

TABLE D-1

Storm Sewer System B1 (Mainline Stations from 186+97.30 to 399+57.70)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
C5-30	B5-25	B5-J-7	Circular	1	37.59	0.01	5.32	3776.53	3774.46	3775.53	3773.46	1.86	11.5	0.28	9.59	0.58	3.93	0	3776.4	3773.76
C-B1-1	B1-50	J-B1-6	Circular	1	67.2	0.01	64.48	3801.75	3757.61	3800.75	3756.61	1.71	40.01	0.15	23.89	0.56	3.81	0	3801.57	3756.76
C-B1-2	B1-58	J-B1-6	Circular	1	54.65	0.01	5.73	3760.82	3757.61	3759.82	3756.61	1.42	11.93	0.24	9.52	0.5	3.59	0	3760.55	3756.86
C-B1-3	B1-51	J-B1-7	Circular	1	69.36	0.01	65.24	3801.75	3755.66	3800.75	3754.66	0.86	40.24	0.1	19.64	0.39	3.05	0	3801.29	3754.76
C-B1-4	B1-52	B1-68	Circular	1	66.25	0.01	71.53	3801.75	3753.47	3800.75	3752.47	0.86	42.14	0.1	20.13	0.39	3.05	0	3801.29	3752.57
C-B1-5	B1-59	J-B1-39	Circular	1.5	1.1	0.01	135.83	3757.3	3754.11	3755.8	3752.61	1.63	131.69	0.12	14.49	0.48	3.34	0	3756.46	3752.78
C-B1-6	B1-53	J-B1-9	Circular	1	69.38	0.01	69.74	3801.75	3752.11	3800.75	3751.11	1.64	41.61	0.14	24.43	0.55	3.74	0	3801.55	3751.25
C-B1-7	B1-60	J-B1-40	Circular	1	4.16	0.01	36.29	3754.14	3751.97	3753.14	3750.97	1.3	30.01	0.15	1.66	0.48	3.46	0	3754.25	3754.21
C-B1-8	B1-22	J-B1-10	Circular	1	66.17	0.01	2.33	3753.37	3751.78	3752.37	3750.78	1.72	7.61	0.34	2.19	0.56	3.83	0	3753.8	3753.63
C-B1-9	B1-44	J-B1-10	Circular	1	2.42	0.01	47.35	3753.78	3751.78	3752.78	3750.78	1.41	34.28	0.14	1.8	0.5	3.57	0	3753.68	3753.63
C-B5-1	B5-45	B1-98	Circular	1	3.49	0.01	55.23	3793.52	3790.88	3792.52	3789.88	1	37.03	0.12	13.02	0.42	3.21	0	3793.11	3790.03
C-B5-2	B5-1	B1-98	Circular	1	37.65	0.01	6.78	3793.52	3790.88	3792.52	3789.88	0.99	12.97	0.19	9.04	0.42	3.17	0	3793.11	3790.08
C-B5-3	B5-2	B5-J-1	Circular	1	37.39	0.01	6.86	3791.27	3788.61	3790.27	3787.61	0.99	11.86	0.2	8.54	0.42	3.17	0	3790.85	3787.82
C-B5-4	B5-46	B5-J-1	Circular	1	3.88	0.01	51.39	3791.27	3788.61	3790.27	3787.61	1	35.72	0.12	12.92	0.42	3.21	0	3790.86	3787.77
C-B5-5	B5-3	B5-J-3	Circular	1	37.53	0.01	18.05	3790.61	3783.6	3789.61	3782.6	0.99	19.24	0.16	12.09	0.42	3.17	0	3790.2	3782.76
C-B5-6	B5-47	B5-J-2	Circular	1	3.46	0.01	116.39	3789.31	3783.79	3788.31	3782.79	0.95	53.75	0.1	17.76	0.41	3.12	0	3788.88	3782.91
C-B5-7	B5-4	B5-J-4	Circular	1	40.12	0.01	13.34	3785.15	3779.63	3784.15	3778.63	0.99	16.55	0.17	10.9	0.42	3.17	0	3784.74	3778.8
C-B5-8	B5-48	B5-J-4	Circular	1	1.5	0.01	201.02	3785.15	3779.63	3784.15	3778.63	1.05	70.64	0.09	18.47	0.43	3.21	0	3784.76	3778.76
C-B5-9	B5-5	B5-J-5	Circular	1	37.64	0.01	14.15	3781.23	3775.72	3780.23	3774.72	0.99	18.74	0.16	11.77	0.42	3.17	0	3780.82	3774.88
C-B6-1	B6-1	J-B6-1	Circular	1	1.01	0.01	10	3851.89	3851.66	3850.89	3850.66	1.18	15.76	0.19	1.5	0.46	3.38	0	3853.84	3853.8
C-B6-2	B6-25	J-B6-1	Circular	1	40.64	0.01	3.98	3853.33	3851.66	3852.33	3850.66	1.01	9.94	0.22	1.29	0.43	3.18	0	3853.85	3853.8
C-B6-3	B6-2	J-B6-2	Circular	1	3.1	0.01	10	3850.98	3850.54	3849.98	3849.54	1.29	15.76	0.2	1.65	0.48	3.48	0	3853.21	3853.16
C-B6-4	B6-26	J-B6-2	Circular	1	40.63	0.01	3.99	3852.21	3850.54	3851.21	3849.54	1.11	9.95	0.23	1.42	0.44	3.33	0	3853.22	3853.16
C-B6-5	B6-3	J-B6-3	Circular	1	1.05	0.01	10	3849.76	3849.53	3848.76	3848.53	1.18	15.76	0.19	1.51	0.46	3.39	0	3852.67	3852.63
C-B6-6	B6-27	J-B6-3	Circular	1	40.66	0.01	1.57	3851.2	3850.54	3850.54	3849.54	1.01	6.24	0.28	1.29	0.43	3.18	0	3852.68	3852.63
C-B6-7	B6-4	J-B6-4	Circular	1	3.09	0.01	10	3848.95	3848.51	3847.95	3847.51	1.18	15.76	0.19	1.5	0.46	3.38	0	3851.58	3851.55
C-B6-8	B6-28	J-B6-4	Circular	1	38.1	0.01	4.24	3850.18	3848.51	3849.18	3847.51	1.01	10.26	0.22	1.29	0.43	3.18	0	3851.59	3851.55
C-B6-9	B6-6	J-B6-5	Circular	1	3.08	0.01	10	3848	3847.57	3847	3846.57	1.1	15.76	0.19	1.4	0.44	3.28	0	3849.79	3849.76
C-B7-1	B7-1	J-B7-1	Circular	1	37.46	0.01	5.78	3822.95	3820.71	3821.95	3819.71	0.99	11.98	0.2	8.54	0.42	3.2	0	3822.54	3819.92
C-B7-2	B7-37	J-B7-1	Circular	1	3.61	0.01	22.94	3821.83	3820.71	3820.83	3819.71	1	23.86	0.14	1.27	0.42	3.22	0	3821.47	3821.44
C-B7-3	B7-2	J-B7-2	Circular	1	37.51	0.01	5.78	3821.07	3818.83	3820.07	3817.83	0.98	11.98	0.2	8.51	0.42	3.16	0	3820.66	3818.03
C-B7-4	B7-38	J-B7-2	Circular	1	3.63	0.01	22.99	3819.95	3818.82	3818.95	3817.82	1	23.89	0.14	1.2	0.42	3.21	0	3819.54	3818.02
C-B7-5	B7-39	J-B7-3	Circular	1	3.56	0.01	46.42	3819.12	3816.87	3818.12	3815.87	0.98	33.95	0.12	12.16	0.42	3.16	0	3818.17	3816.03
C-B7-6	B7-3	J-B7-3	Circular	1	37.6	0.01	5.78	3819.12	3816.87	3818.12	3815.87	0.97	11.98	0.2	1.24	0.42	3.13	0	3818.7	3818.66
C-B7-7	B7-40	J-B7-4	Circular	1	3.5	0.01	46.9	3817.11	3814.86	3816.11	3813.86	1.01	34.12	0.12	1.29	0.43	3.18	0	3817.72	3817.69
C-B7-8	B7-4	J-B7-4	Circular	1	40.16	0.01	5.41	3817.1	3814.86	3816.1	3813.86	1	11.59	0.21	1.28	0.42	3.23	0	3817.74	3817.69
C-B7-9	B7-41	J-B7-5	Circular	1	3.47	0.01	47.21	3815.13	3812.88	3814.13	3811.88	1	34.23	0.12	1.27	0.42	3.21	0	3816.05	3816.02
T-B1-1	B7-84	J-B1-2	Circular	2	196.67	0.01	4	3799.93	3792.06	3797.93	3790.06	0.55	48.68	0.16	4.91	0.25	2.46	0.01	3798.27	3790.22
T-B1-2	J-B1-2	J-B1-3	Circular	2	171.78	0.01	4	3792.06	3785.19	3790.06	3783.19	3.63	48.67	0.38	8.64	0.67	3.96	0	3790.81	3783.57
T-B1-3	J-B1-3	J-B1-4	Circular	2	254.96	0.01	4	3785.19	3774.99	3783.19	3772.99	6.06	48.67	0.49	10.01	0.87	4.62	0	3784.14	3773.49
T-B1-4	J-B1-4	J-B1-5	Circular	2	250.35	0.01	4	3774.99	3764.98	3772.99	3762.98	10.2	48.66	0.65	11.63	1.14	5.49	0.01	3774.25	3763.63
T-B1-5	J-B1-5	O-B1-1	Circular	2	78.1	0.01	39.67	3764.98	3734	3762.98	3732	14.1	153.26	0.42	28.37	1.35	6.23	0.01	3765.21	3732.43
T-B1-6	J-B1-6	J-B1-7	Circular	1.5	101.93	0.01	1.92	3758.11	3756.16	3756.61	3754.66	3.12	18.48	0.43	7.35	0.67	4.06	0	3758.21	3755.09
T-B1-7	J-B1-7	B1-68	Circular	1.5	94.63	0.01	2.31	3756.16	3753.97	3754.66	3752.47	3.93	20.31	0.46	8.33	0.76	4.38	0	3755.66	3752.94
T-B1-8	B1-68	J-B1-39	Circular	1.5	30	0.01	0.24	3753.97	3753.9	3752.47	3752.4	4.74	6.54	0.99	2.68	0.84	4.68	0	3755.02	3754.89
T-B1-9	J-B1-8	J-B1-9	Circular	2	76.97	0.01	0.76	3753.69	3753.11	3751.69	3751.11	6.3	21.16	0.78	2.01	0.89	4.67	0	3754.41	3754.33
T-B5-1	B1-98	B5-J-1	Circular	1.5	198.13	0.01	1.14	3791.38	3789.11	3789.88	3787.61	1.98	12.08	0.43	4.78	0.53	3.54	0	3791.58	3788.04
T-B5-2	B5-J-1	B5-J-2	Circular	1.5	187.23	0.01	0.43	3789.11	3788.31	3787.61	3786.81	3.84	7.41	0.8	4.35	0.75	4.35	0.01	3789.02	3787.56
T-B5-3	B5-J-2	B5-J-3	Circular	1.5	9.68	0.01	2.02	3784.3	3784.1	3782.8	3782.6	4.61	16.04	0.57	2.61	0.83	4.63	0.01	3784.45	3784.1
T-B5-4	B5-J-3	B5-J-4	Circular	1.5	198.5	0.01	2	3784.1	3780.13	3782.6	3778.63	5.54	15.98	0.63	7.79	0.91	4.95	0.01	3784.1	3779.26
T-B5-5	B5-J-4	B5-J-5	Circular	1.5	197.81	0.01	1.98	3780.13	3776.22	3778.63	3774.72	7.32	15.89	0.75	8.34	1.05	5.55	0.01	3781.23	3775.47
T-B5-6	B5-J-5	B5-J-6	Circular	1.5	197.95	0.01	1.29	3776.22	3773.67	3774.72	3772.17	9.02	12.83	0.97	5.1	1.16	6.14	0.01	3778.56	3775.72
T-B5-7	B5-J-6	B5-J-7	Circular	2	158.58	0.01	0.4	3774.17	3773.53	3772.17	3771.53	10.64	16.72	1.22	3.39	1.17	5.58	0	3775.72	3773.92
T-B5-8	B5-J-7	O-B5-1	Circular	2	60.26	0.01	52.34	3773.54	3742	3771.54	3740	16.43	190.72	0.41	33.19	1.46	6.68	0.01	3773.92	3740.43
T-B5-9	B5-J-8	B5-J-7	Circular	1.5	151.2	0.01	0.38	3773.54	3773.03	3772.1	3771.53	3.03	7.52	0.69	1.71	0.66	4.02	0	3774.65	3773.92
T-B6-1	J-B6-1	J-B6-2	Circular	1.5	223.4	0.01	0.5	3852.16	3851.04	3850.66	3849.54	2.18	8.68	0.53	1.23	0.56	3.64	0	3853.8	3853.16
T-B6-2	J-B6-2	J-B6-3	Circular	1.5	203.78	0.01	0.5	3851.04	3850.02	3849.54	3848.52	4.4	8.66	0.79	2.49	0.8	4.56	0	3853.16	3852.63
T-B6-3	J-B6-3	J-B6-4	Circular	1.5	203.32	0.01	0.5	3850.02	3849.01	3848.52	3847.51	6.32	8.63	1	3.58	0.97	5.22	0.01	3852.63	3851.55
T-B6-4	J-B6-4	J-B6-5	C																	

