

APPENDIX B - TABLES

TABLE 1- DRAINAGE AREA SUMMARY

WARRIOR RUN

Area	Acreage	Existing CN	Ultimate CN	t_c (hrs.)
1.	179.86	72.7	79.6	.20
2.	216.43	68.0	72.4	.58
3.	32.66	44.7	86.9	.17
4.	35.19	75.4	77.0	.12
5.	1.38	82.0	82.0	.02
6.	174.57	66.8	71.4	.32
7.	11.96	81.5	81.5	.09
8.	133.63	73.0	76.2	.18
9.	72.22	76.7	76.9	.55
10.	95.22	72.4	79.0	.17
11.	19.32	73.4	88.2	.09
12.	366.85	60.5	74.7	.56
13.	72.22	69.6	74.1	.12
14.	128.34	62.0	65.7	.30
15.	67.39	75.2	75.2	.14
16.	455.63	65.8	70.7	.39
17.	165.60	69.2	69.2	.12
18.	189.06	66.1	66.6	.56
19.	89.01	61.8	61.8	.44
20.	197.57	62.9	62.9	.41

TABLE 1- DRAINAGE AREA SUMMARY

WARRIOR RUN

Area	Acreage	Existing CN	Ultimate CN	t_c (hrs.)
21.	155.02	68.5	70.5	.43
22.	142.14	66.8	71.8	.21
23.	114.54	71.8	73.6	.13
24.	86.25	71.7	71.7	.17
25.	164.45	70.3	76.3	1.45
26.	339.71	72.2	76.2	.43
27.	32.20	72.1	78.0	.83
28.	41.17	75.2	80.6	.45
29.	84.64	73.9	77.8	.25
30.	180.78	67.2	77.9	.16
31.	42.09	51.5	64.4	.17
32.	13.11	73.5	82.0	.12
33.	28.98	74.1	76.7	.20
34.	34.27	79.8	82.3	.16
35.	56.81	78.1	86.3	.25
36.	66.24	47.3	72.5	.55
37.	47.61	77.2	82.7	.18
38.	20.24	79.8	85.7	.12
39.	49.68	72.3	79.0	.28
40.	181.93	74.1	84.2	.57
41.	10.35	80.4	84.9	.07
42.	15.41	78.9	82.0	.08
Total Acreage	4603.08			
Weighted CN		68.3	73.9	

TABLE 2 - WARRIOR RUN STRUCTURES

Structure No.	Location	Description	From Surveys	From Field Reconnaissance
	<u>Main Stream</u>			
1	Baltimore & Ohio Railroad	7.4' x 5.5' Twin Cells	X	
2	U.S. Route 220	18' x 3.7' Twin Cells	X	
3	Church Culvert	20' x 5.2' Box	X	
4	Warrior Drive	18' x 6.2' Box	X	
5	Warrior Drive	36" CMP	X	
6	U.S. Route 53	17' x 3.6' Twin Cells	X	
	<u>Tributary No. 1</u>			
7	Craddock Road	15' x 5' Box	X	
8	Station 5+75	11' x 5' Box	X	
9	Trade Winds Extension	14' x 5.4' Box	X	
10	U.S. Route 53	15.5' x 4' Twin Cells	X	
11	Station 34+60	26.4' Wide Steel Beam Bridge	X	
12	Furniture Store Rd	48" Steel Pipe	X	
13	U.S. Route 53	7' x 5' Box	X	
14	Trailer Park Road	72" Steel Pipe	X	
15	Tresher Drive	42" CMP	X	
16	Fritz Drive	36" CMP	X	
	<u>Tributary No. 2</u>			
17	Fritz Drive	12" x 10" CMPA		X
18	Hill Top Drive	18" x 12" CMPA		X
19	Briarwood Drive and Sobil Drive	24" CMP		X
20	3 Driveways	24" CMPS		X
	<u>Tributary No. 3</u>			
21	Winchester Road	6' x 4' Box	X	
22	Station 1+30	4' x 4' Box	X	
23	Fir Tree Lane	60" CMP	X	
24	Spruce Street	6' x 1' Box		X
25	Redwood Street	3' x 1.5' Box		X
	<u>Tributary No. 4A</u>			
26	Darrows Street	15" CMP		X
27	Oakwood Avenue System	12"-9"-6"-9" CMP		X
28	Wood Street	12" CMP		X
29	Howard Street	12" CMP		X

