

Stormwater Management Summary

Table 1 - Existing Conditions Peak Flows

Study Point	Drainage Area	Peak Discharges of Various Storm Frequency (cfs)					
		1-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	249.16	17.71	77	94.02	164.66	226.07	343.08
B	462.9	20.44	111.01	130.82	263.57	427.78	791.92
C	70.89	0.02	1.81	2.84	11.17	21.18	42.65

Table 2- Proposed Conditions Peak Flows

Study Point	Drainage Area	Peak Discharges of Various Storm Frequency (cfs)					
		1-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	251.66	16.57	68.68	77.78	129.21	185.7	283.15
B	463	17.06	99.31	120.61	242.5	342.38	538.33
C	68.35	0.02	1.39	2.19	9.33	18.16	37.34

Water Quality & Runoff Reduction Summary

<u>Required</u>	
1) Water Quality required =	35.726 ac-ft

<u>Provided</u>	
2) Runoff reduction volume by conservation area =	23.15 ac-ft
3) Runoff reduction volume by Buffer/ Filter Strip Area =	0.37 ac-ft
4) Runoff reduction volume by Infiltration Basin (SWM 11) =	0.22 ac-ft
5) Total runoff reduction provided =	23.74 ac-ft
5) Minimum required runoff reduction volume =	8.53 ac-ft
6) Water quality volume provided by wet extended pond =	16.5 ac-ft
7) Water quality volume provided by underground sand filter =	1.39 ac-ft
8) Total water quality volume provided =	18.11 ac-ft
9) Total runoff reduction and water quality volume provided =	41.85 ac-ft

Water quality and runoff reduction volume provided is greater than required water quality volume.