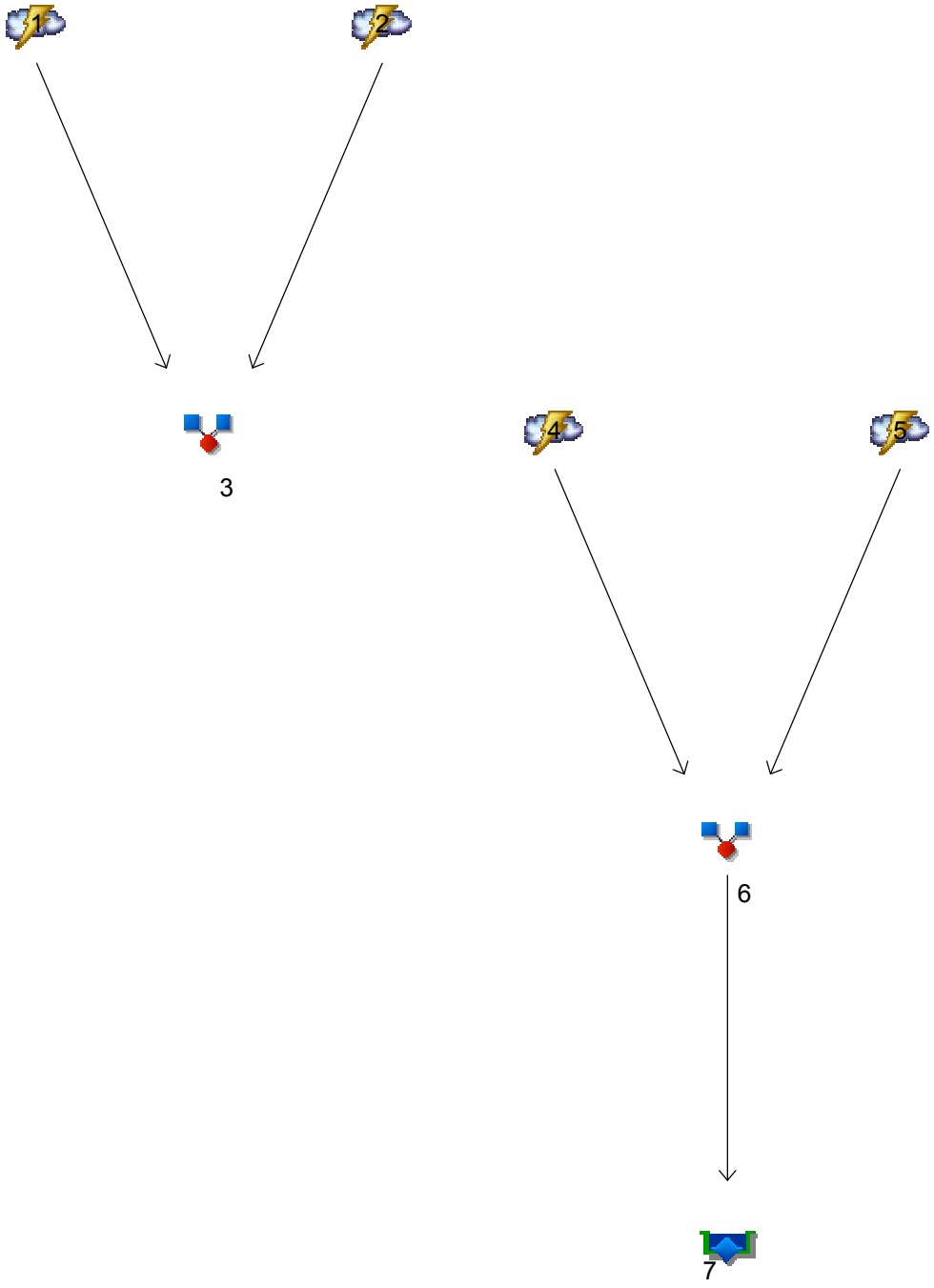
Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

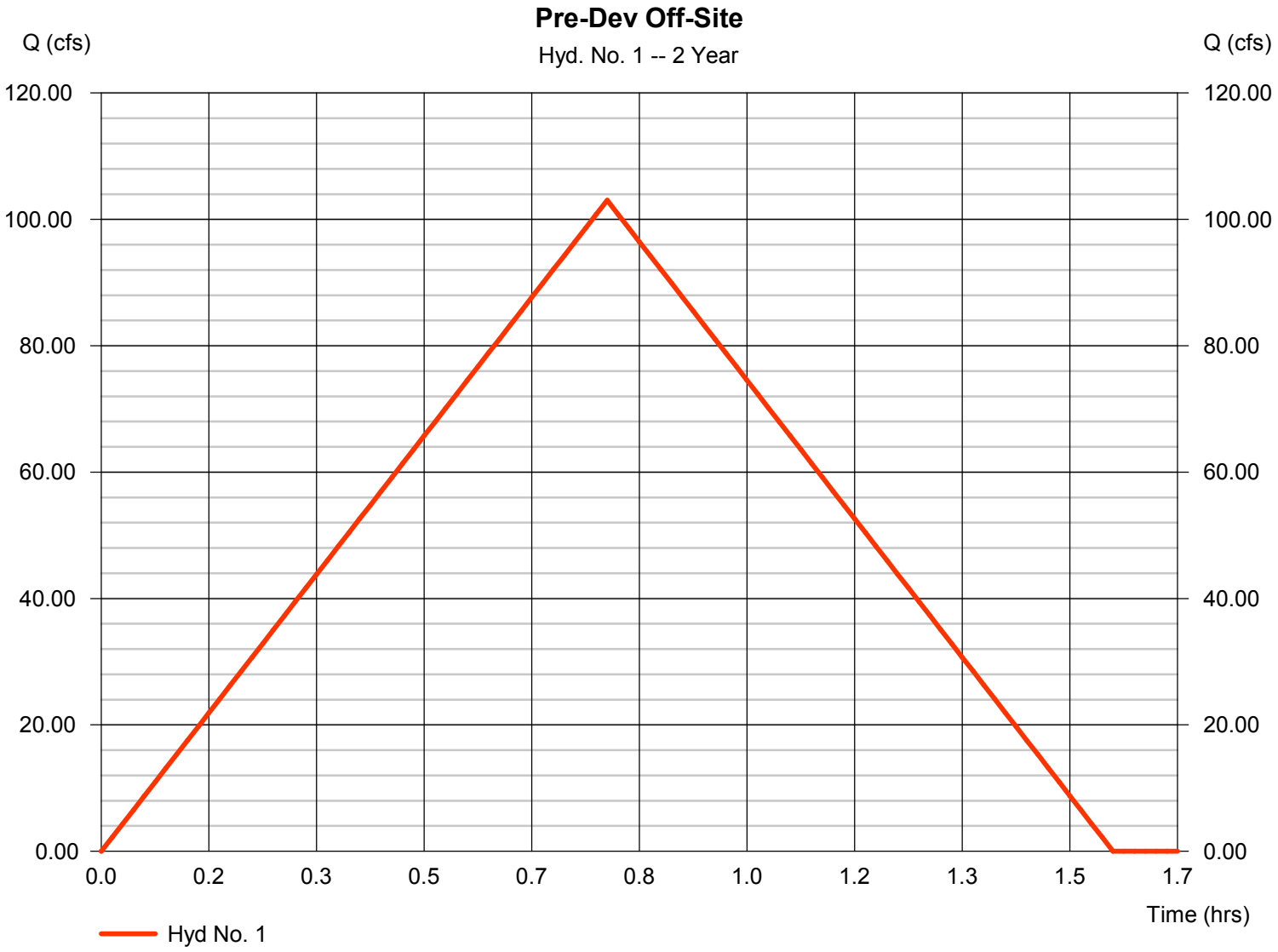
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	103.02	1	47	290,504	------	------	------	Pre-Dev Off-Site
2	Rational	9.854	1	47	27,789	------	------	------	Pre-Dev On-Site
3	Combine	112.87	1	47	318,293	1, 2	------	------	Pre-Development
4	Rational	103.02	1	47	290,504	------	------	------	Post-Dev Off-Site
5	Rational	23.03	1	47	64,945	------	------	------	Post-Dev On-Site
6	Combine	126.05	1	47	355,449	4, 5	------	------	Post-Development
7	Reservoir	101.53	1	56	355,456	6	405.29	53,783	Post-Dev Through Pond

Hydrograph Report

Hyd. No. 1

Pre-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 103.02 cfs
Storm frequency	= 2 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 290,504 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 2.164 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

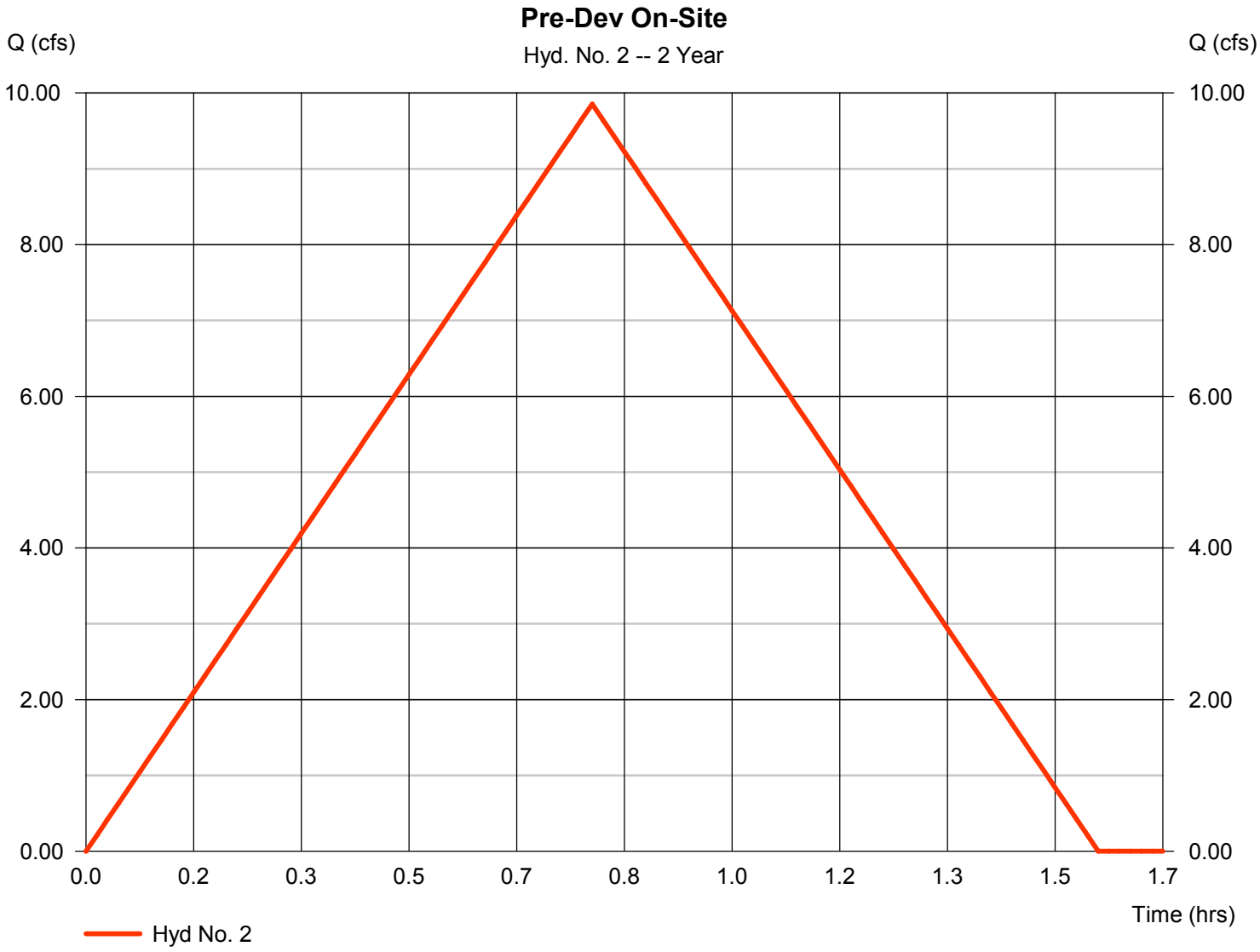


Hydrograph Report

Hyd. No. 2

Pre-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	9.854 cfs
Storm frequency	=	2 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	27,789 cuft
Drainage area	=	13.800 ac	Runoff coeff.	=	0.33
Intensity	=	2.164 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

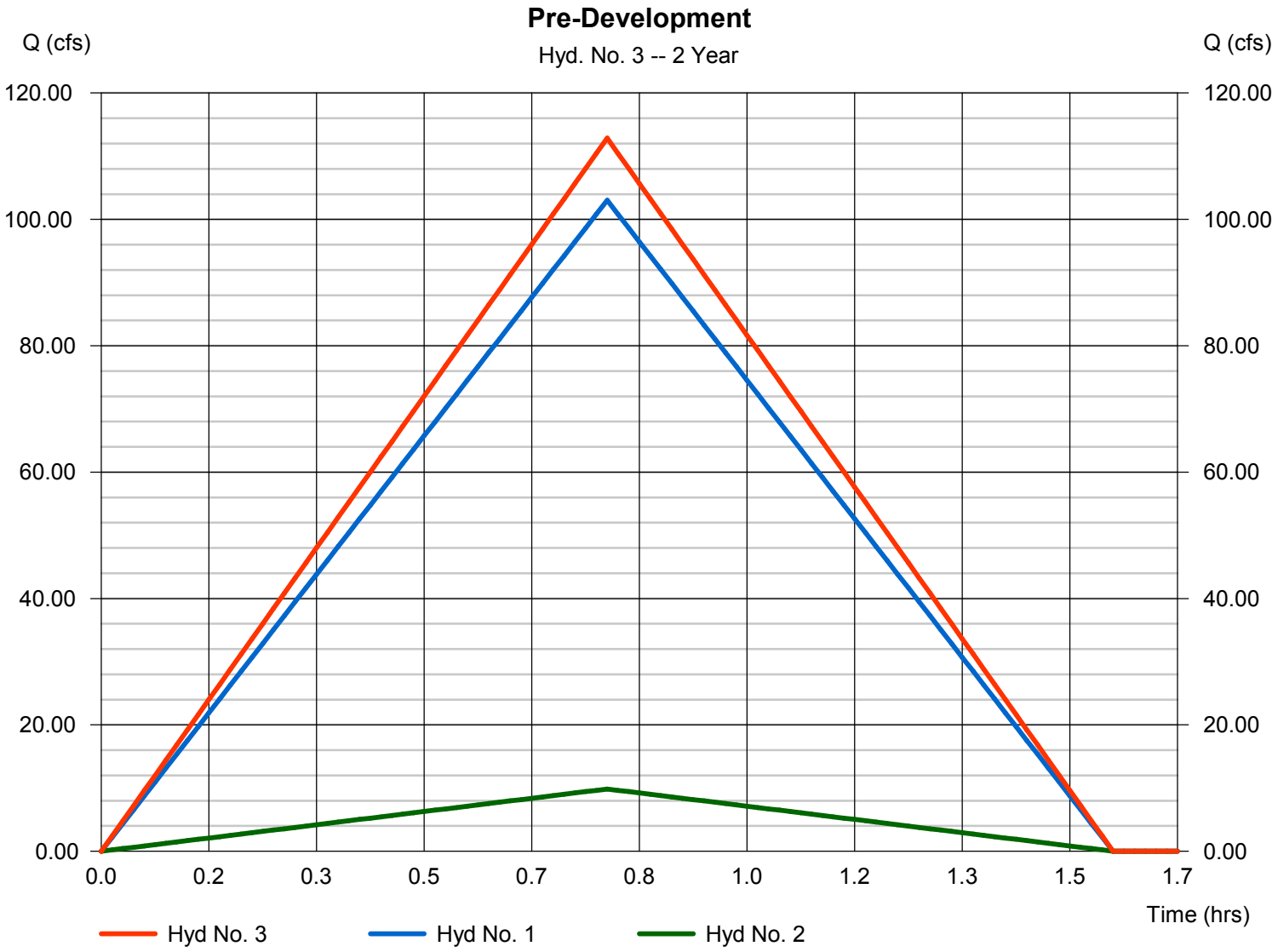


Hydrograph Report

Hyd. No. 3

Pre-Development

Hydrograph type	= Combine	Peak discharge	= 112.87 cfs
Storm frequency	= 2 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 318,293 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 122.000 ac