TABLE 2-WARRIOR RUN STRUCTURES (continued)

Structure No.	Location	Description	From Surveys	From Field Reconnaissance
	<u>Tributary No. 4B</u>			
30	U.S. Route 220	36" CMP	X	
31	Main Street	24" RCP	X	
32	Winchester Street	24" RCP	X	
33	Station 20+60	12" CMP	X	
34	U.S. Route 220	5' x 3' CMPA	X	
	<u>Tributary No. 5</u>			
35	Season Avenue	12.5' x 3.5' Box	X	
36	Dirt Road	8' x 4' Box		X
37	Craddock Road	3' x 2' CMPA		X
38	Dirt Road	5' Steel Pipe		X
	<u>Tributary No. 5A</u>			
39	Dirt Path	12' x 5' Box		X
40	Dirt Road	5' Steel Pipe		X
41	Double Bridges	36" Steel Pipe		X
		5' Steel Pipe		X

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS						ULTIMATE DEVELOPMENT CONDITIONS					
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
124.0	1010	643.7	3131	650.1	6217	651.9	1614	644.3	4236	650.1	7760	651.9
124.1		644.5		649.4		651.9		644.9		649.4		651.9
124.2		644.9		650.9		653.7		646.3		651.3		653.9
125.0		645.3		651.9		654.1		647.1		653.0		654.4
126.0		647.3		652.0		654.2		647.6		653.1		654.6
127.0		654.4		656.1		656.3		655.8		656.1		656.5
128.0		659.4		661.2		662.6		660.2		662.5		663.1
129.0	1088	664.9	3261	667.5	6372	668.0	1704	666.4	4363	667.8	7896	668.4
130.0		673.5		676.6		678.3		675.0		677.4		678.9
131.0		685.2		688.0		689.5		686.7		688.8		690.2
131.1		688.5		690.9		694.1		689.5		691.5		694.9
132.0		688.6		693.4		695.8		689.7		694.6		697.1

TABLE 3

WARRIOR RUN

SECTION	Computed Water Surface Elevations for Each Cross Section				Q in cfs; WSEL in feet							
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS							
MAIN STREAM												
133.0	1088	689.5	3261	695.5	6372	698.0	1704	691.6	4363	696.6	7896	698.8
134.0	1084	696.1	3243	698.2	6335	699.4	1696	696.8	4339	698.8	7849	700.0
134.1		695.9		699.6		701.2		695.9		700.4		701.7
134.2		698.7		701.3		702.8		700.1		701.9		703.9
134.3		700.5		702.8		704.2		701.4		703.4		704.8
134.4		700.7		703.1		704.6		701.7		703.7		705.3
135.0		701.3		704.4		707.2		702.5		705.4		708.2
136.1		706.0		712.5		715.2		707.7		714.1		715.7
136.2		708.9		711.2		717.1		711.7		715.3		718.0
137.0		710.1		717.7		719.7		713.1		718.2		720.6
138.0		711.7		717.9		720.0		713.7		718.4		720.9
150.0		721.2		723.2		725.6		721.5		724.1		726.1

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS						
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
151.0	1057	725.6	3193	729.6	6222	731.5	1633	727.4	4199	730.4	7609	732.3
152.0		731.4		734.2		736.2		732.2		735.0		736.7
152.1		732.2		737.6		738.6		733.6		738.0		739.0
152.2		732.8		738.2		740.6		733.8		739.1		741.5
154.0		734.1		740.3		742.7		737.5		741.3		743.5
158.0	979	739.3	2987	741.4	5834	743.8		739.4		742.4		744.6
159.1		741.8		745.2		747.4		743.5		745.9		748.2
159.2		734.0		743.6		747.8		744.8		746.0		748.9
161.0		743.0		747.1		750.4		745.0		748.5		751.4