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LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
C-B1-11	B1-43	J-B1-12	Circular	1	2.11	0.01	0.54	3752.11	3752.09	3751.11	3751.09	1.27	3.65	0.43	1.62	0.48	3.45	0	3754.82	3754.77
C-B1-12	B1-20	J-B1-13	Circular	1	66.16	0.01	2.37	3755.32	3753.71	3754.32	3752.71	1.54	7.67	0.32	7.14	0.53	3.68	0	3755.08	3753.02
C-B1-13	B1-42	J-B1-14	Circular	1	5.6	0.01	27.6	3755.89	3753.85	3754.89	3752.85	1.26	26.17	0.15	1.61	0.48	3.43	0	3756.03	3755.98
C-B1-14	B1-19	J-B1-15	Circular	1	66.51	0.01	2.36	3758.61	3757	3757.61	3756	1.5	7.66	0.31	1.91	0.52	3.66	0	3761.41	3761.28
C-B1-15	B1-41	J-B1-16	Circular	1	5.51	0.01	29.78	3759.19	3757.17	3758.19	3756.17	1.27	27.19	0.15	1.61	0.48	3.44	0	3762.87	3762.83
C-B1-16	B1-18	J-B1-17	Circular	1	65.57	0.01	2.36	3763.13	3761.55	3762.13	3760.55	1.27	7.66	0.29	1.61	0.48	3.44	0	3767.37	3767.28
C-B1-17	B1-40	J-B1-18	Circular	1	5.53	0.01	28.86	3763.66	3761.69	3762.66	3760.69	1.12	26.77	0.14	1.42	0.44	3.31	0	3767.6	3767.56
C-B1-18	B1-17	J-B1-19	Circular	1	68.03	0.01	2.33	3766.31	3764.69	3765.31	3763.69	1.31	7.61	0.29	1.67	0.48	3.48	0	3769.58	3769.48
C-B1-19	B1-39	J-B1-20	Circular	1	2.86	0.01	44.67	3766.63	3764.79	3765.63	3763.79	1.19	33.3	0.13	1.52	0.46	3.38	0	3770.16	3770.12
C-B1-20	B1-16	J-B1-21	Circular	1	72.15	0.01	2.06	3768.55	3767.03	3767.55	3766.03	0.92	7.16	0.25	1.18	0.4	3.12	0	3771.79	3771.74
C-B1-21	B1-38	J-B1-21	Circular	1	2.97	0.01	44.98	3768.93	3767.03	3767.93	3766.03	0.88	33.42	0.12	1.12	0.39	3.07	0	3771.76	3771.74
C-B1-22	B1-15	J-B1-22	Circular	1	76.88	0.01	2	3769.61	3768.05	3768.61	3767.05	1.03	7.05	0.27	1.31	0.43	3.24	0	3772.71	3772.65
C-B1-23	B1-37	J-B1-22	Circular	1	2.96	0.01	56.33	3770.42	3768.05	3769.42	3767.05	1.69	37.39	0.15	2.15	0.55	3.8	0	3772.72	3772.65
C-B1-24	B1-13	J-B1-23	Circular	1	36.1	0.01	7.7	3771.54	3768.66	3770.54	3767.66	1.13	13.82	0.2	1.43	0.45	3.3	0	3773.06	3773.01
C-B1-25	B1-14	B1-13	Circular	1	13.39	0.01	0.5	3771.48	3771.4	3770.48	3770.4	0.72	3.54	0.32	0.91	0.36	2.86	0	3773.08	3773.06
C-B1-26	B1-36	J-B1-23	Circular	1	46.74	0.01	8.1	3772.55	3768.66	3771.55	3767.66	0.2	14.18	0.09	0.26	0.12	3.6	0.02	3773.01	3773.01
C-B1-27	B1-12	J-B1-24	Circular	1	37.68	0.01	7.75	3772.27	3769.25	3771.27	3768.25	0.9	13.87	0.18	1.15	0.39	3.13	0	3773.26	3773.22
C-B1-28	B1-35	J-B1-25	Circular	1	38.28	0.01	9	3773.47	3769.91	3772.47	3768.91	0.15	14.95	0.07	0.19	0.12	2.69	0.01	3773.27	3773.27
C-B1-29	B1-34	J-B1-26	Circular	1	38.3	0.01	8.74	3773.75	3770.29	3772.75	3769.29	0.45	14.73	0.12	0.57	0.28	2.53	0	3773.33	3773.32
C-B1-30	B1-11	J-B1-27	Circular	1	37.58	0.01	8.2	3774.93	3771.74	3773.93	3770.74	0.9	14.26	0.18	9.43	0.39	3.13	0	3774.49	3770.92
C-B1-31	B1-33	J-B1-27	Circular	1	38.26	0.01	8.21	3774.99	3771.74	3773.99	3770.74	0.9	14.28	0.18	9.43	0.39	3.13	0	3774.55	3770.92
C-B1-32	B1-32	J-B1-28	Circular	1	38.81	0.01	7.45	3779.1	3776.11	3778.1	3775.11	0.9	13.59	0.18	9.13	0.39	3.13	0	3778.66	3775.3
C-B1-33	B1-10	J-B1-28	Circular	1	38.33	0.01	7.53	3779.1	3776.11	3778.1	3775.11	0.9	13.67	0.18	9.13	0.39	3.13	0	3778.65	3775.3
C-B1-34	B1-31	J-B1-29	Circular	1	38.47	0.01	8.02	3783.63	3780.44	3782.63	3779.44	0.9	14.11	0.18	9.35	0.39	3.13	0	3783.19	3779.62
C-B1-35	B1-9	J-B1-29	Circular	1	39.91	0.01	7.75	3783.63	3780.44	3782.63	3779.44	0.9	13.87	0.18	9.28	0.39	3.13	0	3783.19	3779.63
C-B1-36	B1-30	J-B1-30	Circular	1	38.41	0.01	8.03	3787.03	3783.85	3786.03	3782.85	0.91	14.12	0.18	9.4	0.4	3.06	0	3786.59	3783.03
C-B1-37	B1-8	J-B1-30	Circular	1	39.96	0.01	7.73	3787.03	3783.85	3786.03	3782.85	0.92	13.85	0.18	9.33	0.4	3.11	0	3786.6	3783.03
C-B1-38	B1-29	J-B1-31	Circular	1	38.43	0.01	7.97	3789.29	3786.13	3788.29	3785.13	0.85	14.06	0.17	9.24	0.39	3.03	0	3788.83	3785.3
C-B1-39	B1-7	J-B1-31	Circular	1	37.43	0.01	8.24	3789.32	3786.13	3788.32	3785.13	0.85	14.3	0.17	9.31	0.39	3.03	0	3788.85	3785.3
C-B1-40	B1-28	J-B1-32	Circular	1	38.48	0.01	8.01	3790.4	3787.22	3789.4	3786.22	0.85	14.1	0.17	9.24	0.39	3.03	0	3789.94	3786.39
C-B1-41	B1-6	J-B1-32	Circular	1	39.98	0.01	7.74	3790.41	3787.22	3789.41	3786.22	0.85	13.86	0.17	9.16	0.39	3.03	0	3789.95	3786.39
C-B1-42	B1-5	J-B1-33	Circular	1	37.47	0.01	8.22	3791.26	3788.07	3790.26	3787.07	0.85	14.28	0.17	9.31	0.39	3.03	0	3790.8	3787.25
C-B1-43	B1-27	J-B1-33	Circular	1	40.91	0.01	7.54	3791.25	3788.07	3790.25	3787.07	0.85	13.68	0.18	9.08	0.39	3.03	0	3790.79	3787.25
C-B1-44	B1-4	J-B1-34	Circular	1	37.58	0.01	8.19	3792.11	3788.92	3791.11	3787.92	0.9	14.26	0.18	9.41	0.39	3.13	0	3791.66	3788.1
C-B1-45	B1-26	J-B1-34	Circular	1	40.79	0.01	7.58	3792.11	3788.92	3791.11	3787.92	0.9	13.71	0.18	9.2	0.39	3.13	0	3791.66	3788.1
C-B1-46	B1-3	J-B1-36	Circular	1	39.55	0.01	7.8	3793	3789.82	3792	3788.82	0.9	13.92	0.18	9.27	0.39	3.13	0	3792.56	3789
C-B1-47	B1-25	J-B1-36	Circular	1	41.26	0.01	7.49	3793	3789.82	3792	3788.82	0.9	13.64	0.18	9.21	0.39	3.13	0	3792.56	3789
C-B1-48	B1-2	J-B1-37	Circular	1	37.51	0.01	8.07	3793.85	3790.72	3792.85	3789.72	0.9	14.16	0.18	9.37	0.4	3.05	0	3793.41	3789.9
C-B1-49	B1-24	J-B1-37	Circular	1	38.29	0.01	8.37	3794.03	3790.72	3793.03	3789.72	0.9	14.41	0.18	9.53	0.4	3.05	0	3793.59	3789.9
C-B1-50	B1-1	J-B1-38	Circular	1	39.75	0.01	5.09	3793.69	3791.61	3792.69	3790.61	0.9	11.24	0.2	7.99	0.39	3.13	0	3793.25	3790.81
C-B5-10	B5-49	B5-J-5	Circular	1	3.52	0.01	114.96	3781.24	3775.72	3780.24	3774.72	1	48.56	0.1	17.47	0.42	3.21	0	3780.83	3774.85
C-B5-11	B5-6	B5-J-6	Circular	1	40.09	0.01	13.31	3778.67	3773.17	3777.67	3772.17	0.99	16.52	0.17	10.9	0.42	3.17	0	3778.26	3772.34
C-B5-12	B5-50	B5-J-6	Circular	1	3.61	0.01	112.45	3778.67	3773.17	3777.67	3772.17	1	48.03	0.1	17.47	0.42	3.21	0	3778.26	3772.29
C-B5-13	B5-24	B5-J-8	Circular	1	57.34	0.01	2.28	3775.37	3775.03	3775.37	3774.03	1.25	7.52	0.29	6.64	0.47	3.42	0	3776.05	3774.32
C-B5-14	B5-43	B5-J-8	Circular	1	4.12	0.01	22.01	3776.22	3775.03	3775.22	3774.03	1.8	23.37	0.19	9.96	0.57	3.88	0	3776.06	3774.31
C-B5-15	B5-23	B5-J-10	Circular	1	49.57	0.01	3	3780.17	3778.65	3779.17	3777.65	1.27	8.63	0.27	1.62	0.48	3.44	0	3784.9	3784.82
C-B5-16	B5-42	B5-J-10	Circular	1	3.51	0.01	32.05	3780.17	3778.65	3779.17	3777.65	1.29	28.2	0.15	1.64	0.48	3.46	0	3784.87	3784.82
C-B5-17	B5-22	B5-J-11	Circular	1	52.12	0.01	2.86	3785.18	3783.66	3784.18	3782.66	1.27	8.42	0.27	1.62	0.48	3.44	0	3795.62	3795.54
C-B5-18	B5-41	B5-J-11	Circular	1	3.47	0.01	32.26	3785.18	3783.66	3784.18	3782.66	1.29	28.3	0.15	1.64	0.48	3.46	0	3795.59	3795.54
C-B5-19	B5-21	B5-J-12	Circular	1	52.11	0.01	3.16	3791.26	3789.57	3790.26	3788.57	1.27	8.86	0.27	1.62	0.48	3.44	0	3803.74	3803.66
C-B5-20	B5-40	B5-J-12	Circular	1	3.5	0.01	35.78	3791.27	3789.57	3790.27	3788.57	1.29	29.8	0.15	1.64	0.48	3.46	0	3803.7	3803.66
C-B5-21	B5-20	B5-J-13	Circular	1	52.14	0.01	4.13	3797.69	3795.49	3796.69	3794.49	1.32	10.12	0.25	1.68	0.49	3.48	0	3807.92	3807.83
C-B5-22	B5-19	B5-J-14	Circular	1	53.67	0.01	5.62	3804.59	3801.51	3803.59	3800.51	1.56	11.81	0.25	1.98	0.53	3.69	0	3811.19	3811.06
C-B5-23	B5-38	B5-J-14	Circular	1	3.49	0.01	65.37	3804.61	3801.51	3803.61	3800.51	1.49	40.28	0.14	1.9	0.52	3.63	0	3811.13	3811.06
C-B5-24	B5-39	B5-J-13	Circular	1	3.56	0.01	46.35	3797.71	3795.48	3796.71	3794.48	1.3	33.92	0.14	1.65	0.48	3.49	0	3807.88	3807.83
C-B5-25	B5-18	B5-J-15	Circular	1	2.99	0.01	75	3811.59	3808.39	3810.59	3807.39	0.24	43.15	0.06	0.31	0.19	2.4	0	3811.6	3811.6
C-B5-26	B5-37	B5-J-15	Circular	1	52.76	0.01	5.76	3811.5	3808.39	3810.5	3807.39	0.23	11.96	0.1	0.29	0.19	2.26	0	3811.6	3811.6
C-B5-27	B5-17	B5-J-16	Circular	1	1.05	0.01	140.25	3812.66	3809.44	3811.66	3808.44	0.42	59	0.06	13.78	0.28	2.33	0		

