

BOLTON PLANNING & ZONING COMMISSION  
REGULAR MEETING AGENDA  
7:30 PM, WEDNESDAY, SEPTEMBER 9, 2015  
BOLTON TOWN HALL, 222 BOLTON CENTER ROAD

1. Call To Order
2. *DISCUSSION/POSSIBLE DECISION*: 8-24 Referrals:
  - a. Bolton Heritage Farm Barn
  - b. Town Center Municipal Facilities Shared Septic System
3. PUBLIC HEARINGS (begin at 7:45pm)
  - a. *CONTINUATION: ReSUBDIVISION APPLICATION*: 1-Lot, 61 French Road, William Anderson/Nancy Varca
4. Approval of Minutes:

August 6, 2015 Special Meeting Minutes                      August 12, 2015 Regular Meeting Minutes
5. Residents' Forum (Public Comment for items *NOT* on the agenda)
6. Old Business
  - a. *DISCUSSION/POSSIBLE DECISION*: ReSubdivision Application, 1-Lot, 61 French Road, William Anderson/Nancy Varca
  - b. Other
7. New Business
  - a. *Informal Discussion*: Section 6A.14g. Separation Distance Regarding Separation Distances for Multiple Dwelling Complexes, Attorney Stephen Penny
  - b. Other
8. Plan Of Conservation & Development Discussion
9. Correspondence
10. Adjournment

RECEIVED

SEP 04 2015

Town Clerk of Bolton



# Town of Bolton

222 BOLTON CENTER ROAD • BOLTON, CT 06043

BOARD OF SELECTMEN  
(860) 649-8066  
FAX (860) 643-0021

September 2, 2015

Eric Luntta, Chair  
Planning and Zoning Commission  
222 Bolton Center Road  
Bolton, CT 06043

RE: 8-24 Referrals

Dear Eric:

At our September 1, 2015 meeting, the Board of Selectmen approved resolutions requesting funding of different capital projects. Two (2) of these projects involve municipal improvements. The first is at the Town Center municipal facilities (Town Hall, Resident State Troopers, Bentley Memorial Library and Bolton Heritage Farm), for the construction of a shared septic system, including related work and improvements. The second item is at the Bolton Heritage Farm barn for replacements, repairs and improvements. As municipal improvements, we are referring the Town Center municipal shared septic system and Bolton Heritage Farm barn projects to the Planning and Zoning Commission as required under C.G.S. 8-24. Bond Counsel is developing a resolution for your board's consideration. It will be sent to you as soon as we receive it.

I will attend your meeting to answer any questions. Please do not hesitate to contact either Administrative Officer Joyce Stille or myself if you require additional information or have any questions.

Sincerely,

Robert R. Morra  
First Selectman

Cc: Patrice Carson, Director of Community Development  
Jim Rupert, Building Official/Zoning Enforcement Officer

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SEP - 3 2015

TOWN OF BOLTON  
LAND USE DEPT.

STORMWATER MANAGEMENT REPORT  
FOR THE RESUBDIVISION OF  
61 FRENCH RD. BOLTON, CT.

PREPARED FOR WILLIAM ANDERSON

AUGUST 28, 2015

PREPARED BY:

BUSHNELL ASSOCIATES LLC.

563 WOODBRIDGE ST.

MANCHESTER, CT. 06040

860-643-7875

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TOWN OF BOLTON  
LAND USE DEPT.

This proposed 2 Lot Resubdivision consists of the 1.98 acre parcel located at 61 French Rd. and the 5.29 acre parcel to the rear of 61 French Rd. The existing parcel located at 61 French Rd. is presently developed as a single family residential house lot. The 5.29 acre parcel is presently an undeveloped wooded parcel. Both parcels consist primarily of Charlton-Chatfield complex soils with a B Hydrologic Soil Group rating. The proposed Resubdivision proposes the creation of a 2.79 acre lot(Lot 1) and a 2.50 acre lot (Lot 2) not including their associated access way areas. A 0.51 acre area of the parcel located at 61 French Rd. is proposed to be transferred to Lot 1 to create a driveway access way to Lots 1&2.

The overall area of the subdivision contains a wetland crossing the parcels from north to south effectively separating the area into 2 separate water shed areas. The westerly watershed consists of the area of proposed house site development on lots 1 and 2. The easterly watershed consists of the proposed access way area for Lots 1 and 2 from French Rd. Rain Gardens and Roof Gutter Infiltrators are proposed as storm water management measures for the 1<sup>st</sup> inch of stormwater in the westerly watershed. A detention pond with an outlet structure to a proposed drainage system exiting at an existing cross culvert along French Rd. is proposed for storm water management in easterly watershed.

Refer to plans entitled Resubdivision Plan Prepared For William Anderson 61 French Rd. Bolton, CT. Prepared by Bushnell Associates LLC dated 3/18/2015 revised to 8/21/2015 and the enclosed watershed area map for additional information and details associated with the following stormwater management calculations.

## RAIN GARDEN SIZING DESIGN CALCULATIONS:

Rain Gardens were designed based on design criteria contained in the New York Stormwater Management Design Manual

### Rain Gardens Design Criteria:

Rain Gardens shall contain a 6" deep drainage soils layer consisting of clean washed gravel w/ approximately 1.5-2.0" rock with a porosity of > 40% =Volume Drainage Layer (VDL)

Rain Gardens shall contain a 12" deep soil media soils layer 50-70% sand (less than 5% clay content), 50%-30% topsoil with an average of 5% organic material with a porosity >20%=Volume Soil Media (VSM)

Total Rain Gardens storage volume must exceed the Water Quality Volume (WQv) of the drainage area

### Rain Garden 1:

Total Drainage Area: 51,842 FT<sup>2</sup>.

Impervious Area 7.4% (Driveway area only, house roofs drain to infiltrator units)

WQv = 466 FT<sup>3</sup>.

VSM= 144 FT<sup>3</sup>.

VDL=144 FT<sup>3</sup>.

Rain Garden Volume (RGV)= 360 FT<sup>3</sup>.

Total Rain Garden Volume= VSM+VDL+RGV= 144+144+360 FT<sup>3</sup>. =648 FT<sup>3</sup>. >466 FT<sup>3</sup> WQv

Rain Garden 2:

Total Drainage Area: 21,060 FT<sup>2</sup>.

Impervious Area 12.4% (Driveway area only, house roofs drain to infiltrator units)

WQv = 255 FT<sup>3</sup>.

VSM= 62.8 FT<sup>3</sup>.

VDL=62.8 FT<sup>3</sup>.

Rain Garden Volume (RGV)= 157 Cubic FT.

Total Rain Garden Volume= VSM+VDL+RGV= 62.8+62.8+157 FT<sup>3</sup>. =283 FT<sup>3</sup>. >25 FT<sup>3</sup> WQv

Roof Gutter Infiltrators Design Calculations:

Design Criteria:

Each house consists of 1,350 FT<sup>2</sup>. of impervious roof area

Storage volume of each group of infiltrators must store a volume equal to 1in. of stormwater over the impervious drainage contribution area.

Each infiltrator unit (Cultec Contractor 100) stores 215 gallons per unit if installed per detail specifications contained on referenced plans.

Required Storage Volume: 1,350 FT<sup>2</sup>. x 1in.=112.50 FT. = 841.5 Gallons

841.5 Gallons/215 Gallons Storage Per Unit=3.9 Infiltrator Units Required Per House

PRE-POST DEVELOPMENT HYDROLOGIC ANALYSIS OF EASTERLY WATER SHED:

STORM FREQUENCY	PRE DEVELOPMENT FLOW (CFS)	POST DEVELOPMENT FLOW (CFS)
2	2.6	2.8
10	7.6	7.1
25	10.3	10.1
50	12.5	12.0
100	14.9	14.1

Results were calculated using attached Hydrographs computed using the Hydraflow Hydrographs computer software by Inteli Solve.

# Hydrograph Return Period Recap

Hydraflow Hydrographs by Intelisolve v9.22

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	-----	0.000	2.581	-----	-----	7.568	10.33	12.51	14.94	EXISTING WATERSHED
2	SCS Runoff	-----	0.000	2.524	-----	-----	6.452	8.530	10.15	11.94	PROPOSED WATER SHED
3	SCS Runoff	-----	0.000	0.474	-----	-----	1.004	1.268	1.469	1.689	PROPOSED WATER SHED TO DE
4	SCS Runoff	-----	0.000	0.195	-----	-----	0.395	0.494	0.569	0.650	PROPOSED WATERSHED TO FRE
5	Reservoir	3	0.000	0.243	-----	-----	0.609	1.141	1.387	1.642	DRIVEWAY DETNENT
6	Combine	2, 4, 5	0.000	2.904	-----	-----	7.145	10.10	12.02	14.07	PROPOSED COMBINED

# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	2.581	3	732	12,374	---	---	---	EXISTING WATERSHED
2	SCS Runoff	2.524	3	732	11,141	---	---	---	PROPOSED WATER SHED
3	SCS Runoff	0.474	3	726	1,613	---	---	---	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.195	3	726	655	---	---	---	PROPOSED WATERSHED TO FRE
5	Reservoir	0.243	3	738	1,589	3	602.43	251	DRIVEWAY DETNENT
6	Combine	2.904	3	729	13,385	2, 4, 5	---	---	PROPOSED COMBINED
2014-45.gpw					Return Period: 2 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

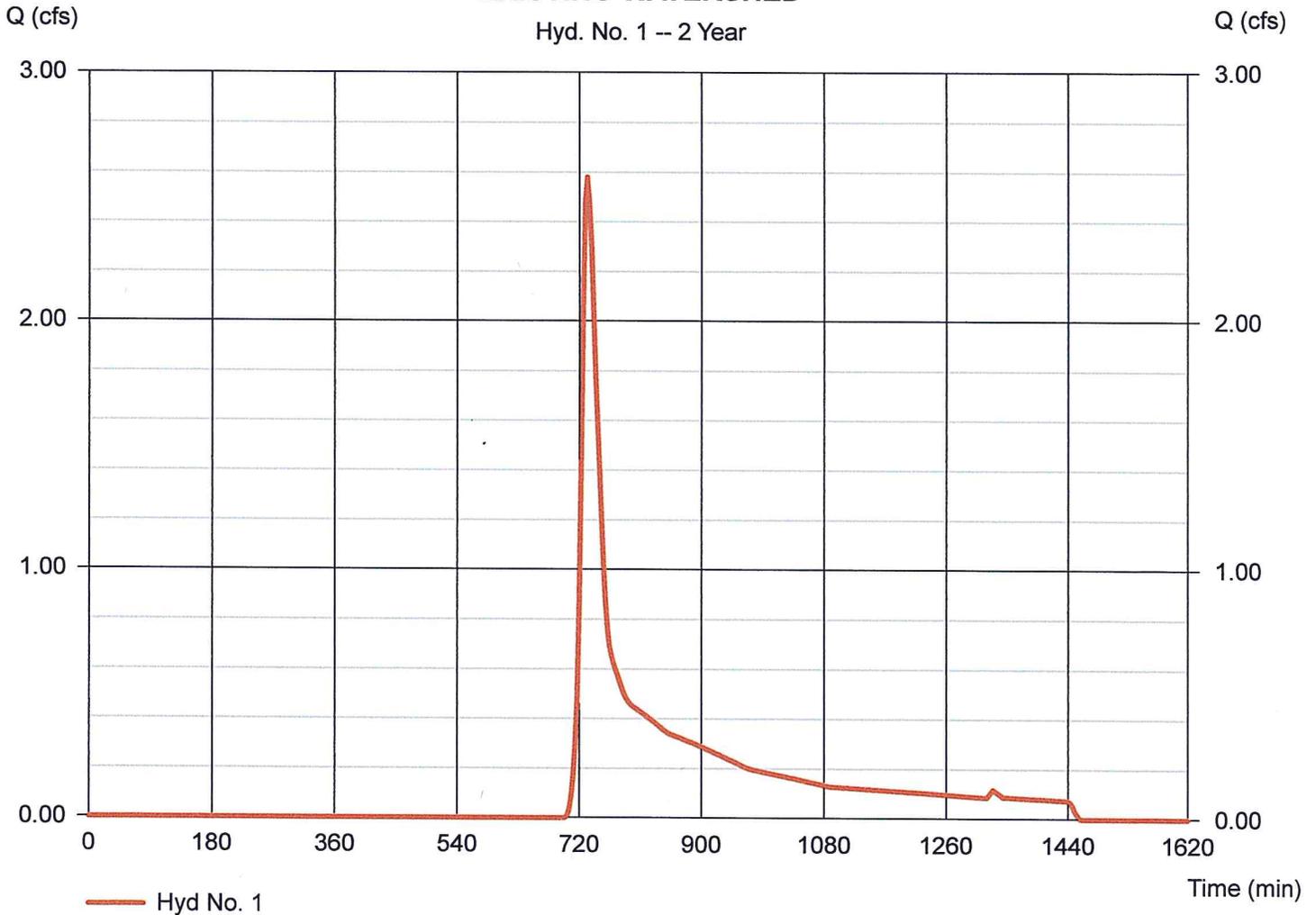
### EXISTING WATERSHED

Hydrograph type = SCS Runoff  
Storm frequency = 2 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 3.25 in  
Storm duration = 24 hrs

Peak discharge = 2.581 cfs  
Time to peak = 732 min  
Hyd. volume = 12,374 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	7.568	3	729	31,356	---	---	---	EXISTING WATERSHED
2	SCS Runoff	6.452	3	729	25,982	---	---	---	PROPOSED WATER SHED
3	SCS Runoff	1.004	3	726	3,338	---	---	---	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.395	3	726	1,314	---	---	---	PROPOSED WATERSHED TO FRE
5	Reservoir	0.609	3	735	3,313	3	603.34	617	DRIVEWAY DETNENT
6	Combine	7.145	3	729	30,610	2, 4, 5	---	---	PROPOSED COMBINED
2014-45.gpw					Return Period: 10 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

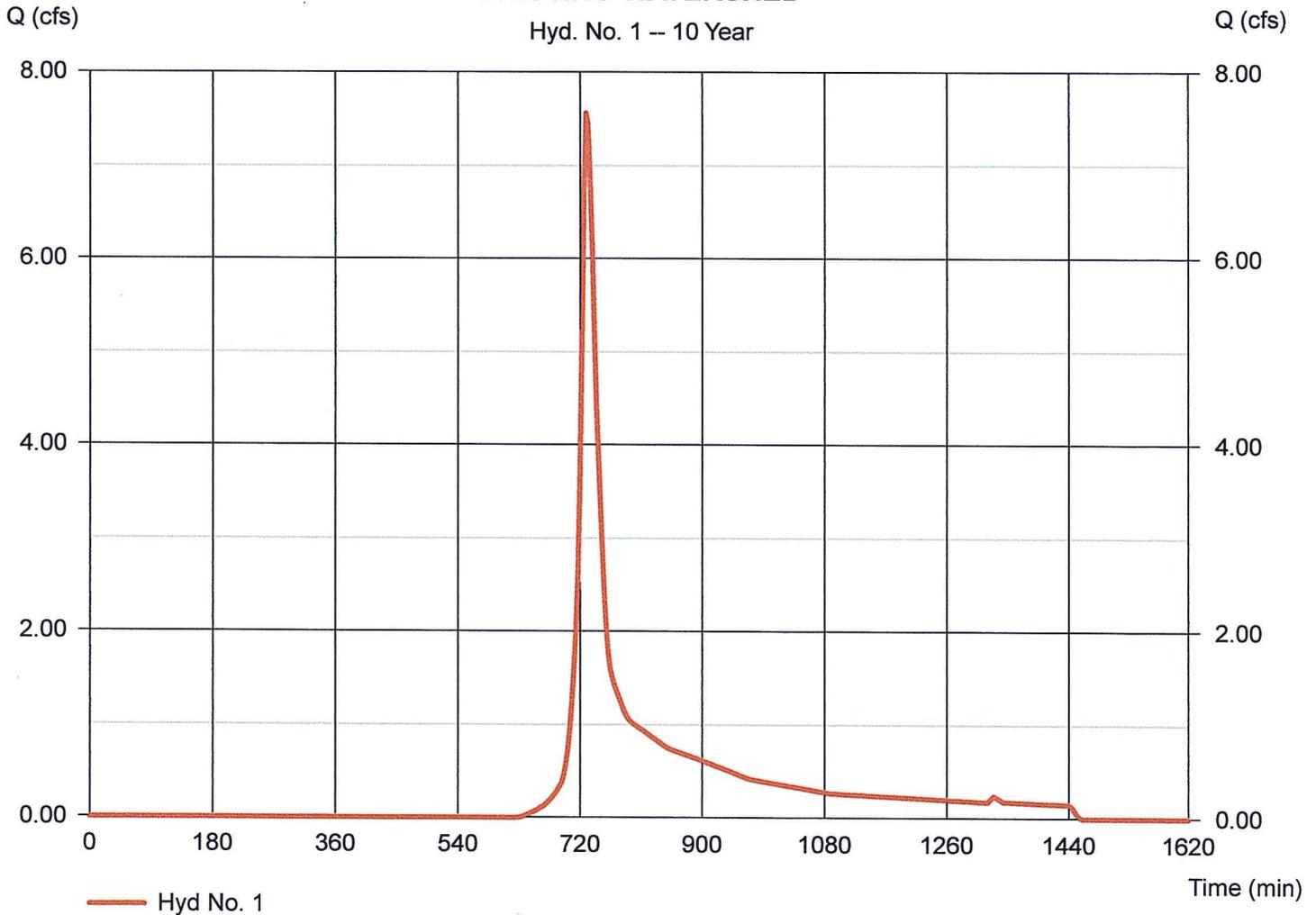
### EXISTING WATERSHED

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 4.95 in  
Storm duration = 24 hrs

Peak discharge = 7.568 cfs  
Time to peak = 729 min  
Hyd. volume = 31,356 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	10.33	3	729	41,777	—	—	—	EXISTING WATERSHED
2	SCS Runoff	8.530	3	729	33,895	—	—	—	PROPOSED WATER SHED
3	SCS Runoff	1.268	3	726	4,218	—	—	—	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.494	3	726	1,647	—	—	—	PROPOSED WATERSHED TO FRE
5	Reservoir	1.141	3	729	4,193	3	603.43	670	DRIVEWAY DETNENT
6	Combine	10.10	3	729	39,736	2, 4, 5	—	—	PROPOSED COMBINED
2014-45.gpw					Return Period: 25 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

### EXISTING WATERSHED

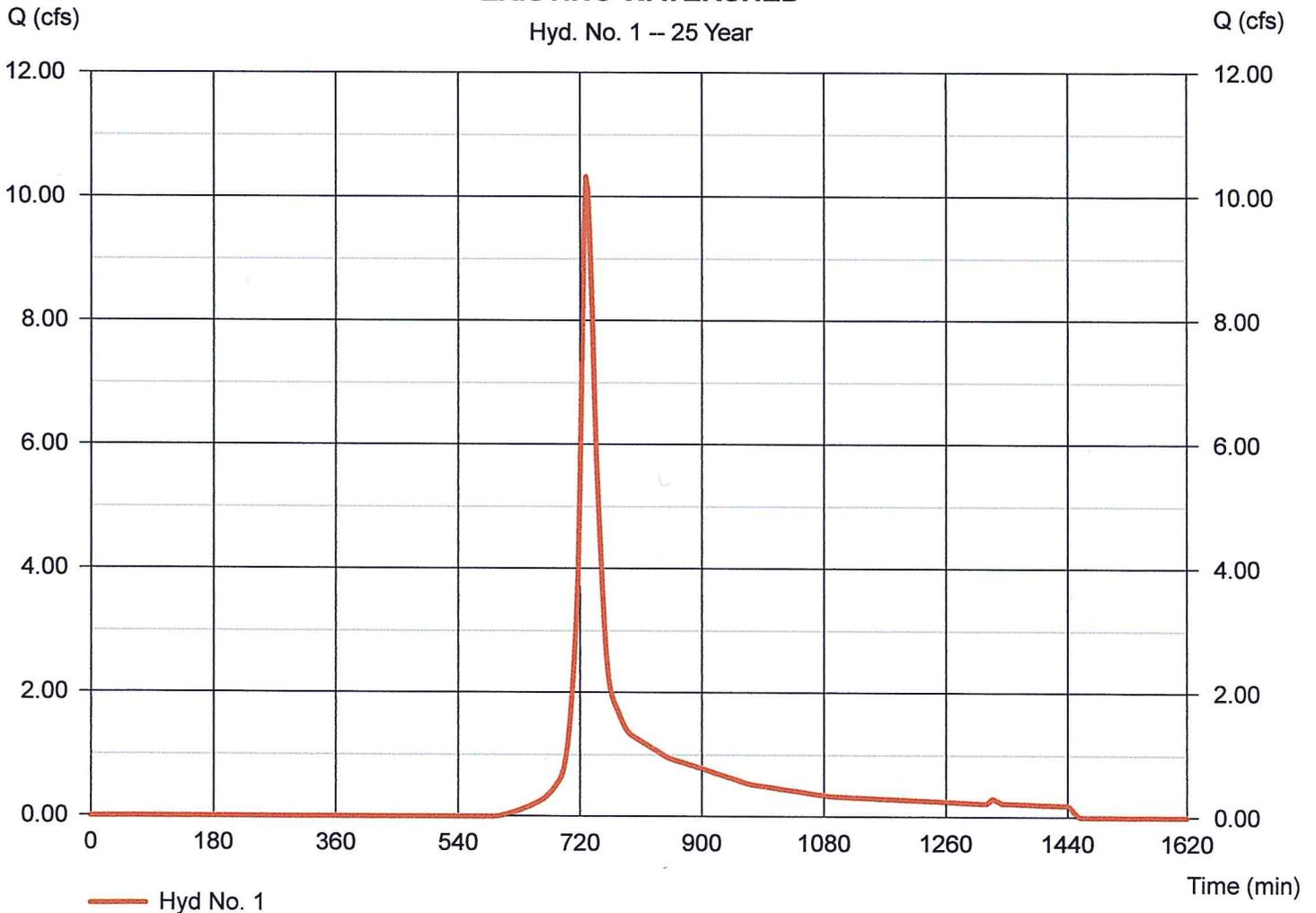
Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 5.75 in  
Storm duration = 24 hrs

