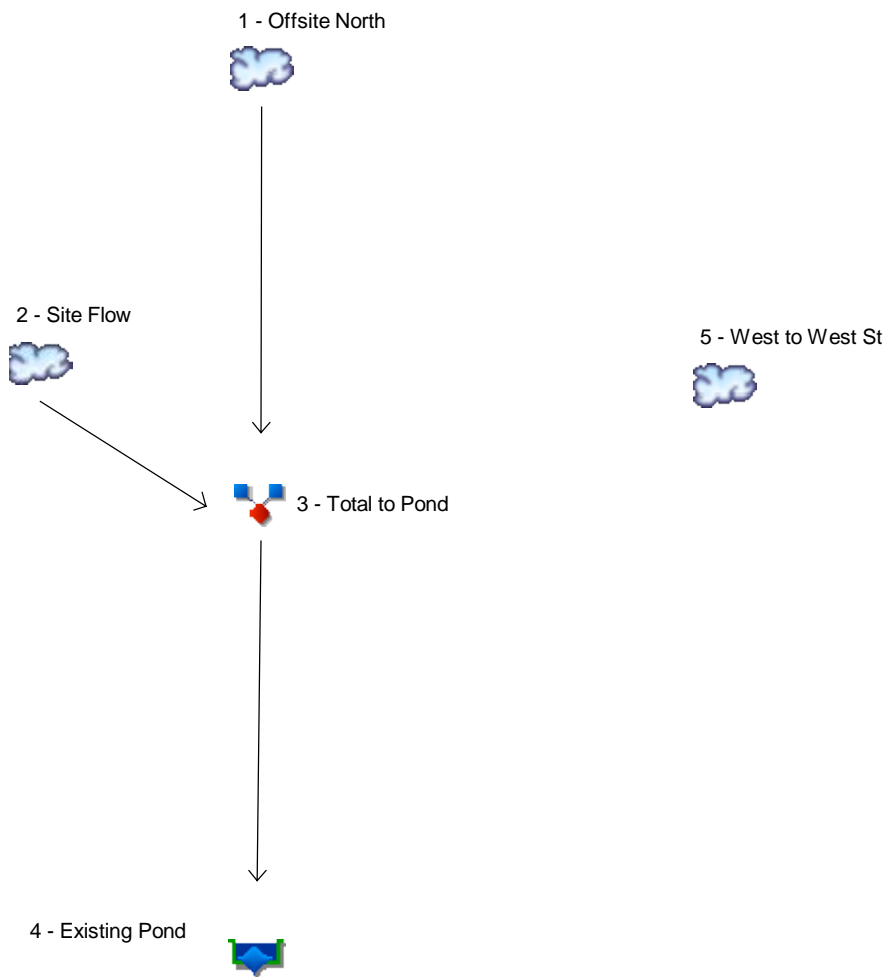


Watershed Model Schematic

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10



Legend

Hyd. Origin	Description
1 SCS Runoff	Offsite North
2 SCS Runoff	Site Flow
3 Combine	Total to Pond
4 Reservoir	Existing Pond
5 SCS Runoff	West to West St

Hydrograph Return Period Recap

Hydroflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	-----	16.09	23.98	1.911	35.94	44.57	55.85	65.97	77.41	Offsite North
2	SCS Runoff	-----	81.64	108.11	22.86	145.81	172.05	205.61	235.29	268.55	Site Flow
3	Combine	1, 2	86.31	115.75	23.22	158.13	187.86	226.07	260.00	298.10	Total to Pond
4	Reservoir	3	5.925	15.03	0.508	30.40	42.08	59.93	75.74	94.08	Existing Pond
5	SCS Runoff	-----	10.49	15.13	1.523	22.04	26.96	33.34	39.02	45.41	West to West St

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	23.98	2	794	6.557	-----	-----	-----	Offsite North
2	SCS Runoff	108.11	2	732	10.901	-----	-----	-----	Site Flow
3	Combine	115.75	2	732	17.458	1, 2	-----	-----	Total to Pond
4	Reservoir	15.03	2	902	15.537	3	1281.42	10.9	Existing Pond
5	SCS Runoff	15.13	2	732	1.503	-----	-----	-----	West to West St
Lange 3rd.gpw					Return Period: 2 Year			Monday, 12 / 8 / 2014	

Hydrograph Report

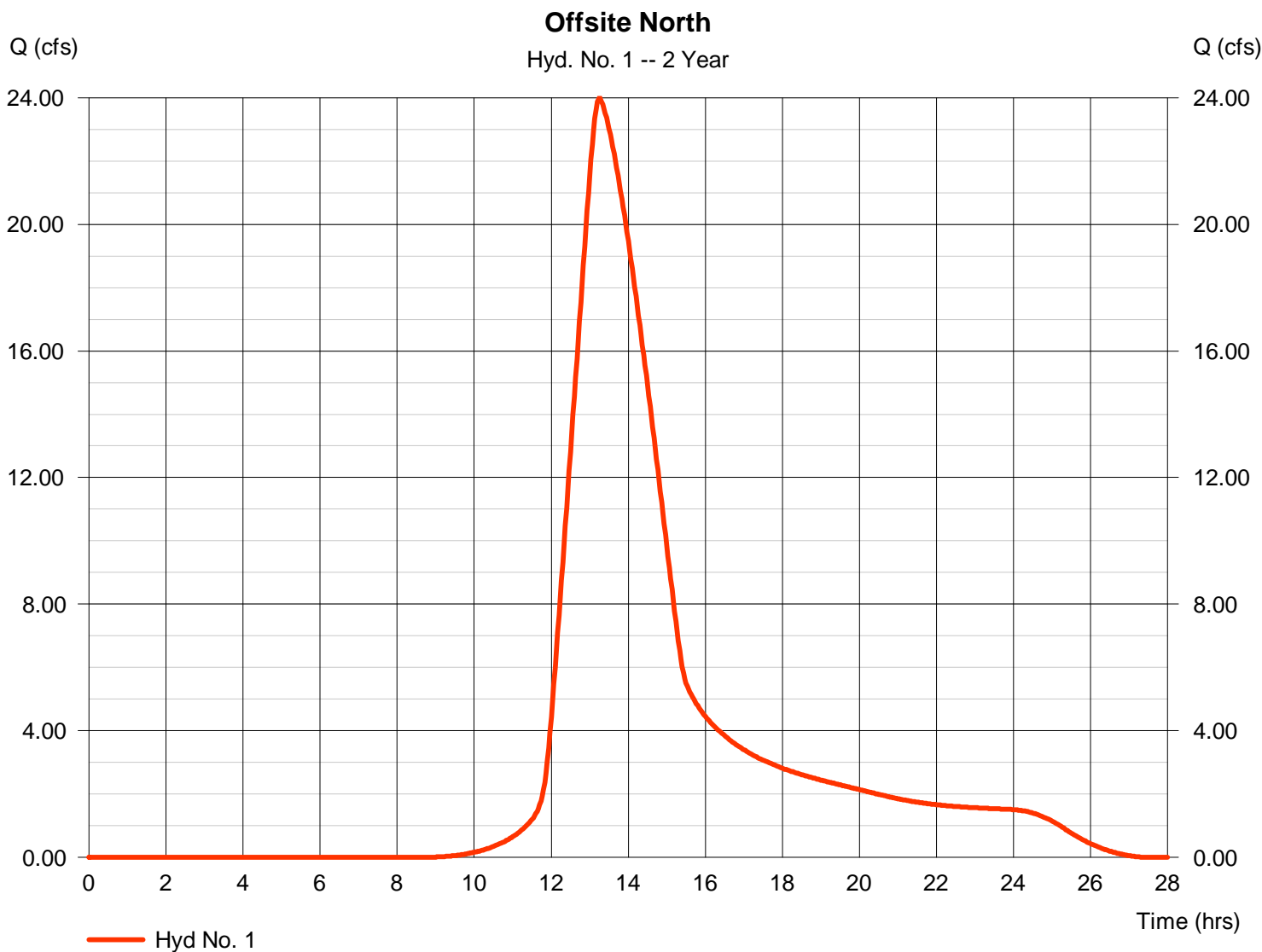
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Monday, 12 / 8 / 2014

Hyd. No. 1

Offsite North

Hydrograph type	= SCS Runoff	Peak discharge	= 23.98 cfs
Storm frequency	= 2 yrs	Time to peak	= 13.23 hrs
Time interval	= 2 min	Hyd. volume	= 6.557 acft
Drainage area	= 44.000 ac	Curve number	= 82
Basin Slope	= 0.2 %	Hydraulic length	= 2000 ft
Tc method	= LAG	Time of conc. (Tc)	= 134.20 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

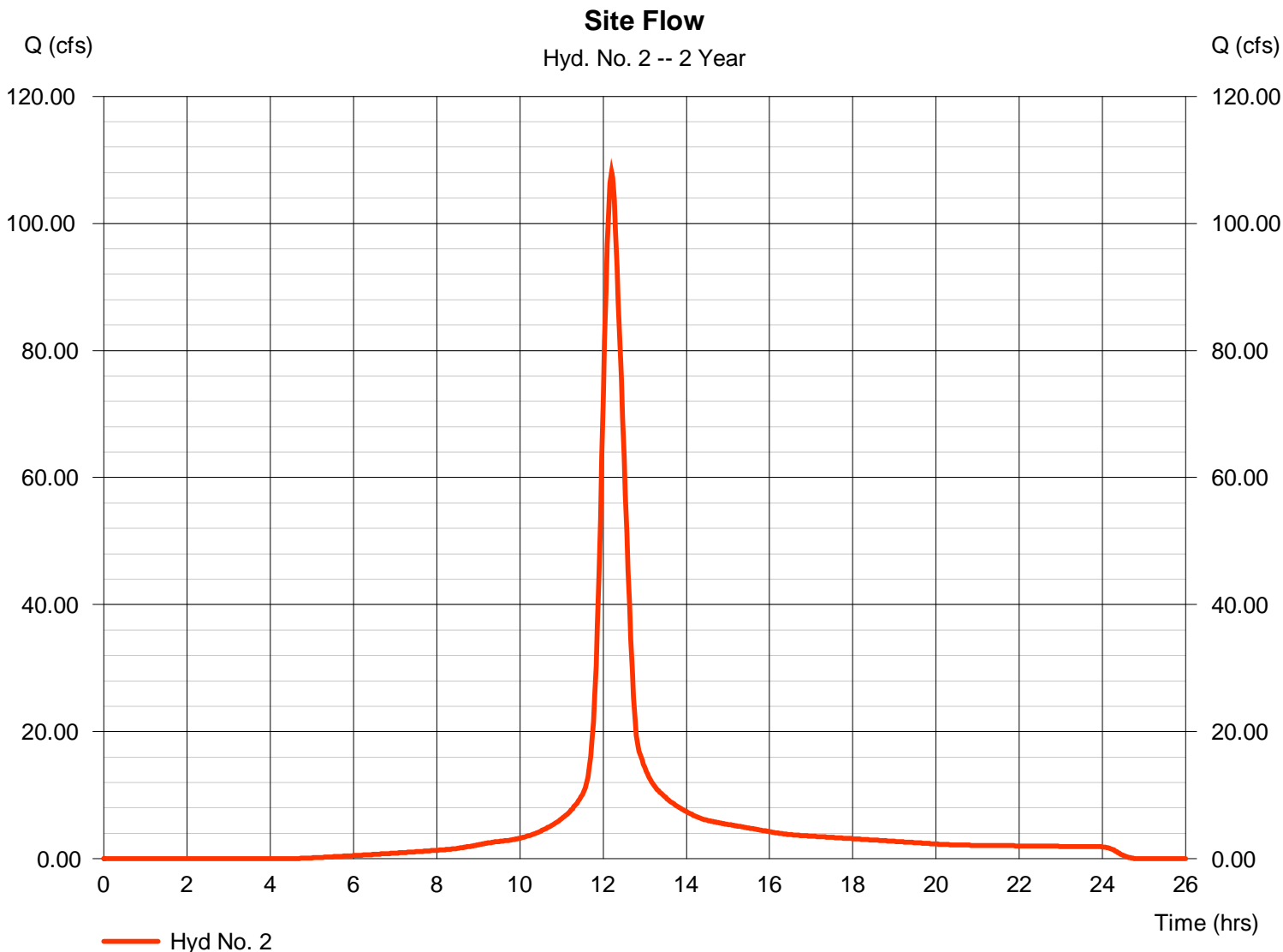
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 2

