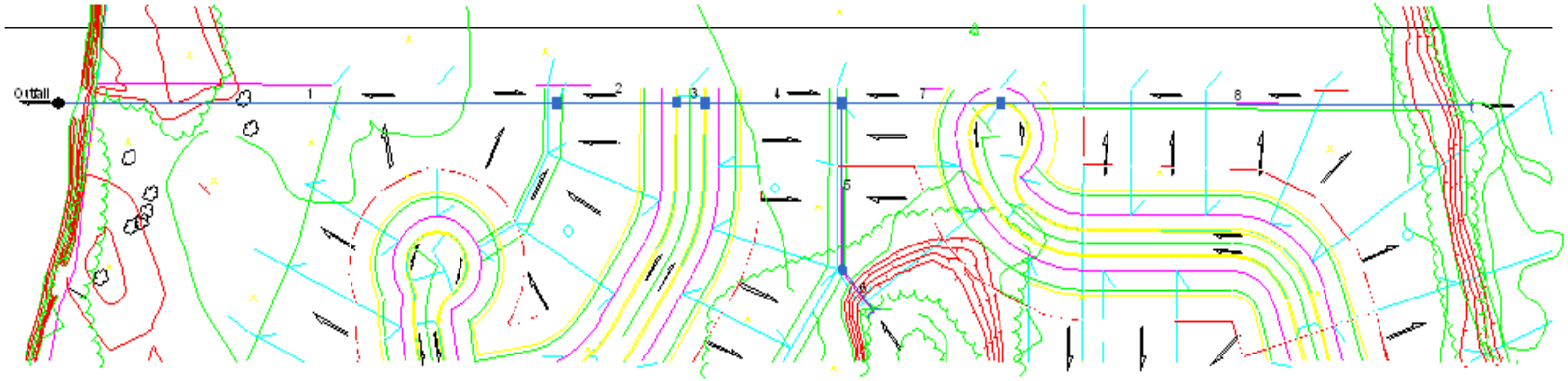
Hydraflow Plan View



sws3_RW	No. Lines: 8	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		7.50	24 c	568.0	1245.00	1246.70	0.299	1246.33	1247.76	n/a	1248.03 i	End
2		6.40	24 c	137.1	1246.70	1247.12	0.306	1248.03	1248.21	n/a	1248.21 i	1
3		5.50	24 c	33.0	1247.12	1247.21	0.272	1248.21	1248.26	0.09	1248.34	2
4		4.60	24 c	155.2	1247.21	1247.68	0.303	1248.48	1248.62	0.24	1248.85	3
5		0.50	15 c	171.1	1248.43	1248.99	0.327	1249.01	1249.29	n/a	1249.34 i	4
6		0.50	15 c	56.1	1248.99	1249.17	0.321	1249.34	1249.47	n/a	1249.51 i	5
7		3.60	18 c	181.2	1248.18	1248.72	0.298	1249.04	1249.58	n/a	1249.63 i	4
8		0.50	15 c	536.0	1248.97	1252.00	0.565	1249.63	1252.28	n/a	1252.37 i	7

sws3_RW | Number of lines: 8 | Run Date: 04-23-2007

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		1.10*	0.00	1.10	0.00	DrGrt	0.0	0.00	8.00	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.10	5.90	0.10	5.90	0.00	Off
2		0.90*	0.00	0.90	0.00	Curb	6.0	10.00	0.00	0.00	0.00	Sag	2.00	0.080	0.030	0.000	0.19	3.09	0.26	3.09	2.00	Off
3		0.90*	0.00	0.90	0.00	Curb	6.0	10.00	0.00	0.00	0.00	Sag	2.00	0.080	0.030	0.000	0.19	3.09	0.26	3.09	2.00	Off
4		0.50*	0.00	0.50	0.00	DrGrt	0.0	0.00	8.00	4.00	2.00	Sag	2.00	0.050	0.050	0.000	0.06	4.31	0.06	4.31	0.00	Off
5		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
6		0.50*	0.00	0.50	0.00	Hdwl	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
7		3.10*	0.00	3.10	0.00	Curb	6.0	10.00	0.00	0.00	0.00	Sag	2.00	0.080	0.030	0.000	0.31	7.08	0.38	7.08	2.00	Off
8		0.50*	0.00	0.50	0.00	Hdwl	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

sws3_RW | Number of lines: 8 | Run Date: 04-23-2007

NOTES: Inlet N-Values = 0.016 ; Intensity = 69.87 / (Inlet time + 13.10) ^ 0.87; Return period = 2 Yrs. ; * Indicates Known Q added

