Existing Conditions Flows

Reach	River Sta (updated 5/1)	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl	Crossing	Bank Elevation (ft) Left(E)	Bank Elevation (ft) Right(W)	Freeboard (ft) Left(E)	Freeboard (ft) Right(W)
Main	39629.54	1076.4	5022.84	5038.06	5028.63	5038.13	0.000098	3.22	667.44	119.97	0.15			5036.67		-1.39
Main	39419.87	1076.4	5022.84	5038.07	5028.28	5038.1	0.000071	1.57	687.05	112.57	0.1			5036.44		-1.63
Main	39219.87	1132	5022.81	5038.02	5028.6	5038.08	0.0001	1.97	574.61	74.43	0.12			5036.9		-1.12
Main	39075.03	Culvert									Goodard					
Main	39019.87	1132	5022.79	5036.68	5027.1	5036.73	0.000079	1.87	604.32	69	0.11			5040.6		3.92
Main	38819.87	1132	5022.81	5036.64	5027.8	5036.71	0.000119	2.12	534.52	69.71	0.13			5039.5		2.86
Main	38619.87	1068	5022.84	5036.6	5028.35	5036.68	0.00014	2.26	473.48	62.42	0.14			5038.6		2
Main	38554.13	Culvert									ACC (Stadium)					
Main	38388.22	2442	5022.7	5035.19	5030.76	5035.69	0.000967	5.67	430.94	62.19	0.38			5038.2		3.01
Main	38219.87	2442	5022.71	5035.16	5029.51	5035.51	0.000589	4.75	513.89	66.82	0.3			5037.9		2.74
Main	38019.87	2442	5022.41	5035.16	5027.6	5035.33	0.000175	3.79	885.77	107.67	0.19					*
Main	37942.11	2442	5022.71	5035.09	5027.88	5035.31	0.000223	4.21	765.36	90.86	0.21					*
Main	37819.87	2442	5022.23	5034.96	5028.45	5035.26	0.00033	5.21	651.75	82.6	0.26					*
Main	37713.39	2442	5022.39	5034.54	5030.34	5035.18	0.000884	8.33	465.61	65.46	0.42					*
Main	37619.87	2442	5022.09	5034.63	5029.57	5035.03	0.00073	5.1	478.46	65.81	0.33					*
Main	37395.05	2442	5021.38	5034.43		5034.86	0.000754	5.26	464.35	61.67	0.34			5035.6		1.17
Main	37237.63	2408	5021.99	5034.44		5034.73	0.000485	4.3	560.11	74.31	0.28					*
Main	37019.87	2408	5022.49	5034.23	5029.82	5034.59	0.000793	4.77	505.27	84.13	0.34			5036.8		2.57
Main	36619.87	2408	5021.82	5033.8	5029.56	5034.22	0.001047	5.21	462.61	83.28	0.39					*
Main	36419.87	2408	5021.47	5033.6		5034.02	0.000901	5.18	464.51	73.81	0.36			5036.8		3.2
Main	36330.48	2408	5021.16	5033.48		5033.94	0.000856	5.43	443.77	62.55	0.36					*
Main	36019.87	2276	5020.98	5033.22		5033.67	0.000874	5.39	422	60.79	0.36					*
Main	35819.87	2276	5020.84	5033.25	5027.44	5033.48	0.000428	3.88	586.46	117.78	0.26		5036.6	5037	3.35	3.75
Main	35619.87	2276	5020.78	5033.11	5027.42	5033.39	0.000492	4.23	538.63	74.43	0.28		5036.5	5037	3.39	3.89
Main	35372.97	2276	5020.59	5032.84		5033.23	0.000715	5.02	453.49	62.66	0.33		5036.9	5036.8	4.06	3.96
Main	35219.87	2276	5020.41	5032.76		5033.12	0.000631	4.79	475.42	63.92	0.31		5036.9	5036.9	4.14	4.14
