

**EXISTING CONDITIONS  
FLOODWAY HEC RAS OUTPUT**

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HEC-RAS Plan: exFW River, Trib 25 Reach: bald hill

Reach	River Sta	Profile	W.S. Elev (ft)	Fwd Delta WS (ft)	E.G. Elev (ft)	Top Width Act (ft)	Vel Head (ft)	Epic Sta L (ft)	Ch Sta L (ft)	Ch Sta R (ft)	Emp Sta R (ft)	Sta W.S. Lf (ft)	Sta W.S. Rgt (ft)	Epic Val 1 (ft)	Epic Val 2 (ft)	K Fac L	K Fac R
bald hill	2220	100-yr Floodway 1	582.96		584.10	38.09	1.14	4991.00	4991.00	5009.00	5009.00	4975.67	5012.35	0.80			
bald hill	2220	Floodway 1	583.80	0.84	584.52	18.00	0.72	4991.00	4991.00	5009.00	5009.00	4991.00	5009.00	0.80		5.96	1.27
bald hill	2300	100-yr Floodway 1	584.44	0.16	585.05	36.56	0.65	4989.00	4989.00	5015.00	5015.00	4988.11	5024.67	0.60			
bald hill	2300	Floodway 1	584.61		585.20	28.00	0.60	4989.00	4989.00	5015.00	5015.00	4989.00	5015.00	0.60		0.08	2.64
bald hill	2400	100-yr Floodway 1	585.75		586.86	26.76	1.11	4989.00	4989.00	5012.00	5012.00	4987.50	5014.26	0.50			
bald hill	2400	Floodway 1	585.74	-0.02	586.87	23.00	1.13	4989.00	4989.00	5012.00	5012.00	4989.00	5012.00	0.50		0.35	0.54
bald hill	2550	100-yr Floodway 1	589.17		590.19	28.36	1.02	4985.00	4985.00	5012.00	5012.00	4983.81	5012.17	0.50			
bald hill	2550	Floodway 1	589.17		590.19	27.00	1.02	4985.00	4985.00	5012.00	5012.00	4985.00	5012.00	0.50		0.25	0.03
bald hill	2800	100-yr Floodway 1	595.01		595.53	134.59	0.52	4987.21	4987.21	5009.00	5009.00	4875.96	5010.56	0.60		44.40	0.27
bald hill	2800	Floodway 1	595.60	0.59	596.61	41.79	1.01	4987.21	4987.21	5009.00	5009.00	4967.21	5009.00	0.60			
bald hill	2990	100-yr Floodway 1	596.90		597.58	28.94	0.67	4986.00	4986.00	5010.00	5010.00	4981.23	5010.17	0.30			
bald hill	2990	Floodway 1	597.65	0.75	598.07	24.00	0.42	4986.00	4986.00	5010.00	5010.00	4986.00	5010.00	0.30		0.32	0.01
bald hill	3085	100-yr Floodway 1	597.70		598.76	23.34	1.07	4991.00	4991.00	5010.00	5010.00	4989.44	5010.78	0.40			
bald hill	3085	Floodway 1	597.97	0.27	598.86	19.00	0.89	4991.00	4991.00	5010.00	5010.00	4991.00	5010.00	0.40		0.20	0.48
bald hill	3135	100-yr Floodway 1	598.65		599.26	33.14	0.63	4990.00	4990.00	5011.00	5011.00	4981.03	5014.17	0.40			
bald hill	3135	Floodway 1	598.72	0.07	599.34	21.00	0.63	4990.00	4990.00	5011.00	5011.00	4990.00	5010.00	0.40		1.54	0.89
bald hill	3200	100-yr Floodway 1	599.28		599.59	47.76	0.51	4986.00	4986.00	5013.00	5013.00	4973.70	5021.46	0.40			
bald hill	3200	Floodway 1	599.36	0.09	599.67	27.00	0.31	4986.00	4986.00	5013.00	5013.00	4986.00	5013.00	0.40		1.17	0.85
bald hill	3300	100-yr Floodway 1	599.56		599.86	44.95	0.39	4987.00	4987.00	5013.00	5013.00	4981.06	5026.01	0.50			
bald hill	3300	Floodway 1	599.66	0.09	600.04	26.00	0.38	4987.00	4987.00	5013.00	5013.00	4987.00	5013.00	0.50		0.80	1.72

Plan: exFW Trib 25 bald hill RS: 2300 Profile: 100-yr.

E.G. Elev (ft)	585.09	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.65	Wt. n-Val.	0.100	0.040	0.100
W.S. Elev (ft)	584.44	Reach Len. (ft)	80.00	80.00	80.00
Chl. W.S. (ft)		Flow Area (sq ft)	0.20	66.86	5.46
E.G. Slope (ft/ft)	0.009151	Area (sq ft)	0.20	66.86	5.46
Q Total (cfs)	440.00	Flow (cfs)	0.10	434.63	5.27
Top Width (ft)	36.56	Top Width (ft)	0.89	26.00	9.67
Vel Total (ft/s)	6.07	Avg. Vel. (ft/s)	0.48	6.50	0.97
Max Chl Dpth (ft)	3.14	Hydr. Depth (ft)	0.22	2.57	0.56
Conv. Total (cfs)	4599.5	Conv. (cfs)	1.0	4543.4	55.1
Length Wtd. (ft)	80.00	Wetted Per. (ft)	0.99	27.02	9.72
Min Ch El (ft)	581.30	Shear (lb/sq ft)	0.11	1.41	0.32
Alpha	1.13	Stream Power (lb/ft s)	0.06	9.19	0.31
Frctn Loss (ft)	0.94	Cum Volume (acre-ft)	0.01	0.11	0.01
C & E Loss (ft)	0.05	Cum SA (acres)	0.01	0.04	0.01

Plan: exFW Trib 25 bald hill RS: 2300 Profile: Floodway 1

E.G. Elev (ft)	585.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.60	Wt. n-Val.		0.040	
W.S. Elev (ft)	584.61	Reach Len. (ft)	80.00	80.00	80.00
Chl. W.S. (ft)		Flow Area (sq ft)		71.08	
E.G. Slope (ft/ft)	0.008302	Area (sq ft)		71.08	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	26.00	Top Width (ft)		26.00	
Vel Total (ft/s)	6.19	Avg. Vel. (ft/s)		6.19	
Max Chl Dpth (ft)	3.31	Hydr. Depth (ft)		2.73	
Conv. Total (cfs)	4829.2	Conv. (cfs)		4829.2	
Length Wtd. (ft)	80.00	Wetted Per. (ft)		28.74	
Min Ch El (ft)	581.30	Shear (lb/sq ft)		1.28	
Alpha	1.00	Stream Power (lb/ft s)		7.94	
Frctn Loss (ft)	0.67	Cum Volume (acre-ft)		0.12	
C & E Loss (ft)	0.01	Cum SA (acres)		0.04	

Plan: exFW Trib 25 bald hill RS: 2220 Profile: 100-yr.

E.G. Elev (ft)	584.10	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.14	Wt. n-Val.	0.100	0.040	0.100
W.S. Elev (ft)	582.96	Reach Len. (ft)			
Chl. W.S. (ft)	582.96	Flow Area (sq ft)	7.35	49.50	1.61
E.G. Slope (ft/ft)	0.015856	Area (sq ft)	7.35	49.50	1.61
Q Total (cfs)	440.00	Flow (cfs)	8.35	429.86	1.78
Top Width (ft)	36.69	Top Width (ft)	15.33	18.00	3.35
Vel Total (ft/s)	7.53	Avg. Vel. (ft/s)	1.14	8.68	1.11
Max Chl Dpth (ft)	3.26	Hydr. Depth (ft)	0.48	2.75	0.48
Conv. Total (cfs)	3516.5	Conv. (cfs)	66.8	3435.5	14.2
Length Wtd. (ft)		Wetted Per. (ft)	15.36	19.38	3.49
Min Ch El (ft)	579.70	Shear (lb/sq ft)	0.47	2.50	0.45
Alpha	1.30	Stream Power (lb/ft s)	0.53	21.68	0.50
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: exFW Trib 25 bald hill RS: 2220 Profile: Floodway 1

E.G. Elev (ft)	584.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.72	Wt. n-Val.		0.040	
W.S. Elev (ft)	583.80	Reach Len. (ft)			
Chl. W.S. (ft)	582.84	Flow Area (sq ft)		64.65	
E.G. Slope (ft/ft)	0.008454	Area (sq ft)		64.65	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	18.00	Top Width (ft)		18.00	
Vel Total (ft/s)	6.81	Avg. Vel. (ft/s)		6.81	
Max Chl Dpth (ft)	4.10	Hydr. Depth (ft)		3.59	
Conv. Total (cfs)	4785.5	Conv. (cfs)		4785.5	
Length Wtd. (ft)		Wetted Per. (ft)		22.98	
Min Ch El (ft)	579.70	Shear (lb/sq ft)		1.48	
Alpha	1.00	Stream Power (lb/ft s)		10.10	
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

Plan: exFW Trib 25 bald hill RS: 2550 Profile: 100-yr.

