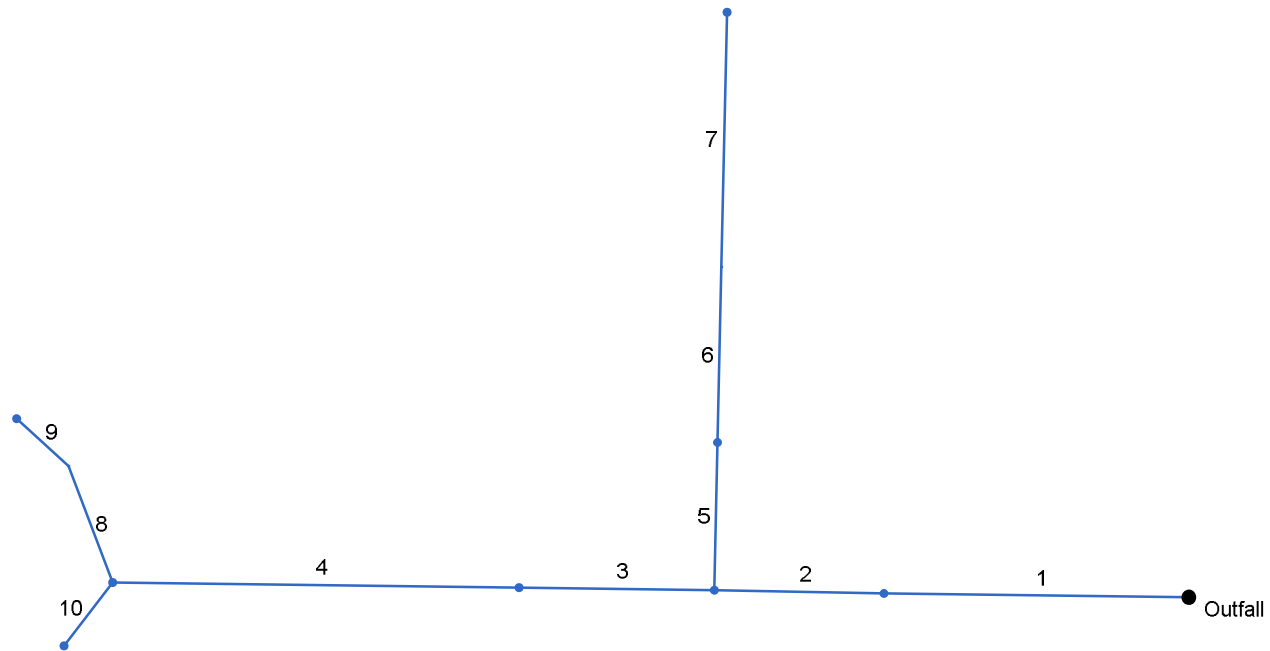


1941



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	190.300	-179.285	MH	5.40	0.00	0.00	0.0	14.10	1.94	17.80	30	Cir	0.013	0.15	28.10	
2	1	105.900	0.510	MH	0.00	0.00	0.00	0.0	20.10	1.32	21.50	30	Cir	0.013	1.00	30.79	
3	2	122.000	-0.490	MH	0.00	0.00	0.00	0.0	21.60	1.31	23.20	30	Cir	0.013	0.15	33.80	
4	3	253.700	-0.010	MH	0.00	0.00	0.00	0.0	23.30	1.26	26.50	30	Cir	0.013	0.94	39.30	
5	2	92.500	90.000	Genr	3.20	0.00	0.00	0.0	24.40	1.08	25.40	24	Cir	0.013	0.50	32.00	
6	5	110.000	0.000	Genr	4.20	0.00	0.00	0.0	25.40	1.00	26.50	24	Cir	0.013	0.50	32.00	
7	6	160.000	0.000	Genr	14.30	0.00	0.00	0.0	26.50	1.00	28.10	24	Cir	0.013	1.00	32.00	
8	4	78.000	68.602	None	0.00	0.00	0.00	0.0	29.20	1.03	30.00	18	Cir	0.013	0.51	38.50	
9	8	44.000	-26.903	Genr	9.70	0.00	0.00	0.0	30.00	1.02	30.45	18	Cir	0.013	1.00	36.00	
10	4	50.000	-53.522	Genr	8.10	0.00	0.00	0.0	34.00	1.00	34.50	18	Cir	0.013	1.00	40.20	
1941												Number of lines: 10				Date: 4/23/2013	