Main	35123.82	2276	5020.24	5032.66		5033.05	0.000717	5.02	453.13	62.49	0.33					*
Main	34819.87	2276	5019.75	5032.38		5032.85	0.000564	6.73	499.14	64.96	0.34					*
Main	34535.72	2877	5019.41	5032.29	5025.66	5032.7	0.000387	5.71	663.86	77.88	0.28			5036.6		4.31
Main	34368.55	Culvert									Gibson					
Main	34202.17	2877	5019.33	5030.82		5031.31	0.000523	6.14	588.93	73.08	0.32			5037.3		6.48
Main	34019.87	2877	5019.51	5030.48		5031.15	0.001274	6.57	437.94	63.09	0.44					*
Main	33819.87	2877	5018.41	5030.11		5030.87	0.001484	6.97	412.93	60.7	0.47			5034.4		4.29
Main	33598.79	2941	5017.31	5029.29		5030.45	0.002006	12.37	408.97	61.1	0.63			5032.6		3.31
Main	33419.87	2941	5018.11	5029.23		5030	0.00173	7.07	416.2	68.37	0.5			5032.6		3.37
Main	33219.87	2941	5017.28	5028.98		5029.68	0.001299	6.7	439.03	61.88	0.44			5034.8		5.82
Main	33019.87	3037	5018.32	5028.3		5029.31	0.002244	8.09	375.55	61.3	0.58			5030.6		2.3
Main	32819.87	3037	5016.42	5027.62		5028.85	0.002168	12.3	420.29	70.35	0.65			5036.5		8.88
Main	32619.16	3037	5015.77	5028.26		5028.42	0.000233	3.22	944.62	115.12	0.2			5040.5		12.24
Main	32548.44	3613	5015.77	5027.14		5028.29	0.001483	10.33	501.36	68.66	0.54					*
Main	32419.87	3613	5015.38	5027.44	5021.59	5028	0.000594	6.14	645.96	75.42	0.32					*
Main	32186.81	Culvert									Interstate 25					
Main	31984.36	3613	5014.75	5025.75		5026.4	0.000965	6.46	559.3	63.87	0.38			5028.6		2.85
Main	31819.87	3613	5014.08	5025.44		5026.2	0.001371	7.01	515.43	71.32	0.46			5028.3		2.86
Main	31619.87	3613	5013.49	5025.02	5021.7	5025.89	0.001593	7.48	483.08	72.99	0.5			5027.5		2.48
Main	31419.87	3613	5013.49	5022.18	5022.18	5025.15	0.005358	16.42	309.42	54.43	0.98			5027.1		4.92
Main	31382.6*	3613	5014	5020.99	5021.69	5024.82	0.008187	17.55	264.44	53.45	1.17					*
Main	31345.3*	3613	5014	5019.78	5021.16	5024.38	0.011897	18.39	231.13	51.92	1.36					*
Main	31308.12	3613	5014.33	5020.2	5020.89	5023.66	0.009255	16.6	268.97	59.73	1.21			5026.7		6.5
Main	31189.84	3613	4987.13	4989.26	4993.36	5018	0.273952	43.02	83.98	42.07	5.37			5004.8		15.54
Main	31019.87	3613	4987.13	4998.81	4995.81	4999.95	0.001735	11.38	499.54	69.21	0.59			5003.7		4.89
Main	30819.87	3523	4986.2	4998.44		4999.61	0.001515	10.8	498.85	71.31	0.55			5002.7		4.26
Main	30619.87	3523	4986.2	4998.61		4999.19	0.001015	6.09	578.81	79.94	0.4			5003.4		4.79
Main	30419.87	3523	4985.09	4998.41		4999	0.000908	6.14	574.22	70.32	0.38			5003		4.59
Main	30180.33	3523	4985.09	4998.56	4990.44	4998.78	0.000261	3.77	933.39	93.91	0.21			5001.3		2.74
Main	30128.32	Culvert									Woodward				0	0
