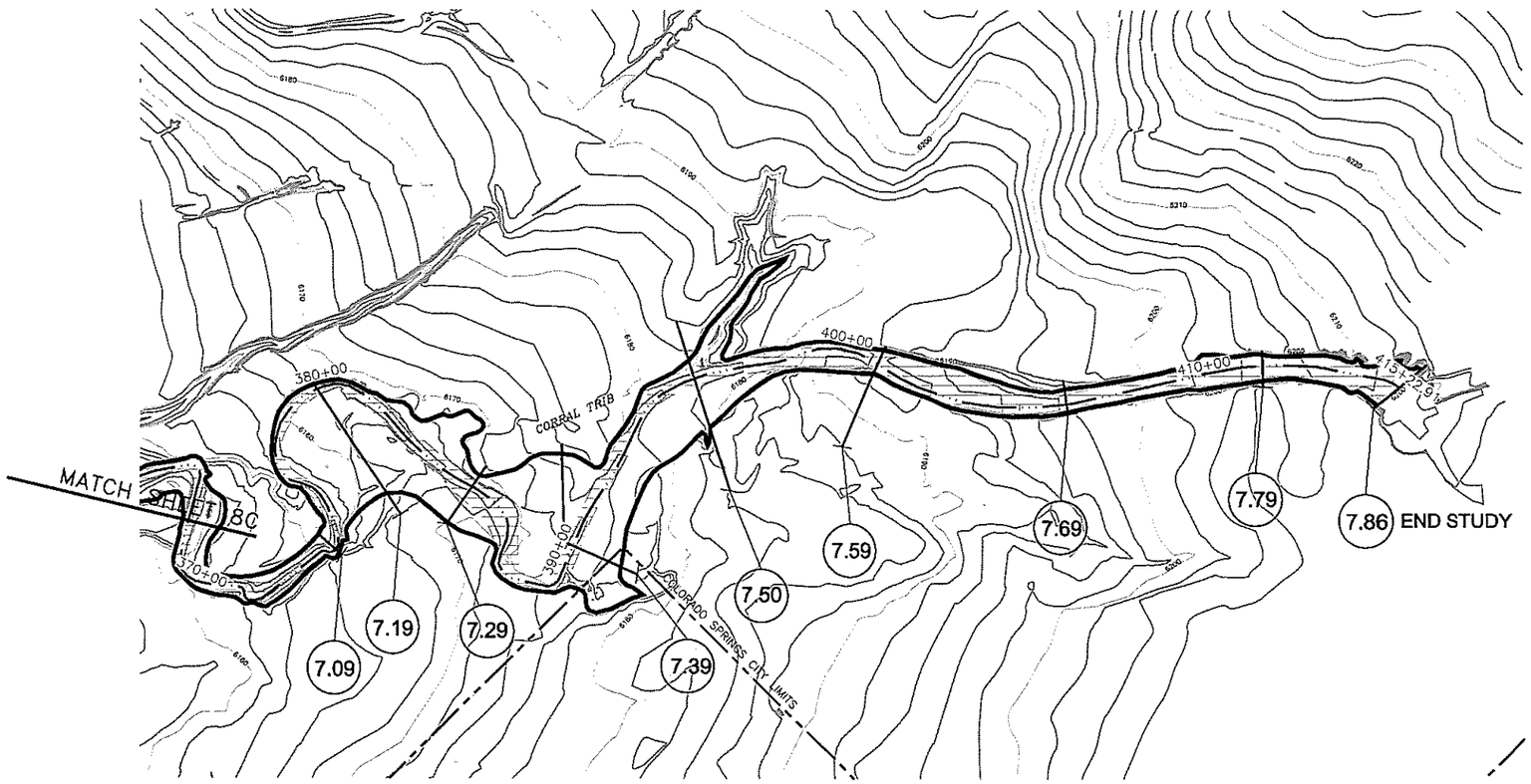
Project No.:	14008
Date:	SEPT. 2014
Design:	RNW
Drawn:	JLN/MFA
Check:	RNW
Revisions:	

SHEET 8C OF X SHEETS

14008-8C-3712fpp.dwg/May 28, 2014

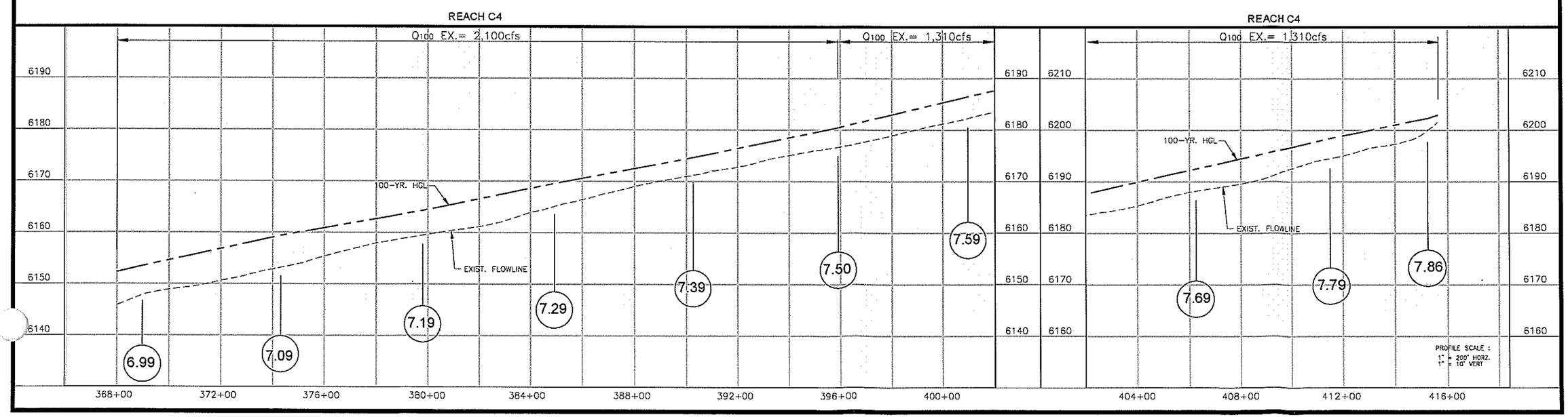
LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES



0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c
(LEVEL II PER ROSGEN 1996)