TABLE D-1

Storm Sewer System B1 (Mainline Stations from 186+97.30 to 399+57.70)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
C-B5-44	B5-28	B5-J-23	Circular	1	40.69	0.01	4.03	3847.27	3845.58	3846.27	3844.58	0.98	10	0.22	7.5	0.42	3.15	0	3846.86	3844.8
C-B5-45	B5-8	B5-J-24	Circular	1	1.12	0.01	56.52	3850.68	3849.35	3849.68	3848.35	1.14	37.46	0.12	1.45	0.45	3.34	0	3850.35	3850.32
C-B5-46	B5-27	B5-J-24	Circular	1	40.67	0.01	4	3851.03	3849.35	3850.03	3848.35	0.98	9.97	0.22	7.46	0.42	3.15	0	3850.61	3848.57
C-B5-47	B5-7	B5-J-25	Circular	1	1.08	0.01	57.16	3852.93	3851.6	3851.93	3850.6	1.14	37.67	0.12	1.45	0.45	3.34	0	3852.89	3852.85
C-B5-48	B5-26	B5-J-25	Circular	1	40.68	0.01	3.97	3853.27	3851.6	3852.27	3850.6	0.98	9.93	0.22	1.25	0.42	3.15	0	3852.9	3852.85
C-B6-10	B6-29	J-B6-5	Circular	1	38.13	0.01	5.27	3849.65	3847.57	3848.65	3846.57	0.94	11.44	0.2	1.2	0.41	3.1	0	3849.8	3849.76
C-B6-11	B6-31	J-B6-6	Circular	1	62.66	0.01	0.66	3846.99	3846.57	3845.99	3845.57	1.63	4.06	0.46	2.07	0.54	3.75	0	3848.47	3848.32
C-B6-12	B6-7	J-B6-6	Circular	1	1.07	0.01	4.4	3846.3	3846.2	3845.3	3845.2	1.68	10.45	0.28	2.14	0.55	3.8	0	3848.4	3848.32
C-B6-13	J-B6-48	O-B6-1	Circular	3	59.58	0.01	1.68	3813	3812	3810	3809	12.44	100.7	0.74	8.56	1.12	5.17	0	3811.39	3809.78
C-B6-14	B6-32	J-B6-8	Circular	1	54.26	0.01	2.04	3846.7	3845.57	3845.7	3844.57	1.39	7.12	0.31	6.55	0.5	3.56	0	3846.42	3844.88
C-B6-15	B6-8	J-B6-8	Circular	3	1.03	0.01	29.37	3848.23	3847.57	3845.23	3844.57	1.79	421.26	0.15	7.75	0.41	3.03	0	3845.79	3844.78
C-B6-16	B6-9	J-B6-9	Circular	1	1.04	0.01	86.57	3847.05	3845.07	3846.05	3844.07	0.8	46.36	0.09	11.72	0.37	3.02	0	3846.57	3844.21
C-B6-17	B6-10	J-B6-10	Circular	1	1.15	0.01	129.41	3847.82	3844.71	3846.82	3843.71	0.51	56.68	0.07	13.76	0.29	2.66	0	3847.23	3843.81
C-B6-18	B6-33	J-B6-10	Circular	1	51.31	0.01	3.79	3846.71	3844.71	3845.71	3843.71	1.12	9.7	0.24	7.68	0.45	3.29	0	3846.34	3843.96
C-B6-19	B6-34	J-B6-11	Circular	1	50.6	0.01	5.56	3846.5	3843.61	3845.5	3842.61	1.45	11.75	0.25	9.44	0.51	3.6	0	3846.24	3842.87
C-B6-20	B6-11	J-B6-12	Circular	1	41.85	0.01	7.33	3846.62	3843.46	3845.62	3842.46	1.46	13.49	0.23	10.31	0.51	3.63	0	3846.37	3842.7
C-B6-21	B6-35	J-B6-13	Circular	1	48.49	0.01	5.96	3845.82	3842.86	3844.82	3841.86	0.99	12.16	0.2	8.76	0.42	3.19	0	3845.41	3842.06
C-B6-22	B6-12	J-B6-14	Circular	1	40.1	0.01	7.72	3845.65	3842.45	3844.65	3841.45	1.02	13.84	0.19	9.6	0.43	3.21	0	3845.25	3841.65
C-B6-23	B6-36	J-B6-15	Circular	1	45.4	0.01	6.51	3845.14	3842.11	3844.14	3841.11	0.91	12.71	0.19	8.77	0.4	3.09	0	3844.7	3841.3
C-B6-24	B6-37	J-B6-16	Circular	1	42.51	0.01	7.07	3844.55	3841.45	3843.55	3840.45	0.74	13.24	0.17	8.55	0.36	2.97	0	3844.05	3840.62
C-B6-25	B6-41	J-B6-22	Circular	1	38.23	0.01	8.07	3834.2	3831.01	3833.2	3830.01	1	14.15	0.19	9.67	0.42	3.23	0	3833.79	3830.2
C-B6-26	B6-17	J-B6-22	Circular	1	40.04	0.01	7.72	3834.2	3831.01	3833.2	3830.01	1	13.85	0.19	9.53	0.42	3.23	0	3833.79	3830.2
C-B6-27	B6-18	J-B6-23	Circular	1	37.63	0.01	8.2	3829.19	3826	3828.19	3825	1.25	14.27	0.21	10.26	0.47	3.44	0	3828.87	3825.21
C-B6-28	B6-43	J-B6-24	Circular	1	38.28	0.01	8.04	3824.21	3821.03	3823.21	3820.03	1.25	14.13	0.21	10.19	0.47	3.44	0	3823.89	3820.24
C-B6-29	B6-19	J-B6-24	Circular	1	40.08	0.01	7.71	3824.22	3821.03	3823.22	3820.03	1.25	13.83	0.21	10.05	0.47	3.44	0	3823.89	3820.25
C-B6-30	B6-44	J-B6-25	Circular	1	38.18	0.01	8.08	3822.35	3819.16	3821.35	3818.16	0.6	14.16	0.15	8.4	0.32	2.72	0	3821.8	3818.31
C-B6-31	B6-45	J-B6-26	Circular	1	40.71	0.01	7.59	3821.15	3817.96	3820.15	3816.96	0.65	13.72	0.15	8.83	0.34	2.76	0	3821.11	3821.1
C-B6-32	B6-20	J-B6-26	Circular	1	37.66	0.01	8.17	3821.15	3817.96	3820.15	3816.96	1.25	14.24	0.21	1.6	0.47	3.44	0	3821.16	3821.1
C-B6-33	B6-50	J-B6-27	Circular	1	39.3	0.01	7.83	3820.78	3817.6	3819.78	3816.6	1.29	13.94	0.21	1.64	0.48	3.46	0	3820.51	3820.44
C-B6-34	B6-52	J-B6-27	Circular	1	36.49	0.01	2.96	3818.72	3817.6	3817.72	3816.6	1.29	8.57	0.27	1.64	0.48	3.46	0	3820.51	3820.44
C-B6-35	B6-42	J-B6-23	Circular	1	38.21	0.01	8.09	3829.2	3826	3828.2	3825	1.25	14.17	0.21	10.19	0.47	3.44	0	3828.87	3825.21
C-B6-36	B6-38	J-B6-17	Circular	1	38.18	0.01	6.5	3843	3840.43	3842	3839.43	1.06	12.71	0.2	9.06	0.43	3.24	0	3842.61	3839.64
C-B6-37	B6-14	J-B6-17	Circular	1	40.01	0.01	7.71	3843.62	3840.43	3842.62	3839.43	1.01	13.84	0.19	9.54	0.43	3.17	0	3843.21	3839.63
C-B6-38	B6-39	J-B6-18	Circular	1	38.35	0.01	8.07	3841.65	3838.45	3840.65	3837.45	1	14.15	0.19	9.67	0.42	3.23	0	3841.24	3837.64
C-B6-39	B6-15	J-B6-18	Circular	1	39.95	0.01	7.77	3841.65	3838.45	3840.65	3837.45	1	13.89	0.19	9.53	0.42	3.23	0	3841.24	3837.64
C-B6-40	B6-40	J-B6-19	Circular	1	38.19	0.01	8.09	3838.2	3835	3837.2	3834	1	14.17	0.19	9.67	0.42	3.23	0	3837.79	3834.19
C-B6-41	B6-16	J-B6-19	Circular	1	40.08	0.01	7.74	3838.2	3835	3837.2	3834	1	13.86	0.19	9.53	0.42	3.23	0	3837.79	3834.19
C-B6-42	B6-24	J-B6-30	Circular	1	40.17	0.01	7.68	3821.22	3818.04	3820.22	3817.04	0.5	13.81	0.13	7.83	0.29	2.6	0	3820.62	3817.17
C-B6-43	B6-49	J-B6-30	Circular	1	38.19	0.01	8.06	3821.22	3818.04	3820.22	3817.04	1.25	14.14	0.21	10.19	0.47	3.44	0	3820.89	3817.25
C-B6-44	B6-23	J-B6-31	Circular	1	40.19	0.01	7.65	3821.71	3818.54	3820.71	3817.54	0.75	13.78	0.16	8.83	0.36	2.92	0	3821.21	3817.7
C-B6-45	B6-22	J-B6-32	Circular	1	40.2	0.01	7.25	3822.29	3819.29	3821.29	3818.29	1.25	13.41	0.21	9.86	0.47	3.44	0	3821.97	3818.5
C-B6-46	B6-48	J-B6-32	Circular	1	40.71	0.01	7.58	3822.47	3819.29	3821.47	3818.29	1.01	13.72	0.19	9.48	0.43	3.17	0	3822.07	3818.48
C-B6-47	B6-47	J-B6-33	Circular	1	38.2	0.01	8.56	3823.67	3820.29	3822.67	3819.29	0.75	14.58	0.16	9.14	0.36	2.92	0	3823.17	3819.45
C-B6-48	B6-21	J-B6-34	Circular	1	37.65	0.01	7.71	3823.54	3820.54	3822.54	3819.54	1.26	13.83	0.21	10	0.47	3.44	0	3823.22	3819.75
C-B6-49	B6-46	J-B6-35	Circular	1	3.48	0.01	72.78	3824.51	3821.04	3823.51	3820.04	0.75	42.5	0.1	14.13	0.36	2.91	0	3824.01	3820.16
C-B7-10	B7-5	J-B7-5	Circular	1	40.2	0.01	5.42	3815.13	3812.88	3814.13	3811.88	0.99	11.6	0.2	1.26	0.42	3.18	0	3816.06	3816.02
C-B7-11	B7-6	J-B7-6	Circular	1	37.66	0.01	5.75	3813.14	3810.9	3812.14	3809.9	0.99	11.95	0.2	1.26	0.42	3.18	0	3813.48	3813.44
C-B7-12	B7-42	J-B7-7	Circular	1	0.93	0.01	103	3813.04	3810.8	3812.04	3809.8	1.05	50.56	0.1	12.68	0.43	3.21	0	3812.65	3809.97
C-B7-13	B7-43	J-B7-8	Circular	1	3.4	0.01	47.88	3811.12	3808.88	3810.12	3807.88	0.97	34.47	0.12	12.16	0.41	3.19	0	3810.7	3808.04
C-B7-14	B7-7	J-B7-8	Circular	1	37.64	0.01	5.76	3811.12	3808.88	3810.12	3807.88	1.01	11.96	0.2	8.55	0.42	3.2	0	3810.72	3808.09
C-B7-16	B7-44	J-B7-9	Circular	1	3.37	0.01	48.1	3809.1	3806.86	3808.1	3805.86	1.02	34.55	0.12	12.17	0.43	3.2	0	3808.7	3806.03
C-B7-17	B7-8	J-B7-9	Circular	1	37.66	0.01	5.75	3809.1	3806.86	3808.1	3805.86	1.01	11.95	0.2	8.55	0.42	3.2	0	3808.7	3806.07
C-B7-18	B7-45	J-B7-10	Circular	1	3.37	0.01	48.13	3807.08	3804.84	3806.08	3803.84	1.02	34.56	0.12	12.17	0.43	3.2	0	3806.68	3804
C-B7-19	B7-9	J-B7-10	Circular	1	37.66	0.01	5.76	3807.08	3804.84	3806.08	3803.84	1.01	11.95	0.2	8.55	0.42	3.2	0	3806.68	3804.05
C-B7-20	B7-46	J-B7-11	Circular	1	3.42	0.01	48.96	3805.12	3802.82	3804.12	3801.82	1.02	34.86	0.12	12.28	0.43	3.2	0	3804.72	3801.98
C-B7-21	B7-10	J-B7-11	Circular	1	40.14	0.01	5.42	3805.06	3802.82	3804.06	3801.82	1.01	11.6	0.21	8.38	0.42	3.2	0	3804.66	3802.03
C-B7-22	B7-47	J-B7-12	Circular	1	3.38	0.01	68.61	3804.51	3801.31	3803.51	3800.31	0.76	41.27	0.1	13.81	0.36	2.95	0	3804.02	3800.43
C-B7-23	B7-11	J-B7-13	Circular	1	37.66	0.01	7.14	3803.59	3800.81	3802.59	3799.81	1.01	13.31	0.19	9.21	0.42	3.24	0	3803.18	3800.01
C-B7-24	B7																			

