



SOUTHERNSIDE APARTMENTS

CALC. BY: J. WHISLER
DATE: 03/29/2002
REVISED: 08/12/2002

VER. 2.0

STRUCTURE		FLOWLINE		LENGTH	GRADE	PIPE	"n"	Q	TOTAL	V	Vh	PIPE LOSSES (ft.)		STRUCTURE		LOSSES (ft.)		HYD		FULL FLOW		GIVEN								
UPR	LOWER	UPR	LOWER	FT.	ft. / ft.	SIZE	FACTOR	c.f.s.	Q	f.p.s.	ft.	LOSS	CURVE	TOTAL PIPE	JUNC. LOSS	BEND LOSS	TOTAL STRUC.	HYD. UPPER	ELEV. LOWER	ft. / ft.	LOWEST	OPENING	FREEBOARD	PIPE CAPACITY	Q/CAP.	DEPTH IN PIPE	VELOCITY f.p.s.	LOWER HYD	ELEV	
HYDRAULIC DATA 15 YEAR STORM																														
51	50	509.96	509.00	96	0.0100	48	0.013	1.19	132.17	11.99	2.23	1.06	0.00	1.06	0.10	0.00	0.10	513.06	512.00	0.011	524.00	10.94	143.64	0.92	3.00	10.42				
52	51	512.56	509.96	260	0.0100	48	0.013	130.98	130.98	11.78	2.15	2.76	0.11	2.87	0.00	0.00	0.00	515.92	513.06	0.0106	523.80	7.88	143.64	0.91	2.96	10.42				
54	53	522.10	521.90	20	0.0100	12	0.013	0.38	5.11	6.51	0.66	0.41	0.00	0.41	0.00	0.00	0.00	524.13	523.72	0.0206	527.20	2.51	3.56	1.43	0.94	6.51	523.72			
55	54	522.71	522.10	61	0.0100	12	0.013	4.73	4.73	6.02	0.56	1.08	0.00	1.08	0.00	0.00	0.00	525.07	524.13	0.0176	526.50	2.63	3.56	1.33	0.94	6.02				
57	56	524.53	521.90	132	0.0199	12	0.013	1.42	1.42	1.55	0.04	0.15	0.00	0.15	0.00	0.00	0.00	524.89	523.72	0.0012	530.00	5.11	5.03	0.28	0.36	1.81	523.72			
59	58	525.28	521.90	58	0.0583	18	0.013	1.97	12.10	6.71	0.70	0.74	0.00	0.74	0.31	0.00	0.31	526.30	523.72	0.0127	530.50	4.20	25.36	0.48	0.71	6.85				
60	59	531.23	525.28	119	0.0500	18	0.013	1.09	10.13	5.47	0.47	1.01	0.00	1.01	0.19	0.21	0.40	532.30	526.30	0.0085	538.60	6.30	23.49	0.43	0.68	5.73				
61	60	531.99	531.23	76	0.0100	18	0.013	2.36	9.04	5.78	0.52	0.72	0.00	0.72	0.23	0.18	0.41	533.47	532.30	0.0095	537.00	3.53	10.50	0.86	1.07	5.12				
62	61	540.49	531.99	85	0.1000	15	0.013	1.90	6.68	4.82	0.36	0.71	0.00	0.71	0.37	0.10	0.47	541.45	533.47	0.0084	545.00	3.55	20.43	0.33	0.49	5.44				
63	62	544.35	540.49	193	0.0200	15	0.013	1.13	4.78	3.93	0.24	1.08	0.00	1.08	0.11	0.06	0.17	545.16	541.45	0.0056	549.50	4.34	9.14	0.52	0.64	3.90				
64	63	547.00	544.35	173	0.0153	12	0.013	3.00	3.00	4.13	0.26	1.43	0.00	1.43	0.00	0.00	0.00	547.60	545.16	0.0083	551.00	3.40	4.41	0.68	0.60	3.82				
65	63	545.50	544.35	115	0.0100	12	0.013	0.65	0.65	0.62	0.01	0.02	0.00	0.02	0.00	0.00	0.00	545.79	545.16	0.0002	549.00	3.22	3.56	0.18	0.29	0.83	545.16			
67	66	532.00	525.00	105	0.0667	12	0.013	1.76	5.47	7.24	0.81	2.68	0.00	2.68	0.72	0.06	0.78	533.32	525.55	0.0255	538.00	4.68	9.20	0.59	0.55	6.96	523.72			
68	67	538.88	534.00	135	0.0361	12	0.013	1.73	3.71	4.82	0.36	1.52	0.00	1.52	0.31	0.00	0.31	539.71	534.52	0.0113	545.25	5.54	6.77	0.55	0.52	4.72				
69	68	539.50	538.88	62	0.0100	12	0.013	1.98	1.98	2.57	0.10	0.20	0.00	0.20	0.00	0.00	0.00	540.02	539.71	0.0032	543.00	2.98	3.56	0.56	0.52	2.52				

523.72
523.72
523.72

ELEV. 523.72=15-YR. HIGHWATER ELEV. IN LAKE PER DETENTION ROUTING REPORT

545.16
523.72



10/23/02 CITY OF O'FALLON CMNTS
8/12/02 CITY OF O'FALLON CMNTS

SOUTHERNSIDE APARTMENTS
STORM SEWER PROFILES

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