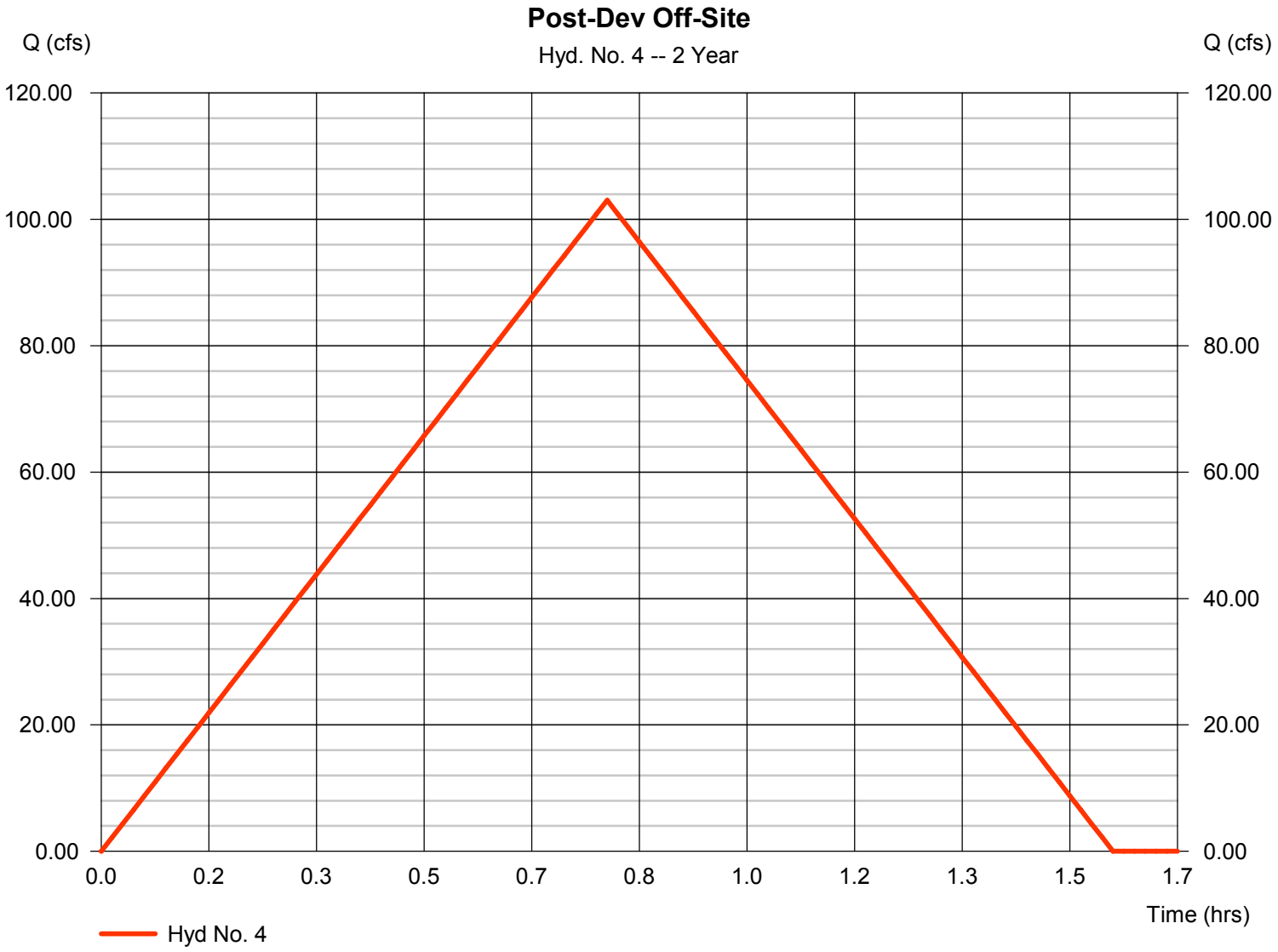


Hydrograph Report

Hyd. No. 4

Post-Dev Off-Site

Hydrograph type	=	Rational	Peak discharge	=	103.02 cfs
Storm frequency	=	2 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	290,504 cuft
Drainage area	=	108.200 ac	Runoff coeff.	=	0.44
Intensity	=	2.164 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

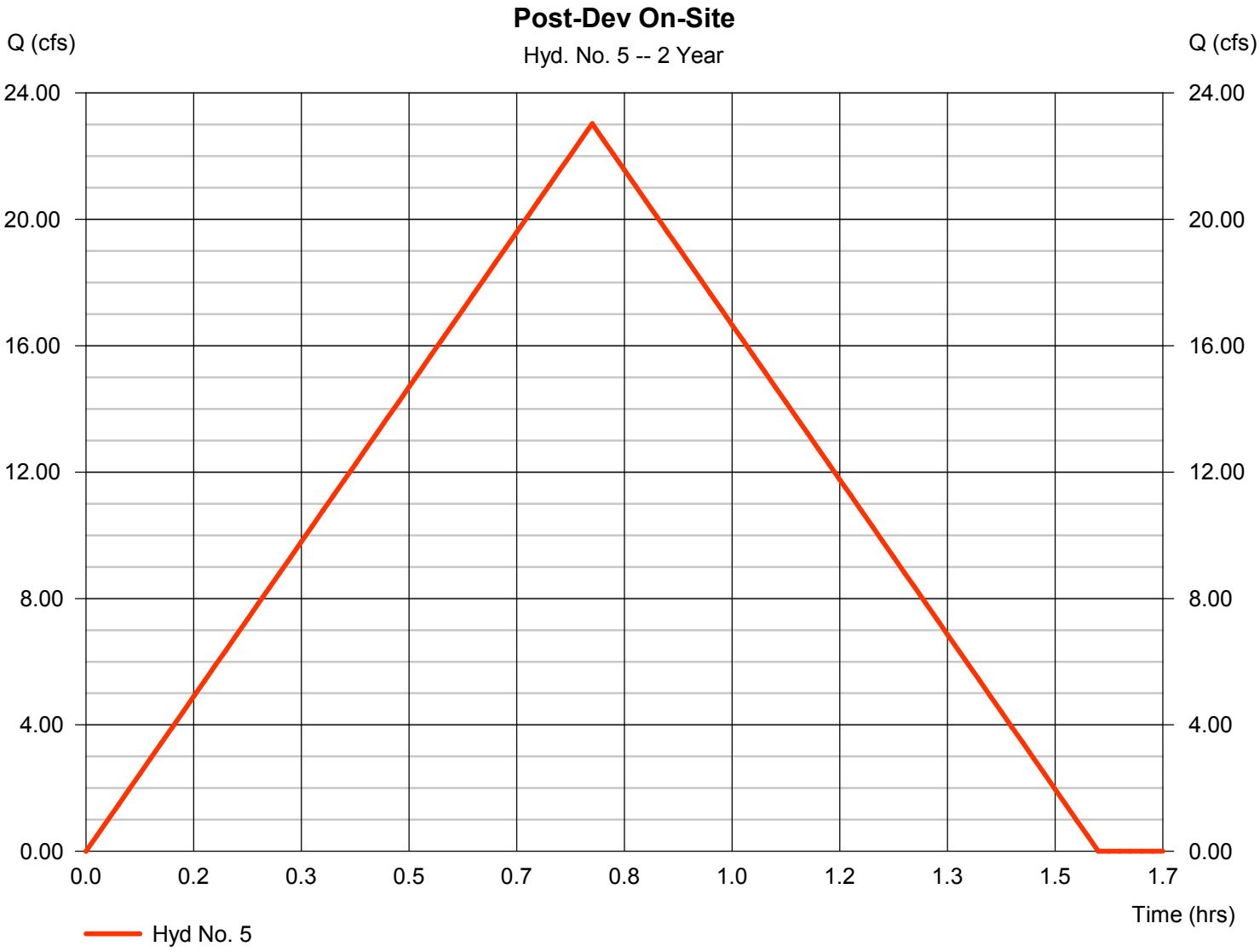


Hydrograph Report

Hyd. No. 5

Post-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	23.03 cfs
Storm frequency	=	2 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	64,945 cuft
Drainage area	=	16.630 ac	Runoff coeff.	=	0.64
Intensity	=	2.164 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

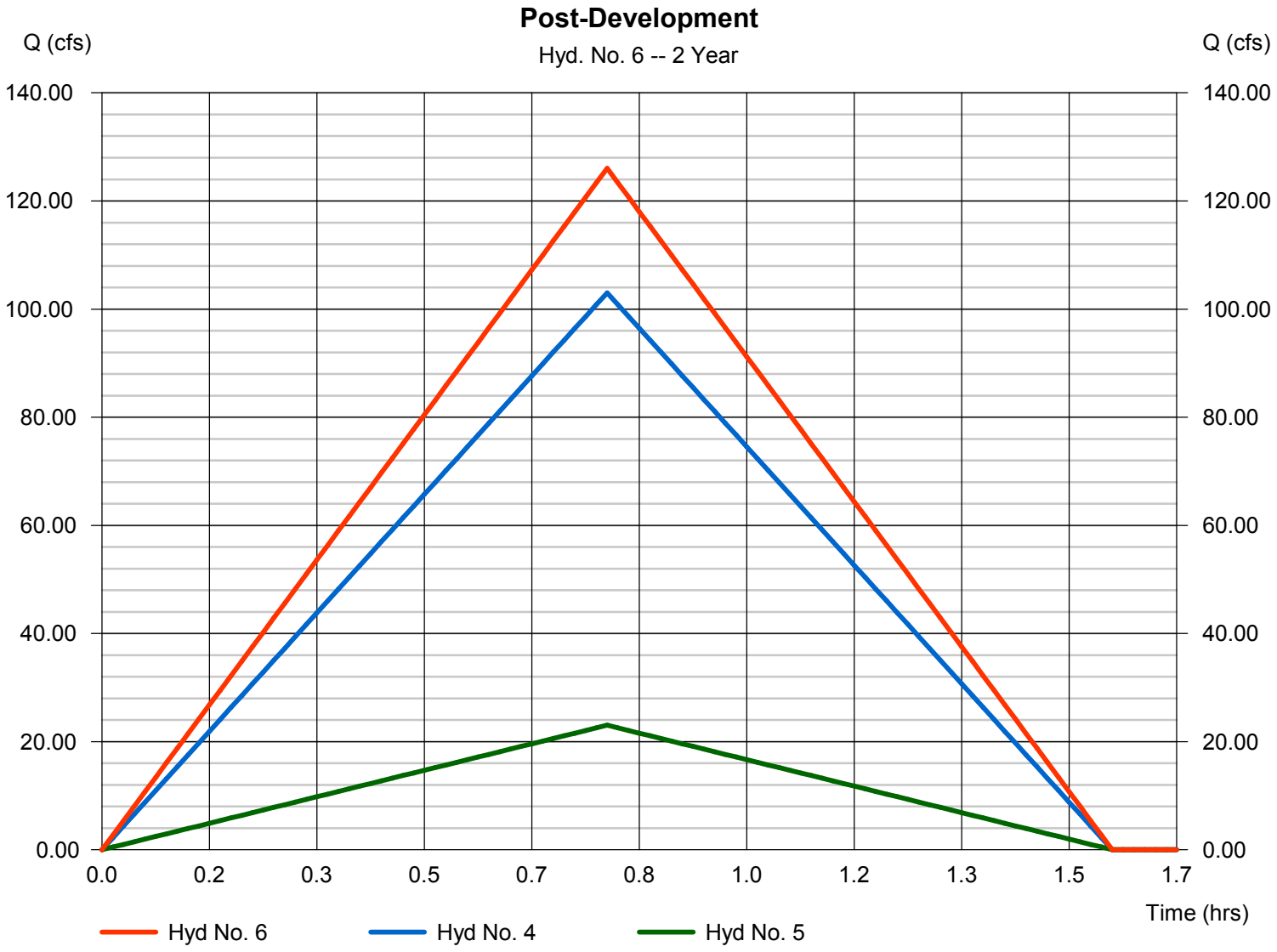


Hydrograph Report

Hyd. No. 6

Post-Development

Hydrograph type	= Combine	Peak discharge	= 126.05 cfs
Storm frequency	= 2 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 355,449 cuft
Inflow hyds.	= 4, 5	Contrib. drain. area	= 124.830 ac



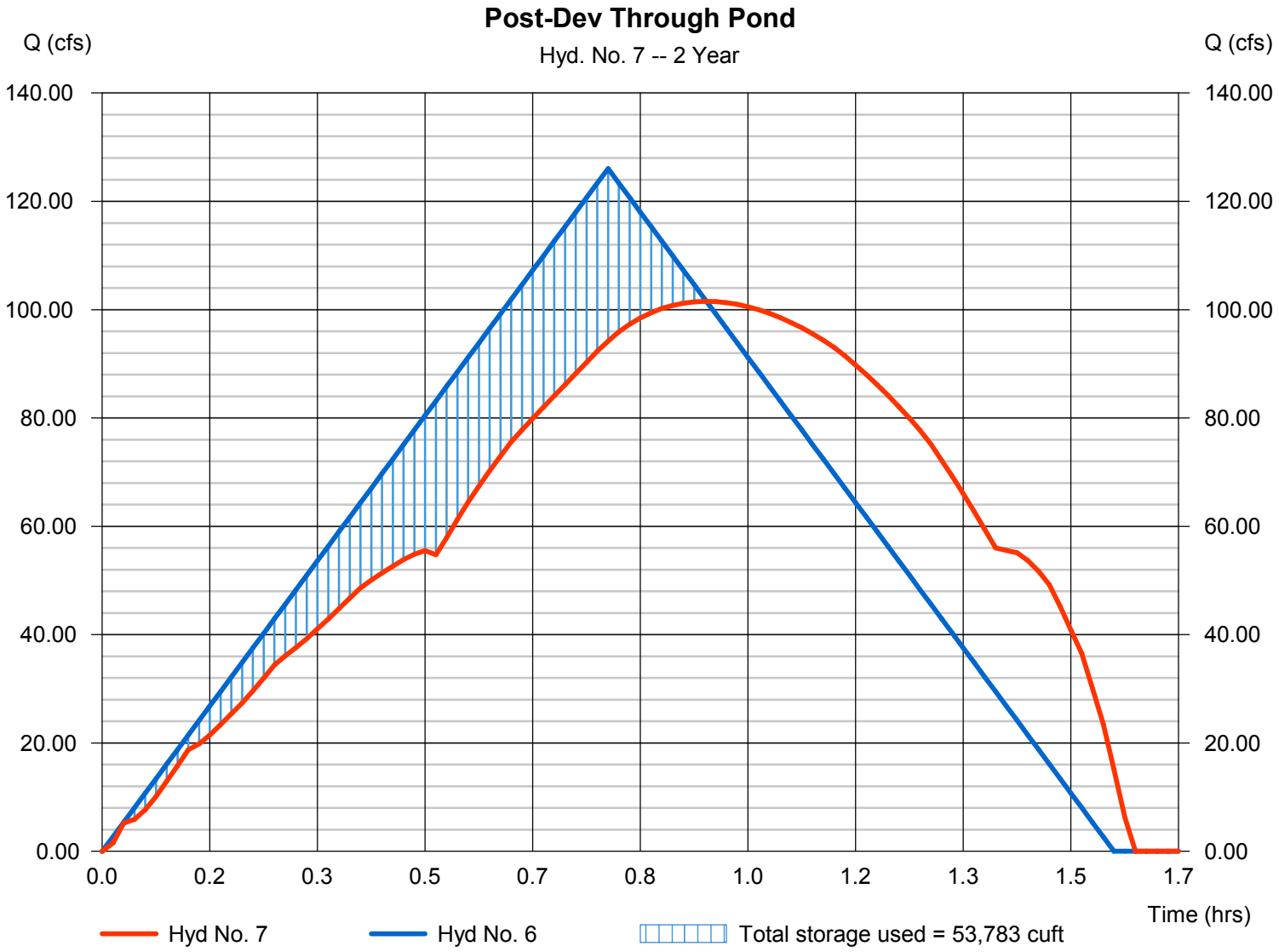
Hydrograph Report

Hyd. No. 7

Post-Dev Through Pond

Hydrograph type	=	Reservoir	Peak discharge	=	101.53 cfs
Storm frequency	=	2 yrs	Time to peak	=	0.93 hrs
Time interval	=	1 min	Hyd. volume	=	355,456 cuft
Inflow hyd. No.	=	6 - Post-Development	Max. Elevation	=	405.29 ft
Reservoir name	=	East Det Pond	Max. Storage	=	53,783 cuft

Storage Indication method used.



