DRAINAGE REPORT

FOR

SITE DEVELOPMENT PLAN

Valley View Mini Storage LLC

JONESBORO, ARKANSAS

September 13, 2016



Prepared by: Clarence W. "Mac" McAlister PE, PS McAlister Engineering Jason Marshall is seeking to develop mini storage facilities at 5925 Southwest Dr., Jonesboro, AR 72404. The total area of this addition is 3.63 acres. This development will replace an open field of row crop.

This property lies within the Black Fork Ditch drainage basin. The drainage analysis method used for this analysis is the Soil Conservation Service Technical Release 55, "Urban Hydrology for Small Watersheds". The rainfall distribution is type II. Rainfall data is taken from Appendix B of TR55, and the rainfall intensities are as shown in the tables below. The area of the development is 3.63 acres

There is currently a roadside ditch running across the front of the lot which collects water from Southwest Dr. and surrounding areas. At the 100 year rain event, 197.52 cfs of water enters this ditch on the south side of the property. The new development of the mini storages will cause an increase of 16.21 cfs. Mr. Marshall will mitigate this flow by routing the water as it leaves the site in a circuitous manner through a heavily riprapped 275 foot channel designed to reduce the flow back to pre-existing conditions.

The technical data is attached.

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Wednesday, 09 / 14 / 2016

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

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		Inflow	Peak Outflow (cfs)								Hydrograph	
0.	type (origin)	hyd(s)	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	Description	
1	SCS Runoff			13.53		17.91	21.37	24.91	27.84	31.07	before	
2	SCS Runoff			17.80		22.39	26.00	29.69	32.76	36.15	after	
3	SCS Runoff			80.00		108.99	132.09	155.86	175.62	197.52	everything pre	
4	SCS Runoff		1	77.25		104.39	125.96	148.12	166.52	186.90	everything post	
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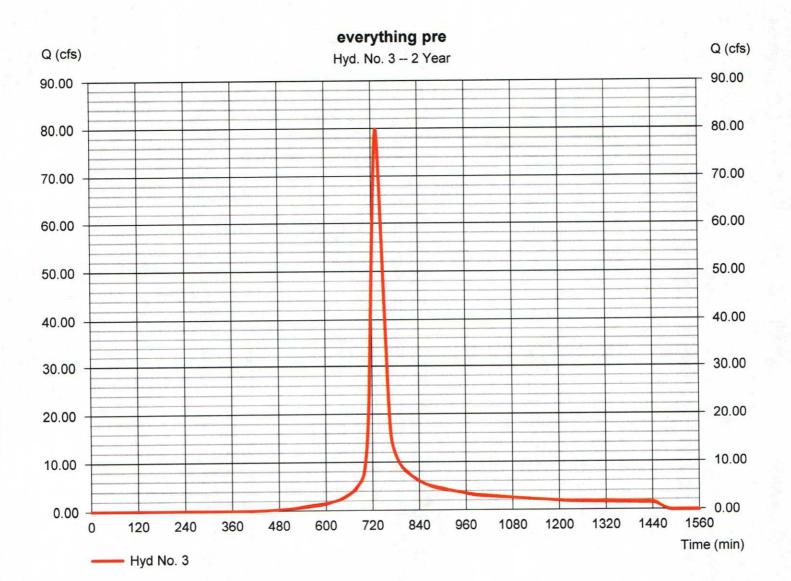
lyd. Io.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	13.53	2	720	35,571			1. n \$2	before
2	SCS Runoff	17.80	2	718	45,081				after
3	SCS Runoff	80.00	2	732	345,610				everything pre
4	SCS Runoff	77.25	2	734	349,958			b *	everything post
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 80.00 cfs	
Storm frequency	= 2 yrs	Time to peak	= 732 min	
Time interval	= 2 min	Hyd. volume	= 345,610 cuft	
Drainage area	= 40.000 ac	Curve number	= 85	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min	
Total precip.	= 3.88 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	