Q in cfs; WSEL in feet

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
TRIBUTARY NO. 1												
161.0	979	743.0	2987	747.1	5834	750.4	1505	745.0	3916	748.5	7099	751.4
162.0	423	743.7	1302	747.6	2545	750.7	768	745.7	1922	748.8	3387	751.6
162.1		744.0		747.1		750.4		745.6		748.1		751.4
163.0		744.3		748.3		750.8		747.4		749.5		751.7
164.1		750.7		751.8		752.5		751.2		752.3		753.1
164.2		753.0		754.9		755.6		754.5		755.3		755.8
164.3		755.2		755.5		756.5		755.2		756.1		757.1
164.4		755.3		756.2		757.2		755.5		756.7		757.7
164.5		755.4		756.6		757.8		755.9		757.2		758.4
164.6		755.4		756.7		757.9		755.9		757.3		758.5
164.7		757.0		758.7		760.3		757.8		759.5		760.8

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
165.0	423	761.0	1302	762.5	2545	763.6	768	761.6	1922	763.2	3387	764.4
165.0		764.7		766.6		767.8		765.6		767.3		768.4
165.2		765.7		770.3		771.3		766.6		770.9		771.8
165.3		765.9		770.7		772.2		767.5		771.6		773.0
165.4		766.0		771.6		773.3		767.6		772.6		773.8
165.5		766.1		772.3		774.0		768.4		773.3		774.8
165.6		767.2		772.4		774.1		770.0		773.3		774.8
166.0		773.3		775.4		776.4		774.1		776.0		776.8
167.0		785.9		787.7		787.8		787.1		787.9		787.8
168.0		791.4		793.4		794.0		793.0		793.7		794.4

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet	
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
169.1	455.	796.7	1351	798.2	2557	800.1	838	797.1	1996	799.1	3406	802.4
169.2		796.9		799.3		801.1		798.3		800.7		802.6
170.0		800.9		802.9		804.4		801.9		803.8		805.1
171.1		810.9		812.4		813.5		811.8		813.1		814.0
171.2		812.3		814.2		816.5		813.1		815.5		817.9
171.3		812.6		816.5		820.7		814.7		818.9		823.0
171.4		812.7		816.5		820.7		814.7		818.9		823.1
171.5		812.9		817.0		820.9		815.0		819.2		823.2
171.6		813.5		817.1		820.9		815.1		819.2		823.2
171.9		816.2		817.5		820.9		816.8		819.2		823.2

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
172.0	455	825.0	1351	826.5	2557	826.9	838	825.7	1996	826.5	3406	827.4
172.1		829.6		830.7		831.9		830.4		831.4		832.5
173.1	425	836.6	1206	836.7	2154	836.7	665	836.6	1568	836.6	2600	836.7
173.2		839.0		840.2		841.2		839.4		840.6		841.6
173.3		839.0		840.2		841.1		839.4		840.5		841.4
173.4		845.2		846.8		847.9		845.9		847.3		848.2
174.0		855.0		856.6		857.9		855.5		857.2		858.4
175.0		866.6		868.4		869.6		867.4		868.9		870.1
176.0	243	885.1	682	886.6	1223	886.6	312	885.6	793	886.6	1343	886.7
177.1		891.5		895.9		896.6		892.2		896.1		896.7

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₁₀₀	WSEL ₁₀₀
177.2	243	893.8	682	896.8	1223	898.0	312	895.2	793	897.1	1343	898.1		
178.0		895.5		897.1		897.9		896.5		897.2		898.0		
179.0	106	913.0	331	914.9	612	915.7	152	914.1	404	915.2	699	915.9		
181.1		917.6		918.5		919.5		917.6		918.8		919.8		
181.2		920.1		922.5		925.0		920.6		923.1		925.1		
181.3		920.8		922.7		928.4		921.5		923.1		928.6		
181.4		921.7		923.8		929.2		922.2		924.1		929.3		
181.5		922.5		927.5		929.5		923.3		929.1		929.7		
181.6		927.1		928.6		929.8		927.5		928.9		930.0		

