

Pre- and Post-Development Runoff and Volume

Nicholas Pentico, Brian Edwards / LArc 380 / Gary Austin/Spring 2014

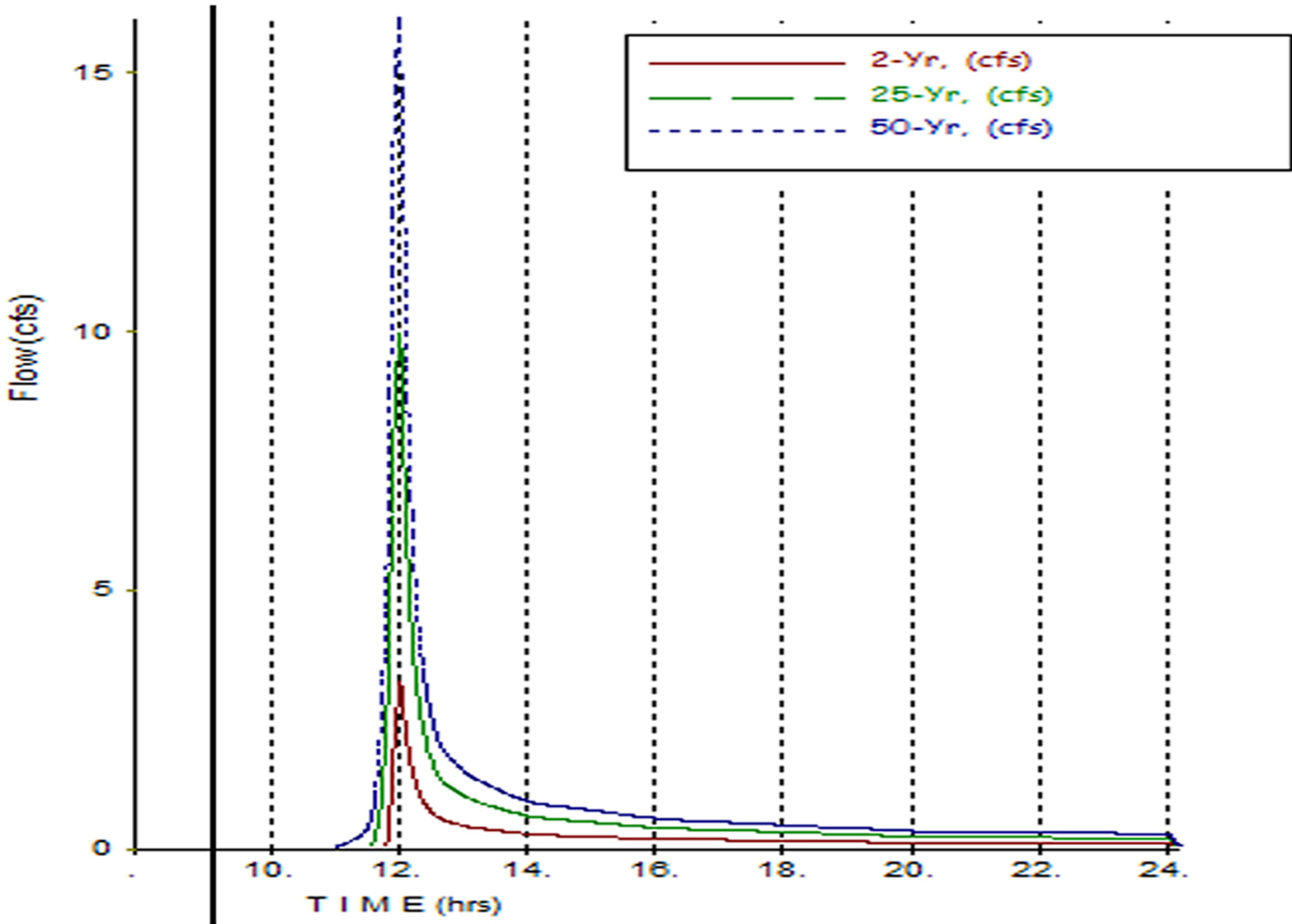
WinTR-55 Output Hydrograph

Project: Task 3

2/24/2014

Monthly Rooftop runoff

Subarea: (Pre Develo) Storms: 2-Yr, 10-Yr, 25-Yr
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		(L-Bldng) Impervious Harvesting monthly (gal)	Pinwheel Impervious Bldng Harvesting Monthly (gal)	(L-Bldng) Greenroof Harvesting monthly (gal)	Pinwheel Greenroof Bldng Harvesting Monthly (gal)	L-Bldng Toilet Flush water usage (gal)	Pinwheel Toilet Flush water usage (gal)
Jan	3.23	380526	271804	363614	259724	15624	15624
Feb	2.01	236798	169141	226273	161624	14112	14112
Mar	1.96	230907	164934	220645	157603	15624	15624
Apr	1.79	210880	150629	206190	143934	14112	14112
May	1.77	208523	148946	199256	145636	15624	15624
Jun	1.72	202633	144738	193627	138305	5040	5040
Jul	0.58	68329	48807	65293	46638	5208	5208
Aug	0.85	100138	71527	95688	68349	5208	5208
Sep	1.19	140194	100139	133963	95688	14112	14112
Oct	1.90	223839	159885	213890	152779	15624	15624
Nov	3.02	355786	254133	339973	242838	14112	14112
Dec	3.35	394663	281903	377123	269373	15624	15624
Total	23.37	2753220	1966586	2630854	1879182	150024	150024
Run-off Coefficient		90%	90%	86%	86%		

