

HEC-RAS HEC-RAS 5.0.7 March 2019
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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PROJECT DATA

Project Title: Rainbow Tributary
Project File : Rainbow Trib.prj
Run Date and Time: 3/22/2021 9:21:36 PM

Project in English units

PLAN DATA

Plan Title: Revised Existing
Plan File : e:\10820 - Los Diamantes\Scans\CLOMR\1st Submittal\Models\HEC-RAS\Rainbow Trib.p02

Geometry Title: Revised Existing
Geometry File : e:\10820 - Los Diamantes\Scans\CLOMR\1st Submittal\Models\HEC-RAS\Rainbow Trib.g02

Flow Title : Revised Existing
Flow File : e:\10820 - Los Diamantes\Scans\CLOMR\1st Submittal\Models\HEC-RAS\Rainbow Trib.f02

Plan Description:

Existing watershed conditions post-construction of the SSCAFCA Rainbow Trib pond and channel.

Plan Summary Information:

Number of: Cross Sections = 33 Multiple Openings = 0
Culverts = 0 Inline Structures = 0
Bridges = 0 Lateral Structures = 0

Computational Information

Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 20
Maximum difference tolerance = 0.33
Flow tolerance factor = 0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

FLOW DATA

Flow Title: Revised Existing
Flow File : e:\10820 - Los Diamantes\Scans\CLOMR\1st Submittal\Models\HEC-RAS\Rainbow Trib.f02

Flow Data (cfs)

River	Reach	RS	010-YR	050-YR	100-YR	500-YR
Rainbow Trib	North-DS-0	7061	207	381	472	709
Rainbow Trib	North-DS-0	4696	212	416	529	833
Rainbow Trib	North-DS-0	2237	218	440	579	961

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Rainbow Trib	North-DS-0	010-YR	Normal S = 0.022941	Normal S = 0.019268
Rainbow Trib	North-DS-0	050-YR	Normal S = 0.022941	Normal S = 0.019268
Rainbow Trib	North-DS-0	100-YR	Normal S = 0.022941	Normal S = 0.019268
Rainbow Trib	North-DS-0	500-YR	Normal S = 0.022941	Normal S = 0.019268

GEOMETRY DATA

Geometry Title: Revised Existing
Geometry File : e:\10820 - Los Diamantes\Scans\CLOMR\1st Submittal\Models\HEC-RAS\Rainbow Trib.g02

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 7061

INPUT
Description:

Station		Elevation		Data		num=		398									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5519.93	.52	5519.93	.88	5519.86	1.97	5519.89	2.34	5519.86								
2.97	5519.88	3.8	5519.85	4.3	5519.85	5.26	5519.8	6.24	5519.74								
6.62	5519.72	6.72	5519.71	6.88	5519.7	8.18	5519.57	8.95	5519.51								
9.64	5519.42	10.8	5519.29	11.1	5519.26	11.27	5519.25	11.97	5519.2								
12.56	5519.16	13.6	5519.08	14.02	5519.07	14.72	5519.04	15.48	5519.03								
15.93	5519.04	16.94	5519.05	17.69	5519.06	18.25	5519.07	18.4	5519.06								
18.64	5519.04	19.86	5518.95	20.58	5518.89	21.31	5518.85	22.55	5518.79								
22.77	5518.77	24.23	5518.77	25.23	5518.76	25.69	5518.77	26.47	5518.74								
27.15	5518.72	27.56	5518.7	28.61	5518.65	29.14	5518.61	29.88	5518.58								
30.07	5518.57	30.39	5518.55	31.53	5518.52	32.21	5518.52	32.99	5518.46								
34.31	5518.43	34.45	5518.42	35.91	5518.42	36.86	5518.39	37.37	5518.38								
38.22	5518.35	38.83	5518.33	39.19	5518.32	40.29	5518.28	40.59	5518.23								
41.51	5518.18	41.75	5518.18	42.14	5518.14	43.21	5518.07	43.84	5518.04								
44.67	5518	46.32	5518	47.58	5518.03	48.49	5518.01	50.5	5518.01								
50.82	5517.99	51.96	5517.91	52.04	5517.94	53.14	5517.88	53.42	5517.86								
53.89	5517.83	54.88	5517.74	55.47	5517.7	56.34	5517.62	57.77	5517.47								
59.26	5517.48	60.12	5517.49	60.72	5517.48	61.73	5517.47	62.45	5517.47								
63.5	5517.44	63.64	5517.45	64.77	5517.41	65.1	5517.4	65.65	5517.34								
66.56	5517.27	67.1	5517.22	68.02	5517.15	69.22	5517.03	69.42	5517.01								
69.48	5517.01	69.56	5517.02	70.94	5517.13	71.75	5517.15	72.39	5517.13								
73.48	5517.12	74.08	5517.12	74.95	5517.1	75.31	5517.1	76.4	5517.08								
76.77	5517.07	77.4	5517.08	78.23	5517.08	78.73	5517.1	79.69	5517.08								
80.67	5517.09	81.32	5517.09	82.61	5517.11	83.38	5517.11	84.07	5517.13								
85.23	5517.12	85.53	5517.12	85.71	5517.11	86.4	5517.1	86.99	5517.12								
88.03	5517.09	88.45	5517.1	89.15	5517.09	89.91	5517.07	90.36	5517.05								
91.37	5517.04	92.12	5517.1	92.68	5517.11	93.07	5517.11	94.29	5517.12								
95.01	5517.1	95.75	5517.02	96.99	5516.89	97.21	5516.87	97.34	5516.86								
97.85	5516.87	98.66	5516.82	99.66	5516.86	100.12	5516.88	100.9	5516.91								
101.58	5516.93	101.99	5516.94	103.04	5516.94	103.57	5516.95	104.5	5516.95								
104.82	5516.96	105.96	5516.95	106.64	5516.96	107.42	5516.96	108.74	5517.04								
108.88	5517.05	108.97	5517.05	109.3	5517.06	110.34	5517.06	111.29	5517.1								
111.8	5517.09	112.65	5516.98	113.26	5516.91	113.62	5516.84	114.72	5516.66								
115.03	5516.49	115.94	5516.3	116.18	5516.23	116.57	5516.08	117.64	5515.68								
118.27	5515.42	119.1	5515.16	120.49	5514.7	120.56	5514.68	120.75	5514.65								
122.02	5514.41	122.92	5514.37	123.48	5514.34	124.41	5514.35	125.25	5514.35								
126.39	5514.3	126.48	5514.36	127.57	5514.35	127.85	5514.36	128.32	5514.38								
129.31	5514.44	129.9	5514.48	130.77	5514.54	132.2	5514.64	133.69	5514.77								
134.55	5514.83	135.15	5514.82	136.16	5514.85	136.61	5514.85	136.88	5514.86								
137.93	5514.93	138.07	5514.83	139.2	5514.97	139.53	5514.99	140.08	5515.09								
140.99	5515.25	141.53	5515.39	142.45	5515.6	143.65	5515.78	143.86	5515.82								
143.91	5515.83	143.99	5515.84	145.37	5516	146.18	5516.09	146.83	5516.16								
147.91	5516.23	148.29	5516.27	148.51	5516.28	148.95	5516.3	149.38	5516.32								
149.74	5516.4	150.78	5516.41	151.1	5516.42	151.65	5516.45	152.56	5516.49								
153.1	5516.5	154.02	5516.51	155.22	5516.5	155.43	5516.5	155.57	5516.49								
156.94	5516.39	157.75	5516.36	158.4	5516.31	159.49	5516.28	159.86	5516.26								
160.08	5516.27	160.94	5516.33	161.32	5516.36	162.41	5516.43	162.78	5516.47								
163.41	5516.48	164.24	5516.5	164.73	5516.52	165.7	5516.55	166.67	5516.59								
167.06	5516.6	167.32	5516.59	168.62	5516.52	169.38	5516.49	170.07	5516.46								
171.24	5516.45	171.53	5516.44	171.71	5516.45	172.39	5516.45	172.99	5516.42								
174.04	5516.44	174.45	5516.45	175.16	5516.45	175.91	5516.44	176.36	5516.43								
177.37	5516.41	178.12	5516.41	178.69	5516.4	179.07	5516.4	180.29	5516.41								
181.01	5516.4	181.75	5516.42	182.99	5516.54	183.21	5516.56	183.34	5516.57								
183.85	5516.55	184.67	5516.58	185.66	5516.52	186.13	5516.52	186.91	5516.53								
187.59	5516.55	187.99	5516.56	189.05	5516.64	189.57	5516.66	190.32	5516.71								
190.51	5516.72	190.83	5516.73	191.97	5516.76	192.64	5516.74	193.43	5516.73								
194.74	5516.72	194.97	5516.72	195.3	5516.73	196.34	5516.74	197.29	5516.76								
197.8	5516.79	198.66	5516.81	199.26	5516.83	199.62	5516.85	200.72	5516.84								
201.02	5516.89	201.95	5516.9	202.18	5516.92	202.58	5516.96	203.64	5517.05								
204.27	5517.1	205.1	5517.15	206.5	5517.13	206.75	5517.13	208.02	5517.11								
208.92	5517.09	209.48	5517.1	210.41	5517.09	210.94	5517.11	211.25	5517.11								
212.4	5517.14	212.47	5517.15	213.58	5517.18	213.86	5517.2	214.33	5517.22								
215.32	5517.29	215.9	5517.32	216.78	5517.38	218.2	5517.45	218.23	5517.46								
219.7	5517.56	220.55	5517.6	221.16	5517.63	222.17	5517.67	222.61	5517.7								
222.88	5517.71	223.92	5517.76	224.07	5517.76	225.21	5517.81	225.53	5517.84								
226.08	5517.88	226.99	5517.93	227.53	5517.94	228.45	5517.94	229.65	5518.01								
229.86	5518.01	230	5518.02	231.37	5518.05	232.18	5518.07	232.83	5518.04								
233.92	5518.07	234.29	5518.07	234.51	5518.08	235.37	5518.1	235.75	5518.09								
236.84	5518.11	237.21	5518.13	237.84	5518.14	238.67	5518.14	239.16	5518.16								
240.13	5518.18	241.1	5518.24	241.49	5518.25	241.75	5518.27	243.05	5518.32								
243.81	5518.38	244.51	5518.42	245.67	5518.51	245.97	5518.53	246.14	5518.53								
246.83	5518.56	247.42	5518.56	248.47	5518.61	248.88	5518.61	249.59	5518.63								
249.76	5518.63	250.34	5518.65	250.8	5518.66	251.8	5518.73	252.66	5518.81								
253.14	5518.85	253.25	5518.86	253.45	5518.87	254.71	5518.92	255.48	5518.98								
256.17	5519.01	257.3	5519.07	257.62	5519.08	257.82	5519.09	258.6	5519.17								
259.08	5519.2	260.15	5519.31	260.53	5519.33	261.16	5519.39	261.99	5519.43								
262.49	5519.45	263.45	5519.45	264.55	5519.57	264.83	5519.58	265.02	5519.6								
266.36	5519.75	267.17	5519.83	267.81	5519.88	268.87	5519.92	269.27	5519.92								
269.51	5519.93	270.5	5519.96	270.73	5519.88	271.85	5519.96	272.18	5519.99								
272.73	5520.04	273.64	5520.11	274.19	5520.13	275.09	5520.18	276.44	5520.21								

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
0	.05 114.72	.035 149.74	.05
Bank Sta: Left	Right	Lengths: Left	Channel Right
114.72	149.74	193.42	199.08 203.18
		Coeff	Contr. Expan.
		.1	.3

[illegible]

245.02	5516.41	245.33	5516.39	245.78	5516.41	246.73	5516.46	247.36	5516.48
248.31	5516.54	248.43	5516.55		5516.6	249.4	5516.6	250	5516.6

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	115.38	.035
		135.85	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	115.38	135.85		92.4	84.72		.1	.3

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 6777

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5514.25	.04	5514.25	.07	5514.24	1.45	5514.19	2.79	5514.13
2.94	5514.13	4.28	5514.02	5.58	5513.89	5.81	5513.87	7.11	5513.75
8.37	5513.67	8.52	5513.66	8.68	5513.66	9.94	5513.61	11.16	5513.62
11.35	5513.61	11.55	5513.61	12.77	5513.48	13.95	5513.47	14.18	5513.44
15.59	5513.38	16.74	5513.35	17.28	5513.31	18.42	5513.24	19.53	5513.21
20.15	5513.17	21.25	5513.07	22.32	5513	23.02	5512.98	24.08	5512.93
25.11	5512.95	25.5	5512.95	25.89	5512.97	26.91	5513.06	27.9	5513.15
28.32	5513.16	28.76	5513.21	29.74	5513.22	30.69	5513.31	31.15	5513.32
31.63	5513.36	32.57	5513.22	33.48	5513.14	33.98	5513.03	34.5	5512.97
35.4	5512.8	36.27	5512.7	36.81	5512.57	37.36	5512.5	38.22	5512.36
39.06	5512.32	39.64	5512.26	40.23	5512.26	41.05	5512.25	41.85	5512.26
42.47	5512.24	43.1	5512.23	43.88	5512.19	44.64	5512.19	45.3	5512.17
45.97	5512.17	46.71	5512.15	47.43	5512.14	48.12	5512.14	48.84	5512.13
49.54	5512.13	50.22	5512.14	51.71	5512.16	52.37	5512.16	53.01	5512.2
53.78	5512.22	54.58	5512.21	55.2	5512.2	55.8	5512.23	56.61	5512.28
57.45	5512.29	58.03	5512.28	59.44	5512.23	60.31	5512.14	60.85	5512.07
61.38	5512.04	62.27	5512.03	63.18	5512.06	63.68	5512.11	64.17	5512.11
65.1	5512.17	66.05	5512.17	66.51	5512.2	66.96	5512.19	67.93	5512.22
68.92	5512.2	69.75	5512.2	70.75	5512.21	71.79	5512.24	73.58	5512.24
74.66	5512.22	75.33	5512.22	76.41	5512.26	77.53	5512.29	77.83	5512.3
78.12	5512.29	79.24	5512.26	80.39	5512.17	80.65	5512.17	80.91	5512.16
82.07	5512.1	83.26	5512.06	83.48	5512.06	83.7	5512.07	84.9	5512.16
86.13	5512.2	86.49	5512.2	87.73	5512.3	89	5512.23	89.14	5512.24
89.28	5512.23	90.56	5512.27	91.87	5512.24	92.07	5512.24	93.38	5512.32
94.74	5512.24	94.86	5512.24	96.21	5512.26	97.61	5512.16	97.65	5512.16
99.04	5512.12	99.05	5512.11	100.44	5512.06	100.48	5512.06	101.87	5512.12
103.23	5512.09	103.28	5512.09	103.34	5512.08	106.11	5512.08	106.21	5512.09
107.53	5512.18	108.81	5512.2	109.08	5512.22	110.36	5512.28	111.96	5512.28
113.19	5512.29	114.42	5512.23	114.78	5512.21	115.97	5512.13	116.02	5512.13
117.25	5512.02	117.61	5512	118.85	5512	120.08	5511.96	120.44	5511.96
121.67	5512.04	122.91	5512.04	123.09	5512.05	123.27	5512.04	125.74	5512.12
125.92	5512.14	126.1	5512.14	127.33	5512.18	128.57	5512.25	128.75	5512.27
128.93	5512.27	130.16	5512.19	131.39	5512.15	131.57	5512.15	131.75	5512.13
132.99	5512.05	134.22	5512.01	134.4	5512	134.58	5512	135.82	5512.07
137.05	5512.11	137.23	5512.12	137.41	5512.12	138.65	5512.06	139.88	5511.97
140.06	5511.96	140.24	5511.96	141.47	5511.92	142.71	5511.92	142.89	5511.91
143.07	5511.91	144.3	5511.99	145.72	5512.07	145.9	5512.06	147.13	5512.04
148.36	5511.98	148.54	5511.97	148.72	5511.97	149.96	5511.94	151.19	5511.95
151.55	5511.95	152.79	5511.91	154.02	5511.85	154.2	5511.84	154.38	5511.84
155.62	5511.79	156.85	5511.77	157.03	5511.77	157.21	5511.78	158.44	5511.84
159.68	5511.88	159.86	5511.89	160.04	5511.89	161.27	5511.91	162.51	5511.83
162.69	5511.82	162.87	5511.82	164.1	5511.75	165.34	5511.66	165.7	5511.64
166.93	5511.57	168.16	5511.45	168.34	5511.45	168.52	5511.44	169.76	5511.44
170.99	5511.39	171.17	5511.4	171.35	5511.38	172.59	5511.43	173.82	5511.35
174.18	5511.33	175.41	5511.33	176.65	5511.28	176.83	5511.28	177.01	5511.26
178.24	5511.23	179.48	5511.25	179.66	5511.25	179.84	5511.24	181.07	5511.22
182.31	5511.17	182.49	5511.17	182.67	5511.16	183.9	5511.11	185.13	5510.96
185.49	5510.94	186.73	5510.92	187.96	5510.8	188.14	5510.8	188.32	5510.79
189.56	5510.9	190.79	5510.88	190.97	5510.89	191.15	5510.89	192.39	5510.86
193.62	5510.79	193.98	5510.79	195.21	5510.8	196.45	5510.76	196.81	5510.76
198.04	5510.81	199.28	5510.84	199.46	5510.86	199.64	5510.85	200.87	5510.82
202.1	5510.73	202.46	5510.71	203.7	5510.72	204.93	5510.67	205.29	5510.67
206.53	5510.72	207.76	5510.73	207.94	5510.72	208.12	5510.72	209.36	5510.74
210.59	5510.79	210.95	5510.79	212.18	5510.72	213.42	5510.71	213.78	5510.69
215.01	5510.64	216.25	5510.63	216.61	5510.63	217.84	5510.64	219.08	5510.59
219.26	5510.59	219.44	5510.58	220.67	5510.55	221.9	5510.44	222.26	5510.42
223.5	5510.36	224.73	5510.31	224.91	5510.31	225.09	5510.3	226.33	5510.25
227.56	5510.05	227.74	5510.02	227.92	5509.96	229.15	5509.65	230.39	5509.33
230.57	5509.28	230.75	5509.24	231.15	5509.17	231.98	5509.01	233.22	5508.74
233.58	5508.66	234.81	5508.44	236.05	5508.15	236.23	5508.12	236.41	5508.11
237.64	5508.05	238.87	5508.03	239.05	5508.04	239.23	5508.04	240.47	5508.15
241.7	5508.17	241.88	5508.17	242.06	5508.18	243.3	5508.21	243.4	5508.21
244.53	5508.27	244.89	5508.27	246.13	5508.25	247.36	5508.28	247.54	5508.28
247.72	5508.29	248.95	5508.34	250.19	5508.4	250.55	5508.42	251.78	5508.51
253.02	5508.55	253.38	5508.57	254.61	5508.67	255.85	5508.75	256.03	5508.76
256.2	5508.78	257.44	5509.1	258.22	5509.28	258.67	5509.39	259.03	5509.47
260.27	5509.74	261.5	5509.95	261.68	5509.98	261.86	5510.02	263.1	5510.14
264.33	5510.35	264.69	5510.43	265.92	5510.5	267.16	5510.62	267.34	5510.63
267.52	5510.65	268.75	5510.8	269.99	5510.92	270.35	5510.94	271.58	5510.99
272.82	5510.97	273	5510.98	273.18	5510.98	274.41	5510.95	275.64	5510.96
275.82	5510.96	276	5510.98	277.24	5511.18	278.47	5511.28	278.65	5511.29
278.83	5511.29	280.07	5511.28	281.3	5511.29	281.48	5511.3	281.66	5511.3

282.9	5511.32	284.13	5511.29	284.49	5511.29	285.72	5511.28	286.96	5511.31
287.14	5511.31	287.32	5511.32	288.55	5511.4	289.79	5511.41	289.97	5511.42
290.15	5511.41	291.38	5511.41	292.61	5511.37	292.97	5511.37	295.44	5511.43
295.62	5511.44	295.8	5511.44	297.04	5511.51	298.27	5511.54	298.63	5511.56
299.87	5511.64	301.1	5511.75	301.28	5511.77	301.46	5511.78	302.69	5511.87
304.29	5511.87	305.52	5511.91	306.76	5511.91	307.12	5511.93	308.35	5512
309.59	5512.01	309.77	5512.02	309.95	5512.02	312.41	5512.2	312.59	5512.22
312.77	5512.22	314.01	5512.39	315.24	5512.48	315.42	5512.51	315.6	5512.51
316.84	5512.61	318.07	5512.7	318.25	5512.72	318.43	5512.73	319.66	5512.81
320.9	5512.89	321.08	5512.91	321.26	5512.92	322.49	5513.05	323.73	5513.14
323.91	5513.15	324.09	5513.17	325.32	5513.31	326.56	5513.4	326.74	5513.42
326.92	5513.43	328.15	5513.56	329.38	5513.62	329.56	5513.64	329.74	5513.64
330.98	5513.74	332.21	5513.78	332.39	5513.8	332.57	5513.81	333.81	5513.94
335.04	5514.01	335.22	5514.04	335.4	5514.05	336.64	5514.23	337.87	5514.34
338.05	5514.36	338.23	5514.37	339.46	5514.45	340.7	5514.54	340.88	5514.56
341.06	5514.56	341.74	5514.62	342.08	5514.64	342.39	5514.66	343.3	5514.75
344.05	5514.78	344.78	5514.85	345.35	5514.87	345.71	5514.89	347.22	5514.96
347.37	5514.97	347.41	5514.98	347.47	5514.98	349.04	5515.13	349.47	5515.17
350.16	5515.23	350.7	5515.29	351.52	5515.36	352.36	5515.44	352.86	5515.46
353.58	5515.53	354.02	5515.58	355.55	5515.73	355.68	5515.75	355.9	5515.76
357.34	5515.84	357.69	5515.86	358.24	5515.91	359.01	5515.95	359.74	5516.03
360.67	5516.06	360.94	5516.12	361.8	5516.16	362.33	5516.16	363.63	5516.19
363.99	5516.19	364.58	5516.21	365.65	5516.24	365.91	5516.27	366.32	5516.3
367.31	5516.36	367.96	5516.4	368.98	5516.55	369.01	5516.52	370.02	5516.66
370.64	5516.7	371.71	5516.81	372.07	5516.83	372.3	5516.87	373.25	5516.94
373.96	5516.99	374.13	5517	374.4	5517.02	375.62	5517.08	376.03	5517.08

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	226.33	.035	264.69	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	226.33	264.69		20	20		.3	.5

CROSS SECTION

RIVER: Rainbow Trib
 REACH: North-DS-0 RS: 6663

INPUT

Description:

Station Elevation Data		num=		412					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5512.07	.21	5512.07	.7	5512.04	1.59	5511.97	2.24	5511.94
3.16	5511.87	3.32	5511.87	4.27	5511.79	5.04	5511.76	5.63	5511.69
6.3	5511.66	6.77	5511.62	8.1	5511.51	8.33	5511.49	8.49	5511.48
9.41	5511.41	10.22	5511.36	10.36	5511.35	10.57	5511.34	11.95	5511.34
12.39	5511.33	13.03	5511.32	13.67	5511.34	14.42	5511.33	15.4	5511.32
15.5	5511.32	16.46	5511.31	17.12	5511.31	17.97	5511.32	18.85	5511.32
20.44	5511.35	20.9	5511.35	22.3	5511.33	22.55	5511.33	22.9	5511.31
24.03	5511.24	24.58	5511.21	25.37	5511.19	25.75	5511.14	26.61	5511.13
27.48	5511.13	27.84	5511.16	29.2	5511.16	30.31	5511.15	30.67	5511.15
30.93	5511.13	32.38	5511.02	32.65	5511	32.7	5510.99	34.38	5510.88
34.73	5510.87	35.24	5510.87	36.11	5510.82	36.77	5510.82	37.71	5510.79
37.83	5510.75	38.8	5510.73	39.56	5510.69	40.18	5510.63	40.83	5510.59
41.28	5510.61	42.64	5510.54	42.86	5510.55	43.01	5510.55	43.86	5510.59
44.74	5510.63	44.89	5510.63	45.11	5510.64	46.46	5510.65	46.92	5510.66
47.58	5510.62	48.19	5510.59	48.95	5510.55	49.91	5510.5	50.04	5510.51
50.98	5510.46	51.64	5510.41	52.51	5510.44	53.01	5510.41	55.04	5510.41
55.35	5510.4	56.82	5510.34	57.08	5510.32	57.45	5510.31	58.54	5510.27
59.11	5510.26	59.91	5510.26	60.27	5510.24	61.14	5510.25	61.99	5510.21
62.38	5510.22	63.17	5510.18	63.72	5510.17	64.85	5510.06	65.2	5510.05
65.45	5510.04	66.83	5509.97	67.14	5509.95	67.34	5509.95	68.89	5510.03
69.3	5510.03	70	5510.02	70.53	5510.08	71.37	5510.06	72.17	5510
72.81	5509.96	73.44	5509.91	73.8	5509.88	75.2	5509.87	75.61	5509.87
77.08	5509.89	77.57	5509.9	78.42	5509.91	78.72	5509.91	79.64	5509.92
80.35	5509.92	81.23	5509.95	81.99	5509.95	83.06	5509.94	83.63	5509.92
83.78	5509.92	84.03	5509.91	85.27	5509.84	85.85	5509.83	86.84	5509.82
86.9	5509.83	87.91	5509.82	88.54	5509.79	89.65	5509.69	89.98	5509.68
90.18	5509.66	90.92	5509.64	91.81	5509.61	92.05	5509.61	92.45	5509.62
93.45	5509.59	94.12	5509.61	95.09	5509.64	95.26	5509.59	96.19	5509.61
96.73	5509.59	98.07	5509.52	98.25	5509.51	98.36	5509.51	98.78	5509.48
100	5509.39	100.32	5509.35	100.87	5509.32	101.64	5509.25	102.39	5509.21
103.28	5509.22	103.68	5509.26	104.46	5509.28	104.91	5509.25	106.49	5509.17
106.53	5509.17	106.64	5509.16	108.19	5509	108.59	5508.95	109.29	5508.93
109.82	5508.9	110.66	5508.87	111.46	5508.84	112.1	5508.83	112.73	5508.81
113.1	5508.78	114.5	5508.61	114.74	5508.58	114.91	5508.58	116.37	5508.59
116.87	5508.58	117.71	5508.63	118.01	5508.62	118.94	5508.67	119.65	5508.69
120.52	5508.73	121	5508.74	121.28	5508.75	122.35	5508.71	122.92	5508.69
123.07	5508.67	123.33	5508.66	124.56	5508.51	125.14	5508.47	126.13	5508.46
126.2	5508.44	127.21	5508.43	127.83	5508.41	128.94	5508.39	129.28	5508.38
129.47	5508.37	130.21	5508.34	131.11	5508.3	131.34	5508.3	131.75	5508.28
132.75	5508.24	133.41	5508.22	134.38	5508.21	134.55	5508.19	135.48	5508.18
136.02	5508.17	137.36	5508.13	137.55	5508.13	137.66	5508.12	138.07	5508.12
139.29	5508.1	139.62	5508.1	140.17	5508.09	140.93	5508.06	141.68	5508.04
141.74	5508.04	142.69	5507.89	142.92	5507.87	143.17	5507.83	143.81	5507.73
144.33	5507.61	145.73	5507.17	145.88	5507.13	145.96	5507.1	146.29	5506.98
147.6	5506.51	147.95	5506.39	148.54	5506.25	149.24	5506.03	150.01	5505.86
150.88	5505.83	151.34	5505.89	152.08	5505.87	152.51	5505.89	153.5	5505.92
154.15	5505.93	155.79	5505.97	156.22	5505.97	156.96	5506.08	157.42	5506.1
158.29	5506.24	159.06	5506.4	159.76	5506.71	160.35	5506.84	160.7	5506.94

162.01	5507.41	162.34	5507.52	162.42	5507.56	162.57	5507.6	163.32	5507.83
163.97	5508.03	164.49	5508.18	165.38	5508.35	165.61	5508.45	166.56	5508.62
167.25	5508.7	168.18	5508.68	168.63	5508.73	168.89	5508.72	169.87	5508.65
170.52	5508.6	170.69	5508.58	170.99	5508.58	172.16	5508.51	172.76	5508.5
173.8	5508.52	174.83	5508.6	175.43	5508.65	176.6	5508.77	176.9	5508.8
177.07	5508.82	177.73	5508.86	178.71	5508.92	178.97	5508.93	179.41	5508.96
180.35	5509.03	181.04	5509.08	181.98	5509.15	182.22	5509.17	183.1	5509.23
183.62	5509.26	185.02	5509.35	185.17	5509.36	185.26	5509.37	185.58	5509.41
186.89	5509.57	187.24	5509.59	187.83	5509.6	188.53	5509.67	190.17	5509.67
190.64	5509.71	191.38	5509.72	191.81	5509.74	193.44	5509.8	195.08	5509.89
195.51	5509.9	196.25	5509.98	196.72	5509.95	197.58	5510.05	198.36	5510.07
199.06	5510.08	199.65	5510.09	199.99	5510.11	201.3	5510.07	201.63	5510.06
201.72	5510.05	201.86	5510.06	203.27	5510.15	203.78	5510.15	204.67	5510.24
204.9	5510.22	205.85	5510.33	206.54	5510.38	207.48	5510.53	207.92	5510.57
208.18	5510.58	209.16	5510.68	209.82	5510.75	209.99	5510.78	210.28	5510.79
211.45	5510.85	212.06	5510.89	213.09	5510.93	214.12	5510.95	214.73	5510.98
215.9	5511.03	216.19	5511.05	216.36	5511.07	217.02	5511.13	218	5511.23
218.26	5511.25	218.7	5511.28	219.64	5511.39	220.33	5511.43	221.28	5511.49
221.51	5511.51	222.4	5511.57	222.91	5511.61	224.32	5511.68	224.47	5511.69
224.55	5511.69	224.88	5511.72	226.19	5511.84	226.53	5511.87	227.12	5511.88
227.83	5511.9	228.6	5511.92	229.46	5511.94	229.93	5511.95	230.67	5511.97
231.1	5511.98	232.74	5512.02	234.37	5512.07	234.81	5512.08	235.54	5512.17
236.01	5512.22	236.87	5512.32	237.65	5512.35	238.35	5512.43	238.94	5512.46
239.29	5512.48	240.6	5512.5	240.92	5512.51	241.16	5512.51	242.56	5512.58
243.08	5512.57	243.96	5512.6	244.2	5512.64	245.15	5512.66	245.84	5512.69
246.77	5512.79	247.21	5512.82	247.47	5512.82	248.45	5512.88	249.11	5512.91
249.28	5512.93	249.58	5512.95	250.75	5512.99	251.35	5513.03	252.38	5513.11
253.42	5513.15	254.02	5513.19	255.19	5513.25	255.49	5513.27	255.66	5513.28
256.31	5513.32	257.3	5513.38	257.55	5513.4	258	5513.41	258.93	5513.47
259.62	5513.48	260.57	5513.5	260.81	5513.52	261.69	5513.54	262.21	5513.57
263.61	5513.7	263.76	5513.71	263.84	5513.72	264.17	5513.75	265.48	5513.9
265.83	5513.93	266.42	5513.95	267.12	5513.99	267.9	5514.03	268.76	5514.01
269.23	5514.04	269.96	5514.02	270.39	5514.07	272.03	5514.16	273.67	5514.28
274.1	5514.28	274.84	5514.33	275.31	5514.32	276.17	5514.39	276.94	5514.38
277.65	5514.46	278.5	5514.46						

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	141.74	.035	167.25	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	141.74	167.25		178.67	170.89	160.91	.1	.3

CROSS SECTION

RIVER: Rainbow Trib
 REACH: North-DS-0 RS: 6492

INPUT									
Description:									
Station		Elevation		Data		num=		491	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5508.24	.14	5508.24	1.19	5508.11	1.63	5508.09	2.02	5508.05
3.34	5508	3.64	5507.98	3.9	5507.94	5.49	5507.87	5.64	5507.85
5.78	5507.85	7.64	5507.74	7.8	5507.73	9.54	5507.63	9.78	5507.61
11.41	5507.47	11.66	5507.45	11.93	5507.45	13.29	5507.4	13.66	5507.4
14.08	5507.39	15.17	5507.42	15.66	5507.41	16.23	5507.38	17.05	5507.36
17.67	5507.34	18.37	5507.3	18.93	5507.26	19.67	5507.21	20.52	5507.1
20.81	5507.1	21.68	5506.99	22.67	5506.86	23.68	5506.77	24.57	5506.63
24.82	5506.64	25.69	5506.5	26.45	5506.41	26.96	5506.43	27.69	5506.36
28.33	5506.34	29.11	5506.32	29.7	5506.3	30.21	5506.29	31.26	5506.2
31.7	5506.19	32.09	5506.17	33.41	5506.06	33.7	5506.05	33.97	5506.03
35.55	5505.98	35.71	5505.97	35.84	5505.95	37.7	5505.8	37.88	5505.78
39.6	5505.57	39.85	5505.55	41.48	5505.48	41.72	5505.46	42	5505.44
43.36	5505.36	43.73	5505.33	44.14	5505.29	45.24	5505.13	45.73	5505.08
46.29	5505.01	47.12	5504.97	47.74	5504.9	48.44	5504.82	49	5504.83
49.74	5504.74	50.59	5504.67	50.88	5504.64	51.74	5504.57	52.73	5504.55
53.75	5504.52	54.64	5504.59	54.88	5504.57	55.75	5504.64	56.52	5504.69
57.03	5504.69	57.76	5504.74	58.4	5504.7	59.18	5504.63	59.76	5504.59
60.27	5504.54	61.32	5504.47	61.77	5504.43	62.15	5504.38	63.47	5504.29
63.77	5504.26	64.03	5504.23	65.62	5504.08	65.78	5504.06	65.91	5504.06
67.77	5503.98	67.97	5503.98	69.67	5504.03	69.78	5504.02	69.91	5504.02
71.55	5503.91	71.79	5503.89	72.06	5503.86	73.43	5503.71	73.79	5503.67
74.21	5503.66	75.31	5503.63	75.8	5503.62	76.36	5503.62	77.19	5503.57
77.8	5503.58	78.5	5503.58	79.07	5503.54	79.81	5503.55	80.65	5503.55
80.95	5503.57	81.81	5503.58	83.82	5503.58	84.7	5503.56	84.95	5503.57
85.82	5503.54	86.58	5503.51	87.09	5503.45	87.82	5503.42	88.46	5503.41
89.24	5503.34	89.83	5503.32	91.39	5503.32	91.83	5503.31	92.22	5503.31
93.54	5503.29	94.1	5503.29	95.68	5503.24	95.84	5503.24	95.98	5503.23
97.83	5503.12	98.05	5503.12	99.74	5503.08	99.85	5503.08	99.98	5503.09
101.62	5503.11	101.86	5503.12	102.13	5503.12	103.5	5503.14	103.86	5503.14
104.27	5503.15	105.38	5503.21	105.86	5503.22	106.42	5503.23	107.26	5503.23
107.87	5503.25	108.57	5503.28	109.13	5503.23	109.87	5503.26	110.72	5503.25
111.01	5503.23	111.98	5503.23	112.57	5503.21	113.2	5503.21	113.99	5503.18
114.74	5503.19	115.4	5503.16	116.1	5503.17	116.82	5503.14	117.5	5503.16
118.23	5503.17	119	5503.23	119.65	5503.26	120.26	5503.31	121.06	5503.34
121.91	5503.38	122.48	5503.41	123.02	5503.44	123.89	5503.43	124.81	5503.42
125.31	5503.4	125.78	5503.34	126.72	5503.31	127.71	5503.28	128.13	5503.27
128.53	5503.25	129.55	5503.23	130.62	5503.23	130.96	5503.25	131.29	5503.25
132.38	5503.31	133.52	5503.34	134.05	5503.38	135.21	5503.46	136.81	5503.46
138.04	5503.4	139.33	5503.34	139.45	5503.33	139.57	5503.33	140.87	5503.32

142.23	5503.37	142.28	5503.37	143.7	5503.5	144.12	5503.47	145.09	5503.52
145.11	5503.53	146.53	5503.57	147.84	5503.53	147.94	5503.52	148.04	5503.52
149.35	5503.57	150.6	5503.6	150.77	5503.61	150.94	5503.63	152.18	5503.86
153.36	5503.95	153.85	5503.99	155.01	5504.04	156.12	5504.07	156.75	5504.05
157.84	5504.02	158.88	5503.99	159.26	5503.96	159.66	5503.93	160.67	5503.82
161.64	5503.78	162.09	5503.76	162.56	5503.77	163.5	5503.8	164.4	5503.83
164.92	5503.84	165.46	5503.86	166.33	5503.9	167.16	5503.95	167.75	5504
168.37	5504.05	169.16	5504.09	169.91	5504.1	170.58	5504.12	171.27	5504.14
171.99	5504.15	172.67	5504.17	173.4	5504.21	174.18	5504.32	174.82	5504.39
175.43	5504.44	176.23	5504.48	177.08	5504.51	177.65	5504.52	178.19	5504.51
179.06	5504.47	179.98	5504.42	180.48	5504.4	180.95	5504.4	181.89	5504.42
182.89	5504.48	183.31	5504.53	183.71	5504.59	184.72	5504.74	185.79	5504.79
186.14	5504.82	186.47	5504.83	187.55	5504.86	188.69	5504.88	188.97	5504.89
189.22	5504.9	190.38	5504.9	191.6	5504.94	191.98	5504.94	193.21	5504.92
194.5	5504.86	194.74	5504.86	196.04	5504.93	197.25	5505.08	197.41	5505.1
197.45	5505.1	198.87	5505.31	199.29	5505.39	200.26	5505.55	200.28	5505.55
201.7	5505.67	203.02	5505.84	203.11	5505.86	203.21	5505.86	204.53	5505.95
205.78	5505.79	205.94	5505.78	206.12	5505.73	207.36	5505.41	208.53	5504.94
208.77	5504.86	209.02	5504.77	210.19	5504.37	211.29	5504.07	211.6	5503.98
211.92	5503.94	213.02	5503.81	214.05	5503.7	214.43	5503.66	214.83	5503.62
215.84	5503.5	216.81	5503.44	217.26	5503.41	217.73	5503.42	218.58	5503.41
218.67	5503.41	219.57	5503.42	220.09	5503.42	220.64	5503.45	221.5	5503.46
222.33	5503.53	222.92	5503.52	223.54	5503.59	224.33	5503.68	225.09	5503.85
225.75	5503.98	226.44	5504.16	227.16	5504.33	227.84	5504.48	228.58	5504.64
229.35	5504.8	229.99	5504.91	230.6	5505	231.41	5505.11	232.25	5505.27
232.82	5505.34	233.36	5505.38	234.24	5505.42	235.16	5505.41	235.65	5505.39
236.12	5505.37	237.07	5505.29	238.06	5505.22	238.48	5505.21	238.88	5505.19
239.89	5505.16	240.96	5505.04	241.31	5505.02	241.64	5505	242.72	5504.97
243.87	5504.88	244.14	5504.87	244.4	5504.87	245.55	5504.94	246.77	5504.91
247.16	5504.91	248.38	5504.89	249.67	5504.93	249.8	5504.92	249.91	5504.92
251.21	5504.94	252.58	5504.93	252.63	5504.93	254.04	5504.9	254.46	5504.93
255.46	5504.93	256.87	5504.91	258.19	5504.89	258.39	5504.89	259.7	5504.8
260.95	5504.78	261.11	5504.77	261.29	5504.78	262.53	5504.8	263.71	5504.92
263.94	5504.94	264.19	5504.95	265.36	5505.03	266.47	5505.11	266.77	5505.14
267.1	5505.17	268.19	5505.31	269.22	5505.43	269.6	5505.46	270	5505.5
271.02	5505.6	271.98	5505.77	272.43	5505.86	272.9	5505.98	273.85	5506.15
275.26	5506.34	275.81	5506.37	276.68	5506.39	278.09	5506.39	278.71	5506.41
279.51	5506.45	280.26	5506.49	280.92	5506.51	281.62	5506.53	282.33	5506.58
283.02	5506.64	283.75	5506.68	284.52	5506.75	285.16	5506.8	285.78	5506.86
286.58	5506.94	287.42	5507.04	287.99	5507.08	288.53	5507.15	289.41	5507.22
290.33	5507.32	290.82	5507.36	291.29	5507.42	292.24	5507.46	293.23	5507.47
293.65	5507.48	294.05	5507.5	295.07	5507.56	296.14	5507.55	296.48	5507.56
296.81	5507.58	297.9	5507.72	299.04	5507.88	299.31	5507.93	299.57	5507.97
300.73	5508.18	301.94	5508.34	302.33	5508.36	303.55	5508.44	304.85	5508.48
305.09	5508.48	306.38	5508.54	307.75	5508.68	307.8	5508.69	309.21	5509.02
309.63	5509.01	310.6	5509.18	310.63	5509.18	312.04	5509.43	313.36	5509.6
313.46	5509.61	313.56	5509.61	314.87	5509.6	316.12	5509.66	316.29	5509.66
316.46	5509.68	317.7	5509.73	318.88	5509.84	319.37	5509.88	320.53	5509.9
321.64	5509.97	321.95	5509.98	322.27	5510.02	323.36	5510.12	324.4	5510.26
324.78	5510.29	325.17	5510.32	326.19	5510.39	327.16	5510.46	327.6	5510.5
328.08	5510.54	329.02	5510.63	329.91	5510.7	330.43	5510.75	330.98	5510.74
331.85	5510.78	332.67	5510.76	333.26	5510.8	333.89	5510.81	334.68	5510.87
335.43	5510.93	336.09	5510.98	336.79	5511.04	337.51	5511.16	338.19	5511.26
338.92	5511.37	339.69	5511.4	340.34	5511.43	340.95	5511.43	341.75	5511.47
342.6	5511.49	343.17	5511.52	343.71	5511.56	344.58	5511.69	345.5	5511.78
346	5511.84	346.47	5511.89	347.41	5511.96	348.4	5511.97	348.82	5511.98
349.22	5511.98	350.24	5511.97	351.65	5511.97	351.98	5511.98	353.07	5512.02
354.21	5512.07	354.48	5512.08	354.74	5512.08	355.9	5512.1	357.12	5512.14
357.31	5512.14	357.5	5512.15	358.73	5512.16	360.02	5512.18	360.14	5512.18
360.27	5512.19								

Manning's n Values		num= 3		
Sta	n Val	Sta	n Val	
0	.05	204.53	.035	234.24 .05
Bank Sta: Left	Right	Lengths: Left	Channel	Right
204.53	234.24	184.01	190.86	197.92
Ineffective Flow	num= 2			
Sta L	Sta R	Elev	Permanent	
0	204.53	5505.95	F	
234.24	360.27	5505.42	F	

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 6301

INPUT

Description:		num= 490		
Station	Elevation	Data		
Sta	Elev	Sta	Elev	Sta Elev
0	5503.25	1.23	5503.25	2.25 5503.24
5.18	5503.26	6.58	5503.16	6.65 5503.17
8.69	5503.05	9.58	5503.02	10.09 5503.01
12.39	5502.95	13.98	5502.86	14.69 5502.86
17.28	5502.87	18.38	5502.89	19.29 5502.93
21.59	5502.79	22.63	5502.72	22.78 5502.7
25.71	5502.57	26.2	5502.56	27.18 5502.51
28.64	5502.45	30.8	5502.36	32.93 5502.28
35.41	5502.31	36.97	5502.34	37.44 5502.36
38.91	5502.3	40.01	5502.25	40.37 5502.22
				41.01 5502.21
				41.84 5502.18

42.31	5502.19	43.31	5502.18	44.04	5502.23	44.77	5502.24	45.05	5502.23
46.24	5502.2	46.92	5502.16	47.7	5502.12	49.22	5502	49.39	5501.99
50.64	5501.87	51.52	5501.78	52.1	5501.73	53.13	5501.66	53.57	5501.64
54.74	5501.63	56.12	5501.63	57.17	5501.65	57.97	5501.67	58.43	5501.66
59.43	5501.67	60.73	5501.69	62.37	5501.73	63.03	5501.78	63.83	5501.79
65.25	5501.83	65.44	5501.82	66.77	5501.72	67.63	5501.65	68.23	5501.61
69.7	5501.58	69.93	5501.59	70.8	5501.61	71.17	5501.61	72.63	5501.64
73.33	5501.61	74.1	5501.59	74.54	5501.57	75.56	5501.54	76.15	5501.5
77.03	5501.47	77.36	5501.47	78.5	5501.45	79.14	5501.43	79.96	5501.45
81.4	5501.39	83.75	5501.39	84.36	5501.44	85.44	5501.54	85.83	5501.59
86.05	5501.6	86.85	5501.61	87.3	5501.62	88.35	5501.63	88.76	5501.62
89.48	5501.64	90.23	5501.64	90.65	5501.63	91.69	5501.59	92.2	5501.62
92.95	5501.6	93.52	5501.58	94.63	5501.53	95.26	5501.49	96.09	5501.39
97.55	5501.26	99.03	5501.29	99.86	5501.27	100.49	5501.27	101.6	5501.32
101.96	5501.33	102.9	5501.37	103.43	5501.38	104.46	5501.43	104.89	5501.41
105.64	5501.39	106.36	5501.33	106.77	5501.34	107.82	5501.29	108.25	5501.33
109.07	5501.32	109.68	5501.35	110.76	5501.38	111.37	5501.37	112.22	5501.33
113.6	5501.26	113.67	5501.26	115.16	5501.12	115.97	5501.1	116.62	5501.06
117.76	5501.06	118.09	5501.05	118.96	5501.05	119.56	5501.08	120.58	5501.07
121.02	5501.05	121.8	5500.99	122.49	5500.91	122.88	5500.87	123.95	5500.7
124.31	5500.71	125.18	5500.59	125.42	5500.57	125.84	5500.56	126.89	5500.52
128.35	5500.5	129.66	5500.45	129.82	5500.44	131.29	5500.41	132.09	5500.37
132.75	5500.37	133.92	5500.32	135.01	5500.3	135.68	5500.34	136.69	5500.3
137.15	5500.29	138.62	5500.29	138.99	5500.3	140.08	5500.35	140.36	5500.39
141.29	5500.44	141.55	5500.45	142	5500.45	143.02	5500.46	143.6	5500.48
144.48	5500.52	145.71	5500.61	146.04	5500.64	147.42	5500.75	148.2	5500.8
148.88	5500.79	150.08	5500.78	151.06	5500.76	151.81	5500.72	152.8	5500.72
153.28	5500.7	154.75	5500.58	155.11	5500.53	156.21	5500.47	156.41	5500.52
157.41	5500.49	158.16	5500.5	159.15	5500.54	159.71	5500.54	160.61	5500.52
161.77	5500.51	162.2	5500.51	163.55	5500.5	164.31	5500.51	165.01	5500.51
166.24	5500.53	166.62	5500.53	167.12	5500.51	167.94	5500.47	168.92	5500.43
169.41	5500.42	170.28	5500.43	171.22	5500.42	173.52	5500.4	174.32	5500.41
175.28	5500.4	175.82	5500.41	176.74	5500.47	177.82	5500.55	178.13	5500.58
179.68	5500.5	180.43	5500.45	181.14	5500.37	182.4	5500.28	182.61	5500.27
183.17	5500.27	184.07	5500.31	185.03	5500.3	185.54	5500.31	187.01	5500.31
187.33	5500.3	188.47	5500.25	189.62	5500.23	189.97	5500.21	191.13	5500.13
191.96	5500.09	193.2	5500.09	193.8	5500.08	194.81	5500.1	194.9	5500.11
195.88	5500.13	196.42	5500.15	197.97	5500.15	198.27	5500.16	199.65	5500.18
200.05	5500.18	200.79	5500.24	201.26	5500.23	202.13	5500.3	202.87	5500.33
204.22	5500.38	205.4	5500.39	206.1	5500.39	206.3	5500.4	206.67	5500.44
207.71	5500.54	208.39	5500.59	209.32	5500.7	209.62	5500.67	210.47	5500.75
210.94	5500.78	212.55	5500.85	214.16	5500.94	214.64	5500.95	215.5	5501
215.77	5501.03	217.39	5501.13	219	5501.22	220.61	5501.27	220.89	5501.29
221.39	5501.3	222.97	5501.34	224.33	5501.37	225.05	5501.39	225.45	5501.36
226.8	5501.23	227.14	5501.2	227.27	5501.16	228.67	5500.77	229.22	5500.63
230.22	5500.42	230.29	5500.39	231.3	5500.17	231.9	5500.12	233.16	5499.96
233.39	5499.94	233.94	5499.93	235.12	5499.94	235.47	5499.94	237.55	5500.04
238.35	5500.05	239.05	5499.99	239.64	5499.98	239.96	5500	241.58	5500.06
241.72	5500.07	243.19	5500.4	243.81	5500.55	244.8	5500.76	244.93	5500.81
245.89	5501.01	246.41	5501.08	247.88	5501.35	248.21	5501.39	250.06	5501.57
250.82	5501.51	251.25	5501.55	252.14	5501.46	252.86	5501.48	253.76	5501.58
254.22	5501.6	255.34	5501.73	256.09	5501.8	256.7	5501.87	257.7	5501.96
258.39	5502.03	259.31	5502.07	259.65	5502.07	260.47	5502.11	260.93	5502.08
262.56	5501.87	264.15	5501.61	264.64	5501.51	265.53	5501.37	265.76	5501.27
267.38	5501.05	268.48	5500.96	268.81	5500.92	268.99	5500.91	270.6	5500.88
270.89	5500.89	271.42	5500.88	272.21	5500.83	272.97	5500.82	273.83	5500.79
274.36	5500.75	275.06	5500.72	275.44	5500.71	276.75	5500.65	277.31	5500.64
278.67	5500.69	279.23	5500.67	280.25	5500.58	280.28	5500.61	281.31	5500.51
281.89	5500.52	283.5	5500.57	285.12	5500.78	285.48	5500.82	286.13	5500.79
286.73	5500.78	287.56	5500.74	288.34	5500.66	289.08	5500.6	289.64	5500.55
289.95	5500.54	291.02	5500.49	291.57	5500.46	292.02	5500.47	293.18	5500.58
293.81	5500.61	294.79	5500.63	294.96	5500.58	295.89	5500.58	296.4	5500.56
297.91	5500.42	297.99	5500.41	299.49	5500.41	300.26	5500.42	300.98	5500.45
302.42	5500.57	302.58	5500.58	303.96	5500.8	304.74	5500.85	305.45	5500.94
306.86	5500.97	307.1	5500.97	308.43	5501.02	309.22	5501	309.92	5500.99
311.29	5500.96	311.63	5500.96	312.89	5500.98	313.7	5500.98	314.38	5501
316.16	5501.13	317.36	5501.23	318.18	5501.27	318.85	5501.26	320.17	5501.25
321.83	5501.18	323.31	5501.16	324.6	5501.15	325.21	5501.14	326.29	5501.08
327.14	5501.06	327.78	5501.05	329.04	5501.01	329.27	5501.02	329.39	5501.01
329.74	5501.02	330.76	5501.07	331.63	5501.09	332.25	5501.12	333.74	5501.18
334.26	5501.19	335.22	5501.2	336.11	5501.2	336.71	5501.22	338.2	5501.26
338.79	5501.3	339.69	5501.42	340.59	5501.47	341.18	5501.51	342.35	5501.57
342.83	5501.6	343.32	5501.6	344.16	5501.63	345.65	5501.65	346.79	5501.66
347.13	5501.68	347.31	5501.68	347.84	5501.71	348.62	5501.77	349.55	5501.79
350.11	5501.83	351.22	5501.97	351.79	5502.06	352.37	5502.09	353.09	5502.25
354.03	5502.25	354.58	5502.28	356.07	5502.32	356.27	5502.32	356.9	5502.35
357.56	5502.35	358.51	5502.42	359.04	5502.44	360.1	5502.52	360.53	5502.56
360.75	5502.6	362.02	5502.69	362.99	5502.77	363.51	5502.84	364.53	5502.82
365	5502.83	365.95	5502.91	366.49	5503.04	367.48	5503.09	367.98	5503.16
368.97	5503.25	369.46	5503.31	370.48	5503.4	370.95	5503.48	371.96	5503.56
372.44	5503.61	373.4	5503.69	374.2	5503.75	375.01	5503.82	375.42	5503.88
376.44	5503.97	376.91	5504.02	377.84	5504.09	378.4	5504.15	379.53	5504.22
379.89	5504.22	380.92	5504.28	381.37	5504.29	382.28	5504.3	382.86	5504.29
384.06	5504.34	384.35	5504.3	385.4	5504.36	385.84	5504.39	386.71	5504.46
387.33	5504.53	387.64	5504.55	388.59	5504.58	388.82	5504.68	389.88	5504.68
390.31	5504.73	391.15	5504.81	391.8	5504.89	393.11	5505.02	393.28	5505.02
394.36	5505.14	394.77	5505.18	395.59	5505.27	396.26	5505.36	396.6	5505.43
397.64	5505.61	397.75	5505.67	398.84	5505.84	399.24	5505.92	400.04	5506.04

Manning's	n	Values	num=	3
Sta	n	Val	Sta	n
0	.05	225.05	.035	248.21
				.05

CROSS SECTION

INPUT

Station Elevation Data num= 490

369.05	5497.4	370.74	5497.44	371.55	5497.45	372.24	5497.52	373.74	5497.6
375.24	5497.73	375.98	5497.74	376.74	5497.77	378.04	5497.8	379.75	5497.78
380.41	5497.79	381.25	5497.75	382.27	5497.75	382.75	5497.73	384.84	5497.83
385.75	5497.88	386.49	5497.89	387.25	5497.93	388.75	5497.94	389.27	5497.92
390.25	5497.95	390.72	5497.98	391.48	5498.01	391.75	5498.01	392.32	5498.06
393.25	5498.09	393.7	5498.14	394.75	5498.15	394.94	5498.18	396.25	5498.2
396.98	5498.15	397.76	5498.12	399.17	5498.02	399.26	5498.06	400.34	5497.96
400.76	5497.96	401.63	5497.94	402.26	5497.95	402.56	5497.93	403.39	5497.91
403.76	5497.87	404.77	5497.85	406.99	5497.91	407.62	5497.95	408.26	5498.01
409.2	5498.07	410.94	5498.14	411.84	5498.2	412.76	5498.23	413.63	5498.32
414.26	5498.37	415.6	5498.49	416.07	5498.52	417.27	5498.53	420.25	5498.61
421.77	5498.78	422.49	5498.79	423.27	5498.86	424.91	5498.94	426.92	5499
429.13	5498.89	429.56	5498.83	431.35	5498.53	432.27	5498.41	432.97	5498.24
433.56	5498.15	434.22	5498.11	435.27	5498.15	435.78	5498.21	436.78	5498.35
437.19	5498.47	438.28	5498.64	438.87	5498.76	439.78	5498.93	440.21	5498.97
441.28	5499	441.42	5498.94	442.42	5498.94	442.78	5498.92	444.28	5498.92
444.64	5498.93	445.65	5499.01	445.78	5499.04	446.85	5499.12	447.28	5499.16
448.78	5499.26	449.87	5499.29	450.28	5499.26	451.28	5499.3	451.78	5499.3
452.84	5499.32	453.5	5499.3	454.1	5499.33	454.78	5499.3	455.71	5499.36
456.29	5499.35	458.32	5499.4	459.29	5499.4	460.14	5499.42	462.15	5499.64
462.55	5499.69	463.79	5499.87	465.29	5500.04	466.79	5500.22	469	5500.44
469.79	5500.48	471	5500.57	472.79	5500.72	473.43	5500.79	474.3	5500.87
475.22	5500.98	476.11	5501.07	477.86	5501.22	478.8	5501.28	479.45	5501.27
480.3	5501.3	480.77	5501.25	481.8	5501.16	482.29	5501.14	483.9	5501.15

