

HEC-RAS Plan: As-Built River: Tijeras Arroyo Reach: 1

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)	
1	70	10-YR	6285.00	5503.70	5506.87	5506.87	5507.68	0.009997	8.17	1034.92	627.11	0.88
1	70	50-YR	14300.00	5503.70	5508.07	5508.07	5509.33	0.010483	10.70	1836.06	712.81	0.96
1	70	100-YR	18065.00	5503.70	5508.52	5508.52	5509.96	0.010469	11.52	2167.14	745.35	0.98
1	70	500-YR	30500.00	5503.70	5509.73	5509.73	5511.64	0.010329	13.50	3094.32	774.25	1.01
1	60	10-YR	6285.00	5486.70	5488.90	5488.90	5489.53	0.017064	7.00	1048.38	855.42	1.04
1	60	50-YR	14300.00	5486.70	5489.83	5489.83	5490.85	0.014377	9.00	1890.27	950.96	1.03
1	60	100-YR	18065.00	5486.70	5490.18	5490.18	5491.35	0.014036	9.74	2224.19	986.30	1.05
1	60	500-YR	30500.00	5486.70	5491.20	5491.20	5492.75	0.012267	11.29	3276.88	1049.57	1.03
1	54	10-YR	6285.00	5476.70	5479.91		5480.44	0.008627	6.85	1243.52	827.26	0.80
1	54	50-YR	14300.00	5476.70	5481.15		5481.86	0.007140	8.32	2403.55	995.59	0.78
1	54	100-YR	18065.00	5476.70	5481.67		5482.42	0.006325	8.58	2928.26	1014.90	0.75
1	54	500-YR	30500.00	5476.70	5483.21		5484.05	0.004745	9.21	4505.46	1038.59	0.69
1	52	10-YR	6285.00	5474.70	5477.64	5477.64	5478.49	0.014283	7.74	899.36	572.86	0.99
1	52	50-YR	14300.00	5474.70	5478.89	5478.89	5480.22	0.011814	9.89	1661.23	637.17	0.98
1	52	100-YR	18065.00	5474.70	5479.35	5479.35	5480.88	0.011489	10.68	1956.63	654.10	0.99
1	52	500-YR	30500.00	5474.70	5480.68	5480.68	5482.74	0.010448	12.56	2862.18	706.34	1.00
1	51	10-YR	6285.00	5472.30	5475.02	5475.02	5476.01	0.013934	8.26	815.52	428.33	1.00
1	51	50-YR	14300.00	5472.30	5476.48	5476.48	5478.09	0.011514	10.65	1493.76	538.32	0.99
1	51	100-YR	18065.00	5472.30	5477.14	5477.14	5478.86	0.009990	11.11	1859.11	560.38	0.95
1	51	500-YR	30500.00	5472.30	5478.60	5478.60	5480.94	0.009509	13.20	2691.69	581.25	0.97
1	50	10-YR	6285.00	5470.50	5473.43	5473.00	5474.09	0.008770	7.15	999.17	435.44	0.81