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		44.90	30	Cir	190.300	14.10	17.80	1.944	18.20*	20.48*	0.20	20.68	End	Manhole
2		39.50	30	Cir	105.900	20.10	21.50	1.322	21.85	23.62	1.24	23.62	1	Manhole
3		17.80	30	Cir	122.000	21.60	23.20	1.311	23.62	24.63	n/a	24.63 j	2	Manhole
4		17.80	30	Cir	253.700	23.30	26.50	1.261	24.63	27.93	n/a	27.93	3	Manhole
5		21.70	24	Cir	92.500	24.40	25.40	1.081	25.92	27.06	0.47	27.06	2	Generic
6		18.50	24	Cir	110.000	25.40	26.50	1.000	27.06	28.05	n/a	28.05 j	5	Generic
7		14.30	24	Cir	160.000	26.50	28.10	1.000	28.05	29.46	n/a	29.46 j	6	Generic
8		9.70	18	Cir	78.000	29.20	30.00	1.026	30.33	31.20	n/a	31.20	4	None
9		9.70	18	Cir	44.000	30.00	30.45	1.023	31.20	31.65	n/a	31.65	8	Generic
10		8.10	18	Cir	50.000	34.00	34.50	1.000	34.99	35.60	0.53	35.60	4	Generic
1941									Number of lines: 10				Run Date: 4/23/2013	
NOTES: Return period = 2 Yrs. ; *Surcharged (HGL above crown). ; j - Line contains hyd. jump.														

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (l)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total		Incr	Total	Inlet	Syst					Size	Slope	Dn	Up	Dn	Up	Dn	Up	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	190.300	0.00	0.00	0.00	0.00	0.00	0.0	2.3	0.0	44.90	57.19	9.15	30	1.94	14.10	17.80	18.20	20.48	22.80	28.10	
2	1	105.900	0.00	0.00	0.00	0.00	0.00	0.0	2.1	0.0	39.50	47.15	9.84	30	1.32	20.10	21.50	21.85	23.62	28.10	30.79	
3	2	122.000	0.00	0.00	0.00	0.00	0.00	0.0	1.5	0.0	17.80	46.97	5.17	30	1.31	21.60	23.20	23.62	24.63	30.79	33.80	
4	3	253.700	0.00	0.00	0.00	0.00	0.00	0.0	0.4	0.0	17.80	46.06	6.44	30	1.26	23.30	26.50	24.63	27.93	33.80	39.30	
5	2	92.500	0.00	0.00	0.00	0.00	0.00	0.0	0.9	0.0	21.70	23.52	8.13	24	1.08	24.40	25.40	25.92	27.06	30.79	32.00	
6	5	110.000	0.00	0.00	0.00	0.00	0.00	0.0	0.6	0.0	18.50	22.62	6.86	24	1.00	25.40	26.50	27.06	28.05	32.00	32.00	
7	6	160.000	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	14.30	22.62	5.88	24	1.00	26.50	28.10	28.05	29.46	32.00	32.00	
8	4	78.000	0.00	0.00	0.00	0.00	0.00	0.0	0.1	0.0	9.70	10.63	6.61	18	1.03	29.20	30.00	30.33	31.20	39.30	38.50	
9	8	44.000	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	9.70	10.62	6.40	18	1.02	30.00	30.45	31.20	31.65	38.50	36.00	
10	4	50.000	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	8.10	10.50	6.19	18	1.00	34.00	34.50	34.99	35.60	39.30	40.20	
1941																Number of lines: 10				Run Date: 4/23/2013		
NOTES:Intensity = 69.87 / (Inlet time + 13.10) ^ 0.87 ; Return period =Yrs. 2 ; c = cir e = ellip b = box																						