



204-3224
02, Feb. 2005

PROGRESS WEST (BIC HOSPITAL)
STORMWATER RUNOFF CALCULATIONS

POST-DEVELOPMENT RUNOFF

SUBAREA	AREA (SQ. FT.)		TOTAL AREA		IMPERVIOUS PERCENTAGE				
	IMPERVIOUS	PERVIOUS	SQ. FT.	AC.	ACERAGE	Q(15)	PERVIOUS	Q(15)	TOTAL
SOUTH WATERSHED (BYPASS DETENTION)									
34	4,839	58,800	63,639	1.46	0.11	0.39	1.35	2.29	2.69
35	2,585	2,585	5,170	0.12	0.06	0.21	0.00	0.00	0.27
4	3,210	4,948	8,158	0.19	0.04	0.07	0.28	0.11	0.45
64	3,115	0	3,115	0.07	0.07	0.25	0.00	0.00	0.25
105	0	92,481	92,481	2.12	0.00	0.00	2.12	3.61	3.61
106	0	44,255	44,255	1.02	0.00	0.00	1.02	1.73	1.73
Totals					0.32	1.12	4.60	7.82	8.94

NORTH WATERSHED

1	34,013	0	34,013	0.78	0.78	2.76	0.00	0.00	2.76	
2	6,540	131,295	137,835	3.16	0.15	0.53	3.01	5.12	5.66	
3	0	31,112	31,112	0.71	0.00	0.00	0.71	1.21	1.21	
4	17,727	0	17,727	0.41	0.41	1.44	0.00	0.00	1.44	
5	11,212	0	11,212	0.26	0.26	0.91	0.00	0.00	0.91	
6	11,674	0	11,674	0.27	0.27	0.95	0.00	0.00	0.95	
7	12,105	31,375	43,480	1.00	0.28	0.98	0.72	1.22	2.21	
8	20,848	46,091	66,939	1.54	0.48	1.69	1.06	1.80	3.49	
9	0	12,241	12,241	0.28	0.00	0.00	0.28	0.48	0.48	
10	6,739	1,071	7,810	0.18	0.15	0.55	0.02	0.04	0.59	
11	4,064	1,071	5,135	0.12	0.09	0.33	0.02	0.04	0.37	
12	18,317	9,377	27,694	0.64	0.42	1.49	0.22	0.37	1.85	
13	37,540	0	37,540	0.86	0.86	3.05	0.00	0.00	3.05	
14	4,283	15,291	19,574	0.45	0.10	0.35	0.35	0.60	0.94	
15	9,051	6,740	15,791	0.36	0.21	0.74	0.15	0.26	1.00	
16	6,856	2,974	9,830	0.22	0.15	0.54	0.07	0.12	0.66	
17	12,944	6,756	19,700	0.45	0.30	1.05	0.16	0.26	1.32	
18	15,000	3,102	18,102	0.42	0.34	1.22	0.07	0.12	1.34	
19	5,113	29,857	34,970	0.80	0.12	0.42	0.69	1.17	1.58	
20	4,999	47,671	52,670	1.21	0.11	0.41	1.09	1.86	2.27	
21	4,644	63,026	67,670	1.50	0.15	0.53	1.45	2.46	2.99	
22	12,150	39,534	51,684	1.19	0.28	0.99	0.91	1.54	2.53	
23	3,552	0	3,552	0.08	0.08	0.29	0.00	0.00	0.29	
24	2,208	4,240	6,448	0.15	0.05	0.18	0.10	0.17	0.34	
25	6,829	6,301	13,130	0.30	0.16	0.55	0.14	0.25	0.80	
26	0	10,723	10,723	0.25	0.00	0.00	0.25	0.40	0.40	
27	17,860	0	17,860	0.41	0.41	1.44	0.00	0.00	1.44	
28	0	18,832	18,832	0.43	0.00	0.00	0.43	0.73	0.73	
29	15,468	0	15,468	0.36	0.36	1.26	0.00	0.00	1.26	
30	20,335	0	20,335	0.47	0.47	1.65	0.00	0.00	1.65	
31	7,663	5,366	13,029	0.30	0.19	0.62	0.12	0.21	0.83	