1	50	50-YR	14300.00	5470.50	5474.51	5474.43	5476.09	0.013163	11.22	1486.44	467.05	1.06
1	50	100-YR	18065.00	5470.50	5474.98	5474.98	5476.91	0.013699	12.44	1709.36	490.91	1.10
1	50	500-YR	30500.00	5470.50	5476.69	5476.69	5479.06	0.010753	14.00	2633.54	550.00	1.04
1	46	10-YR	6285.00	5464.70	5467.93	5467.93	5468.93	0.013962	8.54	822.77	419.66	1.01
1	46	50-YR	14300.00	5464.70	5469.82		5471.14	0.008426	10.00	1626.13	431.94	0.87
1	46	100-YR	18065.00	5464.70	5471.48		5472.48	0.004154	8.80	2350.02	442.71	0.65
1	46	500-YR	30500.00	5464.70	5475.76		5476.67	0.001897	8.61	4403.60	563.76	0.48
1	45	10-YR	6285.00	5459.31	5465.78		5466.48	0.001144	6.74	932.84	209.35	0.56
1	45	50-YR	14300.00	5459.31	5469.20		5470.35	0.000921	8.58	1667.63	219.57	0.55
1	45	100-YR	18065.00	5459.31	5470.56		5471.87	0.000873	9.18	1967.23	223.61	0.55

HEC-RAS Plan: As-Built River: Tijeras Arroyo Reach: 1 (Continued)

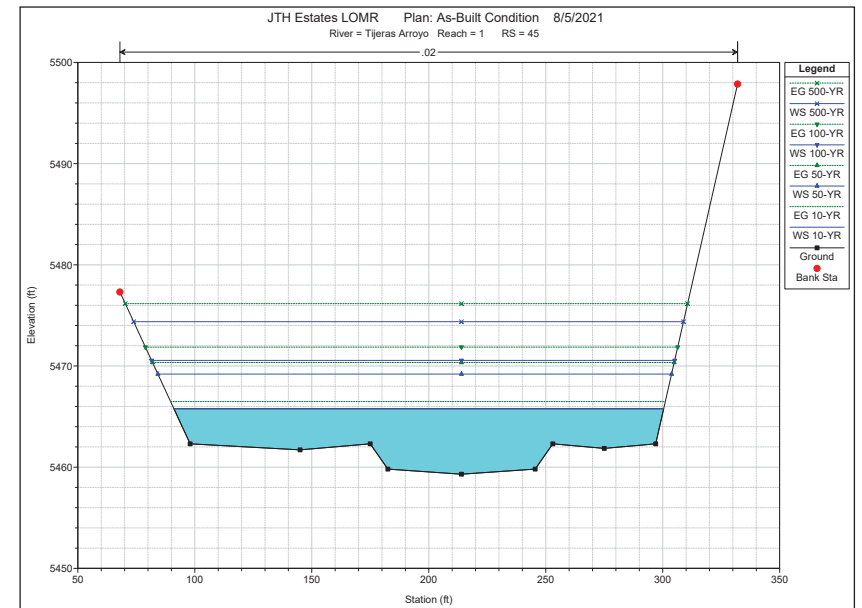
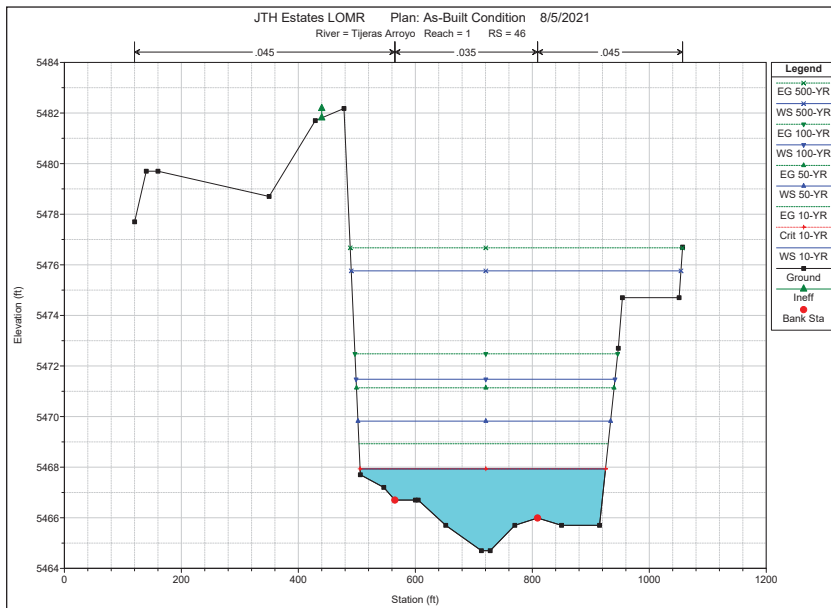
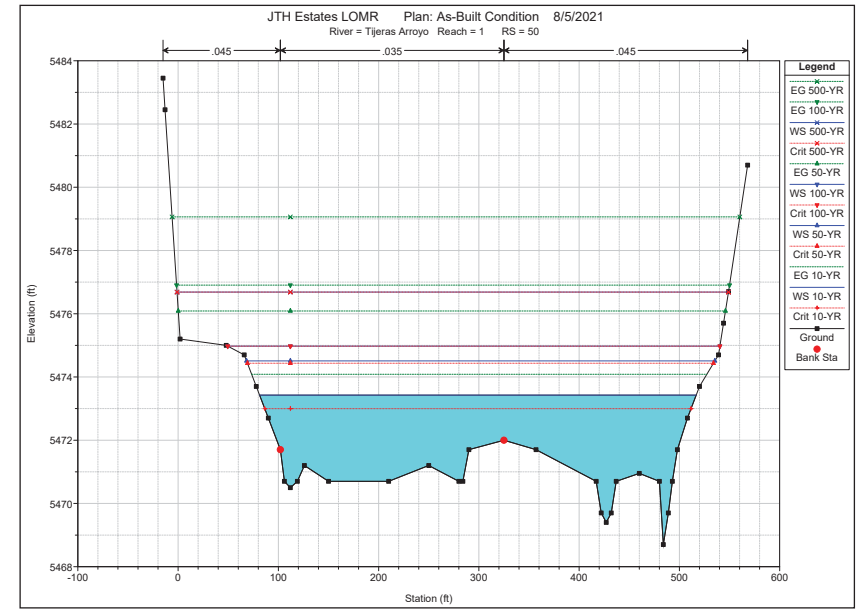
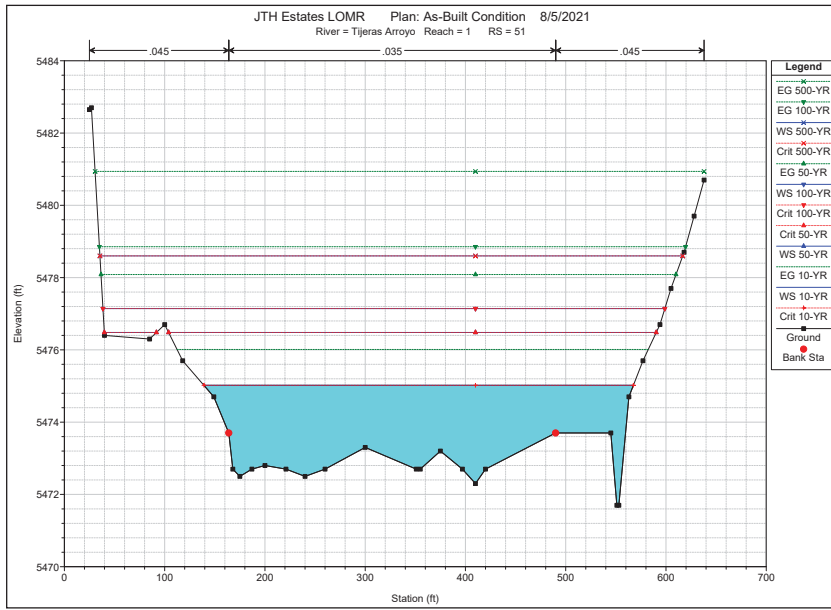
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	45	500-YR	30500.00	5459.31	5474.38		5476.17	0.000787	10.72	2844.41	235.02	0.54
1	44	10-YR	6285.00	5459.03	5465.75	5464.07	5466.42	0.001012	6.59	953.47	201.23	0.53
1	44	50-YR	14300.00	5459.03	5469.13	5466.38	5470.30	0.000905	8.68	1648.41	209.63	0.55
1	44	100-YR	18065.00	5459.03	5470.45	5467.30	5471.81	0.000882	9.38	1926.52	212.90	0.55
1	44	500-YR	30500.00	5459.03	5474.15	5469.95	5476.09	0.000840	11.16	2733.05	222.12	0.56
1	43.5	Bridge										
1	43	10-YR	6285.00	5458.43	5463.44	5463.44	5465.02	0.004150	10.08	623.72	202.03	1.01
1	43	50-YR	14300.00	5458.43	5465.73	5465.73	5468.39	0.003488	13.08	1093.53	208.89	1.01
1	43	100-YR	18065.00	5458.43	5466.66	5466.66	5469.71	0.003280	14.01	1289.64	211.68	1.00
1	43	500-YR	30500.00	5458.43	5469.26	5469.26	5473.48	0.002976	16.49	1849.74	219.47	1.00