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	250.12	.035
		273.38	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
250.12	273.38	248.34	252.14	256.72		.1	.3

Ineffective Flow	num=	2	
Sta L	Sta R	Elev	Permanent
0	248	5498.1	F
275.58	483.9	5498.12	F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 5879

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5496.85	1.02	5496.92	1.58	5496.94	2.92	5497.01	3.9	5497.01
4.35	5497.03	4.96	5497.04	5.78	5497.04	6.38	5497.01	7.21	5497.03
8.86	5497.02	11.51	5496.93	12.94	5496.93	13.82	5496.87	14.37	5496.89
15.12	5496.87	15.8	5496.89	16.3	5496.86	17.23	5496.83	18.77	5496.71
19.5	5496.66	20.09	5496.6	21.25	5496.53	21.9	5496.52	22.96	5496.47
23.73	5496.51	24.39	5496.48	25.28	5496.52	25.82	5496.51	26.21	5496.54
27.25	5496.52	28.74	5496.52	31.17	5496.47	31.54	5496.47	32.06	5496.45
32.97	5496.43	33.64	5496.39	35.44	5496.32	35.84	5496.32	36.12	5496.29
37.27	5496.24	37.98	5496.17	38.83	5496.12	40.13	5496.03	41.08	5495.99
42.22	5495.97	42.99	5495.99	43.56	5495.99	44.42	5496.01	46.04	5496.07
47.22	5496.14	47.28	5496.15	48.51	5496.21	50.15	5496.22	50.99	5496.18
51.58	5496.11	52.38	5496	53.01	5495.9	53.47	5495.86	54.44	5495.88
55.76	5495.89	56.46	5495.91	57.3	5495.92	58.43	5495.95	59.15	5495.92
60.16	5495.9	61.59	5495.9	62.54	5495.91	63.38	5495.91	64.46	5495.92
65.7	5495.85	65.86	5495.85	67.32	5495.77	68.34	5495.74	68.75	5495.75
69.31	5495.74	70.18	5495.74	70.82	5495.73	73.04	5495.79	74.47	5495.77
74.94	5495.74	75.78	5495.73	77.34	5495.62	78.77	5495.56	80.2	5495.52
81.63	5495.44	82.86	5495.36	84.18	5495.31	84.49	5495.32	85.69	5495.26
86.24	5495.22	87.35	5495.17	88.79	5495.08	90.22	5495.03	90.65	5495.03
91.65	5494.99	93.02	5494.91	93.42	5494.9	94.51	5494.92	95.6	5494.89
95.94	5494.9	97.37	5494.89	98.08	5494.89	98.8	5494.9	99.79	5494.94
100.56	5494.98	101.66	5495.08	102.66	5495.08	103.18	5495.1	105.52	5495.17
105.96	5495.18	107.99	5495.25	108.82	5495.25	109.95	5495.2	110.47	5495.16
111.68	5495.09	111.9	5495.1	112.95	5495.05	113.34	5495.04	114.54	5494.97
116.72	5494.82	117.91	5494.72	118.84	5494.66	120.11	5494.6	121.14	5494.6
121.7	5494.55	122.86	5494.59	124.56	5494.51	125.34	5494.46	125.99	5494.43
126.88	5494.42	127.42	5494.4	128.86	5494.33	130.38	5494.29	131.72	5494.21
132.78	5494.16	133.66	5494.1	134.58	5493.99	135.26	5493.97	136.01	5493.89
137.04	5493.8	137.73	5493.76	140.43	5493.83	141.74	5493.8	143.17	5493.76
143.82	5493.72	145.17	5493.67	146.03	5493.66	147.2	5493.57	148.86	5493.5
148.89	5493.52	150.13	5493.45	150.59	5493.44	151.75	5493.45	152.6	5493.45
153.18	5493.46	154.61	5493.41	156.05	5493.34	157.36	5493.29	158.1	5493.27
158.91	5493.23	160.04	5493.19	160.34	5493.17	161.77	5493	163.24	5492.89
163.61	5492.88	164.43	5492.82	165.29	5492.8	165.57	5492.83	167.34	5492.79
168.43	5492.78	169.39	5492.83	169.48	5492.81	170.43	5492.87	171.43	5492.89
173.39	5492.99	173.48	5492.97	174.44	5493.01	175.35	5493.02	176.44	5493.02
177.3	5493.01	177.58	5493.08	178.44	5493.07	179.26	5493.05	179.62	5493.06
180.44	5493.05	181.22	5493.02	181.67	5492.98	182.44	5492.95	183.17	5492.95
183.72	5492.9	184.44	5492.9	186.44	5492.92	187.08	5492.9	187.81	5492.93
189.04	5492.87	189.86	5492.84	190.44	5492.8	190.99	5492.78	191.91	5492.76
192.44	5492.74	192.95	5492.74	193.95	5492.71	196	5492.69	196.86	5492.67
198.05	5492.69	200.1	5492.66	200.77	5492.66	202.73	5492.63	204.69	5492.59
206.24	5492.53	206.64	5492.52	208.6	5492.4	210.33	5492.14	210.55	5492.1
212.45	5491.64	214.43	5491.24	214.45	5491.23	216.45	5490.79	218.38	5490.43
218.45	5490.41	220.33	5490.44	220.57	5490.45	222.62	5490.83	224.24	5491.15
224.66	5491.24	226.2	5491.44	226.45	5491.48	228.45	5491.39	228.76	5491.35

230.11	5491.24	230.45	5491.19	232.07	5491.14	232.45	5491.12	232.85	5491.18
234.02	5491.32	234.45	5491.39	235.98	5491.71	236.45	5491.8	236.95	5491.87
237.94	5492.05	238.45	5492.12	239.89	5492.25	240.45	5492.29	242.45	5492.25
243.09	5492.17	243.8	5492.15	245.13	5491.96	245.76	5491.9	246.45	5491.79
247.18	5491.73	247.72	5491.65	248.46	5491.58	249.23	5491.57	249.67	5491.47
250.46	5491.45	251.28	5491.44	251.63	5491.46	252.46	5491.44	253.32	5491.45
253.58	5491.47	254.46	5491.48	255.37	5491.47	255.54	5491.43	256.46	5491.42
257.42	5491.36	258.46	5491.28	259.45	5491.26	260.46	5491.21	261.41	5491.2
261.51	5491.22	262.46	5491.21	263.36	5491.19	263.56	5491.23	264.46	5491.22
265.32	5491.26	266.46	5491.3	268.46	5491.32	269.23	5491.31	269.7	5491.32
270.46	5491.31	271.19	5491.34	271.75	5491.33	272.46	5491.36	273.14	5491.36
273.8	5491.35	274.46	5491.35	275.1	5491.33	276.46	5491.31	277.05	5491.33
277.89	5491.47	279.01	5491.51	279.94	5491.56	280.46	5491.58	280.97	5491.58
281.99	5491.52	282.92	5491.51	284.03	5491.43	284.88	5491.39	286.46	5491.29
286.83	5491.3	288.7	5491.39	289.56	5491.4	290.16	5491.39	291	5491.4
292.22	5491.38	292.59	5491.38	293.88	5491.48	295.31	5491.57	295.74	5491.59
296.75	5491.68	297.45	5491.71	298.19	5491.72	299.26	5491.71	299.63	5491.72
301.06	5491.73	301.27	5491.69	302.78	5491.68	303.94	5491.7	304.74	5491.73
306.29	5491.8	307.17	5491.82	309.6	5491.98	309.81	5492	311.13	5492.09
312.56	5492.15	313.33	5492.15	314	5492.14	314.47	5492.16	315.44	5492.15
317.01	5492.17	318.31	5492.22	319.33	5492.24	319.75	5492.27	320.37	5492.25
321.76	5492.25	324.07	5492.36	324.88	5492.37	325.5	5492.41	326.62	5492.41
327.4	5492.38	328.38	5492.38	329.05	5492.36	329.82	5492.35	331.25	5492.32
331.48	5492.33	332.69	5492.35	334.13	5492.34	335.57	5492.39	336.35	5492.39
338.44	5492.43	339.88	5492.44	340.61	5492.4	341.47	5492.39	342.75	5492.41
343.64	5492.37	344.19	5492.37	344.99	5492.34	346.07	5492.33	347.07	5492.35
349.94	5492.39	350.93	5492.34	352.03	5492.33	353.36	5492.35	355.55	5492.55
355.69	5492.57	356.35	5492.57	357.13	5492.61	358.23	5492.59	358.57	5492.57
360.01	5492.51	360.66	5492.5	361.44	5492.5	362.58	5492.53	362.88	5492.55
364.22	5492.61	364.32	5492.65	365.52	5492.67	367.19	5492.67	367.95	5492.66
368.63	5492.68	370.38	5492.75	371.51	5492.8	372.09	5492.74	372.94	5492.74
373.13	5492.75	374.38	5492.78	375.24	5492.76	375.82	5492.78	376.65	5492.78
377.67	5492.83	378.69	5492.89	379.96	5492.92	381.57	5492.93	382.54	5492.88
383.69	5492.8	384.45	5492.77	385.88	5492.75	387.4	5492.82	387.83	5492.83
388.76	5492.88	389.83	5492.9	390.2	5492.92	391.63	5492.94	392.26	5492.92
393.07	5492.93	394.24	5492.89	395.7	5492.85	395.95	5492.83	397.38	5492.8
397.76	5492.82	398.82	5492.82	399.55	5492.84	400.26	5492.85	401.7	5492.89
401.99	5492.89	403.13	5492.83	403.57	5492.79	406.01	5492.65	406.85	5492.63
407.45	5492.63	409.28	5492.69	410.32	5492.67	411.44	5492.69	411.83	5492.69
413.2	5492.75	414.14	5492.8	414.64	5492.81	415.35	5492.79	416.07	5492.76
416.57	5492.75	417.51	5492.7	419	5492.61	420.39	5492.61	421.43	5492.62
422.39	5492.67	423.26	5492.74	423.87	5492.73	424.7	5492.75	426.3	5492.66
427.17	5492.67	427.57	5492.65	428.73	5492.67	429.42	5492.69	430.45	5492.7
431.16	5492.73	431.89	5492.72	432.94	5492.75	434.76	5492.73	435.04	5492.72
436.2	5492.71	437.64	5492.76	438.45	5492.81	439.07	5492.84	439.98	5492.91
440.88	5493	441.95	5493.08	442.91	5493.08	443.31	5493.1	444.83	5493.03
445.75	5493.03	446.26	5493.02	447.01	5493.06	447.7	5493.08	448.18	5493.07
449.14	5493.1	450.78	5493.09	452.01	5493.1	453.04	5493.14	453.45	5493.12
454.05	5493.16	454.89	5493.19	455.47	5493.25	456.33	5493.25	457.57	5493.32
458.65	5493.36	459.2	5493.33	460.33	5493.41	460.64	5493.41	462.08	5493.44
462.76	5493.49	463.51	5493.5	464.6	5493.48	465.19	5493.43	466.39	5493.43
466.52	5493.36	467.63	5493.32	468.12	5493.31	469.26	5493.34	470.12	5493.33

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	208.6	.035	234.45	.05
Bank Sta: Left	Right	Lengths: Left Channel		Right	Coeff
208.6	234.45	274.74	274.67	274.29	.1
Ineffective Flow	num=		1		Expan.
Sta L	Sta R	Elev	Permanent		
240.45	470.12	5492.29	F		

CROSS SECTION

RIVER: Rainbow Trib
 REACH: North-DS-0 RS: 5605

INPUT									
Description:									
Station Elevation Data		num=		490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5489.25	1.22	5489.26	2.71	5489.25	2.84	5489.24	4.2	5489.05
4.98	5489	5.69	5488.98	7.1	5488.99	8.67	5488.92	10.16	5488.84
11.56	5488.75	13.14	5488.69	14.63	5488.83	16.02	5488.91	17.61	5488.98
18.4	5489.02	19.1	5489.04	20.59	5489.04	22.88	5488.9	23.57	5488.89
25.28	5489	26.55	5489.01	27.35	5489.03	28.04	5488.96	29.41	5488.79
31.02	5488.65	31.83	5488.57	32.51	5488.59	33.87	5488.5	35.49	5488.46
36.3	5488.45	36.98	5488.43	38.75	5488.36	39.96	5488.33	40.78	5488.29
41.45	5488.28	42.79	5488.23	43.23	5488.2	44.43	5488.15	45.25	5488.05
45.92	5488.03	47.25	5487.95	48.9	5487.89	49.72	5487.85	51.71	5487.58
53.37	5487.37	54.2	5487.29	54.86	5487.24	56.44	5487.21	57.84	5487.15
58.67	5487.13	59.33	5487.09	60.91	5487.08	62.31	5487.13	63.8	5487.13
65.68	5487.1	66.78	5487.05	67.62	5487.04	68.27	5487.02	69.76	5487.04
70.17	5487	71.25	5486.85	72.1	5486.78	74.23	5486.67	74.65	5486.67
76.57	5486.71	77.21	5486.71	79.14	5486.66	81.05	5486.62	81.68	5486.64
82.94	5486.72	83.63	5486.72	84.66	5486.64	85.52	5486.64	86.15	5486.6
87.4	5486.54	87.64	5486.52	88.12	5486.53	89.13	5486.51	90	5486.53
90.62	5486.57	91.87	5486.69	92.61	5486.74	93.6	5486.82	94.47	5486.84
95.09	5486.75	96.33	5486.65	96.71	5486.61	98.07	5486.59	98.95	5486.59
99.56	5486.6	101.19	5486.52	102.54	5486.49	103.42	5486.48	104.03	5486.49

105.25	5486.55	107.01	5486.75	107.9	5486.83	108.5	5486.91	109.71	5486.99
110.14	5487.01	111.48	5487.17	112.37	5487.27	112.97	5487.26	114.17	5487.31
114.46	5487.31	115.05	5487.28	115.95	5487.21	116.85	5487.18	117.44	5487.11
118.34	5487.05	119.14	5486.98	119.81	5486.99	120.47	5486.93	121.14	5486.79
121.8	5486.73	122.47	5486.59	123.15	5486.4	123.8	5486.24	124.47	5486.04
125.15	5485.94	125.79	5485.79	126.47	5485.69	127.16	5485.69	127.79	5485.6
128.47	5485.6	129.16	5485.62	129.78	5485.74	130.47	5485.75	131.17	5485.95
131.78	5486.11	132.47	5486.31	133.17	5486.44	133.77	5486.58	134.47	5486.71
135.18	5486.66	135.77	5486.66	136.47	5486.61	137.18	5486.51	137.76	5486.37
138.47	5486.28	139.19	5486.17	139.76	5486.05	141.19	5485.83	141.75	5485.76
142.47	5485.64	143.2	5485.59	143.75	5485.57	144.47	5485.52	145.2	5485.51
145.74	5485.42	147.21	5485.39	147.74	5485.41	148.47	5485.4	149.21	5485.63
149.73	5485.89	150.47	5486.12	151.22	5486.3	151.73	5486.53	152.47	5486.71
153.22	5486.84	153.72	5486.83	154.47	5486.96	155.23	5486.97	156.47	5487.01
157.23	5486.86	157.71	5486.79	158.47	5486.64	159.24	5486.29	159.71	5485.96
160.47	5485.61	161.25	5485.39	161.7	5485.23	162.47	5485.02	163.25	5484.83
163.7	5484.79	164.47	5484.61	165.26	5484.45	165.69	5484.39	166.47	5484.24
168.47	5483.91	169.27	5483.97	169.68	5483.94	170.47	5484	171.27	5484.01
171.68	5483.91	172.47	5483.91	173.28	5483.89	173.67	5483.97	174.47	5483.95
175.28	5483.9	175.67	5483.9	176.47	5483.86	177.29	5483.88	177.66	5483.93
178.47	5483.95	179.29	5484	179.66	5484.06	180.47	5484.11	181.3	5484.28
181.65	5484.34	182.47	5484.51	183.3	5484.73	183.65	5484.85	184.47	5485.07
185.31	5485.35	185.64	5485.44	186.47	5485.73	187.31	5485.94	187.64	5485.94
188.47	5486.15	189.32	5486.25	189.63	5486.24	190.47	5486.34	191.32	5486.35
191.63	5486.37	192.47	5486.38	193.33	5486.35	193.62	5486.39	194.47	5486.37
195.33	5486.32	195.62	5486.37	196.47	5486.33	197.34	5486.31	197.61	5486.29
198.47	5486.28	199.34	5486.21	199.61	5486.2	200.47	5486.13	201.35	5486.03
202.47	5485.88	203.35	5485.83	203.6	5485.77	204.47	5485.72	205.36	5485.65
205.59	5485.66	206.47	5485.59	207.36	5485.55	207.59	5485.6	208.47	5485.56
211.37	5485.59	213.38	5485.62	213.57	5485.63	215.38	5485.65	215.57	5485.63
216.47	5485.65	217.39	5485.73	217.56	5485.64	218.47	5485.73	219.39	5485.71
219.56	5485.79	220.47	5485.77	221.39	5485.77	222.68	5485.67	222.92	5485.66
224.04	5485.68	224.23	5485.65	225.52	5485.7	227.07	5485.71	228.11	5485.7
228.95	5485.71	230.71	5485.77	231.33	5485.84	232.08	5485.91	232.75	5485.99
233.31	5486.02	234.17	5486.04	235.59	5486.02	235.91	5485.99	237.01	5485.92
238.51	5485.94	242.7	5485.81	243.71	5485.79	244.61	5485.82	245.54	5485.86
246.31	5485.88	247.74	5485.94	248.38	5485.98	249.8	5485.94	251.22	5485.93
251.5	5485.91	252.64	5485.9	254.1	5485.88	254.57	5485.85	255.48	5485.77
256.7	5485.73	257.14	5485.7	258.32	5485.6	259.3	5485.61	259.74	5485.64
260.27	5485.65	261.16	5485.69	261.9	5485.7	262.58	5485.67	264.5	5485.64
266.54	5485.55	267.1	5485.54	268.26	5485.64	269.67	5485.71	269.83	5485.7
271.1	5485.68	272.29	5485.6	272.8	5485.59	273.94	5485.63	274.89	5485.63
275.36	5485.61	277.49	5485.62	278.2	5485.6	279.06	5485.6	279.62	5485.59
281.04	5485.66	282.69	5485.6	283.89	5485.59	285.29	5485.54	286.73	5485.54
287.89	5485.6	288.15	5485.6	290.48	5485.66	291.59	5485.65	292.41	5485.65
293.83	5485.62	294.72	5485.53	295.25	5485.5	295.68	5485.46	297.86	5485.44
299.51	5485.51	300.99	5485.59	302.35	5485.62	303.77	5485.67	304.12	5485.67
305.19	5485.62	306.08	5485.59	306.61	5485.62	308.03	5485.72	308.68	5485.74
309.45	5485.75	310.87	5485.87	311.28	5485.87	312.29	5485.85	313.87	5485.89
315.13	5485.73	315.61	5485.7	316.47	5485.61	317.97	5485.62	319.07	5485.59
319.78	5485.62	320.81	5485.64	321.67	5485.73	322.23	5485.75	322.91	5485.79
323.65	5485.79	324.27	5485.82	325.07	5485.79	326.05	5485.8	326.5	5485.78
326.87	5485.8	327.92	5485.68	329.18	5485.66	329.34	5485.65	330.76	5485.78
330.87	5485.81	332.31	5485.96	333.6	5485.93	334.66	5485.99	335.02	5485.99
336.44	5486.02	337.26	5486.01	337.86	5485.99	339.86	5485.99	340.7	5485.97
341.71	5485.97	342.12	5485.95	342.46	5485.97	343.54	5486	345.06	5485.94
346.13	5485.99	346.38	5485.97	347.66	5486.05	347.8	5486.05	349.22	5486.14
350.26	5486.24	351.1	5486.27	352.06	5486.27	352.86	5486.26	353.48	5486.23
354.24	5486.24	354.9	5486.23	356.32	5486.16	357.74	5486.17	358.05	5486.14
359.16	5486.12	360.5	5486.08	361.39	5486.11	362	5486.11	363.25	5486.18
363.63	5486.19	364.84	5486.18	365.85	5486.14	366.76	5486.13	367.68	5486.1
368.45	5486.11	369.1	5486.13	369.9	5486.17	371.95	5486.19	373.65	5486.25
374.79	5486.27	376.16	5486.31	376.66	5486.34	377.63	5486.35	378.84	5486.47
380.47	5486.55	381.44	5486.67	382.42	5486.73	383.31	5486.73	384.04	5486.67
384.73	5486.6	385.56	5486.53	386.15	5486.45	387.57	5486.31	388.69	5486.33
389.24	5486.37	390.41	5486.44	391.82	5486.42	393.25	5486.43	394.67	5486.37
396.09	5486.46	397.04	5486.48	398.09	5486.47	398.93	5486.43	399.63	5486.42
400.35	5486.34	401.77	5486.38	402.23	5486.42	403.19	5486.53	404.35	5486.49
404.83	5486.51	406.03	5486.64	407.18	5486.75	408.87	5486.94	410.03	5486.99
410.29	5487.01	411.71	5486.91	413.13	5486.88	413.75	5486.91	414.56	5486.97
415.23	5487	415.98	5487.01	416.88	5486.98	417.4	5486.95	417.83	5486.9
418.82	5486.81	420.01	5486.73	420.24	5486.73	421.66	5486.82	422.44	5486.83
424.5	5486.92	425.92	5486.91	427.34	5486.97	428.22	5486.95	428.76	5486.97
429.41	5486.95	431.6	5486.93	433.02	5486.99	434.44	5487.07	435.67	5487.15
437.28	5487.21	438.8	5487.25	440.12	5487.18	441.21	5487.21	441.94	5487.16
442.96	5487.06	443.81	5487.02	444.38	5487.01	445.07	5486.98	447.22	5486.93
448.2	5486.92	448.64	5486.94	450.06	5487.07	451.33	5487.13	451.61	5487.15
452.9	5487.19	454.46	5487.09	455.74	5487.07	456.81	5487.06	457.17	5487.07
457.6	5487.04	458.59	5487	459.41	5486.95	460.01	5486.98	460.43	5486.98

Manning's	n	Values	num=	3					
Sta	n	Val	Sta	n	Val				
0	.05	163.25	.035	183.65	.05				
Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	163.25	183.65		210.31	212.19	211.92		.1	.3
Ineffective Flow			num=	3					
Sta L	Sta R	Elev	Permanent						
43.35	114.17	5487.31	F						
114.17	156.47	5487.01	F						
193.62	452.48	5486.39	F						

CROSS SECTION

RIVER: Rainbow Trib

REACH: North-DS-0 RS: 5392

INPUT

Description:

Station	Elevation	Data	num=	461	Station	Elevation	Station	Elevation	Station	Elevation
0	5483.59		.49	5483.6	1.04	5483.62	1.91	5483.56	2.69	5483.56
3.33	5483.51		4.03	5483.52	4.74	5483.5	5.38	5483.53	6.16	5483.5
7.03	5483.46		7.57	5483.43	8.07	5483.44	8.99	5483.43	10.02	5483.41
10.41	5483.38		10.75	5483.39	11.82	5483.39	13.02	5483.52	13.44	5483.54
14.66	5483.53		16.01	5483.55	16.13	5483.54	17.12	5483.54	17.49	5483.52
18.9	5483.53		19.01	5483.54	20.32	5483.58	21.5	5483.53	21.74	5483.53
22	5483.51		23.15	5483.47	24.19	5483.46	24.57	5483.45	25.99	5483.45
26.87	5483.46		27.4	5483.47	27.99	5483.47	28.82	5483.45	30.24	5483.43
30.99	5483.41		31.65	5483.4	32.25	5483.4	33.07	5483.41	33.98	5483.38
34.48	5483.4		34.94	5483.39	35.9	5483.42	36.98	5483.41	37.32	5483.43
37.62	5483.41		38.73	5483.45	39.97	5483.42	40.15	5483.43	40.31	5483.42
41.57	5483.4		42.97	5483.38	43.26	5483.37	44.4	5483.31	45.68	5483.29
47.23	5483.24		48.37	5483.26	48.96	5483.26	50.06	5483.29	51.06	5483.35
51.48	5483.39		52.9	5483.42	53.74	5483.39	54.31	5483.35	55.73	5483.28
56.43	5483.26		57.14	5483.21	57.94	5483.17	58.56	5483.13	59.12	5483.16
59.98	5483.16		60.93	5483.25	61.39	5483.26	61.81	5483.29	62.81	5483.26
64.23	5483.17		65.64	5483.06	66.92	5483	67.18	5482.98	68.48	5482.89
69.87	5482.77		71.31	5482.72	72.55	5482.63	72.91	5482.65	74.14	5482.78
75.24	5482.71		75.56	5482.72	75.91	5482.71	76.97	5482.8	77.93	5482.72
78.39	5482.69		78.9	5482.67	79.81	5482.68	80.61	5482.61	81.22	5482.59
81.9	5482.56		82.64	5482.56	83.3	5482.51	84.05	5482.51	85.47	5482.58
85.99	5482.6		86.89	5482.64	87.89	5482.7	88.3	5482.72	88.67	5482.73
89.72	5482.73		90.4	5482.72	90.78	5482.72	91.11	5482.73	91.45	5482.71
92.76	5482.69		94.73	5482.58	95.12	5482.55	95.51	5482.59	96.71	5482.78
97.12	5482.82		97.53	5482.87	98.68	5483.07	99.12	5483.12	99.56	5483.22
100.66	5483.26		101.12	5483.37	101.58	5483.35	102.64	5483.32	103.12	5483.3
103.61	5483.27		104.61	5483.23	105.63	5483.15	106.59	5483.07	107.12	5483.03
107.66	5482.92		108.56	5482.81	109.12	5482.7	109.69	5482.46	111.12	5481.87
111.71	5481.66		112.51	5481.36	113.12	5481.15	113.74	5481.04	114.49	5480.88
115.76	5480.64		116.46	5480.54	117.12	5480.42	117.79	5480.35	118.44	5480.29
119.12	5480.22		119.82	5480.28	120.41	5480.29	121.84	5480.41	122.39	5480.46
123.12	5480.52		123.87	5480.57	124.36	5480.62	125.12	5480.67	125.89	5480.71
126.34	5480.68		127.12	5480.72	127.92	5480.63	128.31	5480.49	129.12	5480.4
130.29	5480.13		131.12	5479.95	131.97	5479.66	132.26	5479.67	133.12	5479.37
134	5479.16		134.24	5479.11	135.12	5478.89	136.02	5478.77	136.21	5478.75
137.12	5478.63		138.05	5478.54	138.19	5478.49	139.12	5478.39	140.07	5478.38
140.16	5478.35		140.43	5478.35	142.1	5478.3	142.14	5478.34	143.12	5478.3
144.11	5478.72		145.12	5478.92	146.09	5479.68	146.15	5479.77	147.12	5480.52
148.06	5481.06		148.18	5481.03	149.12	5481.56	150.04	5481.65	150.2	5481.85
151.12	5481.94		152.01	5482	152.23	5482.08	153.12	5482.14	153.99	5482.13
154.25	5482.2		155.12	5482.19	155.96	5482.13	156.28	5482.12	157.12	5482.05
157.94	5482.04		158.31	5482.04	159.12	5482.03	159.91	5482.06	160.33	5482.06
161.12	5482.09		161.89	5482.15	162.36	5482.14	163.12	5482.2	163.87	5482.24
164.38	5482.28		165.12	5482.32	165.84	5482.31	166.41	5482.38	167.12	5482.37
167.82	5482.4		169.12	5482.44	169.79	5482.45	170.46	5482.4	171.12	5482.41
171.77	5482.33		172.49	5482.26	173.12	5482.18	173.74	5482.19	174.51	5482.17
175.12	5482.18		175.72	5482.22	176.54	5482.18	177.12	5482.22	177.69	5482.3
178.56	5482.36		179.12	5482.43	179.67	5482.45	180.59	5482.49	181.12	5482.51
181.64	5482.47		182.62	5482.5	183.12	5482.46	183.62	5482.48	184.64	5482.51
185.59	5482.55		186.67	5482.56	187.12	5482.58	187.57	5482.59	188.69	5482.64
189.12	5482.65		189.54	5482.65	190.72	5482.66	191.12	5482.66	191.52	5482.65
192.74	5482.61		193.12	5482.6	193.49	5482.62	194.77	5482.62	197.12	5482.69
197.44	5482.69		198.82	5482.72	199.12	5482.72	199.42	5482.73	200.85	5482.85
201.12	5482.87		201.39	5482.88	202.87	5482.96	203.37	5482.97	204.9	5482.99
205.12	5482.99		205.34	5483.01	206.92	5483.11	207.12	5483.13	209.12	5483.24
209.29	5483.24		210.98	5483.12	211.27	5483.13	213	5483.22	213.24	5483.24
214.68	5483.4		215.08	5483.42	215.61	5483.41	216.56	5483.36	217.07	5483.34
218.03	5483.34		218.83	5483.36	219.5	5483.37	219.78	5483.38	221.63	5483.35
222.45	5483.35		223.95	5483.37	225.4	5483.5	226.19	5483.53	226.87	5483.5
228.34	5483.43		228.89	5483.43	229.82	5483.41	230.75	5483.42	231.29	5483.43
232.29	5483.46		232.77	5483.48	233.03	5483.5	233.92	5483.53	234.24	5483.55
235.71	5483.59		237.19	5483.53	237.59	5483.52	238.66	5483.48	238.95	5483.43
239.87	5483.38		240.62	5483.38	242.15	5483.41	243.08	5483.42	243.98	5483.39
244.79	5483.39		246.03	5483.33	246.7	5483.3	247.5	5483.27	248.96	5483.21
250.45	5483.25		251.26	5483.3	251.92	5483.33	253.13	5483.47	253.4	5483.51
254.87	5483.51		255.82	5483.5	256.34	5483.48	257.3	5483.43	257.82	5483.37
258.1	5483.36		259.07	5483.37	259.29	5483.33	260.38	5483.37	260.77	5483.38
262.24	5483.44		263.71	5483.47	264.1	5483.49	265.19	5483.5	265.64	5483.52
267.22	5483.55		268.13	5483.56	269.13	5483.58	269.81	5483.58	271.08	5483.57
271.78	5483.65		272.56	5483.66	273.98	5483.71	274.15	5483.72	275.5	5483.83
276.34	5483.83		276.98	5483.85	278.15	5483.85	278.45	5483.84	278.62	5483.85
279.18	5483.84		279.92	5483.8	281.4	5483.8	282.31	5483.81	282.87	5483.82
284.21	5483.87		284.34	5483.88	285.45	5483.92	285.82	5483.95	286.48	5483.99
287.73	5484.05		288.77	5484.09	289.24	5484.07	290.01	5484.09	290.24	5484.09
290.65	5484.06		291.71	5484.01	292.29	5483.98	293.19	5483.94	294.27	5483.85
294.57	5483.83		294.82	5483.83	296.13	5483.92	296.85	5483.9	297.61	5483.89
299.3	5483.84		300.55	5483.77	302.03	5483.77	303.16	5483.79	304.33	5483.86
304.98	5483.89		305.97	5483.96	306.45	5483.99	307.33	5484.03	307.92	5484.06
308.25	5484.06		309.36	5484	309.4	5484.01	310.53	5483.95	310.87	5483.96
311.5	5483.95		312.34	5483.96	312.81	5483.97	313.82	5484.04	314.39	5484.04
315.09	5484.09		315.67	5484.09	316.77	5484.1	317.37	5484.1	318.24	5484.08
319.42	5484.04		319.65	5484.03	321.19	5484.02	321.92	5484.03	322.66	5484.05

324	5484.07	324.45	5484.08	325.61	5484.1	326.48	5484.12	327.08	5484.14
329.47	5484.14	330.03	5484.11	331.04	5484.11	332.34	5484.17	332.98	5484.21
333.32	5484.21	334.45	5484.26	335.6	5484.32	335.92	5484.32	336.51	5484.31
337.4	5484.26	337.88	5484.24	338.87	5484.17	339.53	5484.1	340.16	5484.05
340.34	5484.03	340.68	5484.01	341.82	5483.93	342.44	5483.91	343.29	5483.9
344.56	5483.93	344.85	5483.93	346.24	5483.96	347	5483.94	347.71	5483.96
349.02	5483.94	349.59	5483.93	350.66	5483.94	351.56	5483.9	352.13	5483.88
353.84	5483.93	354.62	5483.99	355.08	5483.99	356.12	5484.07	356.55	5484.1
358.03	5484.17	359.5	5484.25	359.65	5484.25	360.68	5484.31	361.53	5484.31
362.45	5484.3	362.95	5484.29	363.92	5484.23	364.68	5484.18	365.23	5484.14
365.45	5484.14								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	109.69	.035	148.06	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	109.69	148.06		160.96	163.94	164.91	.1	.3

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 5228

INPUT

Description:

Station	Elevation	Data	num=	454					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5478.02	.12	5478.02	.95	5477.97	1.04	5477.97	1.15	5477.98
2.46	5477.97	3.52	5477.95	3.88	5477.94	4.33	5477.91	5.31	5477.77
6.09	5477.69	6.73	5477.57	7.52	5477.51	8.15	5477.42	8.66	5477.38
9.57	5477.31	10.7	5477.3	10.99	5477.31	11.23	5477.34	12.42	5477.43
13.42	5477.34	13.8	5477.35	13.84	5477.35	13.89	5477.34	15.26	5477.24
16.37	5477.06	16.68	5477.02	17.07	5476.98	18.11	5476.89	18.94	5476.85
19.53	5476.86	20.26	5476.86	20.95	5476.89	21.51	5476.88	22.37	5476.87
23.45	5476.86	23.79	5476.86	24.08	5476.85	25.22	5476.83	26.63	5476.79
26.72	5476.79	28.06	5476.66	29.22	5476.62	29.48	5476.61	29.82	5476.6
30.91	5476.54	31.79	5476.52	32.33	5476.51	33	5476.46	33.75	5476.39
34.36	5476.32	35.17	5476.25	36.19	5476.23	36.6	5476.22	36.93	5476.22
38.02	5476.19	39.37	5476.18	39.44	5476.18	40.01	5476.14	40.86	5476.13
42.06	5476.01	42.28	5476	42.56	5475.96	43.71	5475.85	44.63	5475.68
45.13	5475.63	45.74	5475.55	46.55	5475.55	47.2	5475.5	47.97	5475.53
48.93	5475.58	49.4	5475.61	49.77	5475.61	50.82	5475.63	52.11	5475.6
52.24	5475.61	52.34	5475.59	53.31	5475.52	53.66	5475.47	54.91	5475.39
55.08	5475.39	55.3	5475.37	56.51	5475.29	57.48	5475.23	57.93	5475.2
58.48	5475.18	59.35	5475.25	60.05	5475.31	60.77	5475.36	61.67	5475.42
62.2	5475.46	62.62	5475.52	63.62	5475.57	64.85	5475.72	65.04	5475.7
65.19	5475.7	66.46	5475.48	66.61	5475.5	67.76	5475.34	67.89	5475.33
68.04	5475.32	69.31	5475.25	70.33	5475.3	70.73	5475.31	71.22	5475.33
72.15	5475.39	72.9	5475.39	73.57	5475.36	74.41	5475.34	75	5475.33
75.47	5475.31	76.42	5475.23	77.59	5475.25	77.84	5475.25	78.04	5475.26
79.26	5475.41	79.9	5475.37	80.61	5475.42	80.69	5475.41	80.78	5475.4
82.11	5475.26	83.18	5475.17	83.53	5475.16	83.96	5475.18	84.95	5475.2
85.75	5475.24	86.38	5475.26	87.15	5475.19	87.8	5475.16	88.32	5475.11
89.22	5475.06	90.12	5474.97	90.26	5474.95	90.78	5474.97	91.88	5475.03
92.27	5475.05	92.58	5475.06	94.16	5475.13	94.38	5475.13	95.22	5475.1
96.18	5475.07	96.3	5475.08	96.44	5475.07	97.98	5475.01	98.31	5475
98.73	5474.98	99.79	5474.96	100.33	5474.93	101.01	5474.8	101.59	5474.66
102.34	5474.52	103.3	5474.38	103.39	5474.33	104.35	5474.2	105.19	5474.23
105.58	5474.17	106.37	5474.19	106.99	5474.18	107.86	5474.16	108.38	5474.15
108.79	5474.12	109.29	5474.12	110.15	5474.11	110.4	5474.1	110.59	5474.1
112.25	5474.09	114.19	5474.09	114.42	5474.1	114.71	5474.08	116	5474.07
116.44	5474.04	117	5474.01	117.8	5474.06	118.45	5474.02	119.28	5474.09
119.6	5474.04	120.47	5474.12	121.4	5474.07	121.57	5474.13	122.48	5474.09
123.2	5474.11	123.85	5474.15	124.49	5474.17	125	5474.26	126.13	5474.43
126.51	5474.5	126.8	5474.54	128.42	5474.69	128.52	5474.7	129.29	5474.75
130.4	5474.83	130.54	5474.83	130.7	5474.85	132.2	5475	132.55	5475.04
132.99	5475.1	134.01	5475.18	134.56	5475.27	135.27	5475.31	135.81	5475.32
136.58	5475.37	137.55	5475.39	137.61	5475.41	138.59	5475.43	139.41	5475.46
139.84	5475.42	140.6	5475.44	141.21	5475.38	142.12	5475.48	142.62	5475.44
143.01	5475.45	144.41	5475.52	144.63	5475.53	144.81	5475.54	146.32	5475.63
146.61	5475.64	146.65	5475.64	148.41	5475.51	148.66	5475.49	148.97	5475.46
150.21	5475.35	150.67	5475.32	151.26	5475.31	152.02	5475.26	152.69	5475.25
153.54	5475.23	153.82	5475.23	154.7	5475.2	155.62	5475.24	155.83	5475.25
156.72	5475.29	157.42	5475.31	158.11	5475.36	158.73	5475.38	159.22	5475.42
160.39	5475.48	160.74	5475.5	161.02	5475.52	162.68	5475.44	162.76	5475.44
163.36	5475.41	164.62	5475.35	164.77	5475.34	164.96	5475.33	166.42	5475.25
166.79	5475.23	167.24	5475.23	168.22	5475.21	168.8	5475.22	169.53	5475.18
170.03	5475.19	170.81	5475.15	171.81	5475.08	172.83	5475.06	173.63	5474.96
174.1	5474.97	174.84	5474.88	175.43	5474.9	176.38	5474.89	176.86	5474.91
177.23	5474.95	178.53	5475.02	178.61	5475.03	178.98	5475.08	180.03	5475.14
181.18	5475.29	181.45	5475.29	181.68	5475.28	182.86	5475.15	184.16	5475.07
184.28	5475.05	184.38	5475.04	185.69	5474.93	186.43	5474.9	187.08	5474.86
187.15	5474.86	188.53	5474.93	189.77	5474.9	189.94	5474.91	190.13	5474.91
191.36	5474.98	192.47	5475.06	192.77	5475.07	193.11	5475.08	194.19	5475.18
195.17	5475.24	195.61	5475.25	196.09	5475.22	197.02	5475.14	197.87	5475.1
198.44	5475.09	199.07	5475.08	199.85	5475.07	200.57	5475.08	201.27	5475.14
202.05	5475.27	202.69	5475.38	203.26	5475.44	204.1	5475.47	205.03	5475.43
205.52	5475.41	205.96	5475.42	206.93	5475.4	208.01	5475.34	208.35	5475.3
208.66	5475.31	209.76	5475.32	210.99	5475.31	211.36	5475.31	212.6	5475.37
213.97	5475.39	214.05	5475.39	214.87	5475.43	215.43	5475.44	216.75	5475.53

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	103.39	124.49		276.31	278.07	277.19		.1	.3
Ineffective Flow		num=	2						
Sta L	Sta R	Elev	Permanent						
0	64.85	5475.72	F						
146.65	317.32	5475.64	F						

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 4950

Description:

[illegible]

185.39	5466.44	186.92	5466.49	187.33	5466.47	188.12	5466.48	188.45	5466.5
189.98	5466.52	190.29	5466.53	191.04	5466.7	191.51	5466.85	193.04	5467.19
194.44	5467.46	194.75	5467.53	196.1	5467.86	197.63	5468.19	198.47	5468.29
198.96	5468.38	199.16	5468.38	201.11	5468.1	201.7	5467.95	202.43	5467.6
203.13	5467.45	204.05	5467.24	205.14	5467	206.4	5466.77	207.16	5466.64
207.73	5466.61	208.76	5466.67	209.18	5466.65	209.5	5466.65	211.11	5466.69
211.75	5466.71	213.04	5466.77	213.22	5466.77	213.46	5466.74	214.81	5466.68
215.24	5466.62	215.82	5466.63	216.58	5466.61	217.26	5466.62	218.17	5466.62
218.35	5466.59	219.28	5466.59	220.53	5466.56	221.89	5466.54	222.88	5466.43
225.23	5466.37	225.34	5466.36	227.19	5466.61	227.59	5466.66	228.96	5466.86
229.38	5466.9	229.94	5467.02	230.73	5467.26	231.4	5467.4	232.29	5467.52
232.5	5467.46	233.42	5467.59	234.27	5467.79	234.65	5467.78	235.44	5467.95
236.04	5467.96	237	5468.03	237.46	5468.04	237.81	5468.03	239.35	5468.22
240.26	5468.2	241.71	5468.13	243.12	5467.86	244.06	5467.71	244.89	5467.61
246.41	5467.36	246.66	5467.37	247.56	5467.23	248.42	5467.2	248.77	5467.13
249.58	5467.1	250.19	5467.11	251.12	5467.1	251.6	5467.11	251.96	5467.1
253.47	5467.19	253.73	5467.19	255.5	5467.26	255.83	5467.25	257.27	5467.29
257.66	5467.28	258.18	5467.3	259.04	5467.32	259.68	5467.35	260.53	5467.37
260.81	5467.35	261.7	5467.37	262.58	5467.41	262.89	5467.41	264.35	5467.48
265.74	5467.56	266.12	5467.6	267.59	5467.7	267.76	5467.72	269.66	5467.72
269.95	5467.71	271.43	5467.6	271.8	5467.58	272.3	5467.61	273.19	5467.54
274.66	5467.64	274.96	5467.76	275.84	5467.81	276.73	5467.93	277.01	5467.85
277.86	5467.96	278.5	5467.93	279.36	5467.94	280.27	5467.9	282.04	5467.89
283.03	5467.91	283.92	5467.94	285.42	5468.04	285.89	5468.1	287.33	5468.27
287.87	5468.32	288.76	5468.38	290.02	5468.44	290.2	5468.44	291.07	5468.5
291.63	5468.48	292.78	5468.59	293.07	5468.6	293.47	5468.64	294.5	5468.69
295.23	5468.7	295.93	5468.72	296.93	5468.76	297.37	5468.77	297.68	5468.8
298.8	5468.85	299.53	5468.92	300.13	5468.96	300.38	5468.96	301.67	5469
302.59	5469.12	303.11	5469.17	303.84	5469.26	304.54	5469.32	305.04	5469.34
305.98	5469.43	307.29	5469.48	307.49	5469.48	307.98	5469.51	308.84	5469.46
309.94	5469.6	310.28	5469.6	310.75	5469.63	311.71	5469.63	312.4	5469.71
313.15	5469.75	314.58	5469.75	314.85	5469.77	316.02	5469.91	316.43	5469.86
317.3	5469.93	318.89	5469.92	319.76	5469.9	320.32	5469.9	322.21	5469.93
324.57	5470	324.88	5470	326.06	5469.9	327.11	5469.93	327.49	5469.95
328.03	5470.01	328.93	5470.08	329.57	5470.08	330.36	5470.1	331.48	5470.06
333.23	5470.02	334.47	5470.01	334.94	5470	336.1	5470.02	337.53	5470.06
338.97	5470.03	340.4	5470.06	341.84	5470.03	343.27	5470.07	344.28	5470.08
346.14	5470.12	346.73	5470.18	347.57	5470.21	348.76	5470.28	349.19	5470.28
350.23	5470.17	350.44	5470.14	351.64	5470.03	352.21	5470.01	353.31	5469.91
354.09	5469.83	354.75	5469.82	356.18	5469.79	356.54	5469.8	357.62	5469.87
358.69	5469.81	359.12	5469.8	360.48	5469.74	361.45	5469.75	361.92	5469.82
362.58	5469.82	363.35	5469.88	363.9	5469.86	364.79	5469.87	366.22	5469.87
366.35	5469.85	367.14	5469.77	367.66	5469.75	369.49	5469.53	371.26	5469.6
371.96	5469.67	372.95	5469.69	373.39	5469.72	373.71	5469.72	374.83	5469.76
375.59	5469.8	376.4	5469.83	377.7	5469.84	378.62	5469.81	379.13	5469.81
379.86	5469.75	380.57	5469.72	381.07	5469.72	382	5469.76	383.52	5469.84
384.04	5469.85	384.87	5469.94	385.98	5469.93	386.3	5469.92	386.77	5469.88
387.74	5469.87	389.17	5469.96	390.22	5469.89	390.88	5469.87	392.04	5469.9
392.49	5469.85	393.68	5469.84	394.91	5469.85	395.79	5469.81	396.35	5469.83
397.13	5469.8	397.78	5469.81	398.24	5469.79	399.21	5469.81	400.69	5469.8
400.94	5469.81	403.14	5469.87	404.04	5469.88	405.6	5469.95	406.39	5470.02
407.82	5470.07	409.26	5470.08	409.39	5470.04	410.5	5470.03	410.69	5470.01
410.95	5470.02	412.12	5469.95	412.95	5469.93	413.56	5469.9	414.41	5469.88
415.41	5469.84	416.43	5469.83	417.86	5469.85	419.3	5469.96	420.31	5469.96
421.32	5469.93	422.17	5469.94	422.76	5469.86	423.6	5469.84	424.78	5469.79
426.3	5469.9	426.47	5469.88	427.67	5470	428.23	5470.03	429.36	5470.02

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 206.4 .035 229.38 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
206.4 229.38 255.88 254.37 253.06 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 198.95 5468.38 F
239.58 429.36 5468.22 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 4696

INPUT

Description:
Station Elevation Data num= 490
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
0 5465.36 .6 5465.36 1.88 5465.33 2.13 5465.33 3.02 5465.28
3.45 5465.28 4.67 5465.2 4.87 5465.18 5.14 5465.18 6.3 5465.14
7.21 5465.14 7.72 5465.13 8.39 5465.15 9.15 5465.2 9.74 5465.2
10.57 5465.21 11.64 5465.24 12 5465.24 12.28 5465.25 13.42 5465.17
14.51 5465.23 14.9 5465.22 16.27 5465.15 17.35 5465.01 18.15 5464.94
19.12 5464.91 19.88 5464.91 21.4 5464.93 22.42 5464.96 23.4 5464.91
24.66 5464.88 24.95 5464.86 26.01 5464.82 26.25 5464.76 27.49 5464.75
27.91 5464.75 29.1 5464.7 30.03 5464.69 30.52 5464.67 31.16 5464.66
31.95 5464.64 32.56 5464.61 33.37 5464.55 34.42 5464.38 34.8 5464.31
35.1 5464.28 36.22 5464.13 37.63 5463.93 39.07 5463.93 40.17 5464
40.5 5463.99 40.92 5463.96 41.92 5463.92 42.7 5463.9 43.35 5463.9
44.18 5463.84 44.78 5463.77 45.24 5463.74 46.2 5463.7 47.43 5463.71
47.78 5463.7 48.99 5463.73 49.05 5463.68 50.31 5463.74 50.69 5463.75
51.9 5463.77 52.85 5463.75 53.33 5463.71 53.94 5463.69 54.75 5463.62

56.18	5463.53	57.19	5463.52	57.92	5463.46	59.03	5463.27	60.45	5463.07
60.48	5463.07	61.88	5462.94	63.7	5462.81	64.73	5462.81	66.15	5462.79
66.95	5462.76	68.06	5462.76	69	5462.74	70.21	5462.76	70.43	5462.76
70.6	5462.78	71.85	5462.86	71.97	5462.79	73.13	5462.81	73.46	5462.8
74.7	5462.79	75.67	5462.68	76.13	5462.7	76.71	5462.75	77.55	5462.81
78.2	5462.87	78.98	5462.9	80.4	5462.9	80.74	5462.88	81.83	5462.75
83.22	5462.66	84.68	5462.54	86.1	5462.39	86.47	5462.38	87.53	5462.34
88.35	5462.29	88.95	5462.29	89.73	5462.34	90.38	5462.37	90.88	5462.38
91.8	5462.36	92.98	5462.34	93.42	5462.31	94.65	5462.1	94.96	5462.1
96.08	5461.93	96.24	5461.92	97.5	5461.79	98.49	5461.64	98.93	5461.58
99.49	5461.54	101.02	5461.52	101.78	5461.54	103.2	5461.6	103.56	5461.62
104.63	5461.71	106	5461.74	107.48	5461.64	108.63	5461.54	108.9	5461.52
109.25	5461.48	110.33	5461.42	111.17	5461.37	111.75	5461.35	112.5	5461.3
113.18	5461.32	113.7	5461.35	114.6	5461.39	115.76	5461.39	116.24	5461.37
117.45	5461.27	117.94	5461.24	118.77	5461.17	119.01	5461.17	120.3	5461.13
121.31	5461.18	121.73	5461.18	122.26	5461.2	123.15	5461.12	123.85	5461.1
124.58	5461.05	125.52	5461.01	126	5461.03	126.38	5461.02	127.43	5461.07
128.77	5461.01	129.43	5461	130.28	5461.08	131.7	5461.01	132.02	5460.98
133.99	5461	134.55	5460.99	135.09	5461.03	135.74	5461.11	136.42	5461.12
137.09	5461.21	137.78	5461.33	138.38	5461.35	139.09	5461.48	139.83	5461.6
140.34	5461.66	141.09	5461.78	141.88	5461.82	142.29	5461.85	143.09	5461.88
143.92	5461.93	144.25	5461.94	145.09	5461.99	145.97	5462	146.21	5461.97
147.09	5461.98	148.01	5461.94	148.16	5461.91	149.09	5461.87	151.09	5461.64
152.08	5461.5	152.11	5461.45	153.09	5461.3	154.04	5461.16	154.15	5461.07
155.09	5460.93	155.99	5460.89	156.2	5460.87	157.09	5460.82	157.95	5460.83
158.25	5460.8	159.09	5460.81	159.91	5460.76	160.29	5460.71	161.86	5460.59
162.34	5460.56	163.1	5460.5	163.82	5460.52	164.38	5460.57	165.1	5460.59
167.1	5460.56	167.73	5460.58	168.48	5460.58	169.69	5460.62	171.1	5460.67
171.65	5460.73	172.57	5460.9	173.1	5460.95	173.6	5461.11	174.61	5461.41
175.1	5461.56	175.56	5461.63	176.66	5461.86	177.52	5461.97	179.1	5462.21
179.48	5462.25	180.75	5462.34	181.1	5462.38	181.43	5462.36	182.8	5462.35
183.39	5462.31	185.35	5462.16	186.89	5462	187.3	5461.96	188.94	5461.71
189.26	5461.68	190.98	5461.56	191.1	5461.54	191.22	5461.55	193.1	5461.52
195.07	5461.67	195.1	5461.68	196.4	5461.68	197.1	5461.67	199.05	5461.69
199.1	5461.7	201	5461.41	201.1	5461.39	202.96	5461.23	203.26	5461.21
205.11	5461.1	205.3	5461.11	206.87	5461.15	207.35	5461.16	209.11	5461.22
209.4	5461.2	210.79	5461.17	211.11	5461.15	211.44	5461.16	212.74	5461.15
213.11	5461.15	213.49	5461.17	214.7	5461.12	215.11	5461.13	215.53	5461.13
216.66	5461.14	217.11	5461.14	217.58	5461.13	218.61	5461.21	219.11	5461.2
219.63	5461.22	220.57	5461.31	221.67	5461.35	222.53	5461.29	223.11	5461.31
223.72	5461.3	224.49	5461.27	225.11	5461.27	225.76	5461.28	226.44	5461.23
227.11	5461.25	227.81	5461.26	228.4	5461.26	229.11	5461.27	229.86	5461.24
230.36	5461.24	231.11	5461.21	231.9	5461.17	232.31	5461.21	233.11	5461.17
233.95	5461.16	234.27	5461.24	235.11	5461.23	235.99	5461.29	236.23	5461.3
238.04	5461.4	238.18	5461.39	239.11	5461.45	240.09	5461.52	240.14	5461.46
241.11	5461.53	243.12	5461.53	244.05	5461.52	244.18	5461.49	246.01	5461.47
246.22	5461.5	247.12	5461.49	247.97	5461.52	248.27	5461.52	249.12	5461.54
249.93	5461.57	250.32	5461.56	251.12	5461.59	251.88	5461.59	252.36	5461.58
253.12	5461.58	253.84	5461.52	254.41	5461.57	255.12	5461.51	255.8	5461.49
256.45	5461.5	257.12	5461.48	257.75	5461.58	258.5	5461.6	259.12	5461.7
261.12	5461.77	261.67	5461.78	262.59	5461.75	263.62	5461.79	264.64	5461.82
265.12	5461.83	265.58	5461.87	266.84	5462.03	268.15	5462.12	268.97	5462.16
270.21	5462.26	270.98	5462.3	271.69	5462.32	272.39	5462.33	273.81	5462.33
274.41	5462.32	276.11	5462.3	276.64	5462.31	277.13	5462.28	278.06	5462.26
279.06	5462.18	279.47	5462.18	280.89	5462.29	282.3	5462.33	282.57	5462.33
283.72	5462.39	284.97	5462.44	285.29	5462.47	286.55	5462.46	287.92	5462.58
289.02	5462.7	289.38	5462.78	290.87	5462.9	292.21	5463.04	293.44	5463.05
293.82	5463.05	295.04	5463.07	296.16	5463.12	296.77	5463.14	297.87	5463.21
298.88	5463.32	299.72	5463.38	300.7	5463.39	301.6	5463.44	302.12	5463.46
302.68	5463.47	303.53	5463.27	304.32	5463.28	304.95	5463.25	305.63	5463.32
306.36	5463.27	307.04	5463.27	307.78	5463.21	308.58	5463.29	309.19	5463.26
309.76	5463.24	310.61	5463.12	311.53	5463.23	312.48	5463.21	313.44	5463.08
314.48	5463.22	315.2	5463.27	316.27	5463.23	317.43	5463.38	317.69	5463.38
319.1	5463.25	320.64	5463.13	321.93	5462.78	323.34	5462.67	323.58	5462.67
324.76	5462.6	326.08	5462.73	326.29	5462.73	327.59	5462.63	328.8	5462.81
329.01	5462.8	329.24	5462.85	330.42	5462.9	331.52	5463.08	331.84	5463.06
332.19	5463.08	333.26	5463.04	334.23	5463.02	334.67	5462.97	335.14	5462.96
336.09	5462.93	337.5	5462.93	338.1	5462.92	338.92	5462.89	339.67	5462.9
340.33	5462.95	341.05	5463.02	341.75	5463.1	342.39	5463.13	343.16	5463.15
344	5463.22	344.58	5463.28	345.11	5463.35	345.99	5463.39	346.95	5463.45
347.41	5463.47	347.83	5463.5	348.83	5463.5	349.9	5463.56	350.55	5463.61
351.66	5463.73	353.07	5463.85	353.27	5463.84	354.49	5463.7	355.81	5463.72
355.99	5463.71	357.32	5463.75	358.14	5463.73	360.15	5463.76	361.43	5463.74
361.71	5463.74	362.98	5463.78	364.15	5463.79	364.39	5463.8	365.81	5463.91
366.87	5464	368.64	5464.12	369.59	5464.18	370.06	5464.19	370.57	5464.22
371.47	5464.25	372.31	5464.29	372.89	5464.31	373.52	5464.34	374.3	5464.34
376.47	5464.4	377.13	5464.41	377.75	5464.37	378.55	5464.33	379.96	5464.28
380.46	5464.22	381.38	5464.13	382.79	5464.03	383.18	5464.01	384.21	5463.99
385.32	5464.02	385.63	5464.06	385.9	5464.07	387.04	5464.16	388.28	5464.11
388.62	5464.08	389.87	5463.95	391.23	5463.89	391.34	5463.89	394.06	5463.99
395.53	5464.12	396.78	5464.2	398.36	5464.29	399.5	5464.31	399.78	5464.31
400.08	5464.33	401.19	5464.31	402.22	5464.28	403.03	5464.23	404.03	5464.14
404.94	5464.09	405.44	5464.07	405.99	5464.08	406.86	5464.15	407.66	5464.23
408.27	5464.28	408.94	5464.32	409.69	5464.37	411.1	5464.41	411.55	5464.41