Peak discharge = 10.33 cfs  
Time to peak = 729 min  
Hyd. volume = 41,777 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED

Hyd. No. 1 -- 25 Year



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	12.51	3	729	50,033	---	---	---	EXISTING WATERSHED
2	SCS Runoff	10.15	3	729	40,097	---	---	---	PROPOSED WATER SHED
3	SCS Runoff	1.469	3	726	4,897	---	---	---	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.569	3	726	1,903	---	---	---	PROPOSED WATERSHED TO FRE
5	Reservoir	1.387	3	729	4,872	3	603.48	689	DRIVEWAY DETNENT
6	Combine	12.02	3	729	46,871	2, 4, 5	---	---	PROPOSED COMBINED
2014-45.gpw					Return Period: 50 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

### EXISTING WATERSHED

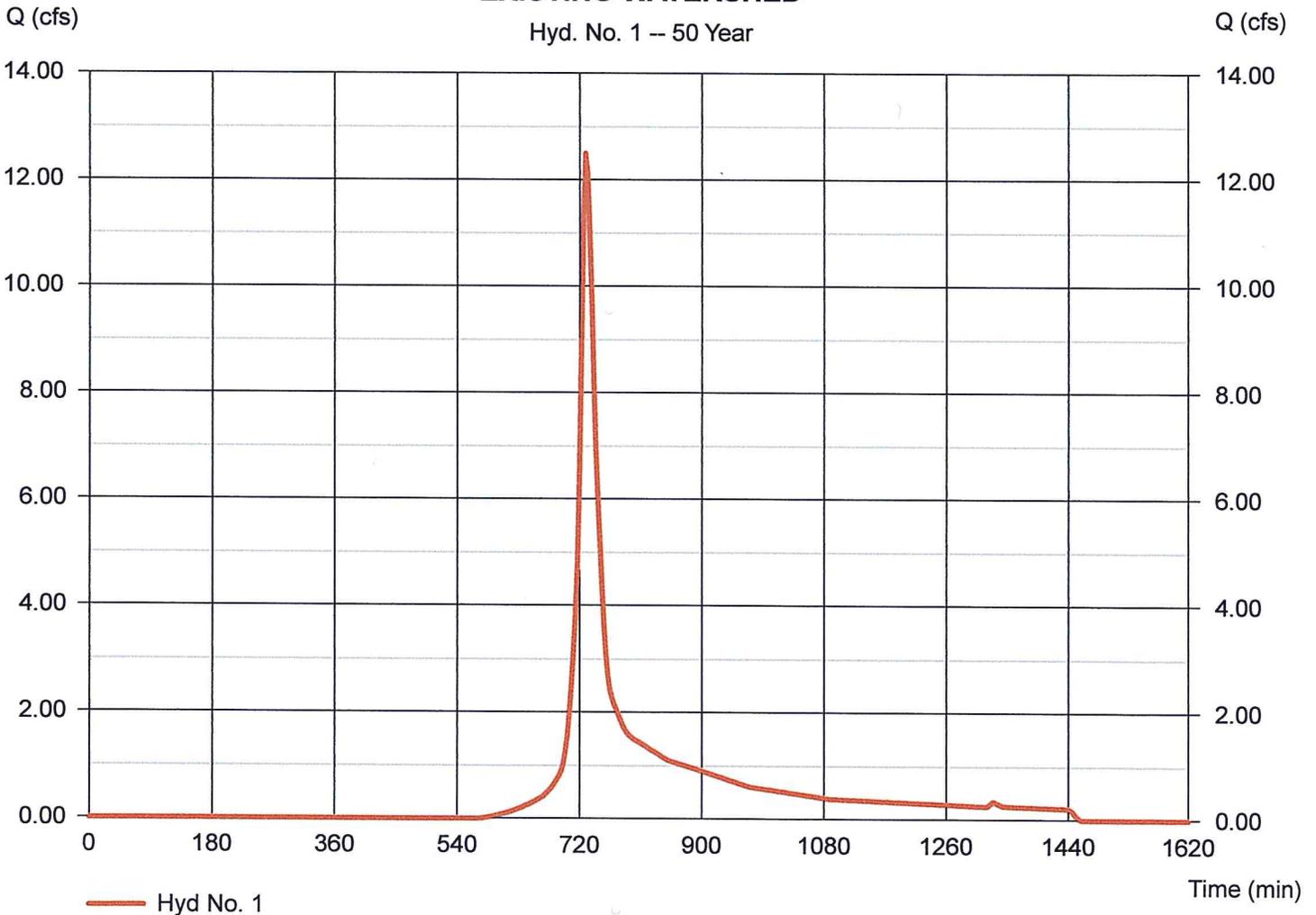
Hydrograph type = SCS Runoff  
Storm frequency = 50 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 6.35 in  
Storm duration = 24 hrs

Peak discharge = 12.51 cfs  
Time to peak = 729 min  
Hyd. volume = 50,033 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED

Hyd. No. 1 -- 50 Year



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	14.94	3	729	59,324	---	---	---	EXISTING WATERSHED
2	SCS Runoff	11.94	3	729	47,023	---	---	---	PROPOSED WATER SHED
3	SCS Runoff	1.689	3	726	5,646	---	---	---	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.650	3	726	2,184	---	---	---	PROPOSED WATERSHED TO FRE
5	Reservoir	1.642	3	726	5,621	3	603.51	709	DRIVEWAY DETNENT
6	Combine	14.07	3	729	54,828	2, 4, 5	---	---	PROPOSED COMBINED
2014-45.gpw					Return Period: 100 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

### EXISTING WATERSHED

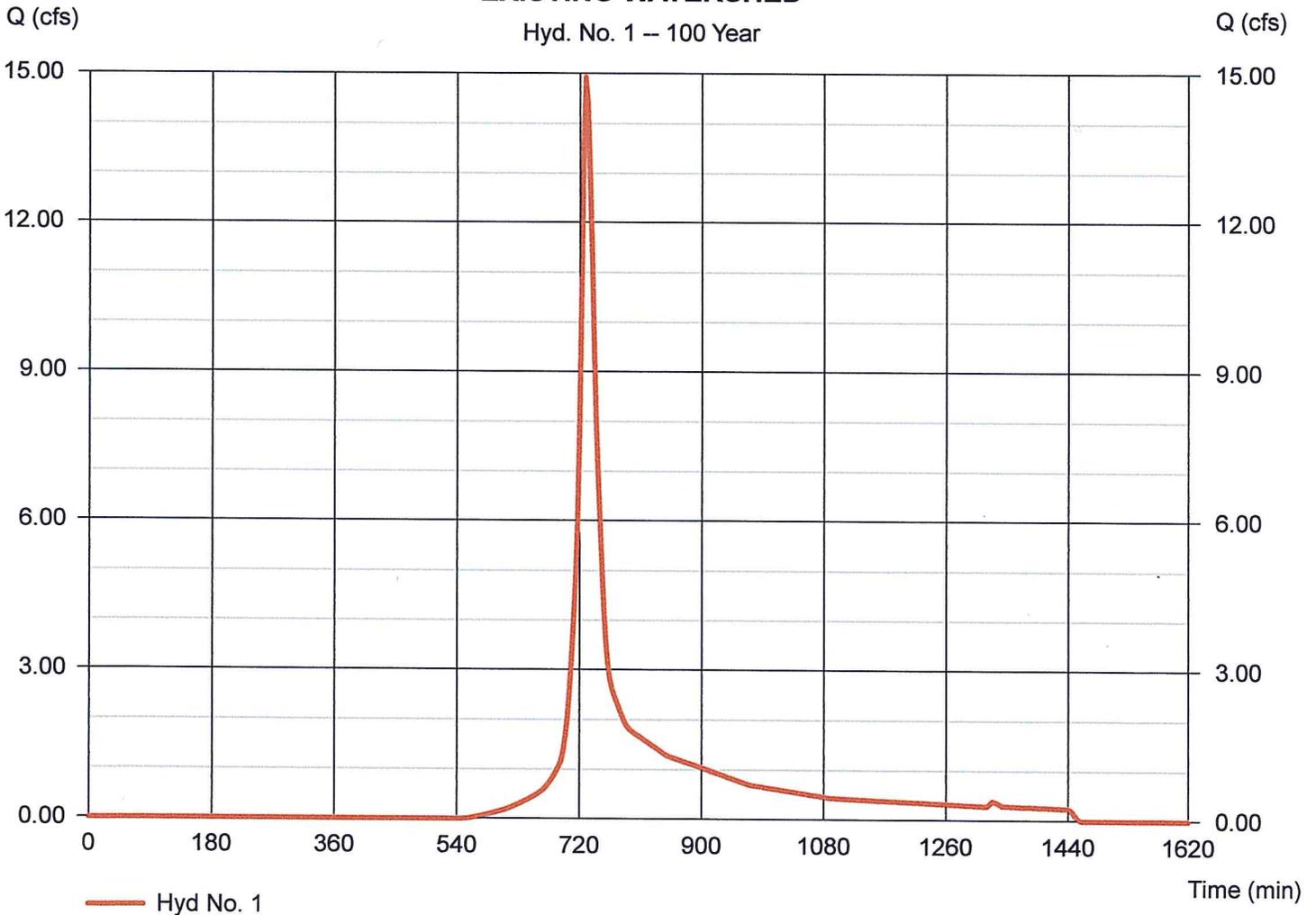
Hydrograph type = SCS Runoff  
Storm frequency = 100 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 7.00 in  
Storm duration = 24 hrs

Peak discharge = 14.94 cfs  
Time to peak = 729 min  
Hyd. volume = 59,324 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED

Hyd. No. 1 -- 100 Year



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	7.568	3	729	31,356	---	---	---	EXISTING WATERSHED
2	SCS Runoff	6.452	3	729	25,982	---	---	---	PROPOSED WATER SHED
3	SCS Runoff	1.004	3	726	3,338	---	---	---	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.395	3	726	1,314	---	---	---	PROPOSED WATERSHED TO FRE
5	Reservoir	0.609	3	735	3,313	3	603.34	617	DRIVEWAY DETNENT
6	Combine	7.145	3	729	30,610	2, 4, 5	---	---	PROPOSED COMBINED
2014-45.gpw					Return Period: 10 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

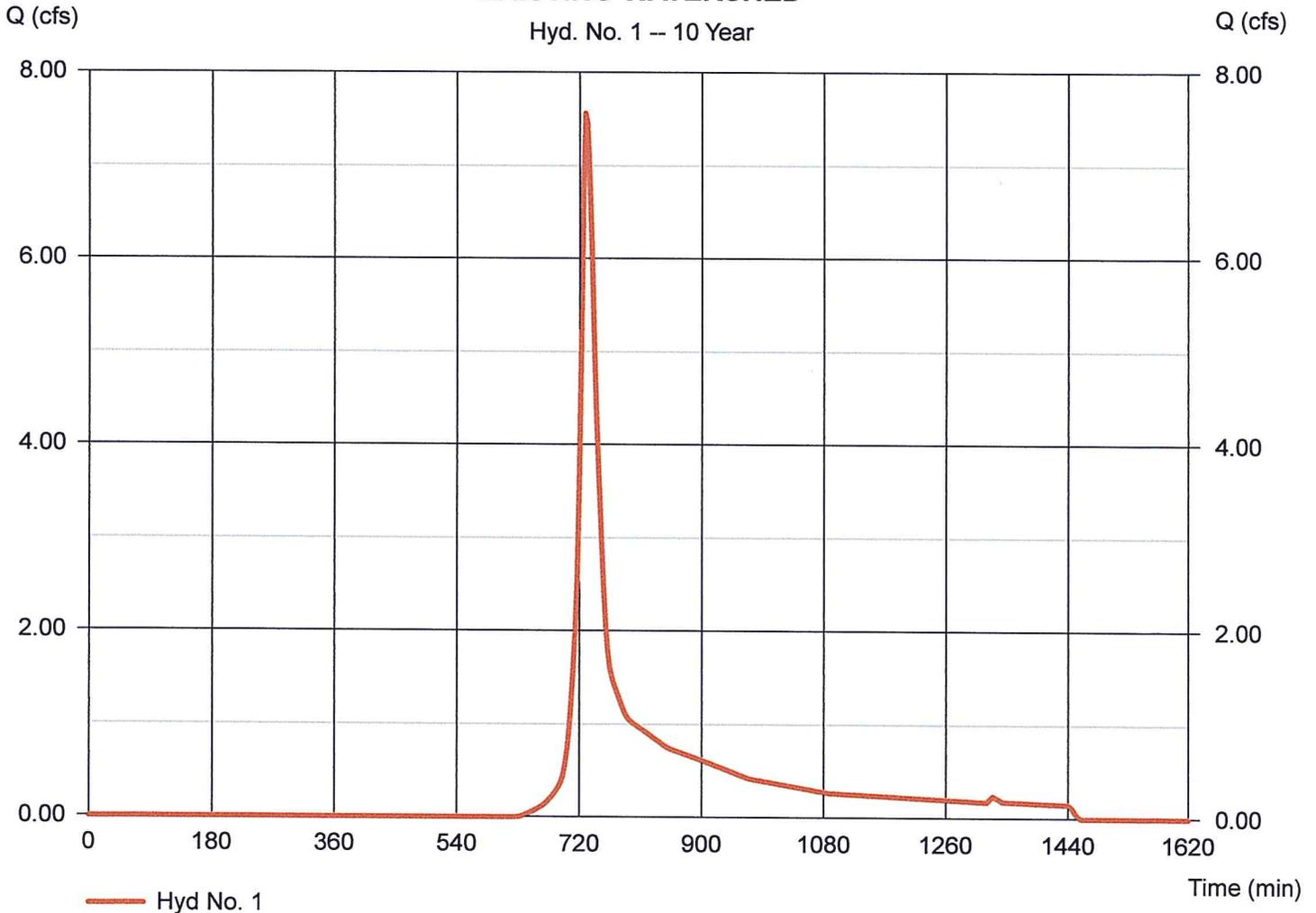
### EXISTING WATERSHED

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 4.95 in  
Storm duration = 24 hrs

Peak discharge = 7.568 cfs  
Time to peak = 729 min  
Hyd. volume = 31,356 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED



# Hydrograph Report

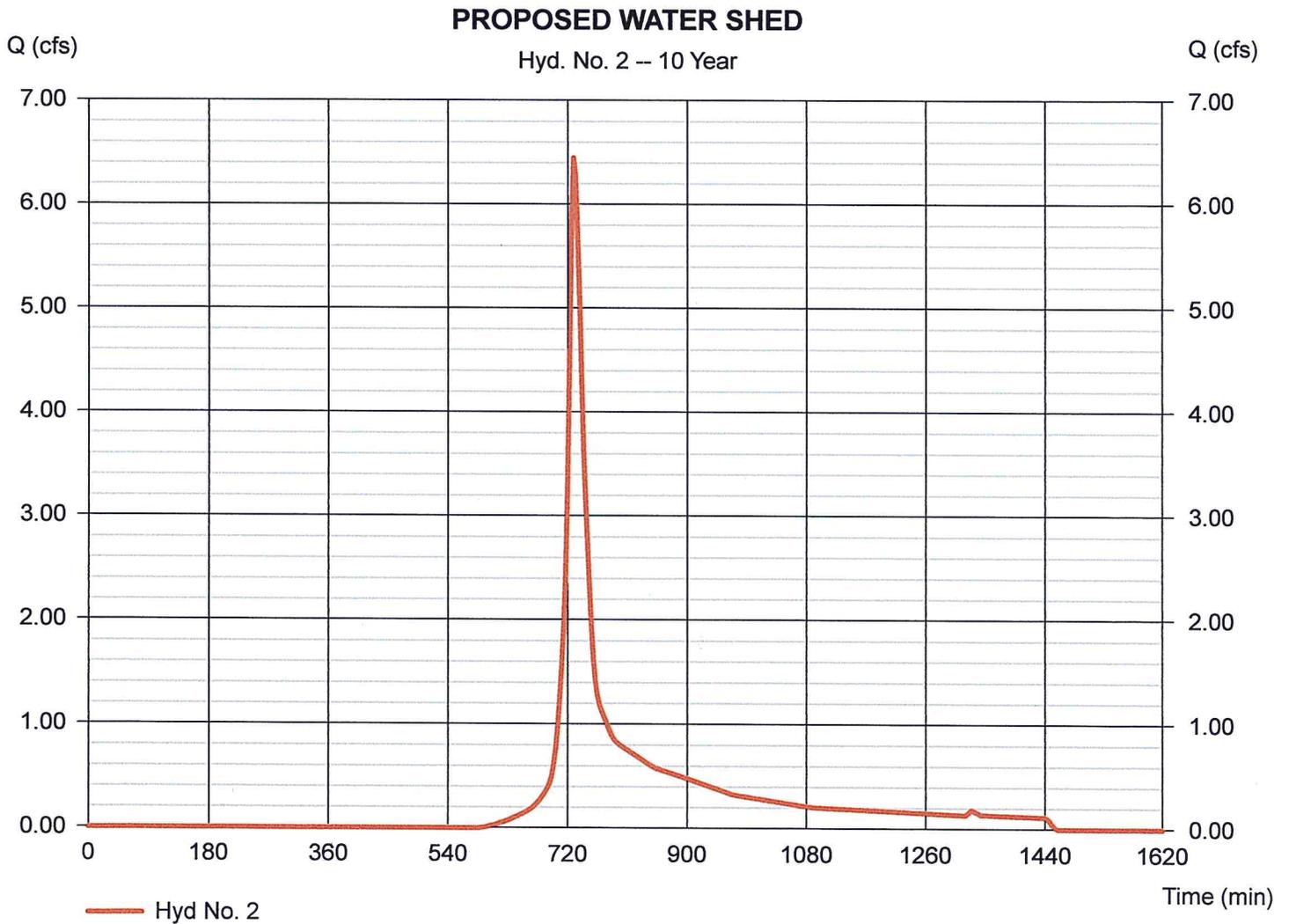
## Hyd. No. 2

### PROPOSED WATER SHED

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Time interval = 3 min  
Drainage area = 3.580 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 4.95 in  
Storm duration = 24 hrs

Peak discharge = 6.452 cfs  
Time to peak = 729 min  
Hyd. volume = 25,982 cuft  
Curve number = 70\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 13.80 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.430 x 69)] / 3.580



# Hydrograph Report

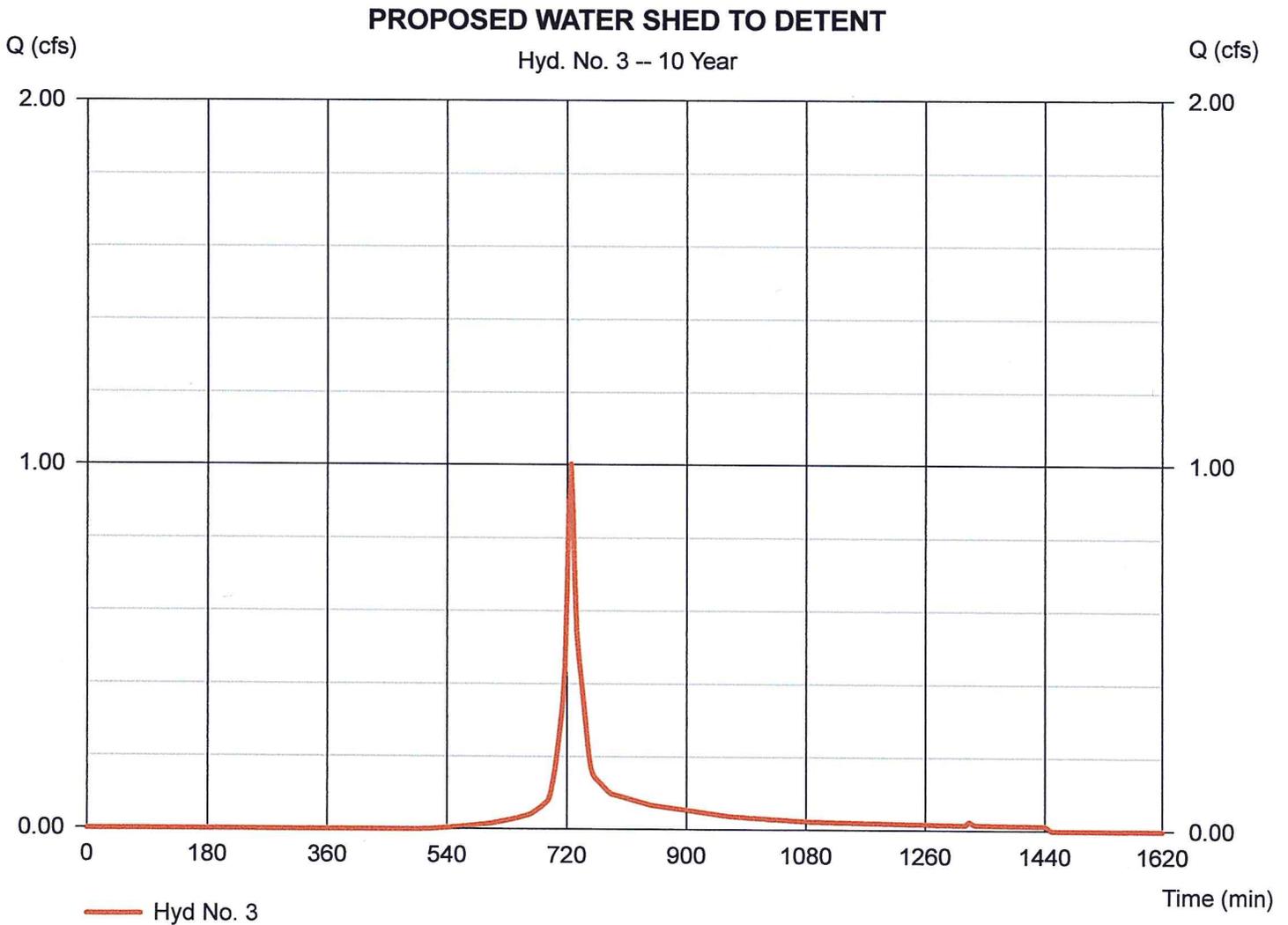
## Hyd. No. 3

### PROPOSED WATER SHED TO DETENT

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Time interval = 3 min  
Drainage area = 0.380 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 4.95 in  
Storm duration = 24 hrs