1	42	10-YR	6285.00	5457.70	5463.17	5463.17	5464.71	0.004026	9.94	632.46	204.91	1.00
1	42	50-YR	14300.00	5457.70	5465.48	5465.48	5468.00	0.003406	12.74	1122.79	295.89	0.99
1	42	100-YR	18065.00	5457.70	5466.37	5466.37	5469.27	0.003217	13.68	1320.87	321.46	0.99
1	42	500-YR	30500.00	5457.70	5468.84	5468.84	5472.94	0.002927	16.25	1876.83	346.61	1.00
1	41	10-YR	6285.00	5452.70	5457.90	5457.83	5458.96	0.012580	8.27	759.90	330.38	0.96
1	41	50-YR	14300.00	5452.70	5459.54	5459.48	5461.39	0.010778	10.91	1321.74	365.78	0.97
1	41	100-YR	18065.00	5452.70	5460.17	5460.17	5462.33	0.010390	11.83	1554.60	373.62	0.98
1	41	500-YR	30500.00	5452.70	5461.99	5461.99	5464.99	0.009307	14.02	2243.44	380.79	0.98
1	40	10-YR	6285.00	5452.50	5455.80	5455.53	5456.74	0.009502	8.46	857.98	346.37	0.87
1	40	50-YR	14300.00	5452.50	5457.27	5457.27	5459.16	0.011445	12.19	1392.70	374.95	1.02
1	40	100-YR	18065.00	5452.50	5457.93	5457.93	5460.10	0.011092	13.17	1642.55	383.35	1.03
1	40	500-YR	30500.00	5452.50	5459.77	5459.77	5462.75	0.010440	15.71	2370.22	408.72	1.05
1	35	10-YR	6285.00	5445.97	5449.21	5449.21	5450.35	0.013655	8.54	738.47	338.32	1.00
1	35	50-YR	14300.00	5445.97	5451.01	5451.01	5452.65	0.009346	10.45	1493.63	524.86	0.91
1	35	100-YR	18065.00	5445.97	5451.70	5451.70	5453.45	0.008305	10.93	1873.28	577.04	0.88
1	35	500-YR	30500.00	5445.97	5453.23	5453.23	5455.53	0.007970	12.90	2771.76	596.85	0.91
1	30	10-YR	6285.00	5438.86	5443.54		5443.92	0.002677	4.97	1271.58	379.71	0.47
1	30	50-YR	14300.00	5438.86	5445.67		5446.36	0.002590	6.75	2256.71	518.34	0.51
1	30	100-YR	18065.00	5438.86	5446.45		5447.26	0.002571	7.35	2667.02	535.29	0.52
1	30	500-YR	30500.00	5438.86	5448.63		5449.75	0.002489	8.81	3902.46	597.23	0.53

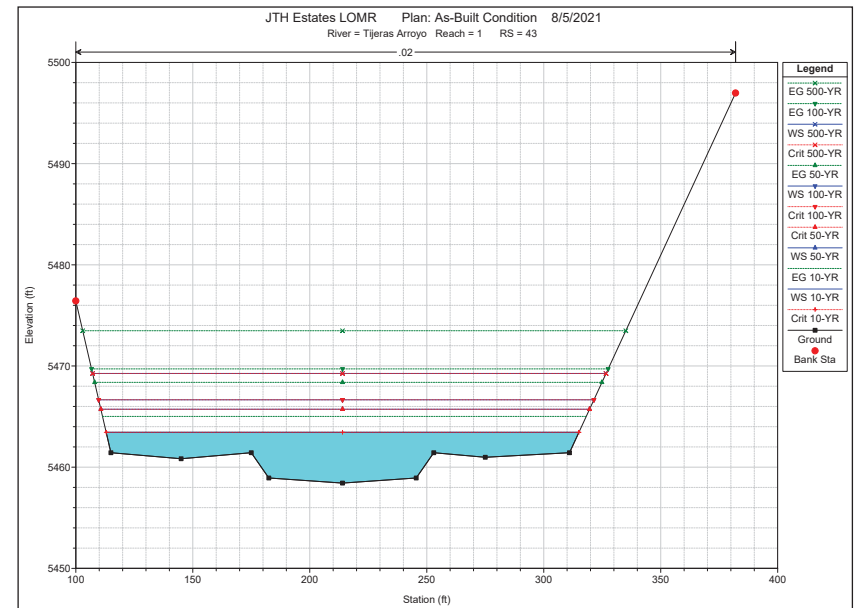
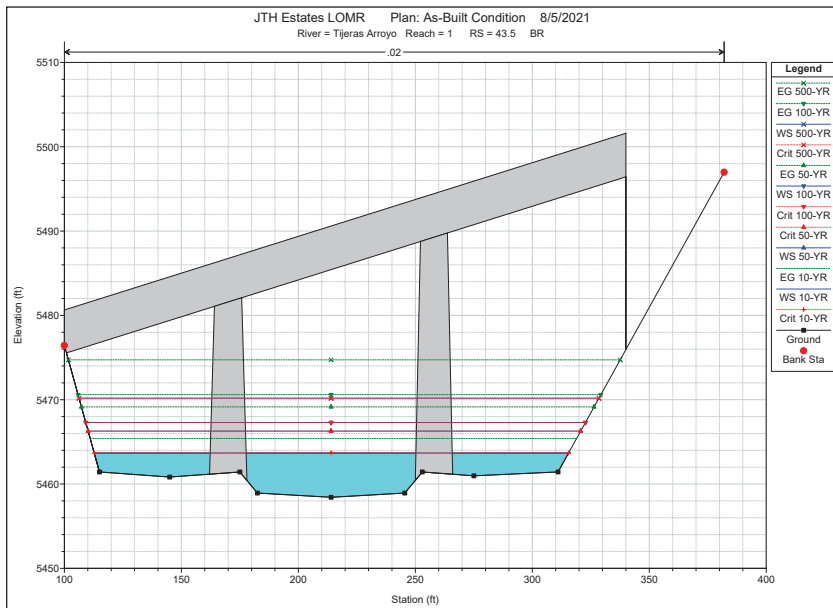
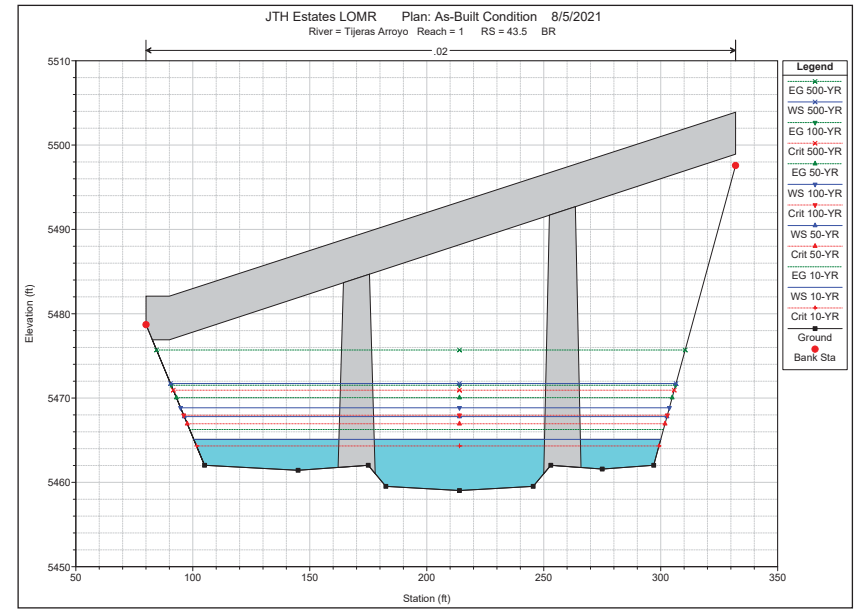
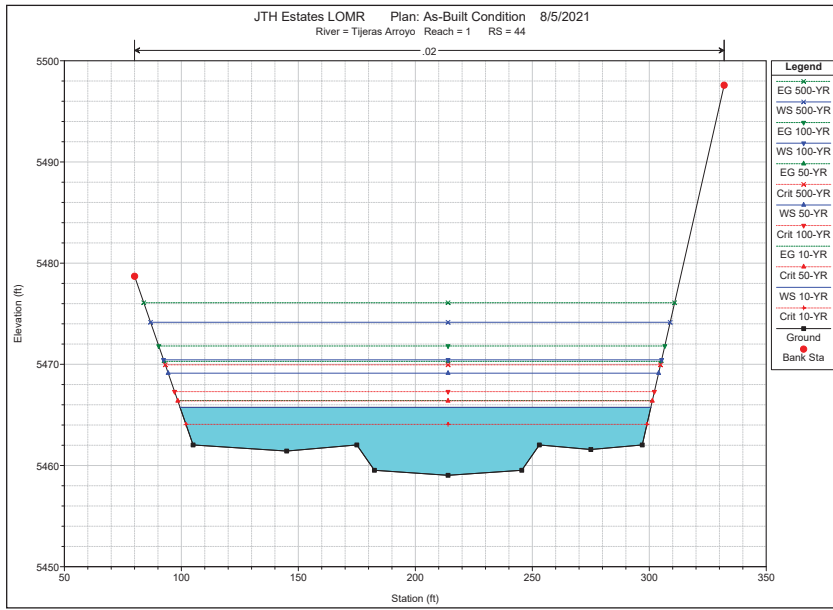
HEC-RAS Plan: As-Built River: Tijeras Arroyo Reach: 1 (Continued)