TABLE D-1

Storm Sewer System B1 (Mainline Stations from 186+97.30 to 399+57.70)																					
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)	
C-B7-40	B7-20	J-B7-23	Circular	1	2.96	0.01	53.09	3779.15	3776.9	3778.15	3775.9	1.02	36.3	0.12	12.28	0.43	3.2	0	3778.75	3776.06	
C-B7-41	B7-56	J-B7-23	Circular	1	38.22	0.01	6.69	3779.54	3776.9	3778.54	3775.9	1.01	12.88	0.2	9.04	0.42	3.2	0	3779.14	3776.1	
C-B7-42	B7-21	J-B7-24	Circular	1	0.96	0.01	159.63	3777.45	3773.93	3777.45	3772.93	0.86	62.95	0.08	15.22	0.39	3.07	0	3776.99	3773.05	
C-B7-43	B7-57	J-B7-24	Circular	1	40.72	0.01	8.42	3777.46	3773.93	3777.46	3772.93	0.85	14.46	0.17	9.41	0.39	3.04	0	3777	3773.1	
C-B7-44	B7-22	J-B7-25	Circular	1	43.11	0.01	6.72	3773.41	3770.42	3772.41	3769.42	1.09	12.92	0.2	1.39	0.44	3.26	0	3773.69	3773.64	
C-B7-45	B7-58	J-B7-25	Circular	1	3.63	0.01	63.15	3773.53	3770.42	3772.53	3769.42	1	39.59	0.11	1.28	0.42	3.23	0	3773.67	3773.64	
C-B7-46	B7-23	J-B7-26	Circular	1	47.05	0.01	4.08	3768.87	3766.9	3767.87	3765.9	1.19	10.06	0.24	1.52	0.46	3.38	0	3770.11	3770.04	
C-B7-47	B7-59	J-B7-26	Circular	1	3.71	0.01	47.23	3769.25	3766.89	3768.25	3765.89	1.01	34.24	0.12	1.29	0.43	3.18	0	3770.07	3770.04	
C-B7-48	B7-60	J-B7-28	Circular	1	49.6	0.01	3.47	3765.43	3763.66	3764.43	3762.66	1.29	9.29	0.26	7.7	0.48	3.46	0	3765.12	3762.93	
C-B7-49	B7-61	J-B7-28	Circular	1	3.52	0.01	48.29	3765.98	3763.66	3764.98	3762.66	1.02	34.62	0.12	12.32	0.43	3.21	0	3765.58	3762.82	
C-B7-50	B7-62	J-B7-29	Circular	1	3.53	0.01	65.37	3764.71	3761.57	3763.71	3760.57	1	40.28	0.11	14.03	0.42	3.23	0	3764.31	3760.72	
C-B7-51	B7-24	J-B7-31	Circular	2	47.98	0.01	4.34	3763.72	3761.56	3761.72	3759.56	1.95	59.91	0.26	8.12	0.48	3.32	0	3762.38	3759.82	
C-B7-52	B7-63	J-B7-32	Circular	2	34.1	0.01	8.31	3762.11	3759.13	3760.11	3757.13	2.07	82.92	0.23	10.24	0.5	3.38	0	3760.79	3757.36	
C-B7-53	B7-25	J-B7-33	Circular	2	42.2	0.01	6.22	3759.87	3757.14	3757.87	3755.14	3.35	71.71	0.3	10.5	0.64	3.86	0	3758.75	3755.45	
C-B7-54	B7-64	J-B7-33	Circular	2	42.31	0.01	5.78	3759.66	3757.14	3757.66	3755.14	1.71	69.14	0.22	8.64	0.45	3.2	0	3758.27	3755.37	
C-B7-55	B7-65	J-B7-34	Circular	2	38.2	0.01	8	3756.83	3753.63	3754.83	3751.63	3.36	81.35	0.29	11.37	0.64	3.87	0	3755.78	3751.93	
C-B7-56	B7-27	J-B7-35	Circular	2	37.63	0.01	8.14	3756.36	3753.15	3754.36	3751.15	2.01	82.05	0.22	10.14	0.49	3.34	0	3755.03	3751.38	
C-B7-57	B7-66	J-B7-36	Circular	2	39.68	0.01	2.87	3755.34	3754.13	3753.34	3752.13	0.75	48.68	0.18	0.25	0.3	2.6	0	3753.93	3753.93	
C-B7-58	B7-28	J-B7-37	Circular	2	37.47	0.01	2.55	3752.24	3751.24	3750.24	3749.24	2.71	45.89	0.34	0.86	0.57	3.64	0	3753.87	3753.85	
C-B7-59	B7-75	J-B7-37	Circular	2	37.86	0.01	3.02	3754.3	3753.12	3752.3	3751.12	1.7	49.96	0.26	0.54	0.45	3.2	0	3753.86	3753.85	
C-B7-60	B7-74	J-B7-38	Circular	2	38.18	0.01	3.04	3754.75	3753.55	3752.75	3751.55	2	50.18	0.28	0.64	0.49	3.34	0	3753.88	3753.87	
C-B7-61	B7-36	J-B7-39	Circular	2	37.58	0.01	3.04	3755.24	3754.06	3753.24	3752.06	1.5	50.11	0.25	0.5	0.42	3.1	0	3753.89	3753.88	
C-B7-62	B7-35	J-B7-40	Circular	2	39	0.01	2.89	3756.75	3755.55	3754.75	3753.55	1.5	48.88	0.25	0.48	0.42	3.1	0	3755.63	3755.63	
C-B7-63	B7-73	J-B7-40	Circular	2	40.66	0.01	2.83	3756.75	3755.55	3754.75	3753.55	1.5	48.35	0.25	0.48	0.42	3.1	0	3755.63	3755.63	
C-B7-64	B7-34	J-B7-41	Circular	2	39.08	0.01	2.82	3759.68	3758.51	3757.68	3756.51	2.01	48.28	0.29	6.96	0.49	3.34	0	3758.34	3756.8	
C-B7-65	B7-72	J-B7-41	Circular	2	40.56	0.01	2.94	3759.74	3758.51	3757.74	3756.51	2.01	49.33	0.29	7.07	0.49	3.34	0	3758.4	3756.8	
C-B7-66	B7-33	J-B7-42	Circular	2	37.7	0.01	2.86	3767.53	3766.42	3766.53	3764.42	6.5	48.66	0.51	9.02	0.9	4.72	0	3766.82	3764.97	
C-B7-67	B7-71	J-B7-42	Circular	2	40.7	0.01	3.16	3767.74	3766.42	3766.74	3764.42	3.98	51.11	0.39	8.51	0.7	4.06	0	3766.75	3764.83	
C-B7-68	B7-70	J-B7-44	Circular	1	3.45	0.01	66.4	3770.95	3767.81	3769.95	3766.81	1.02	40.6	0.11	14	0.43	3.2	0	3770.55	3766.96	
C-B7-69	B7-69	J-B7-45	Circular	1	1.07	0.01	83.32	3772.34	3770.41	3771.34	3769.41	1.37	45.48	0.12	12.07	0.5	3.53	0	3772.05	3769.61	
C-B7-70	B7-68	J-B7-46	Circular	1	3.47	0.01	31.95	3775.94	3774.42	3774.94	3773.42	1.59	28.16	0.17	10.83	0.54	3.7	0	3775.72	3773.66	
C-B7-71	B7-30	J-B7-46	Circular	1	42.66	0.01	3.57	3775.99	3774.42	3774.99	3773.42	1.71	9.41	0.3	8.24	0.56	3.82	0	3775.81	3773.73	
C-B7-72	B7-29	J-B7-47	Circular	1	45.56	0.01	3.64	3779.67	3777.96	3778.67	3776.96	1.34	9.51	0.26	7.89	0.49	3.52	0	3779.37	3777.23	
C-B7-73	B7-67	J-B7-47	Circular	1	3.43	0.01	67.87	3781.14	3777.96	3780.14	3776.96	1.65	41.05	0.14	14.66	0.55	3.78	0	3780.94	3777.16	
C-B7-74	B7-26	J-B7-35	Circular	2	248.2	0.01	2.04	3758.25	3753.15	3756.25	3751.15	2.57	41.08	0.35	6.9	0.56	3.59	0	3757.11	3751.5	
C-B7-75	B7-78	B7-65	Circular	2	210.24	0.01	1.16	3759.31	3756.83	3757.31	3754.83	1.74	30.92	0.33	5.04	0.46	3.23	0	3758.02	3755.16	
C-B7-76	B7-77	B7-78	Circular	2	82.65	0.01	0.47	3759.72	3759.31	3757.72	3757.31	0.83	19.7	0.29	2.97	0.31	2.68	0	3758.14	3757.6	
C-B7-77	B7-80	B7-26	Circular	2	99.76	0.01	0.65	3758.93	3758.25	3756.93	3756.25	1.74	23.16	0.39	4.11	0.46	3.22	0	3757.59	3756.64	
C-B7-78	B7-82	B7-83	Circular	1.5	200.24	0.01	1.83	3768.97	3765.25	3767.47	3763.75	1.39	16.57	0.31	5.4	0.44	3.2	0	3768.08	3764.06	
C-B7-79	B7-83	B7-71	Circular	2	95.18	0.01	0.05	3765.75	3765.7	3763.75	3763.7	2.85	5.96	1.06	0.91	0.59	3.69	0	3766.76	3766.75	
C-B7-81	B7-81	B7-32	Circular	1.5	200.48	0.01	1.42	3770.15	3767.26	3768.65	3765.76	2.54	14.59	0.44	5.88	0.6	3.82	0	3769.49	3766.2	
C-B7-82	B7-32	B7-33	Circular	1.5	49.89	0.01	0.43	3767.26	3767.03	3765.76	3765.53	4.59	8.01	0.86	2.85	0.82	4.63	0	3767.13	3766.82	
T-B1-10	J-B1-9	O-B1-4	Circular	1.5	26.8	0.01	0.51	3752.61	3752.47	3751.11	3750.97	7.76	8.78	1.17	4.39	1.08	5.7	0.01	3754.33	3754.21	
T-B1-11	J-B1-10	O-B1-2	Circular	2	88.09	0.01	21.32	3752.78	3734	3750.78	3732	14.44	112.36	0.5	22.84	1.37	6.3	0.01	3753.63	3732.51	
T-B1-12	J-B1-11	J-B1-10	Circular	2	89.97	0.01	0.23	3752.99	3752.78	3750.99	3750.78	2.81	11.76	0.69	0.9	0.58	3.68	0	3754.7	3753.63	
T-B1-13	J-B1-12	J-B1-11	Circular	1	17.23	0.01	0.57	3752.09	3751.99	3751.09	3750.99	1.27	2.89	0.48	1.62	0.48	3.45	0.01	3754.77	3754.7	
T-B1-14	J-B1-13	O-B1-3	Circular	2	76.19	0.01	27.17	3754.7	3734	3752.7	3732	18.16	126.84	0.53	26.06	1.54	7.02	0.01	3754.52	3732.55	
T-B1-15	J-B1-14	J-B1-13	Circular	2	10.36	0.01	1.39	3754.85	3754.71	3752.85	3752.71	16.78	31.08	1.09	5.61	1.48	6.75	0.01	3755.98	3754.52	
T-B1-16	J-B1-15	J-B1-14	Circular	2	169.89	0.01	1.86	3758	3754.85	3756	3752.85	15.81	33.16	1.02	9.83	1.43	6.56	0.01	3761.28	3753.87	
T-B1-17	J-B1-16	J-B1-15	Circular	1.5	6.94	0.01	2.25	3757.66	3757.5	3756.16	3756	14.44	20.02	0.99	8.17	1.39	8.44	0.01	3762.83	3761.28	
T-B1-18	J-B1-17	J-B1-16	Circular	1.5	173.95	0.01	2.52	3762.04	3757.66	3760.54	3756.16	13.41	19.42	0.96	7.59	1.36	7.95	0.01	3767.28	3762.83	
T-B1-19	J-B1-18	J-B1-17	Circular	1.5	5.87	0.01	2.38	3762.18	3762.04	3760.68	3760.54	12.25	20.62	0.87	6.93	1.32	7.42	0.01	3767.56	3767.28	
T-B1-20	J-B1-19	J-B1-18	Circular	1.5	144.22	0.01	2.09	3765.19	3762.18	3763.69	3760.68	11.32	17.68	0.91	6.4	1.28	7.02	0.01	3769.48	3767.56	
T-B1-21	J-B1-20	J-B1-19	Circular	1.5	5.8	0.01	1.72	3765.29	3765.19	3763.79	3763.69	10.1	17.53	0.86	5.72	1.22	6.54	0.01	3770.12	3769.48	
T-B1-22	J-B1-21	J-B1-20	Circular	1.5	150.24	0.01	1.49	3767.53	3765.29	3766.03	3763.79	9.09	14.95	0.89	5.14	1.17	6.17	0.01	3771.74	3770.12	
T-B1-23	J-B1-22	J-B1-21	Circular	1.5	100.34	0.01	1.01	3768.55	3767.53	3767.05	3766.03	7.46	11.36	0.93	4.22	1.06	5.6	0.01	3772.65	3771.74	
T-B1-24	J-B1-23	J-B1-22	Circular	1.5	97.73	0.01	0.63	3769.16	3768.55	3767.66	3767.05	4.92	9.71	0.79	2.79	0.85	4.74	0	3773.01	3772.65	
T-B1-25	J-B1-24	J-B1-23	Circular	1.5	82.71																

TABLE D-1

Storm Sewer System B1 (Mainline Stations from 186+97.30 to 399+57.70)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
T-B5-11	B5-J-10	B5-J-9	Circular	2	215.21	0.01	1.5	3779.64	3776.4	3777.64	3774.4	20.26	32.33	1.2	6.45	1.62	7.45	0.01	3784.82	3778.85
T-B5-12	B5-J-11	B5-J-10	Circular	1.5	197.25	0.01	2.54	3784.15	3779.15	3782.65	3777.65	18.07	19.49	1.23	10.22	1.45	10.32	0.02	3795.54	3784.82
T-B5-13	B5-J-12	B5-J-11	Circular	1.5	197.21	0.01	3	3790.07	3784.16	3788.57	3782.66	15.82	21.2	1.02	8.95	1.42	9.13	0.02	3803.66	3795.54
T-B5-14	B5-J-13	B5-J-12	Circular	1.5	197.11	0.01	3	3795.99	3790.07	3794.49	3788.57	13.53	21.21	0.91	7.65	1.37	8	0.01	3807.83	3803.66
T-B5-15	B5-J-14	B5-J-13	Circular	1.5	200.71	0.01	3	3802.01	3795.98	3800.51	3794.48	11.14	19.58	0.85	6.3	1.28	6.95	0.01	3811.06	3807.83
T-B5-16	B5-J-15	B5-J-14	Circular	1.5	229.62	0.01	3	3808.89	3802.01	3807.39	3800.51	5.24	21.19	0.53	2.96	0.88	4.85	0	3811.6	3811.06
T-B5-17	B5-J-16	B5-J-15	Circular	1.5	35	0.01	3	3809.94	3808.89	3808.44	3807.39	4.79	19.57	0.53	2.71	0.84	4.69	0.01	3811.74	3811.6
T-B5-18	B5-J-17	B5-J-16	Circular	1.5	60.03	0.01	3.01	3811.75	3809.94	3810.25	3808.44	4.02	21.24	0.46	2.28	0.77	4.42	0	3811.89	3811.74
T-B5-19	B5-J-18	B5-J-17	Circular	1.5	99.95	0.01	2.99	3814.74	3811.75	3813.24	3810.25	2.72	19.55	0.39	7.37	0.63	3.89	0.01	3814.63	3810.64
T-B5-20	B5-J-19	O-B5-2	Circular	1.5	68.59	0.01	115.55	3820.75	3741.5	3819.25	3740	18.11	131.58	0.39	47.98	1.45	10.35	0.02	3824.83	3740.4
T-B5-21	B5-J-20	B5-J-19	Circular	1.5	200.09	0.01	3	3826.75	3820.75	3825.25	3819.25	15.66	21.2	1.01	8.86	1.42	9.05	0.02	3831.4	3824.83
T-B5-22	B5-J-21	B5-J-20	Circular	1.5	200.15	0.01	3	3832.75	3826.75	3831.25	3825.25	12.6	21.19	0.87	7.13	1.34	7.57	0.01	3835.34	3831.4
T-B5-23	B5-J-22	B5-J-21	Circular	1.5	249.22	0.01	3	3840.24	3832.75	3838.74	3831.25	8	19.58	0.7	9.97	1.1	5.78	0.01	3840.7	3831.95
T-B5-24	B5-J-23	B5-J-22	Circular	1.5	216.3	0.01	2.7	3846.08	3840.24	3844.58	3838.74	5.94	20.12	0.58	9.39	0.94	5.09	0.01	3846.34	3839.32
T-B5-25	B5-J-24	B5-J-23	Circular	1.5	196.46	0.01	1.91	3849.84	3846.08	3848.34	3844.58	4.04	15.63	0.54	7.03	0.77	4.42	0.01	3850.32	3845.12
T-B5-26	B5-J-25	B5-J-24	Circular	1	196.74	0.02	1.15	3851.61	3849.35	3850.61	3848.35	2.11	2.22	0.84	2.69	0.62	4.12	0.02	3852.85	3850.32
T-B5-27	B5-44	B5-J-7	Circular	1	3.41	0.01	44.34	3776.53	3774.46	3775.53	3773.46	1.89	33.18	0.17	12.49	0.59	3.95	0	3776.41	3773.71
T-B6-10	J-B6-10	J-B6-11	Circular	1.5	219.96	0.01	0.5	3845.21	3844.11	3843.71	3842.61	5.44	8.65	0.9	3.08	0.9	4.92	0.01	3845.53	3844.9
T-B6-11	J-B6-11	J-B6-12	Circular	1.5	30.07	0.01	0.5	3844.11	3843.96	3842.61	3842.46	6.64	8.67	1.03	3.76	1	5.32	0.01	3844.9	3844.47
T-B6-12	J-B6-12	J-B6-13	Circular	1.5	121.77	0.01	0.5	3843.96	3843.36	3842.46	3841.86	7.99	8.65	1.23	4.52	1.09	5.78	0.01	3844.47	3843.42
T-B6-13	J-B6-13	J-B6-14	Circular	2	80.11	0.01	0.5	3843.86	3843.45	3841.86	3841.45	8.78	18.65	1.01	5.51	1.06	5.21	0	3843.42	3842.47
T-B6-14	J-B6-14	J-B6-15	Circular	2	69.98	0.01	0.5	3843.45	3843.11	3841.45	3841.11	9.63	18.64	1.07	3.32	1.11	5.38	0	3842.96	3842.84
T-B6-15	J-B6-15	J-B6-16	Circular	2	129.99	0.01	0.5	3843.11	3842.45	3841.11	3840.45	10.38	18.64	1.11	3.31	1.15	5.53	0	3842.84	3842.6
T-B6-16	J-B6-16	J-B6-21	Circular	2	62.79	0.01	0.5	3842.45	3842.14	3840.45	3840.14	10.9	18.67	1.14	3.47	1.18	5.63	0	3842.6	3842.44
T-B6-17	J-B6-21	O-B6-2	Circular	1.5	59.56	0.01	38.62	3841.64	3818.64	3840.14	3817.14	10.9	76.08	0.4	27.6	1.27	6.86	0.01	3842.44	3817.55
T-B6-18	J-B6-17	J-B6-18	Circular	1.5	200.12	0.01	0.99	3840.93	3838.95	3839.43	3837.45	2.06	12.17	0.43	4.85	0.54	3.59	0	3840.66	3837.89
T-B6-19	J-B6-18	J-B6-19	Circular	1.5	199.29	0.01	1.73	3838.95	3835.5	3837.45	3834	3.95	16.11	0.53	7.14	0.76	4.39	0	3838.55	3834.53
T-B6-20	J-B6-19	J-B6-20	Circular	1.5	62.62	0.01	1.99	3835.5	3834.25	3834	3832.75	5.78	17.29	0.62	8.09	0.93	5.03	0.01	3835.34	3833.39
T-B6-21	J-B6-20	O-B6-3	Circular	1.5	62.67	0.01	74.59	3834.25	3787.5	3832.75	3786	5.78	105.72	0.25	30.21	0.93	5.03	0.01	3834.19	3786.25
T-B6-22	J-B6-22	J-B6-23	Circular	1.5	250.1	0.01	2	3831.51	3826.5	3830.01	3825	2	17.32	0.36	6.21	0.53	3.56	0	3831.47	3825.36
T-B6-23	J-B6-23	J-B6-24	Circular	1.5	249.97	0.01	1.99	3826.5	3821.53	3825	3820.03	4.37	17.27	0.53	7.73	0.8	4.55	0	3826.29	3820.57
T-B6-24	J-B6-24	J-B6-25	Circular	1.5	120.1	0.01	1.56	3821.53	3819.66	3820.03	3818.16	6.66	15.27	0.72	3.77	1	5.33	0.01	3822.34	3821.68
T-B6-25	J-B6-25	J-B6-26	Circular	1.5	129.96	0.01	0.92	3819.66	3818.46	3818.16	3816.96	7.16	11.77	0.89	4.05	1.04	5.5	0.01	3821.68	3821.1
T-B6-26	J-B6-26	J-B6-27	Circular	2	119.89	0.01	0.3	3818.96	3818.6	3816.96	3816.6	8.83	14.41	1.17	2.81	1.06	5.22	0	3821.1	3820.44
T-B6-27	J-B6-27	J-B6-28	Circular	2	42.71	0.01	0.24	3818.6	3818.5	3816.6	3816.5	11.03	12.88	1.53	3.51	1.19	5.66	0	3820.44	3819.88
T-B6-28	J-B6-28	J-B6-29	Circular	2	40.7	0.01	80.19	3818.64	3786	3816.64	3784	17.54	236.07	0.38	37.15	1.51	6.9	0.01	3819.88	3784.42
T-B6-29	J-B6-29	O-B6-4	Circular	3	19.04	0.01	5.25	3787	3786	3784	3783	17.53	213.78	0.6	10.88	1.34	5.74	0	3785.41	3783.84
T-B6-30	J-B6-30	J-B6-28	Circular	1.5	94.57	0.01	0.42	3818.54	3818.14	3817.04	3816.64	6.81	7.94	1.14	3.86	1.01	5.38	0.01	3820.37	3819.88
T-B6-31	J-B6-31	J-B6-30	Circular	1.5	100	0.01	0.5	3819.04	3818.54	3817.54	3817.04	5.29	8.66	0.89	3	0.89	4.87	0.01	3820.64	3820.37
T-B6-32	J-B6-32	J-B6-31	Circular	1.5	150.01	0.01	0.5	3819.78	3819.04	3818.28	3817.54	4.7	8.62	0.83	2.66	0.83	4.66	0	3821.03	3820.64
T-B6-33	J-B6-33	J-B6-32	Circular	1.5	201.49	0.01	0.5	3820.79	3819.78	3819.29	3818.28	2.67	8.68	0.59	1.51	0.62	3.87	0	3821.16	3821.03
T-B6-34	J-B6-34	J-B6-33	Circular	1.5	48.5	0.01	0.5	3821.04	3820.79	3819.54	3819.29	1.96	8.65	0.51	1.11	0.53	3.53	0	3821.2	3821.16
T-B6-35	J-B6-35	J-B6-34	Circular	1.5	101.46	0.01	0.5	3821.54	3821.04	3820.04	3819.54	0.75	8.66	0.31	0.42	0.33	2.65	0	3821.21	3821.2
T-B7-10	J-B7-10	J-B7-11	Circular	1.5	202.01	0.01	1	3805.35	3803.32	3803.85	3801.82	6.53	12.26	0.81	3.7	0.99	5.29	0.01	3805.93	3804.45
T-B7-11	J-B7-11	J-B7-12	Circular	1.5	151.05	0.01	1	3803.32	3801.81	3801.82	3800.31	8.25	12.24	0.95	7.01	1.11	5.87	0.01	3804.45	3801.26
T-B7-12	J-B7-12	J-B7-13	Circular	1.5	50.02	0.01	1	3801.81	3801.31	3800.31	3799.81	8.82	12.24	0.99	4.99	1.15	6.07	0.01	3802.05	3801.58
T-B7-13	J-B7-13	J-B7-14	Circular	1.5	199.98	0.01	1	3801.31	3799.31	3799.81	3797.81	9.67	12.24	1.06	5.47	1.2	6.38	0.01	3801.58	3799.97
T-B7-14	J-B7-14	J-B7-15	Circular	1.5	200.01	0.01	1	3799.31	3797.31	3797.81	3795.81	11.49	12.24	1.24	6.5	1.29	7.09	0.01	3799.97	3797.56
T-B7-15	J-B7-15	J-B7-16	Circular	2	199.9	0.01	1	3797.81	3795.81	3795.81	3793.81	13.03	26.37	1.03	7.91	1.3	6.03	0	3797.56	3794.85
T-B7-16	J-B7-16	J-B7-17	Circular	2	110.17	0.01	1.01	3795.82	3794.71	3793.82	3792.71	14.54	26.44	1.11	8.08	1.37	6.32	0.01	3795.44	3793.82
T-B7-17	J-B7-17	O-B7-2	Circular	2	45.64	0.01	80.43	3794.71	3758	3792.71	3791.71	14.54	283.71	0.32	39.67	1.37	6.32	0	3794.9	3756.35
T-B7-18	J-B7-18	J-B7-19	Circular	1.5	210.57	0.01	1.13	3793.81	3791.43	3792.31	3789.93	1.5	13.01	0.36	4.67	0.46	3.26	0	3793.62	3790.29
T-B7-19	J-B7-19	J-B7-20	Circular	1.5	212.21	0.01	1.7	3791.43	3787.83	3789.93	3786.33	3.49	15.94	0.5	6.86	0.71	4.22	0	3791.32	3786.83
T-B7-20	J-B7-20	J-B7-21	Circular	1.5	192.07	0.01	1.75	3787.83	3784.47	3786.33	3782.97	5.43	16.19	0.62	7.82	0.9	4.92	0.01	3788.24	3783.6
T-B7-21	J-B7-21	J-B7-22	Circular	1.5	202.05	0.01	1.75	3784.47	3780.94	3782.97	3779.44	7.14	16.19	0.73	8.4	1.03	5.49	0.01	3785.45	3780.17
T-B7-22	J-B7-22	J-B7-23	Circular	1.5	202.1	0.01	1.75	3780.93	3777.4	3779.43	3775.9	8.89	16.18	0.83	8.85	1.15	6.09	0.01	3782.47	3776.73
T-B7-23	J-B7-23	J-B7-24	Circular	1.5	169.96	0.01	1.74	3777.39	3774.43	3775.89	3772.93	10.59								