Peak discharge = 1.004 cfs  
Time to peak = 726 min  
Hyd. volume = 3,338 cuft  
Curve number = 77\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.110 x 98) + (0.270 x 69)] / 0.380



# Hydrograph Report

## Hyd. No. 4

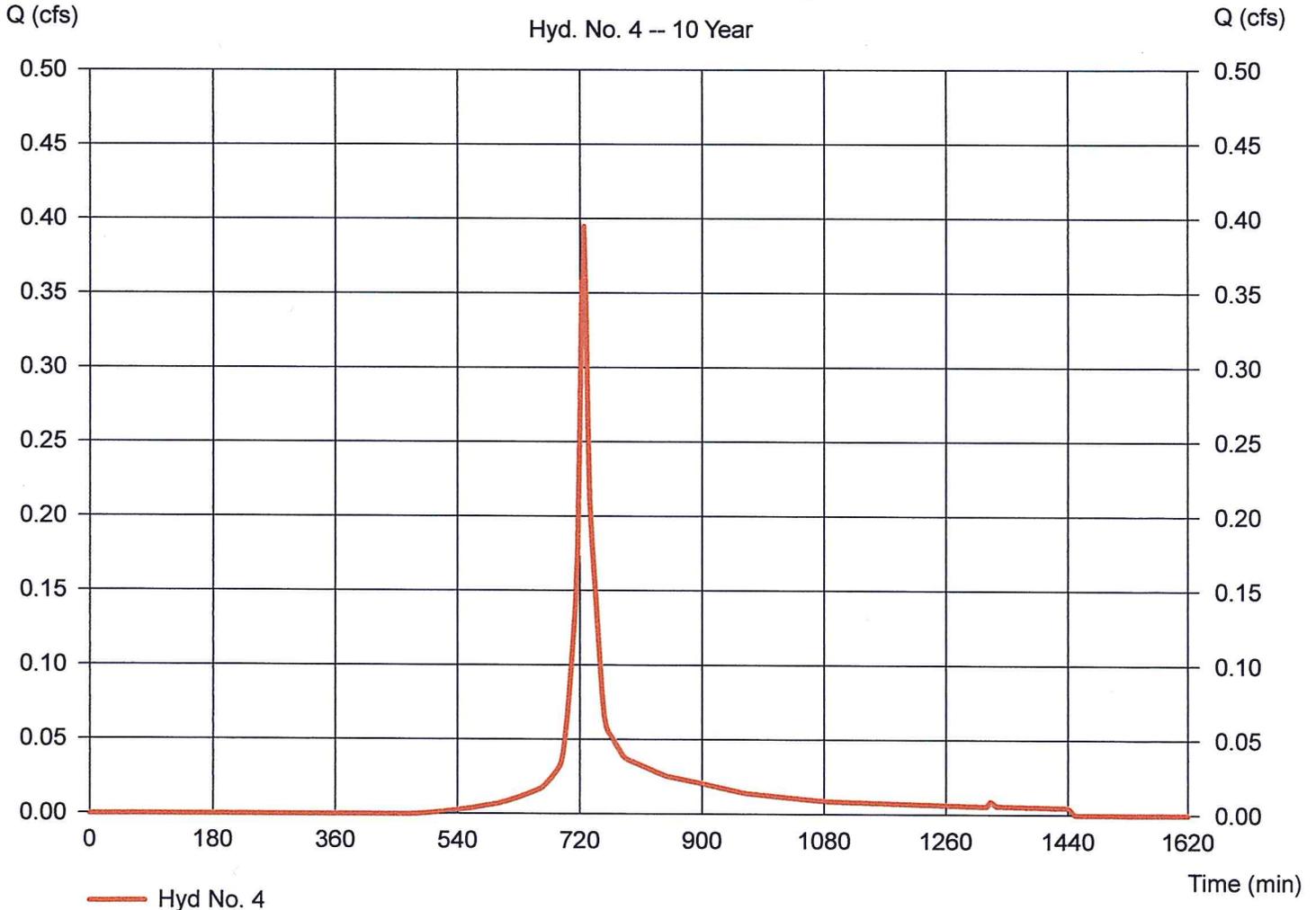
### PROPOSED WATERSHED TO FRENCH RD

Hydrograph type = SCS Runoff  
Storm frequency = 10 yrs  
Time interval = 3 min  
Drainage area = 0.140 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 4.95 in  
Storm duration = 24 hrs

Peak discharge = 0.395 cfs  
Time to peak = 726 min  
Hyd. volume = 1,314 cuft  
Curve number = 79\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) =  $[(0.050 \times 98) + (0.090 \times 69)] / 0.140$

### PROPOSED WATERSHED TO FRENCH RD



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

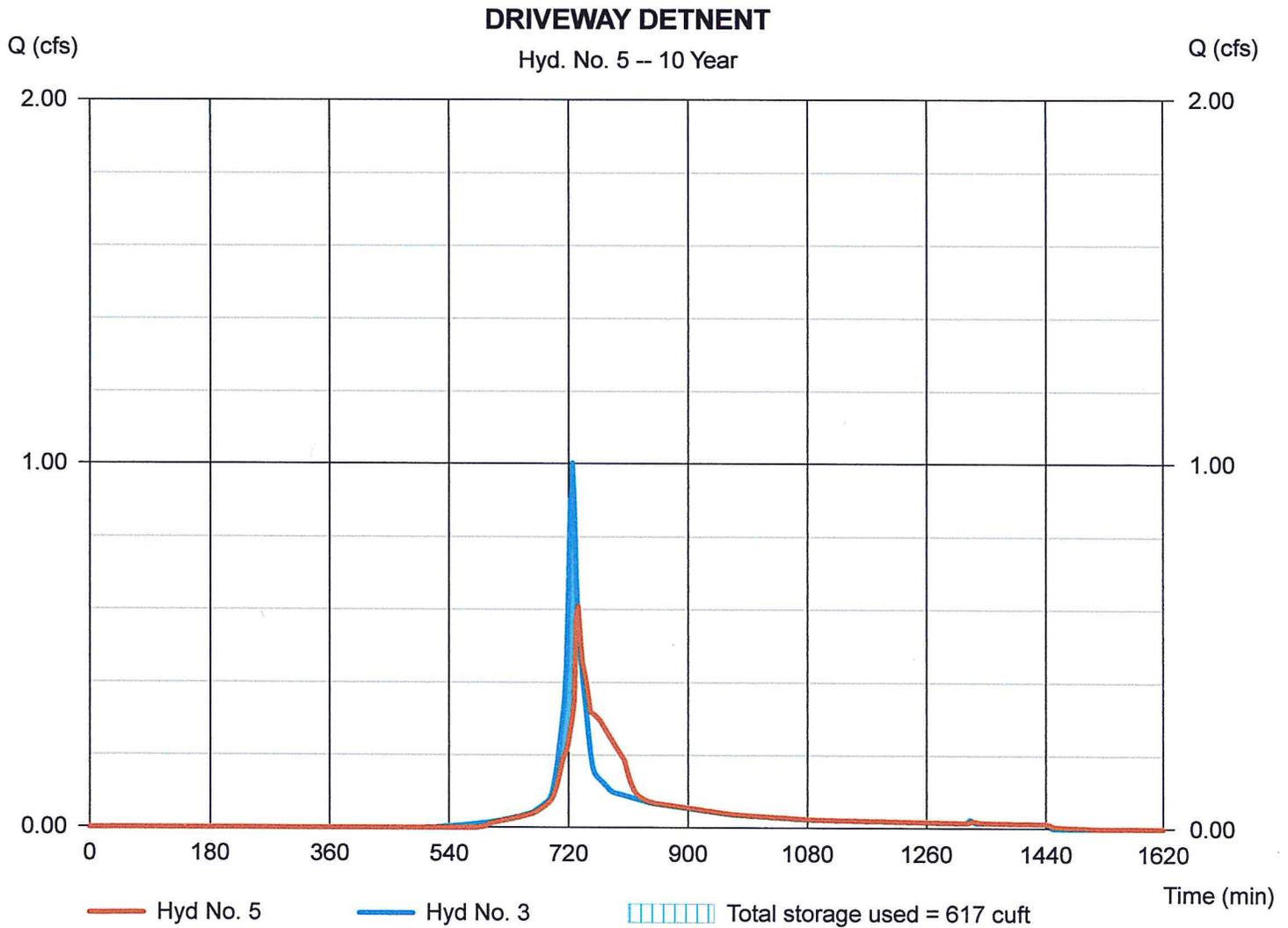
Friday, Aug 28, 2015

## Hyd. No. 5

### DRIVEWAY DETNENT

Hydrograph type	= Reservoir	Peak discharge	= 0.609 cfs
Storm frequency	= 10 yrs	Time to peak	= 735 min
Time interval	= 3 min	Hyd. volume	= 3,313 cuft
Inflow hyd. No.	= 3 - PROPOSED WATER SHED TO DETNENT	Max. Elevation	= 603.34 ft
Reservoir name	= DRIVEWAY DETNENT	Max. Storage	= 617 cuft

Storage Indication method used.



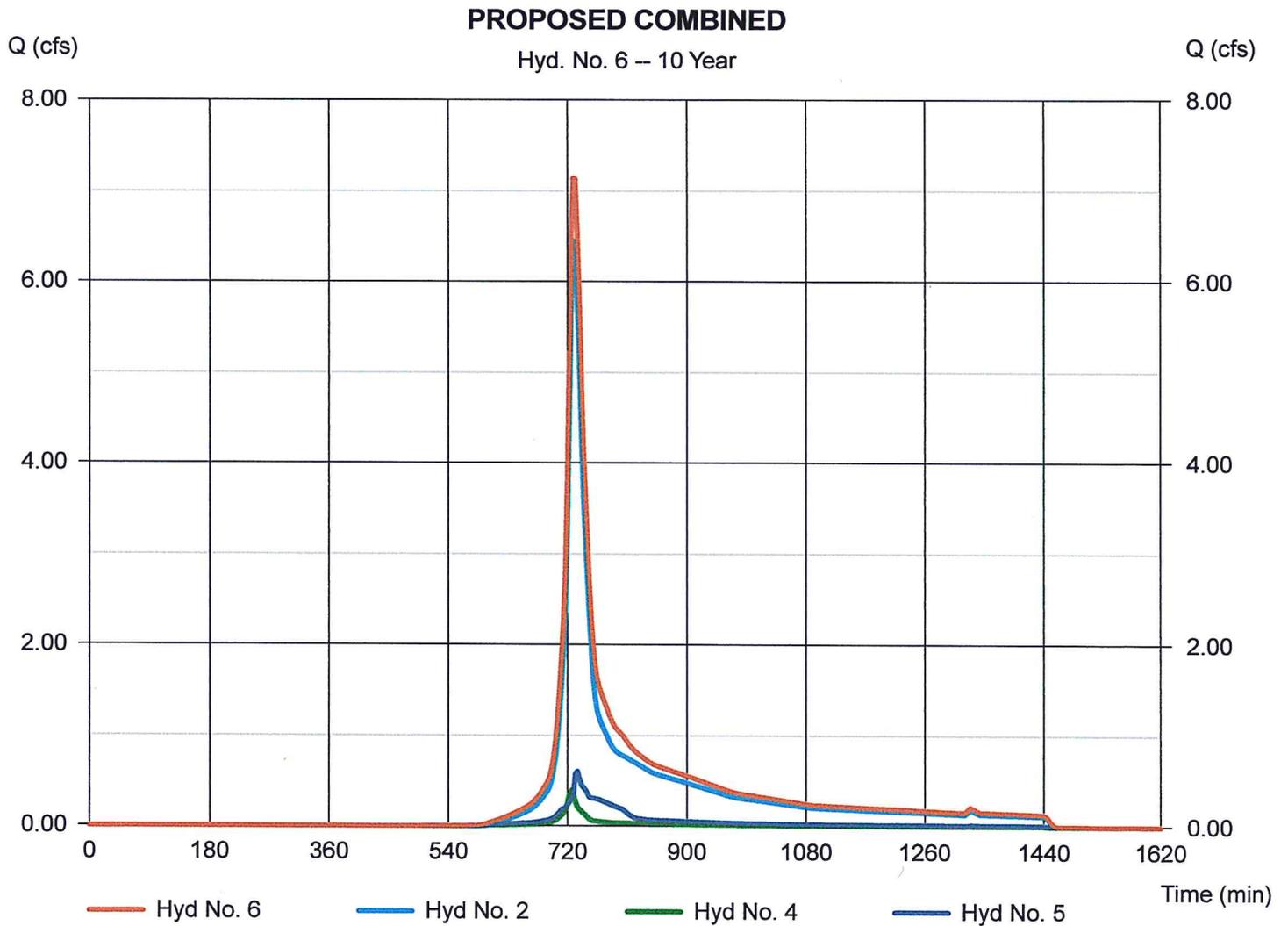
# Hydrograph Report

## Hyd. No. 6

### PROPOSED COMBINED

Hydrograph type = Combine  
Storm frequency = 10 yrs  
Time interval = 3 min  
Inflow hyds. = 2, 4, 5

Peak discharge = 7.145 cfs  
Time to peak = 729 min  
Hyd. volume = 30,610 cuft  
Contrib. drain. area = 3.720 ac



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	10.33	3	729	41,777	---	----	----	EXISTING WATERSHED
2	SCS Runoff	8.530	3	729	33,895	---	----	----	PROPOSED WATER SHED
3	SCS Runoff	1.268	3	726	4,218	---	----	----	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.494	3	726	1,647	---	----	----	PROPOSED WATERSHED TO FRE
5	Reservoir	1.141	3	729	4,193	3	603.43	670	DRIVEWAY DETNENT
6	Combine	10.10	3	729	39,736	2, 4, 5	----	----	PROPOSED COMBINED
2014-45.gpw					Return Period: 25 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

### EXISTING WATERSHED

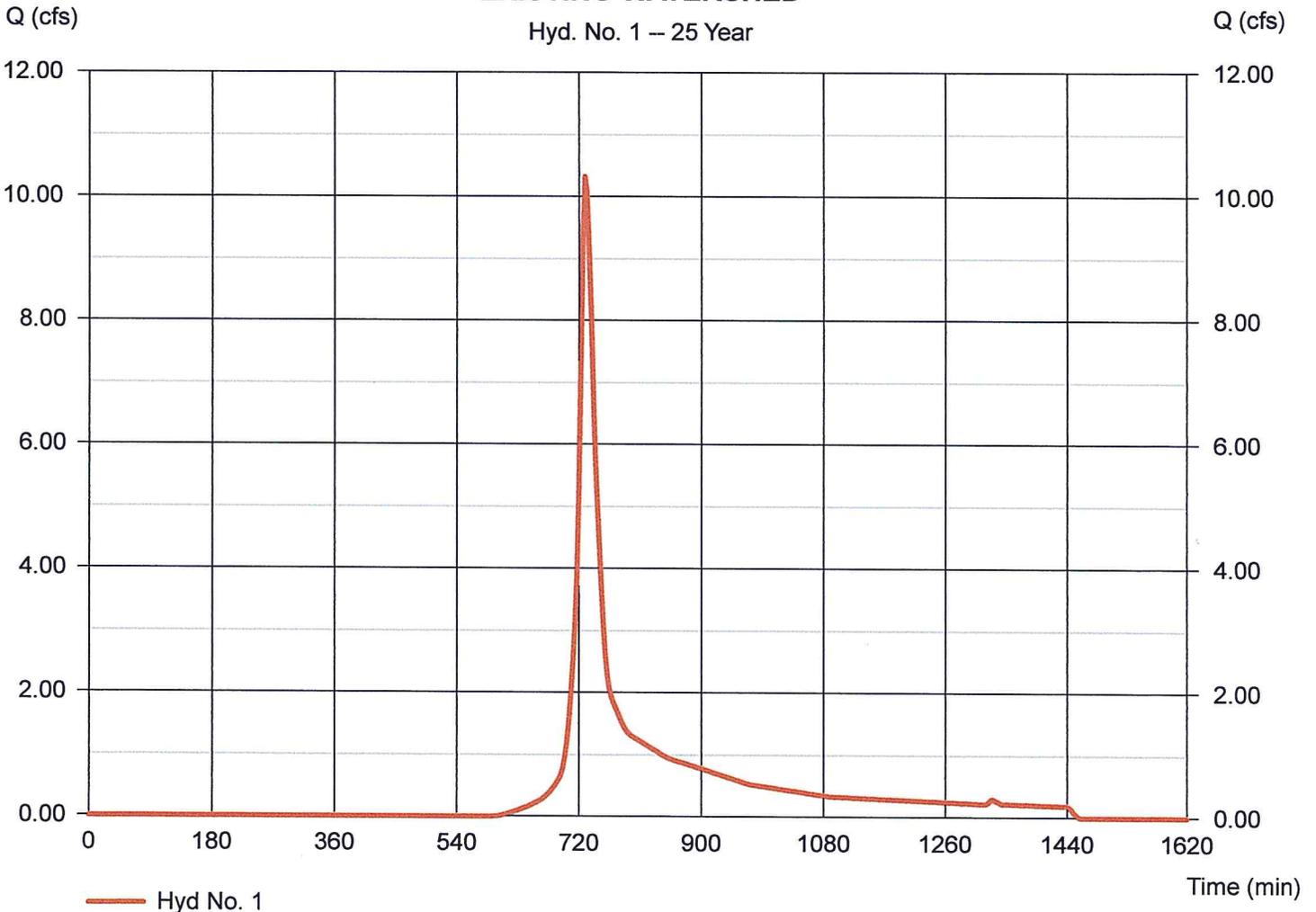
Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 5.75 in  
Storm duration = 24 hrs

Peak discharge = 10.33 cfs  
Time to peak = 729 min  
Hyd. volume = 41,777 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED

Hyd. No. 1 -- 25 Year



# Hydrograph Report

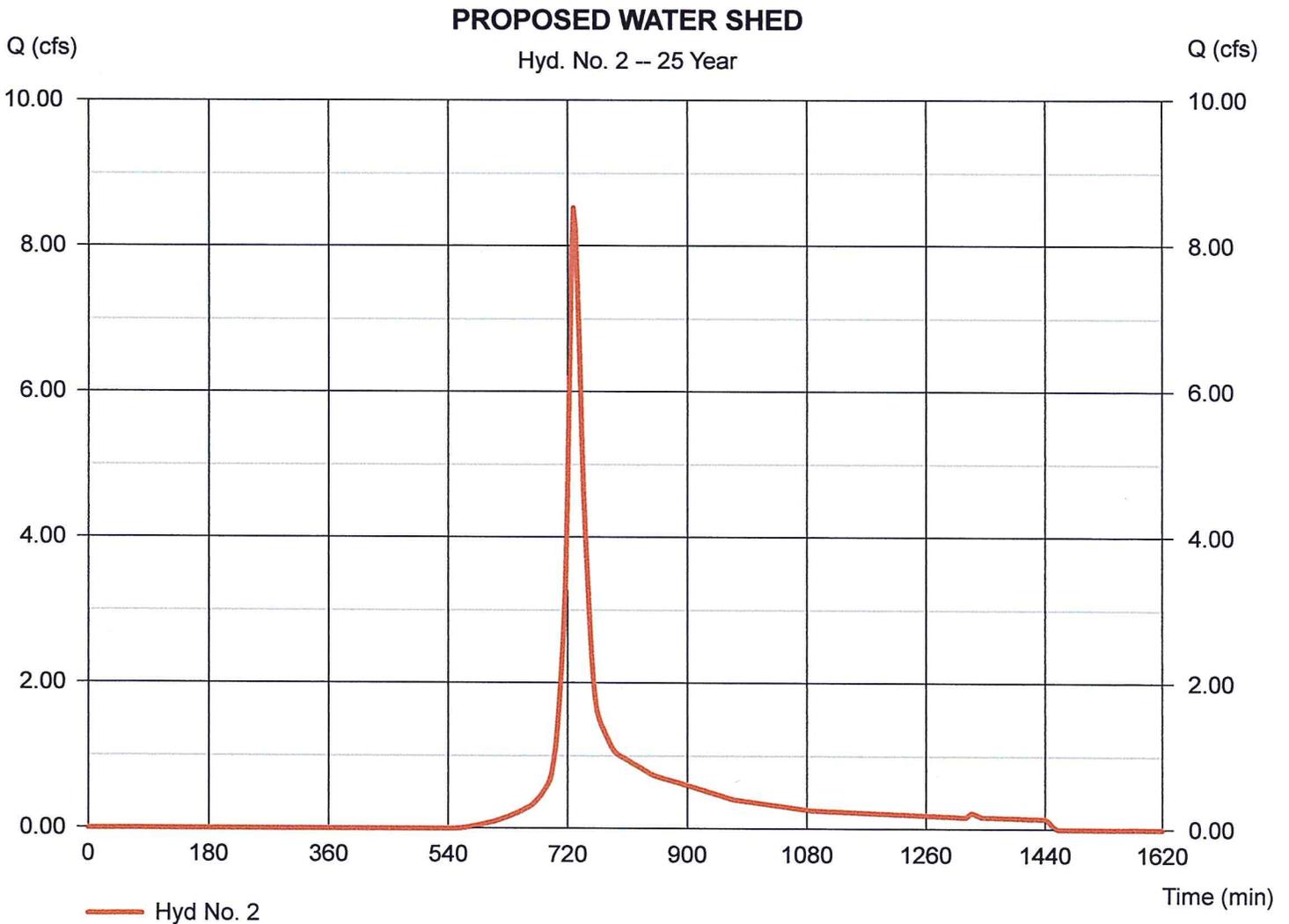
## Hyd. No. 2

### PROPOSED WATER SHED

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 3.580 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 5.75 in  
Storm duration = 24 hrs

Peak discharge = 8.530 cfs  
Time to peak = 729 min  
Hyd. volume = 33,895 cuft  
Curve number = 70\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 13.80 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) =  $[(0.150 \times 98) + (3.430 \times 69)] / 3.580$



# Hydrograph Report

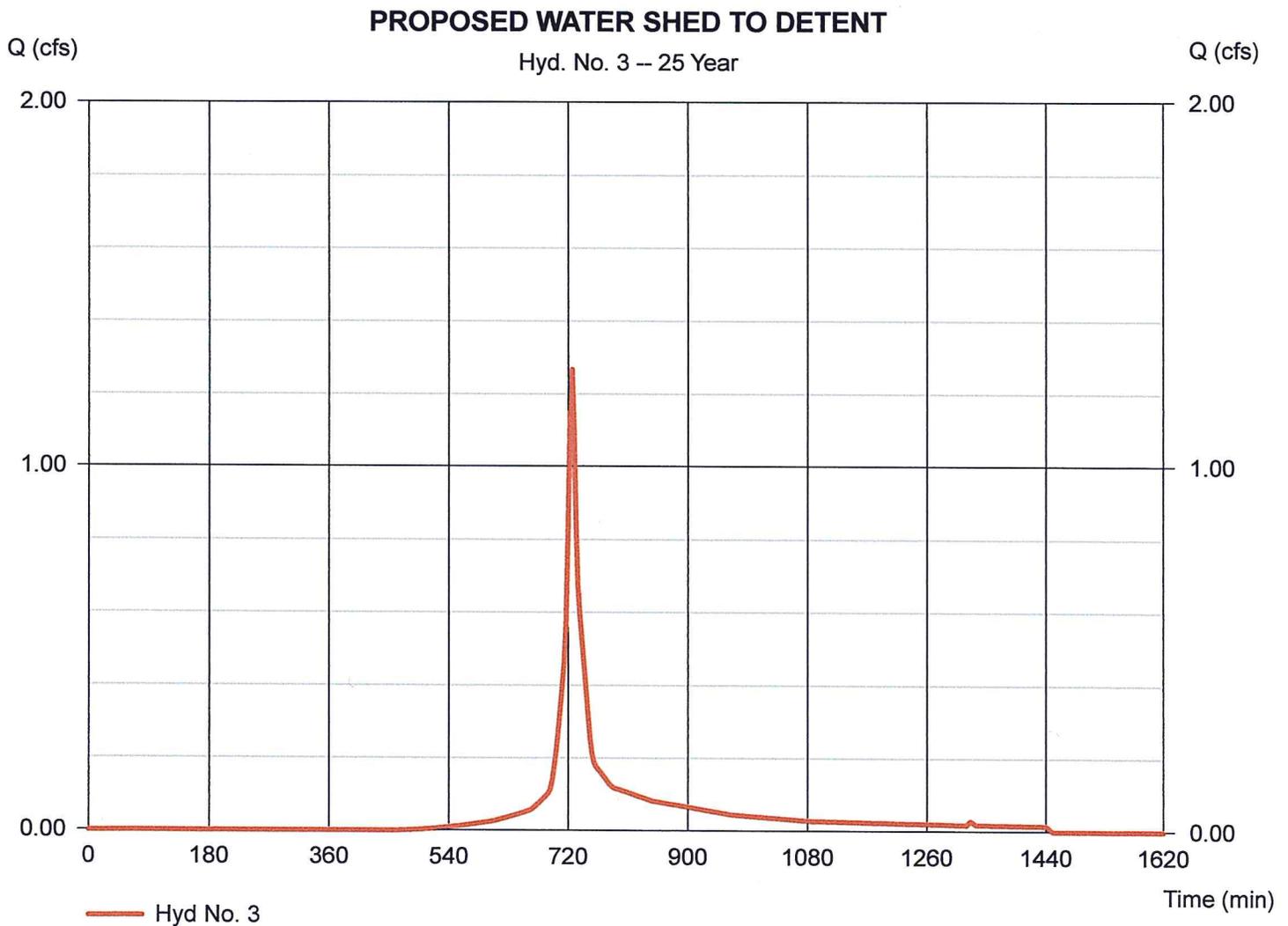
## Hyd. No. 3

### PROPOSED WATER SHED TO DETENT

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 0.380 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.75 in  
Storm duration = 24 hrs

Peak discharge = 1.268 cfs  
Time to peak = 726 min  
Hyd. volume = 4,218 cuft  
Curve number = 77\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.110 x 98) + (0.270 x 69)] / 0.380



# Hydrograph Report

## Hyd. No. 4

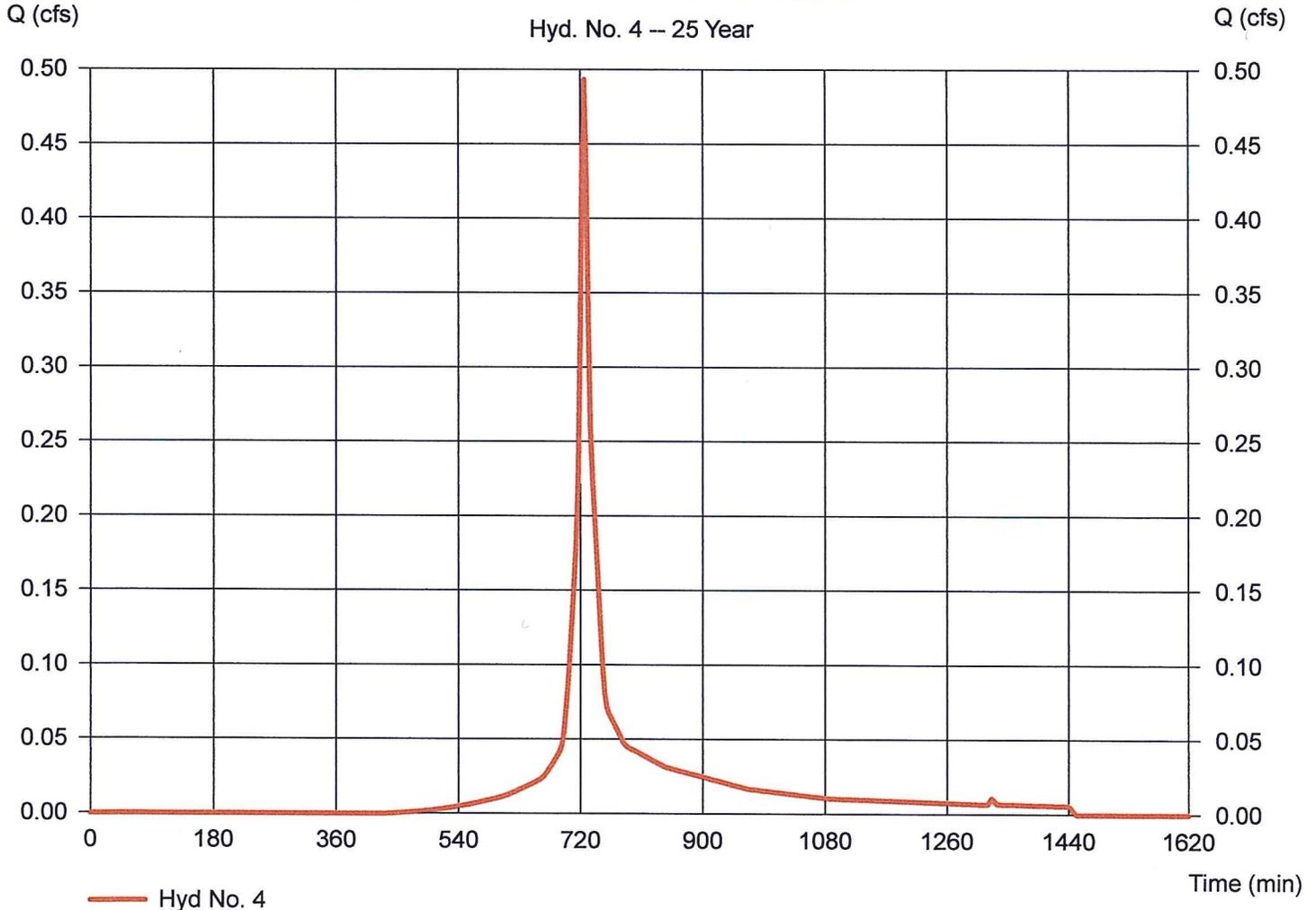
### PROPOSED WATERSHED TO FRENCH RD

Hydrograph type = SCS Runoff  
Storm frequency = 25 yrs  
Time interval = 3 min  
Drainage area = 0.140 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 5.75 in  
Storm duration = 24 hrs

Peak discharge = 0.494 cfs  
Time to peak = 726 min  
Hyd. volume = 1,647 cuft  
Curve number = 79\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) =  $[(0.050 \times 98) + (0.090 \times 69)] / 0.140$

### PROPOSED WATERSHED TO FRENCH RD



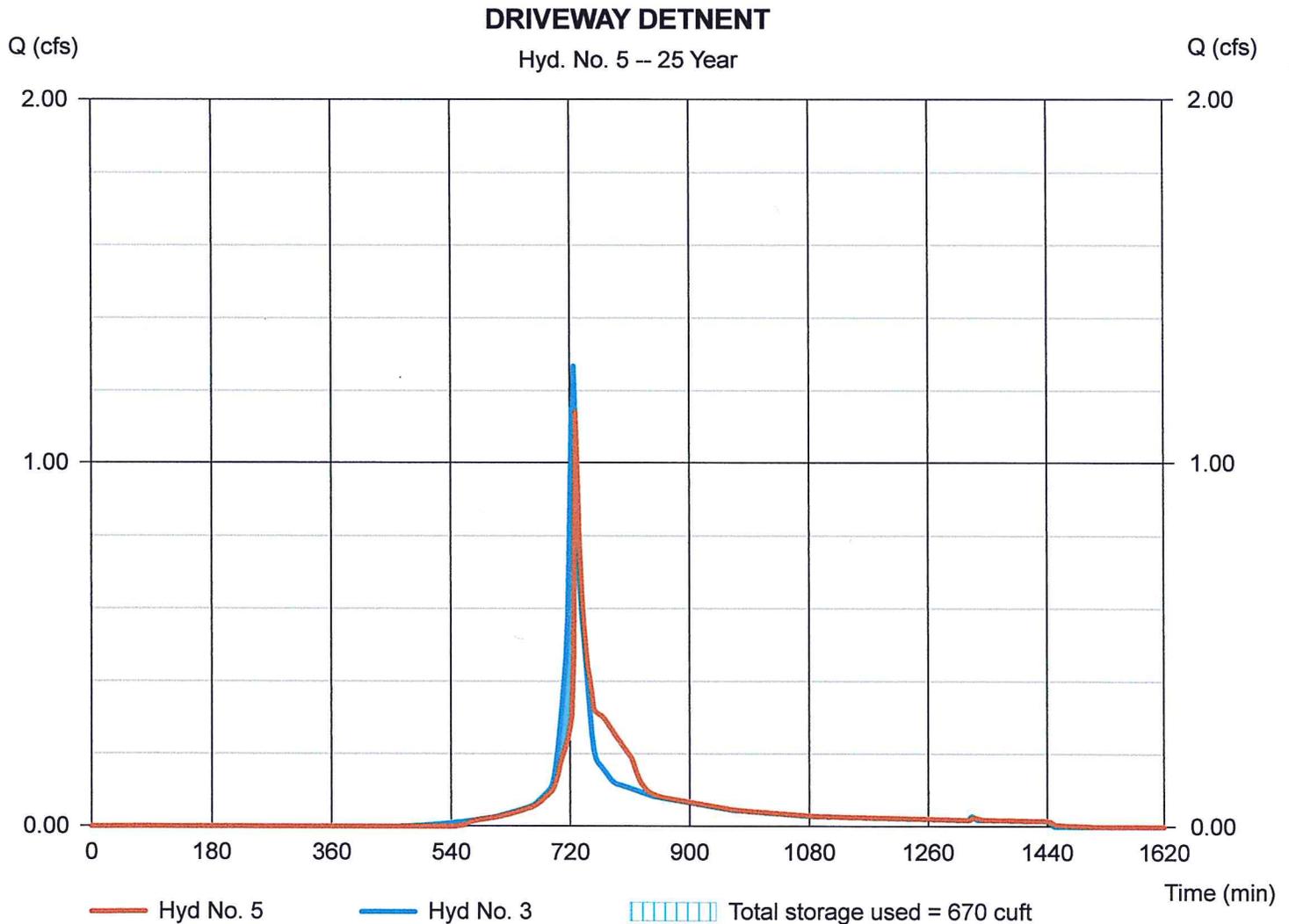
# Hydrograph Report

## Hyd. No. 5

### DRIVEWAY DETNENT

Hydrograph type	= Reservoir	Peak discharge	= 1.141 cfs
Storm frequency	= 25 yrs	Time to peak	= 729 min
Time interval	= 3 min	Hyd. volume	= 4,193 cuft
Inflow hyd. No.	= 3 - PROPOSED WATER SHED TO DETNENT	Max. Elevation	= 603.43 ft
Reservoir name	= DRIVEWAY DETNENT	Max. Storage	= 670 cuft

Storage Indication method used.



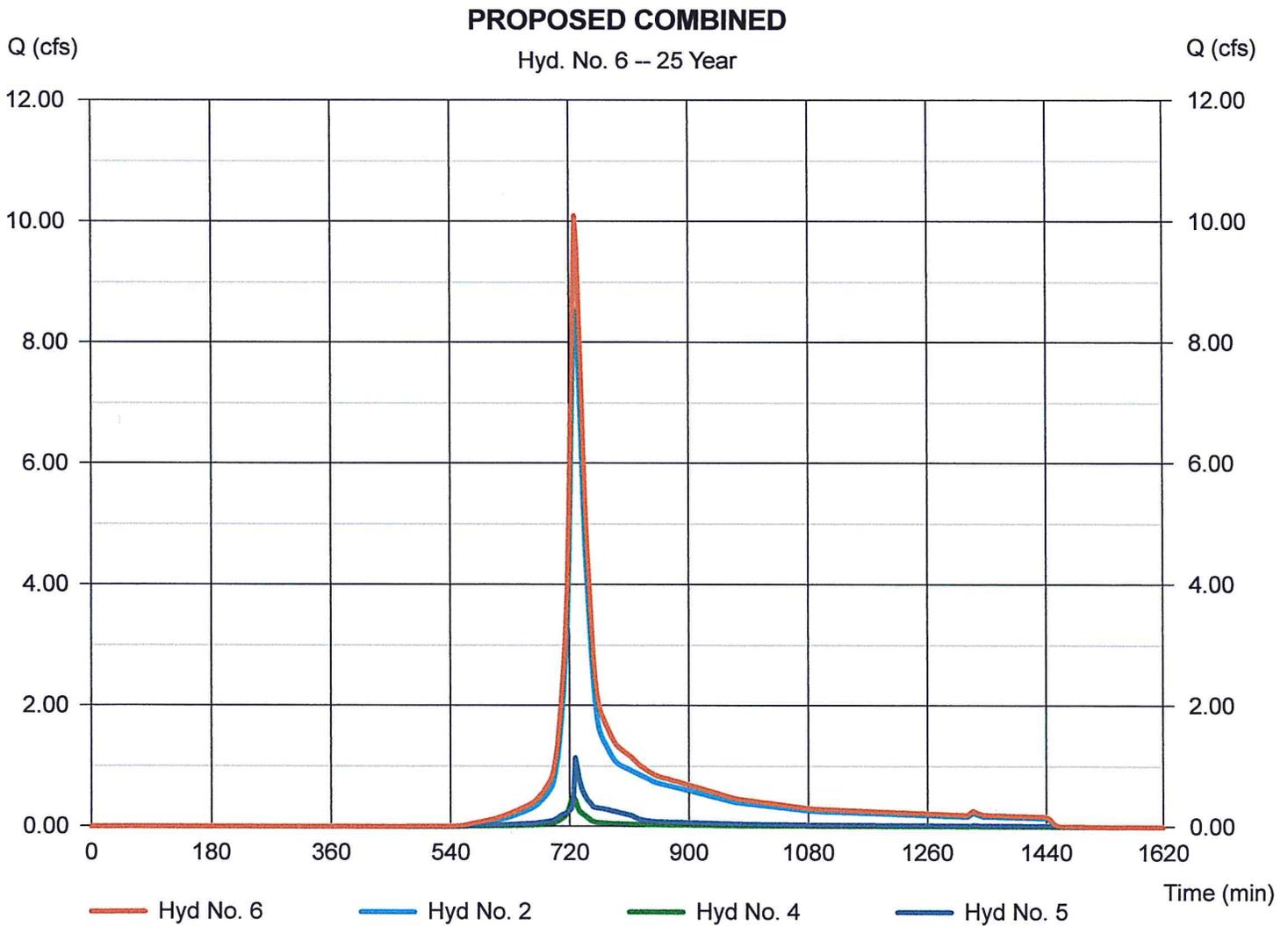
# Hydrograph Report

## Hyd. No. 6

### PROPOSED COMBINED

Hydrograph type = Combine  
Storm frequency = 25 yrs  
Time interval = 3 min  
Inflow hyds. = 2, 4, 5

Peak discharge = 10.10 cfs  
Time to peak = 729 min  
Hyd. volume = 39,736 cuft  
Contrib. drain. area = 3.720 ac



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	12.51	3	729	50,033	---	----	----	EXISTING WATERSHED
2	SCS Runoff	10.15	3	729	40,097	---	----	----	PROPOSED WATER SHED
3	SCS Runoff	1.469	3	726	4,897	---	----	----	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.569	3	726	1,903	---	----	----	PROPOSED WATERSHED TO FRE
5	Reservoir	1.387	3	729	4,872	3	603.48	689	DRIVEWAY DETNENT
6	Combine	12.02	3	729	46,871	2, 4, 5	----	----	PROPOSED COMBINED
2014-45.gpw					Return Period: 50 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

