

**Appendix B**  
**Preliminary Pipe Size Chart**

## Preliminary RCP Pipe Sizing (Pipe flowing Full)

Assumptions:

C-value: 0.95  
 T of C: 5.00 min  
 Return Period: 10 year  
 Intensity: 7.22 in/hr  
 N value: 0.013 RCP

Slope	0.50%		0.55%		0.60%		0.75%	
Dia	Capacity	Area	Capacity	Area	Capacity	Area	Capacity	Area
in	cfs	ac	cfs	ac	cfs	ac	cfs	ac
12	2.53	0.368	2.65	0.386	2.77	0.403	3.09	0.451
15	4.58	0.668	4.80	0.700	5.02	0.731	5.61	0.818
18	7.45	1.086	7.81	1.139	8.16	1.189	9.12	1.330
24	16.04	2.338	16.82	2.452	17.57	2.561	19.64	2.864
30	29.08	4.239	30.50	4.446	31.85	4.644	35.61	5.192
Slope	1.00%		1.25%		1.50%		1.75%	
Dia	Capacity	Area	Capacity	Area	Capacity	Area	Capacity	Area
in	cfs	ac	cfs	ac	cfs	ac	cfs	ac
12	3.57	0.521	3.99	0.582	4.37	0.638	4.73	0.689
15	6.48	0.944	7.24	1.056	7.93	1.156	8.57	1.249
18	10.53	1.535	11.77	1.717	12.90	1.880	13.93	2.031
24	22.68	3.307	25.36	3.697	27.78	4.050	30.00	4.374
30	41.12	5.995	45.97	6.703	50.36	7.343	54.40	7.931
Slope	2.00%		2.25%		2.50%		2.75%	
Dia	Capacity	Area	Capacity	Area	Capacity	Area	Capacity	Area
in	cfs	ac	cfs	ac	cfs	ac	cfs	ac
12	5.05	0.736	5.36	0.781	5.65	0.823	5.92	0.864
15	9.16	1.335	9.71	1.416	10.24	1.493	10.74	1.566
18	14.89	2.171	15.80	2.303	16.65	2.428	17.46	2.546
24	32.07	4.676	34.02	4.960	35.86	5.228	37.61	5.483
30	58.15	8.478	61.68	8.993	65.02	9.479	68.19	9.942
Slope	3.00%		3.50%		4.00%		4.50%	
Dia	Capacity	Area	Capacity	Area	Capacity	Area	Capacity	Area
in	cfs	ac	cfs	ac	cfs	ac	cfs	ac
12	6.19	0.902	6.68	0.974	7.14	1.041	7.58	1.105
15	11.22	1.635	12.12	1.766	12.95	1.888	13.74	2.003
18	18.24	2.659	19.70	2.872	21.06	3.071	22.34	3.257
24	39.28	5.727	42.43	6.186	45.36	6.613	48.11	7.014
30	71.22	10.384	76.93	11.216	82.24	11.990	87.23	12.718