Site Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 108.11 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 10.901 acft
Drainage area	= 49.000 ac	Curve number	= 92
Basin Slope	= 0.5 %	Hydraulic length	= 1100 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.30 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

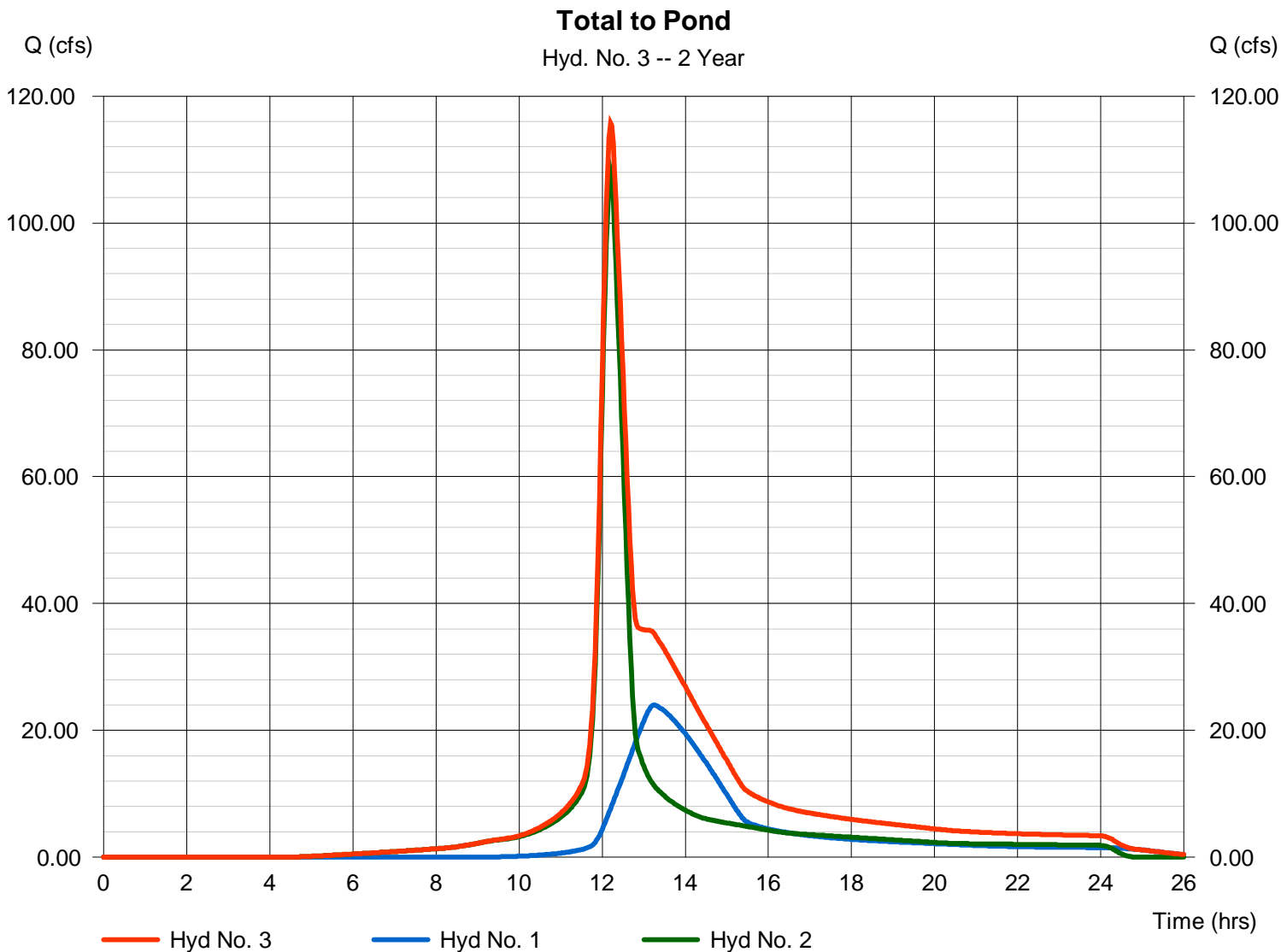
Monday, 12 / 8 / 2014

Hyd. No. 3

Total to Pond

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 1, 2

Peak discharge = 115.75 cfs
Time to peak = 12.20 hrs
Hyd. volume = 17.458 acft
Contrib. drain. area = 93.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

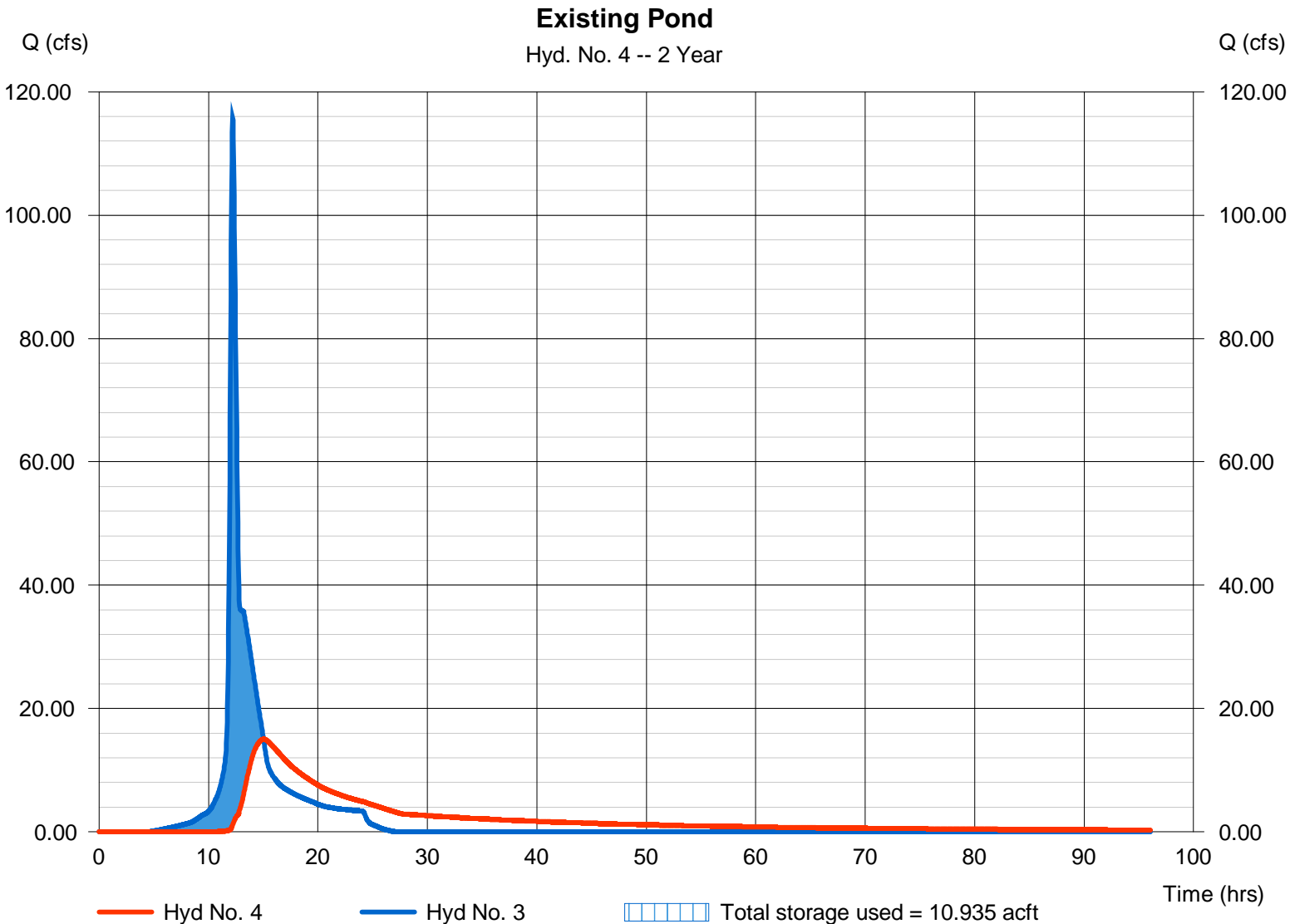
Monday, 12 / 8 / 2014

Hyd. No. 4

Existing Pond

Hydrograph type	= Reservoir	Peak discharge	= 15.03 cfs
Storm frequency	= 2 yrs	Time to peak	= 15.03 hrs
Time interval	= 2 min	Hyd. volume	= 15.537 acft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1281.42 ft
Reservoir name	= Existing Pond	Max. Storage	= 10.935 acft

Storage Indication method used.



Pond No. 1 - Existing Pond

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 1280.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (acft)	Total storage (acft)
0.00	1280.00	326,000	0.000	0.000
1.00	1281.00	340,000	7.643	7.643
2.00	1282.00	351,000	7.930	15.574
3.00	1283.00	363,000	8.194	23.768

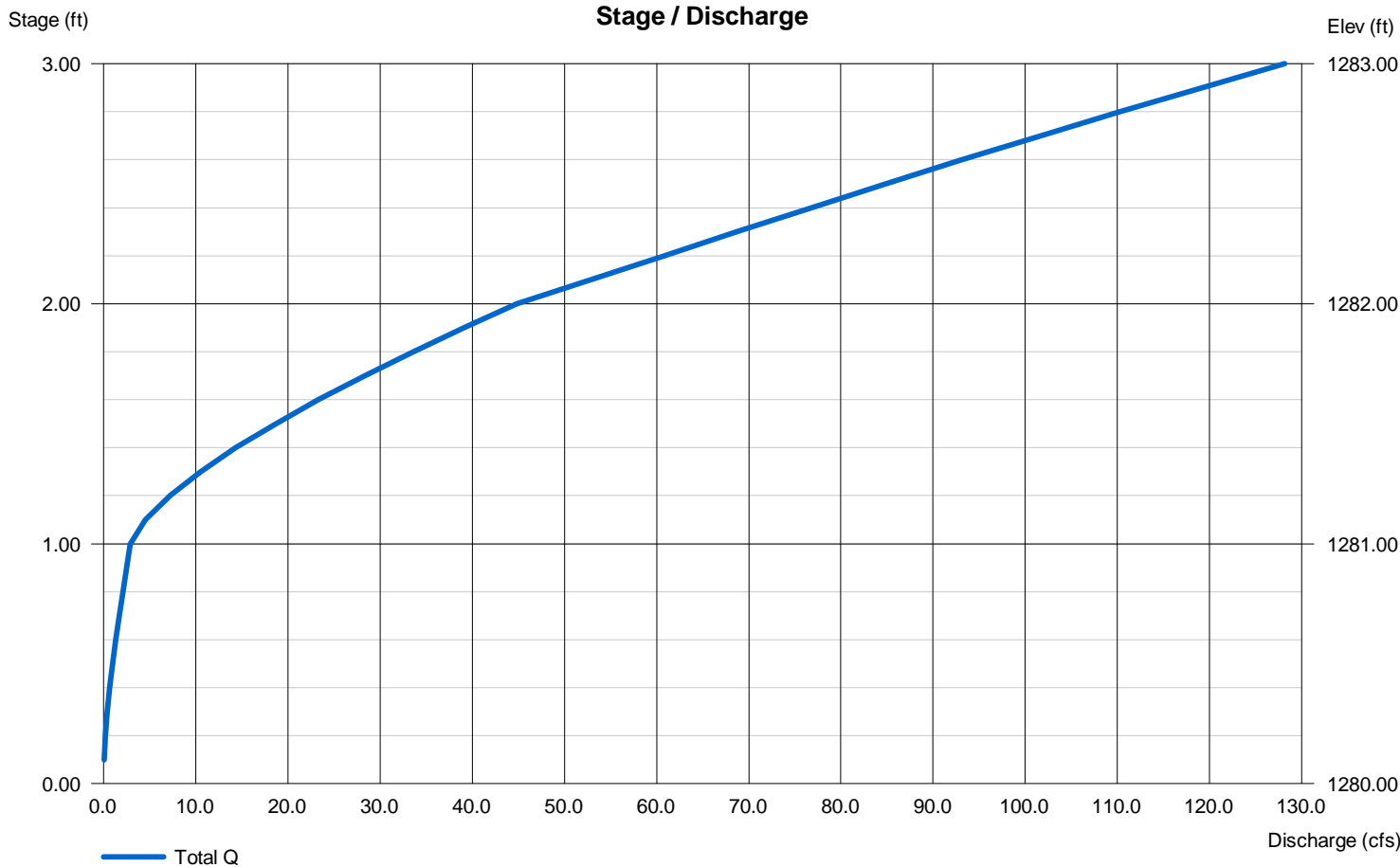
Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	0.00	0.00	0.00
Span (in)	= 24.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 1280.00	0.00	0.00	0.00
Length (ft)	= 60.00	0.00	0.00	0.00
Slope (%)	= 0.20	0.00	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)	= 15.00	0.00	0.00	0.00
Crest El. (ft)	= 1281.00	0.00	0.00	0.00
Weir Coeff.	= 2.60	3.33	3.33	3.33
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
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 Report