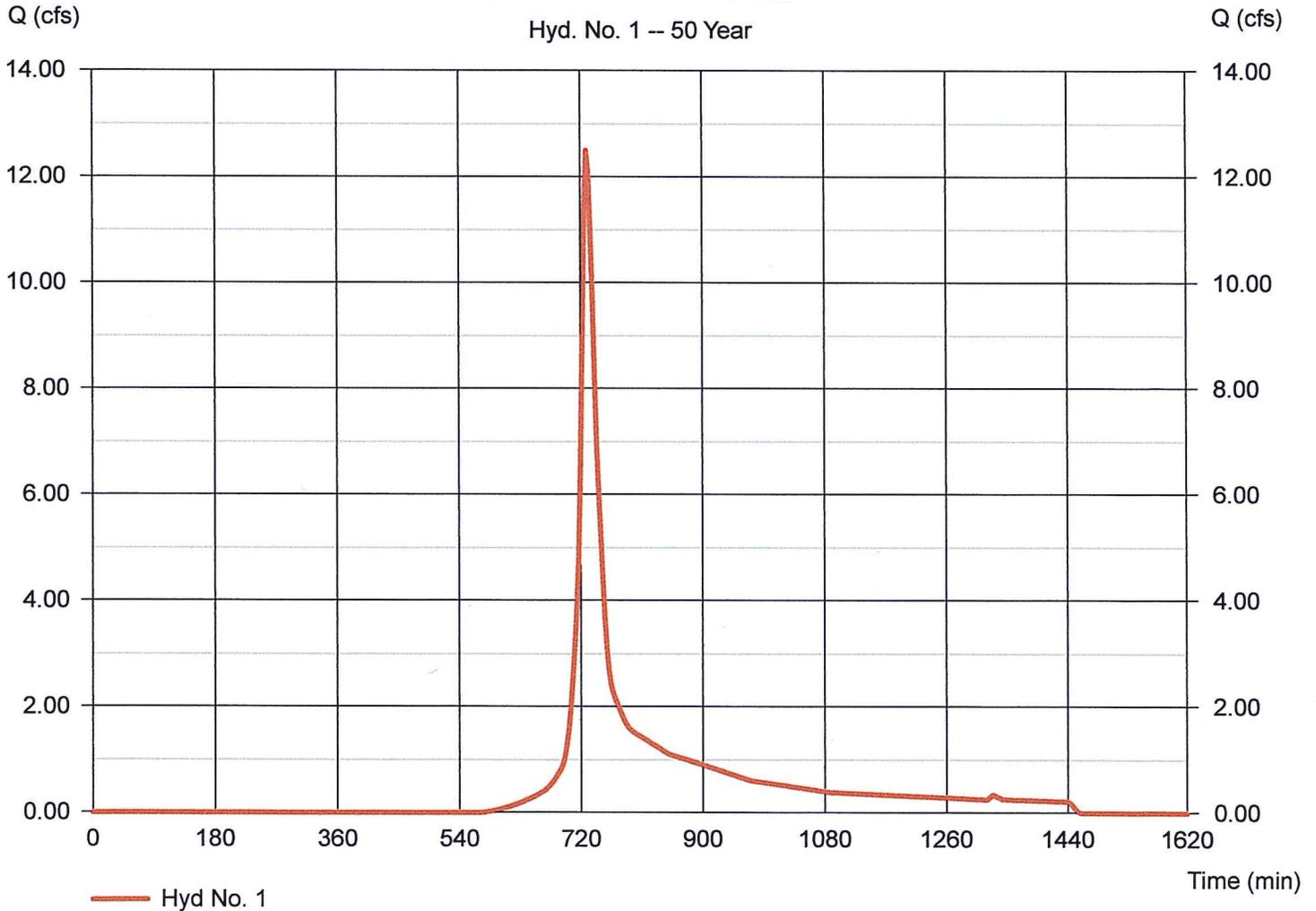
### EXISTING WATERSHED

Hydrograph type = SCS Runoff  
Storm frequency = 50 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 6.35 in  
Storm duration = 24 hrs

Peak discharge = 12.51 cfs  
Time to peak = 729 min  
Hyd. volume = 50,033 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.960 x 69) + (0.990 x 50)] / 5.100

### EXISTING WATERSHED



# Hydrograph Report

## Hyd. No. 2

### PROPOSED WATER SHED

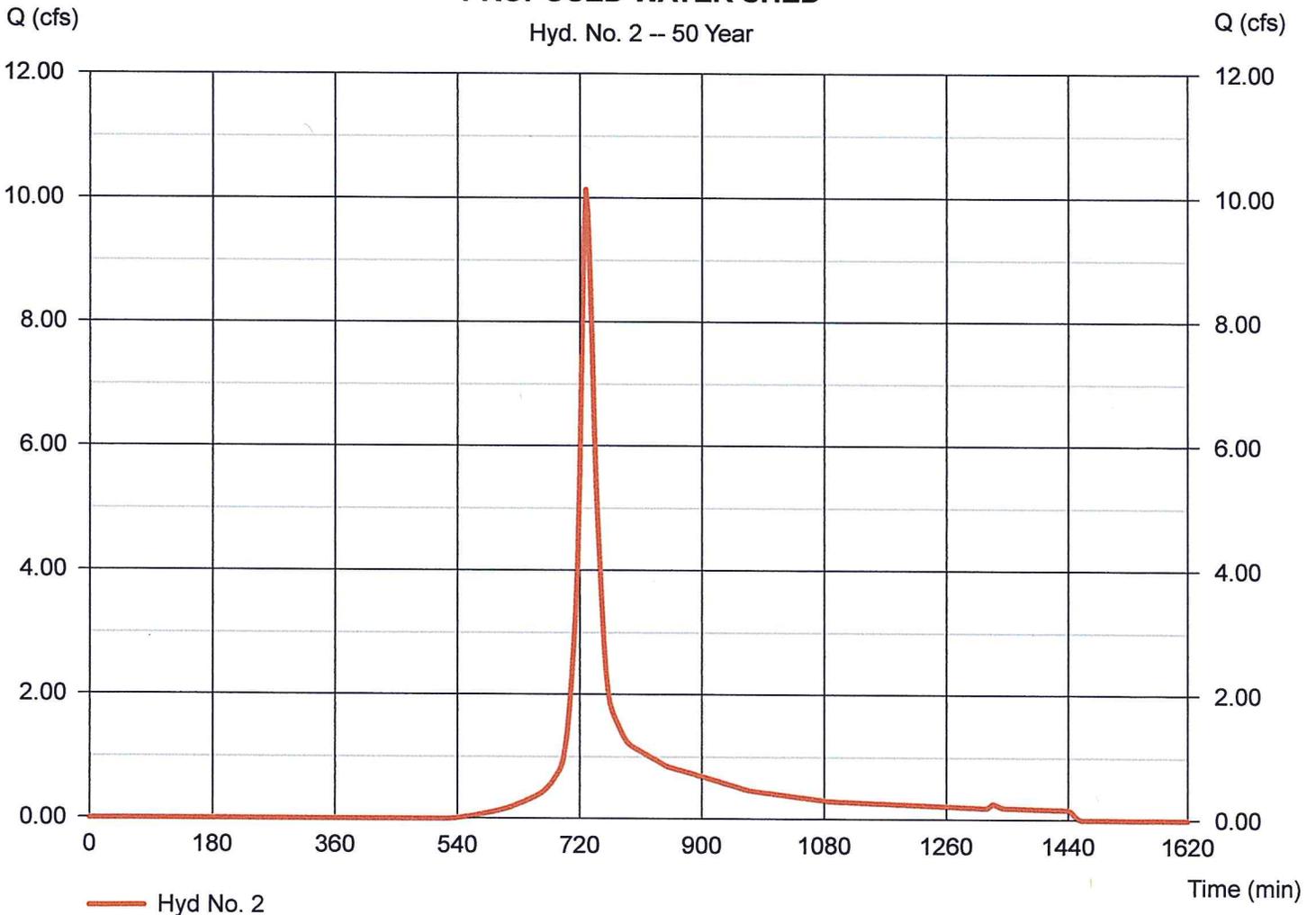
Hydrograph type = SCS Runoff  
Storm frequency = 50 yrs  
Time interval = 3 min  
Drainage area = 3.580 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 6.35 in  
Storm duration = 24 hrs

Peak discharge = 10.15 cfs  
Time to peak = 729 min  
Hyd. volume = 40,097 cuft  
Curve number = 70\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 13.80 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) =  $[(0.150 \times 98) + (3.430 \times 69)] / 3.580$

### PROPOSED WATER SHED

Hyd. No. 2 -- 50 Year



# Hydrograph Report

## Hyd. No. 3

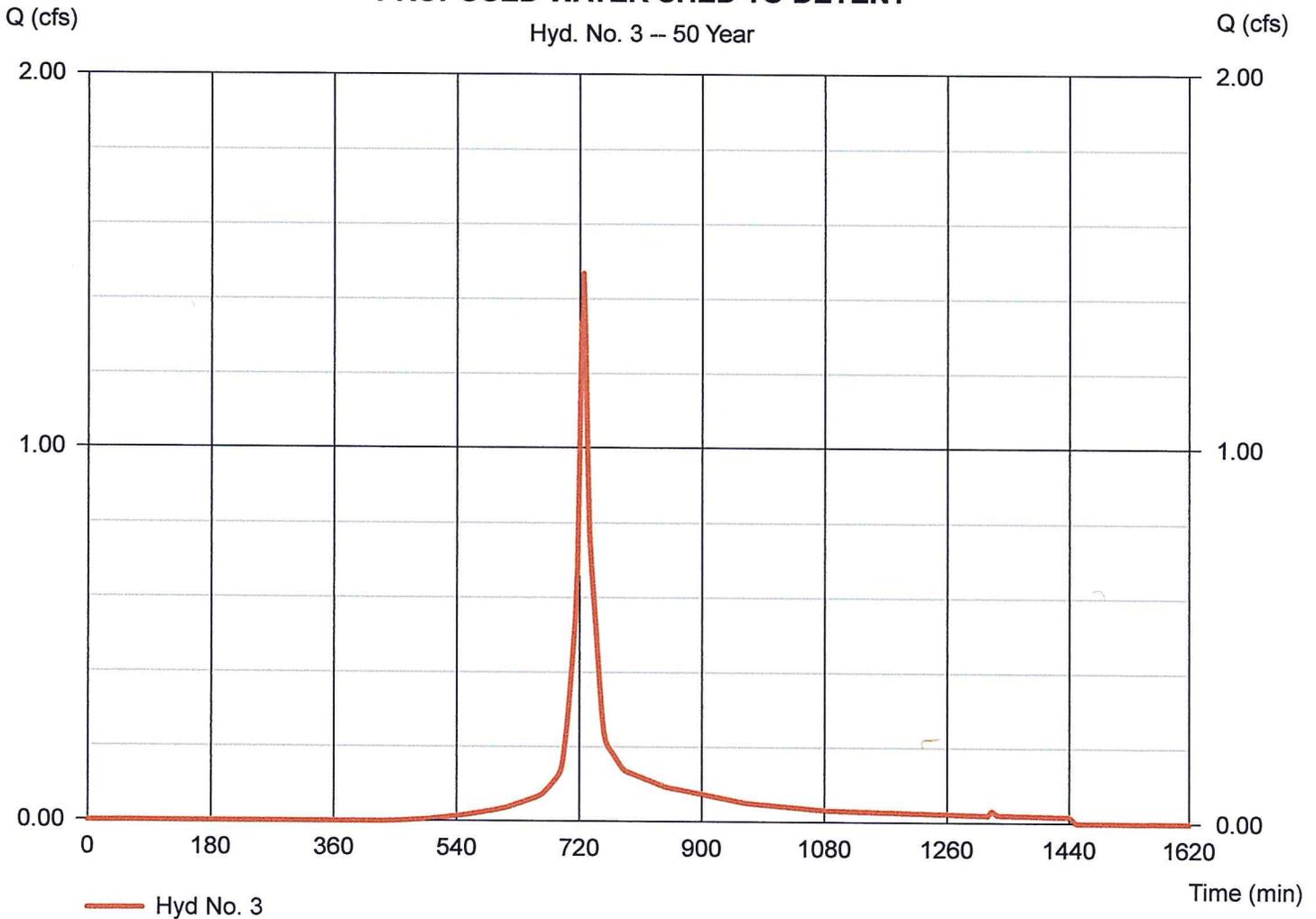
### PROPOSED WATER SHED TO DETENT

Hydrograph type = SCS Runoff  
Storm frequency = 50 yrs  
Time interval = 3 min  
Drainage area = 0.380 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 6.35 in  
Storm duration = 24 hrs

Peak discharge = 1.469 cfs  
Time to peak = 726 min  
Hyd. volume = 4,897 cuft  
Curve number = 77\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.110 x 98) + (0.270 x 69)] / 0.380

### PROPOSED WATER SHED TO DETENT



# Hydrograph Report

## Hyd. No. 4

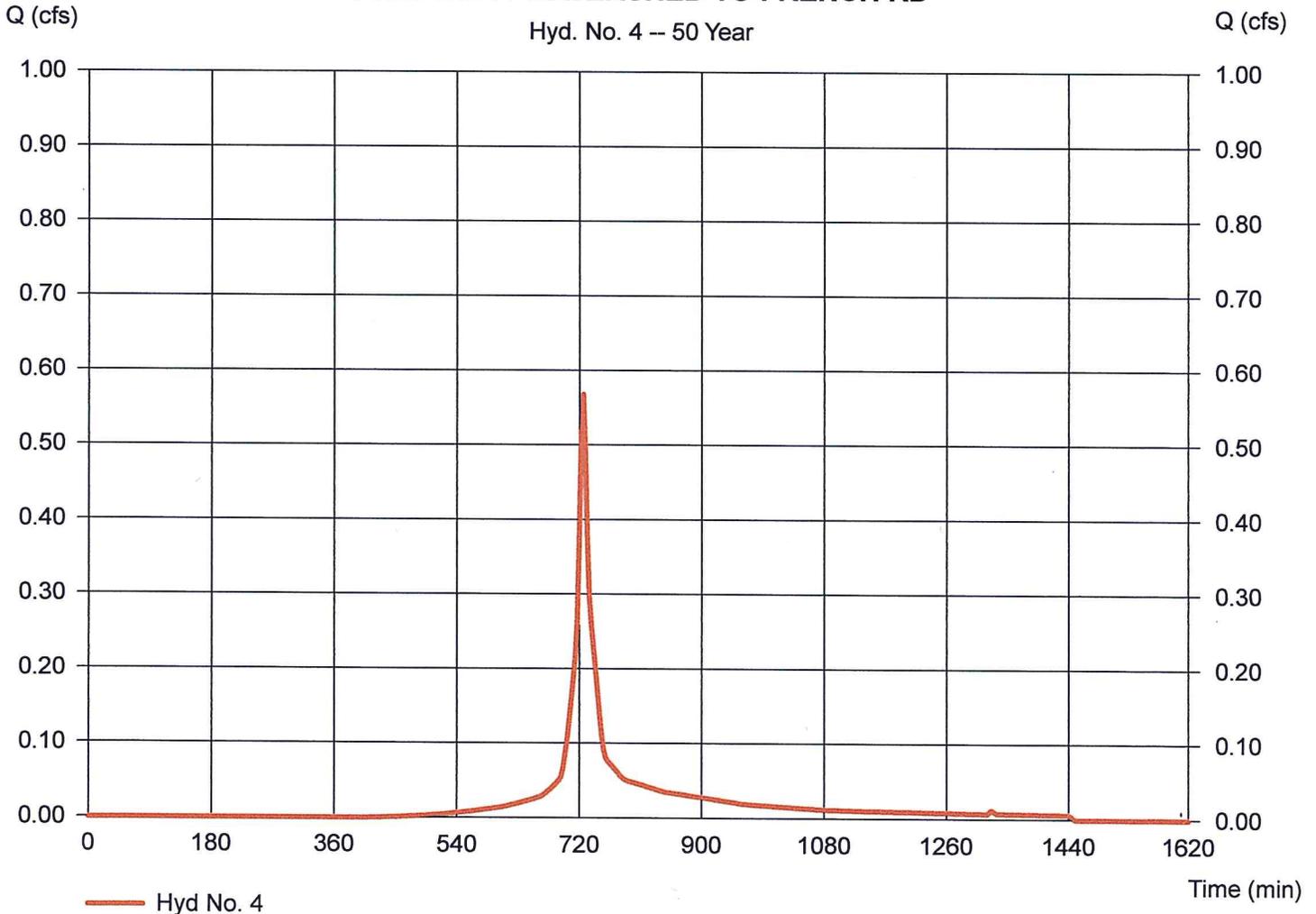
### PROPOSED WATERSHED TO FRENCH RD

Hydrograph type = SCS Runoff  
Storm frequency = 50 yrs  
Time interval = 3 min  
Drainage area = 0.140 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 6.35 in  
Storm duration = 24 hrs

Peak discharge = 0.569 cfs  
Time to peak = 726 min  
Hyd. volume = 1,903 cuft  
Curve number = 79\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.050 x 98) + (0.090 x 69)] / 0.140

### PROPOSED WATERSHED TO FRENCH RD



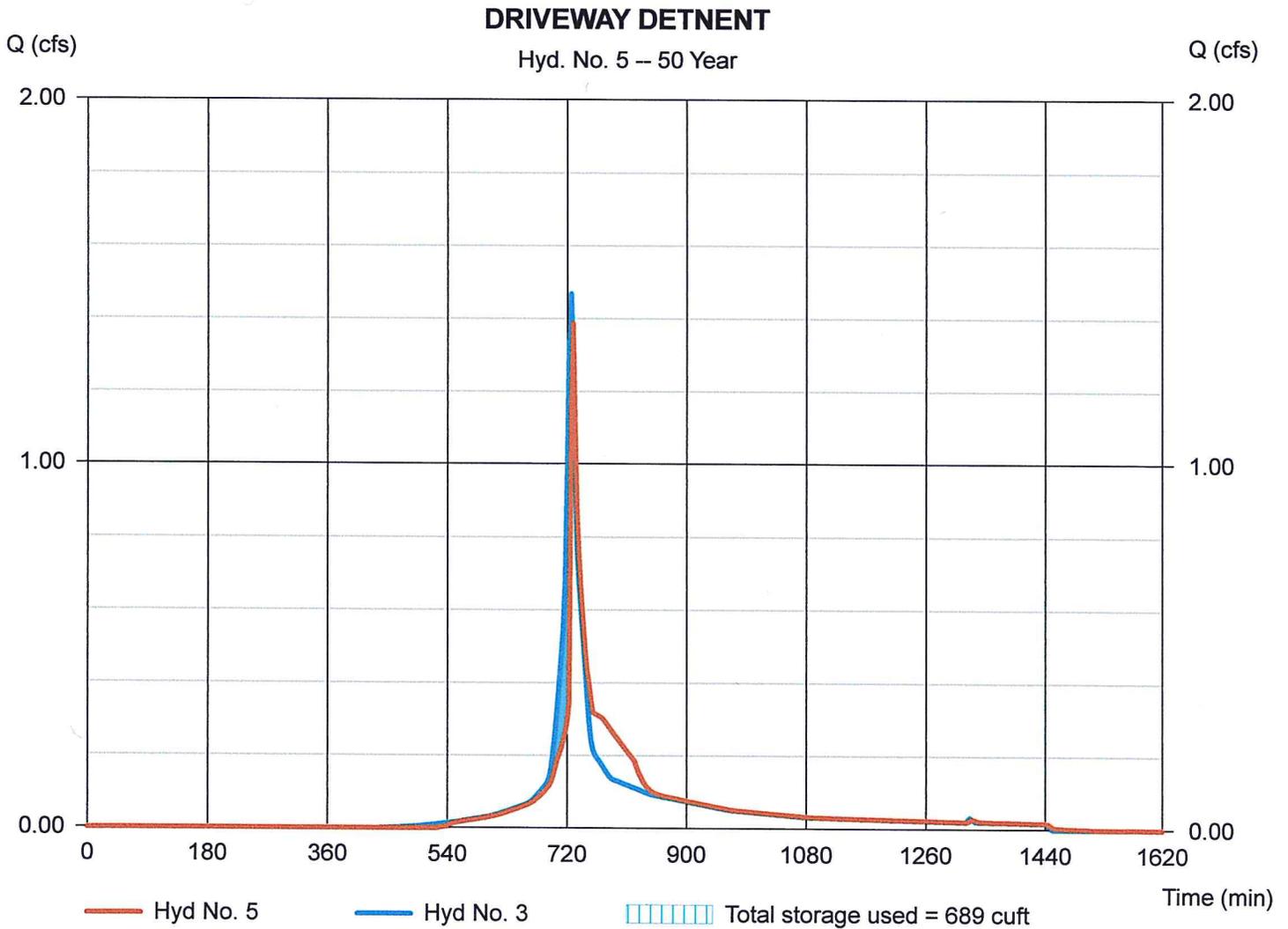
# Hydrograph Report

## Hyd. No. 5

### DRIVEWAY DETNENT

Hydrograph type	= Reservoir	Peak discharge	= 1.387 cfs
Storm frequency	= 50 yrs	Time to peak	= 729 min
Time interval	= 3 min	Hyd. volume	= 4,872 cuft
Inflow hyd. No.	= 3 - PROPOSED WATER SHED TO DETENT	Max. Elevation	= 603.48 ft
Reservoir name	= DRIVEWAY DETENT	Max. Storage	= 689 cuft

Storage Indication method used.