Kiowa Engineering Corporation
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CORRAL TRIBUTARY
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Project No.:	14008
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Design:	RNW
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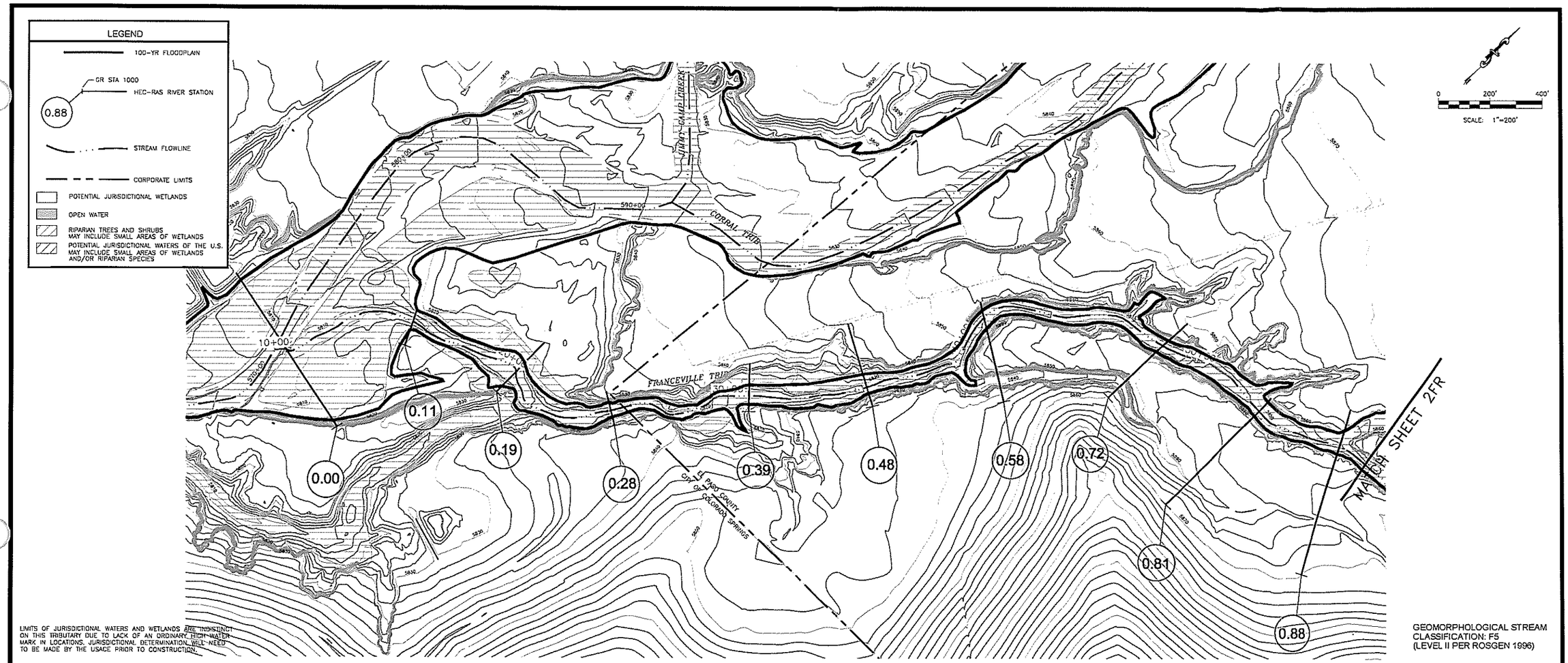
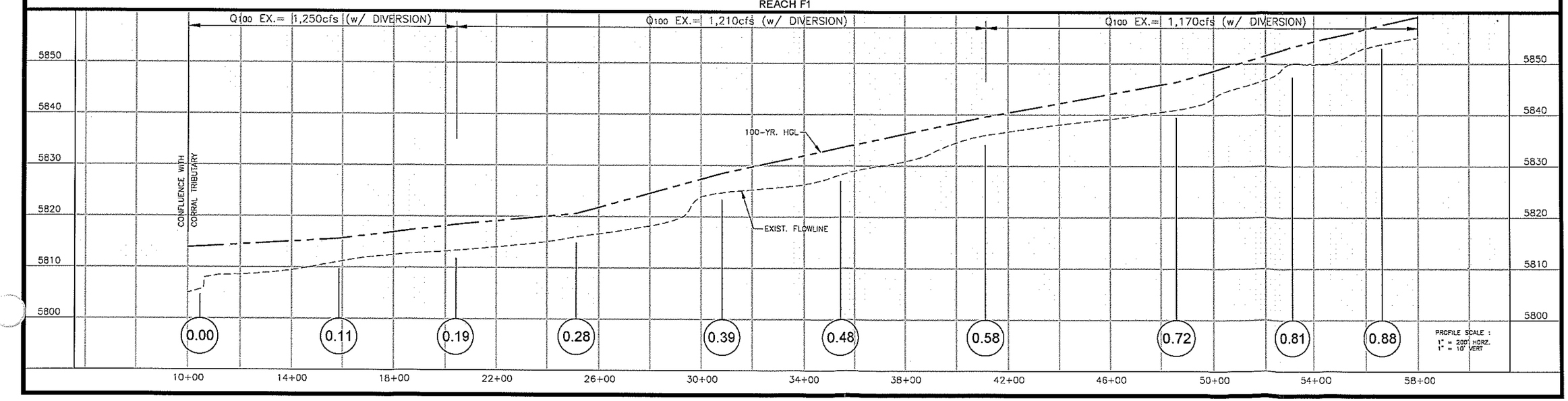
Revisions:	

SHEET 9C OF X SHEETS

14008-9C-687fpp.dwg/May 30, 2014





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FRANCEVILLE TRIBUTARY

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Revisions:	

SHEET
1FR
OF X SHEETS

14008-1FR-2501(pp.dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
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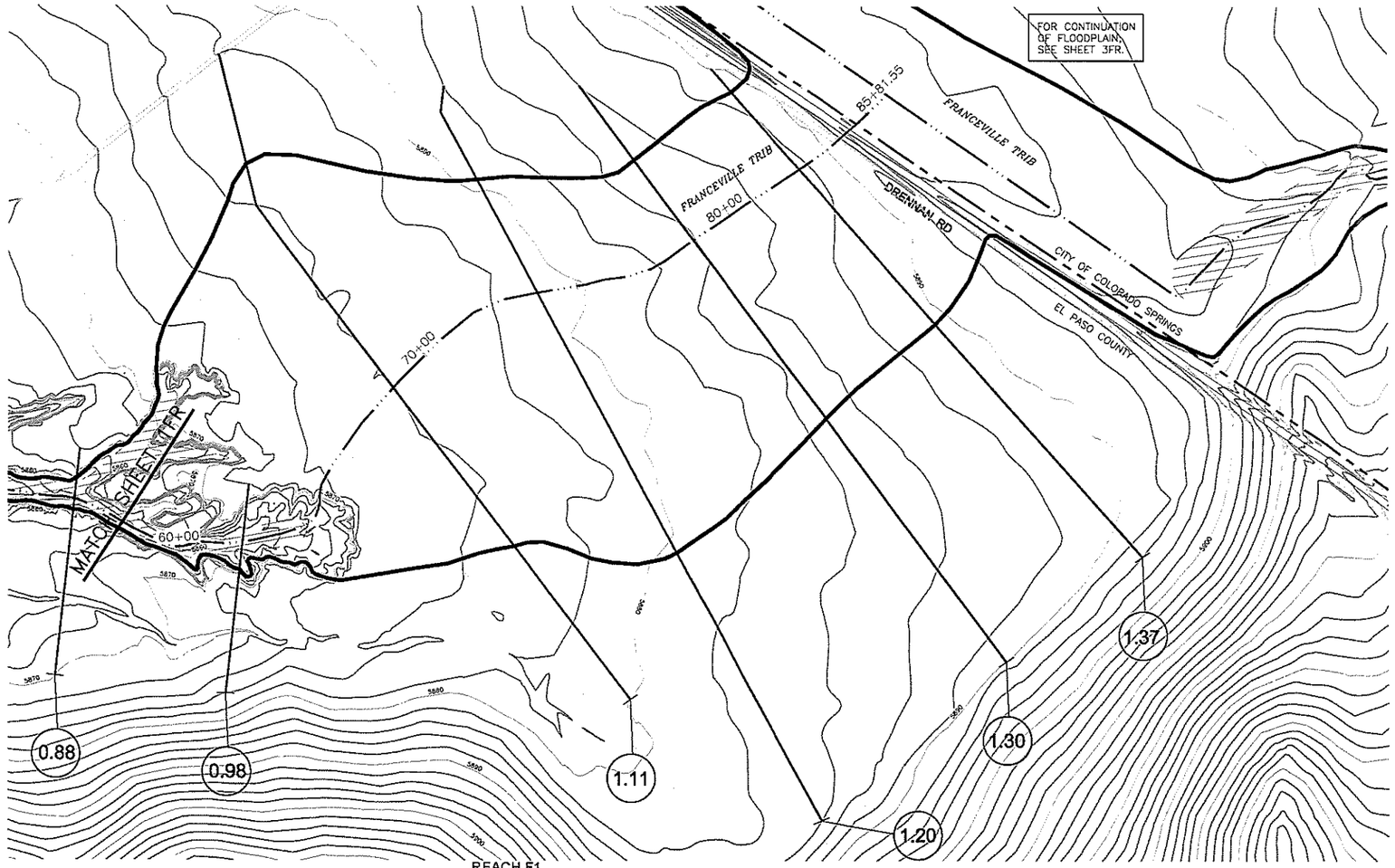
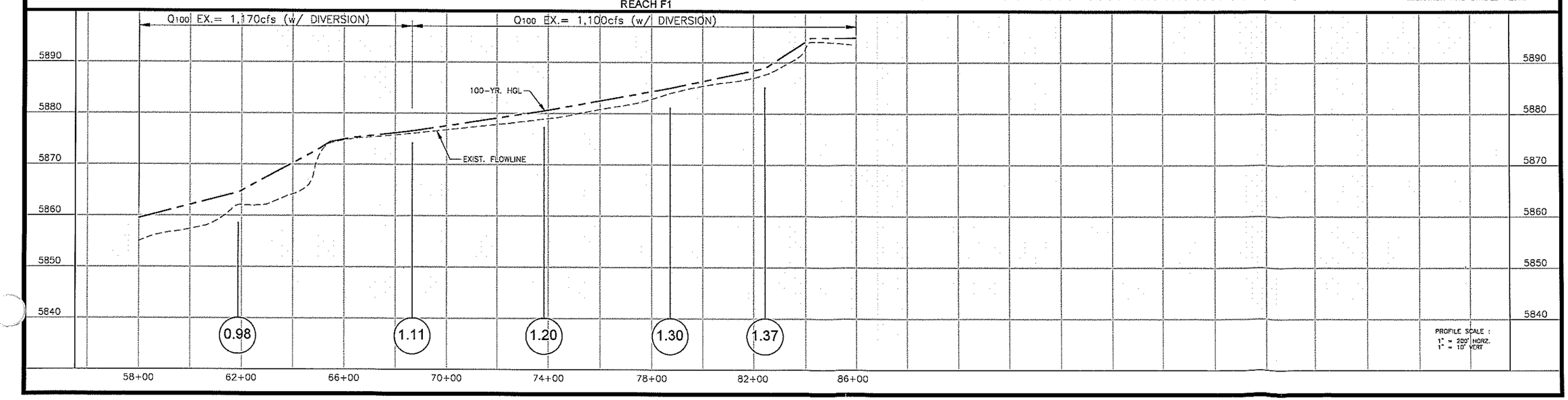
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.



