MERIDIAN
LAND SERVICES, INC.
Office: 31 Old Nashua Road, Suite 2, Amherst, NH 03031
Mailing: PO Box 118, Milford, NH 03055
Phone: 603-673-1441 * Fax 603-673-1584
www.MeridianLandServices.com
CIVIL ENGINEERING | LAND SURVEYING | PERMITTING | SOIL & WETLAND MAPPING | SEPTIC DESIGN | ENVIRONMENTAL

STORMWATER MANAGEMENT REPORT

JACOBSON FARM

Christian Hill Road
Map 5 Lots 100 and 148
Amherst, New Hampshire 03031

Prepared for:
TransFarmations Inc.
17 Christian Hill Road
Amherst, New Hampshire 03031

October 15, 2025

Prepared by: Jasper J. Anderson, EIT
Reviewed by: Samuel R. Foisie, PE

MLS Project No. 10605.00

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Christian Hill Road
Tax Map 5 Lots 100 and 148
Amherst, New Hampshire 03031

October 15, 2025

I. INTRODUCTION

The following drainage calculations are being provided in support of the proposed site plan located on Christian Hill Road in Amherst. The development will consist of the subdivision of Lots 5-100 (Hillside) and 5-148 (Farm side) into 32 single family lots, one (1) lot restricted to farming, and two (2) open space lots. Additionally, one (1) road will be constructed to provide access to some of the lots. Jake's Hill Road will be a public road that provides access to lots 5-100-5 through 5-100-22. The stormwater management for the site has been designed in accordance with the Town of Amherst Stormwater Regulations.

II. SITE DESCRIPTION

Existing lot 5-100 is currently forested farmland. The topography of the property generally slopes downward from the west to the east toward Christian Hill Road.

Existing lot 5-148 is currently a single-family residence that will remain as Lot 5-148-6. The topography of the property generally slopes west to east downward from the roadway then flattens to the wetlands in the back of the lot.

The existing soil types for the site area were determined through a site-specific soil survey conducted by Jason C. Bolduc, CSS of this office. The following are the existing soil types identified on the property:

26	Windsor loamy sand (excessively drained)	HSG A
34	Wareham loamy sand (poorly drained)	HSG C
42	Canton fine sandy loam (well drained)	HSG B
313	Deerfield loamy fine sand (moderately well drained)	HSG B
350	Udipsamments, wet substratum (moderately well drained)	HSG B
444	Newfields fine sandy loam (moderately well drained)	HSG B
514	Leicester fine sandy loam (poorly drained)	HSG C

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915	Deerfield Variant (somewhat poorly drained)	HSG C
921	Newfields Variant (somewhat poorly drained)	HSG C

III. DRAINAGE DESIGN

The proposed site will use open and closed drainage to convey the stormwater runoff to the eight (8) stormwater management ponds.

Stormwater Management Pond "A" Infiltration Basin (3.2P) is located on the east portion of Lot 5-100 along Christian Hill Road and will treat a portion of the runoff from the Hillside. The stormwater will be conveyed to this basin using a series of catch basins and drainage manholes along Jake's Hill Road as well as a swale upgradient of Lots 5-100-2 through 5-100-4. The total storage of the basin is 36,850± CF.

Stormwater Management Pond "B" Bioretention Pond (3.3P) is located southeast of Stormwater Management Pond "A" along Christian Hill Road and will treat the runoff from the lower portion of Jake's Hill Road and part of Christian Hill Road. The stormwater will be conveyed to this pond using a series of flared end sections and catch basins. The total storage of the pond is 5,550± CF.

Stormwater Management Pond "C" Infiltration Basin (3.1BP) is located north of proposed lot 5-100-22 and will treat runoff from the upper portion of Jake's Hill Road as well as a majority of the proposed Hillside lots. The stormwater will be conveyed to this basin using a series of flared end sections and catch basins. The total storage of the basin is 16,270± CF.

Stormwater Management Pond "D" Infiltration Basin (4.3P) is located on proposed lots 5-148-2 and 5-148-3 along Christian Hill Road and will treat runoff from proposed lots 5-100-1 and 5-100-2 and from the adjacent wetland. The total storage of the basin is 25,360± CF.

Stormwater Management Pond "E" Infiltration Basin (4.2BP) is located on the southern portion of proposed lot 5-148-13 and will treat runoff from proposed lots 5-148-3 through 5-148-9. The total storage of the basin is 15,150± CF.

Stormwater Management Pond "F" Gravel Wetland (4.4P) is located on the southern portion of proposed lot 5-148-13 and will treat the runoff from the proposed lots 5-148-1, 5-148-2, 5-148-3, and 5-148-13. The total storage of the wetland is 3,960± CF.

Stormwater Management Pond "G" Bioretention Pond (4.1P) is located north of the proposed dwelling on proposed lot 5-148-10 and will treat the runoff from proposed lots 5-148-10 and 5-148-11. The total storage of the pond is 2,460± CF.

Stormwater Management Pond "H" Bioretention Pond (4.5P) is located on the proposed lot 5-148-12 and will treat the runoff from that lot. The total storage of the pond is 1,480± CF.

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The 1-inch, 2-, 10-, 25-, and 50-year storm runoff rates were analyzed in both the Pre-Development and Post-Development conditions per the Town of Amherst Stormwater Regulations.

METHODOLOGY

The quantity of runoff and the conveyance of that flow through the site are determined using the software package HydroCAD 10.10-4b by HydroCAD Software Solutions LLC. HydroCAD is a computer aided design program for modeling storm water hydrology based on the Soil Conservation Service (SCS) TR-55 method combined with standard hydraulics calculations.

V. SUMMARY

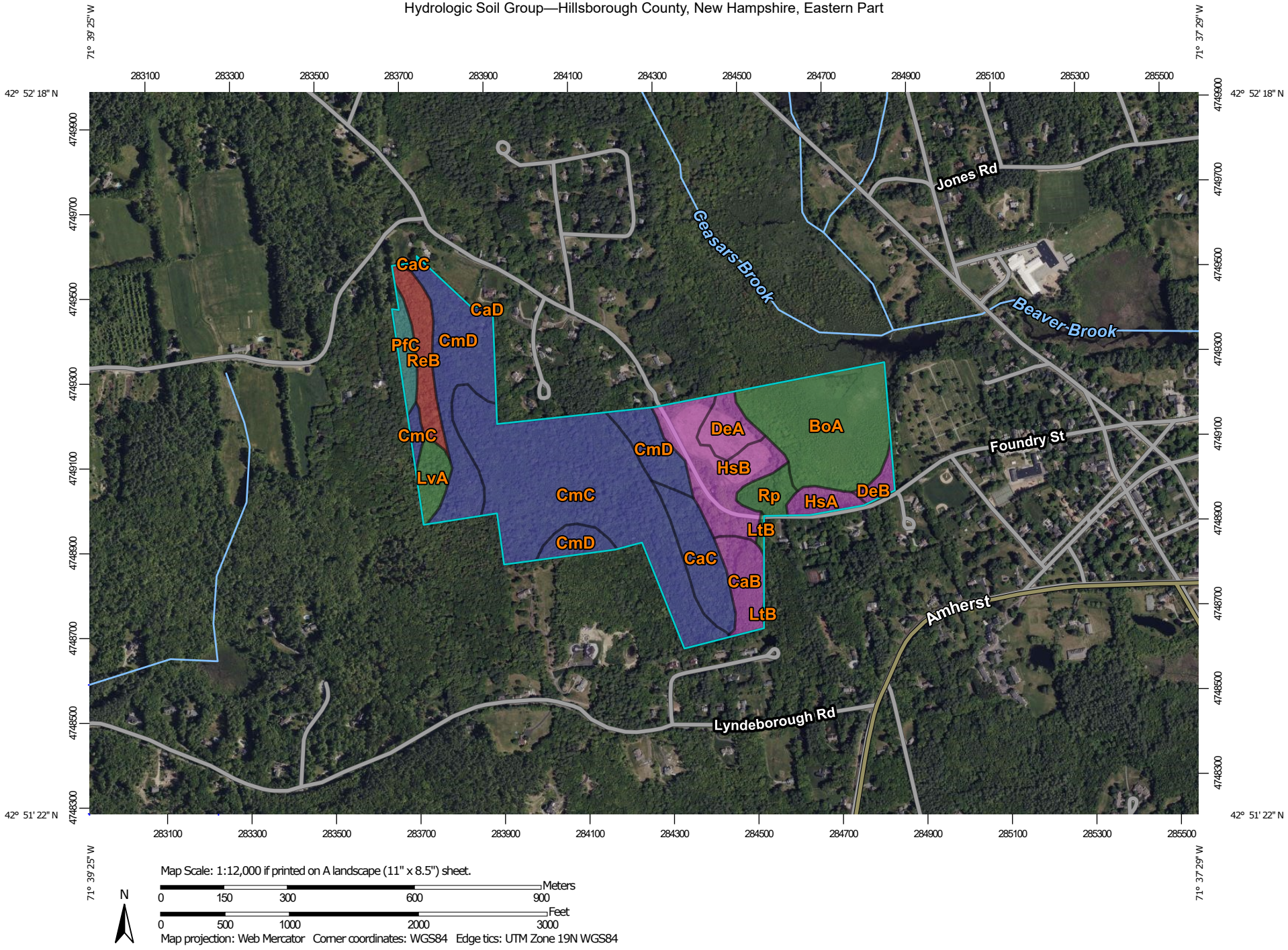
The following tables are included below for the applicable design storms to the observation point.

Table 1: 1-inch, 2-, 10-, 25- & 50-year peak runoff rate comparison

Location	Q1-INCH (CFS)			Q2-YR (CFS)			Q10-YR (CFS)			Q25-YR (CFS)			Q50-YR (CFS)		
	Pre	Post	Δ	Pre	Post	Δ	Pre	Post	Δ	Pre	Post	Δ	Pre	Post	Δ
OP-1	0.00	0.00	0.00	2.82	2.75	-0.07	14.65	11.63	-3.02	29.42	24.58	-4.84	45.68	45.66	-0.02

Table 2: 2-year peak volume comparison

Location	V2-YR (AF)		
	Pre	Post	Δ
OP-1	1.118	1.030	-0.088


71° 39' 25" W
71° 37' 29" W
42° 52' 18" N
42° 51' 22" N
283100
283300
283500
283700
283900
284100
284300
284500
284700
284900
285100
285300
285500
4749900
4749700
4749500
4749300
4749100
4748900
4748700
4748500
4748300
CaC
CaD
PfC
CmD
ReB
CmC
LvA
CmD
DeA
BoA
HsB
Rp
HsA
DeB
LtB
CmC
CmD
CaC
CaB
LtB
Ceasars Brook
Jones Rd
Beaver Brook
Foundry St
Amherst
Lyndeborough Rd
Map Scale: 1:12,000 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 150 300 600 900
Feet
0 500 1000 2000 3000
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hillsborough County, New Hampshire, Eastern Part
Survey Area Data: Version 27, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 22, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BoA	Borohemists, nearly level	A/D	19.1	16.1%
CaB	Canton fine sandy loam, 0 to 8 percent slopes	A	4.6	3.9%
CaC	Canton fine sandy loam, 8 to 15 percent slopes	B	6.9	5.8%
CaD	Canton fine sandy loam, 15 to 25 percent slopes	A	0.0	0.0%
CmC	Canton fine sandy loam, 8 to 15 percent slopes, very stony	B	36.9	31.0%
CmD	Canton fine sandy loam, 15 to 25 percent slopes, very stony	B	20.3	17.0%
DeA	Deerfield loamy fine sand, 0 to 3 percent slopes	A	3.5	3.0%
DeB	Deerfield loamy fine sand, 3 to 8 percent slopes	A	1.2	1.0%
HsA	Hinckley loamy sand, 0 to 3 percent slopes	A	2.2	1.9%
HsB	Hinckley loamy sand, 3 to 8 percent slopes	A	11.0	9.3%
LtB	Leicester-Walpole complex, 3 to 8 percent slopes	A/D	0.3	0.3%
LvA	Leicester-Walpole complex stony, 0 to 3 percent slopes	A/D	2.8	2.3%
PfC	Paxton fine sandy loam, 8 to 15 percent slopes, very stony	C	2.3	1.9%
ReB	Ridgebury fine sandy loam, 3 to 8 percent slopes, very stony	D	5.0	4.2%
Rp	Rippowam fine sandy loam	A/D	2.6	2.2%
Totals for Area of Interest			**118.9**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Extreme Precipitation Tables

Northeast Regional Climate Center

Data represents point estimates calculated from partial duration series. All precipitation amounts are displayed in inches.

Metadata for Point	
Smoothing	Yes
State	New Hampshire
Location	New Hampshire, United States
Latitude	42.864 degrees North
Longitude	71.639 degrees West
Elevation	80 feet
Date/Time	Thu Aug 01 2024 15:55:26 GMT-0400 (Eastern Daylight Time)

Extreme Precipitation Estimates

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1da
1yr	0.27	0.42	0.52	0.68	0.85	1.07	**1yr**	0.74	1.01	1.24	1.56	1.96	2.46	2.72	**1yr**	2.1
2yr	0.33	0.51	0.63	0.83	1.05	1.31	**2yr**	0.90	1.20	1.52	1.89	2.36	2.94	3.29	**2yr**	2.6
5yr	0.39	0.61	0.76	1.02	1.31	1.66	**5yr**	1.13	1.50	1.92	2.40	2.98	3.69	4.20	**5yr**	3.2
10yr	0.44	0.69	0.87	1.19	1.54	1.97	**10yr**	1.33	1.77	2.29	2.87	3.55	4.38	5.06	**10yr**	3.8
25yr	0.52	0.83	1.05	1.45	1.93	2.48	**25yr**	1.66	2.21	2.89	3.62	4.49	5.51	6.48	**25yr**	4.8
50yr	0.58	0.94	1.21	1.69	2.28	2.97	**50yr**	1.97	2.62	3.48	4.35	5.37	6.55	7.81	**50yr**	5.8
100yr	0.67	1.09	1.40	1.99	2.71	3.54	**100yr**	2.34	3.11	4.15	5.19	6.40	7.80	9.43	**100yr**	6.9
200yr	0.76	1.25	1.62	2.32	3.21	4.23	**200yr**	2.77	3.69	4.96	6.21	7.64	9.28	11.40	**200yr**	8.2
500yr	0.92	1.51	1.97	2.87	4.03	5.34	**500yr**	3.47	4.62	6.27	7.86	9.66	11.70	14.66	**500yr**	10.3

Lower Confidence Limits

	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1da
1yr	0.21	0.32	0.39	0.53	0.65	0.77	**1yr**	0.56	0.76	1.00	1.32	1.67	2.27	2.29	**1yr**	2.0
2yr	0.31	0.49	0.60	0.81	1.00	1.19	**2yr**	0.86	1.16	1.35	1.75	2.25	2.86	3.19	**2yr**	2.5
5yr	0.35	0.54	0.67	0.92	1.18	1.39	**5yr**	1.02	1.36	1.61	2.08	2.66	3.46	3.89	**5yr**	3.0
10yr	0.39	0.59	0.73	1.03	1.32	1.56	**10yr**	1.14	1.52	1.76	2.36	3.00	3.99	4.53	**10yr**	3.5
25yr	0.43	0.66	0.82	1.18	1.55	1.81	**25yr**	1.33	1.77	2.05	2.79	3.51	4.84	5.55	**25yr**	4.2
50yr	0.47	0.71	0.89	1.27	1.72	2.04	**50yr**	1.48	2.00	2.31	3.19	3.95	5.62	6.49	**50yr**	4.9
100yr	0.50	0.76	0.95	1.37	1.88	2.30	**100yr**	1.62	2.25	2.61	3.29	4.47	6.53	7.60	**100yr**	5.7
200yr	0.54	0.82	1.03	1.50	2.09	2.59	**200yr**	1.80	2.54	2.91	3.69	5.08	7.61	8.93	**200yr**	6.7
500yr	0.60	0.89	1.15	1.67	2.38	3.06	**500yr**	2.05	2.99	3.42	4.31	6.04	9.33	11.08	**500yr**	8.2

Upper Confidence Limits

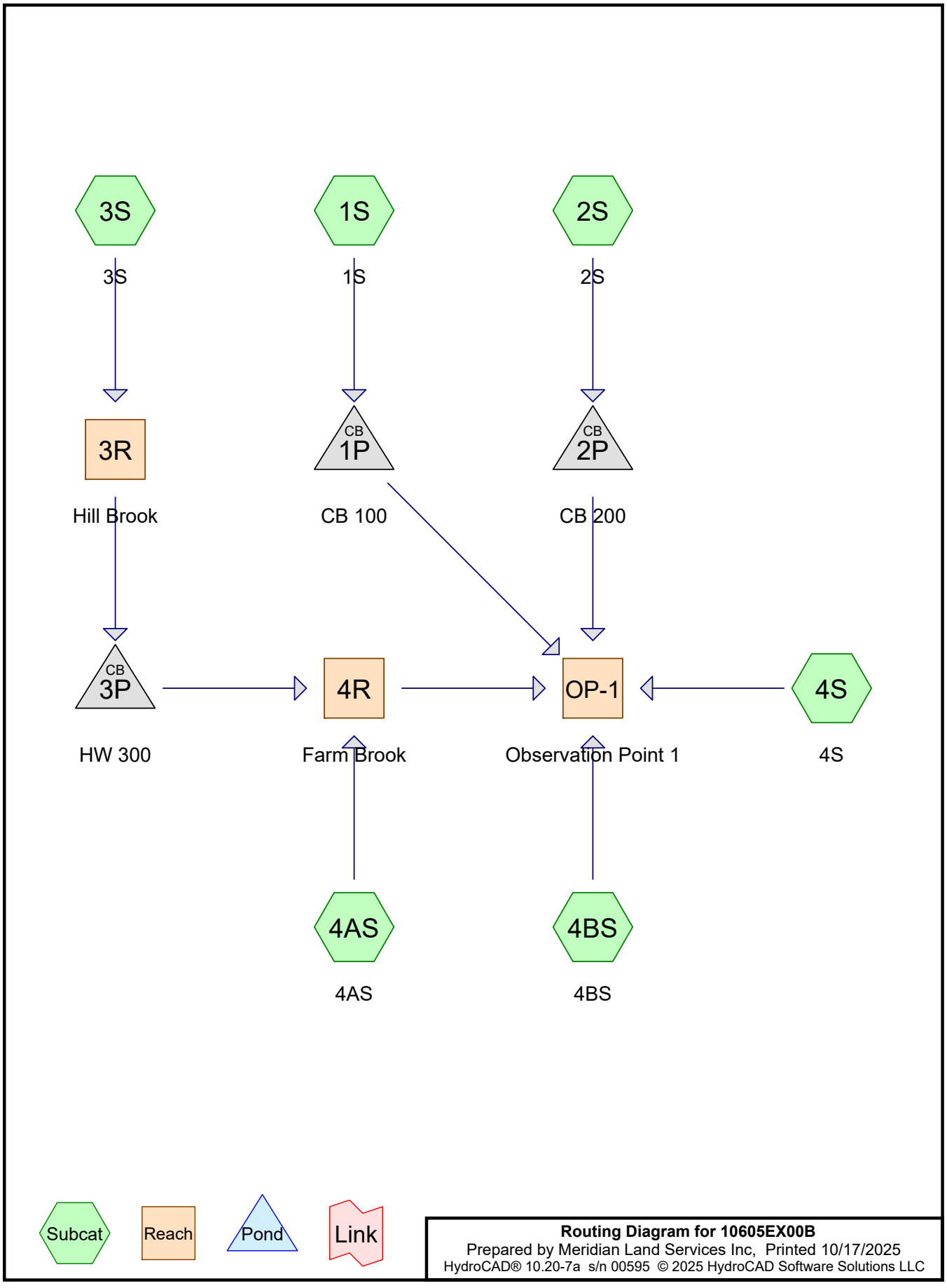
	5min	10min	15min	30min	60min	120min		1hr	2hr	3hr	6hr	12hr	24hr	48hr		1da
1yr	0.31	0.48	0.59	0.79	0.97	1.15	**1yr**	0.84	1.12	1.28	1.67	2.08	2.62	2.95	**1yr**	2.3
2yr	0.36	0.55	0.68	0.91	1.13	1.31	**2yr**	0.97	1.28	1.48	1.90	2.43	3.03	3.42	**2yr**	2.6
5yr	0.43	0.67	0.83	1.14	1.45	1.66	**5yr**	1.25	1.62	1.85	2.35	2.94	3.95	4.51	**5yr**	3.5
10yr	0.52	0.79	0.98	1.37	1.77	2.02	**10yr**	1.53	1.98	2.27	2.80	3.47	4.82	5.61	**10yr**	4.2
25yr	0.66	1.00	1.25	1.78	2.34	2.62	**25yr**	2.02	2.56	2.93	3.51	4.28	6.29	7.43	**25yr**	5.5
50yr	0.79	1.21	1.50	2.16	2.90	3.20	**50yr**	2.51	3.12	3.55	4.17	5.02	7.68	9.20	**50yr**	6.7
100yr	0.96	1.45	1.81	2.62	3.59	3.90	**100yr**	3.10	3.81	4.31	5.37	5.90	9.38	11.39	**100yr**	8.3

Section 1.0: Pre-Development Conditions

Routing Diagram

Area and Soils Listings

1-inch, 2-, 10-, 25- & 50-year Storm Nodes



Routing Diagram for 10605EX00B
Prepared by Meridian Land Services Inc, Printed 10/17/2025

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
6.653	39	>75% Grass cover, Good HSG A (4BS, 4S)
0.548	61	>75% Grass cover, Good HSG B (1S, 2S, 3S, 4AS, 4BS, 4S)
1.862	74	>75% Grass cover, Good HSG C (3S, 4BS, 4S)
0.001	76	Gravel roads HSG A (4BS)
0.004	85	Gravel roads HSG B (4BS)
0.012	98	Unconnected pavement HSG A (4BS)
0.780	98	Unconnected pavement HSG B (1S, 2S, 3S, 4AS, 4BS, 4S)
0.056	98	Unconnected roofs HSG A (4BS, 4S)
1.334	30	Woods, Good HSG A (2S, 3S, 4BS, 4S)
31.960	55	Woods, Good HSG B (1S, 2S, 3S, 4AS, 4BS, 4S)
11.481	70	Woods, Good HSG C (1S, 2S, 3S, 4AS, 4BS, 4S)
54.691	**57**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
8.056	HSG A	2S, 3S, 4BS, 4S
33.292	HSG B	1S, 2S, 3S, 4AS, 4BS, 4S
13.343	HSG C	1S, 2S, 3S, 4AS, 4BS, 4S
0.000	HSG D	
0.000	Other	
54.691		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=289,305 sf 1.02% Impervious Runoff Depth=0.00"
Flow Length=814' Slope=0.1717 '/' Tc=12.1 min UI Adjusted CN=56 Runoff=0.00 cfs 0.000 af

Subcatchment 2S: 2S Runoff Area=93,983 sf 3.17% Impervious Runoff Depth=0.00"
Flow Length=580' Slope=0.1997 '/' Tc=8.4 min UI Adjusted CN=57 Runoff=0.00 cfs 0.000 af

Subcatchment 3S: 3S Runoff Area=1,317,356 sf 0.65% Impervious Runoff Depth=0.00"
Flow Length=3,122' Slope=0.1441 '/' Tc=37.0 min CN=59 Runoff=0.00 cfs 0.000 af

Subcatchment 4AS: 4AS Runoff Area=58,364 sf 4.29% Impervious Runoff Depth=0.00"
Flow Length=351' Slope=0.0775 '/' Tc=7.5 min UI Adjusted CN=64 Runoff=0.00 cfs 0.000 af

Subcatchment 4BS: 4BS Runoff Area=342,287 sf 2.87% Impervious Runoff Depth=0.00"
Flow Length=624' Slope=0.0587 '/' Tc=24.0 min UI Adjusted CN=42 Runoff=0.00 cfs 0.000 af

Subcatchment 4S: 4S Runoff Area=281,037 sf 3.62% Impervious Runoff Depth=0.00"
Flow Length=741' Slope=0.0738 '/' Tc=14.8 min UI Adjusted CN=62 Runoff=0.00 cfs 0.000 af

Reach 3R: Hill Brook Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=15.04 cfs Outflow=0.00 cfs 0.000 af

Reach 4R: Farm Brook Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=49.70 cfs Outflow=0.00 cfs 0.000 af

Reach OP-1: Observation Point 1 Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 1P: CB 100 Peak Elev=269.19' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0200 '/' Outflow=0.00 cfs 0.000 af

Pond 2P: CB 200 Peak Elev=269.86' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=33.0' S=0.0200 '/' Outflow=0.00 cfs 0.000 af

Pond 3P: HW 300 Peak Elev=261.93' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=0.00 cfs 0.000 af

Total Runoff Area = 54.691 ac Runoff Volume = 0.000 af Average Runoff Depth = 0.00"
98.45% Pervious = 53.843 ac 1.55% Impervious = 0.848 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=289,305 sf 1.02% Impervious Runoff Depth=0.20"
Flow Length=814' Slope=0.1717 '/' Tc=12.1 min UI Adjusted CN=56 Runoff=0.47 cfs 0.112 af

Subcatchment 2S: 2S Runoff Area=93,983 sf 3.17% Impervious Runoff Depth=0.23"
Flow Length=580' Slope=0.1997 '/' Tc=8.4 min UI Adjusted CN=57 Runoff=0.20 cfs 0.041 af

Subcatchment 3S: 3S Runoff Area=1,317,356 sf 0.65% Impervious Runoff Depth=0.28"
Flow Length=3,122' Slope=0.1441 '/' Tc=37.0 min CN=59 Runoff=2.76 cfs 0.713 af

Subcatchment 4AS: 4AS Runoff Area=58,364 sf 4.29% Impervious Runoff Depth=0.44"
Flow Length=351' Slope=0.0775 '/' Tc=7.5 min UI Adjusted CN=64 Runoff=0.44 cfs 0.049 af

Subcatchment 4BS: 4BS Runoff Area=342,287 sf 2.87% Impervious Runoff Depth=0.00"
Flow Length=624' Slope=0.0587 '/' Tc=24.0 min UI Adjusted CN=42 Runoff=0.00 cfs 0.001 af

Subcatchment 4S: 4S Runoff Area=281,037 sf 3.62% Impervious Runoff Depth=0.37"
Flow Length=741' Slope=0.0738 '/' Tc=14.8 min UI Adjusted CN=62 Runoff=1.28 cfs 0.201 af

Reach 3R: Hill Brook Avg. Flow Depth=0.40' Max Vel=1.50 fps Inflow=2.76 cfs 0.713 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=15.04 cfs Outflow=2.05 cfs 0.713 af

Reach 4R: Farm Brook Avg. Flow Depth=0.23' Max Vel=1.24 fps Inflow=2.14 cfs 0.762 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=49.70 cfs Outflow=2.13 cfs 0.762 af

Reach OP-1: Observation Point 1 Inflow=2.82 cfs 1.118 af
Outflow=2.82 cfs 1.118 af

Pond 1P: CB 100 Peak Elev=269.55' Inflow=0.47 cfs 0.112 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0200 '/' Outflow=0.47 cfs 0.112 af

Pond 2P: CB 200 Peak Elev=270.09' Inflow=0.20 cfs 0.041 af
15.0" Round Culvert n=0.013 L=33.0' S=0.0200 '/' Outflow=0.20 cfs 0.041 af

Pond 3P: HW 300 Peak Elev=262.64' Inflow=2.05 cfs 0.713 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=2.05 cfs 0.713 af

Total Runoff Area = 54.691 ac Runoff Volume = 1.118 af Average Runoff Depth = 0.25"
98.45% Pervious = 53.843 ac 1.55% Impervious = 0.848 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=289,305 sf 1.02% Impervious Runoff Depth=0.74"
Flow Length=814' Slope=0.1717 '/' Tc=12.1 min UI Adjusted CN=56 Runoff=3.40 cfs 0.409 af

Subcatchment 2S: 2S Runoff Area=93,983 sf 3.17% Impervious Runoff Depth=0.79"
Flow Length=580' Slope=0.1997 '/' Tc=8.4 min UI Adjusted CN=57 Runoff=1.40 cfs 0.142 af

Subcatchment 3S: 3S Runoff Area=1,317,356 sf 0.65% Impervious Runoff Depth=0.90"
Flow Length=3,122' Slope=0.1441 '/' Tc=37.0 min CN=59 Runoff=13.54 cfs 2.267 af

Subcatchment 4AS: 4AS Runoff Area=58,364 sf 4.29% Impervious Runoff Depth=1.19"
Flow Length=351' Slope=0.0775 '/' Tc=7.5 min UI Adjusted CN=64 Runoff=1.61 cfs 0.133 af

Subcatchment 4BS: 4BS Runoff Area=342,287 sf 2.87% Impervious Runoff Depth=0.17"
Flow Length=624' Slope=0.0587 '/' Tc=24.0 min UI Adjusted CN=42 Runoff=0.19 cfs 0.111 af

Subcatchment 4S: 4S Runoff Area=281,037 sf 3.62% Impervious Runoff Depth=1.07"
Flow Length=741' Slope=0.0738 '/' Tc=14.8 min UI Adjusted CN=62 Runoff=5.34 cfs 0.576 af

Reach 3R: Hill Brook Avg. Flow Depth=0.88' Max Vel=2.52 fps Inflow=13.54 cfs 2.267 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=15.04 cfs Outflow=11.47 cfs 2.267 af

Reach 4R: Farm Brook Avg. Flow Depth=0.51' Max Vel=2.10 fps Inflow=11.75 cfs 2.400 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=49.70 cfs Outflow=11.70 cfs 2.400 af

Reach OP-1: Observation Point 1 Inflow=14.65 cfs 3.639 af
Outflow=14.65 cfs 3.639 af

Pond 1P: CB 100 Peak Elev=270.34' Inflow=3.40 cfs 0.409 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0200 '/' Outflow=3.40 cfs 0.409 af

Pond 2P: CB 200 Peak Elev=270.51' Inflow=1.40 cfs 0.142 af
15.0" Round Culvert n=0.013 L=33.0' S=0.0200 '/' Outflow=1.40 cfs 0.142 af

Pond 3P: HW 300 Peak Elev=266.33' Inflow=11.47 cfs 2.267 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=11.47 cfs 2.267 af

Total Runoff Area = 54.691 ac Runoff Volume = 3.639 af Average Runoff Depth = 0.80"
98.45% Pervious = 53.843 ac 1.55% Impervious = 0.848 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=289,305 sf 1.02% Impervious Runoff Depth=1.32"
Flow Length=814' Slope=0.1717 '/' Tc=12.1 min UI Adjusted CN=56 Runoff=7.22 cfs 0.728 af

Subcatchment 2S: 2S Runoff Area=93,983 sf 3.17% Impervious Runoff Depth=1.39"
Flow Length=580' Slope=0.1997 '/' Tc=8.4 min UI Adjusted CN=57 Runoff=2.85 cfs 0.249 af

Subcatchment 3S: 3S Runoff Area=1,317,356 sf 0.65% Impervious Runoff Depth=1.53"
Flow Length=3,122' Slope=0.1441 '/' Tc=37.0 min CN=59 Runoff=25.42 cfs 3.865 af

Subcatchment 4AS: 4AS Runoff Area=58,364 sf 4.29% Impervious Runoff Depth=1.92"
Flow Length=351' Slope=0.0775 '/' Tc=7.5 min UI Adjusted CN=64 Runoff=2.75 cfs 0.214 af

Subcatchment 4BS: 4BS Runoff Area=342,287 sf 2.87% Impervious Runoff Depth=0.46"
Flow Length=624' Slope=0.0587 '/' Tc=24.0 min UI Adjusted CN=42 Runoff=1.23 cfs 0.299 af

Subcatchment 4S: 4S Runoff Area=281,037 sf 3.62% Impervious Runoff Depth=1.76"
Flow Length=741' Slope=0.0738 '/' Tc=14.8 min UI Adjusted CN=62 Runoff=9.51 cfs 0.948 af

Reach 3R: Hill Brook Avg. Flow Depth=1.23' Max Vel=3.03 fps Inflow=25.42 cfs 3.865 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=15.04 cfs Outflow=22.50 cfs 3.865 af

Reach 4R: Farm Brook Avg. Flow Depth=0.70' Max Vel=2.58 fps Inflow=22.96 cfs 4.079 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=49.70 cfs Outflow=22.89 cfs 4.079 af

Reach OP-1: Observation Point 1 Inflow=29.42 cfs 6.303 af
Outflow=29.42 cfs 6.303 af

Pond 1P: CB 100 Peak Elev=272.21' Inflow=7.22 cfs 0.728 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0200 '/' Outflow=7.22 cfs 0.728 af

Pond 2P: CB 200 Peak Elev=270.86' Inflow=2.85 cfs 0.249 af
15.0" Round Culvert n=0.013 L=33.0' S=0.0200 '/' Outflow=2.85 cfs 0.249 af

Pond 3P: HW 300 Peak Elev=277.06' Inflow=22.50 cfs 3.865 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=22.50 cfs 3.865 af

Total Runoff Area = 54.691 ac Runoff Volume = 6.303 af Average Runoff Depth = 1.38"
98.45% Pervious = 53.843 ac 1.55% Impervious = 0.848 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=289,305 sf 1.02% Impervious Runoff Depth=1.93"
Flow Length=814' Slope=0.1717 '/' Tc=12.1 min UI Adjusted CN=56 Runoff=11.32 cfs 1.069 af

Subcatchment 2S: 2S Runoff Area=93,983 sf 3.17% Impervious Runoff Depth=2.02"
Flow Length=580' Slope=0.1997 '/' Tc=8.4 min UI Adjusted CN=57 Runoff=4.39 cfs 0.363 af

Subcatchment 3S: 3S Runoff Area=1,317,356 sf 0.65% Impervious Runoff Depth=2.20"
Flow Length=3,122' Slope=0.1441 '/' Tc=37.0 min CN=59 Runoff=38.02 cfs 5.542 af

Subcatchment 4AS: 4AS Runoff Area=58,364 sf 4.29% Impervious Runoff Depth=2.66"
Flow Length=351' Slope=0.0775 '/' Tc=7.5 min UI Adjusted CN=64 Runoff=3.90 cfs 0.297 af

Subcatchment 4BS: 4BS Runoff Area=342,287 sf 2.87% Impervious Runoff Depth=0.82"
Flow Length=624' Slope=0.0587 '/' Tc=24.0 min UI Adjusted CN=42 Runoff=2.94 cfs 0.534 af

Subcatchment 4S: 4S Runoff Area=281,037 sf 3.62% Impervious Runoff Depth=2.48"
Flow Length=741' Slope=0.0738 '/' Tc=14.8 min UI Adjusted CN=62 Runoff=13.77 cfs 1.331 af

Reach 3R: Hill Brook Avg. Flow Depth=1.59' Max Vel=3.28 fps Inflow=38.02 cfs 5.542 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=15.04 cfs Outflow=33.93 cfs 5.542 af

Reach 4R: Farm Brook Avg. Flow Depth=0.84' Max Vel=2.93 fps Inflow=34.55 cfs 5.839 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=49.70 cfs Outflow=34.48 cfs 5.839 af

Reach OP-1: Observation Point 1 Inflow=45.68 cfs 9.136 af
Outflow=45.68 cfs 9.136 af

Pond 1P: CB 100 Peak Elev=275.71' Inflow=11.32 cfs 1.069 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0200 '/' Outflow=11.32 cfs 1.069 af

Pond 2P: CB 200 Peak Elev=271.37' Inflow=4.39 cfs 0.363 af
15.0" Round Culvert n=0.013 L=33.0' S=0.0200 '/' Outflow=4.39 cfs 0.363 af

Pond 3P: HW 300 Peak Elev=295.52' Inflow=33.93 cfs 5.542 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=33.93 cfs 5.542 af

Total Runoff Area = 54.691 ac Runoff Volume = 9.136 af Average Runoff Depth = 2.00"
98.45% Pervious = 53.843 ac 1.55% Impervious = 0.848 ac

Section 1.1: Pre-Development Conditions

50-year Storm Full Report

Summary for Subcatchment 1S: 1S

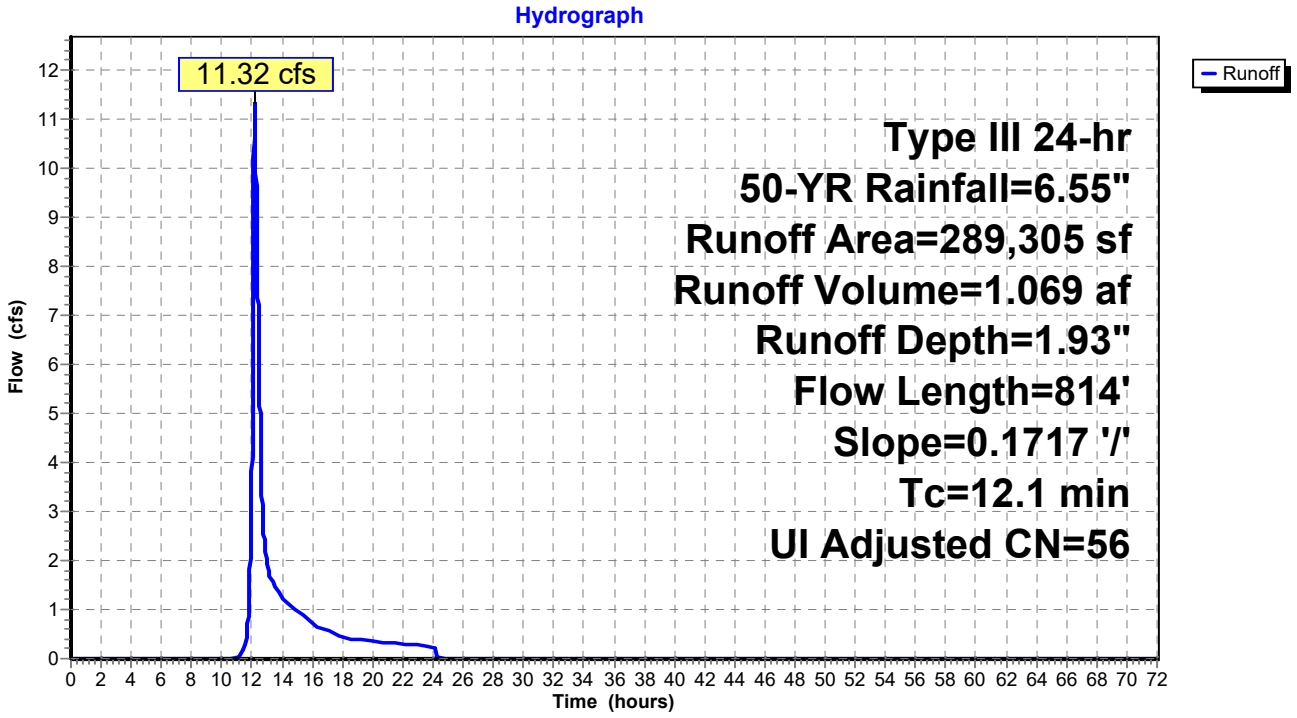
Runoff = 11.32 cfs @ 12.18 hrs, Volume= 1.069 af, Depth= 1.93"
Routed to Pond 1P : CB 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
22,164	70		Woods, Good HSG C
262,590	55		Woods, Good HSG B
2,942	98		Unconnected pavement HSG B
1,610	61		>75% Grass cover, Good HSG B
289,305	57	56	Weighted Average, UI Adjusted
286,364			98.98% Pervious Area
2,942			1.02% Impervious Area
2,942			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.1	814	0.1717	1.12		**Lag/CN Method,**

Subcatchment 1S: 1S



Summary for Subcatchment 2S: 2S

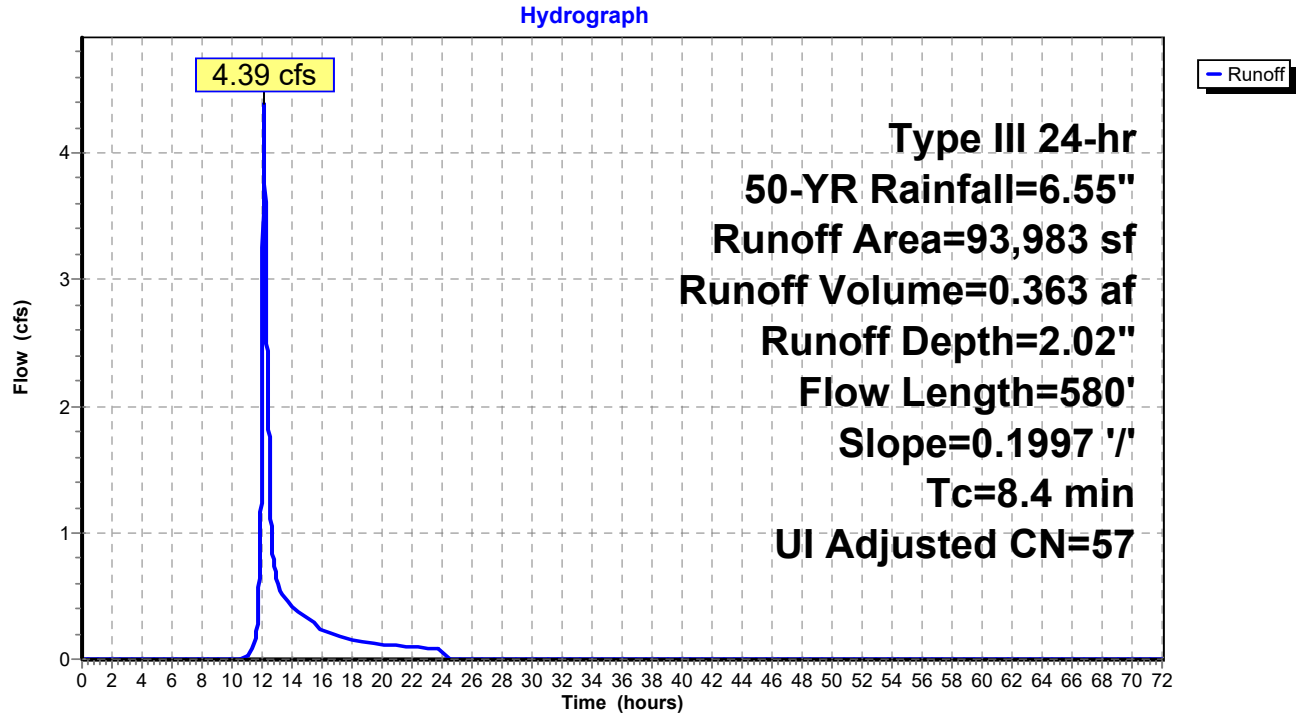
Runoff = 4.39 cfs @ 12.13 hrs, Volume= 0.363 af, Depth= 2.02"
Routed to Pond 2P : CB 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
80,590	55		Woods, Good HSG B
8,866	70		Woods, Good HSG C
426	30		Woods, Good HSG A
2,982	98		Unconnected pavement HSG B
1,120	61		>75% Grass cover, Good HSG B
93,983	58	57	Weighted Average, UI Adjusted
91,001			96.83% Pervious Area
2,982			3.17% Impervious Area
2,982			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	580	0.1997	1.15		**Lag/CN Method,**

Subcatchment 2S: 2S



Summary for Subcatchment 3S: 3S

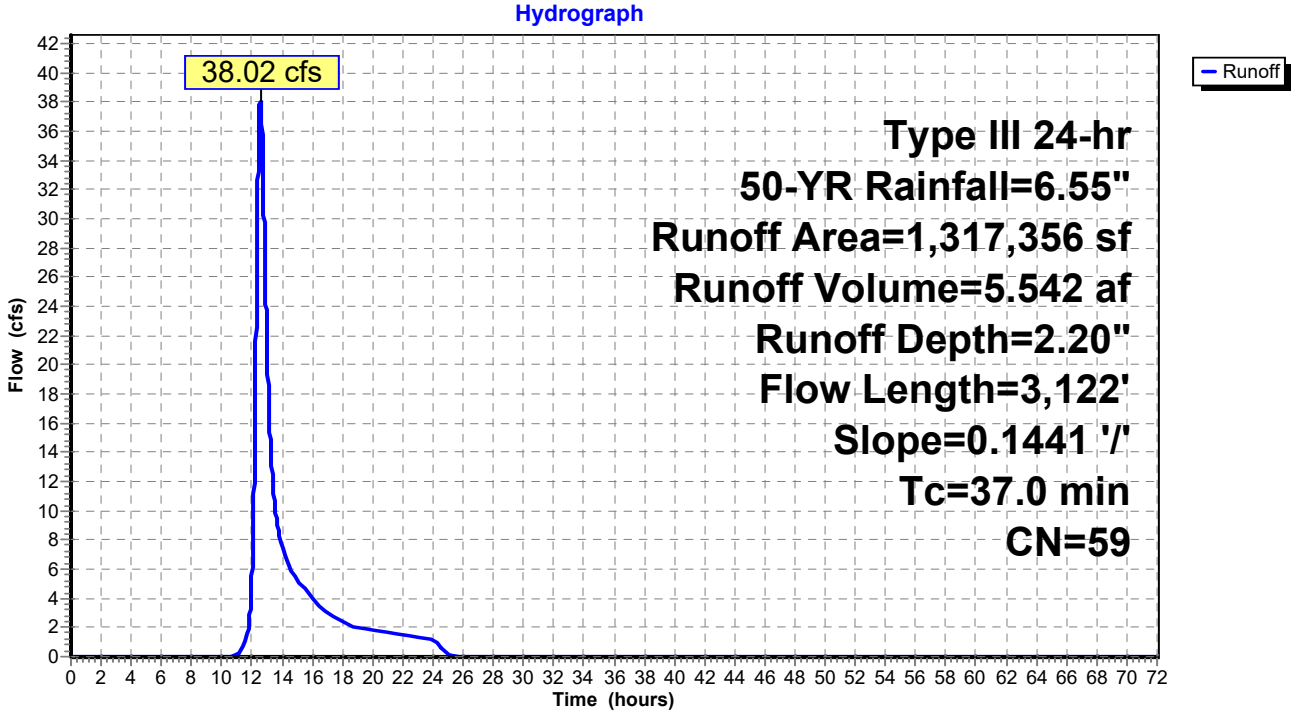
Runoff = 38.02 cfs @ 12.54 hrs, Volume= 5.542 af, Depth= 2.20"
Routed to Reach 3R : Hill Brook

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
10,589	30	Woods, Good HSG A
284,696	70	Woods, Good HSG C
955,631	55	Woods, Good HSG B
8,513	98	Unconnected pavement HSG B
6,576	61	>75% Grass cover, Good HSG B
51,351	74	>75% Grass cover, Good HSG C
1,317,356	59	Weighted Average
1,308,843		99.35% Pervious Area
8,513		0.65% Impervious Area
8,513		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.0	3,122	0.1441	1.41		**Lag/CN Method,**