E.G. Elev (ft)	590.19	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.02	W.L.n.Val.	0.100	0.040	0.100
W.S. Elev (ft)	589.17	Reach Len. (ft)	150.00	150.00	150.00
Crit W.S. (ft)	589.17	Flow Area (sq ft)	0.10	54.25	0.01
E.G. Slope (ft/ft)	0.019601	Area (sq ft)	0.10	54.25	0.01
Q Total (cfs)	440.00	Flow (cfs)	0.04	439.95	0.00
Top Width (ft)	28.36	Top Width (ft)	1.19	27.00	0.17
Vel Total (ft/s)	8.09	Avg Vel. (ft/s)	0.40	8.11	0.32
Max Chl Dpth (ft)	2.87	Hydr. Depth (ft)	0.09	2.01	0.09
Conv. Total (cfs)	3142.8	Conv. (cfs)	0.3	3142.5	0.0
Length Wtd. (ft)	150.00	Wetted Per. (ft)	1.20	27.86	0.24
Min Chl El (ft)	586.30	Shear (lb/sq ft)	0.10	2.38	0.07
Alpha	1.00	Stream Power (lb/ft s)	0.04	19.33	0.02
Frctn Loss (ft)	2.87	Cum Volume (acre-ft)	0.01	0.43	0.02
C & E Loss (ft)	0.01	Cum SA (acres)	0.02	0.18	0.03

Plan: exFW Trib 25 bald hill RS: 2550 Profile: Floodway 1

E.G. Elev (ft)	590.19	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.02	W.L.n.Val.		0.040	
W.S. Elev (ft)	589.17	Reach Len. (ft)	150.00	150.00	150.00
Crit W.S. (ft)	589.17	Flow Area (sq ft)		54.17	
E.G. Slope (ft/ft)	0.020009	Area (sq ft)		54.17	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	27.00	Top Width (ft)		27.00	
Vel Total (ft/s)	8.12	Avg Vel. (ft/s)		8.12	
Max Chl Dpth (ft)	2.87	Hydr. Depth (ft)		2.01	
Conv. Total (cfs)	3110.6	Conv. (cfs)		3110.6	
Length Wtd. (ft)	150.00	Wetted Per. (ft)		28.19	
Min Chl El (ft)	586.30	Shear (lb/sq ft)		2.40	
Alpha	1.00	Stream Power (lb/ft s)		19.50	
Frctn Loss (ft)	3.06	Cum Volume (acre-ft)		0.45	
C & E Loss (ft)	0.01	Cum SA (acres)		0.18	

Plan: exFW Trib 25 bald hill RS: 2400 Profile: 100-yr.

E.G. Elev (ft)	586.86	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.11	W.L.n.Val.	0.100	0.040	0.100
W.S. Elev (ft)	585.75	Reach Len. (ft)	100.00	100.00	100.00
Crit W.S. (ft)	585.75	Flow Area (sq ft)	0.57	51.84	0.85
E.G. Slope (ft/ft)	0.018705	Area (sq ft)	0.57	51.84	0.85
Q Total (cfs)	440.00	Flow (cfs)	0.56	438.58	0.87
Top Width (ft)	26.76	Top Width (ft)	1.50	23.00	2.25
Vel Total (ft/s)	8.26	Avg Vel. (ft/s)	0.98	8.46	1.02
Max Chl Dpth (ft)	2.45	Hydr. Depth (ft)	0.38	2.25	0.38
Conv. Total (cfs)	3217.2	Conv. (cfs)	4.1	3206.8	6.3
Length Wtd. (ft)	100.00	Wetted Per. (ft)	1.68	24.12	2.38
Min Chl El (ft)	583.30	Shear (lb/sq ft)	0.39	2.51	0.42
Alpha	1.05	Stream Power (lb/ft s)	0.39	21.23	0.43
Frctn Loss (ft)	1.27	Cum Volume (acre-ft)	0.01	0.24	0.01
C & E Loss (ft)	0.14	Cum SA (acres)	0.02	0.10	0.03

Plan: exFW Trib 25 bald hill RS: 2400 Profile: Floodway 1

E.G. Elev (ft)	586.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.13	W.L.n.Val.		0.040	
W.S. Elev (ft)	585.74	Reach Len. (ft)	100.00	100.00	100.00
Crit W.S. (ft)	585.74	Flow Area (sq ft)		51.49	
E.G. Slope (ft/ft)	0.020844	Area (sq ft)		51.49	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	23.00	Top Width (ft)		23.00	
Vel Total (ft/s)	8.55	Avg Vel. (ft/s)		8.55	
Max Chl Dpth (ft)	2.44	Hydr. Depth (ft)		2.24	
Conv. Total (cfs)	3047.6	Conv. (cfs)		3047.6	
Length Wtd. (ft)	100.00	Wetted Per. (ft)		25.60	
Min Chl El (ft)	583.30	Shear (lb/sq ft)		2.62	
Alpha	1.00	Stream Power (lb/ft s)		22.37	
Frctn Loss (ft)	1.25	Cum Volume (acre-ft)		0.27	
C & E Loss (ft)	0.16	Cum SA (acres)		0.10	

Plan: exFW Trib 25 bald hill RS: 2990 Profile: 100-yr.

E.G. Elev (ft)	597.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.87	W/n-Val	0.100	0.040	0.100
W.S. Elev (ft)	596.90	Reach Len. (ft)	150.00	190.00	190.00
Chl W.S. (ft)		Flow Area (sq ft)	0.49	66.75	0.01
E.G. Slope (ft/ft)	0.008958	Area (sq ft)	0.49	66.75	0.01
Q Total (cfs)	440.00	Flow (cfs)	0.15	439.85	0.00
Top Width (ft)	28.94	Top Width (ft)	4.77	24.00	0.17
Vel Total (ft/s)	6.54	Avg. Vel. (ft/s)	0.31	6.59	0.18
Max Chl Dpth (ft)	3.80	Hydr. Depth (ft)	0.10	2.78	0.05
Conv. Total (cfs)	4648.8	Conv. (cfs)	1.6	4647.2	0.0
Length Wid. (ft)	182.71	Wetted Per. (ft)	4.77	26.02	0.20
Min Ch El (ft)	593.10	Shear (lb/sq ft)	0.06	1.43	0.02
Alpha	1.01	Stream Power (lb/ft s)	0.02	9.45	0.00
Frctn Loss (ft)	2.01	Cum Volume (acre-ft)	0.42	0.92	0.02
C & E Loss (ft)	0.05	Cum SA (acres)	0.50	0.40	0.04

Plan: exFW Trib 25 bald hill RS: 2990 Profile: Floodway 1

E.G. Elev (ft)	598.07	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.42	W/n-Val		0.040	
W.S. Elev (ft)	597.65	Reach Len. (ft)	150.00	190.00	190.00
Chl W.S. (ft)		Flow Area (sq ft)		84.74	
E.G. Slope (ft/ft)	0.004426	Area (sq ft)		84.74	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	24.00	Top Width (ft)		24.00	
Vel Total (ft/s)	5.19	Avg. Vel. (ft/s)		5.19	
Max Chl Dpth (ft)	4.55	Hydr. Depth (ft)		3.53	
Conv. Total (cfs)	6613.8	Conv. (cfs)		6613.8	
Length Wid. (ft)	188.67	Wetted Per. (ft)		27.83	
Min Ch El (ft)	593.10	Shear (lb/sq ft)		0.84	
Alpha	1.00	Stream Power (lb/ft s)		4.37	
Frctn Loss (ft)	1.40	Cum Volume (acre-ft)	0.08	1.04	
C & E Loss (ft)	0.06	Cum SA (acres)	0.10	0.40	

Plan: exFW Trib 25 bald hill RS: 2800 Profile: 100-yr.

E.G. Elev (ft)	595.53	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.52	W/n-Val	0.100	0.040	0.100
W.S. Elev (ft)	595.01	Reach Len. (ft)	200.00	250.00	250.00
Chl W.S. (ft)	595.01	Flow Area (sq ft)	100.93	39.14	0.40
E.G. Slope (ft/ft)	0.013774	Area (sq ft)	100.93	39.14	0.40
Q Total (cfs)	440.00	Flow (cfs)	160.14	279.59	0.27
Top Width (ft)	134.59	Top Width (ft)	116.02	17.00	1.56
Vel Total (ft/s)	3.13	Avg. Vel. (ft/s)	1.59	7.14	0.68
Max Chl Dpth (ft)	3.81	Hydr. Depth (ft)	0.87	2.30	0.25
Conv. Total (cfs)	3749.1	Conv. (cfs)	1364.5	2382.3	2.3
Length Wid. (ft)	240.90	Wetted Per. (ft)	116.29	18.66	1.64
Min Ch El (ft)	591.20	Shear (lb/sq ft)	0.75	1.80	0.21
Alpha	3.40	Stream Power (lb/ft s)	1.18	12.89	0.14
Frctn Loss (ft)	3.93	Cum Volume (acre-ft)	0.24	0.69	0.02
C & E Loss (ft)	0.05	Cum SA (acres)	0.29	0.31	0.03

Plan: exFW Trib 25 bald hill RS: 2800 Profile: Floodway 1

E.G. Elev (ft)	596.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.01	W/n-Val	0.100	0.040	
W.S. Elev (ft)	595.60	Reach Len. (ft)	200.00	250.00	250.00
Chl W.S. (ft)	595.60	Flow Area (sq ft)	19.47	49.19	
E.G. Slope (ft/ft)	0.014966	Area (sq ft)	19.47	49.19	
Q Total (cfs)	440.00	Flow (cfs)	29.36	410.64	
Top Width (ft)	41.79	Top Width (ft)	24.79	17.00	
Vel Total (ft/s)	6.41	Avg. Vel. (ft/s)	1.51	8.35	
Max Chl Dpth (ft)	4.40	Hydr. Depth (ft)	0.79	2.89	
Conv. Total (cfs)	3596.7	Conv. (cfs)	240.0	3356.6	
Length Wid. (ft)	248.33	Wetted Per. (ft)	25.77	19.76	
Min Ch El (ft)	591.20	Shear (lb/sq ft)	0.71	2.33	
Alpha	1.59	Stream Power (lb/ft s)	1.06	19.42	
Frctn Loss (ft)	4.27	Cum Volume (acre-ft)	0.04	0.74	
C & E Loss (ft)	0.00	Cum SA (acres)	0.06	0.31	

Plan: exFW Trib 25 bald hill RS: 3135 Profile: 100-yr.

