

25 yr Storm event:
 Volume 2,788 cf,
 Peak flow 0.82 cfs

Mitigation - Difference between the existing 2 yr and proposed 25 yr.

2788-719 = 2069 cf The required volume

Storage Provided:

System #1 1113 cf(available) Exfiltration (25 yr) 1038 cf

Total 2,151 cf Thus we exceed the required mitigation requirement of 2069 cf

The following table summarizes the pre verses post runoff volumes and peak flows for storm events up to the 100 year.

Design Storm	Volume (cf)		Peak Flow (cfs)	
	Pre	Post	Pre	Post
1 yr., 6 hr	447	194	0.25	0.10
2 year, 3.1"	719	357	0.19	0.09
5 yr., 24 hr	1212	669	0.35	0.20
10 year, 4.5"	1518	865	0.45	0.26
25 year, 5.3"	2047	1207	0.63	0.38
100 year, 6.5"	2906	1769	0.91	0.57

Conclusion

The proposed storm water management system provides onsite mitigation and improved landscaping. In doing so, it reduces runoff from the site in peak flow and in volume for all storm events when comparing pre construction conditions with post construction conditions.