0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: F5 (LEVEL II PER ROSGEN 1996)
STREAM CLASSIFICATION PERTAINS ONLY TO LOWER STREAM SEGMENT. CHANNEL UPSTREAM IS UNCLEAR DUE TO LATERAL MIGRATION AND DIVIDED FLOW.



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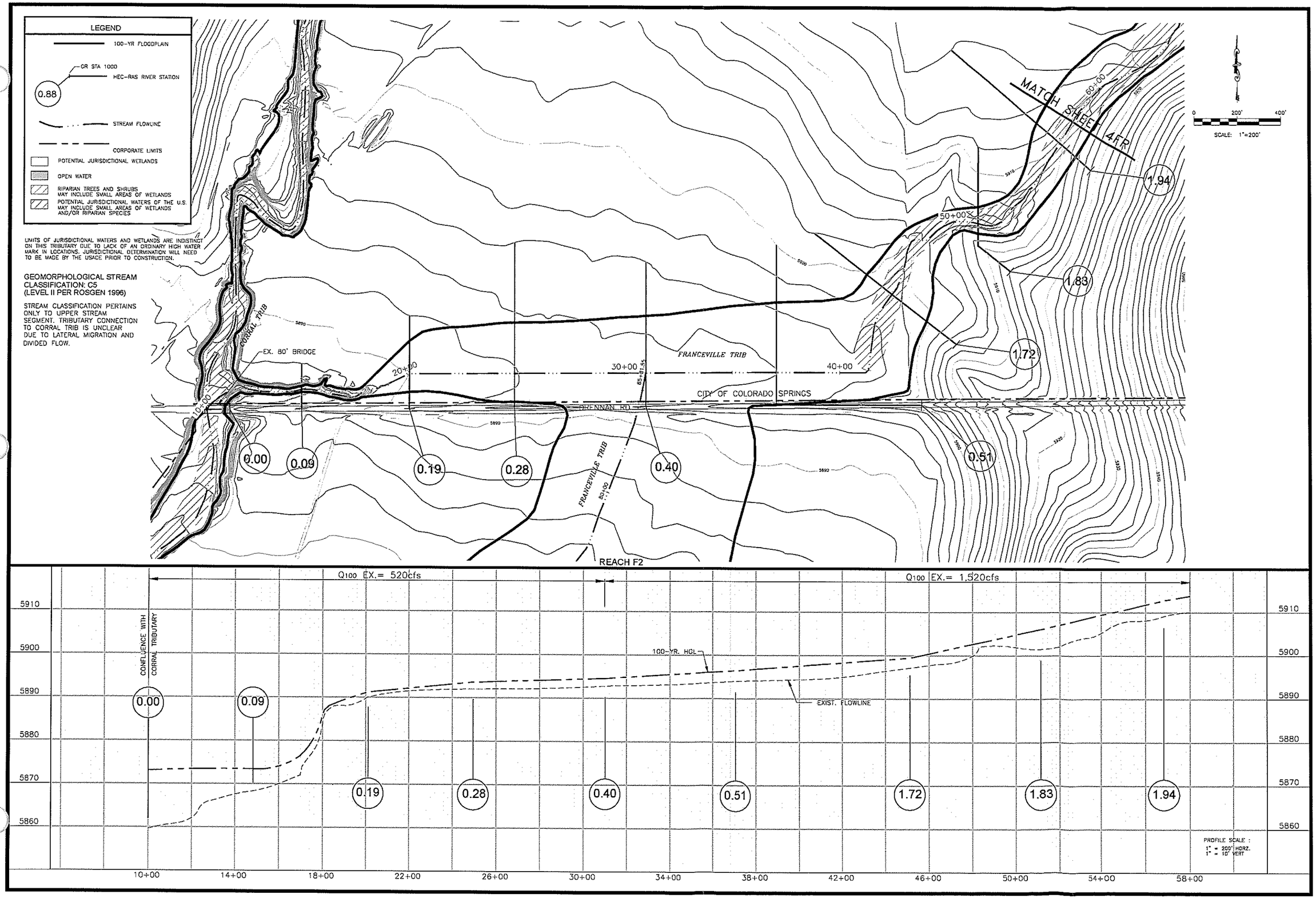
Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
2FR
OF X SHEETS