E.G. Elev (ft)	599.28	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.63	WLn-Val	0.100	0.040	0.100
W.S. Elev (ft)	598.65	Reach Len. (ft)	50.00	50.00	50.00
Chl W.S. (ft)		Flow Area (sq ft)	4.61	67.77	2.14
E.G. Slope (ft/ft)	0.006723	Area (sq ft)	4.61	67.77	2.14
Q Total (cfs)	440.00	Flow (cfs)	3.68	434.52	1.90
Top Width (ft)	33.14	Top Width (ft)	8.97	21.00	3.17
Vel Total (ft/s)	5.90	Avg Vel (ft/s)	0.78	6.41	0.89
Max Chl Dpth (ft)	4.15	Hydr Depth (ft)	0.51	3.23	0.67
Conv. Total (cfs)	5366.3	Conv. (cfs)	43.7	5299.6	23.1
Length Wtd (ft)	50.00	Wetted Per. (ft)	9.07	22.19	3.45
Min Ch El (ft)	594.50	Shear (lb/sq ft)	0.21	1.28	0.26
Alpha	1.16	Stream Power (lb/ft s)	0.17	8.22	0.23
Frcn Loss (ft)	0.47	Cum Volume (acre-ft)	0.42	1.12	0.02
C & E Loss (ft)	0.04	Cum SA (acres)	0.51	0.47	0.05

Plan: exFW Trib 25 bald hill RS: 3135 Profile: Floodway 1

E.G. Elev (ft)	599.34	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.63	WLn-Val		0.040	
W.S. Elev (ft)	598.72	Reach Len. (ft)	50.00	50.00	50.00
Chl W.S. (ft)		Flow Area (sq ft)		69.18	
E.G. Slope (ft/ft)	0.007472	Area (sq ft)		69.18	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	21.00	Top Width (ft)		21.00	
Vel Total (ft/s)	6.36	Avg Vel (ft/s)		6.36	
Max Chl Dpth (ft)	4.22	Hydr Depth (ft)		3.29	
Conv. Total (cfs)	5090.3	Conv. (cfs)		5090.3	
Length Wtd (ft)	50.00	Wetted Per. (ft)		24.82	
Min Ch El (ft)	594.50	Shear (lb/sq ft)		1.90	
Alpha	1.00	Stream Power (lb/ft s)		8.27	
Frcn Loss (ft)	0.46	Cum Volume (acre-ft)	0.08	1.26	
C & E Loss (ft)	0.03	Cum SA (acres)	0.10	0.47	

Plan: exFW Trib 25 bald hill RS: 3085 Profile: 100-yr.

E.G. Elev (ft)	598.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.07	WLn-Val	0.100	0.040	0.100
W.S. Elev (ft)	597.70	Reach Len. (ft)	95.00	95.00	95.00
Chl W.S. (ft)	597.45	Flow Area (sq ft)	0.15	52.96	0.97
E.G. Slope (ft/ft)	0.014434	Area (sq ft)	0.15	52.96	0.97
Q Total (cfs)	440.00	Flow (cfs)	0.06	439.11	0.84
Top Width (ft)	23.34	Top Width (ft)	1.56	19.00	2.78
Vel Total (ft/s)	8.14	Avg Vel (ft/s)	0.38	8.29	0.86
Max Chl Dpth (ft)	3.70	Hydr Depth (ft)	0.10	2.79	0.35
Conv. Total (cfs)	3662.4	Conv. (cfs)	0.5	3654.9	7.0
Length Wtd (ft)	95.00	Wetted Per. (ft)	1.57	20.92	2.87
Min Ch El (ft)	594.00	Shear (lb/sq ft)	0.09	2.28	0.30
Alpha	1.04	Stream Power (lb/ft s)	0.03	18.92	0.26
Frcn Loss (ft)	1.07	Cum Volume (acre-ft)	0.42	1.06	0.02
C & E Loss (ft)	0.12	Cum SA (acres)	0.51	0.45	0.04

Plan: exFW Trib 25 bald hill RS: 3085 Profile: Floodway 1

E.G. Elev (ft)	598.66	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.89	WLn-Val		0.040	
W.S. Elev (ft)	597.97	Reach Len. (ft)	95.00	95.00	95.00
Chl W.S. (ft)		Flow Area (sq ft)		58.12	
E.G. Slope (ft/ft)	0.011613	Area (sq ft)		58.12	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	19.00	Top Width (ft)		19.00	
Vel Total (ft/s)	7.57	Avg Vel (ft/s)		7.57	
Max Chl Dpth (ft)	3.97	Hydr Depth (ft)		3.08	
Conv. Total (cfs)	4082.9	Conv. (cfs)		4082.9	
Length Wtd (ft)	95.00	Wetted Per. (ft)		22.35	
Min Ch El (ft)	594.00	Shear (lb/sq ft)		1.89	
Alpha	1.00	Stream Power (lb/ft s)		14.27	
Frcn Loss (ft)	0.64	Cum Volume (acre-ft)	0.08	1.19	
C & E Loss (ft)	0.14	Cum SA (acres)	0.10	0.45	

Plan: exFW Trib 25 bald hill RS: 3300 Profile: 100-yr.

E.G. Elev (ft)	599.96	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.39	Wt n-Val	0.100	0.040	0.100
W.S. Elev (ft)	599.56	Reach Len. (ft)	100.00	100.00	100.00
Crit W.S. (ft)		Flow Area (sq ft)	2.54	86.34	5.19
E.G. Slope (ft/ft)	0.004021	Area (sq ft)	2.54	86.34	5.19
Q Total (cfs)	440.00	Flow (cfs)	1.34	436.01	2.65
Top Width (ft)	44.85	Top Width (ft)	5.94	26.00	13.01
Vel Total (ft/s)	4.68	Avg Vel. (ft/s)	0.63	5.05	0.51
Max Ch Dpth (ft)	4.56	Hydr Depth (ft)	0.43	3.32	0.40
Conv. Total (cfs)	6989.2	Conv. (cfs)	21.2	6876.3	41.7
Length Wid. (ft)	100.00	Wetted Per. (ft)	6.00	27.50	13.03
Min Ch El (ft)	595.00	Shear (lb/sq ft)	0.11	0.79	0.10
Alpha	1.16	Stream Power (lb/ft s)	0.06	3.98	0.05
Froth Loss (ft)	0.34	Cum Volume (acre-ft)	0.43	1.46	0.03
C & E Loss (ft)	0.02	Cum SA (acres)	0.55	0.56	0.08

Plan: exFW Trib 25 bald hill RS: 3300 Profile: Floodway 1

E.G. Elev (ft)	600.04	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.38	Wt n-Val		0.040	
W.S. Elev (ft)	599.66	Reach Len. (ft)	100.00	100.00	100.00
Crit W.S. (ft)		Flow Area (sq ft)		88.75	
E.G. Slope (ft/ft)	0.004067	Area (sq ft)		88.75	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	26.00	Top Width (ft)		26.00	
Vel Total (ft/s)	4.96	Avg Vel. (ft/s)		4.96	
Max Ch Dpth (ft)	4.66	Hydr Depth (ft)		3.41	
Conv. Total (cfs)	6899.2	Conv. (cfs)		6899.2	
Length Wid. (ft)	100.00	Wetted Per. (ft)		29.31	
Min Ch El (ft)	595.00	Shear (lb/sq ft)		0.77	
Alpha	1.00	Stream Power (lb/ft s)		3.81	
Froth Loss (ft)	0.35	Cum Volume (acre-ft)	0.08	1.61	
C & E Loss (ft)	0.02	Cum SA (acres)	0.10	0.56	

Plan: exFW Trib 25 bald hill RS: 3200 Profile: 100-yr.