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
181.7	106	937.0	331	938.5	612	940.0	152	937.4	404	938.8	699	940.1
182.1		945.7		947.4		948.7		946.2		947.8		949.0
182.2		955.6		958.1		958.0		956.5		958.2		958.1
182.3		955.7		959.9		960.4		959.5		960.0		960.4
182.4		957.8		960.8		961.5		960.1		961.0		961.7
182.5		960.6		960.9		961.6		960.1		961.1		961.8
184.0		960.5		962.2		963.4		961.0		962.6		963.6
184.5		974.8		975.8		976.7		975.0		976.0		976.9
185.1	70	989.2	242	990.4	472	991.5	111	989.6	310	990.7	560	991.8
185.2		992.8		995.1		995.0		993.7		995.2		995.1

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
185.3	70	1016.9	242	1021.6	472	1022.5	111	1020.5	310	1021.9	560	1022.6
188.0		1018.6		1021.8		1022.9		1020.6		1022.2		1023.3
<u>TRIBUTARY NO. 2</u>												
188.3	45	1072.5	112	1073.5	192	1073.5	51	1072.5	120	1073.5	201	1073.5
188.4		1099		1100		1100		1099		1100		1100

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₁₀₀	WSEL ₁₀₀
<u>TRIBUTARY NO. 3</u>														
154.1	139	734.1	430	740.3	861	742.7	291	737.9	702	741.4	1214	743.6		
154.2		734.3		740.3		742.7		737.9		741.4		743.6		
155.1		734.5		740.3		742.7		737.9		741.4		743.6		
155.2		734.6		740.3		742.7		737.9		741.4		743.6		
155.3		734.8		740.3		742.7		737.9		741.4		743.6		
155.4		735.0		740.3		742.7		737.9		741.4		743.6		
155.5		744.5		745.2		745.8		744.9		745.6		746.2		
155.6		744.9		745.8		746.6		745.5		746.3		747.0		
156.0		750.6		752.1		752.8		751.8		752.6		753.1		
156.1		752.8		753.7		754.3		753.3		754.1		754.8		
156.2		752.9		753.7		754.4		753.4		754.2		754.8		
156.3		753.3		754.1		754.7		753.8		754.5		755.1		

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₁₀₀	WSEL ₁₀₀
156.4	139	753.4	430	754.1	861	754.8	291	753.8	702	754.6	1214	755.2		
157.0		756.0		756.4		756.8		756.3		756.7		757.1		
157.1		756.3		756.8		757.3		756.6		757.1		757.6		
157.2		756.5		757.1		757.6		756.8		757.4		758.0		
157.3		756.6		757.2		757.8		756.9		757.6		758.1		
157.4		765.6		766.3		766.8		766.0		766.7		767.1		
157.5		766.0		766.9		767.4		766.6		767.2		767.8		
157.6		766.5		767.3		767.9		767.0		767.7		768.3		
157.7		766.5		767.3		768.0		767.0		767.8		768.4		
157.8		767.0		768.2		769.2		767.8		768.9		769.7		
157.9		781.1		782.9		784.5		782.2		784.0		785.7		

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂		Q ₁₀	WSEL ₁₀	Q ₁₀₀
129.1	41	685.2	77	685.7	125	685.7	42	685.2	87	685.7	143	685.7
129.2	7	713.0	16	713.4	25	713.4	9	713.0	18	713.4	27	713.4

TRIBUTARY NO. 4A

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet	
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
139.0	79	723.4	161	724.0	258	724.5	106	724.1	203	724.2	335	724.7
139.1		725.4		725.3		725.6		725.3		725.5		725.6
140.0		731.9		732.3		732.4		732.0		732.3		732.5
140.1		732.2		732.5		732.8		732.3		732.7		733.0
141.0		733.7		734.0		734.1		733.9		734.1		734.3
141.1		736.3		736.9		737.4		736.6		737.1		737.7
142.0		746.5		746.8		747.1		746.6		746.9		747.3
142.1		746.8		747.3		747.7		747.0		747.5		748.0
142.2	59	746.8	140	747.3	237	747.8	88	747.0	193	747.5	308	748.1
143.1		753.9		753.9		753.8		753.9		753.9		753.8
143.2		754.8		755.0		755.1		754.9		755.1		755.2

