Attachment 1
Cayuga Creek

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Cayuga Creek.gpw

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

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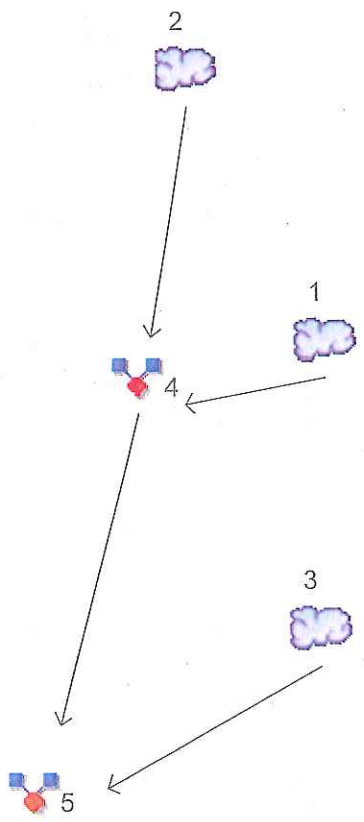
Watershed Model Schematic

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3



Legend

Hyd.	Origin	Description
1	SCS Runoff	CAA (CA-3)
2	SCS Runoff	CAA (CA-A4)
3	SCS Runoff	CAA (CA-2)
4	Combine	<no description>
5	Combine	Walmore Rd

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

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	------	-------	-------	-------	-------	379.21	559.29	-------	960.47	CAA (CA-3)
2	SCS Runoff	------	-------	-------	-------	-------	88.84	129.87	-------	220.84	CAA (CA-A4)
3	SCS Runoff	------	-------	-------	-------	-------	83.08	120.76	-------	201.78	CAA (CA-2)
4	Combine	1, 2,	-------	-------	-------	-------	443.24	650.48	-------	1111.58	<no description>
5	Combine	3, 4	-------	-------	-------	-------	455.10	666.93	-------	1137.50	Walmore Rd

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

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	SCS Runoff	379.21	2	1186	17,345,440	------	------	------	CAA (CA-3)
2	SCS Runoff	88.84	2	1454	5,679,153	------	------	------	CAA (CA-A4)
3	SCS Runoff	83.08	2	836	1,394,797	------	------	------	CAA (CA-2)
4	Combine	443.24	2	1250	23,024,560	1, 2,	------	------	<no description>
5	Combine	455.10	2	1236	24,419,360	3, 4	------	------	Walmore Rd

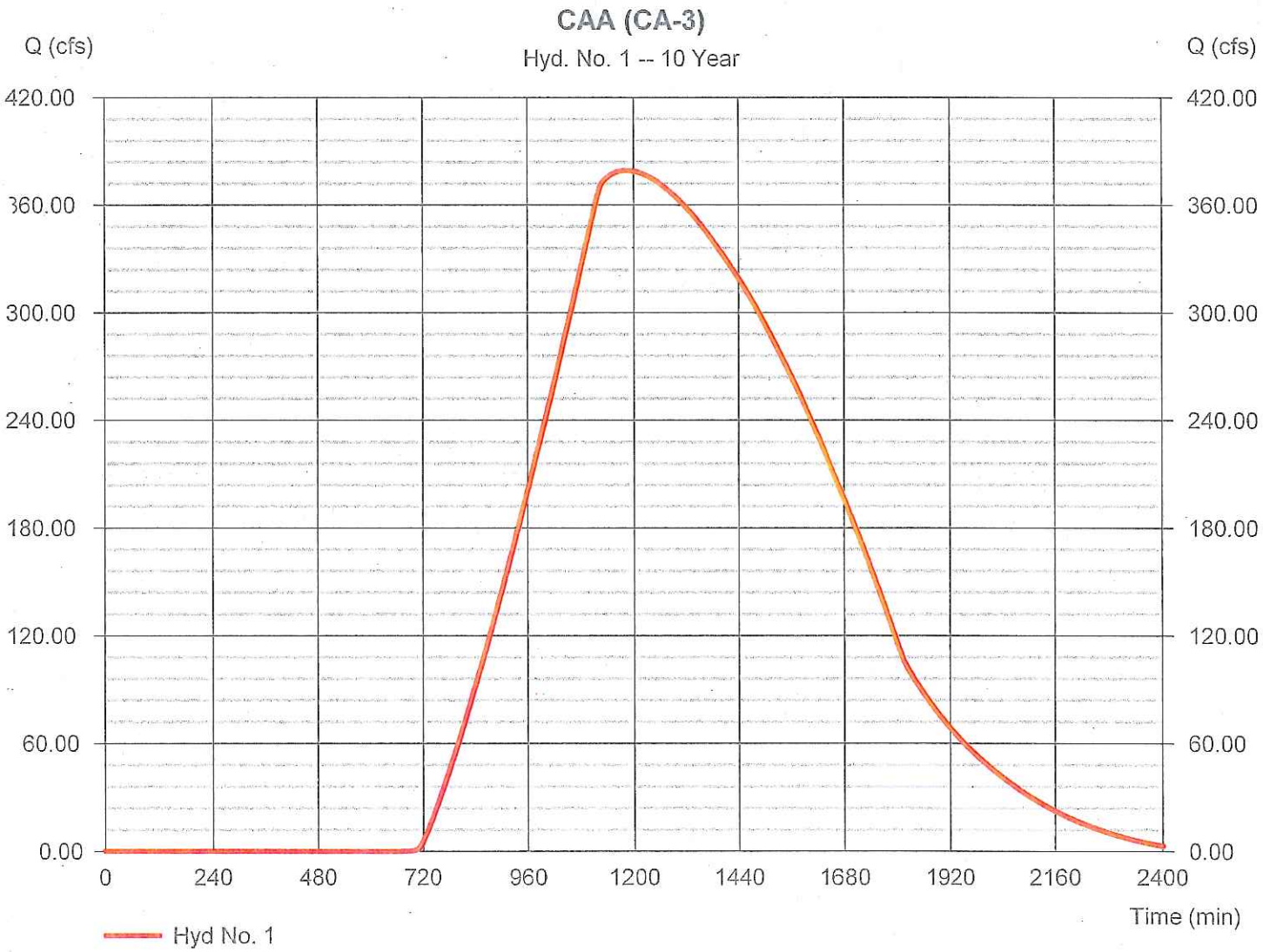
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 1

CAA (CA-3)

Hydrograph type	= SCS Runoff	Peak discharge	= 379.21 cfs
Storm frequency	= 10 yrs	Time to peak	= 1186 min
Time interval	= 2 min	Hyd. volume	= 17,345,440 cuft
Drainage area	= 4739.000 ac	Curve number	= 76
Basin Slope	= 0.2 %	Hydraulic length	= 15000 ft
Tc method	= LAG	Time of conc. (Tc)	= 700.94 min
Total precip.	= 2.99 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