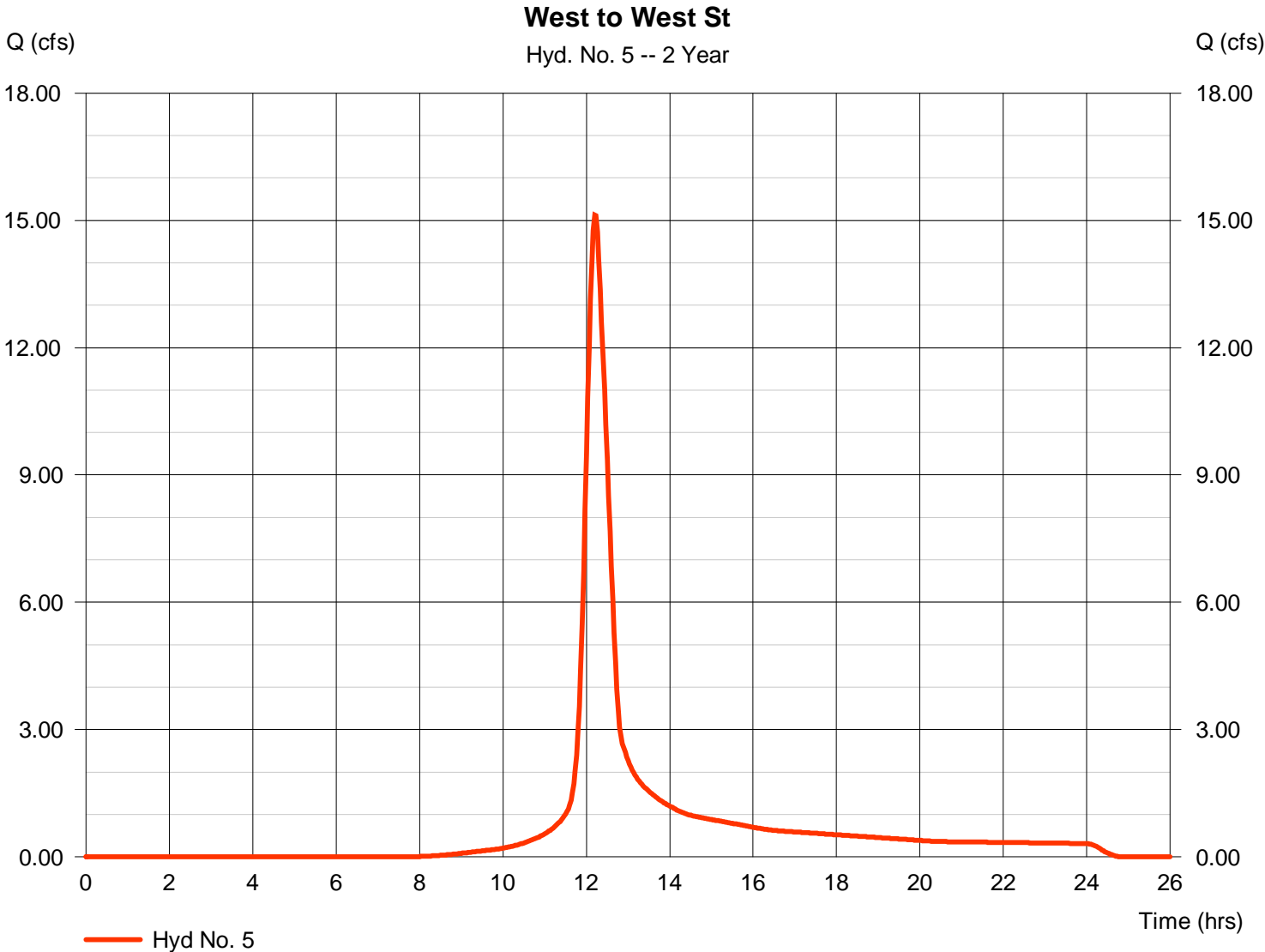
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Monday, 12 / 8 / 2014

Hyd. No. 5

West to West St

Hydrograph type	= SCS Runoff	Peak discharge	= 15.13 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 1.503 acft
Drainage area	= 9.200 ac	Curve number	= 84
Basin Slope	= 0.6 %	Hydraulic length	= 850 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.60 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	35.94	2	794	9.696	-----	-----	-----	Offsite North
2	SCS Runoff	145.81	2	732	14.892	-----	-----	-----	Site Flow
3	Combine	158.13	2	732	24.588	1, 2	-----	-----	Total to Pond
4	Reservoir	30.40	2	868	22.643	3	1281.74	13.5	Existing Pond
5	SCS Runoff	22.04	2	732	2.186	-----	-----	-----	West to West St
Lange 3rd.gpw					Return Period: 5 Year			Monday, 12 / 8 / 2014	

Hydrograph Report

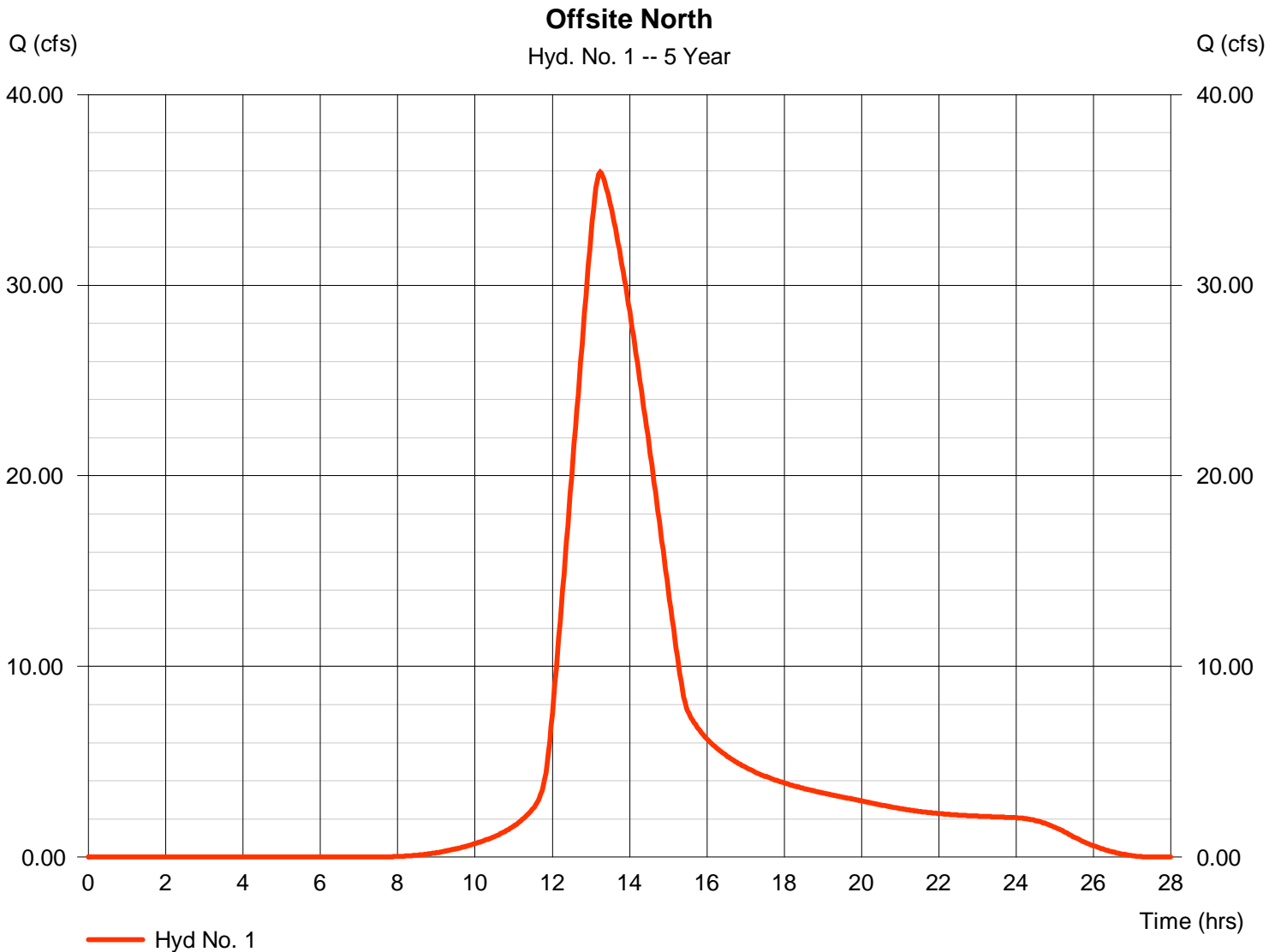
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 1

Offsite North

Hydrograph type	= SCS Runoff	Peak discharge	= 35.94 cfs
Storm frequency	= 5 yrs	Time to peak	= 13.23 hrs
Time interval	= 2 min	Hyd. volume	= 9.696 acft
Drainage area	= 44.000 ac	Curve number	= 82
Basin Slope	= 0.2 %	Hydraulic length	= 2000 ft
Tc method	= LAG	Time of conc. (Tc)	= 134.20 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