TR55 Tc Worksheet

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Hyd. No. 3

everything pre

Description		Δ	B		<u>C</u>		<u>Totals</u>
Sheet Flow Manning's n-value Flow length (ft) Two-year 24-hr precip. (in) Land slope (%) Travel Time (min)	= =	0.400 100.0 3.88 9.00 10.69 +	0.011 0.0 0.00 0.00 0.00	+	0.011 0.0 0.00 0.00 0.00	_	10.69
Shallow Concentrated Flow Flow length (ft) Watercourse slope (%) Surface description Average velocity (ft/s)	= = =	305.00 11.00 Unpaved 5.35	800.00 0.62 Unpaved 1.27	d	534.00 0.75 Unpave 1.40	d	
Travel Time (min)	=	0.95 +	10.50	+	6.37	=	17.81
Channel Flow X sectional flow area (sqft) Wetted perimeter (ft) Channel slope (%) Manning's n-value Velocity (ft/s)	=	27.00 18.97 1.00 0.030 6.29	0.00 0.00 0.00 0.015 0.00		0.00 0.00 0.00 0.015 0.00		
Flow length (ft)	({	0})1142.0	0.0		0.0		
Travel Time (min)	=	3.03 +	0.00	+	0.00	=	3.03
Total Travel Time, Tc							31.50 min

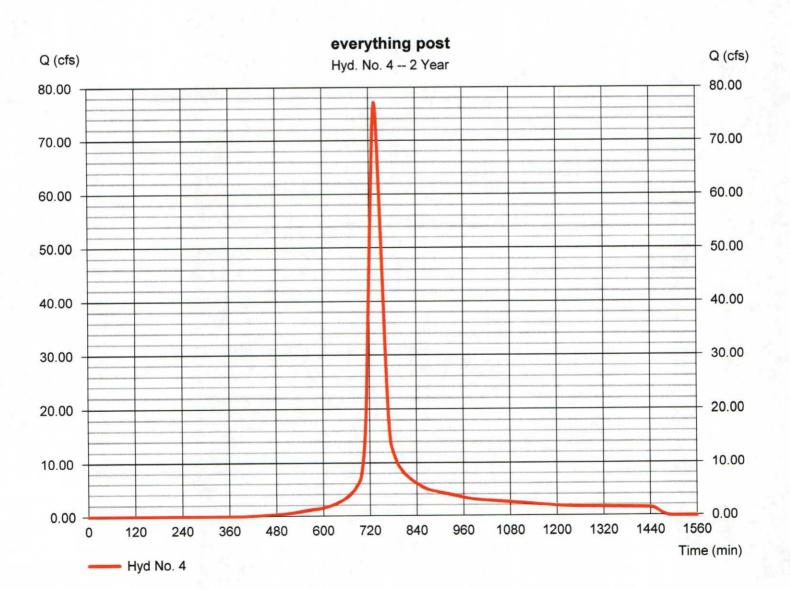
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Hyd. No. 4

everything post

discharge =	77.25 cfs
to peak =	734 min
volume =	349,958 cuft
e number =	86*
aulic length =	0 ft
e of conc. (Tc) =	33.80 min
ibution =	Type II
be factor =	484
	to peak = volume = e number = aulic length = of conc. (Tc) = ibution =

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



TR55 Tc Worksheet

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Hyd. No. 4

everything post

Description	A		B		<u>C</u>		Totals
Sheet Flow Manning's n-value Flow length (ft) Two-year 24-hr precip. (in) Land slope (%)	= 0.400 = 100.0 = 3.88 = 9.00		0.011 0.0 0.00 0.00		0.011 0.0 0.00 0.00		
Travel Time (min)	= 10.69	+	0.00	+	0.00	=	10.69
Shallow Concentrated Flow Flow length (ft) Watercourse slope (%) Surface description Average velocity (ft/s)	= 305.00 = 11.00 = Unpave =5.35		800.00 0.62 Unpave 1.27	ed	534.00 0.75 Paved 1.76		
Travel Time (min)	= 0.95	+	10.50	+	5.06	=	16.50
Channel Flow X sectional flow area (sqft) Wetted perimeter (ft) Channel slope (%) Manning's n-value Velocity (ft/s)	= 27.00 = 18.97 = 1.00 = 0.030 =6.29		3.00 6.32 0.50 0.050 1.28		0.00 0.00 0.00 0.015 0.00		
Flow length (ft)	({0})1142	.0	275.0		0.0		
Travel Time (min)	= 3.03	+	3.58	+	0.00	=	6.61
Total Travel Time, Tc							33.80 min