E.G. Elev (ft)	599.69	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.31	Wt n-Val	0.100	0.040	0.100
W.S. Elev (ft)	599.28	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)	4.73	96.73	3.49
E.G. Slope (ft/ft)	0.002984	Area (sq ft)	4.73	96.73	3.49
Q Total (cfs)	440.00	Flow (cfs)	2.02	436.42	1.56
Top Width (ft)	47.78	Top Width (ft)	12.30	27.00	8.48
Vel Total (ft/s)	4.19	Avg Vel. (ft/s)	0.43	4.51	0.45
Max Ch Dpth (ft)	4.58	Hydr Depth (ft)	0.38	3.58	0.41
Conv. Total (cfs)	8081.9	Conv. (cfs)	37.1	8016.1	28.6
Length Wid. (ft)	65.00	Wetted Per. (ft)	12.32	29.03	8.51
Min Ch El (ft)	594.70	Shear (lb/sq ft)	0.07	0.62	0.08
Alpha	1.15	Stream Power (lb/ft s)	0.03	2.78	0.03
Froth Loss (ft)	0.28	Cum Volume (acre-ft)	0.43	1.25	0.02
C & E Loss (ft)	0.03	Cum SA (acres)	0.63	0.50	0.05

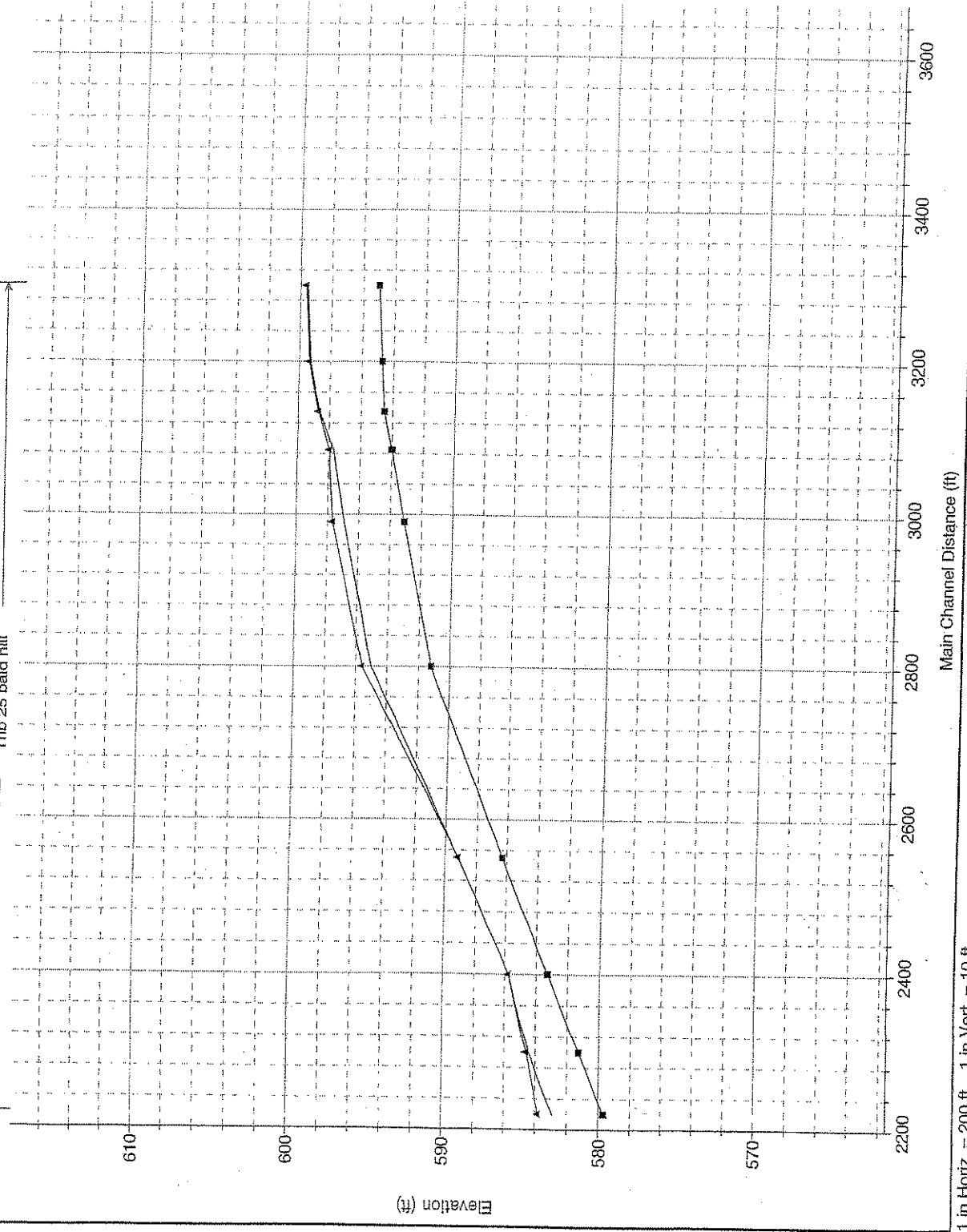
Plan: exFW Trib 25 bald hill RS: 3200 Profile: Floodway 1

E.G. Elev (ft)	599.67	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.31	Wt n-Val		0.040	
W.S. Elev (ft)	599.36	Reach Len. (ft)	65.00	65.00	65.00
Crit W.S. (ft)		Flow Area (sq ft)		99.06	
E.G. Slope (ft/ft)	0.002992	Area (sq ft)		99.06	
Q Total (cfs)	440.00	Flow (cfs)		440.00	
Top Width (ft)	27.00	Top Width (ft)		27.00	
Vel Total (ft/s)	4.44	Avg Vel. (ft/s)		4.44	
Max Ch Dpth (ft)	4.66	Hydr Depth (ft)		3.67	
Conv. Total (cfs)	8044.1	Conv. (cfs)		8044.1	
Length Wid. (ft)	65.00	Wetted Per. (ft)		30.65	
Min Ch El (ft)	594.70	Shear (lb/sq ft)		0.60	
Alpha	1.00	Stream Power (lb/ft s)		2.68	
Froth Loss (ft)	0.29	Cum Volume (acre-ft)	0.08	1.39	
C & E Loss (ft)	0.03	Cum SA (acres)	0.10	0.50	

Existing Conditions Floodplain Model

Trib 25 bald hill

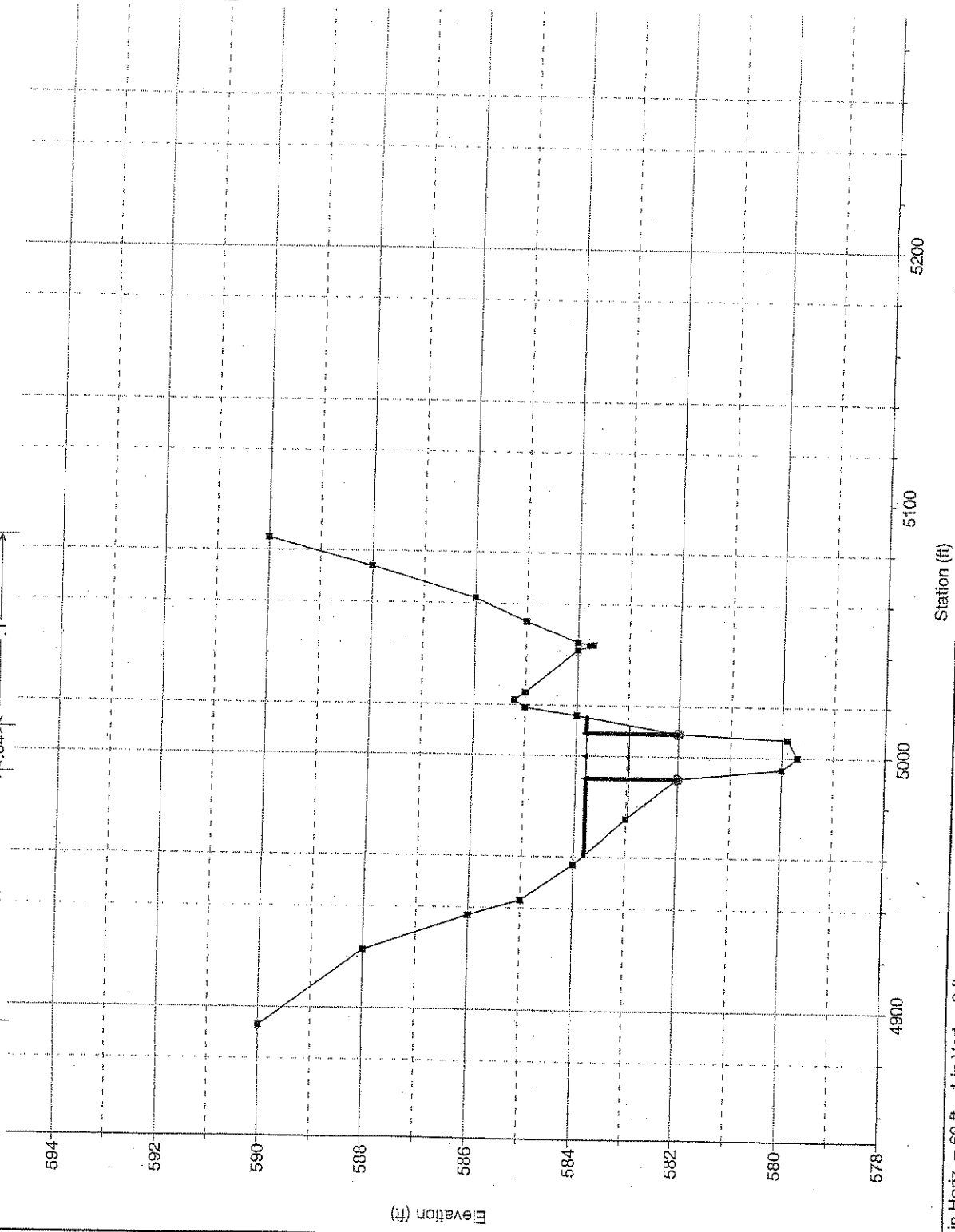
Legend	
—▲—	WS Floodway 1
—■—	WS 100-yr.
—	Ground