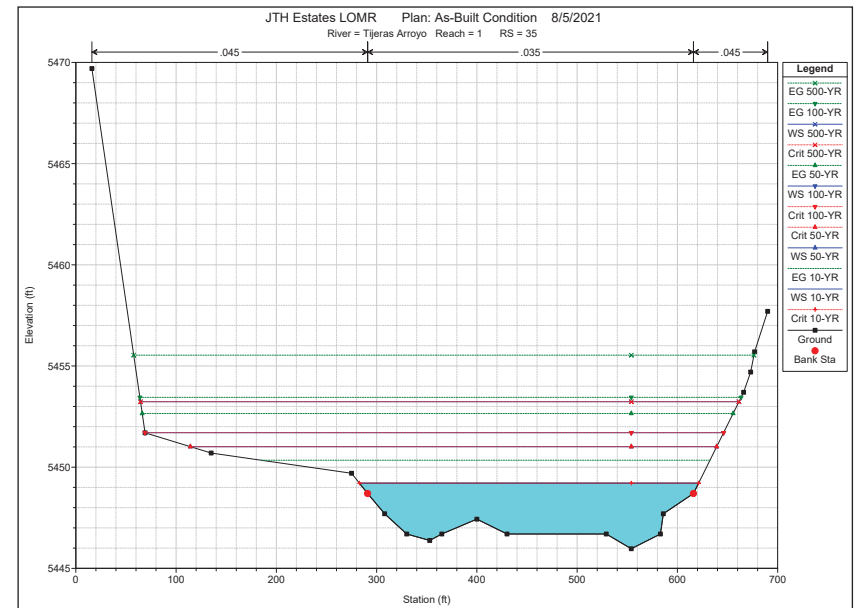
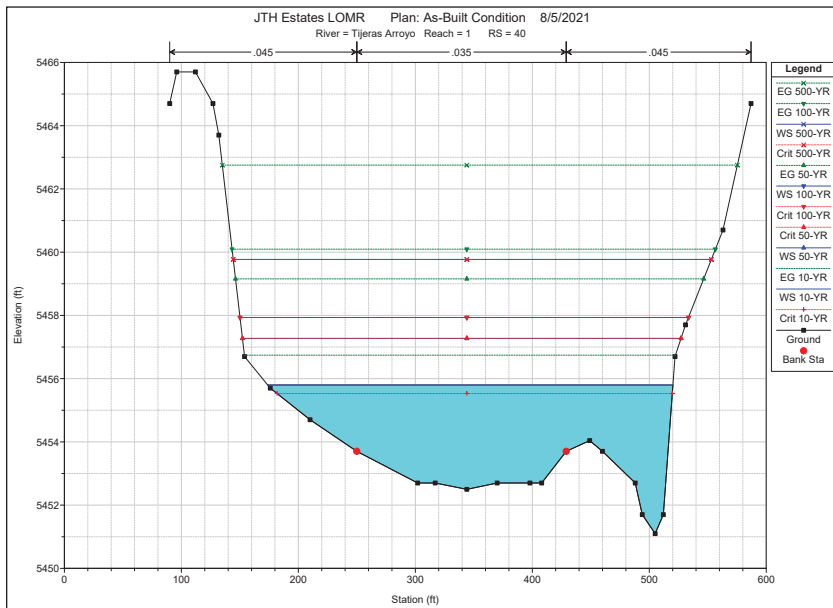
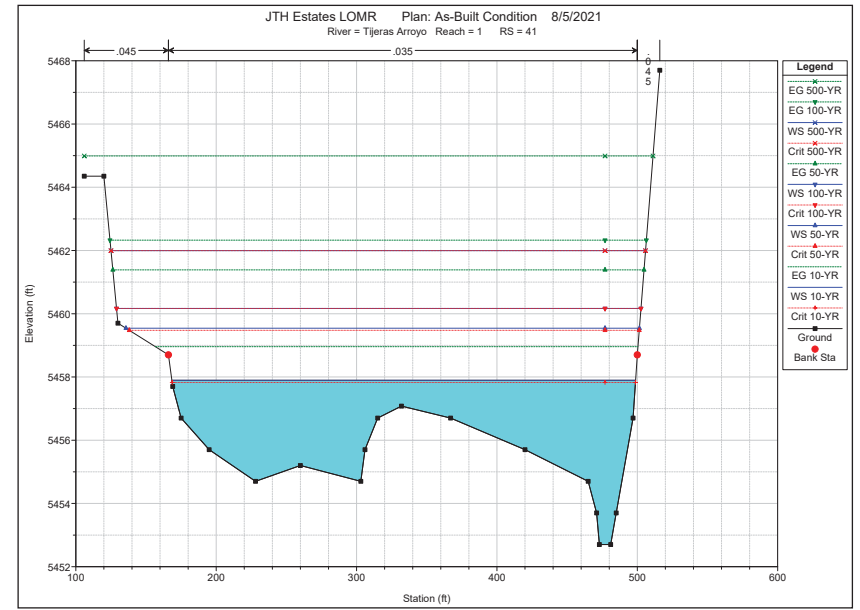
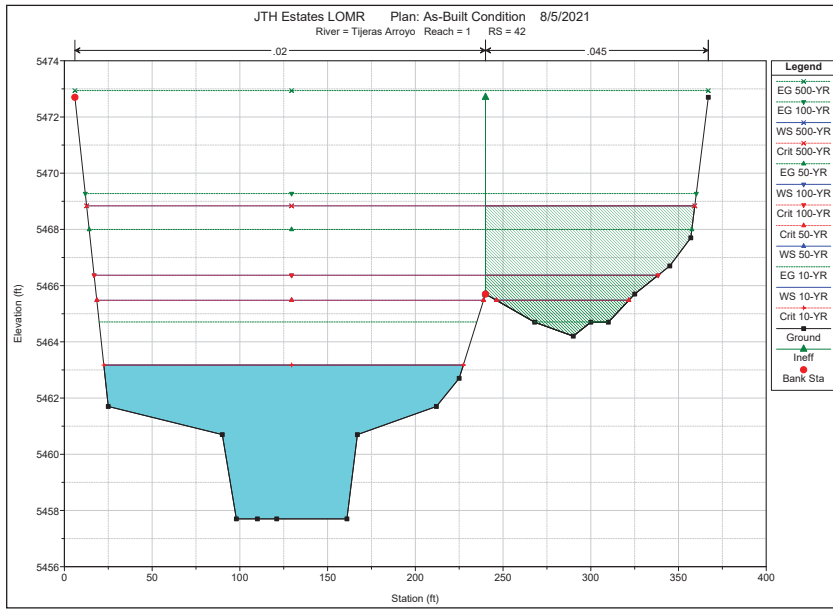
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	22	10-YR	6285.00	5431.77	5439.46	5439.46	5441.37	0.007757	11.34	641.98	227.05	0.86
1	22	50-YR	14300.00	5431.77	5442.40	5442.40	5444.24	0.005313	12.55	1717.90	449.89	0.77
1	22	100-YR	18065.00	5431.77	5443.12	5443.12	5445.12	0.005454	13.45	2048.62	461.47	0.79
1	22	500-YR	30500.00	5431.77	5444.86	5444.86	5447.52	0.006258	16.19	2861.54	475.69	0.87
1	20	10-YR	6285.00	5429.70	5436.35	5436.35	5438.63	0.009735	12.14	529.94	292.80	0.95
1	20	50-YR	14300.00	5429.70	5439.92	5439.92	5442.11	0.005521	13.05	1477.80	534.02	0.78
1	20	100-YR	18065.00	5429.70	5440.76	5440.76	5443.22	0.005725	14.13	1755.36	557.19	0.81
1	20	500-YR	30500.00	5429.70	5441.71	5441.71	5443.13	0.003918	12.46	3721.30	587.60	0.68
1	15	10-YR	6285.00	5425.40	5431.02		5432.27	0.006139	9.02	709.70	180.75	0.75
1	15	50-YR	14300.00	5425.40	5433.55	5433.55	5435.59	0.007200	11.79	1427.23	524.48	0.85
1	15	100-YR	18065.00	5425.40	5434.61	5434.61	5436.44	0.005720	11.60	2024.70	572.33	0.78
1	15	500-YR	30500.00	5425.40	5436.22	5436.22	5438.57	0.006329	13.81	2952.65	582.25	0.84
1	10	10-YR	6285.00	5423.70	5428.48	5428.48	5429.90	0.008225	9.81	736.69	322.76	0.85
1	10	50-YR	14300.00	5423.70	5430.68	5430.68	5432.06	0.005676	10.87	1978.19	664.82	0.76
1	10	100-YR	18065.00	5423.70	5431.18	5431.18	5432.73	0.006058	11.81	2310.64	668.70	0.80
1	10	500-YR	30500.00	5423.70	5432.51	5432.51	5434.59	0.006966	14.27	3202.77	677.24	0.88
1	8	10-YR	6285.00	5415.70	5420.31		5421.02	0.008981	7.57	953.41	377.85	0.82
1	8	50-YR	14300.00	5415.70	5421.86	5421.41	5423.22	0.010246	10.65	1592.35	450.40	0.94
1	8	100-YR	18065.00	5415.70	5422.47	5422.07	5424.06	0.010307	11.71	1886.17	523.42	0.97
1	8	500-YR	30500.00	5415.70	5424.25	5424.25	5426.31	0.009622	14.08	2990.17	671.52	0.99