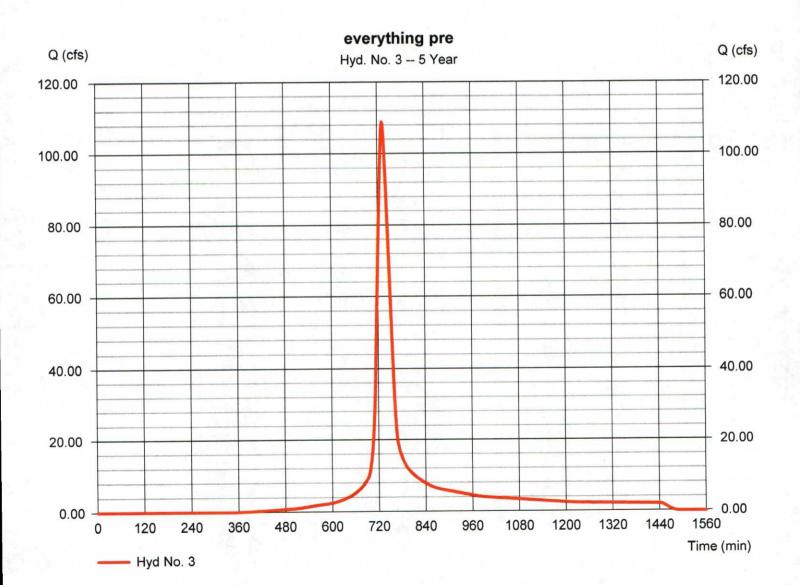
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograg Descriptic	oh on
1	SCS Runoff	17.91	2	720	47,665				before	
2	SCS Runoff	22.39	2	718	57,499				after	
3	SCS Runoff	108.99	2	732	472,106				everything pre	
4	SCS Runoff	104.39	2	734	474,958				everything post	
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 108.99 cfs
Storm frequency	= 5 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 472,106 cuft
Drainage area	= 40.000 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min
Total precip.	= 4.83 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



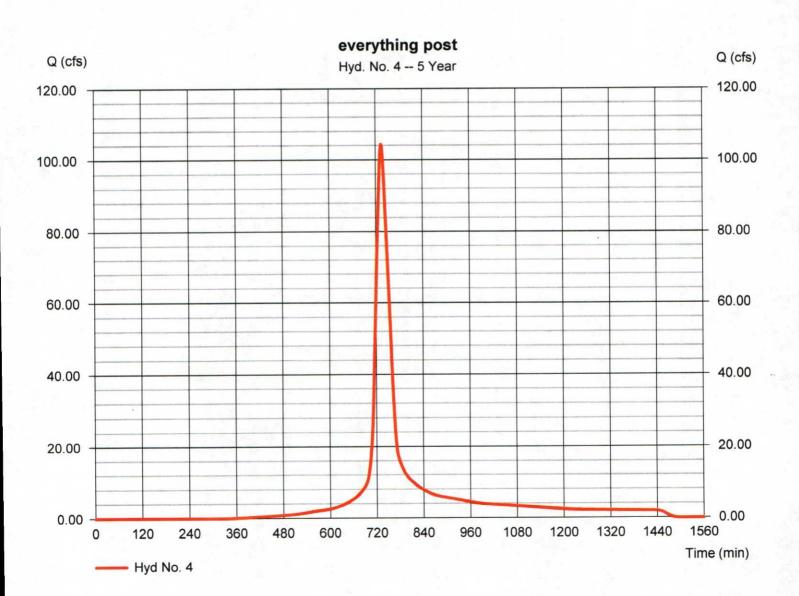
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Hyd. No. 4

everything post

Hydrograph type	= SCS Runoff	Peak discharge	= 104.39 cfs
Storm frequency	= 5 yrs	Time to peak	= 734 min
Time interval	= 2 min	Hyd. volume	= 474,958 cuft
Drainage area	= 40.000 ac	Curve number	= 86*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 33.80 min
Total precip.	= 4.83 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