Subcatchment 3S: 3S



Summary for Subcatchment 4AS: 4AS

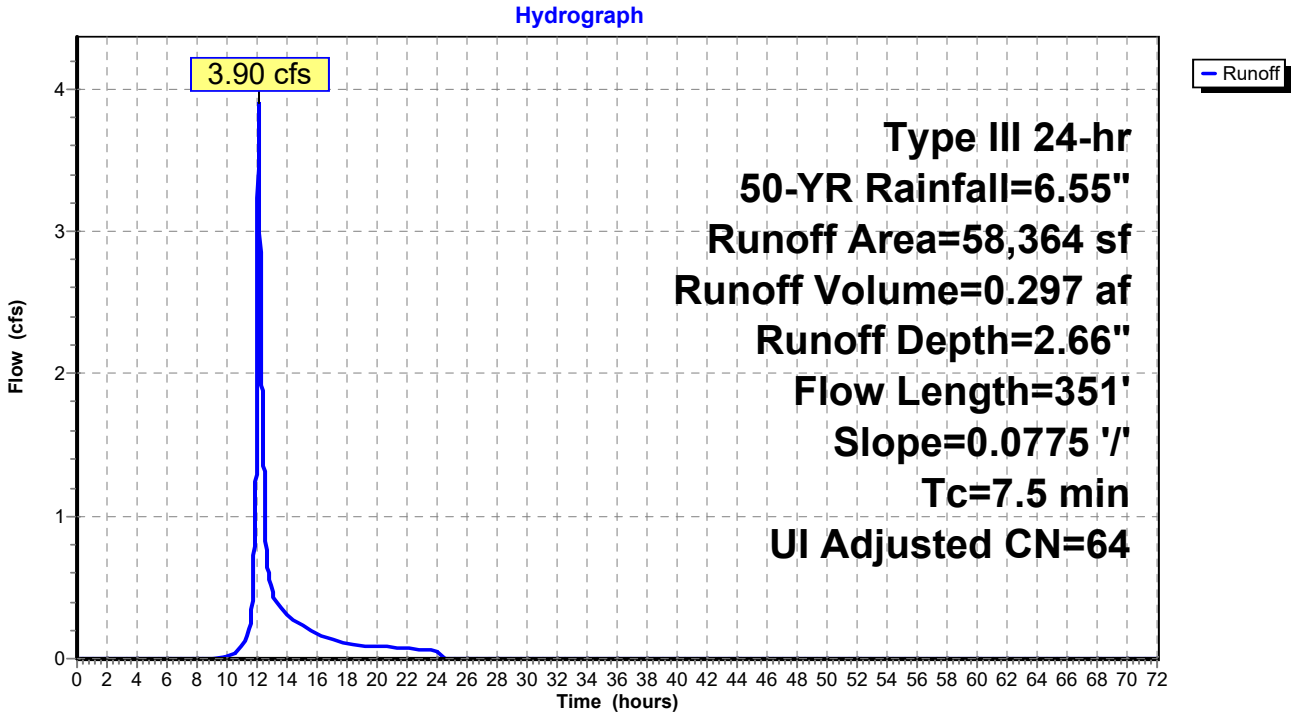
Runoff = 3.90 cfs @ 12.11 hrs, Volume= 0.297 af, Depth= 2.66"
Routed to Reach 4R : Farm Brook

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
30,056	70		Woods, Good HSG C
25,284	55		Woods, Good HSG B
2,502	98		Unconnected pavement HSG B
522	61		>75% Grass cover, Good HSG B
58,364	65	64	Weighted Average, UI Adjusted
55,862			95.71% Pervious Area
2,502			4.29% Impervious Area
2,502			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	351	0.0775	0.78		**Lag/CN Method,**

Subcatchment 4AS: 4AS



Summary for Subcatchment 4BS: 4BS

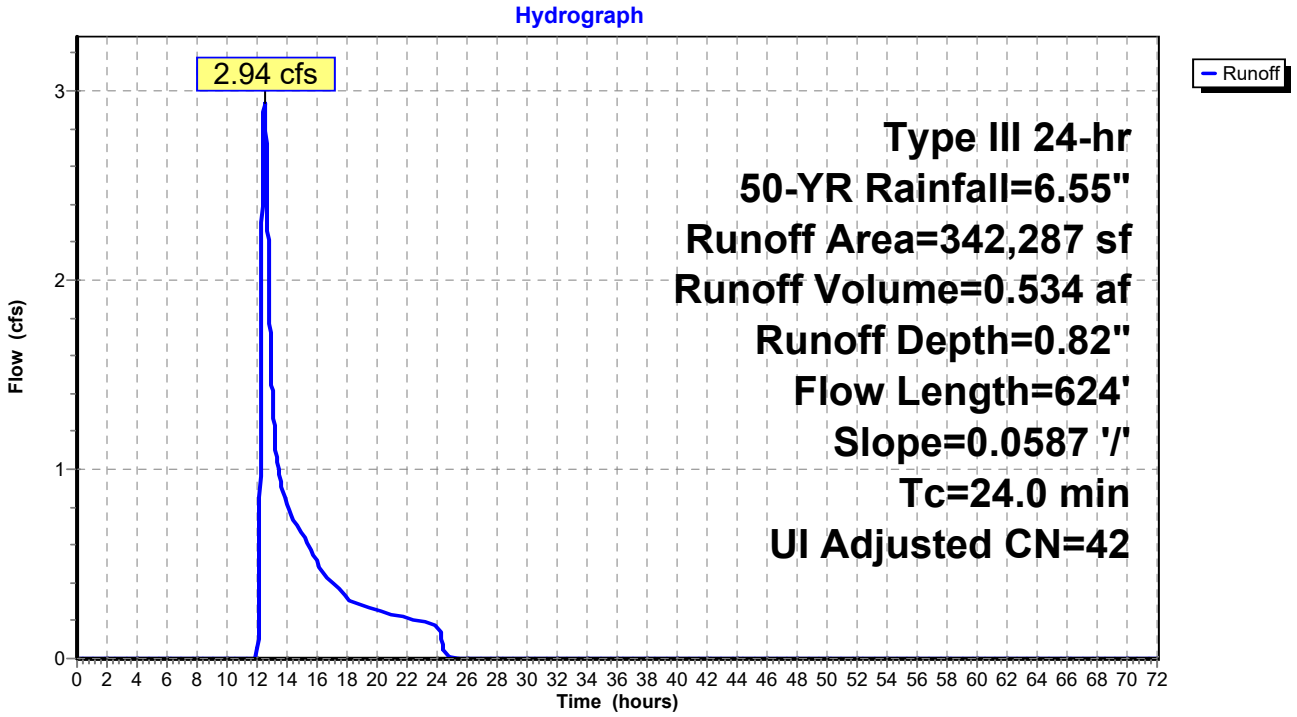
Runoff = 2.94 cfs @ 12.50 hrs, Volume= 0.534 af, Depth= 0.82"
Routed to Reach OP-1 : Observation Point 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
53	76		Gravel roads HSG A
6,291	70		Woods, Good HSG C
31,473	30		Woods, Good HSG A
829	55		Woods, Good HSG B
166	85		Gravel roads HSG B
7,904	98		Unconnected pavement HSG B
522	98		Unconnected pavement HSG A
1,395	98		Unconnected roofs HSG A
267,042	39		>75% Grass cover, Good HSG A
7,530	61		>75% Grass cover, Good HSG B
19,082	74		>75% Grass cover, Good HSG C
342,287	43	42	Weighted Average, UI Adjusted
332,466			97.13% Pervious Area
9,821			2.87% Impervious Area
9,821			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.0	624	0.0587	0.43		**Lag/CN Method,**

Subcatchment 4BS: 4BS



Summary for Subcatchment 4S: 4S

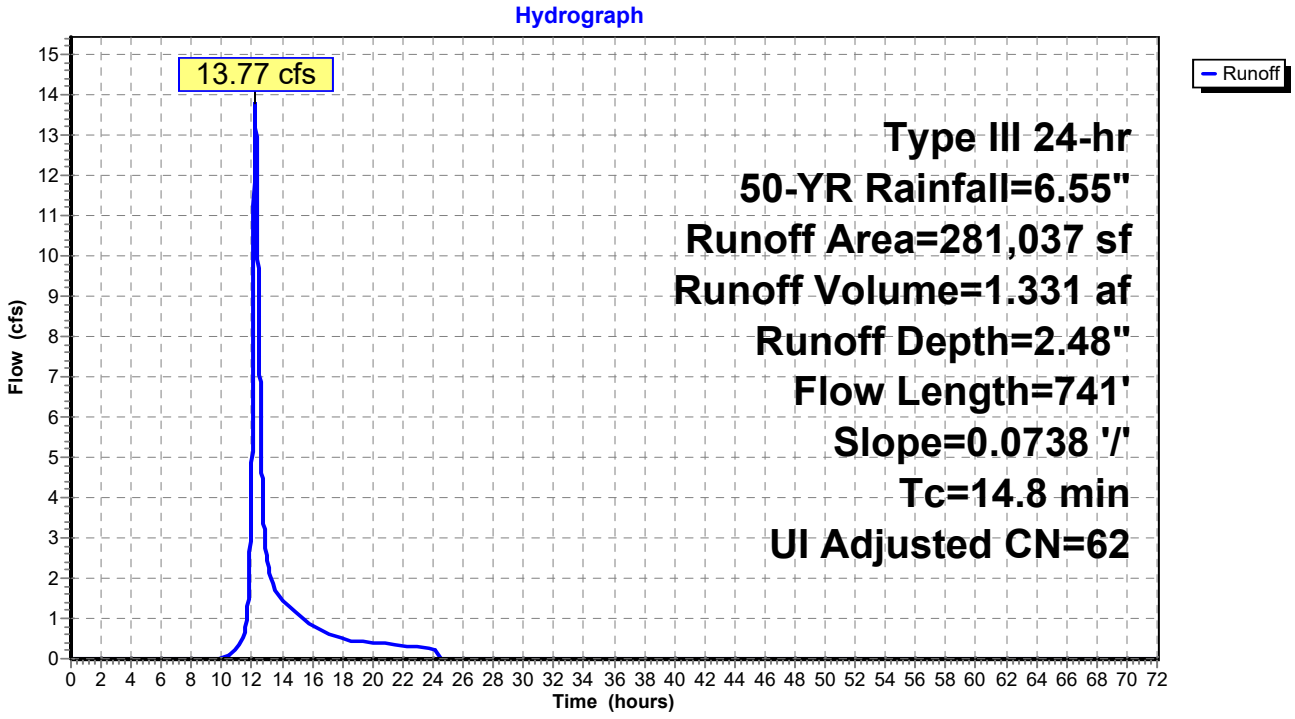
Runoff = 13.77 cfs @ 12.22 hrs, Volume= 1.331 af, Depth= 2.48"
Routed to Reach OP-1 : Observation Point 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
15,625	30		Woods, Good HSG A
148,047	70		Woods, Good HSG C
67,254	55		Woods, Good HSG B
9,155	98		Unconnected pavement HSG B
1,033	98		Unconnected roofs HSG A
22,751	39		>75% Grass cover, Good HSG A
6,495	61		>75% Grass cover, Good HSG B
10,679	74		>75% Grass cover, Good HSG C
281,037	63	62	Weighted Average, UI Adjusted
270,850			96.38% Pervious Area
10,187			3.62% Impervious Area
10,187			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.8	741	0.0738	0.84		**Lag/CN Method,**

Subcatchment 4S: 4S



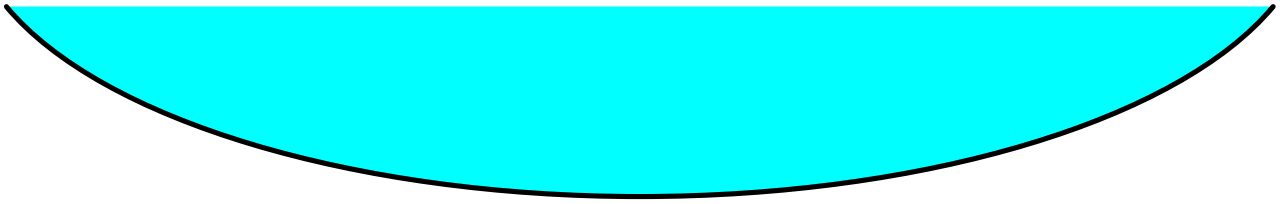
Summary for Reach 3R: Hill Brook

Inflow Area = 30.242 ac, 0.65% Impervious, Inflow Depth = 2.20" for 50-YR event
Inflow = 38.02 cfs @ 12.54 hrs, Volume= 5.542 af
Outflow = 33.93 cfs @ 12.71 hrs, Volume= 5.542 af, Atten= 11%, Lag= 10.1 min
Routed to Pond 3P : HW 300

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.28 fps, Min. Travel Time= 11.9 min
Avg. Velocity = 0.67 fps, Avg. Travel Time= 58.6 min

Peak Storage= 24,212 cf @ 12.71 hrs
Average Depth at Peak Storage= 1.59' , Surface Width= 10.40'
Bank-Full Depth= 1.00' Flow Area= 5.5 sf, Capacity= 15.04 cfs

8.25' x 1.00' deep Parabolic Channel, n= 0.070 Sluggish weedy reaches w/pools
Length= 2,339.0' Slope= 0.0299 '/'
Inlet Invert= 334.00', Outlet Invert= 264.00'



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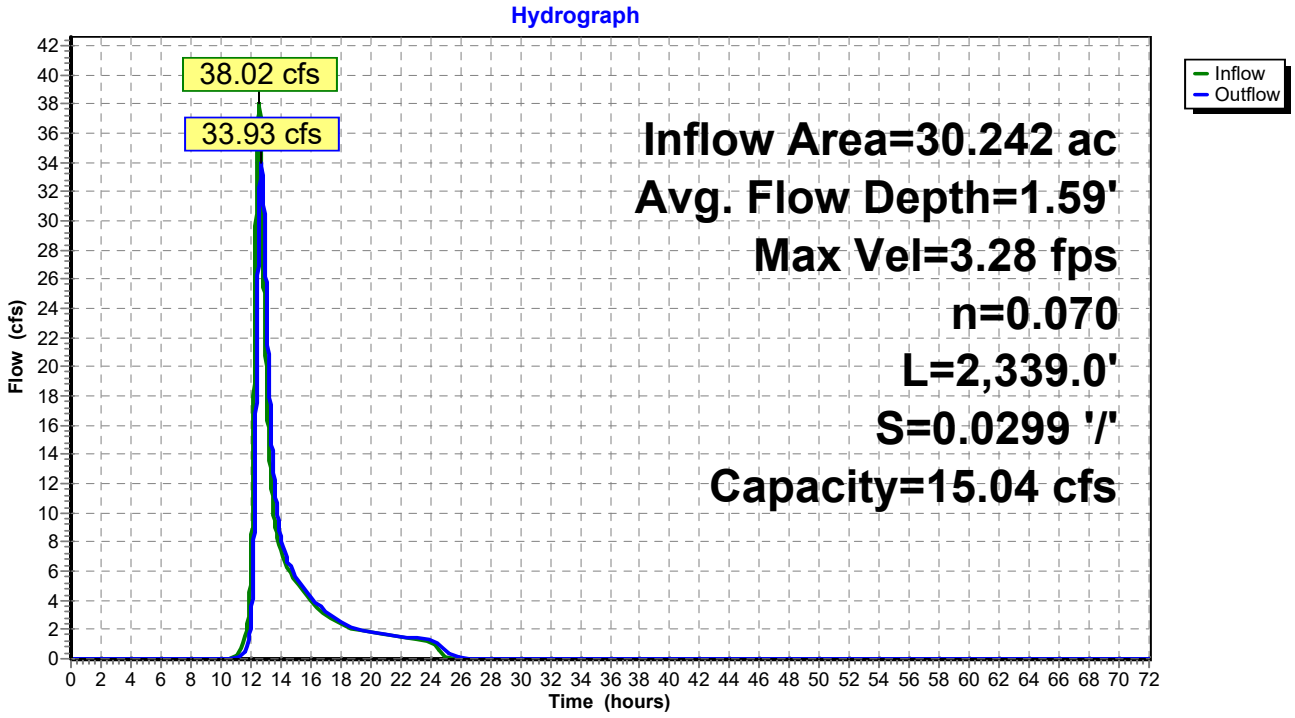
Reach 3R: Hill Brook



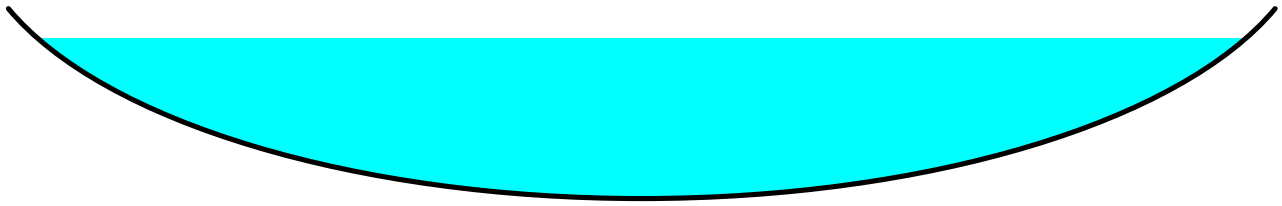
Summary for Reach 4R: Farm Brook

Inflow Area = 31.582 ac, 0.80% Impervious, Inflow Depth = 2.22" for 50-YR event
Inflow = 34.55 cfs @ 12.71 hrs, Volume= 5.839 af
Outflow = 34.48 cfs @ 12.73 hrs, Volume= 5.839 af, Atten= 0%, Lag= 1.4 min
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.93 fps, Min. Travel Time= 2.0 min
Avg. Velocity = 0.58 fps, Avg. Travel Time= 10.1 min

Peak Storage= 4,143 cf @ 12.73 hrs
Average Depth at Peak Storage= 0.84' , Surface Width= 20.91'
Bank-Full Depth= 1.00' Flow Area= 15.2 sf, Capacity= 49.70 cfs

22.75' x 1.00' deep Parabolic Channel, n= 0.070 Sluggish weedy reaches w/pools
Length= 352.0' Slope= 0.0412 '/'
Inlet Invert= 262.00', Outlet Invert= 247.50'



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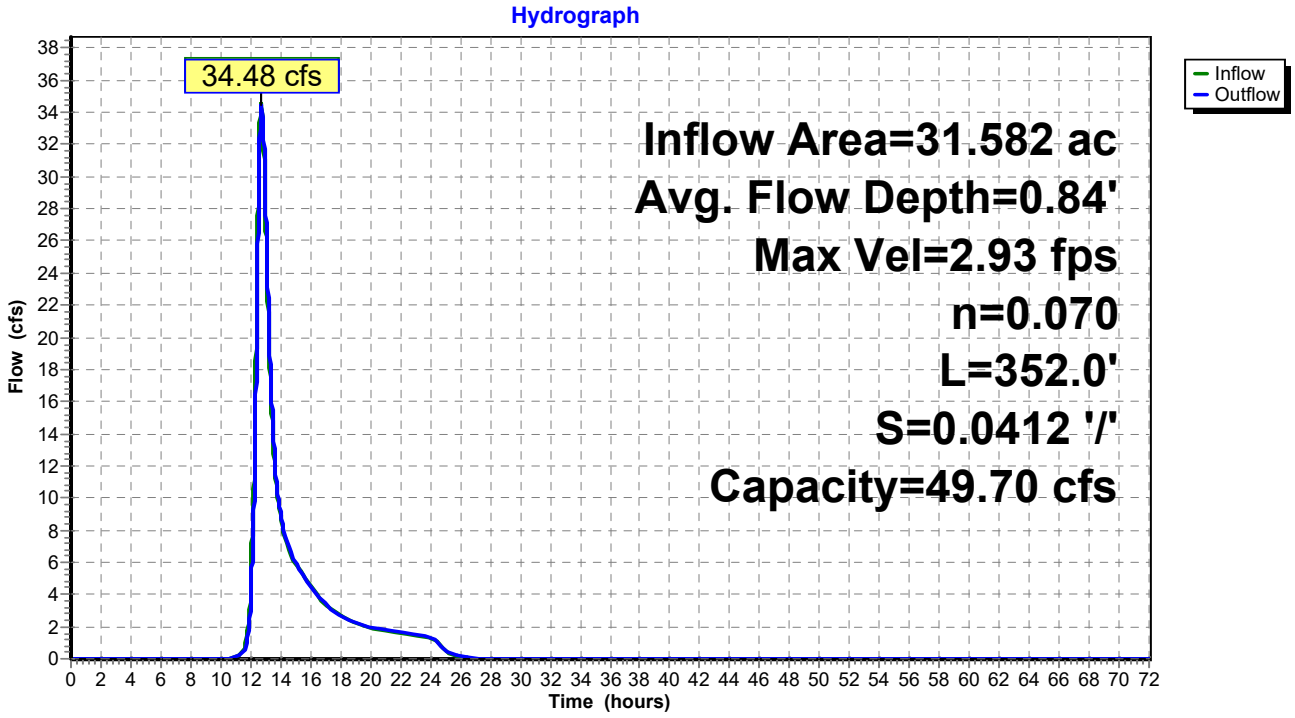
Reach 4R: Farm Brook

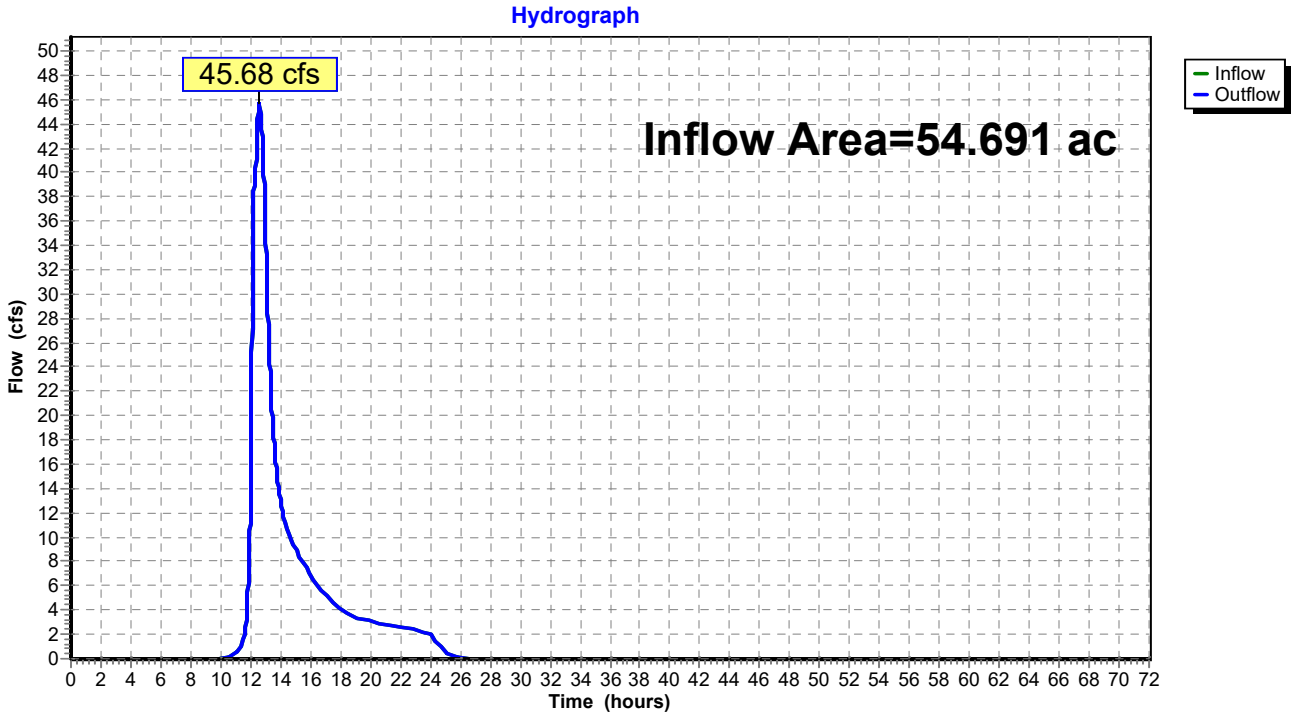


Summary for Reach OP-1: Observation Point 1

Inflow Area = 54.691 ac, 1.55% Impervious, Inflow Depth = 2.00" for 50-YR event
Inflow = 45.68 cfs @ 12.57 hrs, Volume= 9.136 af
Outflow = 45.68 cfs @ 12.57 hrs, Volume= 9.136 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach OP-1: Observation Point 1



Summary for Pond 1P: CB 100

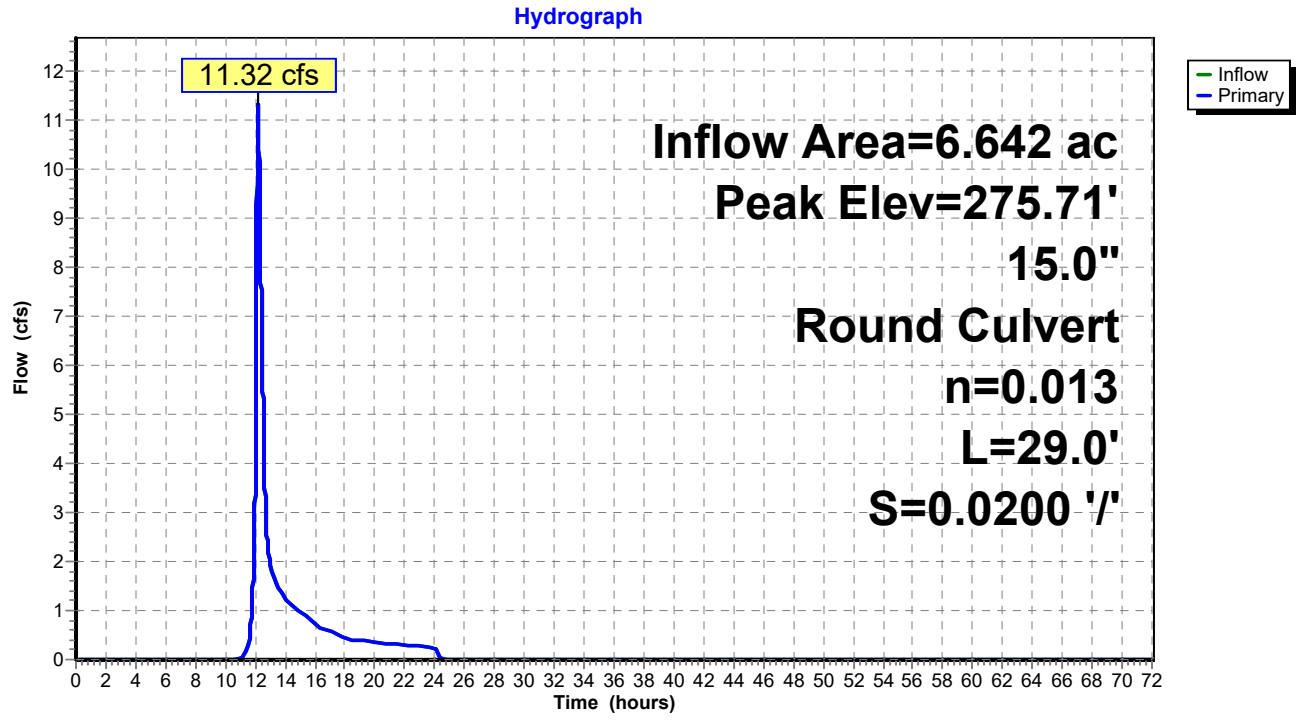
Inflow Area = 6.642 ac, 1.02% Impervious, Inflow Depth = 1.93" for 50-YR event
Inflow = 11.32 cfs @ 12.18 hrs, Volume= 1.069 af
Outflow = 11.32 cfs @ 12.18 hrs, Volume= 1.069 af, Atten= 0%, Lag= 0.0 min
Primary = 11.32 cfs @ 12.18 hrs, Volume= 1.069 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 275.71' @ 12.18 hrs
Flood Elev= 272.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	269.19'	**15.0" Round Culvert** L= 29.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 269.19' / 268.61' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=11.32 cfs @ 12.18 hrs HW=275.70' (Free Discharge)
1=Culvert (Inlet Controls 11.32 cfs @ 9.22 fps)

Pond 1P: CB 100



Summary for Pond 2P: CB 200

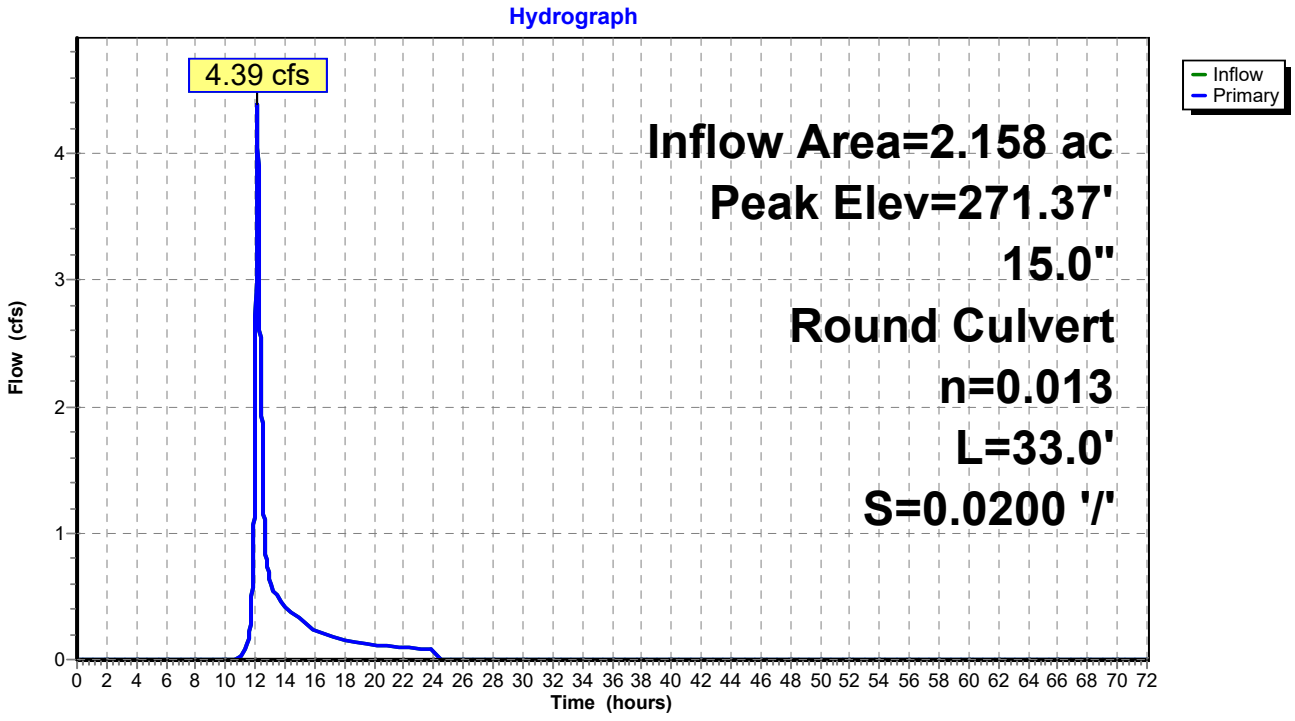
Inflow Area = 2.158 ac, 3.17% Impervious, Inflow Depth = 2.02" for 50-YR event
Inflow = 4.39 cfs @ 12.13 hrs, Volume= 0.363 af
Outflow = 4.39 cfs @ 12.13 hrs, Volume= 0.363 af, Atten= 0%, Lag= 0.0 min
Primary = 4.39 cfs @ 12.13 hrs, Volume= 0.363 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 271.37' @ 12.13 hrs
Flood Elev= 273.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	269.86'	**15.0" Round Culvert** L= 33.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 269.86' / 269.20' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.39 cfs @ 12.13 hrs HW=271.37' (Free Discharge)
1=Culvert (Inlet Controls 4.39 cfs @ 3.58 fps)

Pond 2P: CB 200



Summary for Pond 3P: HW 300

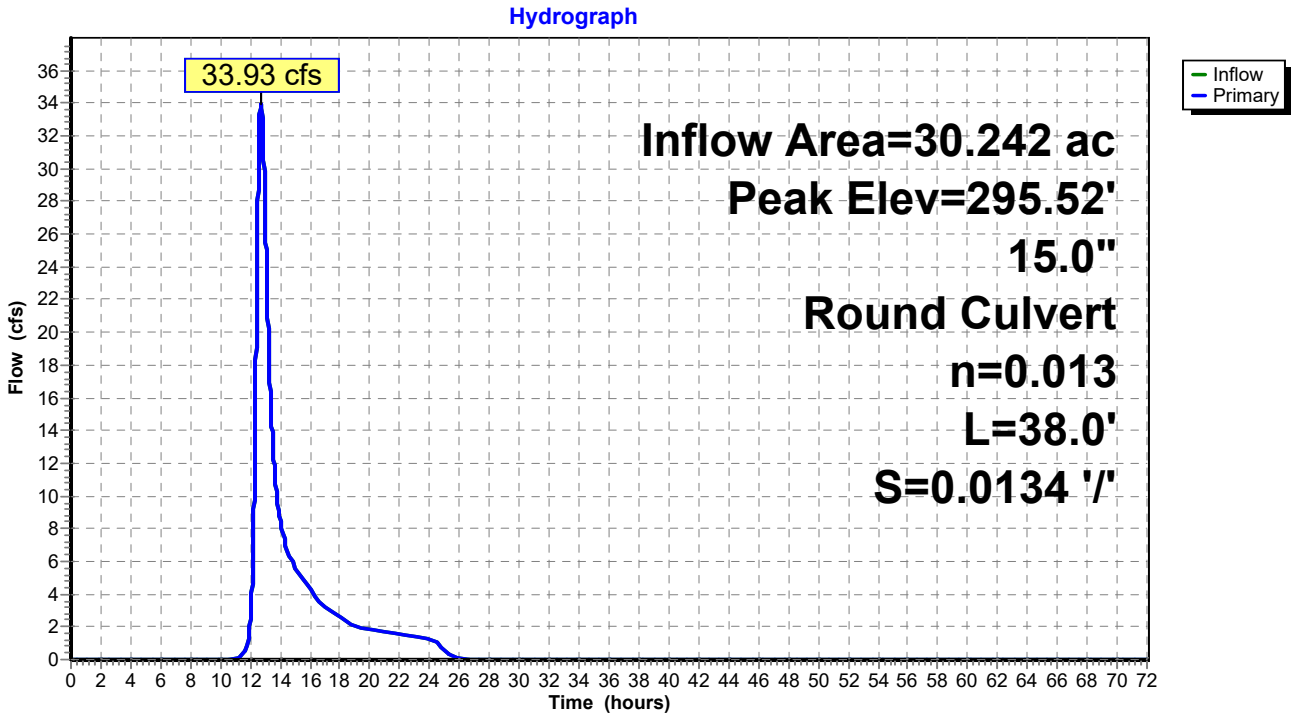
Inflow Area = 30.242 ac, 0.65% Impervious, Inflow Depth = 2.20" for 50-YR event
Inflow = 33.93 cfs @ 12.71 hrs, Volume= 5.542 af
Outflow = 33.93 cfs @ 12.71 hrs, Volume= 5.542 af, Atten= 0%, Lag= 0.0 min
Primary = 33.93 cfs @ 12.71 hrs, Volume= 5.542 af
Routed to Reach 4R : Farm Brook

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 295.52' @ 12.71 hrs
Flood Elev= 267.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.93'	**15.0" Round Culvert** L= 38.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 261.93' / 261.42' S= 0.0134 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=33.93 cfs @ 12.71 hrs HW=295.52' (Free Discharge)
1=Culvert (Inlet Controls 33.93 cfs @ 27.64 fps)

Pond 3P: HW 300

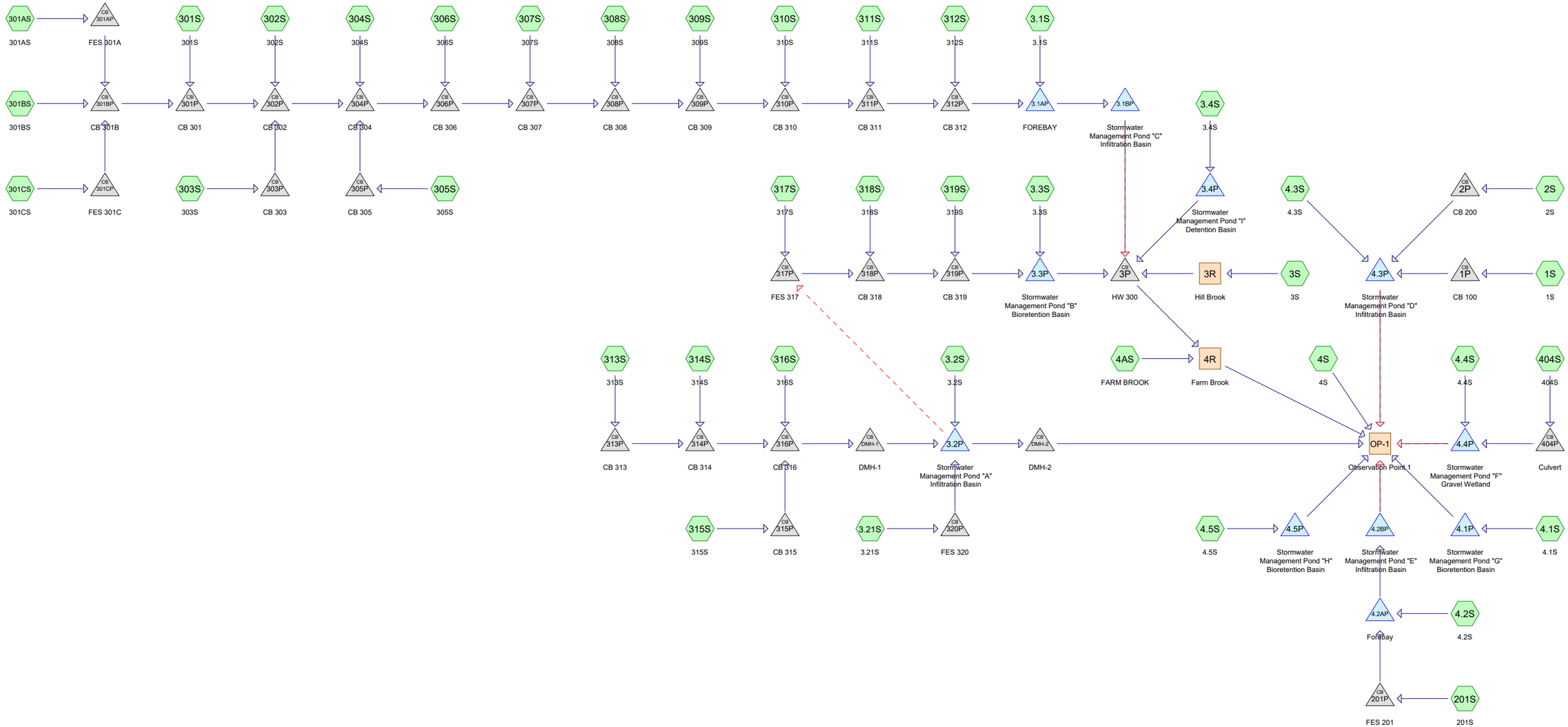


Section 2.0: Post-Development Conditions

Routing Diagram

Area and Soils Listings

1-inch, 2-, 10-, 25- & 50-year Storm Nodes



Subcat Reach Pond Link

Routing Diagram for 10605DV00B

Prepared by Meridian Land Services Inc, Printed 10/17/2025

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
6.650	39	>75% Grass cover, Good HSG A (3.2S, 4.2S, 4.3S, 4.4S, 4S, 201S, 317S, 404S)
9.755	61	>75% Grass cover, Good HSG B (1S, 2S, 3.1S, 3.21S, 3.2S, 3.3S, 3.4S, 3S, 4.1S, 4.2S, 4.3S, 4.5S, 4AS, 4S, 201S, 301AS, 301BS, 301CS, 301S, 302S, 303S, 304S, 305S, 306S, 307S, 308S, 309S, 310S, 311S, 314S, 316S, 317S, 318S, 319S)
2.567	74	>75% Grass cover, Good HSG C (2S, 3.1S, 3.2S, 3.3S, 3.4S, 3S, 4.3S, 4.4S, 4AS, 4S, 201S, 404S)
0.025	76	Gravel roads HSG A (4.2S, 4.3S, 404S)
0.471	85	Gravel roads HSG B (3.21S, 3.2S, 3S, 4.1S, 4.2S, 4.3S, 4.5S, 4AS, 4S, 301AS, 301BS, 301CS, 301S, 302S, 404S)
0.001	89	Gravel roads HSG C (4AS)
0.385	98	Paved parking HSG A (4.2S, 4.3S, 4S, 201S, 404S)
2.208	98	Paved parking HSG B (1S, 2S, 3.1S, 3.2S, 3.3S, 3.4S, 3S, 4.1S, 4.2S, 4.3S, 4.5S, 4S, 201S, 301AS, 301BS, 301CS, 301S, 302S, 303S, 304S, 305S, 306S, 307S, 308S, 309S, 310S, 311S, 312S, 313S, 314S, 315S, 316S, 317S, 318S, 319S, 404S)
0.025	98	Paved parking HSG C (2S, 201S, 404S)
0.545	98	Roofs HSG A (4.2S, 4.3S, 404S)
0.979	98	Roofs HSG B (1S, 2S, 3.21S, 3.2S, 3.4S, 4.1S, 4.5S, 4S, 201S, 301AS, 301CS, 302S, 303S, 305S, 307S, 310S, 311S, 314S, 316S, 318S)
0.046	98	Roofs HSG C (2S, 4.2S, 404S)
0.029	98	Unconnected pavement HSG A (4S)
0.354	98	Unconnected pavement HSG B (3S, 4.1S, 4AS, 4S)
0.006	98	Unconnected pavement HSG C (4S)
0.031	98	Unconnected roofs HSG A (4S)
0.249	98	Unconnected roofs HSG B (3S, 4AS, 4S)
0.390	30	Woods, Good HSG A (4.2S, 4.4S, 4S, 201S, 317S)
19.275	55	Woods, Good HSG B (1S, 2S, 3.21S, 3.2S, 3.3S, 3S, 4.5S, 4AS, 4S, 201S, 301AS, 307S, 308S, 317S)
10.698	70	Woods, Good HSG C (1S, 2S, 3.2S, 3.3S, 3S, 4.4S, 4AS, 4S, 201S)
54.690	**62**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
8.056	HSG A	3.2S, 4.2S, 4.3S, 4.4S, 4S, 201S, 317S, 404S
33.291	HSG B	1S, 2S, 3.1S, 3.21S, 3.2S, 3.3S, 3.4S, 3S, 4.1S, 4.2S, 4.3S, 4.5S, 4AS, 4S, 201S, 301AS, 301BS, 301CS, 301S, 302S, 303S, 304S, 305S, 306S, 307S, 308S, 309S, 310S, 311S, 312S, 313S, 314S, 315S, 316S, 317S, 318S, 319S, 404S
13.343	HSG C	1S, 2S, 3.1S, 3.2S, 3.3S, 3.4S, 3S, 4.2S, 4.3S, 4.4S, 4AS, 4S, 201S, 404S
0.000	HSG D	
0.000	Other	
54.690		**TOTAL AREA**

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=277,292 sf 1.33% Impervious Runoff Depth=0.00"
Flow Length=818' Slope=0.1742 '/' Tc=12.1 min CN=57 Runoff=0.00 cfs 0.000 af

Subcatchment 2S: 2S Runoff Area=52,779 sf 17.97% Impervious Runoff Depth=0.00"
Flow Length=602' Slope=0.2204 '/' Tc=6.7 min CN=66 Runoff=0.00 cfs 0.000 af

Subcatchment 3.1S: 3.1S Runoff Area=17,437 sf 6.94% Impervious Runoff Depth=0.00"
Flow Length=81' Slope=0.1995 '/' Tc=6.0 min CN=70 Runoff=0.00 cfs 0.000 af

Subcatchment 3.21S: 3.21S Runoff Area=13,021 sf 13.58% Impervious Runoff Depth=0.01"
Flow Length=214' Slope=0.0780 '/' Tc=6.0 min CN=72 Runoff=0.00 cfs 0.000 af

Subcatchment 3.2S: 3.2S Runoff Area=176,677 sf 4.48% Impervious Runoff Depth=0.00"
Flow Length=633' Slope=0.2611 '/' Tc=7.5 min CN=60 Runoff=0.00 cfs 0.000 af

Subcatchment 3.3S: 3.3S Runoff Area=6,168 sf 14.42% Impervious Runoff Depth=0.00"
Flow Length=54' Slope=0.2423 '/' Tc=6.0 min CN=69 Runoff=0.00 cfs 0.000 af

Subcatchment 3.4S: 3.4S Runoff Area=15,974 sf 18.97% Impervious Runoff Depth=0.00"
Flow Length=136' Slope=0.1994 '/' Tc=6.0 min CN=68 Runoff=0.00 cfs 0.000 af

Subcatchment 3S: 3S Runoff Area=845,878 sf 1.73% Impervious Runoff Depth=0.00"
Flow Length=3,159' Slope=0.1416 '/' Tc=34.9 min CN=62 Runoff=0.00 cfs 0.000 af

Subcatchment 4.1S: 4.1S Runoff Area=11,814 sf 26.03% Impervious Runoff Depth=0.01"
Flow Length=205' Slope=0.1432 '/' Tc=6.0 min CN=71 Runoff=0.00 cfs 0.000 af

Subcatchment 4.2S: 4.2S Runoff Area=110,018 sf 21.18% Impervious Runoff Depth=0.00"
Flow Length=584' Slope=0.1103 '/' Tc=12.9 min CN=53 Runoff=0.00 cfs 0.000 af

Subcatchment 4.3S: 4.3S Runoff Area=23,406 sf 16.13% Impervious Runoff Depth=0.00"
Flow Length=62' Slope=0.0948 '/' Tc=6.0 min CN=52 Runoff=0.00 cfs 0.000 af

Subcatchment 4.4S: 4.4S Runoff Area=9,698 sf 0.00% Impervious Runoff Depth=0.00"
Flow Length=56' Slope=0.2163 '/' Tc=6.0 min CN=47 Runoff=0.00 cfs 0.000 af

Subcatchment 4.5S: 4.5S Runoff Area=12,534 sf 33.35% Impervious Runoff Depth=0.03"
Flow Length=126' Slope=0.1504 '/' Tc=6.0 min CN=75 Runoff=0.00 cfs 0.001 af