TRIBUTARY NO. 4B

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS					ULTIMATE DEVELOPMENT CONDITIONS					Q in cfs; WSEL in feet	
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
144.0	59	757.3	140	757.6	237	757.6	88	757.4	193	757.6	308	757.8
144.1		757.5		757.8		758.1		757.6		757.9		758.2
145.0		757.4		757.9		758.3		757.6		758.1		758.4
146.0		768.0		768.4		768.7		768.2		768.6		768.9
146.1		770.1		770.5		770.5		770.1		770.4		770.6
146.2		770.3		770.6		770.7		770.4		770.6		770.8
146.3		775.2		775.2		775.3		775.1		775.3		775.4
146.4		775.2		775.4		775.6		775.3		775.5		775.7
147.0	1.0	775.2	8.0	775.4	37	775.7	34	775.3	92	775.6	164	775.9
147.1		782.4		782.9		783.7		783.6		784.5		785.1
148.0		802.6		803.1		803.9		803.8		804.9		805.1
148.1		810.1		810.5		811.3		811.2		812.3		813.3

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	Q in cfs; WSEL in feet											
	EXISTING DEVELOPMENT CONDITIONS			ULTIMATE DEVELOPMENT CONDITIONS								
Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	
149.1	1.0	810.7	8.0	811.3	37	812.4	34	812.3	92	813.6	164	816.9
149.2		813.8	814.3	814.6			814.6	815.0				816.9

TABLE 3

WARRIOR RUN

SECTION	Computed Water Surface Elevations for Each Cross Section						Q in cfs; WSEL in feet					
	EXISTING DEVELOPMENT CONDITIONS			ULTIMATE DEVELOPMENT CONDITIONS			EXISTING DEVELOPMENT CONDITIONS			ULTIMATE DEVELOPMENT CONDITIONS		
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
163.7	148.	792.9	540	795.0	1073	796.0	247	793.6	710	795.3	1293	796.5
163.8		803.8		806.9		808.5		804.7		807.6		809.2
163.9		816.9		819.0		820.5		817.8		819.5		821.2
203.0		829.6		832.0		833.7		830.3		832.7		834.1
203.1		838.0		840.0		841.4		838.8		840.4		841.9
203.2		848.4		850.9		852.2		849.2		851.5		852.7
203.3		861.4		863.4		865.3		862.0		864.2		865.7

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
<u>TRIBUTARY NO. 5</u>												
161.0	979	743.0	2987	747.1	5834	750.4	1505	743.0	3916	748.5	6099	751.4
161.1	562	747.7	1682	750.5	3260	751.0	755	749.5	1993	750.6	3680	751.5
161.2		750.3		751.2		752.0		750.5		751.4		752.0
161.3		750.3		751.2		751.9		750.5		751.4		752.0
161.4		750.5		751.6		752.5		750.8		751.8		752.6
163.0		750.6		751.5		752.4		750.8		751.7		752.5
163.1	559	753.9	1704	755.7	3326	756.9	756	754.4	2028	756.0	3762	757.2
163.2		763.5		765.0		765.7		763.9		765.2		766.0
163.3		766.6		769.1		770.6		767.4		769.5		770.9
163.4		772.2		774.0		775.5		772.6		774.4		775.8
163.5	148	777.7	540	779.9	1073	780.9	247	778.4	710	780.1	1293	781.3
163.6		782.3		784.5		786.8		783.0		785.2		786.8

TABLE 3

WARRIOR RUN

Computed Water Surface
Elevations for Each Cross Section

SECTION	EXISTING DEVELOPMENT CONDITIONS				ULTIMATE DEVELOPMENT CONDITIONS				Q in cfs; WSEL in feet			
	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀	Q ₂	WSEL ₂	Q ₁₀	WSEL ₁₀	Q ₁₀₀	WSEL ₁₀₀
163.4	559	772.2	1704	774.0	3326	775.5	756	772.6	2028	774.4	3762	775.8
200.0	441	779.0	1306	781.1	2511	782.3	556	779.5	1483	781.3	2744	782.6
201.0		787.8		790.4		792.3		788.1		790.8		792.6
202.0		798.1		800.4		802.0		798.5		800.7		802.3
203.0	429	808.2	1273	811.1	2453	812.3	538	808.5	1441	811.4	2674	812.5
204.0		816.0		817.9		820.3		816.5		818.2		820.6
205.0		825.3		827.9		829.8		825.6		828.3		830.1