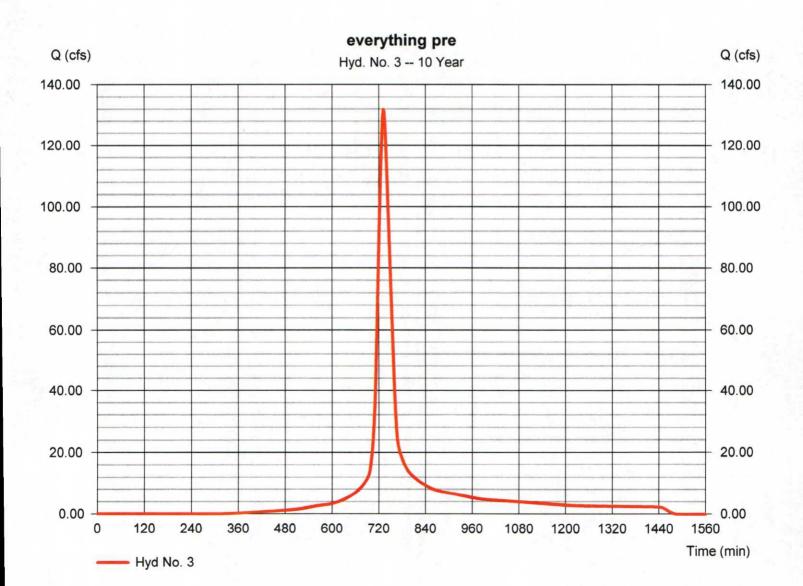
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	21.37	2	720	57,377				before
2	SCS Runoff	26.00	2	718	67,325				after
3	SCS Runoff	132.09	2	732	574,499				everything pre
4	SCS Runoff	125.96	2	734	575,861				everything post
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 132.09 cfs	
Storm frequency	= 10 yrs	Time to peak	= 732 min	
Time interval	= 2 min	Hyd. volume	= 574,499 cuft	
Drainage area	= 40.000 ac	Curve number	= 85	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min	
Total precip.	= 5.58 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	



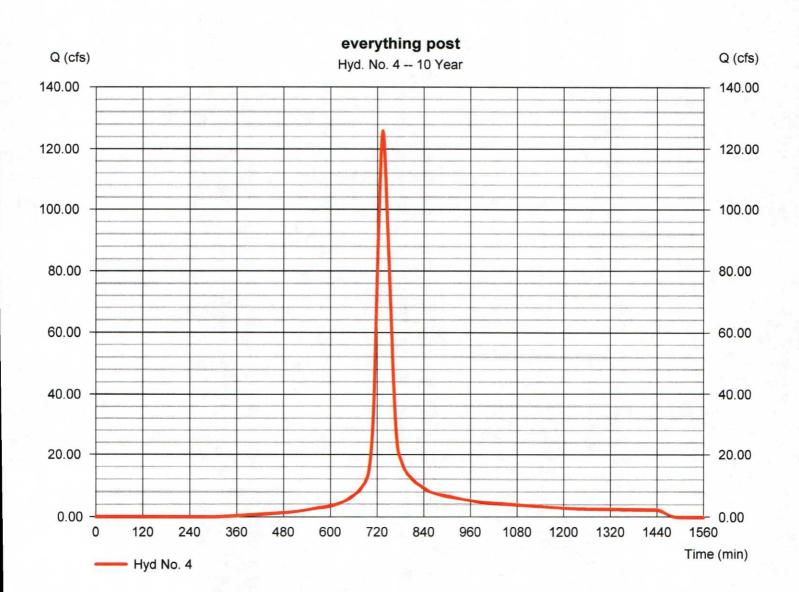
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Hyd. No. 4