Subcatchment 4AS: FARM BROOK Runoff Area=58,364 sf 10.48% Impervious Runoff Depth=0.00"
Flow Length=351' Slope=0.0909 '/' Tc=6.3 min UI Adjusted CN=68 Runoff=0.00 cfs 0.000 af

Subcatchment 4S: 4S Runoff Area=256,690 sf 5.17% Impervious Runoff Depth=0.00"
Flow Length=741' Slope=0.0882 '/' Tc=12.8 min UI Adjusted CN=64 Runoff=0.00 cfs 0.000 af

Subcatchment 201S: 201S Runoff Area=50,760 sf 27.53% Impervious Runoff Depth=0.00"
Flow Length=322' Slope=0.2299 '/' Tc=6.0 min CN=70 Runoff=0.00 cfs 0.000 af

Subcatchment 301AS: 301AS Runoff Area=13,809 sf 13.61% Impervious Runoff Depth=0.00"
Flow Length=311' Slope=0.1106 '/' Tc=6.0 min CN=68 Runoff=0.00 cfs 0.000 af

Subcatchment 301BS: 301BS Runoff Area=10,428 sf 18.81% Impervious Runoff Depth=0.01"
Flow Length=299' Slope=0.1825 '/' Tc=6.0 min CN=72 Runoff=0.00 cfs 0.000 af

Subcatchment 301CS: 301CS Runoff Area=7,470 sf 39.41% Impervious Runoff Depth=0.04"
Flow Length=176' Slope=0.0710 '/' Tc=6.0 min CN=76 Runoff=0.00 cfs 0.001 af

Subcatchment 301S: 301S Runoff Area=6,008 sf 43.19% Impervious Runoff Depth=0.07"
Slope=0.1300 '/' Tc=0.0 min CN=79 Runoff=0.00 cfs 0.001 af

Subcatchment 302S: 302S Runoff Area=14,197 sf 38.96% Impervious Runoff Depth=0.04"
Flow Length=282' Slope=0.0895 '/' Tc=6.0 min CN=76 Runoff=0.00 cfs 0.001 af

Subcatchment 303S: 303S Runoff Area=7,986 sf 69.21% Impervious Runoff Depth=0.22"
Flow Length=292' Slope=0.1039 '/' Tc=6.0 min CN=87 Runoff=0.04 cfs 0.003 af

Subcatchment 304S: 304S Runoff Area=1,189 sf 95.45% Impervious Runoff Depth=0.63"
Flow Length=87' Slope=0.0804 '/' Tc=6.0 min CN=96 Runoff=0.02 cfs 0.001 af

Subcatchment 305S: 305S Runoff Area=8,354 sf 46.29% Impervious Runoff Depth=0.06"
Flow Length=160' Slope=0.1602 '/' Tc=6.0 min CN=78 Runoff=0.00 cfs 0.001 af

Subcatchment 306S: 306S Runoff Area=2,837 sf 45.51% Impervious Runoff Depth=0.06"
Flow Length=155' Slope=0.1022 '/' Tc=6.0 min CN=78 Runoff=0.00 cfs 0.000 af

Subcatchment 307S: 307S Runoff Area=12,665 sf 41.28% Impervious Runoff Depth=0.03"
Flow Length=172' Slope=0.1340 '/' Tc=6.0 min CN=75 Runoff=0.00 cfs 0.001 af

Subcatchment 308S: 308S Runoff Area=1,133 sf 78.61% Impervious Runoff Depth=0.32"
Flow Length=53' Slope=0.0873 '/' Tc=6.0 min CN=90 Runoff=0.01 cfs 0.001 af

Subcatchment 309S: 309S Runoff Area=3,397 sf 30.00% Impervious Runoff Depth=0.01"
Flow Length=228' Slope=0.0755 '/' Tc=6.0 min CN=72 Runoff=0.00 cfs 0.000 af

Subcatchment 310S: 310S Runoff Area=32,538 sf 21.44% Impervious Runoff Depth=0.00"
Flow Length=363' Slope=0.1757 '/' Tc=6.0 min CN=69 Runoff=0.00 cfs 0.000 af

Subcatchment 311S: 311S Runoff Area=6,344 sf 45.97% Impervious Runoff Depth=0.06"
Flow Length=185' Slope=0.0735 '/' Tc=6.0 min CN=78 Runoff=0.00 cfs 0.001 af

Subcatchment 312S: 312S Runoff Area=1,504 sf 100.00% Impervious Runoff Depth=0.79"
Flow Length=134' Slope=0.0561 '/' Tc=6.0 min CN=98 Runoff=0.03 cfs 0.002 af

Subcatchment 313S: 313S Runoff Area=446 sf 100.00% Impervious Runoff Depth=0.79"
Flow Length=60' Slope=0.0770 '/' Tc=6.0 min CN=98 Runoff=0.01 cfs 0.001 af

Subcatchment 314S: 314S Runoff Area=43,247 sf 23.40% Impervious Runoff Depth=0.00"
Flow Length=477' Slope=0.2236 '/' Tc=6.0 min CN=70 Runoff=0.00 cfs 0.000 af

Subcatchment 315S: 315S Runoff Area=1,240 sf 100.00% Impervious Runoff Depth=0.79"
Flow Length=133' Slope=0.0824 '/' Tc=6.0 min CN=98 Runoff=0.03 cfs 0.002 af

Subcatchment 316S: 316S Runoff Area=23,632 sf 29.04% Impervious Runoff Depth=0.01"
Slope=0.2261 '/' Tc=0.0 min CN=72 Runoff=0.00 cfs 0.001 af

Subcatchment 317S: 317S Runoff Area=20,053 sf 13.16% Impervious Runoff Depth=0.00"
Flow Length=362' Slope=0.2941 '/' Tc=6.0 min CN=62 Runoff=0.00 cfs 0.000 af

Subcatchment 318S: 318S Runoff Area=24,164 sf 32.70% Impervious Runoff Depth=0.02"
Flow Length=418' Slope=0.3268 '/' Tc=6.0 min CN=73 Runoff=0.00 cfs 0.001 af

Subcatchment 319S: 319S Runoff Area=2,016 sf 99.90% Impervious Runoff Depth=0.79"
Flow Length=175' Slope=0.0706 '/' Tc=6.0 min CN=98 Runoff=0.04 cfs 0.003 af

Subcatchment 404S: 404S Runoff Area=199,150 sf 12.48% Impervious Runoff Depth=0.00"
Flow Length=932' Slope=0.0932 '/' Tc=21.9 min CN=50 Runoff=0.00 cfs 0.000 af

Reach 3R: Hill Brook Avg. Flow Depth=0.00' Max Vel=0.00 fps Inflow=0.00 cfs 0.000 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=16.47 cfs Outflow=0.00 cfs 0.000 af

Reach 4R: Farm Brook Avg. Flow Depth=0.02' Max Vel=0.24 fps Inflow=0.01 cfs 0.004 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=50.25 cfs Outflow=0.01 cfs 0.004 af

Reach OP-1: Observation Point 1 Inflow=0.01 cfs 0.005 af
Outflow=0.01 cfs 0.005 af

Pond 1P: CB 100 Peak Elev=269.19' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0021 '/' Outflow=0.00 cfs 0.000 af

Pond 2P: CB 200 Peak Elev=270.42' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=47.0' S=0.0281 '/' Outflow=0.00 cfs 0.000 af

Pond 3.1AP: FOREBAY Peak Elev=292.09' Storage=195 cf Inflow=0.10 cfs 0.014 af
Discarded=0.01 cfs 0.014 af Primary=0.00 cfs 0.000 af Outflow=0.01 cfs 0.014 af

Pond 3.1BP: Stormwater Management Pond "C" Peak Elev=291.80' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 3.2P: Stormwater Management Pond "A" Peak Elev=278.71' Storage=17 cf Inflow=0.03 cfs 0.004 af
Discarded=0.02 cfs 0.004 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.004 af

Pond 3.3P: Stormwater Management Pond Peak Elev=266.45' Storage=335 cf Inflow=0.04 cfs 0.004 af
Outflow=0.01 cfs 0.004 af

Pond 3.4P: Stormwater Management Pond "I" Peak Elev=292.50' Storage=1 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 3P: HW 300 Peak Elev=261.97' Inflow=0.01 cfs 0.004 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=0.01 cfs 0.004 af

Pond 4.1P: Stormwater Management Pond Peak Elev=255.25' Storage=409 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 4.2AP: Forebay Peak Elev=256.60' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 4.2BP: Stormwater Management Pond "E" Peak Elev=256.60' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 4.3P: Stormwater Management Pond "D" Peak Elev=266.60' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 4.4P: Stormwater Management Pond "F" Peak Elev=242.83' Storage=0 cf Inflow=0.00 cfs 0.000 af
Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 4.5P: Stormwater Management Pond Peak Elev=253.27' Storage=391 cf Inflow=0.00 cfs 0.001 af
Outflow=0.00 cfs 0.001 af

Pond 201P: FES 201 Peak Elev=270.60' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=122.0' S=0.0213 '/' Outflow=0.00 cfs 0.000 af

Pond 301AP: FES 301A Peak Elev=340.40' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0560 '/' Outflow=0.00 cfs 0.000 af

Pond 301BP: CB 301B Peak Elev=338.26' Inflow=0.00 cfs 0.001 af
15.0" Round Culvert n=0.013 L=44.0' S=0.0511 '/' Outflow=0.00 cfs 0.001 af

Pond 301CP: FES 301C Peak Elev=340.02' Inflow=0.00 cfs 0.001 af
15.0" Round Culvert n=0.013 L=30.0' S=0.0333 '/' Outflow=0.00 cfs 0.001 af

Pond 301P: CB 301 Peak Elev=332.52' Inflow=0.00 cfs 0.002 af
15.0" Round Culvert n=0.013 L=220.5' S=0.0302 '/' Outflow=0.00 cfs 0.002 af

Pond 302P: CB 302 Peak Elev=324.75' Inflow=0.04 cfs 0.006 af
15.0" Round Culvert n=0.013 L=93.0' S=0.0500 '/' Outflow=0.04 cfs 0.006 af

Pond 303P: CB 303 Peak Elev=325.85' Inflow=0.04 cfs 0.003 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0500 '/' Outflow=0.04 cfs 0.003 af

Pond 304P: CB 304 Peak Elev=318.67' Inflow=0.06 cfs 0.008 af
15.0" Round Culvert n=0.013 L=105.0' S=0.0500 '/' Outflow=0.06 cfs 0.008 af

Pond 305P: CB 305 Peak Elev=319.47' Inflow=0.00 cfs 0.001 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0400 '/' Outflow=0.00 cfs 0.001 af

Pond 306P: CB 306 Peak Elev=313.33' Inflow=0.06 cfs 0.009 af
15.0" Round Culvert n=0.013 L=26.0' S=0.0404 '/' Outflow=0.06 cfs 0.009 af

Pond 307P: CB 307 Peak Elev=311.92' Inflow=0.06 cfs 0.009 af
18.0" Round Culvert n=0.013 L=56.0' S=0.0455 '/' Outflow=0.06 cfs 0.009 af

Pond 308P: CB 308 Peak Elev=309.28' Inflow=0.07 cfs 0.010 af
18.0" Round Culvert n=0.013 L=30.0' S=0.0500 '/' Outflow=0.07 cfs 0.010 af

Pond 309P: CB 309 Peak Elev=307.68' Inflow=0.07 cfs 0.010 af
18.0" Round Culvert n=0.013 L=95.0' S=0.0500 '/' Outflow=0.07 cfs 0.010 af

Pond 310P: CB 310 Peak Elev=302.83' Inflow=0.07 cfs 0.010 af
18.0" Round Culvert n=0.013 L=20.0' S=0.0200 '/' Outflow=0.07 cfs 0.010 af

Pond 311P: CB 311 Peak Elev=302.33' Inflow=0.07 cfs 0.011 af
18.0" Round Culvert n=0.013 L=140.0' S=0.0400 '/' Outflow=0.07 cfs 0.011 af

Pond 312P: CB 312 Peak Elev=296.66' Inflow=0.10 cfs 0.013 af
18.0" Round Culvert n=0.013 L=34.0' S=0.0206 '/' Outflow=0.10 cfs 0.013 af

Pond 313P: CB 313 Peak Elev=286.59' Inflow=0.01 cfs 0.001 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.01 cfs 0.001 af

Pond 314P: CB 314 Peak Elev=286.29' Inflow=0.01 cfs 0.001 af
15.0" Round Culvert n=0.013 L=112.0' S=0.0491 '/' Outflow=0.01 cfs 0.001 af

Pond 315P: CB 315 Peak Elev=281.03' Inflow=0.03 cfs 0.002 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.03 cfs 0.002 af

Pond 316P: CB 316 Peak Elev=280.74' Inflow=0.03 cfs 0.003 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0093 '/' Outflow=0.03 cfs 0.003 af

Pond 317P: FES 317 Peak Elev=271.50' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0925 '/' Outflow=0.00 cfs 0.000 af

Pond 318P: CB 318 Peak Elev=268.56' Inflow=0.00 cfs 0.001 af
15.0" Round Culvert n=0.013 L=21.0' S=0.0143 '/' Outflow=0.00 cfs 0.001 af

Pond 319P: CB 319 Peak Elev=268.26' Inflow=0.04 cfs 0.004 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0060 '/' Outflow=0.04 cfs 0.004 af

Pond 320P: FES 320 Peak Elev=351.50' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0207 '/' Outflow=0.00 cfs 0.000 af

Pond 404P: Culvert Peak Elev=244.60' Inflow=0.00 cfs 0.000 af
15.0" Round Culvert n=0.013 L=17.0' S=0.0647 '/' Outflow=0.00 cfs 0.000 af

Pond DMH-1: DMH-1 Peak Elev=280.24' Inflow=0.03 cfs 0.003 af
15.0" Round Culvert n=0.013 L=136.0' S=0.0107 '/' Outflow=0.03 cfs 0.003 af

Pond DMH-2: DMH-2 Peak Elev=268.75' Inflow=0.00 cfs 0.000 af
24.0" Round Culvert n=0.013 L=76.0' S=0.0211 '/' Outflow=0.00 cfs 0.000 af

Total Runoff Area = 54.690 ac Runoff Volume = 0.023 af Average Runoff Depth = 0.00"
91.12% Pervious = 49.832 ac 8.88% Impervious = 4.859 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=277,292 sf 1.33% Impervious Runoff Depth=0.23"
Flow Length=818' Slope=0.1742 '/' Tc=12.1 min CN=57 Runoff=0.56 cfs 0.121 af

Subcatchment 2S: 2S Runoff Area=52,779 sf 17.97% Impervious Runoff Depth=0.52"
Flow Length=602' Slope=0.2204 '/' Tc=6.7 min CN=66 Runoff=0.54 cfs 0.052 af

Subcatchment 3.1S: 3.1S Runoff Area=17,437 sf 6.94% Impervious Runoff Depth=0.68"
Flow Length=81' Slope=0.1995 '/' Tc=6.0 min CN=70 Runoff=0.28 cfs 0.023 af

Subcatchment 3.21S: 3.21S Runoff Area=13,021 sf 13.58% Impervious Runoff Depth=0.77"
Flow Length=214' Slope=0.0780 '/' Tc=6.0 min CN=72 Runoff=0.24 cfs 0.019 af

Subcatchment 3.2S: 3.2S Runoff Area=176,677 sf 4.48% Impervious Runoff Depth=0.31"
Flow Length=633' Slope=0.2611 '/' Tc=7.5 min CN=60 Runoff=0.64 cfs 0.105 af

Subcatchment 3.3S: 3.3S Runoff Area=6,168 sf 14.42% Impervious Runoff Depth=0.64"
Flow Length=54' Slope=0.2423 '/' Tc=6.0 min CN=69 Runoff=0.09 cfs 0.008 af

Subcatchment 3.4S: 3.4S Runoff Area=15,974 sf 18.97% Impervious Runoff Depth=0.60"
Flow Length=136' Slope=0.1994 '/' Tc=6.0 min CN=68 Runoff=0.21 cfs 0.018 af

Subcatchment 3S: 3S Runoff Area=845,878 sf 1.73% Impervious Runoff Depth=0.37"
Flow Length=3,159' Slope=0.1416 '/' Tc=34.9 min CN=62 Runoff=2.92 cfs 0.606 af

Subcatchment 4.1S: 4.1S Runoff Area=11,814 sf 26.03% Impervious Runoff Depth=0.73"
Flow Length=205' Slope=0.1432 '/' Tc=6.0 min CN=71 Runoff=0.20 cfs 0.016 af

Subcatchment 4.2S: 4.2S Runoff Area=110,018 sf 21.18% Impervious Runoff Depth=0.14"
Flow Length=584' Slope=0.1103 '/' Tc=12.9 min CN=53 Runoff=0.07 cfs 0.029 af

Subcatchment 4.3S: 4.3S Runoff Area=23,406 sf 16.13% Impervious Runoff Depth=0.12"
Flow Length=62' Slope=0.0948 '/' Tc=6.0 min CN=52 Runoff=0.01 cfs 0.005 af

Subcatchment 4.4S: 4.4S Runoff Area=9,698 sf 0.00% Impervious Runoff Depth=0.04"
Flow Length=56' Slope=0.2163 '/' Tc=6.0 min CN=47 Runoff=0.00 cfs 0.001 af

Subcatchment 4.5S: 4.5S Runoff Area=12,534 sf 33.35% Impervious Runoff Depth=0.92"
Flow Length=126' Slope=0.1504 '/' Tc=6.0 min CN=75 Runoff=0.29 cfs 0.022 af

Subcatchment 4AS: FARM BROOK Runoff Area=58,364 sf 10.48% Impervious Runoff Depth=0.60"
Flow Length=351' Slope=0.0909 '/' Tc=6.3 min UI Adjusted CN=68 Runoff=0.75 cfs 0.067 af

Subcatchment 4S: 4S Runoff Area=256,690 sf 5.17% Impervious Runoff Depth=0.44"
Flow Length=741' Slope=0.0882 '/' Tc=12.8 min UI Adjusted CN=64 Runoff=1.63 cfs 0.217 af

Subcatchment 201S: 201S Runoff Area=50,760 sf 27.53% Impervious Runoff Depth=0.68"
Flow Length=322' Slope=0.2299 '/' Tc=6.0 min CN=70 Runoff=0.80 cfs 0.066 af

Subcatchment 301AS: 301AS Runoff Area=13,809 sf 13.61% Impervious Runoff Depth=0.60"
Flow Length=311' Slope=0.1106 '/' Tc=6.0 min CN=68 Runoff=0.18 cfs 0.016 af

Subcatchment 301BS: 301BS Runoff Area=10,428 sf 18.81% Impervious Runoff Depth=0.77"
Flow Length=299' Slope=0.1825 '/' Tc=6.0 min CN=72 Runoff=0.19 cfs 0.015 af

Subcatchment 301CS: 301CS Runoff Area=7,470 sf 39.41% Impervious Runoff Depth=0.97"
Flow Length=176' Slope=0.0710 '/' Tc=6.0 min CN=76 Runoff=0.19 cfs 0.014 af

Subcatchment 301S: 301S Runoff Area=6,008 sf 43.19% Impervious Runoff Depth=1.14"
Slope=0.1300 '/' Tc=0.0 min CN=79 Runoff=0.22 cfs 0.013 af

Subcatchment 302S: 302S Runoff Area=14,197 sf 38.96% Impervious Runoff Depth=0.97"
Flow Length=282' Slope=0.0895 '/' Tc=6.0 min CN=76 Runoff=0.35 cfs 0.026 af

Subcatchment 303S: 303S Runoff Area=7,986 sf 69.21% Impervious Runoff Depth=1.69"
Flow Length=292' Slope=0.1039 '/' Tc=6.0 min CN=87 Runoff=0.36 cfs 0.026 af

Subcatchment 304S: 304S Runoff Area=1,189 sf 95.45% Impervious Runoff Depth=2.49"
Flow Length=87' Slope=0.0804 '/' Tc=6.0 min CN=96 Runoff=0.07 cfs 0.006 af

Subcatchment 305S: 305S Runoff Area=8,354 sf 46.29% Impervious Runoff Depth=1.09"
Flow Length=160' Slope=0.1602 '/' Tc=6.0 min CN=78 Runoff=0.24 cfs 0.017 af

Subcatchment 306S: 306S Runoff Area=2,837 sf 45.51% Impervious Runoff Depth=1.09"
Flow Length=155' Slope=0.1022 '/' Tc=6.0 min CN=78 Runoff=0.08 cfs 0.006 af

Subcatchment 307S: 307S Runoff Area=12,665 sf 41.28% Impervious Runoff Depth=0.92"
Flow Length=172' Slope=0.1340 '/' Tc=6.0 min CN=75 Runoff=0.30 cfs 0.022 af

Subcatchment 308S: 308S Runoff Area=1,133 sf 78.61% Impervious Runoff Depth=1.93"
Flow Length=53' Slope=0.0873 '/' Tc=6.0 min CN=90 Runoff=0.06 cfs 0.004 af

Subcatchment 309S: 309S Runoff Area=3,397 sf 30.00% Impervious Runoff Depth=0.77"
Flow Length=228' Slope=0.0755 '/' Tc=6.0 min CN=72 Runoff=0.06 cfs 0.005 af

Subcatchment 310S: 310S Runoff Area=32,538 sf 21.44% Impervious Runoff Depth=0.64"
Flow Length=363' Slope=0.1757 '/' Tc=6.0 min CN=69 Runoff=0.47 cfs 0.040 af

Subcatchment 311S: 311S Runoff Area=6,344 sf 45.97% Impervious Runoff Depth=1.09"
Flow Length=185' Slope=0.0735 '/' Tc=6.0 min CN=78 Runoff=0.18 cfs 0.013 af

Subcatchment 312S: 312S Runoff Area=1,504 sf 100.00% Impervious Runoff Depth=2.71"
Flow Length=134' Slope=0.0561 '/' Tc=6.0 min CN=98 Runoff=0.10 cfs 0.008 af

Subcatchment 313S: 313S Runoff Area=446 sf 100.00% Impervious Runoff Depth=2.71"
Flow Length=60' Slope=0.0770 '/' Tc=6.0 min CN=98 Runoff=0.03 cfs 0.002 af

Subcatchment 314S: 314S Runoff Area=43,247 sf 23.40% Impervious Runoff Depth=0.68"
Flow Length=477' Slope=0.2236 '/' Tc=6.0 min CN=70 Runoff=0.68 cfs 0.056 af

Subcatchment 315S: 315S Runoff Area=1,240 sf 100.00% Impervious Runoff Depth=2.71"
Flow Length=133' Slope=0.0824 '/' Tc=6.0 min CN=98 Runoff=0.08 cfs 0.006 af

Subcatchment 316S: 316S Runoff Area=23,632 sf 29.04% Impervious Runoff Depth=0.77"
Slope=0.2261 '/' Tc=0.0 min CN=72 Runoff=0.54 cfs 0.035 af

Subcatchment 317S: 317S Runoff Area=20,053 sf 13.16% Impervious Runoff Depth=0.37"
Flow Length=362' Slope=0.2941 '/' Tc=6.0 min CN=62 Runoff=0.12 cfs 0.014 af

Subcatchment 318S: 318S Runoff Area=24,164 sf 32.70% Impervious Runoff Depth=0.82"
Flow Length=418' Slope=0.3268 '/' Tc=6.0 min CN=73 Runoff=0.49 cfs 0.038 af

Subcatchment 319S: 319S Runoff Area=2,016 sf 99.90% Impervious Runoff Depth=2.71"
Flow Length=175' Slope=0.0706 '/' Tc=6.0 min CN=98 Runoff=0.13 cfs 0.010 af

Subcatchment 404S: 404S Runoff Area=199,150 sf 12.48% Impervious Runoff Depth=0.08"
Flow Length=932' Slope=0.0932 '/' Tc=21.9 min CN=50 Runoff=0.05 cfs 0.031 af

Reach 3R: Hill Brook Avg. Flow Depth=0.38' Max Vel=1.46 fps Inflow=2.92 cfs 0.606 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=16.47 cfs Outflow=2.08 cfs 0.606 af

Reach 4R: Farm Brook Avg. Flow Depth=0.24' Max Vel=1.26 fps Inflow=2.25 cfs 0.743 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=50.25 cfs Outflow=2.23 cfs 0.743 af

Reach OP-1: Observation Point 1 Inflow=2.75 cfs 1.030 af
Outflow=2.75 cfs 1.030 af

Pond 1P: CB 100 Peak Elev=269.67' Inflow=0.56 cfs 0.121 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0021 '/' Outflow=0.56 cfs 0.121 af

Pond 2P: CB 200 Peak Elev=270.81' Inflow=0.54 cfs 0.052 af
15.0" Round Culvert n=0.013 L=47.0' S=0.0281 '/' Outflow=0.54 cfs 0.052 af

Pond 3.1AP: FOREBAY Peak Elev=294.81' Storage=5,146 cf Inflow=3.21 cfs 0.254 af
Discarded=0.06 cfs 0.174 af Primary=0.38 cfs 0.081 af Outflow=0.44 cfs 0.254 af

Pond 3.1BP: Stormwater Management Pond Peak Elev=292.75' Storage=1,729 cf Inflow=0.38 cfs 0.081 af
Discarded=0.10 cfs 0.081 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.10 cfs 0.081 af

Pond 3.2P: Stormwater Management Pond Peak Elev=280.02' Storage=2,443 cf Inflow=1.80 cfs 0.225 af
Discarded=0.46 cfs 0.225 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.46 cfs 0.225 af

Pond 3.3P: Stormwater Management Pond Peak Elev=269.94' Storage=1,800 cf Inflow=0.81 cfs 0.070 af
Outflow=0.05 cfs 0.070 af

Pond 3.4P: Stormwater Management Pond "I" Peak Elev=293.53' Storage=793 cf Inflow=0.21 cfs 0.018 af
Outflow=0.00 cfs 0.000 af

Pond 3P: HW 300 Peak Elev=262.65' Inflow=2.13 cfs 0.677 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=2.13 cfs 0.677 af

Pond 4.1P: Stormwater Management Pond Peak Elev=256.07' Storage=675 cf Inflow=0.20 cfs 0.016 af
Outflow=0.02 cfs 0.016 af

Pond 4.2AP: Forebay Peak Elev=257.98' Storage=1,023 cf Inflow=0.80 cfs 0.095 af
Discarded=0.14 cfs 0.095 af Primary=0.00 cfs 0.000 af Outflow=0.14 cfs 0.095 af

Pond 4.2BP: Stormwater Management Pond "E" Peak Elev=256.60' Storage=0 cf Inflow=0.00 cfs 0.000 af
Discarded=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.00 cfs 0.000 af

Pond 4.3P: Stormwater Management Pond Peak Elev=266.93' Storage=1,297 cf Inflow=0.86 cfs 0.178 af
Discarded=0.28 cfs 0.178 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.28 cfs 0.178 af

Pond 4.4P: Stormwater Management Pond "F" Peak Elev=243.99' Storage=512 cf Inflow=0.05 cfs 0.031 af
Primary=0.02 cfs 0.031 af Secondary=0.00 cfs 0.000 af Outflow=0.02 cfs 0.031 af

Pond 4.5P: Stormwater Management Pond Peak Elev=255.01' Storage=754 cf Inflow=0.29 cfs 0.022 af
Outflow=0.03 cfs 0.022 af

Pond 201P: FES 201 Peak Elev=271.08' Inflow=0.80 cfs 0.066 af
15.0" Round Culvert n=0.013 L=122.0' S=0.0213 '/' Outflow=0.80 cfs 0.066 af

Pond 301AP: FES 301A Peak Elev=340.62' Inflow=0.18 cfs 0.016 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0560 '/' Outflow=0.18 cfs 0.016 af

Pond 301BP: CB 301B Peak Elev=338.64' Inflow=0.56 cfs 0.045 af
15.0" Round Culvert n=0.013 L=44.0' S=0.0511 '/' Outflow=0.56 cfs 0.045 af

Pond 301CP: FES 301C Peak Elev=340.22' Inflow=0.19 cfs 0.014 af
15.0" Round Culvert n=0.013 L=30.0' S=0.0333 '/' Outflow=0.19 cfs 0.014 af

Pond 301P: CB 301 Peak Elev=332.93' Inflow=0.67 cfs 0.058 af
15.0" Round Culvert n=0.013 L=220.5' S=0.0302 '/' Outflow=0.67 cfs 0.058 af

Pond 302P: CB 302 Peak Elev=325.30' Inflow=1.39 cfs 0.110 af
15.0" Round Culvert n=0.013 L=93.0' S=0.0500 '/' Outflow=1.39 cfs 0.110 af

Pond 303P: CB 303 Peak Elev=326.06' Inflow=0.36 cfs 0.026 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0500 '/' Outflow=0.36 cfs 0.026 af

Pond 304P: CB 304 Peak Elev=319.28' Inflow=1.70 cfs 0.134 af
15.0" Round Culvert n=0.013 L=105.0' S=0.0500 '/' Outflow=1.70 cfs 0.134 af

Pond 305P: CB 305 Peak Elev=319.70' Inflow=0.24 cfs 0.017 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0400 '/' Outflow=0.24 cfs 0.017 af

Pond 306P: CB 306 Peak Elev=313.95' Inflow=1.78 cfs 0.139 af
15.0" Round Culvert n=0.013 L=26.0' S=0.0404 '/' Outflow=1.78 cfs 0.139 af

Pond 307P: CB 307 Peak Elev=312.55' Inflow=2.07 cfs 0.162 af
18.0" Round Culvert n=0.013 L=56.0' S=0.0455 '/' Outflow=2.07 cfs 0.162 af

Pond 308P: CB 308 Peak Elev=309.92' Inflow=2.13 cfs 0.166 af
18.0" Round Culvert n=0.013 L=30.0' S=0.0500 '/' Outflow=2.13 cfs 0.166 af

Pond 309P: CB 309 Peak Elev=308.33' Inflow=2.20 cfs 0.171 af
18.0" Round Culvert n=0.013 L=95.0' S=0.0500 '/' Outflow=2.20 cfs 0.171 af

Pond 310P: CB 310 Peak Elev=303.57' Inflow=2.66 cfs 0.211 af
18.0" Round Culvert n=0.013 L=20.0' S=0.0200 '/' Outflow=2.66 cfs 0.211 af

Pond 311P: CB 311 Peak Elev=303.10' Inflow=2.84 cfs 0.224 af
18.0" Round Culvert n=0.013 L=140.0' S=0.0400 '/' Outflow=2.84 cfs 0.224 af

Pond 312P: CB 312 Peak Elev=297.42' Inflow=2.94 cfs 0.232 af
18.0" Round Culvert n=0.013 L=34.0' S=0.0206 '/' Outflow=2.94 cfs 0.232 af

Pond 313P: CB 313 Peak Elev=286.63' Inflow=0.03 cfs 0.002 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.03 cfs 0.002 af

Pond 314P: CB 314 Peak Elev=286.70' Inflow=0.71 cfs 0.059 af
15.0" Round Culvert n=0.013 L=112.0' S=0.0491 '/' Outflow=0.71 cfs 0.059 af

Pond 315P: CB 315 Peak Elev=281.09' Inflow=0.08 cfs 0.006 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.08 cfs 0.006 af

Pond 316P: CB 316 Peak Elev=281.22' Inflow=1.11 cfs 0.100 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0093 '/' Outflow=1.11 cfs 0.100 af

Pond 317P: FES 317 Peak Elev=271.67' Inflow=0.12 cfs 0.014 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0925 '/' Outflow=0.12 cfs 0.014 af

Pond 318P: CB 318 Peak Elev=268.96' Inflow=0.60 cfs 0.052 af
15.0" Round Culvert n=0.013 L=21.0' S=0.0143 '/' Outflow=0.60 cfs 0.052 af

Pond 319P: CB 319 Peak Elev=268.63' Inflow=0.73 cfs 0.063 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0060 '/' Outflow=0.73 cfs 0.063 af

Pond 320P: FES 320 Peak Elev=351.75' Inflow=0.24 cfs 0.019 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0207 '/' Outflow=0.24 cfs 0.019 af

Pond 404P: Culvert Peak Elev=244.71' Inflow=0.05 cfs 0.031 af
15.0" Round Culvert n=0.013 L=17.0' S=0.0647 '/' Outflow=0.05 cfs 0.031 af

Pond DMH-1: DMH-1 Peak Elev=280.72' Inflow=1.11 cfs 0.100 af
15.0" Round Culvert n=0.013 L=136.0' S=0.0107 '/' Outflow=1.11 cfs 0.100 af

Pond DMH-2: DMH-2 Peak Elev=268.75' Inflow=0.00 cfs 0.000 af
24.0" Round Culvert n=0.013 L=76.0' S=0.0211 '/' Outflow=0.00 cfs 0.000 af

Total Runoff Area = 54.690 ac Runoff Volume = 1.801 af Average Runoff Depth = 0.40"
91.12% Pervious = 49.832 ac 8.88% Impervious = 4.859 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=277,292 sf 1.33% Impervious Runoff Depth=0.79"
Flow Length=818' Slope=0.1742 '/' Tc=12.1 min CN=57 Runoff=3.64 cfs 0.420 af

Subcatchment 2S: 2S Runoff Area=52,779 sf 17.97% Impervious Runoff Depth=1.32"
Flow Length=602' Slope=0.2204 '/' Tc=6.7 min CN=66 Runoff=1.70 cfs 0.133 af

Subcatchment 3.1S: 3.1S Runoff Area=17,437 sf 6.94% Impervious Runoff Depth=1.59"
Flow Length=81' Slope=0.1995 '/' Tc=6.0 min CN=70 Runoff=0.72 cfs 0.053 af

Subcatchment 3.21S: 3.21S Runoff Area=13,021 sf 13.58% Impervious Runoff Depth=1.73"
Flow Length=214' Slope=0.0780 '/' Tc=6.0 min CN=72 Runoff=0.59 cfs 0.043 af

Subcatchment 3.2S: 3.2S Runoff Area=176,677 sf 4.48% Impervious Runoff Depth=0.96"
Flow Length=633' Slope=0.2611 '/' Tc=7.5 min CN=60 Runoff=3.61 cfs 0.323 af

Subcatchment 3.3S: 3.3S Runoff Area=6,168 sf 14.42% Impervious Runoff Depth=1.52"
Flow Length=54' Slope=0.2423 '/' Tc=6.0 min CN=69 Runoff=0.24 cfs 0.018 af

Subcatchment 3.4S: 3.4S Runoff Area=15,974 sf 18.97% Impervious Runoff Depth=1.45"
Flow Length=136' Slope=0.1994 '/' Tc=6.0 min CN=68 Runoff=0.59 cfs 0.044 af

Subcatchment 3S: 3S Runoff Area=845,878 sf 1.73% Impervious Runoff Depth=1.07"
Flow Length=3,159' Slope=0.1416 '/' Tc=34.9 min CN=62 Runoff=11.32 cfs 1.734 af

Subcatchment 4.1S: 4.1S Runoff Area=11,814 sf 26.03% Impervious Runoff Depth=1.66"
Flow Length=205' Slope=0.1432 '/' Tc=6.0 min CN=71 Runoff=0.51 cfs 0.038 af

Subcatchment 4.2S: 4.2S Runoff Area=110,018 sf 21.18% Impervious Runoff Depth=0.59"
Flow Length=584' Slope=0.1103 '/' Tc=12.9 min CN=53 Runoff=0.86 cfs 0.125 af

Subcatchment 4.3S: 4.3S Runoff Area=23,406 sf 16.13% Impervious Runoff Depth=0.55"
Flow Length=62' Slope=0.0948 '/' Tc=6.0 min CN=52 Runoff=0.19 cfs 0.024 af

Subcatchment 4.4S: 4.4S Runoff Area=9,698 sf 0.00% Impervious Runoff Depth=0.34"
Flow Length=56' Slope=0.2163 '/' Tc=6.0 min CN=47 Runoff=0.03 cfs 0.006 af

Subcatchment 4.5S: 4.5S Runoff Area=12,534 sf 33.35% Impervious Runoff Depth=1.96"
Flow Length=126' Slope=0.1504 '/' Tc=6.0 min CN=75 Runoff=0.65 cfs 0.047 af

Subcatchment 4AS: FARM BROOK Runoff Area=58,364 sf 10.48% Impervious Runoff Depth=1.45"
Flow Length=351' Slope=0.0909 '/' Tc=6.3 min UI Adjusted CN=68 Runoff=2.15 cfs 0.162 af

Subcatchment 4S: 4S Runoff Area=256,690 sf 5.17% Impervious Runoff Depth=1.19"
Flow Length=741' Slope=0.0882 '/' Tc=12.8 min UI Adjusted CN=64 Runoff=5.95 cfs 0.586 af

Subcatchment 201S: 201S Runoff Area=50,760 sf 27.53% Impervious Runoff Depth=1.59"
Flow Length=322' Slope=0.2299 '/' Tc=6.0 min CN=70 Runoff=2.10 cfs 0.154 af

Subcatchment 301AS: 301AS Runoff Area=13,809 sf 13.61% Impervious Runoff Depth=1.45"
Flow Length=311' Slope=0.1106 '/' Tc=6.0 min CN=68 Runoff=0.51 cfs 0.038 af

Subcatchment 301BS: 301BS Runoff Area=10,428 sf 18.81% Impervious Runoff Depth=1.73"
Flow Length=299' Slope=0.1825 '/' Tc=6.0 min CN=72 Runoff=0.48 cfs 0.035 af

Subcatchment 301CS: 301CS Runoff Area=7,470 sf 39.41% Impervious Runoff Depth=2.03"
Flow Length=176' Slope=0.0710 '/' Tc=6.0 min CN=76 Runoff=0.41 cfs 0.029 af

Subcatchment 301S: 301S Runoff Area=6,008 sf 43.19% Impervious Runoff Depth=2.28"
Slope=0.1300 '/' Tc=0.0 min CN=79 Runoff=0.45 cfs 0.026 af

Subcatchment 302S: 302S Runoff Area=14,197 sf 38.96% Impervious Runoff Depth=2.03"
Flow Length=282' Slope=0.0895 '/' Tc=6.0 min CN=76 Runoff=0.77 cfs 0.055 af

Subcatchment 303S: 303S Runoff Area=7,986 sf 69.21% Impervious Runoff Depth=2.99"
Flow Length=292' Slope=0.1039 '/' Tc=6.0 min CN=87 Runoff=0.63 cfs 0.046 af

Subcatchment 304S: 304S Runoff Area=1,189 sf 95.45% Impervious Runoff Depth=3.92"
Flow Length=87' Slope=0.0804 '/' Tc=6.0 min CN=96 Runoff=0.11 cfs 0.009 af

Subcatchment 305S: 305S Runoff Area=8,354 sf 46.29% Impervious Runoff Depth=2.19"
Flow Length=160' Slope=0.1602 '/' Tc=6.0 min CN=78 Runoff=0.49 cfs 0.035 af

Subcatchment 306S: 306S Runoff Area=2,837 sf 45.51% Impervious Runoff Depth=2.19"
Flow Length=155' Slope=0.1022 '/' Tc=6.0 min CN=78 Runoff=0.17 cfs 0.012 af

Subcatchment 307S: 307S Runoff Area=12,665 sf 41.28% Impervious Runoff Depth=1.96"
Flow Length=172' Slope=0.1340 '/' Tc=6.0 min CN=75 Runoff=0.66 cfs 0.047 af

Subcatchment 308S: 308S Runoff Area=1,133 sf 78.61% Impervious Runoff Depth=3.28"
Flow Length=53' Slope=0.0873 '/' Tc=6.0 min CN=90 Runoff=0.10 cfs 0.007 af

Subcatchment 309S: 309S Runoff Area=3,397 sf 30.00% Impervious Runoff Depth=1.73"
Flow Length=228' Slope=0.0755 '/' Tc=6.0 min CN=72 Runoff=0.16 cfs 0.011 af

Subcatchment 310S: 310S Runoff Area=32,538 sf 21.44% Impervious Runoff Depth=1.52"
Flow Length=363' Slope=0.1757 '/' Tc=6.0 min CN=69 Runoff=1.28 cfs 0.095 af

Subcatchment 311S: 311S Runoff Area=6,344 sf 45.97% Impervious Runoff Depth=2.19"
Flow Length=185' Slope=0.0735 '/' Tc=6.0 min CN=78 Runoff=0.37 cfs 0.027 af

Subcatchment 312S: 312S Runoff Area=1,504 sf 100.00% Impervious Runoff Depth=4.14"
Flow Length=134' Slope=0.0561 '/' Tc=6.0 min CN=98 Runoff=0.15 cfs 0.012 af

Subcatchment 313S: 313S Runoff Area=446 sf 100.00% Impervious Runoff Depth=4.14"
Flow Length=60' Slope=0.0770 '/' Tc=6.0 min CN=98 Runoff=0.04 cfs 0.004 af

Subcatchment 314S: 314S Runoff Area=43,247 sf 23.40% Impervious Runoff Depth=1.59"
Flow Length=477' Slope=0.2236 '/' Tc=6.0 min CN=70 Runoff=1.79 cfs 0.131 af

Subcatchment 315S: 315S Runoff Area=1,240 sf 100.00% Impervious Runoff Depth=4.14"
Flow Length=133' Slope=0.0824 '/' Tc=6.0 min CN=98 Runoff=0.12 cfs 0.010 af

Subcatchment 316S: 316S Runoff Area=23,632 sf 29.04% Impervious Runoff Depth=1.73"
Slope=0.2261 '/' Tc=0.0 min CN=72 Runoff=1.32 cfs 0.078 af

Subcatchment 317S: 317S Runoff Area=20,053 sf 13.16% Impervious Runoff Depth=1.07"
Flow Length=362' Slope=0.2941 '/' Tc=6.0 min CN=62 Runoff=0.51 cfs 0.041 af

Subcatchment 318S: 318S Runoff Area=24,164 sf 32.70% Impervious Runoff Depth=1.81"
Flow Length=418' Slope=0.3268 '/' Tc=6.0 min CN=73 Runoff=1.16 cfs 0.083 af

Subcatchment 319S: 319S Runoff Area=2,016 sf 99.90% Impervious Runoff Depth=4.14"
Flow Length=175' Slope=0.0706 '/' Tc=6.0 min CN=98 Runoff=0.20 cfs 0.016 af

Subcatchment 404S: 404S Runoff Area=199,150 sf 12.48% Impervious Runoff Depth=0.46"
Flow Length=932' Slope=0.0932 '/' Tc=21.9 min CN=50 Runoff=0.88 cfs 0.174 af

Reach 3R: Hill Brook Avg. Flow Depth=0.77' Max Vel=2.31 fps Inflow=11.32 cfs 1.734 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=16.47 cfs Outflow=9.35 cfs 1.734 af

Reach 4R: Farm Brook Avg. Flow Depth=0.47' Max Vel=2.00 fps Inflow=10.05 cfs 2.124 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=50.25 cfs Outflow=10.01 cfs 2.124 af

Reach OP-1: Observation Point 1 Inflow=11.63 cfs 2.983 af
Outflow=11.63 cfs 2.983 af

Pond 1P: CB 100 Peak Elev=270.61' Inflow=3.64 cfs 0.420 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0021 '/' Outflow=3.64 cfs 0.420 af

Pond 2P: CB 200 Peak Elev=271.15' Inflow=1.70 cfs 0.133 af
15.0" Round Culvert n=0.013 L=47.0' S=0.0281 '/' Outflow=1.70 cfs 0.133 af

Pond 3.1AP: FOREBAY Peak Elev=295.10' Storage=6,051 cf Inflow=7.23 cfs 0.537 af
Discarded=0.06 cfs 0.178 af Primary=5.62 cfs 0.359 af Outflow=5.68 cfs 0.537 af

Pond 3.1BP: Stormwater Management Pond Peak Elev=294.76' Storage=9,704 cf Inflow=5.62 cfs 0.359 af
Discarded=0.13 cfs 0.304 af Primary=0.16 cfs 0.055 af Secondary=0.00 cfs 0.000 af Outflow=0.29 cfs 0.359 af

Pond 3.2P: Stormwater Management Pond Peak Elev=281.60' Storage=8,581 cf Inflow=6.64 cfs 0.589 af
Discarded=1.12 cfs 0.589 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=1.12 cfs 0.589 af

Pond 3.3P: Stormwater Management Pond Peak Elev=270.82' Storage=3,002 cf Inflow=2.10 cfs 0.159 af
Outflow=0.55 cfs 0.159 af

Pond 3.4P: Stormwater Management Pond Peak Elev=294.01' Storage=1,345 cf Inflow=0.59 cfs 0.044 af
Outflow=0.04 cfs 0.014 af

Pond 3P: HW 300 Peak Elev=265.26' Inflow=9.72 cfs 1.962 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=9.72 cfs 1.962 af

Pond 4.1P: Stormwater Management Pond Peak Elev=257.63' Storage=1,176 cf Inflow=0.51 cfs 0.038 af
Outflow=0.04 cfs 0.038 af

Pond 4.2AP: Forebay Peak Elev=259.80' Storage=3,519 cf Inflow=2.47 cfs 0.279 af
Discarded=0.25 cfs 0.235 af Primary=0.80 cfs 0.044 af Outflow=1.04 cfs 0.279 af

Pond 4.2BP: Stormwater Management Pond Peak Elev=257.02' Storage=839 cf Inflow=0.80 cfs 0.044 af
Discarded=0.15 cfs 0.044 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=0.15 cfs 0.044 af

Pond 4.3P: Stormwater Management Pond Peak Elev=268.70' Storage=10,510 cf Inflow=5.07 cfs 0.578 af
Discarded=0.56 cfs 0.569 af Primary=0.04 cfs 0.009 af Secondary=0.00 cfs 0.000 af Outflow=0.59 cfs 0.578 af

Pond 4.4P: Stormwater Management Pond Peak Elev=245.01' Storage=2,443 cf Inflow=0.90 cfs 0.181 af
Primary=0.27 cfs 0.179 af Secondary=0.02 cfs 0.001 af Outflow=0.29 cfs 0.180 af

Pond 4.5P: Stormwater Management Pond Peak Elev=255.71' Storage=1,233 cf Inflow=0.65 cfs 0.047 af
Outflow=0.14 cfs 0.047 af

Pond 201P: FES 201 Peak Elev=271.43' Inflow=2.10 cfs 0.154 af
15.0" Round Culvert n=0.013 L=122.0' S=0.0213 '/' Outflow=2.10 cfs 0.154 af

Pond 301AP: FES 301A Peak Elev=340.78' Inflow=0.51 cfs 0.038 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0560 '/' Outflow=0.51 cfs 0.038 af