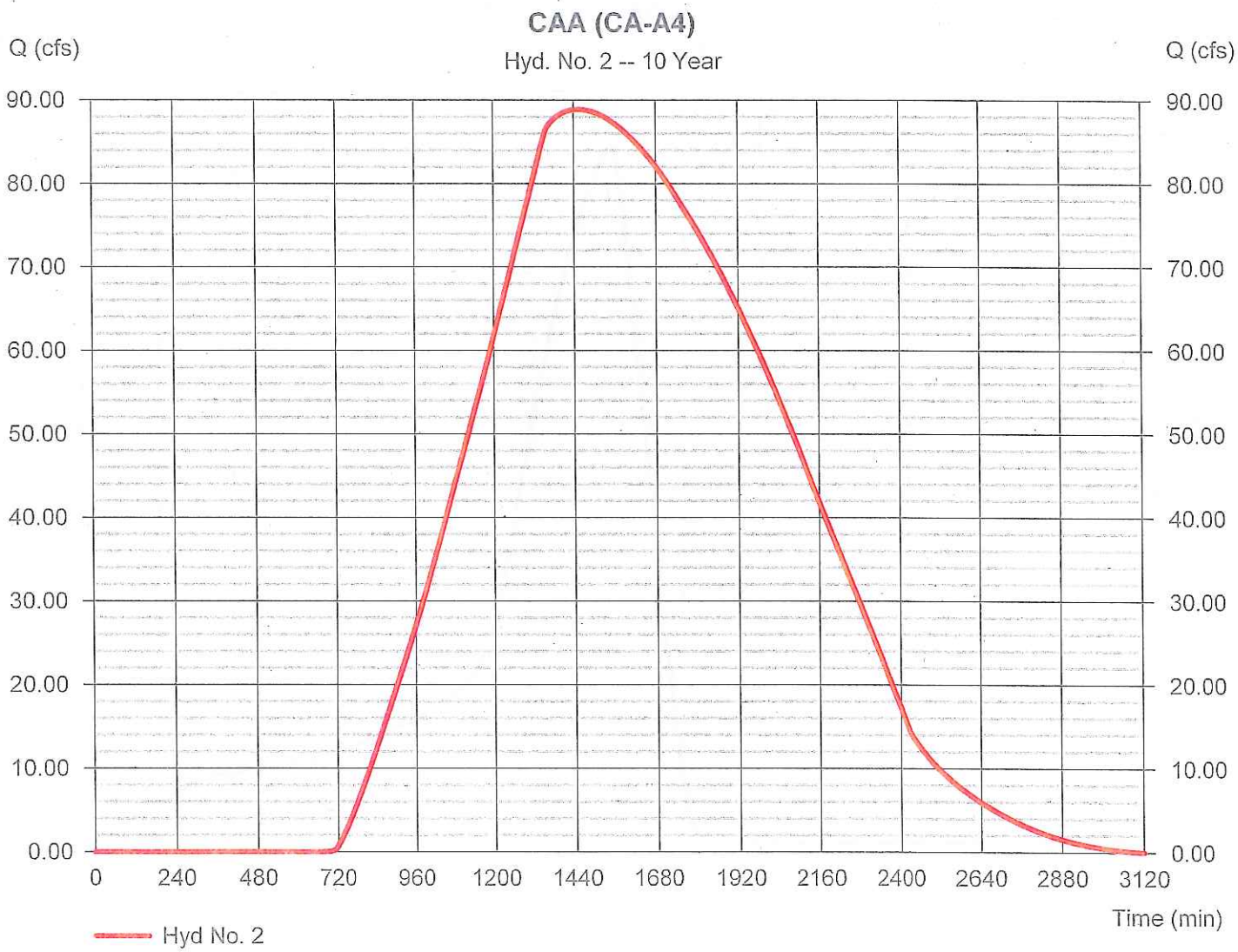
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 2

CAA (CA-A4)

Hydrograph type	= SCS Runoff	Peak discharge	= 88.84 cfs
Storm frequency	= 10 yrs	Time to peak	= 1454 min
Time interval	= 2 min	Hyd. volume	= 5,679,153 cuft
Drainage area	= 1551.000 ac	Curve number	= 76
Basin Slope	= 0.1 %	Hydraulic length	= 18000 ft
Tc method	= LAG	Time of conc. (Tc)	= 1093.57 min
Total precip.	= 2.99 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



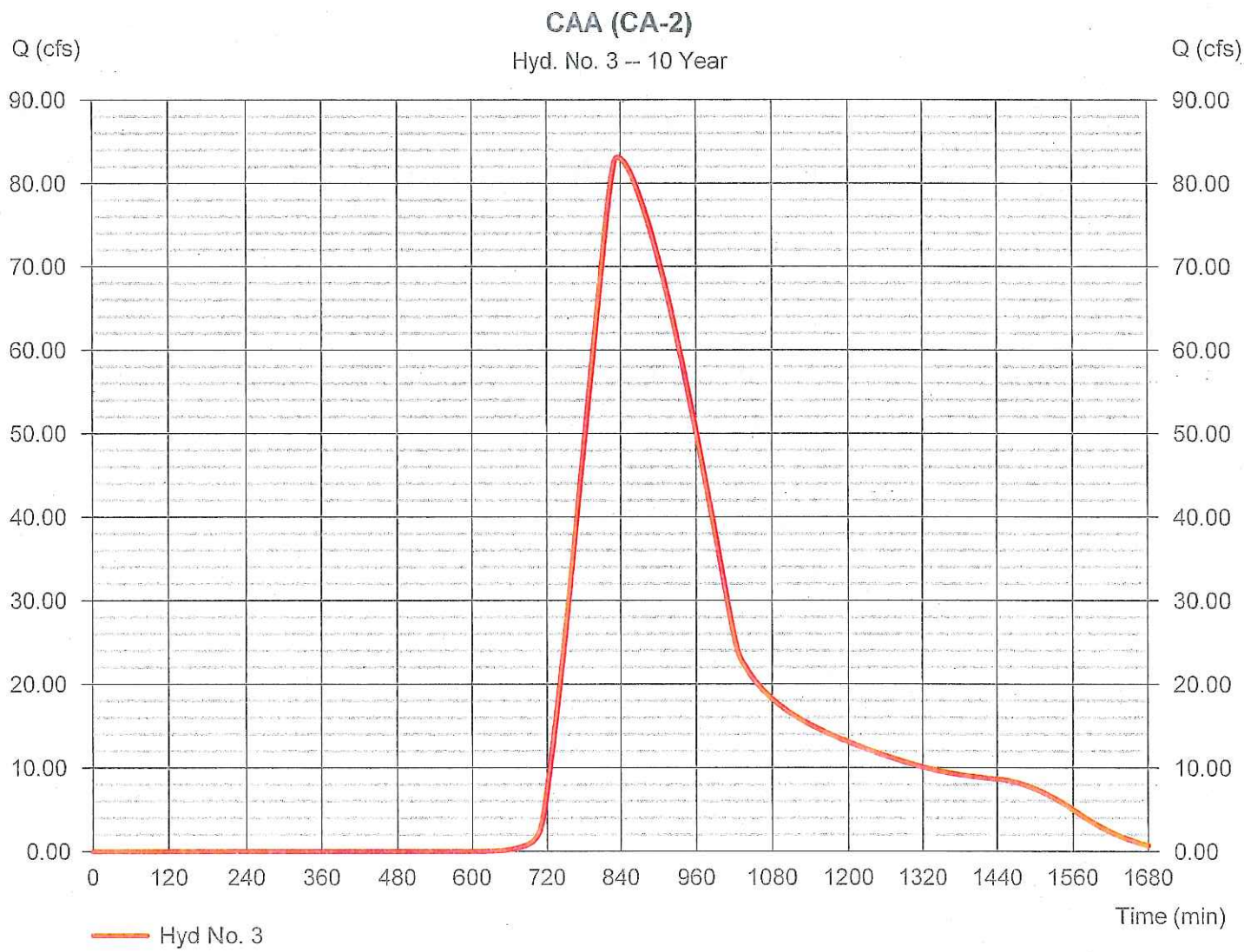
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 3

CAA (CA-2)

Hydrograph type	= SCS Runoff	Peak discharge	= 83.08 cfs
Storm frequency	= 10 yrs	Time to peak	= 836 min
Time interval	= 2 min	Hyd. volume	= 1,394,797 cuft
Drainage area	= 326.000 ac	Curve number	= 79
Basin Slope	= 0.5 %	Hydraulic length	= 6200 ft
Tc method	= LAG	Time of conc. (Tc)	= 199.91 min
Total precip.	= 2.99 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