32	20,335	0	20,335	0.47	0.47	1.65	0.00	0.00	1.65	
33	19,589	39,379	58,968	1.35	0.45	1.59	0.90	1.54	3.13	
36	1,600	3,172	4,772	0.11	0.04	0.13	0.07	0.12	0.25	
37	1,529	0	1,529	0.04	0.04	0.12	0.00	0.00	0.12	
38	2,915	6,021	8,936	0.20	0.06	0.20	0.14	0.23	0.44	
39	2,007	0	2,007	0.05	0.05	0.16	0.00	0.00	0.16	
40	5,110	15,017	20,127	0.46	0.12	0.42	0.34	0.59	1.00	
41	8,160	3,422	11,582	0.27	0.19	0.66	0.08	0.13	0.80	
42	3,489	3,232	6,721	0.15	0.08	0.28	0.07	0.13	0.41	
43	1,097	0	1,097	0.03	0.03	0.09	0.00	0.00	0.09	
44	2,568	19,012	21,580	0.50	0.06	0.21	0.44	0.74	0.95	
45	2,563	53,985	56,548	1.30	0.06	0.21	1.24	2.11	2.32	
46	0	88,542	88,542	2.03	0.00	0.00	2.03	3.46	3.46	
47	0	46,711	46,711	1.07	0.00	0.00	1.07	1.82	1.82	
48	0	101,408	101,408	2.33	0.00	0.00	2.33	3.96	3.96	
49	0	109,640	109,640	2.52	0.00	0.00	2.52	4.28	4.28	
50	0	150,162	150,162	3.45	0.00	0.00	3.45	5.86	5.86	
51	3,004	13,688	16,692	0.38	0.07	0.24	0.31	0.53	0.78	
62	81,385	104,321	185,706	4.26	1.87	6.61	2.39	4.07	10.69	
65	0	33,925	33,925	0.78	0.00	0.00	0.78	1.32	1.32	
66	11,200	0	11,200	0.26	0.26	0.91	0.00	0.00	0.91	
67	3,304	4,418	7,722	0.18	0.08	0.27	0.10	0.17	0.44	
92	2,635	560	3,195	0.07	0.06	0.21	0.01	0.02	0.24	
93	2,178	752	2,930	0.07	0.05	0.18	0.02	0.03	0.21	
94	2,893	752	3,645	0.08	0.07	0.24	0.02	0.03	0.28	
95	2,635	1,613	4,248	0.10	0.06	0.21	0.04	0.06	0.28	
97	6,990	2,124	9,114	0.21	0.16	0.57	0.05	0.08	0.65	
98	6,989	2,720	9,709	0.22	0.16	0.57	0.06	0.11	0.67	
99	8,871	12,531	21,402	0.49	0.20	0.72	0.29	0.49	1.21	
100	22,849	14,323	37,172	0.85	0.52	1.86	0.33	0.56	2.42	
101	0	15,300	15,300	0.35	0.00	0.00	0.35	0.60	0.60	
102	27,186	7,022	34,208	0.78	0.62	2.21	0.16	0.27	2.48	
103	4,638	14,465	19,103	0.44	0.11	0.38	0.33	0.56	0.94	
104	26,033	0	26,033	0.60	0.60	2.12	0.00	0.00	2.12	
Totals					46.07	14.11	49.94	31.96	54.34	104.27

5 - 03/02/05 REVISED PER CITY & COORDINATING COMMENTS
 4 - 02/02/05 REVISED PER CITY, DUCKETT CREEK AND MODOT COMMENTS
 3 - 12/08/04 REVISED SANITARY SEWER ROUTE
 2 - 12/01/04 REVISED PER FIRE DISTRICT, SEWER DISTRICT AND CITY COMMENTS
 1 - 11/22/04 REVISED PER COORDINATION ISSUES

PROGRESS WEST HEALTHCARE CENTER - UTILITY PACKAGE

DEVELOPED SITE DRAINAGE AREA MAP

P & Z FILE NUMBER 99104.09.03

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