1 in Horiz. = 200 ft 1 in Vert. = 10 ft

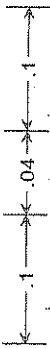
RS = 2220 Existing Conditions Floodway Model

Legend	
—	WS Floodway 1
—	WS 100-yr.
—	Ground
●	Bank Sta
—	Encroachment

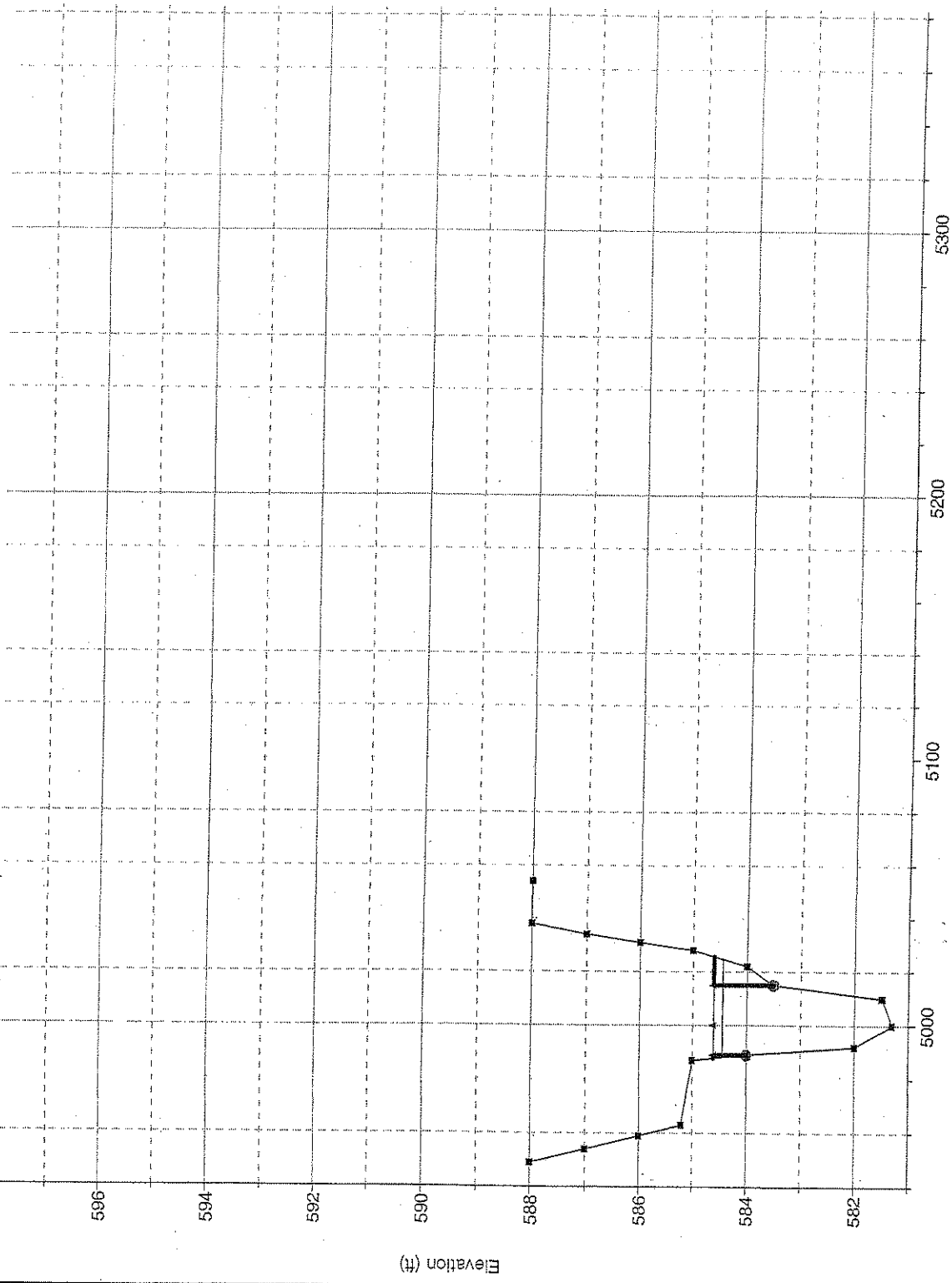


1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2300 Existing Conditions Floodway Model



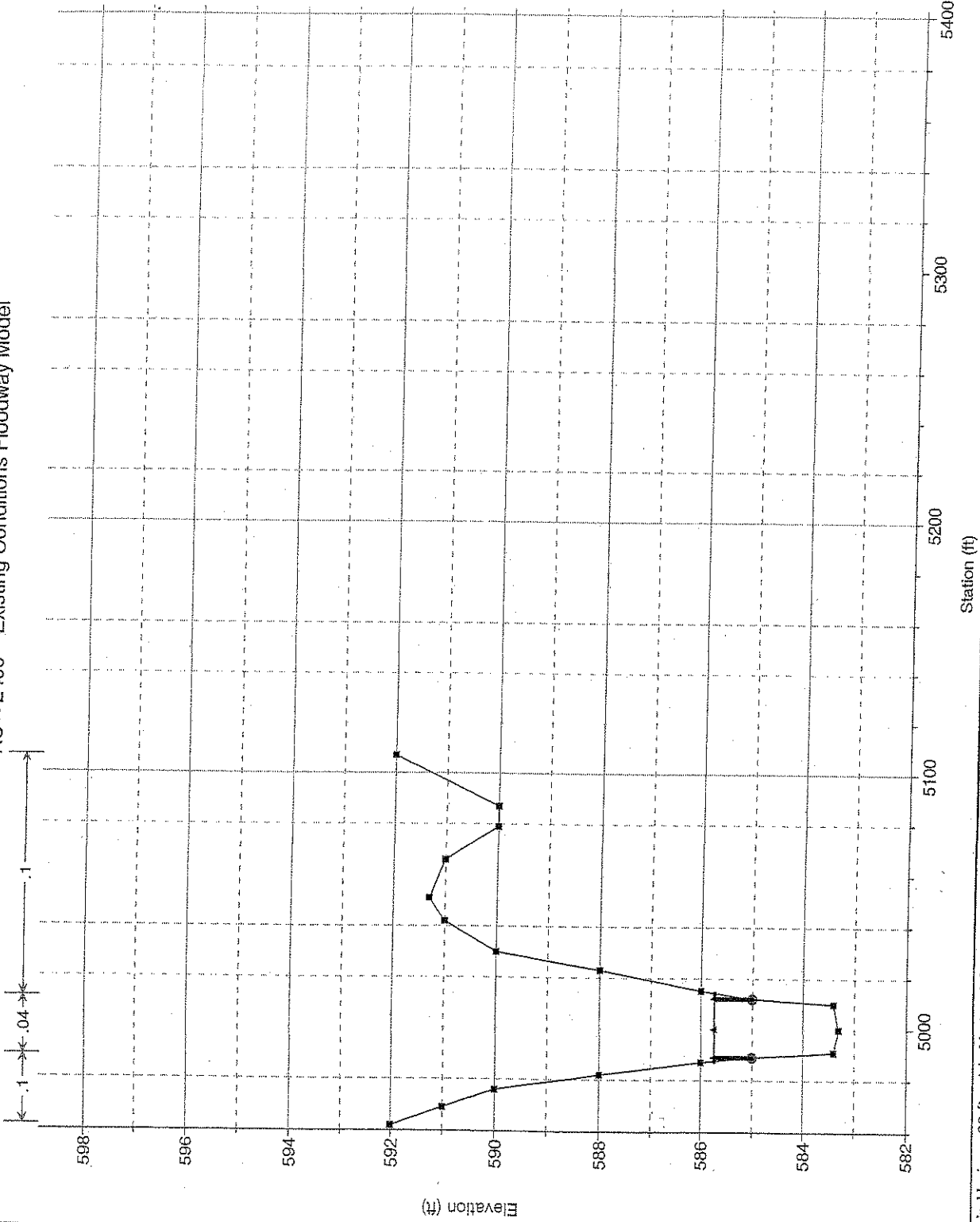
Legend	
—	WS Floodway 1
—	WS 100-yr.
●	Ground
○	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2400 Existing Conditions Floodway Model