TRIBUTARY NO. 5A

WARRIOR RUN WATERSHED
TABLE 4 -FLOOD DAMAGE ESTIMATES EXISTING CONDITIONS

* ITEMIZED LOSSES	* 2-YEAR STORM * EXISTING CONDITONS	* 10-YEAR STORM * EXISTING CONDITIONS	* 100-YEAR STORM * EXISTING CONDITIONS
* PRIVATE LOSSES			
* -STRUCTURES	* \$ 128,231	* \$ 365,799	* \$ 825,555
* -CONTENTS	* 60,595	* 173,430	* 412,590
* -EXTERIOR PROPERTIES	* 28,600	* 54,500	* 99,450
* -VEHICLES	* 44,000	* 109,000	* 234,000
* TOTAL PRIVATE LOSSES	* \$ 261,426	* \$ 702,729	* \$ 1,571,595
* PUBLIC LOSSES			
* -EMERGENCY POLICE SERVICES	* \$ 1,015	* \$ 4060	* \$ 4060
* -CITY CLEAN-UP SERVICES	* 3,776	* 9456	* 16384
* -UTILITIES REPAIR SERVICES	* 1,200	* 1200	* 1800
* TOTAL PUBLIC LOSSES	* \$ 5,991	* \$ 14,716	* \$ 22,244
* ABSTRACT LOSSES			
* -LOST WAGES	* \$ 10,560	* \$ 13,080	* \$ 28,080
* -EXTRA MILEAGE COST	* 0	* 0	* 0
* TOTAL ABSTRACT LOSSES	* \$ 10,560	* \$ 13,080	* \$ 28,080
* TOTAL OF ALL LOSSES	* \$ 277,977	* \$ 730,525	* \$ 1,621,919
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)= \$ 393,274			
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES(TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)= \$ 4,427,398			

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WARRIOR RUN WATERSHED
TABLE 5 -FLOOD DAMAGE ESTIMATES ULTIMATE CONDITIONS

* ITEMIZED LOSSES	* 2-YEAR STORM * ULTIMATE CONDITIONS	* 10-YEAR STORM * ULTIMATE CONDITIIONS	* 100-YEAR STORM * ULTIMATE CONDITIONS	*
* PRIVATE LOSSES	*	*	*	*
* -STRUCTURES	* \$ 184,378	* \$ 596,872	* \$ 994,177	*
* -CONTENTS	* 82,475	* 270,215	* 533,850	*
* -EXTERIOR PROPERTIES	* 28,600	* 54,500	* 99,450	*
* -VEHICLES	* 44,000	* 109,000	* 234,000	*
* TOTAL PRIVATE LOSSES	* \$ 339,453	* \$ 1,030,587	* \$ 1,861,477	*
* PUBLIC LOSSES	*	*	*	*
* -EMERGENCY POLICE SERVICES	* \$ 1,015	* \$ 4060	* \$ 4060	*
* -CITY CLEAN-UP SERVICES	* 3,776	* 9456	* 16384	*
* -UTILITIES REPAIR SERVICES	* 1,200	* 1200	* 1800	*
* TOTAL PUBLIC LOSSES	* \$ 5,991	* \$ 14,716	* \$ 22,244	*
* ABSTRACT LOSSES	*	*	*	*
* -LOST WAGES	* \$ 10,560	* \$ 13,000	* \$ 28,000	*
* -EXTRA MILEAGE COST	* 0	* 0	* 0	*
* TOTAL ABSTRACT LOSSES	* \$ 10,560	* \$ 13,000	* \$ 28,000	*
* TOTAL OF ALL LOSSES	* \$ 356,004	* \$ 1,058,383	* \$ 1,911,801	*
* AVERAGE ANNUAL DAMAGES = .45(2-YEAR TOTAL)+.245(10-YEAR TOTAL)+.055(100-YEAR TOTAL)=	* \$ 524,655			*
* PRESENT VALUE OF THE AVERAGE ANNUAL DAMAGES(TAKEN FOR 30 YEARS AT AN INTEREST RATE OF 8%)=	* \$ 5,906,458			*

Table 6. FLOOD MANAGEMENT ALTERNATIVES (continued)

