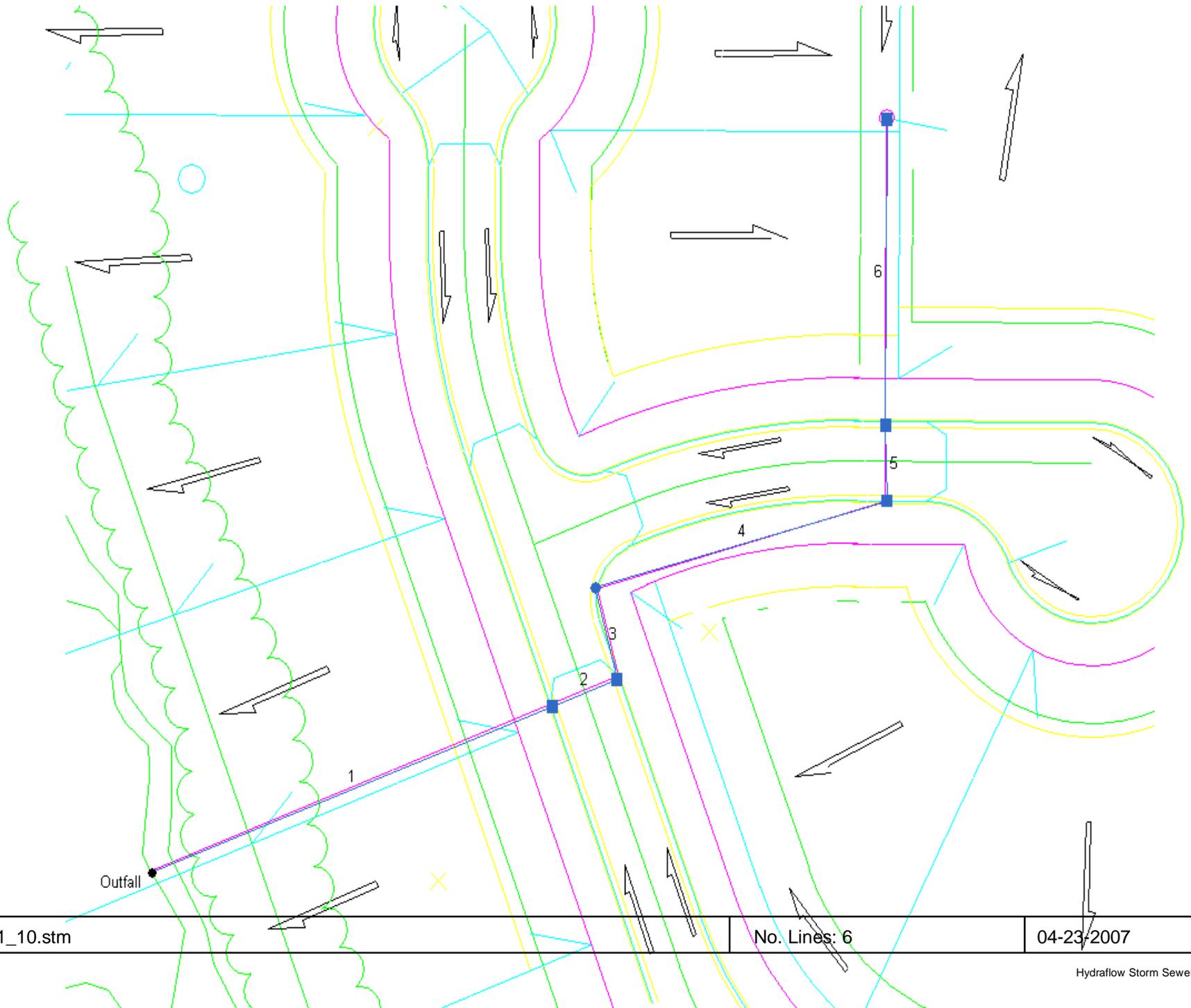


Hydraflow Plan View



Project File: sws1_10.stm

No. Lines: 6

04-23-2007

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		8.30	18 c	165.2	1251.00	1251.50	0.300	1252.50*	1253.53*	0.17	1253.70	End
2		5.95	18 c	26.6	1256.50	1256.58	0.297	1257.79	1257.87	0.31	1258.18	1
3		3.60	15 c	33.1	1256.83	1256.94	0.326	1258.26*	1258.36*	0.13	1258.50	2
4		3.60	15 c	116.7	1256.94	1257.32	0.326	1258.50*	1258.86*	0.20	1259.06	3
5		2.75	15 c	26.6	1257.32	1257.40	0.324	1259.11*	1259.16*	0.04	1259.20	4
6		1.90	15 c	107.0	1257.40	1257.75	0.324	1259.24*	1259.33*	0.04	1259.37	5

Project File: sws1_10.stm	Number of lines: 6	Run Date: 04-23-2007
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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		2.35*	0.00	2.35	0.00	Curb	6.0	10.00	0.00	0.00	0.00	Sag	2.00	0.080	0.030	0.000	0.28	5.88	0.34	5.88	2.00	Off
2		2.35*	0.01	2.36	0.00	Curb	6.0	10.00	0.00	0.00	0.00	Sag	2.00	0.080	0.030	0.000	0.28	5.90	0.34	5.90	2.00	Off
3		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	0.00	Off
4		0.85*	0.00	0.85	0.00	Curb	6.0	5.00	0.00	0.00	0.00	0.005	2.00	0.080	0.030	0.013	0.24	4.50	0.27	3.51	2.00	2
5		0.85*	0.00	0.85	0.00	Curb	6.0	5.00	0.00	0.00	0.00	0.005	2.00	0.080	0.030	0.013	0.24	4.50	0.27	3.51	2.00	2