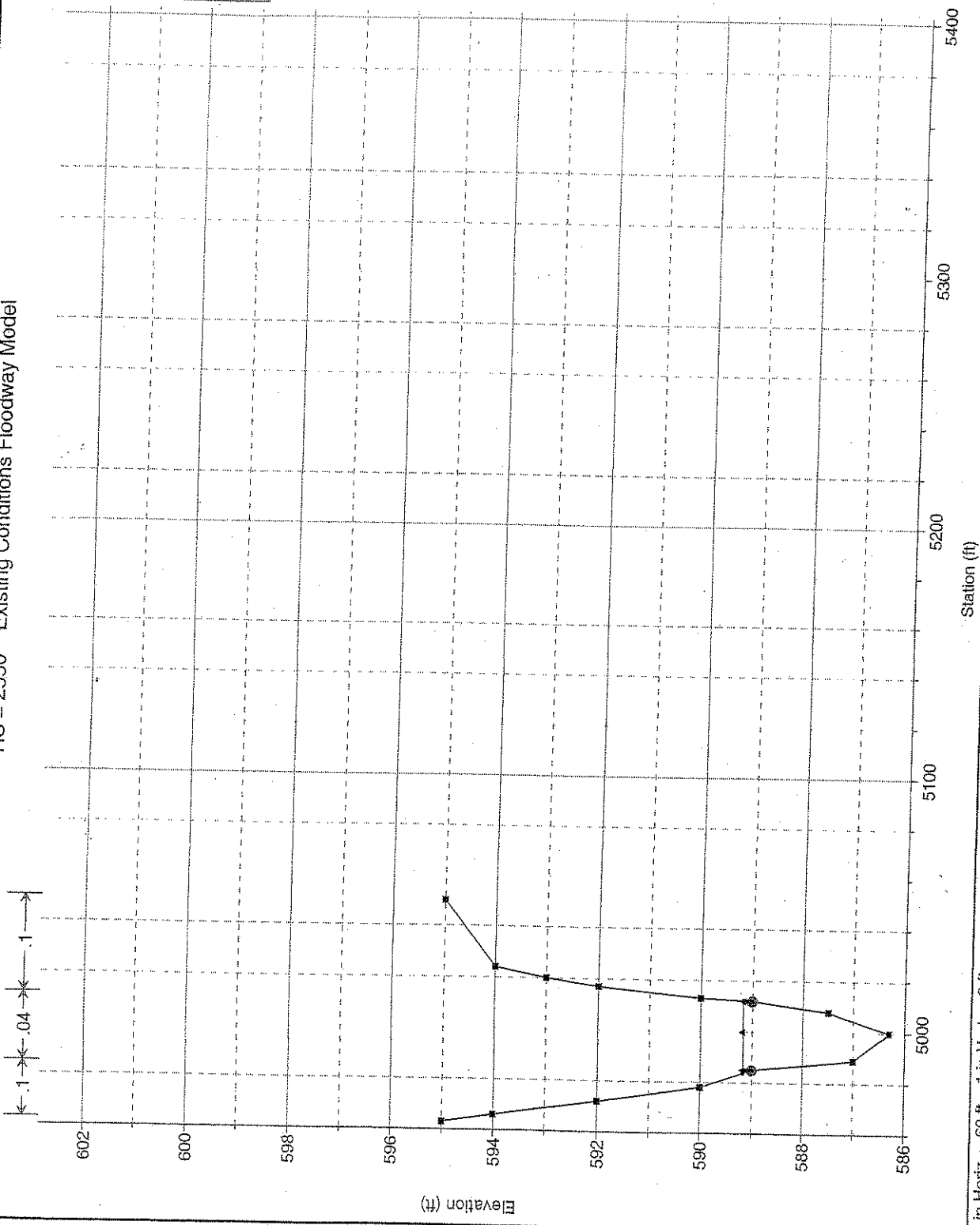
Legend	
WS 100-yr.	—
WS Floodway 1	—
Ground	●
Bank Sta	○
Encroachment	—



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2550 Existing Conditions Floodway Model

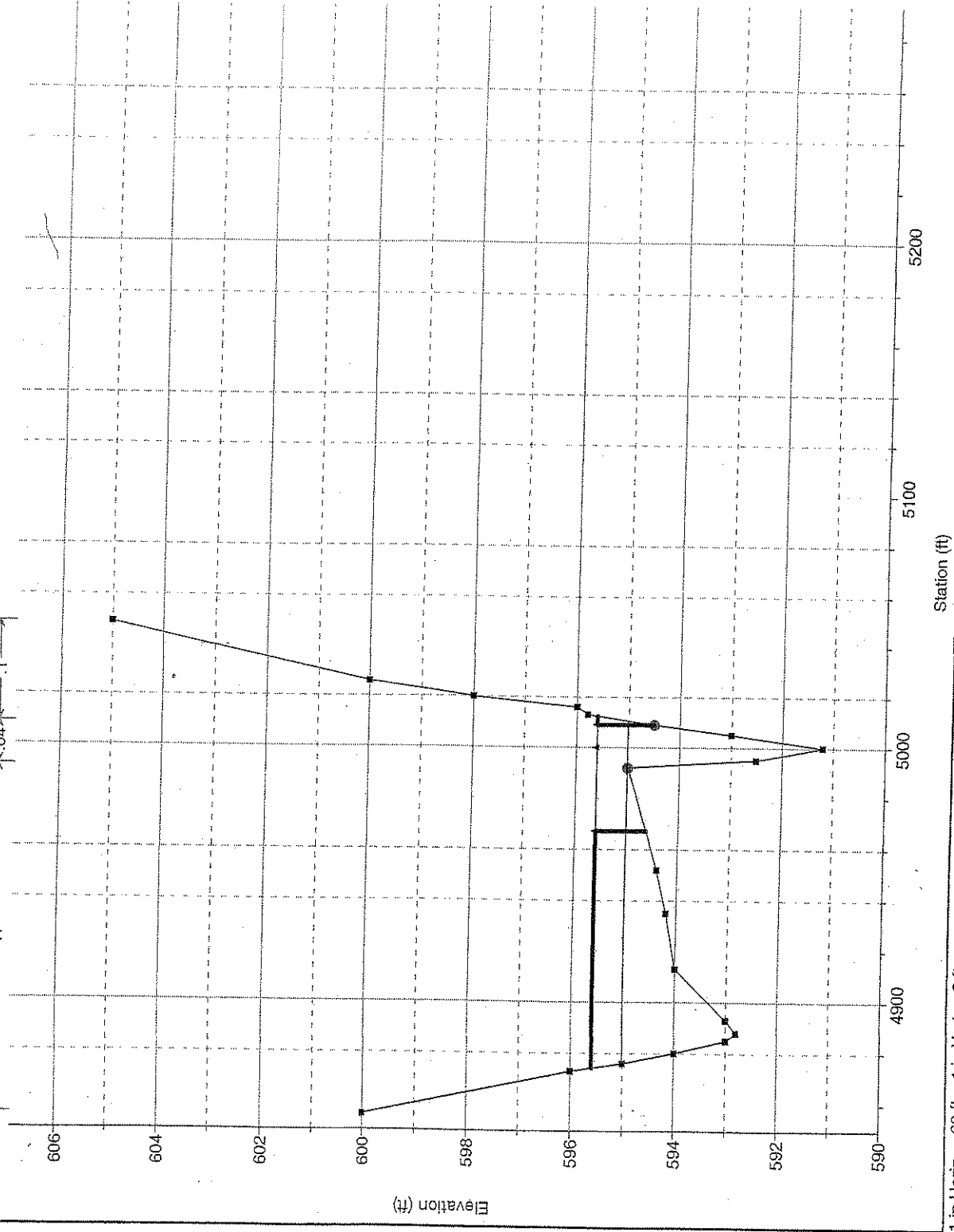
Legend	
WS 100-yr.	▲
WS Floodway 1	■
Ground	●
Bank Sta	○
Encroachment	—



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2800 Existing Conditions Floodway Model