Manning's n Values	num=	3
Sta n Val	Sta n Val	Sta n Val
0 .05 155.09	.035 173.1	.05
Bank Sta: Left	Right	Lengths: Left Channel
155.09	173.1	227.77 226.95
Ineffective Flow		226.26
	num=	2
		Coeff Contr. .1
		Expan. .3

[illegible]

337.34	5457.11	338.03	5457.18	338.47	5457.23	339.48	5457.44	340.48	5457.66
340.85	5457.73	341.05	5457.78	342.38	5458.19	343.82	5458.34	344.76	5458.29
345.27	5458.29	345.6	5458.27	346.72	5458.29	347.08	5458.33	347.97	5458.36
348.17	5458.4	348.47	5458.41	349.61	5458.46	350.35	5458.47	351.06	5458.5
352.18	5458.53	352.51	5458.55	352.72	5458.55	353.96	5458.59	355.1	5458.62
355.41	5458.66	355.89	5458.74	356.85	5458.91	357.47	5458.87	358.3	5458.84
359.59	5458.73	360.3	5458.72	361.2	5458.68	362.22	5458.66	362.64	5458.66
363.3	5458.7	364.09	5458.74	364.6	5458.76	365.54	5458.72	366.9	5458.67
367.01	5458.66	369.35	5458.71	370.72	5458.76	371.72	5458.79	373.51	5458.86
374.43	5458.89	375.67	5458.96	376.47	5458.96	377.12	5458.99	378.57	5459.19
380.02	5459.34	381.22	5459.5	381.47	5459.53	381.85	5459.54	382.91	5459.55
383.6	5459.58	384.36	5459.6	385.55	5459.73	385.81	5459.75	385.97	5459.78
386.72	5459.8	387.26	5459.85	388.35	5459.87	388.7	5459.91	389.26	5459.91
390.15	5459.93	390.72	5459.85	391.6	5459.8	392.97	5459.86	393.32	5459.88
394.5	5459.78	395.47	5459.88	395.94	5459.94	396.68	5459.97	397.39	5459.99
397.85	5460.01	398.84	5460.04	399.93	5459.99	400.39	5459.98	401.73	5459.87
403.18	5459.8	404.1	5459.79	404.97	5459.79	406.08	5459.86	406.53	5459.88
407.53	5459.94	408.97	5460.04	409.72	5460.11	410.42	5460.19	411.51	5460.26
412.1	5460.31	413.14	5460.35	413.32	5460.34	414.47	5460.39	414.76	5460.39
416.21	5460.42	416.85	5460.43	417.66	5460.45	418.93	5460.49	419.35	5460.5

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 135.07 .035 154.32 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 135.07 154.32 228.42 227.64 228.94 .1 .3

Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 128.28 5457.58 F
164.33 419.35 5457.07 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 4241

INPUT

Description:

Station	Elevation	Data	num=	490						
Sta	Elev		Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5455.11		9	5455.11	2.05	5455.22	2.67	5455.15	3.75	5455.05
4.6	5455.07	5.17	5455.06	5.89	5455.03	6.59	5454.99	8.02	5454.93	
9.44	5454.75	9.7	5454.73	10.86	5454.71	12.33	5454.72	13.71	5454.71	
14.8	5454.72	15.14	5454.71	15.56	5454.75	16.56	5454.78	17.35	5454.75	
17.98	5454.67	18.78	5454.62	19.41	5454.56	20.83	5454.49	22.25	5454.38	
23.68	5454.38	24.16	5454.33	25	5454.31	26.53	5454.23	27.95	5454.13	
29.37	5454.09	30.1	5454.09	30.8	5454.11	31.67	5454.11	32.22	5454.1	
32.66	5454.11	34.89	5454.2	35.21	5454.2	36.39	5454.07	36.49	5454.08	
37.92	5453.91	39.34	5453.83	40.31	5453.76	40.76	5453.76	42.19	5453.78	
42.86	5453.78	43.61	5453.79	45.41	5453.75	46.46	5453.71	47.79	5453.71	
47.96	5453.69	48.61	5453.68	49.31	5453.64	51.01	5453.65	52.15	5453.72	
53.06	5453.73	53.58	5453.71	54.23	5453.65	55	5453.62	55.61	5453.57	
56.42	5453.49	57.46	5453.5	59.27	5453.5	60.68	5453.37	60.83	5453.37	
62.12	5453.32	63.26	5453.34	63.9	5453.37	64.97	5453.37	65.81	5453.43	
66.39	5453.4	67.82	5453.4	68.36	5453.41	69.24	5453.39	70.91	5453.4	
72.09	5453.39	73.06	5453.45	73.57	5453.46	74.93	5453.5	76.01	5453.45	
76.79	5453.44	77.78	5453.45	78.56	5453.42	79.21	5453.41	80.02	5453.34	
80.63	5453.33	81.11	5453.31	82.05	5453.34	83.66	5453.35	84.9	5453.32	
85.28	5453.29	87.75	5453.21	88.77	5453.2	89.17	5453.17	89.68	5453.15	
90.6	5453.08	91.32	5453.06	92.02	5453.02	92.91	5452.99	93.44	5452.95	
93.87	5452.93	94.87	5452.86	96.13	5452.84	96.42	5452.83	98.97	5452.57	
100.56	5452.5	101.52	5452.54	102.58	5452.6	103.41	5452.62	104.07	5452.58	
104.83	5452.52	106.26	5452.42	106.62	5452.43	107.68	5452.41	108.58	5452.38	
109.46	5452.38	109.72	5452.39	110.59	5452.39	112.59	5452.34	113.99	5452.24	
114.6	5452.19	116.13	5452.17	116.6	5452.17	118.9	5452.07	120.4	5452.06	
120.79	5452.04	122.53	5451.97	122.61	5451.96	124.57	5451.99	124.61	5451.98	
126.46	5451.92	126.8	5451.9	128.34	5451.76	128.94	5451.76	130.23	5451.61	
130.63	5451.6	131.07	5451.63	132.12	5451.78	132.63	5451.8	134.01	5451.73	
134.63	5451.69	135.34	5451.66	135.9	5451.62	137.48	5451.53	137.78	5451.61	
138.64	5451.54	139.61	5451.73	139.67	5451.63	140.64	5451.82	141.56	5451.77	
141.74	5451.79	142.65	5451.74	143.45	5451.64	143.88	5451.57	144.65	5451.47	
145.33	5451.41	146.01	5451.36	146.66	5451.3	147.22	5451.32	148.15	5451.32	
148.66	5451.34	149.11	5451.39	150.28	5451.49	151	5451.56	152.42	5451.73	
152.89	5451.75	154.77	5451.64	156.67	5451.43	158.55	5451.48	158.82	5451.52	
160.68	5451.85	160.96	5451.86	162.33	5451.95	162.69	5451.96	163.09	5451.91	
164.21	5451.82	164.69	5451.77	166.1	5451.79	166.69	5451.81	167.36	5451.89	
167.99	5451.89	168.7	5451.98	169.5	5452.1	169.88	5452.08	170.7	5452.2	
171.63	5452.28	171.77	5452.33	172.7	5452.41	173.65	5452.48	173.77	5452.44	
174.71	5452.51	175.54	5452.51	175.9	5452.44	176.71	5452.44	177.43	5452.46	
178.04	5452.54	178.72	5452.56	179.32	5452.54	180.17	5452.68	180.72	5452.67	
181.21	5452.68	182.3	5452.67	183.09	5452.67	184.44	5452.55	184.98	5452.55	
186.57	5452.37	188.71	5452.23	190.84	5452.02	192.53	5451.83	192.98	5451.81	
194.42	5451.77	194.75	5451.75	195.11	5451.77	196.75	5451.84	197.25	5451.85	
198.2	5451.85	198.75	5451.87	199.38	5451.85	200.09	5451.86	200.76	5451.84	
202.76	5451.92	203.65	5452.02	203.86	5452.07	204.76	5452.17	205.75	5452.47	
205.79	5452.34	206.77	5452.63	207.64	5452.73	207.92	5452.75	208.77	5452.85	
209.52	5452.89	210.06	5452.98	210.78	5453.02	211.41	5453.02	212.19	5453.13	
212.78	5453.14	213.3	5453.03	214.33	5452.97	214.78	5452.87	215.19	5452.8	
216.46	5452.5	216.79	5452.44	218.6	5452.01	218.79	5451.96	220.73	5451.75	
220.79	5451.74	221.79	5451.7	222.8	5451.65	224.63	5451.42	225	5451.38	

153.13	5450.51	154.04	5450.46	155.03	5450.34	156.87	5450.28	157.99	5450.2
158.56	5450.22	159.7	5450.22	160.95	5450.3	162.53	5450.28	163.98	5450.32
164.86	5450.23	165.36	5450.22	166.86	5450.03	169.82	5449.81	171.02	5449.77
172.44	5449.75	173.86	5449.85	177.55	5449.78	178.1	5449.76	178.7	5449.77
179.52	5449.73	180.93	5449.63	181.66	5449.55	182.98	5449.5	185.18	5449.54
186.6	5449.53	189.43	5449.43	190.54	5449.45	192.26	5449.45	193.83	5449.4
195.09	5449.42	196.55	5449.41	197.54	5449.39	197.92	5449.31	199.26	5449.35
200.75	5449.38	202.38	5449.44	204.69	5449.39	205.34	5449.35	206.41	5449.24
207.4	5449.21	209.24	5449.1	211.25	5449.06	212.83	5449	214.91	5448.99
216.32	5449.01	217.17	5449.06	219.15	5449.05	220.13	5449	223.09	5448.77
224.81	5448.68	226.05	5448.56	227.65	5448.56	229.01	5448.62	230.48	5448.72
231.82	5448.78	233.31	5448.63	234.72	5448.55	237.89	5448.41	239.96	5448.41
240.85	5448.45	243.22	5448.59	244.63	5448.58	247.46	5448.47	248.88	5448.5
250.29	5448.62	250.82	5448.63	251.71	5448.61	252.68	5448.64	254.54	5448.62
257.37	5448.96	258.6	5449.07	258.96	5449.12	260.2	5449.23	261.56	5449.3
262.88	5449.29	263.03	5449.32	264.52	5449.27	265.87	5449.33	267.28	5449.33
268.7	5449.4	270.11	5449.42	271.53	5449.51	273.4	5449.58	275.24	5449.63
277.19	5449.72	278.61	5449.7	280.02	5449.65	281.44	5449.74	282.28	5449.77
283.38	5449.78	284.27	5449.72	285.24	5449.76	286.09	5449.77	287.1	5449.76
288.2	5449.82	289.93	5449.73	291.52	5449.68	292.76	5449.67	294.11	5449.64
295.56	5449.65	295.59	5449.58	296.95	5449.66	298.42	5449.77	300.03	5449.8
302.99	5449.67	304.09	5449.67	305.5	5449.6	305.95	5449.6	307.8	5449.71
308.33	5449.7	308.91	5449.77	309.75	5449.8	310.51	5449.78	311.16	5449.72
311.87	5449.77	312.58	5449.78	313.99	5449.89	315.41	5449.93	316.83	5450.02
318.24	5450.19	318.66	5450.21	319.66	5450.31	320.75	5450.45	321.37	5450.5
322.49	5450.56	323.71	5450.81	325.32	5450.79	326.67	5450.61	329.63	5450.15
332.22	5449.89	332.58	5449.84	333.81	5449.73	334.94	5449.57	335.54	5449.51
338.5	5449.43	339.47	5449.47	340.36	5449.43	341.46	5449.42	342.3	5449.45
345.14	5449.26	346.55	5449.25	348.5	5449.3	352.21	5449.51	353.3	5449.43
353.93	5449.35	355.04	5449.17	356.26	5448.92	356.64	5448.88	357.88	5448.84
359.22	5448.86	360.71	5448.98	360.9	5448.95	362.18	5449.02	363.54	5448.99
365.14	5448.87	366.37	5448.84	367.5	5448.96	369.2	5448.93	370.21	5448.95
371.06	5449	372.03	5449.09	373.45	5449.2	374.01	5449.26	374.86	5449.26
376.28	5449.16	376.97	5449.07	378.35	5448.82	379.93	5448.63	381.07	5448.65
383.36	5448.79	384.77	5448.86	386.19	5448.87	388.81	5448.71	390.43	5448.55
391.92	5448.45	394.63	5448.59	396.1	5448.58	397.51	5448.66	398.93	5448.67
400.65	5448.77	401.76	5448.71	403.17	5448.66	403.61	5448.67	405.49	5448.65
406.57	5448.59	409.53	5448.63	410.92	5448.69	411.67	5448.75	413.63	5448.77
414.5	5448.81	415.44	5448.83	415.91	5448.82	417.33	5448.67	418.4	5448.48
419.06	5448.44	420.16	5448.41	421.36	5448.41	421.77	5448.44	422.99	5448.61
424.32	5448.66	425.82	5448.83	427.28	5448.96	430.16	5449.02	431.21	5449.08
434.04	5449.2	434.78	5449.26	435.9	5449.3	437.86	5449.46	438.34	5449.48
439.4	5449.48	439.48	5449.51	440.5	5449.52	440.94	5449.49	442.04	5449.48
442.48	5449.45	444.8	5449.41	445.56	5449.43	446.95	5449.5	448.64	5449.6
449.11	5449.64	451.26	5449.72	453.41	5449.75	455.56	5449.81	456.34	5449.85
459.42	5449.93	459.87	5449.91	460.91	5450.01	460.96	5449.94	462.02	5450.07
462.5	5450.11	464.17	5450.29	466.32	5450.36	468.05	5450.37	469.12	5450.39
470.2	5450.43	471.62	5450.43	471.74	5450.45	472.78	5450.44	474.54	5450.5
476.36	5450.6	477.9	5450.67	479.44	5450.77	480.98	5450.89	481.39	5450.86
483.54	5450.83	485.37	5450.83	485.6	5450.82	487.84	5450.81	488.68	5450.76
489.48	5450.75	490.22	5450.71	492.15	5450.72	494.3	5450.78	496.38	5450.82
497.92	5450.76	499.46	5450.72	500.76	5450.65	501.61	5450.65	503.76	5450.81
504.08	5450.87	505.06	5450.94	505.62	5451.05	507.16	5451.18	508.7	5451.24
510.24	5451.25	510.91	5451.21	512.44	5451.23	514.86	5451.24	515.82	5451.28
516.4	5451.24	517.97	5451.24	519.48	5451.33	521.02	5451.35	521.62	5451.38
522.56	5451.38	523.27	5451.45	524.43	5451.53	526.58	5451.59	528.72	5451.63
530.89	5451.51	531.8	5451.54	532.34	5451.6	533.04	5451.62	534.1	5451.68
535.91	5451.82	536.42	5451.83	537.96	5451.94	539.5	5452	541.04	5452.13
542.58	5452.19	543.05	5452.25	544.12	5452.3	544.93	5452.37	545.95	5452.43
548.1	5452.66	548.74	5452.75	550.35	5452.88	551.82	5452.95	552.41	5452.92
553.36	5452.96	553.77	5452.91	554.9	5452.94	555.76	5453.04	557.34	5453.28
557.98	5453.41	558.87	5453.54	560.91	5453.64	562.6	5453.8	563.17	5453.89
564.14	5454.01	564.48	5454.01	565.68	5454.14	567.47	5454.23	568.05	5454.29
569.63	5454.42	572.01	5454.57	573.93	5454.64	574.92	5454.7	576.08	5454.75
576.46	5454.73	578.23	5454.59	578.77	5454.5	579.54	5454.42	582.54	5453.8
584.17	5453.65	584.69	5453.59	586.84	5453.68	590.33	5453.86	591.15	5453.93
594.95	5454.83	595.45	5455.01	596.49	5455.14	596.63	5455.19	597.6	5455.32
599.09	5455.32	599.57	5455.27	601.91	5455.21	605.73	5455.01	606.21	5455.01
607.27	5454.93	607.34	5454.95	608.36	5454.88	610.52	5454.96	612.67	5455.01
613.43	5454.99	614.97	5454.92	616.97	5454.89	619.13	5455.06	620.75	5455.05
621.28	5455.03	622.67	5454.88	623.43	5454.77	625.75	5454.81	626.16	5454.84
627.29	5454.84	627.73	5454.8	628.77	5454.79	628.83	5454.71	629.89	5454.74
631.58	5454.57	632.34	5454.53	633.45	5454.39	634.19	5454.37	634.99	5454.39
635.91	5454.39	636.99	5454.43	638.5	5454.53	639.49	5454.62	639.61	5454.59
641.15	5454.74	642.41	5454.75	644.23	5454.66	646.63	5454.48	647.31	5454.44
649.26	5454.38	651.41	5454.22	651.93	5454.24	653.56	5454.38	653.98	5454.39

Manning's n	Values	num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	352.21	.035	440.5	.05
Bank Sta:	Left	Right	Lengths:	Left Channel	Right
	352.21	440.5		165.33	164.28
Ineffective Flow			num=	1	
Sta L	Sta R	Elev	Permanent		
0	323.71	5450.81	F		

CROSS SECTION

RIVER: Rainbow Trib
 REACH: North-DS-0 RS: 3947

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5453.96	1.38	5453.91	5.7	5453.78	6.48	5453.77	8.58	5453.67
9.98	5453.63	11.45	5453.62	12.89	5453.67	14.33	5453.66	15.77	5453.68
17.28	5453.67	19.71	5453.81	21.52	5453.96	22.13	5453.99	24.56	5453.97
25.41	5453.93	25.84	5453.95	27.28	5453.86	29.41	5453.79	31.24	5453.75
33.03	5453.67	34.26	5453.48	35.91	5453.37	37.35	5453.16	38.32	5453.09
39.11	5453.07	43.96	5453.15	44.54	5453.14	46.38	5453.2	48.93	5453.36
50.3	5453.37	51.73	5453.32	52.46	5453.27	56	5453.2	57.49	5453.14
60.37	5452.94	61.8	5452.89	64.68	5452.91	66.61	5452.84	69	5452.81
73.68	5452.82	76.19	5452.81	79.07	5452.92	79.41	5452.88	82.76	5452.95
84.82	5452.91	87.83	5453.06	90.03	5453.02	90.58	5453.06	92.01	5453.1
94.89	5453.11	96.33	5453.13	97.77	5453.01	99.21	5453.03	101.98	5453
103.52	5452.86	107.01	5452.71	109.43	5452.45	111.86	5452	114.28	5451.87
116.12	5451.89	117.91	5451.95	119.13	5451.92	122.23	5451.73	123.98	5451.66
126.41	5451.65	127.98	5451.68	129.42	5451.62	130.86	5451.53	133.68	5451.32
136.61	5451.22	138.53	5451.27	141.13	5451.32	142.37	5451.37	143.38	5451.33
145.81	5451.34	148.84	5451.31	149.56	5451.34	151.49	5451.3	152.44	5451.31
153.87	5451.39	159.63	5451.34	161.07	5451.26	162.78	5451.25	163.94	5451.14
164.27	5451.15	165.64	5451.06	166.82	5451.04	168.26	5451.05	169.7	5451.02
171.14	5451.02	172.48	5451.06	174.01	5451.07	174.91	5451.1	176.89	5451.04
178.33	5451.05	179.77	5450.94	181.21	5451.04	184.08	5451.17	184.61	5451.18
188.4	5451.37	189.84	5451.35	191.28	5451.26	194.31	5451.33	197.03	5451.3
198.47	5451.33	199.91	5451.24	201.58	5451.2	202.79	5451.11	204.54	5451.07
205.66	5451.02	207.1	5451.01	208.08	5451.08	208.86	5451.09	209.98	5451.04
211.62	5450.9	212.86	5450.75	214.3	5450.71	215.15	5450.72	217.17	5450.88
218.69	5450.97	220.05	5451.13	221.49	5451.35	222.23	5451.5	224.37	5452.1
225.76	5452.41	227.24	5452.6	228.68	5452.36	230.12	5451.98	230.68	5451.79
231.56	5451.59	233.11	5451.1	235.53	5450.58	237.31	5450.46	237.96	5450.48
239.91	5450.6	240.38	5450.6	241.41	5450.49	241.63	5450.58	242.81	5450.39
243.45	5450.34	244.51	5450.2	245.23	5450.06	245.94	5449.81	247.66	5449.47
248.82	5449.27	249.13	5449.28	250.52	5449.1	253.14	5448.86	254.06	5448.81
257.36	5448.73	259.78	5448.75	263.21	5448.71	264.67	5448.64	267.06	5448.79
268.2	5448.93	268.96	5448.96	271.74	5448.96	273.28	5448.88	275.28	5448.68
277.59	5448.62	280.47	5448.61	281.61	5448.64	284.03	5448.47	285.89	5448.41
286.46	5448.43	288.88	5448.59	291.98	5448.68	292.96	5448.76	293.73	5448.77
296.5	5448.67	299.17	5448.44	301.01	5448.36	302.05	5448.28	304.93	5448.18
306.37	5448.2	308.28	5448.28	309.24	5448.34	310.84	5448.26	313.56	5447.96
315	5447.94	316.44	5447.96	318.56	5447.94	319.31	5447.83	320.75	5447.79
323.63	5447.8	325.07	5447.77	326.27	5447.65	326.51	5447.67	327.68	5447.52
329.38	5447.42	330.82	5447.37	332.26	5447.35	333.7	5447.27	333.98	5447.1
335.4	5446.9	337.38	5446.85	338.01	5446.88	339.45	5446.85	339.81	5446.88
342.33	5446.98	343.77	5446.88	346.01	5446.92	347.08	5446.86	348.08	5446.69
350.96	5446.45	351.93	5446.35	354.36	5446.18	355.28	5446.19	356.62	5446.07
358.15	5446.05	360.16	5446.1	361.03	5446.18	362.47	5446.23	363.91	5446.23
365.35	5446.17	367.23	5446.15	368.22	5446.08	368.91	5446.09	369.66	5446.04
370.77	5446.07	372.54	5446.03	375.42	5446.02	377.84	5446.06	379.73	5446.19
380.27	5446.19	382.61	5446.36	384.92	5446.38	385.88	5446.36	386.93	5446.38
388.45	5446.5	390.73	5446.46	393.15	5446.38	394.12	5446.29	395.7	5446.18
397	5446.15	398	5446.05	399.06	5446.04	400.43	5446.13	401.31	5446.23
402.75	5446.29	404.19	5446.24	406.14	5446.22	407.07	5446.19	409.67	5446.22
411.38	5446.15	414.26	5446.11	414.98	5446.13	417.4	5446.15	420.28	5446.12
421.45	5446.16	422.89	5446.24	424.68	5446.19	427.21	5446	428.65	5445.82
430.08	5445.68	431.52	5445.64	431.95	5445.67	434.43	5445.66	436.8	5445.93
437.74	5446.01	439.23	5446.08	440.15	5446.15	441.5	5446.19	444.08	5446.17
446.5	5446.18	447.35	5446.23	448.93	5446.37	452.11	5446.45	453.78	5446.48
454.54	5446.47	456.2	5446.56	458.63	5446.64	459.19	5446.63	461.73	5446.75
462.72	5446.84	464.61	5446.87	466.26	5446.94	467.49	5446.87	468.93	5446.71
471.8	5446.62	472.84	5446.68	473.33	5446.67	474.68	5446.54	476.12	5446.57
477.56	5446.66	480.41	5446.72	481.87	5446.72	483.94	5446.79	485.3	5446.77
486.19	5446.73	489.26	5446.77	491.74	5446.78	493.46	5446.73	495.67	5446.91
497.57	5447.18	499.4	5447.19	501.86	5447.09	503.22	5447.01	503.96	5447.04
505.13	5447.01	505.58	5447.04	507.58	5447.08	508.16	5447.07	508.96	5446.99
510.27	5447.01	510.87	5446.89	511.58	5446.93	512.37	5446.92	512.78	5447.06
514.47	5447.03	514.7	5447.08	515.59	5447.07	518.52	5447.15	518.67	5447.19
520.43	5447.26	521.59	5447.33	522.87	5447.44	524.26	5447.53	524.97	5447.5
526.17	5447.57	527.6	5447.62	528.08	5447.6	530	5447.38	531.27	5447.35
531.91	5447.28	533.61	5447.29	537.57	5447.49	541.77	5447.49	545.3	5447.43
545.98	5447.44	547.21	5447.51	549.62	5447.54	551.63	5447.61	553.63	5447.78
554.86	5447.83	556.48	5447.82	556.77	5447.76	558.58	5447.73	559.64	5447.68
561.64	5447.66	563.64	5447.7	566.33	5447.83	566.98	5447.83	568.25	5447.91
569.08	5447.86	569.65	5447.9	571.65	5448.13	573.65	5448.24	573.99	5448.23
575.38	5448.29	575.9	5448.28	577.81	5448.31	579.66	5448.37	581.66	5448.4
583.55	5448.38	585.66	5448.41	587.37	5448.52	587.99	5448.53	589.29	5448.63
589.67	5448.62	591.67	5448.74	593.67	5448.76	594.29	5448.8	595.02	5448.77
595.68	5448.81	597.68	5448.79	598.49	5448.76	598.85	5448.83	599.68	5448.79
600.59	5448.79	600.76	5448.83	601.68	5448.83	603.68	5448.91	605.69	5449.04
607.69	5449.36	608.41	5449.38	609	5449.51	610.32	5449.53	611.1	5449.58
612.24	5449.57	614.15	5449.6	615.3	5449.55	617.4	5449.6	619.89	5449.71
621.6	5449.83	625.8	5449.88	629.45	5450.06	631.36	5450.14	633.72	5450.31
635.72	5450.41	638.4	5450.39	639.01	5450.35	640.92	5450.35	645.73	5450.47
646.66	5450.47	646.81	5450.52	648.58	5450.54	648.91	5450.59	650.49	5450.65
651.74	5450.75	654.31	5450.9	655.21	5450.85	655.74	5450.88	660.05	5450.86
661.96	5450.99	663.61	5450.94	665.75	5451.03	667.75	5451.25	669.61	5451.35
671.76	5451.36	674.12	5451.42	676.22	5451.49	678.32	5451.46	679.77	5451.36
680.42	5451.4	681.09	5451.5	682.52	5451.6	683	5451.72	684.62	5451.82
684.91	5451.79	685.77	5451.84	688.82	5452.06	690.65	5452.21	692.56	5452.4
693.02	5452.47	694.48	5452.6	695.12	5452.69	696.39	5452.8	697.22	5452.93
698.3	5453.04	699.32	5453.21	702.13	5453.61	703.79	5453.83	705.62	5454.12

707.8	5454.28	709.28	5454.29	711.69	5454.28	713.6	5454.48	714.03	5454.55
715.51	5454.61	719.81	5455.02	720.33	5455.04	721.25	5455.2	722.43	5455.24
723.16	5455.3	725.82	5455.38	728.73	5455.53	728.9	5455.56	732.73	5455.69
732.93	5455.67	734.64	5455.74	735.03	5455.71	736.55	5455.78	737.13	5455.7
737.83	5455.73	738.47	5455.69	739.24	5455.56	740.38	5455.47	741.34	5455.46
744.2	5455.18	745.54	5455.01	746.12	5454.97	747.64	5455	749.94	5454.92
752	5454.95	753.94	5454.92	756.04	5455.01	757.59	5455.1	759.5	5455.04
760.24	5455.06	761.42	5455.02	762.34	5455.03	764.44	5454.98	765.24	5454.98
767.86	5454.91	768.64	5454.93	769.07	5454.89	770.74	5454.94	773.87	5454.93
775.87	5454.96	777.05	5454.9	778.63	5454.87	779.15	5454.83	780.54	5454.82
781.25	5454.95	782.45	5454.94	783.35	5455.05	783.88	5455.05	785.51	5454.95

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	422.89	.035	441.5	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
422.89	441.5	158.32	145.63	140.83		.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	227.24	5452.6	F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 3802

INPUT

Description:

Station	Elevation	Data	num= 490						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5449.68	1.25	5449.65	1.47	5449.67	2.49	5449.63	4.23	5449.45
4.66	5449.42	6.06	5449.15	6.82	5449.06	7.59	5448.92	8.66	5448.83
8.99	5448.78	10.65	5448.81	13.71	5448.81	15.24	5448.79	16.06	5448.76
16.77	5448.77	18.3	5448.71	21.36	5448.68	21.98	5448.72	22.89	5448.72
23.47	5448.68	24.15	5448.67	25.1	5448.58	26.31	5448.43	27.17	5448.39
27.49	5448.3	28.48	5448.28	30.31	5448.21	32.08	5448.17	33.61	5448.16
34.97	5448.17	35.53	5448.14	36.67	5447.99	37.14	5448.02	39.3	5448.11
39.73	5448.11	42.79	5448.22	43.64	5448.27	44.32	5448.27	45.96	5448.3
47.38	5448.23	48.91	5448.07	49.39	5448.05	50.13	5447.98	51.17	5447.98
52.3	5447.96	53.5	5447.96	55.03	5447.99	56.8	5447.99	59.62	5447.89
60.5	5447.91	61.15	5447.9	62.68	5447.92	65.29	5447.97	65.74	5447.95
67.46	5447.82	69.62	5447.78	72.04	5447.85	73.95	5447.88	74.92	5447.82
75.31	5447.84	76.12	5447.8	77.25	5447.68	78.28	5447.55	80.45	5447.42
82.72	5447.43	84.1	5447.41	85.63	5447.34	86.42	5447.37	88.69	5447.34
90.13	5447.26	91.28	5447.21	93.28	5447.14	95.61	5446.98	96.34	5446.97
97.53	5447	97.87	5446.99	99.4	5447.03	99.94	5447.03	100.93	5446.94
101.24	5446.94	102.11	5446.86	104.27	5446.85	105.53	5446.9	106.44	5446.91
107.06	5446.94	108.6	5446.92	110.77	5446.8	112.93	5446.81	114.71	5446.85
117.26	5446.84	119.75	5446.87	120.83	5446.92	121.6	5446.91	122.36	5446.85
124.19	5446.77	125.42	5446.79	126.95	5446.79	127.16	5446.76	128.09	5446.76
130.26	5446.64	130.86	5446.59	131.54	5446.63	132.42	5446.53	134.56	5446.44
136.13	5446.47	137.66	5446.46	138.27	5446.43	139.19	5446.42	139.84	5446.37
141.09	5446.32	141.97	5446.3	142.25	5446.35	143.25	5446.31	145.06	5446.36
145.42	5446.38	146.84	5446.4	148.37	5446.35	149.38	5446.3	151.43	5446.27
151.91	5446.24	152.96	5446.28	153.08	5446.33	154.08	5446.39	155.49	5446.35
156.78	5446.3	157.55	5446.23	160.7	5446.19	162.14	5446.13	163.67	5446.13
165.92	5446.11	166.73	5446.12	167.89	5446.09	168.26	5446.1	168.89	5446.07
169.98	5446.08	171.73	5446.03	173.68	5446.05	175.24	5446.11	176.07	5446.13
176.99	5446.11	178.47	5446.14	178.74	5446.11	180.5	5446.15	180.86	5446.18
182.25	5446.22	183.26	5446.17	184	5446.19	185.71	5446.19	187.5	5446.26
189.26	5446.28	190.44	5446.31	191.01	5446.29	191.78	5446.3	192.76	5446.29
192.84	5446.27	194.51	5446.23	195.23	5446.18	197.63	5446.06	198.02	5446.03
200.02	5446.04	201.52	5446.15	203.28	5446.13	204.81	5446.06	205.03	5446.02
206.78	5445.94	207.21	5445.95	207.97	5445.92	208.53	5445.96	209.6	5445.96
210.28	5445.98	212.14	5445.8	213.79	5445.62	216.79	5445.52	217.29	5445.4
218.09	5445.38	219.05	5445.32	220.12	5445.28	220.8	5445.33	221.58	5445.29
222.14	5445.32	222.55	5445.31	224.16	5445.22	226.06	5445.06	227.81	5445.02
228.21	5445.05	228.77	5445.02	229.56	5444.91	231.16	5444.82	231.31	5444.78
232.26	5444.72	233.56	5444.72	234.82	5444.75	235.95	5444.88	236.57	5444.91
238.25	5445.04	240.07	5445.08	240.74	5445.02	241.83	5444.79	242.38	5444.72
244.4	5444.68	245.33	5444.74	245.53	5444.73	248.45	5444.86	250.59	5444.74
252.5	5444.61	254.52	5444.73	255.84	5444.75	256.55	5444.74	257.51	5444.7
257.6	5444.75	259.35	5444.66	259.9	5444.65	261.1	5444.59	262.3	5444.56
262.85	5444.53	264.37	5444.52	266.36	5444.53	267.09	5444.51	268.69	5444.5
269.48	5444.53	269.86	5444.52	272.74	5444.64	274.76	5444.62	276.67	5444.56
279.06	5444.55	280.38	5444.63	281.46	5444.64	282.13	5444.61	282.86	5444.63
283.85	5444.73	286.9	5444.97	288.64	5445.04	289.14	5445.04	291.04	5445.1
293.43	5444.93	294.39	5444.91	295	5444.87	295.83	5444.89	296.15	5444.86
297.9	5444.91	299.65	5444.99	300.62	5444.98	301.4	5445	303.01	5444.92
304.91	5444.91	305.41	5444.89	307.14	5444.87	307.8	5444.89	308.41	5444.85
310.17	5444.94	311.19	5445.03	313.22	5445.01	313.67	5444.99	315.42	5444.98
317.38	5445.08	318.93	5445.18	321.31	5445.23	324.18	5445.18	324.57	5445.12
325.36	5445.1	325.94	5445.11	326.96	5445.09	327.69	5445.1	329.36	5445.05
331.19	5445.07	331.75	5445.11	332.95	5445.16	333.45	5445.21	335.48	5445.29
337.5	5445.32	338.2	5445.3	339.95	5445.28	341.34	5445.22	341.71	5445.22
343.46	5445.15	343.73	5445.15	345.21	5445.08	346.96	5445.1	348.52	5445.17
348.72	5445.23	350.47	5445.31	350.92	5445.31	351.67	5445.35	353.31	5445.38
353.97	5445.38	355.71	5445.45	357.48	5445.47	358.1	5445.49	359.23	5445.58
359.76	5445.59	361.79	5445.69	362.89	5445.73	365.29	5445.75	367.99	5445.76
370.08	5445.57	371.5	5445.53	371.91	5445.5	373.93	5445.48	374.87	5445.56

377.98	5445.79	378.5	5445.8	380	5445.78	382.01	5445.94	383.76	5446.13
384.45	5446.15	385.51	5446.21	386.07	5446.22	388.1	5446.11	389.24	5446.16
390.77	5446.21	391.63	5446.26	392.52	5446.28	394.03	5446.34	396.03	5446.3
397.78	5446.33	398.82	5446.39	399.53	5446.38	400.24	5446.42	401.21	5446.44
401.28	5446.46	403.04	5446.53	403.61	5446.49	404.79	5446.53	406	5446.52
406.54	5446.53	408.01	5446.52	410.05	5446.55	410.79	5446.55	411.8	5446.58
413.19	5446.56	413.55	5446.62	415.3	5446.54	415.58	5446.48	416.43	5446.43
418.46	5446.24	418.81	5446.25	420.48	5446.38	422.5	5446.62	424.06	5446.67
425.16	5446.72	425.82	5446.71	426.55	5446.75	427.56	5446.75	428.58	5446.78
429.32	5446.82	429.95	5446.77	431.07	5446.8	432.83	5446.78	434.58	5446.81
436.33	5446.92	437.14	5446.93	438.08	5447.06	439.53	5447.05	439.83	5447.12
441.59	5447.09	441.93	5447.11	443.34	5447.1	444.32	5447.14	445.09	5447.14
447.18	5447.2	449.11	5447.28	451.51	5447.43	452.86	5447.5	453.85	5447.5
453.9	5447.54	455.61	5447.55	456.3	5447.59	458.69	5447.65	460.86	5447.74
462.98	5447.73	465.01	5447.77	465.88	5447.87	466.12	5447.86	467.03	5447.96
467.87	5448.03	468.27	5448.02	469.62	5448.11	470.67	5448.09	471.38	5448.11
475.46	5448.16	476.63	5448.12	477.86	5448.12	478.39	5448.06	479.17	5448.06
481.2	5448.11	481.89	5448.15	482.65	5448.07	483.64	5448.12	485.25	5448.16
487.27	5448.31	488.9	5448.35	489.83	5448.35	490.65	5448.32	492.23	5448.35
492.4	5448.29	494.16	5448.33	494.62	5448.41	495.36	5448.43	495.91	5448.47
497.02	5448.5	499.41	5448.63	501.17	5448.58	502.92	5448.65	503.46	5448.7
504.2	5448.73	504.67	5448.78	505.48	5448.81	507.51	5448.77	508.17	5448.78
509.93	5448.77	511.39	5448.79	513.78	5448.79	515.18	5448.81	515.6	5448.8
517.63	5448.82	519.65	5448.91	520.44	5448.9	520.97	5448.93	522.19	5448.91
523.95	5448.91	525.72	5448.97	527.45	5449.12	528.15	5449.14	529.2	5449.22
529.77	5449.22	531.79	5449.36	532.71	5449.38	533.82	5449.43	534.46	5449.41
535.34	5449.45	537.73	5449.46	540.13	5449.51	541.47	5449.53	542.52	5449.6
543.22	5449.72	543.94	5449.77	544.92	5449.79	544.97	5449.81	546.72	5449.83
547.31	5449.82	548.48	5449.83	550.23	5449.78	551.65	5449.68	552.03	5449.67
553.73	5449.76	554.5	5449.79	555.49	5449.91	556.89	5450	557.24	5450
558.1	5450.06	558.99	5450.1	559.29	5450.08	560.13	5450.12	560.74	5450.09
562.5	5450.09	564.08	5450.1	566.2	5450.32	568.22	5450.48	570.25	5450.6
571.26	5450.63	573.01	5450.64	574.3	5450.63	574.76	5450.65	576.05	5450.86
577.77	5450.93	580.02	5450.99	580.37	5451.03	580.84	5451.03	581.77	5451.11
582.39	5451.11	584.42	5451.03	585.28	5451.04	586.44	5451.09	587.03	5451.07
588.03	5451.08	588.78	5451.07	592.28	5451	592.82	5451.02	594.04	5451.14
595.21	5451.21	595.79	5451.29	596.56	5451.34	597.54	5451.35	597.61	5451.38
599.29	5451.41	600.01	5451.39	600.61	5451.4	601.05	5451.47	602.24	5451.47

Manning's n Values num= 3
Sta n Val Sta n Val
0 .05 240.07 .035 291.04 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
240.07 291.04 128.85 141.53 147.89 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 240.07 5445.08 F
291.04 602.24 5445.1 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 3660

INPUT
Description:
Station Elevation Data num= 490

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5449.16	.62	5449.13	2.66	5449.15	3.64	5449.22	3.7	5449.16
4.69	5449.24	6.16	5449.28	8.68	5449.3	10.53	5449.24	12.24	5449.23
12.84	5449.25	14.87	5449.26	15.66	5449.3	16.23	5449.38	17.37	5449.48
18.75	5449.71	19.08	5449.73	20.79	5449.68	21.27	5449.62	22.5	5449.55
23.02	5449.47	25.06	5449.29	25.91	5449.19	26.31	5449.24	27.09	5449.16
29.13	5449.22	33.2	5449.49	35.24	5449.42	36.17	5449.44	36.38	5449.38
39.31	5449.45	39.59	5449.43	41.35	5449.42	43.38	5449.27	45.42	5449.21
46.42	5449.14	46.46	5449.07	48.13	5448.95	49.49	5448.88	51.67	5448.88
54.01	5448.91	55.6	5448.86	56.53	5448.81	56.68	5448.84	57.64	5448.78
59.67	5448.7	61.71	5448.66	63.51	5448.42	65.78	5448.18	66.61	5448.26
66.93	5448.17	68.64	5448.38	69.12	5448.38	70.35	5448.5	72.06	5448.5
74.16	5448.43	75.48	5448.25	75.96	5448.21	77.19	5448.19	78	5448.21
80.6	5448.22	82.31	5448.19	85.73	5448.08	88.18	5448.05	90.22	5448.11
90.86	5448.06	92.57	5448	94.29	5447.88	95.99	5447.88	98.36	5447.75
101.11	5447.73	101.87	5447.78	102.82	5447.77	104.39	5447.64	106.24	5447.52
106.51	5447.48	107.95	5447.45	109.42	5447.47	109.66	5447.45	111.37	5447.5
114.65	5447.64	116.49	5447.67	119.91	5447.8	121.62	5447.84	122.02	5447.81
123.33	5447.82	126.87	5447.64	128.46	5447.64	129.57	5447.61	131.69	5447.51
133.13	5447.42	133.63	5447.44	134.57	5447.4	136.02	5447.39	136.81	5447.42
138.46	5447.42	140.35	5447.28	141.59	5447.21	143.24	5446.99	146.38	5446.48
147.57	5446.23	148.77	5446.11	149.38	5445.98	151.17	5445.52	153.56	5445.08
154.79	5444.9	156.23	5444.76	157.68	5444.77	160.3	5444.74	162.01	5444.66
163.45	5444.61	166.34	5444.58	170.32	5444.83	171.22	5444.91	172.12	5444.95
175.58	5445.23	176.45	5445.33	177.5	5445.36	178.5	5445.48	180.78	5445.82
182.29	5446.17	184.68	5446.08	186.56	5445.72	188	5445.57	189.42	5445.36
191.86	5445.16	192.34	5445.16	195.22	5445.09	198.11	5444.96	199.04	5444.88
201.44	5444.85	202.44	5444.87	203.98	5444.87	206.78	5444.84	207.62	5444.87
209.66	5444.9	210.54	5444.97	211.26	5444.99	214	5444.96	215.8	5445.05
218.54	5445.34	219.77	5445.43	220.59	5445.43	222.18	5445.38	224.11	5445.45
224.53	5445.42	226.99	5445.48	227.77	5445.47	228.44	5445.5	230.16	5445.51
231.33	5445.48	232.56	5445.41	234.21	5445.44	235.66	5445.4	237.34	5445.43
238.51	5445.38	238.55	5445.41	240.37	5445.3	241.43	5445.29	242.88	5445.37

244.52	5445.44	245.77	5445.43	248.65	5445.53	250.1	5445.52	251.29	5445.44
252.99	5445.37	254.43	5445.36	257.32	5445.38	258.57	5445.26	259.49	5445.28
260.21	5445.34	261.65	5445.38	263.67	5445.3	264.54	5445.3	265.85	5445.26
268.87	5445.37	271.76	5445.45	273.13	5445.46	275.64	5445.51	276.09	5445.49
276.77	5445.53	277.54	5445.53	278.98	5445.44	280.41	5445.43	282.82	5445.48
284.76	5445.58	286.2	5445.57	287.46	5445.51	289.09	5445.51	290.01	5445.4
290.53	5445.38	291.98	5445.59	293.42	5445.58	294.79	5445.54	297.19	5445.4
298.61	5445.4	299.2	5445.43	300.64	5445.39	301.97	5445.41	303.53	5445.36
304.37	5445.43	306.42	5445.39	307.86	5445.32	308.44	5445.26	309.53	5445.2
310.75	5445.18	311.55	5445.07	313.17	5445.02	313.64	5445.03	315.08	5444.95
317.97	5444.72	319.41	5444.65	321.12	5444.45	324.09	5444.44	325.19	5444.46
326.63	5444.45	328.08	5444.5	329.41	5444.48	329.52	5444.4	330.7	5444.43
331.37	5444.39	332.41	5444.24	333.09	5444.26	335.49	5444.23	337.88	5444.04
341.07	5443.86	343.4	5443.93	343.96	5443.98	345.06	5444	348.29	5444.21
350.39	5444.38	351.18	5444.4	352.24	5444.47	354.64	5444.36	355.51	5444.27
356.85	5444.33	358.4	5444.31	361.29	5444.13	362.73	5444.2	364.13	5444.34
365.62	5444.39	366.61	5444.38	367.77	5444.27	368.51	5444.16	369.96	5444.07
371.39	5444.06	373.58	5444.09	375.6	5444.04	376.45	5444.1	376.83	5444.03
377.62	5444.08	378.21	5444.18	379.2	5444.14	379.97	5444.2	382.2	5444.24
383.5	5444.31	383.95	5444.31	385.26	5444.42	387.73	5444.47	389.75	5444.49
390.54	5444.44	391.06	5444.55	391.78	5444.52	394.06	5444.61	397.84	5444.6
398.18	5444.56	399.35	5444.51	399.86	5444.46	401.88	5444.42	402.87	5444.48
404.63	5444.53	405.3	5444.6	407.68	5444.62	408.15	5444.6	409.91	5444.69
411.68	5444.74	412.42	5444.73	414.79	5444.65	416.04	5444.58	416.96	5444.64
417.17	5444.57	418.06	5444.62	419.54	5444.51	420.48	5444.47	422.24	5444.47
424	5444.61	426.66	5444.61	427.53	5444.57	429.29	5444.53	430.19	5444.49
432.81	5444.45	433.78	5444.55	434.57	5444.55	436.25	5444.61	438.52	5444.72
439.85	5444.5	440.9	5444.51	441.62	5444.55	443.27	5444.45	443.38	5444.52
444.34	5444.44	445.14	5444.42	445.64	5444.31	446.36	5444.28	448.39	5444.27
450.39	5444.38	452.18	5444.29	452.76	5444.32	453.94	5444.33	455.7	5444.49
456.47	5444.54	457.47	5444.52	459.23	5444.45	460.52	5444.44	462.54	5444.49
466.27	5444.48	468.03	5444.46	468.6	5444.48	470.62	5444.42	472.65	5444.44
474.67	5444.43	476.49	5444.39	478.6	5444.3	480.36	5444.42	481.23	5444.41
482.12	5444.49	483.61	5444.46	483.88	5444.36	484.78	5444.35	485.64	5444.41
485.98	5444.39	486.8	5444.44	488.35	5444.48	490.93	5444.5	494.89	5444.59
495.47	5444.59	496.21	5444.68	497.85	5444.63	497.97	5444.75	498.93	5444.69
500.95	5444.67	501.5	5444.59	502.59	5444.6	503.26	5444.55	505.17	5444.65
507.34	5444.71	509.04	5444.68	509.71	5444.63	510.3	5444.64	511.06	5444.57
512.06	5444.6	513.08	5444.68	515.58	5444.79	516.83	5444.74	518.84	5444.78
522.63	5444.94	525.21	5445.1	527.23	5445.18	527.91	5445.19	532.5	5445.19
535.32	5445.26	536.72	5445.39	538.18	5445.43	538.48	5445.51	539.37	5445.5
540.24	5445.55	540.56	5445.51	542	5445.55	542.93	5445.49	545.52	5445.44
547.29	5445.65	549.47	5445.79	551.5	5445.8	553.52	5445.76	554.33	5445.76
554.79	5445.7	555.54	5445.69	557.85	5445.91	559.54	5446.23	561.38	5446.34
561.91	5446.35	563.14	5446.29	563.63	5446.3	565.65	5446.22	569.03	5446.32
570.18	5446.39	571.94	5446.44	573.74	5446.44	575.46	5446.5	576.15	5446.56
577.23	5446.6	578.99	5446.73	580.75	5446.77	580.9	5446.75	582.51	5446.77
583.27	5446.83	586.03	5446.94	587.89	5446.91	589.91	5446.95	591.93	5446.88
592.76	5446.83	593.08	5446.9	593.95	5446.83	595.97	5447.04	598.36	5447.24
600.12	5447.41	602.04	5447.45	604.06	5447.69	605.4	5447.78	606.08	5447.8
608.11	5447.72	610.69	5447.86	612.45	5448.02	614.12	5448.13	615.97	5448.06
618.21	5448.09	620.24	5448.21	623.02	5448.29	624.28	5448.35	628.32	5448.66
630.06	5448.62	632.37	5448.54	634.39	5448.51	636.41	5448.64	637.85	5448.66
638.87	5448.71	640.22	5448.95	641.8	5449.03	642.59	5449.05	644.15	5448.99
645.91	5448.98	647.67	5449.03	648.54	5449.08	650.56	5449.14	651.19	5449.18
652.08	5449.14	652.96	5449.16	654.46	5449.13	656.48	5449.18	658.24	5449.26
660.67	5449.26	661.58	5449.3	661.76	5449.25	662.69	5449.3	663.52	5449.31
663.95	5449.36	665.28	5449.37	666.32	5449.35	669.13	5449.36	670.57	5449.39
673.44	5449.53	674.09	5449.48	674.82	5449.52	676.85	5449.43	677.61	5449.42
678.19	5449.34	680.56	5449.36	682.79	5449.45	684.66	5449.49	686.95	5449.48
688.18	5449.51	689.94	5449.59	691.7	5449.69	693.46	5449.74	695.22	5449.72
697.17	5449.73	698.75	5449.63	699.54	5449.68	700.51	5449.78	701.91	5449.88
703.13	5450.01	704.03	5450.07	704.29	5450.05	705.15	5450.11	707.17	5450.17
709.03	5450.35	711.41	5450.46	713.78	5450.44	715.26	5450.41	717.28	5450.33
718.12	5450.33	718.53	5450.28	719.88	5450.28	721.32	5450.37	723.27	5450.71
725.37	5450.83	727.39	5450.75	728.69	5450.89	729.41	5450.94	730.18	5450.94

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 328.08 .035 394.06 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 328.08 394.06 183.7 183.7 185.1 .1 .3
Ineffective Flow num= 3
Sta L Sta R Elev Permanent
136.47 182.29 5446.17 F
182.29 291.98 5445.59 F
411.68 589.08 5444.74 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 3477

INPUT
Description:
Station Elevation Data num= 490
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
0 5446.98 .92 5446.95 1.8 5446.84 3.24 5446.83 4.79 5446.9
6.12 5446.83 7.2 5446.75 8.12 5446.72 9.6 5446.7 10.45 5446.75
12.6 5446.66 13.33 5446.6 15.31 5446.59 16.82 5446.6 17.66 5446.59