TABLE D-1

Storm Sewer System B1 (Mainlane Stations from 186+97.30 to 399+57.70)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
T-B7-41	J-B7-41	J-B7-40	Circular	3	300.03	0.01	0.98	3759.51	3756.56	3756.51	3753.56	21.39	71.1	1.18	8.31	1.49	6.12	0	3758.3	3754.74
T-B7-42	J-B7-42	J-B7-41	Circular	3	399.94	0.01	1.41	3765.15	3759.51	3762.15	3756.51	18.27	85.24	0.98	9.11	1.37	5.82	0	3764.8	3757.48
T-B7-43	J-B7-43	J-B7-42	Circular	3	4.83	0.01	1.97	3765.51	3765.42	3762.51	3762.42	8.21	100.6	0.6	1.36	0.9	4.58	0	3764.85	3764.8
T-B7-44	J-B7-44	J-B7-43	Circular	1.5	214.87	0.01	2	3768.3	3764.01	3766.8	3762.51	8.21	17.3	0.76	9.14	1.11	5.86	0.01	3768.11	3763.27
T-B7-45	J-B7-45	J-B7-44	Circular	1.5	130.05	0.01	2	3770.91	3768.31	3769.41	3766.81	7.32	17.31	0.71	8.84	1.05	5.55	0.01	3771.15	3767.52
T-B7-46	J-B7-46	J-B7-45	Circular	1.5	200.94	0.01	2	3774.92	3770.91	3773.42	3769.41	6.11	17.3	0.64	8.46	0.95	5.15	0.01	3775.24	3770.05
T-B7-47	J-B7-47	J-B7-46	Circular	1.5	242.83	0.01	1.46	3778.46	3774.92	3776.96	3773.42	2.98	14.78	0.47	6.21	0.66	4.01	0	3779.01	3773.9

TABLE D-2

Storm Sewer System A1-1 (Segment A - Mainline Stations from 399+57.70 to 412+22.94)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A1-1	J-A1-1	J-A1-2	Circular	1.50	51.85	0.01	0.93	3776.73	3776.25	3775.23	3774.75	1.25	11.78	0.34	0.87	0.42	3.08	0.00	3775.93	3775.88
TL-A1-2	J-A1-2	J-A1-3	Circular	1.50	75.69	0.01	0.79	3776.25	3775.65	3774.75	3774.15	2.50	10.90	0.51	4.74	0.60	3.80	0.00	3775.88	3774.66
TL-A1-3	J-A1-3	J-A1-4	Circular	1.50	79.70	0.01	1.42	3775.65	3774.52	3774.15	3773.02	3.24	14.58	0.50	6.27	0.69	4.12	0.00	3775.11	3773.52
TL-A1-4	J-A1-4	J-A1-5	Circular	1.50	60.30	0.01	1.49	3774.52	3773.62	3773.02	3772.12	3.69	14.95	0.53	6.54	0.73	4.29	0.00	3773.89	3772.65
TL-A1-5	J-A1-5	J-A1-6	Circular	1.50	9.32	0.01	1.50	3773.62	3773.48	3772.12	3771.98	4.01	15.00	0.55	2.68	0.77	4.41	0.00	3773.18	3773.16
TL-A1-6	J-A1-6	J-A1-7	Circular	1.50	90.38	0.01	1.50	3773.48	3772.12	3771.98	3770.62	5.13	15.02	0.63	7.24	0.87	4.81	0.00	3773.16	3771.25
TL-A1-7	J-A1-7	J-A1-8	Circular	1.50	99.66	0.01	1.50	3772.12	3770.63	3770.62	3769.13	5.65	14.97	0.67	7.41	0.92	4.99	0.01	3771.68	3769.80
TL-A1-8	J-A1-8	J-A1-9	Circular	1.50	147.76	0.01	1.50	3770.63	3768.41	3769.13	3766.91	7.10	15.00	0.76	7.90	1.03	5.48	0.01	3770.52	3767.67
TL-A1-9	J-A1-9	J-A1-10	Circular	1.50	52.00	0.01	1.50	3768.41	3767.63	3766.91	3766.13	7.84	14.99	0.81	7.82	1.09	5.73	0.01	3768.19	3766.96
TL-A1-10	J-A1-10	J-A1-11	Circular	1.50	92.59	0.01	1.50	3767.63	3766.24	3766.13	3764.74	8.85	15.00	0.87	8.25	1.15	6.08	0.01	3767.54	3765.62
TL-A1-11	J-A1-11	J-A1-12	Circular	1.50	107.78	0.01	1.49	3766.24	3764.63	3764.74	3763.13	9.57	14.96	0.91	8.41	1.19	6.34	0.01	3766.12	3764.05
TL-A1-12	J-A1-12	J-A1-13	Circular	1.50	50.06	0.01	1.50	3764.63	3763.88	3763.13	3762.38	10.57	14.98	0.98	5.98	1.25	6.72	0.01	3764.68	3764.11
TL-A1-13	J-A1-13	J-A1-14	Circular	1.50	149.52	0.01	1.50	3763.88	3761.63	3762.38	3760.13	11.37	15.02	1.03	6.43	1.29	7.04	0.01	3764.11	3762.44
TL-A1-14	J-A1-14	O-A1-1	Circular	1.50	52.13	0.01	44.94	3761.63	3738.20	3760.13	3736.70	13.12	82.07	0.42	29.87	1.36	7.81	0.01	3762.44	3737.15
P-A1-1	A1-1	J-A1-1	Circular	1.00	6.25	0.01	23.87	3780.23	3778.44	3779.23	3777.44	1.25	24.34	0.16	10.92	0.47	3.42	0.00	3779.90	3777.64
P-A1-2	A1-23	J-A1-2	Circular	1.00	33.75	0.01	6.17	3780.15	3777.99	3779.15	3776.99	1.26	10.31	0.24	8.25	0.47	3.45	0.01	3779.83	3777.24
P-A1-3	A1-2	J-A1-3	Circular	1.00	6.25	0.01	33.73	3779.67	3777.14	3778.67	3776.14	0.74	24.11	0.12	11.20	0.36	2.95	0.00	3779.17	3776.28
P-A1-4	A1-3	J-A1-4	Circular	1.00	6.25	0.01	68.00	3779.12	3774.02	3778.12	3773.02	0.44	34.24	0.08	13.41	0.28	2.48	0.00	3778.50	3773.11
P-A1-5	A1-4	J-A1-5	Circular	1.00	6.25	0.01	48.13	3778.72	3775.11	3777.72	3774.11	0.32	28.80	0.08	11.01	0.25	2.12	0.00	3778.05	3774.19
P-A1-6	A1-24	J-A1-6	Circular	1.00	33.75	0.01	7.66	3777.65	3774.97	3776.65	3773.97	1.13	11.49	0.22	8.69	0.45	3.30	0.00	3777.28	3774.19
P-A1-7	A1-5	J-A1-7	Circular	1.00	41.25	0.01	8.80	3777.36	3773.62	3776.36	3772.62	0.52	12.32	0.14	7.34	0.29	2.68	0.01	3776.77	3772.76
P-A1-8	A1-6	J-A1-8	Circular	1.00	41.25	0.01	8.02	3775.53	3772.12	3774.53	3771.12	0.50	11.76	0.15	7.07	0.29	2.60	0.00	3774.93	3771.27
P-A1-9	A1-25	J-A1-8	Circular	1.00	33.75	0.01	8.83	3775.21	3772.12	3774.21	3771.12	0.95	12.34	0.19	8.71	0.41	3.14	0.00	3774.79	3771.32
P-A1-10	A1-7	J-A1-9	Circular	1.00	41.25	0.01	7.48	3773.08	3769.90	3772.08	3768.90	0.74	11.36	0.18	7.73	0.36	2.96	0.01	3772.58	3769.08
P-A1-11	A1-26	J-A1-10	Circular	1.00	33.75	0.01	9.09	3772.30	3769.12	3771.30	3768.12	1.00	12.52	0.20	8.93	0.42	3.23	0.01	3771.89	3768.32
P-A1-12	A1-8	J-A1-11	Circular	1.00	41.25	0.01	7.51	3770.92	3767.73	3769.92	3766.73	0.72	11.37	0.18	7.68	0.36	2.89	0.00	3770.41	3766.91
P-A1-13	A1-27	J-A1-12	Circular	1.00	33.75	0.01	9.09	3769.30	3766.12	3768.30	3765.12	1.00	12.51	0.20	8.93	0.42	3.23	0.01	3768.89	3765.32
P-A1-14	A1-9	J-A1-13	Circular	1.00	41.25	0.01	7.48	3768.55	3765.37	3767.55	3764.37	0.79	11.36	0.19	7.83	0.37	2.98	0.00	3768.07	3764.56
P-A1-15	A1-10	J-A1-14	Circular	1.00	41.25	0.01	7.46	3766.30	3763.13	3765.30	3762.13	0.75	11.34	0.18	7.73	0.36	2.92	0.00	3765.80	3762.31
P-A1-16	A1-28	J-A1-14	Circular	1.00	33.75	0.01	9.09	3766.31	3763.13	3765.31	3762.13	1.00	12.52	0.20	8.93	0.42	3.23	0.01	3765.90	3762.33