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

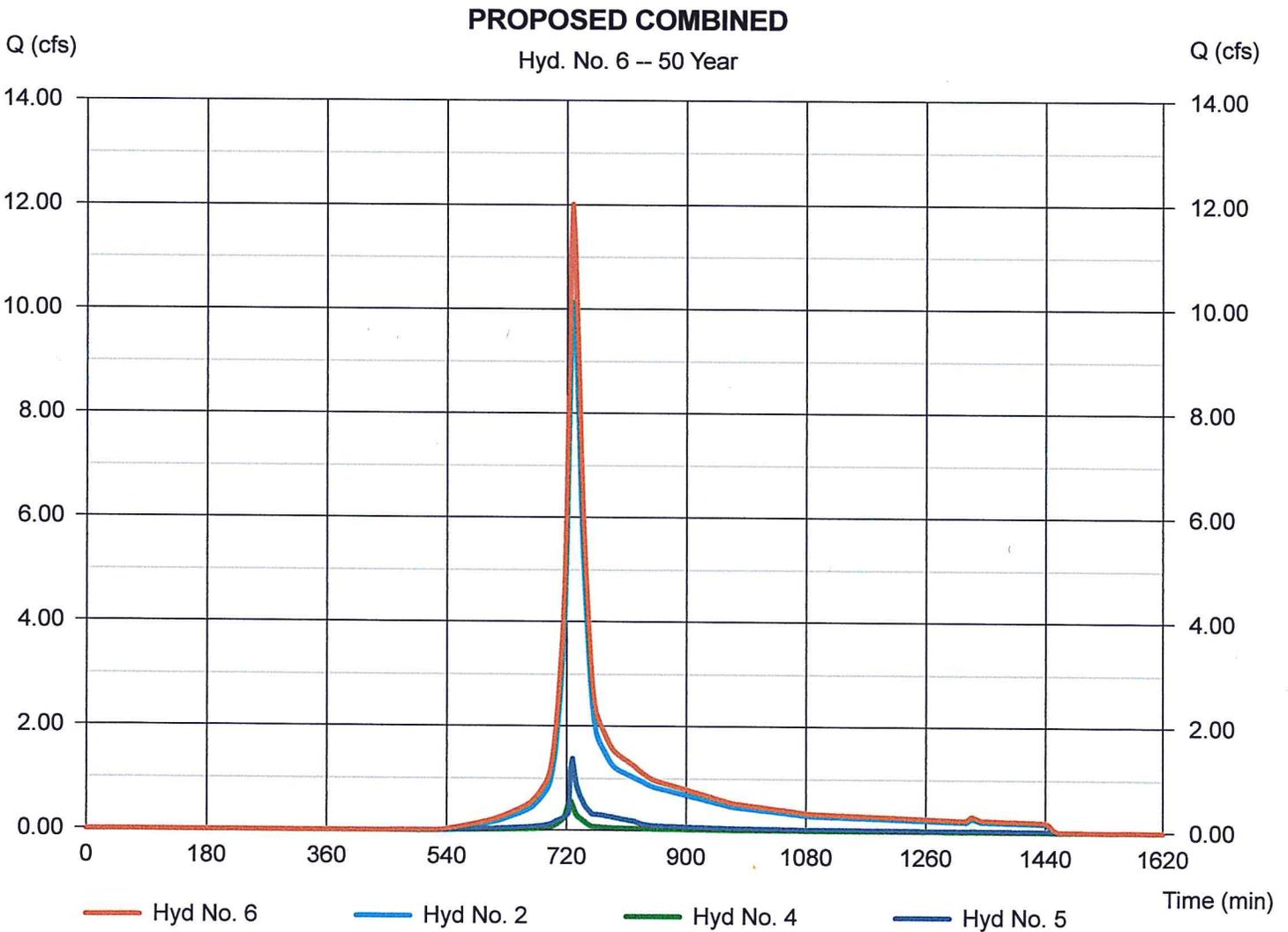
Friday, Aug 28, 2015

## Hyd. No. 6

### PROPOSED COMBINED

Hydrograph type = Combine  
Storm frequency = 50 yrs  
Time interval = 3 min  
Inflow hyds. = 2, 4, 5

Peak discharge = 12.02 cfs  
Time to peak = 729 min  
Hyd. volume = 46,871 cuft  
Contrib. drain. area = 3.720 ac



# Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.22

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	14.94	3	729	59,324	---	----	----	EXISTING WATERSHED
2	SCS Runoff	11.94	3	729	47,023	---	----	----	PROPOSED WATER SHED
3	SCS Runoff	1.689	3	726	5,646	---	----	----	PROPOSED WATER SHED TO DE
4	SCS Runoff	0.650	3	726	2,184	---	----	----	PROPOSED WATERSHED TO FRE
5	Reservoir	1.642	3	726	5,621	3	603.51	709	DRIVEWAY DETNENT
6	Combine	14.07	3	729	54,828	2, 4, 5	----	----	PROPOSED COMBINED
2014-45.gpw					Return Period: 100 Year			Friday, Aug 28, 2015	

# Hydrograph Report

## Hyd. No. 1

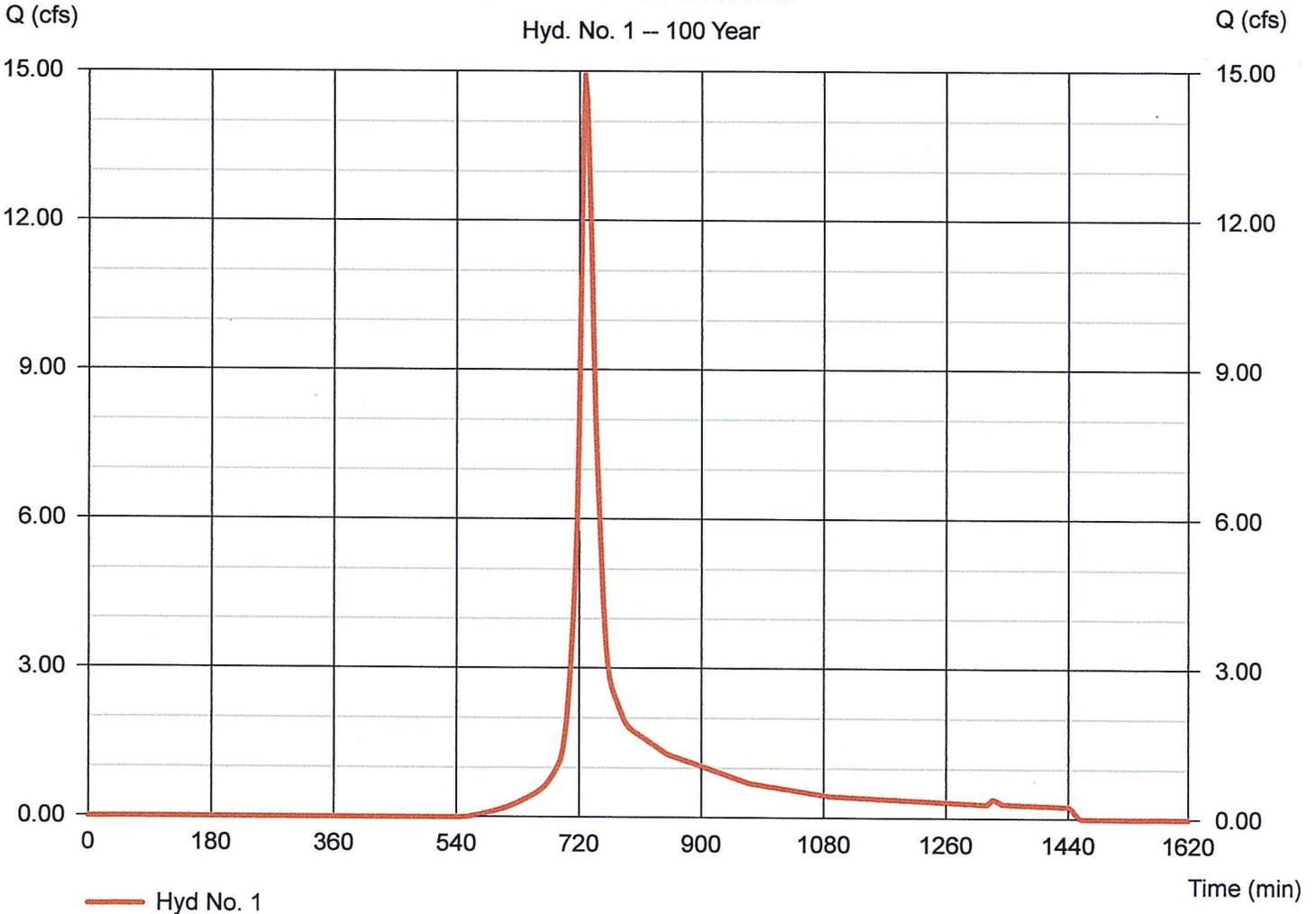
### EXISTING WATERSHED

Hydrograph type = SCS Runoff  
Storm frequency = 100 yrs  
Time interval = 3 min  
Drainage area = 5.100 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 7.00 in  
Storm duration = 24 hrs

Peak discharge = 14.94 cfs  
Time to peak = 729 min  
Hyd. volume = 59,324 cuft  
Curve number = 66\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 14.60 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) =  $[(0.150 \times 98) + (3.960 \times 69) + (0.990 \times 50)] / 5.100$

### EXISTING WATERSHED



# Hydrograph Report

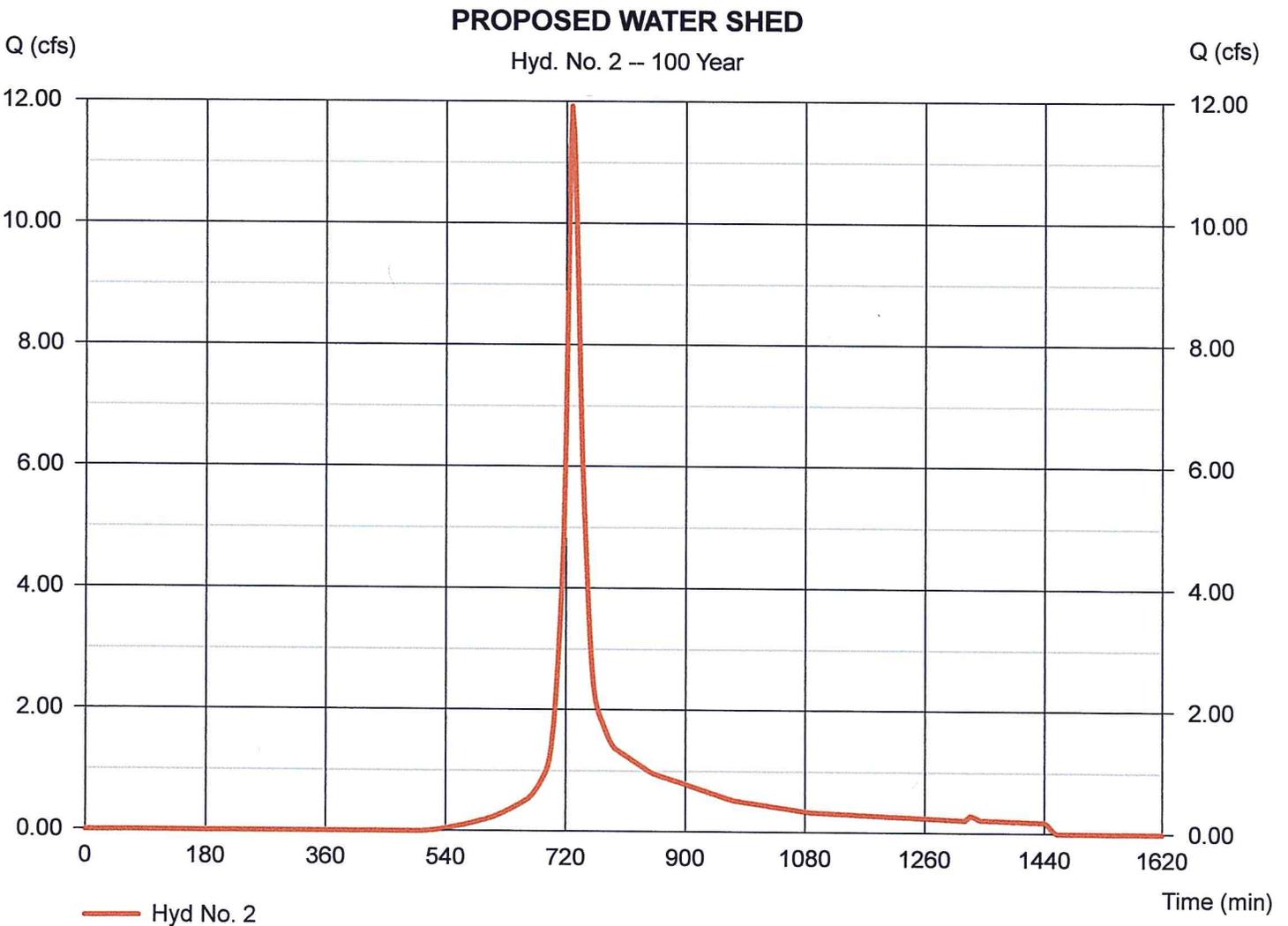
## Hyd. No. 2

### PROPOSED WATER SHED

Hydrograph type = SCS Runoff  
Storm frequency = 100 yrs  
Time interval = 3 min  
Drainage area = 3.580 ac  
Basin Slope = 0.0 %  
Tc method = TR55  
Total precip. = 7.00 in  
Storm duration = 24 hrs

Peak discharge = 11.94 cfs  
Time to peak = 729 min  
Hyd. volume = 47,023 cuft  
Curve number = 70\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 13.80 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.150 x 98) + (3.430 x 69)] / 3.580



# Hydrograph Report

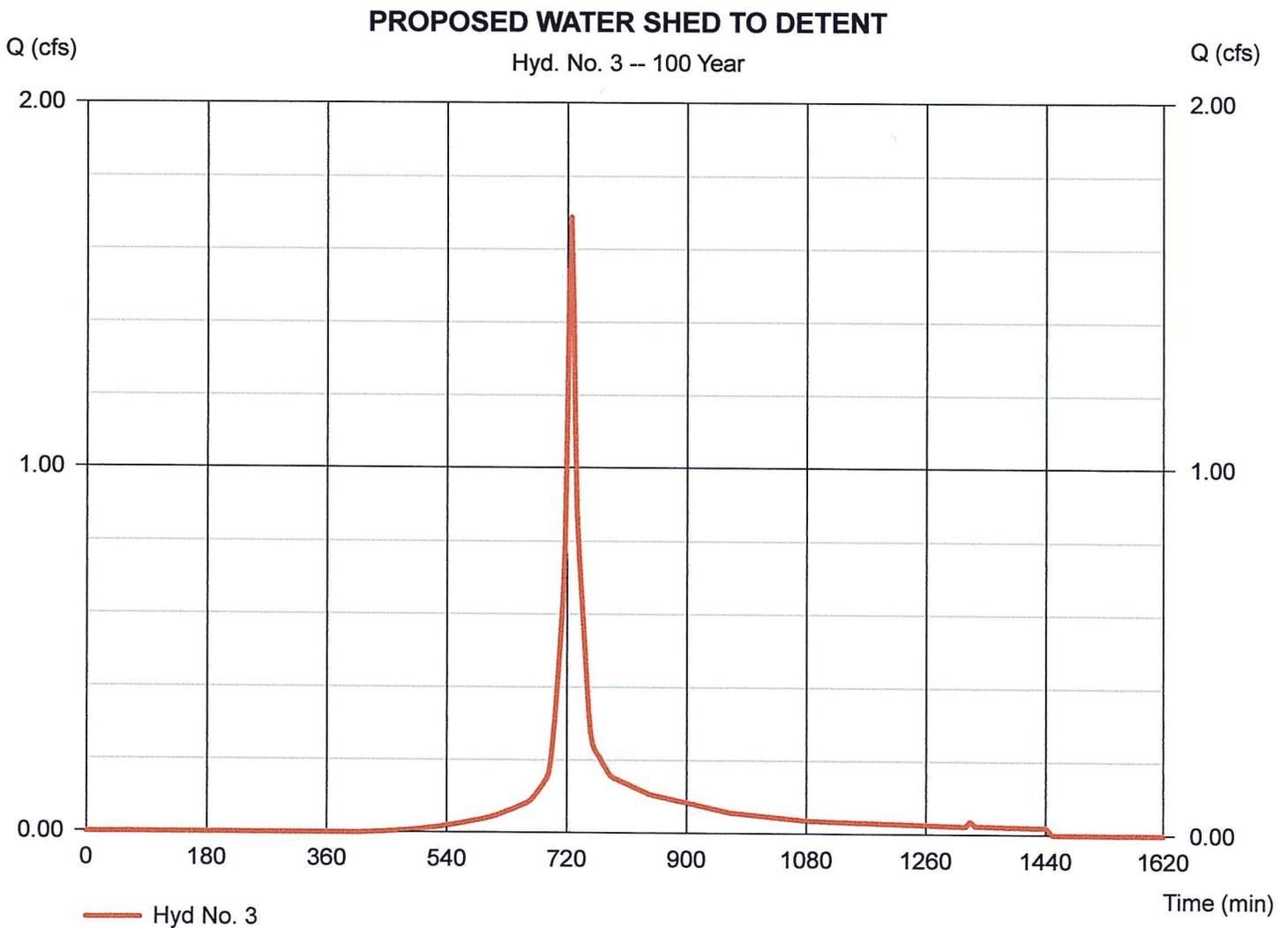
## Hyd. No. 3

### PROPOSED WATER SHED TO DETENT

Hydrograph type = SCS Runoff  
Storm frequency = 100 yrs  
Time interval = 3 min  
Drainage area = 0.380 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 7.00 in  
Storm duration = 24 hrs

Peak discharge = 1.689 cfs  
Time to peak = 726 min  
Hyd. volume = 5,646 cuft  
Curve number = 77\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.110 x 98) + (0.270 x 69)] / 0.380



# Hydrograph Report

## Hyd. No. 4

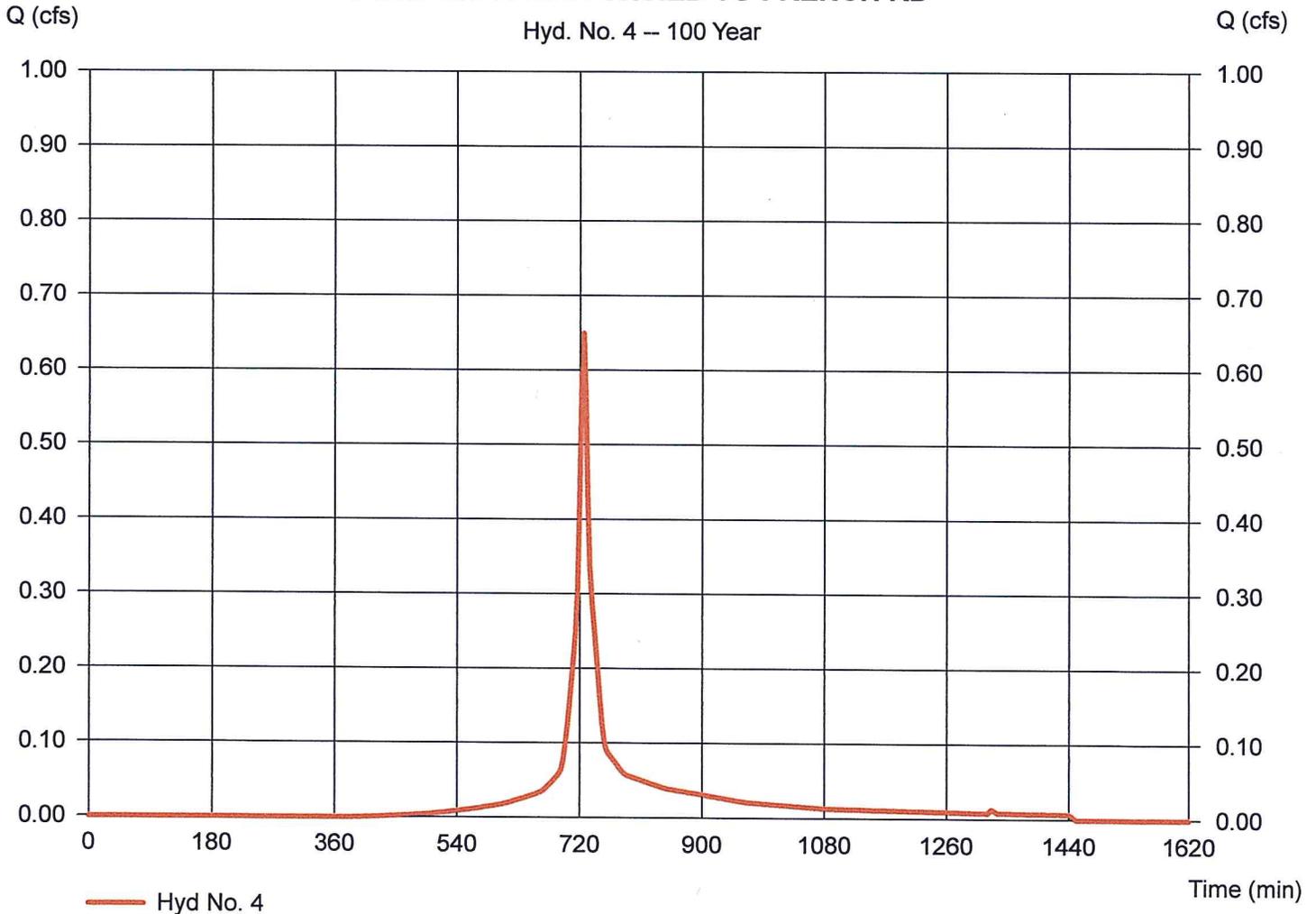
### PROPOSED WATERSHED TO FRENCH RD

Hydrograph type = SCS Runoff  
Storm frequency = 100 yrs  
Time interval = 3 min  
Drainage area = 0.140 ac  
Basin Slope = 0.0 %  
Tc method = USER  
Total precip. = 7.00 in  
Storm duration = 24 hrs

Peak discharge = 0.650 cfs  
Time to peak = 726 min  
Hyd. volume = 2,184 cuft  
Curve number = 79\*  
Hydraulic length = 0 ft  
Time of conc. (Tc) = 5.00 min  
Distribution = Type III  
Shape factor = 484