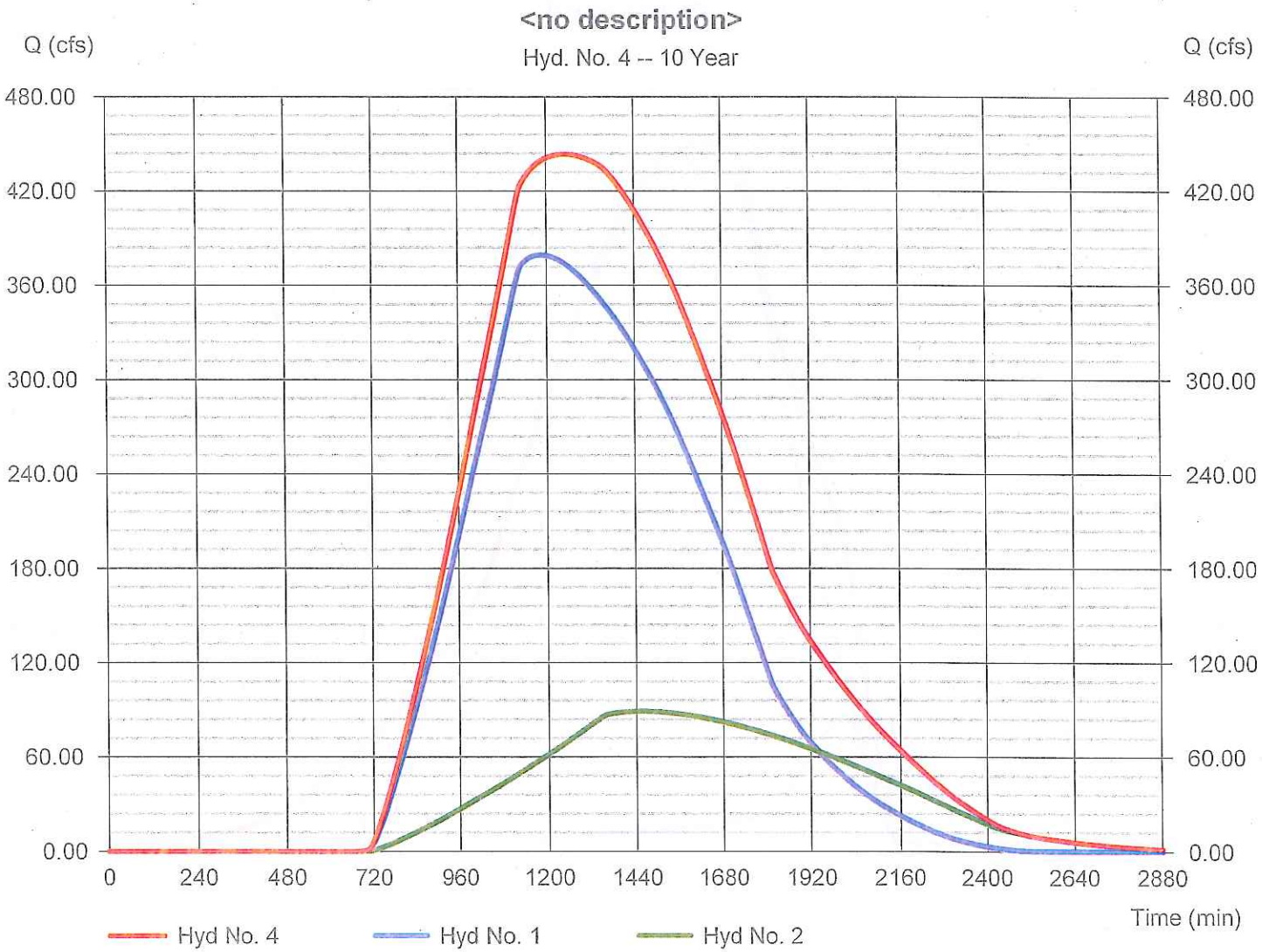
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 4

<no description>

Hydrograph type	= Combine	Peak discharge	= 443.24 cfs
Storm frequency	= 10 yrs	Time to peak	= 1250 min
Time interval	= 2 min	Hyd. volume	= 23,024,560 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 6290.000 ac



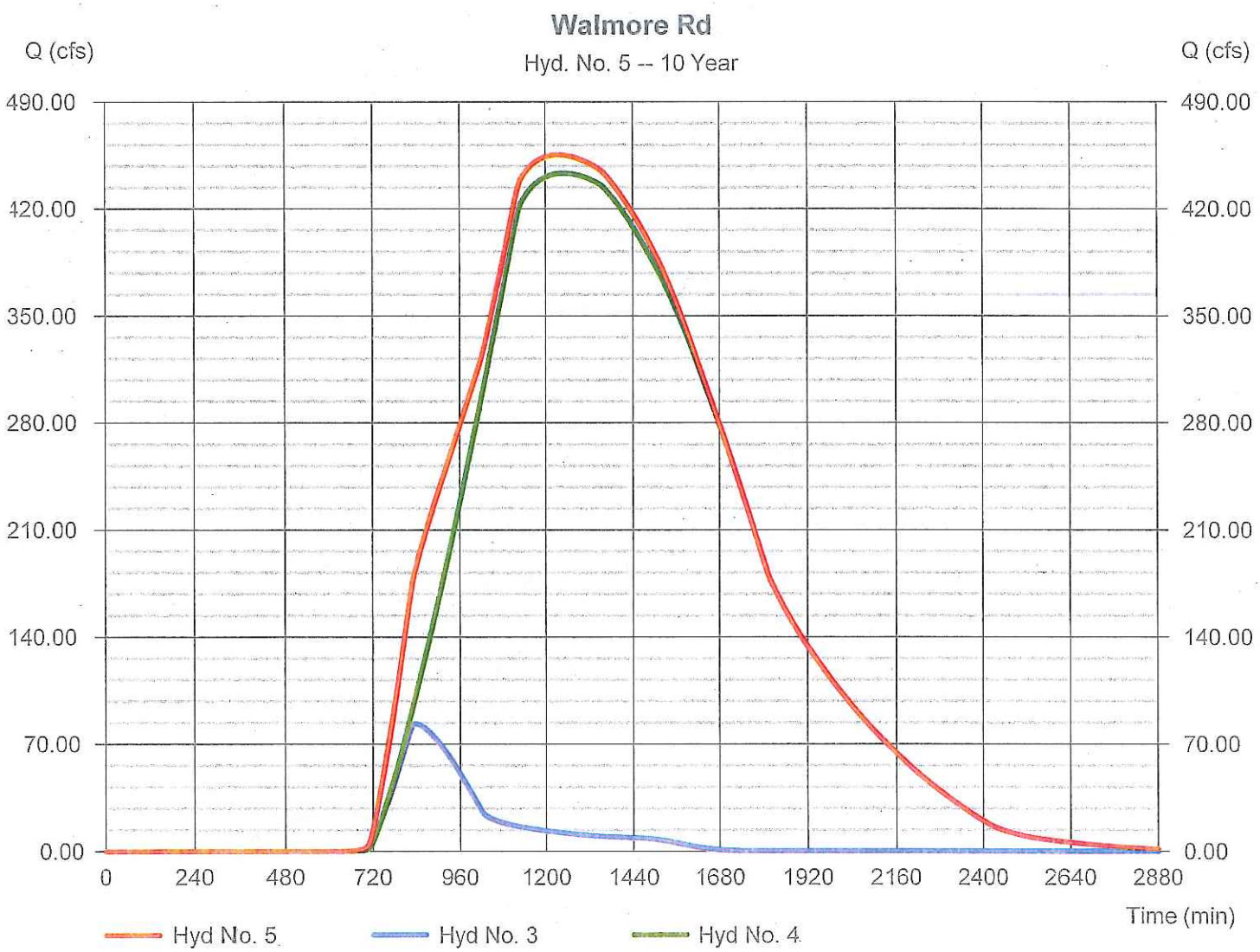
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 5

Walmore Rd

Hydrograph type	= Combine	Peak discharge	= 455.10 cfs
Storm frequency	= 10 yrs	Time to peak	= 1236 min
Time interval	= 2 min	Hyd. volume	= 24,419,360 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 326.000 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

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	SCS Runoff	559.29	2	1170	25,122,080	------	------	------	CAA (CA-3)
2	SCS Runoff	129.87	2	1434	8,225,326	------	------	------	CAA (CA-A4)
3	SCS Runoff	120.76	2	834	1,969,245	------	------	------	CAA (CA-2)
4	Combine	650.48	2	1228	33,347,420	1, 2,	------	------	<no description>
5	Combine	666.93	2	1216	35,316,672	3, 4	------	------	Walmore Rd