Pond 301BP: CB 301B Peak Elev=338.90' Inflow=1.40 cfs 0.102 af
15.0" Round Culvert n=0.013 L=44.0' S=0.0511 '/' Outflow=1.40 cfs 0.102 af

Pond 301CP: FES 301C Peak Elev=340.33' Inflow=0.41 cfs 0.029 af
15.0" Round Culvert n=0.013 L=30.0' S=0.0333 '/' Outflow=0.41 cfs 0.029 af

Pond 301P: CB 301 Peak Elev=333.21' Inflow=1.63 cfs 0.128 af
15.0" Round Culvert n=0.013 L=220.5' S=0.0302 '/' Outflow=1.63 cfs 0.128 af

Pond 302P: CB 302 Peak Elev=325.70' Inflow=3.03 cfs 0.229 af
15.0" Round Culvert n=0.013 L=93.0' S=0.0500 '/' Outflow=3.03 cfs 0.229 af

Pond 303P: CB 303 Peak Elev=326.17' Inflow=0.63 cfs 0.046 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0500 '/' Outflow=0.63 cfs 0.046 af

Pond 304P: CB 304 Peak Elev=319.78' Inflow=3.64 cfs 0.273 af
15.0" Round Culvert n=0.013 L=105.0' S=0.0500 '/' Outflow=3.64 cfs 0.273 af

Pond 305P: CB 305 Peak Elev=319.82' Inflow=0.49 cfs 0.035 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0400 '/' Outflow=0.49 cfs 0.035 af

Pond 306P: CB 306 Peak Elev=314.49' Inflow=3.81 cfs 0.285 af
15.0" Round Culvert n=0.013 L=26.0' S=0.0404 '/' Outflow=3.81 cfs 0.285 af

Pond 307P: CB 307 Peak Elev=313.00' Inflow=4.47 cfs 0.332 af
18.0" Round Culvert n=0.013 L=56.0' S=0.0455 '/' Outflow=4.47 cfs 0.332 af

Pond 308P: CB 308 Peak Elev=310.37' Inflow=4.56 cfs 0.339 af
18.0" Round Culvert n=0.013 L=30.0' S=0.0500 '/' Outflow=4.56 cfs 0.339 af

Pond 309P: CB 309 Peak Elev=308.80' Inflow=4.72 cfs 0.351 af
18.0" Round Culvert n=0.013 L=95.0' S=0.0500 '/' Outflow=4.72 cfs 0.351 af

Pond 310P: CB 310 Peak Elev=304.25' Inflow=5.99 cfs 0.445 af
18.0" Round Culvert n=0.013 L=20.0' S=0.0200 '/' Outflow=5.99 cfs 0.445 af

Pond 311P: CB 311 Peak Elev=303.85' Inflow=6.36 cfs 0.472 af
18.0" Round Culvert n=0.013 L=140.0' S=0.0400 '/' Outflow=6.36 cfs 0.472 af

Pond 312P: CB 312 Peak Elev=298.19' Inflow=6.51 cfs 0.484 af
18.0" Round Culvert n=0.013 L=34.0' S=0.0206 '/' Outflow=6.51 cfs 0.484 af

Pond 313P: CB 313 Peak Elev=286.65' Inflow=0.04 cfs 0.004 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.04 cfs 0.004 af

Pond 314P: CB 314 Peak Elev=287.01' Inflow=1.83 cfs 0.135 af
15.0" Round Culvert n=0.013 L=112.0' S=0.0491 '/' Outflow=1.83 cfs 0.135 af

Pond 315P: CB 315 Peak Elev=281.13' Inflow=0.12 cfs 0.010 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.12 cfs 0.010 af

Pond 316P: CB 316 Peak Elev=281.63' Inflow=2.73 cfs 0.223 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0093 '/' Outflow=2.73 cfs 0.223 af

Pond 317P: FES 317 Peak Elev=271.87' Inflow=0.51 cfs 0.041 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0925 '/' Outflow=0.51 cfs 0.041 af

Pond 318P: CB 318 Peak Elev=269.27' Inflow=1.66 cfs 0.125 af
15.0" Round Culvert n=0.013 L=21.0' S=0.0143 '/' Outflow=1.66 cfs 0.125 af

Pond 319P: CB 319 Peak Elev=268.98' Inflow=1.86 cfs 0.141 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0060 '/' Outflow=1.86 cfs 0.141 af

Pond 320P: FES 320 Peak Elev=351.91' Inflow=0.59 cfs 0.043 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0207 '/' Outflow=0.59 cfs 0.043 af

Pond 404P: Culvert Peak Elev=245.10' Inflow=0.88 cfs 0.174 af
15.0" Round Culvert n=0.013 L=17.0' S=0.0647 '/' Outflow=0.88 cfs 0.174 af

Pond DMH-1: DMH-1 Peak Elev=281.13' Inflow=2.73 cfs 0.223 af
15.0" Round Culvert n=0.013 L=136.0' S=0.0107 '/' Outflow=2.73 cfs 0.223 af

Pond DMH-2: DMH-2 Peak Elev=268.75' Inflow=0.00 cfs 0.000 af
24.0" Round Culvert n=0.013 L=76.0' S=0.0211 '/' Outflow=0.00 cfs 0.000 af

Total Runoff Area = 54.690 ac Runoff Volume = 4.933 af Average Runoff Depth = 1.08"
91.12% Pervious = 49.832 ac 8.88% Impervious = 4.859 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=277,292 sf 1.33% Impervious Runoff Depth=1.39"
Flow Length=818' Slope=0.1742 '/' Tc=12.1 min CN=57 Runoff=7.44 cfs 0.736 af

Subcatchment 2S: 2S Runoff Area=52,779 sf 17.97% Impervious Runoff Depth=2.08"
Flow Length=602' Slope=0.2204 '/' Tc=6.7 min CN=66 Runoff=2.81 cfs 0.210 af

Subcatchment 3.1S: 3.1S Runoff Area=17,437 sf 6.94% Impervious Runoff Depth=2.42"
Flow Length=81' Slope=0.1995 '/' Tc=6.0 min CN=70 Runoff=1.13 cfs 0.081 af

Subcatchment 3.21S: 3.21S Runoff Area=13,021 sf 13.58% Impervious Runoff Depth=2.60"
Flow Length=214' Slope=0.0780 '/' Tc=6.0 min CN=72 Runoff=0.91 cfs 0.065 af

Subcatchment 3.2S: 3.2S Runoff Area=176,677 sf 4.48% Impervious Runoff Depth=1.61"
Flow Length=633' Slope=0.2611 '/' Tc=7.5 min CN=60 Runoff=6.70 cfs 0.544 af

Subcatchment 3.3S: 3.3S Runoff Area=6,168 sf 14.42% Impervious Runoff Depth=2.34"
Flow Length=54' Slope=0.2423 '/' Tc=6.0 min CN=69 Runoff=0.38 cfs 0.028 af

Subcatchment 3.4S: 3.4S Runoff Area=15,974 sf 18.97% Impervious Runoff Depth=2.25"
Flow Length=136' Slope=0.1994 '/' Tc=6.0 min CN=68 Runoff=0.95 cfs 0.069 af

Subcatchment 3S: 3S Runoff Area=845,878 sf 1.73% Impervious Runoff Depth=1.76"
Flow Length=3,159' Slope=0.1416 '/' Tc=34.9 min CN=62 Runoff=19.95 cfs 2.852 af

Subcatchment 4.1S: 4.1S Runoff Area=11,814 sf 26.03% Impervious Runoff Depth=2.51"
Flow Length=205' Slope=0.1432 '/' Tc=6.0 min CN=71 Runoff=0.79 cfs 0.057 af

Subcatchment 4.2S: 4.2S Runoff Area=110,018 sf 21.18% Impervious Runoff Depth=1.11"
Flow Length=584' Slope=0.1103 '/' Tc=12.9 min CN=53 Runoff=2.09 cfs 0.233 af

Subcatchment 4.3S: 4.3S Runoff Area=23,406 sf 16.13% Impervious Runoff Depth=1.04"
Flow Length=62' Slope=0.0948 '/' Tc=6.0 min CN=52 Runoff=0.51 cfs 0.047 af

Subcatchment 4.4S: 4.4S Runoff Area=9,698 sf 0.00% Impervious Runoff Depth=0.73"
Flow Length=56' Slope=0.2163 '/' Tc=6.0 min CN=47 Runoff=0.11 cfs 0.014 af

Subcatchment 4.5S: 4.5S Runoff Area=12,534 sf 33.35% Impervious Runoff Depth=2.87"
Flow Length=126' Slope=0.1504 '/' Tc=6.0 min CN=75 Runoff=0.97 cfs 0.069 af

Subcatchment 4AS: FARM BROOK Runoff Area=58,364 sf 10.48% Impervious Runoff Depth=2.25"
Flow Length=351' Slope=0.0909 '/' Tc=6.3 min UI Adjusted CN=68 Runoff=3.44 cfs 0.251 af

Subcatchment 4S: 4S Runoff Area=256,690 sf 5.17% Impervious Runoff Depth=1.92"
Flow Length=741' Slope=0.0882 '/' Tc=12.8 min UI Adjusted CN=64 Runoff=10.18 cfs 0.943 af

Subcatchment 201S: 201S Runoff Area=50,760 sf 27.53% Impervious Runoff Depth=2.42"
Flow Length=322' Slope=0.2299 '/' Tc=6.0 min CN=70 Runoff=3.28 cfs 0.235 af

Subcatchment 301AS: 301AS Runoff Area=13,809 sf 13.61% Impervious Runoff Depth=2.25"
Flow Length=311' Slope=0.1106 '/' Tc=6.0 min CN=68 Runoff=0.82 cfs 0.059 af

Subcatchment 301BS: 301BS Runoff Area=10,428 sf 18.81% Impervious Runoff Depth=2.60"
Flow Length=299' Slope=0.1825 '/' Tc=6.0 min CN=72 Runoff=0.73 cfs 0.052 af

Subcatchment 301CS: 301CS Runoff Area=7,470 sf 39.41% Impervious Runoff Depth=2.96"
Flow Length=176' Slope=0.0710 '/' Tc=6.0 min CN=76 Runoff=0.60 cfs 0.042 af

Subcatchment 301S: 301S Runoff Area=6,008 sf 43.19% Impervious Runoff Depth=3.25"
Slope=0.1300 '/' Tc=0.0 min CN=79 Runoff=0.64 cfs 0.037 af

Subcatchment 302S: 302S Runoff Area=14,197 sf 38.96% Impervious Runoff Depth=2.96"
Flow Length=282' Slope=0.0895 '/' Tc=6.0 min CN=76 Runoff=1.13 cfs 0.080 af

Subcatchment 303S: 303S Runoff Area=7,986 sf 69.21% Impervious Runoff Depth=4.05"
Flow Length=292' Slope=0.1039 '/' Tc=6.0 min CN=87 Runoff=0.85 cfs 0.062 af

Subcatchment 304S: 304S Runoff Area=1,189 sf 95.45% Impervious Runoff Depth=5.04"
Flow Length=87' Slope=0.0804 '/' Tc=6.0 min CN=96 Runoff=0.15 cfs 0.011 af

Subcatchment 305S: 305S Runoff Area=8,354 sf 46.29% Impervious Runoff Depth=3.15"
Flow Length=160' Slope=0.1602 '/' Tc=6.0 min CN=78 Runoff=0.71 cfs 0.050 af

Subcatchment 306S: 306S Runoff Area=2,837 sf 45.51% Impervious Runoff Depth=3.15"
Flow Length=155' Slope=0.1022 '/' Tc=6.0 min CN=78 Runoff=0.24 cfs 0.017 af

Subcatchment 307S: 307S Runoff Area=12,665 sf 41.28% Impervious Runoff Depth=2.87"
Flow Length=172' Slope=0.1340 '/' Tc=6.0 min CN=75 Runoff=0.98 cfs 0.070 af

Subcatchment 308S: 308S Runoff Area=1,133 sf 78.61% Impervious Runoff Depth=4.37"
Flow Length=53' Slope=0.0873 '/' Tc=6.0 min CN=90 Runoff=0.13 cfs 0.009 af

Subcatchment 309S: 309S Runoff Area=3,397 sf 30.00% Impervious Runoff Depth=2.60"
Flow Length=228' Slope=0.0755 '/' Tc=6.0 min CN=72 Runoff=0.24 cfs 0.017 af

Subcatchment 310S: 310S Runoff Area=32,538 sf 21.44% Impervious Runoff Depth=2.34"
Flow Length=363' Slope=0.1757 '/' Tc=6.0 min CN=69 Runoff=2.02 cfs 0.145 af

Subcatchment 311S: 311S Runoff Area=6,344 sf 45.97% Impervious Runoff Depth=3.15"
Flow Length=185' Slope=0.0735 '/' Tc=6.0 min CN=78 Runoff=0.54 cfs 0.038 af

Subcatchment 312S: 312S Runoff Area=1,504 sf 100.00% Impervious Runoff Depth=5.27"
Flow Length=134' Slope=0.0561 '/' Tc=6.0 min CN=98 Runoff=0.19 cfs 0.015 af

Subcatchment 313S: 313S Runoff Area=446 sf 100.00% Impervious Runoff Depth=5.27"
Flow Length=60' Slope=0.0770 '/' Tc=6.0 min CN=98 Runoff=0.06 cfs 0.004 af

Subcatchment 314S: 314S Runoff Area=43,247 sf 23.40% Impervious Runoff Depth=2.42"
Flow Length=477' Slope=0.2236 '/' Tc=6.0 min CN=70 Runoff=2.79 cfs 0.200 af

Subcatchment 315S: 315S Runoff Area=1,240 sf 100.00% Impervious Runoff Depth=5.27"
Flow Length=133' Slope=0.0824 '/' Tc=6.0 min CN=98 Runoff=0.15 cfs 0.013 af

Subcatchment 316S: 316S Runoff Area=23,632 sf 29.04% Impervious Runoff Depth=2.60"
Slope=0.2261 '/' Tc=0.0 min CN=72 Runoff=2.01 cfs 0.117 af

Subcatchment 317S: 317S Runoff Area=20,053 sf 13.16% Impervious Runoff Depth=1.76"
Flow Length=362' Slope=0.2941 '/' Tc=6.0 min CN=62 Runoff=0.90 cfs 0.068 af

Subcatchment 318S: 318S Runoff Area=24,164 sf 32.70% Impervious Runoff Depth=2.69"
Flow Length=418' Slope=0.3268 '/' Tc=6.0 min CN=73 Runoff=1.74 cfs 0.124 af

Subcatchment 319S: 319S Runoff Area=2,016 sf 99.90% Impervious Runoff Depth=5.27"
Flow Length=175' Slope=0.0706 '/' Tc=6.0 min CN=98 Runoff=0.25 cfs 0.020 af

Subcatchment 404S: 404S Runoff Area=199,150 sf 12.48% Impervious Runoff Depth=0.91"
Flow Length=932' Slope=0.0932 '/' Tc=21.9 min CN=50 Runoff=2.33 cfs 0.347 af

Reach 3R: Hill Brook Avg. Flow Depth=1.03' Max Vel=2.79 fps Inflow=19.95 cfs 2.852 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=16.47 cfs Outflow=17.36 cfs 2.852 af

Reach 4R: Farm Brook Avg. Flow Depth=0.65' Max Vel=2.46 fps Inflow=19.77 cfs 3.660 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=50.25 cfs Outflow=19.70 cfs 3.660 af

Reach OP-1: Observation Point 1 Inflow=24.58 cfs 5.198 af
Outflow=24.58 cfs 5.198 af

Pond 1P: CB 100 Peak Elev=272.36' Inflow=7.44 cfs 0.736 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0021 '/' Outflow=7.44 cfs 0.736 af

Pond 2P: CB 200 Peak Elev=271.42' Inflow=2.81 cfs 0.210 af
15.0" Round Culvert n=0.013 L=47.0' S=0.0281 '/' Outflow=2.81 cfs 0.210 af

Pond 3.1AP: FOREBAY Peak Elev=295.24' Storage=6,540 cf Inflow=10.75 cfs 0.788 af
Discarded=0.07 cfs 0.182 af Primary=10.17 cfs 0.606 af Outflow=10.24 cfs 0.788 af

Pond 3.1BP: Stormwater Management Peak Elev=295.29' Storage=12,835 cf Inflow=10.17 cfs 0.606 af
Discarded=0.14 cfs 0.327 af Primary=0.89 cfs 0.279 af Secondary=0.00 cfs 0.000 af Outflow=1.03 cfs 0.606 af

Pond 3.2P: Stormwater Management Pond Peak Elev=282.94' Storage=16,709 cf Inflow=11.36 cfs 0.943 af
Discarded=1.27 cfs 0.943 af Primary=0.00 cfs 0.000 af Secondary=0.00 cfs 0.000 af Outflow=1.27 cfs 0.943 af

Pond 3.3P: Stormwater Management Pond Peak Elev=271.16' Storage=3,639 cf Inflow=3.27 cfs 0.240 af
Outflow=1.26 cfs 0.240 af

Pond 3.4P: Stormwater Management Pond Peak Elev=294.04' Storage=1,387 cf Inflow=0.95 cfs 0.069 af
Outflow=0.22 cfs 0.038 af

Pond 3P: HW 300 Peak Elev=273.16' Inflow=19.24 cfs 3.409 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=19.24 cfs 3.409 af

Pond 4.1P: Stormwater Management Pond Peak Elev=258.40' Storage=1,714 cf Inflow=0.79 cfs 0.057 af
Outflow=0.05 cfs 0.057 af

Pond 4.2AP: Forebay Peak Elev=259.96' Storage=3,815 cf Inflow=4.65 cfs 0.468 af
Discarded=0.26 cfs 0.280 af Primary=3.48 cfs 0.188 af Outflow=3.75 cfs 0.468 af

Pond 4.2BP: Stormwater Management Pond Peak Elev=258.38' Storage=4,709 cf Inflow=3.48 cfs 0.188 af
Discarded=0.25 cfs 0.166 af Primary=0.17 cfs 0.022 af Secondary=0.00 cfs 0.000 af Outflow=0.41 cfs 0.188 af

Pond 4.3P: Stormwater Management Pond Peak Elev=269.62' Storage=19,868 cf Inflow=10.03 cfs 0.993 af
Discarded=0.77 cfs 0.907 af Primary=0.20 cfs 0.081 af Secondary=0.06 cfs 0.005 af Outflow=1.03 cfs 0.993 af

Pond 4.4P: Stormwater Management Pond Peak Elev=245.10' Storage=2,710 cf Inflow=2.41 cfs 0.361 af
Primary=1.21 cfs 0.306 af Secondary=0.84 cfs 0.055 af Outflow=2.05 cfs 0.361 af

Pond 4.5P: Stormwater Management Pond Peak Elev=255.81' Storage=1,319 cf Inflow=0.97 cfs 0.069 af
Outflow=0.50 cfs 0.069 af

Pond 201P: FES 201 Peak Elev=271.71' Inflow=3.28 cfs 0.235 af
15.0" Round Culvert n=0.013 L=122.0' S=0.0213 '/' Outflow=3.28 cfs 0.235 af

Pond 301AP: FES 301A Peak Elev=340.88' Inflow=0.82 cfs 0.059 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0560 '/' Outflow=0.82 cfs 0.059 af

Pond 301BP: CB 301B Peak Elev=339.09' Inflow=2.14 cfs 0.154 af
15.0" Round Culvert n=0.013 L=44.0' S=0.0511 '/' Outflow=2.14 cfs 0.154 af

Pond 301CP: FES 301C Peak Elev=340.41' Inflow=0.60 cfs 0.042 af
15.0" Round Culvert n=0.013 L=30.0' S=0.0333 '/' Outflow=0.60 cfs 0.042 af

Pond 301P: CB 301 Peak Elev=333.42' Inflow=2.48 cfs 0.191 af
15.0" Round Culvert n=0.013 L=220.5' S=0.0302 '/' Outflow=2.48 cfs 0.191 af

Pond 302P: CB 302 Peak Elev=326.19' Inflow=4.45 cfs 0.333 af
15.0" Round Culvert n=0.013 L=93.0' S=0.0500 '/' Outflow=4.45 cfs 0.333 af

Pond 303P: CB 303 Peak Elev=326.24' Inflow=0.85 cfs 0.062 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0500 '/' Outflow=0.85 cfs 0.062 af

Pond 304P: CB 304 Peak Elev=320.47' Inflow=5.31 cfs 0.395 af
15.0" Round Culvert n=0.013 L=105.0' S=0.0500 '/' Outflow=5.31 cfs 0.395 af

Pond 305P: CB 305 Peak Elev=319.90' Inflow=0.71 cfs 0.050 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0400 '/' Outflow=0.71 cfs 0.050 af

Pond 306P: CB 306 Peak Elev=315.24' Inflow=5.55 cfs 0.412 af
15.0" Round Culvert n=0.013 L=26.0' S=0.0404 '/' Outflow=5.55 cfs 0.412 af

Pond 307P: CB 307 Peak Elev=313.49' Inflow=6.52 cfs 0.482 af
18.0" Round Culvert n=0.013 L=56.0' S=0.0455 '/' Outflow=6.52 cfs 0.482 af

Pond 308P: CB 308 Peak Elev=310.88' Inflow=6.65 cfs 0.491 af
18.0" Round Culvert n=0.013 L=30.0' S=0.0500 '/' Outflow=6.65 cfs 0.491 af

Pond 309P: CB 309 Peak Elev=309.35' Inflow=6.88 cfs 0.508 af
18.0" Round Culvert n=0.013 L=95.0' S=0.0500 '/' Outflow=6.88 cfs 0.508 af

Pond 310P: CB 310 Peak Elev=305.20' Inflow=8.90 cfs 0.653 af
18.0" Round Culvert n=0.013 L=20.0' S=0.0200 '/' Outflow=8.90 cfs 0.653 af

Pond 311P: CB 311 Peak Elev=304.92' Inflow=9.44 cfs 0.692 af
18.0" Round Culvert n=0.013 L=140.0' S=0.0400 '/' Outflow=9.44 cfs 0.692 af

Pond 312P: CB 312 Peak Elev=299.30' Inflow=9.62 cfs 0.707 af
18.0" Round Culvert n=0.013 L=34.0' S=0.0206 '/' Outflow=9.62 cfs 0.707 af

Pond 313P: CB 313 Peak Elev=286.67' Inflow=0.06 cfs 0.004 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.06 cfs 0.004 af

Pond 314P: CB 314 Peak Elev=287.25' Inflow=2.85 cfs 0.205 af
15.0" Round Culvert n=0.013 L=112.0' S=0.0491 '/' Outflow=2.85 cfs 0.205 af

Pond 315P: CB 315 Peak Elev=281.15' Inflow=0.15 cfs 0.013 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.15 cfs 0.013 af

Pond 316P: CB 316 Peak Elev=282.08' Inflow=4.18 cfs 0.335 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0093 '/' Outflow=4.18 cfs 0.335 af

Pond 317P: FES 317 Peak Elev=272.01' Inflow=0.90 cfs 0.068 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0925 '/' Outflow=0.90 cfs 0.068 af

Pond 318P: CB 318 Peak Elev=269.50' Inflow=2.64 cfs 0.192 af
15.0" Round Culvert n=0.013 L=21.0' S=0.0143 '/' Outflow=2.64 cfs 0.192 af

Pond 319P: CB 319 Peak Elev=269.24' Inflow=2.89 cfs 0.212 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0060 '/' Outflow=2.89 cfs 0.212 af

Pond 320P: FES 320 Peak Elev=352.01' Inflow=0.91 cfs 0.065 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0207 '/' Outflow=0.91 cfs 0.065 af

Pond 404P: Culvert Peak Elev=245.48' Inflow=2.33 cfs 0.347 af
15.0" Round Culvert n=0.013 L=17.0' S=0.0647 '/' Outflow=2.33 cfs 0.347 af

Pond DMH-1: DMH-1 Peak Elev=281.58' Inflow=4.18 cfs 0.335 af
15.0" Round Culvert n=0.013 L=136.0' S=0.0107 '/' Outflow=4.18 cfs 0.335 af

Pond DMH-2: DMH-2 Peak Elev=268.76' Inflow=0.00 cfs 0.000 af
24.0" Round Culvert n=0.013 L=76.0' S=0.0211 '/' Outflow=0.00 cfs 0.000 af

Total Runoff Area = 54.690 ac Runoff Volume = 8.034 af Average Runoff Depth = 1.76"
91.12% Pervious = 49.832 ac 8.88% Impervious = 4.859 ac

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 1S: 1S Runoff Area=277,292 sf 1.33% Impervious Runoff Depth=2.02"
Flow Length=818' Slope=0.1742 '/' Tc=12.1 min CN=57 Runoff=11.48 cfs 1.071 af

Subcatchment 2S: 2S Runoff Area=52,779 sf 17.97% Impervious Runoff Depth=2.86"
Flow Length=602' Slope=0.2204 '/' Tc=6.7 min CN=66 Runoff=3.91 cfs 0.288 af

Subcatchment 3.1S: 3.1S Runoff Area=17,437 sf 6.94% Impervious Runoff Depth=3.25"
Flow Length=81' Slope=0.1995 '/' Tc=6.0 min CN=70 Runoff=1.52 cfs 0.108 af

Subcatchment 3.21S: 3.21S Runoff Area=13,021 sf 13.58% Impervious Runoff Depth=3.45"
Flow Length=214' Slope=0.0780 '/' Tc=6.0 min CN=72 Runoff=1.21 cfs 0.086 af

Subcatchment 3.2S: 3.2S Runoff Area=176,677 sf 4.48% Impervious Runoff Depth=2.29"
Flow Length=633' Slope=0.2611 '/' Tc=7.5 min CN=60 Runoff=9.92 cfs 0.774 af

Subcatchment 3.3S: 3.3S Runoff Area=6,168 sf 14.42% Impervious Runoff Depth=3.15"
Flow Length=54' Slope=0.2423 '/' Tc=6.0 min CN=69 Runoff=0.52 cfs 0.037 af

Subcatchment 3.4S: 3.4S Runoff Area=15,974 sf 18.97% Impervious Runoff Depth=3.05"
Flow Length=136' Slope=0.1994 '/' Tc=6.0 min CN=68 Runoff=1.30 cfs 0.093 af

Subcatchment 3S: 3S Runoff Area=845,878 sf 1.73% Impervious Runoff Depth=2.48"
Flow Length=3,159' Slope=0.1416 '/' Tc=34.9 min CN=62 Runoff=28.80 cfs 4.005 af

Subcatchment 4.1S: 4.1S Runoff Area=11,814 sf 26.03% Impervious Runoff Depth=3.35"
Flow Length=205' Slope=0.1432 '/' Tc=6.0 min CN=71 Runoff=1.06 cfs 0.076 af

Subcatchment 4.2S: 4.2S Runoff Area=110,018 sf 21.18% Impervious Runoff Depth=1.67"
Flow Length=584' Slope=0.1103 '/' Tc=12.9 min CN=53 Runoff=3.49 cfs 0.352 af

Subcatchment 4.3S: 4.3S Runoff Area=23,406 sf 16.13% Impervious Runoff Depth=1.59"
Flow Length=62' Slope=0.0948 '/' Tc=6.0 min CN=52 Runoff=0.88 cfs 0.071 af

Subcatchment 4.4S: 4.4S Runoff Area=9,698 sf 0.00% Impervious Runoff Depth=1.18"
Flow Length=56' Slope=0.2163 '/' Tc=6.0 min CN=47 Runoff=0.24 cfs 0.022 af

Subcatchment 4.5S: 4.5S Runoff Area=12,534 sf 33.35% Impervious Runoff Depth=3.76"
Flow Length=126' Slope=0.1504 '/' Tc=6.0 min CN=75 Runoff=1.27 cfs 0.090 af

Subcatchment 4AS: FARM BROOK Runoff Area=58,364 sf 10.48% Impervious Runoff Depth=3.05"
Flow Length=351' Slope=0.0909 '/' Tc=6.3 min UI Adjusted CN=68 Runoff=4.72 cfs 0.341 af

Subcatchment 4S: 4S Runoff Area=256,690 sf 5.17% Impervious Runoff Depth=2.66"
Flow Length=741' Slope=0.0882 '/' Tc=12.8 min UI Adjusted CN=64 Runoff=14.45 cfs 1.308 af

Subcatchment 201S: 201S Runoff Area=50,760 sf 27.53% Impervious Runoff Depth=3.25"
Flow Length=322' Slope=0.2299 '/' Tc=6.0 min CN=70 Runoff=4.43 cfs 0.315 af

Subcatchment 301AS: 301AS Runoff Area=13,809 sf 13.61% Impervious Runoff Depth=3.05"
Flow Length=311' Slope=0.1106 '/' Tc=6.0 min CN=68 Runoff=1.13 cfs 0.081 af

Subcatchment 301BS: 301BS Runoff Area=10,428 sf 18.81% Impervious Runoff Depth=3.45"
Flow Length=299' Slope=0.1825 '/' Tc=6.0 min CN=72 Runoff=0.97 cfs 0.069 af

Subcatchment 301CS: 301CS Runoff Area=7,470 sf 39.41% Impervious Runoff Depth=3.86"
Flow Length=176' Slope=0.0710 '/' Tc=6.0 min CN=76 Runoff=0.78 cfs 0.055 af

Subcatchment 301S: 301S Runoff Area=6,008 sf 43.19% Impervious Runoff Depth=4.17"
Slope=0.1300 '/' Tc=0.0 min CN=79 Runoff=0.82 cfs 0.048 af

Subcatchment 302S: 302S Runoff Area=14,197 sf 38.96% Impervious Runoff Depth=3.86"
Flow Length=282' Slope=0.0895 '/' Tc=6.0 min CN=76 Runoff=1.47 cfs 0.105 af

Subcatchment 303S: 303S Runoff Area=7,986 sf 69.21% Impervious Runoff Depth=5.05"
Flow Length=292' Slope=0.1039 '/' Tc=6.0 min CN=87 Runoff=1.05 cfs 0.077 af

Subcatchment 304S: 304S Runoff Area=1,189 sf 95.45% Impervious Runoff Depth=6.08"
Flow Length=87' Slope=0.0804 '/' Tc=6.0 min CN=96 Runoff=0.17 cfs 0.014 af

Subcatchment 305S: 305S Runoff Area=8,354 sf 46.29% Impervious Runoff Depth=4.07"
Flow Length=160' Slope=0.1602 '/' Tc=6.0 min CN=78 Runoff=0.91 cfs 0.065 af

Subcatchment 306S: 306S Runoff Area=2,837 sf 45.51% Impervious Runoff Depth=4.07"
Flow Length=155' Slope=0.1022 '/' Tc=6.0 min CN=78 Runoff=0.31 cfs 0.022 af

Subcatchment 307S: 307S Runoff Area=12,665 sf 41.28% Impervious Runoff Depth=3.76"
Flow Length=172' Slope=0.1340 '/' Tc=6.0 min CN=75 Runoff=1.28 cfs 0.091 af

Subcatchment 308S: 308S Runoff Area=1,133 sf 78.61% Impervious Runoff Depth=5.38"
Flow Length=53' Slope=0.0873 '/' Tc=6.0 min CN=90 Runoff=0.16 cfs 0.012 af

Subcatchment 309S: 309S Runoff Area=3,397 sf 30.00% Impervious Runoff Depth=3.45"
Flow Length=228' Slope=0.0755 '/' Tc=6.0 min CN=72 Runoff=0.32 cfs 0.022 af

Subcatchment 310S: 310S Runoff Area=32,538 sf 21.44% Impervious Runoff Depth=3.15"
Flow Length=363' Slope=0.1757 '/' Tc=6.0 min CN=69 Runoff=2.75 cfs 0.196 af

Subcatchment 311S: 311S Runoff Area=6,344 sf 45.97% Impervious Runoff Depth=4.07"
Flow Length=185' Slope=0.0735 '/' Tc=6.0 min CN=78 Runoff=0.69 cfs 0.049 af

Subcatchment 312S: 312S Runoff Area=1,504 sf 100.00% Impervious Runoff Depth=6.31"
Flow Length=134' Slope=0.0561 '/' Tc=6.0 min CN=98 Runoff=0.22 cfs 0.018 af

Subcatchment 313S: 313S Runoff Area=446 sf 100.00% Impervious Runoff Depth=6.31"
Flow Length=60' Slope=0.0770 '/' Tc=6.0 min CN=98 Runoff=0.07 cfs 0.005 af

Subcatchment 314S: 314S Runoff Area=43,247 sf 23.40% Impervious Runoff Depth=3.25"
Flow Length=477' Slope=0.2236 '/' Tc=6.0 min CN=70 Runoff=3.77 cfs 0.269 af

Subcatchment 315S: 315S Runoff Area=1,240 sf 100.00% Impervious Runoff Depth=6.31"
Flow Length=133' Slope=0.0824 '/' Tc=6.0 min CN=98 Runoff=0.18 cfs 0.015 af

Subcatchment 316S: 316S Runoff Area=23,632 sf 29.04% Impervious Runoff Depth=3.45"
Slope=0.2261 '/' Tc=0.0 min CN=72 Runoff=2.69 cfs 0.156 af

Subcatchment 317S: 317S Runoff Area=20,053 sf 13.16% Impervious Runoff Depth=2.48"
Flow Length=362' Slope=0.2941 '/' Tc=6.0 min CN=62 Runoff=1.30 cfs 0.095 af

Subcatchment 318S: 318S Runoff Area=24,164 sf 32.70% Impervious Runoff Depth=3.55"
Flow Length=418' Slope=0.3268 '/' Tc=6.0 min CN=73 Runoff=2.31 cfs 0.164 af

Subcatchment 319S: 319S Runoff Area=2,016 sf 99.90% Impervious Runoff Depth=6.31"
Flow Length=175' Slope=0.0706 '/' Tc=6.0 min CN=98 Runoff=0.30 cfs 0.024 af

Subcatchment 404S: 404S Runoff Area=199,150 sf 12.48% Impervious Runoff Depth=1.42"
Flow Length=932' Slope=0.0932 '/' Tc=21.9 min CN=50 Runoff=4.14 cfs 0.542 af

Reach 3R: Hill Brook Avg. Flow Depth=1.26' Max Vel=3.07 fps Inflow=28.80 cfs 4.005 af
n=0.070 L=2,339.0' S=0.0299 '/' Capacity=16.47 cfs Outflow=25.48 cfs 4.005 af

Reach 4R: Farm Brook Avg. Flow Depth=0.80' Max Vel=2.82 fps Inflow=30.67 cfs 5.239 af
n=0.070 L=352.0' S=0.0412 '/' Capacity=50.25 cfs Outflow=30.62 cfs 5.239 af

Reach OP-1: Observation Point 1 Inflow=45.66 cfs 7.901 af
Outflow=45.66 cfs 7.901 af

Pond 1P: CB 100 Peak Elev=275.87' Inflow=11.48 cfs 1.071 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0021 '/' Outflow=11.48 cfs 1.071 af

Pond 2P: CB 200 Peak Elev=271.75' Inflow=3.91 cfs 0.288 af
15.0" Round Culvert n=0.013 L=47.0' S=0.0281 '/' Outflow=3.91 cfs 0.288 af

Pond 3.1AP: FOREBAY Peak Elev=295.33' Storage=6,840 cf Inflow=14.13 cfs 1.032 af
Discarded=0.07 cfs 0.185 af Primary=13.54 cfs 0.848 af Outflow=13.60 cfs 1.032 af

Pond 3.1BP: Stormwater Management Peak Elev=295.65' Storage=15,196 cf Inflow=13.54 cfs 0.848 af
Discarded=0.15 cfs 0.338 af Primary=2.82 cfs 0.471 af Secondary=1.42 cfs 0.039 af Outflow=4.39 cfs 0.848 af

Pond 3.2P: Stormwater Management Pond Peak Elev=284.04' Storage=25,523 cf Inflow=16.14 cfs 1.305 af
Discarded=1.40 cfs 1.265 af Primary=0.11 cfs 0.040 af Secondary=0.00 cfs 0.000 af Outflow=1.50 cfs 1.305 af

Pond 3.3P: Stormwater Management Pond Peak Elev=271.64' Storage=4,661 cf Inflow=4.43 cfs 0.321 af
Outflow=1.73 cfs 0.321 af

Pond 3.4P: Stormwater Management Pond Peak Elev=294.09' Storage=1,447 cf Inflow=1.30 cfs 0.093 af
Outflow=0.66 cfs 0.063 af

Pond 3P: HW 300 Peak Elev=288.17' Inflow=29.91 cfs 4.898 af
15.0" Round Culvert n=0.013 L=38.0' S=0.0134 '/' Outflow=29.91 cfs 4.898 af

Pond 4.1P: Stormwater Management Pond Peak Elev=258.65' Storage=1,990 cf Inflow=1.06 cfs 0.076 af
Outflow=0.14 cfs 0.076 af

Pond 4.2AP: Forebay Peak Elev=260.08' Storage=4,040 cf Inflow=6.95 cfs 0.667 af
Discarded=0.27 cfs 0.312 af Primary=6.43 cfs 0.355 af Outflow=6.70 cfs 0.667 af

Pond 4.2BP: Stormwater Management Pond Peak Elev=258.96' Storage=6,904 cf Inflow=6.43 cfs 0.355 af
Discarded=0.29 cfs 0.197 af Primary=1.35 cfs 0.158 af Secondary=0.00 cfs 0.000 af Outflow=1.63 cfs 0.355 af

Pond 4.3P: Stormwater Management Pond Peak Elev=269.82' Storage=22,107 cf Inflow=15.26 cfs 1.431 af
Discarded=0.79 cfs 1.003 af Primary=2.80 cfs 0.293 af Secondary=1.86 cfs 0.135 af Outflow=5.45 cfs 1.431 af

Pond 4.4P: Stormwater Management Pond Peak Elev=245.18' Storage=2,917 cf Inflow=4.27 cfs 0.564 af
Primary=2.31 cfs 0.430 af Secondary=1.86 cfs 0.134 af Outflow=4.18 cfs 0.564 af

Pond 4.5P: Stormwater Management Pond Peak Elev=255.92' Storage=1,411 cf Inflow=1.27 cfs 0.090 af
Outflow=0.92 cfs 0.090 af

Pond 201P: FES 201 Peak Elev=272.13' Inflow=4.43 cfs 0.315 af
15.0" Round Culvert n=0.013 L=122.0' S=0.0213 '/' Outflow=4.43 cfs 0.315 af

Pond 301AP: FES 301A Peak Elev=340.98' Inflow=1.13 cfs 0.081 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0560 '/' Outflow=1.13 cfs 0.081 af

Pond 301BP: CB 301B Peak Elev=339.26' Inflow=2.87 cfs 0.205 af
15.0" Round Culvert n=0.013 L=44.0' S=0.0511 '/' Outflow=2.87 cfs 0.205 af

Pond 301CP: FES 301C Peak Elev=340.47' Inflow=0.78 cfs 0.055 af
15.0" Round Culvert n=0.013 L=30.0' S=0.0333 '/' Outflow=0.78 cfs 0.055 af

Pond 301P: CB 301 Peak Elev=333.62' Inflow=3.30 cfs 0.253 af
15.0" Round Culvert n=0.013 L=220.5' S=0.0302 '/' Outflow=3.30 cfs 0.253 af

Pond 302P: CB 302 Peak Elev=326.83' Inflow=5.81 cfs 0.434 af
15.0" Round Culvert n=0.013 L=93.0' S=0.0500 '/' Outflow=5.81 cfs 0.434 af

Pond 303P: CB 303 Peak Elev=326.30' Inflow=1.05 cfs 0.077 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0500 '/' Outflow=1.05 cfs 0.077 af

Pond 304P: CB 304 Peak Elev=321.36' Inflow=6.90 cfs 0.513 af
15.0" Round Culvert n=0.013 L=105.0' S=0.0500 '/' Outflow=6.90 cfs 0.513 af

Pond 305P: CB 305 Peak Elev=319.96' Inflow=0.91 cfs 0.065 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0400 '/' Outflow=0.91 cfs 0.065 af

Pond 306P: CB 306 Peak Elev=316.21' Inflow=7.21 cfs 0.535 af
15.0" Round Culvert n=0.013 L=26.0' S=0.0404 '/' Outflow=7.21 cfs 0.535 af

Pond 307P: CB 307 Peak Elev=314.15' Inflow=8.48 cfs 0.626 af
18.0" Round Culvert n=0.013 L=56.0' S=0.0455 '/' Outflow=8.48 cfs 0.626 af

Pond 308P: CB 308 Peak Elev=311.55' Inflow=8.64 cfs 0.638 af
18.0" Round Culvert n=0.013 L=30.0' S=0.0500 '/' Outflow=8.64 cfs 0.638 af

Pond 309P: CB 309 Peak Elev=310.08' Inflow=8.95 cfs 0.660 af
18.0" Round Culvert n=0.013 L=95.0' S=0.0500 '/' Outflow=8.95 cfs 0.660 af

Pond 310P: CB 310 Peak Elev=306.48' Inflow=11.70 cfs 0.856 af
18.0" Round Culvert n=0.013 L=20.0' S=0.0200 '/' Outflow=11.70 cfs 0.856 af

Pond 311P: CB 311 Peak Elev=306.35' Inflow=12.39 cfs 0.906 af
18.0" Round Culvert n=0.013 L=140.0' S=0.0400 '/' Outflow=12.39 cfs 0.906 af

Pond 312P: CB 312 Peak Elev=300.77' Inflow=12.61 cfs 0.924 af
18.0" Round Culvert n=0.013 L=34.0' S=0.0206 '/' Outflow=12.61 cfs 0.924 af

Pond 313P: CB 313 Peak Elev=286.68' Inflow=0.07 cfs 0.005 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.07 cfs 0.005 af

Pond 314P: CB 314 Peak Elev=287.55' Inflow=3.84 cfs 0.274 af
15.0" Round Culvert n=0.013 L=112.0' S=0.0491 '/' Outflow=3.84 cfs 0.274 af

Pond 315P: CB 315 Peak Elev=281.17' Inflow=0.18 cfs 0.015 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0100 '/' Outflow=0.18 cfs 0.015 af

Pond 316P: CB 316 Peak Elev=282.71' Inflow=5.59 cfs 0.445 af
15.0" Round Culvert n=0.013 L=43.0' S=0.0093 '/' Outflow=5.59 cfs 0.445 af

Pond 317P: FES 317 Peak Elev=272.12' Inflow=1.30 cfs 0.095 af
15.0" Round Culvert n=0.013 L=20.0' S=0.0925 '/' Outflow=1.30 cfs 0.095 af

Pond 318P: CB 318 Peak Elev=269.77' Inflow=3.61 cfs 0.259 af
15.0" Round Culvert n=0.013 L=21.0' S=0.0143 '/' Outflow=3.61 cfs 0.259 af

Pond 319P: CB 319 Peak Elev=269.50' Inflow=3.91 cfs 0.283 af
15.0" Round Culvert n=0.013 L=25.0' S=0.0060 '/' Outflow=3.91 cfs 0.283 af

Pond 320P: FES 320 Peak Elev=352.10' Inflow=1.21 cfs 0.086 af
15.0" Round Culvert n=0.013 L=29.0' S=0.0207 '/' Outflow=1.21 cfs 0.086 af

Pond 404P: Culvert Peak Elev=246.01' Inflow=4.14 cfs 0.542 af
15.0" Round Culvert n=0.013 L=17.0' S=0.0647 '/' Outflow=4.14 cfs 0.542 af

Pond DMH-1: DMH-1 Peak Elev=282.21' Inflow=5.59 cfs 0.445 af
15.0" Round Culvert n=0.013 L=136.0' S=0.0107 '/' Outflow=5.59 cfs 0.445 af

Pond DMH-2: DMH-2 Peak Elev=268.89' Inflow=0.11 cfs 0.040 af
24.0" Round Culvert n=0.013 L=76.0' S=0.0211 '/' Outflow=0.11 cfs 0.040 af

Total Runoff Area = 54.690 ac Runoff Volume = 11.232 af Average Runoff Depth = 2.46"
91.12% Pervious = 49.832 ac 8.88% Impervious = 4.859 ac

Section 2.1: Post-Development Conditions

50-year Storm Full Report

Summary for Subcatchment 1S: 1S

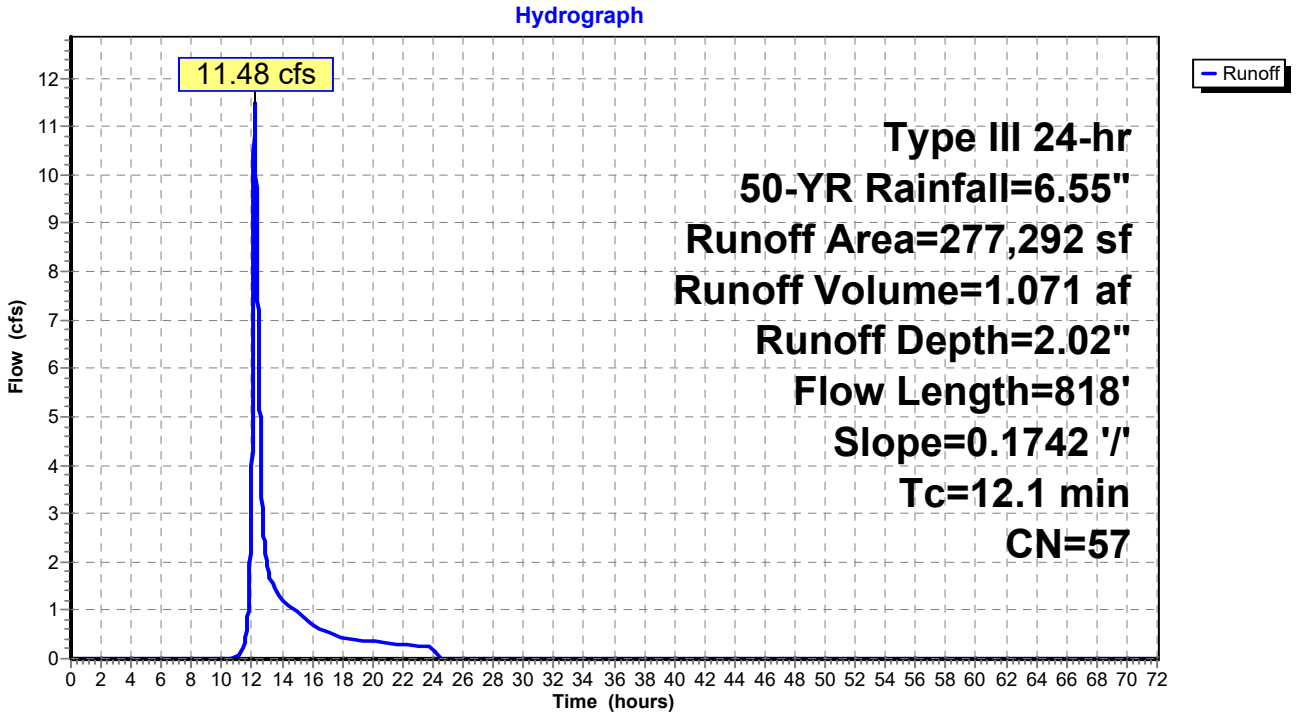
Runoff = 11.48 cfs @ 12.18 hrs, Volume= 1.071 af, Depth= 2.02"
Routed to Pond 1P : CB 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
20,067	70	Woods, Good HSG C
3,174	98	Paved parking HSG B
248,331	55	Woods, Good HSG B
510	98	Roofs HSG B
5,210	61	>75% Grass cover, Good HSG B
277,292	57	Weighted Average
273,608		98.67% Pervious Area
3,683		1.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.1	818	0.1742	1.13		**Lag/CN Method,**