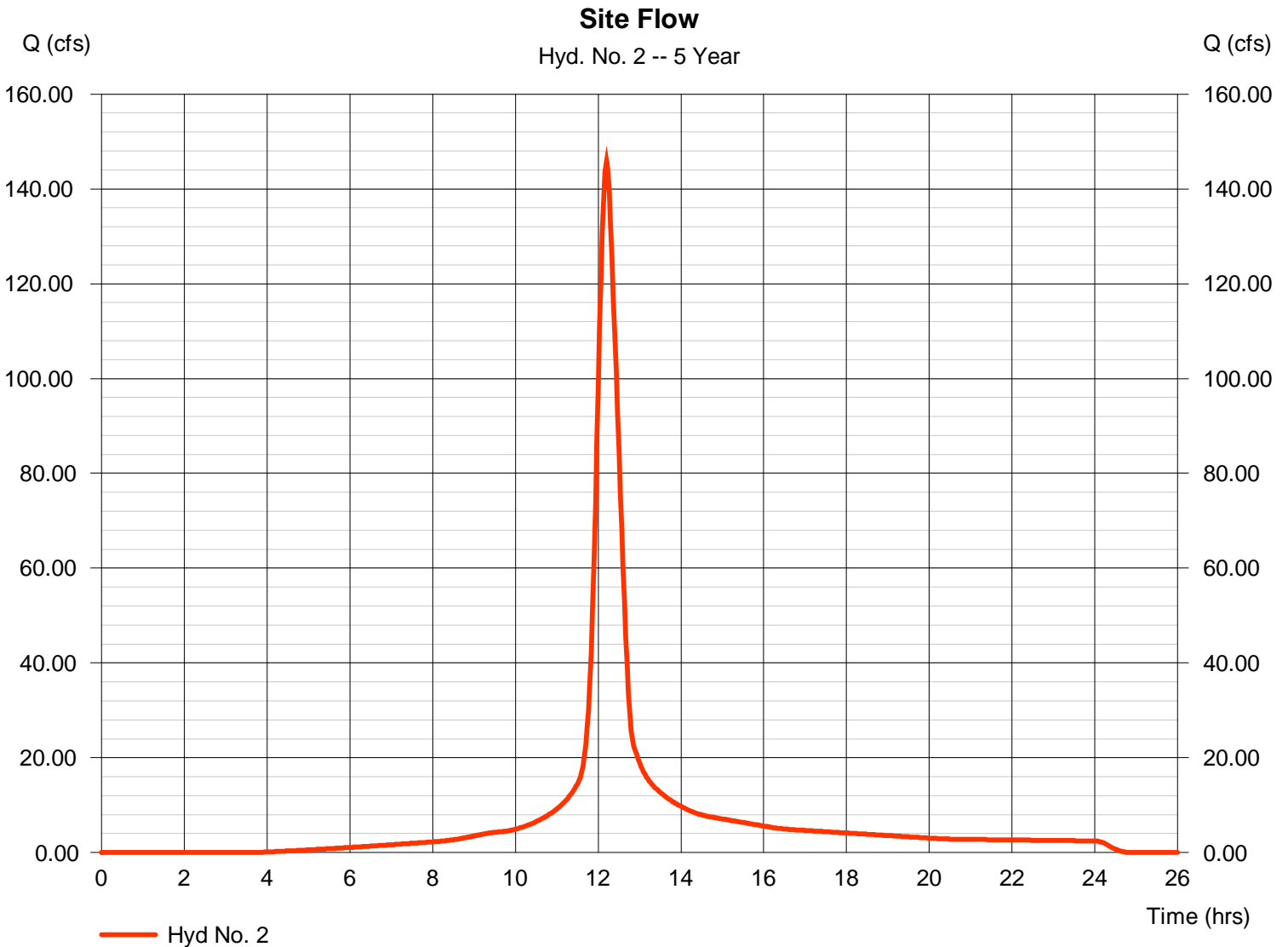
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 2

Site Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 145.81 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 14.892 acft
Drainage area	= 49.000 ac	Curve number	= 92
Basin Slope	= 0.5 %	Hydraulic length	= 1100 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.30 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

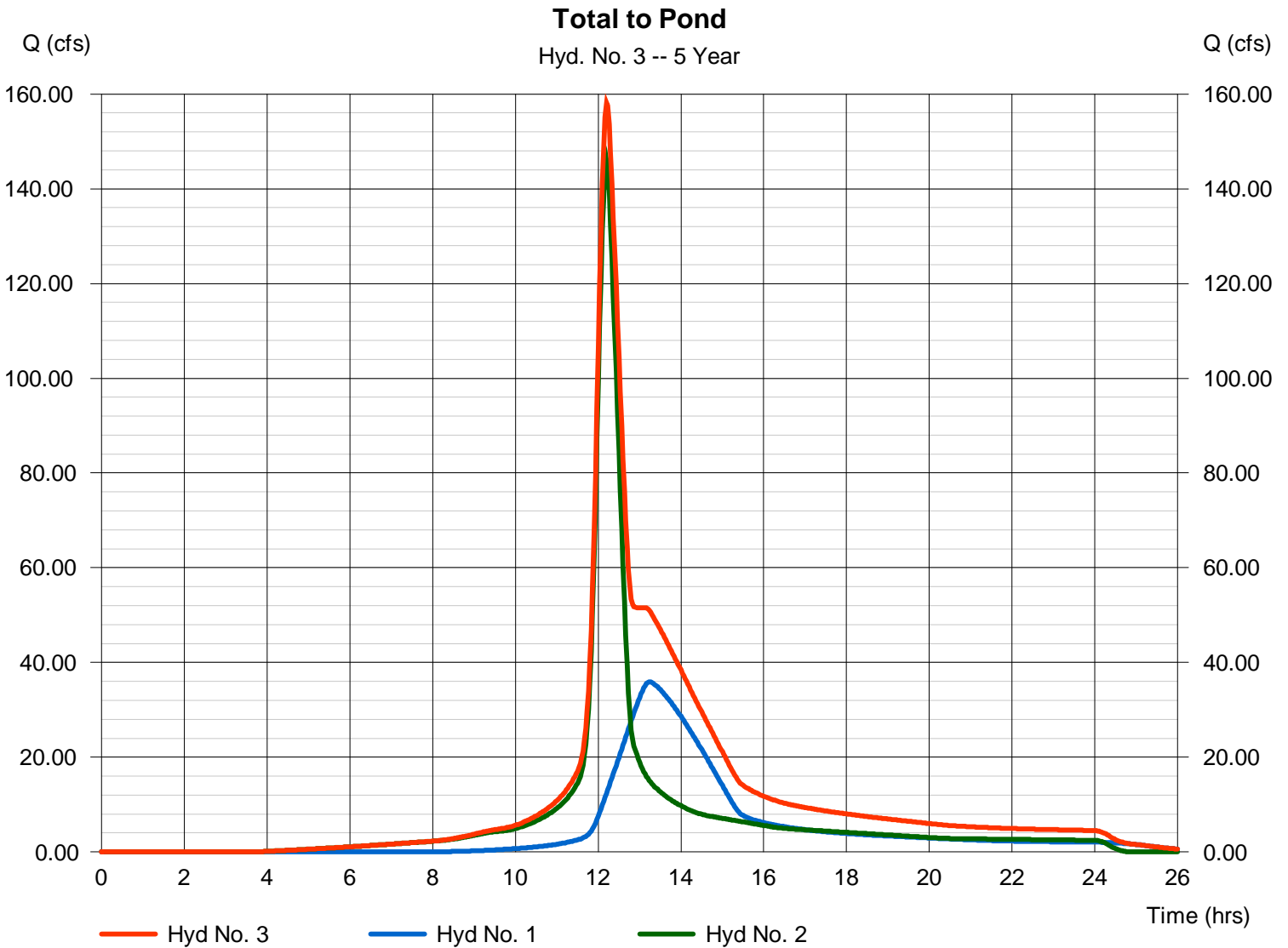
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Monday, 12 / 8 / 2014

Hyd. No. 3

Total to Pond

Hydrograph type	= Combine	Peak discharge	= 158.13 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 24.588 acft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 93.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

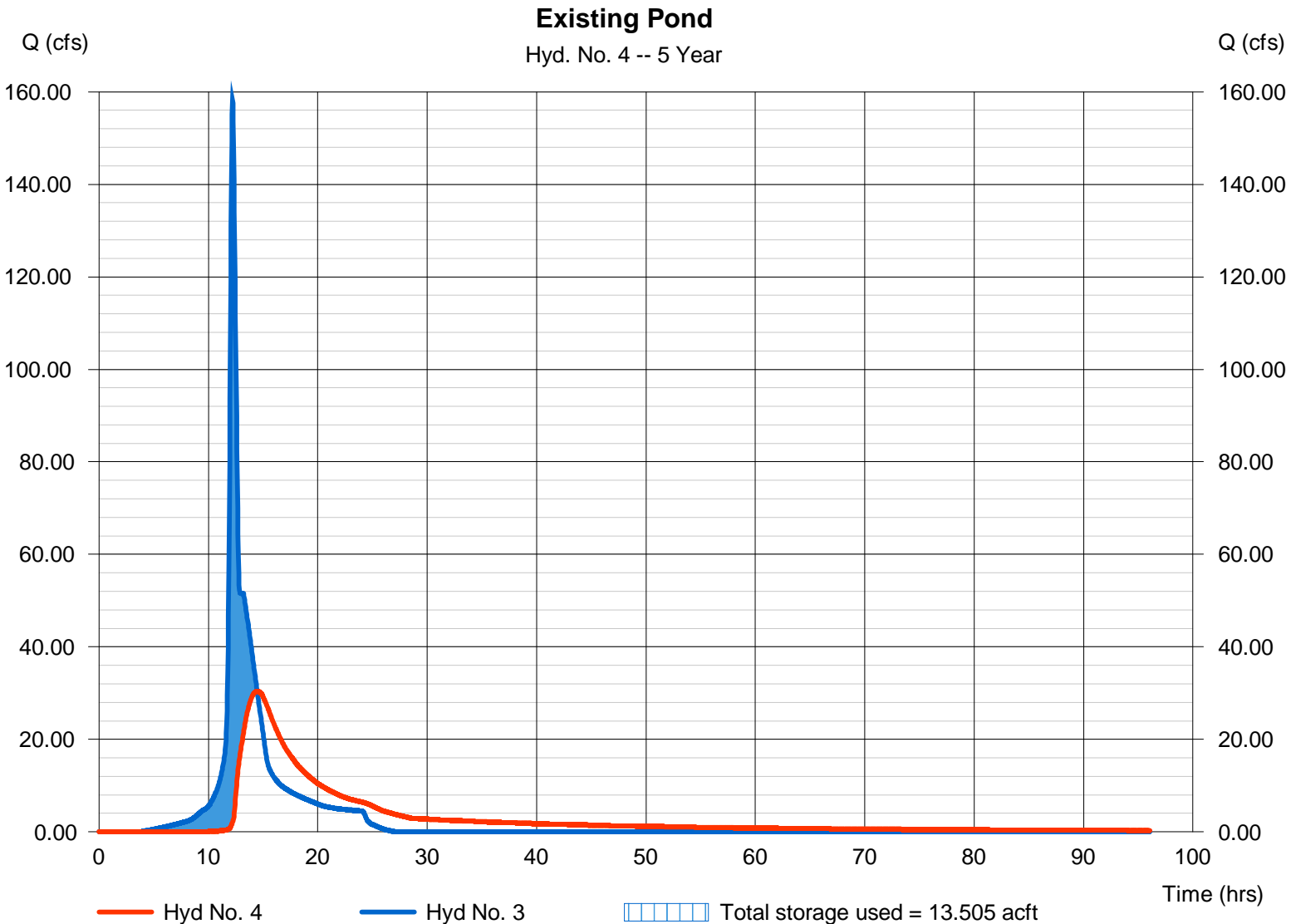
Monday, 12 / 8 / 2014

Hyd. No. 4

Existing Pond

Hydrograph type	= Reservoir	Peak discharge	= 30.40 cfs
Storm frequency	= 5 yrs	Time to peak	= 14.47 hrs
Time interval	= 2 min	Hyd. volume	= 22.643 acft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1281.74 ft
Reservoir name	= Existing Pond	Max. Storage	= 13.505 acft

Storage Indication method used.