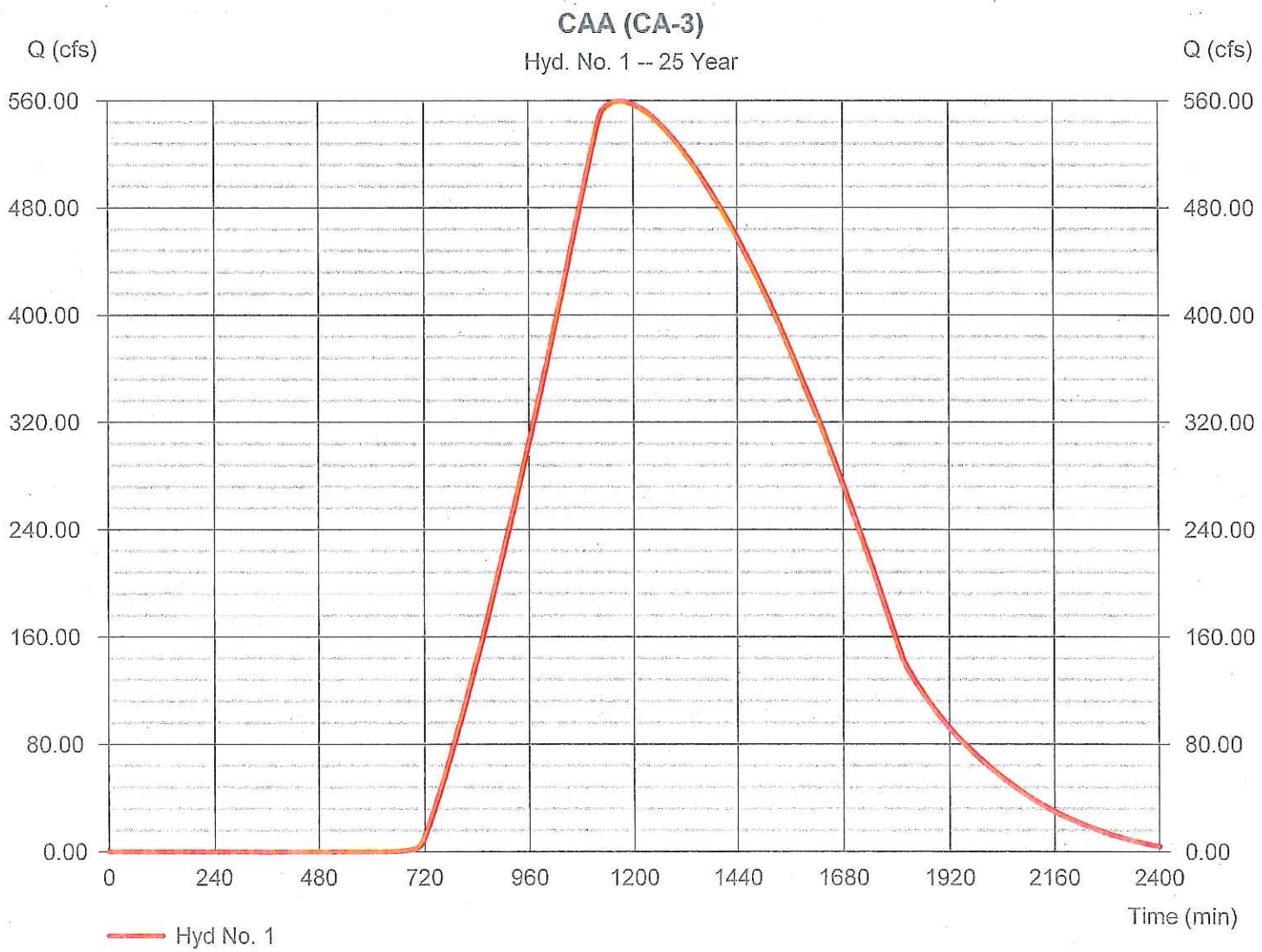
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 1

CAA (CA-3)

Hydrograph type	= SCS Runoff	Peak discharge	= 559.29 cfs
Storm frequency	= 25 yrs	Time to peak	= 1170 min
Time interval	= 2 min	Hyd. volume	= 25,122,080 cuft
Drainage area	= 4739.000 ac	Curve number	= 76
Basin Slope	= 0.2 %	Hydraulic length	= 15000 ft
Tc method	= LAG	Time of conc. (Tc)	= 700.94 min
Total precip.	= 3.63 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



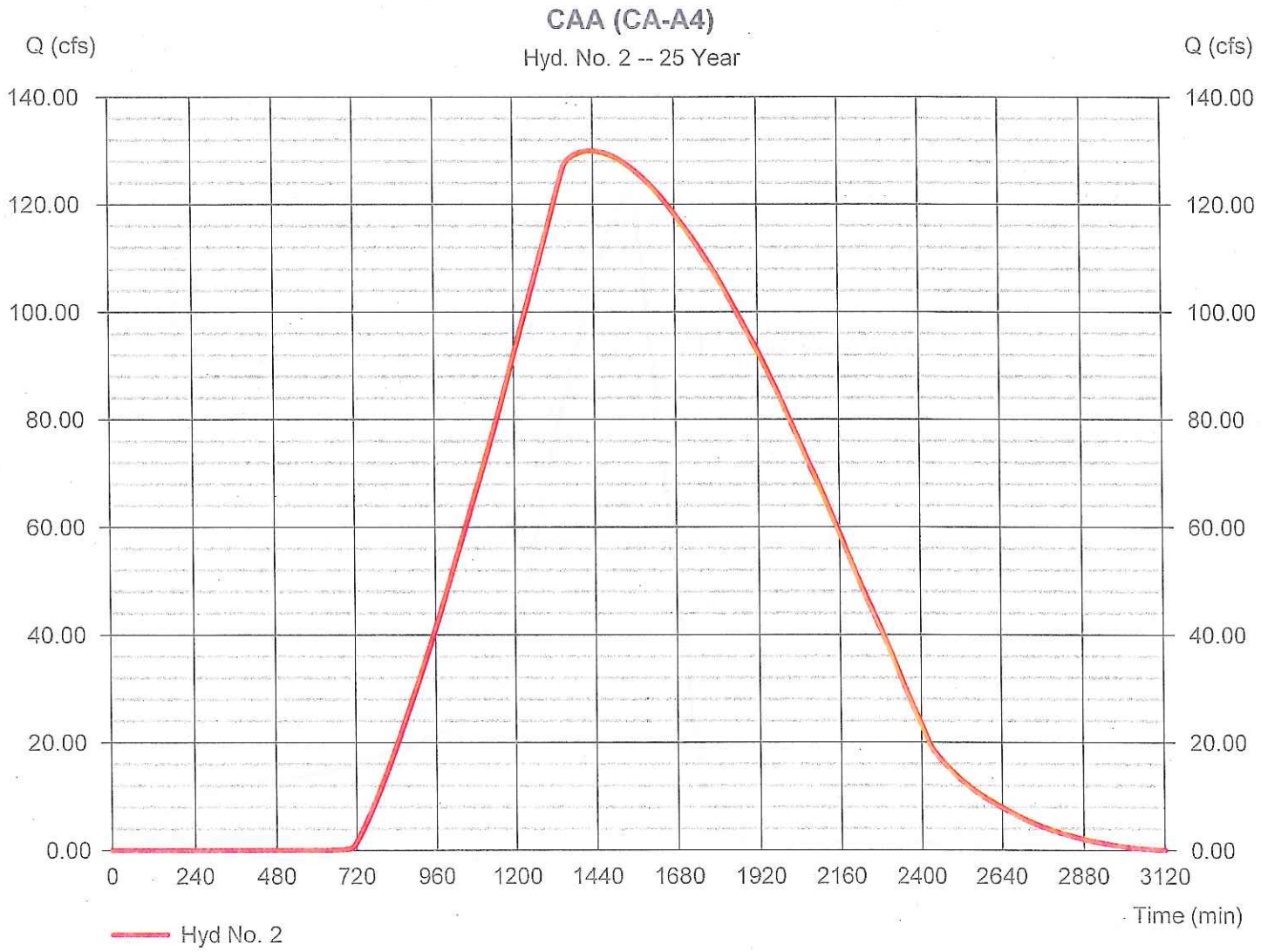
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 2

CAA (CA-A4)

Hydrograph type	= SCS Runoff	Peak discharge	= 129.87 cfs
Storm frequency	= 25 yrs	Time to peak	= 1434 min
Time interval	= 2 min	Hyd. volume	= 8,225,326 cuft
Drainage area	= 1551.000 ac	Curve number	= 76
Basin Slope	= 0.1 %	Hydraulic length	= 18000 ft
Tc method	= LAG	Time of conc. (Tc)	= 1093.57 min
Total precip.	= 3.63 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