everything post

Hydrograph type	= SCS Runoff	Peak discharge	= 125.96 cfs	
Storm frequency	= 10 yrs	Time to peak	= 734 min	
Time interval	= 2 min	Hyd. volume	= 575,861 cuft	
Drainage area	= 40.000 ac	Curve number	= 86*	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 33.80 min	
Total precip.	= 5.58 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



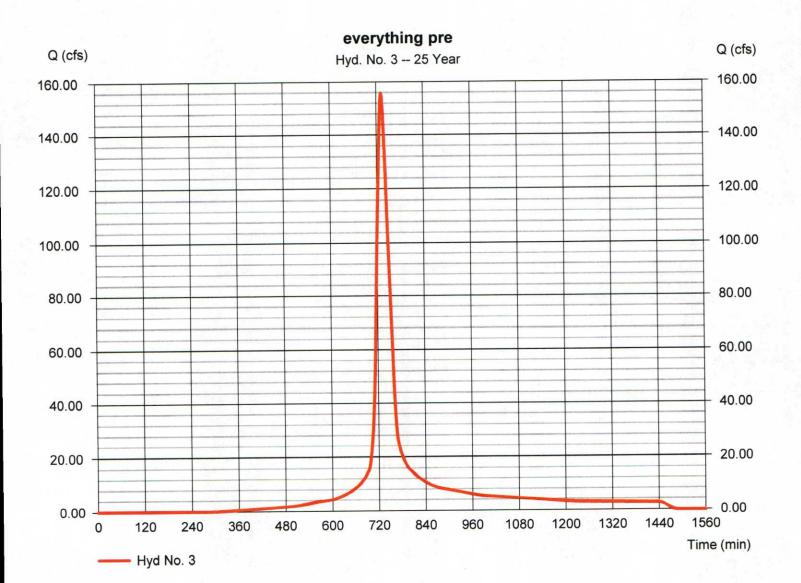
lyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description	
1	SCS Runoff	24.91	2	720	67,448				before	
2	SCS Runoff	29.69	2	718	77,427				after	
3	SCS Runoff	155.86	2	732	681,205				everything pre	
4	SCS Runoff	148.12	2	734	680,832	10. .			everything post	
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 155.86 cfs
Storm frequency	= 25 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 681,205 cuft
Drainage area	= 40.000 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min
Total precip.	= 6.35 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



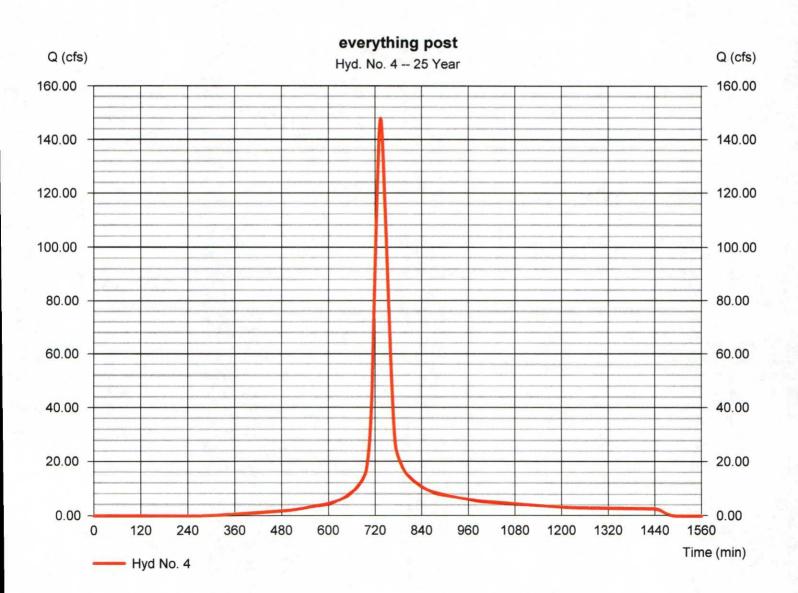
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Hyd. No. 4