Pond Report

Pond No. 1 - East Det Pond

Pond Data

Contours -User-defined contour areas. Average end area method used for volume calculation. Begining Elevation = 401.50 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	401.50	00	0	0
0.50	402.00	255	64	64
1.00	402.50	3,653	977	1,041
1.50	403.00	9,474	3,282	4,323
2.00	403.50	14,595	6,017	10,340
2.50	404.00	20,306	8,725	19,065
3.00	404.50	25,788	11,524	30,589
3.50	405.00	29,963	13,938	44,526
4.00	405.50	33,298	15,815	60,342
4.50	406.00	36,162	17,365	77,707
5.00	406.50	38,653	18,704	96,410
5.50	407.00	40,595	19,812	116,222
6.00	407.50	42,385	20,745	136,967
6.50	408.00	44,136	21,630	158,598
7.00	408.50	45,894	22,508	181,105
7.50	409.00	47,673	23,392	204,497

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	Inactive	30.00	0.00	0.00
Span (in)	= 44.00	30.00	0.00	0.00
No. Barrels	= 1	3	0	0
Invert El. (ft)	= 401.50	401.50	0.00	0.00
Length (ft)	= 0.00	105.00	0.00	0.00
Slope (%)	= 0.00	0.50	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

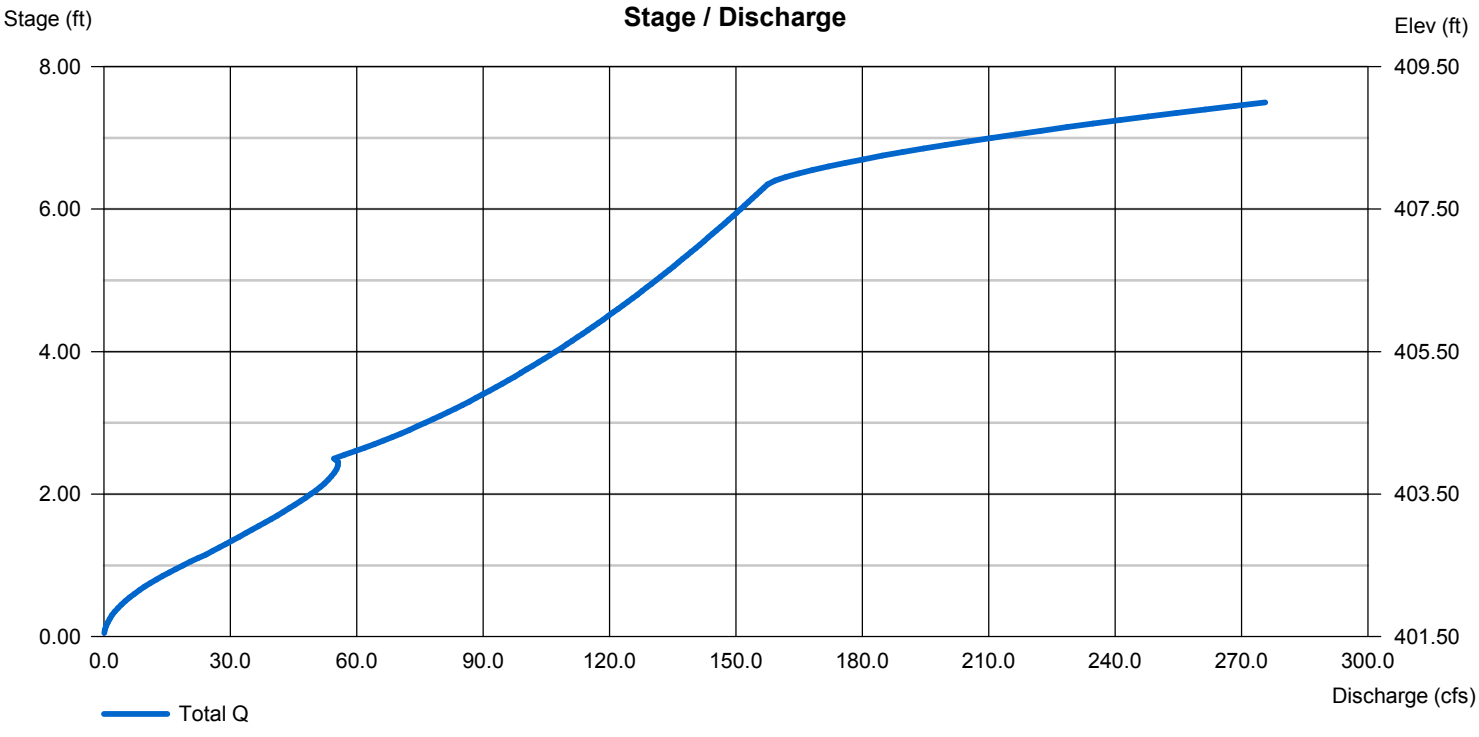
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 24.00	0.00	0.00	0.00
Crest El. (ft)	= 407.85	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Rect	---	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

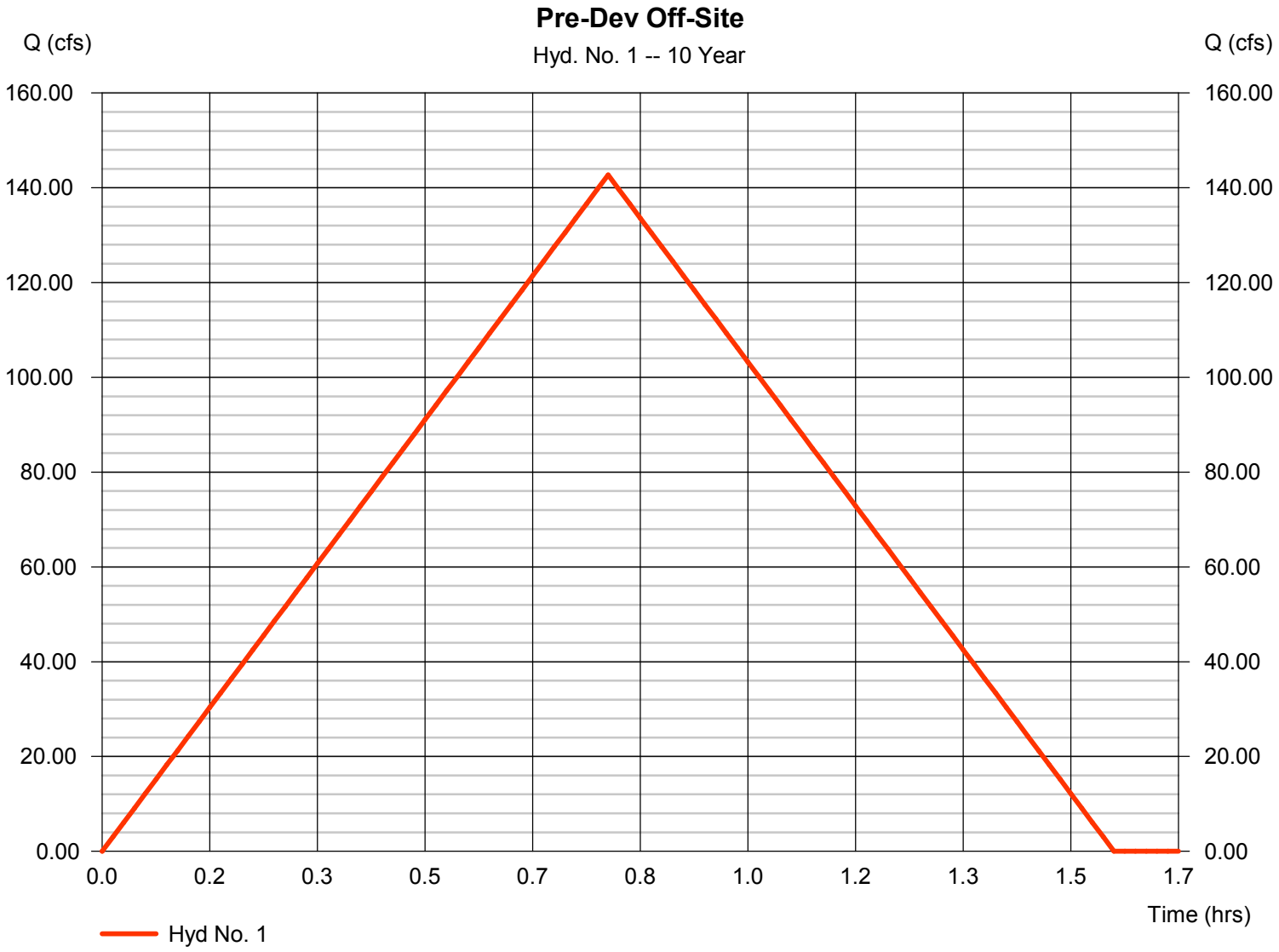
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	142.70	1	47	402,404	------	------	------	Pre-Dev Off-Site
2	Rational	13.65	1	47	38,492	------	------	------	Pre-Dev On-Site
3	Combine	156.35	1	47	440,896	1, 2	------	------	Pre-Development
4	Rational	142.70	1	47	402,404	------	------	------	Post-Dev Off-Site
5	Rational	31.90	1	47	89,961	------	------	------	Post-Dev On-Site
6	Combine	174.60	1	47	492,365	4, 5	------	------	Post-Development
7	Reservoir	130.10	1	59	492,392	6	406.46	94,896	Post-Dev Through Pond

Hydrograph Report

Hyd. No. 1

Pre-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 142.70 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 402,404 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 2.997 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

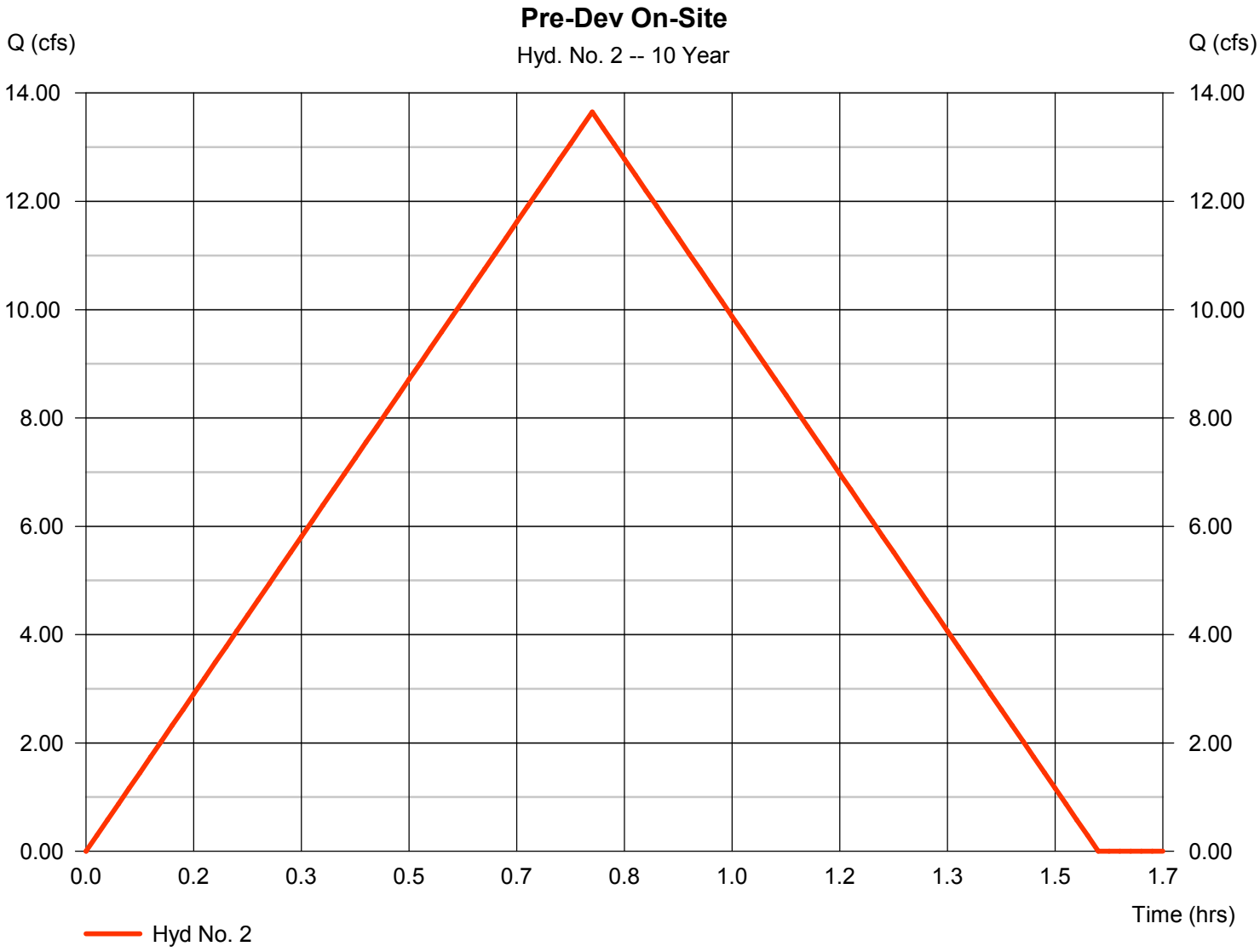


Hydrograph Report

Hyd. No. 2

Pre-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	13.65 cfs
Storm frequency	=	10 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	38,492 cuft
Drainage area	=	13.800 ac	Runoff coeff.	=	0.33
Intensity	=	2.997 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