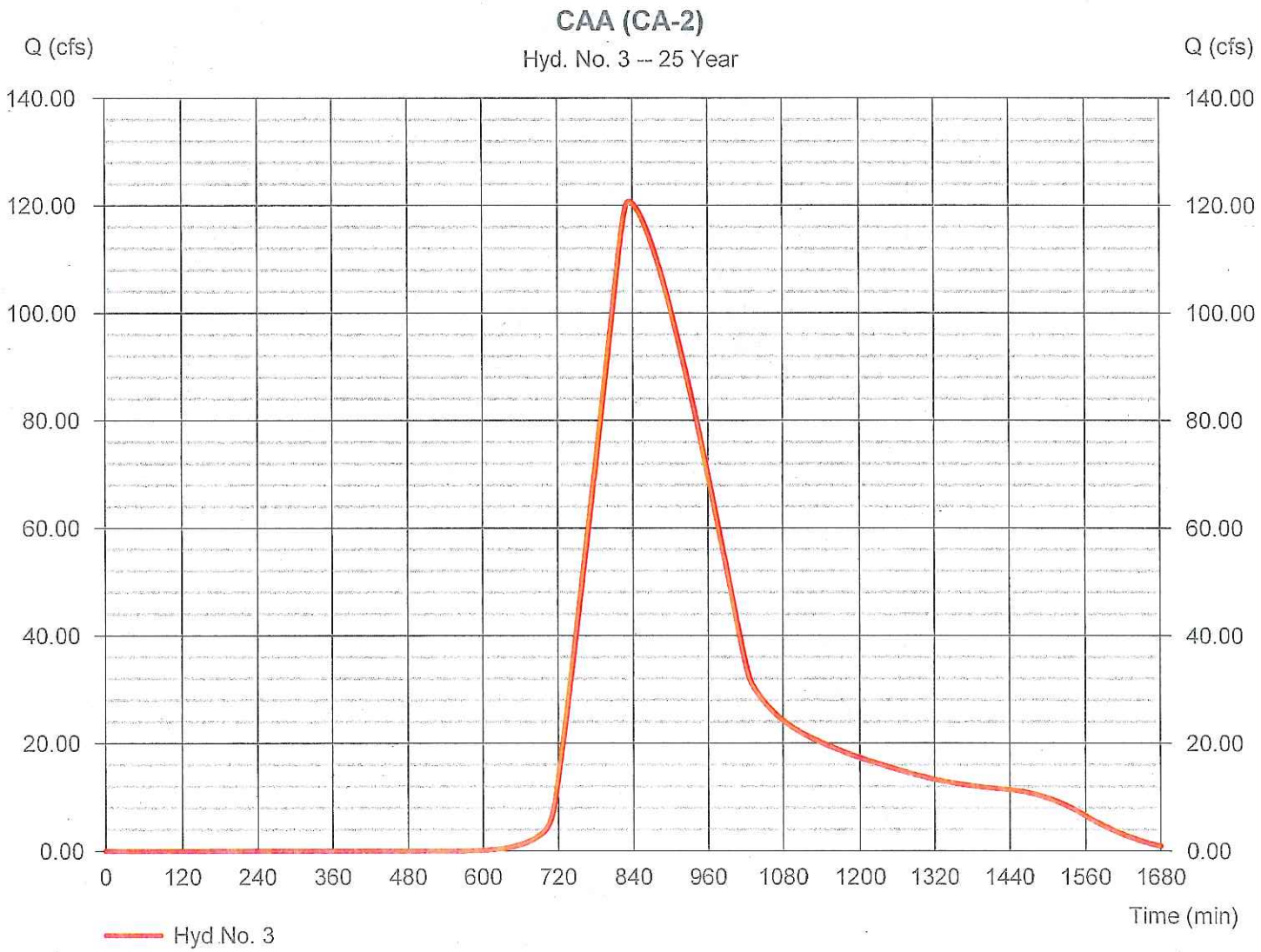
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 3

CAA (CA-2)

Hydrograph type	= SCS Runoff	Peak discharge	= 120.76 cfs
Storm frequency	= 25 yrs	Time to peak	= 834 min
Time interval	= 2 min	Hyd. volume	= 1,969,245 cuft
Drainage area	= 326.000 ac	Curve number	= 79
Basin Slope	= 0.5 %	Hydraulic length	= 6200 ft
Tc method	= LAG	Time of conc. (Tc)	= 199.91 min
Total precip.	= 3.63 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



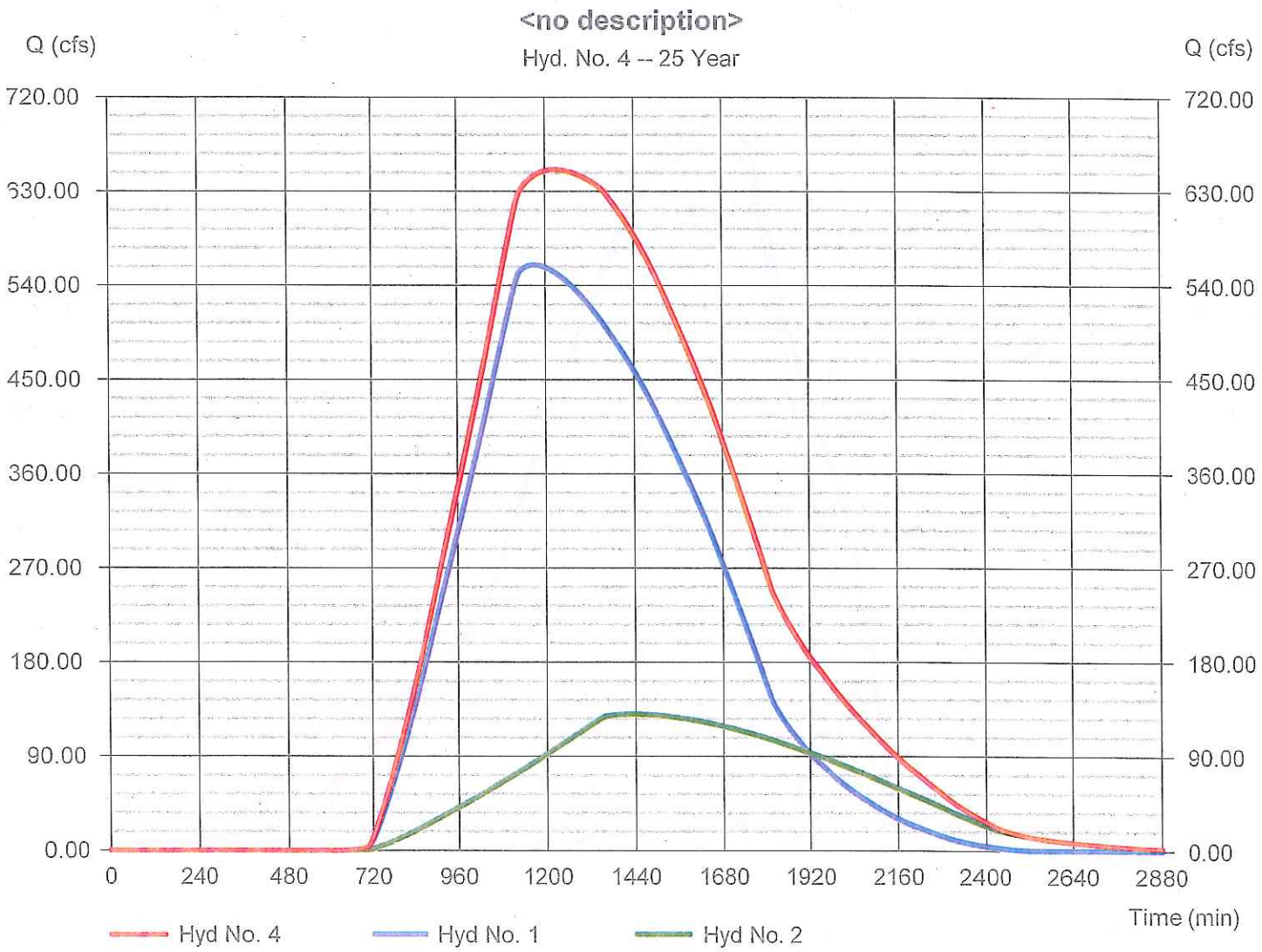
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 4

<no description>

Hydrograph type	= Combine	Peak discharge	= 650.48 cfs
Storm frequency	= 25 yrs	Time to peak	= 1228 min
Time interval	= 2 min	Hyd. volume	= 33,347,420 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 6290.000 ac