everything post

Hydrograph type	= SCS Runoff	Peak discharge	= 148.12 cfs	
Storm frequency	= 25 yrs	Time to peak	= 734 min	
Time interval	= 2 min	Hyd. volume	= 680,832 cuft	
Drainage area	= 40.000 ac	Curve number	= 86*	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 33.80 min	
Total precip.	= 6.35 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



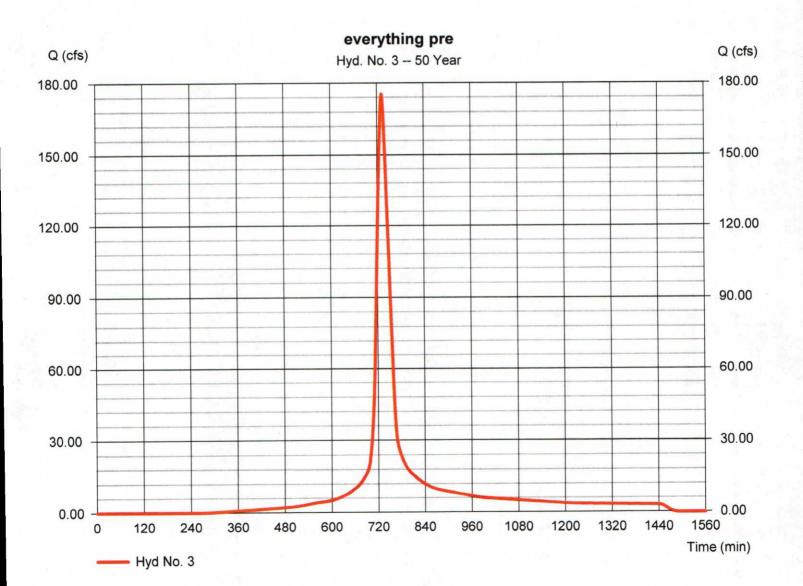
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	27.84	2	720	75,876				before
2	SCS Runoff	32.76	2	718	85,830				after
3	SCS Runoff	175.62	2	732	770,801				everything pre
4	SCS Runoff	166.52	2	734	768,867				everything post
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 175.62 cfs	
Storm frequency	= 50 yrs	Time to peak	= 732 min	
Time interval	= 2 min	Hyd. volume	= 770,801 cuft	
Drainage area	= 40.000 ac	Curve number	= 85	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min	
Total precip.	= 6.99 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	



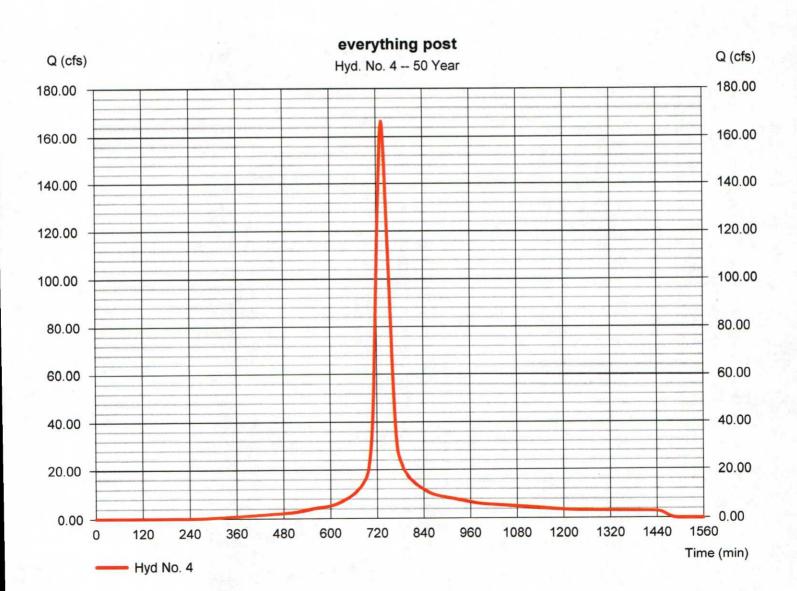
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Hyd. No. 4