TABLE D-3

Storm Sewer System A1-2 (Segment A - Mainline Stations from 412+22.94 to 424+72.88)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A1-15	J-A1-15	J-A1-16	Circular	1.50	49.70	0.01	1.49	3759.37	3758.63	3757.87	3757.13	0.75	14.94	0.24	4.17	0.33	2.65	0.00	3758.35	3757.37
TL-A1-16	J-A1-16	J-A1-17	Circular	1.50	100.20	0.01	1.50	3758.63	3757.13	3757.13	3755.63	1.76	14.98	0.36	5.38	0.50	3.43	0.00	3757.97	3755.99
TL-A1-17	J-A1-17	J-A1-18	Circular	1.50	99.70	0.01	1.50	3757.13	3755.63	3755.63	3754.13	2.51	15.01	0.43	5.96	0.60	3.80	0.00	3756.52	3754.56
TL-A1-18	J-A1-18	J-A1-19	Circular	1.50	50.62	0.01	1.50	3755.63	3754.87	3754.13	3753.37	3.51	15.00	0.51	6.42	0.72	4.22	0.00	3755.17	3753.89
TL-A1-19	J-A1-19	J-A1-20	Circular	1.50	149.02	0.01	1.50	3754.87	3752.64	3753.37	3751.14	4.26	14.97	0.57	6.91	0.79	4.51	0.00	3754.39	3751.71
TL-A1-20	J-A1-20	J-A1-21	Circular	1.50	3.82	0.01	1.57	3752.64	3752.58	3751.14	3751.08	5.27	15.34	0.63	3.52	0.88	4.86	0.01	3752.42	3752.26
TL-A1-21	J-A1-21	J-A1-22	Circular	1.50	146.89	0.01	1.50	3752.58	3750.37	3751.08	3748.87	6.03	15.01	0.69	7.59	0.95	5.12	0.01	3752.26	3749.56
TL-A1-22	J-A1-22	J-A1-23	Circular	1.50	49.60	0.01	1.49	3750.37	3749.63	3748.87	3748.13	6.77	14.95	0.74	3.83	1.01	5.37	0.01	3751.69	3751.38
TL-A1-23	J-A1-23	J-A1-24	Circular	1.50	99.88	0.01	1.50	3749.63	3748.13	3748.13	3746.63	7.77	15.00	0.80	4.40	1.08	5.71	0.01	3751.38	3750.72
TL-A1-24	J-A1-24	J-A1-25	Circular	1.50	90.18	0.01	1.45	3748.13	3746.82	3746.63	3745.32	8.53	14.75	0.86	4.83	1.13	5.97	0.01	3750.72	3750.06
TL-A1-25	J-A1-25	J-A1-26	Circular	1.50	60.27	0.01	1.14	3746.82	3746.13	3745.32	3744.63	9.48	13.10	1.00	5.37	1.19	6.31	0.01	3750.06	3749.46
TL-A1-26	J-A1-26	J-A1-27	Circular	1.50	85.26	0.01	0.79	3746.13	3745.46	3744.63	3743.96	10.23	10.85	1.25	5.79	1.23	6.59	0.01	3749.46	3748.61
TL-A1-27	J-A1-27	O-A1-2	Circular	1.50	51.33	0.01	46.66	3747.45	3723.50	3745.95	3722.00	11.39	83.62	0.39	29.46	1.29	7.05	0.01	3748.61	3722.41
P-A1-17	A1-11	J-A1-15	Circular	1.00	41.25	0.01	7.48	3764.05	3760.87	3763.05	3759.87	0.75	11.36	0.18	7.72	0.36	2.91	0.00	3763.55	3760.05
P-A1-18	A1-29	J-A1-16	Circular	1.00	33.75	0.01	11.43	3764.12	3760.12	3763.12	3759.12	1.00	16.84	0.17	10.92	0.42	3.23	0.00	3763.71	3759.29
P-A1-19	A1-12	J-A1-17	Circular	1.00	41.25	0.01	7.48	3761.80	3758.62	3760.80	3757.62	0.75	13.63	0.17	8.74	0.36	2.91	0.00	3761.30	3757.79
P-A1-20	A1-30	J-A1-18	Circular	1.00	33.75	0.01	9.09	3760.30	3757.12	3759.30	3756.12	1.00	15.02	0.18	10.00	0.42	3.23	0.00	3759.89	3756.31
P-A1-21	A1-13	J-A1-19	Circular	1.00	41.25	0.01	7.51	3759.55	3756.36	3758.55	3755.36	0.75	13.65	0.17	8.74	0.36	2.91	0.00	3759.05	3755.53
P-A1-22	A1-31	J-A1-20	Circular	1.00	33.75	0.01	9.09	3757.31	3754.13	3756.31	3753.13	1.00	15.02	0.18	9.99	0.42	3.23	0.00	3756.90	3753.32
P-A1-23	A1-14	J-A1-21	Circular	1.00	41.25	0.01	7.51	3757.26	3754.07	3756.26	3753.07	0.77	13.65	0.17	8.78	0.36	2.98	0.00	3756.77	3753.24
P-A1-24	A1-15	J-A1-22	Circular	1.00	41.25	0.01	7.48	3755.05	3751.87	3754.05	3750.87	0.74	13.63	0.16	8.65	0.36	2.95	0.00	3754.55	3751.04
P-A1-25	A1-32	J-A1-23	Circular	1.00	33.75	0.01	9.09	3754.30	3751.12	3753.30	3750.12	1.00	15.02	0.18	9.96	0.42	3.22	0.00	3753.89	3750.31
P-A1-26	A1-16	J-A1-24	Circular	1.00	41.25	0.01	7.48	3752.80	3749.62	3751.80	3748.62	0.75	13.63	0.17	8.77	0.36	2.92	0.00	3752.30	3748.79
P-A1-27	A1-33	J-A1-25	Circular	1.00	33.75	0.01	9.09	3751.49	3748.31	3750.49	3747.31	0.95	15.02	0.18	9.85	0.41	3.15	0.00	3751.07	3747.49
P-A1-28	A1-17	J-A1-26	Circular	1.00	41.25	0.01	7.51	3750.80	3747.61	3749.80	3746.61	0.75	13.65	0.17	8.76	0.36	2.92	0.00	3750.30	3746.78
P-A1-29	A1-34	J-A1-27	Circular	1.00	33.75	0.01	9.06	3750.12	3746.95	3749.12	3745.95	0.73	14.99	0.16	9.15	0.36	2.90	0.00	3749.61	3746.11
P-A1-30	A1-18	J-A1-27	Circular	1.00	41.25	0.01	7.48	3750.13	3746.95	3749.13	3745.95	0.43	13.63	0.13	7.43	0.28	2.40	0.00	3749.50	3746.08

TABLE D-4

Storm Sewer System A1-3 (Segment A - Mainline Stations from 424+72.88 to 431+61.00)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A1-28	J-A1-28	J-A1-29	Circular	1.50	44.07	0.01	2.16	3747.12	3746.17	3745.62	3744.67	2.01	17.97	0.35	1.14	0.54	3.56	0.00	3747.49	3746.88
TL-A1-29	J-A1-29	O-A1-3	Circular	1.50	45.73	0.01	49.88	3746.17	3723.36	3744.67	3721.86	8.03	86.45	0.32	27.60	1.10	5.79	0.01	3746.88	3722.19
TL-A1-30	J-A1-30	J-A1-29	Circular	1.50	44.87	0.01	2.56	3747.32	3746.17	3745.82	3744.67	6.02	19.60	0.59	3.41	0.95	5.11	0.01	3747.21	3746.88
TL-A1-31	J-A1-31	J-A1-30	Circular	1.50	200.12	0.01	0.49	3748.31	3747.32	3746.81	3745.82	4.01	8.61	0.75	4.56	0.77	4.42	0.00	3748.02	3746.57
TL-A1-32	J-A1-32	J-A1-31	Circular	1.50	199.73	0.01	0.50	3749.31	3748.31	3747.81	3746.81	2.01	8.66	0.51	3.77	0.53	3.56	0.00	3749.20	3747.32
P-A1-31	A1-19	J-A1-28	Circular	1.00	41.21	0.01	7.48	3749.80	3746.62	3748.80	3745.62	1.01	13.63	0.19	9.44	0.42	3.20	0.00	3749.39	3745.81
P-A1-32	A1-35	J-A1-28	Circular	1.00	31.25	0.01	9.78	3749.80	3746.62	3748.80	3745.62	1.01	15.58	0.18	10.18	0.42	3.20	0.00	3749.39	3745.80
P-A1-33	A1-20	J-A1-30	Circular	1.00	41.21	0.01	7.48	3750.00	3746.82	3749.00	3745.82	1.00	13.63	0.19	9.47	0.42	3.23	0.00	3749.59	3746.01
P-A1-34	A1-36	J-A1-30	Circular	1.00	33.79	0.01	9.07	3750.00	3746.82	3749.00	3745.82	1.00	15.00	0.18	9.98	0.42	3.23	0.00	3749.59	3746.01
P-A1-35	A1-21	J-A1-31	Circular	1.00	41.22	0.01	7.50	3751.00	3747.81	3750.00	3746.81	1.00	13.65	0.19	9.47	0.42	3.23	0.00	3750.59	3747.00
P-A1-36	A1-37	J-A1-31	Circular	1.00	33.79	0.01	9.10	3751.00	3747.81	3750.00	3746.81	1.00	15.03	0.18	9.98	0.42	3.23	0.00	3750.59	3747.00
P-A1-37	A1-22	J-A1-32	Circular	1.00	41.21	0.01	7.51	3752.00	3748.81	3751.00	3747.81	1.00	13.65	0.19	9.47	0.42	3.23	0.00	3751.59	3748.00
P-A1-38	A1-38	J-A1-32	Circular	1.00	33.79	0.01	9.10	3752.00	3748.81	3751.00	3747.81	1.00	15.03	0.18	9.98	0.42	3.23	0.00	3751.59	3748.00

TABLE D-5

Storm Sewer System A2-1 (Stations from 431+61.00 to 445+46.11)																			
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A2-1	J-A2-01	J-A2-02	Circular	1.50	199.69	0.50	3749.32	3748.32	3747.82	3746.82	2.01	8.66	0.51	1.14	0.53	3.56	0.00	3750.02	3749.38
TL-A2-2	J-A2-02	J-A2-03	Circular	1.50	200.10	0.50	3748.32	3747.32	3746.82	3745.82	4.01	8.65	0.75	2.27	0.77	4.42	0.00	3749.38	3748.99
TL-A2-3	J-A2-03	J-A2-04	Circular	1.50	193.61	0.50	3747.32	3746.35	3745.82	3744.85	6.02	8.66	0.97	3.41	0.95	5.11	0.01	3748.99	3748.20
TL-A2-4	J-A2-04	J-A2-05	Circular	1.50	145.45	1.27	3746.35	3744.50	3744.85	3743.00	7.97	13.81	0.86	4.51	1.09	5.77	0.01	3748.20	3747.08
TL-A2-5	J-A2-05	O-A2-1	Circular	1.50	87.14	26.41	3745.64	3722.63	3744.14	3721.13	13.90	62.90	0.50	26.26	1.38	8.18	0.01	3747.08	3721.64
TL-A2-6	J-A2-06	J-A2-05	Circular	1.50	73.48	1.36	3745.50	3744.50	3744.00	3743.00	4.47	14.28	0.60	2.53	0.81	4.58	0.00	3747.32	3747.08
TL-A2-7	J-A2-07	J-A2-06	Circular	1.50	87.01	0.23	3745.70	3745.50	3744.20	3744.00	2.90	5.87	0.77	1.64	0.65	3.97	0.00	3747.96	3747.32
P-A2-1	A2-1	J-A2-01	Circular	1.00	41.25	7.48	3752.00	3748.82	3751.00	3747.82	1.00	13.63	0.19	9.47	0.42	3.23	0.00	3751.59	3748.01
P-A2-2	A2-10	J-A2-01	Circular	1.00	33.75	9.09	3752.00	3748.82	3751.00	3747.82	1.00	15.02	0.18	9.98	0.42	3.23	0.00	3751.59	3748.01
P-A2-3	A2-2	J-A2-02	Circular	1.00	41.25	7.48	3751.00	3747.82	3750.00	3746.82	1.00	13.63	0.19	9.47	0.42	3.23	0.00	3750.59	3747.01
P-A2-4	A2-11	J-A2-02	Circular	1.00	33.75	9.09	3751.00	3747.82	3750.00	3746.82	1.00	15.02	0.18	9.98	0.42	3.23	0.00	3750.59	3747.01
P-A2-5	A2-3	J-A2-03	Circular	1.00	41.25	7.48	3750.00	3746.82	3749.00	3745.82	1.00	13.63	0.19	9.46	0.42	3.23	0.00	3749.59	3746.01
P-A2-6	A2-12	J-A2-03	Circular	1.00	33.75	9.09	3750.00	3746.82	3749.00	3745.82	1.00	15.02	0.18	9.98	0.42	3.23	0.00	3749.59	3746.01
P-A2-7	A2-4	J-A2-04	Circular	1.00	41.26	7.48	3749.03	3745.85	3748.03	3744.85	0.97	13.63	0.19	9.39	0.42	3.13	0.00	3748.61	3745.04
P-A2-8	A2-13	J-A2-04	Circular	1.00	33.75	9.09	3749.03	3745.85	3748.03	3744.85	0.98	15.02	0.18	9.94	0.42	3.14	0.00	3748.61	3745.03
P-A2-9	A2-5	J-A2-05	Circular	1.00	41.25	7.53	3748.34	3745.14	3747.34	3744.14	0.73	13.67	0.16	8.65	0.36	2.90	0.00	3747.83	3744.30
P-A2-10	A2-14	J-A2-05	Circular	1.00	33.75	9.09	3748.32	3745.14	3747.32	3744.14	0.73	15.02	0.16	9.17	0.36	2.91	0.00	3747.81	3744.30
P-A2-11	A2-6	J-A2-06	Circular	1.00	41.22	7.60	3748.23	3745.00	3747.23	3744.00	0.79	13.73	0.17	8.86	0.37	2.96	0.00	3747.75	3744.17
P-A2-12	A2-15	J-A2-06	Circular	1.00	33.79	9.07	3748.19	3745.01	3747.19	3744.01	0.79	15.00	0.16	9.36	0.37	2.97	0.00	3747.71	3744.17
P-A2-13	A2-7	J-A2-07	Circular	1.00	41.22	7.58	3748.42	3745.20	3747.42	3744.20	1.45	13.71	0.23	10.39	0.51	3.59	0.00	3748.16	3744.43
P-A2-14	A2-16	J-A2-07	Circular	1.00	33.79	9.07	3748.38	3745.20	3747.38	3744.20	1.45	15.00	0.22	10.87	0.51	3.60	0.00	3748.12	3744.43