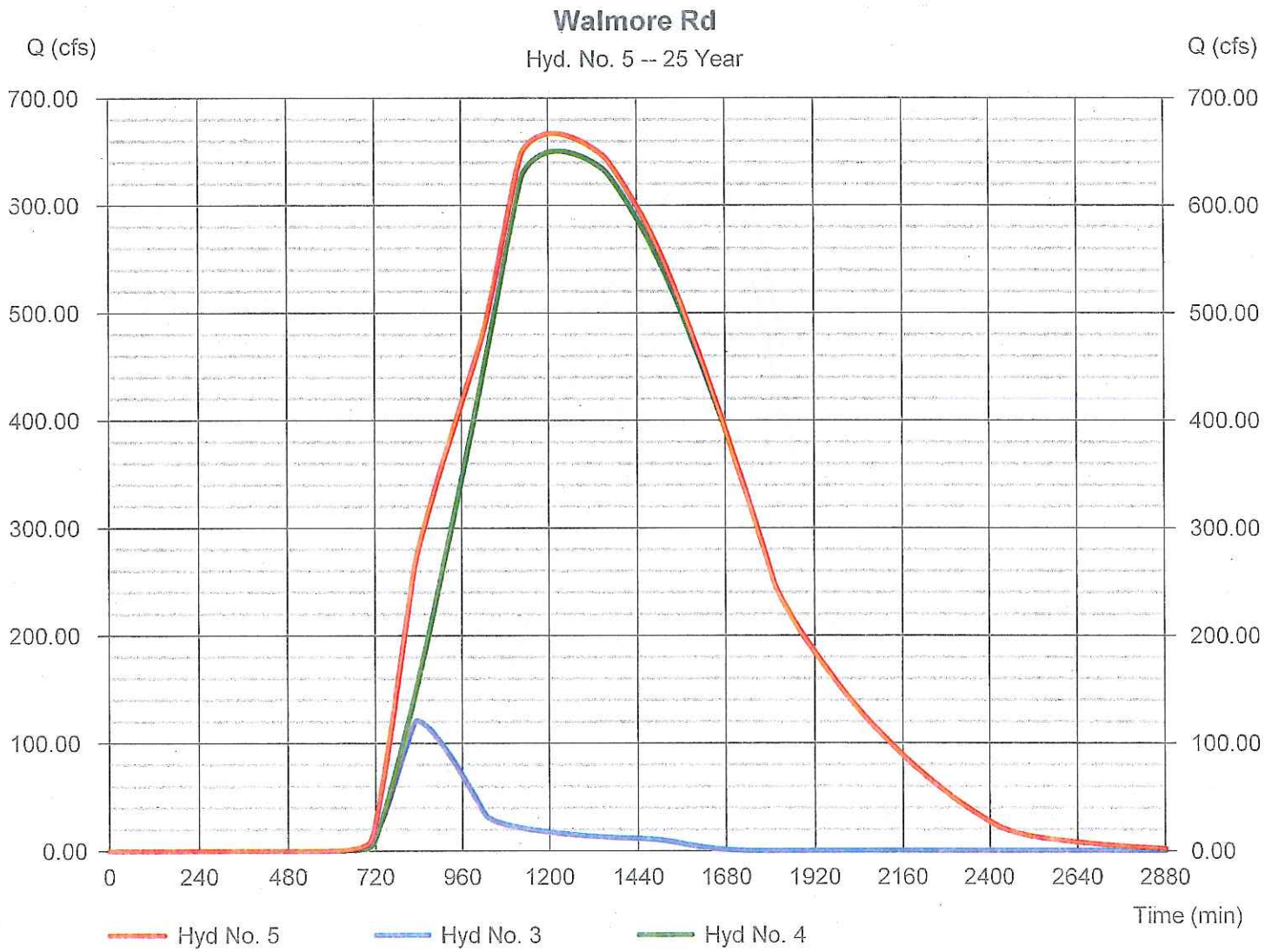
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 5

Walmore Rd

Hydrograph type	= Combine	Peak discharge	= 666.93 cfs
Storm frequency	= 25 yrs	Time to peak	= 1216 min
Time interval	= 2 min	Hyd. volume	= 35,316,672 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 326.000 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3

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	SCS Runoff	960.47	2	1154	42,203,940	------	------	------	CAA (CA-3)
2	SCS Runoff	220.84	2	1410	13,818,170	------	------	------	CAA (CA-A4)
3	SCS Runoff	201.78	2	834	3,206,964	------	------	------	CAA (CA-2)
4	Combine	1111.58	2	1202	56,022,060	1, 2,	------	------	<no description>
5	Combine	1137.50	2	1192	59,229,040	3, 4	------	------	Walmore Rd

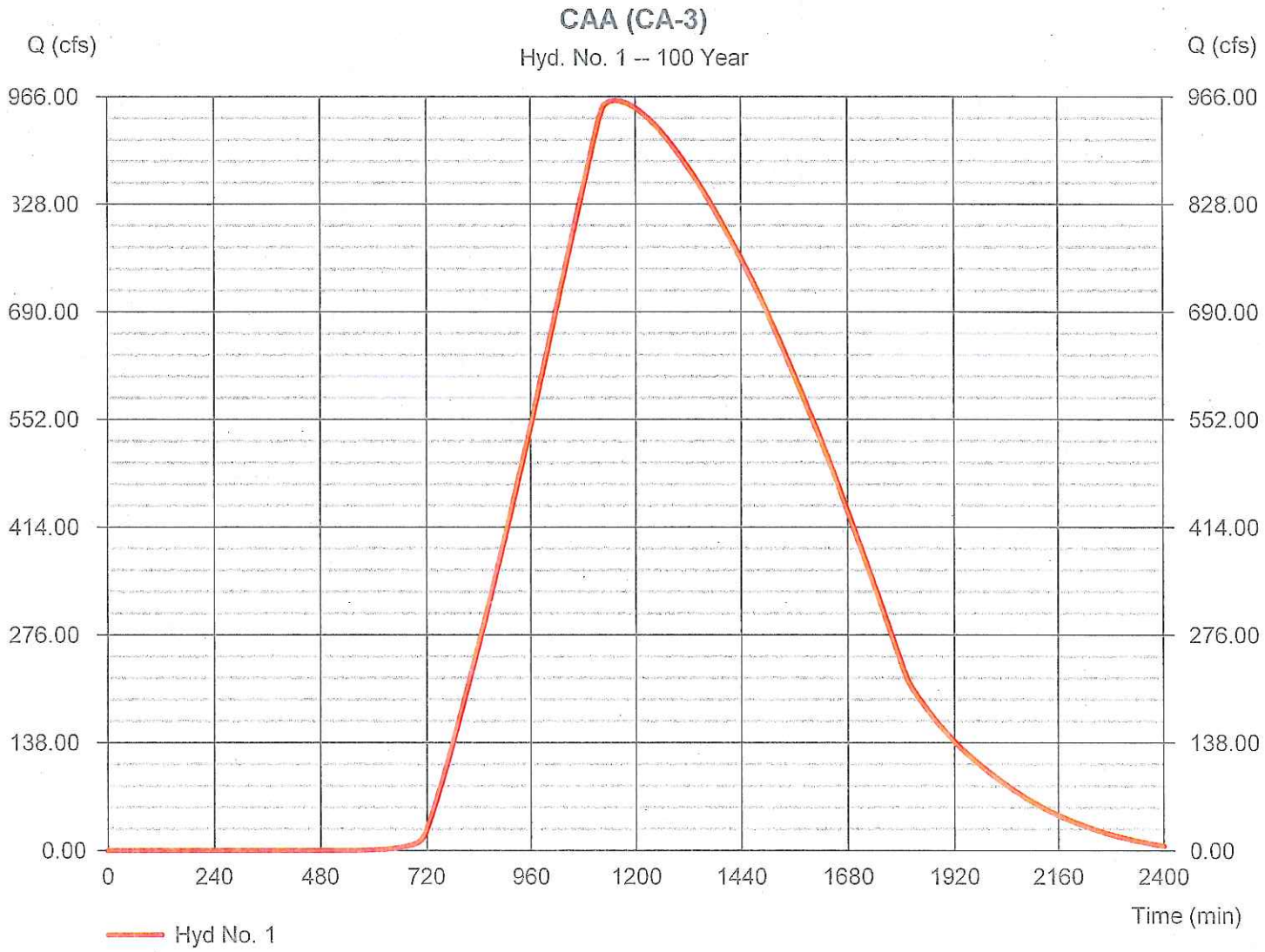
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 1

CAA (CA-3)

Hydrograph type	= SCS Runoff	Peak discharge	= 960.47 cfs
Storm frequency	= 100 yrs	Time to peak	= 1154 min
Time interval	= 2 min	Hyd. volume	= 42,203,940 cuft
Drainage area	= 4739.000 ac	Curve number	= 76
Basin Slope	= 0.2 %	Hydraulic length	= 15000 ft
Tc method	= LAG	Time of conc. (Tc)	= 700.94 min
Total precip.	= 4.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