Main	30019.87	3523	4984.75	4997.85		4998.12	0.000316	4.13	852.66	83.53	0.23			5001.1		3.25
Main	29819.87	3513	4984	4996.77		4997.91	0.001597	11.44	494.26	66.54	0.57			5001.1		4.33
Main	29619.87	3513	4984	4996.85		4997.5	0.001069	6.49	541.09	69.08	0.41			5001		4.15
Main	29419.87	3513	4982.94	4996.65		4997.29	0.001052	6.43	546.14	69.07	0.4			5000.9		4.25
Main	29219.87	3513	4982.75	4996.33		4997.05	0.001251	6.82	515.36	68.2	0.44			5001		4.67
Main	29019.87	3513	4982.11	4996.15		4996.8	0.001039	6.46	544.22	67.67	0.4			5000.6		4.45
Main	28819.87	3706	4981.73	4996.1		4996.59	0.000697	5.62	659.96	75.95	0.34			4999.8		3.7
Main	28700.61	3706	4981.73	4995.94		4996.49	0.000826	5.94	624.3	74.68	0.36			5000.4		4.46
Main	28619.87	3706	4981.73	4995.86	4990.57	4996.42	0.000837	6.02	615.86	72.73	0.36			5000.4		4.54
Main	28419.87	3706	4981.69	4995.67		4996.25	0.000899	6.11	606.53	73.72	0.38			5000.3		4.63
Main	28219.87	3706	4981.63	4995.56		4996.06	0.000726	5.7	649.78	74.52	0.34			5000.3		4.74
Main	28019.87	3706	4981.6	4995.53		4995.9	0.000505	4.93	751.54	83.07	0.29		5000.9	4999.5	5.37	3.97
Main	27819.87	3706	4981.4	4995.4	4988.89	4995.8	0.000545	5.06	732.35	84.43	0.3			4999.3		3.9
Main	27619.87	3706	4981.1	4995.26		4995.68	0.000576	5.2	712.45	79.87	0.31			4999.7		4.44
Main	27419.87	3706	4981.63	4995.02		4995.54	0.000779	5.78	641.62	77.52	0.35			4999.6		4.58
Main	27219.87	3706	4980.93	4995.13	4986.51	4995.39	0.000207	4.46	1027.02	98.73	0.21			5001.1		5.97
Main	27159.83	Culvert									Rail East-West				0	0
Main	27019.87	3706	4980.97	4994.29		4994.55	0.000314	4.09	905.87	92.92	0.23			4999.8		5.51
Main	26819.87	3706	4980.22	4994.39		4994.46	0.000072	2.12	1745.31	164.14	0.11			4999		4.61
Main	26647.36	3882	4979.48	4993.6		4994.36	0.000776	8.58	669.32	77.4	0.4			4999		5.4
Main	26619.87	3882	4979.71	4993.57		4994.34	0.000806	8.54	661.1	77.64	0.41			4999		5.43
Main	26419.87	3882	4979.44	4993.3		4994.16	0.000935	9.16	631.08	76.49	0.44			4900		*
Main	26219.87	3882	4979.32	4993.1		4993.97	0.000934	9.21	628.16	75.56	0.44			4998.1		5
Main	26019.87	3882	4979.37	4992.82		4993.77	0.001064	9.62	601.36	74.48	0.47			4998		5.18
Main	25819.87	3882	4979.05	4992.61		4993.55	0.001045	9.54	599.51	72.94	0.46			4900		*
Main	25619.87	3800	4979.76	4992.31		4993.32	0.001251	10.06	565.62	72.87	0.5			4900		*
Main	25419.87	3800	4979.56	4992.1		4993.06	0.001219	9.89	575.96	74.39	0.5			4996.8		4.7
Main	25219.87	3800	4979.11	4991.78		4992.8	0.001298	10.29	559.94	71.79	0.51					*
Main	25019.87	3800	4976.01	4991.56		4992.54	0.001248	11.51	589.33	72.51	0.52					*