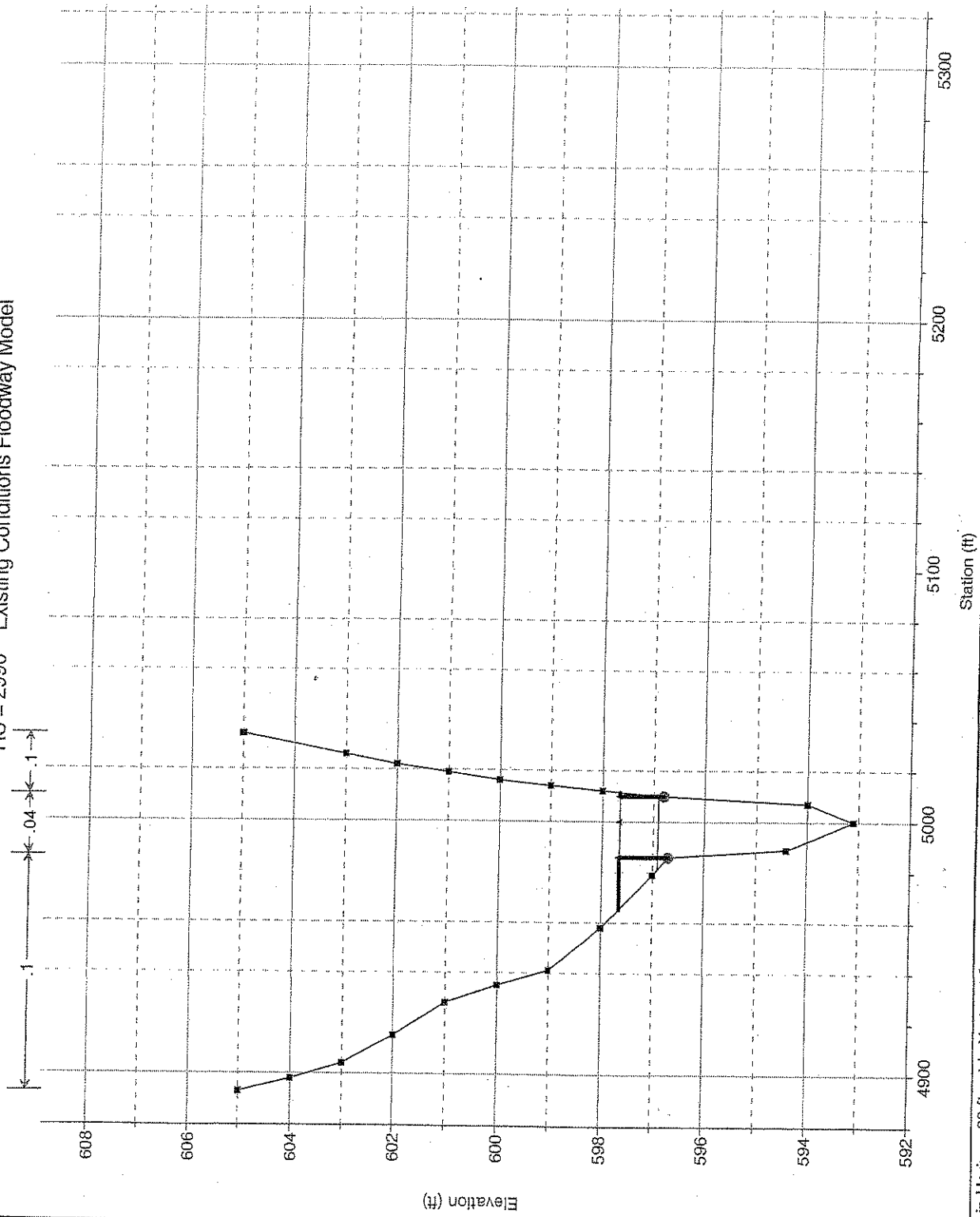
Legend	
—	WS Floodway 1
—	WS 100-yr.
—	Ground
●	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 2990 Existing Conditions Floodway Model

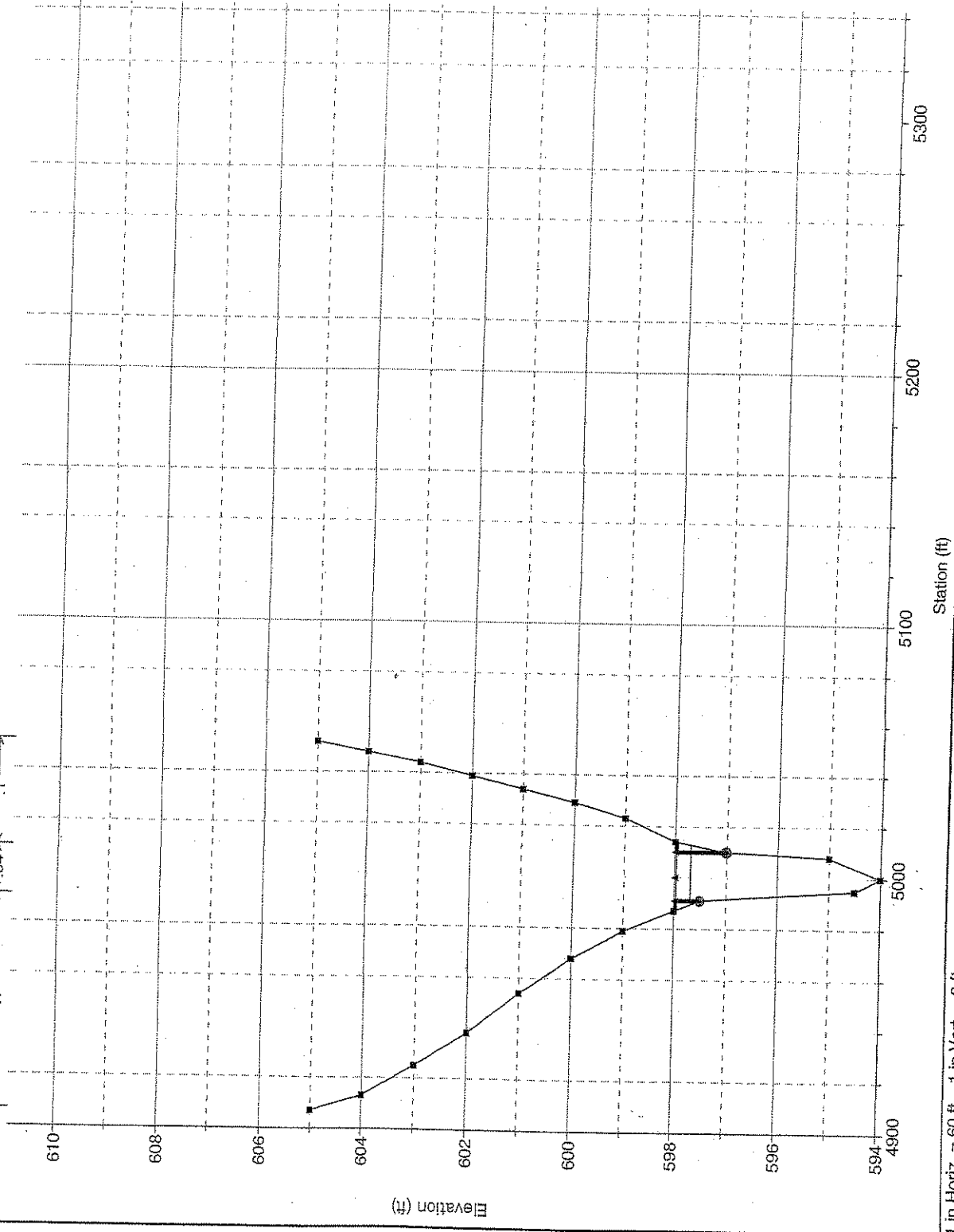
Legend	
—	WS Floodway 1
—	WS 100-yr.
●	Ground
●	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3085 Existing Conditions Floodway Model

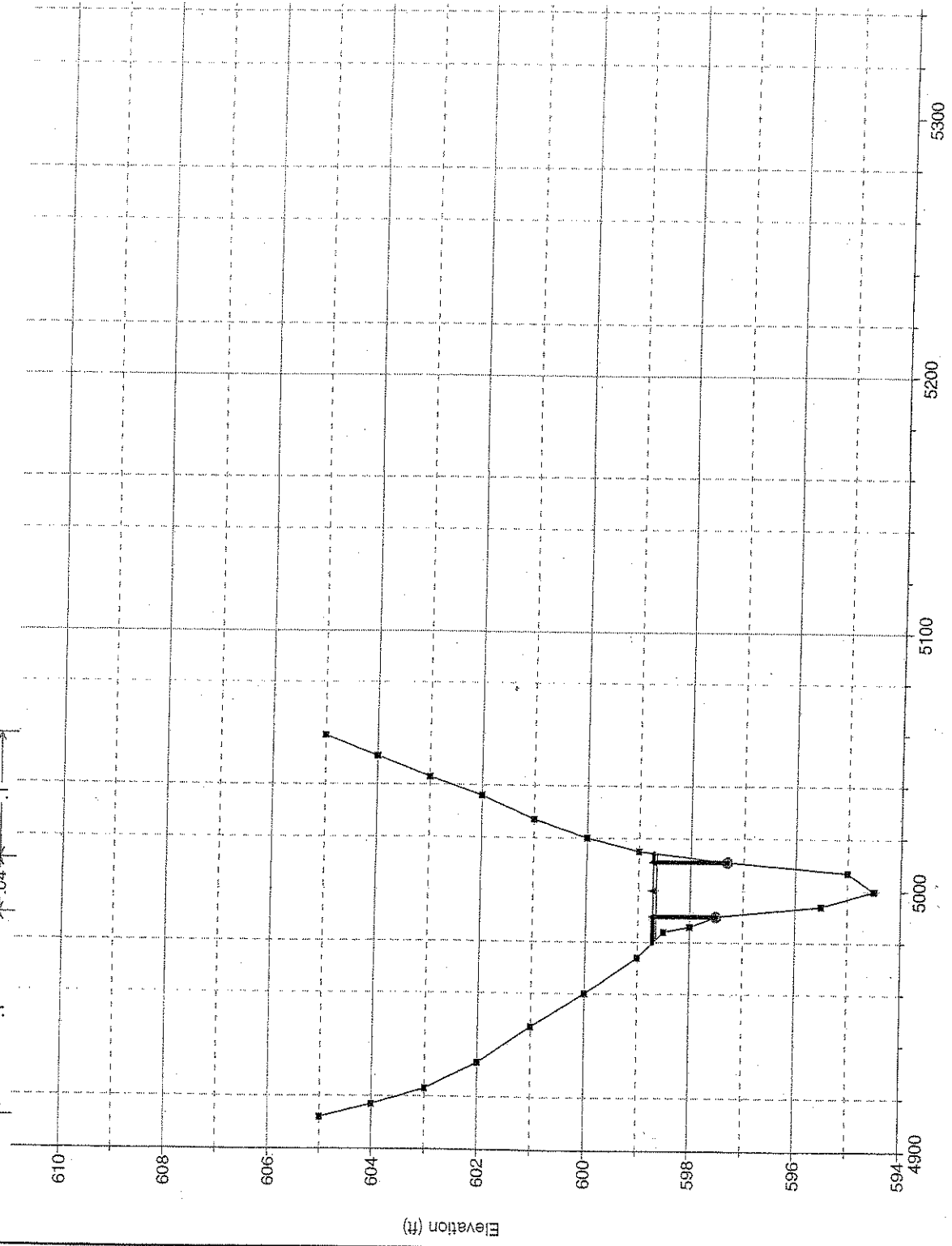
Legend	
—	WS Floodway 1
—	WS 100-yr.
●	Ground
●	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3135 Existing Conditions Floodway Model