14008-2FR-798/pp dwg/May 20, 2014



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Project No.:	14008
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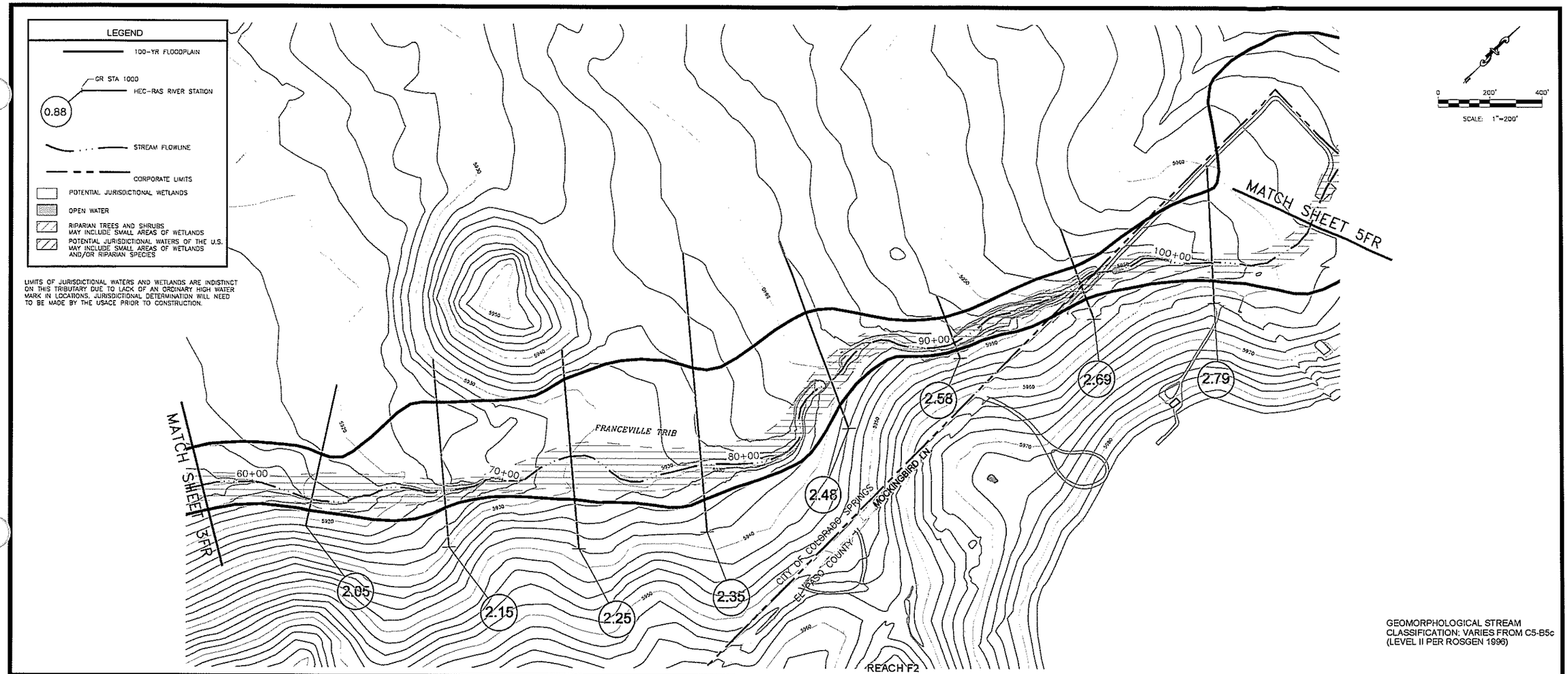
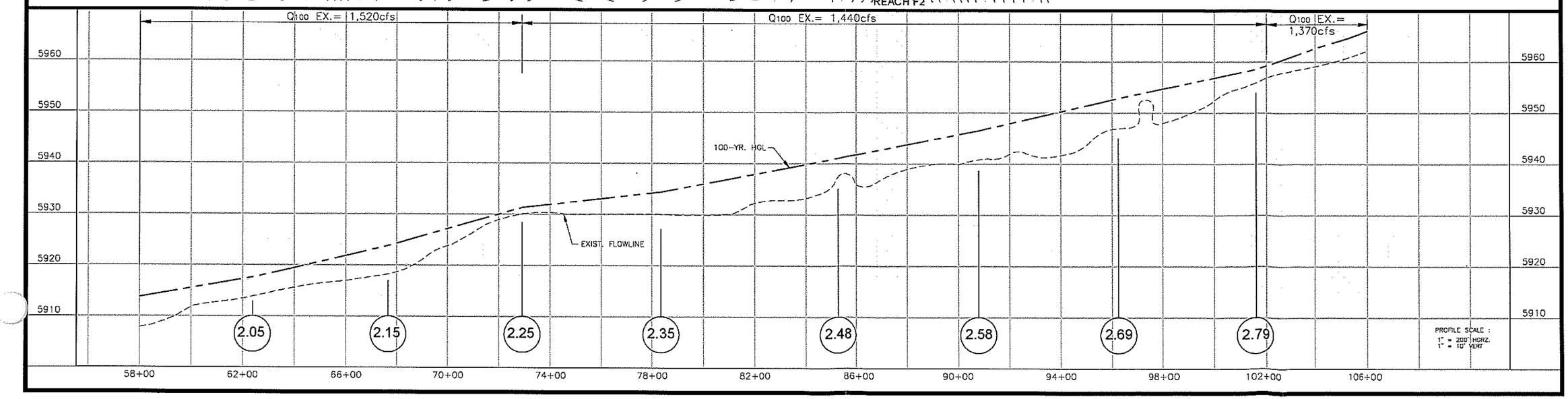
Revisions:	

SHEET
3FR
OF X SHEETS

14008-3FR-797fpdwg/May 20, 2014





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Drawn:	JLN
Check:	RNW
Revisions:	

SHEET
4FR
OF X SHEETS

14008-4FR-7975fpa.dwg/May 20, 2014

LEGEND

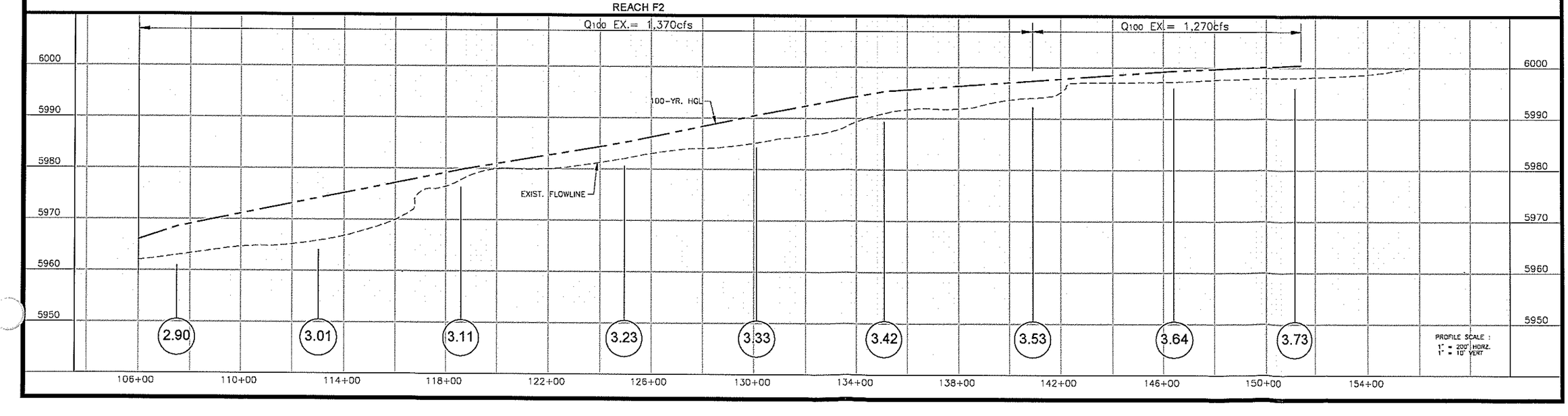
- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
- OPEN WATER
- RIPARIAN TREES AND SHRUBS MAY INCLUDE SMALL AREAS OF WETLANDS
- POTENTIAL JURISDICTIONAL WATERS OF THE U.S. MAY INCLUDE SMALL AREAS OF WETLANDS AND/OR RIPARIAN SPECIES

LIMITS OF JURISDICTIONAL WATERS AND WETLANDS ARE INDISTINCT ON THIS TRIBUTARY DUE TO LACK OF AN ORDINARY HIGH WATER MARK IN LOCATIONS. JURISDICTIONAL DETERMINATION WILL NEED TO BE MADE BY THE USACE PRIOR TO CONSTRUCTION.