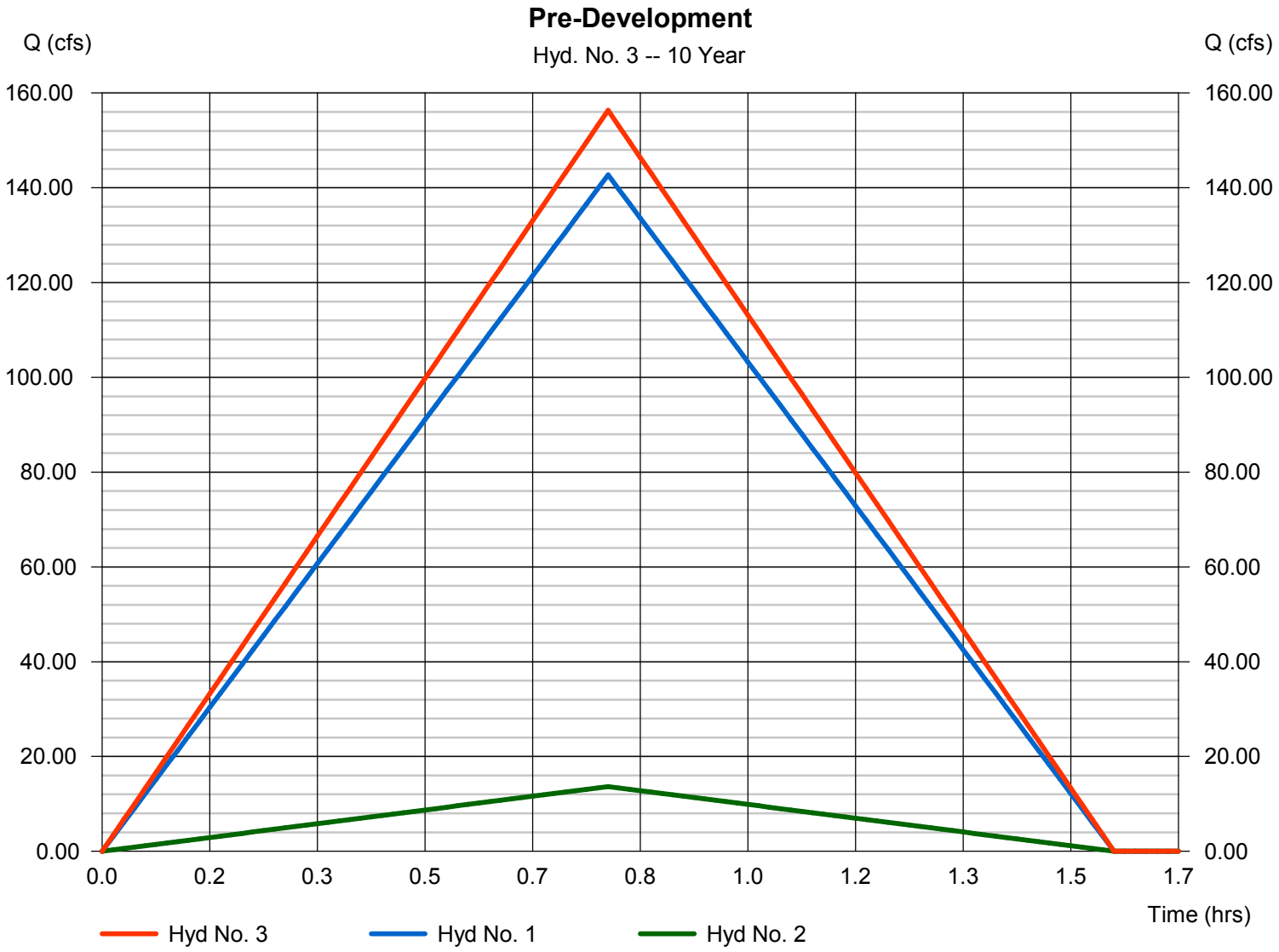


Hydrograph Report

Hyd. No. 3

Pre-Development

Hydrograph type	= Combine	Peak discharge	= 156.35 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 440,896 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 122.000 ac

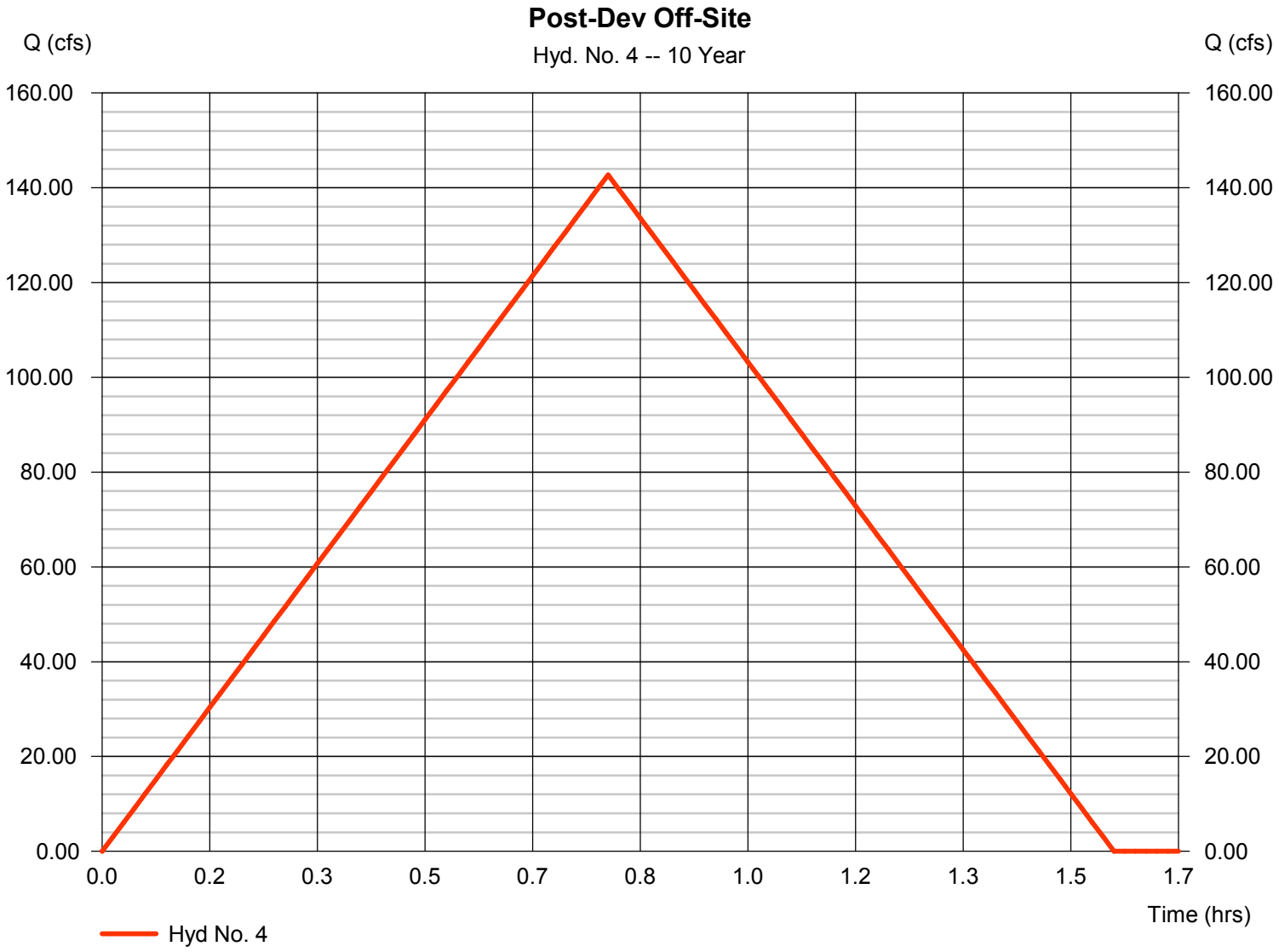


Hydrograph Report

Hyd. No. 4

Post-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 142.70 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 402,404 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 2.997 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

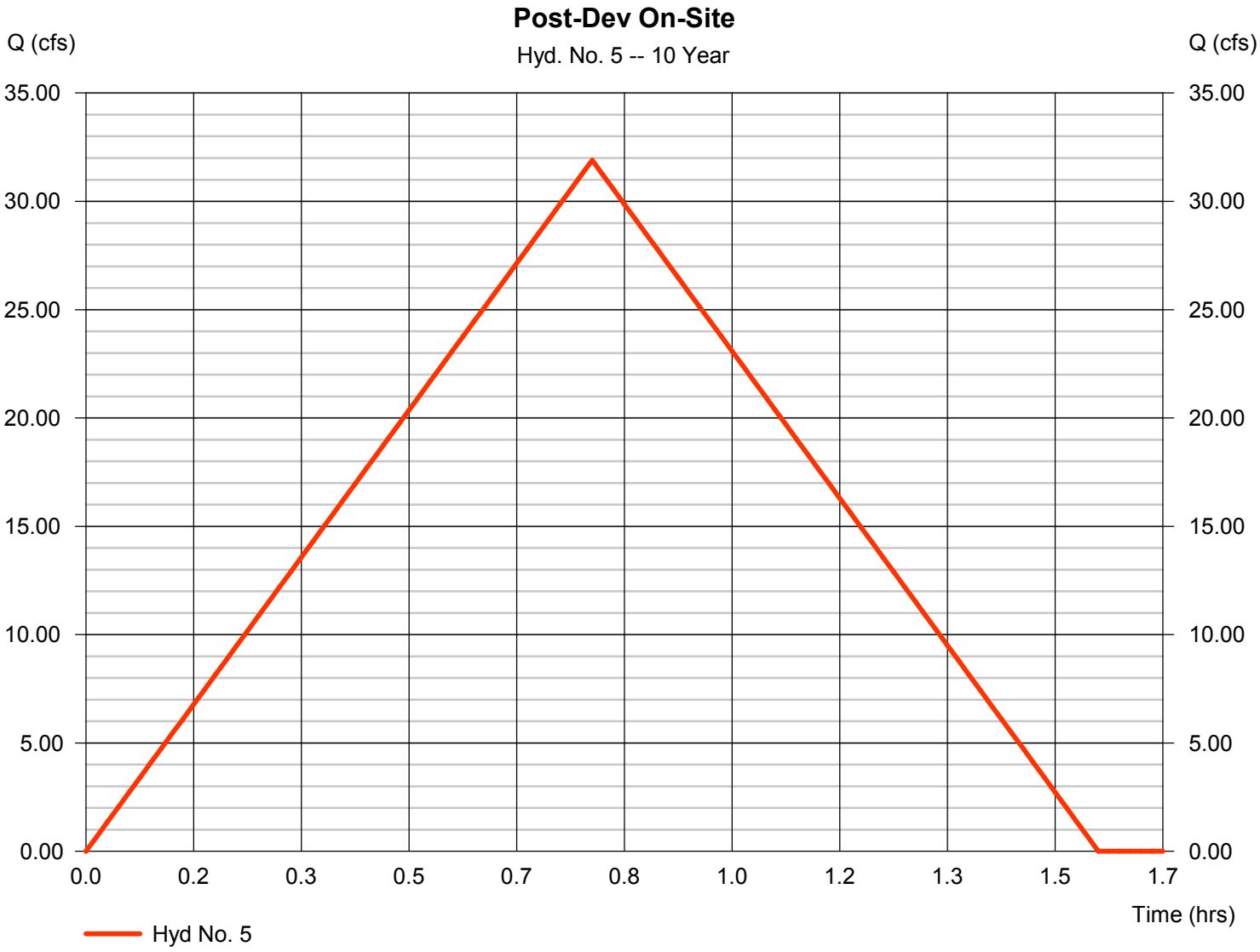


Hydrograph Report

Hyd. No. 5

Post-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	31.90 cfs
Storm frequency	=	10 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	89,961 cuft
Drainage area	=	16.630 ac	Runoff coeff.	=	0.64
Intensity	=	2.997 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

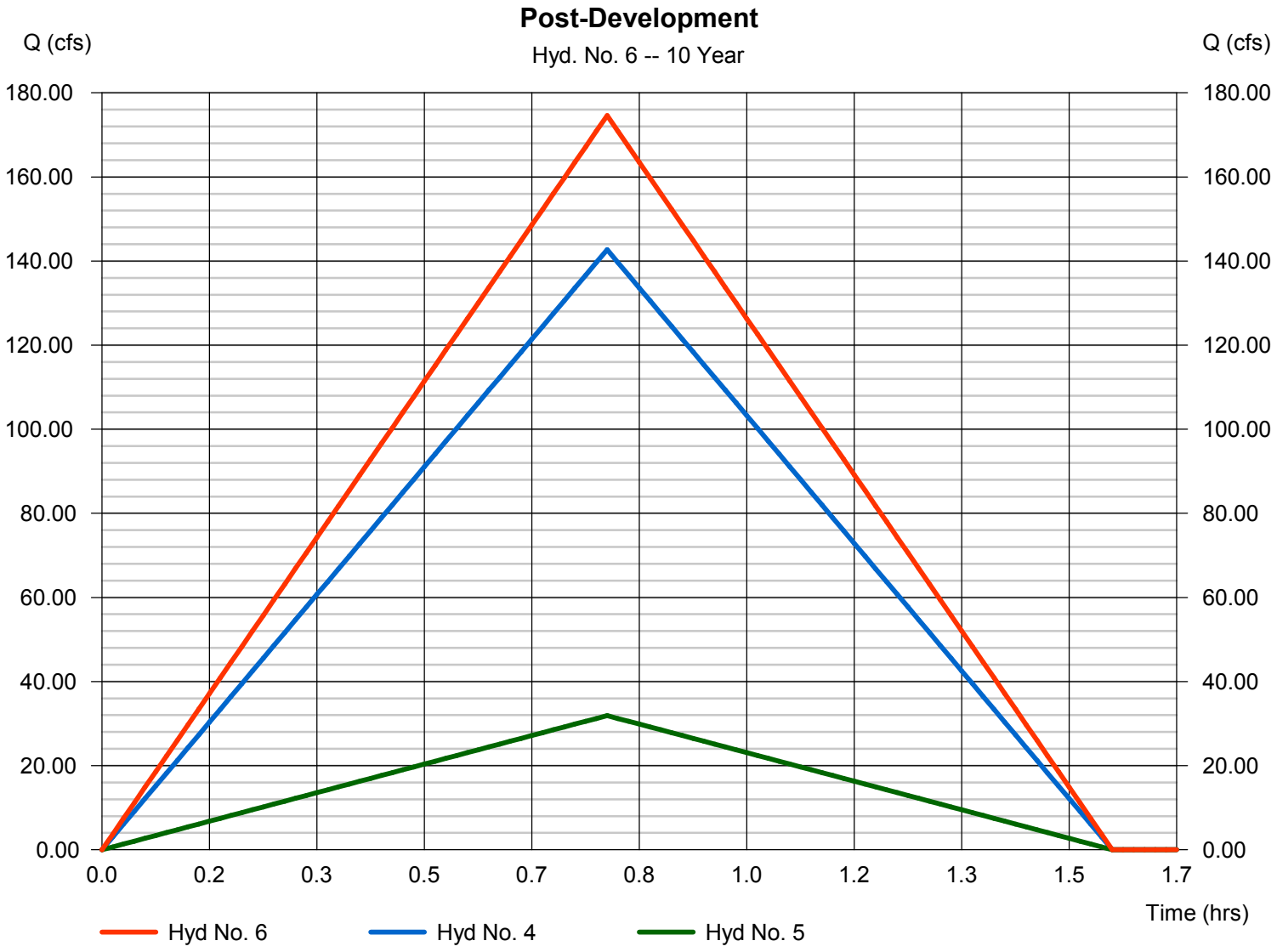


Hydrograph Report

Hyd. No. 6

Post-Development

Hydrograph type	= Combine	Peak discharge	= 174.60 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 492,365 cuft
Inflow hyds.	= 4, 5	Contrib. drain. area	= 124.830 ac