6		1.90*	0.00	1.90	0.00	DrGrt	0.0	0.00	2.00	4.00	2.00	Sag	2.00	0.020	0.020	0.000	0.14	16.06	0.14	16.06	0.00	Off

Project File: sws1_10.stm Number of lines: 6 Run Date: 04-23-2007

NOTES: Inlet N-Values = 0.016 ; Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83; 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	8.30	1251.00	1252.50	1.50	1.77	4.70	0.34	1252.84	0.625	165	1251.50	1253.53	1.50	1.77	4.70	0.34	1253.88	0.625	0.625	1.032	0.50	0.17
2	18	5.95	1256.50	1257.79	1.29*	1.62	3.68	0.21	1258.00	0.297	26.6	1256.58	1257.87	1.29	1.62	3.68	0.21	1258.08	0.297	0.297	0.079	1.49	0.31
3	15	3.60	1256.83	1258.26	1.25	1.23	2.93	0.13	1258.39	0.311	33.1	1256.94	1258.36	1.25	1.23	2.93	0.13	1258.50	0.311	0.311	0.103	1.00	0.13
4	15	3.60	1256.94	1258.50	1.25	1.23	2.93	0.13	1258.63	0.311	117	1257.32	1258.86	1.25	1.23	2.93	0.13	1258.99	0.311	0.311	0.363	1.46	0.20
5	15	2.75	1257.32	1259.11	1.25	1.23	2.24	0.08	1259.19	0.181	26.6	1257.40	1259.16	1.25	1.23	2.24	0.08	1259.24	0.181	0.181	0.048	0.50	0.04
6	15	1.90	1257.40	1259.24	1.25	1.23	1.55	0.04	1259.28	0.087	107	1257.75	1259.33	1.25	1.23	1.55	0.04	1259.37	0.087	0.087	0.093	1.00	0.04

Project File: sws1_10.stm

Number of lines: 6

Run Date: 04-23-2007

Notes: * Normal depth assumed.

Storm Sewer Profile

Elev. (ft)