1	6	10-YR	6285.00	5411.25	5416.18	5416.18	5417.44	0.011729	9.19	740.57	321.33	0.96
1	6	50-YR	14300.00	5411.25	5418.08	5418.08	5419.72	0.009739	10.87	1516.14	460.98	0.94
1	6	100-YR	18065.00	5411.25	5418.63	5418.63	5420.53	0.009734	11.80	1772.60	467.78	0.96
1	6	500-YR	30500.00	5411.25	5420.66	5420.66	5422.98	0.007772	13.37	2851.46	621.16	0.91
1	5	10-YR	6285.00	5406.41	5410.08		5410.72	0.007335	6.43	977.65	414.80	0.74
1	5	50-YR	14300.00	5406.41	5411.76		5412.88	0.006443	8.48	1689.22	430.50	0.75
1	5	100-YR	18065.00	5406.41	5412.49		5413.76	0.005908	9.03	2007.67	437.34	0.74
1	5	500-YR	30500.00	5406.41	5414.81		5416.37	0.004738	10.01	3064.92	485.37	0.70
1	4	10-YR	6285.00	5399.70	5403.43	5403.43	5404.80	0.013040	9.40	668.48	246.62	1.01
1	4	50-YR	14300.00	5399.70	5405.44	5405.44	5407.77	0.010738	12.25	1170.40	253.60	1.00

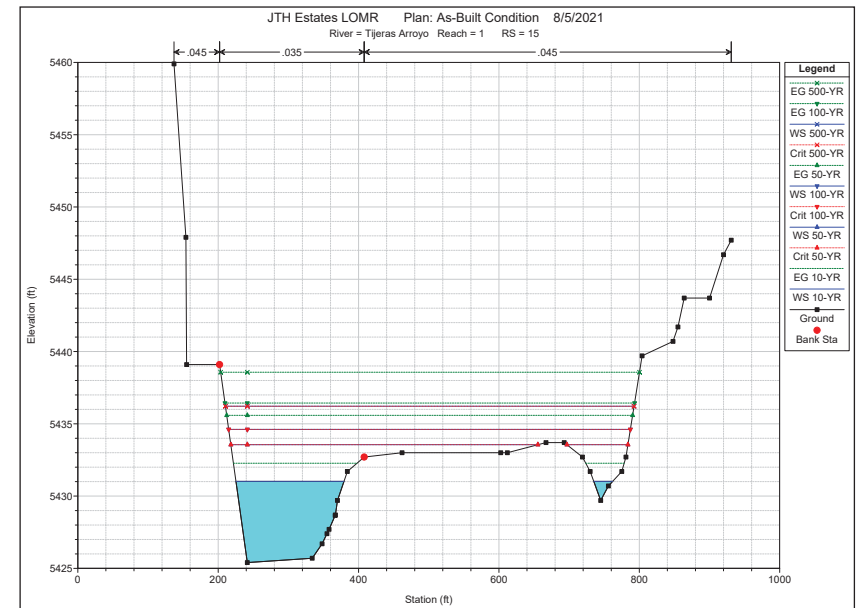
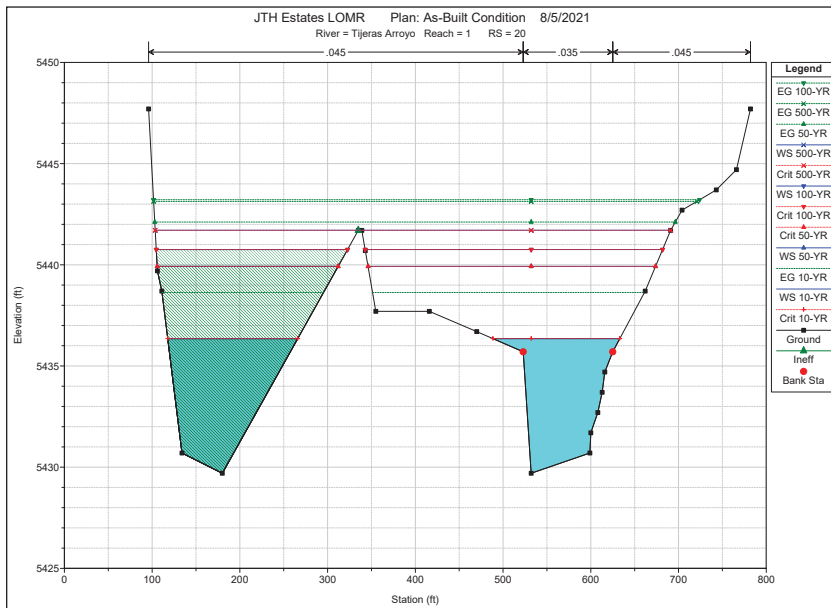
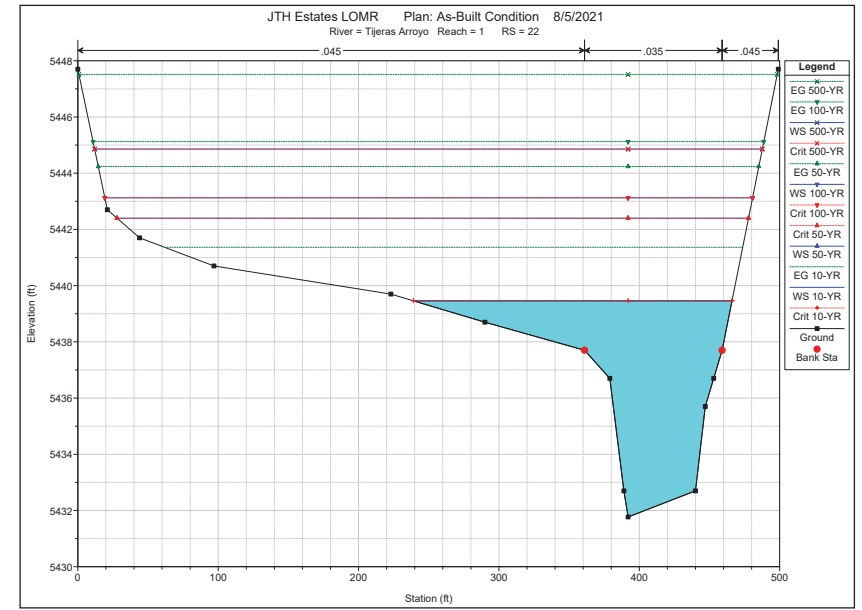
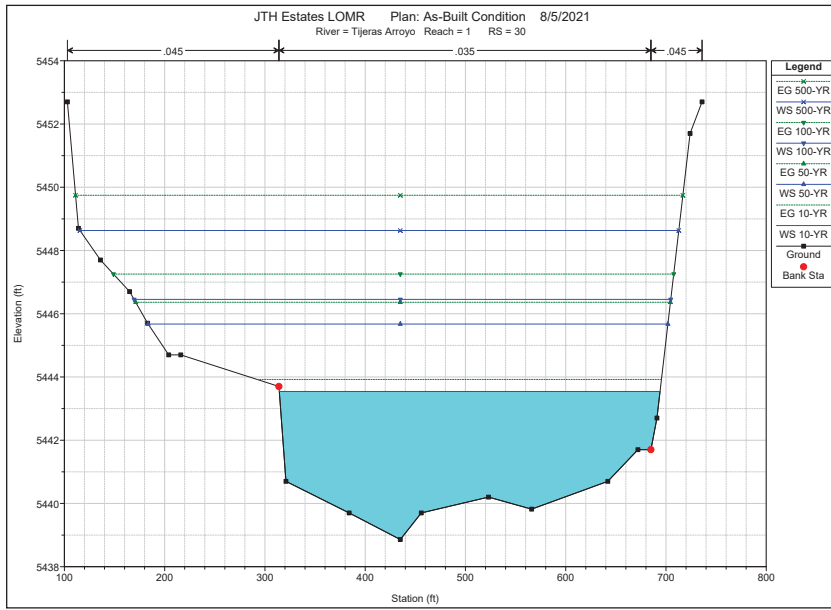
HEC-RAS Plan: As-Built River: Tijeras Arroyo Reach: 1 (Continued)

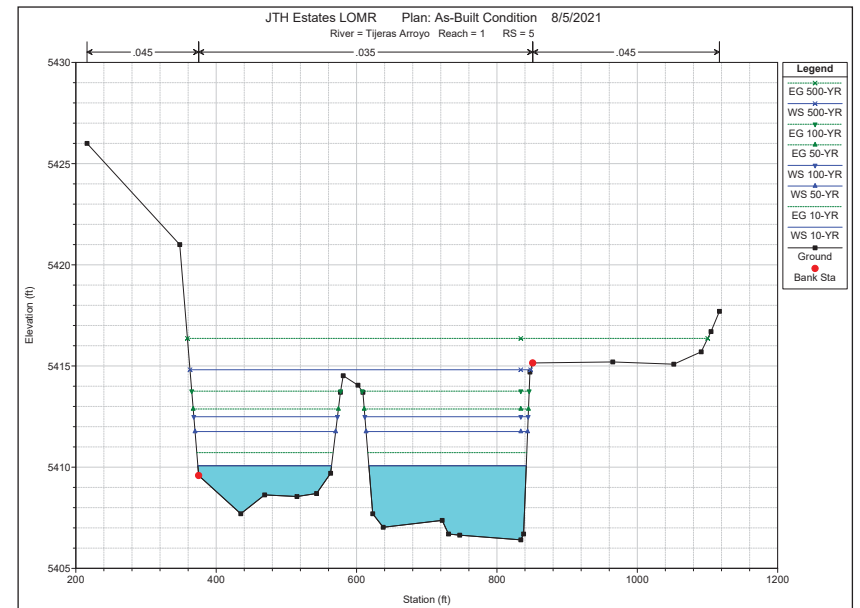
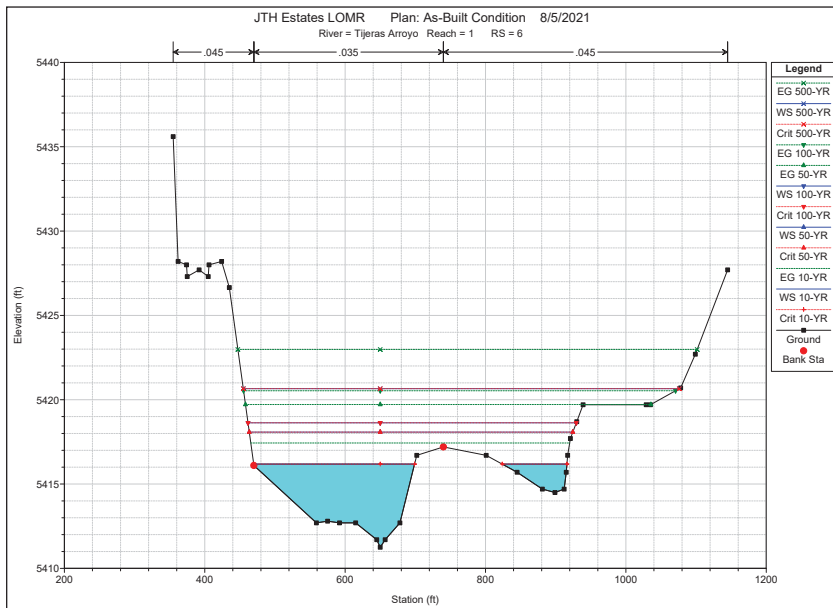
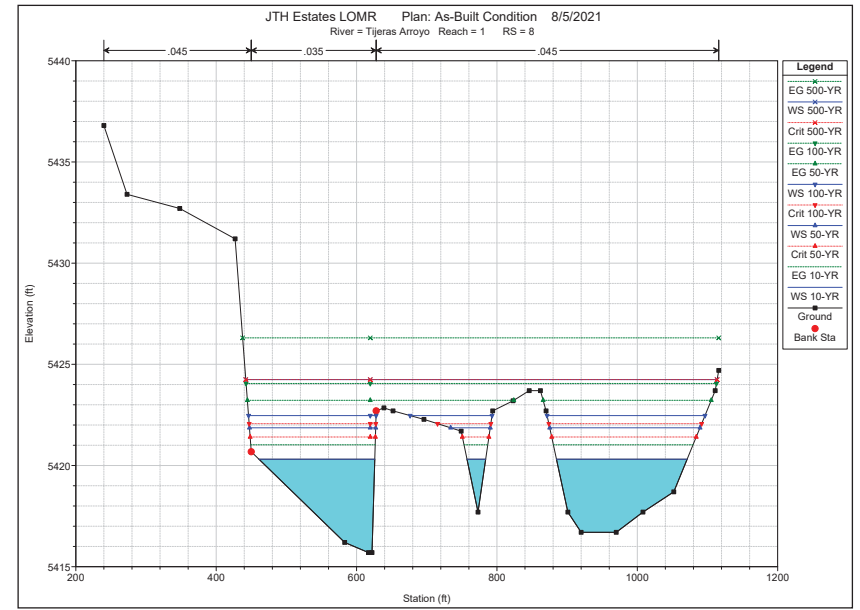
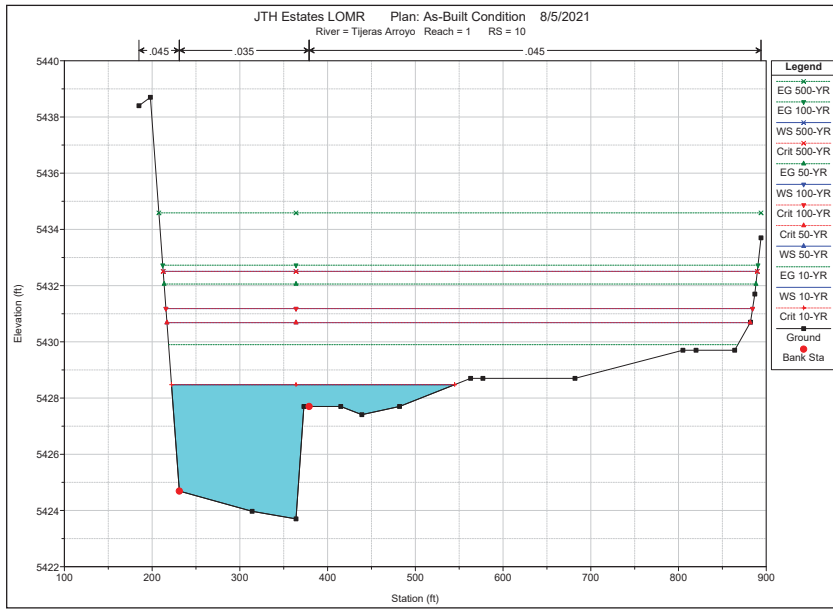
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	4	100-YR	18065.00	5399.70	5406.21	5406.21	5408.94	0.010315	13.26	1368.34	256.30	1.00
1	4	500-YR	30500.00	5399.70	5408.59	5408.59	5412.30	0.008835	15.48	1997.31	314.42	0.98
1	3.5	10-YR	6285.00	5392.82	5396.93		5397.84	0.008095	7.68	820.53	290.08	0.80
1	3.5	50-YR	14300.00	5392.82	5398.96		5400.39	0.007202	9.60	1499.07	348.91	0.81
1	3.5	100-YR	18065.00	5392.82	5399.68		5401.35	0.007007	10.40	1750.58	354.77	0.82
1	3.5	500-YR	30500.00	5392.82	5401.45	5400.89	5404.01	0.007448	12.87	2394.11	370.19	0.88
1	3	10-YR	6285.00	5385.92	5390.24	5390.24	5391.84	0.012423	10.15	619.07	194.90	1.00
1	3	50-YR	14300.00	5385.92	5392.68	5392.68	5395.01	0.011068	12.25	1167.42	253.59	1.01