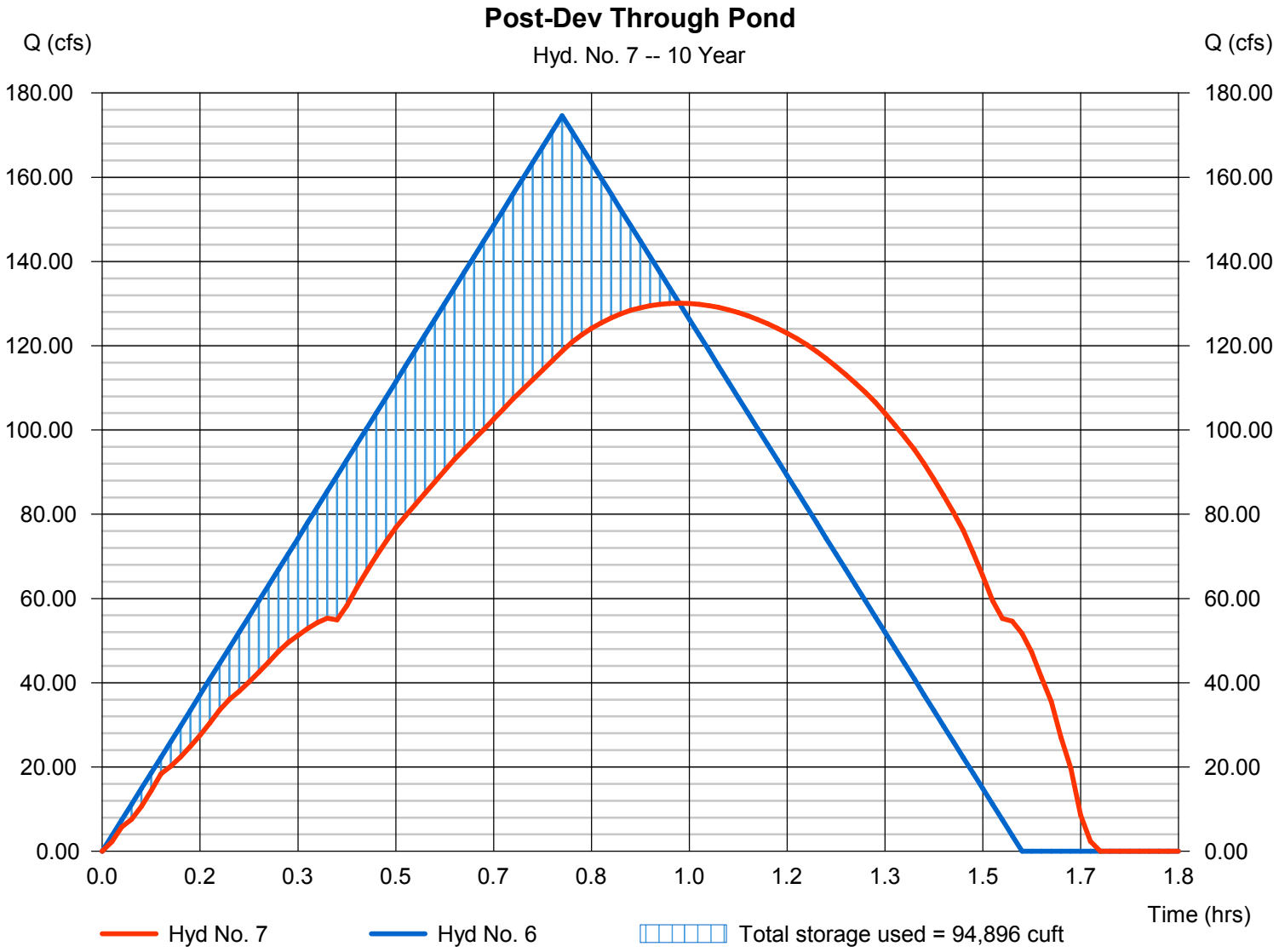
Hydrograph Report

Hyd. No. 7

Post-Dev Through Pond

Hydrograph type	= Reservoir	Peak discharge	= 130.10 cfs
Storm frequency	= 10 yrs	Time to peak	= 0.98 hrs
Time interval	= 1 min	Hyd. volume	= 492,392 cuft
Inflow hyd. No.	= 6 - Post-Development	Max. Elevation	= 406.46 ft
Reservoir name	= East Det Pond	Max. Storage	= 94,896 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

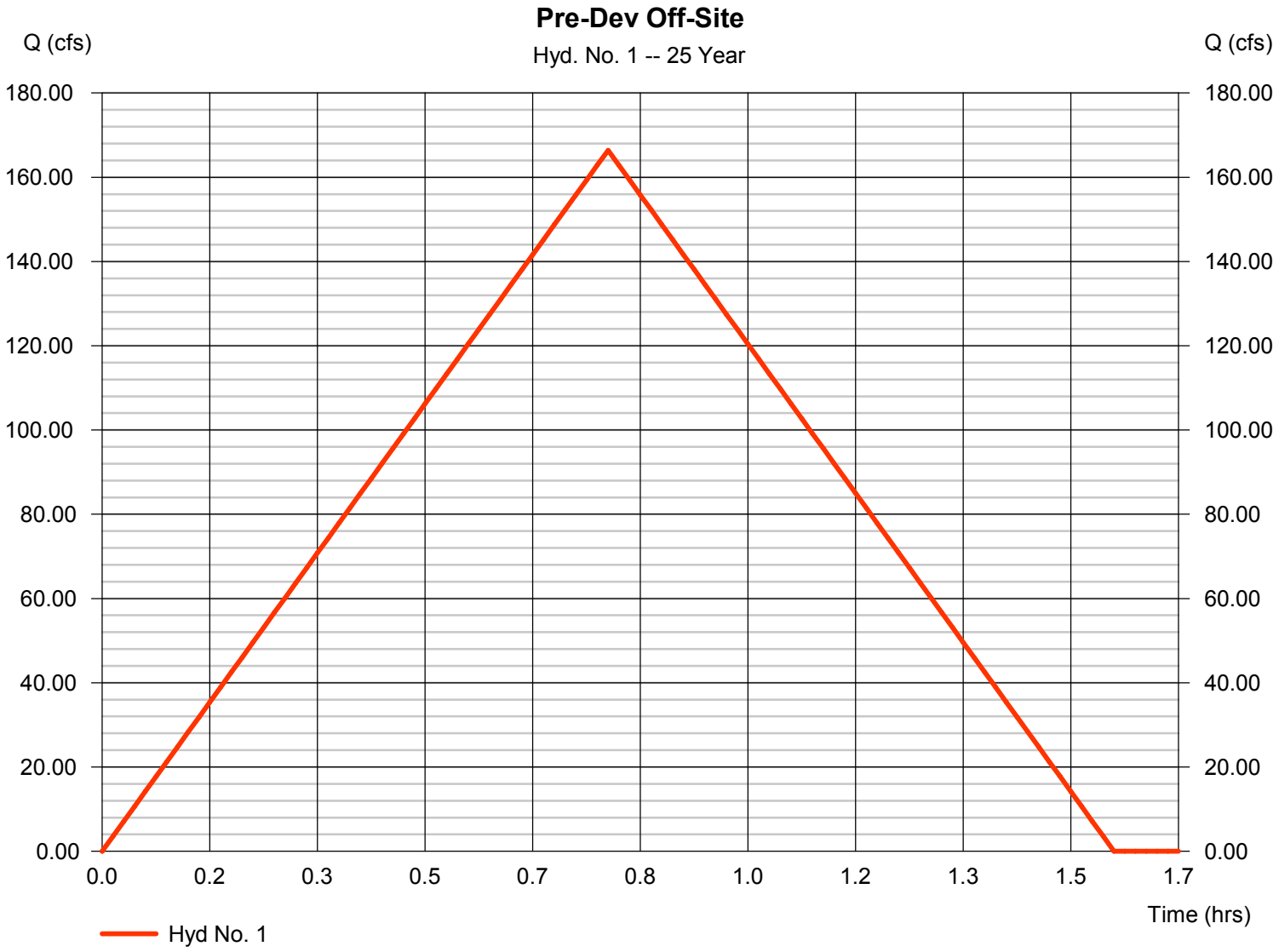
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	166.41	1	47	469,284	------	------	------	Pre-Dev Off-Site
2	Rational	15.92	1	47	44,890	------	------	------	Pre-Dev On-Site
3	Combine	182.33	1	47	514,174	1, 2	------	------	Pre-Development
4	Rational	166.41	1	47	469,284	------	------	------	Post-Dev Off-Site
5	Rational	37.20	1	47	104,913	------	------	------	Post-Dev On-Site
6	Combine	203.62	1	47	574,197	4, 5	------	------	Post-Development
7	Reservoir	145.21	1	60	574,201	6	407.19	124,214	Post-Dev Through Pond

Hydrograph Report

Hyd. No. 1

Pre-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 166.41 cfs
Storm frequency	= 25 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 469,284 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 3.495 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

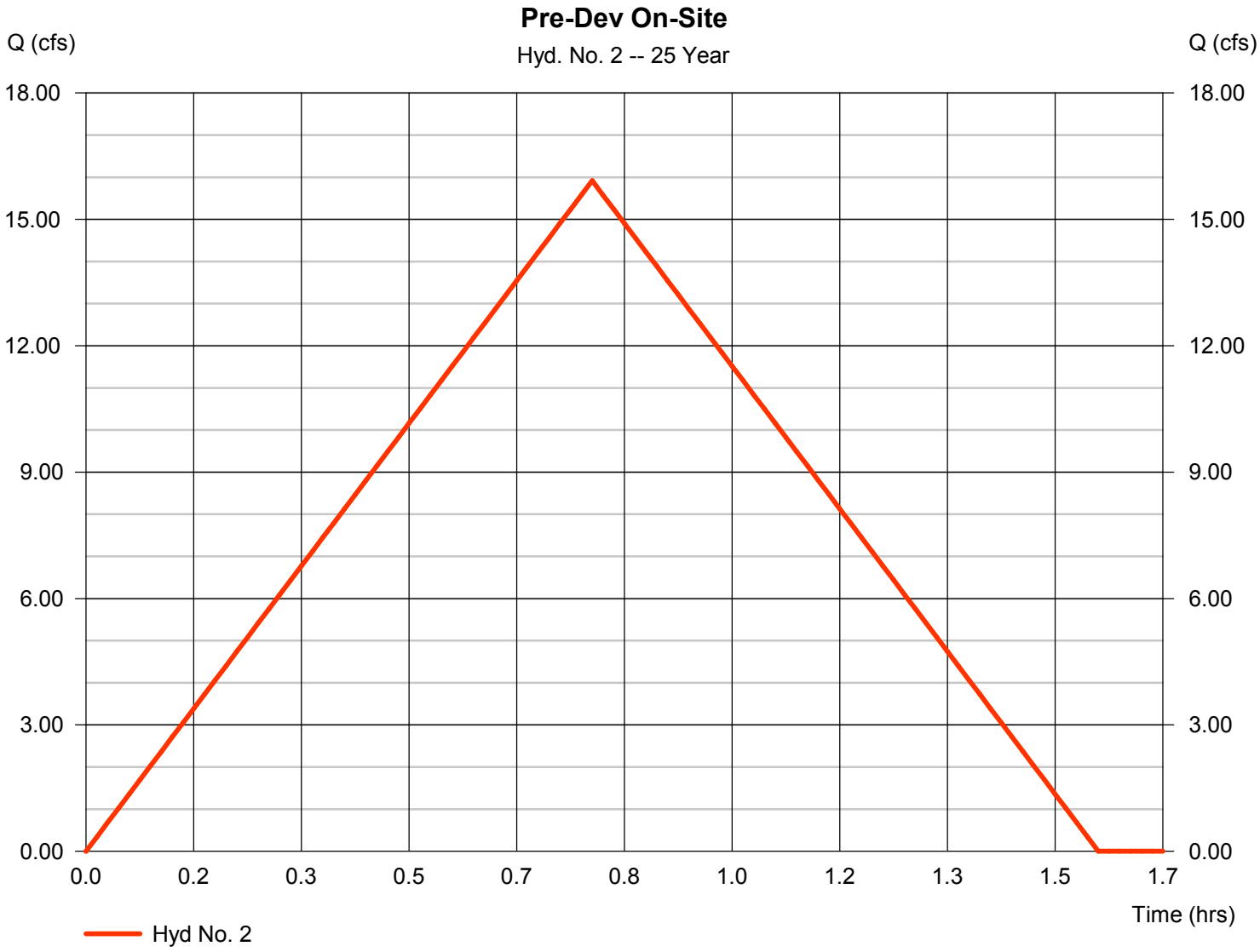


Hydrograph Report

Hyd. No. 2

Pre-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	15.92 cfs
Storm frequency	=	25 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	44,890 cuft
Drainage area	=	13.800 ac	Runoff coeff.	=	0.33
Intensity	=	3.495 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

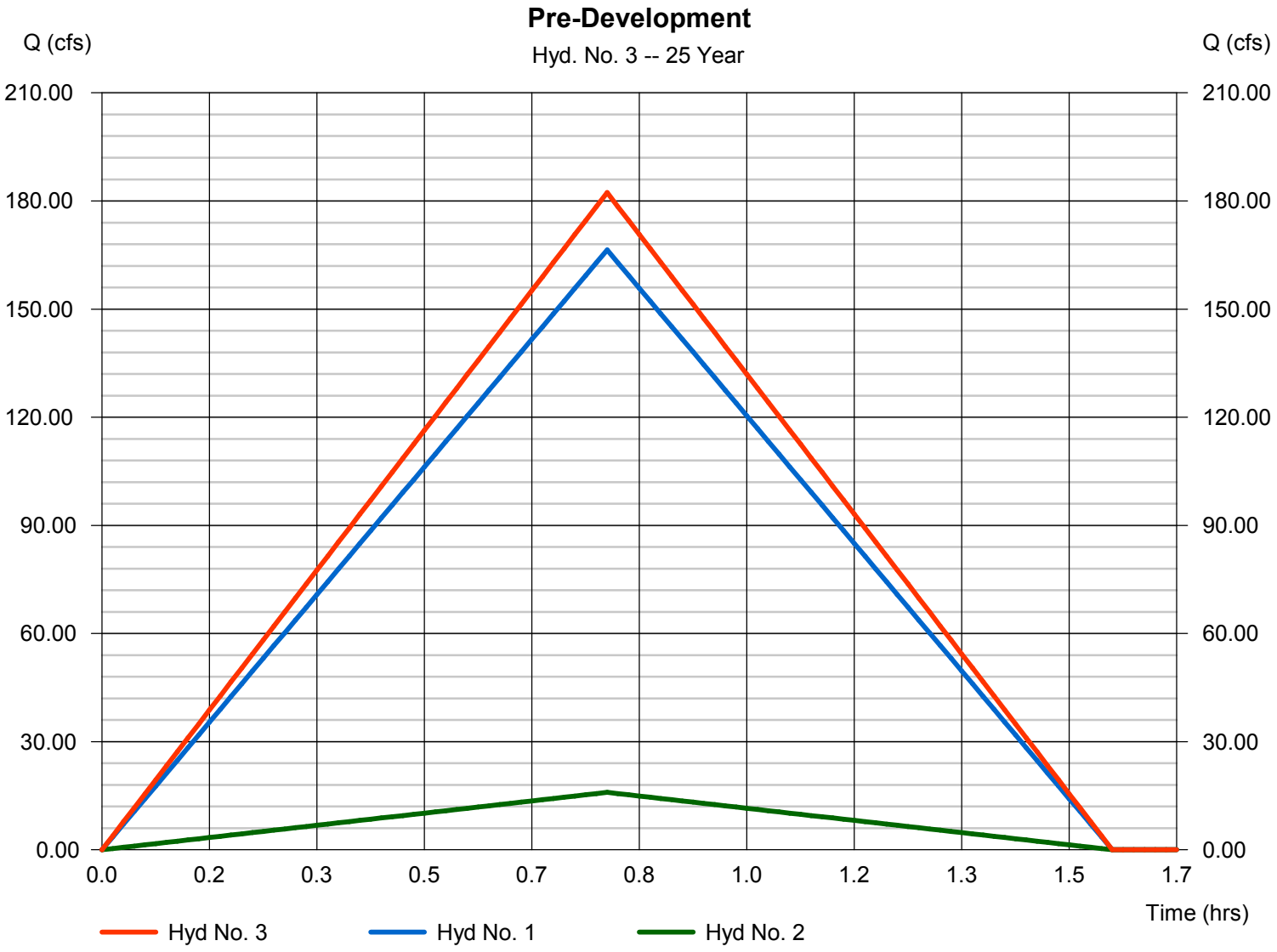


Hydrograph Report

Hyd. No. 3

Pre-Development

Hydrograph type	= Combine	Peak discharge	= 182.33 cfs
Storm frequency	= 25 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 514,174 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 122.000 ac



