

EXISTING DRAINAGE HYDROGRAPH

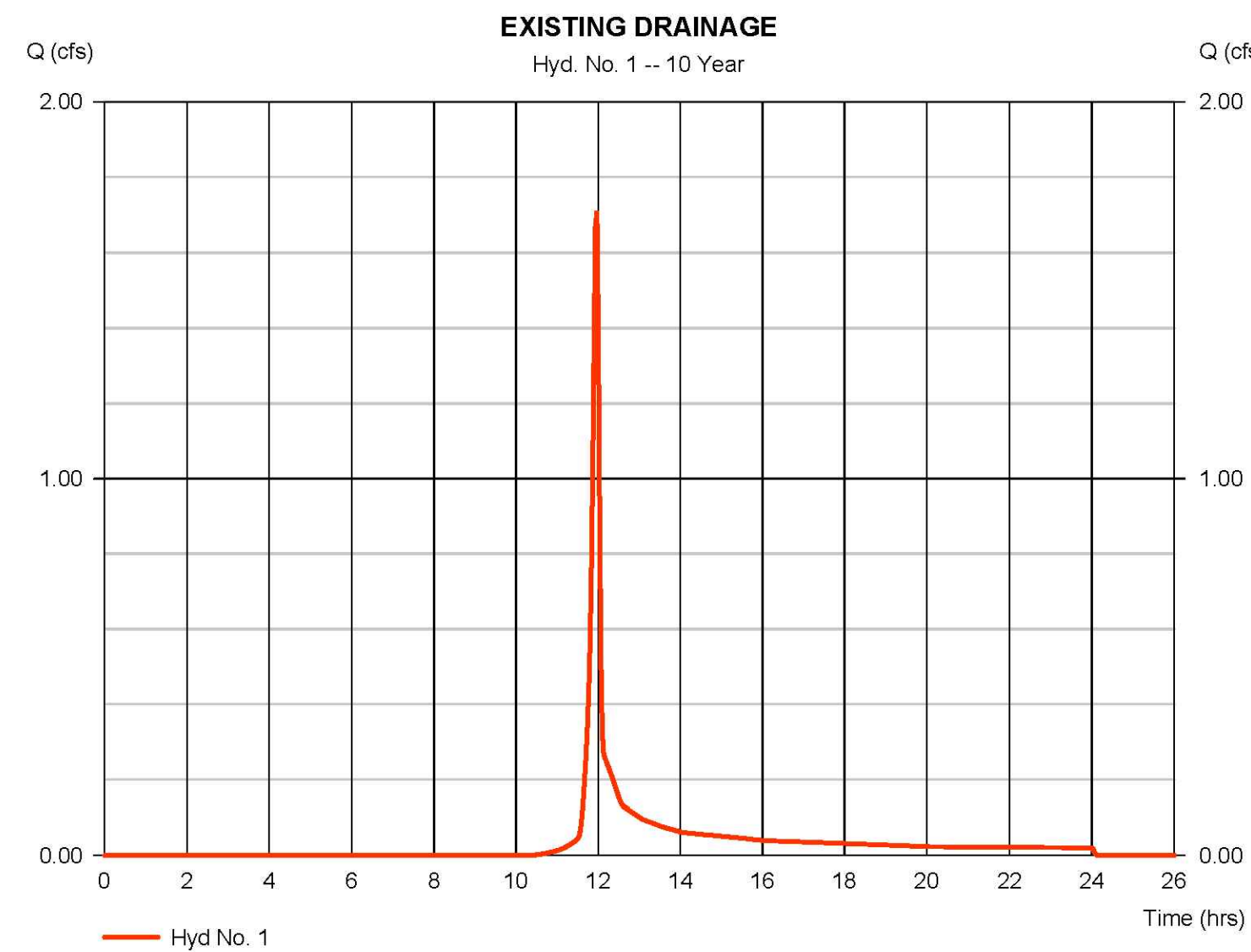
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020 Monday, 06 / 24 / 2019