Hydrograph Report

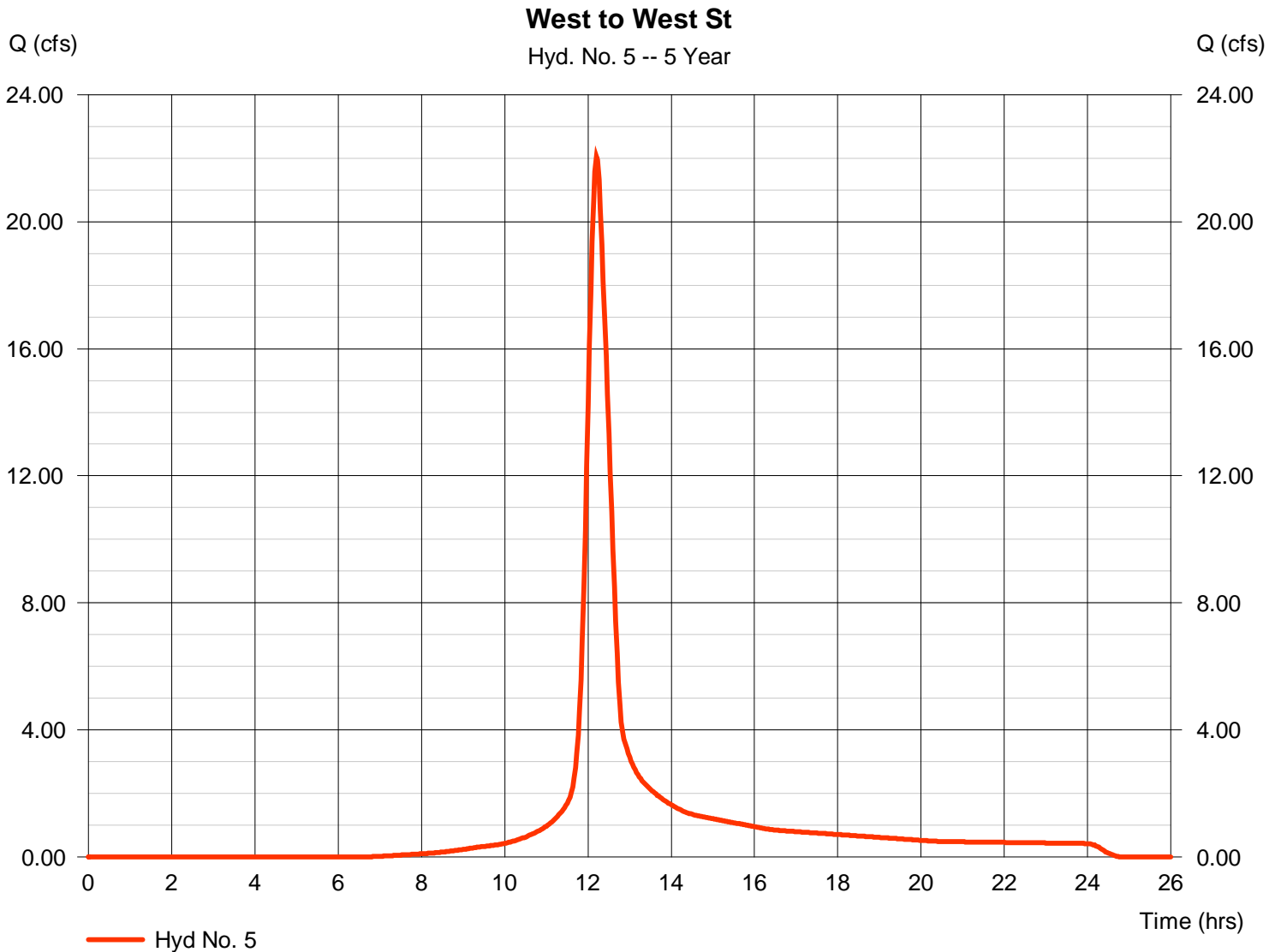
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Monday, 12 / 8 / 2014

Hyd. No. 5

West to West St

Hydrograph type	= SCS Runoff	Peak discharge	= 22.04 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 2.186 acft
Drainage area	= 9.200 ac	Curve number	= 84
Basin Slope	= 0.6 %	Hydraulic length	= 850 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.60 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description	
1	SCS Runoff	44.57	2	794	11.985	-----	-----	-----	Offsite North	
2	SCS Runoff	172.05	2	732	17.715	-----	-----	-----	Site Flow	
3	Combine	187.86	2	732	29.700	1, 2	-----	-----	Total to Pond	
4	Reservoir	42.08	2	852	27.743	3	1281.95	15.2	Existing Pond	
5	SCS Runoff	26.96	2	732	2.681	-----	-----	-----	West to West St	
Lange 3rd.gpw					Return Period: 10 Year			Monday, 12 / 8 / 2014		

Hydrograph Report

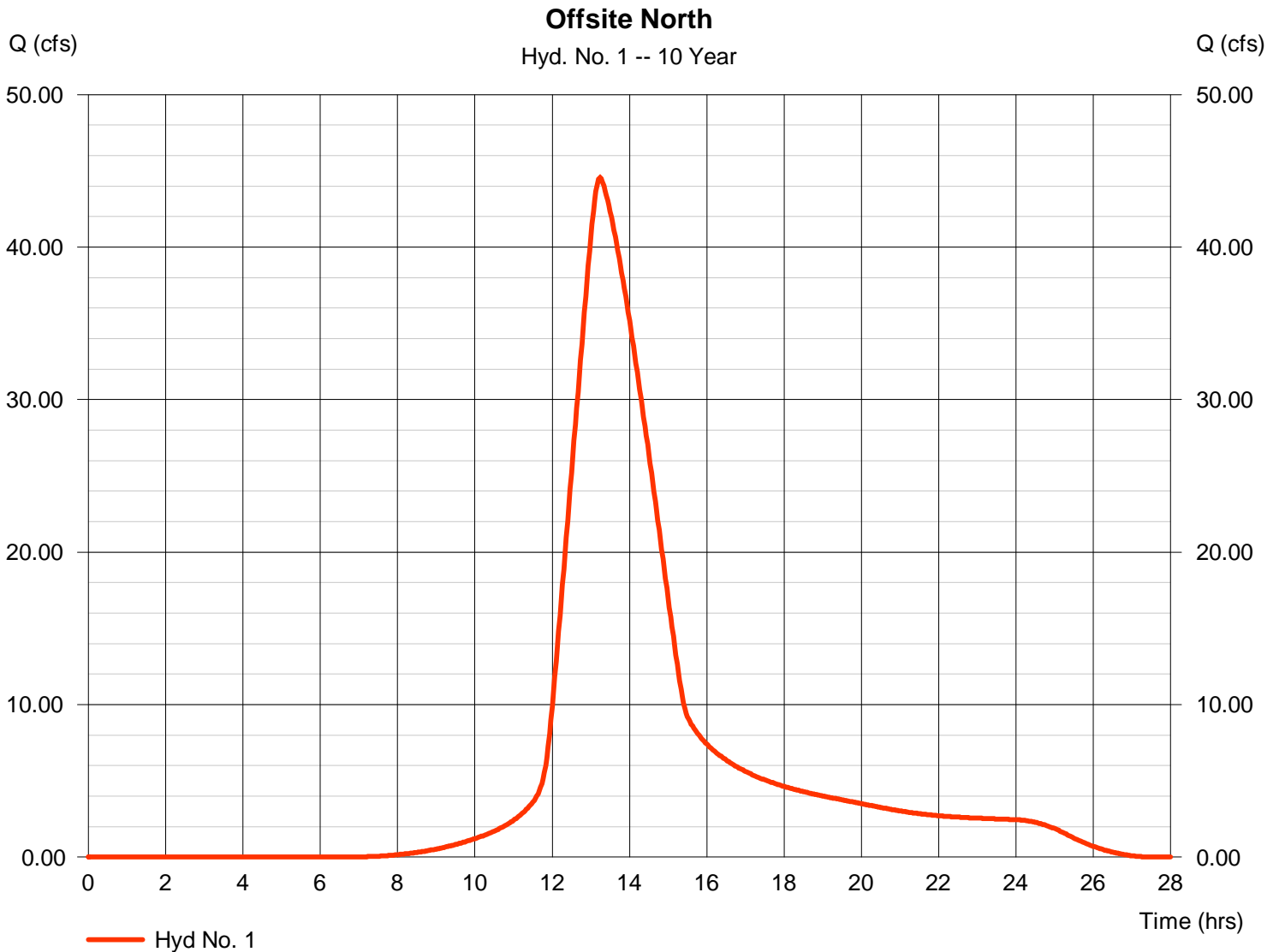
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 1

Offsite North

Hydrograph type	= SCS Runoff	Peak discharge	= 44.57 cfs
Storm frequency	= 10 yrs	Time to peak	= 13.23 hrs
Time interval	= 2 min	Hyd. volume	= 11.985 acft
Drainage area	= 44.000 ac	Curve number	= 82
Basin Slope	= 0.2 %	Hydraulic length	= 2000 ft
Tc method	= LAG	Time of conc. (Tc)	= 134.20 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

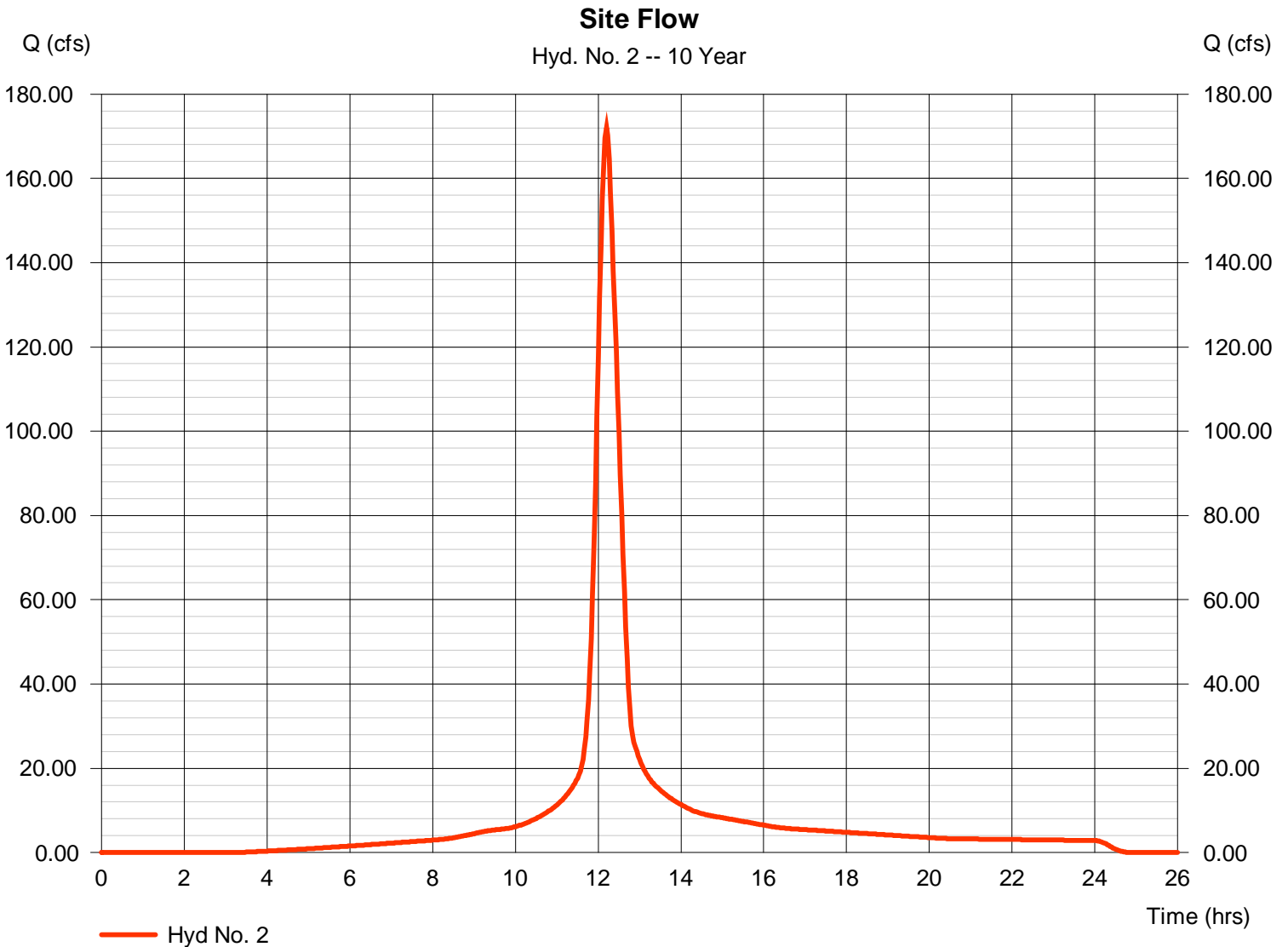
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 2