Hydraulic Grade Line Computations

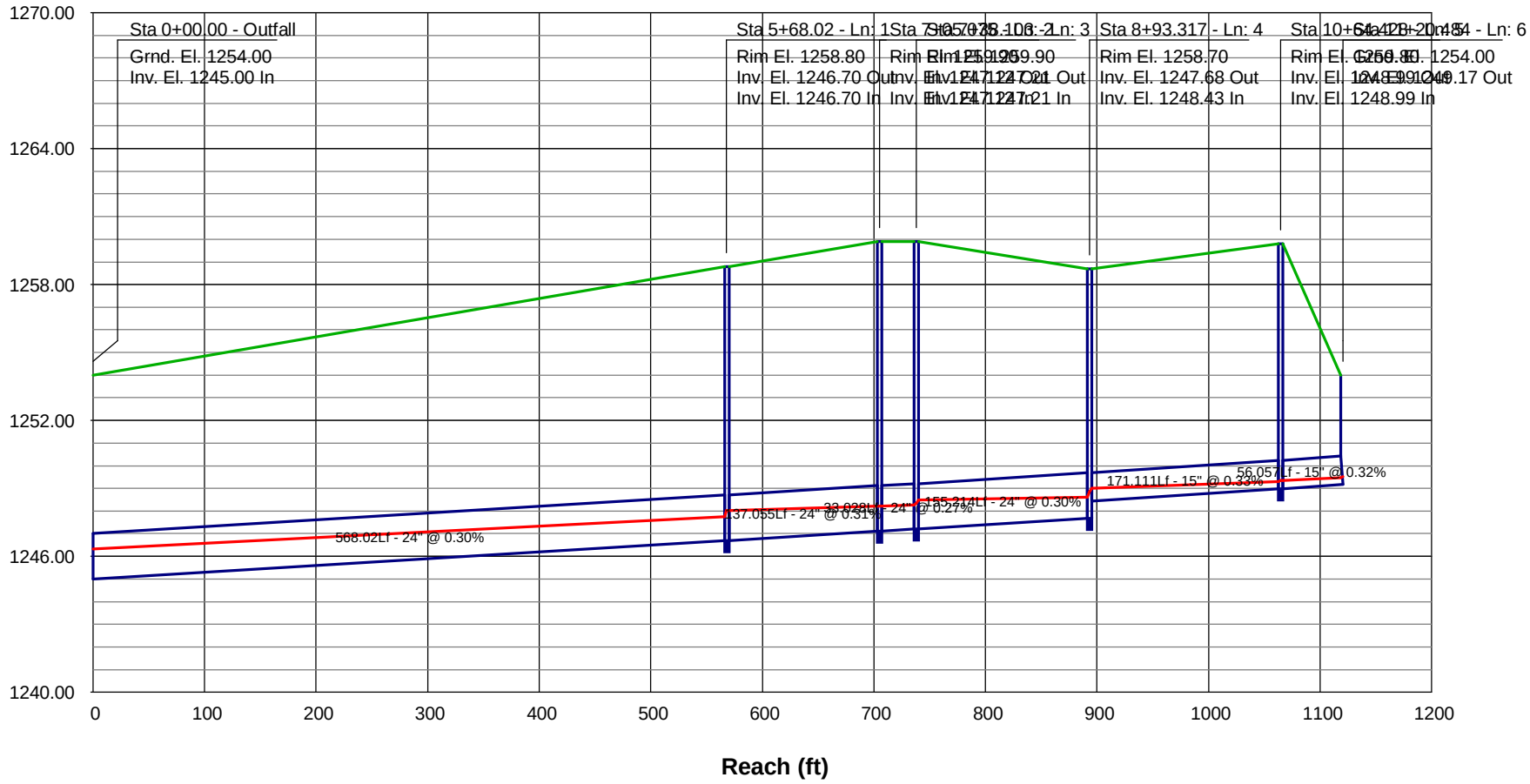
Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
			Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf		Invert elev	HGL elev	Depth	Area	Vel	Vel head	EGL elev	Sf	Ave Sf	Enrgy loss		
	(in)	(cfs)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(sqft)	(ft/s)	(ft)	(ft)	(%)	(%)	(ft)	(K)	(ft)
1	24	7.50	1245.00	1246.33	1.33	2.22	3.38	0.18	1246.51	n/a	568	1246.70	1247.76	1.05	1.68	4.46	0.31	1248.07i	n/a	n/a	1.247	0.50	n/a
2	24	6.40	1246.70	1248.03	1.33	2.22	2.88	0.13	1248.16	n/a	137	1247.12	1248.21	1.09	1.74	3.67	0.21	1248.42i	n/a	n/a	0.044	0.50	n/a
3	24	5.50	1247.12	1248.21	1.09	1.75	3.15	0.15	1248.36	0.178	33.0	1247.21	1248.26	1.04	1.66	3.31	0.17	1248.43	0.204	0.191	0.063	0.50	0.09
4	24	4.60	1247.21	1248.48	1.27	2.10	2.19	0.07	1248.55	0.078	155	1247.68	1248.62	0.94	1.45	3.18	0.16	1248.78	0.207	0.142	0.221	1.50	0.24
5	15	0.50	1248.43	1249.01	0.58	0.56	0.90	0.01	1249.02	n/a	171	1248.99	1249.29	0.30	0.23	2.19	0.07	1249.37i	n/a	n/a	0.270	0.66	n/a
6	15	0.50	1248.99	1249.34	0.35	0.28	1.81	0.05	1249.39	n/a	56.1	1249.17	1249.47	0.30	0.23	2.16	0.07	1249.55i	n/a	n/a	0.088	1.00	n/a
7	18	3.60	1248.18	1249.04	0.86*	1.05	3.43	0.18	1249.22	n/a	181	1248.72	1249.58	0.86	1.05	3.42	0.18	1249.77i	n/a	n/a	0.358	0.50	n/a
8	15	0.50	1248.97	1249.63	0.66	0.65	0.77	0.01	1249.63	n/a	536	1252.00	1252.28	0.28**	0.21	2.40	0.09	1252.37i	n/a	n/a	n/a	1.00	n/a