Main	24819.87	3800	4975.06	4991.62		4992.21	0.000877	6.15	618.29	72	0.37					*
Main	24619.87	3800	4976.96	4991.37		4992.02	0.001002	6.47	587.14	71.37	0.4					*
Main	24419.87	3800	4975.97	4991.05		4991.79	0.001194	6.91	550.16	67.3	0.43					*
Main	24299.17	3800	4976.32	4990.99	4985.89	4991.63	0.000969	6.39	594.3	71.32	0.39					*
Main	24219.87	3800	4976.66	4990.29		4991.48	0.00133	10.71	533.7	68.7	0.52					*
Main	24019.87	3690.1	4976.62	4989.63		4991.15	0.001714	11.73	468.62	67.05	0.59			4996.5		6.87
Main	23819.87	3690.1	4976.78	4989.52		4990.75	0.001397	10.54	503.64	67.12	0.53					*
Main	23619.87	3690.1	4976.55	4988.91		4990.4	0.001893	11.98	466.74	68.83	0.61					*
Main	23419.87	3690.1	4977.41	4988.71		4989.98	0.001702	10.86	486.67	68.32	0.57					*
Main	23298.05	3690.1	4977.08	4988.63		4989.74	0.001433	10.26	517.94	69.45	0.53					*
Main	23219.87	3690.1	4977.08	4988.58		4989.61	0.001318	9.81	537.47	71.9	0.51					*
Main	23043.26	3690.1	4976.9	4988.91	4982.33	4989.27	0.000485	4.85	760.79	78.25	0.27			4997.3		8.39
Main	22991.14	Culvert									Rail North Sout				0	0
Main	22954.45	3653	4976.99	4987.5	4982.01	4987.85	0.000505	4.77	766.24	88.69	0.29		4996.1		8.6	*
Main	22902.36	3653	4976.99	4987.07	4983.59	4987.78	0.001009	7.87	622.3	87.32	0.44					*
Main	22853.8*	3653	4977	4986.83		4987.71	0.001267	8.67	562.15	80.34	0.49					*
Main	22805.2*	3653	4977	4986.58		4987.62	0.001604	9.59	514.35	75.45	0.55					*
Main	22756.7*	3653	4977	4986.1		4987.49	0.00225	10.97	445.49	68	0.64					*
Main	22708.2	3653	4976.96	4984.32	4984.32	4987.18	0.005917	15.42	306	57.01	1			4994		9.68
Main	22581.32	3653	4961.15	4964.7	4968.91	4983.62	0.102242	34.91	104.64	30.93	3.34			4980.4		15.7
Main	22357.76	3653	4961.15	4973.57	4968.56	4974.19	0.00067	7.36	694.39	90.62	0.37			4983.6		10.03
Main	22305.43	Bridge									Broadway					
Main	22248.03	3653	4960.68	4973.4	4968.37	4974	0.00065	7.36	703.37	88.31	0.36					*
Main	22019.87	3653	4960.36	4973.31		4973.81	0.00076	5.68	642.71	78.08	0.35		4980.5	4979.8	7.19	6.49
Main	21819.87	3653	4959.73	4973.27		4973.65	0.00056	4.93	741.28	89.33	0.3					*
Main	21619.87	3653	4959.73	4972.93		4973.49	0.000862	6.02	607.01	73.96	0.37					*
Main	21419.87	3497	4959.73	4972.68		4973.33	0.000693	7.7	643.79	76.8	0.38		4978.9	4979.2	6.22	6.52
Main	21219.87	3497	4959.73	4972.61		4973.14	0.00085	5.81	601.74	76.88	0.37					*
Main	21139.29	3497	4959.73	4972.55	4967.52	4973.07	0.000815	5.76	606.94	76.31	0.36					*
Main	21079.01	Bridge									Rio Bravo				0	0
Main	21019.87	3497	4959.73	4972.05	4968.1	4972.92	0.001106	9.41	558.45	72.43	0.47					*
