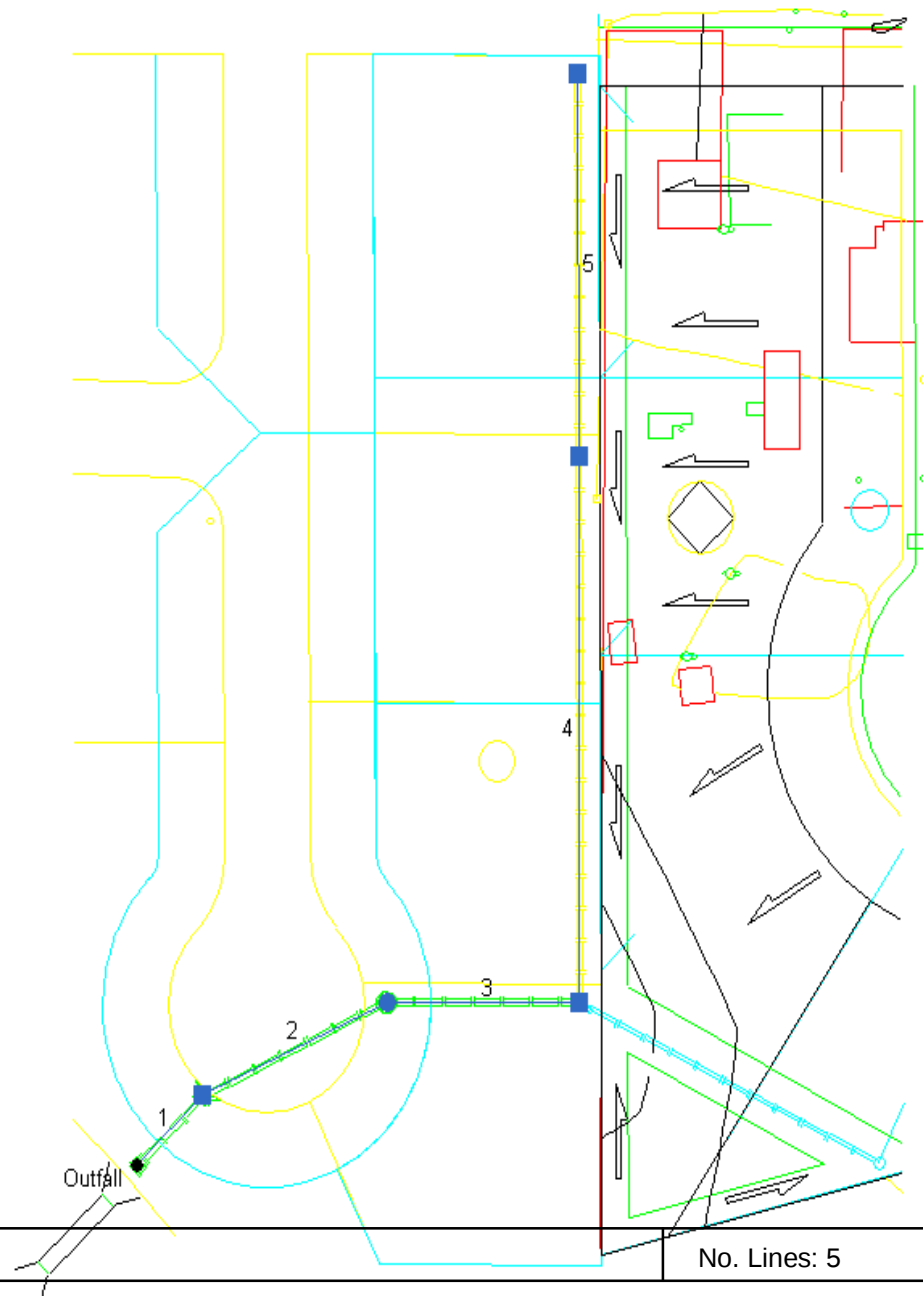


Hydraflow Plan View



Willow Place 2nd

No. Lines: 5

06-19-2007

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	34.1	-44.4	Curb	0.00	0.53	0.93	15.0	1390.00	0.44	1390.15	24	Cir	0.013	0.59	1396.28	
2	1	76.5	20.0	MH	0.00	0.00	0.00	0.0	1390.15	0.46	1390.50	24	Cir	0.013	0.47	1396.28	
3	2	72.5	24.4	DrGrt	0.00	2.80	0.73	15.0	1390.50	0.46	1390.83	24	Cir	0.013	1.50	1394.08	
4	3	186.8	-90.0	DrGrt	0.00	0.22	0.73	15.0	1391.33	0.44	1392.16	18	Cir	0.013	0.50	1396.27	
5	4	130.8	-0.2	DrGrt	0.00	0.21	0.73	15.0	1392.16	0.58	1392.92	18	Cir	0.013	1.00	1396.45	
Willow Place 2nd												Number of lines: 5				Date: 06-19-2007	

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		21.00	24 c	34.1	1390.00	1390.15	0.440	1391.62	1392.13	n/a	1392.95 i	End
2		17.37	24 c	76.5	1390.15	1390.50	0.457	1392.95*	1393.40*	0.22	1393.63	1
3		17.37	24 c	72.5	1390.50	1390.83	0.455	1393.63*	1394.06*	0.71	1394.77	2
4		2.31	18 c	186.8	1391.33	1392.16	0.444	1395.22*	1395.31*	0.01	1395.32	3
5		1.13	18 c	130.8	1392.16	1392.92	0.581	1395.34*	1395.36*	0.01	1395.36	4
Willow Place 2nd							Number of lines: 5			Run Date: 06-19-2007		
NOTES: c = cir; e = ellip; b = box; Return period = 100 Yrs. ; *Surcharged (HGL above crown). ; i - Inlet control.												

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (l)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total		Incr	Total	Inlet	Syst					Size	Slope	Up	Dn	Up	Dn	Up	Dn	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	34.1	0.53	3.76	0.93	0.49	2.85	15.0	21.2	6.4	21.00	15.01	7.19	24	0.44	1390.15	1390.00	1392.13	1391.62	1396.28	1394.50	
2	1	76.5	0.00	3.23	0.00	0.00	2.36	0.0	21.0	6.4	17.37	15.29	5.53	24	0.46	1390.50	1390.15	1393.40	1392.95	1396.28	1396.28	
3	2	72.5	2.80	3.23	0.73	2.04	2.36	15.0	20.8	6.4	17.37	15.26	5.53	24	0.46	1390.83	1390.50	1394.06	1393.63	1394.08	1396.28	
4	3	186.8	0.22	0.43	0.73	0.16	0.31	15.0	18.4	6.8	2.31	7.00	1.31	18	0.44	1392.16	1391.33	1395.31	1395.22	1396.27	1394.08	
5	4	130.8	0.21	0.21	0.73	0.15	0.15	15.0	15.0	7.4	1.13	8.00	0.64	18	0.58	1392.92	1392.16	1395.36	1395.34	1396.45	1396.27	
Willow Place 2nd																Number of lines: 5				Run Date: 06-19-2007		
NOTES: Intensity = 62.28 / (Inlet time + 10.10) ^ 0.66; Return period = 100 Yrs. ; Total flows limited to inlet captured flows.																						

Storm Sewer Profile

Elev. (ft)