Subcatchment 1S: 1S



Summary for Subcatchment 2S: 2S

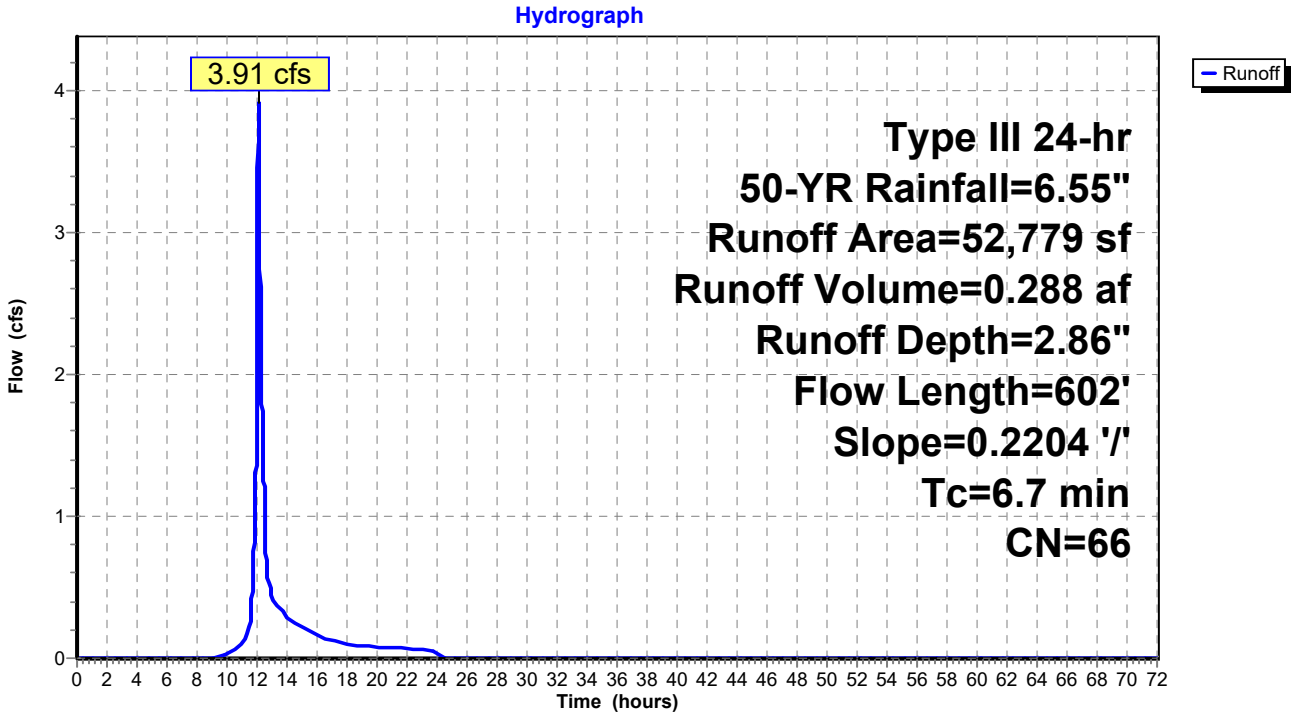
Runoff = 3.91 cfs @ 12.10 hrs, Volume= 0.288 af, Depth= 2.86"
Routed to Pond 2P : CB 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
70	98	Roofs HSG C
4,021	70	Woods, Good HSG C
9	98	Paved parking HSG C
6,163	98	Paved parking HSG B
19,621	55	Woods, Good HSG B
3,244	98	Roofs HSG B
18,824	61	>75% Grass cover, Good HSG B
827	74	>75% Grass cover, Good HSG C
52,779	66	Weighted Average
43,293		82.03% Pervious Area
9,487		17.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	602	0.2204	1.50		**Lag/CN Method,**

Subcatchment 2S: 2S



Summary for Subcatchment 3.1S: 3.1S

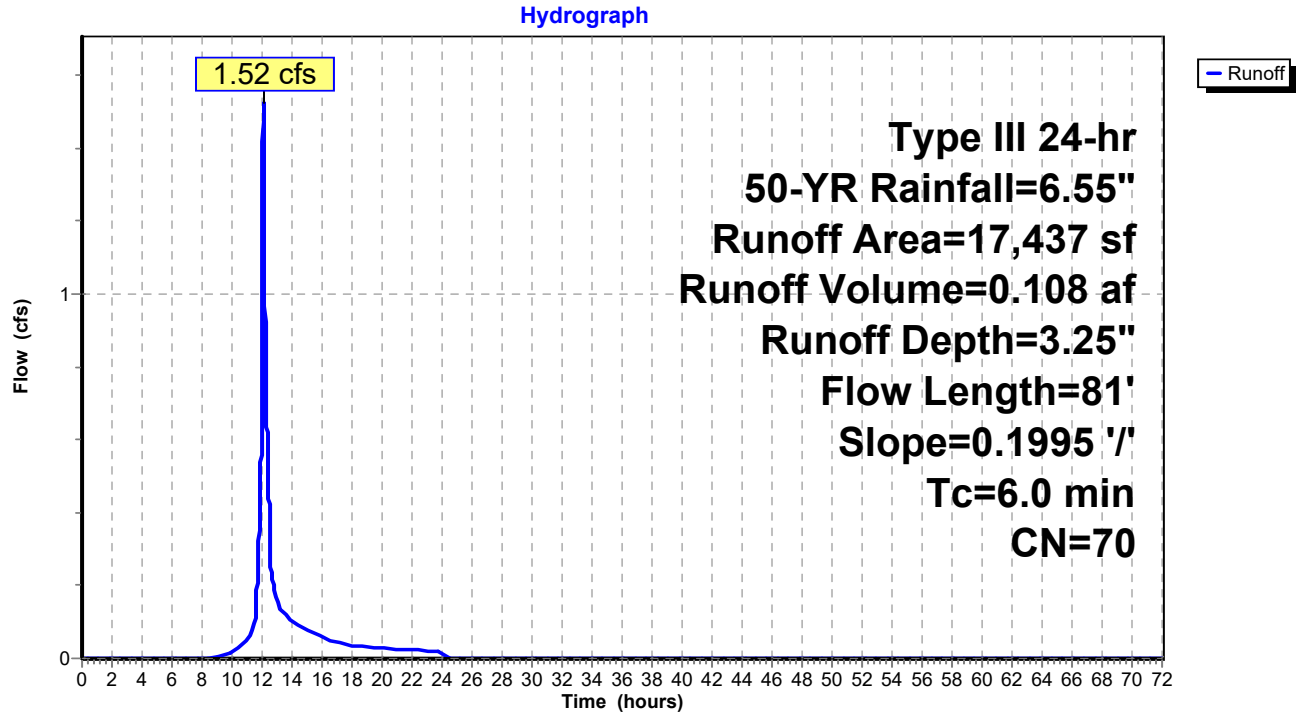
Runoff = 1.52 cfs @ 12.09 hrs, Volume= 0.108 af, Depth= 3.25"
Routed to Pond 3.1AP : FOREBAY

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,210	98	Paved parking HSG B
7,711	61	>75% Grass cover, Good HSG B
8,516	74	>75% Grass cover, Good HSG C
17,437	70	Weighted Average
16,227		93.06% Pervious Area
1,210		6.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	81	0.1995	1.06		**Lag/CN Method,**
1.3	81	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 3.1S: 3.1S



Summary for Subcatchment 3.21S: 3.21S

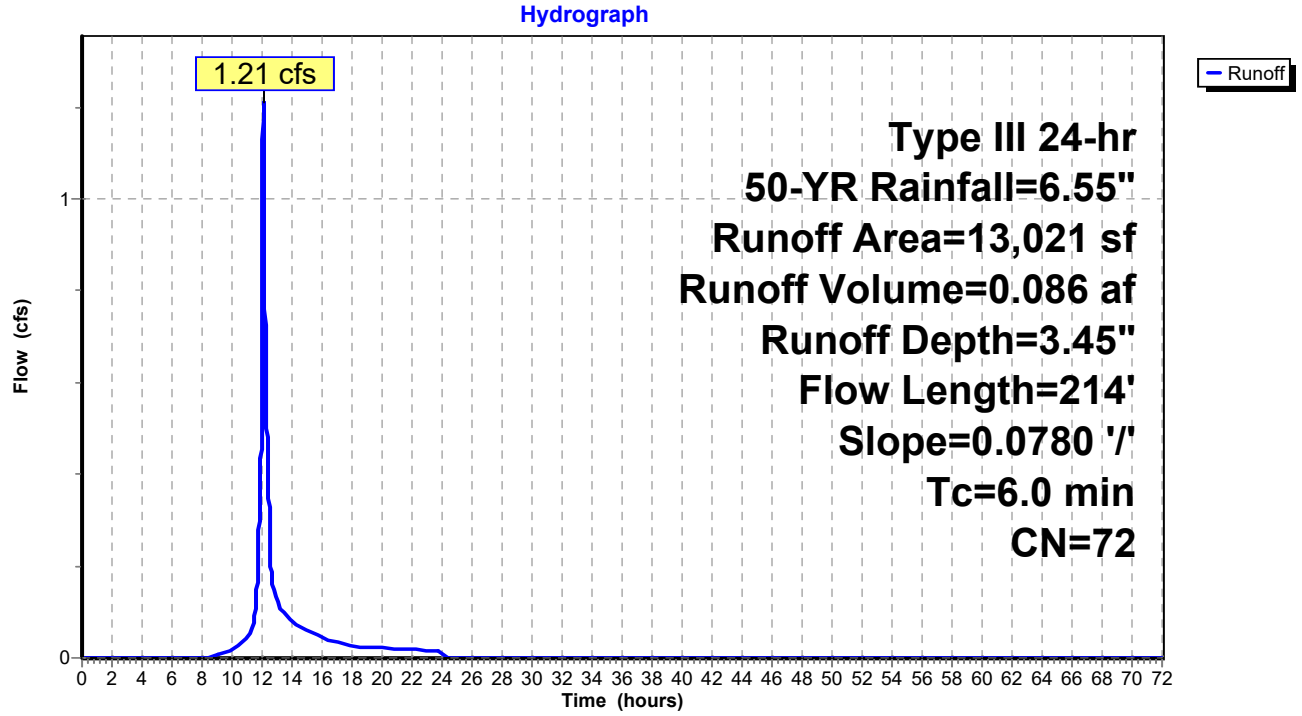
Runoff = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af, Depth= 3.45"
Routed to Pond 320P : FES 320

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
2,591	55	Woods, Good HSG B
3,661	85	Gravel roads HSG B
1,768	98	Roofs HSG B
5,001	61	>75% Grass cover, Good HSG B
13,021	72	Weighted Average
11,253		86.42% Pervious Area
1,768		13.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	214	0.0780	0.85		**Lag/CN Method,**
4.2	214	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 3.21S: 3.21S



Summary for Subcatchment 3.2S: 3.2S

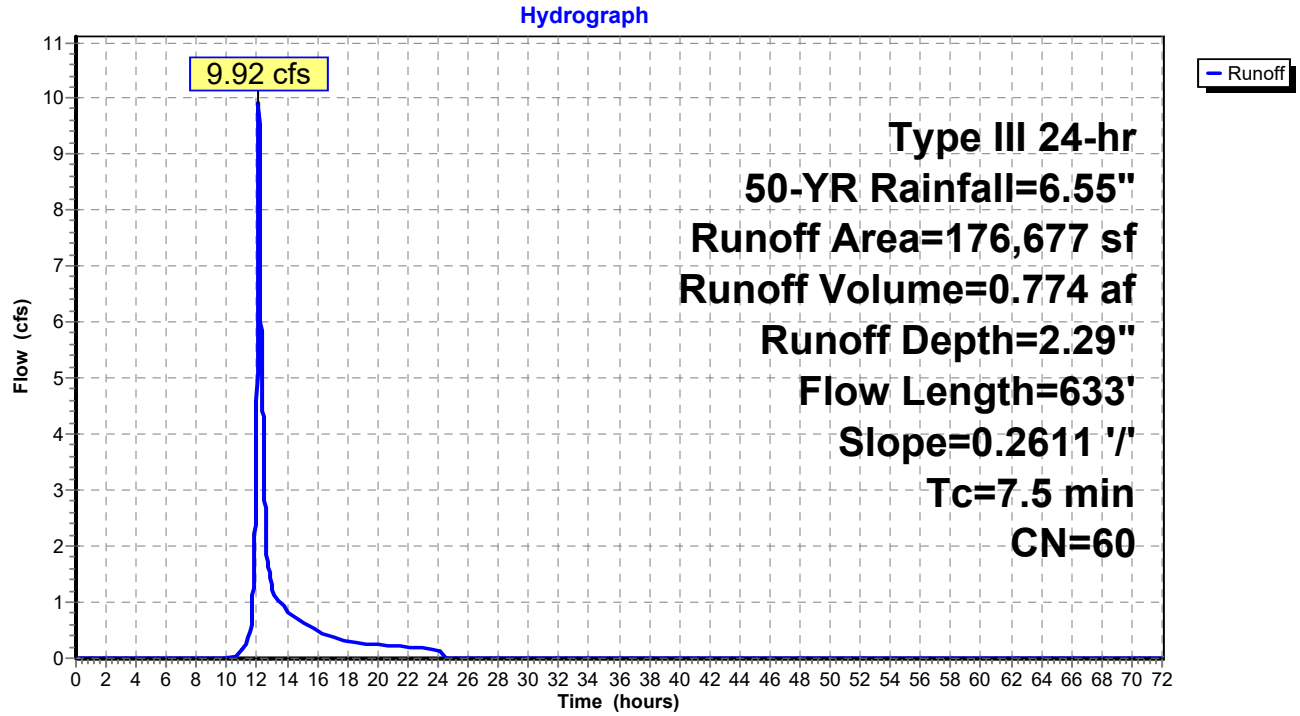
Runoff = 9.92 cfs @ 12.11 hrs, Volume= 0.774 af, Depth= 2.29"
Routed to Pond 3.2P : Stormwater Management Pond "A" Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
919	70	Woods, Good HSG C
2,383	98	Paved parking HSG B
74,961	55	Woods, Good HSG B
2,706	85	Gravel roads HSG B
5,531	98	Roofs HSG B
3,135	39	>75% Grass cover, Good HSG A
86,786	61	>75% Grass cover, Good HSG B
256	74	>75% Grass cover, Good HSG C
176,677	60	Weighted Average
168,763		95.52% Pervious Area
7,914		4.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	633	0.2611	1.41		**Lag/CN Method,**

Subcatchment 3.2S: 3.2S



Summary for Subcatchment 3.3S: 3.3S

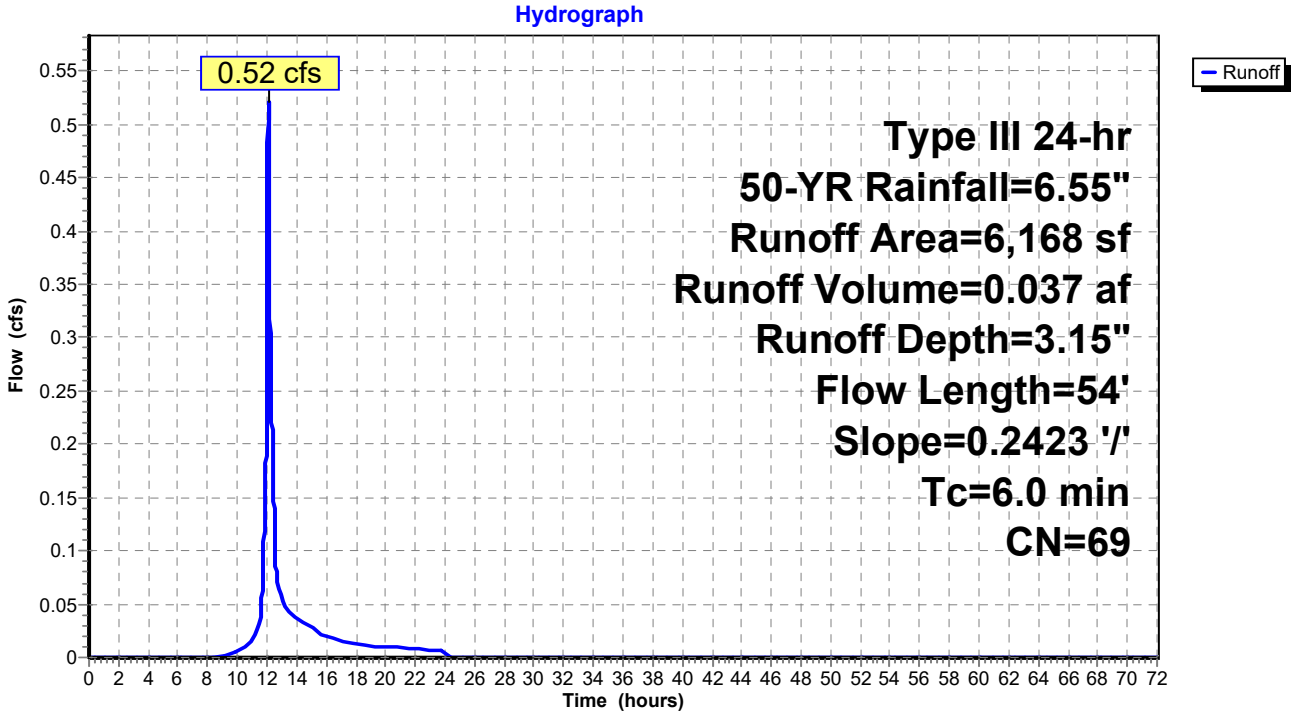
Runoff = 0.52 cfs @ 12.09 hrs, Volume= 0.037 af, Depth= 3.15"
Routed to Pond 3.3P : Stormwater Management Pond "B" Bioretention Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
890	98	Paved parking HSG B
608	55	Woods, Good HSG B
118	70	Woods, Good HSG C
2,929	61	>75% Grass cover, Good HSG B
1,623	74	>75% Grass cover, Good HSG C
6,168	69	Weighted Average
5,278		85.58% Pervious Area
890		14.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	54	0.2423	1.05		**Lag/CN Method,**
0.9	54	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 3.3S: 3.3S



Summary for Subcatchment 3.4S: 3.4S

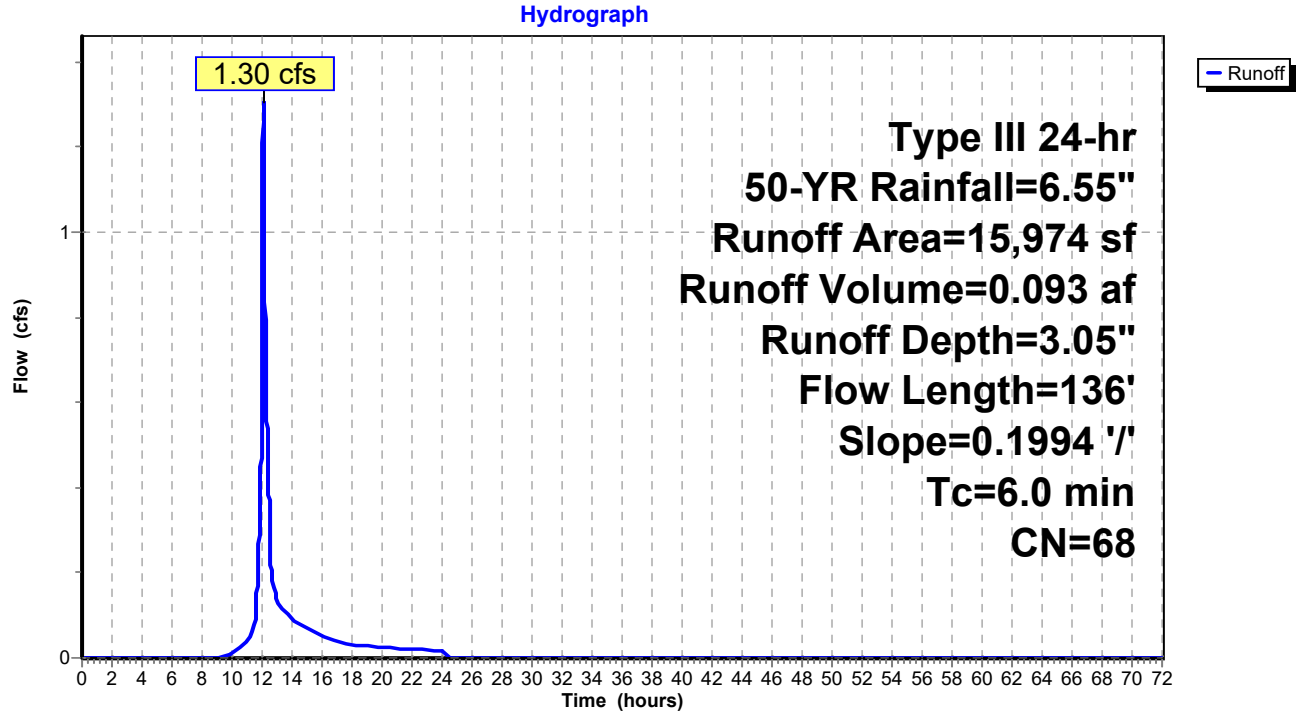
Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.093 af, Depth= 3.05"
Routed to Pond 3.4P : Stormwater Management Pond "I" Detention Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
973	98	Paved parking HSG B
2,058	98	Roofs HSG B
12,640	61	>75% Grass cover, Good HSG B
303	74	>75% Grass cover, Good HSG C
15,974	68	Weighted Average
12,943		81.03% Pervious Area
3,031		18.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	136	0.1994	1.12		**Lag/CN Method,**
2.0	136	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 3.4S: 3.4S



Summary for Subcatchment 3S: 3S

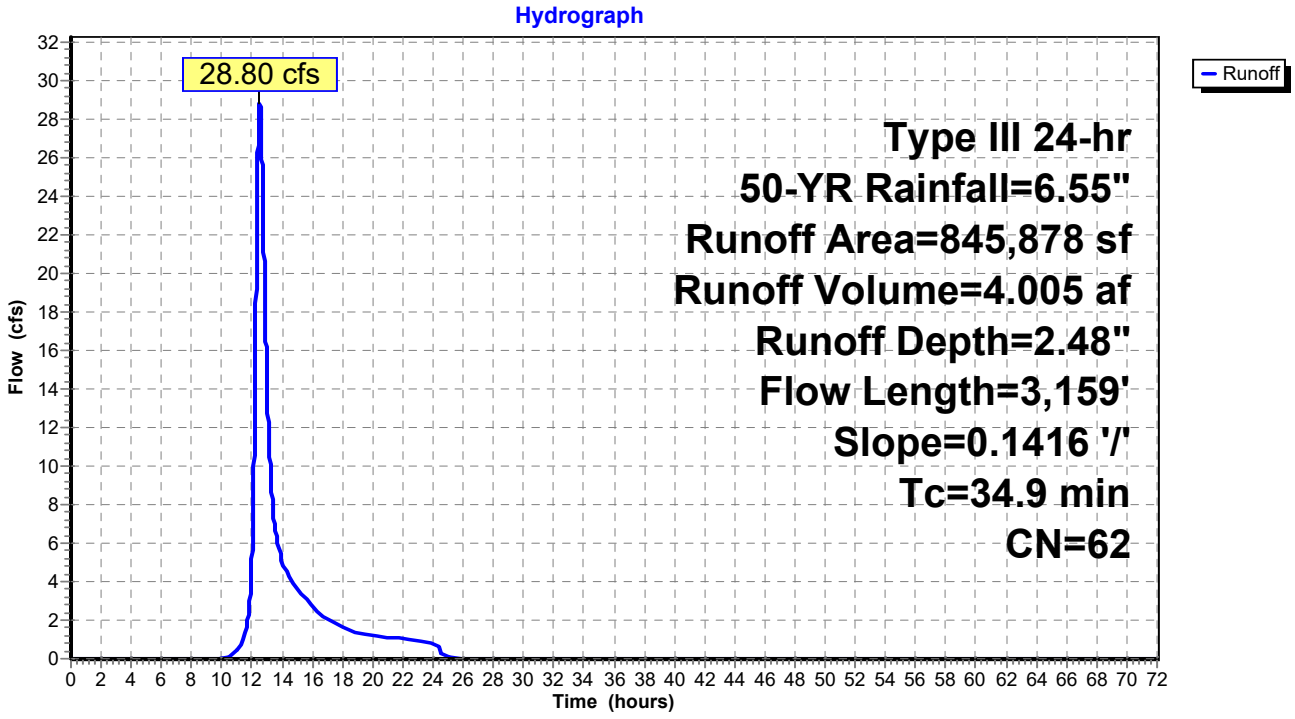
Runoff = 28.80 cfs @ 12.52 hrs, Volume= 4.005 af, Depth= 2.48"
Routed to Reach 3R : Hill Brook

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
4,353	98	Paved parking HSG B
266,749	70	Woods, Good HSG C
441,374	55	Woods, Good HSG B
1,224	98	Unconnected pavement HSG B
9,052	98	Unconnected roofs HSG B
1,161	85	Gravel roads HSG B
63,227	61	>75% Grass cover, Good HSG B
58,738	74	>75% Grass cover, Good HSG C
845,878	62	Weighted Average
831,249		98.27% Pervious Area
14,629		1.73% Impervious Area
10,275		70.24% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.9	3,159	0.1416	1.51		**Lag/CN Method,**

Subcatchment 3S: 3S



Summary for Subcatchment 4.1S: 4.1S

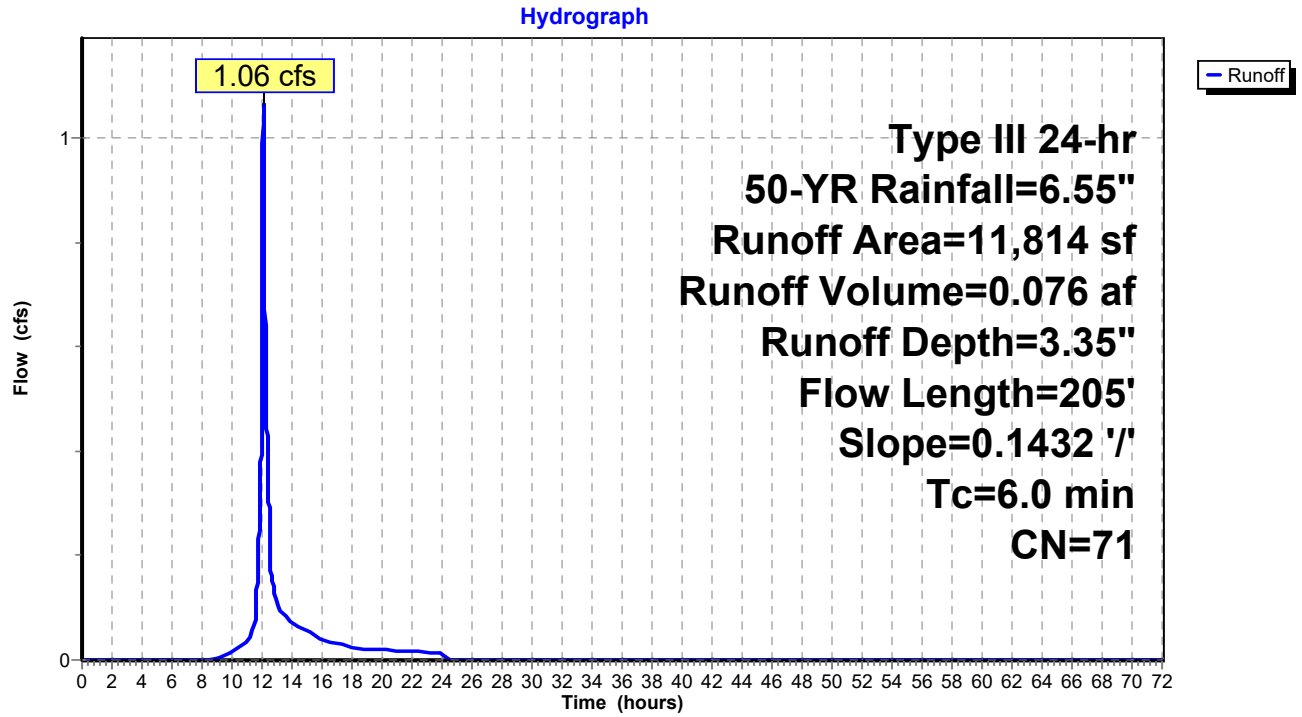
Runoff = 1.06 cfs @ 12.09 hrs, Volume= 0.076 af, Depth= 3.35"
Routed to Pond 4.1P : Stormwater Management Pond "G" Bioretention Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,273	98	Paved parking HSG B
13	98	Unconnected pavement HSG B
209	85	Gravel roads HSG B
1,790	98	Roofs HSG B
8,529	61	>75% Grass cover, Good HSG B
11,814	71	Weighted Average
8,738		73.97% Pervious Area
3,075		26.03% Impervious Area
13		0.42% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.1	205	0.1432	1.11		**Lag/CN Method,**
3.1	205	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 4.1S: 4.1S



Summary for Subcatchment 4.2S: 4.2S

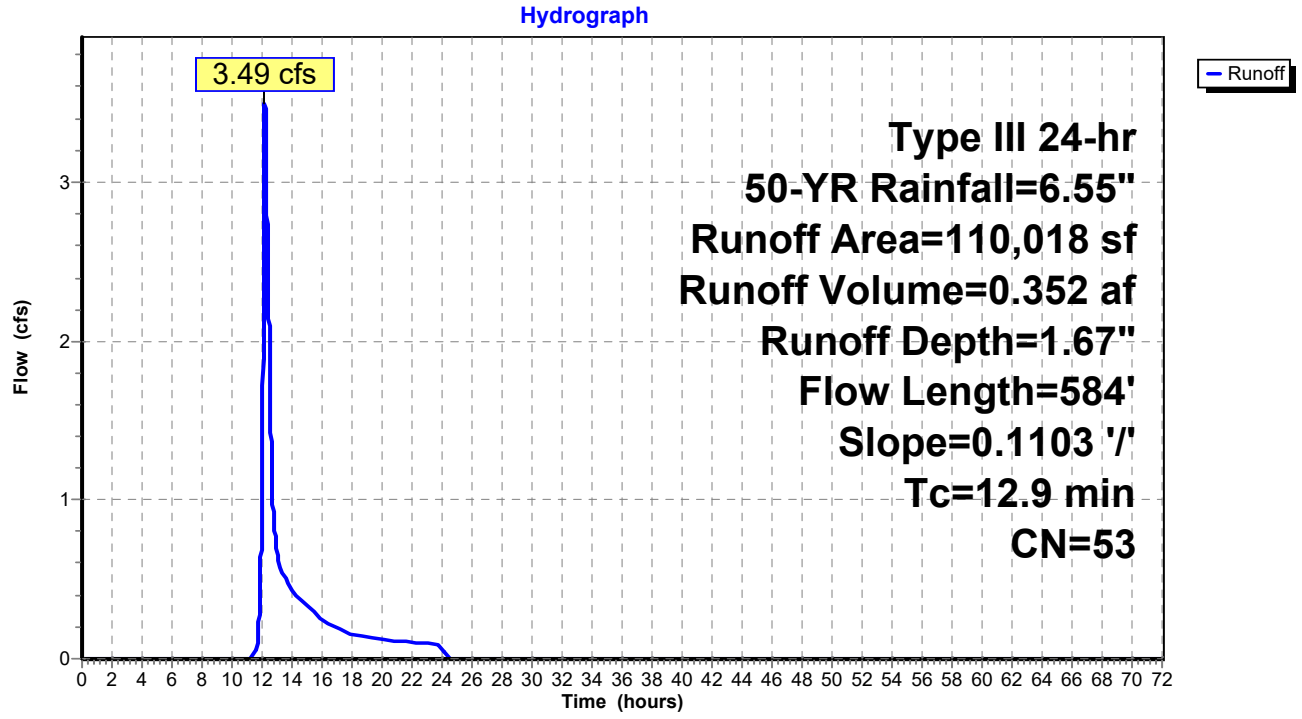
Runoff = 3.49 cfs @ 12.20 hrs, Volume= 0.352 af, Depth= 1.67"
Routed to Pond 4.2AP : Forebay

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
224	98	Roofs HSG C
2,753	30	Woods, Good HSG A
48	76	Gravel roads HSG A
8,985	98	Paved parking HSG A
5,499	98	Paved parking HSG B
2,645	85	Gravel roads HSG B
8,596	98	Roofs HSG A
79,750	39	>75% Grass cover, Good HSG A
1,517	61	>75% Grass cover, Good HSG B
110,018	53	Weighted Average
86,713		78.82% Pervious Area
23,305		21.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.9	584	0.1103	0.76		**Lag/CN Method,**

Subcatchment 4.2S: 4.2S



Summary for Subcatchment 4.3S: 4.3S

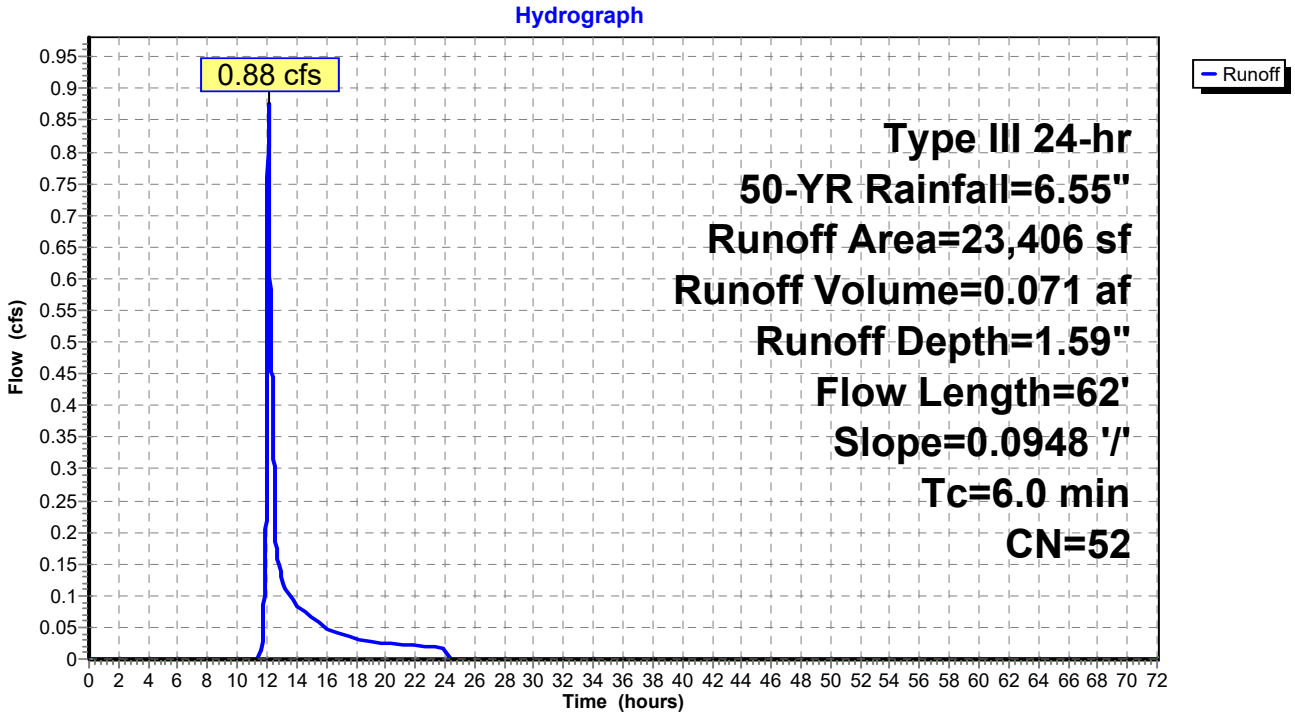
Runoff = 0.88 cfs @ 12.10 hrs, Volume= 0.071 af, Depth= 1.59"
Routed to Pond 4.3P : Stormwater Management Pond "D" Infiltration Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
528	76	Gravel roads HSG A
96	98	Paved parking HSG A
3,036	98	Paved parking HSG B
50	85	Gravel roads HSG B
645	98	Roofs HSG A
16,694	39	>75% Grass cover, Good HSG A
2,273	61	>75% Grass cover, Good HSG B
85	74	>75% Grass cover, Good HSG C
23,406	52	Weighted Average
19,630		83.87% Pervious Area
3,776		16.13% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.3	62	0.0948	0.44		**Lag/CN Method,**
2.3	62	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 4.3S: 4.3S



Summary for Subcatchment 4.4S: 4.4S

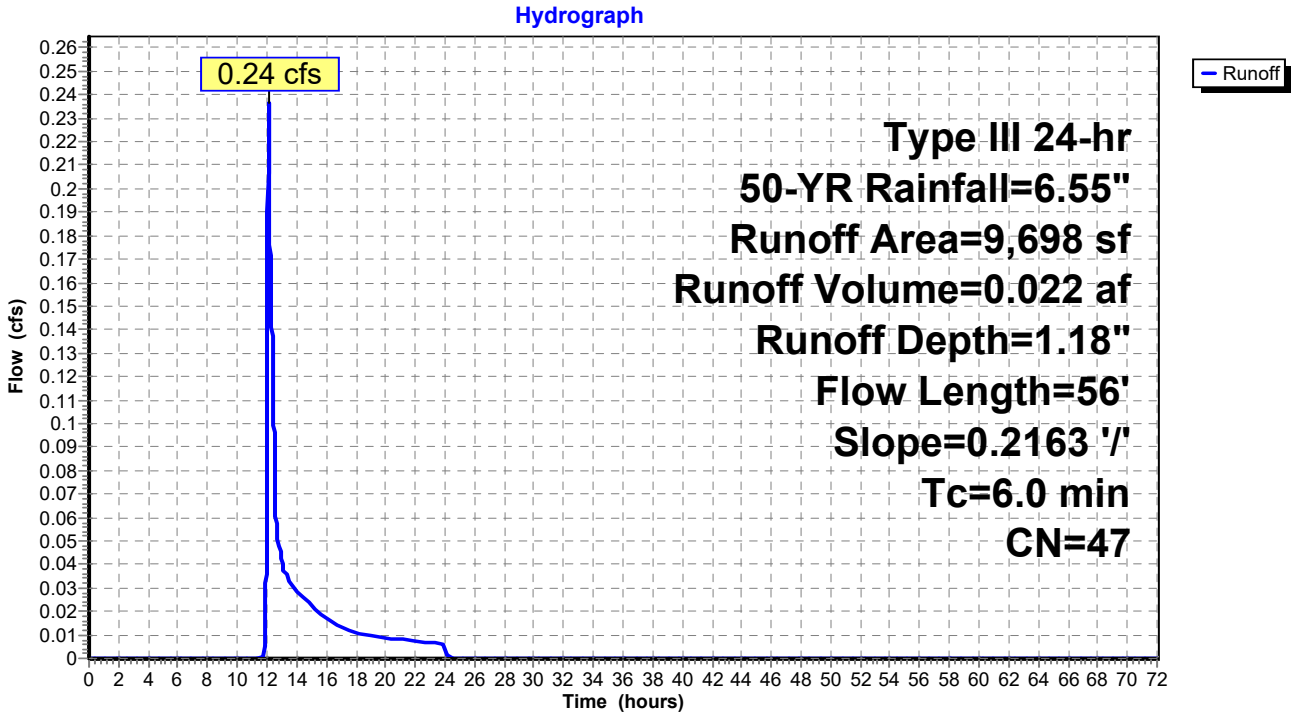
Runoff = 0.24 cfs @ 12.11 hrs, Volume= 0.022 af, Depth= 1.18"
Routed to Pond 4.4P : Stormwater Management Pond "F" Gravel Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
13	70	Woods, Good HSG C
15	30	Woods, Good HSG A
7,558	39	>75% Grass cover, Good HSG A
2,111	74	>75% Grass cover, Good HSG C
9,698	47	Weighted Average
9,698		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	56	0.2163	0.57		**Lag/CN Method,**
1.6	56	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 4.4S: 4.4S



Summary for Subcatchment 4.5S: 4.5S

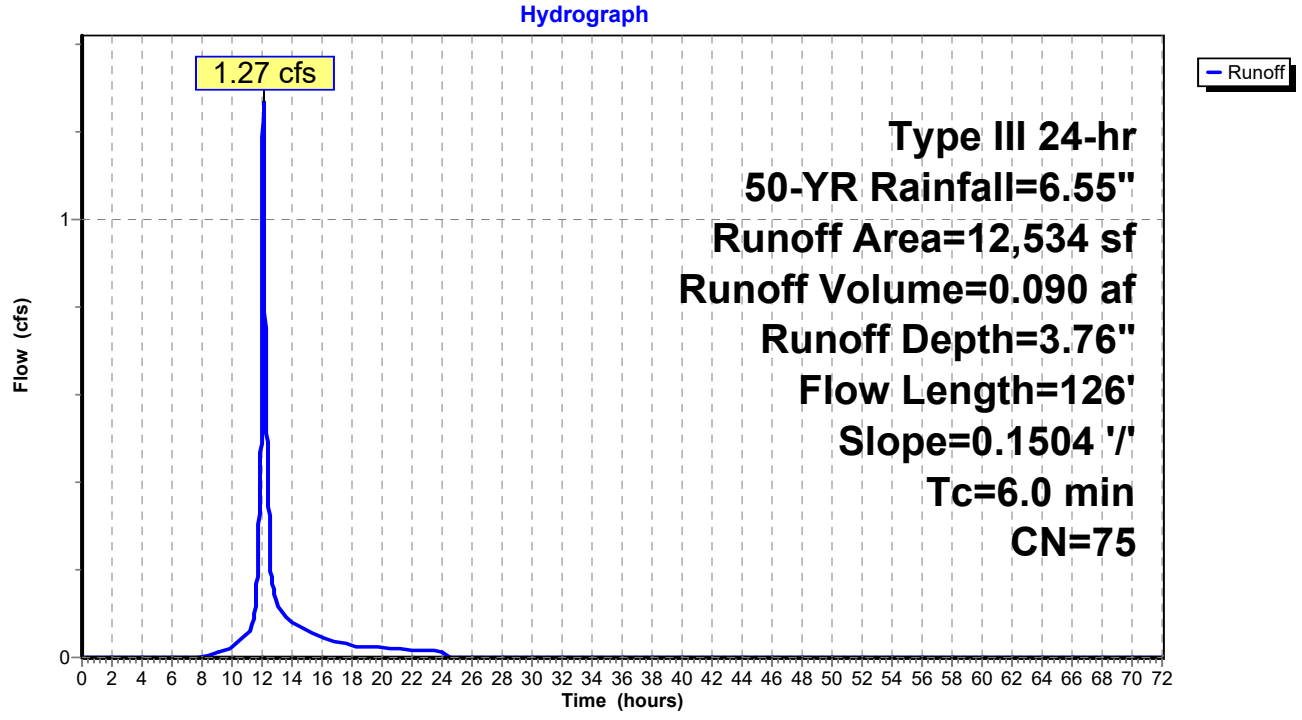
Runoff = 1.27 cfs @ 12.09 hrs, Volume= 0.090 af, Depth= 3.76"
Routed to Pond 4.5P : Stormwater Management Pond "H" Bioretention Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
2,357	98	Paved parking HSG B
272	55	Woods, Good HSG B
733	85	Gravel roads HSG B
1,824	98	Roofs HSG B
7,349	61	>75% Grass cover, Good HSG B
12,534	75	Weighted Average
8,354		66.65% Pervious Area
4,181		33.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	126	0.1504	1.16		**Lag/CN Method,**
1.8	126	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 4.5S: 4.5S



Summary for Subcatchment 4AS: FARM BROOK

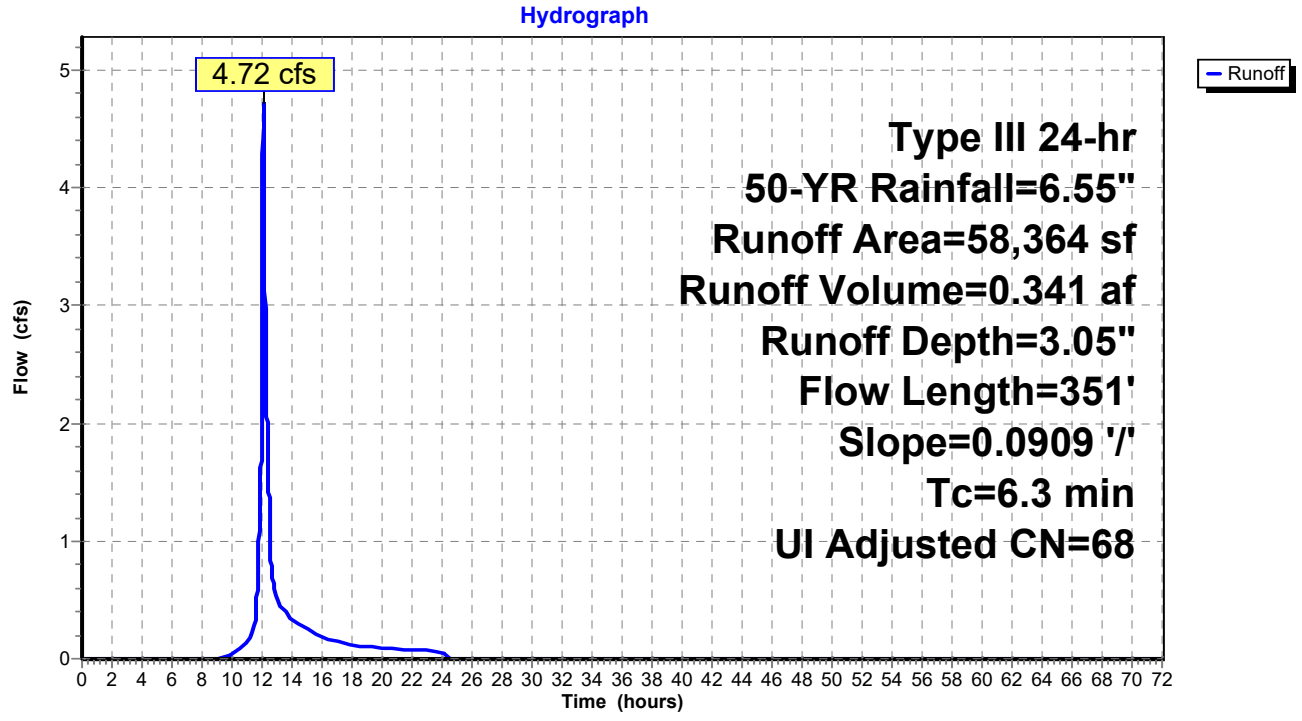
Runoff = 4.72 cfs @ 12.09 hrs, Volume= 0.341 af, Depth= 3.05"
Routed to Reach 4R : Farm Brook