1	3	100-YR	18065.00	5385.92	5393.53	5393.53	5396.17	0.010492	13.02	1387.13	263.71	1.00
1	3	500-YR	30500.00	5385.92	5396.24	5396.24	5399.33	0.008021	14.14	2246.82	520.47	0.92
1	2.9	10-YR	6285.00	5378.85	5385.70	5383.87	5386.40	0.003296	6.69	939.65	978.15	0.55
1	2.9	50-YR	14300.00	5378.85	5388.00	5386.58	5389.48	0.005241	9.77	1463.77	1305.05	0.72
1	2.9	100-YR	18065.00	5378.85	5389.00	5387.48	5390.70	0.005150	10.46	1727.69	1326.78	0.73
1	2.9	500-YR	30500.00	5378.85	5391.80	5390.08	5393.96	0.004258	11.92	2803.93	1674.57	0.70

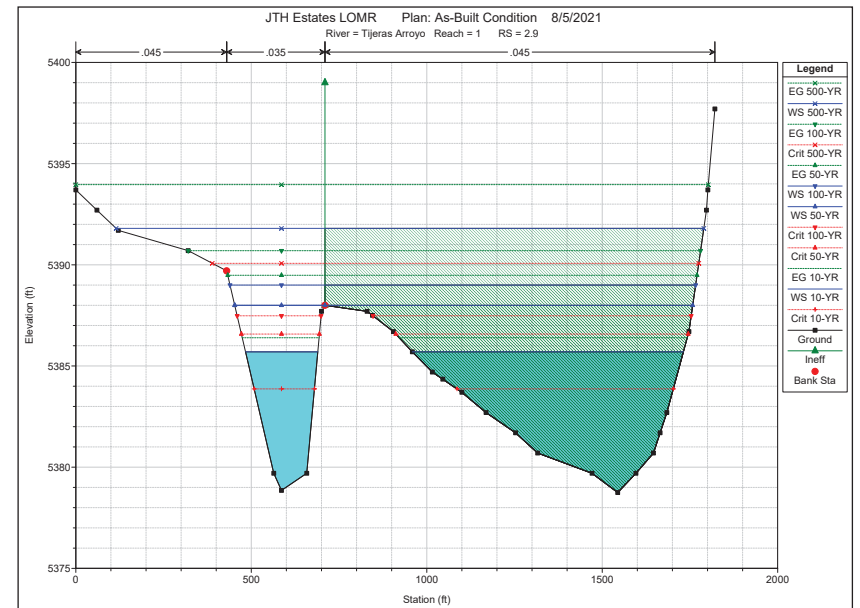
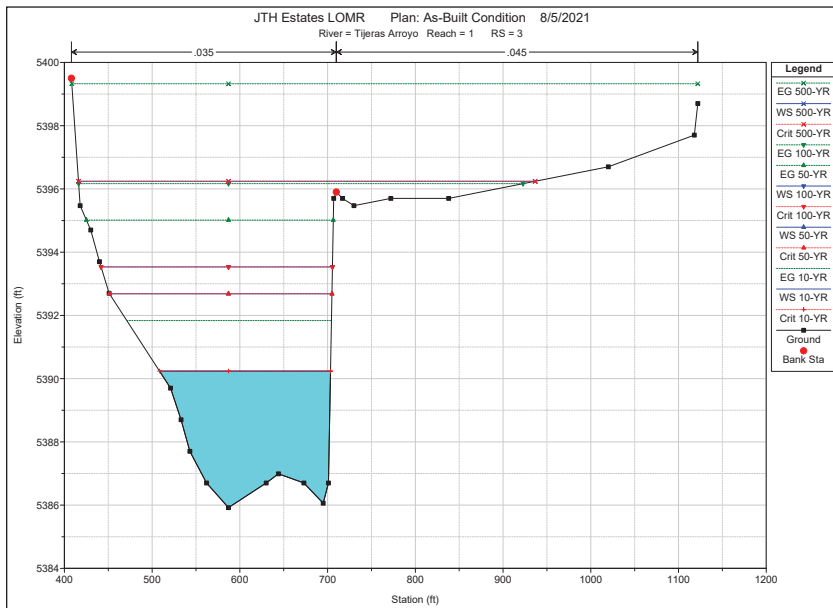
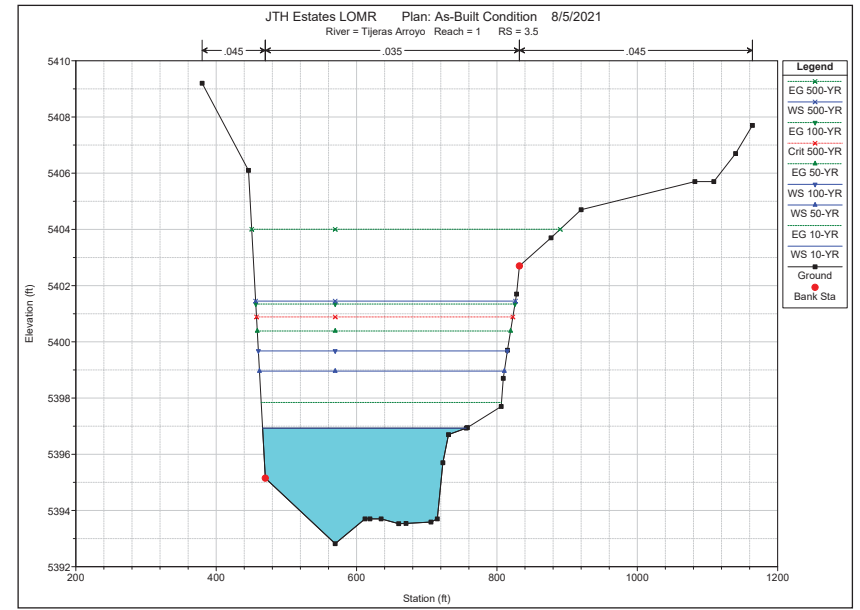
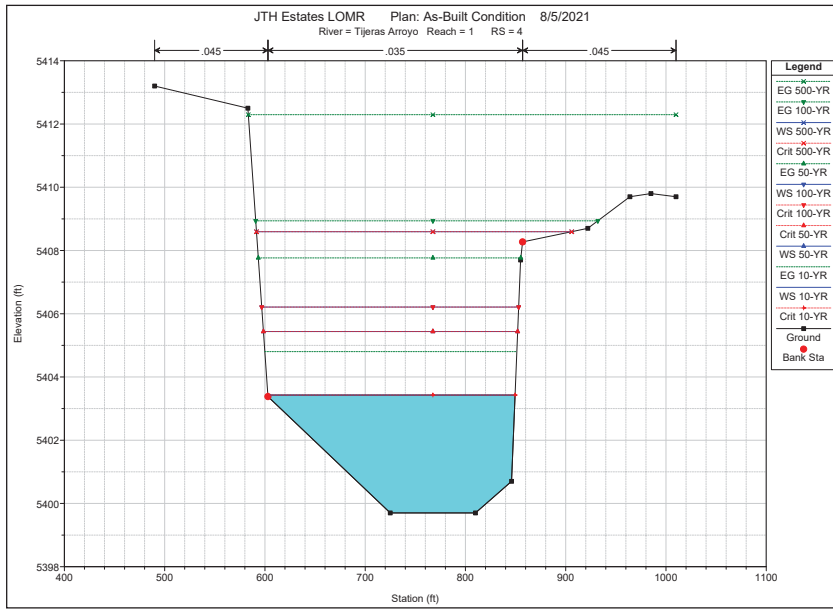












HEC-RAS Plan: As-Built FW River: Tijeras Arroyo Reach: 1

Reach	River Sta	Profile	W.S. Elev (ft)	Prof Delta WS (ft)	E.G. Elev (ft)	Top Width Act (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Enc Sta L (ft)	Ch Sta L (ft)	Ch Sta R (ft)	Enc Sta R (ft)
1	70	100-YR	5508.52		5509.96	745.35	3274.50	10447.96	4342.54		1480.00	1690.00	
1	70	100-YR FW	5509.42	0.90	5511.96	291.40	1149.72	14791.24	2124.04	1451.06	1480.00	1690.00	1742.46
1	60	100-YR	5490.18		5491.35	986.30	147.90	11950.50	5966.61		1145.00	1600.00	
1	60	100-YR FW	5491.12	0.94	5492.97	455.00		18065.00		1145.00	1145.00	1600.00	1600.00
1	54	100-YR	5481.67		5482.42	1014.90	4176.08	8460.10	5428.82		507.00	750.00	
1	54	100-YR FW	5482.03	0.36	5484.03	417.41	1703.95	13245.69	3115.36	440.59	507.00	750.00	858.00
1	52	100-YR	5479.35		5480.88	654.10	1268.85	14192.89	2603.27		149.00	519.00	
1	52	100-YR FW	5479.78	0.43	5481.70	440.00	1409.16	16655.84		70.00	149.00	519.00	510.00
1	51	100-YR	5477.14		5478.86	560.38	665.87	15349.42	2049.71		164.00	490.00	
1	51	100-YR FW	5477.35	0.20	5479.33	430.00	748.59	16800.61	515.80	80.00	164.00	490.00	510.00
1	50	100-YR	5474.98		5476.91	490.91	297.94	10999.06	6767.99		102.00	325.00	