Site Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 172.05 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 17.715 acft
Drainage area	= 49.000 ac	Curve number	= 92
Basin Slope	= 0.5 %	Hydraulic length	= 1100 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.30 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

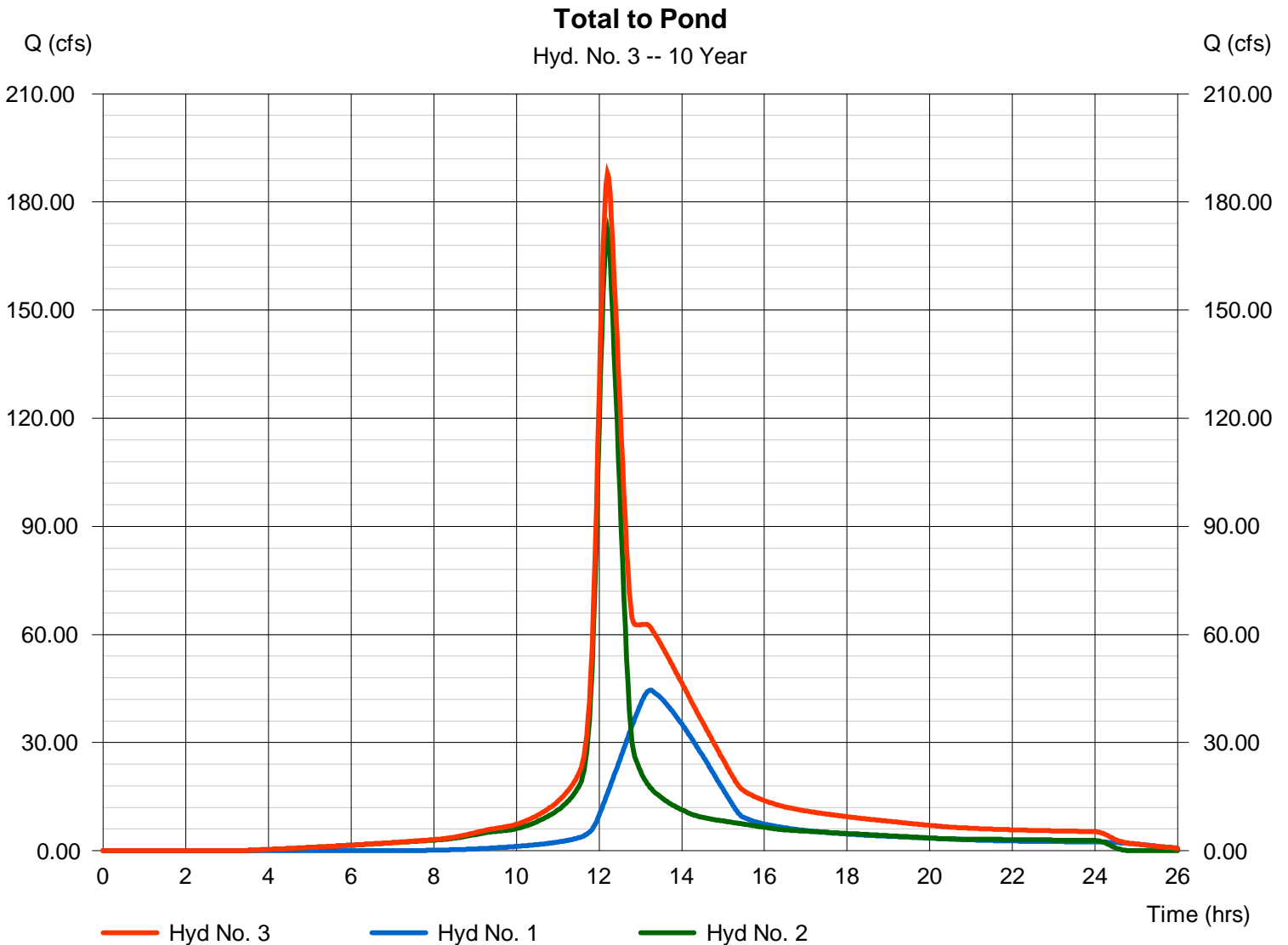
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 3

Total to Pond

Hydrograph type	= Combine	Peak discharge	= 187.86 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 29.700 acft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 93.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

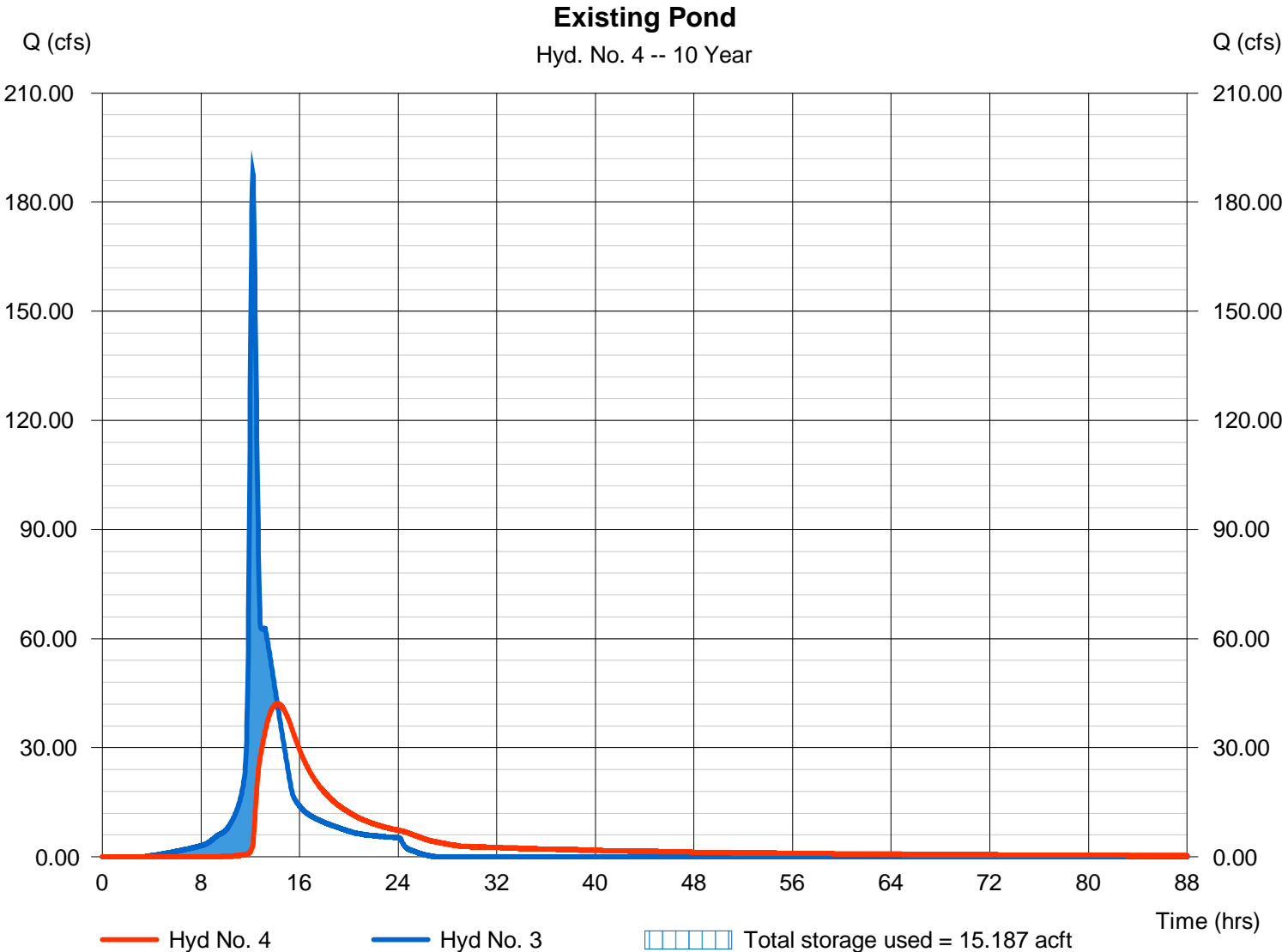
Monday, 12 / 8 / 2014

Hyd. No. 4

Existing Pond

Hydrograph type	= Reservoir	Peak discharge	= 42.08 cfs
Storm frequency	= 10 yrs	Time to peak	= 14.20 hrs
Time interval	= 2 min	Hyd. volume	= 27.743 acft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1281.95 ft
Reservoir name	= Existing Pond	Max. Storage	= 15.187 acft

Storage Indication method used.



Hydrograph Report

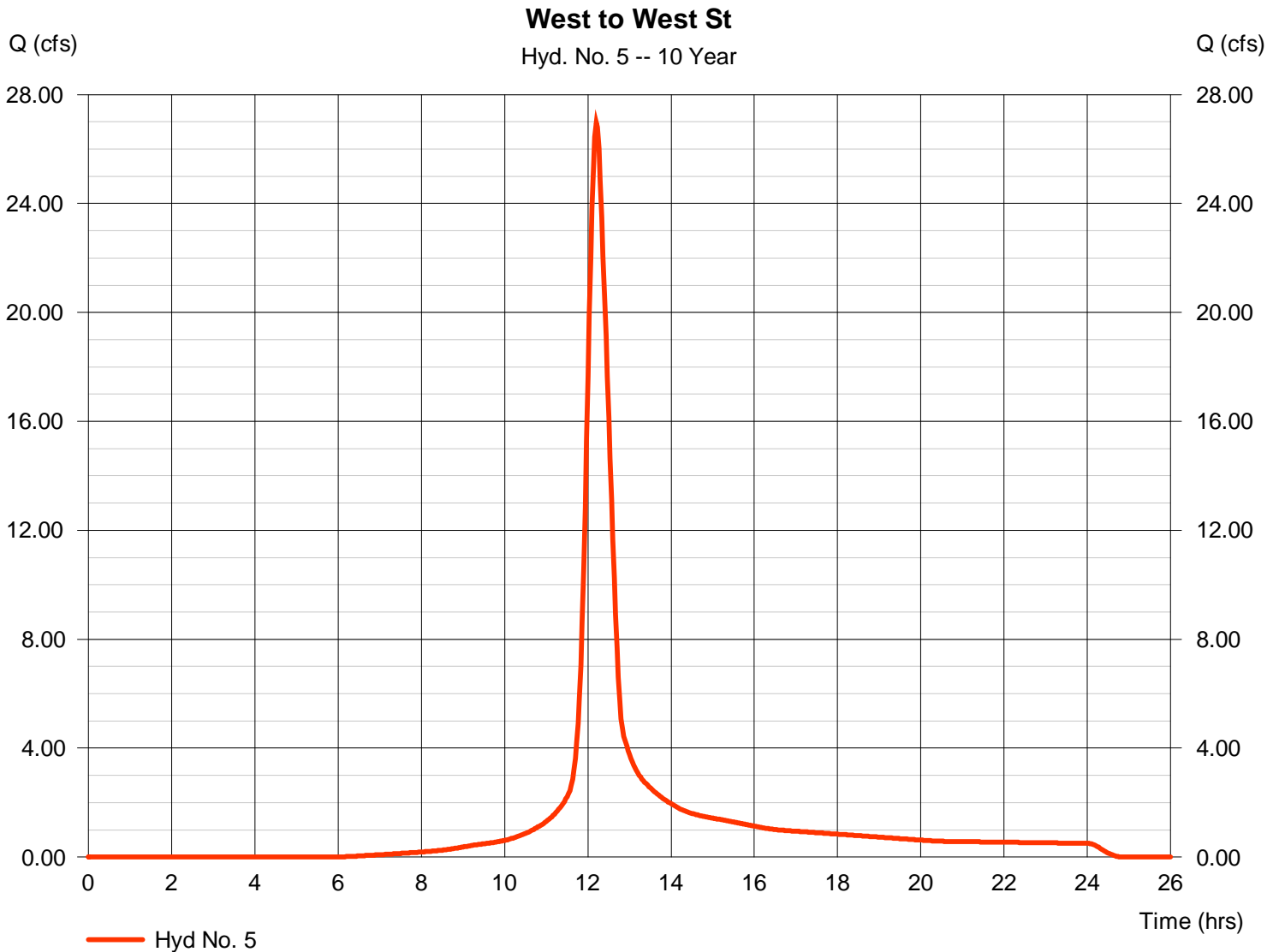
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 5