19.23 5446.64 19.86 5446.64 20.54 5446.69 22.51 5446.64 23.43 5446.57
24.87 5446.48 26.44 5446.45 29.19 5446.48 29.7 5446.45 31.26 5446.41
32.08 5446.42 33.3 5446.39 34.39 5446.4 34.96 5446.45 36.4 5446.43
39.28 5446.25 40.88 5446.29 42.17 5446.27 43.61 5446.29 44.09 5446.31
45.05 5446.29 45.69 5446.34 46.49 5446.29 47.94 5446.23 48.93 5446.21
49.38 5446.17 50.51 5446.16 52.91 5446.16 53.7 5446.15 55.14 5446.05
56.59 5446.05 57.72 5446.01 58.48 5446.01 59.47 5445.95 60.13 5445.96
60.91 5445.93 62.54 5445.96 63.46 5445.94 63.8 5445.97 65.24 5445.91
65.68 5445.92 67.35 5445.9 68.12 5445.86 69.56 5445.71 72.16 5445.58
73.89 5445.65 74.57 5445.7 75.33 5445.68 76.97 5445.56 78.21 5445.57
79.38 5445.6 81.1 5445.62 82.54 5445.62 84.19 5445.73 86.6 5445.71
89 5445.62 91.41 5445.58 92.52 5445.6 92.63 5445.53 93.82 5445.6
94.46 5445.61 95.51 5445.57 96.96 5445.56 98.06 5445.52 98.63 5445.48
99.78 5445.36 99.84 5445.27 101.03 5445.2 102.72 5445.16 104.17 5445.1
105.61 5445.06 107.05 5445 108.85 5445.04 109.93 5444.99 111.37 5444.96
113.06 5444.88 114.26 5444.81 115.47 5444.86 117.14 5444.82 118.58 5444.84
119.64 5444.84 120.28 5444.82 121.47 5444.75 121.58 5444.78 122.91 5444.73
124.35 5444.73 125.09 5444.75 126.84 5444.65 128.68 5444.52 128.85 5444.57
130.12 5444.52 131.56 5444.38 133 5444.34 135.88 5444.14 136.11 5444.08
137.13 5443.98 138.77 5443.89 139.53 5443.87 141.94 5443.9 143.09 5443.88
143.38 5443.81 144.82 5443.75 145.98 5443.72 147.42 5443.72 149.16 5443.66
151.56 5443.64 153.97 5443.63 154.63 5443.62 156.37 5443.62 157.51 5443.61
157.91 5443.56 159.21 5443.52 161.19 5443.5 161.84 5443.52 163.28 5443.5
164.72 5443.51 166 5443.53 167.6 5443.48 168.4 5443.44 169.05 5443.44
170.49 5443.41 173.22 5443.31 174.81 5443.33 175.62 5443.31 176.25 5443.32
178.03 5443.28 179.14 5443.24 180.44 5443.21 182.02 5443.23 183.46 5443.21
184.91 5443.22 185.25 5443.24 187.65 5443.2 190.62 5443.22 193.13 5443.22
193.54 5443.21 194.98 5443.25 195.56 5443.25 198.67 5443.29 199.3 5443.31
200.41 5443.32 202.17 5443.43 202.84 5443.44 203.61 5443.5 204.73 5443.53
205.27 5443.56 207.7 5443.64 210.12 5443.62 211.79 5443.48 212.55 5443.43
213.68 5443.4 214.23 5443.43 215.12 5443.43 216.56 5443.47 217.41 5443.52
218.85 5443.4 219.83 5443.28 222.01 5442.86 222.38 5442.8 223.75 5442.63
224.69 5442.5 225.91 5442.41 227.12 5442.34 228.06 5442.32 229.43 5442.26
232.38 5442.26 233.81 5442.29 235.25 5442.26 236.83 5442.18 238.13 5442.15
240.02 5442.14 242.44 5442.2 245.32 5442.31 246.54 5442.35 248.96 5442.47
251.07 5442.55 252.51 5442.55 253.12 5442.51 254.14 5442.48 255.39 5442.5
256.25 5442.54 256.82 5442.54 257.66 5442.62 258.67 5442.63 259.7 5442.62
261.19 5442.58 262.58 5442.56 264.02 5442.34 266.89 5442.13 268.25 5442.08
269.77 5442.13 271.78 5442.17 273.24 5442.14 274.08 5442.11 275.31 5442.11
276.46 5442.07 276.96 5442.07 278.4 5442 278.84 5442.02 279.84 5442.12
280.52 5442.06 281.27 5442.08 283.03 5442.07 284.15 5442.02 285.38 5441.99
288.46 5441.99 289.42 5441.96 291.34 5442.05 292.02 5441.99 292.78 5442
294.22 5441.96 295.09 5441.89 296.48 5441.82 297.52 5441.79 299.8 5441.81
302.37 5441.65 302.85 5441.68 303.54 5441.65 304.28 5441.66 304.8 5441.63
305.72 5441.65 307.07 5441.54 308.6 5441.62 310.59 5441.68 314.35 5441.62
315.36 5441.69 315.79 5441.7 317.23 5441.81 319.36 5441.84 320.1 5441.83
321.54 5441.87 323.14 5442.03 324.71 5442.17 325.86 5442.14 326.65 5442.14
327.3 5442.1 329.07 5442.15 330.17 5442.15 330.92 5442.2 331.77 5442.23
333.93 5442.37 335.3 5442.4 336.36 5442.41 337.36 5442.39 338.82 5442.43
340.24 5442.49 341.21 5442.49 341.68 5442.52 343.12 5442.54 343.64 5442.52
344.55 5442.56 345.82 5442.65 348.14 5442.62 349.73 5442.53 352.02 5442.54
353.54 5442.52 354.3 5442.58 355.34 5442.58 355.89 5442.64 356.59 5442.64
357.14 5442.69 358.94 5442.67 360.74 5442.62 361.93 5442.6 364.33 5442.6
366.13 5442.57 367.97 5442.49 369.99 5442.49 370.31 5442.48 371.53 5442.51
372.6 5442.52 373.33 5442.48 374.89 5442.55 375.13 5442.54 376.03 5442.58
376.93 5442.6 377.18 5442.53 378.05 5442.55 378.73 5442.53 379.46 5442.56
380.53 5442.54 381.75 5442.59 382.33 5442.6 384.47 5442.68 386.32 5442.72
387.73 5442.71 388.61 5442.73 390.13 5442.74 391.33 5442.72 392.14 5442.72
394.16 5442.67 394.93 5442.69 395.47 5442.64 396.73 5442.67 398.52 5442.73
401.35 5442.87 403.92 5442.94 405.72 5442.96 406.24 5442.98 406.91 5442.97
407.52 5442.92 408.26 5442.91 409.19 5442.92 409.32 5442.81 410.27 5442.83
411.12 5442.74 411.48 5442.78 412.29 5442.7 412.92 5442.74 413.77 5442.59
414.72 5442.66 416.05 5442.57 418.24 5442.68 420.63 5442.75 421.92 5442.75
422.92 5442.79 423.72 5442.78 425.2 5442.86 425.52 5442.81 426.39 5442.87
427.32 5442.97 427.49 5442.94 428.4 5443.03 430.41 5443.17 430.92 5443.16
432.06 5443.24 434.35 5443.26 434.44 5443.27 436.31 5443.24 438.11 5443.26
438.92 5443.32 441.21 5443.4 441.71 5443.43 443.5 5443.44 445.31 5443.46
445.79 5443.55 446.53 5443.56 447.11 5443.6 448.07 5443.79 448.91 5443.85
450.36 5444.16 452 5444.28 452.57 5444.3 454.93 5443.82 456.11 5443.71
456.6 5443.6 457.22 5443.58 457.91 5443.61 458.61 5443.59 459.51 5443.61
459.71 5443.56 462.64 5443.66 464.66 5443.8 466.67 5443.81 468.66 5443.71
468.89 5443.71 470.94 5443.8 472.71 5443.89 474.1 5443.9 476.74 5443.89
478.75 5443.94 479.5 5444 480.09 5443.95 480.77 5444 481.3 5444.01
482.38 5443.97 484.9 5444.01 486.7 5444.13 488.5 5444.22 490.84 5444.32
491.53 5444.32 492.1 5444.37 492.85 5444.36 493.81 5444.4 493.9 5444.37
494.87 5444.42 496.88 5444.44 498.9 5444.48 500.67 5444.61 501.1 5444.63
502.92 5444.8 504.7 5444.69 506.49 5444.65 507.54 5444.68 510.09 5444.8
511.89 5444.9 512.11 5444.95 513 5445 513.69 5445.06 514.4 5445.19
515.01 5445.25 517.29 5445.32 518.97 5445.16 520.89 5445.13 521.26 5445.11
522.69 5445.22 523.54 5445.23 524.49 5445.34 525.83 5445.38 526.29 5445.37
527.09 5445.4 528.09 5445.38 529.11 5445.4 529.89 5445.38 530.41 5445.41
531.69 5445.39 532.69 5445.43 533.14 5445.43 535.29 5445.5 537.09 5445.55
538.89 5445.64 539.55 5445.64 540.69 5445.71 541.19 5445.69 541.84 5445.72
542.48 5445.65 543.21 5445.68 544.13 5445.68 544.28 5445.65 545.22 5445.65
547.88 5445.68 549.25 5445.72 549.68 5445.72 550.99 5445.8 553.28 5445.79
555.56 5445.71 556.88 5445.74 557.31 5445.71 560.14 5445.91 560.48 5445.86
561.34 5445.93 562.28 5445.89 562.42 5445.96 563.35 5445.92 564.08 5445.94
564.71 5445.91 565.88 5445.93 567 5445.89 567.68 5445.9 569.28 5445.97
570.19 5445.97 571.28 5445.95 571.57 5445.97 573.08 5445.9 573.86 5445.95
574.88 5446.07 575.44 5446.11 576.15 5446.11 576.68 5446.18 577.45 5446.17
578.43 5446.12 578.48 5446.16 579.46 5446.1 580.27 5446.17 580.72 5446.05
581.48 5446.1 583.49 5446.08 583.87 5446.06 585.67 5446.02 587.52 5446.17

589.27	5446.28	589.87	5446.3	592.15	5446.31	592.87	5446.4	594.44	5446.36
594.67	5446.44	595.58	5446.41	598.27	5446.46	599.02	5446.59	600.07	5446.6
601.3	5446.57	601.87	5446.57	603.63	5446.5	605.65	5446.62	605.81	5446.62

Manning's n	Values	num=	3
Sta n Val	Sta n Val	Sta n Val	
0 .05	262.58	.035	324.71
			.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
262.58	324.71	188	176.2	156.4		.1	.3
Ineffective Flow	num=	3					
Sta L	Sta R	Elev	Permanent				
96.16	207.7	5443.64	F				
207.7	258.67	5442.63	F				
452.57	498.9	5444.3	F				

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 3300

INPUT

Description:

Station	Elevation	Data	num=	490
Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev
0 5444.15	1.02 5444.15	1.35 5444.2	2.82 5444.34	4.24 5444.44
5.67 5444.41	8.04 5444.21	9.95 5444.1	11.34 5443.98	13.92 5443.83
17.09 5443.83	17.93 5443.78	19.94 5443.81	21.23 5443.8	22.79 5443.77
24.53 5443.71	26.5 5443.73	29.02 5443.84	29.93 5443.86	31.54 5443.83
34.21 5443.82	36.57 5443.98	37.06 5443.99	37.71 5443.95	39.92 5443.87
41.01 5443.82	42.77 5443.77	44.31 5443.79	45.62 5443.9	47.05 5443.95
49.15 5443.94	49.91 5443.9	50.9 5443.94	51.66 5443.92	52.76 5443.85
54.19 5443.79	56.69 5443.76	59.89 5443.65	61.32 5443.65	62.75 5443.63
64.72 5443.57	65.6 5443.52	67.39 5443.46	68.46 5443.45	69.27 5443.39
70.68 5443.36	71.79 5443.32	74.3 5443.17	75.34 5443.12	75.59 5443.07
77.28 5443.03	79.87 5442.91	80.57 5442.84	81.3 5442.81	82.73 5442.81
85.58 5442.7	87.17 5442.67	88.43 5442.61	89.86 5442.59	90.47 5442.54
91.91 5442.46	92.71 5442.4	94.14 5442.34	95.57 5442.34	96.58 5442.37
98.42 5442.37	99.85 5442.35	101.28 5442.28	102.7 5442.19	104.49 5442.18
106.95 5442.27	108.41 5442.29	109.52 5442.28	111.26 5442.21	113.54 5442.19
116.84 5442.08	117.81 5442.06	118.4 5442.02	120.14 5442.04	121.25 5442.01
122.1 5442.01	122.68 5441.98	123.43 5441.98	124.62 5441.93	125.53 5441.87
127.13 5441.8	128.39 5441.77	129.81 5441.8	132.17 5441.6	133.33 5441.54
135.52 5441.49	136.62 5441.42	137.2 5441.41	139.71 5441.46	141.23 5441.45
142.66 5441.46	144.08 5441.39	147.26 5441.41	148.36 5441.44	149.66 5441.38
151.22 5441.36	152.29 5441.33	154.07 5441.34	155.5 5441.37	157.32 5441.45
159.7 5441.46	160.28 5441.42	161.21 5441.31	162.35 5441.24	164.06 5441.25
165.49 5441.3	166.29 5441.29	168.34 5441.33	169.9 5441.34	171.19 5441.32
172.89 5441.27	174.05 5441.13	174.93 5441.11	175.48 5441.04	176.9 5440.96
179.48 5441.06	181.18 5441.03	182.31 5441.05	183.02 5441.02	183.59 5441.04
185.57 5440.96	187.06 5440.93	189.08 5440.94	190.31 5440.98	192.31 5440.98
195.15 5440.87	195.46 5440.89	196.31 5440.86	197.17 5440.86	197.44 5440.81
199.19 5440.79	199.42 5440.75	200.31 5440.74	201.21 5440.67	201.4 5440.69
203.24 5440.59	203.38 5440.62	204.31 5440.58	205.36 5440.57	207.28 5440.59
207.34 5440.56	209.3 5440.56	212.31 5440.64	214.31 5440.65	215.25 5440.64
215.37 5440.61	216.31 5440.6	218.31 5440.53	221.19 5440.49	223.17 5440.49
223.45 5440.47	225.47 5440.48	227.13 5440.51	229.11 5440.51	229.52 5440.53
231.08 5440.54	231.54 5440.59	233.06 5440.59	233.56 5440.54	235.04 5440.56
235.58 5440.49	237.6 5440.51	239 5440.51	239.63 5440.53	240.98 5440.52
241.65 5440.54	242.96 5440.51	246.31 5440.5	248.89 5440.54	250.87 5440.61
251.76 5440.6	252.85 5440.63	254.31 5440.63	255.8 5440.66	257.82 5440.67
262.75 5440.77	263.89 5440.83	264.73 5440.84	266.71 5440.9	267.93 5440.95
268.68 5440.96	269.95 5440.94	272.31 5440.86	272.64 5440.87	274 5440.83
274.62 5440.83	278.04 5440.9	280.56 5440.86	282.54 5440.88	284.31 5440.94
286.49 5440.83	288.15 5440.68	288.47 5440.67	290.45 5440.69	292.19 5440.79
294.41 5440.86	296.24 5440.84	298.31 5440.84	300.28 5440.91	302.3 5440.93
304.31 5440.88	306.31 5440.76	308.31 5440.72	312.41 5440.83	314.43 5440.92
316.45 5440.99	318.16 5441.03	320.31 5441.03	322.52 5441.19	324.09 5441.37
324.54 5441.4	326.07 5441.56	328.31 5441.64	330.03 5441.55	330.6 5441.5
332.32 5441.28	333.99 5440.94	334.65 5440.79	336.67 5440.42	338.32 5440.13
339.93 5439.94	340.71 5439.87	341.91 5439.86	342.74 5439.75	343.88 5439.76
345.86 5439.42	346.78 5439.25	347.84 5438.97	348.8 5438.83	349.82 5438.59
351.8 5438.39	352.84 5438.34	353.78 5438.24	354.32 5438.22	356.32 5438.02
356.89 5437.94	357.74 5437.87	358.91 5437.73	360.32 5437.6	360.93 5437.62
361.69 5437.59	362.95 5437.66	363.67 5437.67	364.97 5437.76	365.65 5437.88
366.32 5437.92	367.63 5438.26	368.32 5438.42	370.32 5439.38	372.32 5439.91
373.06 5440.08	373.57 5440.24	374.32 5440.42	375.55 5440.41	376.32 5440.43
377.1 5440.36	377.53 5440.27	379.13 5440.13	380.32 5439.99	384.32 5439.77
386.32 5439.72	387.42 5439.74	389.24 5439.81	389.4 5439.83	393.28 5439.96
393.36 5439.99	394.32 5440.02	396.32 5440.21	397.32 5440.24	399.34 5440.39
400.32 5440.44	402.32 5440.58	404.32 5440.6	405.41 5440.58	407.21 5440.51
407.43 5440.52	409.19 5440.43	409.45 5440.37	410.32 5440.31	412.32 5440.2
413.15 5440.11	413.5 5440.1	414.32 5440	415.13 5439.94	415.52 5439.95
416.32 5439.88	418.32 5439.9	419.08 5439.86	419.56 5439.89	420.32 5439.86
421.06 5439.87	421.58 5439.83	422.32 5439.84	423.04 5439.79	423.6 5439.67
424.32 5439.62	425.02 5439.61	425.63 5439.69	427 5439.67	427.65 5439.69
428.98 5439.67	429.67 5439.56	430.32 5439.55	432.32 5439.64	432.94 5439.63
433.71 5439.67	435.74 5439.63	436.89 5439.59	437.76 5439.53	439.78 5439.53
440.32 5439.55	442.32 5439.5	443.82 5439.45	444.81 5439.39	446.79 5439.36
447.87 5439.2	448.77 5439.2	449.89 5439.15	450.75 5439.14	451.91 5439.18
452.73 5439.18	454.32 5439.24	456.68 5439.38	458.32 5439.43	460 5439.45

262.28	5437.68	263.17	5437.64	265.17	5437.63	267.17	5437.64	269.17	5437.67
271.17	5437.71	271.99	5437.75	272.36	5437.74	275.17	5437.87	275.96	5437.86
276.39	5437.89	277.17	5437.89	277.95	5437.86	278.41	5437.8	279.93	5437.76
280.42	5437.71	281.91	5437.69	282.44	5437.7	283.9	5437.67	284.45	5437.74
285.17	5437.73	285.88	5437.76	286.47	5437.83	289.17	5437.93	289.85	5437.92
293.17	5437.82	295.17	5437.89	295.8	5437.88	296.55	5437.92	297.79	5437.9
298.57	5437.92	299.17	5437.9	299.77	5437.91	300.58	5437.89	301.76	5437.91
302.6	5437.87	303.18	5437.88	305.18	5437.88	305.73	5437.9	306.63	5437.97
307.71	5438.02	308.65	5438.12	309.18	5438.15	309.69	5438.23	310.66	5438.42
311.68	5438.56	312.68	5438.6	313.18	5438.66	313.66	5438.67	314.7	5438.61
315.18	5438.62	317.18	5438.4	317.63	5438.34	319.62	5438.16	320.74	5437.99
321.18	5437.97	323.58	5437.57	324.78	5437.47	325.57	5437.31	326.79	5437.16
327.18	5437.07	329.18	5436.5	331.18	5436.11	332.84	5436.01	333.51	5436
335.18	5436.01	335.49	5436.03	336.68	5436.05	340.91	5436.15	341.44	5436.22
343.43	5436.66	344.94	5437.05	345.41	5437.14	347.18	5437.4	349.18	5437.58
351.18	5437.8	353.18	5437.79	353.35	5437.76	355.02	5437.61	357.03	5437.26
357.32	5437.22	359.05	5436.89	361.29	5436.61	363.27	5436.44	365.18	5436.31
369.13	5436.03	371.18	5436.06	373.16	5436.1	375.18	5436.08	377.16	5436.02
379.18	5436.06	381.18	5436.31	383.11	5436.58	383.18	5436.58	385.26	5436.96
387.08	5437.2	389.29	5437.31	391.31	5437.32	393.03	5437.3	395.02	5437.24
395.34	5437.22	397	5437.17	397.36	5437.17	399.18	5437.27	399.37	5437.27
400.97	5437.36	402.96	5437.38	403.4	5437.4	404.94	5437.34	405.42	5437.35
406.92	5437.27	407.44	5437.27	408.91	5437.37	409.18	5437.37	411.18	5437.44
411.47	5437.44	413.48	5437.51	414.86	5437.52	415.5	5437.54	416.85	5437.51
417.52	5437.54	419.53	5437.57	420.81	5437.7	421.55	5437.69	423.57	5437.7
424.78	5437.59	425.18	5437.59	427.6	5437.75	429.18	5437.84	430.74	5437.87
431.63	5437.9	432.72	5437.88	433.65	5437.91	434.7	5437.88	435.66	5437.88
436.69	5437.98	437.68	5437.99	438.67	5438.08	439.69	5438.07	440.66	5438.14
441.71	5438.12	442.64	5438.07	443.73	5438.07	444.63	5438.02	445.74	5438.02
446.61	5438.1	447.76	5438.1	449.18	5438.08	449.77	5438.12	450.58	5438.06
451.79	5438.15	452.56	5438.16	453.81	5438.22	454.55	5438.28	455.18	5438.3
455.82	5438.28	456.53	5438.33	457.18	5438.3	457.84	5438.32	458.52	5438.28
459.86	5438.3	460.5	5438.36	461.87	5438.39	462.48	5438.47	463.89	5438.49
464.47	5438.47	465.9	5438.49	466.45	5438.47	467.18	5438.48	467.92	5438.52
468.44	5438.48	469.94	5438.55	470.42	5438.53	471.18	5438.57	473.18	5438.58
476.37	5438.64	477.18	5438.64	479.18	5438.7	481.18	5438.78	483.18	5438.8
486.06	5438.91	487.18	5438.99	488.08	5439	488.28	5439.03	489.18	5439.04
491.18	5438.98	493.18	5439.01	494.13	5439.06	494.23	5439.11	496.14	5439.22
497.18	5439.27	498.16	5439.38	498.2	5439.3	501.18	5439.64	502.17	5439.77
503.18	5439.83	506.14	5439.87	506.23	5439.91	507.18	5439.92	509.18	5440
510.11	5440.01	510.26	5440.06	511.18	5440.07	512.09	5440.05	512.27	5440.09
513.18	5440.07	515.18	5440.12	516.06	5440.16	516.31	5440.14	517.18	5440.18
518.04	5440.17	518.32	5440.14	520.03	5440.13	520.34	5440.09	522.01	5440.09
522.35	5440.07	523.18	5440.07	525.18	5440.19	525.98	5440.21	527.18	5440.21
527.97	5440.19	528.4	5440.22	529.18	5440.19	531.18	5440.19	531.93	5440.2
533.18	5440.19	535.18	5440.1	537.18	5440.06	538.48	5440.12	539.87	5440.16
540.5	5440.2	542.51	5440.28	543.18	5440.33	543.84	5440.35	544.53	5440.44
545.18	5440.46	546.55	5440.56	547.81	5440.63	548.56	5440.63	549.18	5440.66
551.78	5440.54	553.18	5440.44	555.18	5440.46	557.18	5440.59	559.71	5440.65
561.18	5440.66	561.7	5440.7	562.68	5440.63	563.18	5440.67	565.18	5440.73
567.65	5440.61	568.72	5440.62	569.64	5440.59	570.74	5440.64	571.18	5440.63
573.6	5440.75	574.77	5440.76	575.59	5440.81	576.79	5440.85	579.18	5440.97
579.56	5440.96	580.82	5440.99	581.18	5440.98	583.18	5441.04	583.53	5441.04
584.85	5441.1	587.49	5441.12	589.18	5441	591.18	5441.06	592.92	5441.18
593.45	5441.2	594.93	5441.22	595.43	5441.19	597.42	5441.11	598.97	5441.06
600.98	5441.06	603.37	5441.18	605.35	5441.22	607.03	5441.29	609.05	5441.41
611.06	5441.63	613.08	5441.78	617.11	5442.02	621.14	5442.22	623.16	5442.28
623.19	5442.29	625.17	5442.39	627.18	5442.59	629.19	5442.72	631.19	5442.58
633.19	5442.38	635.12	5442.36	637.1	5442.37	639.19	5442.37	641.07	5442.31
643.19	5442.31	645.04	5442.55	645.34	5442.57	647.19	5442.57	649.3	5442.6

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 315.18 .035 351.18 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
315.18 351.18 349.11 327.67 334.2 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 313.66 5438.67 F
351.18 649.3 5437.8 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 2757

INPUT

Description:
Station Elevation Data num= 451
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
0 5438 3.33 5437.98 5.33 5437.94 6.32 5437.94 8.32 5437.86
11.33 5437.8 15.33 5437.7 19.33 5437.63 21.33 5437.56 23.33 5437.51
25.33 5437.5 27.33 5437.44 31.33 5437.35 34.37 5437.26 37.33 5437.22
40.29 5437.21 41.33 5437.18 46.38 5437.09 50.38 5436.97 51.33 5436.92
53.33 5436.86 56.39 5436.84 60.39 5436.74 62.27 5436.75 65.33 5436.65
67.33 5436.64 70.4 5436.56 72.4 5436.46 74.41 5436.4 77.33 5436.39
81.33 5436.31 83.33 5436.25 85.33 5436.23 86.24 5436.24 86.42 5436.2
87.33 5436.21 89.33 5436.18 92.24 5436.06 95.33 5435.99 99.33 5435.98
103.33 5435.84 108.44 5435.83 110.44 5435.77 114.45 5435.73 118.21 5435.65
121.33 5435.6 123.33 5435.5 125.33 5435.42 126.46 5435.42 128.2 5435.46

131.33 5435.44 134.19 5435.36 134.47 5435.38 138.19 5435.32 139.33 5435.28
142.19 5435.27 146.18 5435.18 148.48 5435.16 151.33 5435.16 155.33 5435.06
158.17 5435.06 159.33 5435.04 161.33 5434.96 164.16 5434.93 166.16 5434.94
166.5 5434.97 170.16 5434.94 172.16 5434.89 174.51 5434.86 177.33 5434.87
180.15 5434.83 180.51 5434.8 186.14 5434.75 186.52 5434.76 192.14 5434.76
195.33 5434.74 197.33 5434.68 200.13 5434.68 200.53 5434.7 205.33 5434.65
208.12 5434.6 210.54 5434.59 212.12 5434.55 213.33 5434.55 216.11 5434.5
217.33 5434.44 220.11 5434.41 220.55 5434.42 225.33 5434.36 227.33 5434.38
229.33 5434.34 231.33 5434.32 235.33 5434.11 237.33 5434.07 239.33 5434
240.09 5433.95 240.57 5433.97 242.09 5433.91 244.58 5433.87 246.08 5433.83
250.08 5433.79 250.58 5433.75 252.08 5433.74 255.33 5433.63 259.33 5433.56
263.33 5433.41 264.06 5433.41 267.33 5433.34 269.33 5433.27 270.6 5433.27
272.61 5433.21 274.05 5433.19 277.33 5433.09 280.05 5433.08 280.61 5433.11
284.62 5433.05 288.04 5433.05 288.62 5433 292.63 5432.93 294.03 5432.88
294.63 5432.89 297.33 5432.83 301.33 5432.8 302.03 5432.77 304.64 5432.74
306.02 5432.76 306.64 5432.72 308.02 5432.73 308.64 5432.69 310.02 5432.69
312.65 5432.65 314.01 5432.61 316.01 5432.58 316.65 5432.6 318.01 5432.58
319.33 5432.59 324.66 5432.51 326 5432.48 326.66 5432.5 330 5432.45
330.66 5432.39 332 5432.39 334.04 5432.33 334.61 5432.35 336.09 5432.32
336.56 5432.36 338.14 5432.34 338.52 5432.36 342.24 5432.33 347.33 5432.23
349.34 5432.24 351.34 5432.27 356.11 5432.26 360.02 5432.15 362.72 5432.11
365.34 5432.04 367.84 5432.01 369.79 5432.03 371.34 5432 373.7 5431.88
375.66 5431.83 377.61 5431.82 379.11 5431.76 381.52 5431.73 383.48 5431.73
385.25 5431.78 387.35 5431.77 389.34 5431.71 393.25 5431.64 395.21 5431.62
397.54 5431.65 399.35 5431.65 401.64 5431.56 403.35 5431.46 405.74 5431.52
407.35 5431.63 409.83 5431.68 410.85 5431.66 411.88 5431.69 413.35 5431.66
414.76 5431.6 415.36 5431.59 417.35 5431.56 418.67 5431.61 420.62 5431.65
423.36 5431.64 424.53 5431.66 427.36 5431.66 429.08 5431.69 429.36 5431.7
431.36 5431.81 432.35 5431.81 434.31 5431.85 436.46 5431.9 437.36 5431.95
438.51 5431.96 441.36 5432.06 442.13 5432.06 449.36 5432.17 452.85 5432.25
453.86 5432.25 455.81 5432.29 459.37 5432.39 461.04 5432.4 463.63 5432.44
467.19 5432.55 469.5 5432.61 475.38 5432.71 479.27 5432.75 481.22 5432.74
483.18 5432.75 485.13 5432.78 489.04 5432.82 493.37 5432.74 496.86 5432.82
499.38 5432.9 501.38 5432.9 503.38 5432.98 504.06 5433.03 508.15 5433.17
510.2 5433.19 510.55 5433.23 512.25 5433.24 512.5 5433.27 514.3 5433.28
514.46 5433.31 516.35 5433.32 516.41 5433.35 518.37 5433.38 520.32 5433.37
520.44 5433.34 522.49 5433.35 524.23 5433.4 526.19 5433.51 526.59 5433.58
529.38 5433.79 530.69 5433.86 532.05 5433.89 533.39 5433.89 537.92 5433.99
541.39 5433.91 545.39 5433.92 547.69 5433.96 549.12 5434.02 553.56 5434.12
555.39 5434.24 557.31 5434.4 559.39 5434.65 561.38 5434.85 563.33 5434.88
565.39 5435.01 567.39 5435.16 569.6 5435.42 571.65 5435.58 573.11 5435.62
575.4 5435.85 577.02 5436.1 579.4 5436.4 581.4 5436.48 583.94 5436.47
584.84 5436.54 588.04 5436.67 588.75 5436.64 591.4 5436.76 593.4 5436.73
594.61 5436.61 595.4 5436.5 597.4 5436.44 599.4 5436.45 600.33 5436.37
600.47 5436.42 602.38 5436.24 602.43 5436.21 604.38 5436.02 605.41 5435.96
607.41 5435.93 609.41 5435.99 612.2 5435.87 612.62 5435.81 617.41 5435.56
620.02 5435.48 620.81 5435.52 621.98 5435.49 623.41 5435.49 623.93 5435.39
624.91 5435.31 625.41 5435.21 625.89 5435.23 626.96 5435.06 629.01 5435.19
629.41 5435.24 631.05 5435.34 633.71 5435.41 635.66 5435.51 637.62 5435.46
639.57 5435.18 641.53 5435.06 643.42 5435.1 645.39 5435.17 647.42 5435.18
649.35 5435.11 651.54 5435.11 653.26 5435.15 655.63 5435.15 657.17 5435.27
659.12 5435.34 661.08 5435.23 661.78 5435.24 663.03 5435.19 663.83 5435.22
665.42 5435.23 667.42 5435.19 668.9 5435.11 672.81 5435.05 674.07 5435.06
675.42 5435.13 677.42 5435.09 680.21 5435.09 680.63 5435.14 681.43 5435.14
683.43 5435.29 684.54 5435.33 686.36 5435.33 686.49 5435.28 687.43 5435.27
691.43 5435.12 693.43 5435.25 694.31 5435.23 694.55 5435.3 695.43 5435.28
696.27 5435.32 696.6 5435.27 697.43 5435.31 701.43 5435.39 702.75 5435.34
705.43 5435.3 707.43 5435.31 708.89 5435.4 712.99 5435.53 713.43 5435.53
715.04 5435.62 717.09 5435.63 719.72 5435.68 721.44 5435.67 723.23 5435.74
725.28 5435.85 727.54 5435.99 729.38 5436.03 731.42 5436.18 733.41 5436.43
735.44 5436.44 737.32 5436.42 739.62 5436.5 741.23 5436.43 743.71 5436.43
745.76 5436.47 747.44 5436.45 749.44 5436.55 751.44 5436.73 753.96 5436.73
754.91 5436.67 756 5436.69 756.87 5436.77 758.05 5436.79 758.82 5436.74
759.45 5436.75 761.45 5436.62 762.73 5436.67 765.45 5436.73 767.45 5436.71
770.55 5436.78 771.45 5436.82 774.44 5436.87 776.42 5436.86 776.49 5436.83
778.37 5436.86 778.54 5436.82 780.58 5436.83 782.28 5436.78 782.63 5436.82
785.45 5436.79 787.45 5436.83 789.46 5436.97 790.1 5436.98 790.83 5436.93
792.06 5436.96 792.87 5436.85 795.46 5436.95 797.46 5436.99 799.02 5437.09
801.83 5437.18 803.46 5437.17 805.74 5437.26 807.21 5437.34 809.46 5437.34
811.31 5437.16 813.56 5437.1 815.41 5437.23 819.46 5437.29 821.38 5437.33
823.6 5437.49 827.7 5437.6 829.2 5437.68 829.74 5437.68 831.79 5437.79
833.11 5437.78 833.84 5437.81 835.92 5437.83 836.89 5437.76 838.29 5437.77
838.65 5437.82 841.53 5437.83 843.55 5437.88 845.57 5437.99 847.77 5437.99
849.23 5437.92 850.99 5437.95 852.51 5437.93 852.75 5437.97 855.68 5437.97
856.28 5438 859.72 5438.04 861.99 5438.17 865.09 5438.22 869.1 5438.37
872.14 5438.44 874.06 5438.42 877.92 5438.42 880.95 5438.54 882.71 5438.64
886.23 5438.78 888.02 5438.91 890.43 5438.98 891.52 5438.96 894.09 5439.01
896.11 5439.11 898.57 5439.17 900.33 5439.26 902.28 5439.26 905.62 5439.34
908.24 5439.48 909.14 5439.56 909.4 5439.54 910.91 5439.67 911.77 5439.68
912.67 5439.74 914.14 5439.7 916.51 5439.79 917.95 5439.91 919.72 5439.96
921.25 5439.96

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 371.34 .035 441.36 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
371.34 441.36 131.3 130.64 127.44 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
591.4 921.25 5436.76 F

CROSS SECTION

RIVER: Rainbow Trib

REACH: North-DS-0 RS: 2627

INPUT

Description:

Station Elevation Data		num=	490								
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5434.96	.39	5434.96	1.8	5434.82	3.88	5434.75	5.95	5434.61		
6.87	5434.57	7.21	5434.59	8.03	5434.55	10.11	5434.62	12.19	5434.65		
13.01	5434.62	13.35	5434.67	14.27	5434.62	15.01	5434.61	16.25	5434.53		
17.05	5434.46	17.87	5434.34	19.32	5434.26	21.29	5434.22	22.22	5434.18		
23.66	5434.2	26.03	5434.11	26.56	5434.08	28.01	5434.07	29.46	5434.03		
30.22	5434.03	32.35	5433.95	33.16	5433.95	36.7	5433.83	37.91	5433.74		
40.28	5433.62	41.04	5433.61	42.23	5433.55	45.03	5433.48	46.83	5433.52		
48.28	5433.53	49.99	5433.47	51.18	5433.46	55.52	5433.38	56.58	5433.32		
58.42	5433.29	59.86	5433.23	60.79	5433.15	64.02	5433.02	65.66	5433.02		
67.1	5432.99	68.55	5432.99	71.14	5433.09	71.92	5433.09	73.52	5433.06		
74.34	5433.03	75.89	5433.01	79.35	5432.89	81.58	5432.84	84.48	5432.84		
85.39	5432.83	86.77	5432.79	87.76	5432.74	88.82	5432.66	89.53	5432.64		
91.72	5432.51	93.17	5432.5	94.62	5432.39	96.06	5432.36	98.96	5432.34		
100.41	5432.31	101.62	5432.32	102.7	5432.28	103.3	5432.28	104.38	5432.21		
106.2	5432.07	107.65	5432.01	109.04	5431.97	110.54	5432.03	111.99	5432.05		
114.89	5432.05	115.88	5432.02	119.23	5431.97	120.17	5431.97	122.13	5431.94		
125.75	5431.9	126.47	5431.93	128.12	5431.85	130.5	5431.83	132.26	5431.87		
133.71	5431.84	135.25	5431.85	136.61	5431.82	140.95	5431.69	145.29	5431.71		
148.19	5431.67	149.87	5431.6	151.09	5431.51	153.58	5431.47	154.24	5431.44		
155.42	5431.43	156.61	5431.4	158.33	5431.38	159.77	5431.42	162	5431.36		
162.67	5431.27	163.74	5431.28	164.12	5431.26	167.01	5431.25	169.91	5431.16		
172.14	5431.06	173.23	5431.05	175.7	5431.06	179.56	5431.09	181.49	5431.07		
181.77	5431.03	184.39	5430.94	185.1	5430.93	187.48	5430.93	188.36	5430.91		
188.73	5430.95	190.69	5430.86	191.63	5430.84	194.95	5430.86	196.98	5430.84		
198.87	5430.8	199.35	5430.77	201.54	5430.7	204.1	5430.66	205.54	5430.7		
207.56	5430.68	208.13	5430.72	209	5430.71	211.9	5430.77	213.59	5430.86		
214.72	5430.85	214.8	5430.87	216.24	5430.85	217.69	5430.8	218.34	5430.76		
219.14	5430.77	220.72	5430.83	221.31	5430.81	222.04	5430.85	223.48	5430.78		
224.93	5430.62	225.47	5430.59	226.38	5430.49	229.28	5430.3	230.21	5430.27		
232.59	5430.22	233.62	5430.21	234.48	5430.29	234.96	5430.3	236.52	5430.41		
239.41	5430.44	239.71	5430.42	242.31	5430.47	243.76	5430.76	245.2	5431.01		
246.65	5431.16	247.66	5431.14	248.1	5431.11	251	5431.03	251.58	5431.03		
252.44	5430.96	253.79	5430.89	255.34	5430.89	256.79	5430.95	257.5	5431.02		
259.68	5431.09	261.21	5431.19	262.58	5431.2	264.03	5431.17	265.83	5431.17		
268.2	5431.2	269.82	5431.21	270.58	5431.28	272.35	5431.39	274.16	5431.44		
278.51	5431.48	280.07	5431.47	281.4	5431.58	282.35	5431.62	283.23	5431.69		
283.48	5431.65	285.21	5431.79	285.49	5431.76	286.35	5431.83	287.2	5431.86		
287.5	5431.91	289.19	5431.96	289.51	5432.01	290.35	5432.03	292.35	5432.05		
296.35	5432.12	299.57	5432.09	300.35	5432.06	301.12	5432.07	301.59	5432.12		
302.35	5432.13	303.11	5432.18	303.6	5432.18	305.09	5432.3	305.61	5432.31		
307.08	5432.44	307.62	5432.45	308.35	5432.51	310.35	5432.58	311.06	5432.59		
311.65	5432.68	313.05	5432.71	313.66	5432.77	315.03	5432.81	315.67	5432.78		
317.02	5432.84	317.69	5432.83	318.35	5432.87	319.7	5432.91	321	5432.93		
321.71	5432.97	324.35	5433.06	326.96	5433.11	330.35	5433.24	331.77	5433.37		
332.93	5433.44	333.78	5433.54	334.91	5433.6	335.8	5433.67	336.9	5433.71		
337.81	5433.69	338.89	5433.72	340.88	5433.74	342.86	5433.81	343.85	5433.89		
345.86	5433.98	346.84	5434.04	347.87	5434.07	348.83	5434.14	349.88	5434.19		
350.82	5434.27	352.8	5434.38	353.91	5434.49	354.35	5434.51	356.78	5434.68		
358.35	5434.75	360.35	5434.81	361.96	5434.89	364.35	5435.04	366.35	5435.03		
368.35	5434.89	370.35	5434.65	372.02	5434.33	372.68	5434.18	374.35	5433.76		
376.66	5433.29	378.35	5433	380.64	5432.78	382.08	5432.62	384.61	5432.6		
386.1	5432.66	388.59	5432.59	390.35	5432.46	392.14	5432.22	394.15	5431.93		
394.35	5431.89	396.35	5431.69	398.35	5431.6	400.19	5431.6	402.2	5431.7		
402.5	5431.73	406.48	5431.92	408.47	5431.98	410.25	5432.01	412.44	5432.14		
414.35	5432.42	416.35	5432.92	418.3	5433.39	420.35	5433.8	422.35	5434.1		
424.34	5433.99	426.35	5433.97	430.33	5434.05	432.35	5434.15	434.31	5434.26		
436.35	5434.34	438.29	5434.43	440.27	5434.46	442.45	5434.53	444.46	5434.73		
446.47	5435.06	448.23	5435.42	450.21	5435.81	450.5	5435.85	452.35	5436.19		
454.35	5436.32	456.18	5436.24	458.55	5436.08	460.56	5435.89	462.57	5435.68		
464.13	5435.58	466.35	5435.56	466.59	5435.58	468.11	5435.61	468.35	5435.63		
470.62	5435.53	472.08	5435.48	472.35	5435.45	474.07	5435.46	476.06	5435.39		
478.04	5435.34	478.67	5435.34	480.03	5435.4	482.69	5435.41	484.01	5435.34		
486.35	5435.3	486.72	5435.28	487.98	5435.28	488.73	5435.26	491.96	5435.21		
494.35	5435.22	495.94	5435.15	496.78	5435.13	497.92	5435.06	500.35	5435.05		
500.8	5435.06	501.9	5435.14	502.82	5435.15	504.35	5435.13	504.83	5435.1		
505.88	5435.09	506.35	5435.06	507.86	5435.01	508.85	5435	509.85	5434.92		
510.86	5434.9	511.84	5434.82	512.88	5434.77	513.83	5434.8	514.36	5434.77		
518.36	5434.73	518.91	5434.7	519.79	5434.72	520.36	5434.69	522.94	5434.46		
523.77	5434.27	525.76	5434.15	528.36	5434.02	530.36	5433.96	533.71	5433.92		
535.69	5433.86	537.02	5433.85	537.68	5433.94	539.04	5433.93	539.67	5433.97		
541.05	5433.96	541.66	5433.89	543.06	5433.89	543.65	5433.78	545.07	5433.79		
545.63	5433.77	547.09	5433.78	547.62	5433.82	549.1	5433.81	550.36	5433.82		
553.12	5433.75	555.13	5433.73	558.36	5433.77	560.36	5433.69	562.36	5433.63		
563.18	5433.69	563.53	5433.68	564.36	5433.73	566.36	5433.81	567.21	5433.78		
567.5	5433.84	569.22	5433.79	569.49	5433.82	570.36	5433.79	571.23	5433.82		
571.48	5433.79	573.25	5433.85	575.26	5433.9	575.45	5433.84	576.36	5433.86		
577.27	5433.78	577.44	5433.83	578.36	5433.75	580.36	5433.77	581.29	5433.83		
581.42	5433.81	583.31	5433.91	583.41	5433.88	584.36	5433.93	587.33	5433.93		
588.36	5433.95	589.34	5433.89	591.36	5433.89	592.36	5433.86	594.36	5433.96		
595.33	5433.91	595.38	5433.97	596.36	5433.92	598.36	5433.84	599.31	5433.88		
599.4	5433.84	600.36	5433.88	602.36	5433.99	603.28	5434.07	603.43	5434.03		
604.36	5434.12	606.36	5434.13	607.26	5434.11	607.45	5434.13	608.36	5434.11		

611.24	5434.2	612.36	5434.26	614.36	5434.43	615.21	5434.45	615.5	5434.51
616.36	5434.52	618.36	5434.5	619.19	5434.51	619.53	5434.47	620.36	5434.47
622.36	5434.56	624.36	5434.55	625.15	5434.57	625.56	5434.55	626.36	5434.57
628.36	5434.7	630.36	5434.76	631.12	5434.75	631.6	5434.8	633.1	5434.79
633.61	5434.82	637.64	5434.84	639.65	5434.9	641.06	5434.91	641.66	5434.89
643.04	5434.9	643.68	5434.86	644.36	5434.87	646.36	5434.81	648.36	5434.82
650.36	5434.88	654.36	5434.82	654.97	5434.85	655.75	5434.83	658.36	5434.92
659.77	5434.98	660.94	5434.97	661.79	5435	662.36	5434.98	663.8	5434.99
666.36	5435.06	666.9	5435.05	667.82	5435.09	668.36	5435.09	670.87	5435.18
672.86	5435.18	673.86	5435.15	676.84	5435.2	678.36	5435.26	680.36	5435.23
681.91	5435.26	684.36	5435.39	684.79	5435.4	685.93	5435.48	686.78	5435.48
688.36	5435.51	690.75	5435.45	692.36	5435.39	694.36	5435.39	696.72	5435.47
698.01	5435.53	700.69	5435.59	702.03	5435.66	702.68	5435.67	704.04	5435.65
706.36	5435.71	708.36	5435.68	710.08	5435.78	712.62	5436.03	714.1	5436.19
716.12	5436.27	716.6	5436.27	718.13	5436.37	720.57	5436.46	722.56	5436.46
724.17	5436.42	726.18	5436.47	728.53	5436.61	730.2	5436.75	730.5	5436.76

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	222.04	.035	246.65	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
222.04	246.65	374.21	389.69	412.33		.1	.3
Ineffective Flow	num=	2					
Sta L	Sta R	Elev	Permanent				
364.35	451.06	5435.04	F				
454.35	725.76	5436.32	F				

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 2237

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5432.52	.49	5432.52	1.99	5432.43	3.59	5432.3	4.99	5432.25
5.8	5432.21	6.49	5432.2	8.02	5432.15	10.23	5432.02	12.34	5431.88
13.99	5431.79	14.67	5431.74	15.49	5431.65	17.22	5431.48	19.1	5431.33
19.99	5431.24	20.82	5431.23	21.86	5431.15	22.99	5431.04	24.49	5430.94
25.05	5430.95	25.99	5430.89	26.51	5430.88	27.49	5430.82	29.29	5430.61
30.49	5430.48	31.99	5430.29	33.49	5430.14	34.99	5430.09	36.49	5430.1
39.04	5429.9	39.49	5429.85	40.44	5429.82	41.26	5429.77	43.99	5429.65
46.25	5429.53	46.99	5429.47	48.49	5429.4	49.72	5429.33	50.49	5429.32
51.49	5429.34	52.99	5429.31	54.73	5429.22	55.99	5429.12	56.77	5429.07
58.97	5429	60.5	5428.99	61.21	5429	63.65	5428.92	65	5428.84
66.5	5428.77	67.45	5428.76	68.29	5428.73	69.5	5428.65	70.07	5428.63
71	5428.55	72.29	5428.47	74	5428.34	74.5	5428.31	76.72	5428.26
77	5428.26	78.5	5428.18	80	5428.08	80.17	5428.08	81.5	5427.99
83.37	5427.92	84.5	5427.91	86	5427.92	86.87	5427.94	87.8	5427.93
89	5427.85	90.01	5427.77	92	5427.59	92.89	5427.57	93.5	5427.53
95	5427.52	96.5	5427.52	98	5427.42	98.88	5427.33	99.5	5427.29
101.1	5427.14	103.31	5427.14	104	5427.16	107	5427.14	107.74	5427.15
108.5	5427.12	109.96	5427.15	111.5	5427.03	112.18	5426.95	113	5426.89
114.39	5426.83	117.5	5426.85	118.82	5426.83	120.5	5426.76	121.04	5426.76
122	5426.71	123.5	5426.66	125.47	5426.68	126.5	5426.73	126.8	5426.72
127.69	5426.76	129.5	5426.73	129.9	5426.71	132.5	5426.67	135.5	5426.66
136.55	5426.68	137	5426.67	137.94	5426.68	140.99	5426.62	141.5	5426.6
145.42	5426.51	146	5426.47	148	5426.48	149	5426.45	152.07	5426.43
153.5	5426.41	155	5426.36	156.48	5426.32	158	5426.31	158.71	5426.28
159.5	5426.28	160.93	5426.25	163.15	5426.26	164	5426.28	164.96	5426.25
167.01	5426.22	167.58	5426.17	170.01	5426.06	171.51	5426.06	172.01	5426.04
174.51	5426	176.01	5426.08	177.51	5426.15	177.68	5426.14	179.01	5426.19
180.51	5426.15	181.92	5426.14	182.01	5426.15	183.51	5426.15	185.31	5426.14
186.51	5426.11	187.52	5426.1	189.02	5426.1	189.74	5426.08	191.01	5426.07
192.51	5426.09	195.51	5426.12	197.01	5426.11	198.88	5426.15	200.01	5426.16
201.51	5426.2	202.95	5426.25	204.51	5426.26	205.25	5426.28	207.59	5426.31
209.01	5426.26	209.68	5426.27	212.24	5426.28	213.51	5426.3	215.01	5426.23
215.83	5426.21	216.51	5426.17	218.01	5426.14	219.51	5426.15	220.07	5426.12
220.77	5426.12	223.02	5426.19	224.7	5426.29	226.68	5426.32	228.66	5426.26
230.64	5426.19	232.62	5426.16	233.13	5426.17	234.59	5426.25	236.57	5426.34
237.18	5426.35	240.87	5426.29	241.22	5426.26	243.24	5426.15	244.49	5426.07
246.47	5426.05	247.29	5426.05	248.87	5426.08	249.31	5426.07	251.33	5425.98
252.4	5425.89	254.87	5425.8	256.36	5425.77	256.87	5425.75	258.87	5425.71
260.87	5425.62	261.44	5425.65	262.29	5425.63	262.87	5425.66	264.87	5425.71
266.87	5425.65	268.87	5425.54	270.21	5425.48	272.87	5425.4	273.57	5425.45
274.17	5425.38	275.6	5425.48	276.14	5425.48	277.62	5425.62	278.12	5425.75
280.87	5426.06	281.66	5426.14	282.08	5426.14	282.87	5426.21	284.87	5426.3
285.71	5426.29	286.04	5426.31	286.87	5426.3	288.87	5426.2	289.75	5426.08
289.99	5426.08	290.87	5425.96	291.77	5425.87	291.97	5425.87	292.87	5425.78
293.8	5425.75	293.95	5425.78	294.87	5425.75	295.82	5425.68	295.93	5425.71
296.87	5425.64	297.84	5425.6	297.91	5425.55	298.87	5425.52	299.86	5425.61
302.87	5425.63	303.84	5425.6	303.91	5425.57	305.82	5425.5	305.93	5425.48
306.88	5425.44	307.8	5425.37	307.95	5425.34	308.79	5425.28	310.88	5425.08
311.76	5425.02	312	5425.02	312.88	5424.96	314.88	5424.86	315.72	5424.87
316.04	5424.85	317.69	5424.84	318.06	5424.82	320.08	5424.78	321.65	5424.73
322.11	5424.73	323.63	5424.68	324.13	5424.68	326.88	5424.61	327.59	5424.64
328.17	5424.63	329.57	5424.69	330.19	5424.75	332.22	5424.79	332.88	5424.82
336.26	5424.84	337.48	5424.82	338.88	5424.81	340.31	5424.83	340.88	5424.85
341.44	5424.92	342.33	5425	342.88	5425.07	344.88	5425.4	345.39	5425.46

346.37	5425.64	346.88	5425.7	347.37	5425.7	348.39	5425.78	349.35	5425.77
350.42	5425.81	352.88	5425.82	353.31	5425.84	354.46	5425.82	354.88	5425.83
356.88	5426.03	357.26	5426.09	358.5	5426.19	359.24	5426.33	360.53	5426.52
361.22	5426.67	362.55	5426.85	362.88	5426.91	364.57	5427.05	366.59	5427.17
367.16	5427.17	368.62	5427.22	369.14	5427.21	371.11	5427.23	372.66	5427.26
373.09	5427.28	374.68	5427.31	376.7	5427.32	377.05	5427.31	378.73	5427.34
381.01	5427.29	382.99	5427.23	384.79	5427.3	386.82	5427.34	388.88	5427.33
390.88	5427.39	392.88	5427.51	394.86	5427.52	396.88	5427.52	398.81	5427.54
400.97	5427.53	402.77	5427.55	404.75	5427.61	406.73	5427.69	408.71	5427.75
410.69	5427.76	411.08	5427.77	413.1	5427.86	415.13	5427.92	417.15	5427.92
418.6	5427.95	419.17	5427.93	420.88	5427.92	422.56	5427.94	424.54	5428.02
426.51	5428.04	427.26	5428.04	430.88	5428.13	431.3	5428.17	432.45	5428.2
433.33	5428.26	434.88	5428.34	435.35	5428.34	436.88	5428.38	438.39	5428.38
440.36	5428.33	442.88	5428.28	444.88	5428.26	446.88	5428.3	447.48	5428.3
448.28	5428.33	448.88	5428.33	450.88	5428.39	452.24	5428.39	454.88	5428.35
456.88	5428.28	460.15	5428.27	460.88	5428.28	462.88	5428.35	463.66	5428.41
464.11	5428.41	465.68	5428.52	466.09	5428.57	466.88	5428.62	468.88	5428.61
471.75	5428.68	472.89	5428.7	474.89	5428.76	475.98	5428.8	477.81	5428.88
479.83	5428.95	479.94	5428.97	481.86	5429.01	481.91	5429.04	483.88	5429.06
484.89	5429.09	486.89	5429.26	487.85	5429.32	487.92	5429.31	488.89	5429.37
490.89	5429.42	491.81	5429.5	491.97	5429.49	492.89	5429.56	494.89	5429.77
495.76	5429.74	496.01	5429.82	496.89	5429.79	497.74	5429.78	498.03	5429.76
498.89	5429.75	499.72	5429.81	500.06	5429.86	502.08	5430	503.68	5430.09
504.1	5430.09	504.89	5430.13	506.12	5430.17	507.63	5430.26	508.15	5430.26
508.89	5430.31	510.89	5430.41	511.59	5430.41	512.19	5430.47	512.89	5430.46
514.21	5430.52	514.89	5430.54	515.55	5430.6	516.89	5430.7	517.53	5430.72
518.26	5430.78	518.89	5430.8	520.89	5430.84	521.48	5430.88	522.3	5430.85
524.32	5430.96	525.44	5431	526.89	5431.07	528.89	5431.1	529.4	5431.14
530.39	5431.16	530.89	5431.2	532.41	5431.39	532.89	5431.47	534.89	5431.62
537.31	5431.63	538.48	5431.68	539.29	5431.69	540.5	5431.68	541.27	5431.7
542.52	5431.7	544.89	5431.77	547.21	5431.89	550.89	5432.1	552.89	5432.17
553.14	5432.19	554.89	5432.27	557.1	5432.5	558.7	5432.62	559.08	5432.63
560.72	5432.61	563.03	5432.52	564.77	5432.6	565.01	5432.59	566.89	5432.58
566.99	5432.57	568.81	5432.61	570.83	5432.49	572.89	5432.43	574.88	5432.6
576.88	5432.45	578.89	5432.44	580.84	5432.59	582.82	5432.73	586.89	5432.95
589.03	5432.94	590.73	5432.96	592.71	5433	593.08	5433.02	595.1	5433.18
596.67	5433.28	598.65	5433.39	600.63	5433.38	602.61	5433.39	603.19	5433.44
604.58	5433.53	604.89	5433.57	606.56	5433.67	606.89	5433.68	608.89	5433.8
610.52	5433.95	612.5	5434.19	614.48	5434.4	614.89	5434.43	616.89	5434.49
617.34	5434.53	618.43	5434.68	618.89	5434.73	620.41	5434.81	620.89	5434.85
623.41	5434.92	624.37	5435.01	625.43	5435.06	626.35	5435.08	626.89	5435.11
628.89	5435.19	630.89	5435.3	632.28	5435.43	633.52	5435.5	634.26	5435.58
635.54	5435.63	636.24	5435.68	636.89	5435.7	637.56	5435.75	638.22	5435.75
638.89	5435.79	639.59	5435.87	640.2	5435.87	640.9	5435.95	641.18	5435.95

Manning's n Values				num= 3			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
0	.05	302.87		.035	348.39		.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	302.87	348.39		198.37	190.66		.1	.3
Ineffective Flow	num=		1					
Sta L	Sta R	Elev	Permanent					
0	286.04	5426.31	F					