Hyd. No. 1

EXISTING DRAINAGE

Hydrograph type	= SCS Runoff	Peak discharge	= 1.709 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 3,417 cuft
Drainage area	= 0.568 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.84 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



PROPOSED DRAINAGE HYDROGRAPH TO OFFSITE

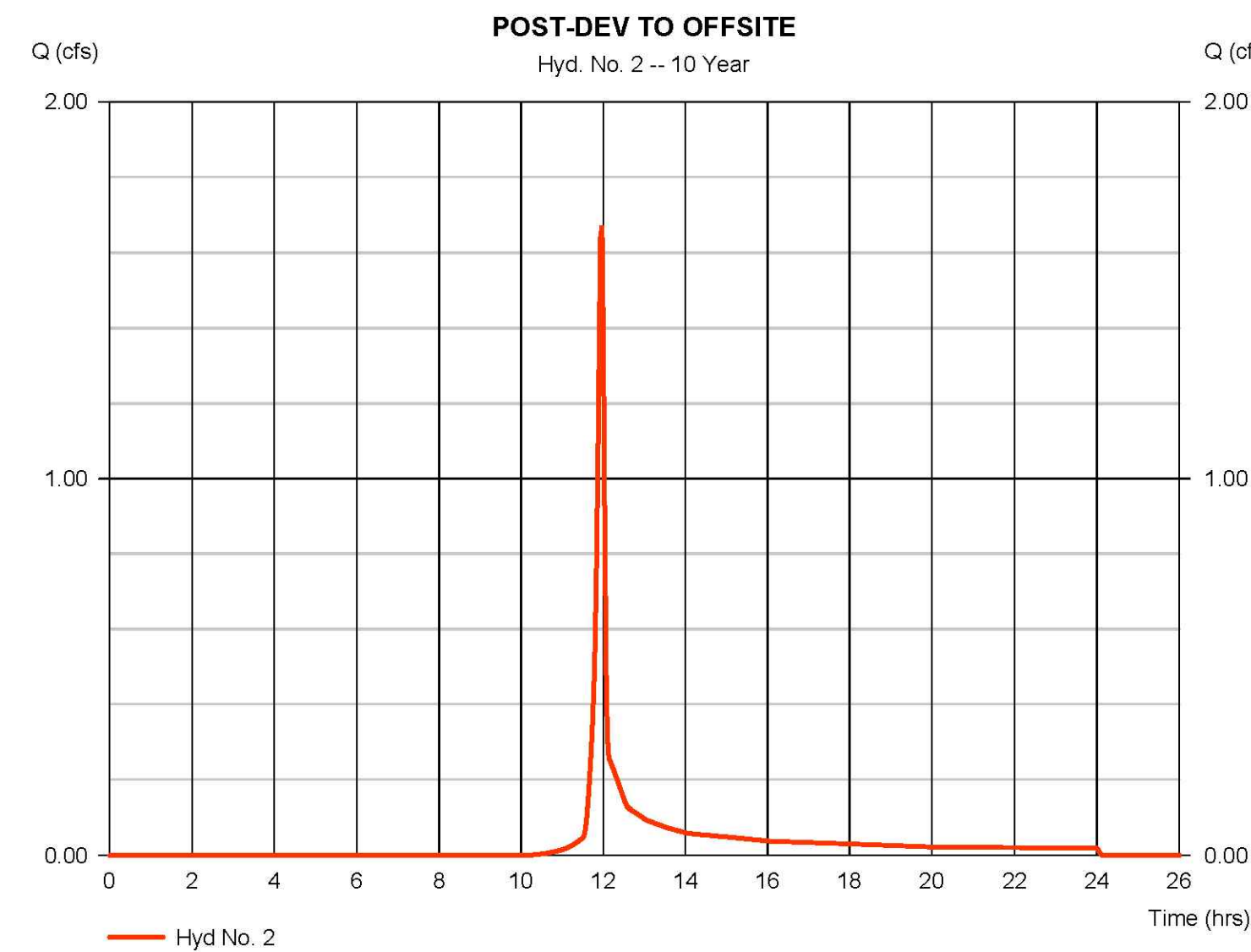
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 07 / 16 / 2019