0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: VARIES FROM C5-B5c (LEVEL II PER ROSGEN 1996)

REACH F2



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Check:	RNW
Revisions:	

SHEET
5FR
OF X SHEETS

14008-5FR-312fpp dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
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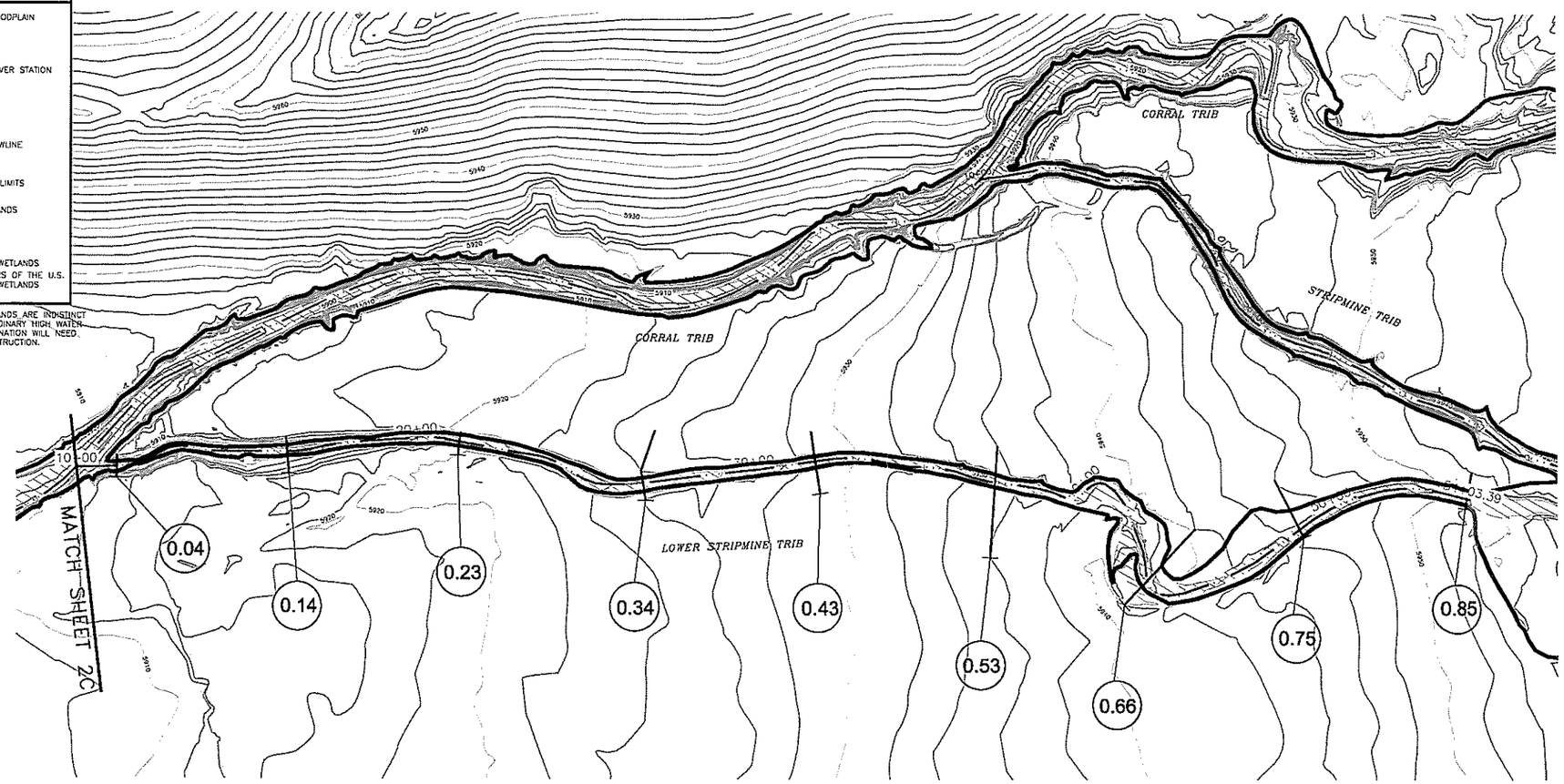
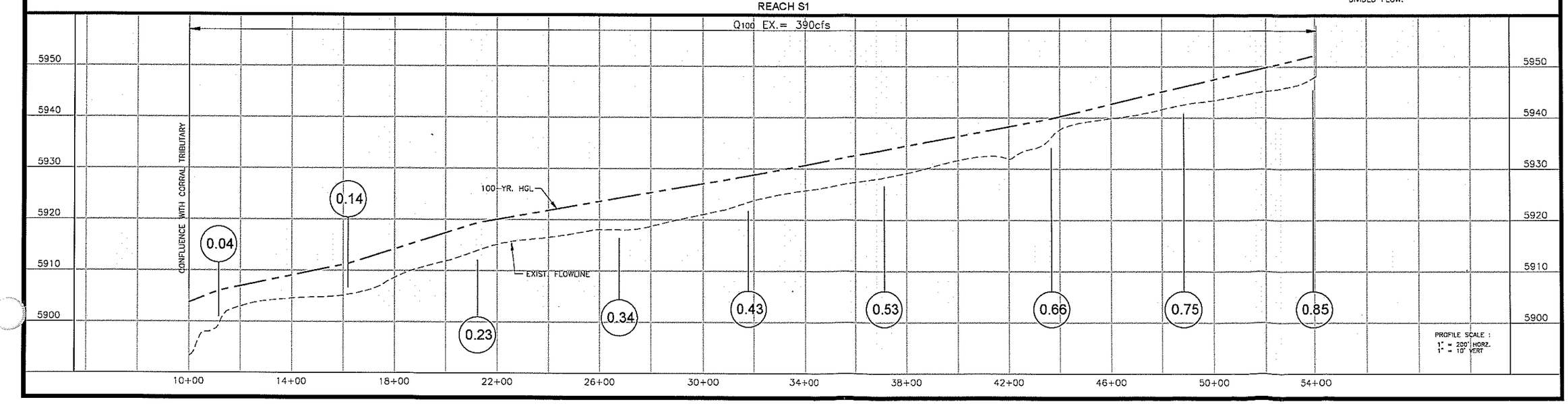


0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: not applicable on this segment (LEVEL II PER ROSGEN 1996)

STREAM CLASSIFICATION PERTAINS ONLY TO UPPER STREAM SEGMENT. TRIBUTARY CONNECTION TO CORRAL TRIB IS UNCLEAR DUE TO LATERAL MIGRATION AND DIVIDED FLOW.