everything post

= SCS Runoff	Peak discharge	= 166.52 cfs	
= 50 yrs	Time to peak	= 734 min	
= 2 min	Hyd. volume	= 768,867 cuft	
= 40.000 ac	Curve number	= 86*	
= 0.0 %	Hydraulic length	= 0 ft	
= TR55	Time of conc. (Tc)	= 33.80 min	
= 6.99 in	Distribution	= Type II	
= 24 hrs	Shape factor	= 484	
	= 50 yrs = 2 min = 40.000 ac = 0.0 % = TR55 = 6.99 in	= 50 yrsTime to peak= 2 minHyd. volume= 40.000 acCurve number= 0.0 %Hydraulic length= TR55Time of conc. (Tc)= 6.99 inDistribution	= 50 yrsTime to peak= 734 min= 2 minHyd. volume= 768,867 cuft= 40.000 acCurve number= 86^* = 0.0 %Hydraulic length= 0 ft= TR55Time of conc. (Tc)= 33.80 min= 6.99 inDistribution= Type II

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



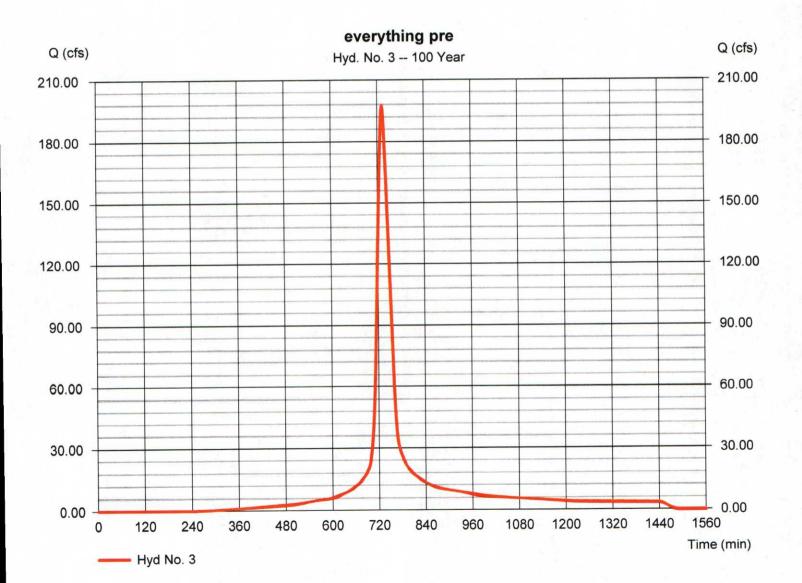
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	31.07	2	720	85,271				before
2	SCS Runoff	36.15	2	718	95,159				after
3	SCS Runoff	197.52	2	732	870,936	<u>, 1</u>			everything pre
4	SCS Runoff	186.90	2	734	867,169				everything post
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Hyd. No. 3

everything pre

Hydrograph type	= SCS Runoff	Peak discharge	= 197.52 cfs	
Storm frequency	= 100 yrs	Time to peak	= 732 min	
Time interval	= 2 min	Hyd. volume	= 870,936 cuft	
Drainage area	= 40.000 ac	Curve number	= 85	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 31.50 min	
Total precip.	= 7.70 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	