Hyd. No. 2

POST-DEV TO OFFSITE

Hydrograph type	= SCS Runoff	Peak discharge	= 1.672 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 3,344 cuft
Drainage area	= 0.534 ac	Curve number	= 69
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.84 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



PROPOSED DRAINAGE HYDROGRAPH TO LORCOM LANE

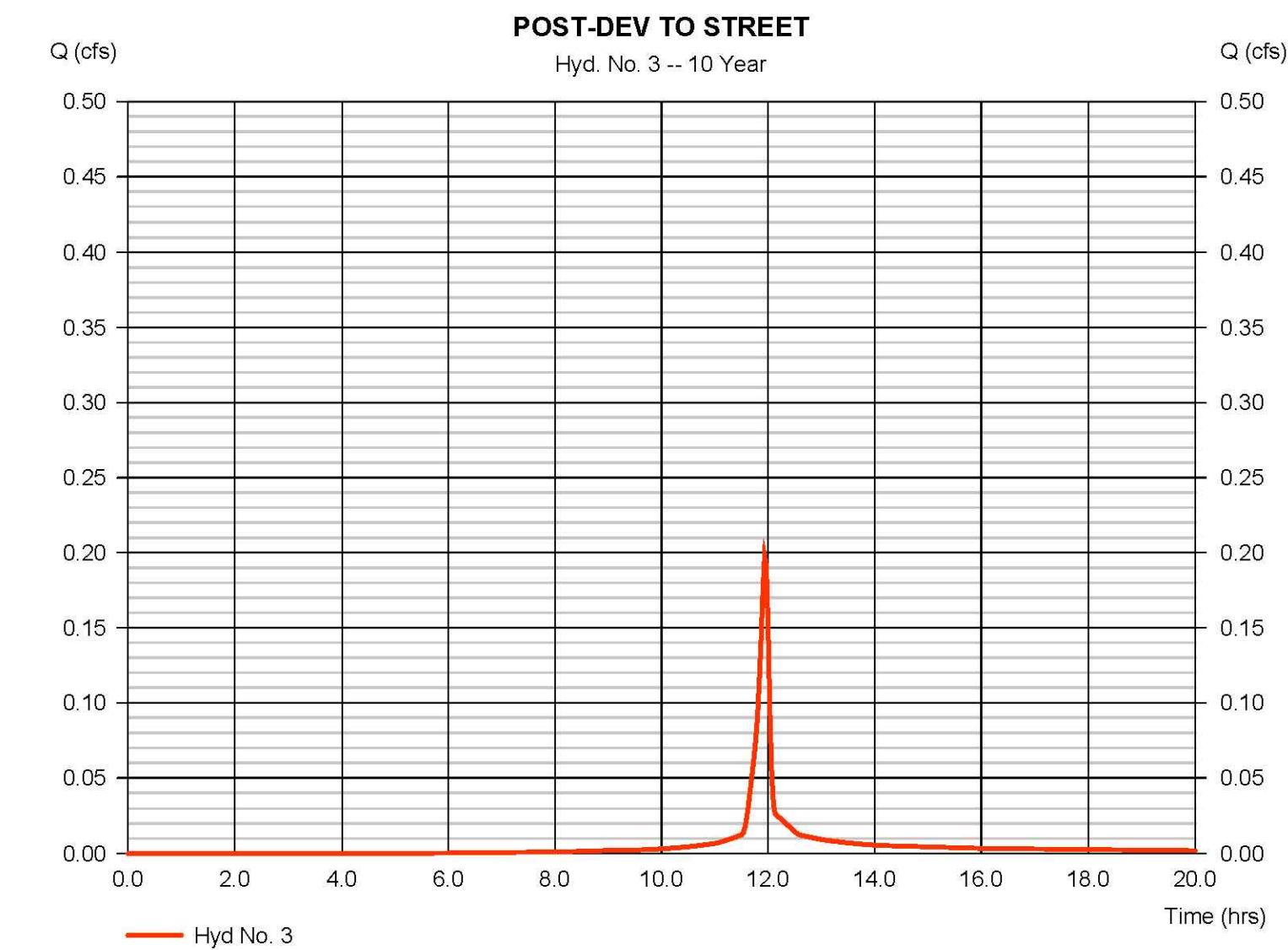
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 07 / 16 / 2019