\* Composite (Area/CN) = [(0.050 x 98) + (0.090 x 69)] / 0.140

### PROPOSED WATERSHED TO FRENCH RD



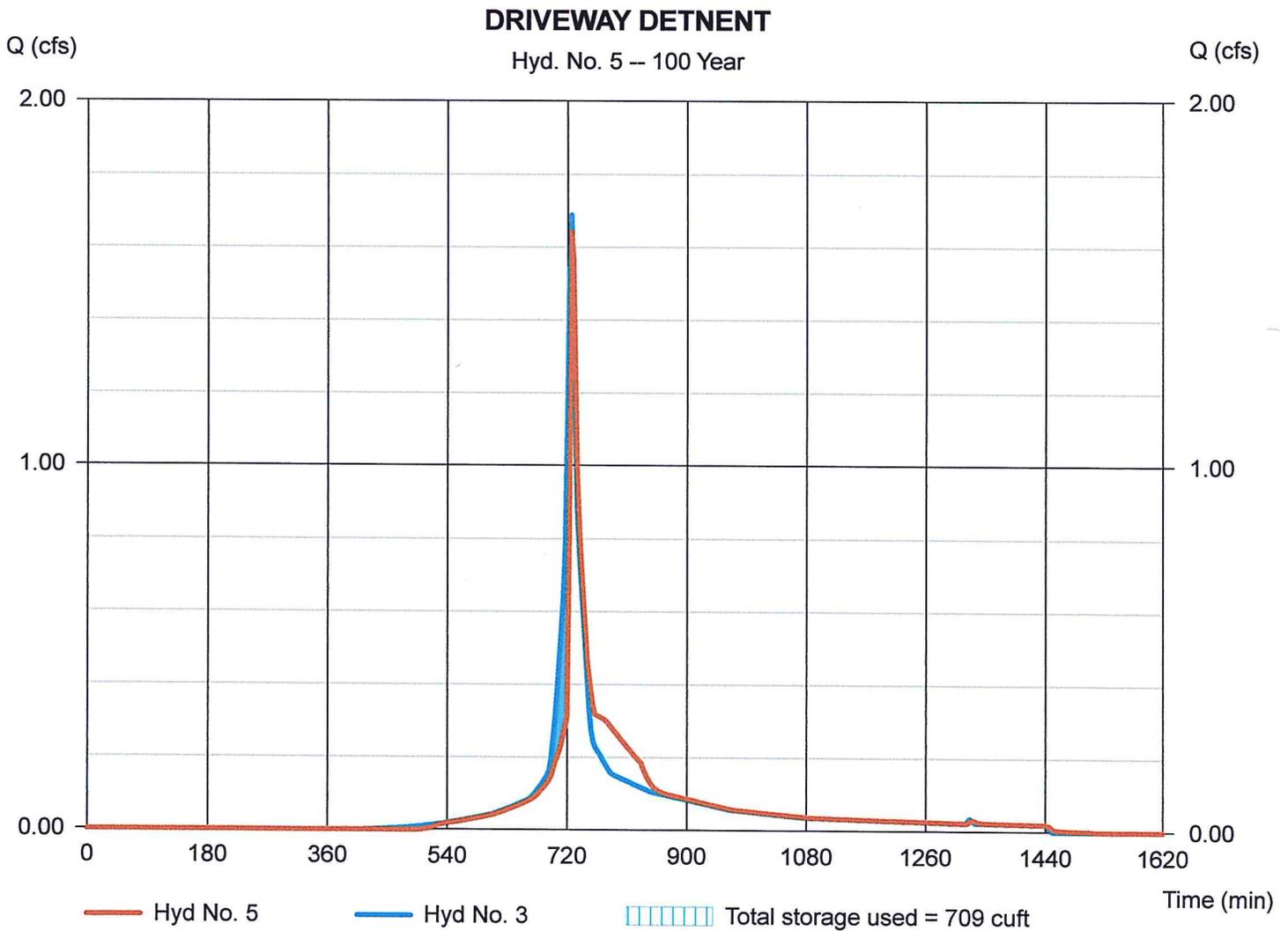
# Hydrograph Report

## Hyd. No. 5

### DRIVEWAY DETNENT

Hydrograph type	= Reservoir	Peak discharge	= 1.642 cfs
Storm frequency	= 100 yrs	Time to peak	= 726 min
Time interval	= 3 min	Hyd. volume	= 5,621 cuft
Inflow hyd. No.	= 3 - PROPOSED WATER SHED TO DETNENT	Max. Elevation	= 603.51 ft
Reservoir name	= DRIVEWAY DETNENT	Max. Storage	= 709 cuft

Storage Indication method used.



# Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

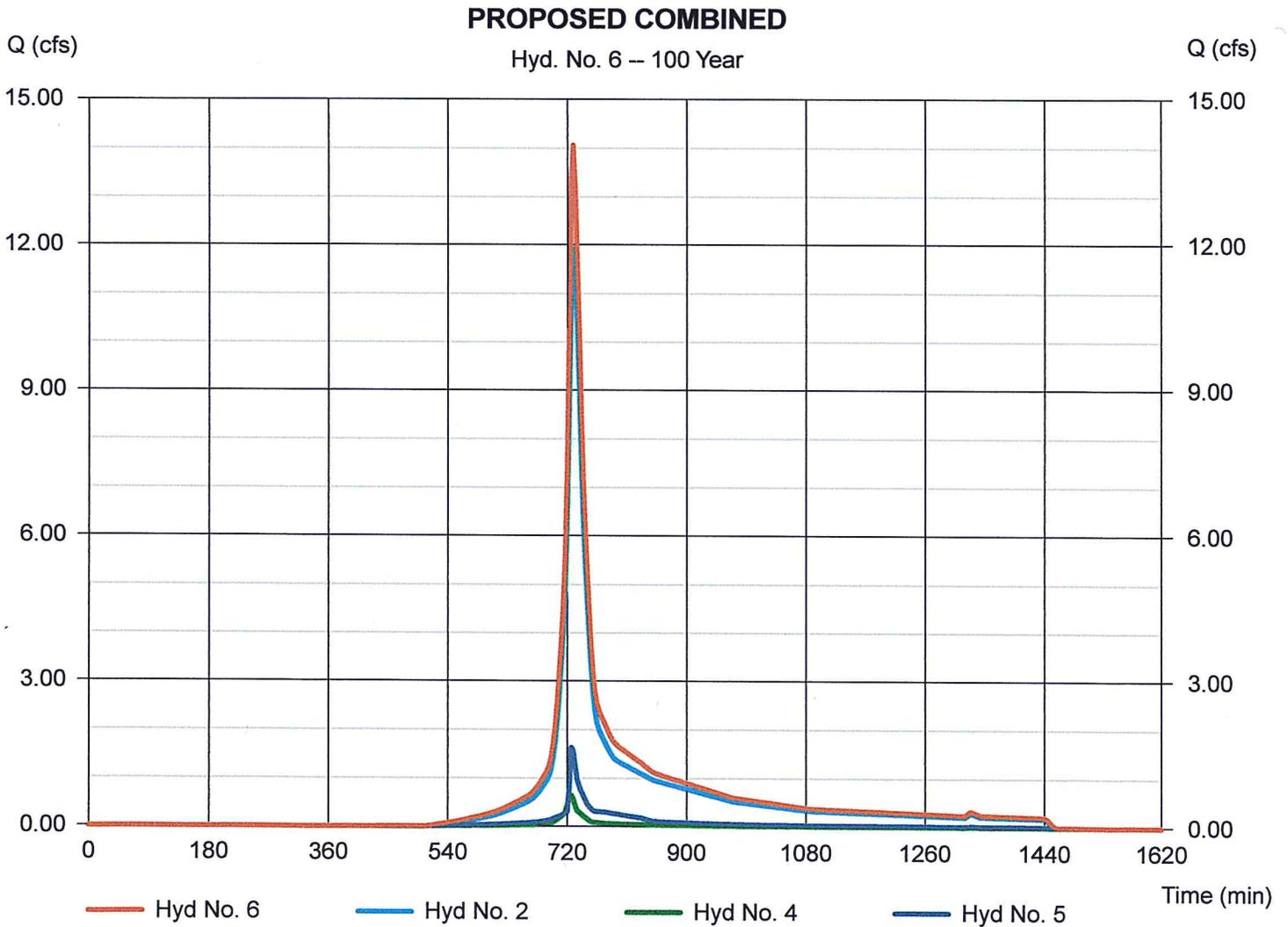
Friday, Aug 28, 2015

## Hyd. No. 6

### PROPOSED COMBINED

Hydrograph type = Combine  
Storm frequency = 100 yrs  
Time interval = 3 min  
Inflow hyds. = 2, 4, 5

Peak discharge = 14.07 cfs  
Time to peak = 729 min  
Hyd. volume = 54,828 cuft  
Contrib. drain. area = 3.720 ac



#### PROPOSED DRAINAGE SYSTEM CAPACITY CALCULATIONS:

The capacity of the proposed drainage system along French Rd has been analyzed for a 10 year return storm event using Hydraflow Storm Sewers computer software. The attached results demonstrate that the capacity of the proposed system is not exceeded in a 10 year storm event.

# Storm Sewer Tabulation

Station	To Line	Len (ft)	Drng Area		Rhoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
			Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
1	End	60.0	0.00	2.26	0.00	0.00	1.45	0.0	15.2	5.2	7.49	7.22	6.29	15	1.25	578.75	578.00	579.88	579.22	583.50	580.00	
2	1	120.0	2.26	2.26	0.64	1.45	1.45	15.0	15.0	5.2	7.53	18.87	8.32	15	8.54	590.50	580.25	591.59	580.99	599.75	583.50	

Project File: ANDERSON DRAINAGE SYSTEM.stm

Number of lines: 2

Run Date: 08-28-2015

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83; Return period = 10 Yrs.

# Storm Sewer Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns line No.
1		7.49	15 c	60.0	578.00	578.75	1.250	579.22	579.88	n/a	580.99 i	End
2		7.53	15 c	120.0	580.25	590.50	8.542	580.99	591.59	n/a	592.82 i	1

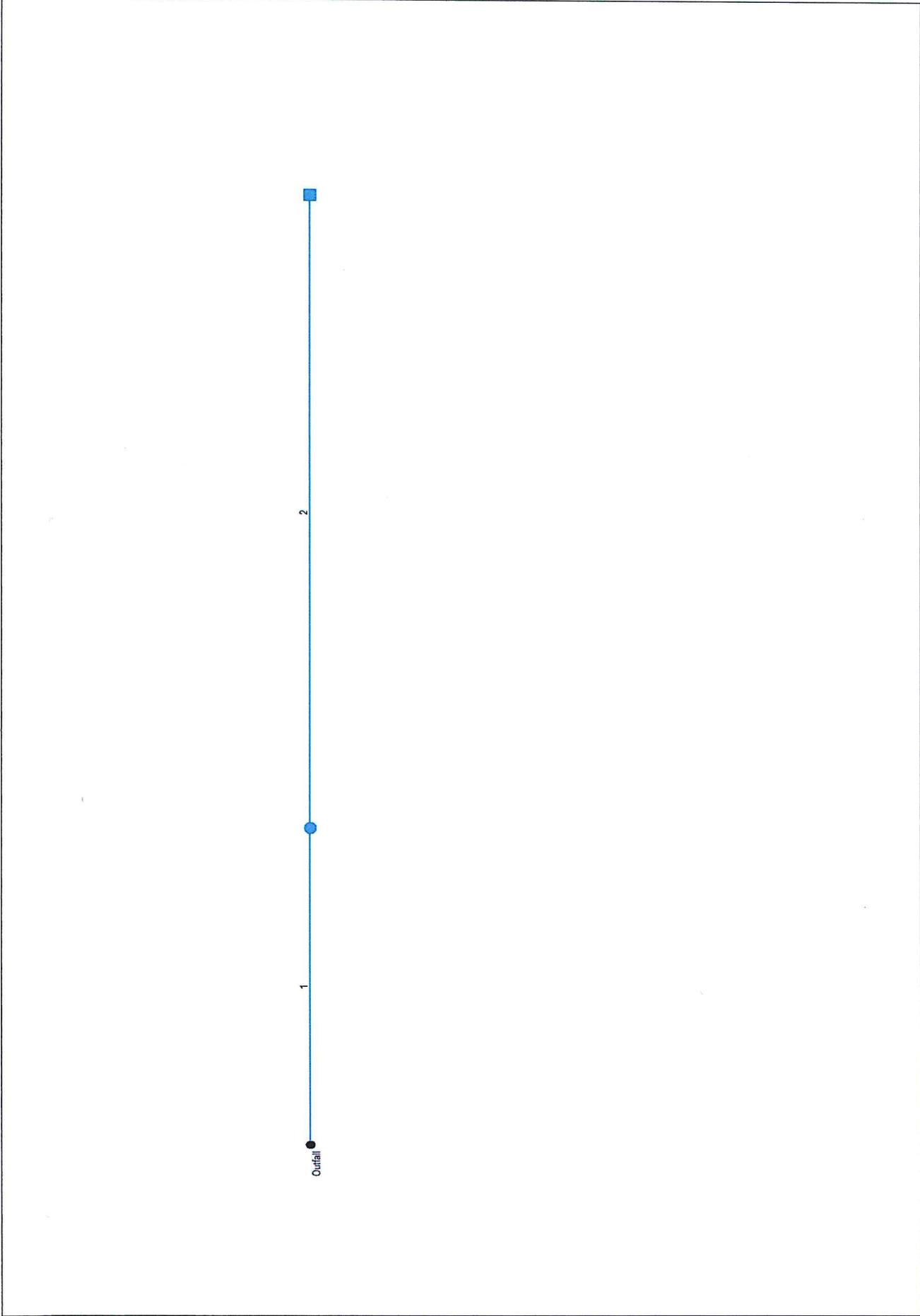
Project File: ANDERSON DRAINAGE SYSTEM.stm

Number of lines: 2

Run Date: 08-28-2015

NOTES: c = cir; e = ellip; b = box; Return period = 10 Yrs. ; i - Inlet control.

# Hydraflow Plan View

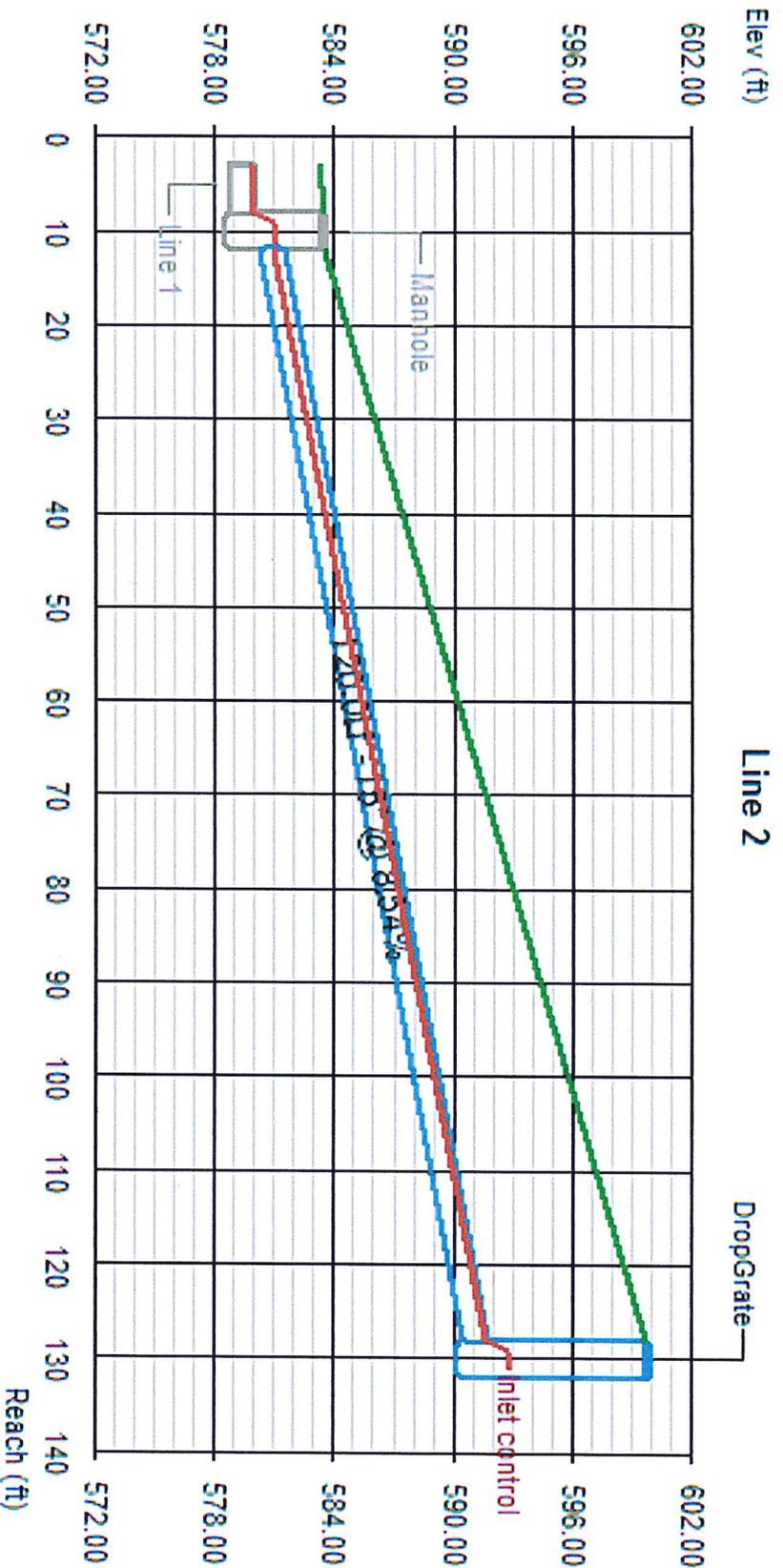


Project File: ANDERSON DRAINAGE SYSTEM.stm

No. Lines: 2

08-28-2015

# Line Profile (Line 2)



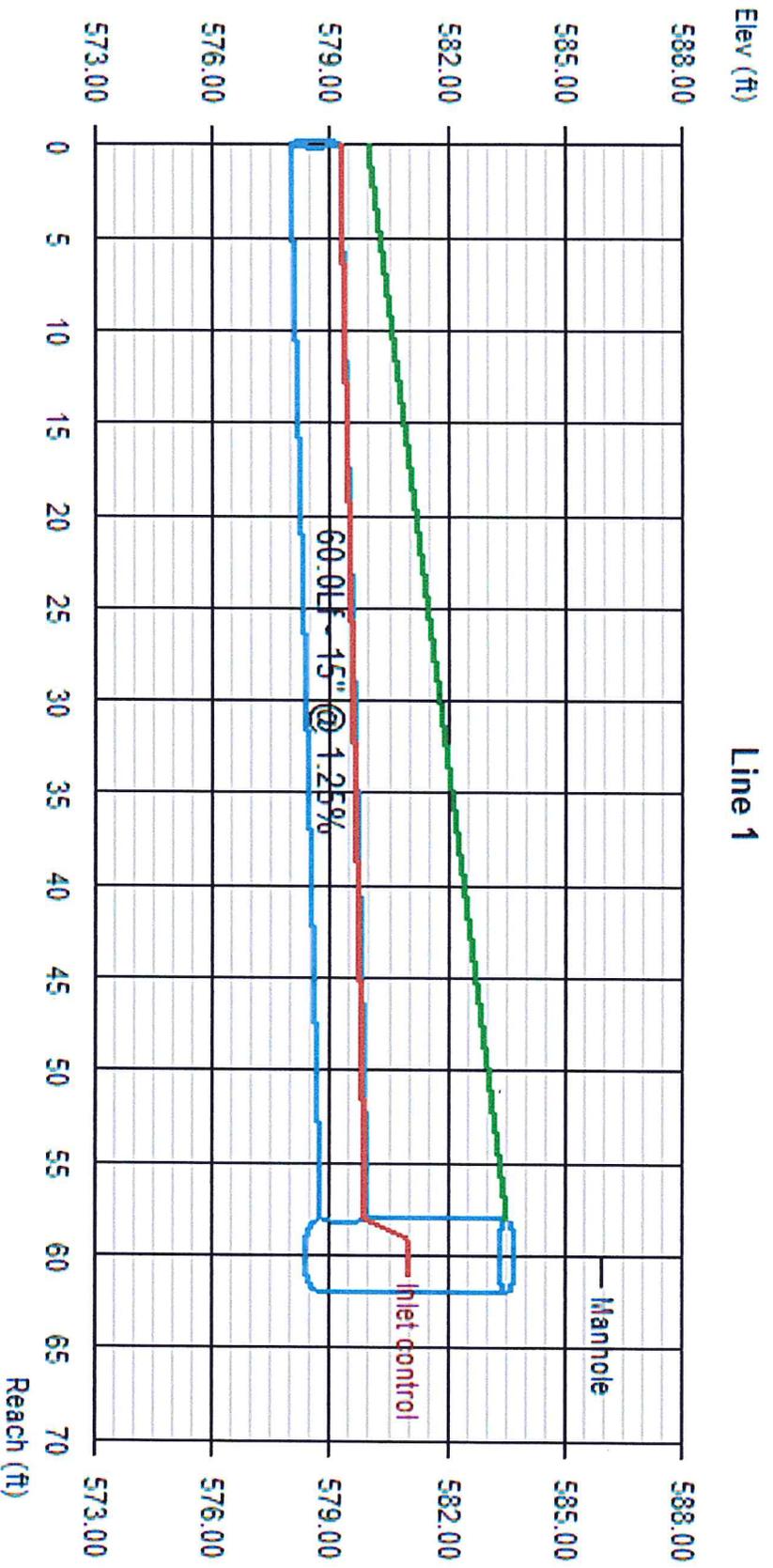
Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
2	7.53	580.25	590.50	0.74	1.09	2.32	580.99	591.59	592.82 i	10.02	6.61	2.00	8.00

Project File:

No. Lines: 2

Run Date: 08-28-2015

# Line Profile (Line 1)



Line #	Q (cfs)	Invert Elevation		Depth of Flow			Hydraulic Grade Line			Velocity		Cover	
		Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Hw (ft)	Dn (ft)	Up (ft)	Jnct (ft)	Dn (ft/s)	Up (ft/s)	Dn (ft)	Up (ft)
1	7.49	578.00	578.75	1.22	1.13	2.24	579.22	579.88	580.99 i	6.14	6.43	0.75	3.50

Project File:

No. Lines: 2

Run Date: 08-28-2015

**BOLTON PLANNING & ZONING COMMISSION**  
**SPECIAL MEETING**  
**7:00 PM, Thursday, August 6, 2015**  
**Bolton Town Hall, 222 Bolton Center Road**

**RECEIVED**

**AUG 13 2015**

Town Clerk of Bolton

**Minutes & Motions**

**Members Present:** Chairman Eric Luntta, Carl Preuss, Jeffrey Scala, Arlene Fiano, Adam Teller, Nancy Silverstein (alternate seated for Thomas Manning), Christopher Davey (alternate seated for James Cropley), Neal Kerr (alternate)

**Members Excused:** Thomas Manning, James Cropley

**Staff Present:** Glen Chalder, Planimetrics, Patrice Carson, AICP, Director of Community Development, members of the Economic Development Committee, Sarah Benitez, Recording Secretary

**Others Present:**

**1. Call to Order:** Chairman E. Luntta called the meeting to order at 7:06 pm.

**2. DISCUSSION: Continued Review of First Draft of the Plan of Conservation and Development**

The PZC reviewed the POCD draft page by page. They corrected typos, made minor changes to phrasing, and discussed map corrections.