1	50	100-YR FW	5475.44	0.47	5477.47	399.00	477.13	12253.52	5334.35	58.00	102.00	325.00	457.00
1	46	100-YR	5471.48		5472.48	442.71	1370.37	12373.55	4321.08		565.00	809.00	
1	46	100-YR FW	5471.30	-0.18	5472.50	390.00	713.11	12874.17	4477.72	535.00	565.00	809.00	925.00
1	45	100-YR	5470.56		5471.87	223.61		18065.00			68.00	332.00	
1	45	100-YR FW	5470.56	0.00	5471.87	223.62		18065.00		68.00	68.00	332.00	332.00
1	44	100-YR	5470.45		5471.81	212.90		18065.00			80.00	332.00	
1	44	100-YR FW	5470.45	0.00	5471.81	212.91		18065.00		80.00	80.00	332.00	332.00
1	43.5 BR U	100-YR	5468.84		5471.52	179.90		18065.00			80.00	332.00	
1	43.5 BR U	100-YR FW	5468.85	0.01	5471.52	179.91		18065.00		80.00	80.00	332.00	332.00
1	43.5 BR D	100-YR	5467.29		5470.60	183.98		18065.00			100.00	382.00	
1	43.5 BR D	100-YR FW	5467.24	-0.05	5470.60	182.39		18065.00		110.00	100.00	382.00	322.00
1	43	100-YR	5466.66		5469.71	211.68		18065.00			100.00	382.00	
1	43	100-YR FW	5466.66	0.00	5469.71	211.45		18065.00		110.00	100.00	382.00	322.00
1	42	100-YR	5466.37		5469.27	223.07		18065.00			6.00	240.00	
1	42	100-YR FW	5466.37	0.00	5469.27	223.07		18065.00		6.00	6.00	240.00	240.00
1	41	100-YR	5460.17		5462.33	373.62	113.67	17946.54	4.78		166.00	500.00	
1	41	100-YR FW	5460.76	0.59	5462.44	360.00	167.00	17898.00		140.00	166.00	500.00	500.00
1	40	100-YR	5457.93		5460.10	383.35	1963.52	11925.34	4176.14		250.00	429.00	

HEC-RAS Plan: As-Built FW River: Tijeras Arroyo Reach: 1 (Continued)

Reach	River Sta	Profile	W.S. Elev (ft)	Prof Delta WS (ft)	E.G. Elev (ft)	Top Width Act (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Enc Sta L (ft)	Ch Sta L (ft)	Ch Sta R (ft)	Enc Sta R (ft)
1	40	100-YR FW	5458.16	0.23	5460.61	310.00	1802.88	12958.13	3303.99	190.00	250.00	429.00	500.00
1	35	100-YR	5451.70		5453.45	577.04	1004.93	16882.75	177.32		291.00	616.00	
1	35	100-YR FW	5451.67	-0.03	5453.45	569.00	980.12	16899.03	185.85	69.00	291.00	616.00	640.00