REACH S1



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JIMMY CAMP CREEK DRAINAGE BASIN PLANNING STUDY
STRIPMINE TRIBUTARY
FLOODPLAIN, ENVIRONMENTAL RESOURCE & STREAM CLASSIFICATION INFORMATION
CITY OF COLORADO SPRINGS, CITY OF FOUNTAIN AND EL PASO COUNTY, COLORADO

Project No.:	14008
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Design:	RNW
Drawn:	JLN/MFA
Check:	RNW
Revisions:	

SHEET
1ST
OF X SHEETS

14008-1ST-311fpa.dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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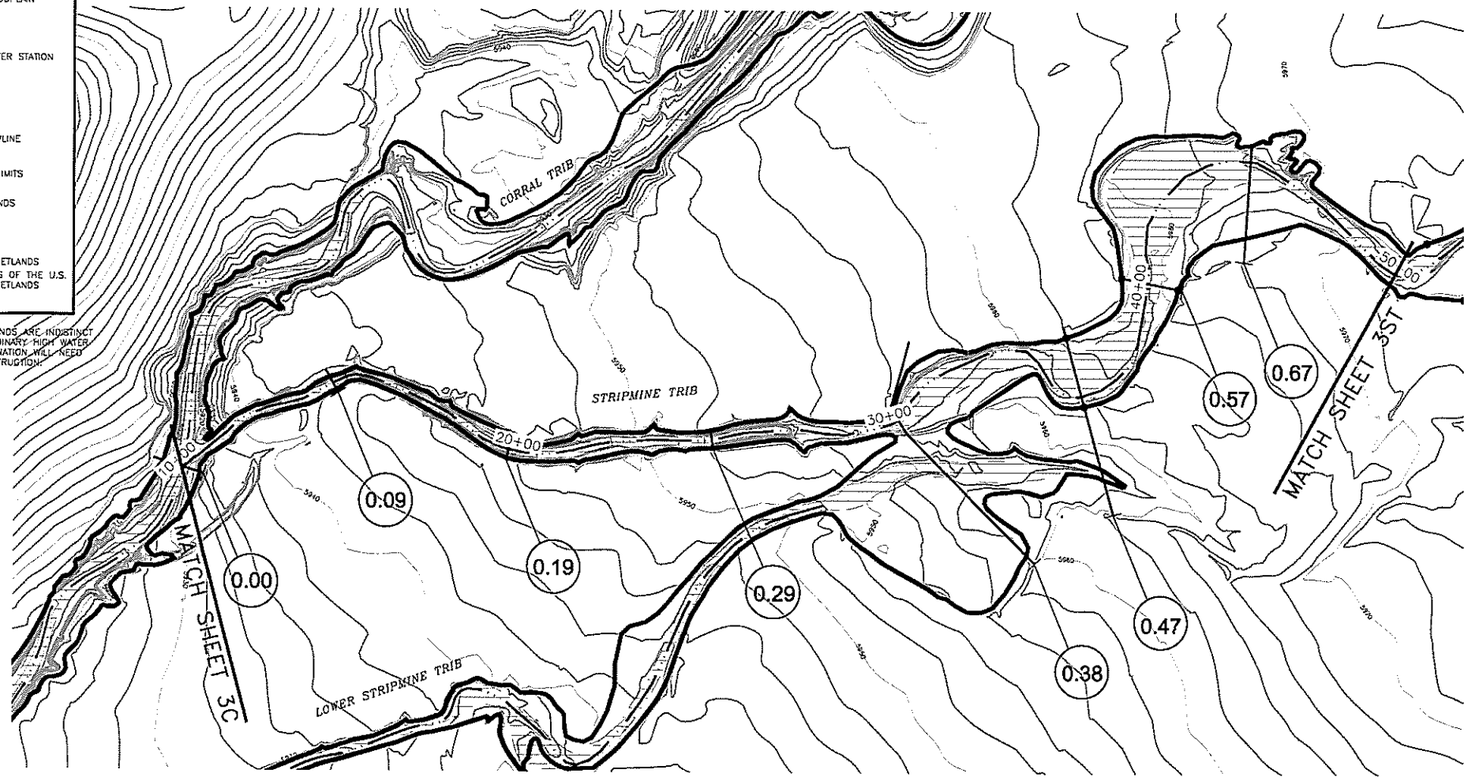
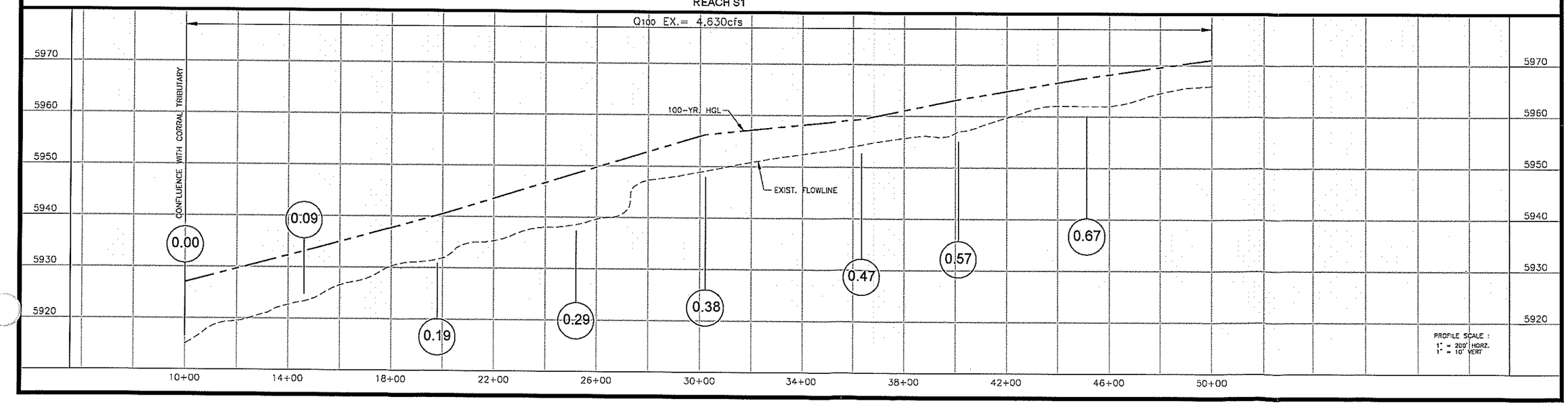


0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: not applicable on this segment (LEVEL II PER ROSGEN 1996)

STREAM CLASSIFICATION PERTAINS ONLY TO UPPER STREAM SEGMENT. TRIBUTARY CONNECTION TO CORRAL TRIB IS UNCLEAR DUE TO LATERAL MIGRATION AND DIVIDED FLOW.