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
28,405	70		Woods, Good HSG C
26	89		Gravel roads HSG C
5,245	98		Unconnected pavement HSG B
1,699	85		Gravel roads HSG B
9,865	55		Woods, Good HSG B
872	98		Unconnected roofs HSG B
10,627	61		>75% Grass cover, Good HSG B
1,625	74		>75% Grass cover, Good HSG C
58,364	69	68	Weighted Average, UI Adjusted
52,247			89.52% Pervious Area
6,117			10.48% Impervious Area
6,117			100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	351	0.0909	0.94		**Lag/CN Method,**

Subcatchment 4AS: FARM BROOK



Summary for Subcatchment 4S: 4S

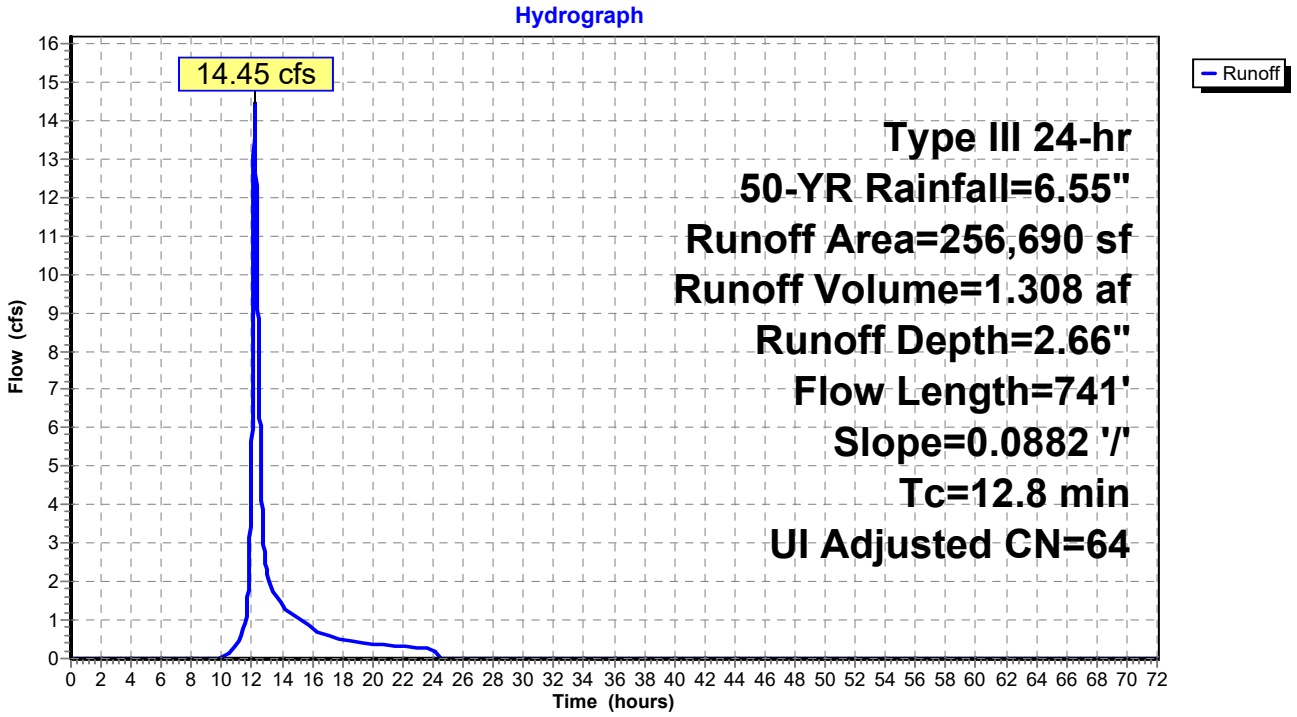
Runoff = 14.45 cfs @ 12.19 hrs, Volume= 1.308 af, Depth= 2.66"
Routed to Reach OP-1 : Observation Point 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Adj	Description
280	98		Unconnected pavement HSG C
145,047	70		Woods, Good HSG C
1,277	98		Unconnected pavement HSG A
118	98		Paved parking HSG A
99	98		Paved parking HSG B
10,963	30		Woods, Good HSG A
33,182	55		Woods, Good HSG B
8,925	98		Unconnected pavement HSG B
3,405	85		Gravel roads HSG B
1,352	98		Unconnected roofs HSG A
933	98		Unconnected roofs HSG B
288	98		Roofs HSG B
25,699	39		>75% Grass cover, Good HSG A
11,724	61		>75% Grass cover, Good HSG B
13,399	74		>75% Grass cover, Good HSG C
256,690	65	64	Weighted Average, UI Adjusted
243,419			94.83% Pervious Area
13,271			5.17% Impervious Area
12,766			96.20% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	741	0.0882	0.96		**Lag/CN Method,**

Subcatchment 4S: 4S



Summary for Subcatchment 201S: 201S

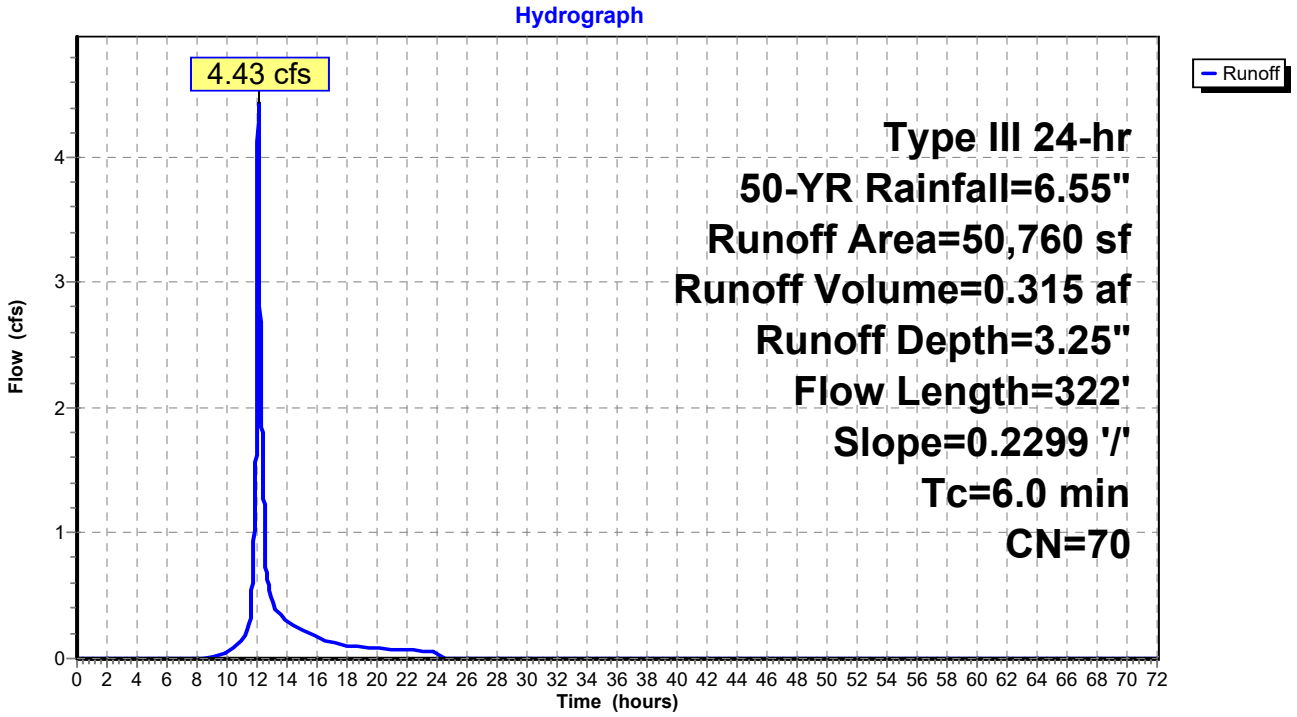
Runoff = 4.43 cfs @ 12.09 hrs, Volume= 0.315 af, Depth= 3.25"
Routed to Pond 201P : FES 201

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
677	70	Woods, Good HSG C
319	98	Paved parking HSG C
7,348	98	Paved parking HSG B
1,028	98	Paved parking HSG A
2,580	30	Woods, Good HSG A
3,641	55	Woods, Good HSG B
5,280	98	Roofs HSG B
1,457	39	>75% Grass cover, Good HSG A
24,565	61	>75% Grass cover, Good HSG B
3,865	74	>75% Grass cover, Good HSG C
50,760	70	Weighted Average
36,785		72.47% Pervious Area
13,975		27.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	322	0.2299	1.50		**Lag/CN Method,**
3.6	322	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 201S: 201S



Summary for Subcatchment 301AS: 301AS

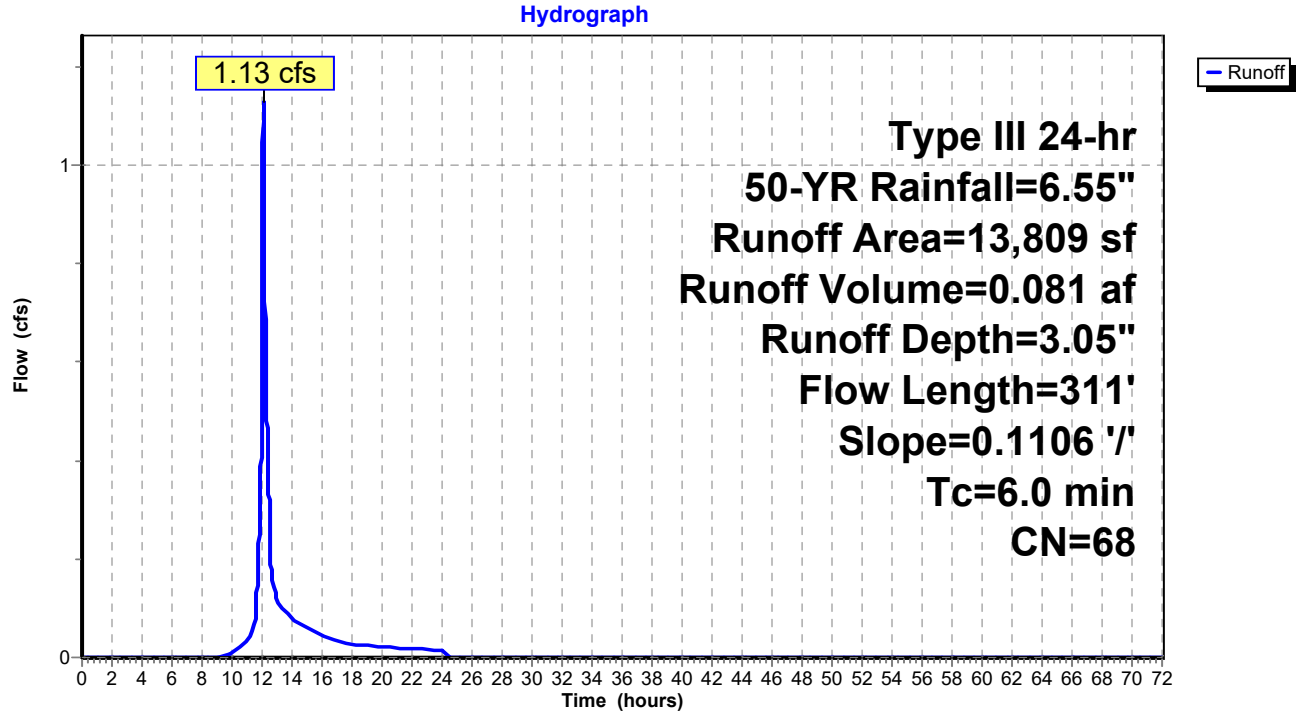
Runoff = 1.13 cfs @ 12.09 hrs, Volume= 0.081 af, Depth= 3.05"
Routed to Pond 301AP : FES 301A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
614	98	Paved parking HSG B
2,249	55	Woods, Good HSG B
1,713	85	Gravel roads HSG B
1,266	98	Roofs HSG B
7,968	61	>75% Grass cover, Good HSG B
13,809	68	Weighted Average
11,929		86.39% Pervious Area
1,880		13.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	311	0.1106	0.98		**Lag/CN Method,**
5.3	311	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 301AS: 301AS



Summary for Subcatchment 301BS: 301BS

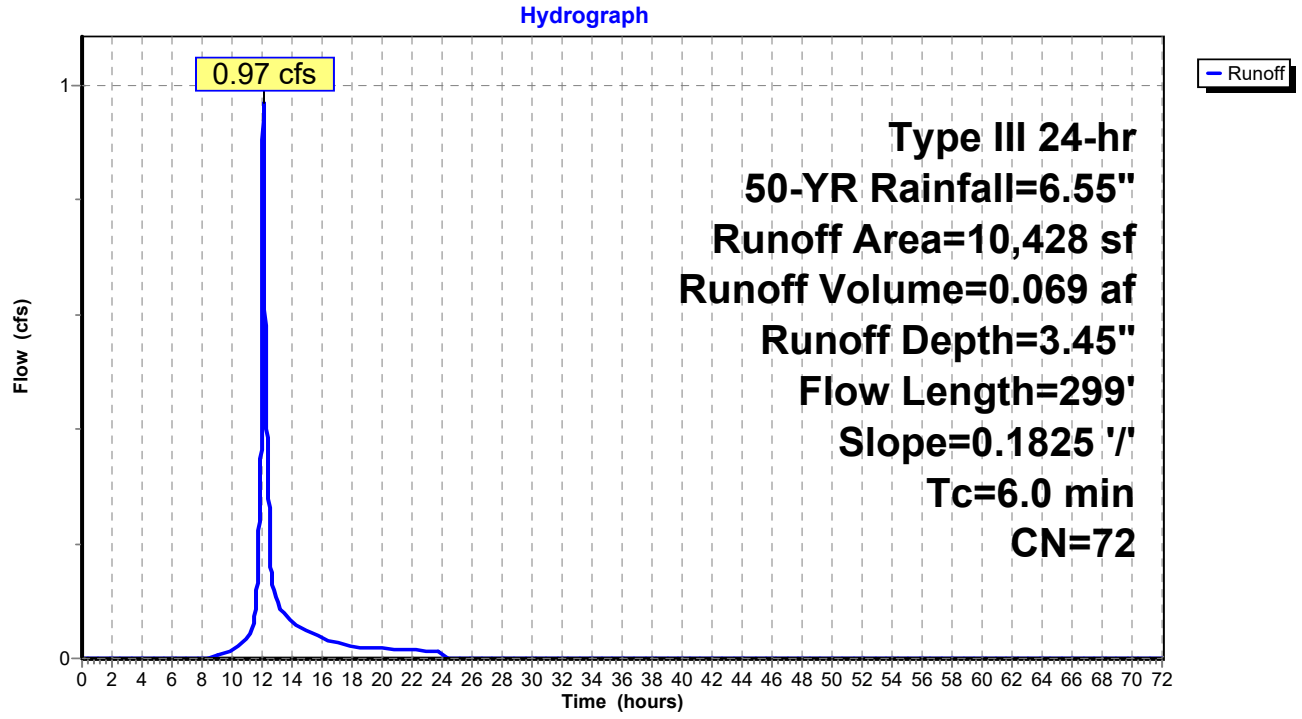
Runoff = 0.97 cfs @ 12.09 hrs, Volume= 0.069 af, Depth= 3.45"
Routed to Pond 301BP : CB 301B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,961	98	Paved parking HSG B
1,630	85	Gravel roads HSG B
6,836	61	>75% Grass cover, Good HSG B
10,428	72	Weighted Average
8,467		81.19% Pervious Area
1,961		18.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	299	0.1825	1.39		**Lag/CN Method,**
3.6	299	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 301BS: 301BS



Summary for Subcatchment 301CS: 301CS

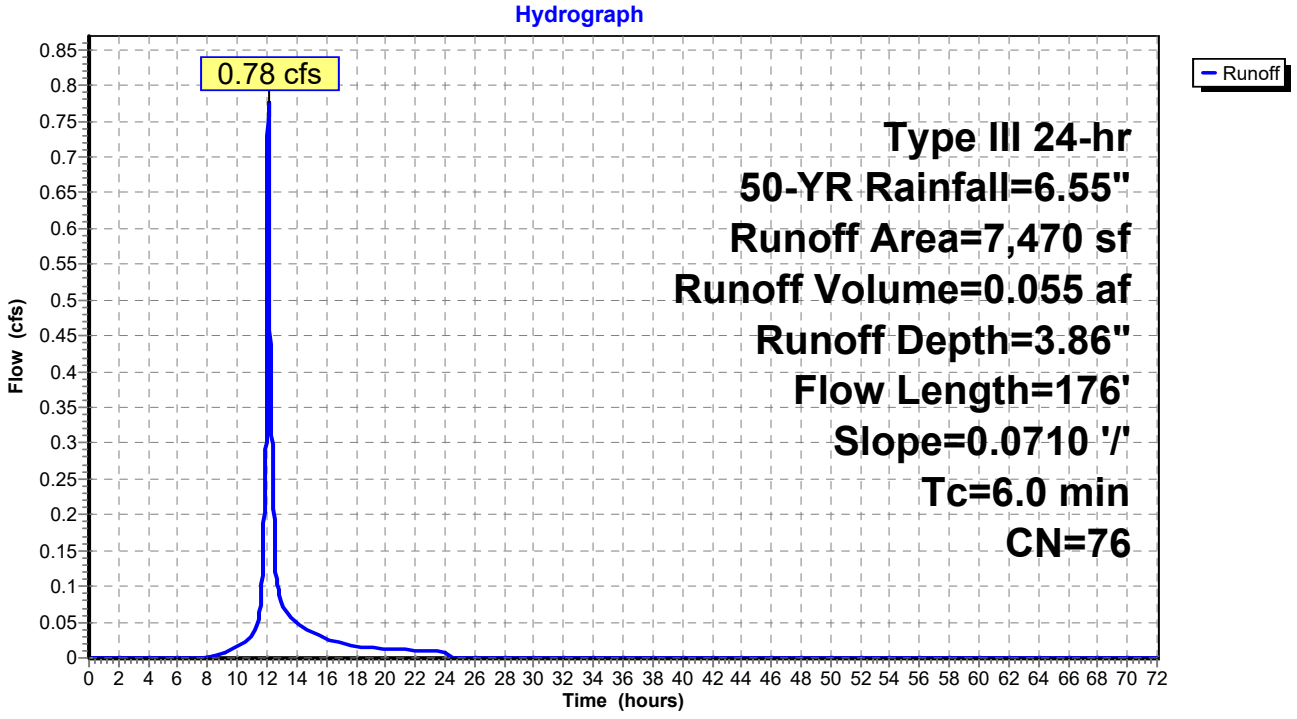
Runoff = 0.78 cfs @ 12.09 hrs, Volume= 0.055 af, Depth= 3.86"
Routed to Pond 301CP : FES 301C

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,999	98	Paved parking HSG B
18	85	Gravel roads HSG B
945	98	Roofs HSG B
4,508	61	>75% Grass cover, Good HSG B
7,470	76	Weighted Average
4,526		60.59% Pervious Area
2,944		39.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.3	176	0.0710	0.88		**Lag/CN Method,**
3.3	176	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 301CS: 301CS



Summary for Subcatchment 301S: 301S

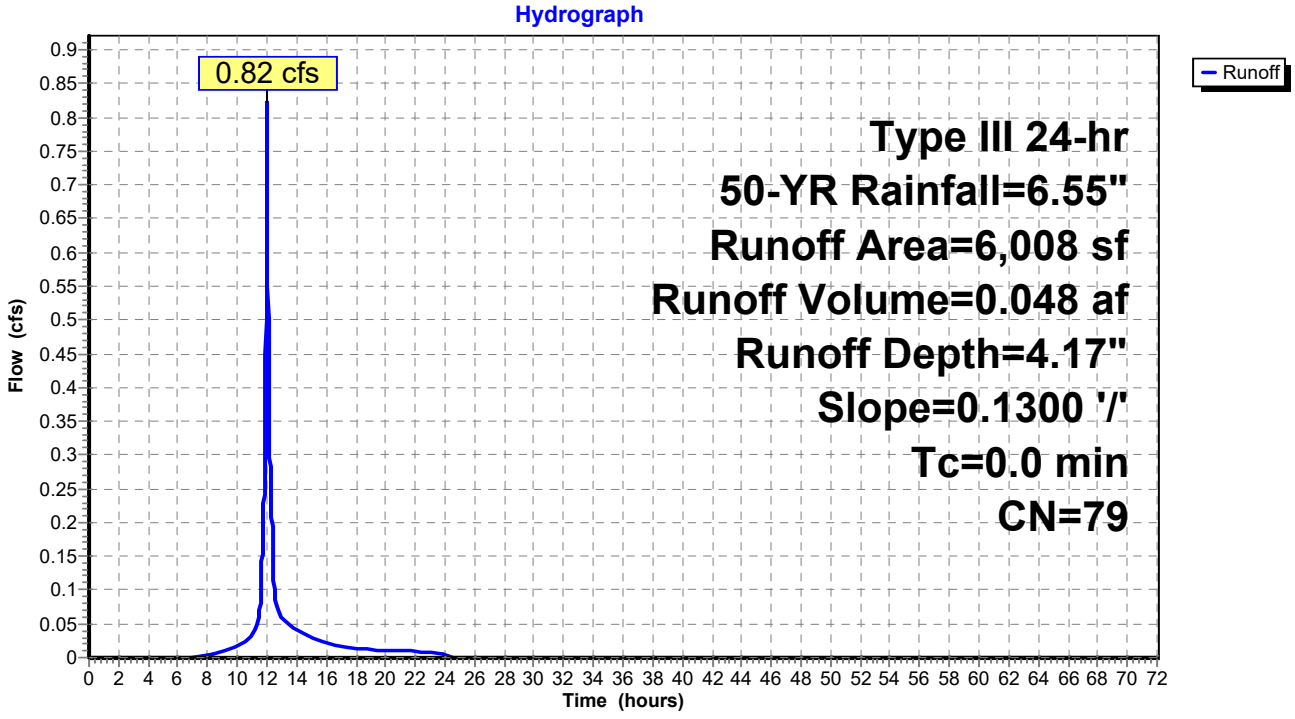
Runoff = 0.82 cfs @ 12.00 hrs, Volume= 0.048 af, Depth= 4.17"
Routed to Pond 301P : CB 301

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
2,595	98	Paved parking HSG B
594	85	Gravel roads HSG B
2,819	61	>75% Grass cover, Good HSG B
6,008	79	Weighted Average
3,413		56.81% Pervious Area
2,595		43.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0		0.1300			**Lag/CN Method,**

Subcatchment 301S: 301S



Summary for Subcatchment 302S: 302S

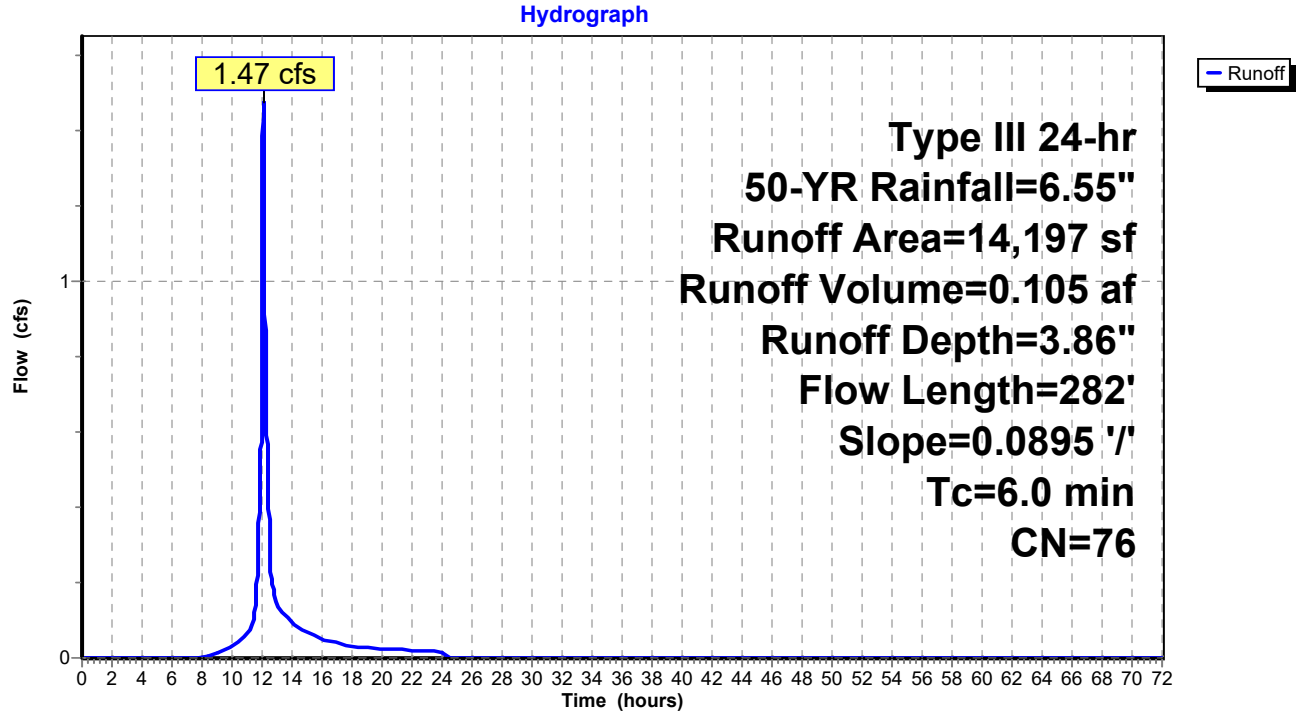
Runoff = 1.47 cfs @ 12.09 hrs, Volume= 0.105 af, Depth= 3.86"
Routed to Pond 302P : CB 302

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
4,368	98	Paved parking HSG B
220	85	Gravel roads HSG B
1,164	98	Roofs HSG B
8,446	61	>75% Grass cover, Good HSG B
14,197	76	Weighted Average
8,666		61.04% Pervious Area
5,531		38.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	282	0.0895	1.08		**Lag/CN Method,**
4.4	282	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 302S: 302S



Summary for Subcatchment 303S: 303S

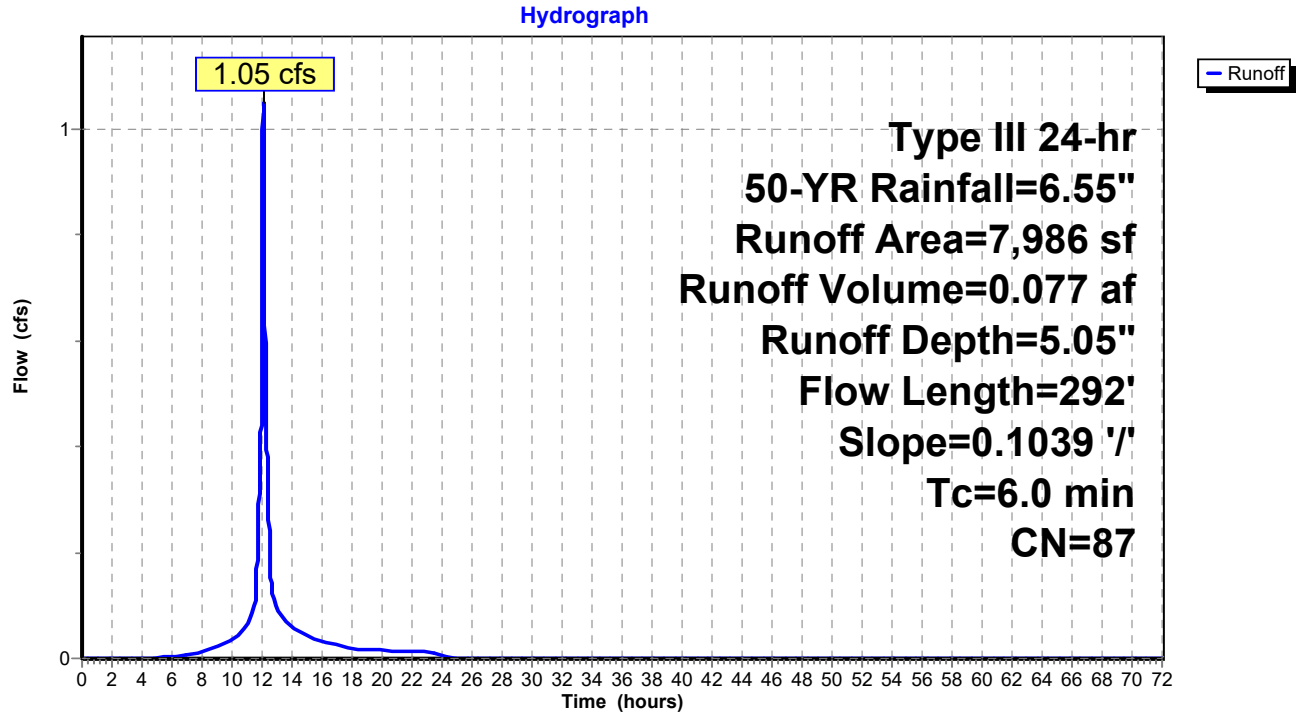
Runoff = 1.05 cfs @ 12.09 hrs, Volume= 0.077 af, Depth= 5.05"
Routed to Pond 303P : CB 303

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
4,730	98	Paved parking HSG B
798	98	Roofs HSG B
2,459	61	>75% Grass cover, Good HSG B
7,986	87	Weighted Average
2,459		30.79% Pervious Area
5,528		69.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	292	0.1039	1.68		**Lag/CN Method,**
2.9	292	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 303S: 303S



Summary for Subcatchment 304S: 304S

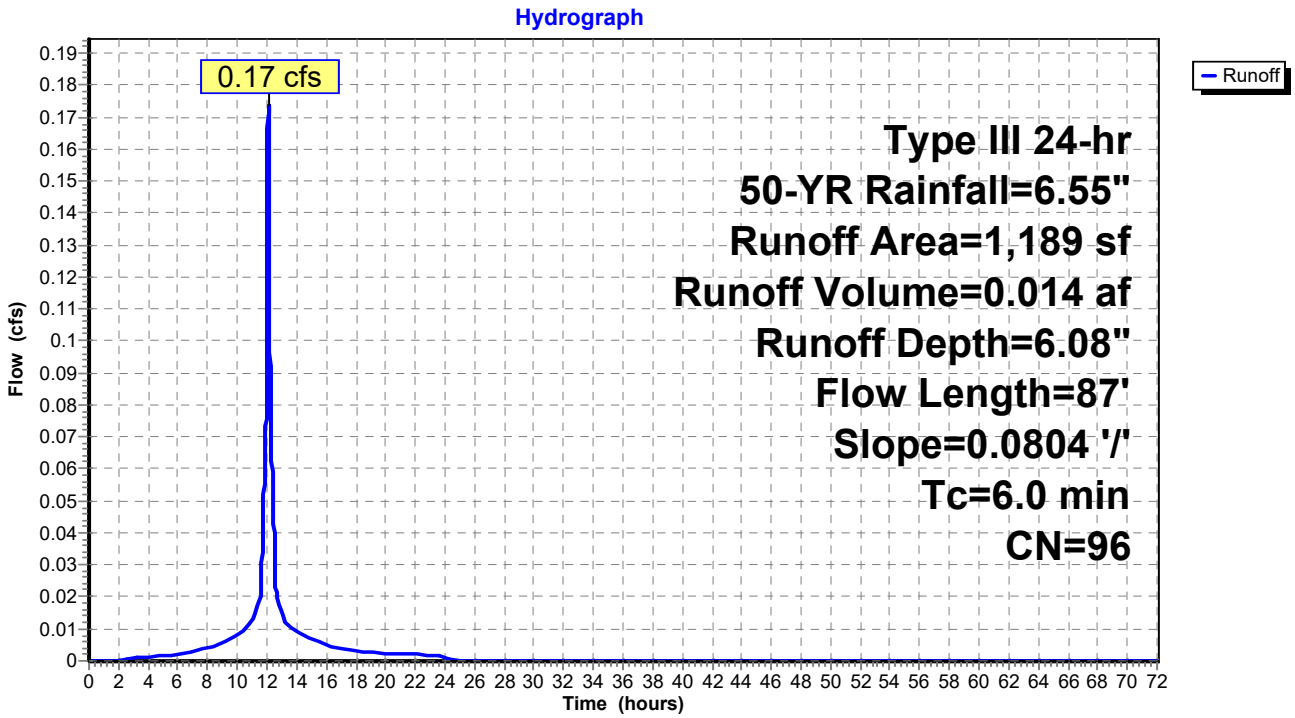
Runoff = 0.17 cfs @ 12.08 hrs, Volume= 0.014 af, Depth= 6.08"
Routed to Pond 304P : CB 304

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,135	98	Paved parking HSG B
54	61	>75% Grass cover, Good HSG B
1,189	96	Weighted Average
54		4.55% Pervious Area
1,135		95.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	87	0.0804	1.72		**Lag/CN Method,**
0.8	87	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 304S: 304S



Summary for Subcatchment 305S: 305S

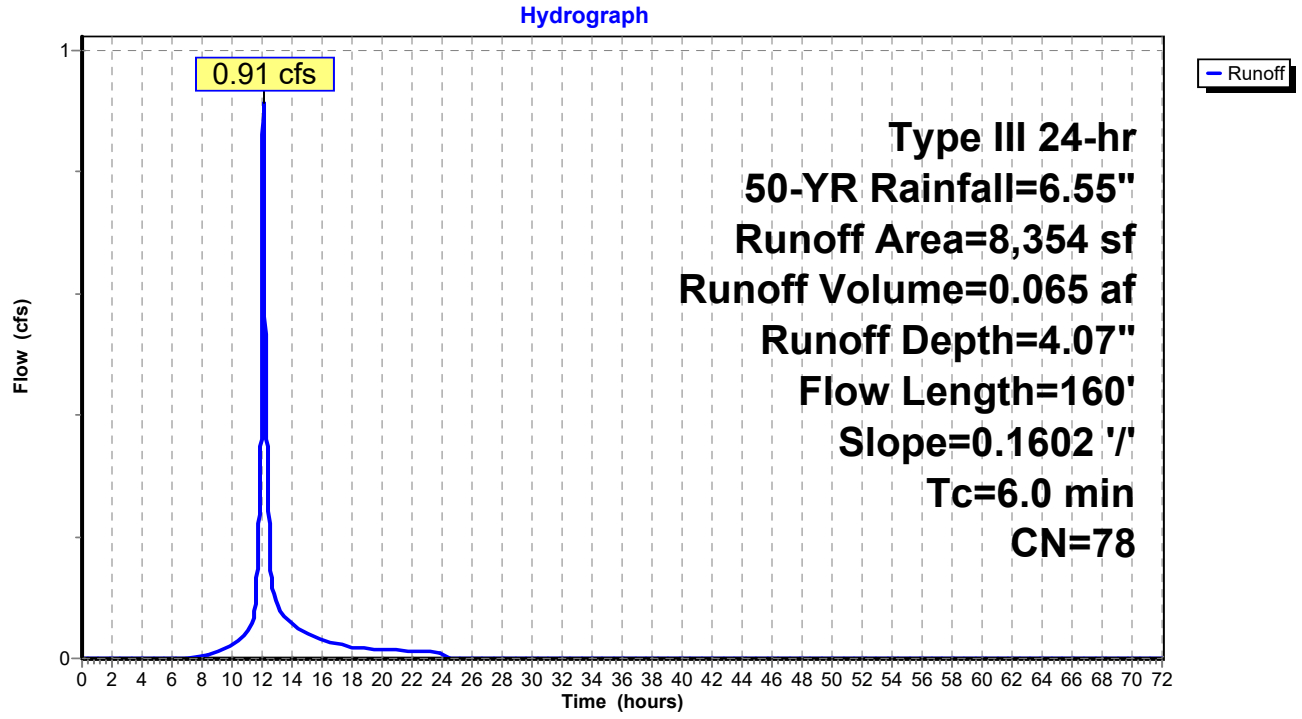
Runoff = 0.91 cfs @ 12.09 hrs, Volume= 0.065 af, Depth= 4.07"
Routed to Pond 305P : CB 305

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
2,538	98	Paved parking HSG B
1,329	98	Roofs HSG B
4,487	61	>75% Grass cover, Good HSG B
8,354	78	Weighted Average
4,487		53.71% Pervious Area
3,867		46.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.9	160	0.1602	1.37		**Lag/CN Method,**
1.9	160	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 305S: 305S



Summary for Subcatchment 306S: 306S

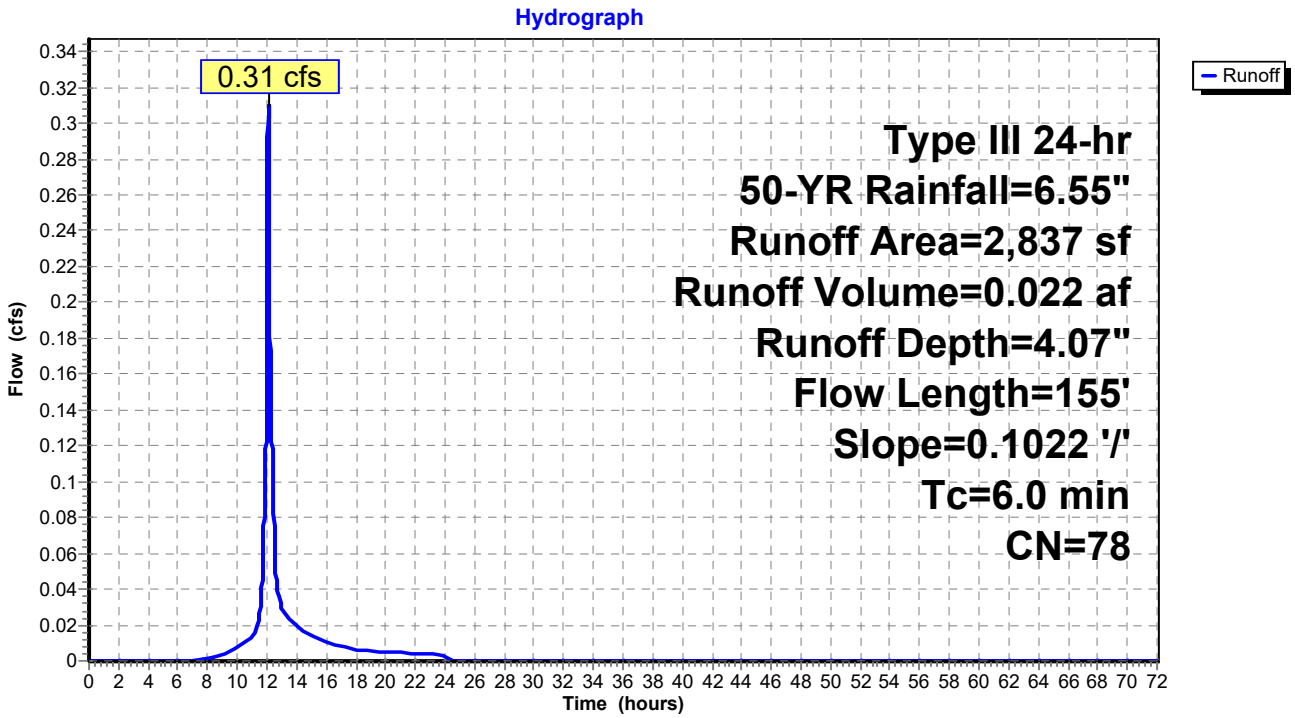
Runoff = 0.31 cfs @ 12.09 hrs, Volume= 0.022 af, Depth= 4.07"
Routed to Pond 306P : CB 306

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,291	98	Paved parking HSG B
1,546	61	>75% Grass cover, Good HSG B
2,837	78	Weighted Average
1,546		54.49% Pervious Area
1,291		45.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	155	0.1022	1.09		**Lag/CN Method,**
2.4	155	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 306S: 306S



Summary for Subcatchment 307S: 307S

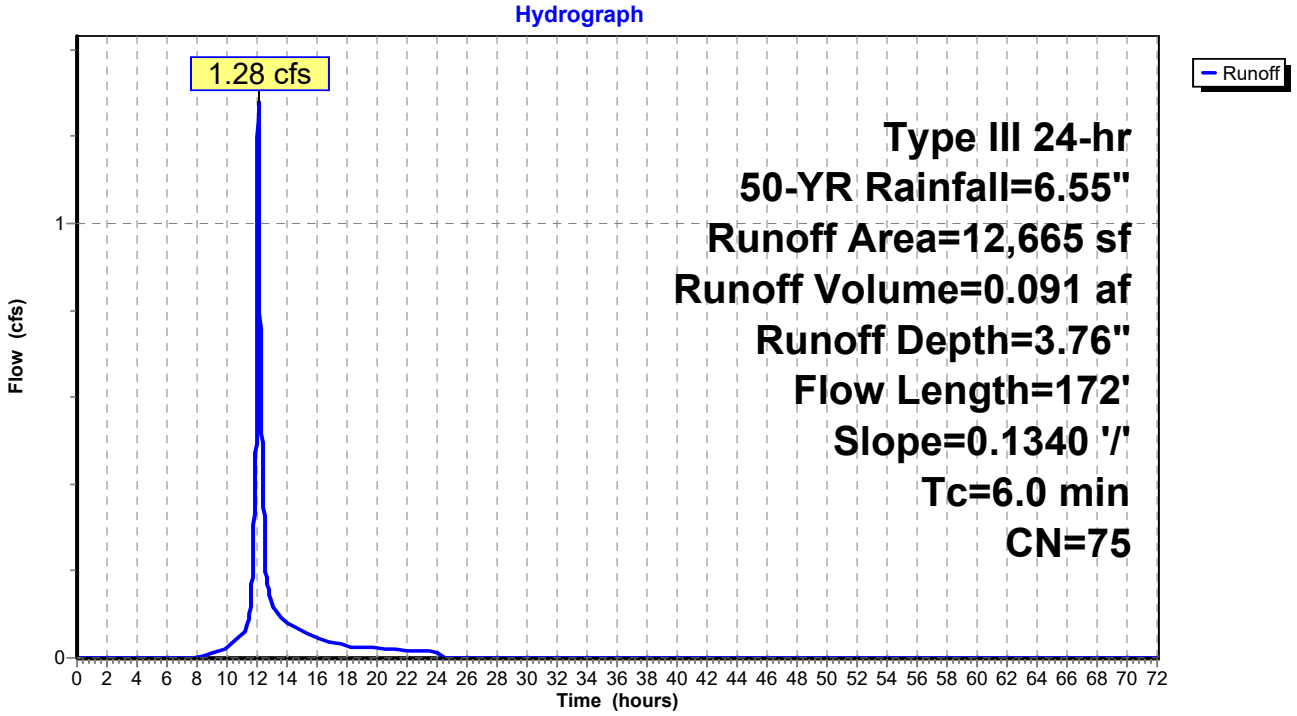
Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.091 af, Depth= 3.76"
Routed to Pond 307P : CB 307

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
3,329	98	Paved parking HSG B
1,787	55	Woods, Good HSG B
1,899	98	Roofs HSG B
5,650	61	>75% Grass cover, Good HSG B
12,665	75	Weighted Average
7,437		58.72% Pervious Area
5,228		41.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	172	0.1340	1.16		**Lag/CN Method,**
2.5	172	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 307S: 307S



Summary for Subcatchment 308S: 308S

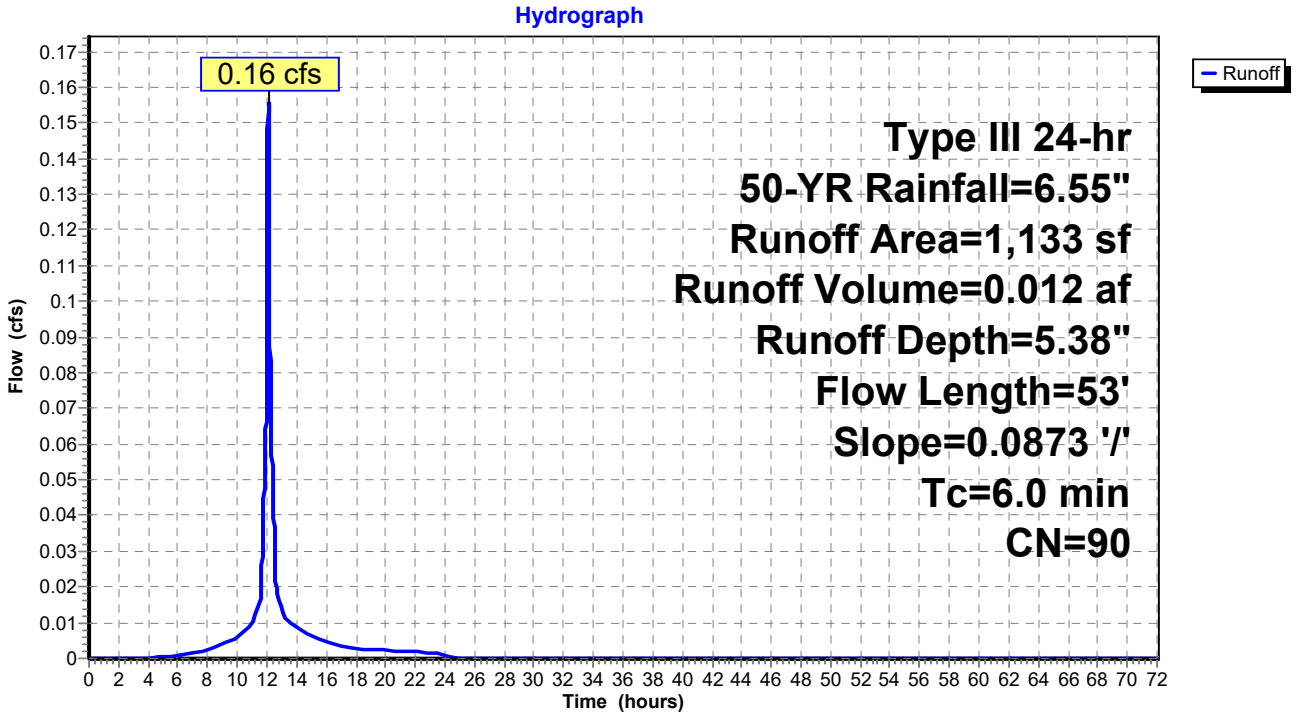
Runoff = 0.16 cfs @ 12.08 hrs, Volume= 0.012 af, Depth= 5.38"
Routed to Pond 308P : CB 308