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 2046

INPUT									
Description:									
Station Elevation Data				num= 490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5433	1.04	5432.97	2.02	5432.9	2.07	5432.91	3.04	5432.84
4.01	5432.76	4.08	5432.73	5.04	5432.64	6	5432.57	6.09	5432.55
7.04	5432.49	7.99	5432.45	8.11	5432.43	9.04	5432.38	11.04	5432.36
11.96	5432.3	12.13	5432.32	13.04	5432.26	14.14	5432.17	15.04	5432.09
17.04	5432.02	18.16	5432	19.04	5431.97	19.92	5431.96	20.17	5431.95
21.05	5431.94	21.91	5431.88	22.19	5431.84	23.05	5431.78	23.89	5431.7
25.05	5431.61	25.88	5431.56	26.21	5431.55	27.87	5431.45	29.05	5431.36
29.86	5431.33	30.23	5431.28	31.05	5431.24	31.85	5431.22	32.24	5431.15
33.05	5431.13	34.26	5431.06	35.83	5430.96	36.27	5430.97	37.81	5430.87
38.28	5430.86	39.05	5430.81	39.8	5430.77	40.29	5430.78	41.79	5430.68
42.3	5430.66	43.05	5430.61	43.78	5430.58	44.31	5430.53	45.05	5430.49
45.77	5430.47	46.33	5430.42	47.76	5430.36	49.05	5430.29	49.75	5430.24
50.35	5430.21	51.05	5430.15	51.73	5430.11	52.36	5430.09	53.05	5430.04
54.37	5430.01	55.71	5429.97	56.38	5429.94	57.7	5429.9	59.05	5429.85
59.69	5429.81	60.41	5429.79	63.05	5429.62	63.67	5429.57	64.43	5429.53
65.05	5429.48	65.65	5429.45	66.44	5429.4	67.64	5429.34	68.45	5429.31
69.63	5429.25	70.47	5429.22	71.62	5429.17	72.48	5429.1	73.05	5429.08
75.05	5428.97	75.6	5428.92	76.5	5428.9	77.58	5428.83	78.51	5428.8
79.05	5428.77	79.57	5428.78	80.52	5428.71	81.05	5428.72	81.56	5428.7
82.54	5428.62	83.05	5428.6	83.55	5428.55	84.55	5428.53	85.05	5428.48
85.54	5428.47	86.56	5428.47	89.05	5428.42	91.05	5428.34	93.49	5428.18
94.61	5428.13	95.05	5428.1	97.47	5428.04	99.05	5428.01	99.46	5427.98
101.45	5427.91	102.65	5427.86	103.44	5427.84	104.66	5427.79	105.42	5427.78
107.05	5427.72	107.41	5427.69	108.69	5427.66	111.05	5427.53	111.39	5427.53
112.71	5427.51	113.38	5427.51	114.72	5427.47	115.05	5427.47	115.37	5427.45
116.73	5427.39	117.36	5427.37	118.74	5427.28	119.05	5427.28	121.33	5427.2
123.32	5427.17	124.78	5427.09	127.05	5427	127.3	5427	129.29	5426.96

130.81	5426.91	131.28	5426.89	133.05	5426.83	134.84	5426.83	135.05	5426.82
137.05	5426.81	138.86	5426.73	139.23	5426.71	141.22	5426.64	142.88	5426.62
143.21	5426.61	145.05	5426.61	145.2	5426.6	146.91	5426.56	147.18	5426.55
148.92	5426.56	149.17	5426.55	151.16	5426.44	152.94	5426.32	154.95	5426.29
157.05	5426.29	157.13	5426.28	158.98	5426.25	160.99	5426.26	163.05	5426.25
165.05	5426.21	167.02	5426.13	169.04	5426.07	171.05	5426.05	173.04	5426.1
175.05	5426.08	177.01	5426.03	180.99	5425.99	183.05	5425.99	184.97	5425.93
187.14	5425.91	188.94	5425.85	189.15	5425.85	190.93	5425.81	191.05	5425.8
195.05	5425.82	195.19	5425.81	197.2	5425.76	198.89	5425.77	199.05	5425.76
200.88	5425.76	201.22	5425.77	202.86	5425.75	203.23	5425.75	204.85	5425.72
209.27	5425.72	210.82	5425.73	211.05	5425.74	213.05	5425.74	214.8	5425.69
215.3	5425.67	216.78	5425.65	219.33	5425.6	220.76	5425.54	221.34	5425.54
222.75	5425.51	223.35	5425.51	224.74	5425.53	227.05	5425.54	228.72	5425.5
229.38	5425.49	231.05	5425.45	233.05	5425.45	233.41	5425.44	234.68	5425.47
235.42	5425.47	236.67	5425.51	237.43	5425.51	238.66	5425.52	239.44	5425.52
240.65	5425.49	241.45	5425.48	242.64	5425.42	245.05	5425.36	245.48	5425.37
246.61	5425.37	247.49	5425.38	248.6	5425.43	251.51	5425.4	252.58	5425.36
253.52	5425.35	254.57	5425.3	255.05	5425.3	255.54	5425.28	256.56	5425.28
257.55	5425.26	258.54	5425.29	259.56	5425.28	260.53	5425.31	261.57	5425.31
263.05	5425.29	263.58	5425.29	264.51	5425.25	265.59	5425.26	266.5	5425.24
267.05	5425.25	268.49	5425.23	269.62	5425.23	270.48	5425.22	275.05	5425.22
275.65	5425.19	276.44	5425.2	277.66	5425.16	279.05	5425.12	281.05	5425.02
283.05	5424.95	283.7	5424.96	284.4	5424.95	285.05	5424.96	285.71	5424.96
287.05	5424.98	289.05	5424.98	289.73	5424.97	290.36	5424.98	291.05	5424.96
292.35	5424.96	293.05	5424.95	293.76	5424.96	294.34	5424.94	295.05	5424.95
295.77	5424.95	296.33	5424.93	297.05	5424.93	299.05	5424.88	299.79	5424.85
300.3	5424.84	301.05	5424.81	301.8	5424.81	302.29	5424.8	303.82	5424.8
304.28	5424.81	305.83	5424.83	307.05	5424.84	307.84	5424.8	308.26	5424.79
309.85	5424.73	311.05	5424.68	311.86	5424.68	312.24	5424.67	313.05	5424.68
315.05	5424.65	315.89	5424.63	316.21	5424.63	317.05	5424.61	318.2	5424.63
321.05	5424.7	321.92	5424.68	322.18	5424.7	323.93	5424.64	324.17	5424.64
325.05	5424.61	325.94	5424.6	326.16	5424.58	327.96	5424.56	328.14	5424.54
329.05	5424.53	329.97	5424.54	330.13	5424.53	331.05	5424.53	331.98	5424.54
332.12	5424.55	333.05	5424.56	333.99	5424.56	334.11	5424.58	336	5424.58
336.1	5424.6	337.05	5424.59	338.01	5424.57	338.09	5424.58	341.05	5424.52
342.04	5424.49	343.05	5424.45	344.05	5424.4	345.05	5424.34	346.04	5424.33
347.05	5424.31	348.03	5424.3	348.07	5424.29	349.05	5424.28	350.02	5424.24
350.08	5424.17	352.01	5424.09	353.05	5424.04	354	5424.02	354.11	5424.05
355.05	5424.03	355.98	5424.04	356.12	5424.07	357.05	5424.08	357.97	5424.06
358.13	5424.08	359.05	5424.06	359.96	5424.05	360.14	5424.03	361.95	5423.99
362.15	5424.02	363.05	5424	363.94	5423.99	364.16	5423.98	365.05	5423.97
366.18	5423.93	367.92	5423.89	368.19	5423.87	369.05	5423.85	370.2	5423.84
371.05	5423.82	372.21	5423.83	373.88	5423.85	374.22	5423.81	375.05	5423.82
377.05	5423.82	378.25	5423.83	379.85	5423.85	380.26	5423.84	381.05	5423.85
381.84	5423.87	382.27	5423.87	383.82	5423.91	384.28	5423.94	385.81	5423.98
386.29	5424.02	391.05	5424.14	391.78	5424.17	392.33	5424.16	393.77	5424.22
395.05	5424.28	395.76	5424.3	396.35	5424.34	397.74	5424.38	398.36	5424.42
399.73	5424.44	400.37	5424.44	401.05	5424.45	401.72	5424.51	402.39	5424.55
403.05	5424.61	403.71	5424.66	404.4	5424.65	405.05	5424.7	405.7	5424.69
406.41	5424.74	407.05	5424.73	407.69	5424.76	408.42	5424.81	409.05	5424.84
409.68	5424.9	410.43	5424.94	411.05	5424.99	413.05	5425.03	413.65	5425.05
414.46	5425.05	415.64	5425.08	417.05	5425.11	417.63	5425.15	418.48	5425.22
421.05	5425.35	421.61	5425.37	422.5	5425.38	423.05	5425.4	423.6	5425.44
424.51	5425.46	425.58	5425.54	426.53	5425.56	427.05	5425.6	427.57	5425.6
428.54	5425.66	429.56	5425.65	430.55	5425.7	431.55	5425.69	432.56	5425.78
433.05	5425.77	433.54	5425.78	434.57	5425.84	435.53	5425.86	437.05	5425.9
437.52	5425.96	438.6	5426.02	439.05	5426.08	439.5	5426.11	441.49	5426.22
442.62	5426.25	443.05	5426.27	444.63	5426.3	445.47	5426.33	446.64	5426.33
449.05	5426.39	449.45	5426.39	450.66	5426.41	451.05	5426.4	451.44	5426.41
453.05	5426.47	453.42	5426.51	454.69	5426.56	455.05	5426.6	455.41	5426.62
456.7	5426.67	457.05	5426.69	458.71	5426.74	459.39	5426.75	460.72	5426.85
461.38	5426.86	462.73	5426.93	463.05	5426.93	463.37	5426.95	464.75	5426.96
465.36	5426.99	466.76	5426.99	467.34	5427.01	468.77	5427.11	469.33	5427.13
470.78	5427.2	471.32	5427.21	472.79	5427.3	473.31	5427.3	474.8	5427.38
477.05	5427.3	477.29	5427.32	479.05	5427.42	479.27	5427.45	480.84	5427.57
481.26	5427.61	482.85	5427.7	483.25	5427.73	484.86	5427.77	485.24	5427.79
486.87	5427.85	488.89	5427.9	489.05	5427.9	490.9	5428.01	492.91	5428.07
493.19	5428.07	495.18	5427.97	496.93	5427.93	497.17	5427.93	498.94	5427.96
499.16	5427.97	500.96	5428.1	503.14	5428.35	504.98	5428.52	505.05	5428.53
506.99	5428.57	509.05	5428.58	511.01	5428.65	513.05	5428.65	515.04	5428.64
517.05	5428.75	519.05	5429.01	521.03	5429.23	523.02	5429.27	523.42	5429.27

Manning's	n	Values	num=	3
Sta	n	Sta	n	Sta
0	.05	275.05	.035	421.05

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	275.05	421.05		91.98	102.28	204.89		.1	.3

CROSS SECTION

RIVER: Rainbow Trib
 REACH: North-DS-0 RS: 1944

INPUT

Description:

Station	Elevation	Data	num=	490
Sta	Elev	Sta	Elev	Sta
0	5432.6	.95	5432.52	2.07
4.08	5432.32	4.93	5432.32	6.09
8.1	5432.09	8.92	5432.01	9.51

12.12	5431.82	12.9	5431.78	14.13	5431.69	14.89	5431.61	16.14	5431.53
16.88	5431.45	18.14	5431.36	18.87	5431.33	19.51	5431.28	20.15	5431.27
20.86	5431.29	22.16	5431.27	23.51	5431.28	26.18	5431.2	27.51	5431.17
28.19	5431.14	28.83	5431.14	29.51	5431.12	30.2	5431.07	30.82	5431.05
32.21	5430.96	32.81	5430.9	34.21	5430.82	34.8	5430.75	35.51	5430.71
37.51	5430.65	39.51	5430.62	40.24	5430.59	40.78	5430.58	42.25	5430.49
42.77	5430.42	44.26	5430.31	44.76	5430.29	45.51	5430.23	46.27	5430.15
46.75	5430.15	48.28	5429.98	48.74	5429.88	49.51	5429.8	50.28	5429.75
50.73	5429.7	52.29	5429.63	52.73	5429.64	53.51	5429.61	55.51	5429.44
56.31	5429.39	56.71	5429.34	57.51	5429.29	58.7	5429.25	60.33	5429.22
60.69	5429.2	62.34	5429.16	62.68	5429.12	63.51	5429.09	64.35	5429.08
64.67	5429.05	65.51	5429.04	66.35	5429	66.67	5429	68.36	5428.89
68.66	5428.9	69.51	5428.84	70.37	5428.74	70.65	5428.77	71.51	5428.68
72.38	5428.6	72.64	5428.59	73.51	5428.52	74.39	5428.46	74.63	5428.46
76.4	5428.34	76.62	5428.34	77.51	5428.28	78.41	5428.23	78.61	5428.23
79.51	5428.18	80.42	5428.15	80.61	5428.13	81.51	5428.1	82.42	5428.03
82.6	5428.04	83.51	5427.97	85.51	5427.86	86.44	5427.83	86.58	5427.79
87.51	5427.76	88.45	5427.74	88.57	5427.69	90.46	5427.65	90.56	5427.62
91.51	5427.6	93.51	5427.52	94.48	5427.44	94.54	5427.47	95.51	5427.39
97.51	5427.28	98.49	5427.25	99.51	5427.2	100.5	5427.18	101.51	5427.14
102.51	5427.08	103.51	5427.01	105.51	5426.88	106.49	5426.85	107.51	5426.8
110.48	5426.71	111.51	5426.67	112.47	5426.62	112.55	5426.63	113.51	5426.57
114.46	5426.54	114.56	5426.52	115.51	5426.49	116.45	5426.45	116.57	5426.42
117.51	5426.38	118.44	5426.35	118.58	5426.36	119.51	5426.33	120.43	5426.24
120.59	5426.27	121.51	5426.18	123.51	5426.03	124.42	5426.01	124.61	5425.98
125.51	5425.96	126.41	5425.88	126.62	5425.89	128.4	5425.73	128.62	5425.74
129.51	5425.66	131.51	5425.54	132.38	5425.5	132.64	5425.46	133.51	5425.43
135.51	5425.23	136.36	5425.21	136.66	5425.18	137.51	5425.16	138.36	5425.16
138.67	5425.09	139.51	5425.09	140.35	5424.97	140.68	5424.95	141.51	5424.84
142.34	5424.77	142.69	5424.78	143.51	5424.71	144.33	5424.7	144.69	5424.71
145.51	5424.7	146.32	5424.72	146.7	5424.66	147.51	5424.68	149.51	5424.39
150.3	5424.24	150.72	5424.24	151.51	5424.09	152.29	5424.01	152.73	5424
153.51	5423.92	154.29	5423.88	154.74	5423.82	155.51	5423.78	156.75	5423.7
158.27	5423.59	158.76	5423.57	159.51	5423.52	160.26	5423.5	160.76	5423.47
162.25	5423.43	162.77	5423.37	164.24	5423.32	164.78	5423.27	166.23	5423.22
166.79	5423.22	167.51	5423.2	169.51	5423.18	170.22	5423.15	170.81	5423.07
171.51	5423.05	174.2	5422.85	174.83	5422.85	176.19	5422.76	176.83	5422.75
178.18	5422.68	178.84	5422.63	180.17	5422.56	180.85	5422.54	181.51	5422.49
182.17	5422.46	182.86	5422.41	183.51	5422.38	184.16	5422.38	184.87	5422.29
185.51	5422.29	186.15	5422.24	186.88	5422.21	188.89	5422.04	190.13	5421.93
190.9	5421.91	191.51	5421.87	195.51	5421.81	196.92	5421.7	198.1	5421.62
199.51	5421.55	200.94	5421.54	202.95	5421.49	204.07	5421.44	204.96	5421.41
205.51	5421.38	206.97	5421.33	208.05	5421.3	208.97	5421.24	209.51	5421.23
210.04	5421.2	210.98	5421.09	211.51	5421.07	212.04	5421.03	212.99	5421.02
213.51	5420.99	214.03	5420.93	215	5420.91	216.02	5420.77	217.01	5420.57
217.51	5420.49	218.01	5420.46	219.02	5420.35	220	5420.3	221.03	5420.31
221.99	5420.29	223.04	5420.3	223.51	5420.28	225.04	5420.28	225.98	5420.26
227.05	5420.21	227.97	5420.2	229.06	5420.15	229.96	5420.16	231.07	5420.13
231.54	5420.14	233.94	5420.25	235.09	5420.25	235.51	5420.26	237.51	5420.22
239.1	5420.34	239.92	5420.42	241.11	5420.51	243.12	5420.72	243.9	5420.79
245.13	5420.99	245.51	5421.03	247.88	5421.34	249.15	5421.44	249.87	5421.52
251.16	5421.54	251.86	5421.57	253.17	5421.57	253.86	5421.59	255.17	5421.68
255.85	5421.69	257.18	5421.76	257.84	5421.76	259.19	5421.81	259.83	5421.81
261.2	5421.86	263.21	5421.88	263.81	5421.9	265.22	5421.9	265.8	5421.93
267.23	5421.92	267.8	5421.95	269.24	5421.97	269.79	5421.99	271.24	5422.02
271.78	5422.02	273.25	5422.04	273.77	5422.03	275.26	5422.07	275.76	5422.07
277.27	5422.11	277.75	5422.1	279.28	5422.11	279.51	5422.1	283.73	5422.1
285.31	5422.09	289.7	5422.2	291.33	5422.25	291.69	5422.25	293.34	5422.28
293.68	5422.27	295.35	5422.37	297.36	5422.45	297.67	5422.47	299.51	5422.55
301.38	5422.54	301.65	5422.55	303.38	5422.57	305.39	5422.71	307.4	5422.9
307.62	5422.9	309.41	5422.97	309.61	5422.97	311.42	5422.92	313.51	5422.93
315.51	5423.16	317.45	5423.33	317.51	5423.34	319.45	5423.29	319.51	5423.28
321.51	5423.29	323.47	5423.37	325.51	5423.41	327.49	5423.48	331.51	5423.48
333.51	5423.55	335.5	5423.6	337.49	5423.55	339.51	5423.51	341.51	5423.46
343.47	5423.38	345.46	5423.32	347.45	5423.29	347.51	5423.28	349.51	5423.31
351.43	5423.52	353.42	5423.63	355.42	5423.67	357.62	5423.78	359.4	5423.74
361.39	5423.63	361.64	5423.6	363.65	5423.54	365.65	5423.41	367.36	5423.17
367.66	5423.12	369.51	5422.77	369.67	5422.77	371.68	5422.7	373.34	5422.51
373.69	5422.46	375.33	5421.98	375.7	5421.89	377.32	5421.6	377.71	5421.51
379.31	5421.59	379.72	5421.56	381.51	5421.68	383.3	5421.69	383.73	5421.7
385.51	5421.81	385.74	5421.86	387.28	5422.08	387.75	5422.17	389.76	5422.41
391.26	5422.5	391.77	5422.52	393.78	5422.44	395.51	5422.26	397.51	5422.2
399.8	5422.2	401.81	5422.23	403.21	5422.3	403.82	5422.34	405.2	5422.39
407.84	5422.6	409.18	5422.74	409.51	5422.76	411.17	5423	411.51	5423.04
413.51	5423.33	413.86	5423.34	415.16	5423.32	415.51	5423.34	415.87	5423.32
417.15	5423.18	417.51	5423.16	419.51	5423	421.51	5422.91	421.9	5422.92
423.12	5422.98	425.11	5423.06	427.51	5423.18	427.93	5423.19	429.1	5423.28
429.51	5423.29	431.51	5423.38	433.51	5423.52	433.95	5423.58	435.07	5423.8
435.51	5423.87	435.96	5423.98	437.06	5424.16	437.51	5424.28	437.97	5424.34
439.05	5424.51	439.51	5424.57	439.98	5424.57	441.05	5424.76	441.51	5424.76
441.99	5424.72	443.04	5424.58	443.51	5424.53	444	5424.51	445.03	5424.41
445.51	5424.39	448.01	5424.44	449.01	5424.44	450.02	5424.45	451	5424.49
451.51	5424.49	452.03	5424.53	452.99	5424.65	454.04	5424.72	454.99	5424.85
456.05	5424.93	456.98	5425.02	457.51	5425.06	458.06	5425.12	458.97	5425.1
459.51	5425.16	462.07	5425.37	462.95	5425.41	463.51	5425.45	465.51	5425.38
467.51	5425.39	468.1	5425.38	468.92	5425.4	469.51	5425.4	470.11	5425.44
470.92	5425.44	472.12	5425.52	472.91	5425.6	474.13	5425.7	474.9	5425.79
476.13	5425.92	476.89	5426.04	478.14	5426.17	478.88	5426.26	480.15	5426.37
480.87	5426.38	481.51	5426.43	482.16	5426.44	482.86	5426.4	483.51	5426.4
485.51	5426.33	487.51	5426.33	488.19	5426.37	488.84	5426.43	490.2	5426.51
490.83	5426.6	491.51	5426.64	493.51	5426.67	494.21	5426.74	494.81	5426.76
496.8	5426.93	497.51	5426.98	498.23	5427	498.8	5426.99	499.51	5427

501.51	5427.05	502.25	5427.08	502.78	5427.15	503.51	5427.18	504.77	5427.29
506.27	5427.4	507.51	5427.48	508.27	5427.49	508.75	5427.53	509.51	5427.54
510.28	5427.65	510.74	5427.67	511.51	5427.78	513.51	5428.03	513.77	5428.03

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	215	.035
		249.87	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	215	249.87		197.2	195.48		195.53	.1
Ineffective Flow			num=	1				.3
Sta L	Sta R	Elev	Permanent					
357.62	513.77	5423.78	F					

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1749

INPUT

Description:

Station	Elevation	Data	num=	490					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5429.81	.29	5429.81	1.96	5429.77	2.44	5429.65	5.11	5429.51
6.96	5429.34	7.27	5429.33	7.78	5429.25	9.33	5429.03	11.96	5428.7
13.11	5428.63	13.43	5428.59	15.48	5428.47	16.97	5428.43	17.54	5428.4
18.45	5428.32	19.59	5428.21	20.3	5428.12	21.12	5428.03	21.64	5427.96
23.39	5427.79	23.78	5427.76	26.45	5427.65	26.97	5427.65	27.8	5427.61
29.12	5427.51	29.85	5427.44	31.79	5427.23	32.29	5427.17	33.64	5426.99
34.45	5426.93	35.31	5426.85	36.01	5426.8	37.12	5426.7	38.65	5426.55
39.79	5426.49	40.11	5426.45	41.98	5426.43	42.46	5426.4	43.65	5426.37
44.22	5426.31	45.13	5426.19	45.32	5426.2	46.99	5425.98	47.79	5425.91
48.32	5425.85	50.46	5425.66	53.66	5425.53	54.48	5425.49	55.33	5425.42
56.53	5425.31	56.99	5425.26	58.46	5425.12	58.99	5425.08	60.33	5425
61.13	5424.94	62	5424.9	62.69	5424.85	63.67	5424.74	63.8	5424.78
64.74	5424.68	66.8	5424.43	67.89	5424.32	68.85	5424.24	70.9	5424.29
71.8	5424.29	72	5424.3	72.95	5424.3	73.67	5424.28	74.47	5424.3
75.01	5424.29	75.34	5424.26	76.79	5424.25	77.06	5424.24	78.68	5424.12
79.11	5424.08	80.34	5423.99	82.01	5423.85	83.22	5423.76	83.68	5423.7
85.69	5423.54	87.32	5423.46	89.37	5423.38	91.43	5423.19	93.48	5423.01
94.03	5422.99	95.24	5422.93	95.83	5422.91	97.05	5422.9	98.87	5422.8
100.35	5422.68	100.68	5422.63	103.55	5422.39	104.3	5422.32	104.88	5422.23
105.56	5422.16	107.14	5422.03	107.92	5421.99	109.59	5421.99	111.06	5421.91
113.36	5421.83	115.17	5421.74	115.62	5421.71	116.19	5421.65	116.98	5421.62
117.64	5421.55	118.46	5421.52	118.79	5421.47	119.65	5421.44	120.6	5421.34
120.72	5421.37	121.66	5421.27	122.42	5421.22	122.98	5421.14	123.67	5421.1
124.23	5421.1	125.24	5421.03	125.69	5421.03	127.51	5420.94	129.71	5420.81
131.72	5420.66	132.03	5420.62	133.73	5420.43	135.75	5420.21	136.56	5420.17
137.76	5420.1	139.77	5420.02	140.53	5419.98	141.08	5419.88	141.78	5419.85
144.15	5419.61	145.61	5419.48	145.97	5419.44	147.82	5419.35	150.14	5419.27
151.4	5419.27	152.4	5419.24	153.21	5419.19	153.86	5419.18	154.66	5419.14
155.02	5419.09	155.87	5419.05	156.83	5418.97	156.92	5418.99	158.65	5418.85
159.89	5418.77	160.46	5418.71	161.45	5418.65	162.27	5418.58	163.71	5418.43
164.08	5418.4	165.93	5418.19	167.7	5418.14	168.24	5418.05	169.52	5417.96
170.5	5417.74	171.33	5417.49	171.97	5417.35	172.77	5417.15	173.14	5416.92
173.98	5416.72	174.95	5416.52	175.03	5416.55	175.99	5416.35	176.76	5416.3
177.29	5416.3	178.57	5416.24	179.55	5416.23	181.82	5416.18	183.72	5416.16
185.82	5416.18	186.34	5416.18	187.63	5416.15	188.06	5416.16	189.44	5416.14
190.08	5416.12	190.87	5416.13	191.25	5416.17	192.09	5416.18	193.07	5416.25
193.13	5416.23	194.1	5416.3	194.88	5416.33	195.39	5416.37	196.69	5416.45
197.66	5416.59	198.13	5416.63	199.92	5416.91	200.31	5416.95	202.12	5417.09
203.94	5417.09	204.45	5417.1	205.75	5417.09	206.71	5417.09	208.19	5417.1
208.97	5417.12	209.37	5417.1	210.2	5417.12	211.18	5417.13	212.21	5417.13
214.22	5417.18	215.76	5417.31	216.62	5417.39	218.02	5417.41	218.43	5417.44
220.26	5417.37	222.05	5417.39	222.55	5417.41	223.86	5417.42	224.28	5417.44
225.67	5417.41	227.08	5417.41	227.49	5417.44	229.3	5417.45	230.32	5417.47
231.11	5417.43	231.6	5417.43	232.92	5417.37	233.86	5417.36	234.35	5417.34
236.13	5417.39	236.36	5417.39	238.21	5417.49	238.35	5417.49	241.98	5417.73
242.39	5417.75	242.92	5417.74	243.79	5417.8	245.18	5417.77	245.6	5417.77
246.42	5417.74	247.41	5417.75	248.43	5417.8	249.22	5417.86	249.7	5417.92
250.44	5417.98	251.97	5418.07	252.85	5418.09	254.47	5418.16	256.38	5418.18
258.28	5418.19	260.09	5418.16	261.02	5418.16	261.9	5418.12	263.28	5418.13
263.72	5418.08	264.53	5418.09	265.53	5418.09	267.34	5418.14	269.15	5418.2
270.57	5418.23	270.96	5418.23	272.77	5418.28	274.54	5418.35	276.4	5418.38
278.21	5418.45	279.12	5418.46	280.02	5418.54	281.39	5418.53	281.83	5418.57
282.64	5418.56	283.64	5418.58	284.65	5418.59	285.46	5418.58	285.91	5418.55
287.27	5418.53	288.68	5418.49	290.89	5418.53	292.7	5418.54	294.51	5418.52
296.32	5418.53	297.23	5418.56	298.14	5418.53	298.74	5418.57	299.49	5418.55
299.95	5418.55	300.75	5418.53	302.76	5418.55	303.57	5418.53	304.01	5418.58
305.38	5418.55	306.28	5418.57	308.8	5418.55	310.8	5418.61	312.63	5418.73
314.44	5418.78	315.33	5418.79	316.25	5418.79	317.59	5418.82	318.06	5418.89
318.86	5418.91	319.86	5419.01	320.87	5419.1	321.69	5419.15	322.12	5419.21
322.88	5419.26	323.5	5419.24	324.9	5419.18	325.31	5419.14	326.64	5419.09
327.12	5419.04	329.03	5418.91	330.74	5418.8	331.17	5418.79	332.56	5418.72
333.43	5418.74	334.37	5418.7	334.96	5418.73	335.7	5418.75	336.18	5418.72
338.98	5418.83	339.8	5418.9	340.22	5418.91	340.99	5418.97	341.61	5419
343.42	5419.06	345.24	5419.07	347.2	5418.97	349.27	5418.9	350.67	5418.92
351.54	5418.94	352.48	5419	353.07	5419.02	353.8	5419.06	354.29	5419.1
355.08	5419.14	356.06	5419.22	356.11	5419.21	357.92	5419.36	359.1	5419.45
359.73	5419.49	360.59	5419.5	361.54	5419.54	362.85	5419.54	363.13	5419.55
363.35	5419.52	365.14	5419.18	366.97	5418.93	367.38	5418.88	368.79	5418.73

369.64	5418.63	370.6	5418.55	371.18	5418.48	371.9	5418.41	372.41	5418.38
373.19	5418.3	374.17	5418.14	374.22	5418.04	375.2	5417.89	376.03	5417.62
376.43	5417.43	377.21	5417.17	377.84	5417.01	378.69	5416.59	379.23	5416.44
379.66	5416.34	380.95	5416.25	381.47	5416.17	383.25	5416.23	385.26	5416.51
385.48	5416.58	386.9	5416.95	387.28	5417.07	387.74	5417.15	388.71	5417.28
389.29	5417.39	390.01	5417.45	390.53	5417.45	391.3	5417.52	392.27	5417.55
392.34	5417.6	393.31	5417.63	394.15	5417.69	394.53	5417.7	395.32	5417.76
395.96	5417.79	396.79	5417.86	397.34	5417.89	397.77	5417.93	399.35	5418.04
401.32	5418.29	403.21	5418.7	403.58	5418.77	405.02	5419.11	407.4	5419.49
408.11	5419.54	408.64	5419.6	409.41	5419.66	410.37	5419.63	410.45	5419.65
411.42	5419.62	413.43	5419.48	415.45	5419.26	415.89	5419.23	417.16	5419.09
417.46	5419.07	419.42	5419.08	421.32	5419.03	421.48	5419.04	423.13	5419.04
423.95	5419.06	424.94	5419.07	425.51	5419.09	426.21	5419.13	426.76	5419.12
427.52	5419.17	428.48	5419.46	428.57	5419.35	429.53	5419.66	430.38	5419.89
430.91	5420.07	431.71	5420.31	432.19	5420.43	433.35	5420.59	434.07	5420.65
434.8	5420.66	435.95	5420.73	436.25	5420.73	437.24	5420.84	437.7	5420.86
438.8	5421	439.15	5421.02	440.6	5421.07	441.16	5421.07	442.05	5421.01
444.95	5420.73	445.88	5420.66	448.24	5420.45	449.91	5420.47	451.01	5420.46
452.21	5420.47	452.96	5420.44	453.66	5420.46	456.24	5420.6	456.56	5420.58
457.68	5420.66	458.54	5420.67	459.46	5420.7	460.04	5420.7	460.91	5420.76
462.58	5420.91	463.82	5421.09	464.77	5421.19	465.27	5421.27	466.07	5421.35
466.72	5421.43	467.13	5421.46	468.17	5421.47	468.91	5421.55	469.49	5421.58
471.07	5421.63	472.52	5421.69	473.97	5421.69	475.25	5421.77	475.42	5421.8
476.57	5421.86	478.32	5422.04	478.93	5422.08	479.77	5422.11	481.12	5422.24
481.58	5422.23	482.68	5422.17	484.88	5422.08	486.01	5422.06	487.03	5422.12
489.93	5422.34	491.38	5422.42	493.1	5422.4	494.25	5422.42	494.28	5422.38
496.18	5422.45	497.82	5422.59	498.64	5422.67	500.18	5422.87	501.54	5423.01
502.54	5423.1	502.99	5423.15	504.44	5423.16	504.9	5423.19	505.89	5423.29
507.47	5423.46	508.79	5423.61	509.62	5423.76	510.24	5423.79	511.69	5423.82
511.98	5423.81	513.25	5423.86	514.6	5423.92	514.99	5423.95	515.58	5423.95

Manning's n Values num= 3
Sta n Val Sta n Val
0 .05 167.7 .035 202.12 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
167.7 202.12 264.21 246.25 234.9 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
363.13 515.58 5419.55 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1502

INPUT

Description:
Station Elevation Data num= 490
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
0 5422.46 .53 5422.46 1.48 5422.4 1.62 5422.4 2.55 5422.35
3.23 5422.36 4.01 5422.4 4.99 5422.42 6.4 5422.35 6.74 5422.34
8.62 5422.16 8.79 5422.16 10.25 5422.11 11.17 5422.09 12.01 5422.02
12.67 5422.01 13.56 5421.98 13.76 5421.99 14.69 5421.95 15.52 5421.93
15.95 5421.87 16.71 5421.85 17.27 5421.82 18.34 5421.71 20.73 5421.53
20.94 5421.52 22.54 5421.49 24.29 5421.42 24.8 5421.41 25.5 5421.36
26.05 5421.28 26.83 5421.23 27.8 5421.16 27.89 5421.13 28.85 5421.06
29.56 5421.05 30.28 5421 30.87 5421 32.67 5420.93 33.07 5420.91
34.18 5420.82 34.92 5420.75 35.05 5420.75 36.58 5420.6 36.94 5420.57
37.44 5420.55 38.33 5420.55 39.83 5420.48 40.09 5420.48 41.84 5420.38
42.22 5420.38 43.01 5420.33 43.6 5420.31 44.61 5420.24 46.99 5420.11
47.06 5420.1 48.86 5420.05 49.38 5420.01 50.62 5419.98 51.77 5419.89
52.37 5419.83 53.13 5419.78 55.15 5419.66 55.88 5419.62 56.55 5419.52
57.18 5419.48 57.64 5419.43 58.93 5419.33 60.66 5419.13 61.15 5419.06
61.32 5419.07 62.9 5419.01 63.71 5419.04 64.66 5419.11 65.27 5419.13
66.1 5419.1 66.41 5419.12 67.29 5419.09 68.17 5419.01 68.49 5418.96
69.32 5418.88 69.92 5418.85 70.88 5418.82 71.68 5418.78 73.26 5418.73
75.19 5418.56 75.65 5418.54 76.94 5418.47 77.41 5418.45 78.04 5418.47
78.7 5418.48 79.43 5418.5 81.45 5418.52 82.21 5418.38 82.82 5418.34
83.48 5418.22 83.96 5418.15 85.2 5417.91 85.5 5417.87 85.72 5417.87
87.52 5417.62 89.55 5417.49 89.98 5417.45 90.98 5417.31 91.57 5417.25
92.37 5417.18 92.74 5417.12 93.59 5417.05 94.49 5417.03 94.76 5416.98
95.62 5416.96 96.25 5417 97.14 5417.04 97.64 5417.07 99.53 5417.08
99.76 5417.06 101.51 5416.81 103.27 5416.67 104.31 5416.57 105.02 5416.55
105.73 5416.47 106.7 5416.38 106.78 5416.41 107.76 5416.32 108.54 5416.29
109.08 5416.26 110.29 5416.21 111.47 5416.19 112.05 5416.17 113.83 5416.16
115.56 5416.12 116.25 5416.14 117.31 5416.12 117.87 5416.14 118.64 5416.08
119.07 5416.09 120.82 5415.97 121.02 5416.01 121.92 5415.96 122.58 5415.95
123.41 5415.95 124.33 5415.93 125.8 5415.79 126.09 5415.78 127.84 5415.69
128.19 5415.69 129.6 5415.67 130.58 5415.69 131.35 5415.69 132.03 5415.7
133 5415.67 134.11 5415.69 135.83 5415.59 136.82 5415.52 137.71 5415.39
138.66 5415.26 139.54 5415.15 140.08 5415.11 140.67 5415.1 141.5 5415.07
142.25 5415.05 142.91 5415.06 143.64 5415.02 144.33 5414.99 144.96 5414.93
145.74 5414.83 147.16 5414.73 147.67 5414.7 148.57 5414.66 149.56 5414.69
150.38 5414.68 151.4 5414.61 153.09 5414.53 154.24 5414.41 155.8 5414.12
157.07 5414.03 158.45 5413.96 159.28 5413.95 159.9 5413.97 161.23 5413.94
163.94 5413.92 165.56 5413.92 166.65 5413.91 166.98 5413.9 167.33 5413.92
168.39 5413.92 169.81 5413.93 170.29 5413.97 171.22 5413.98 172.07 5414.01
172.64 5413.99 173.26 5414.04 174.05 5414.08 174.78 5414.07 175.47 5414
176.22 5413.94 176.88 5413.84 179.18 5413.58 180.21 5413.48 181.13 5413.42
182.14 5413.22 182.55 5413.19 182.92 5413.18 183.96 5413.21 185.1 5413.16

185.63	5413.15	186.79	5413.15	188.34	5413.02	189.63	5413.08	191.03	5412.92
191.34	5412.9	192.46	5412.92	193.76	5412.78	193.99	5412.76	195.29	5412.71
196.7	5412.59	198.12	5412.55	199.19	5412.54	199.53	5412.53	199.91	5412.48
200.95	5412.32	201.9	5412.14	202.37	5412.08	202.87	5412.06	203.78	5412.04
204.61	5411.98	205.91	5411.93	206.61	5411.87	207.32	5411.85	208.8	5411.79
210.03	5411.76	211.76	5411.74	212.27	5411.76	212.75	5411.79	213.69	5411.8
215.46	5411.73	216.52	5411.72	217.68	5411.74	218.17	5411.76	219.35	5411.84
220.65	5411.91	222.18	5412.02	223.4	5412.24	223.61	5412.27	225.02	5412.4
226.3	5412.65	226.57	5412.69	227.85	5412.82	229.01	5413.02	229.26	5413.04
229.53	5413.09	230.68	5413.18	231.73	5413.36	232.09	5413.38	233.51	5413.62
234.44	5413.87	234.92	5413.99	235.46	5414.07	236.34	5414.18	239.17	5414.6
239.86	5414.78	240.59	5414.93	241.38	5415.11	242	5415.22	243.42	5415.62
244.83	5416.04	245.28	5416	246.25	5415.98	247.3	5415.94	247.99	5415.85
249.08	5415.63	250.27	5415.45	251.91	5415.04	252.95	5414.81	253.42	5414.69
254.58	5414.37	254.95	5414.26	255.11	5414.23	255.48	5414.2	256.49	5414.03
257.27	5413.99	258.02	5414.04	259.13	5414.06	259.56	5414.09	259.86	5414.09
261.09	5414.11	261.59	5414.08	262.62	5414.06	262.79	5413.98	263.75	5413.93
264.16	5413.89	265.15	5413.88	265.91	5413.9	266.44	5413.9	267.23	5413.94
268.07	5413.93	268.76	5413.94	270.23	5413.91	271.83	5413.83	273.36	5413.66
273.74	5413.64	274.89	5413.53	276.43	5413.46	277.96	5413.47	278.88	5413.5
279.5	5413.53	281.02	5413.52	281.05	5413.53	282.56	5413.77	283.2	5413.83
284.1	5414.05	285.63	5414.39	286.31	5414.59	287.17	5414.82	288.35	5415.28
288.7	5415.44	289.68	5415.81	290.23	5416.03	291.59	5416.44	291.84	5416.5
292.01	5416.49	293.3	5416.53	294	5416.5	294.83	5416.33	296.16	5416.03
296.37	5415.96	296.88	5415.85	297.9	5415.66	298.32	5415.6	299.31	5415.44
299.44	5415.44	300.48	5415.27	300.97	5415.21	302.17	5414.99	302.5	5414.94
302.96	5414.91	304.04	5414.88	304.8	5414.81	306.62	5414.84	307.11	5414.86
308.64	5414.9	310.17	5414.93	310.27	5414.96	311.28	5414.98	313.24	5415.11
315.6	5415.39	316.31	5415.52	317.84	5415.86	319.38	5416.32	320.91	5416.81
321.23	5416.86	322.08	5417.13	323.32	5417.33	323.98	5417.45	324.24	5417.47
324.88	5417.49	325.51	5417.52	326.41	5417.55	327.05	5417.56	328.53	5417.5
330.11	5417.49	330.73	5417.47	331.65	5417.42	332.19	5417.46	332.89	5417.44
333.18	5417.44	333.9	5417.38	334.71	5417.33	335.05	5417.3	335.84	5417.29
336.25	5417.32	337.21	5417.29	337.78	5417.3	339.19	5417.34	339.49	5417.36
340.85	5417.49	341.53	5417.53	342.38	5417.53	343.14	5417.6	343.69	5417.61
344.48	5417.57	345.45	5417.53	345.85	5417.53	346.8	5417.58	346.99	5417.58
348.01	5417.64	350.05	5417.85	350.45	5417.88	351.59	5417.99	352.33	5418.05
353.12	5418.08	354.1	5418.21	354.65	5418.25	356.19	5418.3	356.65	5418.33
357.72	5418.35	357.76	5418.38	358.81	5418.41	360.34	5418.47	360.83	5418.51
362.49	5418.71	362.63	5418.72	363.81	5418.75	364.51	5418.76	366.24	5418.9
366.52	5418.91	368.04	5419.04	369.16	5419.11	369.84	5419.18	371.44	5419.27
371.64	5419.27	372.56	5419.32	375.25	5419.37	376.59	5419.4	377.05	5419.46
378.29	5419.57	380.66	5419.86	381	5419.87	382.46	5419.93	382.85	5419.95
384.26	5419.92	385.13	5419.95	386.06	5420.02	386.66	5420.04	387.41	5420.09
387.87	5420.13	388.67	5420.18	389.67	5420.19	389.69	5420.23	391.47	5420.25
391.97	5420.24	393.27	5420.26	394.71	5420.29	395.08	5420.29	396.88	5420.35
398.68	5420.42	398.81	5420.42	400.48	5420.5	401.09	5420.55	402.29	5420.61
403.38	5420.7	404.09	5420.73	404.78	5420.8	405.66	5420.87	405.89	5420.87
406.79	5420.94	407.69	5420.93	407.94	5420.95	408.81	5420.93	409.5	5420.94
410.22	5420.9	411.3	5420.92	412.5	5420.83	413.1	5420.84	414.78	5420.95
414.9	5420.95	417.06	5421	418.51	5421.02	418.88	5421.05	419.34	5421.05
420.31	5421.08	420.89	5421.09	422.11	5421.15	422.9	5421.2	423.9	5421.23
424.92	5421.29	425.72	5421.32	426.19	5421.32	426.93	5421.35	427.52	5421.35
428.47	5421.44	428.95	5421.44	429.32	5421.46	430.75	5421.52	432.55	5421.61
433.03	5421.63	434.73	5421.65	435.31	5421.67	436.53	5421.78	437	5421.8
437.59	5421.78	438.34	5421.83	439.01	5421.81	439.87	5421.88	440.14	5421.83
441.03	5421.91	441.94	5421.97	442.15	5421.92	443.04	5421.97	443.43	5421.97

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .05 174.78 .035 236.34 .05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
174.78 236.34 101.65 133.94 152.98 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
244.82 292.13 5416.04 F
293.3 325.1 5416.53 F

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1369

INPUT
Description:
Station Elevation Data num= 490
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
0 5420.99 .55 5420.97 1.64 5420.96 5.24 5420.89 6.53 5420.86
7.54 5420.81 8.66 5420.74 9.29 5420.72 9.93 5420.72 11.49 5420.66
13.05 5420.59 14.62 5420.56 15.93 5420.5 16.18 5420.51 17.16 5420.46
19.25 5420.39 21.41 5420.39 23.99 5420.35 25.89 5420.26 27.12 5420.19
28.68 5420.11 30.25 5420 31.17 5419.95 32.53 5419.89 33.37 5419.87
34.17 5419.83 36.5 5419.64 38.06 5419.59 39.18 5419.57 39.62 5419.58
41.19 5419.53 42.5 5419.41 44.31 5419.32 46.92 5419.29 49.14 5419.19
51.17 5419.14 52.13 5419.17 52.46 5419.16 53.69 5419.18 54.79 5419.15
55.78 5419.1 56.82 5419.01 58.38 5418.93 59.1 5418.86 61.51 5418.68
63.93 5418.58 64.63 5418.57 65.74 5418.48 66.05 5418.48 66.6 5418.44
68.18 5418.35 69.07 5418.33 69.32 5418.3 70.89 5418.28 72.43 5418.27
74.01 5418.17 75.57 5418.12 75.71 5418.1 76.68 5418.06 77.14 5418.07
78.41 5418.04 78.81 5418.05 80.26 5417.99 80.93 5417.97 83.06 5417.78

84.31	5417.7	85.18	5417.66	87.31	5417.62	88.99	5417.57	89.64	5417.56
91.56	5417.47	92.77	5417.42	93.68	5417.37	96.12	5417.22	97.94	5417.13
98.95	5417.07	99.02	5417.08	102.28	5416.91	103.71	5416.91	105.27	5416.89
105.6	5416.87	106.44	5416.86	106.83	5416.83	107.94	5416.82	108.92	5416.8
109.96	5416.74	110.69	5416.73	111.52	5416.68	112.24	5416.62	113.09	5416.58
114.65	5416.45	115.56	5416.41	116.21	5416.35	117.07	5416.33	117.78	5416.3
118.88	5416.32	120.9	5416.31	122.46	5416.22	123.44	5416.15	124.03	5416.09
125.57	5416.04	127.15	5415.93	130.28	5415.77	131.56	5415.7	132.16	5415.68
133.41	5415.68	134.07	5415.65	134.97	5415.64	135.49	5415.58	136.2	5415.57
136.53	5415.53	137.46	5415.45	138.81	5415.37	139.66	5415.33	140.45	5415.28
141.22	5415.27	142.13	5415.22	142.78	5415.22	144.35	5415.25	144.7	5415.24
145.45	5415.18	145.91	5415.17	146.82	5415.09	147.47	5415.05	148.77	5415.02
149.04	5415	150.6	5415.01	151.08	5414.99	152.09	5414.92	152.16	5414.95
153.72	5414.84	155.18	5414.7	157.45	5414.59	159.58	5414.52	162.05	5414.46
163.1	5414.41	163.83	5414.41	164.67	5414.36	165.37	5414.35	166.99	5414.29
168.08	5414.24	169.36	5414.15	170.92	5414.07	172.02	5413.97	172.89	5413.92
174.04	5413.88	175.34	5413.87	175.61	5413.88	176.58	5413.86	177.17	5413.87
178.8	5413.79	180.3	5413.74	182.96	5413.57	183.42	5413.56	184.99	5413.5
187.21	5413.37	189.34	5413.28	189.67	5413.26	191.94	5413.22	192.8	5413.17
194.36	5413.16	195.26	5413.12	195.93	5413.11	196.52	5413.08	197.84	5413.04
198.58	5413.03	199.05	5413.08	199.97	5413.04	200.62	5413.04	202.18	5412.99
202.42	5412.99	205.23	5412.91	205.3	5412.88	206.87	5412.83	208.47	5412.76
210.59	5412.68	211.56	5412.68	211.87	5412.71	213.12	5412.71	215.19	5412.62
216.25	5412.53	216.97	5412.5	217.81	5412.5	218.51	5412.54	220.14	5412.53
221.22	5412.48	221.83	5412.48	222.5	5412.44	224.06	5412.46	225.15	5412.5
226.04	5412.49	227.6	5412.44	228.47	5412.4	229.72	5412.36	231.95	5412.22
233.98	5412.19	235	5412.2	235.11	5412.18	236.1	5412.19	237.85	5412.17
240.35	5412.17	241.25	5412.12	242.48	5412.07	245.08	5412.07	245.94	5412.03
246.73	5412.04	248.4	5412	249.07	5411.97	250.63	5411.79	250.98	5411.77
251.72	5411.79	252.19	5411.75	253.11	5411.79	253.76	5411.84	255.04	5411.88
255.32	5411.9	256.88	5411.96	258.36	5411.94	258.45	5411.96	259.48	5411.93
260.01	5411.9	261.48	5411.84	263.14	5411.76	263.73	5411.75	264.7	5411.69
265	5411.7	265.86	5411.65	267.38	5411.6	268.32	5411.54	269.39	5411.45
270.11	5411.4	270.95	5411.36	271.65	5411.37	272.51	5411.34	274.36	5411.31
275.64	5411.26	277.2	5411.21	278.61	5411.18	279.19	5411.18	280.33	5411.16
280.74	5411.17	281.61	5411.12	281.89	5411.14	282.86	5411.07	283.46	5411.04
285.1	5410.9	286.58	5410.86	288.14	5410.83	288.25	5410.85	289.24	5410.83
289.71	5410.84	291.27	5410.71	292.83	5410.7	294.4	5410.74	294.89	5410.77
295.96	5410.8	296.91	5410.77	298.21	5410.71	299.09	5410.68	300.65	5410.6
301.53	5410.58	302.81	5410.51	303.77	5410.43	304.86	5410.41	305.34	5410.37
306.9	5410.35	308.18	5410.36	310.03	5410.35	311.5	5410.3	311.59	5410.31
314.62	5410.17	316.28	5410.14	316.87	5410.16	317.84	5410.17	318.14	5410.24
319	5410.27	319.4	5410.27	320.53	5410.37	321.13	5410.4	321.46	5410.39
322.53	5410.4	323.25	5410.38	324.09	5410.29	324.78	5410.31	325.38	5410.26
326.43	5410.23	327.22	5410.19	328.1	5410.25	328.78	5410.27	329.63	5410.34
330.35	5410.36	331.42	5410.36	332.34	5410.39	333.47	5410.39	333.88	5410.41
334.74	5410.48	335.03	5410.45	336	5410.54	336.6	5410.54	338.07	5410.6
339.72	5410.6	340.26	5410.62	341.29	5410.63	341.39	5410.62	342.85	5410.63
344.51	5410.56	345.98	5410.63	346.63	5410.65	347.54	5410.72	348.03	5410.74
348.76	5410.8	350.66	5410.92	352.23	5410.99	353.01	5411.04	353.79	5411.07
355.14	5411.17	356.92	5411.18	357.26	5411.2	360.04	5411.24	361.31	5411.39
361.87	5411.42	363.64	5411.49	364.63	5411.5	364.73	5411.52	366.3	5411.54
367.77	5411.47	369.42	5411.47	370.01	5411.48	370.98	5411.54	371.28	5411.54
372.14	5411.59	374.6	5411.72	375.67	5411.75	376.39	5411.8	378.52	5411.85
378.8	5411.87	379.58	5411.88	380.64	5411.92	381.24	5411.91	382.77	5411.91
384.56	5411.92	385.05	5411.93	386.61	5412	388.18	5412.02	389.74	5412.02
391.39	5412.01	394.43	5412.12	394.52	5412.11	395.99	5412.17	397.3	5412.17
397.65	5412.16	399.12	5412.22	399.77	5412.26	400.68	5412.23	401.16	5412.29
401.9	5412.29	403.2	5412.31	404.49	5412.3	405.37	5412.27	406.15	5412.27
406.93	5412.21	407.81	5412.19	408.28	5412.16	409.11	5412.15	410.4	5412.15
411.13	5412.18	412.53	5412.22	413.19	5412.25	415.02	5412.26	416.78	5412.24
417.77	5412.3	417.87	5412.25	418.9	5412.33	419.44	5412.35	421.03	5412.35
422.56	5412.3	423.15	5412.31	424.13	5412.35	424.41	5412.34	425.28	5412.38
427.73	5412.4	428.82	5412.39	430.38	5412.43	431.05	5412.44	431.94	5412.47
432.73	5412.45	434.37	5412.44	435.07	5412.46	435.91	5412.45	436.63	5412.46
438.19	5412.45	441.32	5412.59	442.88	5412.65	444.41	5412.66	446.01	5412.72
448.66	5412.74	449.13	5412.76	450.45	5412.77	452.91	5412.82	453.82	5412.86
454.3	5412.9	457.16	5413.05	459.29	5413.05	460.08	5413.1	460.94	5413.05
461.64	5413.08	462.26	5413.07	463.54	5413.1	464.26	5413.14	464.77	5413.19
466.33	5413.26	467.58	5413.24	469.45	5413.28	469.92	5413.28	472.58	5413.37
474.17	5413.4	475.71	5413.45	476.3	5413.46	477.27	5413.53	477.55	5413.47
478.83	5413.54	479.98	5413.59	480.87	5413.64	481.96	5413.75	482.67	5413.77
484.19	5413.78	485.88	5413.82	488.21	5413.9	489.77	5413.93	490.83	5413.94
491.34	5413.96	492.9	5414.09	494.15	5414.14	494.46	5414.2	495.43	5414.21
496.03	5414.23	497.69	5414.24	499.15	5414.3	502.28	5414.42	503.93	5414.44
505.4	5414.52	506.05	5414.58	506.97	5414.62	507.44	5414.66	508.53	5414.71
510.09	5414.7	510.76	5414.73	511.66	5414.74	512.43	5414.79	513.22	5414.88
514.08	5414.95	514.78	5415.02	516.68	5415.07	517.4	5415.07	517.91	5415.11
518.81	5415.1	519.47	5415.14	520.93	5415.21	522.6	5415.25	524.04	5415.25
524.16	5415.24	525.72	5415.26	527.31	5415.3	528.85	5415.35	530.41	5415.36
530.68	5415.34	531.97	5415.35	533.12	5415.39	533.69	5415.43	534	5415.43
535.1	5415.55	535.81	5415.55	536.66	5415.57	537.32	5415.6	539.03	5415.64
540.06	5415.7	541.35	5415.74	542.19	5415.75	542.92	5415.78	544.31	5415.81
544.93	5415.84	546.44	5415.88	547.29	5415.88	547.6	5415.9	549.17	5415.91
550.61	5415.89	552.82	5415.89	553.86	5415.94	553.93	5415.93	555.14	5415.97

Manning's	n	Values	num=	3		
Sta	n	Val	Sta	n	Val	Sta
0	.05	258.45	.035	366.3	.05	
Bank Sta:	Left	Right	Lengths:	Left	Channel	Right
	258.45	366.3		154.97	158.15	160.47
						Coeff
						Contr.
						.1
						Expan.
						.3

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1210

Description:

Station	Elevation	Data num=
Sta Elev	Sta Elev	Sta Elev
0 5417.61	.15 5417.61	.56 5417.56
2.5 5417.23	4.43 5416.94	6.15 5416.72
8.31 5416.6	10.05 5416.47	10.24 5416.45
14.15 5416.05	16.05 5416.13	16.26 5416.13
19.93 5416.02	20.4 5416	21.86 5415.91
24.16 5415.81	24.54 5415.77	25.74 5415.72
28.16 5415.52	28.68 5415.49	29.61 5415.41
32.16 5415.39	32.82 5415.41	33.48 5415.41
35.42 5415.34	36.17 5415.31	36.96 5415.27
39.03 5415.1	39.29 5415.09	40.17 5415.01
42.17 5414.76	43.17 5414.59	44.17 5414.4
46.17 5414.05	47.04 5414.01	48.17 5413.94
50.17 5413.85	50.91 5413.88	51.46 5413.89
53.53 5413.96	54.18 5413.99	56.18 5413.99
58.18 5413.91	58.66 5413.91	59.74 5413.97
62.53 5413.92	63.88 5413.85	64.47 5413.82
68.34 5413.47	70.09 5413.25	72.16 5413.15
76.09 5413	76.3 5412.98	78.02 5412.9
80.19 5412.74	81.9 5412.67	82.19 5412.65
84.19 5412.65	84.58 5412.65	85.77 5412.58
87.71 5412.46	88.2 5412.43	88.72 5412.41
91.58 5412.33	92.2 5412.28	92.86 5412.25
94.93 5412.17	95.45 5412.16	96.2 5412.13
98.2 5411.91	99.07 5411.82	99.33 5411.73
101.26 5411.51	102.2 5411.45	103.2 5411.32
105.28 5411.19	106.21 5411.14	107.35 5411.11
110.21 5410.98	110.94 5410.99	111.49 5410.94
113.56 5410.9	114.21 5410.86	114.82 5410.78
116.75 5410.62	117.7 5410.48	118.21 5410.47
120.21 5410.42	120.63 5410.42	121.84 5410.49
123.91 5410.52	124.5 5410.55	125.98 5410.55
128.05 5410.6	128.37 5410.58	128.44 5410.59
130.93 5410.57	131.5 5410.54	132.3 5410.54
134.34 5410.51	134.88 5410.49	136.1 5410.47
137.48 5410.48	138.26 5410.49	138.68 5410.5
141.26 5410.42	141.65 5410.41	142.51 5410.37
144.56 5410.15	146.72 5410.01	147.28 5409.98
150.1 5409.79	150.69 5409.76	151.58 5409.69
153.4 5409.61	154.16 5409.58	154.77 5409.55
158.55 5409.16	159.33 5409.04	160.24 5408.94
163.62 5408.34	164.49 5408.16	165.31 5408.01
168.69 5407.31	169.07 5407.21	169.65 5407.12
172.08 5406.69	172.23 5406.72	173.16 5406.55
175.2 5406.18	175.46 5406.1	176.68 5405.52
177.39 5405.16	178.84 5404.03	214.02 5404.03
216.06 5404.05	217.72 5404.23	218.1 5404.29
220.15 5405.19	221.1 5405.67	221.27 5405.74
223.85 5406.6	224.23 5406.7	225.68 5406.96
227.86 5407.36	228.32 5407.46	229.01 5407.57
231.25 5408	231.6 5408.09	232.94 5408.37
235.48 5408.76	236.32 5408.91	236.76 5408.97
239.34 5409.5	239.7 5409.56	240.58 5409.78
242.62 5410.32	244.5 5410.65	244.77 5410.7
246.71 5410.82	248.15 5411.13	249.66 5411.43
251.53 5411.75	252.24 5411.81	252.82 5411.85
255.08 5412.02	256.6 5412.3	256.92 5412.38
258.96 5412.77	259.99 5412.93	261.01 5413.03
263.05 5413.14	263.37 5413.15	265.06 5413.24
267.73 5413.29	268.44 5413.33	269.18 5413.31
271.43 5413.34	271.54 5413.33	271.73 5413.35
274.45 5413.49	275.49 5413.6	275.9 5413.62
277.35 5413.71	278.47 5413.81	278.8 5413.83
280.87 5413.86	281.7 5413.9	283.02 5413.94
284.6 5413.95	285.6 5413.86	286.05 5413.83
287.96 5413.87	288.96 5413.96	289.93 5413.99
292.68 5414.02	293.31 5414	294.31 5414.05
296.26 5414.08	297.4 5414.12	298.08 5414.18
300.56 5414.35	301.84 5414.37	302.12 5414.38
304.48 5414.32	304.91 5414.28	

360.05	5415.25	361.14	5415.23	361.5	5415.21	362.07	5415.24	362.95	5415.27
364.4	5415.3	365.83	5415.24	367.3	5415.2	368.22	5415.21	368.75	5415.21
369.6	5415.2	370.2	5415.21	370.58	5415.19	371.65	5415.16	372.25	5415.08
373.36	5415.03	374.56	5415.02	375.31	5414.95	376.01	5414.92	377.12	5414.84
377.67	5414.81	378.58	5414.81	378.91	5414.78	380.03	5414.81	380.36	5414.83
380.89	5414.88	382.39	5415.01	383.26	5415.1	384.65	5415.25	386.16	5415.37
387.11	5415.42	387.61	5415.43	389.06	5415.54	389.47	5415.55	390.52	5415.62
391.24	5415.6	391.83	5415.62	391.97	5415.61	393.42	5415.54	394.19	5415.53
394.87	5415.51	395.39	5415.51						

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	160.24	.013
		236.76	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	160.24	236.76		146.34	142.86	147.41	.1	.3

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1068

INPUT

Description:

Station	Elevation	Data	num=	362	Sta	Elev	Sta	Elev	Sta	Elev
0	5413.79	.12	5413.79	.46	5413.73	1.94	5413.51	2.13	5413.47	
2.29	5413.45	3.75	5413.25	4.11	5413.2	4.14	5413.2	5.93	5413.13	
6.15	5413.12	6.43	5413.1	7.75	5413.19	8.16	5413.17	8.68	5413.14	
9.57	5413.12	10.18	5413.1	10.93	5413.05	11.39	5413.05	12.19	5413	
13.17	5412.97	13.21	5412.96	14.2	5412.94	15.03	5412.84	15.42	5412.8	
16.21	5412.71	16.85	5412.61	17.66	5412.54	18.22	5412.45	18.67	5412.39	
19.91	5412.42	20.23	5412.38	20.49	5412.37	22.15	5412.3	22.24	5412.3	
22.98	5412.28	24.13	5412.24	24.25	5412.23	24.4	5412.21	25.95	5412.04	
26.26	5411.99	26.65	5411.96	27.77	5411.79	28.27	5411.75	28.89	5411.68	
29.59	5411.54	30.28	5411.47	31.14	5411.36	31.41	5411.33	32.3	5411.22	
33.23	5411.14	33.38	5411.13	34.31	5411.05	35.05	5411.05	35.63	5410.96	
36.32	5410.95	36.88	5410.94	37.87	5410.83	38.33	5410.82	38.7	5410.79	
40.12	5410.66	40.34	5410.64	40.52	5410.62	42.21	5410.55	42.34	5410.55	
44.16	5410.53	44.36	5410.51	44.61	5410.5	45.98	5410.47	46.37	5410.46	
46.86	5410.43	47.8	5410.36	48.38	5410.32	49.1	5410.29	49.62	5410.22	
50.39	5410.19	51.35	5410.18	51.44	5410.17	52.4	5410.16	53.26	5410.14	
53.59	5410.12	54.42	5410.1	55.08	5410.05	55.84	5410.04	56.43	5409.99	
56.9	5409.97	58.09	5409.93	58.44	5409.92	58.72	5409.89	60.33	5409.86	
60.45	5409.85	60.54	5409.84	61.44	5409.81	62.36	5409.77	62.46	5409.76	
62.58	5409.76	64.18	5409.6	64.47	5409.58	64.82	5409.55	66	5409.45	
66.48	5409.41	67.07	5409.39	67.82	5409.33	68.49	5409.31	69.32	5409.29	
69.64	5409.27	70.5	5409.25	71.46	5409.21	71.56	5409.21	72.51	5409.17	
73.29	5409.14	73.81	5409.04	74.52	5409	75.11	5408.97	76.05	5408.88	
76.54	5408.85	76.93	5408.79	78.3	5408.44	78.55	5408.4	78.75	5408.37	
80.54	5408.13	80.67	5408.12	82.39	5407.95	82.57	5407.93	82.79	5407.93	
84.21	5407.67	84.58	5407.67	85.04	5407.65	86.03	5407.73	86.59	5407.7	
87.28	5407.63	87.85	5407.68	88.6	5407.6	89.53	5407.47	89.67	5407.4	
90.61	5407.28	91.49	5407.14	91.77	5407.14	92.62	5407.01	93.31	5406.95	
94.02	5406.85	94.63	5406.8	95.13	5406.82	96.26	5406.62	96.64	5406.63	
96.95	5406.59	98.51	5406.45	98.66	5406.43	98.77	5406.39	99.9	5406.21	
100.59	5406.08	100.67	5406.07	100.76	5406.06	102.41	5405.66	102.68	5405.62	
103	5405.56	104.23	5405.42	104.69	5405.34	105.05	5405.25	106.53	5405.06	
106.7	5405.02	106.84	5405	107.94	5404.8	108.63	5404.67	108.72	5404.65	
108.83	5404.62	110.43	5404.25	110.73	5404.18	111.13	5404.08	112.22	5403.83	
112.75	5403.71	113.43	5403.63	114.01	5403.51	114.77	5403.43	115.73	5403.31	
115.8	5403.25	116.78	5403.13	117.6	5403	118.04	5402.93	118.8	5402.81	
119.39	5402.72	120.34	5402.57	120.81	5402.49	121.18	5402.44	122.64	5402.21	
122.83	5402.18	122.97	5402.16	124.14	5401.99	124.77	5401.92	124.84	5401.9	
124.94	5401.89	126.56	5401.71	126.86	5401.68	127.24	5401.38	128.35	5401.53	
134.9	5401.09	135	5391.09	145	5391.09	145.1	5401.09	152.56	5401.18	
153.06	5401.28	153.44	5401.27	154.86	5401.31	155.07	5401.31	155.24	5401.32	
156.55	5401.4	157.03	5401.43	157.09	5401.43	158.82	5401.38	159.1	5401.4	
159.47	5401.4	160.61	5401.53	161.77	5401.53	162.41	5401.64	163.14	5401.63	
164.07	5401.8	164.2	5401.73	165.15	5401.92	165.99	5402.01	166.37	5402.16	
167.17	5402.26	167.78	5402.3	168.67	5402.33	169.18	5402.36	169.58	5402.38	
170.98	5402.54	171.2	5402.56	171.37	5402.58	172.75	5402.92	173.16	5403.02	
173.21	5403.03	174.95	5403.45	175.23	5403.47	175.58	5403.48	176.12	5403.53	
176.62	5403.57	178.01	5403.66	178.05	5403.67	178.07	5403.67	179.49	5403.87	
180.49	5404.04	180.93	5404.07	181.55	5404.14	182.36	5404.2	182.93	5404.23	
183.8	5404.25	185.04	5404.33	185.24	5404.33	185.38	5404.34	186.17	5404.48	
186.67	5404.58	187.82	5404.76	188.11	5404.79	188.52	5404.81	189.54	5404.9	
190.26	5405.01	190.98	5405.11	192.01	5405.22	192.42	5405.25	192.7	5405.27	
193.85	5405.34	194.33	5405.41	195.14	5405.47	195.29	5405.48	195.49	5405.5	
196.72	5405.62	197.59	5405.72	198.16	5405.79	198.98	5405.87	199.6	5405.91	
200.03	5405.93	201.03	5405.97	202.46	5406.06	202.49	5406.07	203.9	5406.12	
204.91	5406.16	205.34	5406.19	205.95	5406.27	206.78	5406.36	207.36	5406.44	
208.21	5406.54	209.43	5406.78	209.65	5406.8	209.8	5406.81	210.65	5406.84	
211.08	5406.74	212.24	5406.87	212.52	5406.87	212.92	5406.89	213.95	5406.91	
214.68	5406.93	215.39	5407.01	216.4	5407	216.83	5407.02	217.12	5407.02	
218.26	5407.09	218.81	5407.16	219.57	5407.22	219.7	5407.23	219.89	5407.25	
221.13	5407.41	222.01	5407.51	222.57	5407.56	223.37	5407.63	224.01	5407.71	
224.45	5407.75	225.44	5407.83	226.86	5407.92	226.97	5407.92	228.31	5407.93	
229.33	5408.02	229.75	5408.04	230.34	5408.09	231.19	5408.14	231.78	5408.18	
232.62	5408.15	233.83	5408.19	234.06	5408.19	234.22	5408.2	235.13	5408.25	
235.49	5408.25	236.66	5408.33	236.93	5408.36	237.31	5408.38	238.37	5408.46	

239.1	5408.5	241.24	5408.5	241.55	5408.52	242.67	5408.61	243.3	5408.7
243.99	5408.77	244.11	5408.78	244.28	5408.8	245.55	5408.89	246.43	5408.91
246.98	5408.93	247.77	5408.93	248.42	5408.92	248.87	5408.92	249.85	5408.94
251.25	5408.99	253.76	5408.99	254.16	5408.98	254.74	5408.97	255.6	5408.94
256.2	5408.95	257.03	5408.95	258.22	5409.01	258.47	5409.02	258.64	5409.05
259.62	5409.04	259.9	5409.11	261.08	5409.06	261.34	5409.07	261.71	5409.08
262.78	5409.11	263.52	5409.07	264.21	5409.08	265.19	5409.14	265.65	5409.2
265.97	5409.24	266.39	5409.24						

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	134.9	.013
		145.1	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	134.9	145.1		68.39	67.52		.3	.3
					67.48			

CROSS SECTION

RIVER: Rainbow Trib
REACH: North-DS-0 RS: 1000

INPUT

Description:

Station	Elevation	Data	num=	368					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	5414.02	.19	5414.02	.63	5413.99	1.12	5413.96	2.1	5413.88
2.63	5413.85	3.22	5413.81	4.02	5413.71	4.64	5413.67	5.32	5413.53
5.93	5413.46	6.64	5413.31	7.41	5413.17	7.85	5413.11	8.64	5412.97
9.51	5412.9	9.76	5412.82	10.64	5412.75	11.61	5412.59	11.68	5412.61
12.64	5412.45	13.59	5412.37	13.7	5412.32	14.65	5412.24	15.51	5412.19
15.8	5412.2	16.65	5412.15	17.42	5412.08	17.9	5412.07	18.65	5411.99
19.34	5411.96	19.99	5411.88	20.65	5411.85	21.26	5411.83	22.09	5411.73
22.66	5411.71	23.17	5411.7	24.19	5411.66	24.66	5411.65	25.09	5411.66
26.28	5411.69	26.66	5411.7	27	5411.71	28.38	5411.76	28.66	5411.77
28.92	5411.76	30.48	5411.65	30.66	5411.65	30.83	5411.63	32.58	5411.56
32.67	5411.56	32.75	5411.54	34.57	5411.32	34.66	5411.31	36.58	5411.04
36.67	5411.03	36.77	5411.02	38.49	5410.88	38.67	5410.85	38.87	5410.85
40.41	5410.82	40.67	5410.81	40.96	5410.81	42.33	5410.76	42.68	5410.76
43.06	5410.75	44.24	5410.71	44.68	5410.7	45.16	5410.69	46.16	5410.67
46.68	5410.65	47.25	5410.59	48.07	5410.6	48.68	5410.53	49.35	5410.47
49.99	5410.42	50.68	5410.35	51.45	5410.27	51.9	5410.2	52.69	5410.12
53.54	5410.11	53.82	5410.14	54.69	5410.12	55.64	5410.08	55.73	5410.07
56.69	5410.03	57.65	5410	57.74	5409.97	58.69	5409.93	59.56	5409.9
59.83	5409.87	60.69	5409.83	61.48	5409.76	61.93	5409.79	62.7	5409.72
63.39	5409.68	64.03	5409.69	64.7	5409.66	65.31	5409.63	66.13	5409.55
66.7	5409.52	67.23	5409.49	68.22	5409.42	68.7	5409.4	69.14	5409.39
70.32	5409.37	70.7	5409.36	71.06	5409.36	72.42	5409.21	72.71	5409.21
72.97	5409.2	74.51	5409.04	74.71	5409.04	74.89	5408.99	76.61	5408.79
76.71	5408.77	76.8	5408.75	78.71	5408.4	78.84	5408.37	80.63	5407.84
80.71	5407.82	80.8	5407.8	82.55	5407.24	82.72	5407.2	82.9	5407.17
84.46	5407.02	84.72	5406.98	85	5406.94	86.38	5406.77	86.72	5406.73
87.09	5406.67	88.3	5406.39	88.72	5406.33	89.19	5406.2	90.21	5405.88
90.72	5405.73	91.29	5405.49	92.13	5405.22	92.73	5404.96	93.26	5404.81
94.52	5404.51	94.77	5404.44	94.93	5404.41	95.63	5404.25	96.61	5404.04
96.82	5403.98	97.17	5403.9	98.28	5403.58	98.87	5403.44	99.82	5403.32
99.95	5403.16	100.92	5403.06	101.62	5402.99	102.46	5402.92	102.97	5402.87
103.3	5402.84	104.73	5402.65	104.97	5402.61	105.03	5402.6	105.11	5402.59
106.64	5402.31	107.08	5402.23	107.76	5402.06	108.32	5401.92	109.13	5401.73
109.99	5401.51	110.4	5401.39	111.18	5401.19	111.66	5401.15	113.05	5401.04
113.23	5401.03	113.34	5401.02	113.83	5400.74	124.9	5400.3	125	5386
135	5386	135.1	5400.3	144.81	5400.38	145.12	5400.33	146.03	5400.48
146.8	5400.48	147.46	5400.46	148.08	5400.46	148.47	5400.44	150.11	5400.31
150.13	5400.31	151.82	5400.54	152.18	5400.53	152.75	5400.49	153.49	5400.53
154.23	5400.47	155.16	5400.45	155.4	5400.54	156.28	5400.54	156.84	5400.61
158.05	5400.76	158.33	5400.8	158.51	5400.81	159.3	5400.93	160.18	5401.03
160.38	5401.04	160.69	5401.05	161.85	5401.15	162.43	5401.17	163.34	5401.26
163.53	5401.23	164.48	5401.32	165.2	5401.38	165.99	5401.46	166.53	5401.5
166.87	5401.51	168.4	5402.05	168.55	5402.09	168.58	5402.09	170.22	5402.16
170.63	5402.2	171.28	5402.26	171.89	5402.15	172.68	5402.24	173.57	5402.16
173.93	5402.25	174.73	5402.19	175.24	5402.22	176.57	5402.15	176.78	5402.16
176.91	5402.18	177.49	5402.24	178.59	5402.39	178.83	5402.41	179.22	5402.4
179.7	5402.45	180.17	5402.49	181.2	5402.41	181.59	5402.39	182.07	5402.34
183.01	5402.28	183.8	5402.3	184.43	5402.31	185.19	5402.34	185.85	5402.38
186.41	5402.44	187.27	5402.54	188.31	5402.55	188.69	5402.56	189.01	5402.57
190.11	5402.64	191.44	5402.5	191.53	5402.49	191.62	5402.49	192.53	5402.44
192.95	5402.37	194.22	5402.35	194.37	5402.35	194.56	5402.36	195.79	5402.48
196.82	5402.54	197.21	5402.58	197.68	5402.6	198.63	5402.66	199.43	5402.75
200.05	5402.85	200.8	5402.9	201.47	5402.96	202.03	5402.97	202.89	5403.01
203.93	5403.04	204.31	5403.06	204.64	5403.07	205.73	5403.17	207.05	5403.26
207.15	5403.27	207.24	5403.27	208.19	5403.32	208.57	5403.32	209.84	5403.39
210.17	5403.39	211.41	5403.38	212.45	5403.49	212.83	5403.48	213.3	5403.53
214.25	5403.56	215.05	5403.62	215.67	5403.65	216.42	5403.65	217.09	5403.64
217.66	5403.64	218.51	5403.6	219.54	5403.63	219.93	5403.62	220.26	5403.61
221.35	5403.6	222.67	5403.58	222.77	5403.59	222.86	5403.59	223.86	5403.62
224.19	5403.67	225.47	5403.68	225.61	5403.68	225.79	5403.67	227.03	5403.7
228.07	5403.76	228.45	5403.8	228.91	5403.83	229.87	5403.87	230.68	5403.89
231.29	5403.93	232.04	5403.97	232.71	5404	233.28	5403.99	234.13	5404
235.16	5403.96	235.55	5403.99	235.88	5404.03	236.97	5404.2	238.28	5404.25
238.39	5404.25	238.49	5404.26	239.52	5404.34	239.81	5404.43	241.09	5404.48
241.23	5404.49	241.41	5404.51	242.65	5404.55	243.7	5404.6	244.07	5404.61
244.53	5404.64	245.49	5404.66	246.3	5404.64	246.91	5404.64	247.65	5404.69

248.33	5404.77	248.9	5404.82	249.75	5404.86	250.77	5404.93	251.17	5404.96
251.51	5404.98	252.59	5405	253.9	5405.02	254.01	5405.02	254.11	5405.03
255.19	5405.11	255.43	5405.15	256.72	5405.24	256.85	5405.25	257.02	5405.26
258.27	5405.34	259.32	5405.4	259.69	5405.41	260.14	5405.42	261.11	5405.43
261.92	5405.49	262.53	5405.51	263.27	5405.6	263.95	5405.64	264.53	5405.67
265.37	5405.68	266.39	5405.74	266.79	5405.76	267.13	5405.76	268.21	5405.75
269.51	5405.7	269.74	5405.7	270.85	5405.78	271.05	5405.81	272.34	5405.88
272.47	5405.9	272.64	5405.91	273.89	5405.91				

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.05	124.9	.013
		135.1	.05

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	124.9	135.1		0	0		.3	.3

SUMMARY OF MANNING'S N VALUES

River:Rainbow Trib

Reach	River Sta.	n1	n2	n3
North-DS-0	7061	.05	.035	.05
North-DS-0	6862	.05	.035	.05
North-DS-0	6777	.05	.035	.05
North-DS-0	6663	.05	.035	.05
North-DS-0	6492	.05	.035	.05
North-DS-0	6301	.05	.035	.05
North-DS-0	6131	.05	.035	.05
North-DS-0	5879	.05	.035	.05
North-DS-0	5605	.05	.035	.05
North-DS-0	5392	.05	.035	.05
North-DS-0	5228	.05	.035	.05
North-DS-0	4950	.05	.035	.05
North-DS-0	4696	.05	.035	.05
North-DS-0	4469	.05	.035	.05
North-DS-0	4241	.05	.035	.05
North-DS-0	4112	.05	.035	.05
North-DS-0	3947	.05	.035	.05
North-DS-0	3802	.05	.035	.05
North-DS-0	3660	.05	.035	.05
North-DS-0	3477	.05	.035	.05
North-DS-0	3300	.05	.035	.05
North-DS-0	3085	.05	.035	.05
North-DS-0	2757	.05	.035	.05
North-DS-0	2627	.05	.035	.05
North-DS-0	2237	.05	.035	.05
North-DS-0	2046	.05	.035	.05
North-DS-0	1944	.05	.035	.05
North-DS-0	1749	.05	.035	.05
North-DS-0	1502	.05	.035	.05
North-DS-0	1369	.05	.035	.05
North-DS-0	1210	.05	.013	.05
North-DS-0	1068	.05	.013	.05
North-DS-0	1000	.05	.013	.05

SUMMARY OF REACH LENGTHS

River: Rainbow Trib

Reach	River Sta.	Left	Channel	Right
North-DS-0	7061	193.42	199.08	203.18
North-DS-0	6862	92.4	84.72	75.4
North-DS-0	6777	20	20	20
North-DS-0	6663	178.67	170.89	160.91
North-DS-0	6492	184.01	190.86	197.92
North-DS-0	6301	169.72	169.54	168.65
North-DS-0	6131	248.34	252.14	256.72
North-DS-0	5879	274.74	274.67	274.29
North-DS-0	5605	210.31	212.19	211.92
North-DS-0	5392	160.96	163.94	164.91
North-DS-0	5228	276.31	278.07	277.19
North-DS-0	4950	255.88	254.37	253.06
North-DS-0	4696	227.77	226.95	226.26
North-DS-0	4469	228.42	227.64	228.94
North-DS-0	4241	157	129.71	103.08
North-DS-0	4112	165.33	164.28	173.44
North-DS-0	3947	158.32	145.63	140.83
North-DS-0	3802	128.85	141.53	147.89
North-DS-0	3660	183.7	183.7	185.1
North-DS-0	3477	188	176.2	156.4
North-DS-0	3300	214.2	215.18	214.63
North-DS-0	3085	349.11	327.67	334.2
North-DS-0	2757	131.3	130.64	127.44
North-DS-0	2627	374.21	389.69	412.33
North-DS-0	2237	198.37	190.66	165.58

North-DS-0	2046	91.98	102.28	204.89
North-DS-0	1944	197.2	195.48	195.53
North-DS-0	1749	264.21	246.25	234.9
North-DS-0	1502	101.65	133.94	152.98
North-DS-0	1369	154.97	158.15	160.47
North-DS-0	1210	146.34	142.86	147.41
North-DS-0	1068	68.39	67.52	67.48
North-DS-0	1000	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS

River: Rainbow Trib

Reach	River Sta.	Contr.	Expan.
North-DS-0	7061	.1	.3
North-DS-0	6862	.1	.3
North-DS-0	6777	.3	.5
North-DS-0	6663	.1	.3
North-DS-0	6492	.1	.3
North-DS-0	6301	.1	.3
North-DS-0	6131	.1	.3
North-DS-0	5879	.1	.3
North-DS-0	5605	.1	.3
North-DS-0	5392	.1	.3
North-DS-0	5228	.1	.3
North-DS-0	4950	.1	.3
North-DS-0	4696	.1	.3
North-DS-0	4469	.1	.3
North-DS-0	4241	.1	.3
North-DS-0	4112	.1	.3
North-DS-0	3947	.1	.3
North-DS-0	3802	.1	.3
North-DS-0	3660	.1	.3
North-DS-0	3477	.1	.3
North-DS-0	3300	.1	.3
North-DS-0	3085	.1	.3
North-DS-0	2757	.1	.3
North-DS-0	2627	.1	.3
North-DS-0	2237	.1	.3
North-DS-0	2046	.1	.3
North-DS-0	1944	.1	.3
North-DS-0	1749	.1	.3
North-DS-0	1502	.1	.3
North-DS-0	1369	.1	.3
North-DS-0	1210	.1	.3
North-DS-0	1068	.3	.3
North-DS-0	1000	.3	.3

HEC-RAS Plan: Rev Ex River: Rainbow Trib Reach: North-DS-0

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)	
North-DS-0	7061	010-YR	207.00	5514.30	5515.95	5516.05	5516.66	0.022951	6.76	30.61	27.99	1.14
North-DS-0	7061	050-YR	381.00	5514.30	5516.50	5516.81	5517.46	0.022971	7.90	50.02	59.84	1.19
North-DS-0	7061	100-YR	472.00	5514.30	5516.67	5517.03	5517.76	0.022966	8.50	62.24	75.06	1.21
North-DS-0	7061	500-YR	709.00	5514.30	5517.01	5517.49	5518.35	0.022976	9.71	92.25	103.26	1.25
North-DS-0	6862	010-YR	207.00	5509.72	5511.79	5511.88	5512.57	0.018376	7.14	29.69	25.71	1.06
North-DS-0	6862	050-YR	381.00	5509.72	5512.40	5512.75	5513.53	0.016993	8.73	51.25	50.55	1.08
North-DS-0	6862	100-YR	472.00	5509.72	5512.63	5512.93	5513.87	0.016746	9.32	64.73	62.03	1.09
North-DS-0	6862	500-YR	709.00	5509.72	5513.12	5513.57	5514.53	0.016112	10.41	98.81	83.10	1.11
North-DS-0	6777	010-YR	207.00	5508.03	5509.39	5509.67	5510.36	0.039189	7.90	26.21	28.55	1.45
North-DS-0	6777	050-YR	381.00	5508.03	5509.81	5510.28	5511.32	0.042687	9.86	38.65	32.11	1.58
North-DS-0	6777	100-YR	472.00	5508.03	5510.01	5510.53	5511.69	0.041777	10.43	45.27	34.01	1.59
North-DS-0	6777	500-YR	709.00	5508.03	5510.47	5511.21	5512.47	0.038075	11.36	62.91	43.76	1.57
North-DS-0	6663	010-YR	207.00	5505.83	5507.47	5508.04	5509.21	0.055080	10.57	19.58	17.43	1.76
North-DS-0	6663	050-YR	381.00	5505.83	5508.13	5508.96	5510.24	0.047623	11.64	32.87	26.77	1.71
North-DS-0	6663	100-YR	472.00	5505.83	5508.38	5509.11	5510.65	0.044800	12.17	40.73	36.07	1.69
North-DS-0	6663	500-YR	709.00	5505.83	5508.83	5509.68	5511.47	0.042817	13.43	63.35	64.98	1.70
North-DS-0	6492	010-YR	207.00	5503.41	5505.36	5505.36	5505.99	0.016575	6.34	32.64	213.98	0.99
North-DS-0	6492	050-YR	381.00	5503.41	5505.86	5505.86	5506.37	0.012257	6.35	76.95	233.33	0.89
North-DS-0	6492	100-YR	472.00	5503.41	5505.96	5505.96	5505.98	0.000624	1.47	410.19	237.02	0.20
North-DS-0	6492	500-YR	709.00	5503.41	5505.96	5505.96	5506.01	0.001409	2.21	410.19	237.02	0.30
North-DS-0	6301	010-YR	207.00	5499.93	5501.40	5501.40	5501.46	0.004210	2.62	114.79	227.46	0.48
North-DS-0	6301	050-YR	381.00	5499.93	5501.49	5501.40	5501.65	0.010291	4.38	129.88	239.94	0.76
North-DS-0	6301	100-YR	472.00	5499.93	5501.40	5501.40	5501.70	0.021888	5.98	114.79	227.46	1.09
North-DS-0	6301	500-YR	709.00	5499.93	5501.60	5501.60	5502.02	0.024758	7.23	147.08	252.91	1.19
North-DS-0	6131	010-YR	207.00	5496.75	5498.11	5498.11	5498.25	0.011226	3.97	75.00	241.01	0.76
North-DS-0	6131	050-YR	381.00	5496.75	5498.11	5498.11	5498.60	0.038030	7.31	75.00	241.01	1.41
North-DS-0	6131	100-YR	472.00	5496.75	5498.13	5498.13	5498.27	0.013429	4.42	164.39	244.30	0.84
North-DS-0	6131	500-YR	709.00	5496.75	5498.41	5498.13	5498.57	0.010161	4.66	237.87	263.26	0.77
North-DS-0	5879	010-YR	207.00	5490.41	5492.10	5492.30	5493.24	0.042542	8.61	24.91	95.17	1.53
North-DS-0	5879	050-YR	381.00	5490.41	5492.40	5492.40	5492.73	0.015479	5.91	98.02	138.99	0.95
North-DS-0	5879	100-YR	472.00	5490.41	5492.32	5492.41	5492.96	0.030933	8.10	88.41	114.48	1.34

HEC-RAS Plan: Rev Ex River: Rainbow Trib Reach: North-DS-0 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
North-DS-0	5879	500-YR	709.00	5490.41	5492.41	5492.41	5493.52	0.051819	10.86	99.32	141.11	1.74
North-DS-0	5605	010-YR	207.00	5483.86	5485.58	5485.63	5486.30	0.016257	6.88	31.48	45.45	1.01
North-DS-0	5605	050-YR	381.00	5483.86	5485.97	5486.34	5487.41	0.023785	9.77	41.99	176.57	1.27
North-DS-0	5605	100-YR	472.00	5483.86	5486.45	5486.45	5486.75	0.005903	5.68	170.95	257.93	0.66
North-DS-0	5605	500-YR	709.00	5483.86	5486.46	5486.66	5487.12	0.012784	8.39	174.03	259.10	0.97
North-DS-0	5392	010-YR	207.00	5478.30	5480.41	5480.75	5481.45	0.033836	8.18	25.30	22.68	1.37
North-DS-0	5392	050-YR	381.00	5478.30	5481.14	5481.33	5482.14	0.024710	8.02	47.54	35.18	1.21
North-DS-0	5392	100-YR	472.00	5478.30	5480.82	5481.56	5483.40	0.083249	12.89	36.62	32.81	2.15
North-DS-0	5392	500-YR	709.00	5478.30	5481.77	5482.19	5483.35	0.024887	10.08	70.86	38.74	1.28
North-DS-0	5228	010-YR	207.00	5474.01	5475.21	5475.41	5476.10	0.030984	7.95	31.85	82.04	1.34
North-DS-0	5228	050-YR	381.00	5474.01	5475.51	5475.82	5476.98	0.040394	10.64	51.05	155.73	1.59
North-DS-0	5228	100-YR	472.00	5474.01	5475.69	5475.94	5476.45	0.022604	8.64	99.56	176.14	1.21
North-DS-0	5228	500-YR	709.00	5474.01	5475.68	5476.13	5477.50	0.054820	13.36	96.67	175.52	1.88
North-DS-0	4950	010-YR	207.00	5466.36	5467.78	5467.95	5468.56	0.023784	7.25	31.24	127.00	1.18
North-DS-0	4950	050-YR	381.00	5466.36	5468.35	5468.35	5468.83	0.011350	6.53	87.46	180.95	0.87
North-DS-0	4950	100-YR	472.00	5466.36	5468.39	5468.39	5468.51	0.004142	4.00	199.80	182.57	0.53
North-DS-0	4950	500-YR	709.00	5466.36	5468.39	5468.39	5468.67	0.009345	6.01	199.80	182.57	0.79
North-DS-0	4696	010-YR	212.00	5460.50	5462.01	5462.01	5462.33	0.011589	5.51	60.49	162.11	0.84
North-DS-0	4696	050-YR	416.00	5460.50	5462.34	5462.34	5462.88	0.015572	7.41	88.56	189.85	1.01
North-DS-0	4696	100-YR	529.00	5460.50	5462.39	5462.39	5462.63	0.009454	5.88	172.18	197.46	0.79
North-DS-0	4696	500-YR	833.00	5460.50	5462.55	5462.55	5462.95	0.014287	7.68	204.49	202.98	0.99
North-DS-0	4469	010-YR	212.00	5455.64	5457.08	5457.08	5457.13	0.003115	2.56	135.11	193.52	0.43
North-DS-0	4469	050-YR	416.00	5455.64	5457.08	5457.08	5457.27	0.011996	5.03	135.11	193.52	0.83
North-DS-0	4469	100-YR	529.00	5455.64	5457.08	5457.08	5457.38	0.019397	6.40	135.11	193.52	1.06
North-DS-0	4469	500-YR	833.00	5455.64	5457.12	5457.30	5457.79	0.041280	9.55	141.86	199.89	1.56
North-DS-0	4241	010-YR	212.00	5451.22	5452.19	5452.88	5454.73	0.139607	13.73	18.97	107.18	2.69
North-DS-0	4241	050-YR	416.00	5451.22	5453.15	5453.15	5453.24	0.003829	3.83	199.92	210.35	0.51
North-DS-0	4241	100-YR	529.00	5451.22	5453.15	5453.15	5453.30	0.006192	4.87	199.92	210.35	0.65
North-DS-0	4241	500-YR	833.00	5451.22	5453.15	5453.15	5453.54	0.015353	7.67	199.92	210.35	1.02
North-DS-0	4112	010-YR	212.00	5448.41	5449.49	5449.42	5449.71	0.014370	3.78	57.70	191.86	0.83

HEC-RAS Plan: Rev Ex River: Rainbow Trib Reach: North-DS-0 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
North-DS-0	4112	050-YR	416.00	5448.41	5449.24	5449.76	5451.41	0.227098	11.81	35.22	132.78	3.11
North-DS-0	4112	100-YR	529.00	5448.41	5449.46	5449.91	5450.99	0.103392	9.94	54.27	183.90	2.22
North-DS-0	4112	500-YR	833.00	5448.41	5450.04	5450.24	5450.86	0.025059	7.48	123.44	281.13	1.22
North-DS-0	3947	010-YR	212.00	5445.64	5446.77	5446.77	5447.00	0.019082	5.22	65.84	134.05	1.00
North-DS-0	3947	050-YR	416.00	5445.64	5447.10	5446.92	5447.38	0.016207	6.02	118.78	178.22	0.98
North-DS-0	3947	100-YR	529.00	5445.64	5447.26	5447.18	5447.55	0.014342	6.17	148.40	186.78	0.94
North-DS-0	3947	500-YR	833.00	5445.64	5447.63	5447.47	5447.94	0.011781	6.58	224.74	225.13	0.89
North-DS-0	3802	010-YR	212.00	5444.50	5445.74	5445.43	5445.81	0.003610	2.61	112.81	159.71	0.45
North-DS-0	3802	050-YR	416.00	5444.50	5446.08	5445.69	5446.21	0.004364	3.48	172.32	188.06	0.52
North-DS-0	3802	100-YR	529.00	5444.50	5446.24	5445.84	5446.40	0.004586	3.84	206.29	227.22	0.54
North-DS-0	3802	500-YR	833.00	5444.50	5446.56	5446.12	5446.78	0.005296	4.68	290.02	286.69	0.60
North-DS-0	3660	010-YR	212.00	5443.86	5444.90	5444.81	5445.01	0.009774	3.17	93.64	233.00	0.69
North-DS-0	3660	050-YR	416.00	5443.86	5445.16	5445.02	5445.32	0.009470	3.90	148.86	262.44	0.72
North-DS-0	3660	100-YR	529.00	5443.86	5445.28	5445.13	5445.47	0.009784	4.29	174.34	279.89	0.74
North-DS-0	3660	500-YR	833.00	5443.86	5445.59	5445.35	5445.82	0.008613	4.80	249.76	387.31	0.73
North-DS-0	3477	010-YR	212.00	5441.54	5442.66	5442.65	5442.88	0.013799	4.05	66.47	163.20	0.83
North-DS-0	3477	050-YR	416.00	5441.54	5442.93	5442.93	5443.23	0.013797	4.98	116.66	201.25	0.88
North-DS-0	3477	100-YR	529.00	5441.54	5443.06	5443.06	5443.38	0.013163	5.27	142.98	207.76	0.88
North-DS-0	3477	500-YR	833.00	5441.54	5443.27	5443.27	5443.72	0.015355	6.39	187.59	236.51	0.97
North-DS-0	3300	010-YR	212.00	5437.59	5439.60	5439.60	5440.21	0.016214	6.30	33.66	54.60	0.98
North-DS-0	3300	050-YR	416.00	5437.59	5440.51	5440.42	5441.12	0.009489	6.43	76.51	179.98	0.81
North-DS-0	3300	100-YR	529.00	5437.59	5440.63	5440.61	5440.96	0.006502	5.53	160.24	222.28	0.67
North-DS-0	3300	500-YR	833.00	5437.59	5441.11	5440.89	5441.43	0.005431	5.80	248.26	342.34	0.64
North-DS-0	3085	010-YR	212.00	5436.00	5437.81	5437.81	5437.92	0.005578	3.29	90.32	165.09	0.56
North-DS-0	3085	050-YR	416.00	5436.00	5437.84	5437.84	5438.23	0.019524	6.24	93.29	168.13	1.05
North-DS-0	3085	100-YR	529.00	5436.00	5437.90	5437.90	5438.45	0.026147	7.42	99.89	188.95	1.23
North-DS-0	3085	500-YR	833.00	5436.00	5438.11	5438.11	5438.97	0.035180	9.35	125.41	237.20	1.45
North-DS-0	2757	010-YR	212.00	5431.46	5432.12	5432.39	5432.98	0.105160	7.49	28.94	83.47	2.08
North-DS-0	2757	050-YR	416.00	5431.46	5433.03	5432.72	5433.18	0.004539	3.43	168.34	215.83	0.53
North-DS-0	2757	100-YR	529.00	5431.46	5433.20	5432.89	5433.36	0.004420	3.67	206.73	236.90	0.53
North-DS-0	2757	500-YR	833.00	5431.46	5433.53	5433.16	5433.73	0.004512	4.25	291.62	266.31	0.56

HEC-RAS Plan: Rev Ex River: Rainbow Trib Reach: North-DS-0 (Continued)

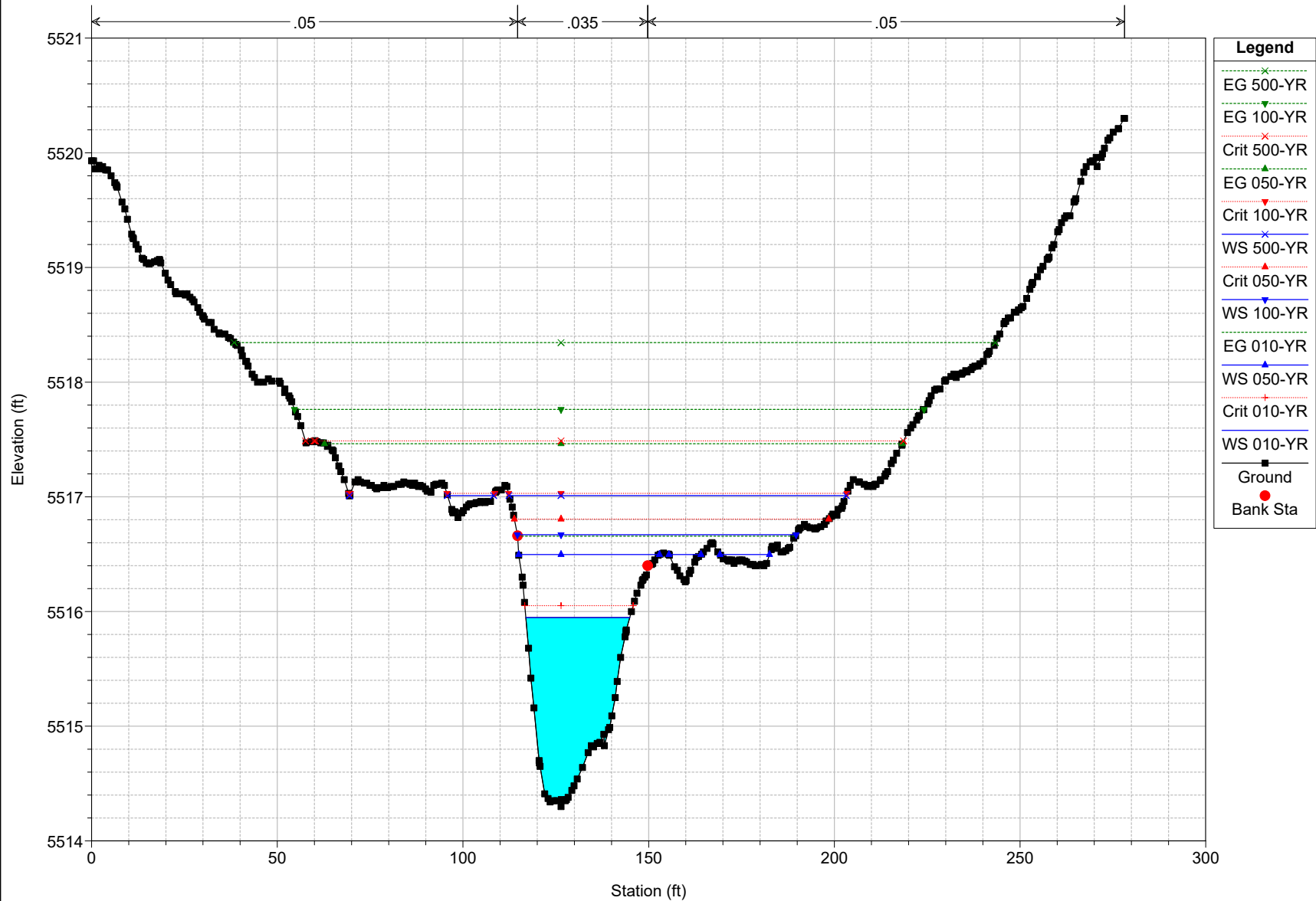
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
North-DS-0	2627	010-YR	212.00	5430.21	5431.46	5431.46	5431.73	0.016155	5.21	64.81	121.96	0.94
North-DS-0	2627	050-YR	416.00	5430.21	5431.79	5431.79	5432.15	0.015972	6.32	109.36	156.23	0.98
North-DS-0	2627	100-YR	529.00	5430.21	5431.92	5431.92	5432.33	0.016465	6.87	130.86	176.52	1.02
North-DS-0	2627	500-YR	833.00	5430.21	5432.28	5432.28	5432.73	0.014696	7.52	197.07	223.09	1.00
North-DS-0	2237	010-YR	218.00	5424.61	5426.31	5425.91	5426.43	0.003330	2.95	105.13	197.95	0.45
North-DS-0	2237	050-YR	440.00	5424.61	5426.73	5426.44	5426.88	0.003554	3.66	195.62	237.94	0.49
North-DS-0	2237	100-YR	579.00	5424.61	5426.92	5426.61	5427.09	0.003657	3.98	242.19	250.49	0.50
North-DS-0	2237	500-YR	961.00	5424.61	5427.31	5426.96	5427.52	0.004048	4.73	343.51	281.31	0.55
North-DS-0	2046	010-YR	218.00	5423.81	5424.83	5424.83	5425.09	0.022737	4.04	54.00	107.72	1.01
North-DS-0	2046	050-YR	440.00	5423.81	5425.15	5425.15	5425.50	0.020706	4.68	93.94	139.80	1.01
North-DS-0	2046	100-YR	579.00	5423.81	5425.30	5425.30	5425.69	0.019211	5.04	115.75	163.43	1.00
North-DS-0	2046	500-YR	961.00	5423.81	5425.64	5425.64	5426.14	0.015358	5.70	180.17	211.07	0.95
North-DS-0	1944	010-YR	218.00	5420.13	5421.32	5421.59	5422.16	0.035846	7.41	30.59	40.20	1.39
North-DS-0	1944	050-YR	440.00	5420.13	5421.84	5422.25	5422.95	0.028462	8.73	58.15	76.69	1.32
North-DS-0	1944	100-YR	579.00	5420.13	5422.08	5422.50	5423.31	0.026297	9.35	76.70	99.82	1.31
North-DS-0	1944	500-YR	961.00	5420.13	5422.53	5423.03	5424.01	0.025076	10.77	124.85	151.57	1.33
North-DS-0	1749	010-YR	218.00	5416.12	5417.62	5417.65	5418.04	0.013169	5.42	48.54	86.35	0.88
North-DS-0	1749	050-YR	440.00	5416.12	5418.04	5418.16	5418.69	0.016240	7.04	81.18	108.39	1.01
North-DS-0	1749	100-YR	579.00	5416.12	5418.26	5418.45	5419.04	0.017334	7.86	101.50	134.32	1.07
North-DS-0	1749	500-YR	961.00	5416.12	5418.70	5419.02	5419.73	0.018082	9.39	157.47	186.07	1.13
North-DS-0	1502	010-YR	218.00	5411.72	5413.38	5413.25	5413.70	0.012377	4.54	48.01	50.74	0.82
North-DS-0	1502	050-YR	440.00	5411.72	5413.74	5413.79	5414.40	0.018864	6.55	67.17	65.82	1.06
North-DS-0	1502	100-YR	579.00	5411.72	5414.01	5414.12	5414.76	0.017580	6.98	83.80	96.62	1.04
North-DS-0	1502	500-YR	961.00	5411.72	5414.52	5414.68	5415.53	0.016250	8.16	125.95	117.57	1.05
North-DS-0	1369	010-YR	218.00	5410.14	5411.23	5411.23	5411.53	0.021801	4.43	49.18	82.61	1.01
North-DS-0	1369	050-YR	440.00	5410.14	5411.61	5411.61	5412.03	0.019120	5.24	84.39	105.24	1.01
North-DS-0	1369	100-YR	579.00	5410.14	5411.78	5411.79	5412.28	0.018369	5.67	103.57	115.12	1.01
North-DS-0	1369	500-YR	961.00	5410.14	5412.03	5412.22	5412.87	0.024072	7.39	135.98	145.36	1.19
North-DS-0	1210	010-YR	218.00	5404.03	5404.48	5405.01	5406.93	0.037304	12.56	17.36	40.27	3.37
North-DS-0	1210	050-YR	440.00	5404.03	5404.78	5405.58	5408.20	0.026607	14.85	29.63	41.32	3.09

HEC-RAS Plan: Rev Ex River: Rainbow Trib Reach: North-DS-0 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
North-DS-0	1210	100-YR	579.00	5404.03	5404.95	5405.89	5408.75	0.022386	15.63	37.05	41.95	2.93
North-DS-0	1210	500-YR	961.00	5404.03	5405.45	5406.63	5409.65	0.014382	16.43	58.51	43.87	2.51
North-DS-0	1068	010-YR	218.00	5391.09	5392.05	5393.53	5400.07	0.052759	22.72	9.59	10.02	4.09
North-DS-0	1068	050-YR	440.00	5391.09	5392.80	5394.99	5403.08	0.036636	25.72	17.10	10.03	3.47
North-DS-0	1068	100-YR	579.00	5391.09	5393.26	5395.78	5404.28	0.031164	26.63	21.74	10.04	3.19
North-DS-0	1068	500-YR	961.00	5391.09	5394.57	5397.65	5406.36	0.022208	27.55	34.88	10.07	2.61
North-DS-0	1000	010-YR	218.00	5386.00	5386.91	5388.44	5395.90	0.063033	24.05	9.06	10.01	4.46
North-DS-0	1000	050-YR	440.00	5386.00	5387.57	5389.91	5399.72	0.047078	27.96	15.74	10.02	3.93
North-DS-0	1000	100-YR	579.00	5386.00	5387.98	5390.68	5401.22	0.040825	29.19	19.84	10.03	3.66
North-DS-0	1000	500-YR	961.00	5386.00	5389.12	5392.57	5403.77	0.030099	30.70	31.30	10.04	3.07

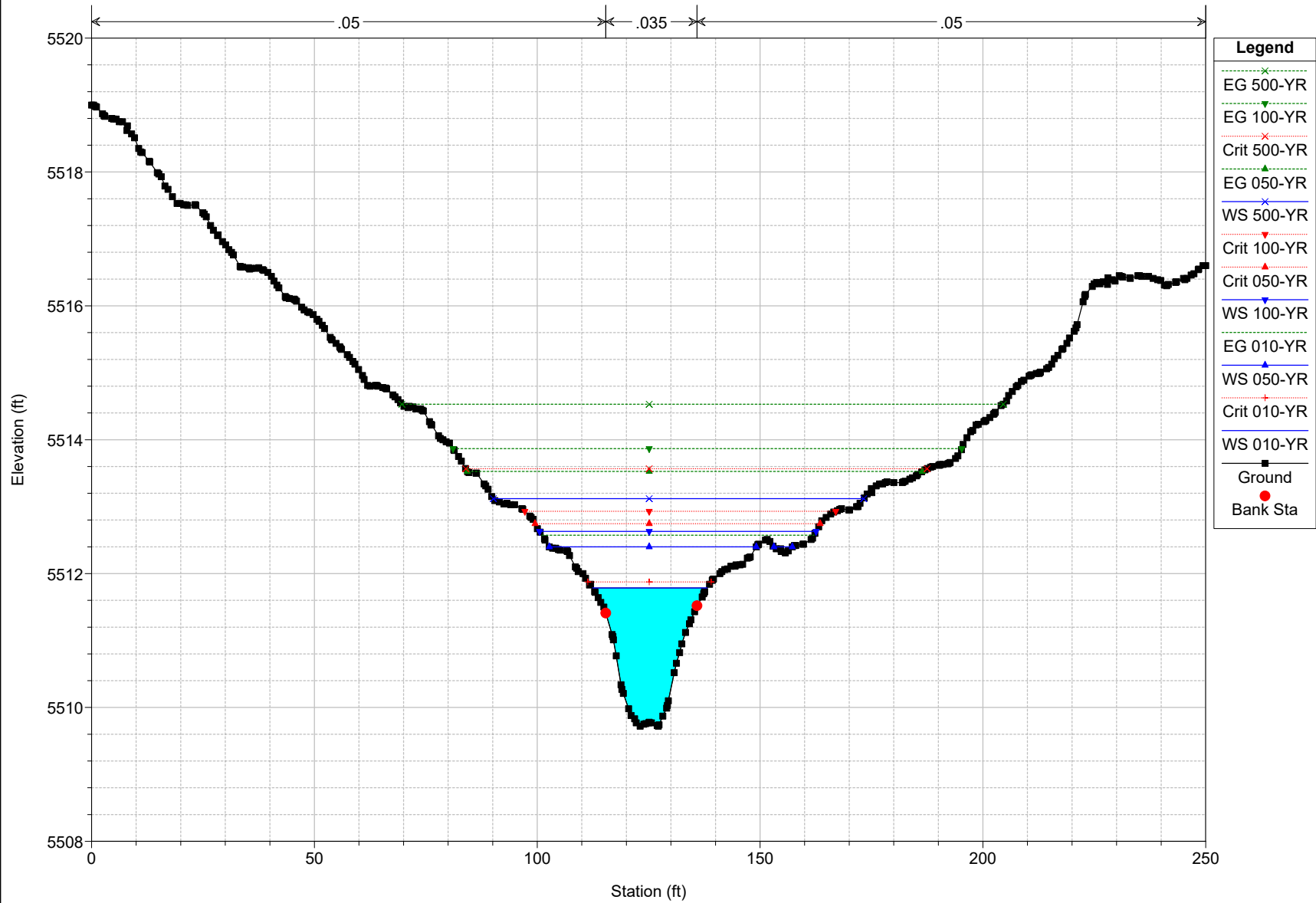
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 7061



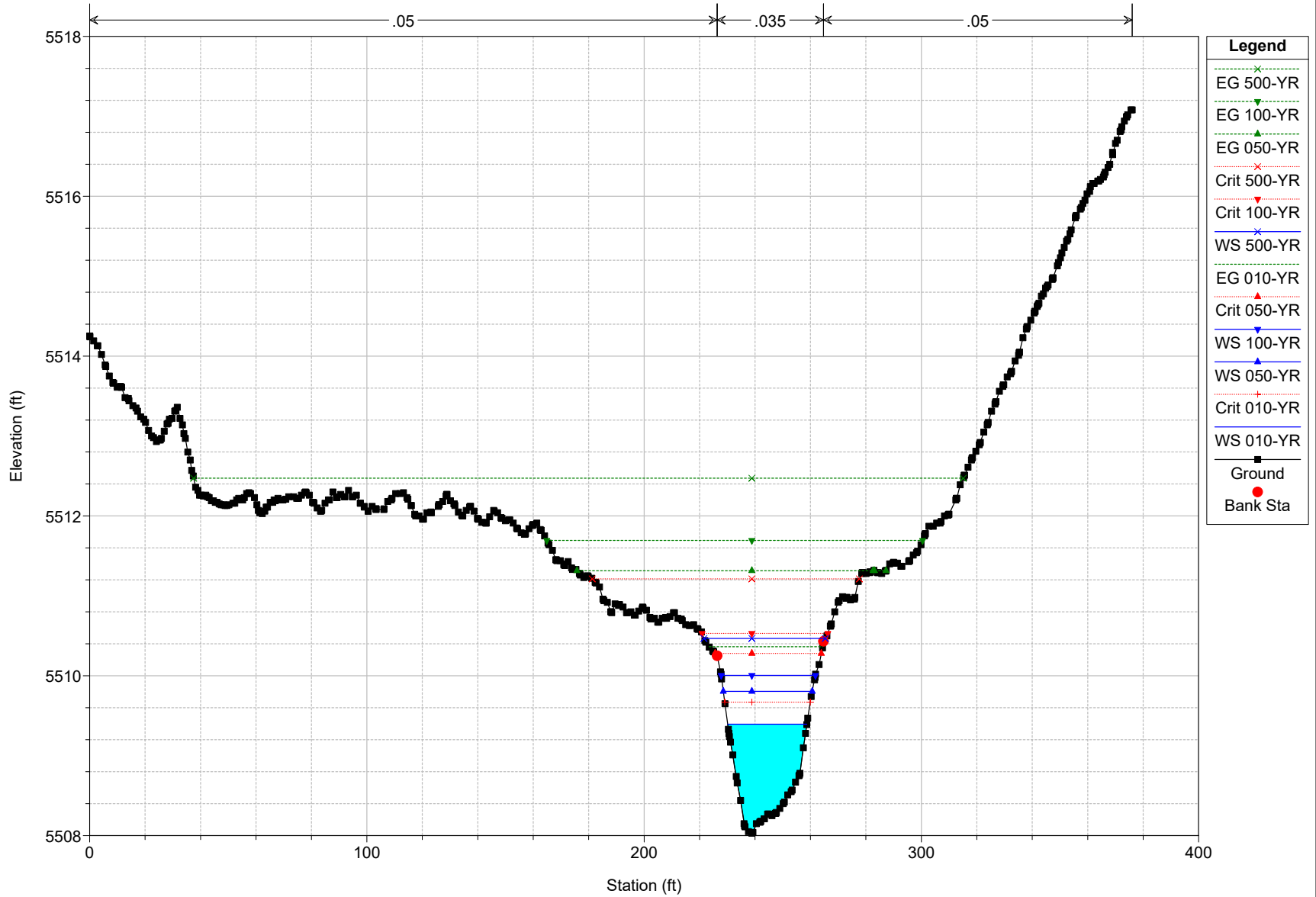
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6862