**3. Public Comment:**

Cathy Teller spoke on behalf of the Economic Development Commission. She expressed concern over the limited discussion of the EDC and relevant studies in the POCD, and the numerous policies and tasks listing the EDC as leader. She asked for a more robust EDC section and discussion of studies. The PZC agreed and also changed the EDC from leader to a partner for several policies and tasks.

**4. Action Regarding Public Hearing:**

A. Teller MOVED to schedule a Public Hearing on the proposed Plan of Conservation and Development for 7:00 pm, October 21, 2015, at a suitable location, and to direct town staff to distribute the requisite documents to the appropriate officials within statutory requirements. E. Luntta SECONDED. MOTION PASSED 8:0:0.

**5. Adjournment:** E. Luntta moved to adjourn. J. Scala seconded. The meeting adjourned at 9:30 pm.

Respectfully submitted,

  
Sarah Benitez, Recording Secretary

PLEASE SEE MINUTES OF SUBSEQUENT MEETINGS FOR APPROVAL OF THESE MINUTES AND ANY CORRECTIONS HERETO.

**BOLTON PLANNING & ZONING COMMISSION**  
**SPECIAL MEETING**  
**7:30 PM, Wednesday, August 12, 2015**  
**Bolton Town Hall, 222 Bolton Center Road**

**RECEIVED**  
**AUG 26 2015**  
Town Clerk of Bolton

**Minutes & Motions**

**Members Present:** Chairman Eric Luntta, Carl Preuss, James Cropley, Jeffrey Scala, Arlene Fiano, Adam Teller, Nancy Silverstein (alternate), Neal Kerr (alternate)

**Members Excused:** Thomas Manning, Christopher Davey (alternate)

**Staff Present:** Patrice Carson, AICP, Director of Community Development, Jim Rupert, Zoning Enforcement Officer, Administrative Officer Joyce Stille, First Selectman Robert Morra, Sarah Benitez, Recording Secretary

**Others Present:** Several members of the public.

**1. Call to Order:** Chairman Eric Luntta called the meeting to order at 7:30 p.m. N. Silverstein was seated for T. Manning.

**2. 8-24 Referral: Cisterns and Dry Hydrant Town-wide Plan:**

First Selectman Robert Morra presented a list of proposed locations for hydrants and cisterns to be put in over the next few years. The PZC asked questions and discussed the plan. R. Morra said the schedule was determined by the budget, which would allow for three dry hydrants in the fall and the cistern after the school year ends. Patrice Carson, Land Use Officer, said that Fire Marshal Ray Walker and the Fire Commission are on board with the plan. C. Preuss MOVED to APPROVE the plan for water supply locations for fire protection as presented by the First Selectman and Administrative Officer of the Town of Bolton, and recommend the same to the Board of Selectmen. J. Scala SECONDED. Motion passed 8:0:0.

**3. PUBLIC HEARINGS**

**a. ReSUBDIVISION APPLICATION: 1-Lot, 61 French Road, William Anderson/Nancy Varca**

The public hearing began at 7:45 p.m. P. Carson read the notices of public hearing. A. Teller recused himself from the Commission at 7:48 p.m. N. Kerr was seated for A. Teller.

William Anderson, 77 French Road, asked to reschedule and give the presentation at a later time since his staff was unable to be present. The PZC said a continuation might be granted but questions and comments must be heard as the public hearing was already in session.

PZC and Town Staff Questions and Comments:

P. Carson and J. Scala asked what would be offered for Open Space. W. Anderson said he would like to pay the fee in lieu. Fee acceptance would be referred to the Open Space Committee. The PZC requested that an appraisal be done before the next meeting as it would be the basis for the fee. W. Anderson

requested to use Bob Stewart as the appraiser and the Commission approved. J. Scala asked for a scaleable digital file of the proposal. E. Luntta opened the Hearing to the public with the reminder that there was a significant amount of missing information due to the rescheduling of the presentation.

Residents' Questions and Comments:

Richard Treat, 8 Lyman Road, spoke on behalf of the Bolton Land Trust, which owns land across the street from the properties in question. He presented as a rebutter, asking W. Anderson to plan to fully review drainage information in the presentation for those living downhill from those properties.

Maureen Johnson and Kim Gonder, 57 French Road, asked for a definition of the term "irregular lot". The PZC referred them to section 11 F in the Zoning Regulations available on the town website.

E. Luntta MOVED to CONTINUE the Public Hearing to Wednesday, September 9, 2015, at Town Hall, 222 Bolton Center Road. J. Cropley SECONDED. MOTION CARRIED 7:0:0.

A. Teller rejoined the Commission at 8:10 p.m.

**b. APPLICATION: Zoning Regulation Amendments to Section 6A.10 for the Keeping of Livestock & Poultry, Bolton PZC**

PZC and Town Staff Questions and Comments:

P. Carson noted that regulation changes have to go to CROCG, and a response had been received. There are no objections from CROCG or regional towns. A. Teller gave some background on the regulation change for the public. An issue had risen between residents in regard to the existing regulation. The staff and town believed that unclear regulations were part of the issue. The PZC aimed to make regulations clearer; more permissive in regard to smaller, more common livestock such as chickens, and less permissive in regard to large livestock. In presenting the redrafted regulations, they were now looking for input on the reasonability on the regulations and thresholds therein.

Residents' Questions and Comments:

R. Treat, 8 Lyman Road, asked A. Teller to clarify the meaning of making regulations more permissive. A. Teller responded that they specifically targeted keeping of chickens on residential property; in other respects the regulations were more restrictive.

William Anderson, 77 French Road, asked what "keeping of domestic livestock" meant and why it was removed. A. Teller said it was unclear and thus unhelpful. W. Anderson was also concerned that the redrafted regulation would unfairly impact existing farms, citing that the State Department of Agriculture had guidelines for farming but gave authority to local zoning authorities in determining farm regulation. He felt the new regulatory language did not have provisions for the protection of farms, and that it would restrict farm development, coop location, etc. E. Luntta, J. Scala, and other PZC members responded that farms were addressed under a different set of regulations and the redrafted ones did not alter them. Even if it were a problem for farmers, they could seek a site plan review through J. Rupert (Zoning Enforcement Officer), or a variance from the Zoning Board of Appeals.

R. Morra, 15 Tinker Pond Road, said he knew farms were exempt in the above issues. His concern was that they might not be exempt from the 125-foot setbacks, which would not allow use of good pasture located closer to the road. The PZC discussed amending the regulation and agreed to distinguish between structures in the 125-foot setbacks, which are prohibited, and pasturing of animals, which they thought appropriate.

Ann Pullo, 115 French Road, expressed support for the separation between larger livestock, such as cows, and chickens. She thought chickens benefitted neighborhoods and helped to control ticks.

J. B. Pullo, 115 French Road, was concerned that more restrictive regulations would prevent his keeping a rooster. The PZC said his lot, being two acres, would allow him to keep his rooster.

Ann Pullo, 115 French Road, asked about the general direction of the town. She said Bolton had always been a farming community, but was now turning into a bedroom community. She wanted to know whether the PZC intended to support Bolton as a farming community in Bolton or take it in a more urban direction. E. Luntta said the Plan of Conservation Development would likely address her concerns there and advised her to come to the POCD Public Hearing in October to see what the town and its residents want.

A. Teller MOVED to CLOSE the public hearing. J. Cropley SECONDED. Motion CARRIED 8:0:0.

The hearing closed at 9:06 p.m. The regular meeting was opened at 9:06 p.m.

#### **4. Approval of Minutes**

**June 10, 2015 Regular Meeting Minutes** – A. Teller MOVED to APPROVE. E. Luntta SECONDED. MOTION CARRIED 5:0:3, with J. Cropley, J. Scala, and A. Teller abstaining.

**July 8, 2015 Regular Meeting Minutes** – N. Silverstein was unseated for T. Manning. N. Kerr was seated for T. Manning. C. Preuss MOVED to APPROVE with the corrected spelling of “Benedict.” J. Scala SECONDED. MOTION CARRIED 5:0:3, J. Cropley, E. Luntta, and A. Teller abstaining.

**July 22, 2015 Special Meeting Minutes** – N. Kerr was unseated for T. Manning. N. Silverstein was seated for T. Manning. A. Teller MOVED to APPROVE. A. Fiano SECONDED. MOTION CARRIED 6:0:2, C. Preuss and J. Scala abstaining.

#### **5. Residents’ Forum:**

R. Treat, 8 Lyman Road, asked if there was any Open Space donated or fee in lieu paid in the Bakersfield subdivision on the southeast corner of Hebron Road and School Road. A. Fiano said there was an easement given on the brook. The town was given land around the brook so it can maintain the river bank and drainage. A fee in lieu was paid in addition to this.

#### **6. Report of the Zoning Enforcement Officer:**

J. Rupert reported that he was working to get information on livestock kept at 365 West Street. Munson’s is remodeling their sales floor and will be closed for five days in August.

#### **7. Old Business:**

- a. **DISCUSSION/POSSIBLE DECISION:** ReSubdivision Application , 1-Lot, 61 French Road, William Anderson/Nancy Varca  
J. Scala MOVED to TABLE the discussion. J. Cropley SECONDED and then withdrew second as a motion was unnecessary. No action taken.
- b. **DISCUSSION/POSSIBLE DECISION:** Zoning Regulation Amendments to Section 6A.10 for the Keeping of Livestock & Poultry, Bolton PZC  
Teller MOVED to AMEND sections 6A.10 of the Bolton Zoning Regulations regarding the keeping of livestock and poultry by striking the current Section 6A.10 and inserting in lieu thereof the draft 6A.10a, 10b and 10c in the form presented at the public hearing dated June 10, 2015 with the following changes:  
Paragraph d. of Section 6A.10a striking the word 'areas,' and inserting the words '(other than fences under 8 feet high)' after the word 'structures', striking the ',' after the words 'in keeping', and striking the words 'and pasture', and adding the word 'and' between the words 'keeping housing'  
for the reasons presented at the public hearing including clarification of the regulations so that it's understandable and clear allowing residents to have chickens as of right as an accessory to residential uses which seems to be something more common in town, and in other respects tightening the regulations for keeping of larger amounts of poultry and livestock. J. Cropley SECONDED. MOTION CARRIED 8:0:0. Teller MOVED that the regulation become effective on September 1, 2015. J. Cropley SECONDED. MOTION CARRIED 8:0:0.

**8. New Business:**

- a. **APPLICATION: Drive-through Regulation Amendment: Ted & Joyce Moran, 199 Hop River Road**  
A. Teller MOVED to ACCEPT the application and schedule a Public Hearing on October 14, 2015, at 7:00 p.m., at Town Hall, 222 Bolton Center Road. J. Cropley SECONDED. MOTION CARRIED 8:0:0.

**9. DISCUSSION: Plan of Conservation and Development:**

P. Carson distributed copies of the complete draft, which is also posted on the town website. The POCD will be referred to CROCG and the Public Hearing is scheduled for October 21, 2015.

**10. Correspondence:** None.

**11. Adjournment:** J. Scala MOVED to ADJOURN. J. Cropley SECONDED. The meeting adjourned at 10:01 p.m.

Respectfully submitted,



Sarah Benitez

PLEASE SEE MINUTES OF SUBSEQUENT MEETINGS FOR APPROVAL OF THESE MINUTES AND ANY CORRECTIONS HERETO.



*Planners & Commissioners...*

**YOU'RE INVITED!**



**Dear Town Planners and Commissioners,**

As you may have heard, the Eastern Highlands Health District's Community Health Action Response Team (CHART) coalition is in the middle of an exciting project in partnership with local planning and zoning commissions, other elected/appointed officials, and residents. The main goal of this "Plan4Health" project is to develop a toolkit or guidebook that will support and help promote healthy communities through decisions and policies made about the built environment.

As a way for you to better understand our project and how your planning decisions influence the health of your community, **you're invited to attend the Connecticut Public Health Association's Annual Conference!** The theme is "Healthy By Design," and will shine some light on how the public health and planning worlds can work together to create happier, healthier and more prosperous communities. Here are the details of the conference (please see entire brochure attached to this letter):

**Date/Times:** Friday October 23<sup>rd</sup> from 8:00am-4:00pm

**Location:** Coco Key Convention Center, 3580 East Main Street, Waterbury, CT 06705

**Cost:** FREE for all Town Planners and Commissioners within the Eastern Highlands Health District

**RSVP:** September 31<sup>st</sup> 2015 to Millie Brosseau (860-429-3325 or [mbrosseau@ehhd.org](mailto:mbrosseau@ehhd.org)). Please register directly through us to ensure your registration fee is paid for by EHHD.

**You are invited to attend the entire conference, but we highly encourage you to at least attend the Plenary Session from 1:15-2:30.** EHHD has recruited 2 planning professionals from Providence and New York City to speak on "Lighter, Quicker, Cheaper (LQC)...and Healthier Approaches to Placemaking." We believe that this session will provide you with some foundational information to better understand the Plan4Health project, and also provide you with some tools on ways to improve the health of the community through the built environment on a "shoe string budget."

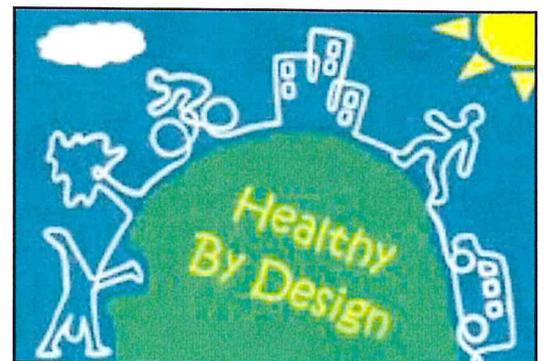
We look forward to many of you joining us at this exciting event. Please don't hesitate to reach out if you have any questions at all.

**Healthy Regards,**

Ana Zeller, RD, CDN

Community Health and Wellness Coordinator

**P:** 860-429-3325 **E:** [zellerae@ehhd.org](mailto:zellerae@ehhd.org)



## REGISTRATION

To register for the 2015 CPHA Annual Meeting and Conference, visit:

[www.cpha.info](http://www.cpha.info)

	Through 10/1/15	After 10/1/15
Members	\$85	\$95
Student Members	\$50	\$60
Non-Members	\$135	\$145

\*This conference is eligible for CHES credits for an additional \$25 fee \*

CPHA members are encouraged to renew their membership at this time. Non-members are encouraged to join CPHA and take advantage of the discounted registration rate.

### Questions?

If you have any questions regarding registration, the student poster session, sponsoring, exhibiting, or advertising, or anything else regarding the conference, please email us at:

[annual.conference@cpha.info](mailto:annual.conference@cpha.info)

## *Make your organization part of the 2015 CPHA Conference!*

Take the opportunity to exhibit, sponsor, or advertise at this year's conference!

Sponsorship of CPHA's Annual meeting provides a unique opportunity to reach out to public health professionals, health care practitioners, community groups, faculty and students across the state. This year's venue is ideal for sponsors and exhibitors – exhibits will be set up in the main lobby. There are a variety of sponsorship levels for all organizations and individuals.

Find out more information at:

<http://www.cpha.info/?page=AnnualSponsors>

### *Student Poster Session*

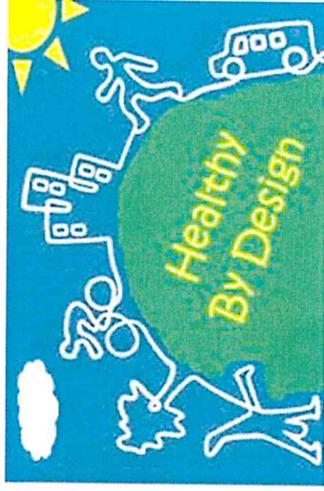
Students are invited to participate in CPHA's annual Student Poster Session! Student posters may present research, thesis, or community projects, or a unique academic experience. Posters are selected based on overall quality and relevance to the conference theme. Poster presenters must be registered for the conference in order to submit and present their poster.

Find out more information at:

<http://www.cpha.info/?page=AnnualPoster>

# Healthy By Design

The 2015 Annual Meeting & Conference of the Connecticut Public Health Association



Friday, October 23, 2015  
8:00am - 4:00pm

**Coco Key Convention Center**  
3580 East Main St  
Waterbury, CT 06705



**Connecticut  
Public Health  
Association**

Every year, the Connecticut Public Health Association (CPHA) hosts the state's premier public health event at the CPHA Annual Meeting and Conference. Join more than 300 public health practitioners from around CT for an exciting day full of learning and professional development!

### Conference Learning Objectives

At conclusion, attendees will be able to:

- 1. Describe** how policies, systems, and environmental changes can be applied to improve the public's health.
- 2. Identify** evidence-based strategies that engage communities to improve health outcomes and explain how they work and are applied effectively.
- 3. Explain** how collaboration with nontraditional partners supports the improvement of population health and wellness.
- 4. Promote** the formation of collegial professional networks and the exchange of ideas among members of the public health community.

### Conference Agenda

Registration	8:00am
Welcome & Keynote Speaker	8:30am
Breakout Session I	9:45am
1. Using the "Shaping Policy for Health" Analysis Tools to Improve Birth Outcomes	
2. Improving the Oral Health of Older Adults	
3. Increasing Healthy Food Access	
Breakout Session II	11:00am
1. Community Health Workers Achieving the Triple Aim and Health Equity	
2. Shaping Great Places for People to Grow Up and Grow Older in Connecticut	
3. 2016 SHIP ACTION Agenda: Where Do You Fit In?	
Lunch & Business Meeting	12:00pm
Dessert & Plenary Session	1:15pm
Breakout Session III	2:30pm
1. Dual Presentations: ~ Designing Healthy Workplaces ~ Taking the "preventive component" to your community	
2. Dual Presentations: ~ Gender & Sexual Minority Healthcare Satisfaction in CT ~ Raising Awareness of Health Disparities through Film	
3. Dual Presentations: ~ Managing Asthma: Bridging communication between school nurses and clinicians ~ Designing a School-Based Childhood Obesity Prevention Initiative	
Adjourn	4:00pm

\* Ample time has been allocated for attendees to visit exhibitor tables and student posters between sessions\*

### Keynote Speaker

**David L. Katz, MD, MPH, FACPM, FACP**

David L. Katz is a founding director of Yale University's Prevention Research Center and an Associate Professor (adjunct) of Public Health Practice at the Yale University School of Medicine.



Dr. Katz is recognized globally for expertise in nutrition, weight management and the prevention of chronic disease. He has delivered addresses in numerous countries on four continents, and has been acclaimed by colleagues as the "poet laureate" of health promotion.

Katz lectures on effective strategies for weight control and better nutritional health to audiences ranging from children, to academic colleagues and public health leaders.

### Plenary Session

**Lighter, Quicker, Cheaper (LQC)... and Healthier Approaches to Placemaking**

Transforming the built environment to improve health outcomes can take years, if not decades. LQC improvements of streets, public spaces, and buildings can generate excitement, new partnerships, and support for longer-term placemaking efforts and community change, while overcoming common challenges such as planning fatigue, bureaucratic red tape, and lack of funding. Panel speakers will discuss the short-term, low cost, yet high impact strategies to empower communities while creating great places in their neighborhoods, towns, cities, and regions. They will present examples from projects they have been involved with, including pop-up projects, passive and active recreation amenities, street redesigns that prioritize pedestrians, and farmers' market stands.