Hydrograph Report

Hyd. No. 4

Post-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 166.41 cfs
Storm frequency	= 25 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 469,284 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 3.495 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

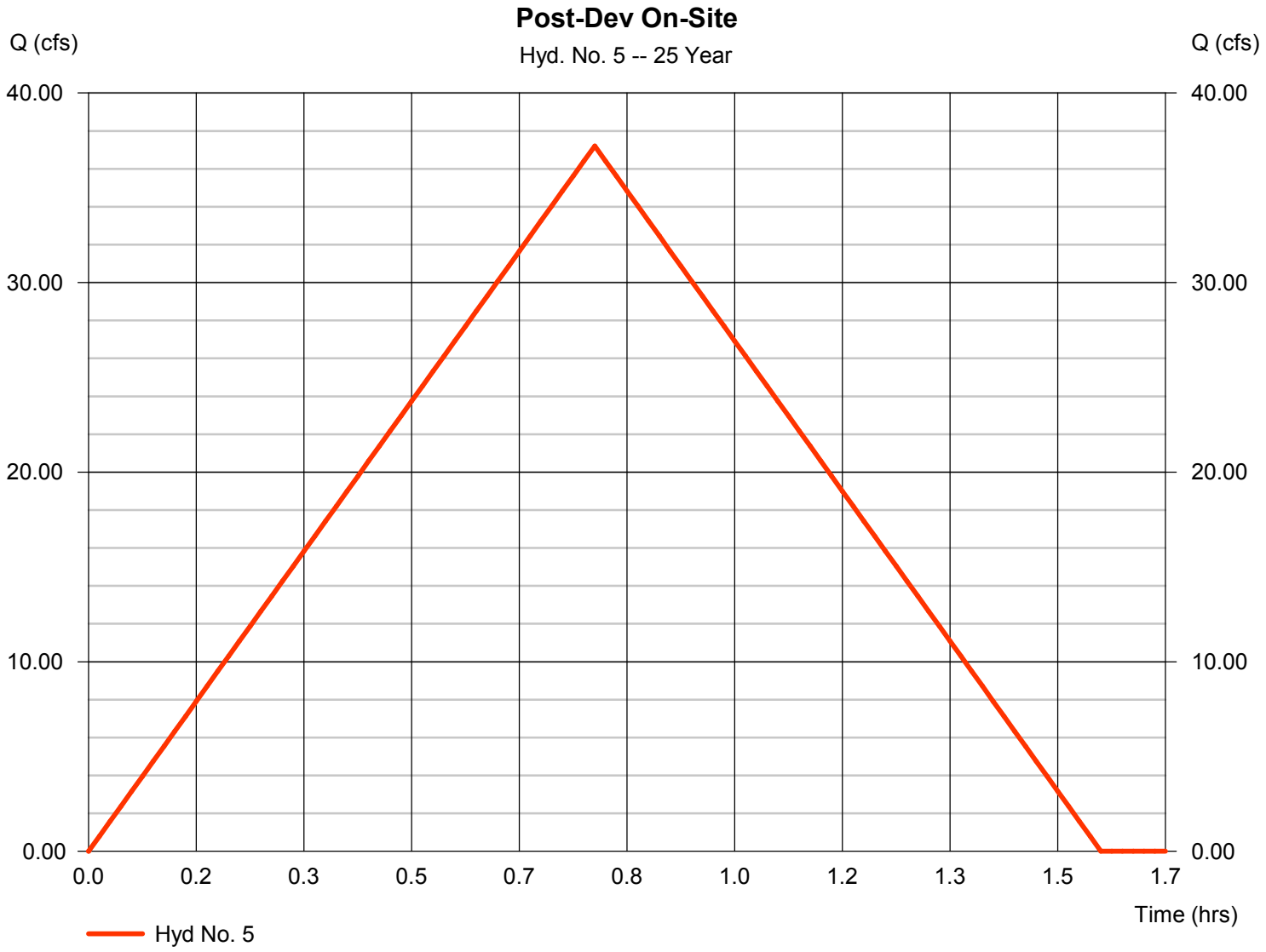


Hydrograph Report

Hyd. No. 5

Post-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	37.20 cfs
Storm frequency	=	25 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	104,913 cuft
Drainage area	=	16.630 ac	Runoff coeff.	=	0.64
Intensity	=	3.495 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

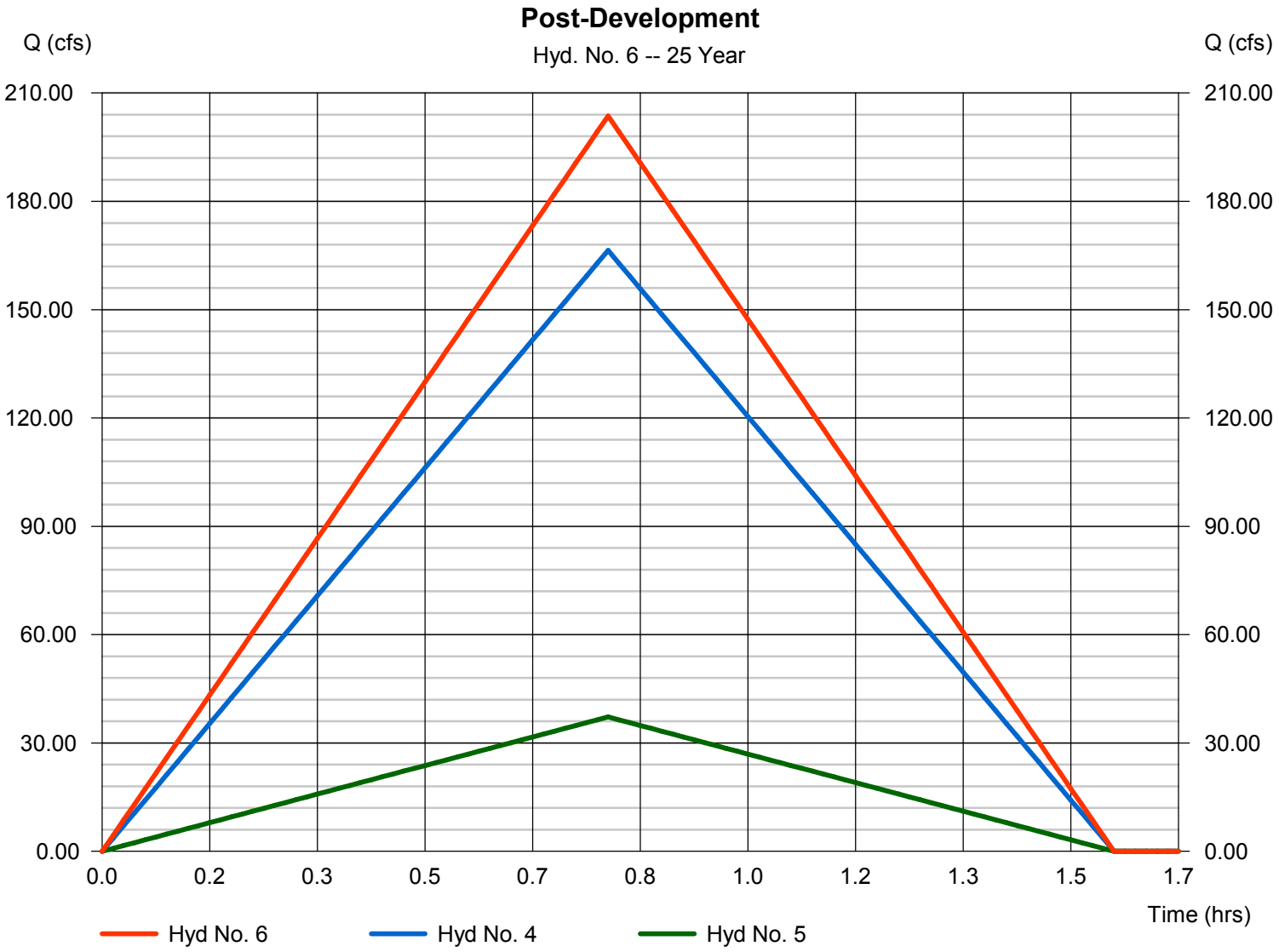


Hydrograph Report

Hyd. No. 6

Post-Development

Hydrograph type	= Combine	Peak discharge	= 203.62 cfs
Storm frequency	= 25 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 574,197 cuft
Inflow hyds.	= 4, 5	Contrib. drain. area	= 124.830 ac



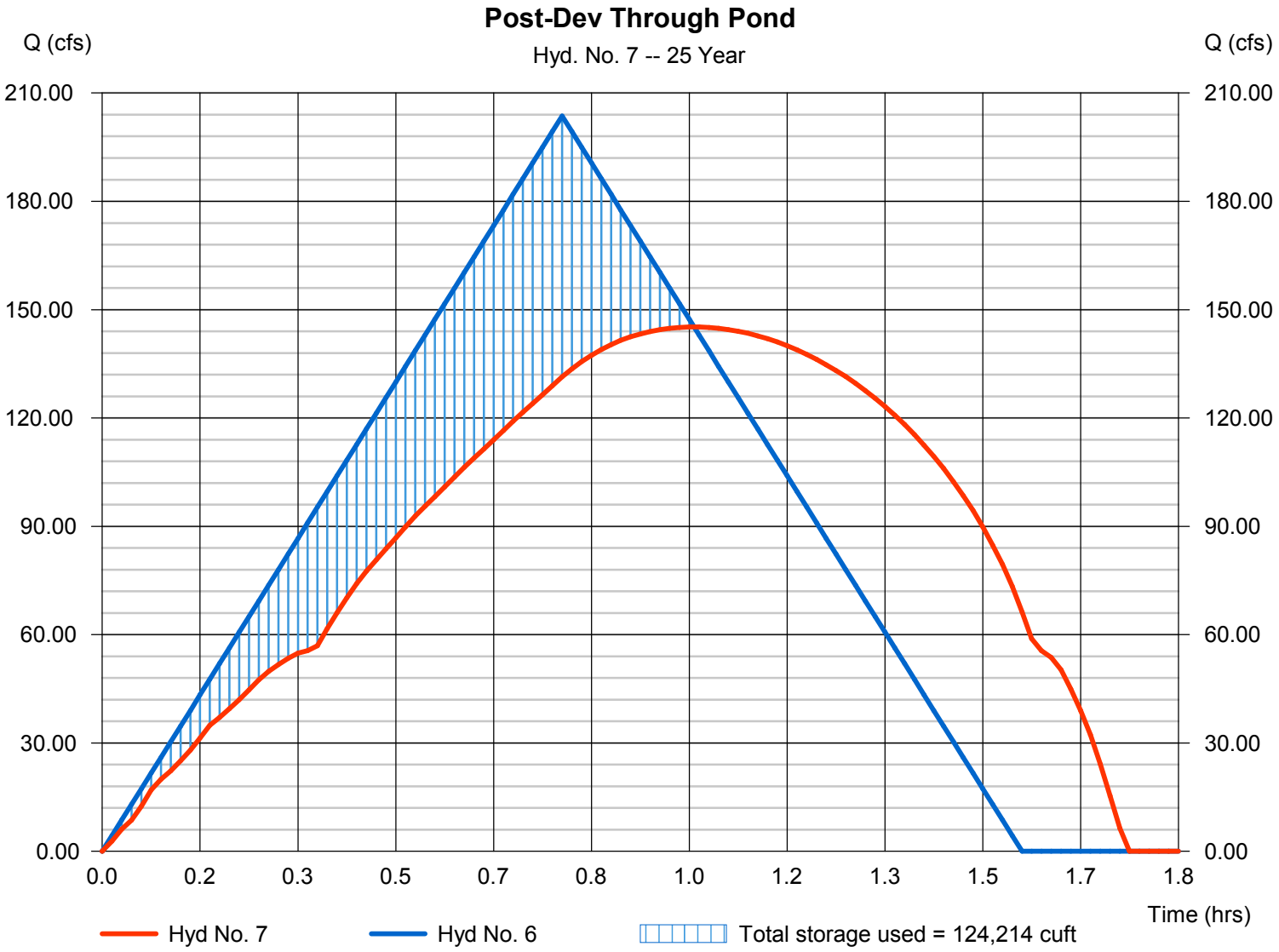
Hydrograph Report

Hyd. No. 7

Post-Dev Through Pond

Hydrograph type	=	Reservoir	Peak discharge	=	145.21 cfs
Storm frequency	=	25 yrs	Time to peak	=	1.00 hrs
Time interval	=	1 min	Hyd. volume	=	574,201 cuft
Inflow hyd. No.	=	6 - Post-Development	Max. Elevation	=	407.19 ft
Reservoir name	=	East Det Pond	Max. Storage	=	124,214 cuft

Storage Indication method used.