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
891	98	Paved parking HSG B
12	55	Woods, Good HSG B
231	61	>75% Grass cover, Good HSG B
1,133	90	Weighted Average
242		21.39% Pervious Area
891		78.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	53	0.0873	1.23		**Lag/CN Method,**
0.7	53	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 308S: 308S



Summary for Subcatchment 309S: 309S

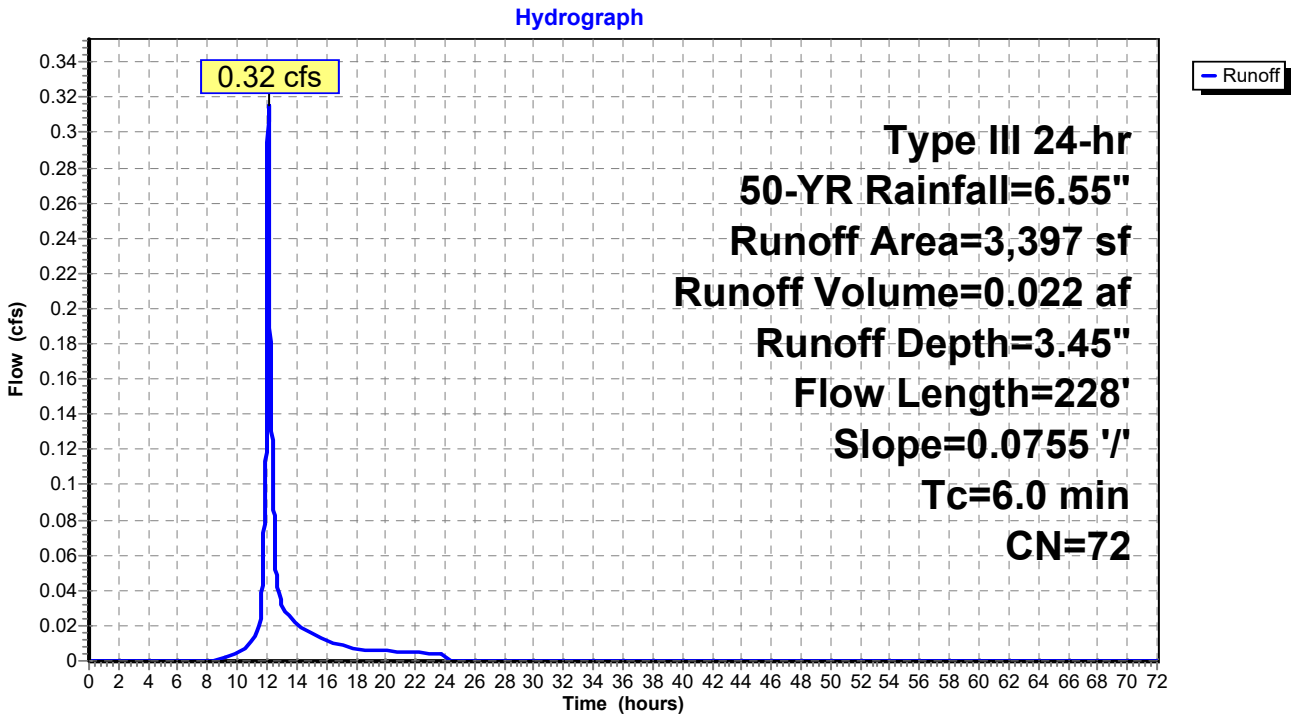
Runoff = 0.32 cfs @ 12.09 hrs, Volume= 0.022 af, Depth= 3.45"
Routed to Pond 309P : CB 309

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,019	98	Paved parking HSG B
2,378	61	>75% Grass cover, Good HSG B
3,397	72	Weighted Average
2,378		70.00% Pervious Area
1,019		30.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.5	228	0.0755	0.85		**Lag/CN Method,**
4.5	228	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 309S: 309S



Summary for Subcatchment 310S: 310S

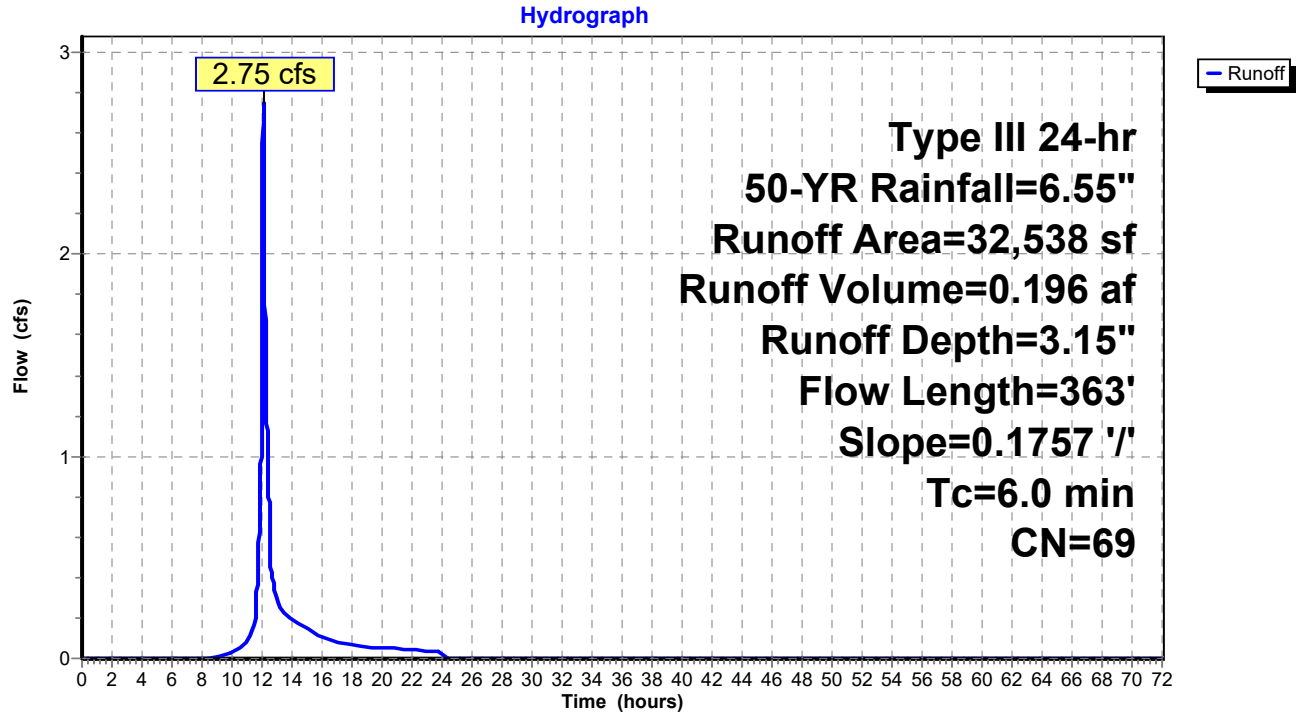
Runoff = 2.75 cfs @ 12.09 hrs, Volume= 0.196 af, Depth= 3.15"
Routed to Pond 310P : CB 310

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
4,077	98	Paved parking HSG B
2,900	98	Roofs HSG B
25,561	61	>75% Grass cover, Good HSG B
32,538	69	Weighted Average
25,561		78.56% Pervious Area
6,977		21.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	363	0.1757	1.31		**Lag/CN Method,**
4.6	363	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 310S: 310S



Summary for Subcatchment 311S: 311S

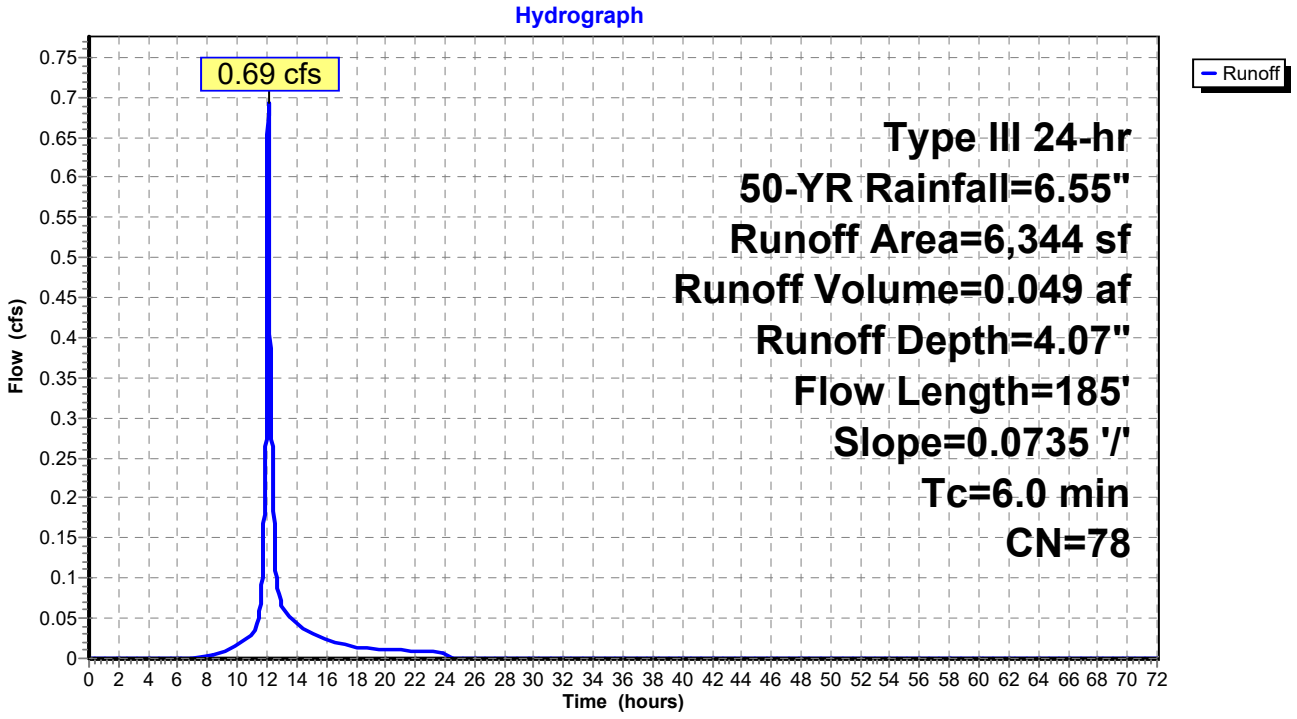
Runoff = 0.69 cfs @ 12.09 hrs, Volume= 0.049 af, Depth= 4.07"
Routed to Pond 311P : CB 311

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,912	98	Paved parking HSG B
1,005	98	Roofs HSG B
3,428	61	>75% Grass cover, Good HSG B
6,344	78	Weighted Average
3,428		54.03% Pervious Area
2,917		45.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.2	185	0.0735	0.95		**Lag/CN Method,**
3.2	185	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 311S: 311S



Summary for Subcatchment 312S: 312S

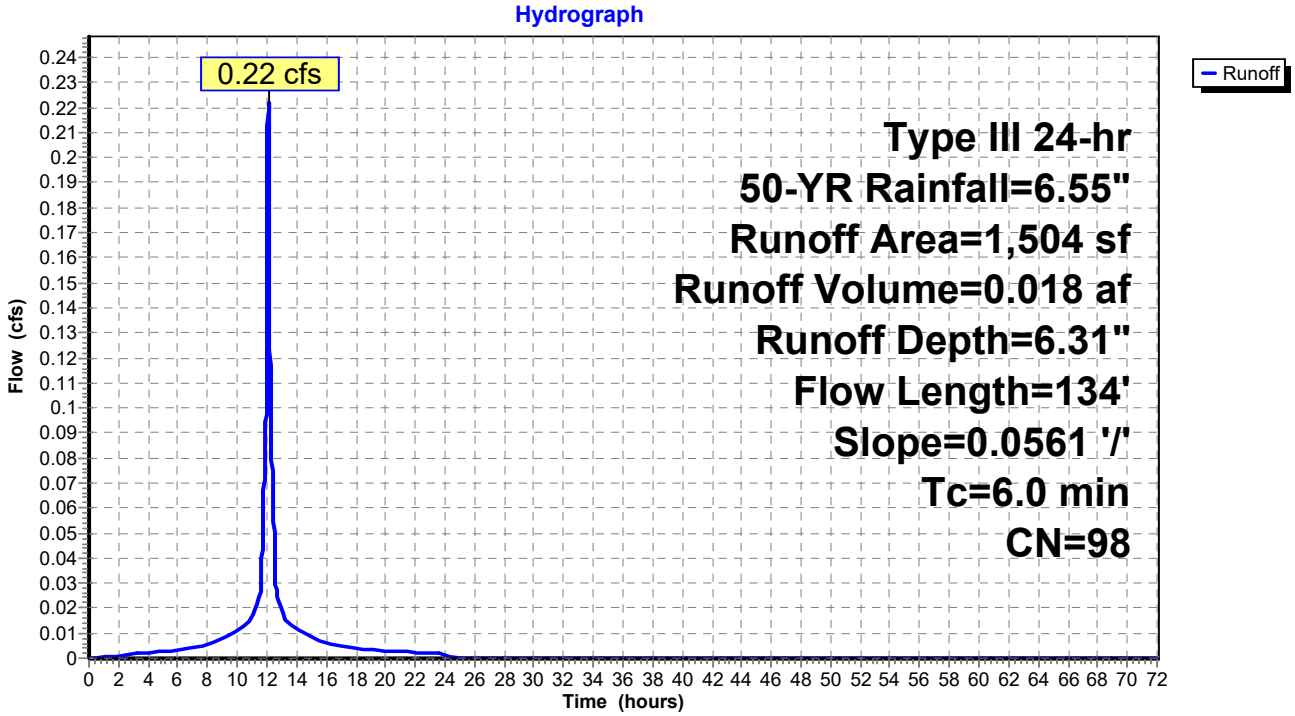
Runoff = 0.22 cfs @ 12.08 hrs, Volume= 0.018 af, Depth= 6.31"
Routed to Pond 312P : CB 312

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,504	98	Paved parking HSG B
1,504		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	134	0.0561	1.75		**Lag/CN Method,**
1.3	134	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 312S: 312S



Summary for Subcatchment 313S: 313S

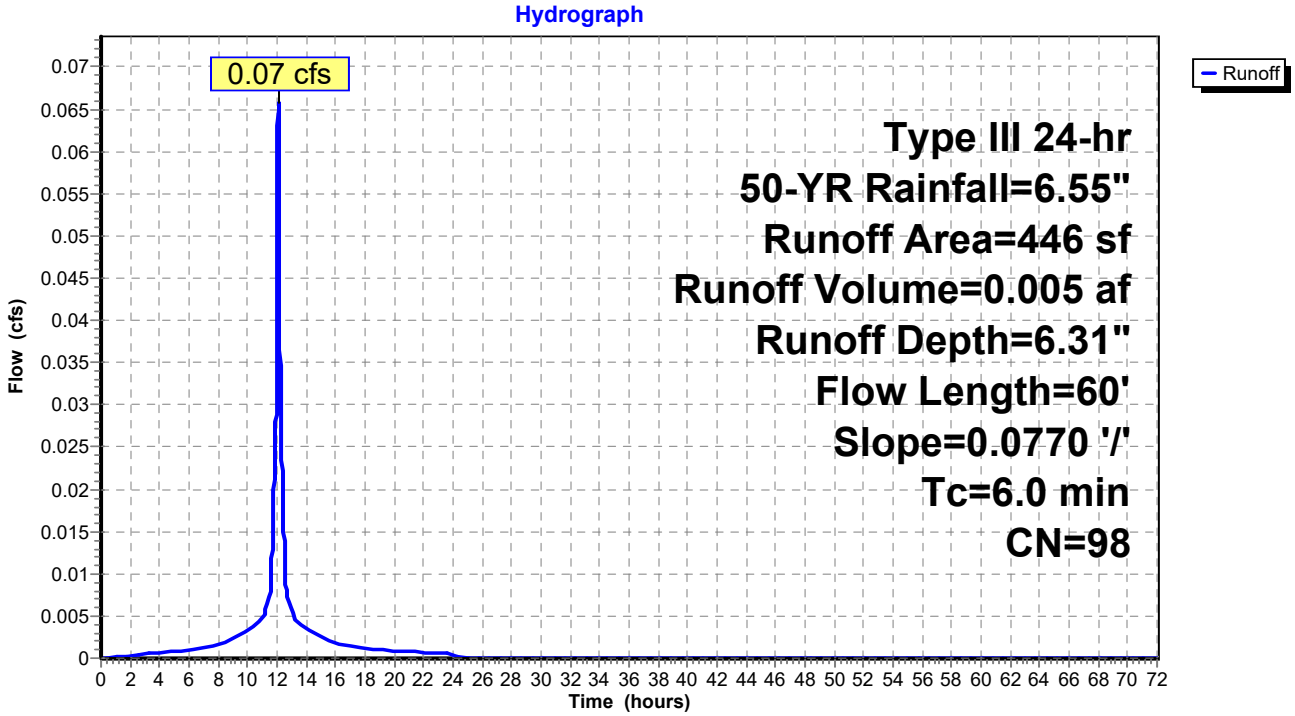
Runoff = 0.07 cfs @ 12.08 hrs, Volume= 0.005 af, Depth= 6.31"
Routed to Pond 313P : CB 313

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
446	98	Paved parking HSG B
446		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	60	0.0770	1.75		**Lag/CN Method,**
0.6	60	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 313S: 313S



Summary for Subcatchment 314S: 314S

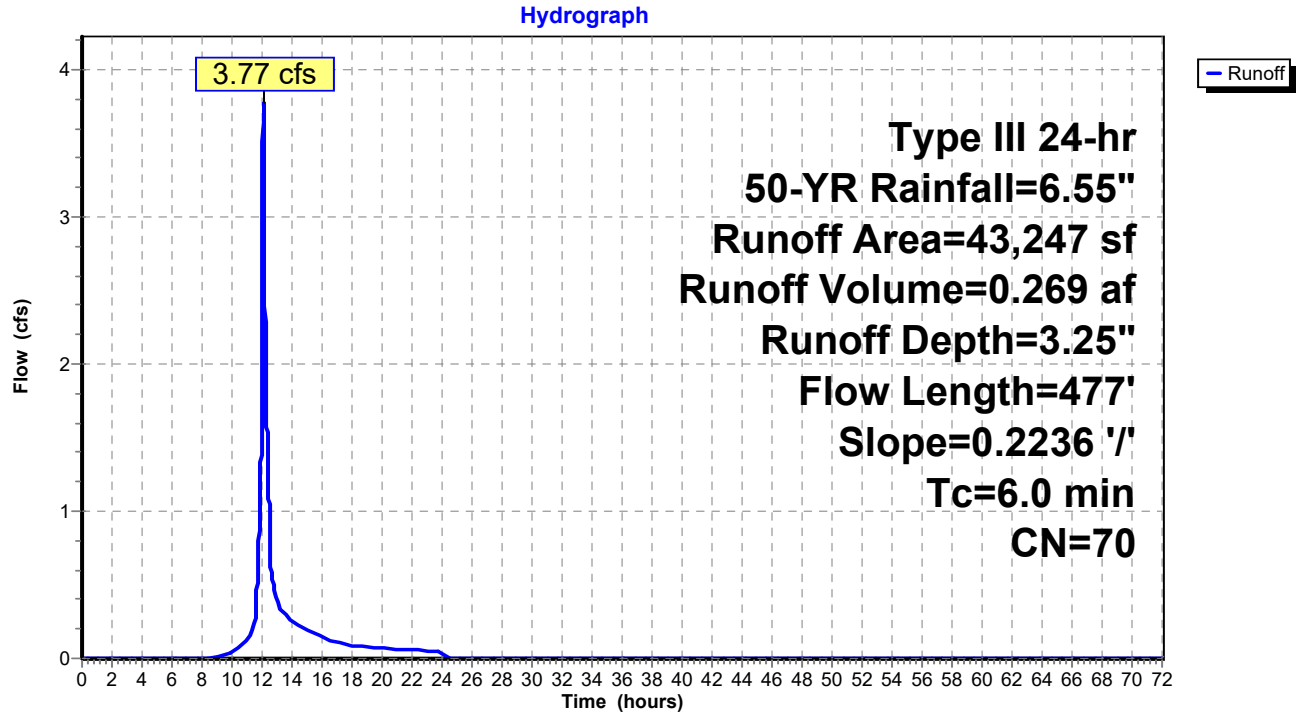
Runoff = 3.77 cfs @ 12.09 hrs, Volume= 0.269 af, Depth= 3.25"
Routed to Pond 314P : CB 314

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
6,782	98	Paved parking HSG B
3,338	98	Roofs HSG B
33,127	61	>75% Grass cover, Good HSG B
43,247	70	Weighted Average
33,127		76.60% Pervious Area
10,120		23.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	477	0.2236	1.60		**Lag/CN Method,**
5.0	477	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 314S: 314S



Summary for Subcatchment 315S: 315S

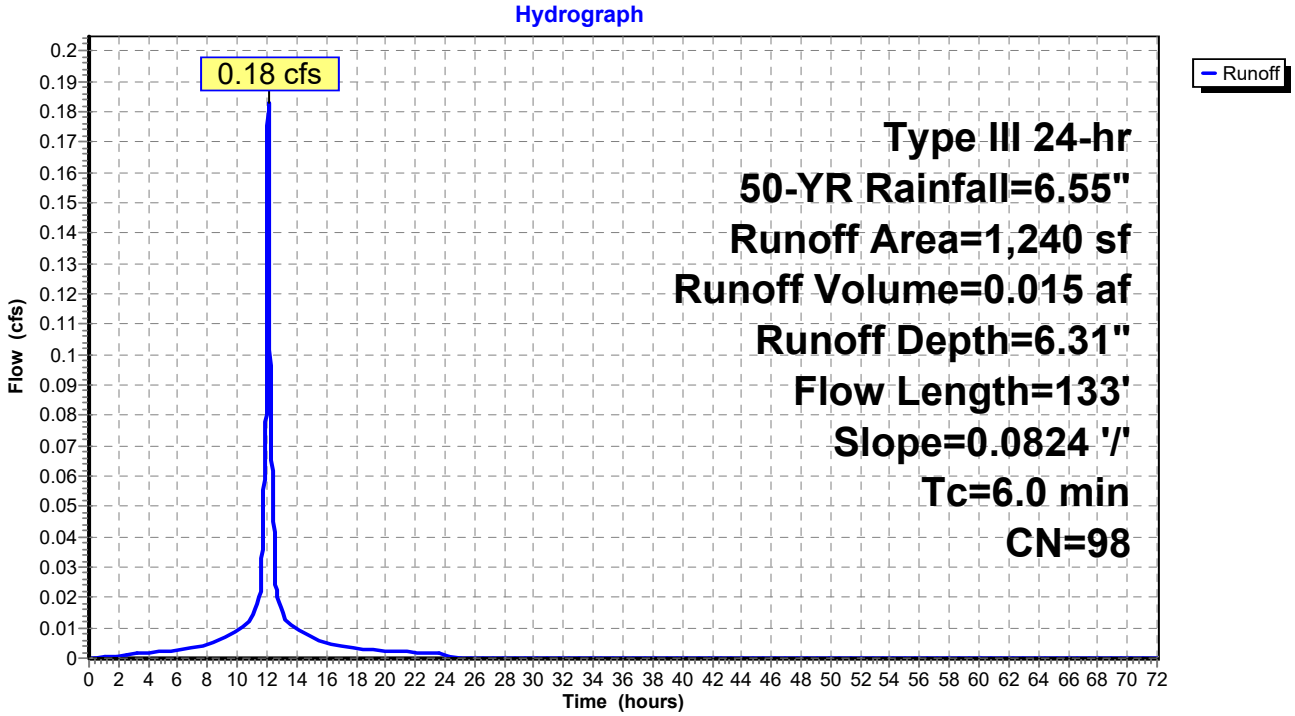
Runoff = 0.18 cfs @ 12.08 hrs, Volume= 0.015 af, Depth= 6.31"
Routed to Pond 315P : CB 315

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,240	98	Paved parking HSG B
1,240		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	133	0.0824	2.12		**Lag/CN Method,**
1.0	133	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 315S: 315S



Summary for Subcatchment 316S: 316S

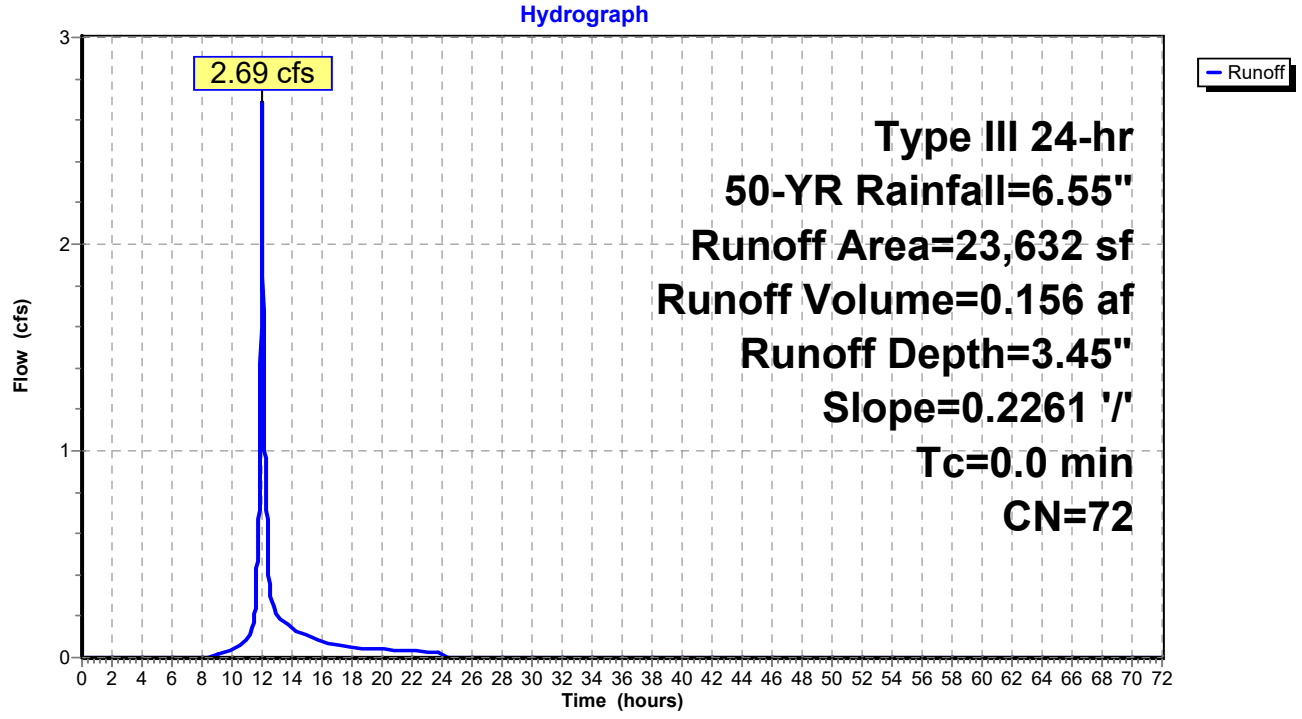
Runoff = 2.69 cfs @ 12.00 hrs, Volume= 0.156 af, Depth= 3.45"
Routed to Pond 316P : CB 316

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
3,534	98	Paved parking HSG B
3,330	98	Roofs HSG B
16,768	61	>75% Grass cover, Good HSG B
23,632	72	Weighted Average
16,768		70.96% Pervious Area
6,864		29.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0		0.2261			**Lag/CN Method,**

Subcatchment 316S: 316S



Summary for Subcatchment 317S: 317S

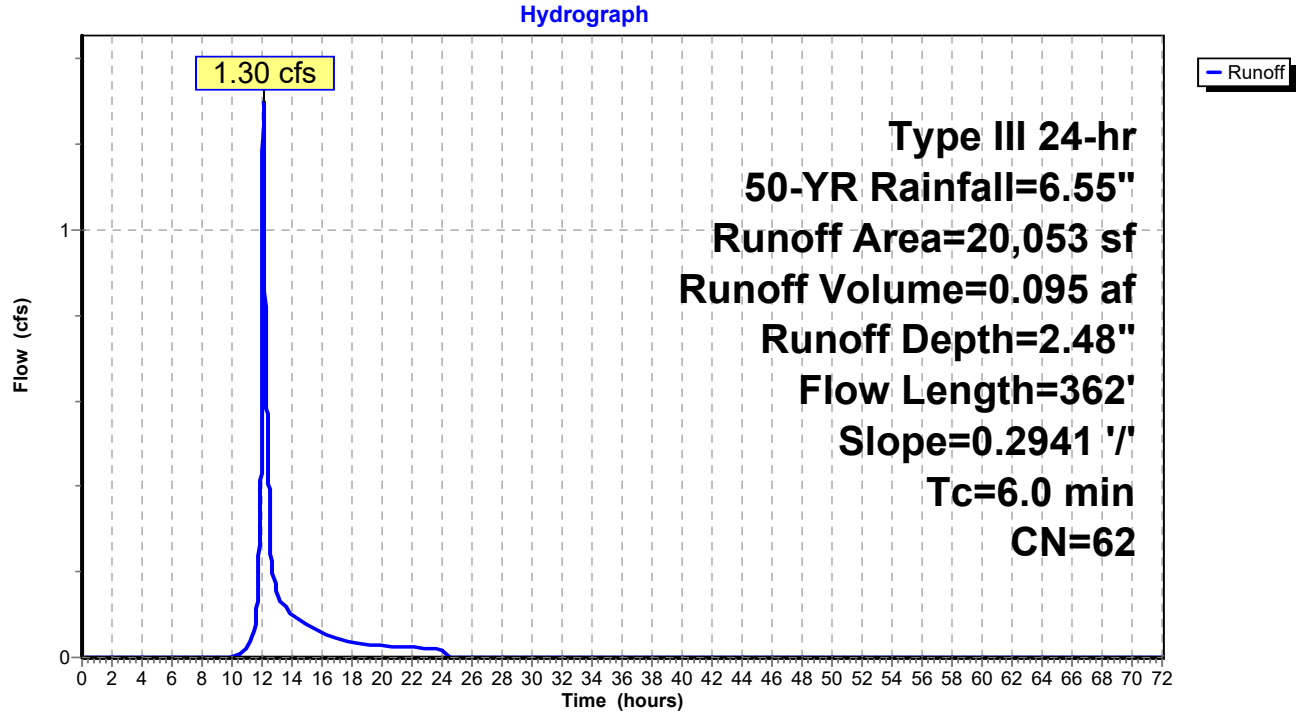
Runoff = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Depth= 2.48"
Routed to Pond 317P : FES 317

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,129	55	Woods, Good HSG B
2,639	98	Paved parking HSG B
678	30	Woods, Good HSG A
2,136	39	>75% Grass cover, Good HSG A
13,471	61	>75% Grass cover, Good HSG B
20,053	62	Weighted Average
17,415		86.84% Pervious Area
2,639		13.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	362	0.2941	1.41		**Lag/CN Method,**
4.3	362	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 317S: 317S



Summary for Subcatchment 318S: 318S

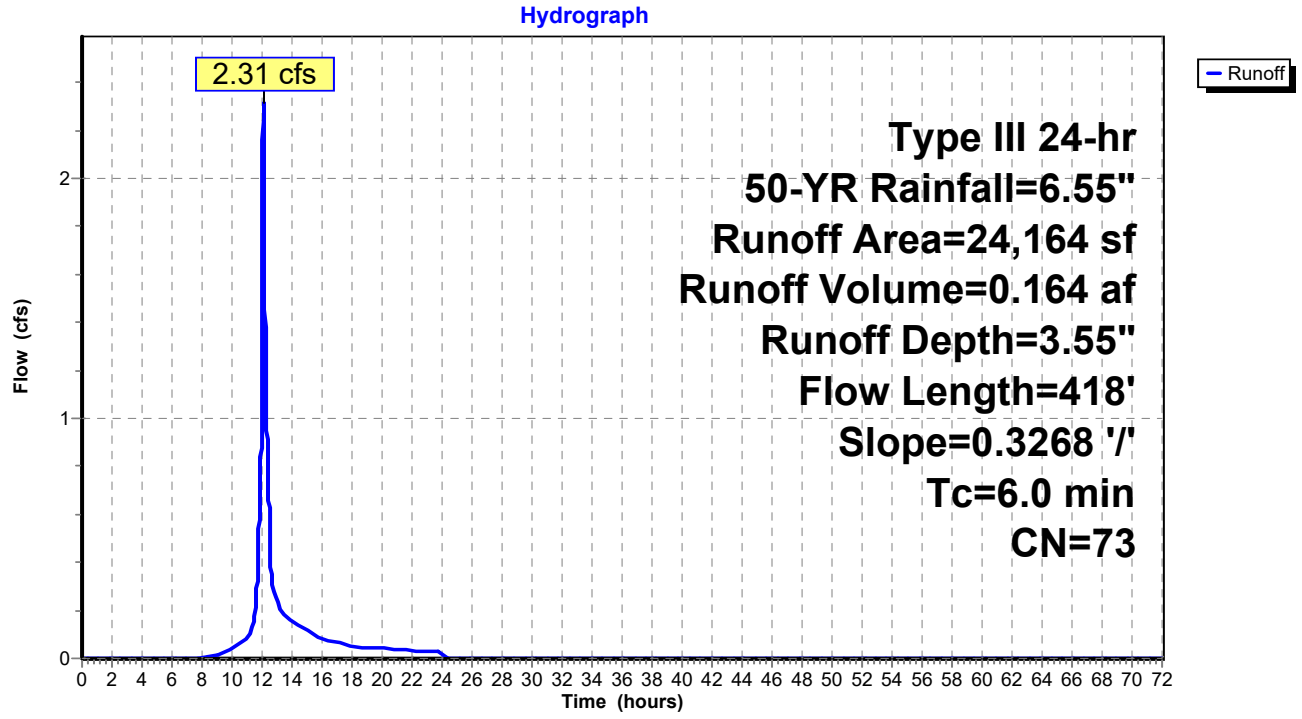
Runoff = 2.31 cfs @ 12.09 hrs, Volume= 0.164 af, Depth= 3.55"
Routed to Pond 318P : CB 318

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
5,501	98	Paved parking HSG B
2,400	98	Roofs HSG B
16,263	61	>75% Grass cover, Good HSG B
24,164	73	Weighted Average
16,263		67.30% Pervious Area
7,901		32.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	418	0.3268	2.05		**Lag/CN Method,**
3.4	418	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 318S: 318S



Summary for Subcatchment 319S: 319S

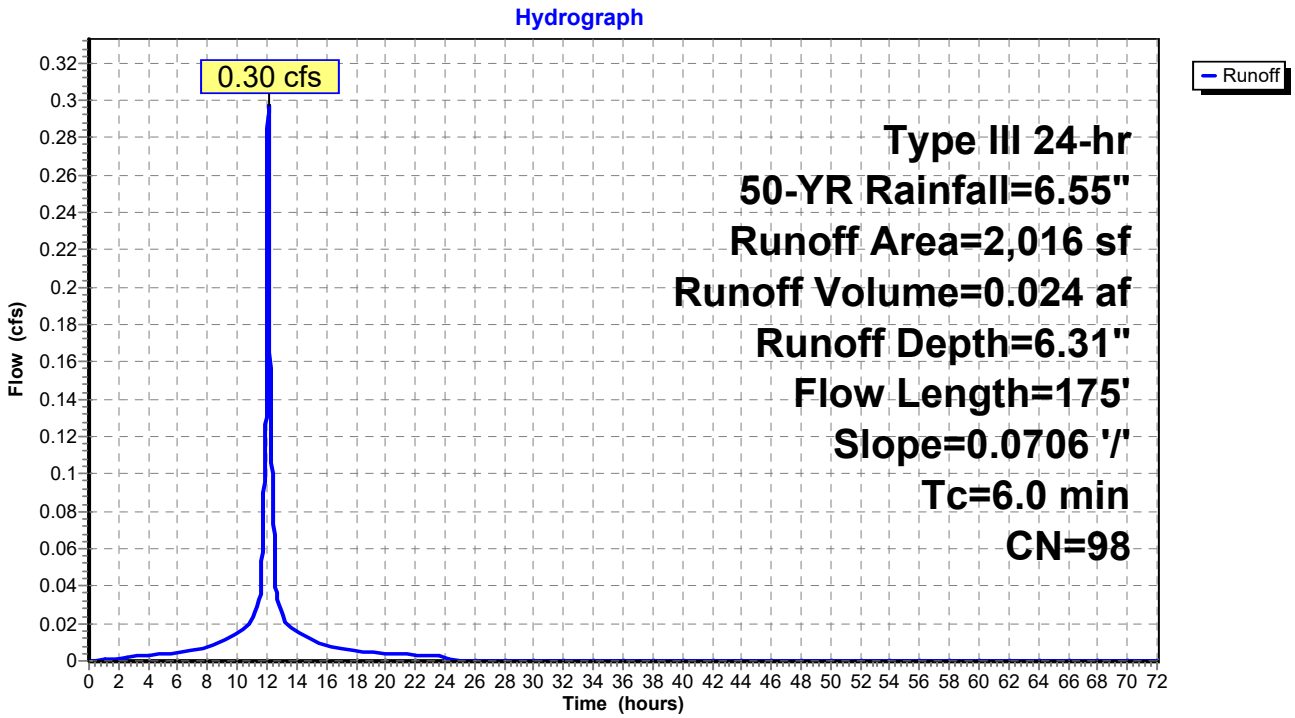
Runoff = 0.30 cfs @ 12.08 hrs, Volume= 0.024 af, Depth= 6.31"
Routed to Pond 319P : CB 319

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
2,014	98	Paved parking HSG B
2	61	>75% Grass cover, Good HSG B
2,016	98	Weighted Average
2		0.10% Pervious Area
2,014		99.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	175	0.0706	2.08		**Lag/CN Method,**
1.4	175	Total, Increased to minimum Tc = 6.0 min			

Subcatchment 319S: 319S



Summary for Subcatchment 404S: 404S

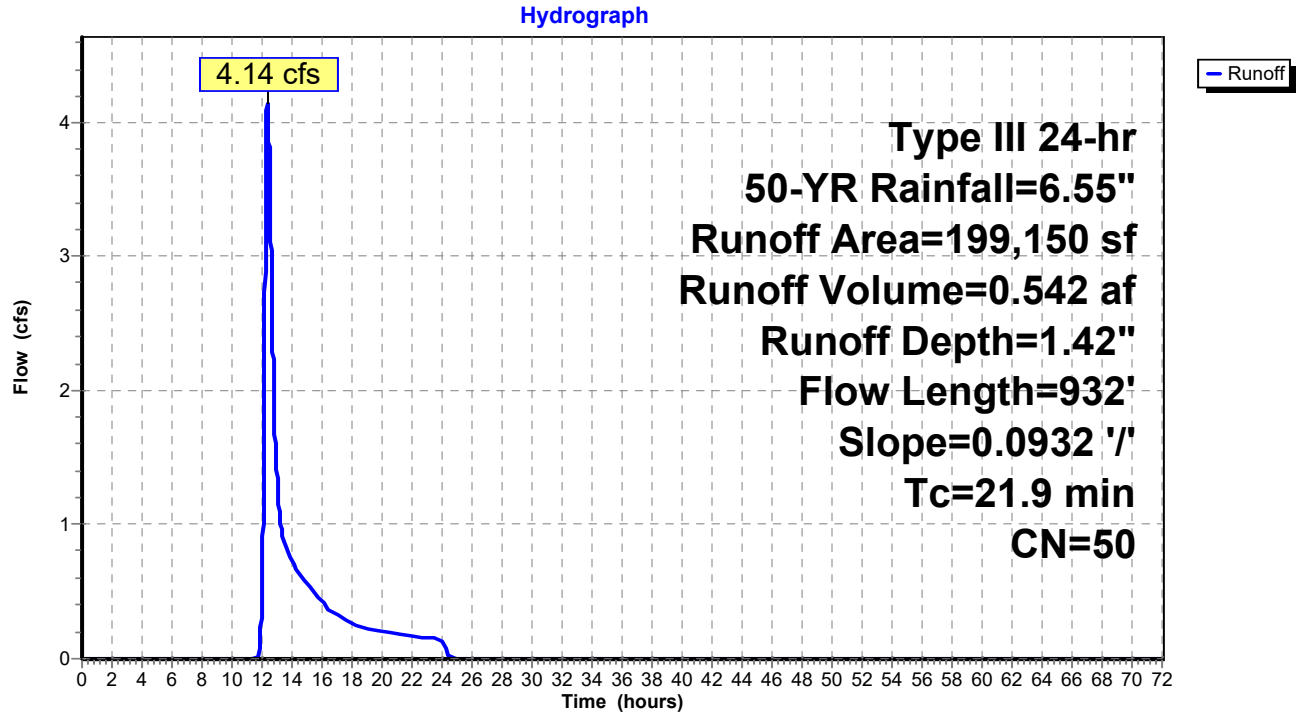
Runoff = 4.14 cfs @ 12.36 hrs, Volume= 0.542 af, Depth= 1.42"
Routed to Pond 404P : Culvert

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-YR Rainfall=6.55"

Area (sf)	CN	Description
1,696	98	Roofs HSG C
502	76	Gravel roads HSG A
6,552	98	Paved parking HSG A
779	98	Paved parking HSG C
1,308	98	Paved parking HSG B
86	85	Gravel roads HSG B
14,515	98	Roofs HSG A
153,248	39	>75% Grass cover, Good HSG A
20,464	74	>75% Grass cover, Good HSG C
199,150	50	Weighted Average
174,300		87.52% Pervious Area
24,849		12.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	932	0.0932	0.71		**Lag/CN Method,**

Subcatchment 404S: 404S



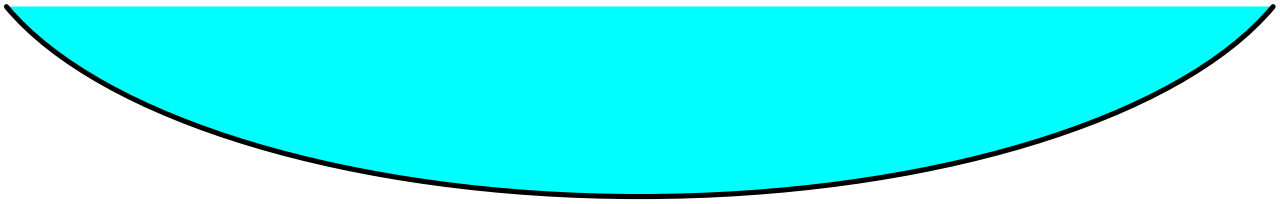
Summary for Reach 3R: Hill Brook

Inflow Area = 19.419 ac, 1.73% Impervious, Inflow Depth = 2.48" for 50-YR event
Inflow = 28.80 cfs @ 12.52 hrs, Volume= 4.005 af
Outflow = 25.48 cfs @ 12.67 hrs, Volume= 4.005 af, Atten= 12%, Lag= 9.1 min
Routed to Pond 3P : HW 300

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.07 fps, Min. Travel Time= 12.7 min
Avg. Velocity = 0.60 fps, Avg. Travel Time= 65.2 min

Peak Storage= 19,421 cf @ 12.67 hrs
Average Depth at Peak Storage= 1.26' , Surface Width= 10.09'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 16.47 cfs

9.00' x 1.00' deep Parabolic Channel, n= 0.070 Sluggish weedy reaches w/pools
Length= 2,339.0' Slope= 0.0299 '/'
Inlet Invert= 334.00', Outlet Invert= 264.00'



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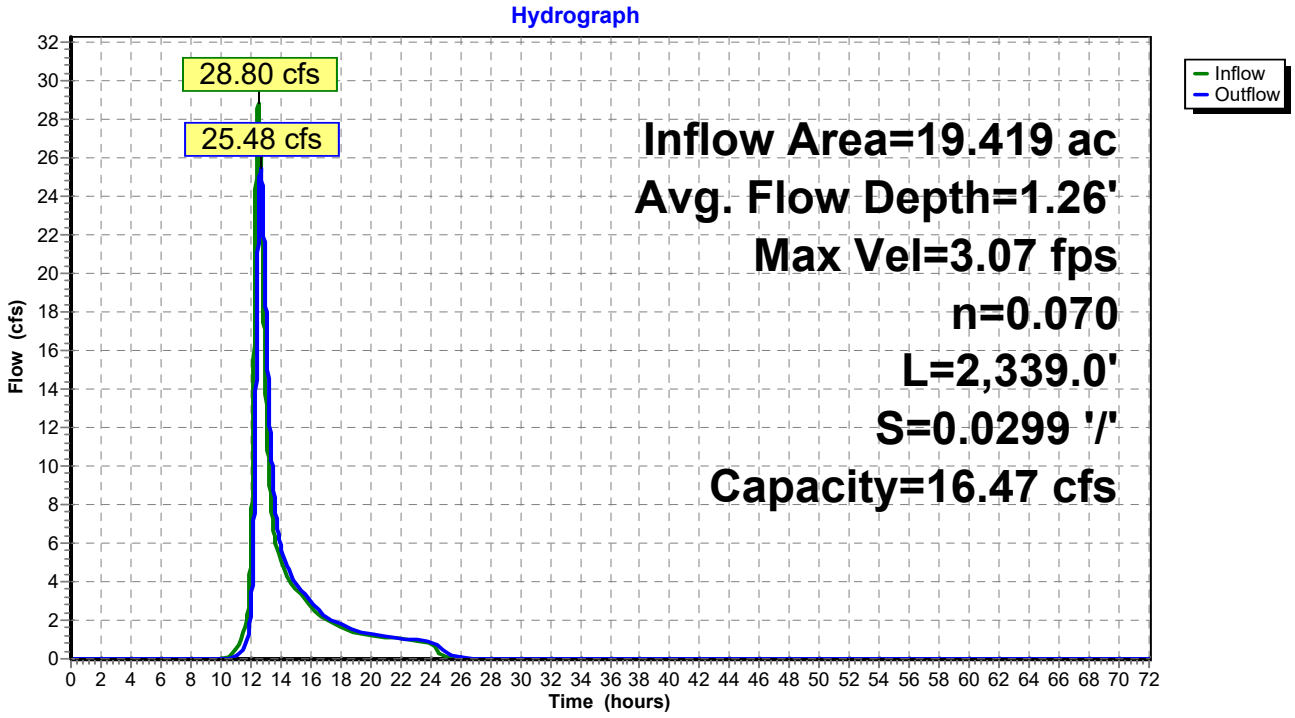
Reach 3R: Hill Brook