West to West St

Hydrograph type	= SCS Runoff	Peak discharge	= 26.96 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 2.681 acft
Drainage area	= 9.200 ac	Curve number	= 84
Basin Slope	= 0.6 %	Hydraulic length	= 850 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.60 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	77.41	2	794	20.855	-----	-----	-----	Offsite North
2	SCS Runoff	268.55	2	732	28.302	-----	-----	-----	Site Flow
3	Combine	298.10	2	732	49.157	1, 2	-----	-----	Total to Pond
4	Reservoir	94.08	2	812	47.170	3	1282.61	20.6	Existing Pond
5	SCS Runoff	45.41	2	732	4.583	-----	-----	-----	West to West St
Lange 3rd.gpw					Return Period: 100 Year			Monday, 12 / 8 / 2014	

Hydrograph Report

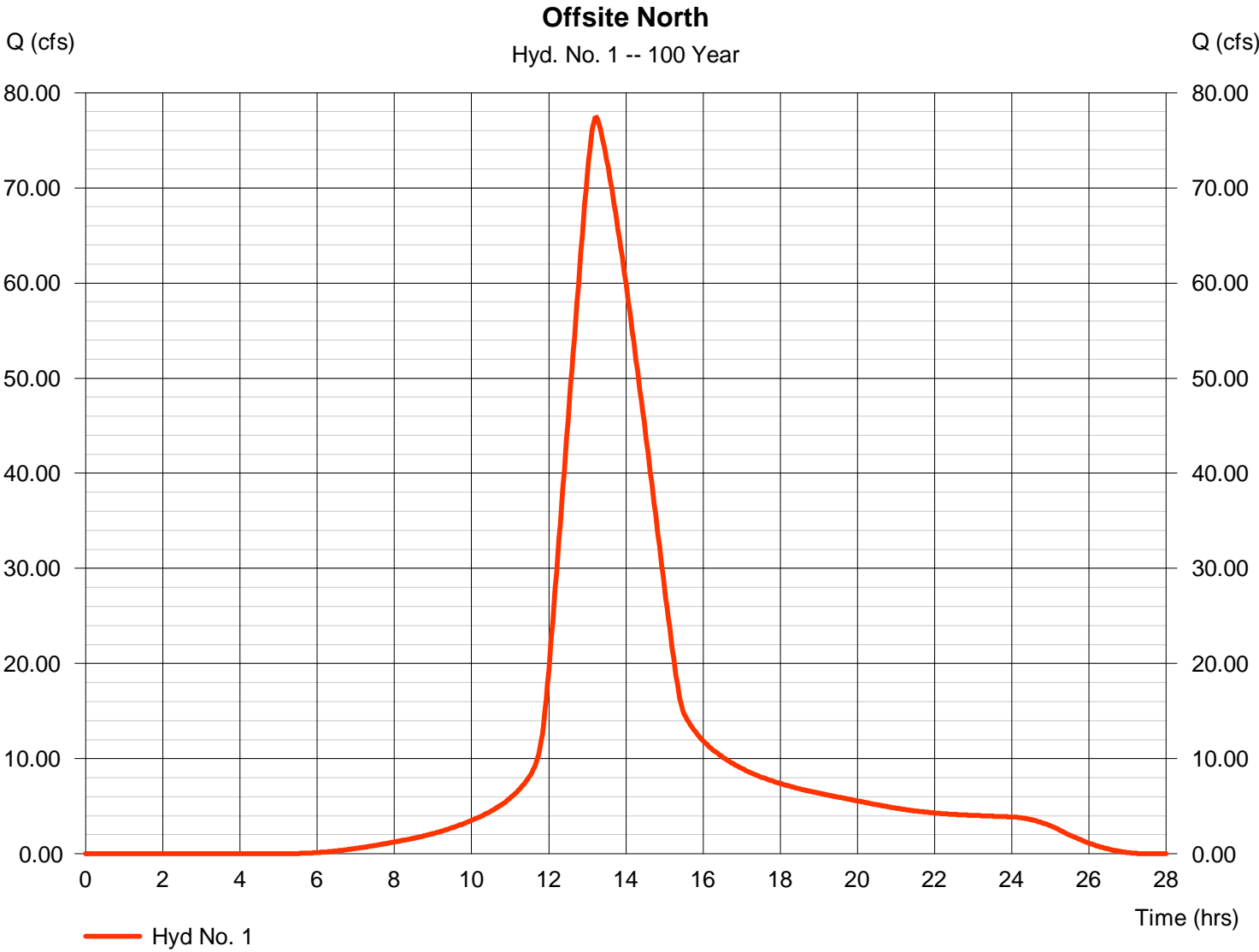
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 1

Offsite North

Hydrograph type	= SCS Runoff	Peak discharge	= 77.41 cfs
Storm frequency	= 100 yrs	Time to peak	= 13.23 hrs
Time interval	= 2 min	Hyd. volume	= 20.855 acft
Drainage area	= 44.000 ac	Curve number	= 82
Basin Slope	= 0.2 %	Hydraulic length	= 2000 ft
Tc method	= LAG	Time of conc. (Tc)	= 134.20 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

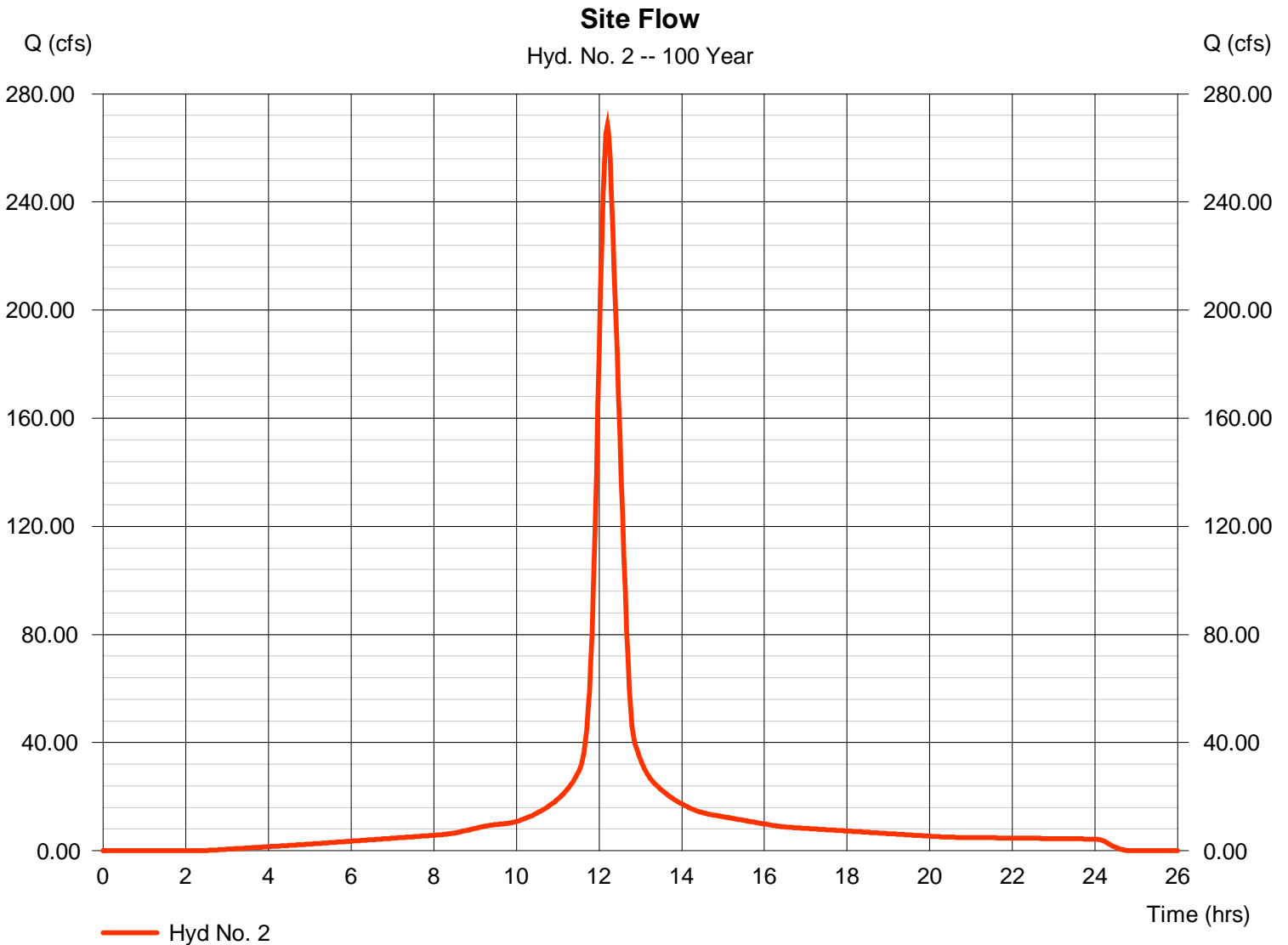
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 2

Site Flow

Hydrograph type	= SCS Runoff	Peak discharge	= 268.55 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 28.302 acft
Drainage area	= 49.000 ac	Curve number	= 92
Basin Slope	= 0.5 %	Hydraulic length	= 1100 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.30 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

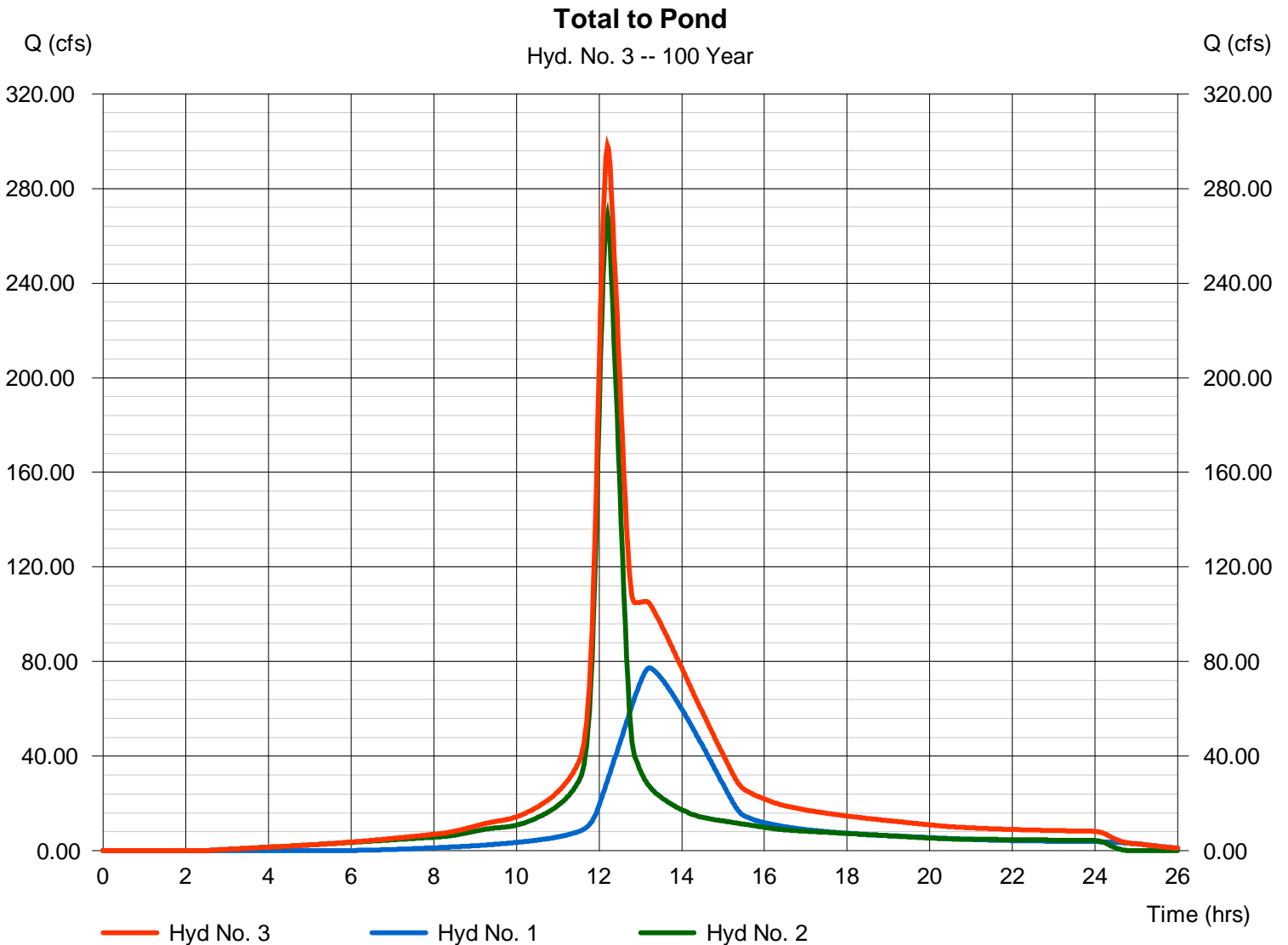
Monday, 12 / 8 / 2014

Hyd. No. 3

Total to Pond

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 1, 2

Peak discharge = 298.10 cfs
Time to peak = 12.20 hrs
Hyd. volume = 49.157 acft
Contrib. drain. area = 93.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