REACH S1



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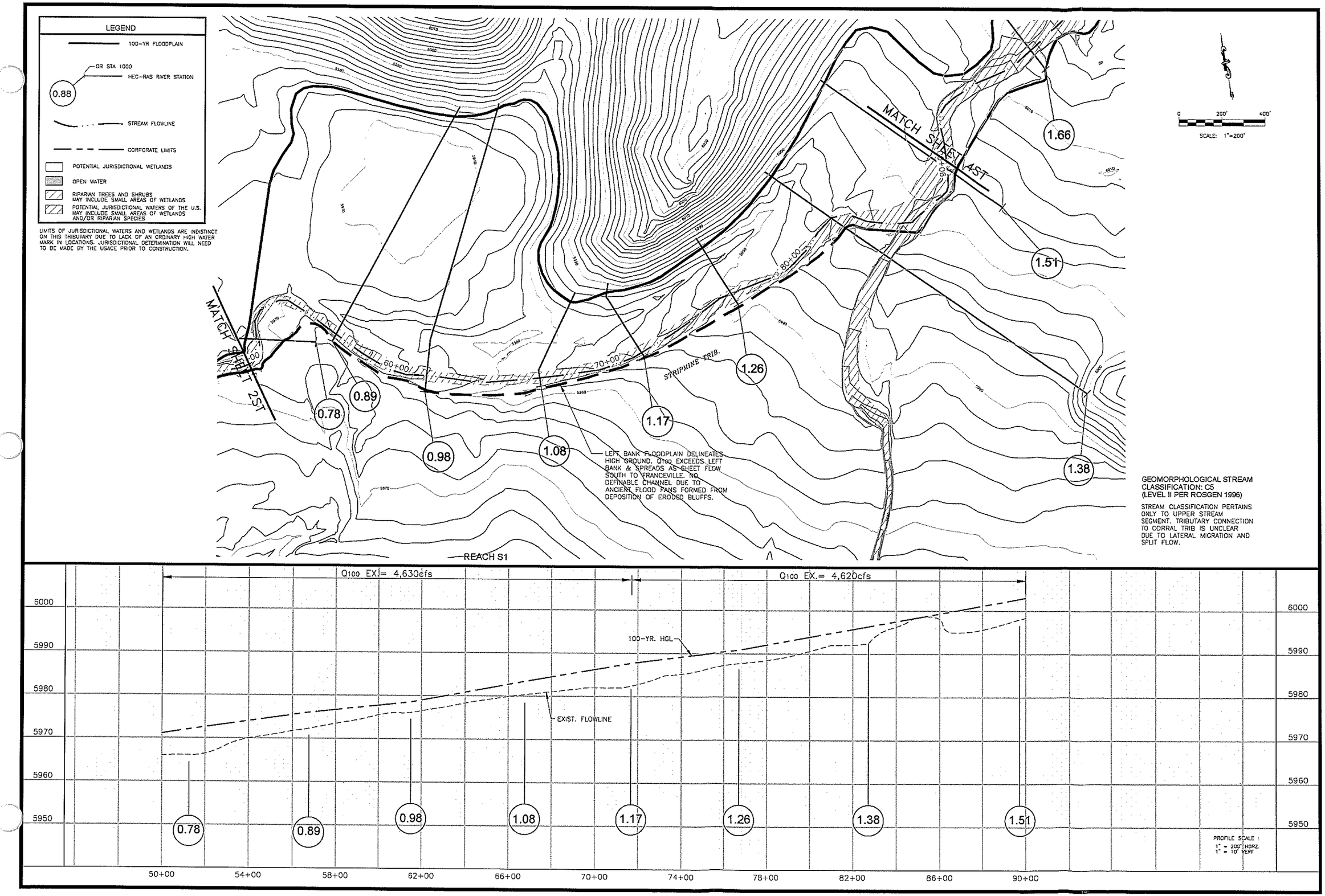
Check:	RNW
Revisions:	

SHEET
2ST
OF X SHEETS

14008-2ST-311fpp.dwg/May 29, 2014



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Check:	RNW
Revisions:	

SHEET
3ST
OF X SHEETS

14008-3ST-827fpp.dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- CR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
- CORPORATE LIMITS
- POTENTIAL JURISDICTIONAL WETLANDS
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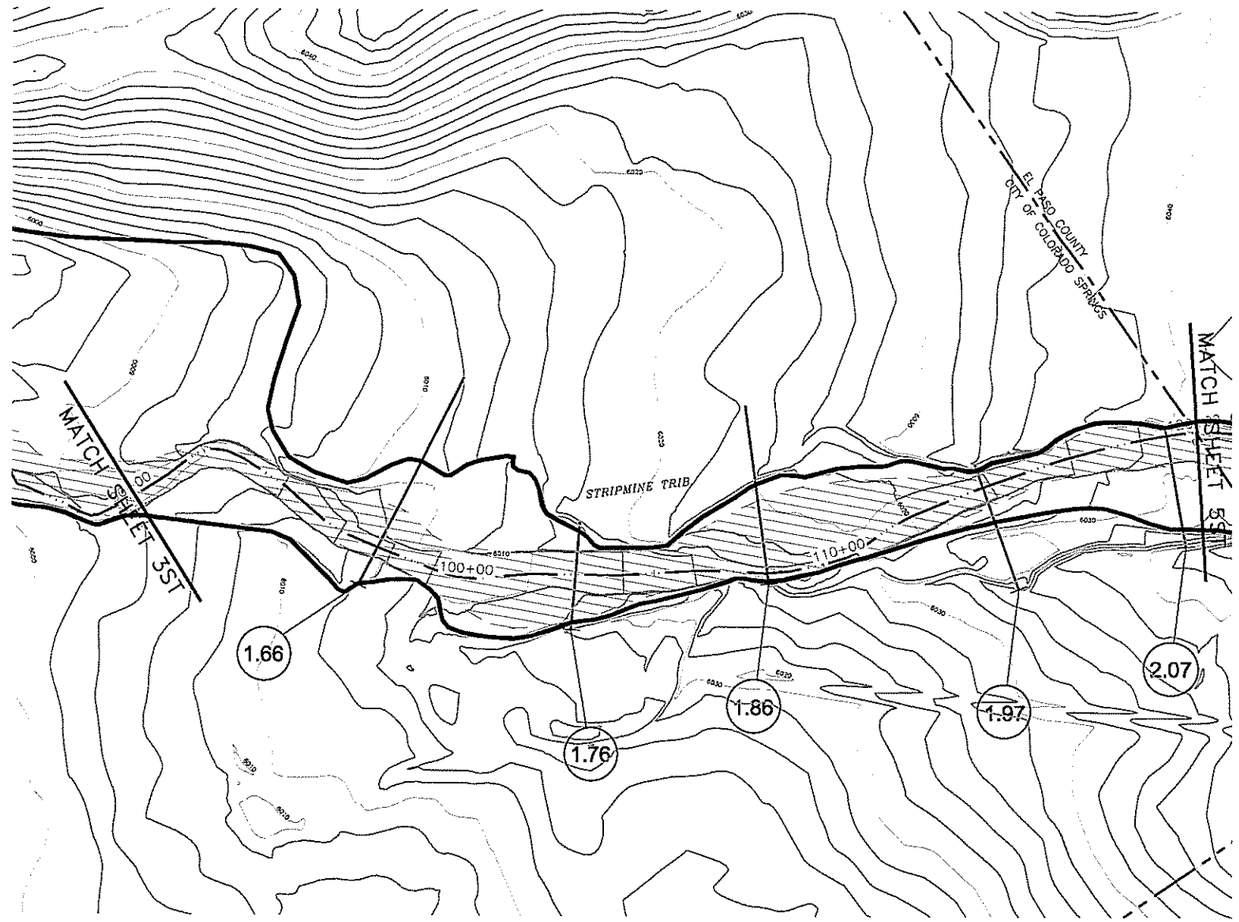
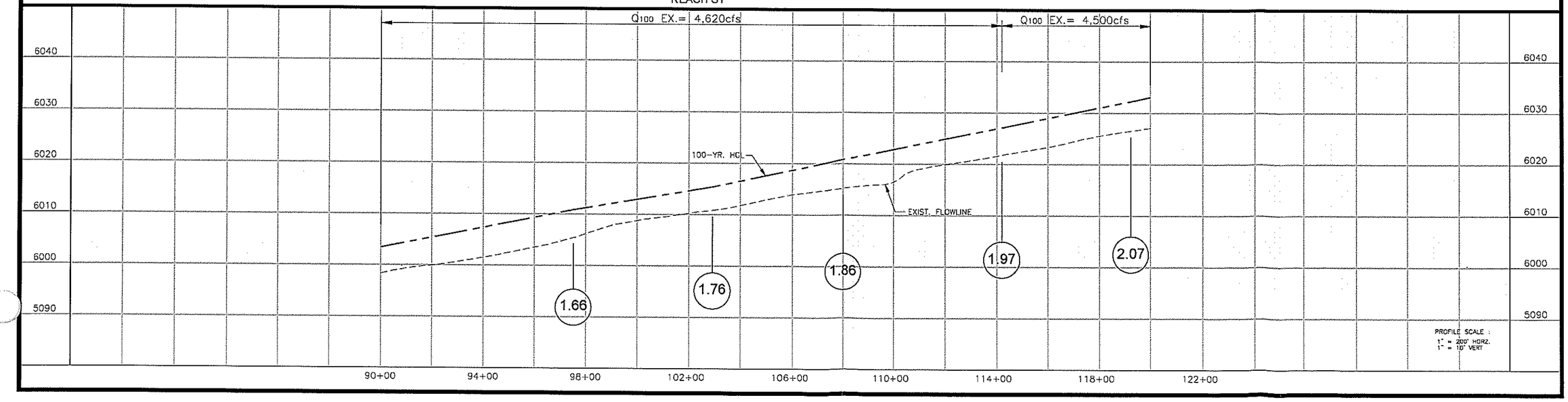