TABLE D-6

Storm Sewer System A2-2 (Stations from 445+46.11 to 451+69.00)																			
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A2-8	J-A2-09	J-A2-08	Circular	1.50	234.80	1.50	3752.42	3748.90	3750.92	3747.40	3.89	14.99	0.54	6.77	0.76	4.37	0.00	3752.44	3747.94
TL-A2-9	J-A2-08	O-A2-2	Circular	1.50	80.27	28.42	3748.89	3726.08	3747.39	3724.58	6.25	65.25	0.33	21.92	0.97	5.19	0.01	3749.43	3724.91
P-A2-15	A2-8	J-A2-08	Circular	1.00	7.23	38.07	3751.63	3748.39	3750.63	3747.39	1.19	30.74	0.14	13.70	0.46	3.40	0.00	3751.28	3747.56
P-A2-16	A2-17	J-A2-08	Circular	1.00	33.79	6.79	3750.77	3748.39	3749.77	3747.39	1.17	12.98	0.21	9.31	0.46	3.36	0.00	3750.42	3747.61
P-A2-17	A2-9	J-A2-09	Circular	1.50	7.22	19.17	3754.05	3752.42	3752.55	3750.92	1.97	64.32	0.19	10.73	0.53	3.52	0.00	3753.28	3751.16
P-A2-18	A2-18	J-A2-09	Circular	1.00	33.79	4.51	3753.50	3751.92	3752.50	3750.92	1.93	10.58	0.30	8.95	0.59	3.98	0.00	3753.39	3751.24

TABLE D-7

Storm Sewer System A3																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-A3-6	MH-A3-3	O-A3	Circular RCP	4.00	112.94	0.012	0.50	3697.85	3697.27	3693.85	3693.27	50.69	118.37	1.91	4.03	2.14	7.42	0.003	3701.81	3700.00
P-A3-5	MH-A3-2	MH-A3-3	Circular RCP	3.00	325.28	0.012	0.50	3699.50	3697.85	3696.50	3694.85	37.64	54.96	1.91	5.32	2.00	7.53	0.004	3703.19	3701.81
P-A3-20	A3-15	MH-A3-3	Circular RCP	2.00	58.28	0.012	1.00	3705.62	3705.00	3703.62	3703.00	4.90	26.36	0.61	6.01	0.78	4.33	0.004	3704.71	3703.61
P-A3-21	A3-13	MH-A3-3	Circular RCP	2.00	257.97	0.012	0.38	3706.00	3705.00	3704.00	3703.00	8.11	16.27	1.04	5.07	1.01	5.07	0.004	3705.50	3704.01
P-A3-4	MH-A31	MH-A3-2	Circular RCP	3.00	314.79	0.012	0.50	3701.09	3699.50	3698.09	3696.50	25.11	54.96	1.49	3.55	1.62	6.46	0.004	3703.96	3703.19
P-A3-22	A3-14	MH-A3-2	Circular RCP	2.00	268.34	0.012	1.47	3708.00	3704.00	3706.00	3702.00	6.61	31.92	0.64	7.59	0.91	4.74	0.004	3707.32	3702.64
P-A3-23	A3-16	MH-A3-2	Circular RCP	2.00	22.34	0.012	3.91	3705.00	3704.00	3703.00	3702.00	5.30	52.13	0.45	8.70	0.81	4.43	0.004	3704.15	3702.50
PA3-3	A3-3	MH-A31	Circular RCP	3.00	265.66	0.012	0.50	3702.44	3701.09	3699.44	3698.09	15.77	54.96	1.14	2.23	1.27	5.55	0.003	3704.27	3703.96
P-A3-19	MH-A3-6	MH-A31	Circular RCP	2.00	42.05	0.012	1.51	3705.69	3705.00	3703.69	3703.00	9.96	32.37	0.79	8.00	1.13	5.45	0.004	3705.87	3703.84
PA3-2	A3-5	A3-3	Circular RCP	3.00	210.04	0.012	0.50	3703.52	3702.44	3700.52	3699.44	12.47	54.96	1.01	1.76	1.12	5.17	0.003	3705.54	3704.27
P-A3-7	A3-4	A3-3	Circular RCP	2.00	48.45	0.012	5.89	3710.00	3707.00	3708.00	3705.00	2.08	63.99	0.26	8.74	0.50	3.37	0.004	3708.68	3705.26
P-A3-15	A3-11	MH-A3-6	Circular RCP	2.00	8.49	0.012	7.93	3707.23	3706.19	3705.23	3704.19	3.19	74.25	0.29	8.83	0.62	3.82	0.004	3705.92	3704.54
P-A3-18	MH-A3-7	MH-A3-6	Circular RCP	2.00	154.82	0.012	1.25	3707.68	3705.69	3705.68	3703.69	7.19	29.50	0.70	7.34	0.95	4.87	0.004	3706.66	3704.39
PA3-1	A3-7	A3-5	Circular RCP	2.00	167.45	0.012	0.50	3704.38	3703.52	3702.38	3701.52	4.04	18.64	0.66	1.29	0.71	4.08	0.004	3705.62	3705.54
P-A3-8	A3-6	A3-5	Circular RCP	2.00	51.80	0.012	5.50	3707.00	3704.02	3705.00	3702.02	6.41	61.81	0.45	11.41	0.90	4.70	0.004	3706.30	3702.49
P-A3-14	A3-12	A3-11	Circular RCP	2.00	39.22	0.012	4.73	3720.00	3718.00	3718.00	3716.00	1.68	57.35	0.24	7.60	0.45	3.19	0.004	3718.61	3716.25
P-A3-17	MH-A3-5	MH-A3-7	Circular RCP	2.00	138.32	0.012	0.50	3708.40	3707.68	3706.40	3705.68	7.19	18.64	0.90	5.28	0.95	4.87	0.004	3707.86	3706.58
P-A3-9	A3-8	A3-7	Circular RCP	2.00	49.06	0.012	5.94	3707.44	3704.38	3705.44	3702.38	1.92	64.24	0.25	8.62	0.48	3.31	0.004	3706.09	3702.63
P-A3-13	Y-AE-2	MH-A3-5	Circular STEEL	1.25	46.55	0.01	1.99	3709.36	3708.40	3708.11	3707.15	7.19	10.62	0.79	8.44	1.07	6.42	0.01	3710.52	3707.96
P-A3-12	A3-10	Y-AE-2	Circular PVC	1.00	1.49	0.01	5.47	3736.15	3736.00	3735.15	3735.00	1.60	9.71	0.29	5.51	0.54	3.73	0.005	3735.94	3735.40
P-A3-16	Y-A3-1	Y-AE-2	Circular STEEL	1.00	323.03	0.01	4.37	3750.61	3736.49	3749.61	3735.49	4.14	8.68	0.51	10.34	0.86	5.77	0.011	3751.52	3736.00
P-A3-24	A3-9	Y-AE-2	Circular PVC	1.00	37.69	0.01	2.57	3737.00	3736.00	3736.00	3735.00	1.61	6.65	0.35	6.46	0.54	3.73	0.005	3736.79	3735.35
P-A3-10	A3-2	Y-A3-1	Circular PVC	1.00	1.48	0.01	9.16	3750.25	3750.00	3749.25	3749.00	2.10	12.57	0.29	2.68	0.62	4.12	0.006	3751.64	3751.52
P-A3-11	A3-1	Y-A3-1	Circular PVC	1.00	37.76	0.01	2.56	3751.00	3750.00	3750.00	3749.00	2.06	6.65	0.40	2.62	0.61	4.07	0.006	3751.74	3751.52

TABLE D-8

Storm Sewer System A4-1 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-A4-1	A4-3	J-A4-1	Circular	2.00	169.35	0.01	1.99	3704.65	3701.19	3702.65	3699.19	1.80	34.33	0.32	5.48	0.46	3.25	0.00	3703.28	3699.51
P-A4-2	J-A4-1	J-A4-2	Circular	2.00	165.45	0.01	1.45	3701.19	3698.73	3699.19	3696.73	1.80	29.32	0.35	4.90	0.46	3.25	0.00	3699.66	3697.08
P-A4-3	J-A4-2	A4-4	Circular	2.00	18.27	0.01	7.16	3698.73	3697.19	3696.73	3695.19	1.80	65.12	0.24	8.14	0.46	3.25	0.00	3697.41	3695.44
P-A4-4	A4-4	O-A4-1	Circular	2.00	23.42	0.01	79.64	3697.19	3677.55	3695.19	3675.55	3.81	217.17	0.19	24.16	0.68	4.01	0.00	3695.95	3675.75

TABLE D-9

Storm Sewer System A4-2 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A4-1	J-A4-3	J-A4-4	Circular	1.50	299.32	0.01	6.01	3748.79	3730.79	3747.29	3729.29	1.02	30.02	0.20	7.50	0.38	2.92	0.00	3747.85	3729.49
TL-A4-2	J-A4-4	J-A4-5	Circular	1.50	274.72	0.01	5.88	3730.79	3714.65	3729.29	3713.15	2.05	29.67	0.28	9.14	0.54	3.58	0.00	3730.40	3713.43
P-A4-5	A4-21	J-A4-3	Circular	1.00	10.21	0.01	20.52	3750.65	3748.29	3749.65	3747.29	1.02	22.57	0.15	11.39	0.43	3.21	0.00	3750.25	3747.46
P-A4-6	A4-22	J-A4-4	Circular	1.00	10.29	0.01	21.78	3732.81	3730.29	3731.81	3729.29	1.03	23.25	0.15	11.65	0.43	3.22	0.00	3732.41	3729.46
P-A4-7	J-A4-5	A4-23	Circular	2.00	6.46	0.01	10.00	3715.15	3714.25	3713.15	3712.25	2.05	76.95	0.23	8.05	0.50	3.36	0.00	3713.89	3712.52
P-A4-8	A4-23	J-A4-6	Circular	2.00	416.45	0.01	2.83	3714.25	3702.45	3712.25	3700.45	3.00	40.90	0.38	7.22	0.60	3.74	0.00	3713.17	3700.83
P-A4-9	A4-24	J-A4-6	Circular	2.00	20.26	0.01	7.21	3704.00	3702.45	3702.00	3700.45	1.43	65.34	0.21	7.72	0.41	3.07	0.00	3702.56	3700.67
P-A4-10	J-A4-6	O-A4-2	Circular	2.00	57.73	0.01	39.65	3702.45	3679.56	3700.45	3677.56	4.43	153.24	0.24	20.43	0.74	4.19	0.00	3701.59	3677.80

TABLE D-10

Storm Sewer System A4-3 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A4-4	J-A4-7	J-A4-8	Circular	1.50	357.16	0.01	2.37	3741.86	3733.41	3740.36	3731.91	1.03	18.83	0.25	5.42	0.38	2.95	0.00	3740.93	3732.16
TL-A4-5	J-A4-8	J-A4-9	Circular	1.50	404.23	0.01	4.93	3733.41	3713.47	3731.91	3711.97	2.26	27.19	0.30	8.83	0.57	3.69	0.00	3732.92	3712.27
P-A4-11	A4-30	J-A4-7	Circular	1.00	11.25	0.01	18.56	3743.68	3741.36	3742.68	3740.36	1.03	21.46	0.15	11.15	0.43	3.24	0.00	3743.28	3740.54
P-A4-12	A4-31	J-A4-8	Circular	1.00	11.25	0.01	18.48	3735.22	3732.91	3734.22	3731.91	1.23	21.42	0.17	11.45	0.47	3.40	0.00	3734.89	3732.10
P-A4-13	A4-32	J-A4-9	Circular	2.00	10.26	0.01	4.61	3714.50	3713.97	3712.50	3711.97	1.40	52.24	0.23	6.05	0.41	3.03	0.00	3713.05	3712.22
P-A4-14	J-A4-9	O-A4-3	Circular	2.00	62.35	0.01	40.00	3713.97	3689.03	3711.97	3687.03	3.65	153.91	0.22	19.37	0.67	3.96	0.00	3712.99	3687.25

TABLE D-11

Storm Sewer System A4-4 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
TL-A4-6	J-A4-10	J-A4-11	Circular	1.50	297.95	0.01	3.78	3741.77	3730.50	3740.27	3729.00	1.03	23.81	0.22	6.39	0.38	2.94	0.00	3740.83	3729.22
TL-A4-7	J-A4-11	J-A4-12	Circular	1.50	15.00	0.01	11.80	3730.50	3728.73	3729.00	3727.23	1.03	42.05	0.17	8.82	0.38	2.94	0.00	3729.56	3727.41
TL-A4-8	J-A4-12	J-A4-13	Circular	1.50	288.18	0.01	4.01	3728.73	3717.18	3727.23	3715.68	4.95	24.51	0.48	10.31	0.86	4.75	0.00	3728.78	3716.16
TL-A4-10	J-A4-16	J-A4-17	Circular	1.50	300.91	0.01	3.99	3750.26	3738.25	3748.76	3736.75	1.02	24.46	0.22	6.49	0.38	2.92	0.00	3749.32	3736.97
TL-A4-11	J-A4-17	J-A4-12	Circular	1.50	236.67	0.01	4.02	3738.25	3728.73	3736.75	3727.23	2.05	24.55	0.30	8.01	0.54	3.57	0.00	3737.64	3727.53
P-A4-15	A4-29	J-A4-10	Circular	1.00	10.22	0.01	20.08	3743.58	3741.27	3742.58	3740.27	1.03	22.33	0.15	11.28	0.43	3.23	0.00	3743.18	3740.44
P-A4-16	A4-28	J-A4-12	Circular	1.00	6.27	0.01	30.86	3730.55	3728.23	3729.55	3727.23	1.04	27.68	0.14	11.88	0.43	3.24	0.00	3730.16	3727.40
P-A4-17	A4-18	J-A4-12	Circular	1.50	18.75	0.01	11.58	3731.05	3728.73	3729.55	3727.23	0.83	41.66	0.15	8.54	0.34	2.78	0.00	3730.03	3727.39
P-A4-18	A4-27	J-A4-13	Circular	2.00	30.88	0.01	4.04	3719.00	3717.68	3717.00	3715.68	1.03	48.91	0.21	5.90	0.35	2.80	0.00	3717.47	3715.89
P-A4-19	A4-17	J-A4-13	Circular	2.00	18.80	0.01	16.74	3721.13	3717.68	3719.13	3715.68	1.02	99.58	0.15	9.59	0.35	2.78	0.00	3719.60	3715.83
P-A4-27	A4-20	J-A4-16	Circular	1.00	12.54	0.01	21.78	3752.77	3749.76	3751.77	3748.76	1.02	23.25	0.15	12.11	0.43	3.21	0.00	3752.37	3748.92
P-A4-28	A4-19	J-A4-17	Circular	1.00	8.72	0.01	23.29	3740.08	3737.75	3739.08	3736.75	1.03	24.05	0.15	11.51	0.43	3.24	0.00	3739.68	3736.92

