

STORM SEWER HYDRAULICS - 15 YEAR 20 MINUTE																				
LineNo.	LineID	LineSize (in)	FlowRate (cfs)	InvertDn (ft)	InvertUp (ft)	LineLength (ft)	LineSlope (%)	VelAve (ft/s)	Gnd/Rim Elev Dn (ft)	Gnd/Rim Elev Up (ft)	HGLDn (ft)	HGLUp (ft)	Rim-Hw (ft)	CriticalDepth (ft)						
1	FE 5- OS 6	36	33.79	491.00	491.82	81.50	1.01	5.44	494.42	505.92	494.00	494.01	11.33	1.89	494.36	494.59	0.228	66.90	0.013	---
2	FE 10- AI 11	12	3.83	501.00	502.44	143.53	1.00	3.90	502.52	507.70	502.25	503.23	4.47	0.79	502.40	503.57	0.730	6.47	0.013	3.55
3	AI 11- MH 12	12	1.19	502.64	503.30	65.91	1.00	2.92	507.70	508.40	503.23	503.76	4.64	0.66	503.41	503.94	0.000	3.56	0.013	4.64
4	MH 12- AI 13	12	1.19	503.50	504.27	77.50	0.99	3.72	508.40	510.50	503.90	504.73	5.77	0.46	504.08	504.91	0.000	3.55	0.013	4.85
5	AI 13- AI 14	12	0.98	504.47	506.70	89.06	2.50	4.28	510.50	512.00	504.75	507.12	4.88	0.42	504.50	507.27	0.000	5.64	0.013	3.96
6	AI 11- DCI 15	12	2.20	502.64	507.91	97.50	5.41	4.38	507.70	512.96	503.23	508.54	4.42	0.63	503.50	508.82	0.000	8.28	0.013	3.50
7	FE 18- AI 19	18	12.20	501.60	501.31	30.84	1.01	6.90	502.79	508.00	502.50	502.92	4.68	1.32	503.24	503.66	0.416	10.53	0.013	3.76
8	AI 19- CI 20	18	11.22	501.51	508.43	155.00	4.60	6.67	508.00	517.64	503.32	509.71	7.93	1.28	503.95	510.47	1.664	22.52	0.013	7.01
9	CI 20- CI 21	18	10.00	508.63	508.99	37.70	1.01	6.64	517.64	517.35	509.80	510.21	7.14	1.22	510.05	510.87	0.000	10.53	0.013	6.22
10	CI 21- AI 22	18	7.84	509.19	510.19	100.00	1.00	5.94	517.35	516.00	510.21	511.27	4.73	1.08	510.72	511.79	0.000	10.50	0.013	3.81
11	AI 22- AI 23	12	3.80	510.39	518.22	156.60	5.00	5.32	516.00	523.80	511.27	519.05	4.75	0.83	511.24	519.51	0.000	7.96	0.013	3.83
12	AI 23- AI 24	12	1.77	518.42	526.25	156.60	5.00	3.63	523.80	531.00	519.05	526.82	4.18	0.57	519.28	527.05	0.000	7.96	0.013	3.26
13	FE 27- AI 28	21	10.53	502.00	502.99	59.00	1.00	5.03	509.25	515.38	503.75	503.76	1.20	1.71	504.05	504.35	0.303	15.84	0.013	14.28
14	AI 28- AI 29	21	10.33	513.29	515.50	110.68	2.00	7.51	519.30	525.58	516.70	517.21	8.37	1.16	517.21	517.73	0.000	15.84	0.013	7.45
15	CI 29- CI 30	21	9.79	515.70	516.05	35.00	1.00	6.34	525.58	523.70	517.21	517.21	2.28	1.09	517.21	517.21	0.000	15.84	0.013	4.36
16	CI 30- AI 31	21	8.60	516.25	517.33	108.00	1.00	5.90	525.58	532.00	517.21	517.33	8.37	1.16	517.21	517.73	0.000	15.84	0.013	7.45
17	AI 31- AI 32	15	7.72	517.53	525.78	103.10	8.00	7.51	523.70	532.00	517.33	525.78	8.37	1.16	517.21	517.73	0.000	15.84	0.013	4.20