1	30	100-YR	5446.45		5447.26	535.29	698.68	17207.08	159.24		314.00	685.00	
1	30	100-YR FW	5446.49	0.04	5447.28	530.00	715.20	17184.99	164.81	170.00	314.00	685.00	700.00
1	22	100-YR	5443.12		5445.12	461.47	5883.21	11908.48	273.31		361.00	459.00	
1	22	100-YR FW	5443.23	0.10	5445.20	440.00	6107.79	11945.52	11.69	20.00	361.00	459.00	460.00
1	20	100-YR	5440.76		5443.22	339.08	3700.48	13635.58	728.94		523.00	625.00	
1	20	100-YR FW	5440.79	0.03	5443.21	337.34	3721.01	13594.65	749.34	220.00	523.00	625.00	680.00
1	15	100-YR	5434.61		5436.44	572.33		15525.17	2539.83		202.00	408.00	
1	15	100-YR FW	5435.53	0.92	5437.91	340.00		15592.58	2472.42	260.00	202.00	408.00	600.00
1	10	100-YR	5431.18		5432.73	668.70	264.66	11888.67	5911.67		231.00	379.00	
1	10	100-YR FW	5431.73	0.55	5434.15	313.00		12708.97	5356.03	257.00	231.00	379.00	570.00
1	8	100-YR	5422.47		5424.06	523.42	10.20	9495.31	8559.49		450.00	628.00	
1	8	100-YR FW	5422.91	0.44	5424.29	555.89		9194.57	8870.43	475.00	450.00	628.00	1093.00
1	6	100-YR	5418.63		5420.53	467.78	39.36	15096.58	2929.06		470.00	740.00	
1	6	100-YR FW	5419.11	0.48	5421.30	360.00		16478.61	1586.39	490.00	470.00	740.00	850.00
1	5	100-YR	5412.49		5413.76	437.34	30.71	18034.29			375.00	851.00	
1	5	100-YR FW	5412.66	0.17	5414.04	389.94		18065.00		415.00	375.00	851.00	843.00
1	4	100-YR	5406.21		5408.94	256.30	34.94	18030.06			603.00	857.00	
1	4	100-YR FW	5406.28	0.07	5409.13	236.17		18065.00		617.00	603.00	857.00	857.00
1	3.5	100-YR	5399.69		5401.35	354.89	100.78	17964.22			470.00	832.00	
1	3.5	100-YR FW	5399.87	0.18	5402.14	288.00		18065.00		526.00	470.00	832.00	814.00
1	3	100-YR	5393.51		5396.17	263.46		18065.00			408.00	710.00	
1	3	100-YR FW	5393.51	0.00	5396.17	263.48		18065.00		409.00	408.00	710.00	710.00
1	2.9	100-YR	5389.00		5390.70	270.62		18065.00			430.00	710.00	
1	2.9	100-YR FW	5389.00	0.00	5391.08	204.00		18065.00		506.00	430.00	710.00	746.00