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

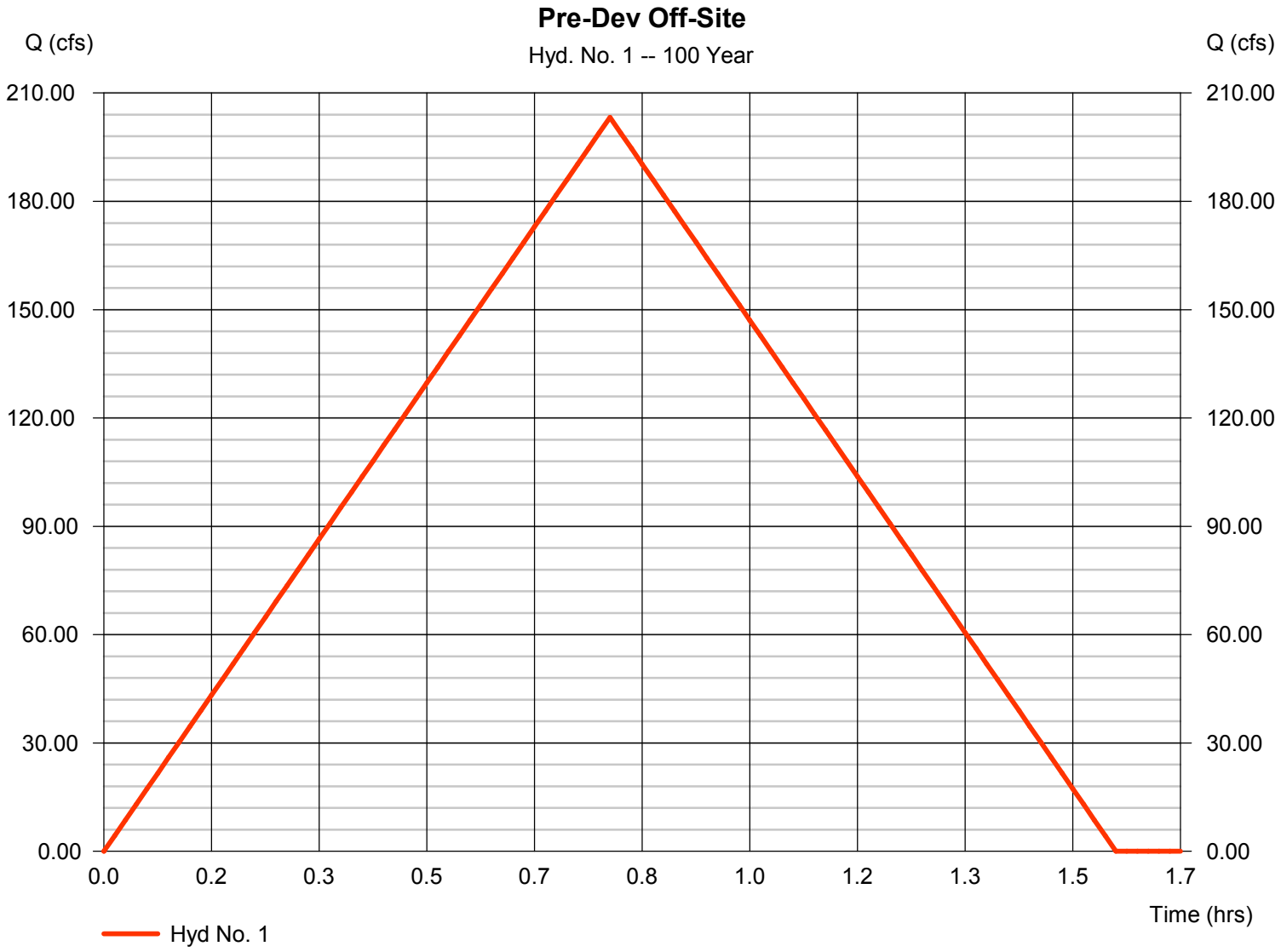
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	Rational	203.26	1	47	573,197	------	------	------	Pre-Dev Off-Site
2	Rational	19.44	1	47	54,830	------	------	------	Pre-Dev On-Site
3	Combine	222.70	1	47	628,027	1, 2	------	------	Pre-Development
4	Rational	203.26	1	47	573,197	------	------	------	Post-Dev Off-Site
5	Rational	45.44	1	47	128,143	------	------	------	Post-Dev On-Site
6	Combine	248.70	1	47	701,341	4, 5	------	------	Post-Development
7	Reservoir	182.38	1	60	701,341	6	408.22	168,656	Post-Dev Through Pond

Hydrograph Report

Hyd. No. 1

Pre-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 203.26 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 573,197 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 4.269 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

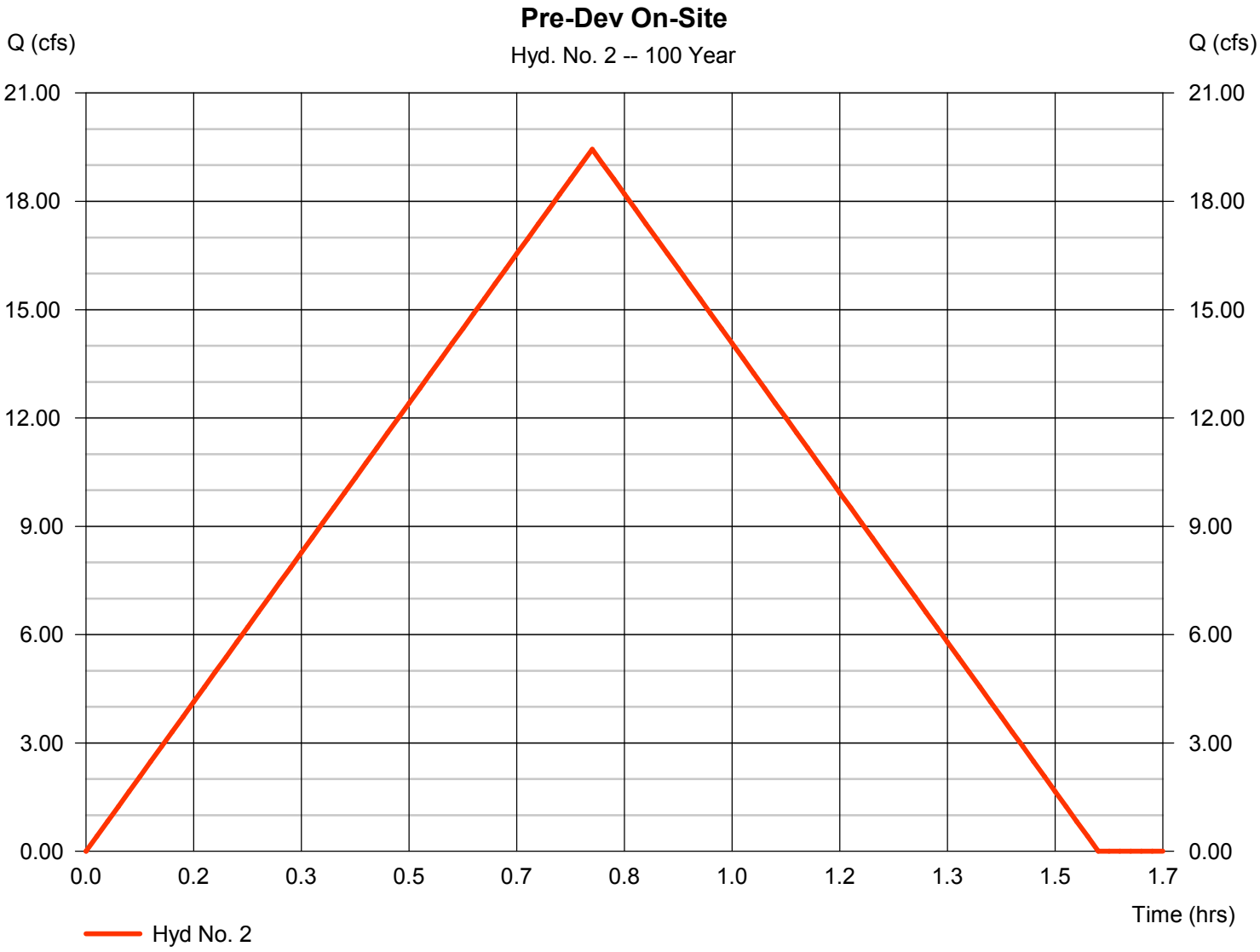


Hydrograph Report

Hyd. No. 2

Pre-Dev On-Site

Hydrograph type	=	Rational	Peak discharge	=	19.44 cfs
Storm frequency	=	100 yrs	Time to peak	=	0.78 hrs
Time interval	=	1 min	Hyd. volume	=	54,830 cuft
Drainage area	=	13.800 ac	Runoff coeff.	=	0.33
Intensity	=	4.269 in/hr	Tc by User	=	47.00 min
IDF Curve	=	Benton.IDF	Asc/Rec limb fact	=	1/1

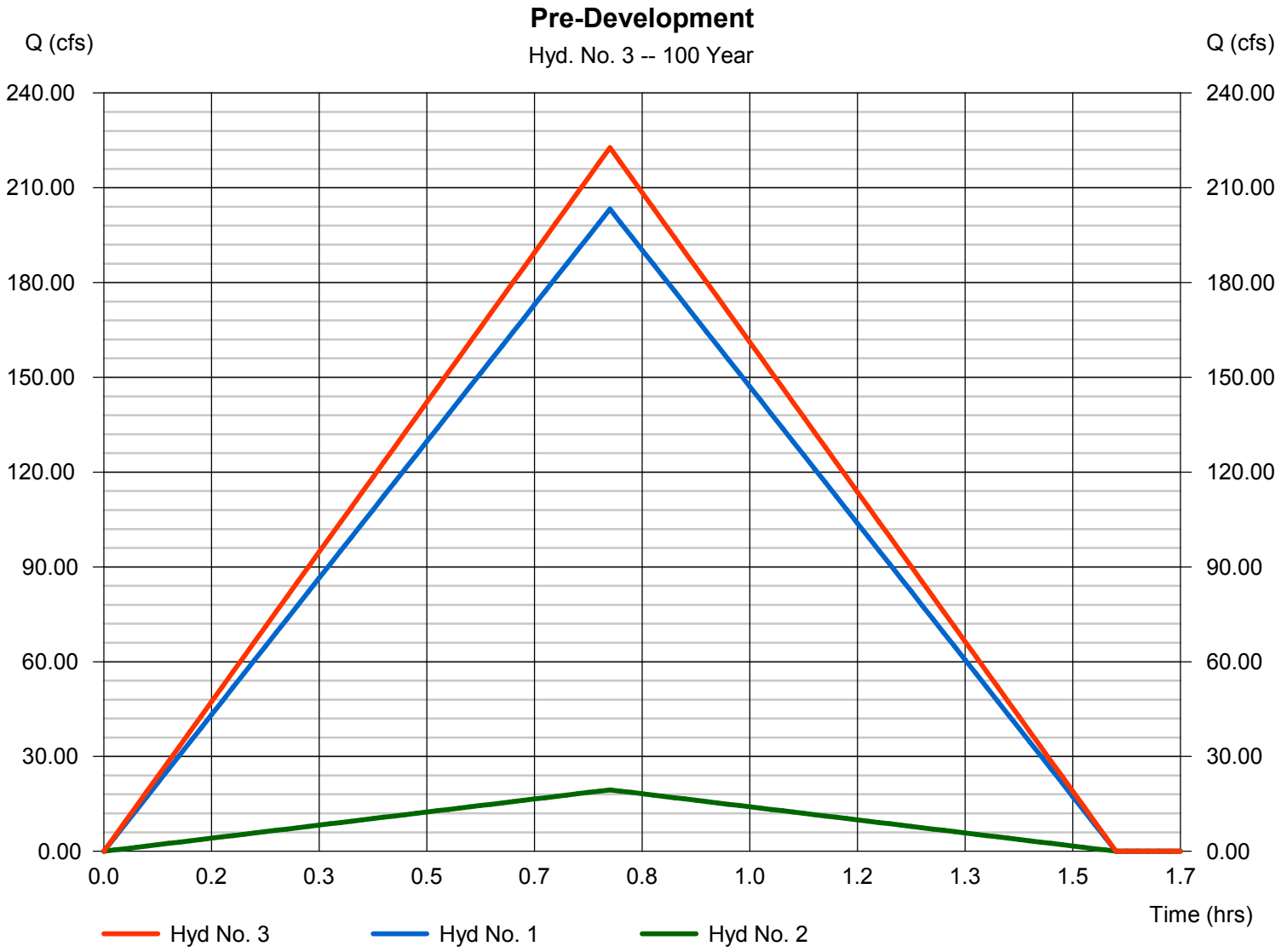


Hydrograph Report

Hyd. No. 3

Pre-Development

Hydrograph type	= Combine	Peak discharge	= 222.70 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 628,027 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 122.000 ac

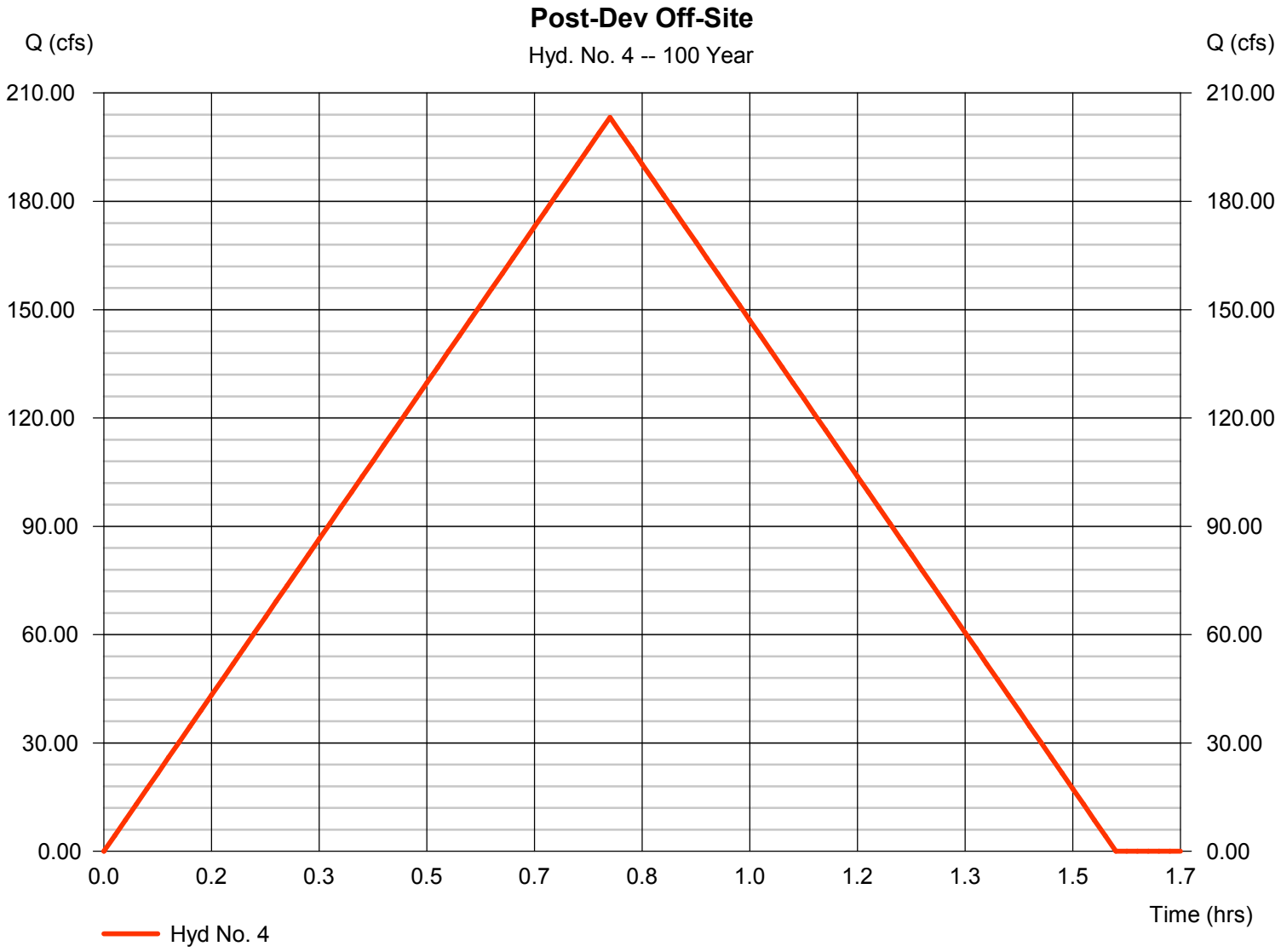


Hydrograph Report

Hyd. No. 4

Post-Dev Off-Site

Hydrograph type	= Rational	Peak discharge	= 203.26 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 573,197 cuft
Drainage area	= 108.200 ac	Runoff coeff.	= 0.44
Intensity	= 4.269 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