18	AI 32- DCI 33	15	6.84	525.98	527.60	81.08	2.00	6.72	532.00	536.70	525.98	528.65	8.05	1.05	527.48	529.25	0.000	9.13	0.013	7.13
19	DCI 33- DCI 34	15	6.94	527.80	528.50	35.00	2.00	6.54	536.70	536.70	528.65	529.51	7.19	1.01	529.20	530.06	0.000	9.13	0.013	6.27
20	DCI 34- AI 35	15	5.09	528.70	530.80	105.00	2.00	6.65	536.70	535.80	529.51	531.71	4.09	0.91	529.95	532.15	0.000	9.13	0.013	3.17
21	FE 38- MH 39	15	3.23	501.00	501.44	43.50	1.01	3.13	502.25	512.50	502.25	502.29	10.85	0.72	502.36	502.50	0.138	6.49	0.013	10.18
22	MH 39- CI 40	15	3.23	507.80	509.43	108.60	1.50	3.25	512.50	519.00	508.36	510.15	8.18	0.72	508.36	510.45	0.000	7.91	0.013	7.93
23	CI 40- CI 41	12	2.15	509.63	509.98	35.00	1.00	4.45	519.00	519.00	510.15	510.61	8.39	0.63	510.46	510.87	0.000	3.56	0.013	7.47
24	CI 41- AI 42	12	1.07	510.18	511.30	112.50	1.00	3.31	519.00	516.30	510.61	511.73	4.57	0.43	510.77	511.90	0.000	3.55	0.013	3.65
25	FE 43- MH 44	30	20.31	485.00	488.78	78.04	1.00	4.14	487.88	504.50	490.60	490.79	13.67	1.53	490.87	491.06	0.191	41.00	0.013	13.67
26	MH 44- MH 45	30	20.31	497.00	498.41	220.00	0.60	6.66	504.50	513.50	498.54	499.94	14.36	1.53	499.19	500.59	0.000	31.77	0.013	14.36
27	MH 45- MH 46	30	20.31	498.61	499.75	190.00	0.60	6.66	514.30	513.50	500.06	501.28	12.22	1.53	500.71	501.93	0.000	31.77	0.013	12.22
28	MH 46- AI 47	24	17.20	499.00	500.28	55.00	0.60	6.36	513.50	506.50	501.56	501.89	3.98	1.49	502.19	502.52	0.330	17.52	0.013	3.06
29	MH 46- AI 48	15	3.11	499.95	507.81	78.61	10.00	3.43	513.50	512.90	501.28	508.52	4.38	0.71	501.38	508.81	0.132	20.42	0.013	3.46
30	FE 50- MH 51	18	5.69	479.50	479.90	40.00	1.00	3.57	480.75	490.00	481.00	481.05	8.84	0.92	481.00	481.29	0.126	10.50	0.013	8.84
31	MH 51- OS 52	18	5.69	480.10	485.99	53.50	11.01	4.63	490.00	496.92	481.00	486.91	10.12	0.92	481.55	491.00	0.000	34.94	0.013	5.20
32	FE 54- DCI 55	18	5.09	491.00	491.35	70.00	0.50	2.88	492.79	493.82	493.70	493.76	6.04	0.04	493.70	493.66	0.164	7.43	0.013	5.20
33	DCI 55- DCI 56	18	4.31	491.25	491.73	35.00	0.51	2.44	499.82	497.80	493.80	493.94	3.77	0.60	493.86	494.00	0.140	4.57	0.013	2.85
34	DCI 56- AI 57	15	2.29	491.92	492.48	115.88	0.50	1.87	499.82	500.20	493.80	493.94	3.77	0.60	493.86	494.00	0.140	4.57	0.013	3.84
35	AI 57- AI 58	12	1.90	492.68	496.65	106.40	3.80	3.19	497.80	507.80	493.80	493.94	3.77	0.60	493.86	494.00	0.140	4.57	0.013	2.85
36	AI 58- AI 59	12	1.32	496.85	503.11	156.60	1.00	4.10	502.00	508.20	493.80	493.94	3.77	0.60	493.86	494.00	0.140	4.57	0.013	3.68
37	FE 61- MH 61A	36	30.83	481.00	481.58	29.11	1.99	5.93	482.25	491.61	483.50	483.88	8.82	1.80	484.13	485.59	0.000	94.14	0.013	8.82