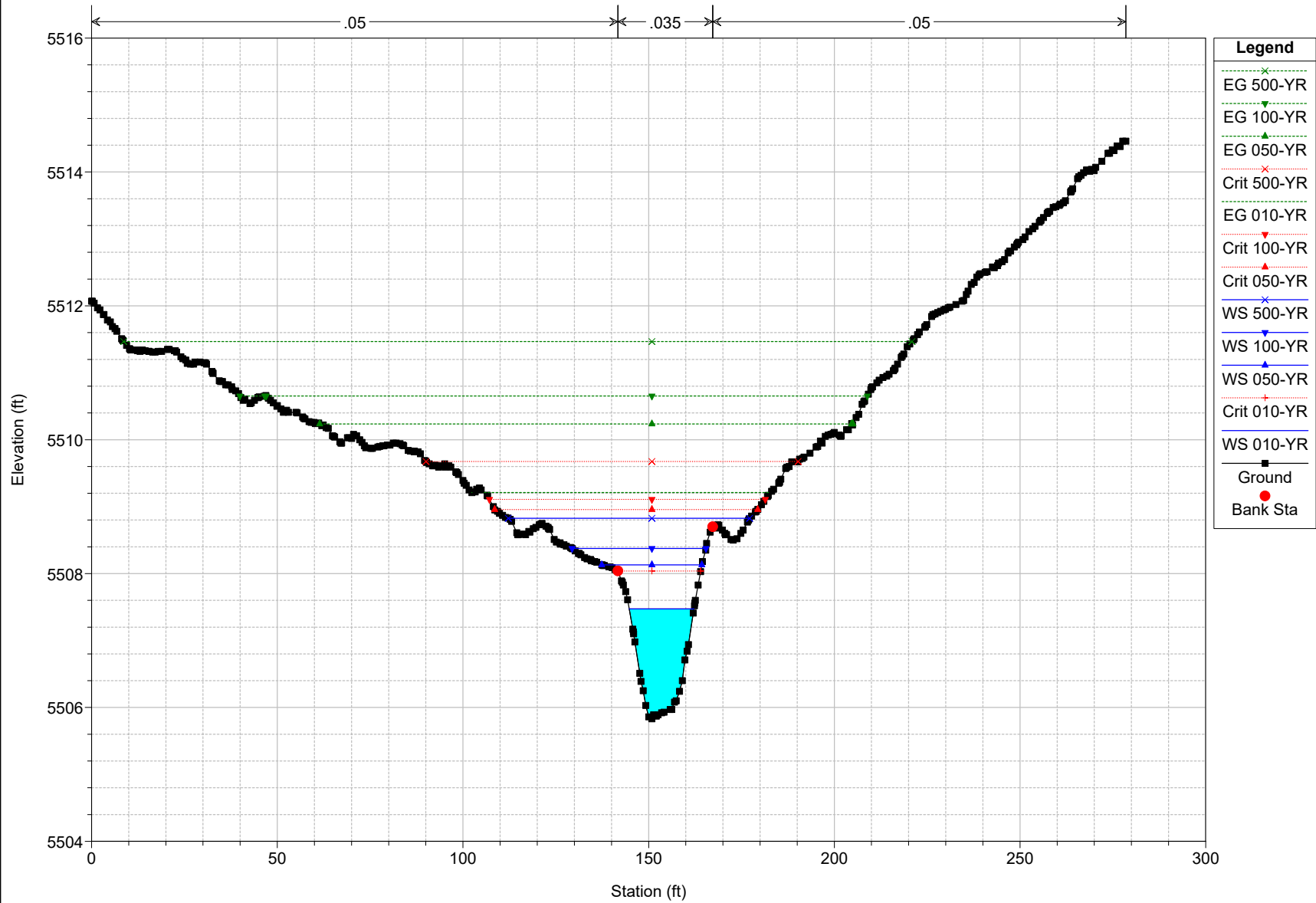
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6777



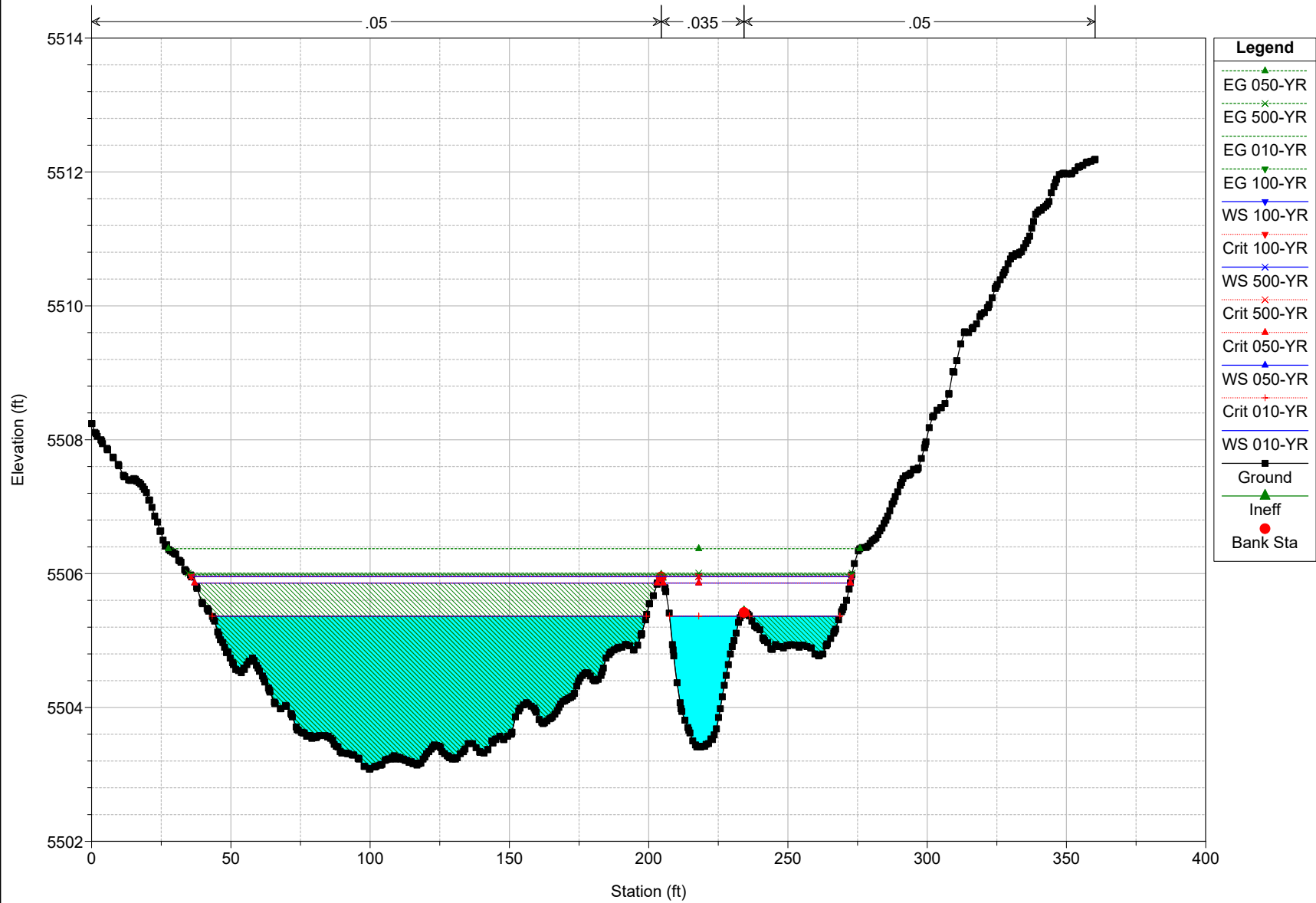
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6663



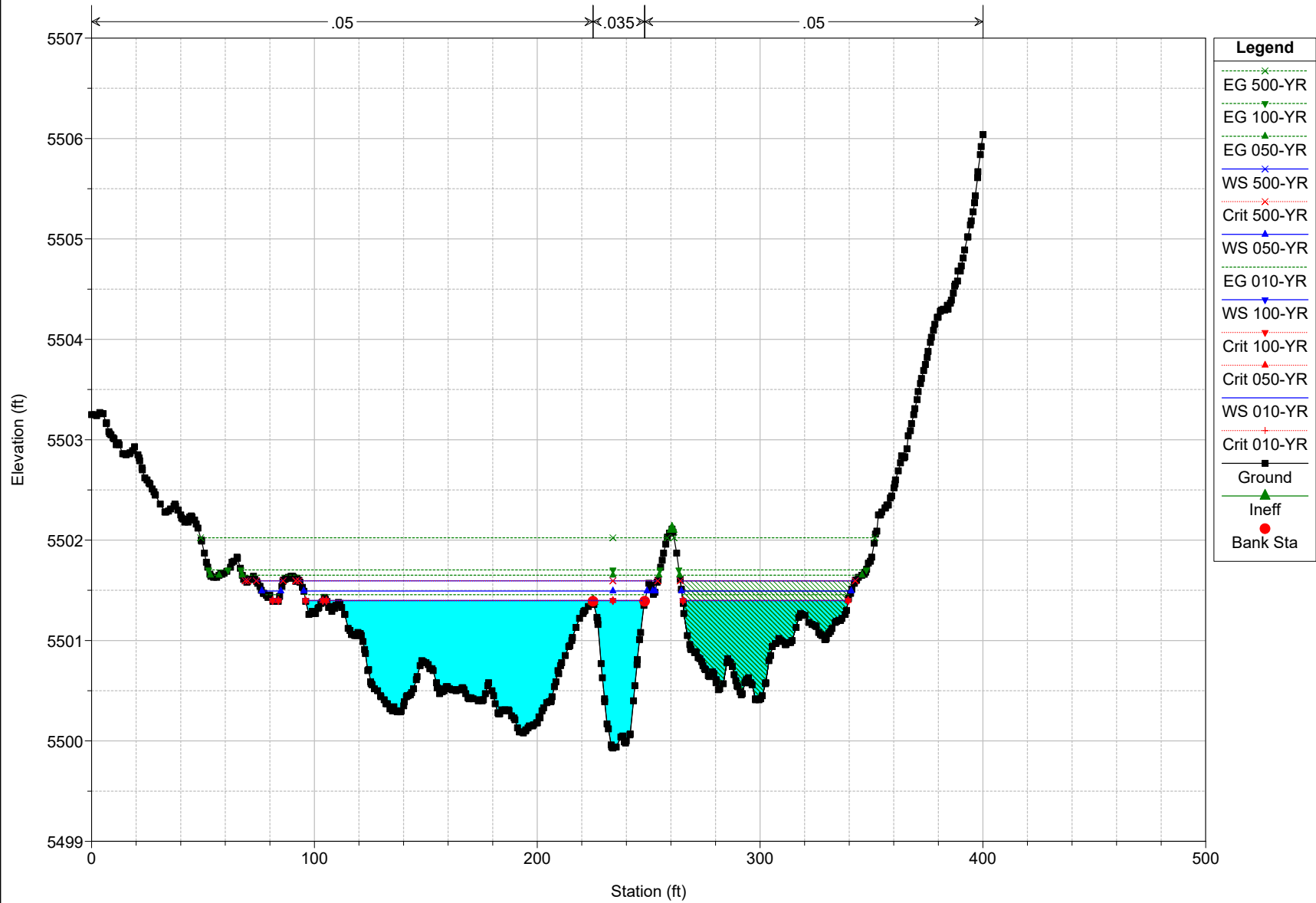
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6492



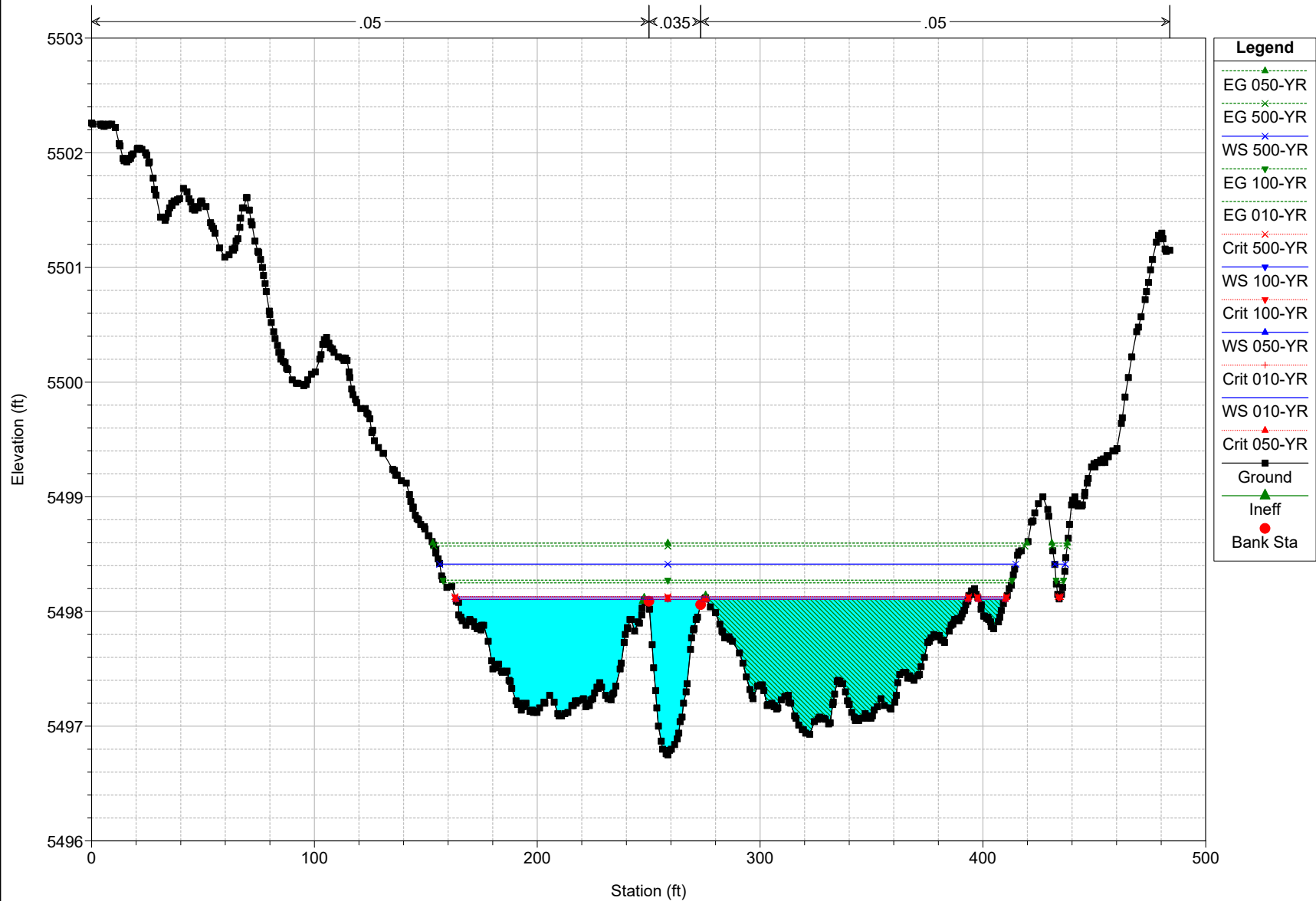
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6301



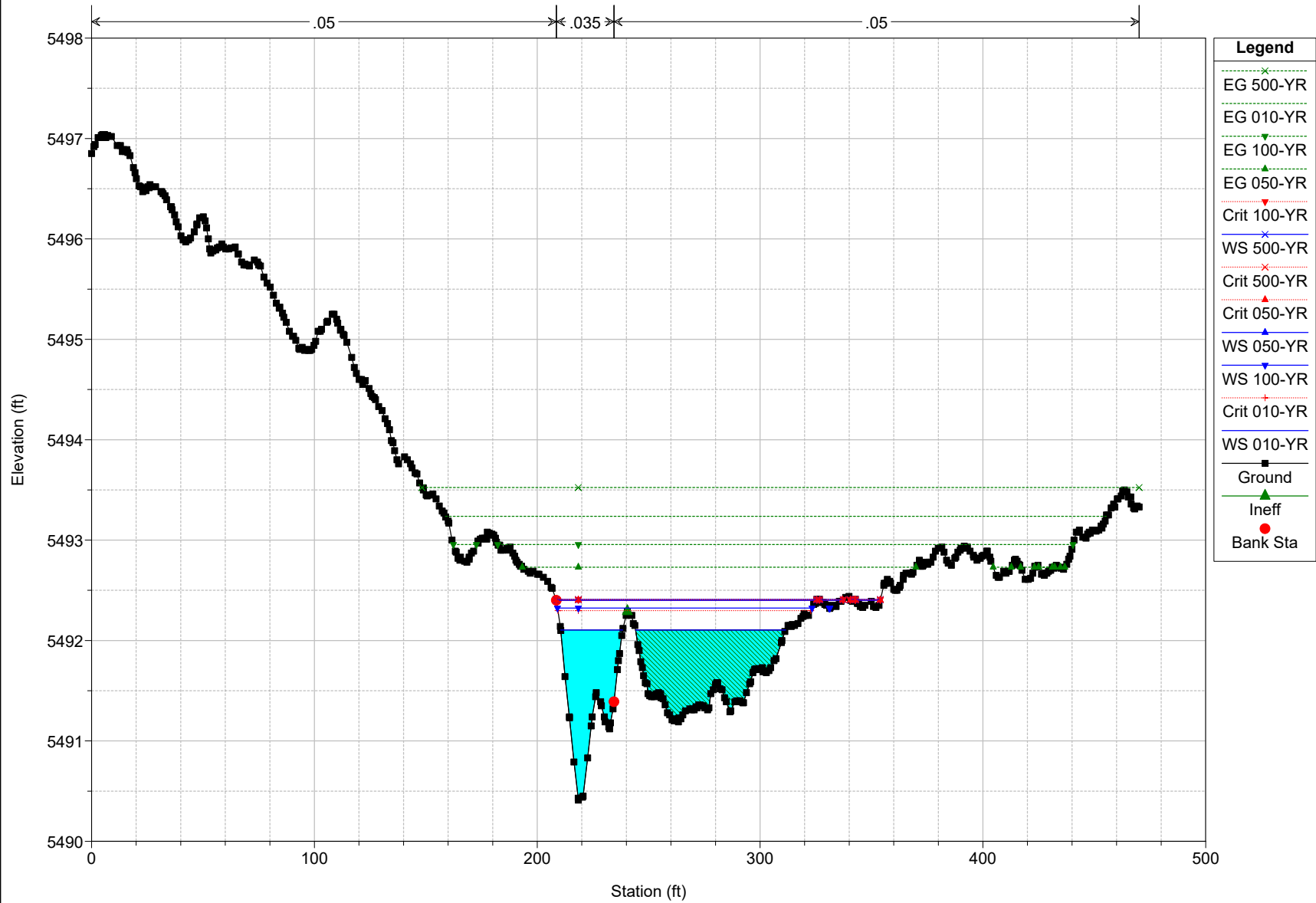
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 6131



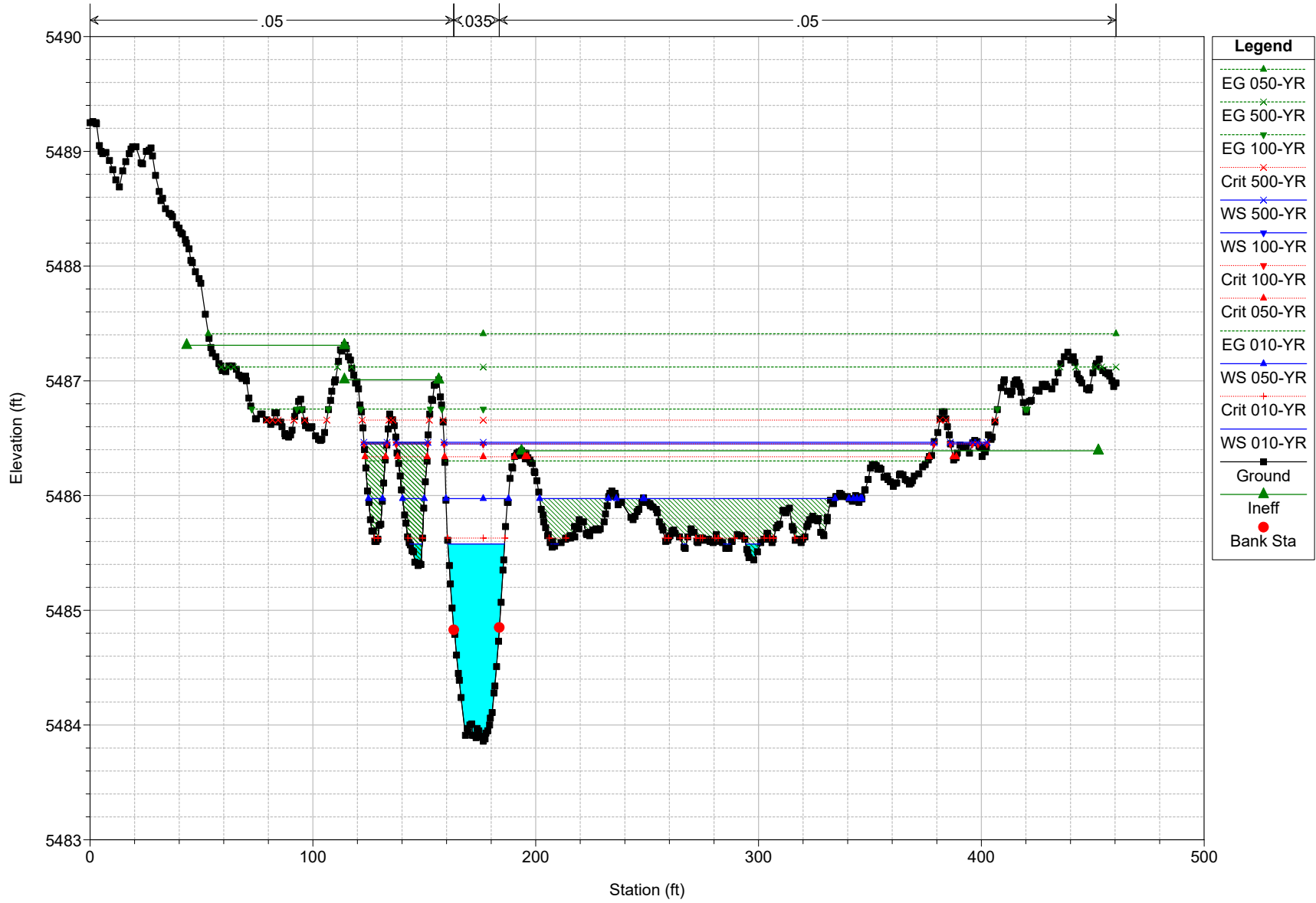
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 5879



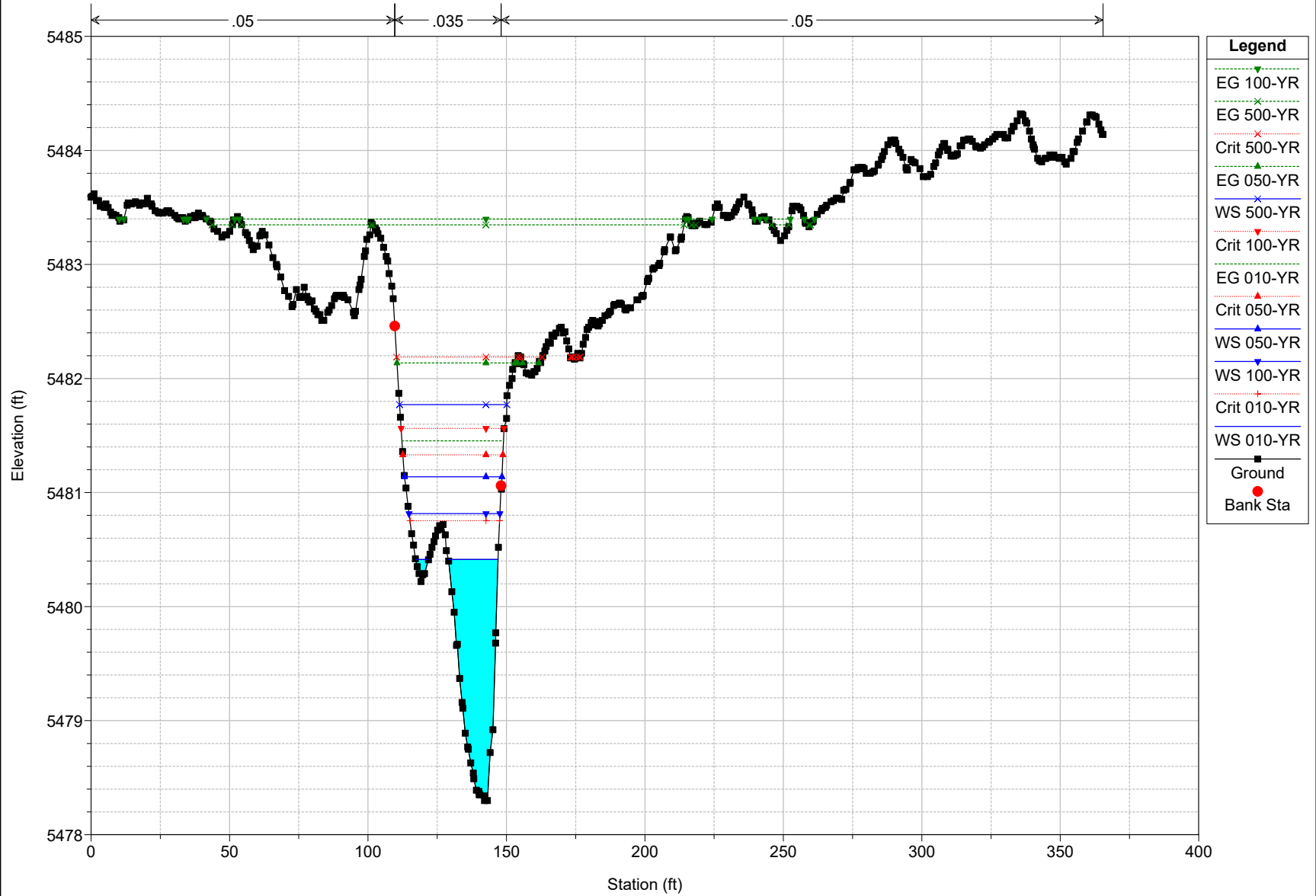
Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 5605



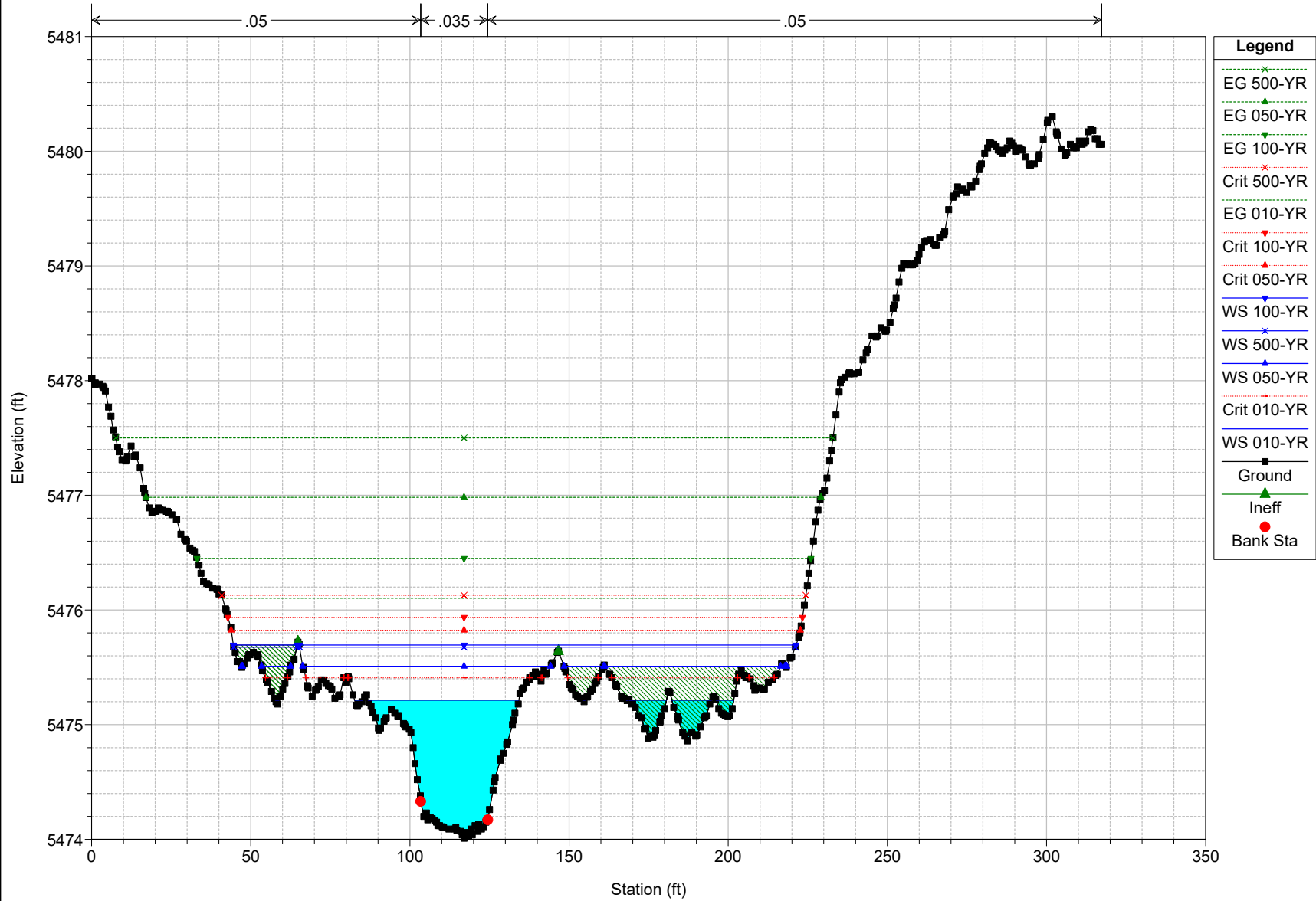
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 5392



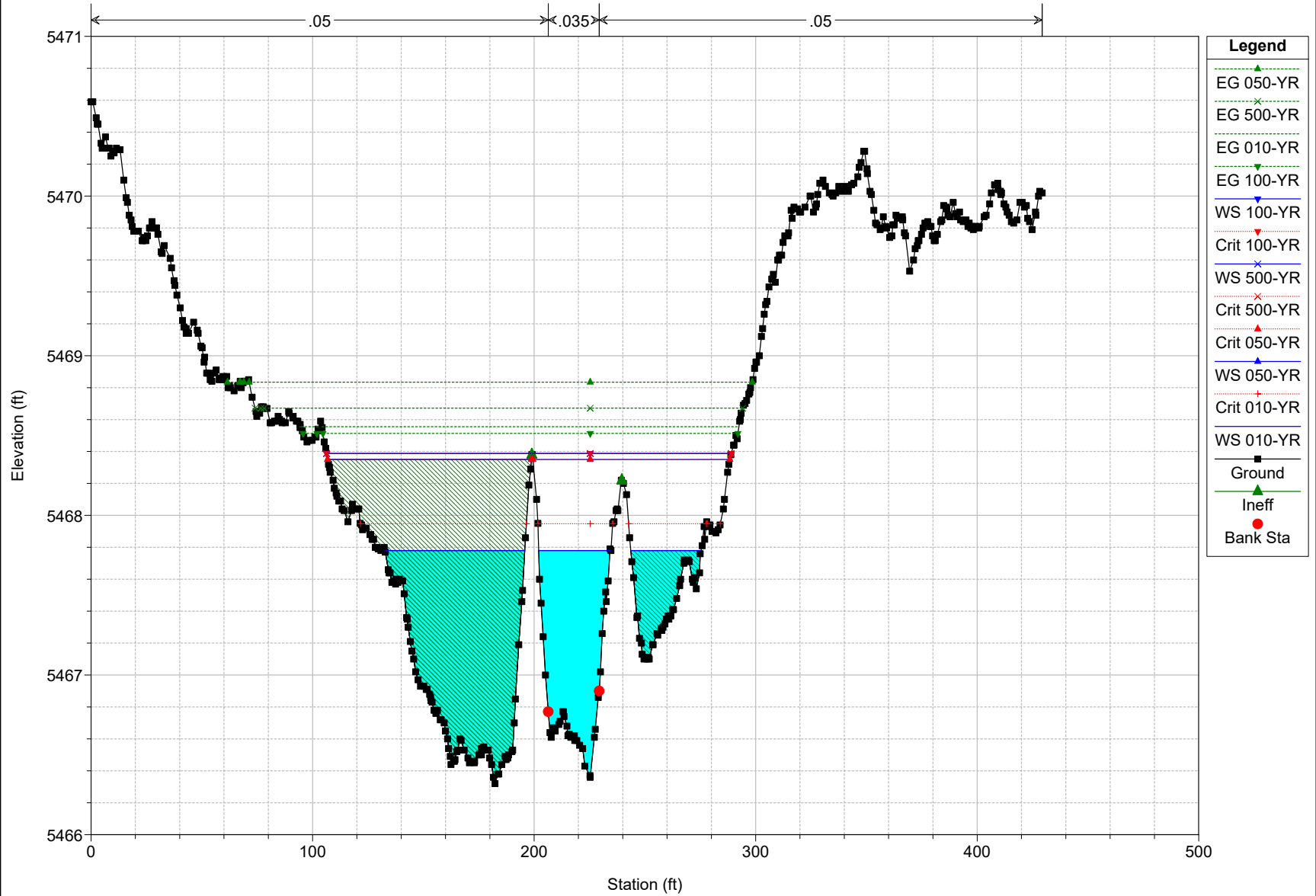
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 5228



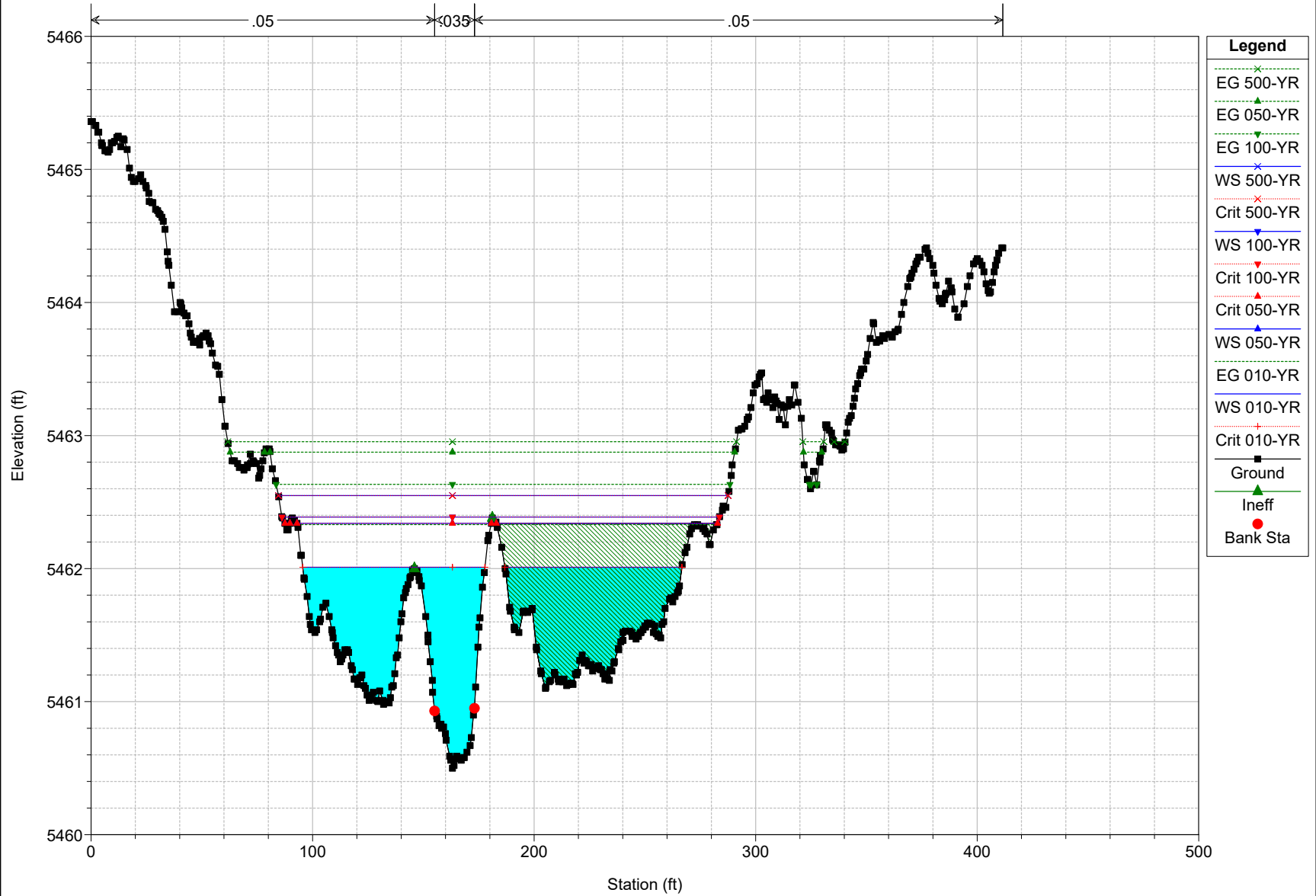
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 4950



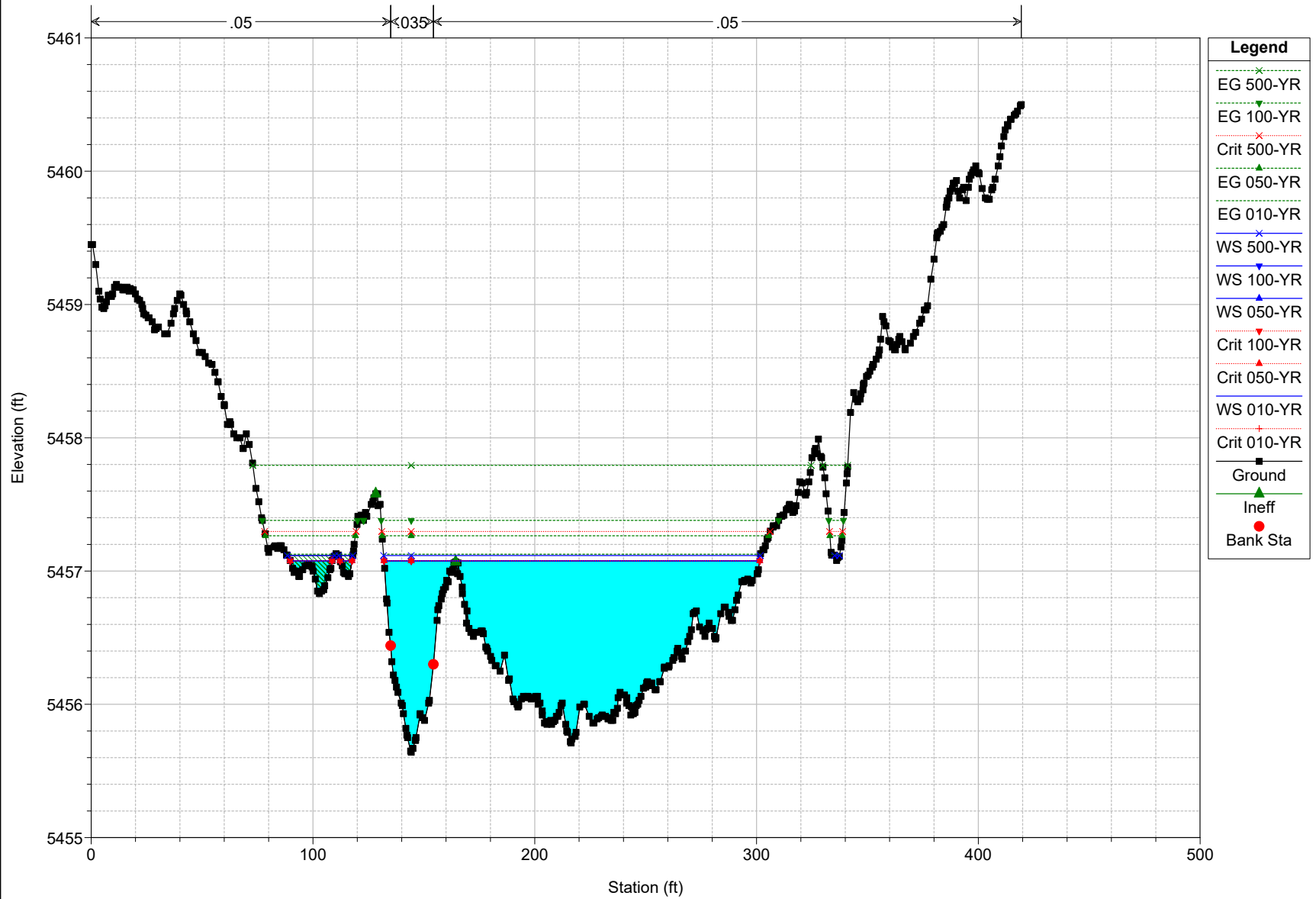
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 4696

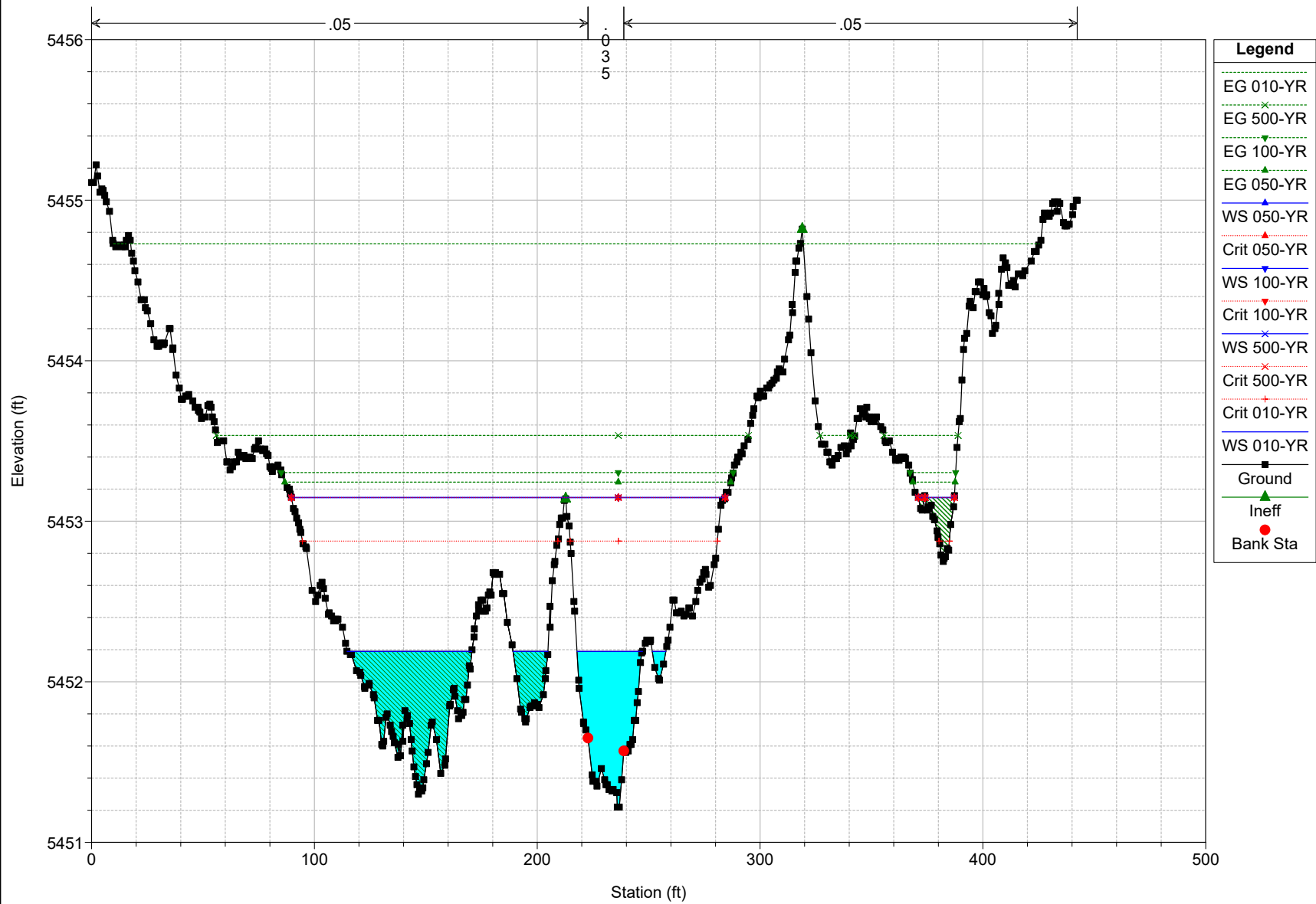


Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 4469

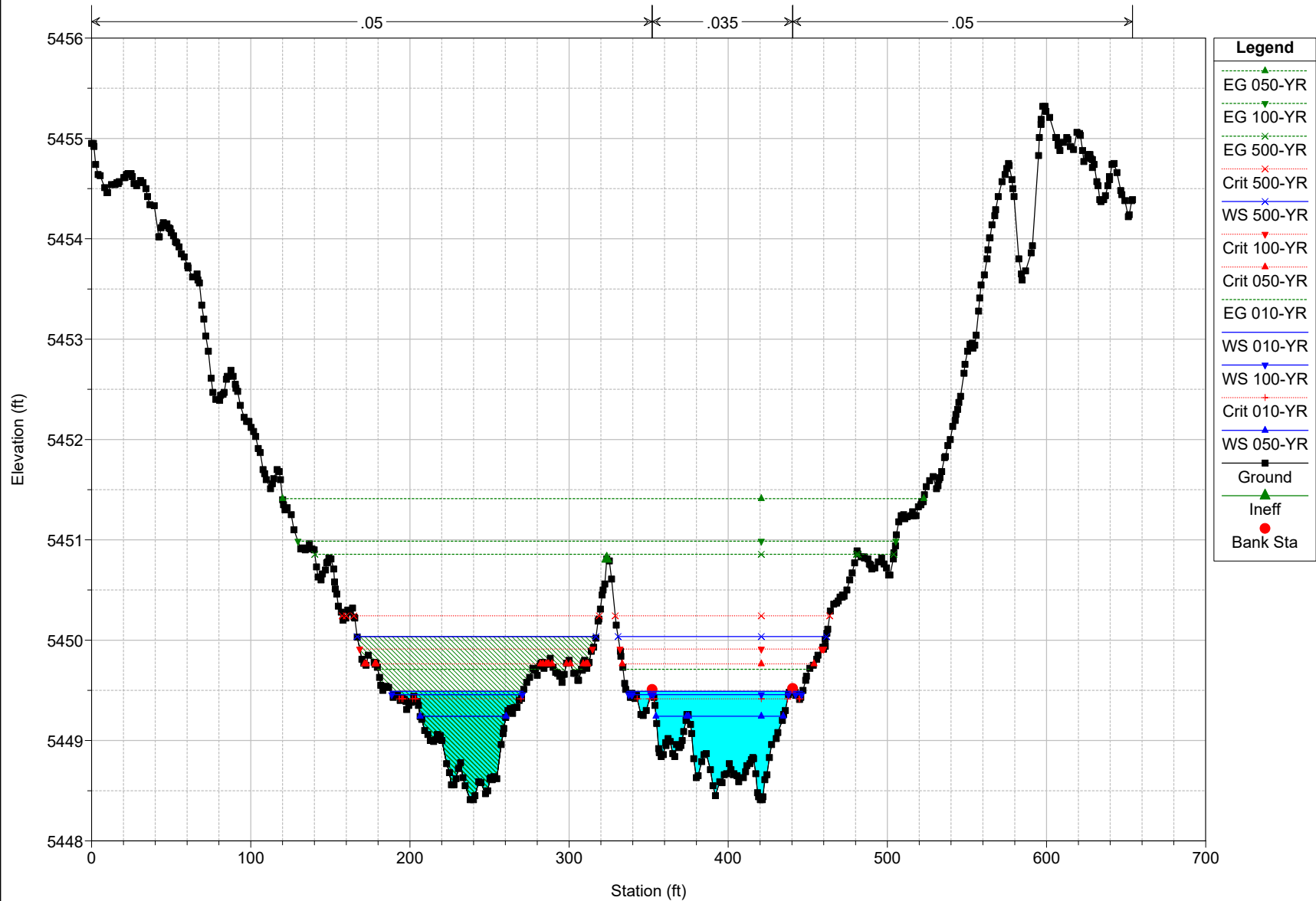


River = Rainbow Trib Reach = North-DS-0 RS = 4241



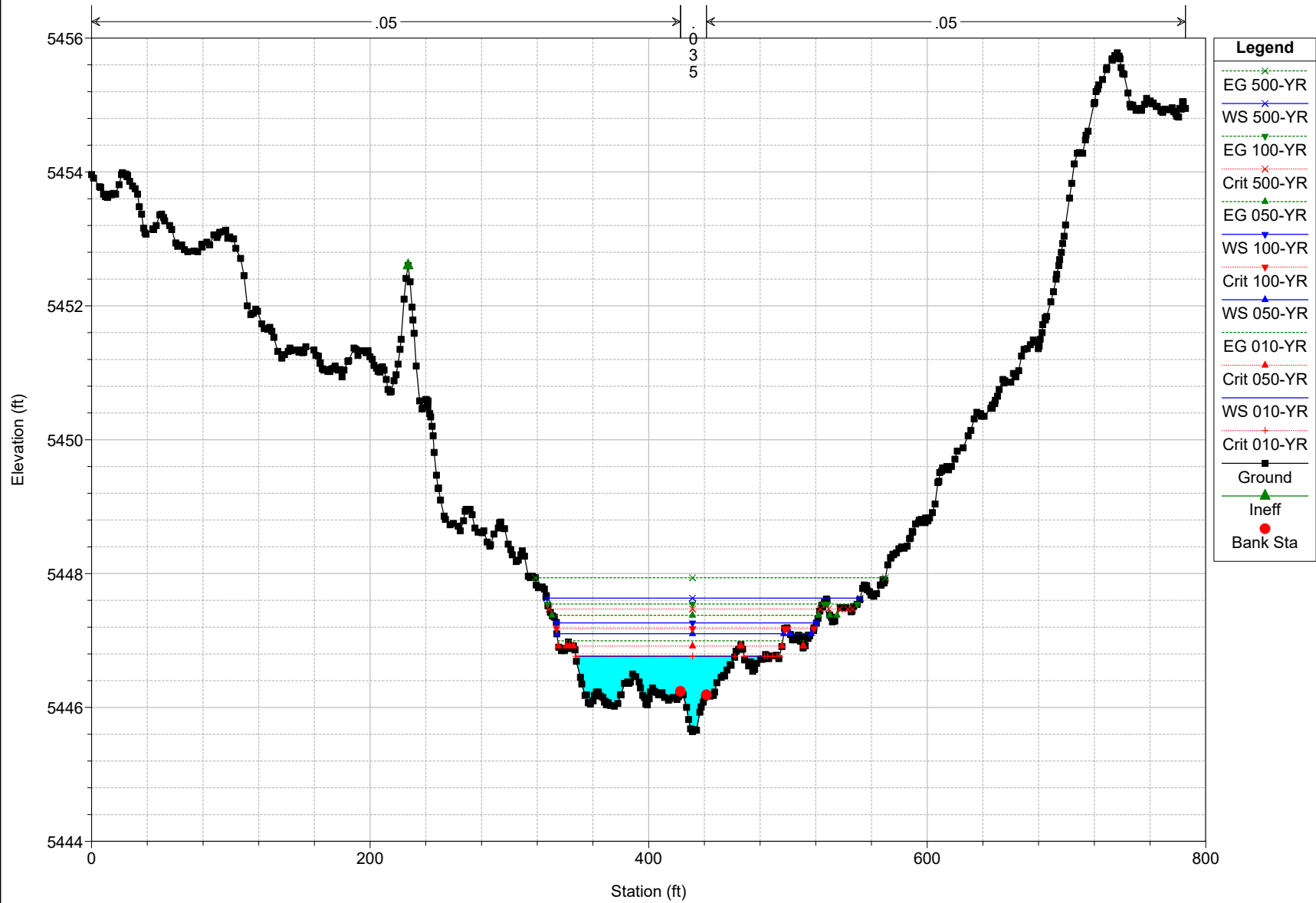
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 4112