TABLE D-12

Storm Sewer System A4-5 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-A4-20	J-A4-14	A4-26	Circular	2.00	26.96	0.01	1.69	3708.50	3708.00	3706.50	3706.00	1.06	31.68	0.26	4.40	0.36	2.80	0.00	3706.86	3706.26
P-A4-21	A4-16	J-A4-14	Circular	2.00	17.46	0.01	3.75	3709.25	3708.50	3707.25	3706.50	1.06	47.12	0.21	5.68	0.36	2.80	0.00	3707.73	3706.72

TABLE D-13

Storm Sewer System A4-6 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-A4-29	A4-12	J-A4-18	Circular	2.00	286.26	0.01	1.69	3707.52	3702.63	3705.52	3700.63	0.66	31.66	0.21	3.84	0.28	2.46	0.00	3705.89	3700.84
P-A4-30	A4-13	J-A4-18	Circular	2.00	102.21	0.01	0.73	3702.18	3701.40	3700.18	3699.40	0.87	20.77	0.29	3.10	0.32	2.70	0.00	3700.61	3699.69
P-A4-31	J-A4-18	A4-5	Circular	2.00	148.12	0.01	0.33	3701.40	3700.90	3699.40	3698.90	1.53	13.99	0.46	2.65	0.43	3.11	0.00	3700.07	3699.38
P-A4-32	A4-5	A4-33	Circular	3.00	30.29	0.01	4.41	3701.90	3700.40	3698.90	3697.40	2.01	150.64	0.25	6.95	0.44	3.12	0.00	3699.38	3697.65
P-A4-33	A4-33	O-A4-6	Circular	3.00	82.92	0.01	1.64	3700.40	3699.00	3697.40	3696.00	6.55	91.85	0.56	7.09	0.80	4.30	0.00	3699.07	3696.57
P-A4-34	A4-34	A4-33	Circular	2.00	69.26	0.01	1.47	3700.50	3699.41	3698.50	3697.41	3.90	29.48	0.51	6.15	0.69	4.04	0.00	3699.30	3697.92
P-A4-38	A4-6	A4-14	Circular	2.00	91.16	0.01	0.49	3701.77	3701.30	3699.77	3699.30	1.44	16.97	0.41	3.12	0.42	3.05	0.00	3700.33	3699.71
P-A4-39	A4-14	A4-34	Circular	2.00	235.01	0.01	0.31	3701.20	3700.46	3699.20	3698.46	2.99	13.51	0.66	2.40	0.60	3.75	0.00	3700.12	3699.30

TABLE D-14

Storm Sewer System A4-7 (Coles - Paisano Interchange)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-A4-22	A4-25	J-A4-15	Circular	2.00	26.96	0.01	3.36	3701.00	3700.01	3699.00	3698.01	1.54	44.58	0.26	0.49	0.43	3.12	0.00	3707.21	3707.20
P-A4-26	J-A4-15	O-A4-7	Circular	2.00	226.90	0.01	0.44	3708.00	3707.00	3706.00	3705.00	3.07	16.16	0.62	3.77	0.61	3.77	0.00	3707.20	3705.61

TABLE D-15

Storm Sewer System B Roads (Doniphan Extension)																				
LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK SHAPE	LINK RISE (FT)	LINK ACTUAL LENGTH (FT)	LINK MANNING'S n VALUE	LINK SLOPE (%)	LINK SOFFIT UPSTREAM (FT)	LINK SOFFIT DOWNSTREAM (FT)	LINK INVERT UPSTREAM (FT)	LINK INVERT DOWNSTREAM (FT)	LINK DISCHARGE (CFS)	LINK CAPACITY (CFS)	LINK UNIFORM DEPTH (FT)	LINK ACTUAL VELOCITY DOWNSTREAM (FPS)	LINK CRITICAL DEPTH (FT)	LINK CRITICAL VELOCITY (FPS)	LINK CRITICAL SLOPE (%)	LINK HGL UPSTREAM (FT)	LINK HGL DOWNSTREAM (FT)
P-D-1	D-1	D-2	Circular	2	68.68	0.012	0.50	3733.06	3732.72	3731.06	3730.72	1.62	18.64	0.41	1.14	0.44	3.15	0.00	3731.70	3731.64
P-D-2	D-2	D-4	Circular	2	218.00	0.012	0.50	3732.72	3731.63	3730.72	3729.63	3.00	18.64	0.57	4.12	0.60	3.75	0.00	3731.64	3730.19
P-D-3	D-5	D-6	Circular	2	64.12	0.012	0.50	3732.83	3732.51	3730.83	3730.51	1.54	18.64	0.40	1.12	0.43	3.11	0.00	3731.46	3731.41
P-D-4	D-6	D-4	Circular	2	176.52	0.012	0.50	3732.51	3731.63	3730.51	3729.63	2.89	18.64	0.55	1.07	0.59	3.70	0.00	3731.41	3731.23
P-D-5	D-4	D-3	Circular	2	64.37	0.012	0.50	3731.63	3731.30	3729.63	3729.30	7.13	18.67	0.90	5.24	0.95	4.86	0.00	3731.23	3730.20
P-D-6	D-3	O-D-1	Circular	2	60.50	0.012	0.50	3731.30	3731.00	3729.30	3729.00	8.72	18.64	1.01	5.52	1.05	5.20	0.00	3730.43	3730.01
P-D-7	D-7	D-8	Circular	2	31.14	0.012	0.50	3732.31	3732.16	3730.31	3730.16	3.99	18.64	0.65	1.97	0.70	4.07	0.00	3731.51	3731.39
P-D-8	D-8	MH-D-1	Circular	2	361.45	0.012	0.50	3732.16	3730.35	3730.16	3728.35	5.28	18.64	0.76	4.86	0.81	4.42	0.00	3731.39	3729.11
P-D-9	MH-D-1	O-D-2	Circular	2	70.16	0.012	0.50	3730.35	3730.00	3728.35	3728.00	5.28	18.64	0.76	4.84	0.81	4.42	0.00	3729.56	3728.76
P-D-10	D-9	D-7	Circular	2	381.63	0.012	0.50	3734.22	3732.31	3732.22	3730.31	2.96	18.64	0.56	4.14	0.60	3.73	0.00	3733.14	3730.87
P-D-11	D-10	D-9	Circular	2	11.52	0.012	0.50	3734.28	3734.22	3732.28	3732.22	1.87	18.64	0.44	1.34	0.47	3.29	0.00	3733.18	3733.14
P-D-12	D-11	D-10	Circular	2	71.34	0.012	0.50	3734.64	3734.28	3732.64	3732.28	1.77	18.64	0.43	3.54	0.46	3.24	0.00	3733.26	3732.71
P-D-13	D-12	MH-D-2	Circular	2	17.49	0.012	0.50	3737.04	3736.96	3735.04	3734.96	0.50	18.64	0.24	2.44	0.25	2.24	0.00	3735.37	3735.19
P-D-14	MH-D-2	D-13	Circular	2	144.97	0.012	0.50	3736.96	3736.23	3734.96	3734.23	0.50	18.64	0.24	2.44	0.25	2.24	0.00	3735.31	3734.47
P-D-15	D-15	D-13	Circular	2	35.66	0.012	0.50	3736.41	3736.23	3734.41	3734.23	0.49	18.64	0.23	0.63	0.23	2.37	0.01	3734.83	3734.82
P-D-16	D-13	D-14	Circular	2	96.09	0.012	0.50	3736.23	3735.75	3734.23	3733.75	1.30	18.64	0.37	3.24	0.39	2.99	0.00	3734.82	3734.12
P-D-17	D-14	D-16	Circular	2	36.52	0.012	0.50	3735.75	3735.57	3733.75	3733.57	2.31	18.64	0.49	3.83	0.53	3.48	0.00	3734.56	3734.06
P-D-18	D-16	O-D-3	Circular	2	113.66	0.012	0.50	3735.57	3735.00	3733.57	3733.00	3.43	18.64	0.60	4.31	0.65	3.90	0.00	3734.28	3733.60
P-D-19	D-20	MH-D-3	Circular	2	31.35	0.012	0.50	3736.89	3736.73	3734.89	3734.73	0.64	18.64	0.26	0.42	0.28	2.40	0.00	3735.73	3735.72
P-D-20	D-19	MH-D-3	Circular	2	36.35	0.012	0.50	3736.92	3736.73	3734.92	3734.73	2.30	18.64	0.49	1.49	0.53	3.48	0.00	3735.78	3735.72
P-D-21	MH-D-3	D-18	Circular	2	130.87	0.012	0.50	3736.73	3736.08	3734.73	3734.08	2.92	18.64	0.56	4.08	0.60	3.72	0.00	3735.72	3734.64
P-D-22	D-18	D-17	Circular	2	60.22	0.012	0.50	3736.08	3735.78	3734.08	3733.78	3.16	18.64	0.58	1.88	0.62	3.80	0.00	3734.81	3734.83
P-D-23	D-17	O-D-4	Circular	2	155.89	0.012	0.50	3735.78	3735.00	3733.78	3733.00	4.45	18.64	0.69	4.64	0.74	4.20	0.00	3734.83	3733.69
P-D-24	D-25	D-26	Circular	2	71.69	0.012	0.50	3736.92	3736.56	3734.92	3734.56	1.44	18.64	0.39	1.05	0.42	3.05	0.00	3735.52	3735.47
P-D-25	D-26	D-24	Circular	2	171.03	0.012	0.50	3736.56	3735.71	3734.56	3733.71	2.85	18.64	0.55	4.05	0.59	3.69	0.00	3735.47	3734.26
P-D-26	D-22	D-21	Circular	2	71.69	0.012	0.50	3736.44	3736.08	3734.44	3734.08	0.72	18.64	0.28	0.38	0.29	2.57	0.00	3735.25	3735.24
P-D-27	D-21	D-24	Circular	2	75.22	0.012	0.50	3736.08	3735.71	3734.08	3733.71	1.40	18.64	0.39	0.55	0.41	3.05	0.00	3735.24	3735.23
P-D-28	D-23	D-24	Circular	2	71.69	0.012	0.50	3736.07	3735.71	3734.07	3733.71	1.19	18.64	0.36	0.47	0.38	2.90	0.00	3735.24	3735.23
P-D-29	D-24	O-D-5	Circular	2	141.55	0.012	0.50	3735.71	3735.00	3733.71	3733.00	6.41	18.64	0.84	5.09	0.90	4.70	0.00	3735.23	3733.84
P-D-30	D-29	D-27	Circular	2	57.26	0.012	0.50	3736.05	3735.76	3734.05	3733.76	1.52	18.64	0.40	3.40	0.43	3.09	0.00	3734.62	3734.16
P-D-31	D-27	D-28	Circular	2	38.09	0.012	0.50	3735.76	3735.57	3733.76	3733.57	1.80	18.64	0.43	1.54	0.46	3.24	0.00	3734.47	3734.36
P-D-32	D-28	O-D-6	Circular	2	113.74	0.012	0.50	3735.57	3735.00	3733.57	3733.00	4.07	18.64	0.66	4.50	0.71	4.09	0.00	3734.36	3733.66
P-D-33	D-42	D-43	Circular	2	69.90	0.012	0.50	3737.29	3736.94	3735.29	3734.94	0.60	18.64	0.26	2.57	0.26	2.44	0.00	3735.65	3735.20
P-D-34	D-43	MH-D-4	Circular	2	76.69	0.012	0.50	3736.94	3736.56	3734.94	3734.56	0.84	18.64	0.30	0.68	0.32	2.65	0.00	3735.39	3735.40
P-D-35	MH-D-4	D-44	Circular	2	20.34	0.012	0.50	3736.56	3736.46	3734.56	3734.46	0.84	18.64	0.30	0.59	0.32	2.65	0.00	3735.40	3735.39
P-D-36	D-44	O-D-7	Circular	2	91.87	0.012	0.50	3736.46	3736.00	3734.46	3734.00	5.03	18.64	0.74	4.75	0.79	4.36	0.00	3735.39	3734.74
P-D-37	D-34	D-33	Circular	1	75.00	0.010	1.31	3758.98	3758.00	3757.98	3757.00	1.76	5.70	0.40	6.00	0.57	3.86	0.00	3758.82	3757.40
P-D-38	D-33	MH-D-5	Circular	1	211.55	0.010	2.14	3758.00	3753.47	3757.00	3752.47	2.00	7.29	0.37	7.52	0.60	4.04	0.00	3757.70	3752.84
P-D-39	MH-D-5	D-32	Circular	2	20.34	0.012	0.50	3736.82	3736.71	3734.82	3734.71	3.48	18.64	0.61	2.57	0.65	3.91	0.00	3735.84	3735.61
P-D-40	D-30	MH-D-5	Circular	2	189.40	0.012	0.50	3737.76	3736.82	3735.76	3734.82	1.59	18.64	0.41	3.43	0.44	3.14	0.00	3736.35	3735.23
P-D-41	D-32	O-D-8	Circular	2	142.67	0.012	0.50	3736.71	3736.00	3734.71	3734.00	5.37	18.64	0.76	4.88	0.82	4.45	0.00	3735.61	3734.76
P-D-42	D-31	MH-D-6	Circular	2	254.93	0.012	0.50	3736.49	3735.21	3734.49	3733.21	3.26	18.64	0.59	4.25	0.63	3.84	0.00	3735.35	3733.80
P-D-43	D-35	D-36	Circular	2	69.91	0.012	0.50	3735.69	3735.34	3733.69	3733.34	2.11	18.64	0.47	1.07	0.50	3.40	0.00	3734.58	3734.54
P-D-44	D-36	MH-D-6	Circular	2	25.18	0.012	0.50	3735.34	3735.21	3733.34	3733.21	2.34	18.64	0.50	1.08	0.53	3.49	0.00	3734.54	3734.51
P-D-45	MH-D-6	O-D-9	Circular	2	242.48	0.012	0.50	3735.21	3734.00	3733.21	3732.00	5.40	18.64	0.77	4.85	0.82	4.46	0.00	3734.51	3732.77
P-D-46	D-39	D-40	Circular	2	81.47	0.012	0.50	3734.78	3734.37	3732.78	3732.37	2.43	18.64	0.51	1.10	0.54	3.53	0.00	3733.74	3733.69
P-D-47	D-37	D-40	Circular	2	26.52	0.012	0.50	3734.50	3734.37	3732.50	3732.37	1.95	18.64	0.46	0.89	0.49	3.31	0.00	3733.71	3733.69
P-D-48	D-38	D-41	Circular	2	26.52	0.012	0.50	3734.71	3734.58	3732.71	3732.58	0.17	18.64	0.14	0.09	0.12	2.04	0.01	3733.70	3733.69
P-D-49	D-41	D-40	Circular	2	41.38	0.012	0.50	3734.58	3734.37	3732.58	3732.37	0.33	18.64	0.19	0.15	0.19	2.22	0.01	3733.69	3733.69
P-D-50	D-40	O-D-10	Circular	2	74.00	0.012	0.50	3734.37	3734.00	3732.37	3732.00	4.90	18.64	0.73	4.74	0.78	4.32	0.00	3733.69	3732.73