38	MH 61A- CI 61B	36	30.83	481.78	483.04	62.90	2.00	7.51	491.20	491.61	483.38	484.84	6.77	1.80	484.13	485.59	0.000	94.40	0.013	5.85
39	CI 61B- CI 61C	36	30.30	483.24	483.94	35.00	2.00	7.42	491.61	491.61	484.84	485.72	5.89	1.78	485.88	486.47	0.000	94.32	0.013	4.97
40	CI 61C- FE 62	36	29.04	484.14	486.42	33.48	6.81	7.25	491.61	489.83	485.72	488.16	1.62	1.74	486.44	488.89	0.000	174.04	0.013	---
41	FE 65- OS 66	48	99.00	480.00	486.53	52.52	1.01	8.10	490.50	496.42	490.00	490.12	5.27	3.01	490.47	491.20	0.235	144.00	0.013	---
42	FE 70- DCI 71	15	3.29	491.00	491.78	78.05	1.00	2.68	492.52	498.21	492.82	493.01	5.05	0.73	492.93	493.13	0.194	6.46	0.013	4.13
43	DCI 71- DCI 72	15	1.84	491.98	492.89	35.00	2.60	2.58	498.21	498.21	493.16	493.43	4.78	0.54	493.37	493.63	0.000	10.41	0.013	3.86
44	FE 75- MH 76	30	18.43	491.00	492.20	240.13	0.50	4.44	493.88	500.20	493.50	493.92	5.15	1.45	493.72	494.33	0.606	28.99	0.013	4.15
45	MH 76- MH 77	30	18.43	493.40	494.07	334.69	0.50	5.79	498.20	498.20	494.05	495.52	4.08	1.45	494.06	496.13	0.000	28.97	0.013	5.08
46	MH 77- AI 78	30	16.48	494.27	495.13	172.98	0.50	6.01	500.60	501.60	495.61	496.49	5.11	1.36	496.16	497.04	0.000	28.92	0.013	4.19
47	AI 78- AI 79	21	14.47	495.33	499.98	211.35	2.20	7.75	501.60	507.10	496.49	501.39	5.71	1.41	497.25	502.14	0.000	73.50	0.013	4.79
48	AI 79- AI 80	18	11.34	500.18	505.06	180.60	2.70	7.23	507.10	511.50	501.39	506.34	5.16	1.28	506.16	507.11	0.000	17.26	0.013	4.24
49	AI 80- AI 81	12	3.87	505.26	528.74	301.00	7.80	5.23	511.50	545.80	506.34	529.58	4.62	0.84	506.72	530.05	3.499	9.95	0.013	3.70
50	AI 81- CI 82	12	1.59	528.94	539.92	207.10	5.30	3.37	534.20	545.80	529.58	540.45	5.35	0.53	529.79	540.67	0.000	8.20	0.013	4.43
51	CI 82- CI 83	12	1.24	540.12	540.82	35.00	2.00	4.36	545.80	545.80	540.45	541.49	4.51	0.47	540.64	541.47	0.000	5.04	0.013	3.59
52	MH 77- DCI 84	12	2.15	494.27	505.35	138.52	8.00	3.45	500.60	511.21	505.38	506.26	4.95	0.36	506.11	506.40	0.000	3.56	0.013	4.03
53	DCI 84- CI 85	12	0.76	505.35	505.90	35.00	1.00	2.66	511.21	516.17	505.38	506.26	4.95	0.36	506.11	506.40	0.000	3.56	0.013	4.03
54	AI 79- CI 86	12	1.54	500.18	510.31	112.50	9.00	2.82	507.10	516.17	510.31	511.17	5.00	0.32	510.95	511.29	0.000	3.56	0.013	4.03
55	CI 86- CI 87	12	0.61	510.85	510.85	35.00	2.70	7.19	516.17	516.17	510.85	511.17	5.00	0.32	510.95	511.29	0.000	3.56	0.013	4.03
56	AI 89- DCI 88	15	5.05	505.26	514.49	112.50	8.20	5.43	511.50	525.74	506.34	515.47	10.27	0.98	510.95	515.97	0.000	18.50	0.013	9.35
57	DCI 88- CI 89	15	4.31	514.68	515.03															