

# Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	10.000	-90.000	MH	0.00	0.00	0.00	0.0	975.05	0.50	975.10	54	Cir	0.024	1.00	986.50	
2	1	50.000	0.000	Hdwl	37.00	0.00	0.00	20.0	975.60	1.90	976.55	48	Cir	0.024	1.00	986.50	
3	1	32.700	-90.000	Curb	0.00	0.31	0.66	5.0	976.25	4.53	977.73	48	Cir	0.024	1.50	986.30	
4	3	338.000	0.000	Curb	0.00	0.14	0.64	5.0	977.88	0.96	981.11	48	Cir	0.024	1.50	992.00	
5	4	246.000	0.000	Curb	0.00	0.07	0.64	5.0	981.26	1.10	983.97	48	Cir	0.024	1.50	997.70	
6	5	439.000	0.000	Curb	0.00	0.13	0.63	5.2	984.72	0.73	987.91	42	Cir	0.024	1.50	997.40	
7	6	148.800	0.000	Curb	0.00	0.30	0.50	5.0	988.06	1.10	989.70	42	Cir	0.024	1.50	996.70	
8	7	146.000	0.000	Curb	0.00	0.17	0.64	5.0	990.35	1.03	991.86	36	Cir	0.024	1.50	998.20	
9	8	368.500	0.000	Curb	0.00	0.15	0.64	5.0	992.86	1.72	999.20	24	Cir	0.024	1.50	1003.80	
10	9	320.000	0.000	Curb	0.00	0.08	0.64	5.0	999.20	3.00	1008.79	24	Cir	0.024	1.50	1014.40	
11	10	175.000	0.000	Curb	0.00	0.13	0.64	5.0	1009.44	3.75	1016.00	18	Cir	0.024	1.50	1020.10	
12	11	250.000	0.000	Curb	0.00	0.25	0.64	5.0	1016.00	3.16	1023.90	18	Cir	0.024	1.50	1028.40	
13	12	500.000	0.000	Curb	0.00	0.16	0.63	5.0	1024.05	1.77	1032.90	18	Cir	0.024	1.50	1037.50	
14	3	44.000	90.000	Curb	0.00	0.37	0.46	5.0	981.38	2.00	982.26	18	Cir	0.013	1.00	986.30	
15	4	44.000	90.000	Curb	0.00	0.47	0.46	9.5	984.55	2.70	985.74	18	Cir	0.013	1.50	992.00	
16	15	92.000	-90.000	Curb	0.00	0.39	0.72	5.0	985.89	3.82	989.40	18	Cir	0.024	1.00	994.10	
17	5	44.000	90.000	Curb	0.00	1.95	0.33	15.0	987.57	5.00	989.77	18	Cir	0.013	1.00	997.70	
18	6	44.000	90.000	Curb	0.00	2.48	0.35	15.0	990.61	3.48	992.14	18	Cir	0.013	1.00	997.40	
19	7	44.000	90.000	Curb	0.00	1.30	0.50	15.0	990.70	2.14	991.64	30	Cir	0.013	1.00	996.70	
20	8	44.000	90.000	Curb	0.00	2.00	0.35	5.0	991.86	2.34	992.89	36	Cir	0.013	1.13	998.20	
21	9	44.000	90.000	Curb	0.00	1.28	0.43	15.0	999.70	1.00	1000.14	18	Cir	0.013	1.00	1003.80	
22	10	44.000	90.000	Curb	0.00	0.32	0.64	5.0	1010.09	1.25	1010.64	18	Cir	0.013	1.00	1014.40	
23	11	44.000	90.000	Curb	0.00	0.64	0.46	9.2	1016.00	1.00	1016.44	18	Cir	0.013	1.00	1020.10	
Hydraflow G												Number of lines: 29				Date: 4/10/2018	

# Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data							Line ID	
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)		Inlet/ Rim El (ft)
24	12	44.000	90.000	Curb	0.00	0.66	0.64	5.0	1024.30	1.00	1024.74	18	Cir	0.013	1.00	1028.40	
25	13	44.000	90.000	Curb	0.00	0.42	0.63	5.0	1033.05	1.80	1033.84	18	Cir	0.013	1.00	1037.50	
26	1	161.300	90.000	Curb	0.00	0.10	0.50	5.0	978.76	2.60	982.96	24	Cir	0.024	1.50	988.70	
27	26	44.000	-90.000	Curb	0.00	1.15	0.50	15.0	983.56	2.66	984.73	18	Cir	0.013	1.50	988.70	
28	20	90.000	-45.000	Hdwl	12.00	0.00	0.00	20.0	993.04	2.73	995.50	36	Cir	0.024	1.00	999.50	
29	27	75.000	90.000	Curb	0.00	1.15	0.50	15.0	984.98	2.27	986.68	18	Cir	0.024	1.00	990.68	
Hydraflow G												Number of lines: 29				Date: 4/10/2018	

# Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
1		83.86	54	Cir	10.000	975.05	975.10	0.500	978.84	978.90	0.53	979.43	End	Manhole
2		37.00	48	Cir	50.000	975.60	976.55	1.900	979.43	978.36	0.70	978.36	1	OpenHeadwall
3		41.47	48	Cir	32.700	976.25	977.73	4.526	979.43	979.65	n/a	979.65 j	1	Curb-Horiz
4		40.71	48	Cir	338.000	977.88	981.11	0.956	979.96	983.19	0.88	984.08	3	Curb-Horiz
5		38.64	48	Cir	246.000	981.26	983.97	1.102	984.08	985.82	n/a	985.82 j	4	Curb-Horiz
6		36.26	42	Cir	439.000	984.72	987.91	0.727	987.05	990.24	0.66	990.90	5	Curb-Horiz
7		31.76	42	Cir	148.800	988.06	989.70	1.102	990.90	991.60	0.83	992.43	6	Curb-Horiz
8		27.86	36	Cir	146.000	990.35	991.86	1.034	992.43	993.78	0.80	994.57	7	Curb-Horiz
9		13.40	24	Cir	368.500	992.86	999.20	1.720	994.57	1000.52	n/a	1000.52	8	Curb-Horiz
10		10.46	24	Cir	320.000	999.20	1008.79	2.997	1000.52	1009.95	n/a	1009.95 j	9	Curb-Horiz
11		8.91	18	Cir	175.000	1009.44	1016.00	3.749	1010.46	1017.15	0.87	1017.15	10	Curb-Horiz
12		6.58	18	Cir	250.000	1016.00	1023.90	3.160	1017.15	1024.89	n/a	1024.89 j	11	Curb-Horiz
13		3.00	18	Cir	500.000	1024.05	1032.90	1.770	1024.89	1033.56	n/a	1033.56	12	Curb-Horiz
14		1.43	18	Cir	44.000	981.38	982.26	2.000	981.69	982.71	0.16	982.71	3	Curb-Horiz
15		3.55	18	Cir	44.000	984.55	985.74	2.705	985.01	986.46	n/a	986.46	4	Curb-Horiz
16		2.36	18	Cir	92.000	985.89	989.40	3.815	986.46	989.98	0.22	989.98	15	Curb-Horiz
17		3.91	18	Cir	44.000	987.57	989.77	5.000	987.98	990.53	n/a	990.53	5	Curb-Horiz
18		5.27	18	Cir	44.000	990.61	992.14	3.477	991.14	993.02	0.37	993.02	6	Curb-Horiz
19		3.95	30	Cir	44.000	990.70	991.64	2.136	992.43	992.29	n/a	992.29	7	Curb-Horiz
20		15.68	36	Cir	44.000	991.86	992.89	2.341	994.57	994.15	0.54	994.15	8	Curb-Horiz
21		3.34	18	Cir	44.000	999.70	1000.14	1.000	1000.52	1000.84	n/a	1000.84 j	9	Curb-Horiz
22		1.72	18	Cir	44.000	1010.09	1010.64	1.250	1010.48	1011.13	0.18	1011.13	10	Curb-Horiz
23		2.13	18	Cir	44.000	1016.00	1016.44	1.000	1017.15	1016.99	0.20	1016.99	11	Curb-Horiz
24		3.55	18	Cir	44.000	1024.30	1024.74	1.000	1024.90	1025.46	n/a	1025.46	12	Curb-Horiz

Hydraflow G

Number of lines: 29

Run Date: 4/10/2018

NOTES: Return period = 25 Yrs. ; j - Line contains hyd. jump.

# Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
25		2.22	18	Cir	44.000	1033.05	1033.84	1.795	1033.56	1034.40	n/a	1034.40	13	Curb-Horiz
26		7.14	24	Cir	161.300	978.76	982.96	2.604	979.59	983.91	n/a	983.91	1	Curb-Horiz
27		6.87	18	Cir	44.000	983.56	984.73	2.659	984.22	985.74	0.68	985.74	26	Curb-Horiz
28		12.00	36	Cir	90.000	993.04	995.50	2.733	994.15	996.60	n/a	996.60 j	20	OpenHeadwall
29		3.49	18	Cir	75.000	984.98	986.68	2.267	985.74	987.39	n/a	987.39 j	27	Curb-Horiz

<b>Hydraflow G</b>	Number of lines: 29	Run Date: 4/10/2018
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NOTES: Return period = 25 Yrs. ; j - Line contains hyd. jump.