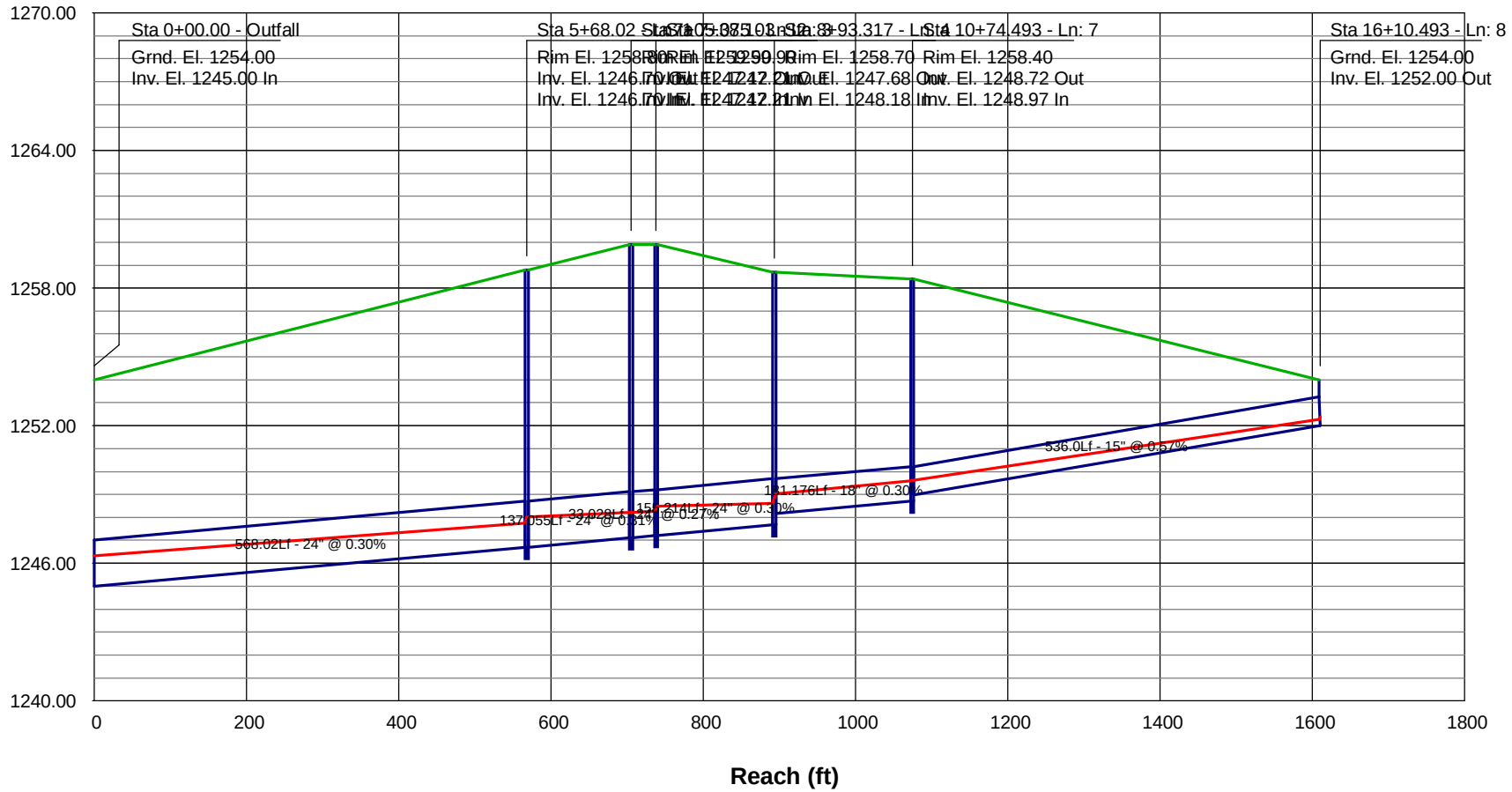
sws3_RW | Number of lines: 8 | Run Date: 04-23-2007

Notes: * Normal depth assumed.; ** Critical depth.

Storm Sewer Profile

Proj. file: sws3_2.stm



Storm Sewer Profile

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