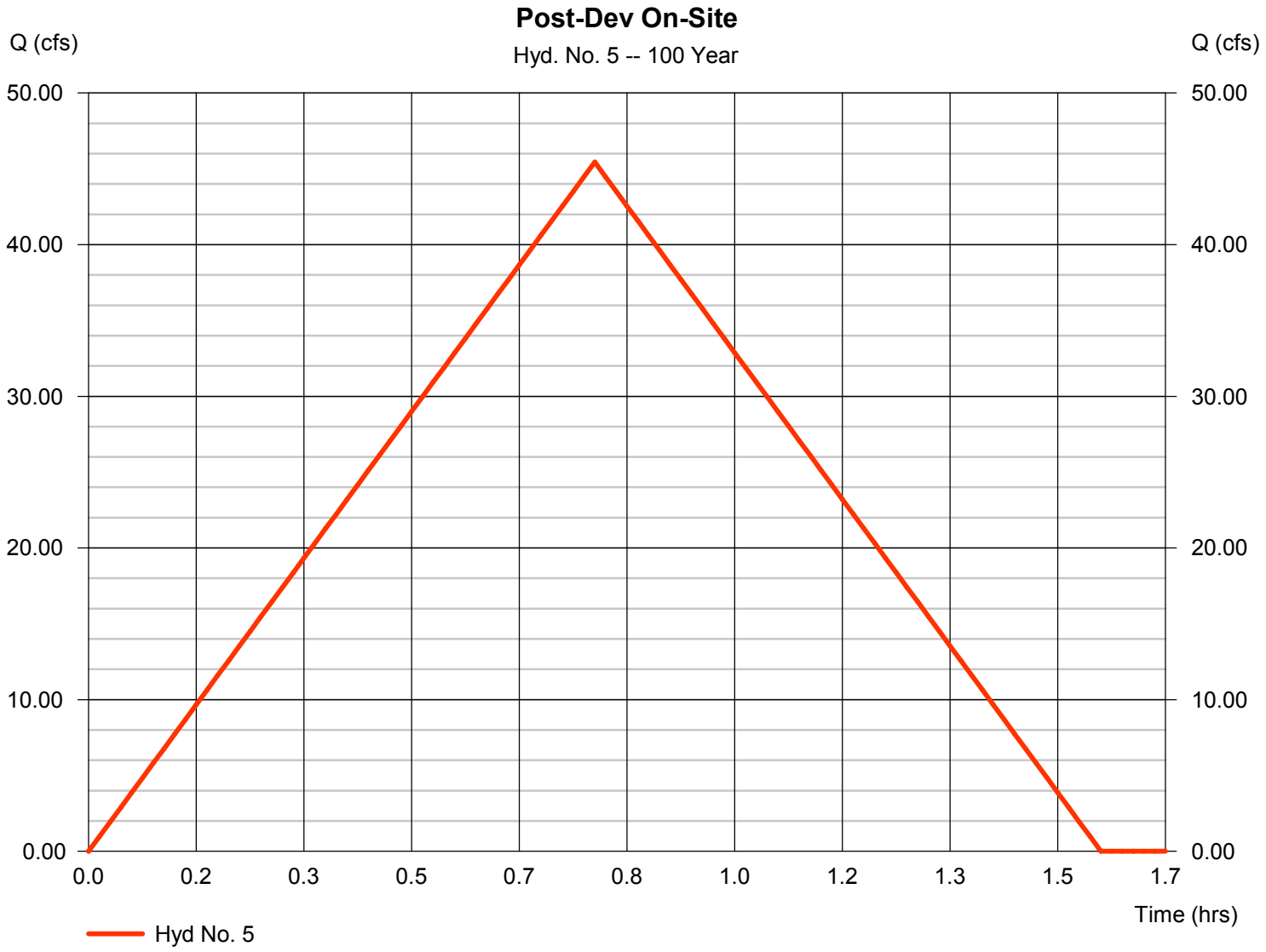


Hydrograph Report

Hyd. No. 5

Post-Dev On-Site

Hydrograph type	= Rational	Peak discharge	= 45.44 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 128,143 cuft
Drainage area	= 16.630 ac	Runoff coeff.	= 0.64
Intensity	= 4.269 in/hr	Tc by User	= 47.00 min
IDF Curve	= Benton.IDF	Asc/Rec limb fact	= 1/1

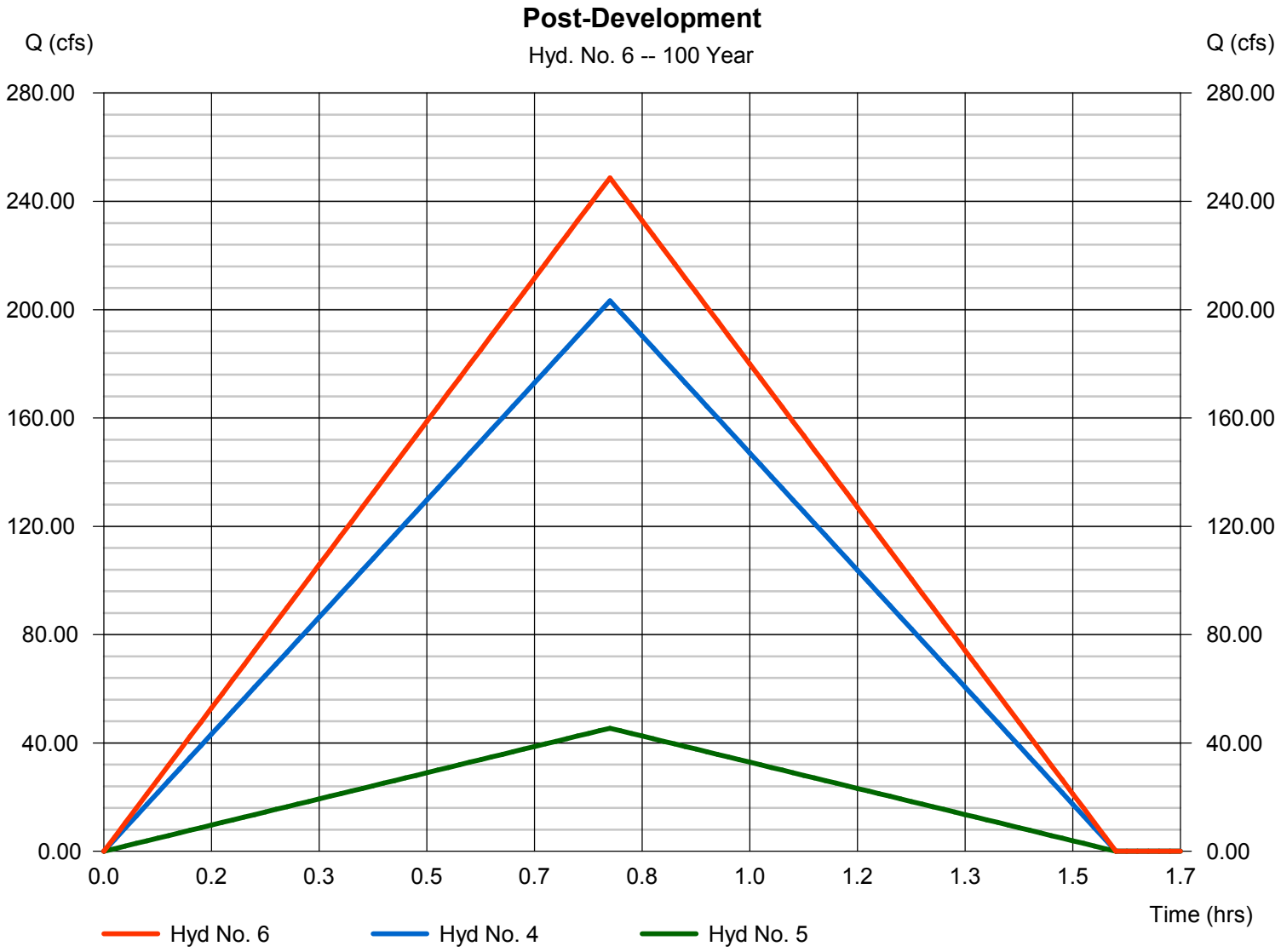


Hydrograph Report

Hyd. No. 6

Post-Development

Hydrograph type	= Combine	Peak discharge	= 248.70 cfs
Storm frequency	= 100 yrs	Time to peak	= 0.78 hrs
Time interval	= 1 min	Hyd. volume	= 701,341 cuft
Inflow hyds.	= 4, 5	Contrib. drain. area	= 124.830 ac



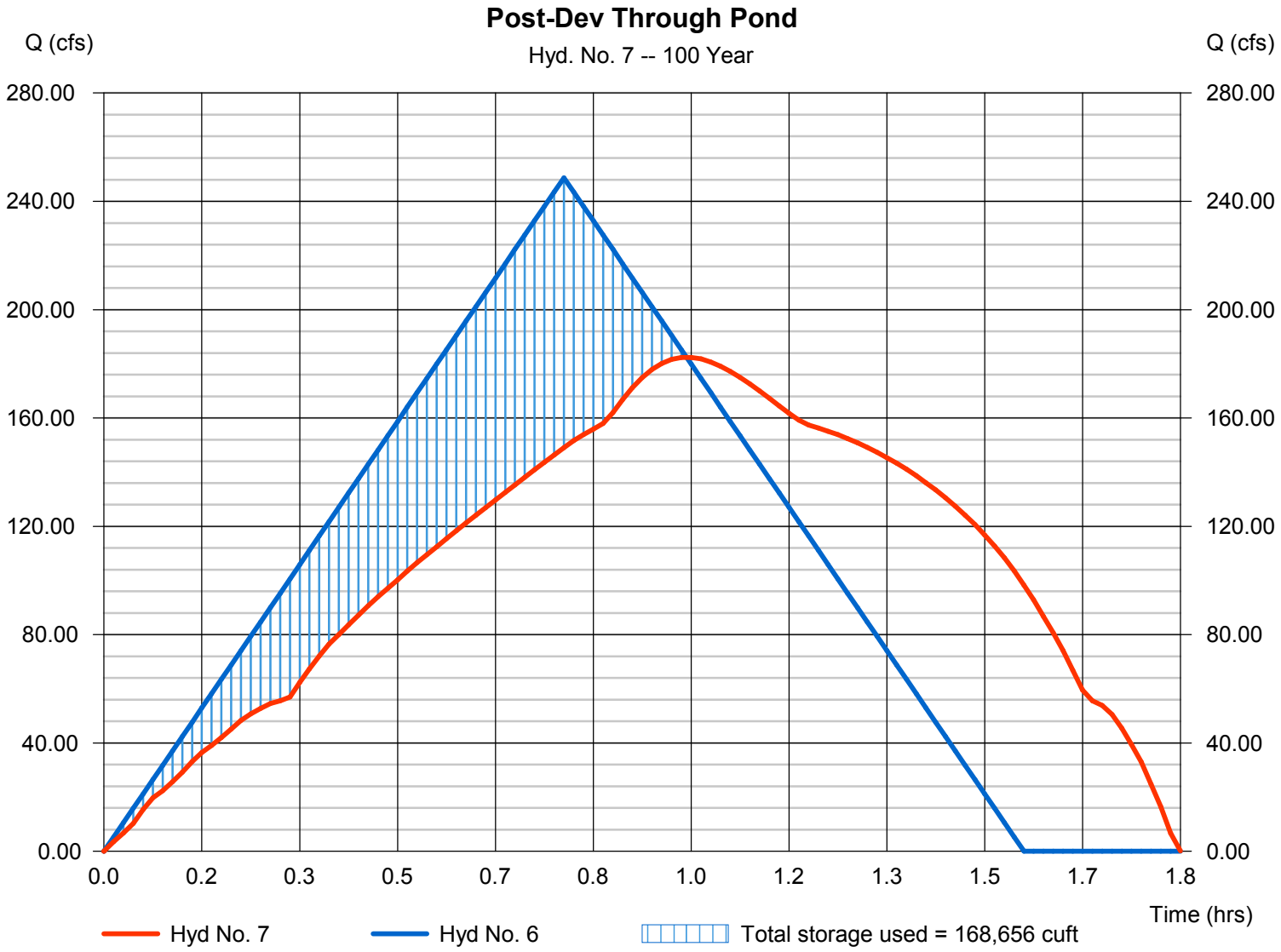
Hydrograph Report

Hyd. No. 7

Post-Dev Through Pond

Hydrograph type	=	Reservoir	Peak discharge	=	182.38 cfs
Storm frequency	=	100 yrs	Time to peak	=	1.00 hrs
Time interval	=	1 min	Hyd. volume	=	701,341 cuft
Inflow hyd. No.	=	6 - Post-Development	Max. Elevation	=	408.22 ft
Reservoir name	=	East Det Pond	Max. Storage	=	168,656 cuft

Storage Indication method used.



Hydraflow Rainfall Report

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	0.0000	0.0000	0.0000	--------
2	58.0677	11.2000	0.8095	--------
3	0.0000	0.0000	0.0000	--------
5	0.0000	0.0000	0.0000	--------
10	87.5862	15.1000	0.8174	--------
25	111.0416	17.7000	0.8294	--------
50	0.0000	0.0000	0.0000	--------
100	162.9833	22.4000	0.8590	--------

File name: Benton.IDF

Intensity = B / (Tc + D)^E

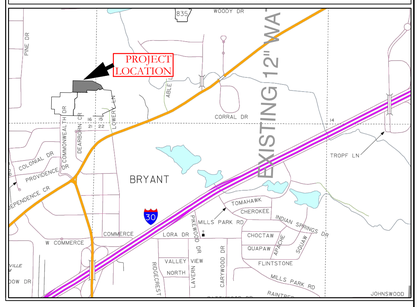
Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6.09	4.90	4.13	3.58	3.18	2.86	2.61	2.40	2.23	2.08	1.95	1.84
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	7.54	6.29	5.42	4.78	4.29	3.89	3.57	3.31	3.08	2.88	2.71	2.57
25	8.33	7.06	6.16	5.47	4.93	4.50	4.14	3.84	3.59	3.37	3.17	3.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	9.49	8.21	7.26	6.52	5.92	5.44	5.03	4.68	4.38	4.12	3.89	3.68

Tc = time in minutes. Values may exceed 60.

Precip. file name: Sample.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	2.20	0.00	3.30	4.25	5.77	6.80	7.95
SCS 6-Hr	0.00	1.80	0.00	0.00	2.60	0.00	0.00	4.00
Huff-1st	0.00	1.55	0.00	2.75	4.00	5.38	6.50	8.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	1.55	0.00	2.75	4.00	5.38	6.50	8.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	7.10

VICINITY MAP:





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CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20826
KAZI TAMZIDUL ISLAM

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

50' 25' 0 50'

HOPE CONSULTING
ENGINEERS - SURVEYORS
117 S. Market Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
GRAHAM SMITH CONSTRUCTION, LLC

MIDTOWN BRYANT, PHASE-3
AS BUILT POND
BRYANT, SALINE COUNTY, ARKANSAS

DATE:	6/9/2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	07-0032
SHEET:	C-1.0	SCALE:	

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