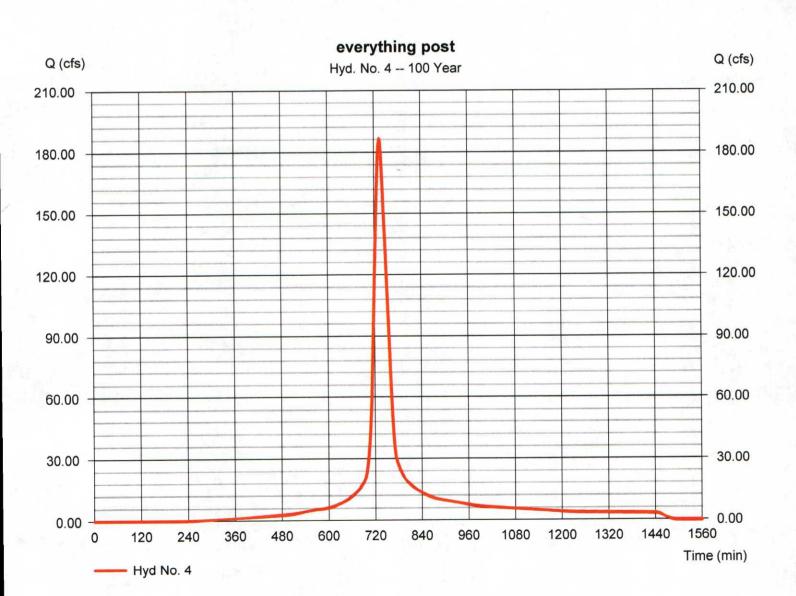
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Hyd. No. 4

everything post

Hydrograph type	= SCS Runoff	Peak discharge	= 186.90 cfs	
Storm frequency	= 100 yrs	Time to peak	= 734 min	
Time interval	= 2 min	Hyd. volume	= 867,169 cuft	
Drainage area	= 40.000 ac	Curve number	= 86*	
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft	
Tc method	= TR55	Time of conc. (Tc)	= 33.80 min	
Total precip.	= 7.70 in	Distribution	= Type II	
Storm duration	= 24 hrs	Shape factor	= 484	

* Composite (Area/CN) = [(36.370 x 85) + (3.630 x 96)] / 40.000



Hydraflow Rainfall Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2016 by Autodesk, Inc. v10.5

Return Period	Intensity-Du	uration-Frequency	Equation Coefficier	nts (FHA)
(Yrs)	В	D	E	(N/A)
1	0.0000	0.0000	0.0000	
2	35.8756	5.7000	0.7150	
3	0.0000	0.0000	0.0000	
5	46.2956	8.3000	0.7183	
10	55.8885	10.1000	0.7281	
25	72.1200	12.4000	0.7449	
50	86.4157	14.0000	0.7579	
100	102.9378	15.6000	0.7720	

File name: Craighead County.idf

Intensity = B / (Tc + D)^E

Return Period (Yrs)	10 C				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	6.59	5.01	4.11	3.52	3.10	2.78	2.53	2.33	2.17	2.03	1.90	1.80
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	7.22	5.74	4.82	4.20	3.73	3.38	3.09	2.86	2.66	2.50	2.35	2.23
10	7.74	6.29	5.35	4.69	4. <mark>1</mark> 9	<mark>3.8</mark> 0	3.4 <mark>9</mark>	3.23	3.02	2.83	2.67	2.53
25	8.59	7.12	6.12	5.40	4.86	4.42	4.07	3.78	3.53	3.32	3.13	2.97
50	9.28	7.77	6.73	5.97	5.38	<mark>4.9</mark> 1	4.52	4.20	3. <mark>9</mark> 3	3.70	3.49	3.31
100	9.96	8.42	7.34	6.53	5.90	5.39	4.98	4.63	4.33	4.07	3.85	3.65

Tc = time in minutes. Values may exceed 60.

	Precip	1990			arostudy.		craignead	County.p
Storm Distribution	1-yr	2-yr	3-yr	5-yr	ation Ta	25-yr	50-yr	100-yr
SCS 24-hour	0.00	3.88	0.00	4.83	5.58	6.35	6.99	7.70
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Precip. file name: \\server\Storage\HydroStudy\Hydraflow\Craighead County.pcp