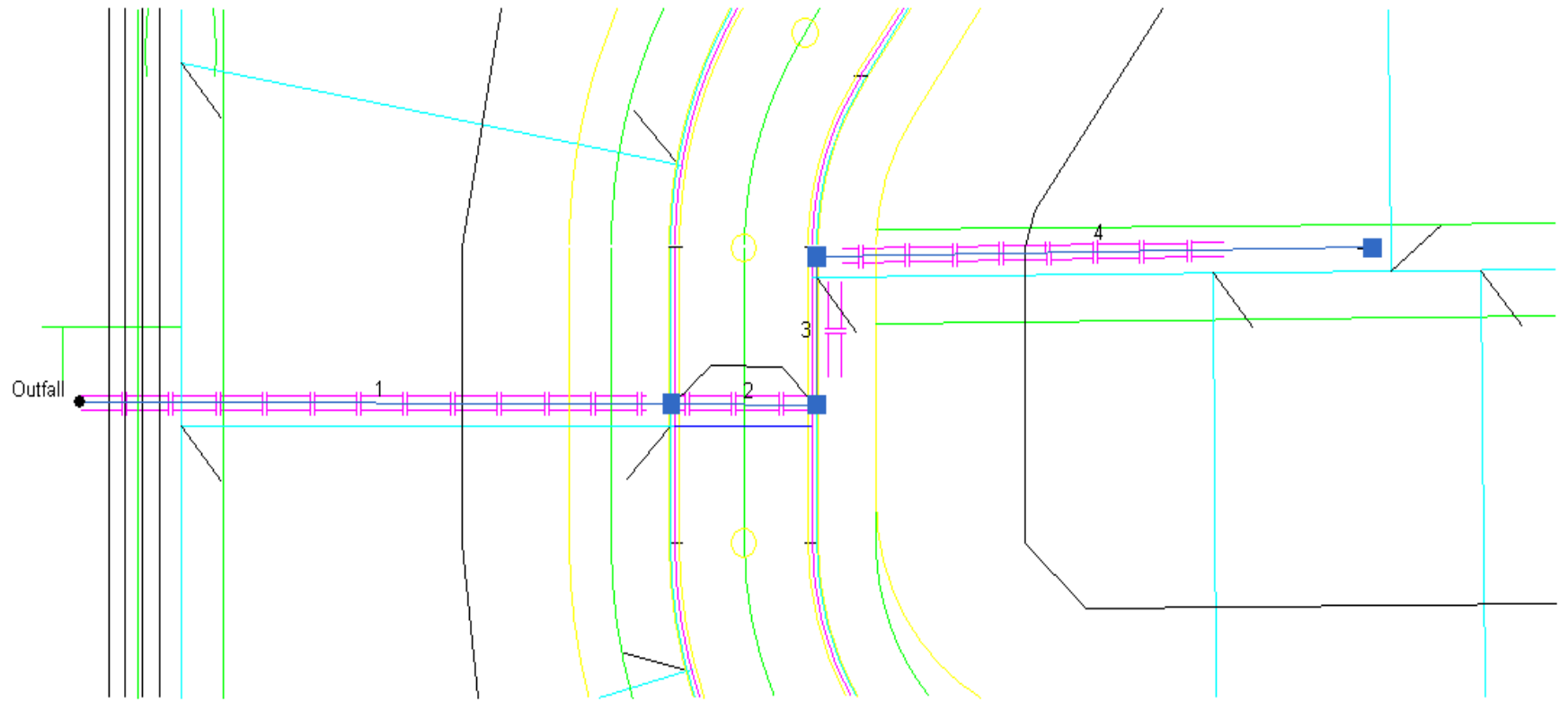


Hydraflow Plan View



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 type	N value (n)	J-loss coeff (K)	Inlet/ Rim El (ft)	
1	End	139.0	0.1	Curb	0.00	1.65	0.70	15.0	1345.00	0.45	1345.63	24	Cir	0.013	0.50	1349.80	
2	1	34.2	0.4	Curb	0.00	1.65	0.70	15.0	1345.63	0.47	1345.79	24	Cir	0.013	1.50	1349.80	
3	2	31.5	-90.5	Curb	0.00	0.00	0.00	0.0	1346.29	0.45	1346.43	18	Cir	0.013	1.50	1350.00	
4	3	130.2	89.2	DrGrt	0.00	1.30	0.70	15.0	1346.43	0.45	1347.02	18	Cir	0.013	1.00	1348.70	
Project File: SWS1.stm												Number of lines: 4				Date: 07-02-2007	

Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	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.
1		12.39	24 c	139.0	1345.00	1345.63	0.453	1346.73	1347.08	n/a	1347.40 i	End
2		7.95	24 c	34.2	1345.63	1345.79	0.467	1347.40	1347.43	0.19	1347.62	1
3		3.50	18 c	31.5	1346.29	1346.43	0.453	1347.66	1347.68	0.12	1347.80	2
4		3.50	18 c	130.2	1346.43	1347.02	0.453	1347.82	1347.95	0.15	1348.09	3

Project File: SWS1.stm

Number of lines: 4

Run Date: 07-02-2007

NOTES: c = cir; e = ellip; b = box; Return period = 2 Yrs. ; i - Inlet control.

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)
1		4.45	0.00	4.45	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.40	6.83	0.51	6.83	2.00	Off
2		4.45	0.00	4.45	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.40	6.83	0.51	6.83	2.00	1
3		0.00	0.00	0.00	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.06	0.75	0.17	1.25	2.00	2
4		3.50	0.00	3.50	0.00	DrGrt	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.050	0.050	0.013	0.21	10.45	0.21	10.45	0.00	3

Project File: SWS1.stm Number of lines: 4 Run Date: 07-02-2007

NOTES: Inlet N-Values = 0.016 ; Intensity = 76.31 / (Inlet time + 14.30) ^ 0.88; Return period = 2 Yrs. ; * Indicates Known Q added

Hydraulic Grade Line Computations

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
1	24	12.39	1345.00	1346.73	1.73	2.89	4.29	0.29	1347.02	n/a	139	1345.63	1347.08	1.45	2.44	5.09	0.40	1347.48i	n/a	n/a	0.062	0.50	n/a
2	24	7.95	1345.63	1347.40	1.77	2.94	2.70	0.11	1347.51	0.110	34.2	1345.79	1347.43	1.64	2.75	2.89	0.13	1347.56	0.124	0.117	0.040	1.50	0.19
3	18	3.50	1346.29	1347.66	1.37	1.69	2.07	0.07	1347.73	0.097	31.5	1346.43	1347.68	1.25	1.58	2.22	0.08	1347.76	0.108	0.102	0.032	1.50	0.12
4	18	3.50	1346.43	1347.82	1.38	1.70	2.06	0.07	1347.88	0.096	130	1347.02	1347.95	0.92	1.14	3.07	0.15	1348.09	0.228	0.162	0.212	1.00	0.15

Project File: SWS1.stm

Number of lines: 4

Run Date: 07-02-2007