Main	21005.2	Bridge									Pedestrian Bridge				0	0
Main	20979.24	3497	4959.73	4972.09		4972.84	0.000971	8.84	592.93	75.33	0.44		4979.3	4979	7.21	6.91
Main	20819.87	3497	4959.73	4972.15		4972.63	0.00072	5.54	631.66	77.07	0.34		4978.8	4978.4	6.65	6.25
Main	20619.87	3497	4959.14	4972.04		4972.48	0.000652	5.33	655.7	78.19	0.32					*
Main	20419.87	3497	4959.14	4971.85		4972.34	0.000746	5.58	626.61	76.93	0.34					*
Main	20219.87	3391	4959.14	4971.45		4972.15	0.000886	8.42	602.93	78.21	0.42					*
Main	20019.87	3391	4959.14	4971.49		4971.92	0.000656	5.27	643.96	79.21	0.33					*
Main	19819.87	3391	4959.14	4971.29		4971.77	0.000762	5.57	609.3	76.82	0.35		4979.6	4977.2	8.31	5.91
Main	19619.87	3391	4959.14	4971.15		4971.62	0.000742	5.48	618.73	78.89	0.34					*
Main	19419.87	3391	4958.08	4971.04		4971.47	0.00066	5.25	645.69	80	0.33					*
Main	19219.87	3314	4958.08	4970.67		4971.31	0.000752	7.88	617.89	76.51	0.39					*
Main	19019.87	3314	4958.08	4970.67		4971.1	0.000688	5.31	623.97	78.59	0.33					*
Main	18819.87	3314	4958.08	4970.53		4970.97	0.000697	5.32	622.56	78.65	0.33			4976.3		5.77
Main	18699.57	3314	4958.05	4970.45		4970.88	0.000664	5.24	632.21	79.21	0.33					*
Main	18619.87	3314	4958.05	4970.4		4970.83	0.000659	5.21	635.91	79.88	0.33					*
Main	18419.87	3314	4958.05	4970.24		4970.69	0.000713	5.36	617.96	78.98	0.34					*
Main	18219.87	3314	4957	4970.09		4970.54	0.000716	5.39	614.66	77.17	0.34			4975.9		5.81
Main	18019.87	3314	4957	4969.99		4970.39	0.000635	5.11	648.56	81.87	0.32					*
Main	17819.87	3213	4957	4969.84		4970.26	0.000666	5.19	618.84	77.88	0.32					*
Main	17619.87	3213	4957	4969.66		4970.12	0.000731	5.43	591.71	75.18	0.34					*
Main	17500.53	3213	4957	4969.55		4970.03	0.00078	5.54	580.39	75.12	0.35					*
Main	17419.87	3213	4957	4969.47		4969.96	0.000814	5.61	573.01	75.13	0.36			4974.7		5.23
Main	17219.87	3213	4957	4969.32		4969.8	0.000769	5.56	577.61	73.23	0.35			4975.9		6.58
Main	17122.19	3213	4957.01	4968.99	4964.6	4969.7	0.000914	8.36	560.16	71.12	0.43					*
Main	17098.48	Bridge									Prosperity					
Main	17076.37	3213	4957.01	4968.69		4969.63	0.001166	9.32	506.8	72.61	0.48					*
Main	17019.87	3213	4957.01	4968.81		4969.49	0.000918	8.33	572.15	75.62	0.43			4975.6		6.79
Main	16819.87	3213	4956.7	4968.79		4969.26	0.00076	5.5	583.76	74.78	0.35					*
Main	16619.87	3213	4956.3	4968.34		4969.07	0.000973	8.58	557.21	73.69	0.44			4976.4		8.06
Main	16419.87	3213	4956.28	4968.1		4968.86	0.001067	8.99	543.31	72.51	0.46					*
Main	16219.87	3100	4956.28	4967.96		4968.63	0.000948	8.41	552.59	73.61	0.43					*
Main	16019.87	3100	4956.28	4967.78		4968.44	0.000914	8.17	557.15	74.18	0.42					*
