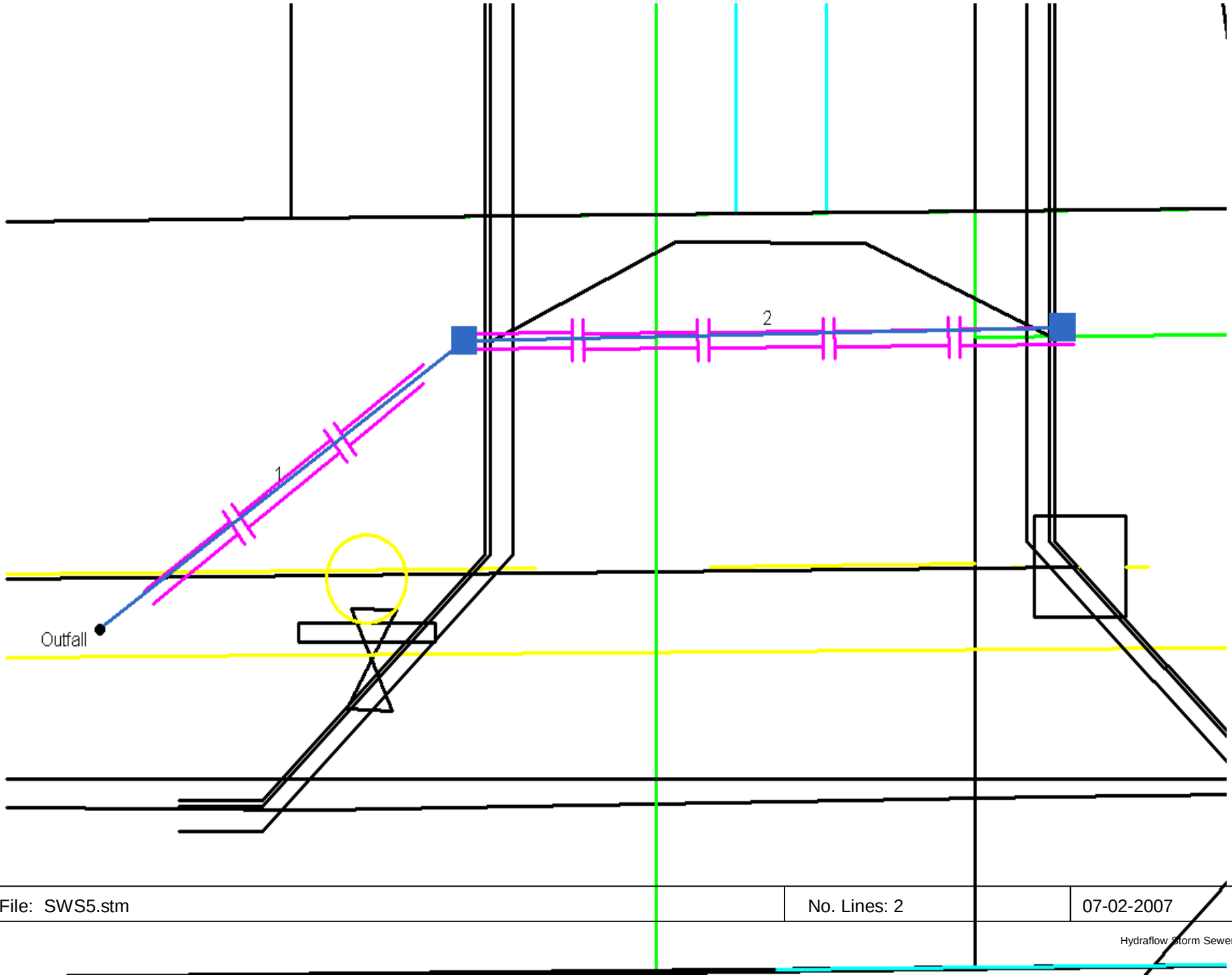
Hydraflow Plan View



Project File: SWS5.stm	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	39.3	-35.6	Curb	0.00	1.00	0.70	15.0	1345.30	0.31	1345.42	15	Cir	0.013	0.93	1348.00	
2	1	52.4	34.5	Curb	0.00	1.00	0.70	15.0	1345.42	0.31	1345.58	15	Cir	0.013	1.00	1348.00	

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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	15 c	39.3	1345.30	1345.42	0.305	1346.49*	1346.98*	n/a	1347.48 i	End
2		3.65	15 c	52.4	1345.42	1345.58	0.305	1347.48*	1347.65*	0.14	1347.79	1

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NOTES: c = cir; e = ellip; b = box; Return period = 10 Yrs. ; *Surcharged (HGL above crown). ; 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		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

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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	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
			Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf		Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf	Ave Sf	Enrgy loss		
	(in)	(cfs)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(%)	(ft)	(K)	(ft)
1	15	7.31	1345.30	1346.49	1.19	1.21	6.06	0.57	1347.06	n/a	39.3	1345.42	1346.98	1.25	1.23	5.96	0.55	1347.53i	n/a	n/a	-0.081	0.93	n/a
2	15	3.65	1345.42	1347.48	1.25	1.23	2.98	0.14	1347.62	0.320	52.4	1345.58	1347.65	1.25	1.23	2.98	0.14	1347.79	0.320	0.320	0.168	1.00	0.14

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