Post Development Plan
- Sub areas denoted with blue catch
stormwater run-off

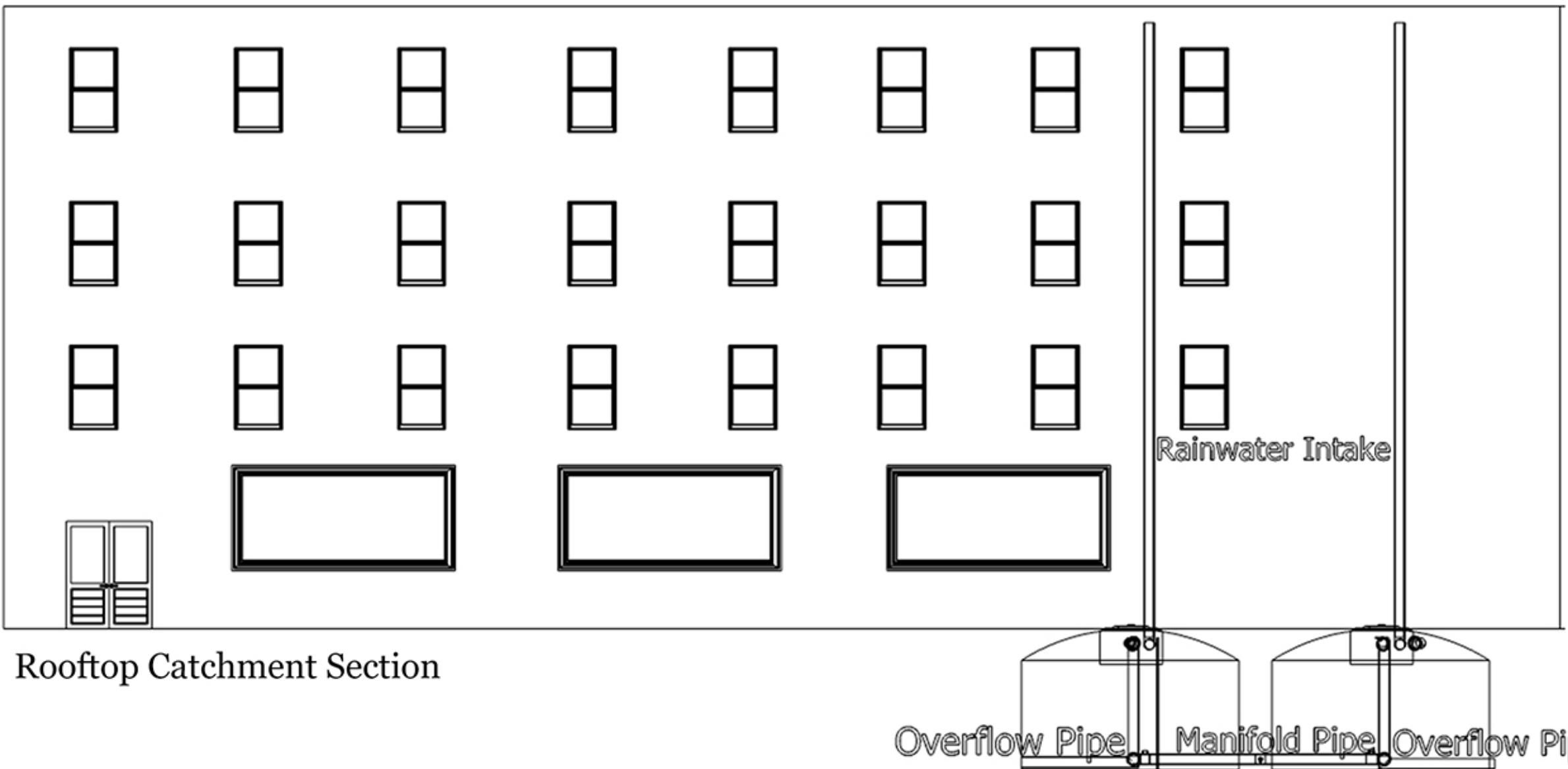
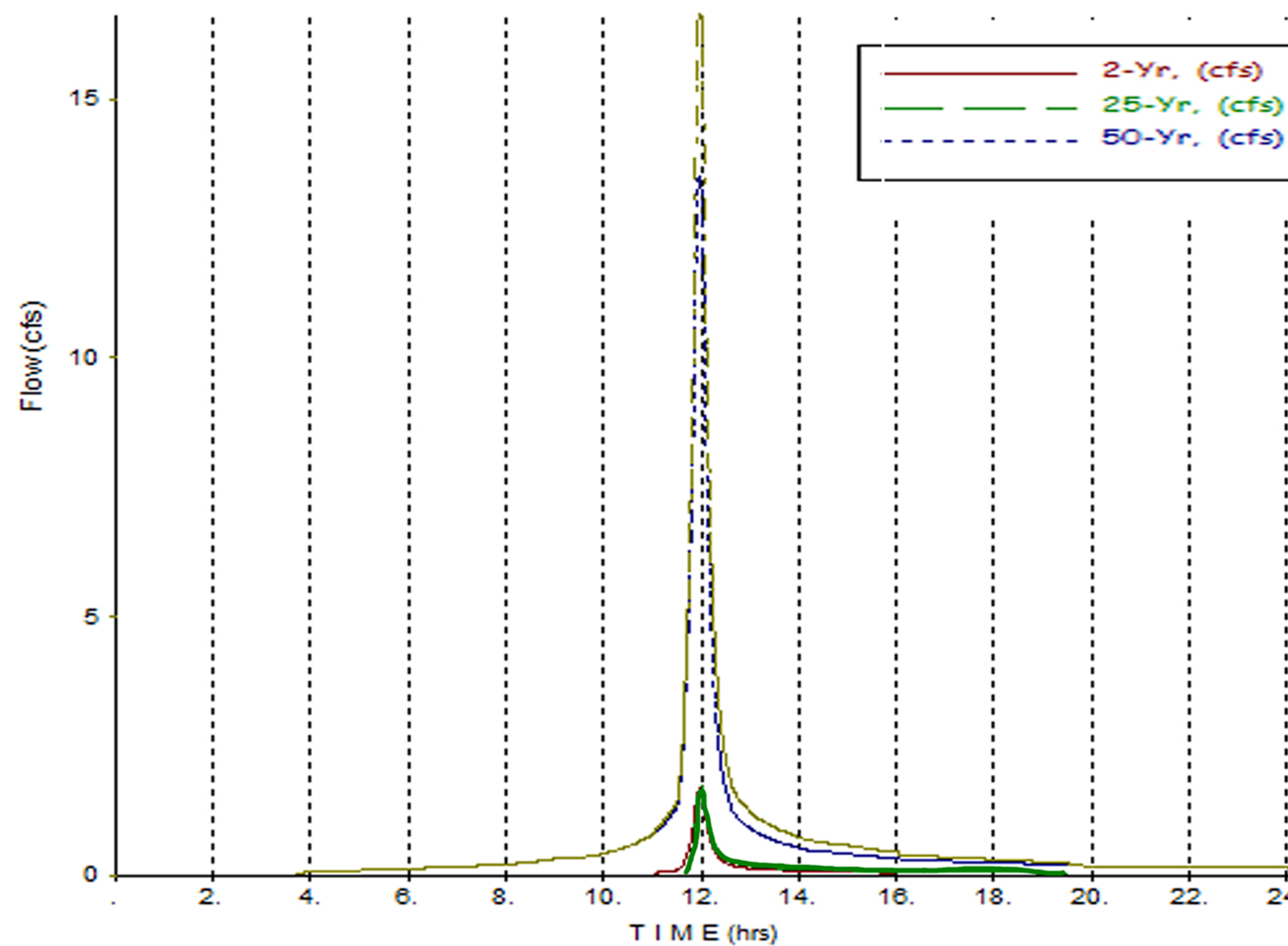


WinTR-55 Output Hydrograph

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Subarea: (Post Devel) Storms: 2-Yr, 10-Yr, 25-Yr, 1-Yr
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Rooftop Catchment Section

		Peak Run-off CFS	Run-off depth Inches	Time Peak Run-off	Run-off depth in Feet
Pre Development	2 Yr	3.21	0.261	12.03	0.021
	10 Yr	9.95	0.665	12.02	0.055
	25 Yr	16.07	1.037	12.01	0.086
Post Development	2 Yr	1.68	0.718	12	0.14
	10 Yr	4.11	0.901	12.02	0.34
	25 Yr	6.13	1.331	12.01	0.51