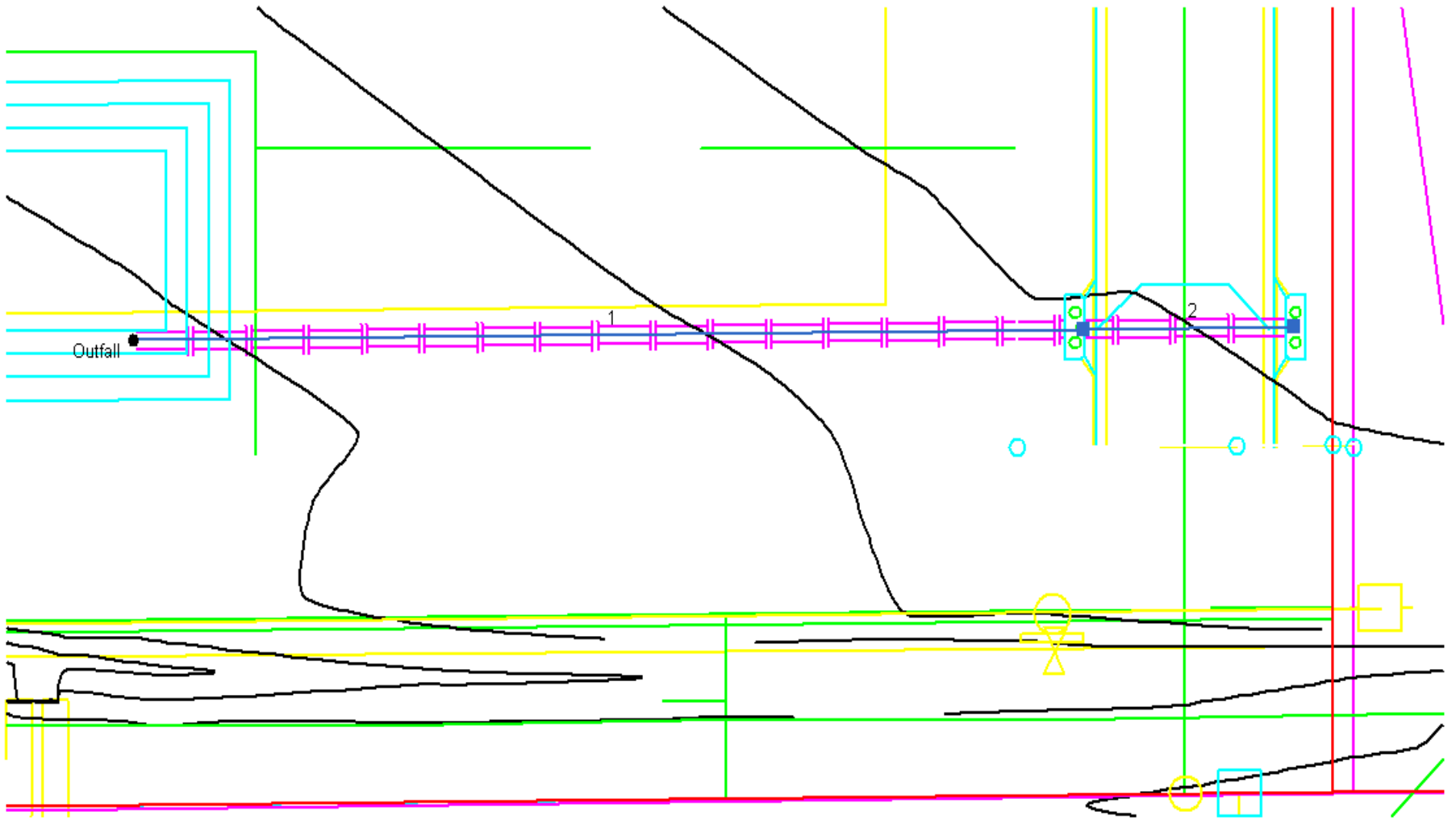


Hydraflow Plan View



SWS4

No. Lines: 2

07-02-2007

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	181.2	-0.6	Curb	0.00	1.00	0.70	15.0	1344.00	0.30	1344.54	18	Cir	0.013	0.50	1347.00	
2	1	40.0	-0.2	Curb	0.00	1.00	0.70	15.0	1344.79	0.40	1344.95	15	Cir	0.013	1.00	1347.00	
SWS4												Number of lines: 2				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		7.31	18 c	181.2	1344.00	1344.54	0.298	1345.25*	1346.19*	0.13	1346.32	End
2		3.65	15 c	40.0	1344.79	1344.95	0.400	1346.45*	1346.57*	0.14	1346.71	1
SWS4							Number of lines: 2			Run Date: 07-02-2007		
NOTES: c = cir; e = ellip; b = box; Return period = 10 Yrs. ; *Surcharged (HGL above crown).												

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		3.65	0.00	3.65	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.36	5.99	0.47	5.99	2.00	Off
2		3.65	0.00	3.65	0.00	Curb	6.0	6.00	2.50	4.00	2.00	Sag	2.00	0.080	0.050	0.013	0.36	5.99	0.47	5.99	2.00	1

SWS4	Number of lines: 2	Run Date: 07-02-2007
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NOTES: Inlet N-Values = 0.016 ; Intensity = 55.18 / (Inlet time + 11.10) ^ 0.72; Return period = 10 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	18	7.31	1344.00	1345.25	1.25	1.57	4.65	0.34	1345.59	0.471	181	1344.54	1346.19	1.50	1.77	4.14	0.27	1346.45	0.484	0.478	0.865	0.50	0.13
2	15	3.65	1344.79	1346.45	1.25	1.23	2.98	0.14	1346.58	0.320	40.0	1344.95	1346.57	1.25	1.23	2.98	0.14	1346.71	0.320	0.320	0.128	1.00	0.14

SWS4

Number of lines: 2

Run Date: 07-02-2007