WARRIOR RUN WATERSHED

House ID Code	Base-ment Elevation to 1st Floor	100-Year Flood Elevation in Relationship to 1st Floor Elevation	100-Year Flood Depth Around Foundation or Basement Equal to or Greater Than One Foot	ALTERNATIVES				Comments
				Flood Proof	Flood Insur.	Purchase Candidate	Structural Improvements	
DM DV DU DT DS DR DQ DP DO DN	-	-	-	-	-	-	-	Out of flood zone
DM DL	X	1.5	-6.5	X	X	X	X	Commercial use
DH-19 DI-6 DG-14		1.5 0	-	X X	X X	X X	X X	Trailers Trailers Trailer - FF above flood elevations
DE DF	X X	-1.0 -3.0	- -	X X	X X	X X	X X	Replace 11' x 5' box culvert with three 6' x 4' box culverts for a 2-yr. design (\$21,400)
DD-13 DJ DK		0 0.5 -	X	X	X	X	X	Commercial use Out of flood zone Commercial use
DX DX-1 DY DZ EA EB	X	- 4.5 -5.0	X	X	X	X	X	Out of flood zone FF above flood elevation FF above flood elevation FF above flood elevation
EC ED EE EF EG		- - - - -						Out of flood zone Out of flood zone Out of flood zone Out of flood zone Out of flood zone
EJ-4 EJ-3 EJ-2 EJ-1 EI-9 EI-7 EI-6 EI-5 EI-4 EI-3 EI-2 EI-10	X X X X X X X X X X X X	2.5 - -1.0 -2.5 -0.5 -5.0 1.0 -1.0 1.0 -1.0 3.0 -1.0	- - - - - - - - - - - -	X X X X X X X X X X X	X X X X X X X X X X X	X X X X X X X X X X X	X X X X X X X X X X X	Purchase not recommended FF above flood elevation Purchase not recommended Replace storm drainage system with a 2-year design (\$175,000). Not economically justified.
TRIBUTARY NO. 1								
TRIBUTARY NO. 3								
TRIBUTARY NO. 4A								

Table 6. FLOOD MANAGEMENT ALTERNATIVES (continued)

WARRIOR RUN WATERSHED

House ID Code	Base-ment	100-Year Flood Elevation in Relationship to 1st Floor Elevation	100-Year Flood Depth Around Foundation or Basement Equal To or Greater Than One Foot	ALTERNATIVES				Comments
				Flood Proof	Flood Insur.	Purchase Candidate	Structural Improvements	
TRIBUTARY NO. 4B								
EH-1	X	-4.5	-	X	X			Out of flood zone
EI-1		-	-					Out of flood zone
EI		-	-					Out of flood zone
EJ		-	-					Out of flood zone
EK		-	-					Out of flood zone
EL	X	-5.0	-	X	X			Out of flood zone
EM		-	-					Out of flood zone
EN		-	-					Out of flood zone
EO		-	-					Out of flood zone
EP		-	-					Out of flood zone
EQ		-	-					Out of flood zone
ER	X	-3.0	-	X	X			FF above flood elevation
ES		-	-					Out of flood zone
ET		-	-					Remove culvert adjacent to House FB
EU		-	-					Out of flood zone
EV		-	-					Out of flood zone
EW		-	-					Out of flood zone
EX		-	-					Out of flood zone
EY		-	-					Out of flood zone
EZ		-	-					Out of flood zone
FA	X	-1.0	-	X	X			Out of flood zone
FB		-	-					Out of flood zone
FC		-	-					Out of flood zone
TRIBUTARY NO. 5								
DD	X	0		X	X	X		Out of flood zone
DD-1		-						Purchase not recommended
DD-2	X	2.5		X	X			Out of flood zone
DD-3	X	2.5		X	X			Purchase not recommended
DD-4	X	0.5	X	X	X			Purchase not recommended
DD-5	X	-3.0	X	X	X			Purchase not recommended
DD-6	X	0.5	X	X	X			Purchase not recommended
DD-7	X	-2.0	X	X	X			Purchase not recommended
DD-8		-						Out of flood zone
DD-9		-						Out of flood zone
DD-10	X	0.5		X	X			Out of flood zone
DD-11	X	2.0		X	X			Purchase not recommended
DD-12	X	2.5		X	X			Purchase not recommended