# Inlet Report

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter						Inlet			By Line No	
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)		Depr (in)
1	153+65	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
2	153+65 end-sectio	37.00*	0.00	37.00	0.00	Hdwl	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	153+31 Rt	1.72	0.00	1.72	0.00	Curb	4.0	8.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.16	5.04	0.33	5.04	2.0	Off
4	149+93 Rt	0.75	0.00	0.75	0.00	Curb	4.0	8.00	0.00	0.00	0.00	0.023	2.00	0.050	0.020	0.013	0.14	4.11	0.17	0.00	2.0	3
5	147+47 Rt	0.38	0.00	0.38	0.00	Curb	4.0	5.00	0.00	0.00	0.00	0.023	2.00	0.050	0.020	0.013	0.11	2.61	0.18	0.20	2.0	4
6	143+08 Rt	0.68	0.00	0.66	0.03	Curb	4.0	5.00	0.00	0.00	0.00	0.013	2.00	0.050	0.020	0.013	0.15	4.56	0.21	0.92	2.0	7
7	141+58 Rt	1.26	0.05	1.31	0.00	Curb	4.0	8.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.13	3.71	0.30	3.71	2.0	Off
8	140+13 Rt	0.91	0.00	0.89	0.03	Curb	4.0	5.00	0.00	0.00	0.00	0.006	2.00	0.050	0.020	0.013	0.19	6.41	0.22	1.08	2.0	7
9	136+45 Rt	0.81	0.02	0.83	0.00	Curb	4.0	8.00	0.00	0.00	0.00	0.031	2.00	0.050	0.020	0.013	0.14	4.01	0.17	0.16	2.0	8
10	133+25 Rt	0.43	0.00	0.41	0.02	Curb	4.0	5.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.11	2.51	0.20	0.68	2.0	9
11	131+50 Rt	0.70	0.11	0.81	0.00	Curb	4.0	8.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.14	3.86	0.18	0.26	2.0	10
12	128+00 Rt	1.34	0.00	1.23	0.11	Curb	4.0	8.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.16	5.11	0.23	1.34	2.0	11
13	124+00 Rt	0.85	0.00	0.85	0.00	Curb	4.0	8.00	0.00	0.00	0.00	0.014	2.00	0.050	0.020	0.013	0.16	5.01	0.17	0.00	2.0	12
14	153+31 Lt	1.43	2.47	3.90	0.00	Curb	4.0	11.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.24	8.89	0.40	8.89	2.0	Off
15	149+93 Lt	1.55	1.20	2.07	0.67	Curb	4.0	8.00	0.00	0.00	0.00	0.023	2.00	0.050	0.020	0.013	0.22	7.76	0.30	3.86	2.0	14
16	148+95 Lt	2.36	1.37	2.53	1.20	Curb	4.0	8.00	0.00	0.00	0.00	0.020	2.00	0.050	0.020	0.013	0.24	9.11	0.34	5.46	2.0	15
17	147+47 Lt	3.91	0.00	2.54	1.37	Curb	4.0	8.00	0.00	0.00	0.00	0.023	2.00	0.050	0.020	0.013	0.24	9.01	0.34	5.66	2.0	16
18	143+08 Lt	5.27	0.00	3.30	1.97	Curb	4.0	8.00	0.00	0.00	0.00	0.013	2.00	0.050	0.020	0.013	0.29	11.45	0.38	7.61	2.0	19
19	141+58 Lt	3.95	3.74	7.69	0.00	Curb	4.0	8.00	0.00	0.00	0.00	Sag	2.00	0.050	0.020	0.000	0.44	10.48	0.60	10.48	2.0	Off
20	140+13 Lt	5.88	1.77	5.88	1.77	Curb	4.0	11.00	0.00	0.00	0.00	0.006	2.00	0.050	0.020	0.013	0.37	15.45	0.40	8.56	2.0	19
21	136+45 Lt	3.34	0.96	2.54	1.77	Curb	4.0	8.00	0.00	0.00	0.00	0.031	2.00	0.050	0.020	0.013	0.24	8.81	0.35	5.96	2.0	20
22	133+25 Lt	1.72	1.32	2.08	0.96	Curb	4.0	8.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.21	7.51	0.31	4.26	2.0	21
23	131+50 Lt	2.13	1.47	2.28	1.32	Curb	4.0	8.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.22	8.06	0.33	5.06	2.0	22

Hydraflow G Number of lines: 29 Run Date: 4/10/2018

NOTES: Inlet N-Values = 0.016; Intensity = 102.84 / (Inlet time + 15.80) ^ 0.83; Return period = 25 Yrs. ; \* Indicates Known Q added. All curb inlets are Horiz throat.

# Inlet Report

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter						Inlet			Byp Line No	
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)		Depr (in)
24	128+00 Lt	3.55	0.28	2.36	1.47	Curb	4.0	8.00	0.00	0.00	0.00	0.033	2.00	0.050	0.020	0.013	0.23	8.26	0.33	5.36	2.0	23
25	124+00 Lt	2.22	0.00	1.94	0.28	Curb	4.0	8.00	0.00	0.00	0.00	0.014	2.00	0.050	0.020	0.013	0.22	7.86	0.28	2.56	2.0	24
26	155+25 Rt	0.42	0.00	0.42	0.00	Curb	4.0	5.00	0.00	0.00	0.00	0.022	2.00	0.050	0.020	0.013	0.12	2.91	0.18	0.34	2.0	3
27	155+25 Lt	3.49	1.10	2.79	1.80	Curb	4.0	8.00	0.00	0.00	0.00	0.022	2.00	0.050	0.020	0.013	0.25	9.71	0.36	6.46	2.0	14
28	140+00 Lt	12.00*	0.00	12.00	0.00	Hdwl	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
29	156+00 Lt	3.49	0.00	2.40	1.10	Curb	4.0	8.00	0.00	0.00	0.00	0.022	2.00	0.050	0.020	0.013	0.23	8.66	0.33	5.11	2.0	27

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