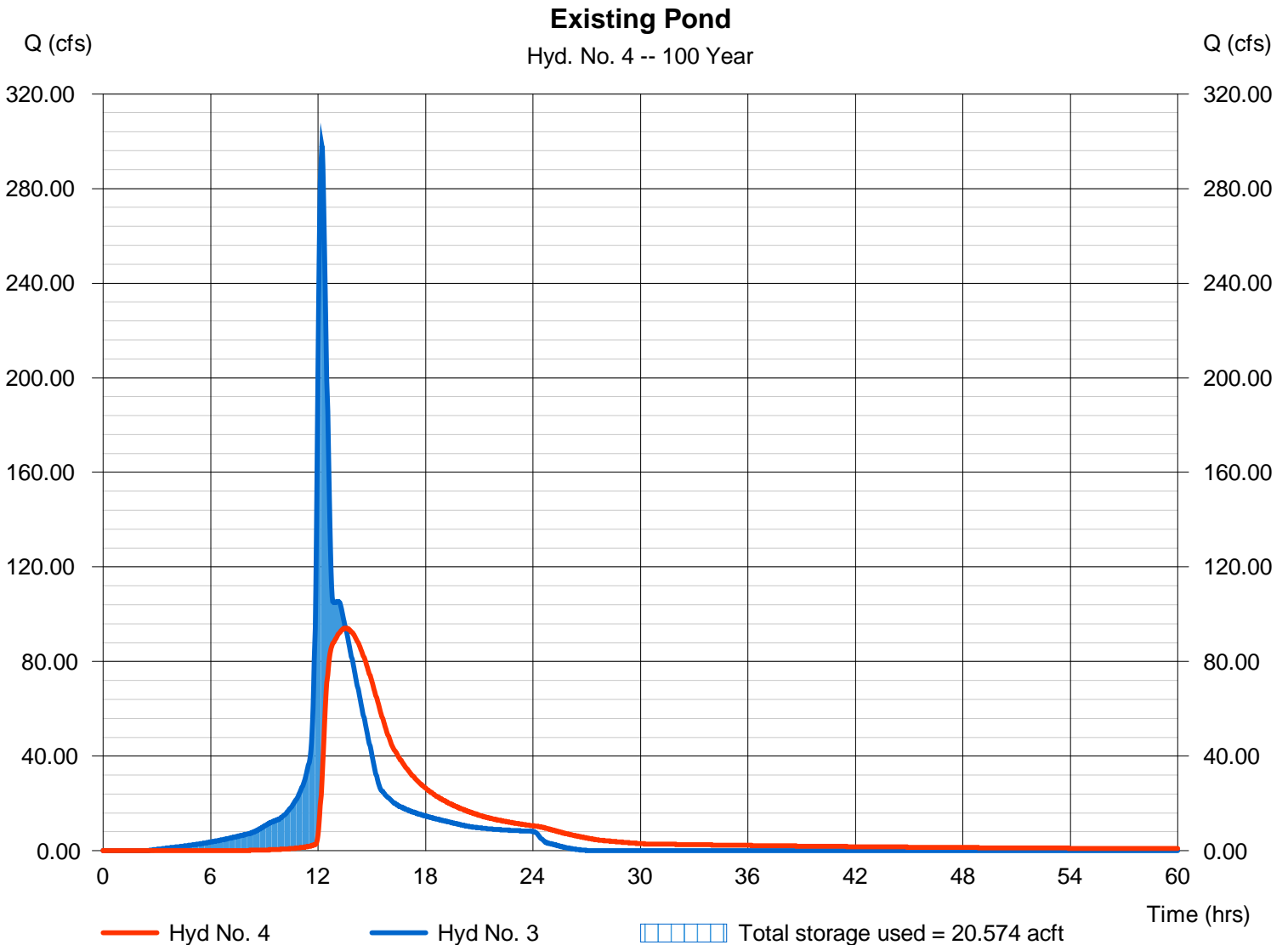
Monday, 12 / 8 / 2014

Hyd. No. 4

Existing Pond

Hydrograph type	= Reservoir	Peak discharge	= 94.08 cfs
Storm frequency	= 100 yrs	Time to peak	= 13.53 hrs
Time interval	= 2 min	Hyd. volume	= 47.170 acft
Inflow hyd. No.	= 3 - Total to Pond	Max. Elevation	= 1282.61 ft
Reservoir name	= Existing Pond	Max. Storage	= 20.574 acft

Storage Indication method used.



Hydrograph Report

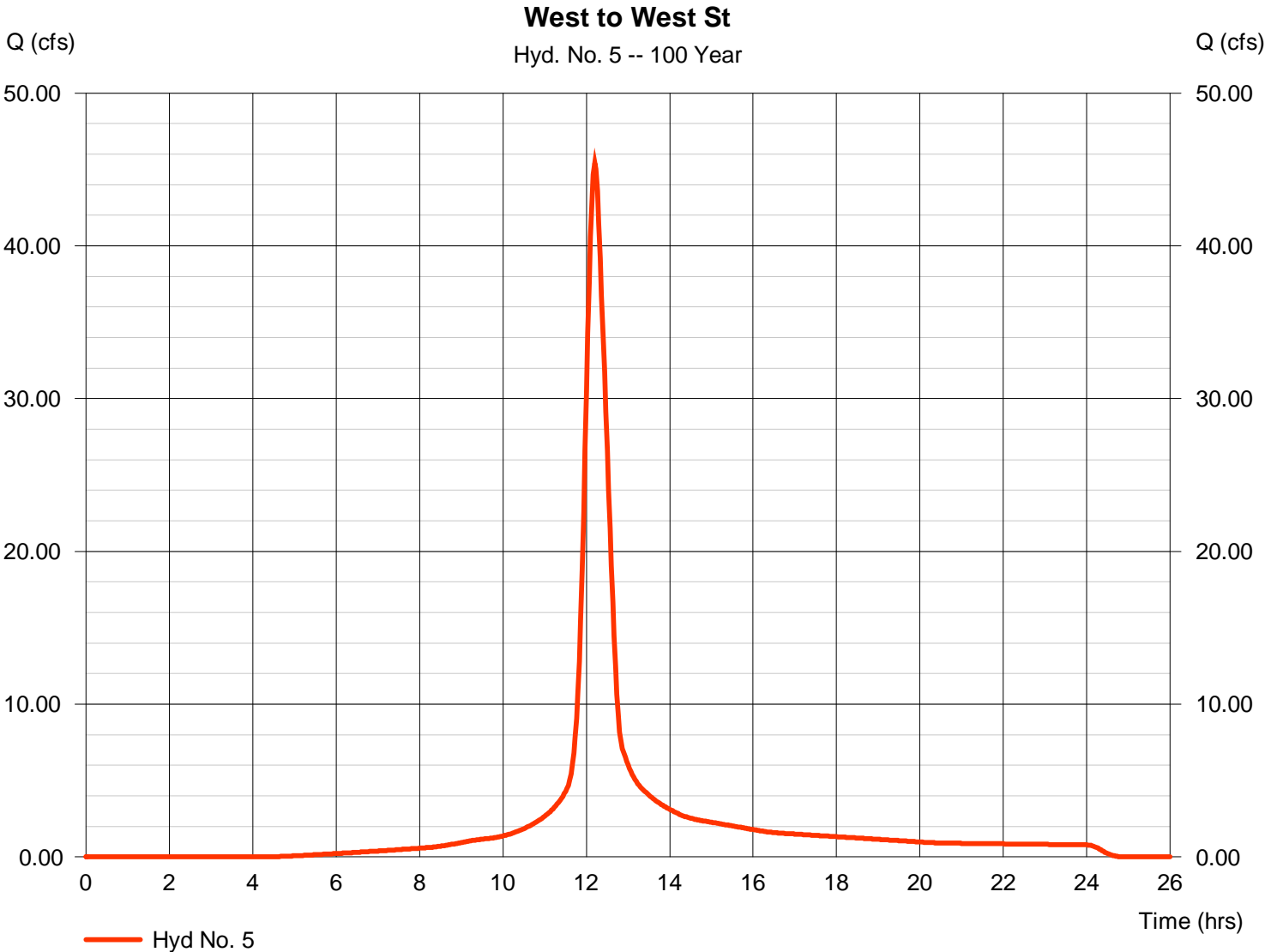
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Hyd. No. 5

West to West St

Hydrograph type	= SCS Runoff	Peak discharge	= 45.41 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.20 hrs
Time interval	= 2 min	Hyd. volume	= 4.583 acft
Drainage area	= 9.200 ac	Curve number	= 84
Basin Slope	= 0.6 %	Hydraulic length	= 850 ft
Tc method	= LAG	Time of conc. (Tc)	= 31.60 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



Hydraflow Rainfall Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2013 by Autodesk, Inc. v10

Monday, 12 / 8 / 2014

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	27.8967	9.8000	0.7047	-----
2	76.3137	14.3000	0.8844	-----
3	1.2000	0.1000	0.0000	-----
5	52.6224	11.2000	0.7497	-----
10	55.1841	11.1000	0.7229	-----
25	60.7012	11.1000	0.7068	-----
50	66.9222	11.3000	0.7004	-----
100	62.2794	10.1000	0.6624	-----

File name: wich_IDF.IDF

$$\text{Intensity} = B / (Tc + D)^E$$

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	4.18	3.40	2.90	2.55	2.29	2.08	1.91	1.78	1.66	1.56	1.48	1.40
2	5.57	4.54	3.85	3.35	2.97	2.67	2.43	2.23	2.06	1.92	1.80	1.69
3	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
5	6.52	5.33	4.55	3.99	3.57	3.24	2.97	2.75	2.57	2.41	2.27	2.15
10	7.40	6.09	5.22	4.60	4.13	3.76	3.46	3.21	3.00	2.82	2.67	2.53
25	8.51	7.03	6.05	5.35	4.81	4.39	4.05	3.76	3.52	3.32	3.14	2.98
50	9.47	7.86	6.78	6.00	5.41	4.94	4.56	4.24	3.98	3.75	3.55	3.37
100	10.31	8.53	7.37	6.53	5.90	5.40	5.00	4.66	4.37	4.13	3.92	3.73

Tc = time in minutes. Values may exceed 60.

Precip. file name: wich_24hr.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	2.80	3.50	1.20	4.50	5.20	6.10	6.90	7.80
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	1.75	0.00	2.80	3.90	5.25	6.00	7.10

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