



Savannah Center Storm Sewer Calculations

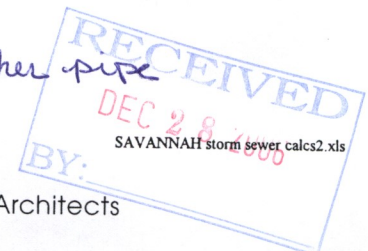
MSP Proj. No. 00362.50

Frequency = 10 year storm
Manning's n = 0.013

From	To	Tm	I	DA	Sum DA	C	A*C	Sum A*C	Q	Pipe Information					Ts
										Slope	Dia.	Cap.	Vel.	L	
100	101	10.00	5.15	0.75	0.75	0.80	0.60	0.60	3.09	0.60%	15	5.0	4.08	48	0.20
101	102	10.20	5.12	0.70	1.45	0.80	0.56	1.16	5.94	0.40%	18	6.6	3.76	88	0.39
102	out	10.59	5.06	0.00	1.45	0.00	0.00	1.16	5.87	0.40%	18	6.6	3.76	124	0.55
3043	3034	10.00	5.15	0.30	0.30	0.75	0.23	0.23	1.16	1.00%	12	3.6	4.54	35	0.13
3034	302	10.13	5.13	0.25	0.55	0.70	0.18	0.40	2.05	0.60%	12	2.8	3.52	88	0.42
302*	301	10.55	5.07	*6.00	6.55	0.60	3.60	4.00	20.27	0.32%	30	23.2	4.73	124	0.44
301A	301 302	10.00	5.15	0.60	0.60	0.70	0.42	0.42	2.16	0.40%	12	2.3	2.87	46	0.27
301	300	10.98	5.00	0.20	7.35	0.95	0.19	4.61	23.06	0.34%	30	23.9	4.87	121	0.41
300	out	11.40	4.94	0.40	7.75	0.75	0.30	4.91	24.27	0.37%	30	24.9	5.08	65	0.21
503	502	10.00	5.15	0.40	0.40	0.90	0.36	0.36	1.85	0.60%	12	2.8	3.52	79	0.37
502	501	10.37	5.09	0.45	0.85	0.90	0.41	0.77	3.90	0.60%	15	5.0	4.08	95	0.39
501	out	10.76	5.04	0.20	1.05	0.95	0.19	0.96	4.81	0.60%	15	5.0	4.08	19	0.08
200	200A	10.00	5.15	0.45	0.45	1.00	0.45	0.45	2.31	3.00%	12	6.2	7.87	69	0.15
200D	200C	10.00	5.15	0.10	0.10	0.35	0.04	0.04	0.18	1.00%	6	0.6	2.85	55	0.32
200C	200B	10.32	5.10	0.10	0.20	0.70	0.07	0.11	0.54	0.60%	12	2.8	3.52	57	0.27
200B	200A	10.59	5.06	0.05	0.25	0.75	0.04	0.14	0.72	0.60%	12	2.8	3.52	40	0.19
200A	out	10.78	5.03	0.15	0.85	0.75	0.11	0.70	3.54	3.00%	12	6.2	7.87	43	0.09

* Assumed - based on ex. culvert pipe capacity

* per subdivision calculations; portion of the 6 acres to other pipe
∴ these are OK; just resubmit w/ 301A going into 302...
Prepared By Thomas J. Vanden Bosch, P.E., P.S. 12/28/2006





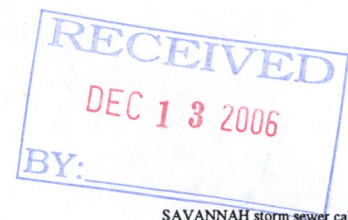
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304	303	10.00	5.15	0.30	0.30	0.75	0.23	0.23	1.16	1.00%	12	3.6	4.54	35	0.13
303	302	10.13	5.13	0.25	0.55	0.70	0.18	0.40	2.05	0.60%	12	2.8	3.52	88	0.42
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✓502	501	10.37	5.09	0.45	0.85	0.90	0.41	0.77	3.90	0.60%	15	5.0	4.08	95	0.39
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✓200A	out	10.78	5.03	0.15	0.85	0.75	0.11	0.70	3.54	3.00%	12	6.2	7.87	43	0.09

* Assumed - based on ex. culvert pipe capacity



Prepared By Thomas J. Vanden Bosch, P.E., P.S. 12/12/2006

SAVANNAH storm sewer calcs.xls