Main	15819.87	3100	4955.32	4967.75		4968.22	0.000767	5.45	568.77	74.32	0.35					*
Main	15619.87	3100	4955.36	4967.63		4968.06	0.000696	5.28	587.67	74.97	0.33					*
Main	15419.87	3100	4955.29	4967.42		4967.9	0.000809	5.61	552.52	71.83	0.36					*
Main	15219.87	3100	4955.25	4967.26		4967.74	0.000804	5.56	557.37	72.85	0.35					*
Main	15019.87	3100	4955.59	4967.14		4967.58	0.000721	5.31	583.63	75.23	0.34					*
Main	14819.87	3023	4955.05	4966.89		4967.41	0.000927	5.78	523.1	72.23	0.38					*
Main	14619.87	3023	4954.65	4966.74		4967.22	0.000809	5.54	546.06	72.71	0.36					*
Main	14419.87	3023	4954.79	4966.59		4967.06	0.000796	5.5	549.73	73.4	0.35					*
Main	14219.87	3023	4954.57	4966.46		4966.9	0.000727	5.3	570.24	74.35	0.34					*
Main	14019.87	3023	4954.44	4966.27		4966.74	0.000817	5.47	552.16	75.13	0.36					*
Main	13819.87	3023	4955.28	4965.92		4966.53	0.001196	6.26	483.09	72.08	0.43					*
Main	13700.99	3023	4954.74	4965.78		4966.38	0.001226	6.24	484.29	73.07	0.43					*
Main	13546.91	3023	4954.48	4965.42	4962.01	4966.19	0.001075	8.53	508.54	72.56	0.46					*
Main	13518.27	Bridge									Murray				0	0
Main	13494.35	3023	4954.39	4965.3		4966.01	0.000979	8.12	527.45	74.58	0.44					*
Main	13419.87	3023	4953.93	4965.33		4965.89	0.001036	6	503.91	70.92	0.4					*
Main	13219.87	3023	4953.49	4965.1		4965.68	0.001094	6.1	495.37	70.74	0.41					*
Main	13019.87	3023	4953.58	4964.92		4965.46	0.000983	5.86	516.17	73.32	0.39					*
Main	12819.87	3023	4953.49	4964.63		4965.24	0.001135	6.26	483.21	68.43	0.41					*
Main	12619.87	3023	4953.62	4964.4		4965	0.001166	6.24	484.57	71.02	0.42					*
Main	12419.87	3023	4953.5	4963.72		4964.71	0.001419	9.3	443.91	64.78	0.52					*
Main	12219.87	3023	4953.48	4963.04		4964.32	0.002264	11.33	391.79	63.94	0.65					*
Main	12035.73	3023	4952.74	4961.18	4961.18	4963.85	0.001504	15.89	253.12	47.6	0.97					*
Main	11928.59	3023	4951.44	4957.41	4959.28	4963.24	0.006569	19.37	156.05	39.17	1.71					*
Main	11819.87	3023	4949.86	4955.52	4957.69	4962.35	0.008113	20.97	144.19	37.59	1.89					*
Main	11720.3	3023	4948.55	4954.06	4956.37	4961.44	0.009149	21.79	138.72	37.34	1.99					*
Main	11619.87	3023	4947.37	4952.81	4955.19	4960.47	0.00948	22.21	136.09	36.66	2.03					*
Main	11419.8	2837	4945.07	4950.25	4952.74	4958.42	0.01069	22.93	123.73	34.71	2.14					*

Plate 3 Existing Conditions with Stationing and Tabular Results

Legend

- Flow Change Locations
- Bridges
- Cross Section Station

N W E S

0 800 1,600 3,200 4,800 6,400 Feet

1 inch = 800 feet

Date: 8/14/2013

Easterling Consultants LLC