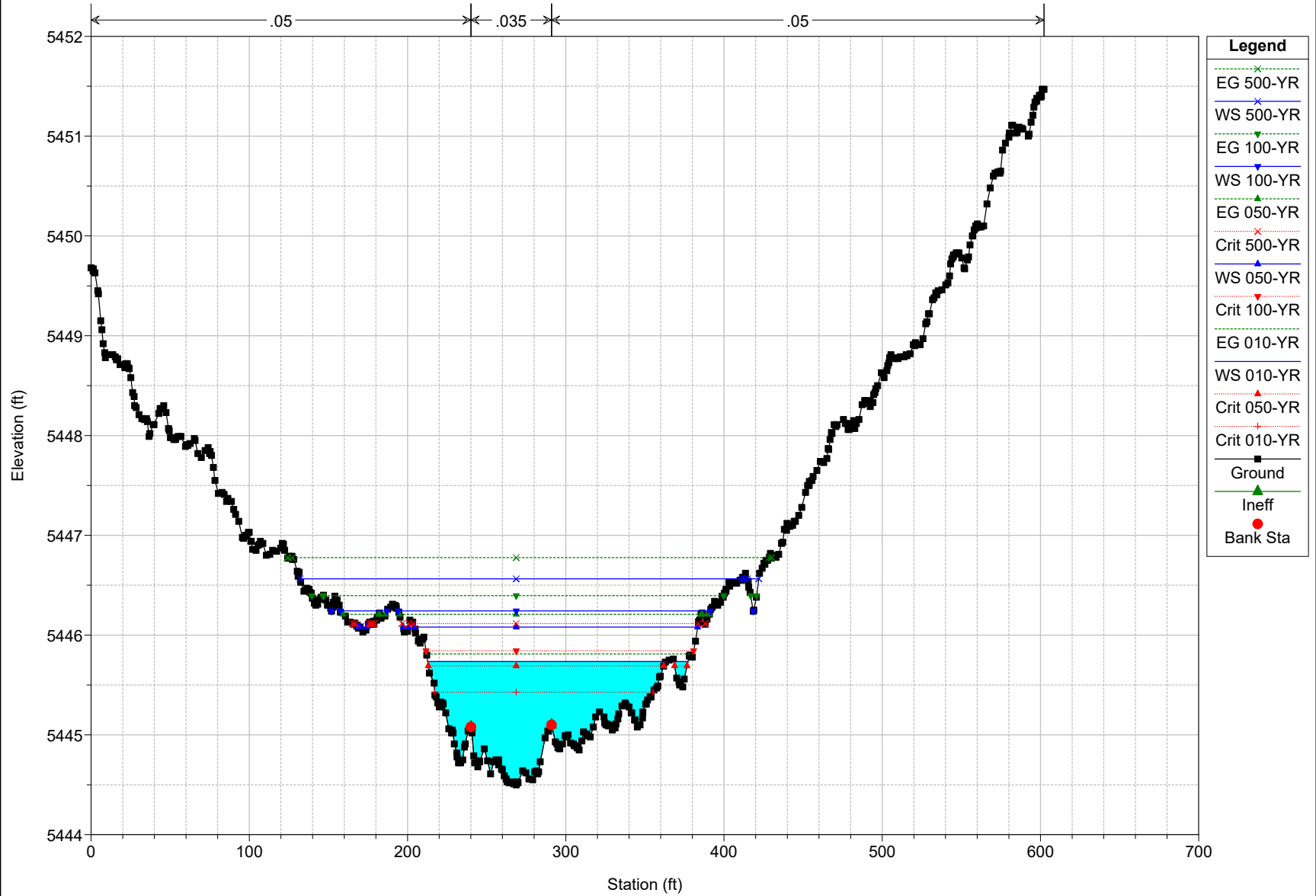
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 3947



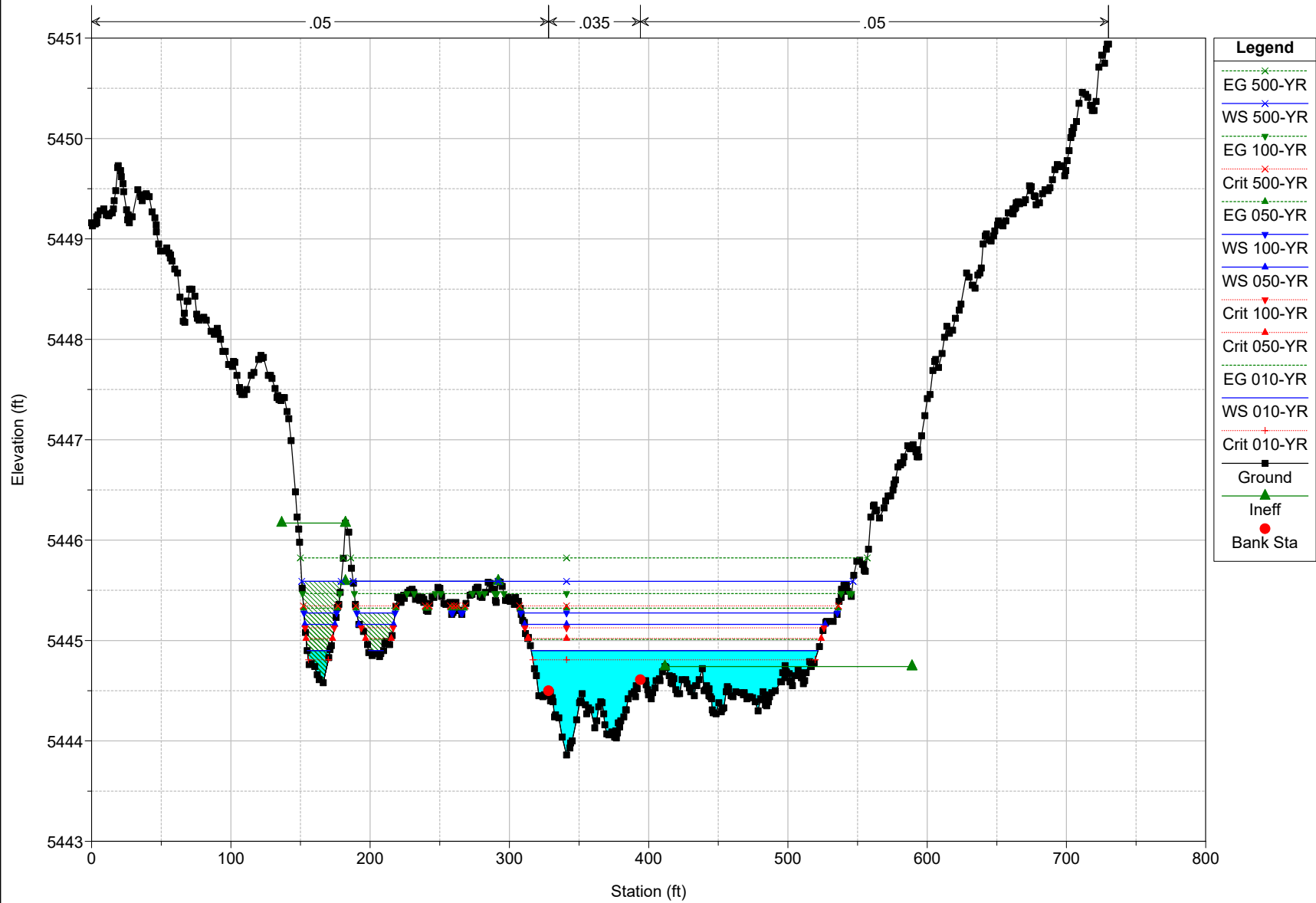
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 3802



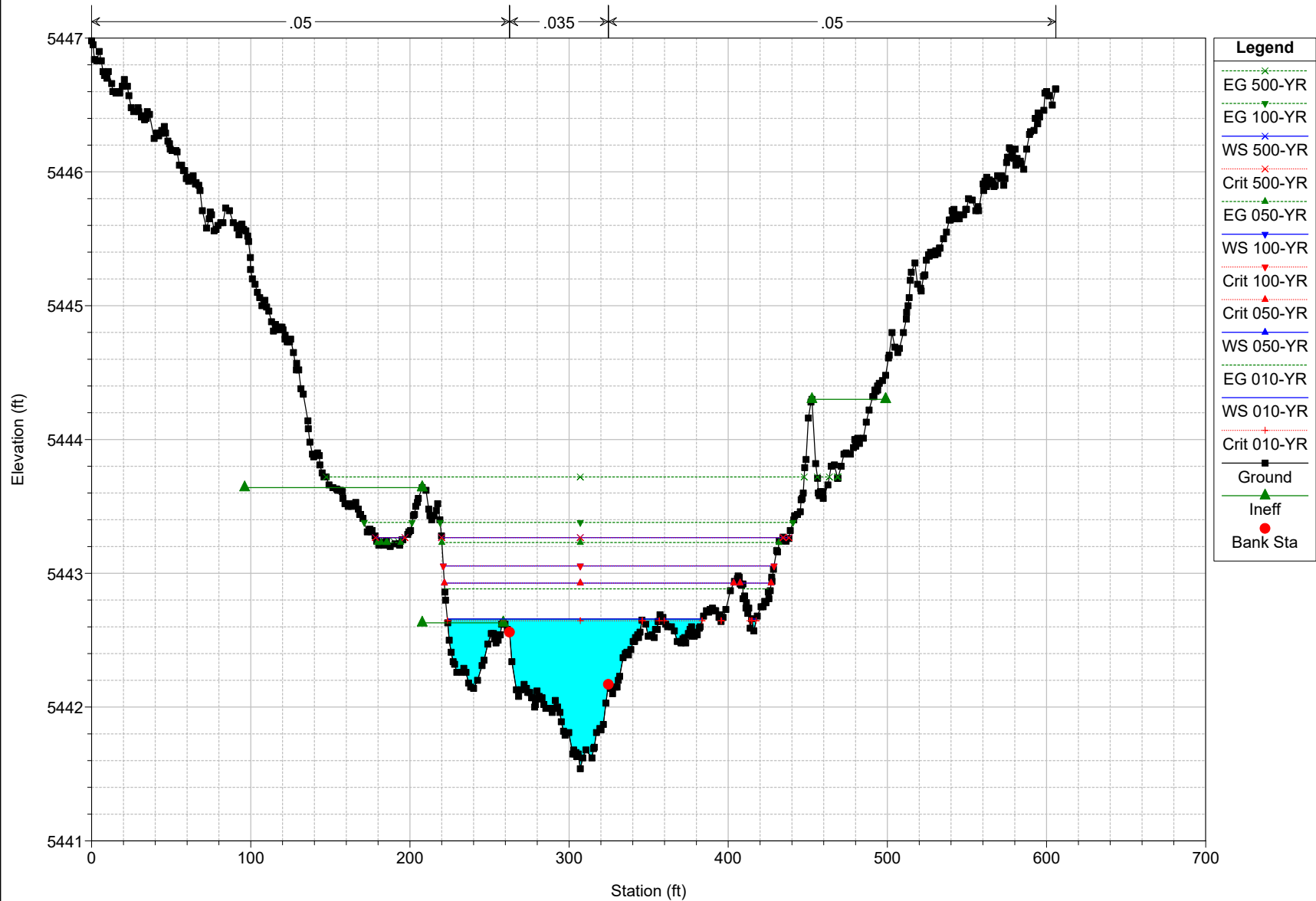
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 3660

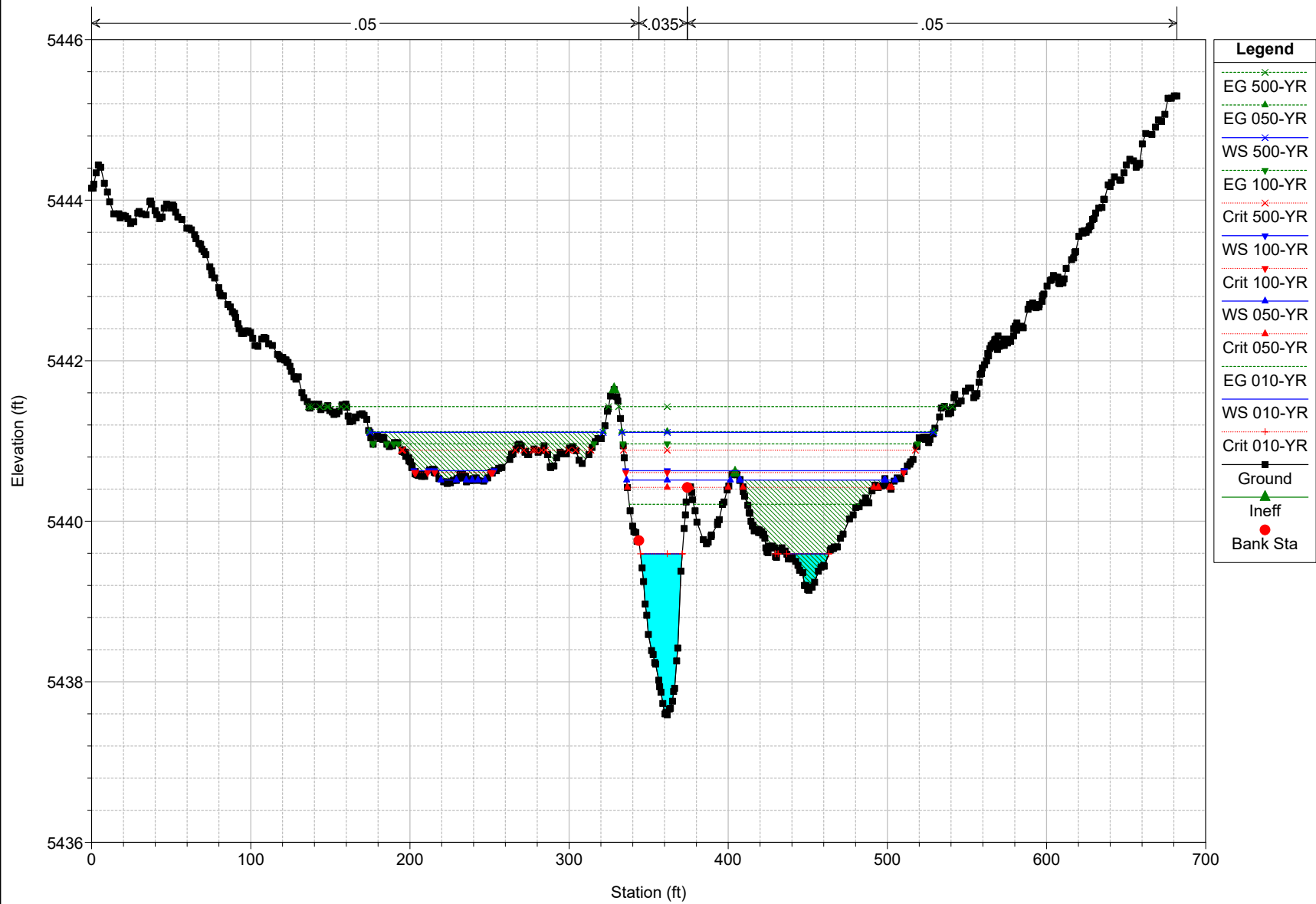


Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 3477

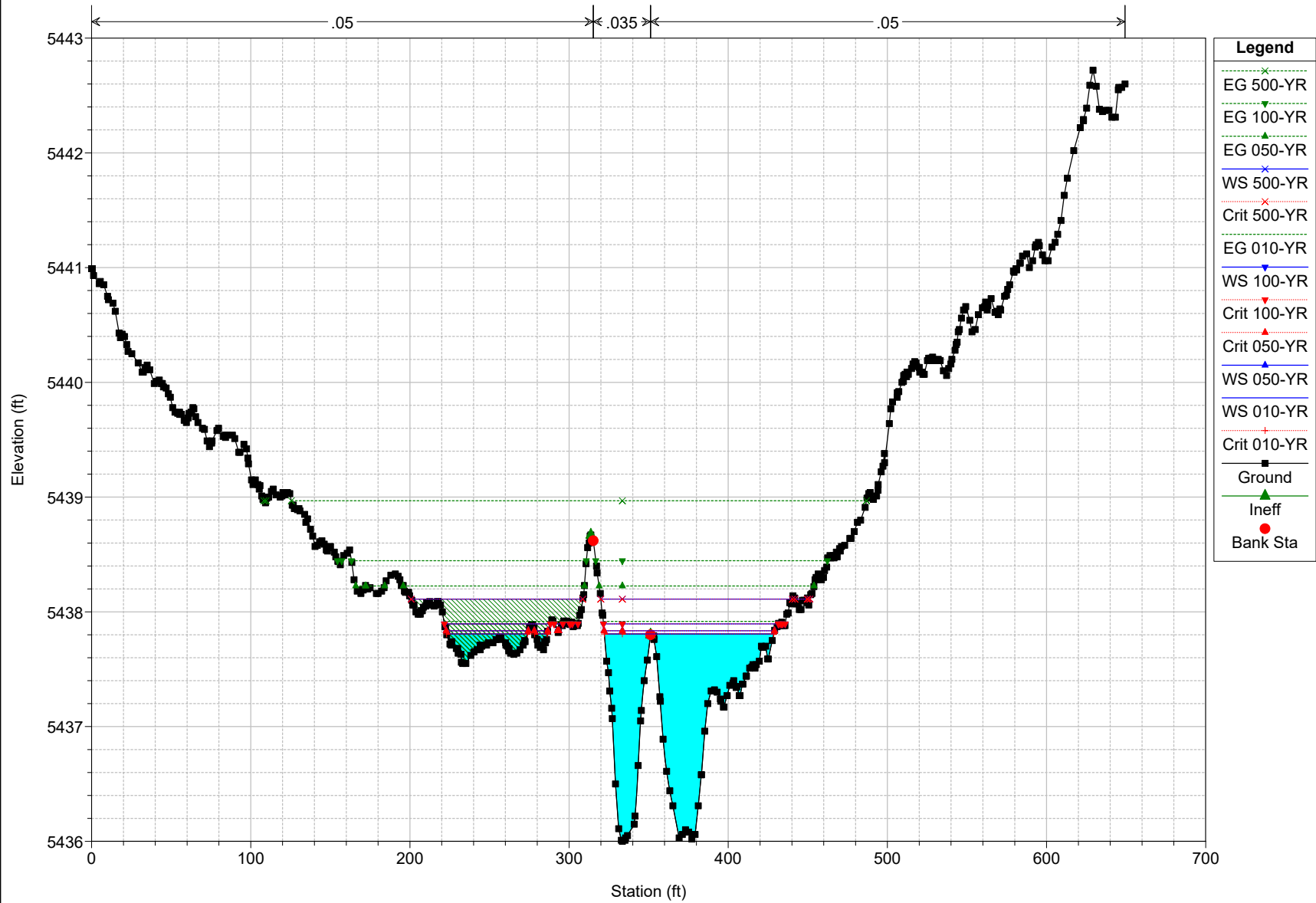


River = Rainbow Trib Reach = North-DS-0 RS = 3300



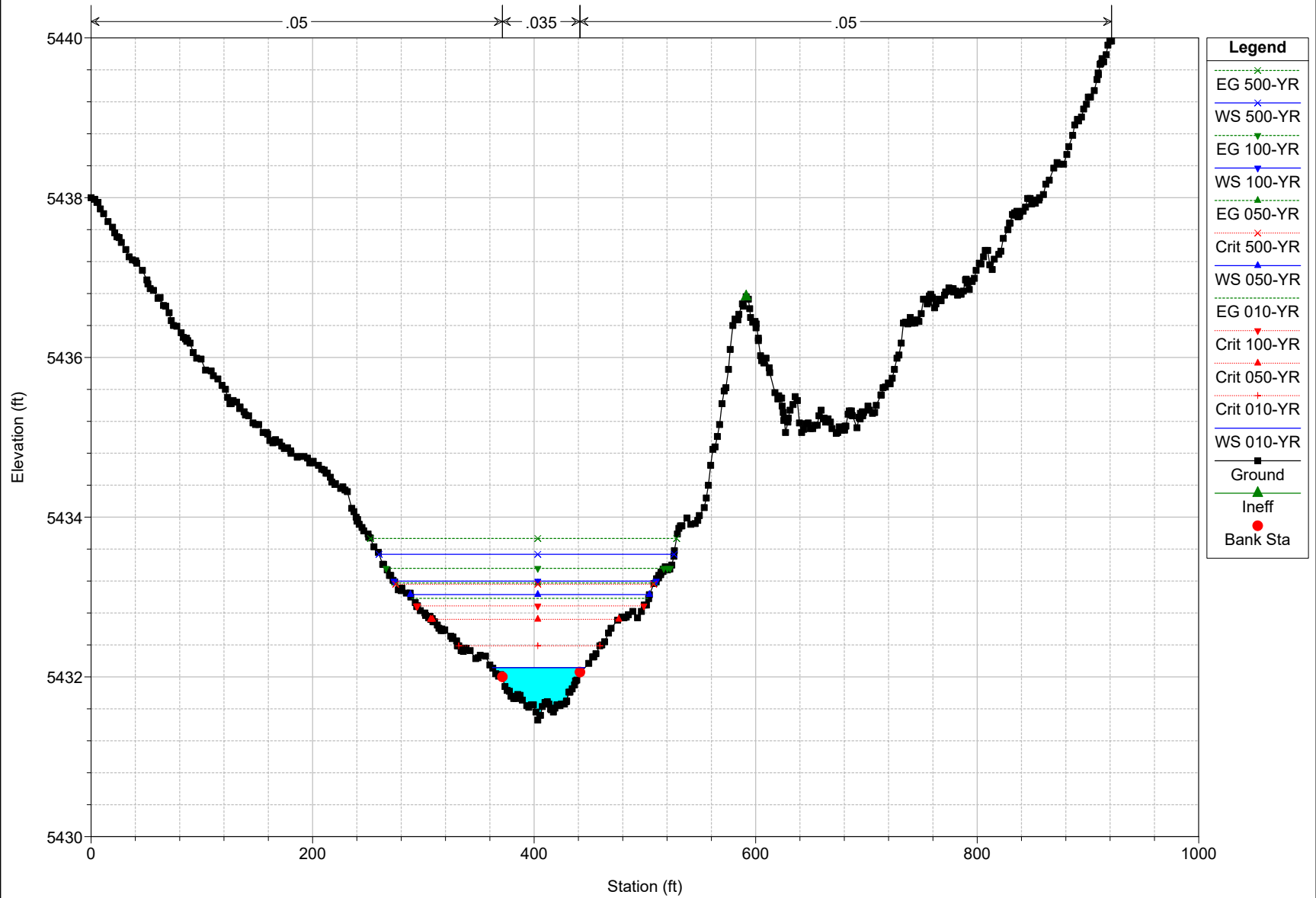
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 3085



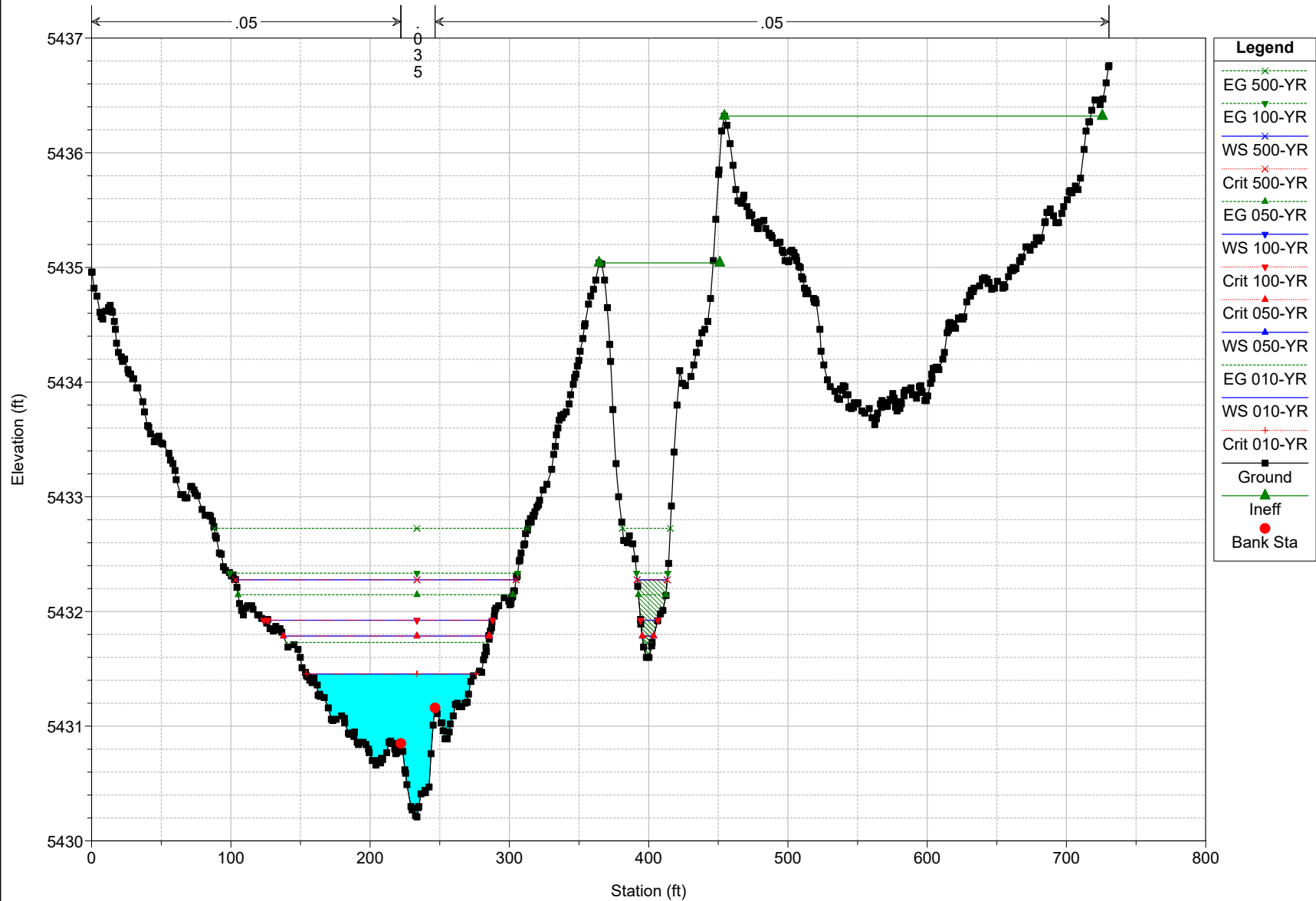
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 2757



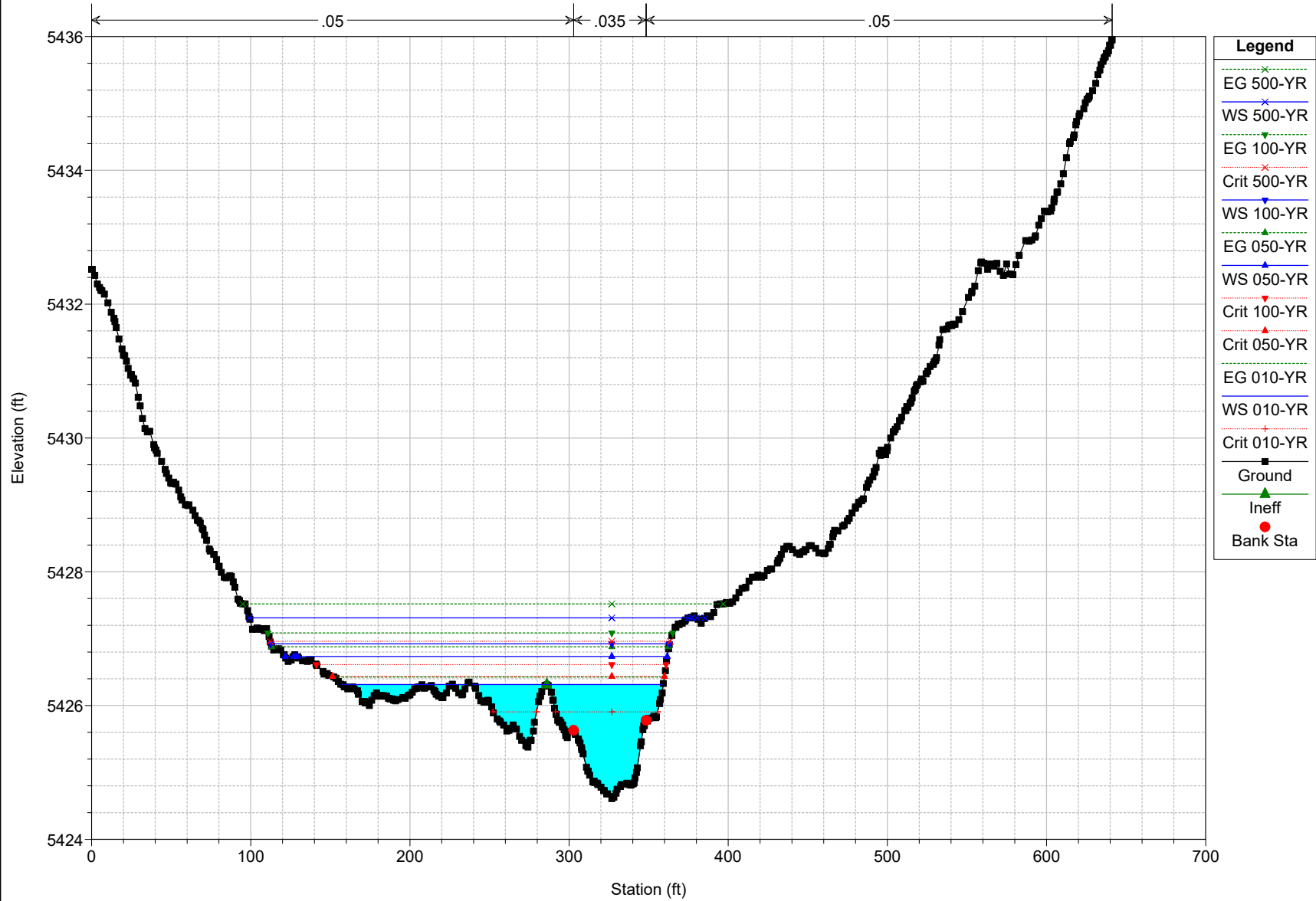
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 2627



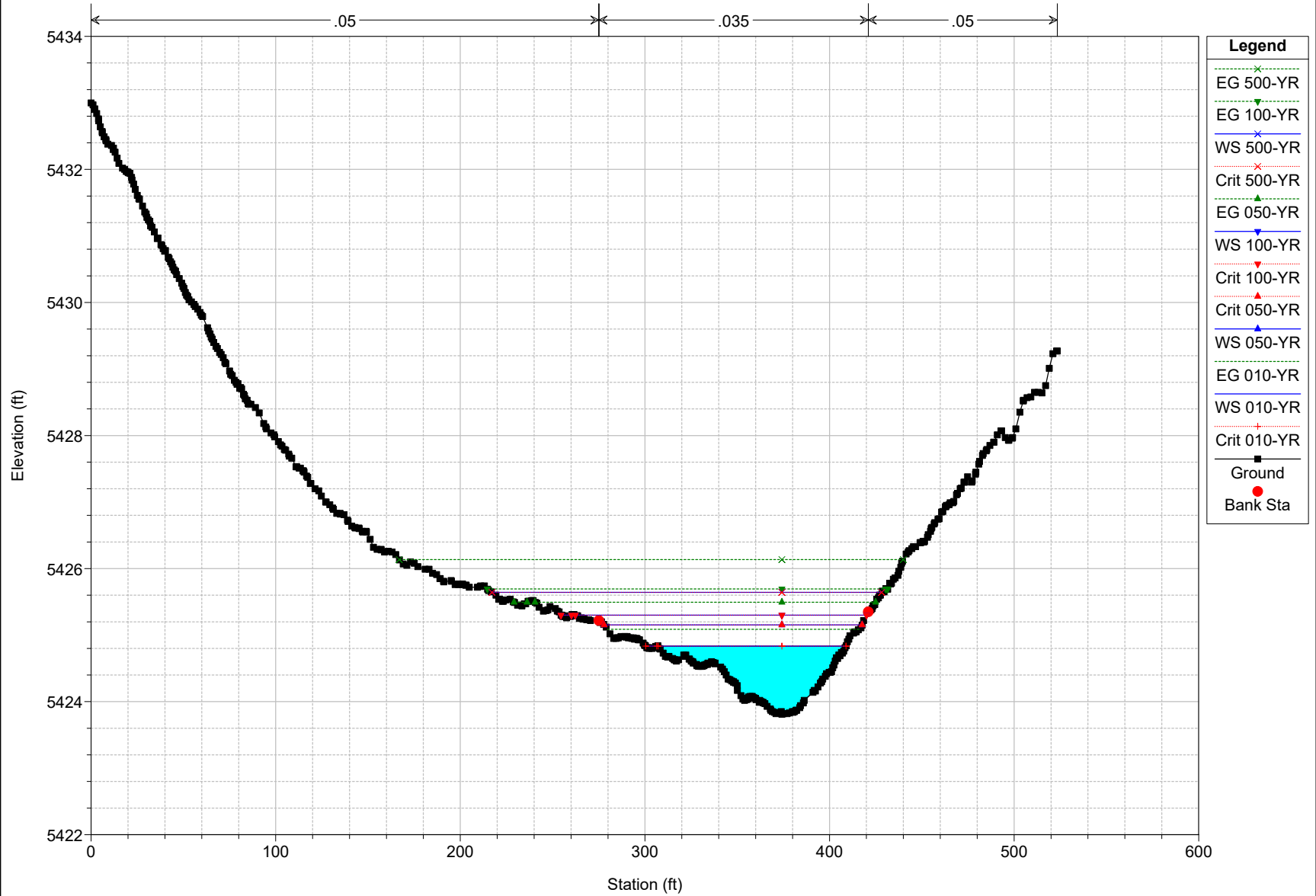
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 2237

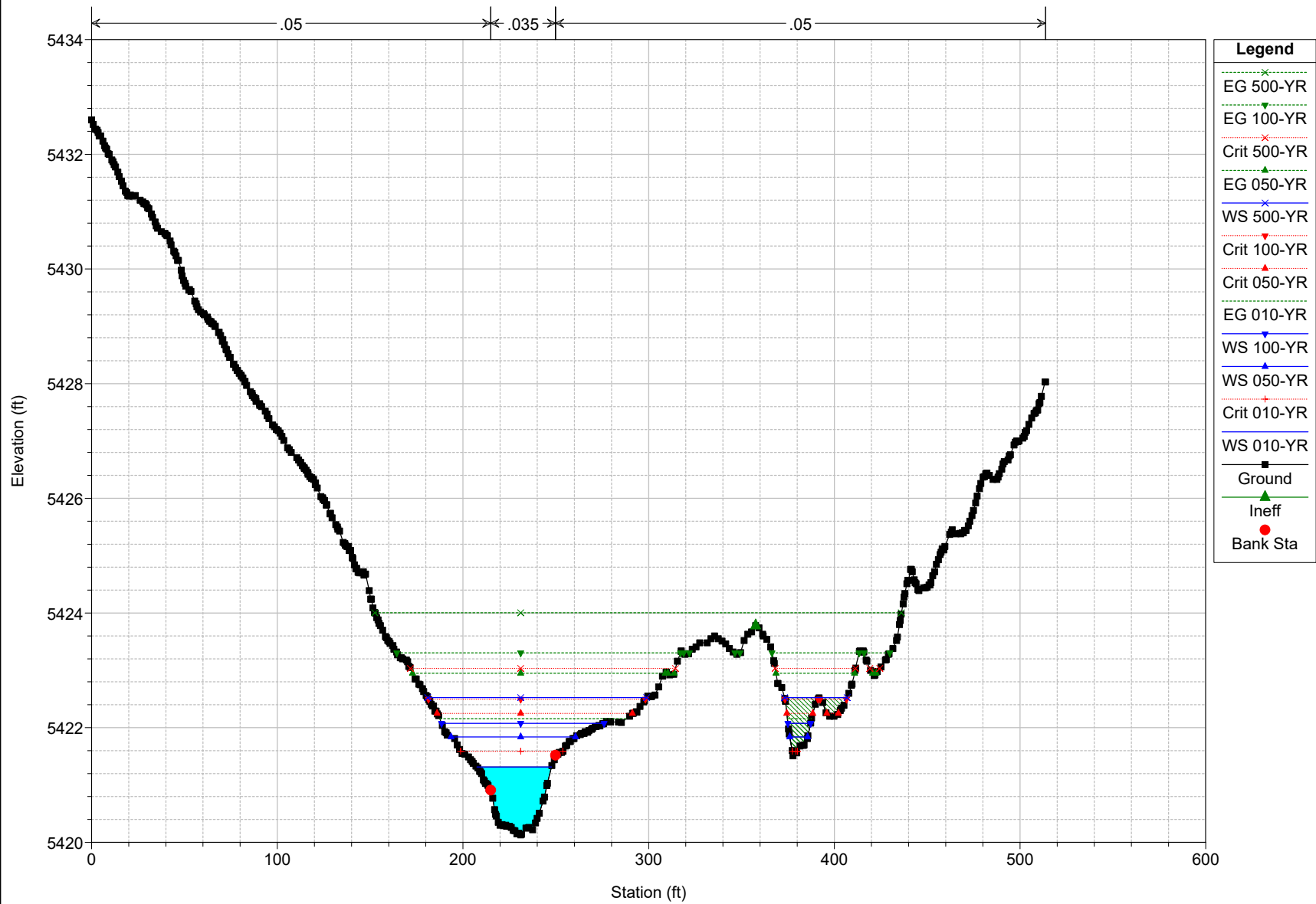


Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 2046

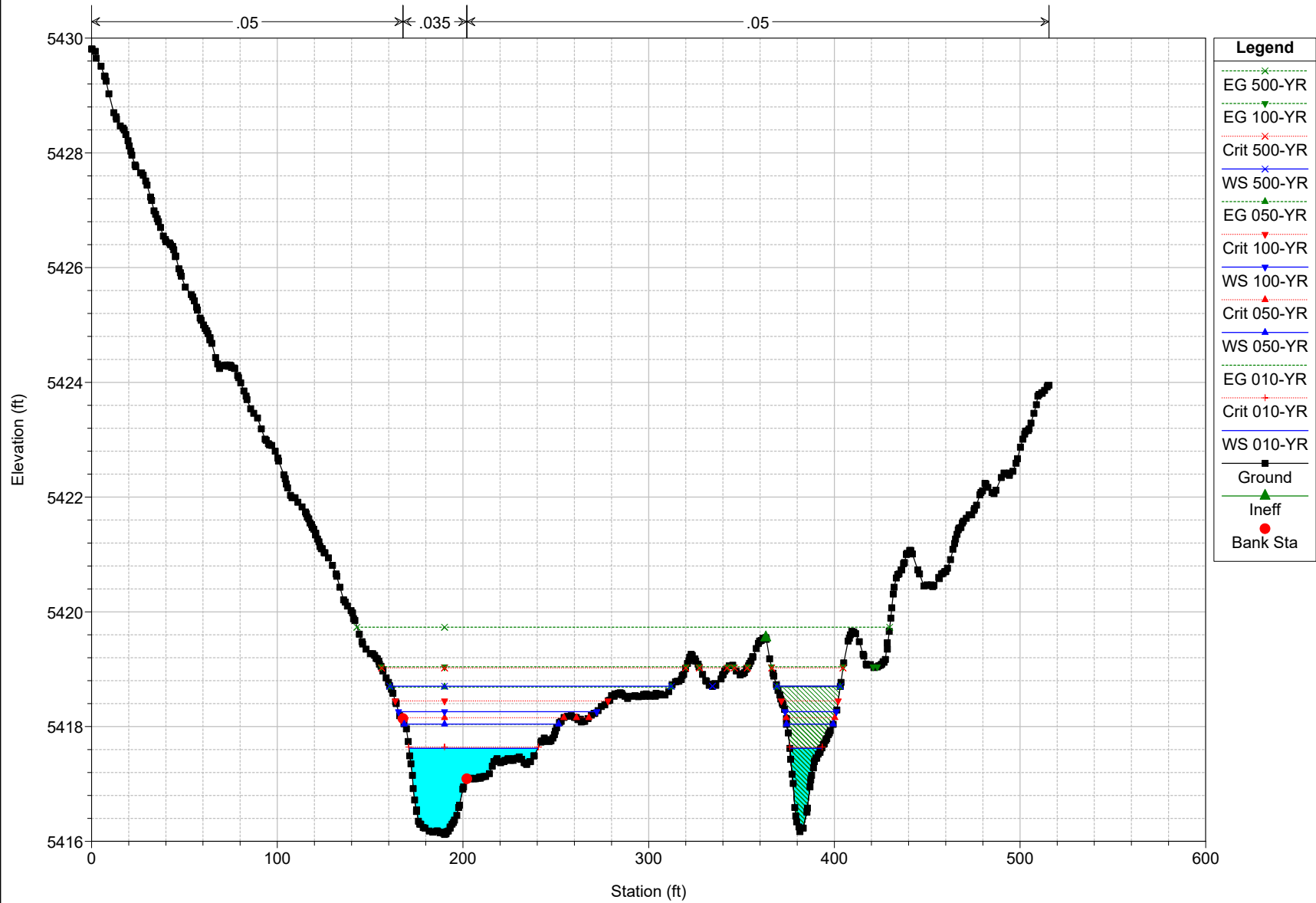


River = Rainbow Trib Reach = North-DS-0 RS = 1944



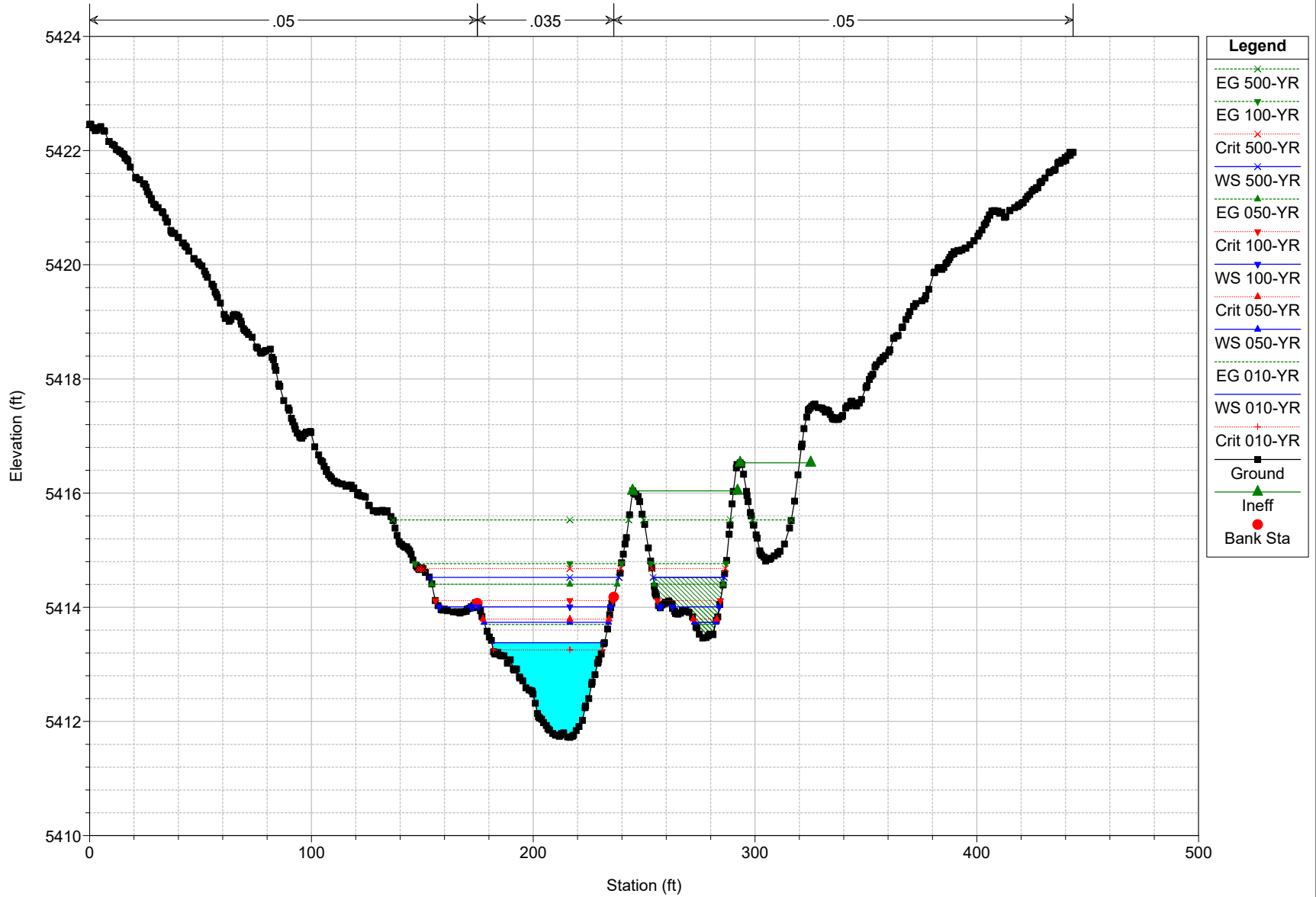
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 1749



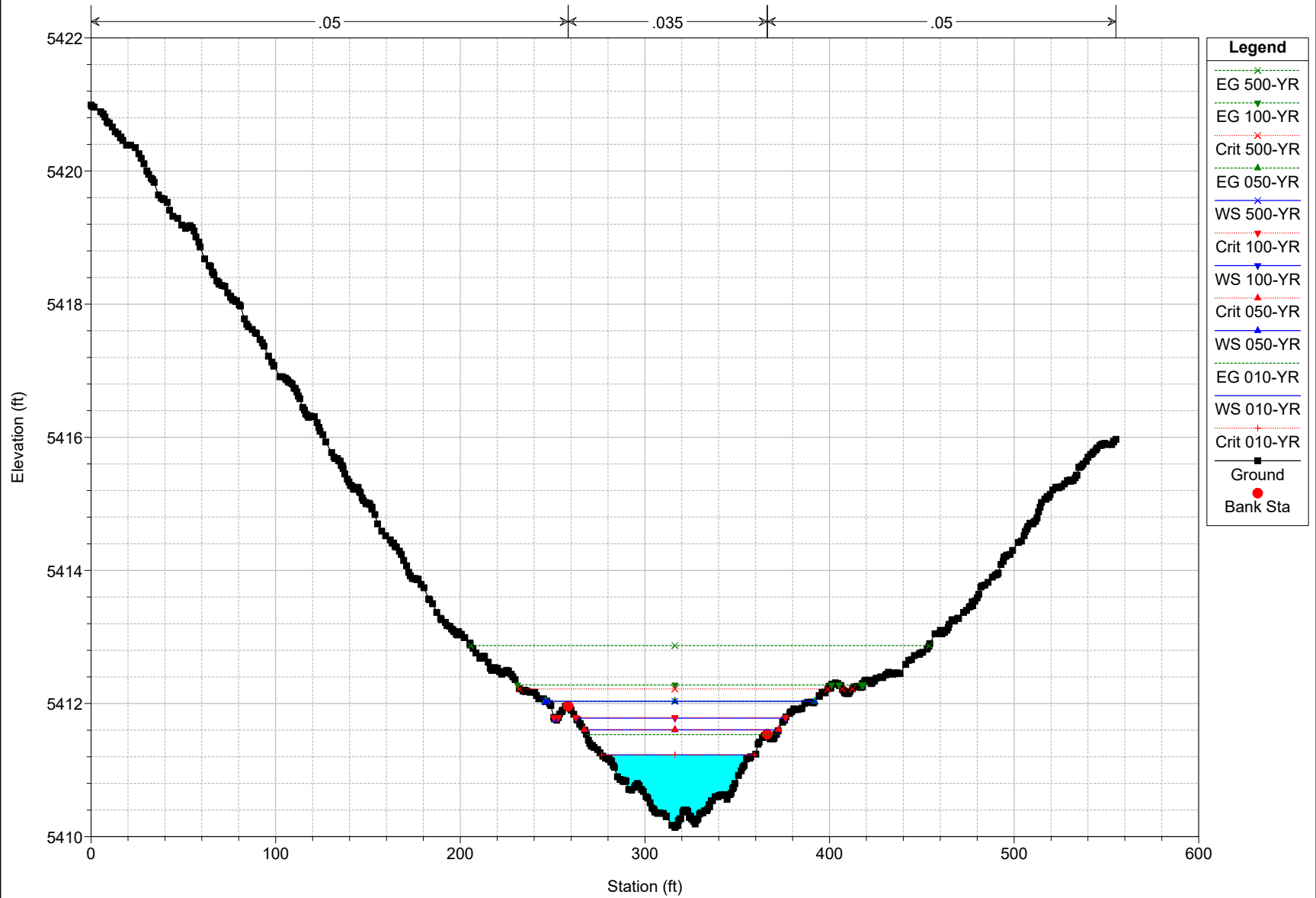
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 1502



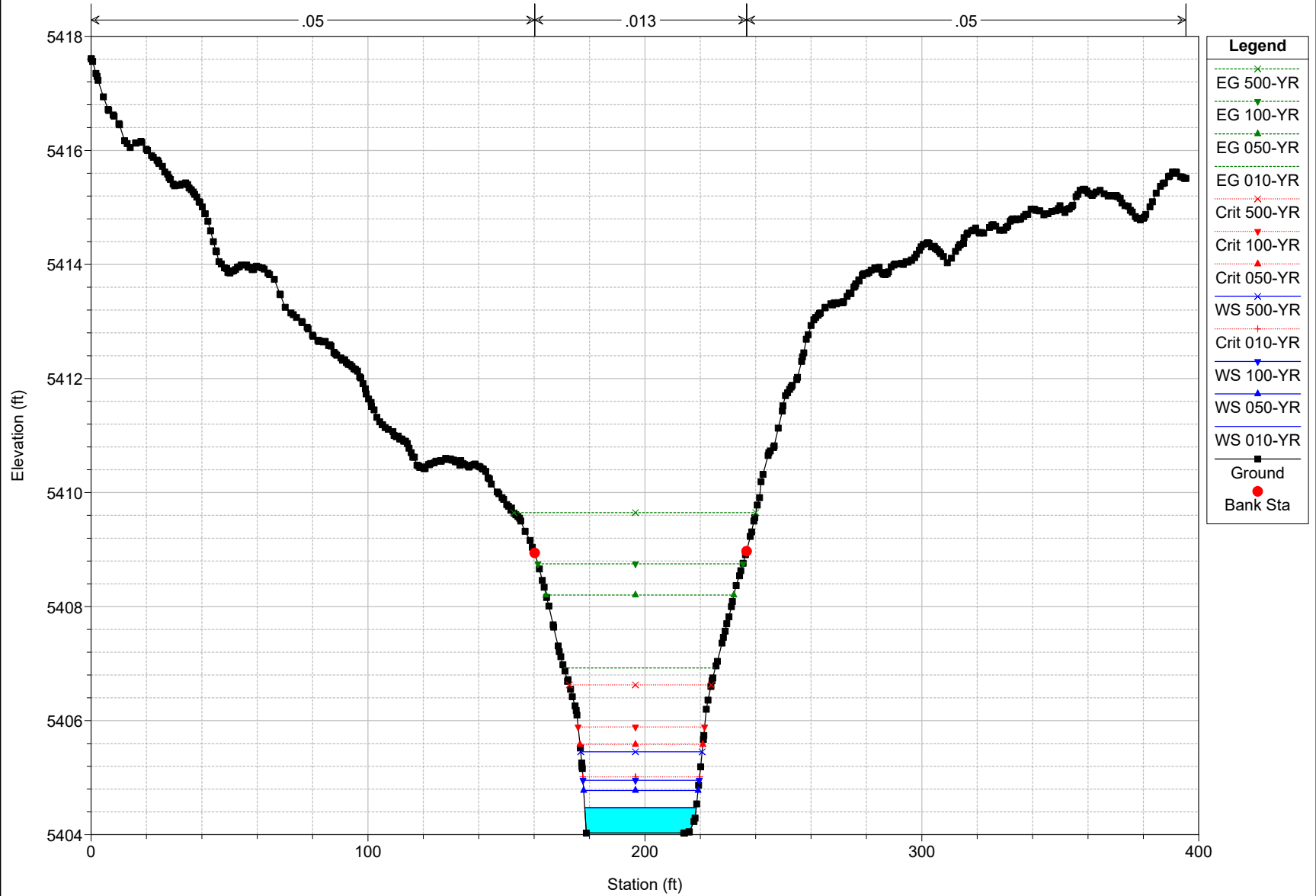
Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 1369

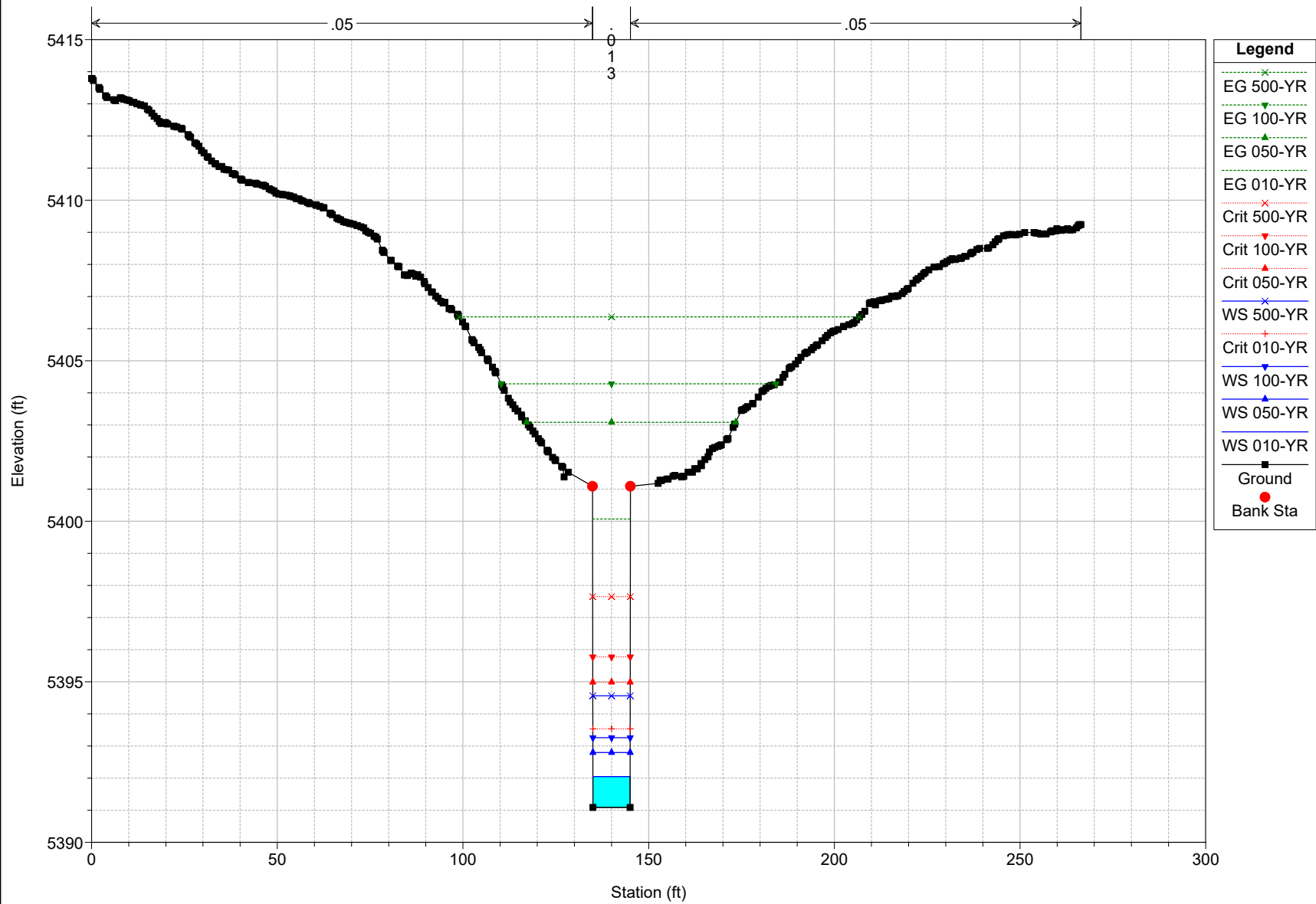


Rainbow Tributary Plan: Revised Existing 3/22/2021

River = Rainbow Trib Reach = North-DS-0 RS = 1210



River = Rainbow Trib Reach = North-DS-0 RS = 1068



River = Rainbow Trib Reach = North-DS-0 RS = 1000