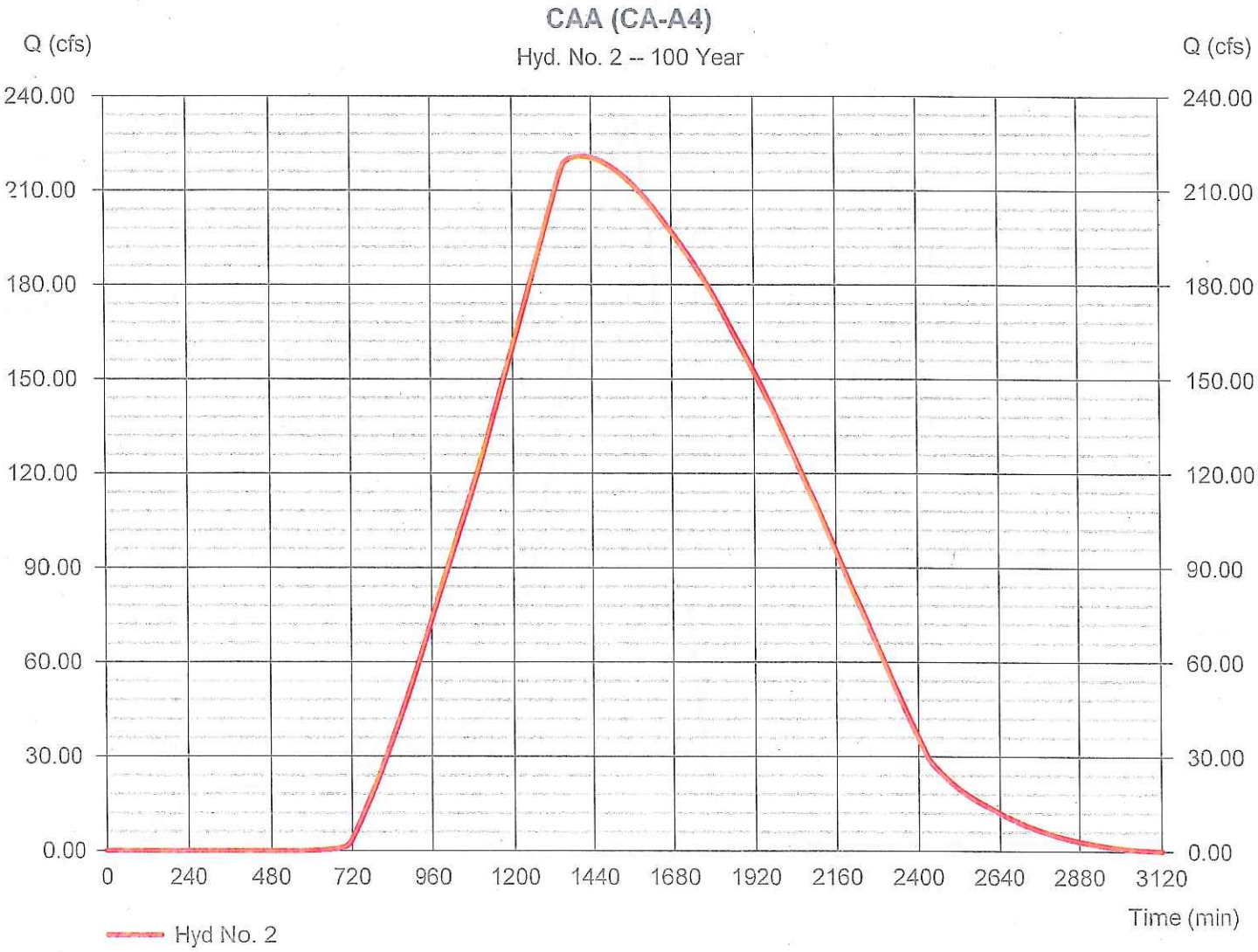
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 2

CAA (CA-A4)

Hydrograph type	= SCS Runoff	Peak discharge	= 220.84 cfs
Storm frequency	= 100 yrs	Time to peak	= 1410 min
Time interval	= 2 min	Hyd. volume	= 13,818,170 cuft
Drainage area	= 1551.000 ac	Curve number	= 76
Basin Slope	= 0.1 %	Hydraulic length	= 18000 ft
Tc method	= LAG	Time of conc. (Tc)	= 1093.57 min
Total precip.	= 4.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



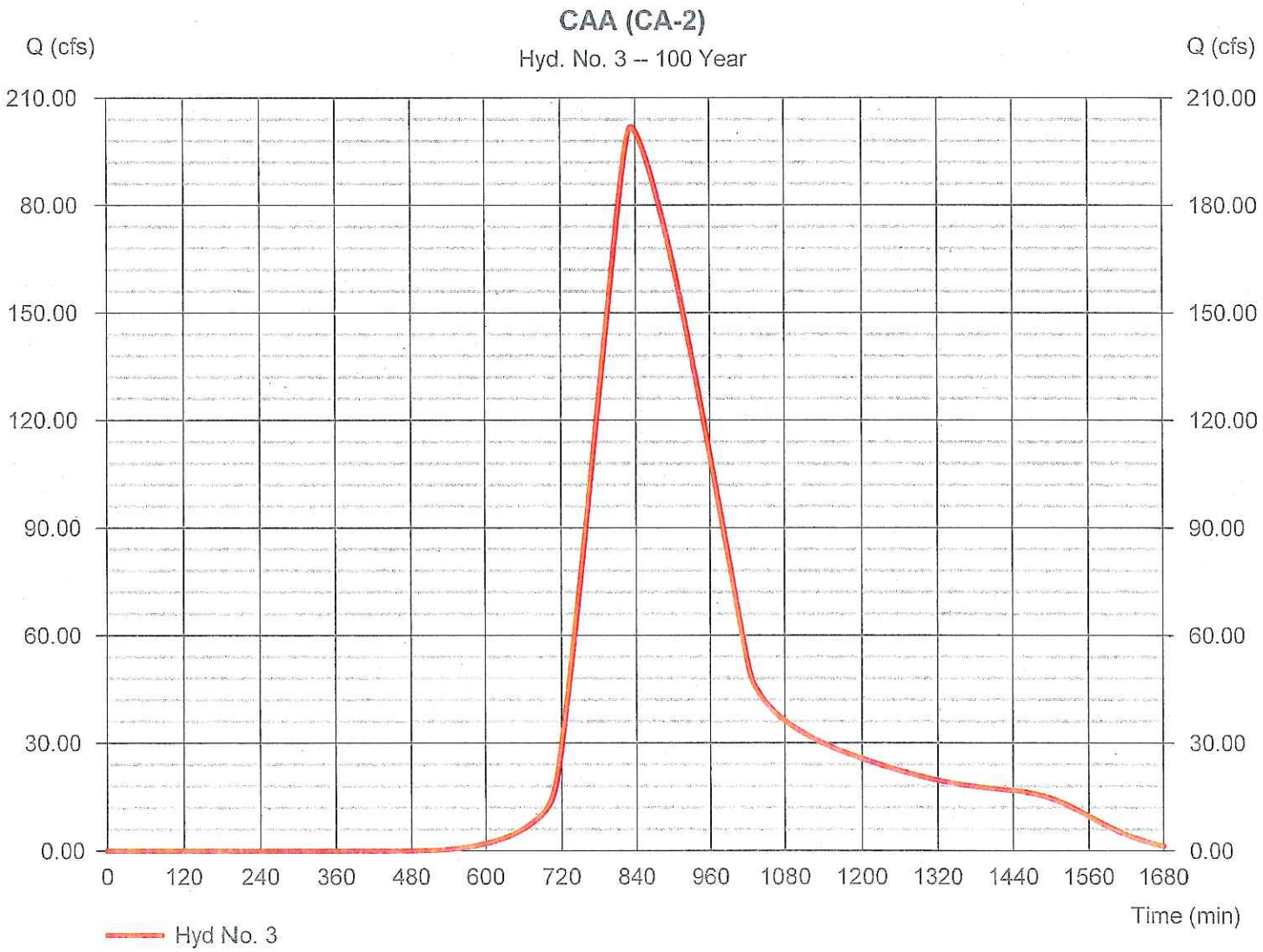
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 3

CAA (CA-2)

Hydrograph type	= SCS Runoff	Peak discharge	= 201.78 cfs
Storm frequency	= 100 yrs	Time to peak	= 834 min
Time interval	= 2 min	Hyd. volume	= 3,206,964 cuft
Drainage area	= 326.000 ac	Curve number	= 79
Basin Slope	= 0.5 %	Hydraulic length	= 6200 ft
Tc method	= LAG	Time of conc. (Tc)	= 199.91 min
Total precip.	= 4.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