0 200' 400'
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: B5c (LEVEL II PER ROSGEN 1996)

REACH S1



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SHEET 4ST OF X SHEETS

14008-4ST-S27fpp.dwg/May 20, 2014

LEGEND

- 100-YR FLOODPLAIN
- GR STA 1000 — HEC-RAS RIVER STATION (0.88)
- STREAM FLOWLINE
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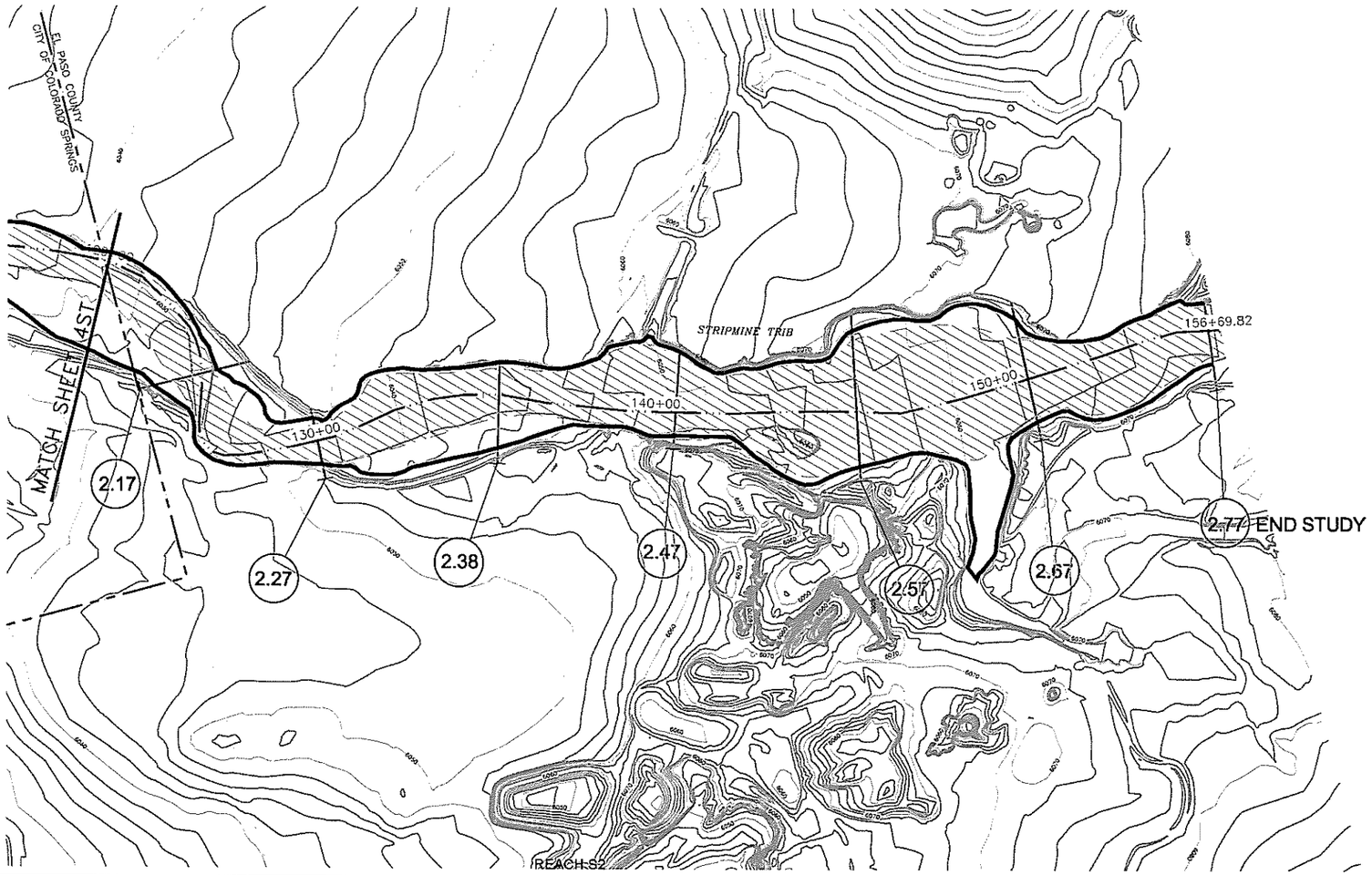

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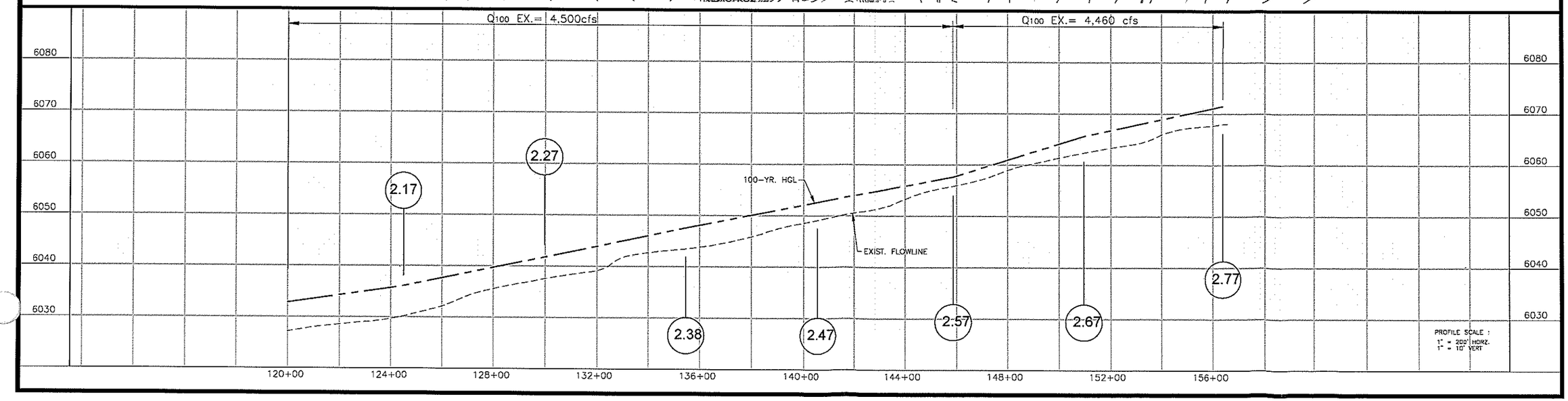
SCALE: 1"=200'

GEOMORPHOLOGICAL STREAM CLASSIFICATION: C5b (LEVEL II PER ROSGEN 1996)



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SHEET
5ST
OF X SHEETS

14008-5ST-343fpp.dwg/May 20, 2014