Hyd. No. 3

POST-DEV TO STREET

Hydrograph type	= SCS Runoff	Peak discharge	= 0.198 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 417 cuft
Drainage area	= 0.035 ac	Curve number	= 88
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.84 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

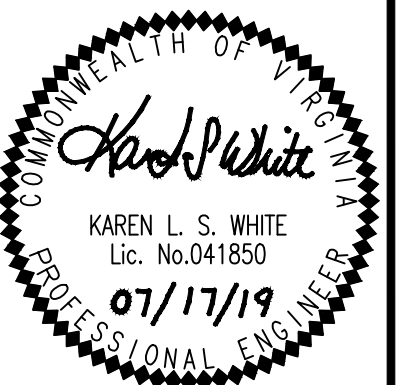


ADJUSTED CURVE NUMBER TO OFFSITE

Drainage Area A		A Soils	B Soils	C Soils	D Soils	Total Area (acres): 0.5335
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres)	0.0000	0.0000	0.0000	0.0000	
	CN	30	55	70	77	Volume (ft³): 125.0121
Managed Turf -- disturbed, graded for yards or other turf to be mowed/managed	Area (acres)	0.0000	0.4040	0.0000	0.0000	
	CN	39	61	74	80	
Impervious Cover	Area (acres)	0.0000	0.1295	0.0000	0.0000	
	CN	98	98	98	98	
		CN(D.A.A)				
		70				
		1-year storm	2-year storm	10-year storm		
RV _{Developed} (watershed-inch) with no Runoff Reduction*		0.5490	0.7991	1.9185		
RV _{Developed} (watershed-inch) with Runoff Reduction*		0.4845	0.7346	1.8539		
Adjusted CN*		68	69	69		

ADJUSTED CURVE NUMBER TO LORCOM LANE

Drainage Area B		A Soils	B Soils	C Soils	D Soils	Total Area (acres): 0.0348
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres)	0.0000	0.0000	0.0000	0.0000	
	CN	30	55	70	77	Volume (ft³): 42.7500
Managed Turf -- disturbed, graded for yards or other turf to be mowed/managed	Area (acres)	0.0000	0.0065	0.0000	0.0000	
	CN	39	61	74	80	
Impervious Cover	Area (acres)	0.0000	0.0283	0.0000	0.0000	
	CN	98	98	98	98	
		CN(D.A.B)				
		91				
		1-year storm	2-year storm	10-year storm		
RV _{Developed} (watershed-inch) with no Runoff Reduction*		1.7842	2.2114	3.8269		
RV _{Developed} (watershed-inch) with Runoff Reduction*		1.4460	1.8732	3.4887		
Adjusted CN*		87	87	88		



CURVE NUMBER AND DISCHARGE CALCULATIONS

WALTER L. PHILLIPS INCORPORATED ESTABLISHED 1945

Engineers • Surveyors • Planners
Landscape Architects • Arborists
207 PARK AVENUE
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ARLINGTON, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

4219/4221 LORCOM LANE
THE PROPERTY OF R.A. PHILLIPS
GRADING PLAN
4219/4221 LORCOM LANE, ARLINGTON, VIRGINIA 22207

SCALE: 1" = 25' DRAWN CR CHECKED TP/BKW

SUBMITTED DATE 03/05/2019
05/07/2019
06/24/2019
07/17/2019

APPROVED DATE
DIRECTOR OF ENVIRONMENTAL SERVICES

SHEET: **C-0701A**