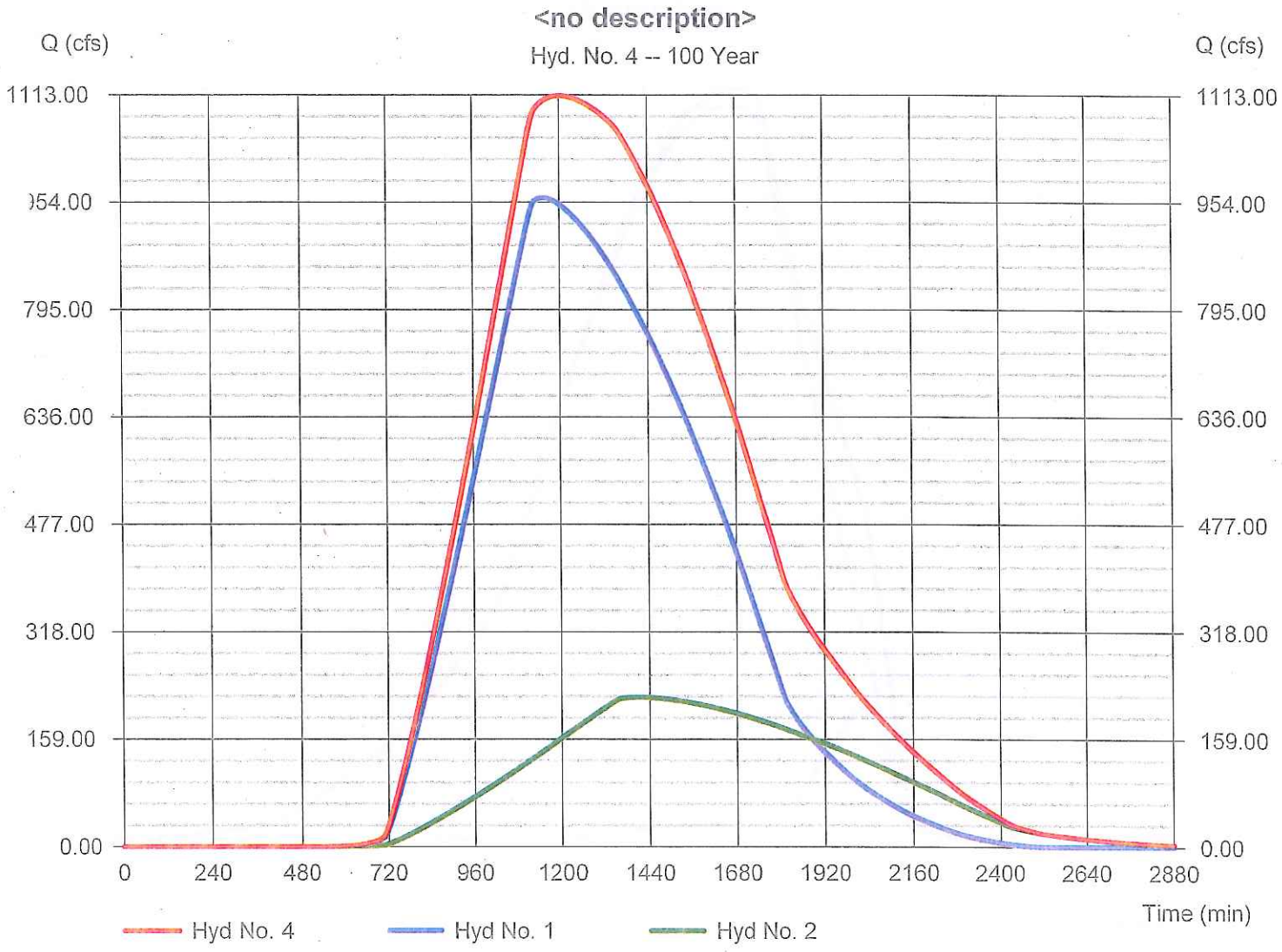
Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 4

<no description>

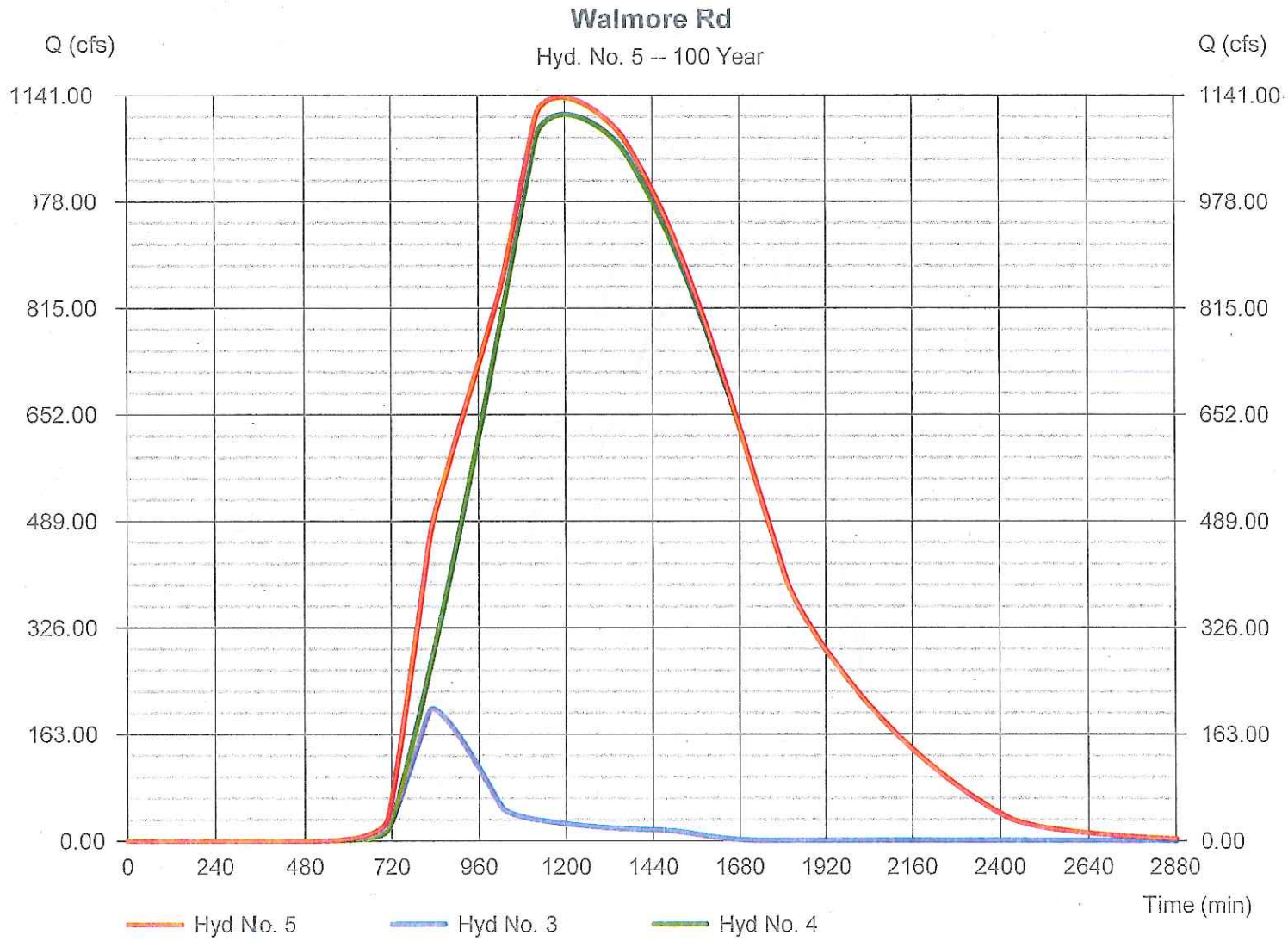
Hydrograph type	= Combine	Peak discharge	= 1111.58 cfs
Storm frequency	= 100 yrs	Time to peak	= 1202 min
Time interval	= 2 min	Hyd. volume	= 56,022,060 cuft
Inflow hyds.	= 1, 2	Contrib. drain. area	= 6290.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2014 by Autodesk, Inc. v10.3 Thursday, 01 / 28 / 2016

Hyd. No. 5

Walmore Rd

Hydrograph type	= Combine	Peak discharge	= 1137.50 cfs
Storm frequency	= 100 yrs	Time to peak	= 1192 min
Time interval	= 2 min	Hyd. volume	= 59,229,040 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 326.000 ac