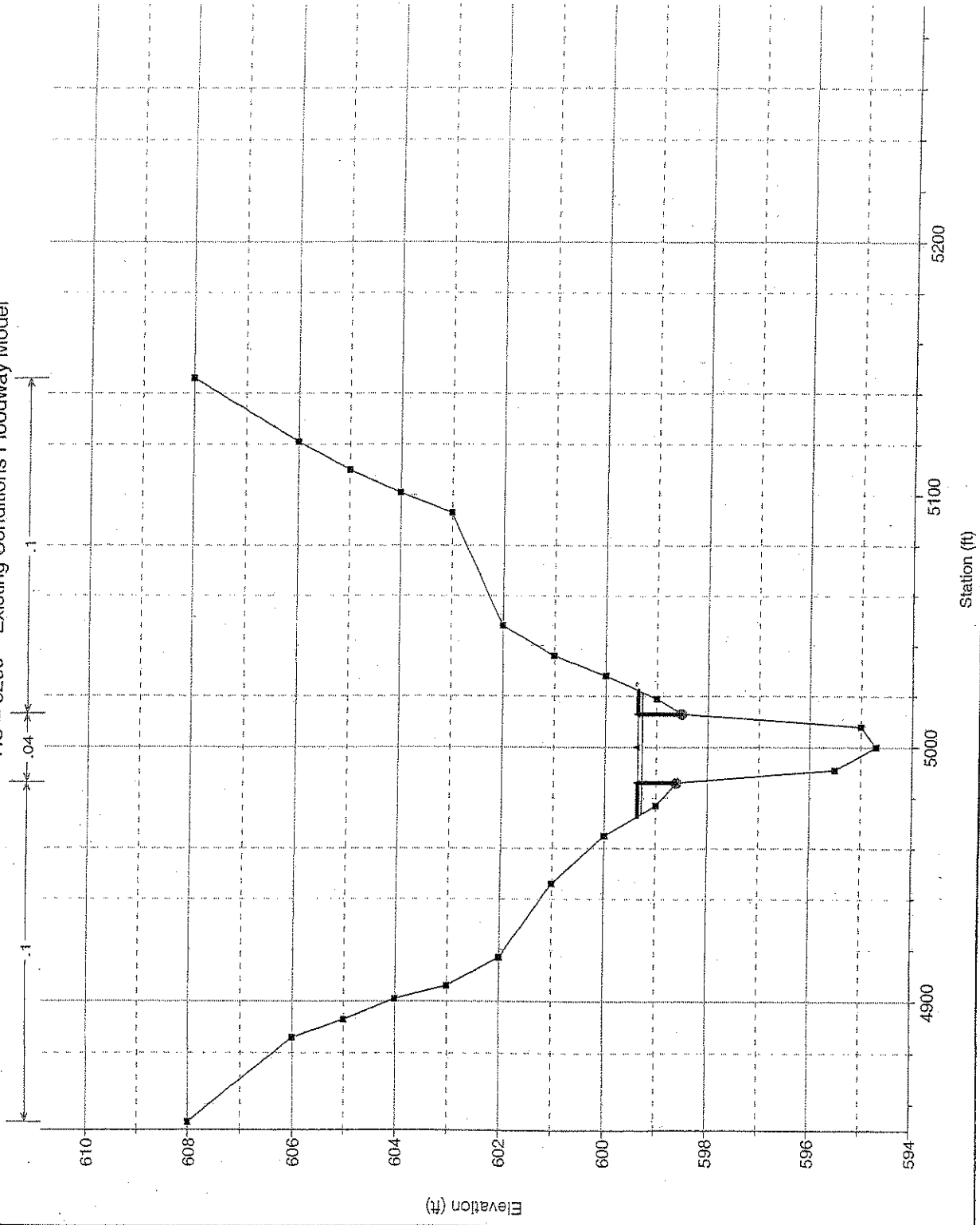
Legend	
—	WS Floodway 1
—	WS 100-yr.
●	Ground
○	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3200 Existing Conditions Floodway Model

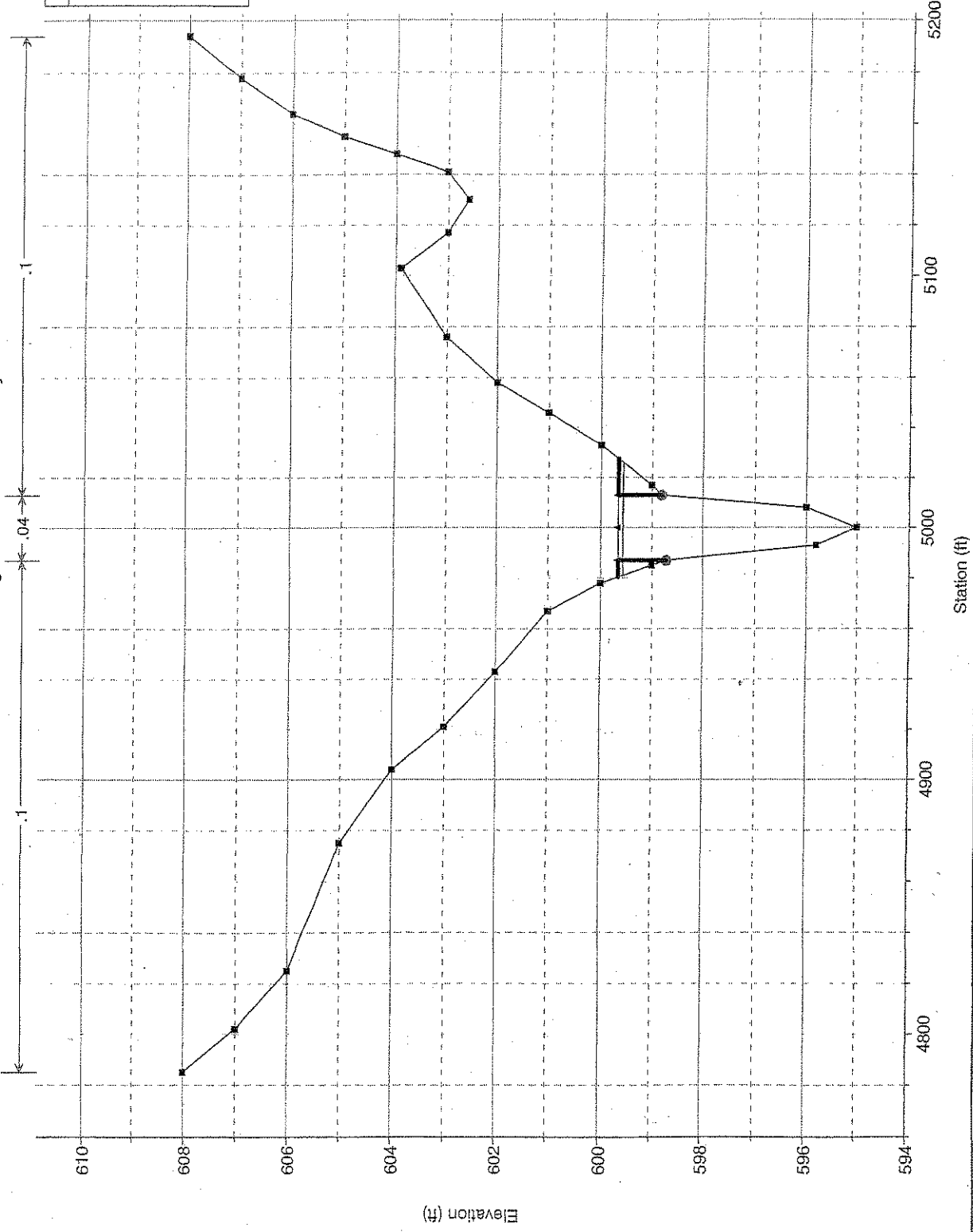
Legend	
—	WS Floodway 1
—	WS 100-yr.
⊕	Ground
⊕	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft

RS = 3300 Existing Conditions Floodway Model

Legend	
—▲—	WS Floodway 1
—●—	WS 100-yr.
—○—	Ground
●	Bank Sta
—	Encroachment



1 in Horiz. = 60 ft 1 in Vert. = 3 ft