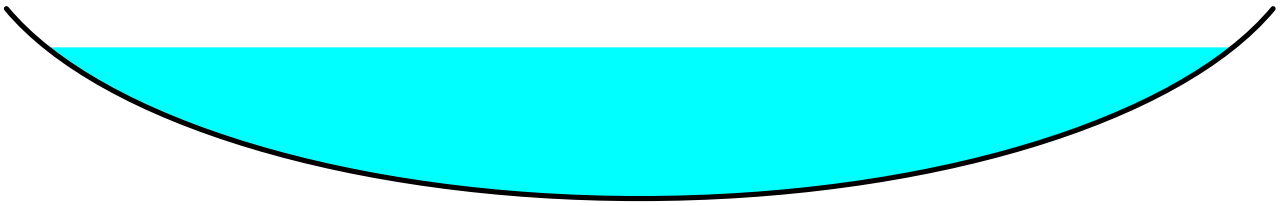
Summary for Reach 4R: Farm Brook

Inflow Area = 25.710 ac, 7.47% Impervious, Inflow Depth = 2.45" for 50-YR event
Inflow = 30.67 cfs @ 12.61 hrs, Volume= 5.239 af
Outflow = 30.62 cfs @ 12.64 hrs, Volume= 5.239 af, Atten= 0%, Lag= 1.7 min
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.82 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 0.53 fps, Avg. Travel Time= 11.1 min

Peak Storage= 3,828 cf @ 12.64 hrs
Average Depth at Peak Storage= 0.80' , Surface Width= 20.51'
Bank-Full Depth= 1.00' Flow Area= 15.3 sf, Capacity= 50.25 cfs

23.00' x 1.00' deep Parabolic Channel, n= 0.070 Sluggish weedy reaches w/pools
Length= 352.0' Slope= 0.0412 '/'
Inlet Invert= 262.00', Outlet Invert= 247.50'



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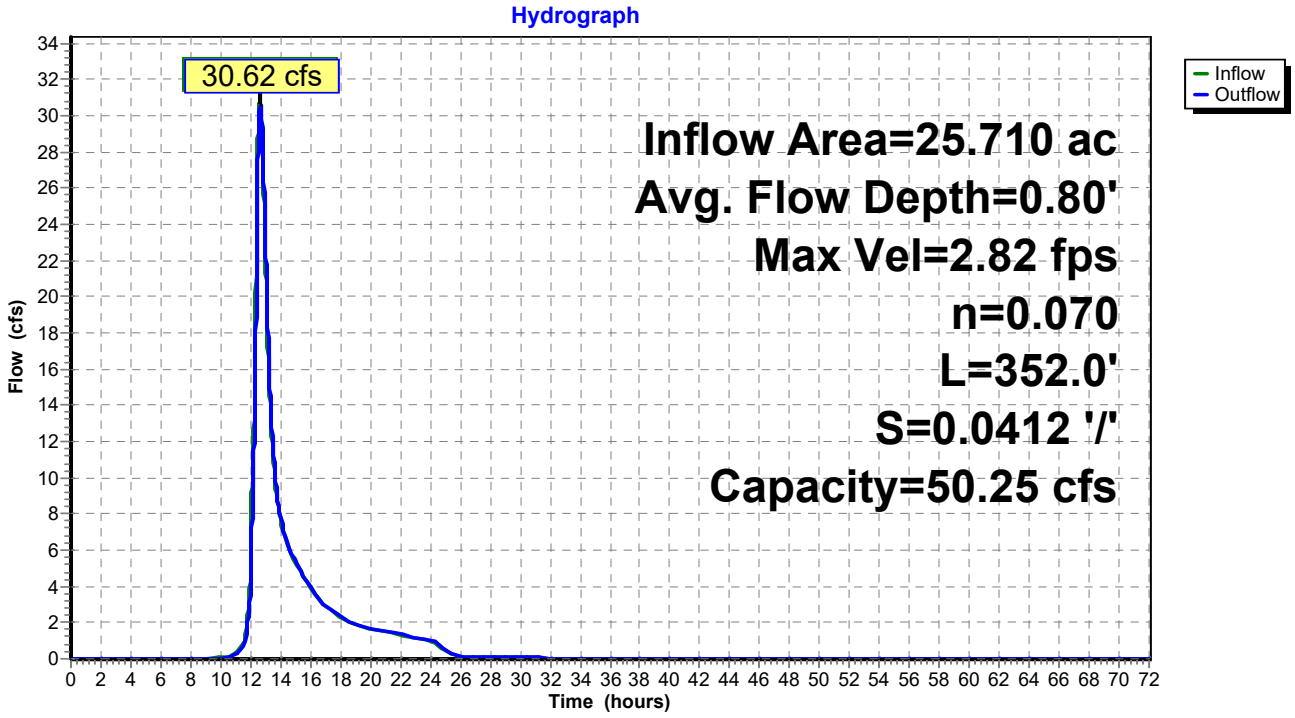
Reach 4R: Farm Brook

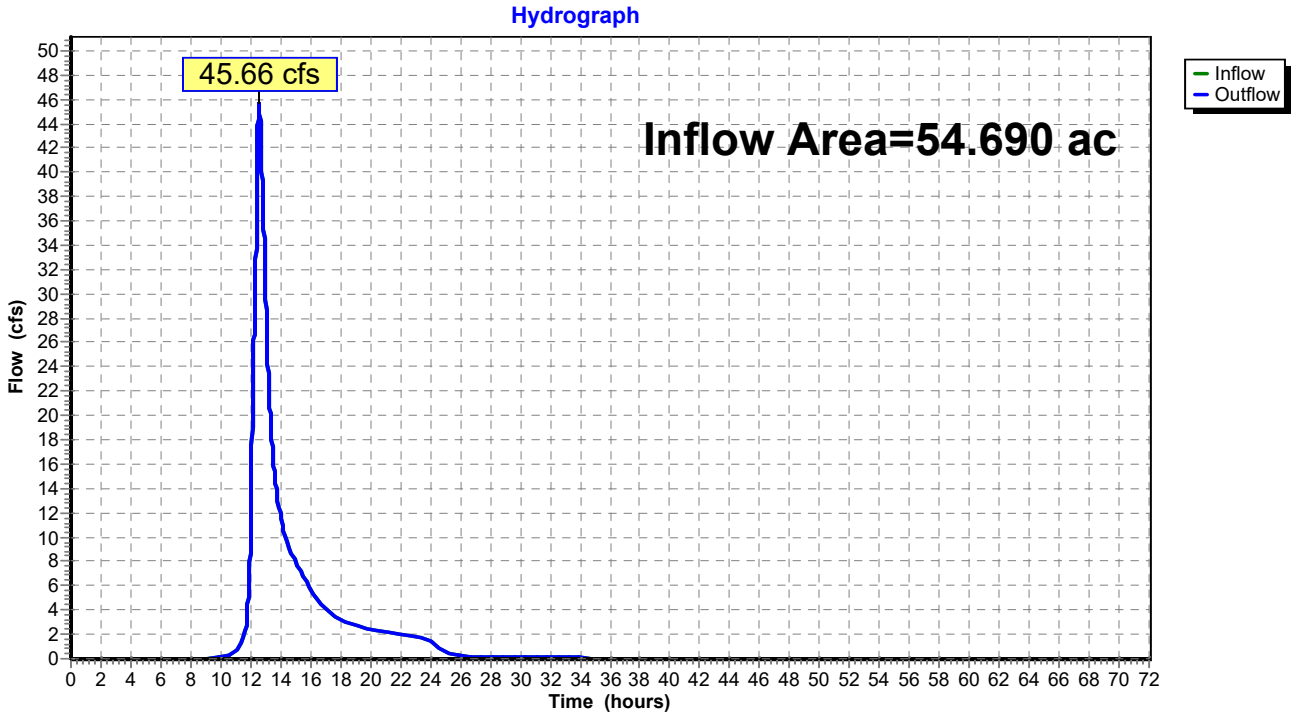


Summary for Reach OP-1: Observation Point 1

Inflow Area = 54.690 ac, 8.88% Impervious, Inflow Depth = 1.73" for 50-YR event
Inflow = 45.66 cfs @ 12.55 hrs, Volume= 7.901 af
Outflow = 45.66 cfs @ 12.55 hrs, Volume= 7.901 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Reach OP-1: Observation Point 1



Summary for Pond 1P: CB 100

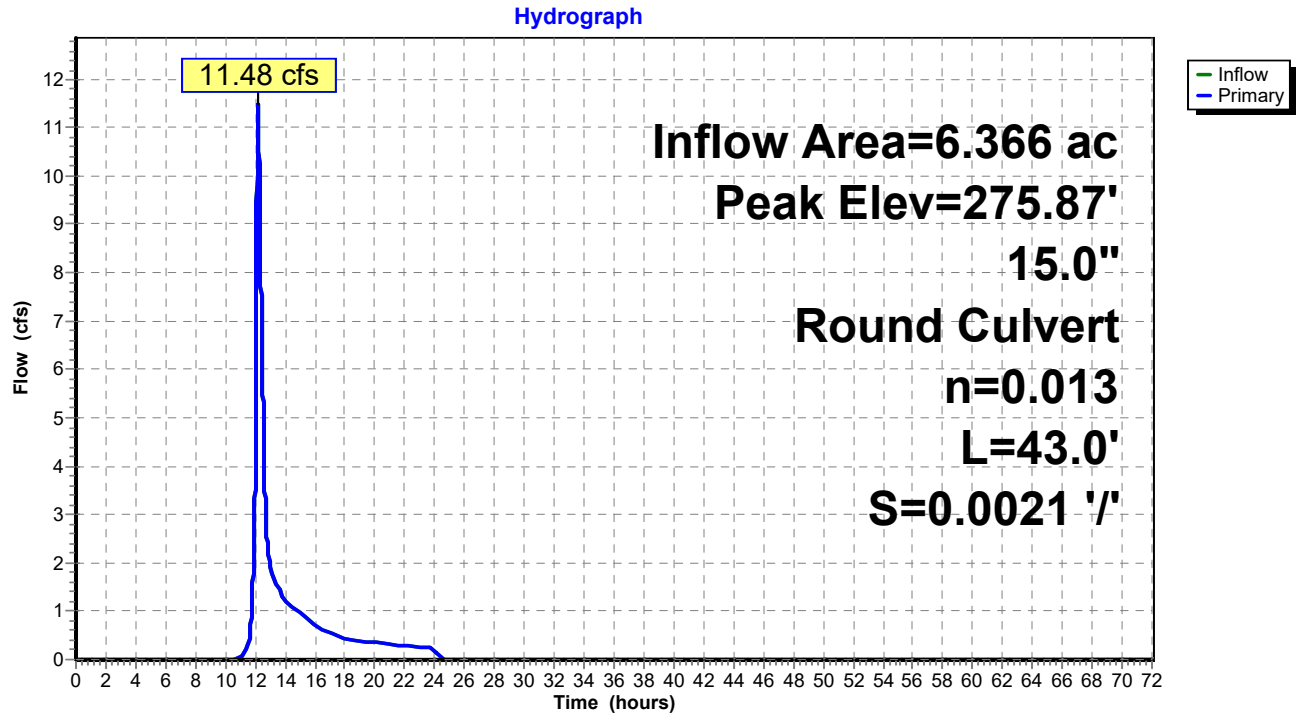
Inflow Area = 6.366 ac, 1.33% Impervious, Inflow Depth = 2.02" for 50-YR event
Inflow = 11.48 cfs @ 12.18 hrs, Volume= 1.071 af
Outflow = 11.48 cfs @ 12.18 hrs, Volume= 1.071 af, Atten= 0%, Lag= 0.0 min
Primary = 11.48 cfs @ 12.18 hrs, Volume= 1.071 af
Routed to Pond 4.3P : Stormwater Management Pond "D" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 275.87' @ 12.18 hrs
Flood Elev= 272.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	269.19'	**15.0" Round Culvert** L= 43.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 269.19' / 269.10' S= 0.0021 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=11.48 cfs @ 12.18 hrs HW=275.87' (Free Discharge)
1=Culvert (Inlet Controls 11.48 cfs @ 9.35 fps)

Pond 1P: CB 100



Summary for Pond 2P: CB 200

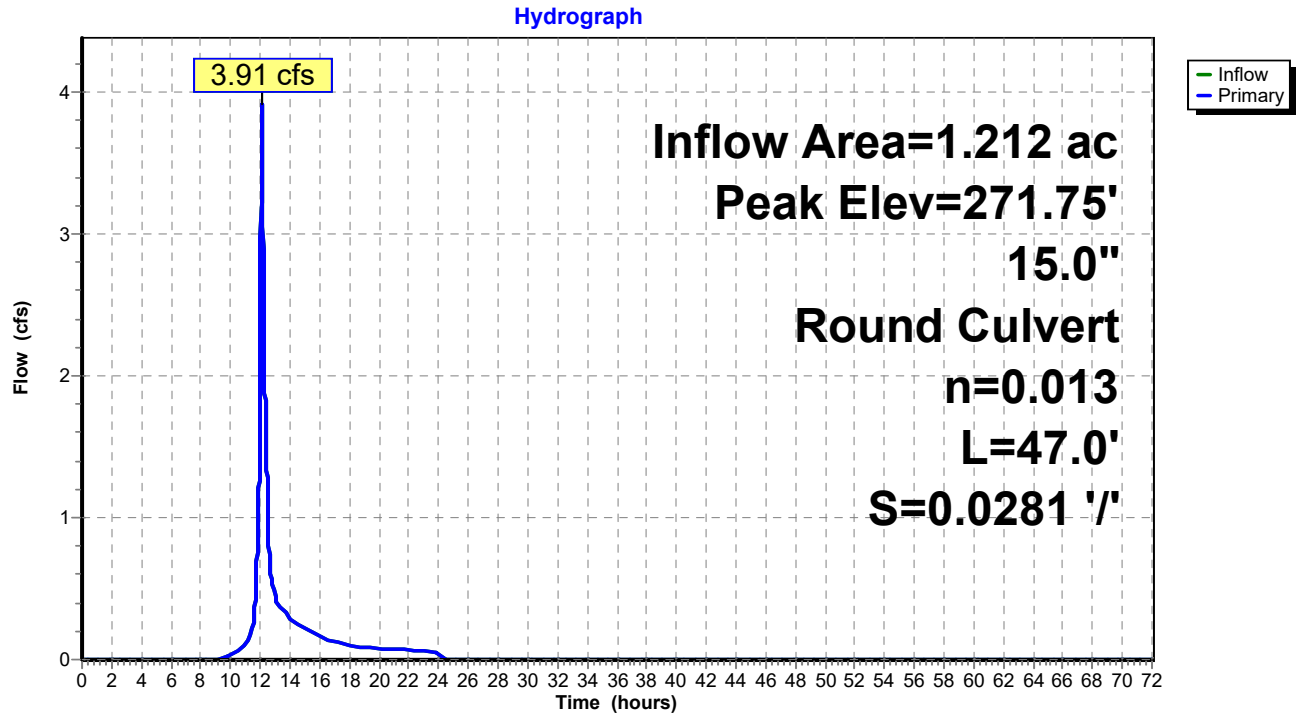
Inflow Area = 1.212 ac, 17.97% Impervious, Inflow Depth = 2.86" for 50-YR event
Inflow = 3.91 cfs @ 12.10 hrs, Volume= 0.288 af
Outflow = 3.91 cfs @ 12.10 hrs, Volume= 0.288 af, Atten= 0%, Lag= 0.0 min
Primary = 3.91 cfs @ 12.10 hrs, Volume= 0.288 af
Routed to Pond 4.3P : Stormwater Management Pond "D" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 271.75' @ 12.10 hrs
Flood Elev= 273.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	270.42'	**15.0" Round Culvert** L= 47.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 270.42' / 269.10' S= 0.0281 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.91 cfs @ 12.10 hrs HW=271.75' (Free Discharge)
1=Culvert (Inlet Controls 3.91 cfs @ 3.19 fps)

Pond 2P: CB 200



Summary for Pond 3.1AP: FOREBAY

Inflow Area = 3.381 ac, 31.55% Impervious, Inflow Depth = 3.66" for 50-YR event
Inflow = 14.13 cfs @ 12.09 hrs, Volume= 1.032 af
Outflow = 13.60 cfs @ 12.11 hrs, Volume= 1.032 af, Atten= 4%, Lag= 1.4 min
Discarded = 0.07 cfs @ 12.11 hrs, Volume= 0.185 af
Primary = 13.54 cfs @ 12.11 hrs, Volume= 0.848 af
Routed to Pond 3.1BP : Stormwater Management Pond "C" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 295.33' @ 12.11 hrs Surf.Area= 3,511 sf Storage= 6,840 cf
Flood Elev= 295.80' Surf.Area= 4,001 sf Storage= 8,601 cf

Plug-Flow detention time= 203.9 min calculated for 1.032 af (100% of inflow)
Center-of-Mass det. time= 203.9 min (1,025.1 - 821.2)

Volume	Invert	Avail.Storage	Storage Description
#1	291.80'	8,601 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

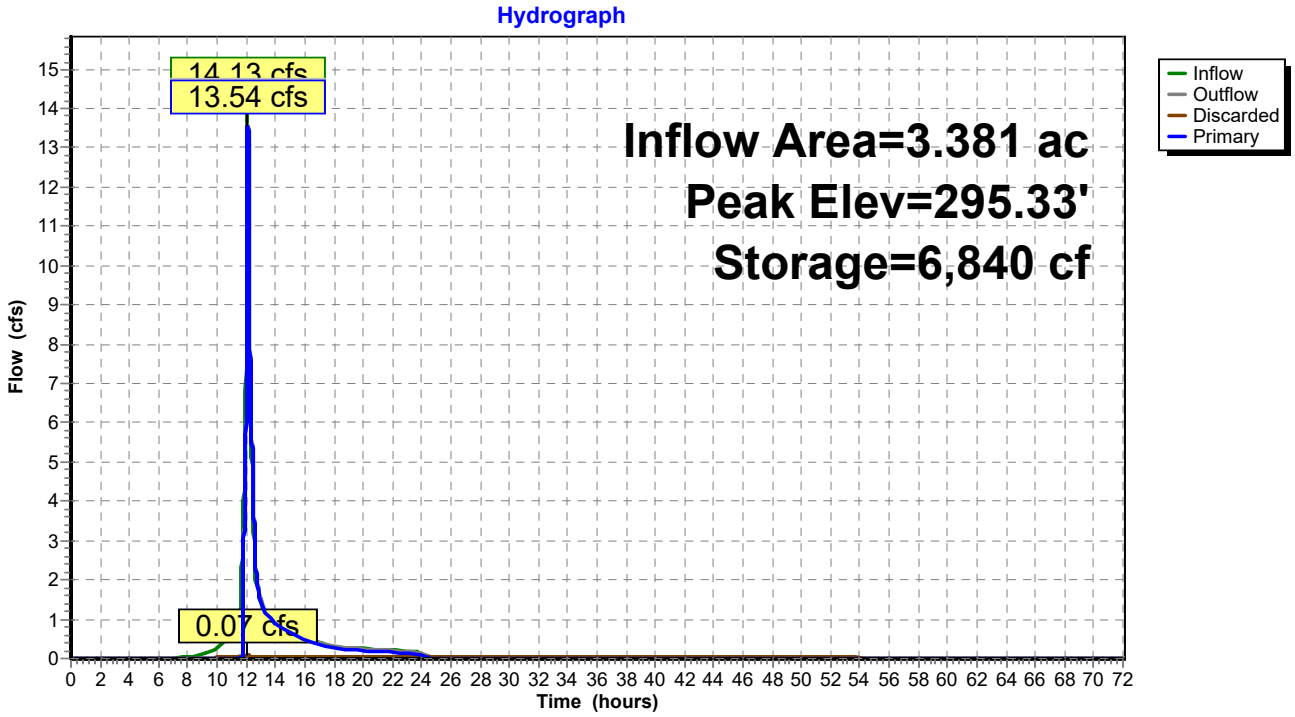
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
291.80	589	231.1	0	0	589
293.80	2,134	284.3	2,563	2,563	2,831
295.80	4,001	338.0	6,038	8,601	5,562

Device	Routing	Invert	Outlet Devices
#1	Discarded	291.80'	**0.600 in/hr Exfiltration over Wetted area**
#2	Primary	294.75'	**10.0' long + 3.0 '/' SideZ x 8.3' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.44 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.65 2.66 2.67 2.69 2.72

Discarded OutFlow Max=0.07 cfs @ 12.11 hrs HW=295.33' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.07 cfs)

Primary OutFlow Max=13.54 cfs @ 12.11 hrs HW=295.33' (Free Discharge)
↑—**2=Broad-Crested Rectangular Weir** (Weir Controls 13.54 cfs @ 1.99 fps)

Pond 3.1AP: FOREBAY



Summary for Pond 3.1BP: Stormwater Management Pond "C" Infiltration Basin

Inflow Area = 3.381 ac, 31.55% Impervious, Inflow Depth = 3.01" for 50-YR event
Inflow = 13.54 cfs @ 12.11 hrs, Volume= 0.848 af
Outflow = 4.39 cfs @ 12.46 hrs, Volume= 0.848 af, Atten= 68%, Lag= 21.0 min
Discarded = 0.15 cfs @ 12.46 hrs, Volume= 0.338 af
Primary = 2.82 cfs @ 12.46 hrs, Volume= 0.471 af
Routed to Pond 3P : HW 300
Secondary = 1.42 cfs @ 12.46 hrs, Volume= 0.039 af
Routed to Pond 3P : HW 300

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 295.65' @ 12.46 hrs Surf.Area= 6,929 sf Storage= 15,196 cf
Flood Elev= 295.80' Surf.Area= 7,199 sf Storage= 16,271 cf

Plug-Flow detention time= 361.6 min calculated for 0.848 af (100% of inflow)
Center-of-Mass det. time= 361.5 min (1,196.2 - 834.7)

Volume	Invert	Avail.Storage	Storage Description
#1	291.80'	16,271 cf	**Custom Stage Data (Irregular)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
291.80	1,216	215.2	0	0	1,216
292.80	2,596	473.9	1,863	1,863	15,406
293.80	4,058	500.7	3,300	5,163	17,541
295.80	7,199	545.0	11,108	16,271	21,373

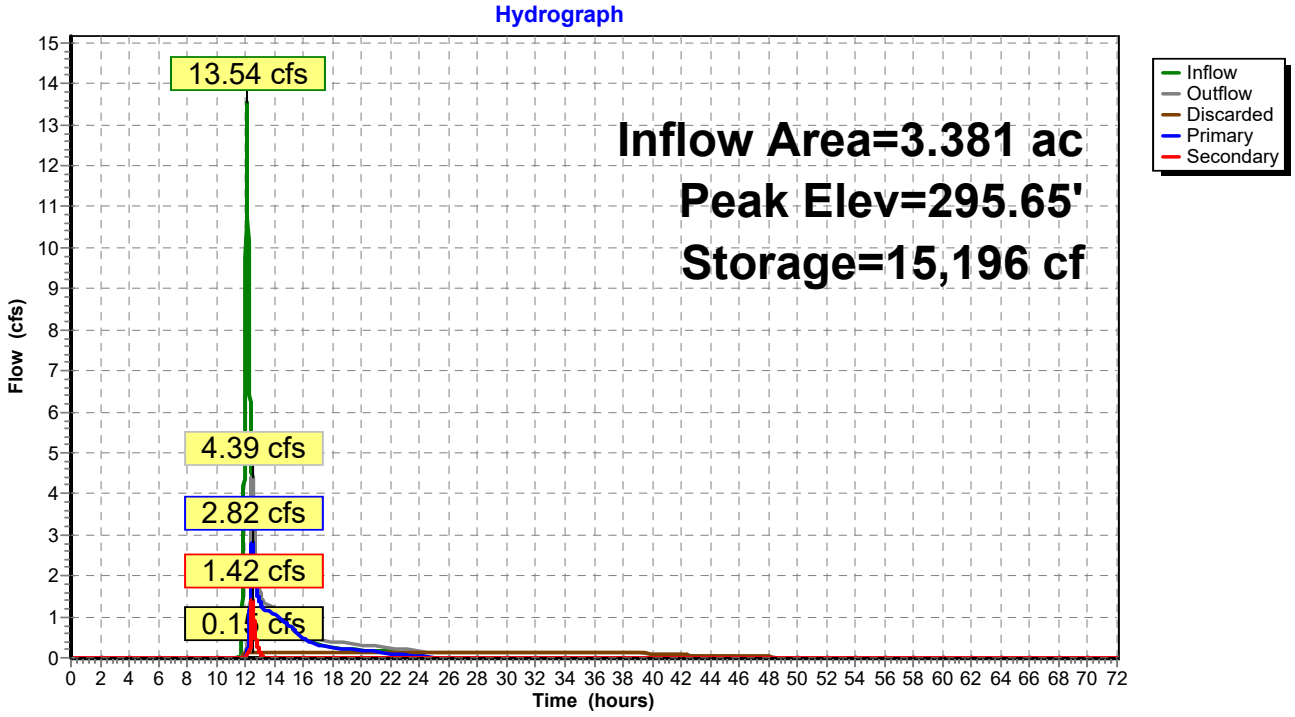
Device	Routing	Invert	Outlet Devices
#1	Discarded	291.80'	**0.300 in/hr Exfiltration over Wetted area**
#2	Primary	292.80'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 292.80' / 292.40' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Secondary	295.50'	**10.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78
#4	Device 2	295.50'	**24.0" x 24.0" Horiz. OCS - RIM** C= 0.600 Limited to weir flow at low heads
#5	Device 2	294.45'	**4.0" Vert. OCS - 10-YR Orifice** C= 0.600 Limited to weir flow at low heads
#6	Device 2	295.00'	**18.0" W x 2.0" H Vert. OCS - 25-YR Weir** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.15 cfs @ 12.46 hrs HW=295.65' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.15 cfs)

Primary OutFlow Max=2.82 cfs @ 12.46 hrs HW=295.65' (Free Discharge)
└**2=Culvert** (Passes 2.82 cfs of 6.95 cfs potential flow)
  └**4=OCS - RIM** (Weir Controls 1.49 cfs @ 1.26 fps)
  └**5=OCS - 10-YR Orifice** (Orifice Controls 0.43 cfs @ 4.89 fps)
  └**6=OCS - 25-YR Weir** (Orifice Controls 0.90 cfs @ 3.61 fps)

Secondary OutFlow Max=1.41 cfs @ 12.46 hrs HW=295.65' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Weir Controls 1.41 cfs @ 0.91 fps)

Pond 3.1BP: Stormwater Management Pond "C" Infiltration Basin



Summary for Pond 3.2P: Stormwater Management Pond "A" Infiltration Basin

Inflow Area = 5.929 ac, 10.98% Impervious, Inflow Depth = 2.64" for 50-YR event
Inflow = 16.14 cfs @ 12.10 hrs, Volume= 1.305 af
Outflow = 1.50 cfs @ 13.68 hrs, Volume= 1.305 af, Atten= 91%, Lag= 94.6 min
Discarded = 1.40 cfs @ 13.68 hrs, Volume= 1.265 af
Primary = 0.11 cfs @ 13.68 hrs, Volume= 0.040 af
Routed to Pond DMH-2 : DMH-2
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond 317P : FES 317

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 284.04' @ 13.68 hrs Surf.Area= 8,831 sf Storage= 25,523 cf
Flood Elev= 285.20' Surf.Area= 10,764 sf Storage= 36,854 cf

Plug-Flow detention time= 199.5 min calculated for 1.305 af (100% of inflow)
Center-of-Mass det. time= 199.5 min (1,045.3 - 845.8)

Volume	Invert	Avail.Storage	Storage Description
#1	278.70'	36,854 cf	**Basin (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
278.70	1,268	225.3	0	0	1,268
279.20	1,625	249.3	721	721	2,182
281.20	4,558	478.9	5,936	6,658	15,507
283.20	7,547	517.3	11,980	18,638	18,710
285.20	10,764	555.1	18,216	36,854	22,109

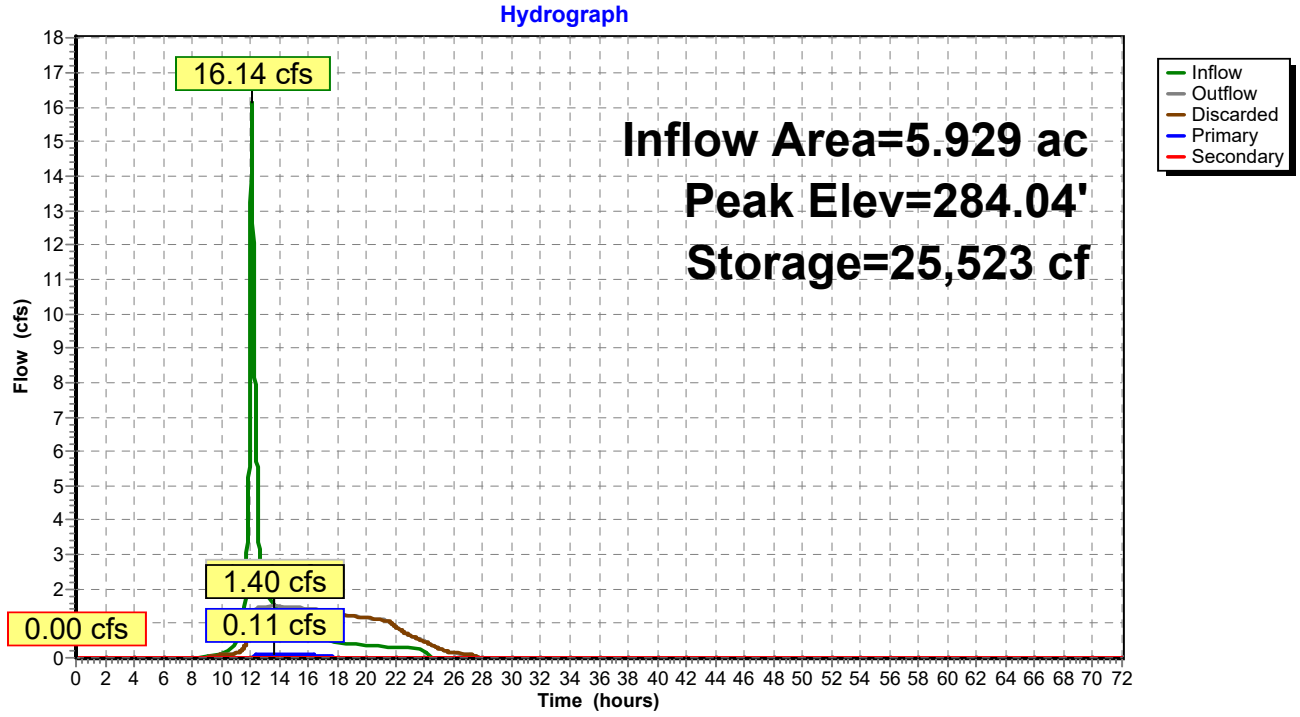
Device	Routing	Invert	Outlet Devices
#1	Discarded	278.70'	**3.000 in/hr Exfiltration over Wetted area**
#2	Primary	275.70'	**24.0" Round Culvert** L= 39.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 275.70' / 272.30' S= 0.0872 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#3	Secondary	284.90'	**10.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78
#4	Device 2	285.00'	**24.0" x 24.0" Horiz. OCS - RIM** C= 0.600 Limited to weir flow at low heads
#5	Device 2	282.90'	**2.0" Vert. OCS - 10-YR Orifice** C= 0.600 Limited to weir flow at low heads
#6	Device 2	284.50'	**4.0" W x 4.8" H Vert. OCS - 25-YR Weir** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=1.40 cfs @ 13.68 hrs HW=284.04' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 1.40 cfs)

Primary OutFlow Max=0.11 cfs @ 13.68 hrs HW=284.04' (Free Discharge)
└**2=Culvert** (Passes 0.11 cfs of 32.36 cfs potential flow)
  └**4=OCS - RIM** (Controls 0.00 cfs)
  └**5=OCS - 10-YR Orifice** (Orifice Controls 0.11 cfs @ 4.95 fps)
  └**6=OCS - 25-YR Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=278.70' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 3.2P: Stormwater Management Pond "A" Infiltration Basin



Summary for Pond 3.3P: Stormwater Management Pond "B" Bioretention Basin

Inflow Area = 1.203 ac, 25.66% Impervious, Inflow Depth = 3.20" for 50-YR event
Inflow = 4.43 cfs @ 12.09 hrs, Volume= 0.321 af
Outflow = 1.73 cfs @ 12.36 hrs, Volume= 0.321 af, Atten= 61%, Lag= 16.1 min
Primary = 1.73 cfs @ 12.36 hrs, Volume= 0.321 af
Routed to Pond 3P : HW 300

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 266.25' Surf.Area= 578 sf Storage= 289 cf
Peak Elev= 271.64' @ 12.36 hrs Surf.Area= 4,724 sf Storage= 4,661 cf (4,372 cf above start)
Flood Elev= 272.00' Surf.Area= 4,964 sf Storage= 5,547 cf (5,258 cf above start)

Plug-Flow detention time= 236.5 min calculated for 0.314 af (98% of inflow)
Center-of-Mass det. time= 214.1 min (1,043.5 - 829.4)

Volume	Invert	Avail.Storage	Storage Description
#1	271.00'	2,234 cf	**UPPER STORAGE (Irregular)** Listed below (Recalc)
#2	268.00'	997 cf	**SEDIMENT FOREBAY (Irregular)** Listed below (Recalc)
#3	268.00'	1,624 cf	**BASIN (Irregular)** Listed below (Recalc)
#4	265.00'	694 cf	**BIORETENTION AND ISR (Prismatic)** Listed below (Recalc) 1,734 cf Overall x 40.0% Voids
		5,547 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
271.00	1,926	200.7	0	0	1,926
272.00	2,556	219.6	2,234	2,234	2,592

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
268.00	49	53.7	0	0	49
269.00	212	74.5	121	121	271
270.00	430	95.3	315	436	564
271.00	703	116.0	561	997	928

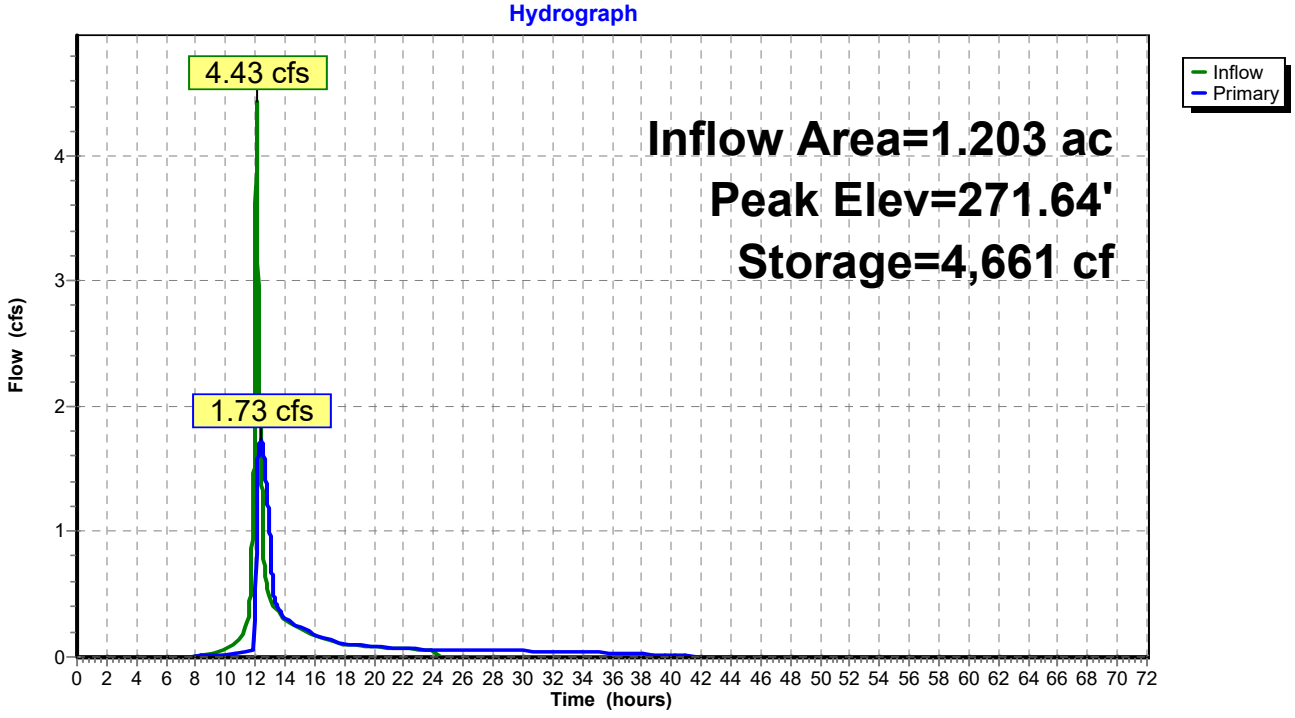
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
268.00	129	65.2	0	0	129
269.00	349	100.1	230	230	595
270.00	674	150.1	503	733	1,599
271.00	1,127	176.2	891	1,624	2,296

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
265.00	578	0	0
266.25	578	723	723
266.50	578	145	867
268.00	578	867	1,734

Device	Routing	Invert	Outlet Devices
#1	Primary	266.25'	**12.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 266.25' / 265.85' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	270.65'	**8.0" Horiz. Riser Inlet** C= 0.600 Limited to weir flow at low heads
#3	Device 4	265.33'	**6.0" Round Perforated PVC Subdrain** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 265.33' / 265.33' S= 0.0000 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#4	Device 1	266.25'	**1.0" Vert. Restrictive Orifice** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.73 cfs @ 12.36 hrs HW=271.64' (Free Discharge)
└─**1=Culvert** (Passes 1.73 cfs of 6.60 cfs potential flow)
  └─**2=Riser Inlet** (Orifice Controls 1.67 cfs @ 4.78 fps)
  └─**4=Restrictive Orifice** (Orifice Controls 0.06 cfs @ 11.13 fps)
    └─**3=Perforated PVC Subdrain** (Passes 0.06 cfs of 1.73 cfs potential flow)

Pond 3.3P: Stormwater Management Pond "B" Bioretention Basin



Summary for Pond 3.4P: Stormwater Management Pond "I" Detention Basin

Inflow Area = 0.367 ac, 18.97% Impervious, Inflow Depth = 3.05" for 50-YR event
Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.093 af
Outflow = 0.66 cfs @ 12.26 hrs, Volume= 0.063 af, Atten= 49%, Lag= 10.0 min
Primary = 0.66 cfs @ 12.26 hrs, Volume= 0.063 af
Routed to Pond 3P : HW 300

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 294.09' @ 12.26 hrs Surf.Area= 1,316 sf Storage= 1,447 cf
Flood Elev= 294.50' Surf.Area= 1,564 sf Storage= 2,037 cf

Plug-Flow detention time= 172.1 min calculated for 0.063 af (67% of inflow)
Center-of-Mass det. time= 68.7 min (907.2 - 838.5)

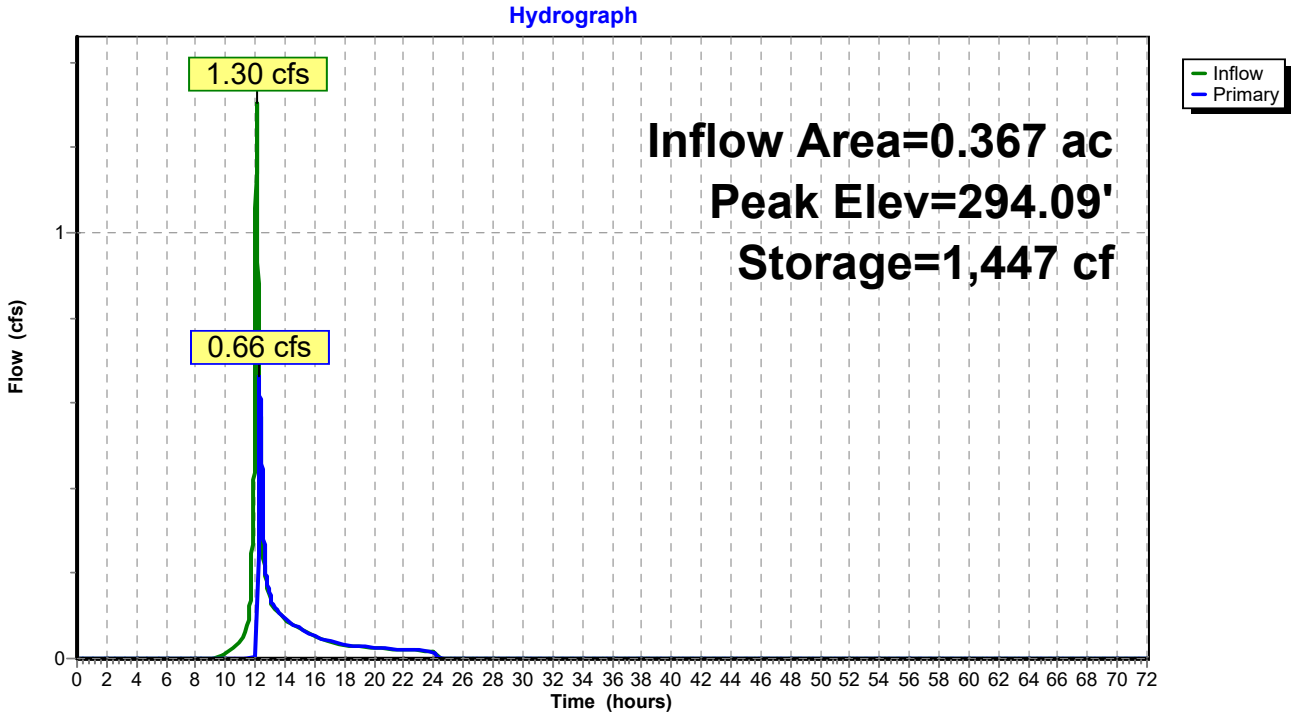
Volume	Invert	Avail.Storage	Storage Description
#1	292.50'	2,037 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
292.50	558	135.3	0	0	558
294.50	1,564	192.0	2,037	2,037	2,071

Device	Routing	Invert	Outlet Devices
#1	Primary	294.00'	**10.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78

Primary OutFlow Max=0.66 cfs @ 12.26 hrs HW=294.09' (Free Discharge)
1=Broad-Crested Rectangular Weir (Weir Controls 0.66 cfs @ 0.71 fps)

Pond 3.4P: Stormwater Management Pond "I" Detention Basin



Summary for Pond 3P: HW 300

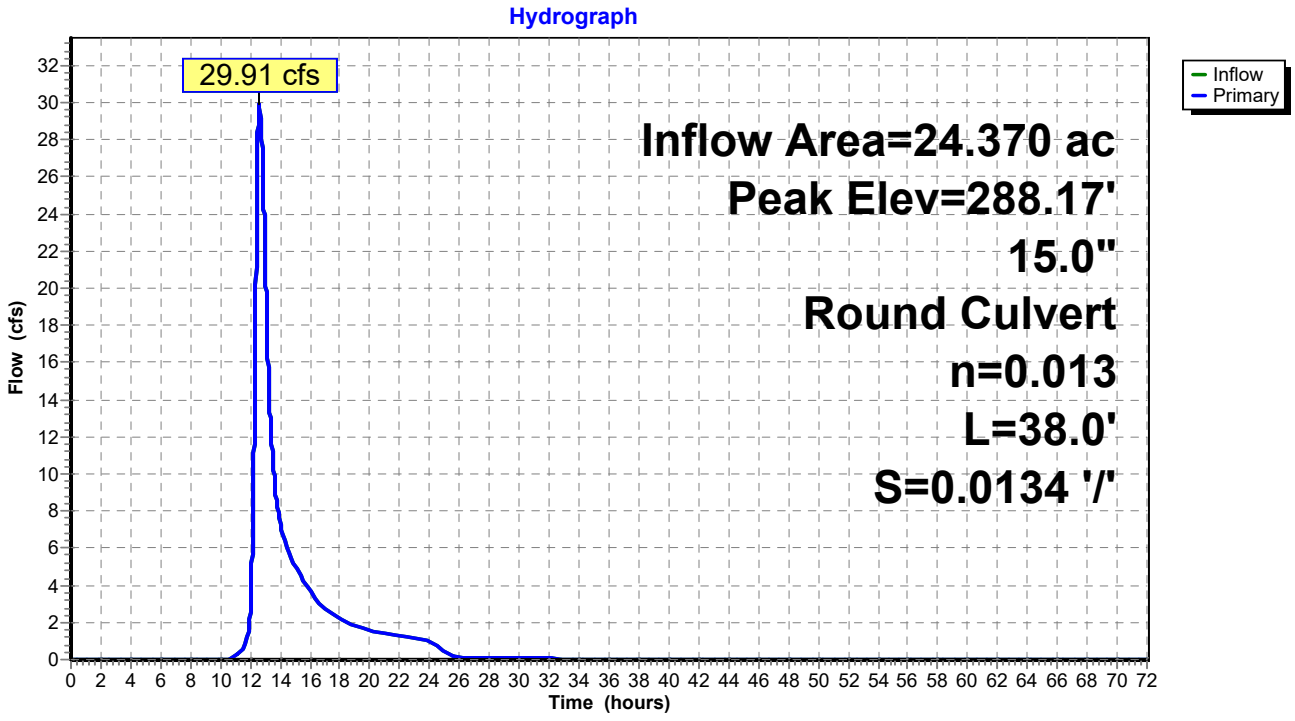
Inflow Area = 24.370 ac, 7.31% Impervious, Inflow Depth = 2.41" for 50-YR event
Inflow = 29.91 cfs @ 12.62 hrs, Volume= 4.898 af
Outflow = 29.91 cfs @ 12.62 hrs, Volume= 4.898 af, Atten= 0%, Lag= 0.0 min
Primary = 29.91 cfs @ 12.62 hrs, Volume= 4.898 af
Routed to Reach 4R : Farm Brook

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 288.17' @ 12.62 hrs
Flood Elev= 267.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	261.93'	**15.0" Round Culvert** L= 38.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 261.93' / 261.42' S= 0.0134 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=29.91 cfs @ 12.62 hrs HW=288.17' (Free Discharge)
1=Culvert (Inlet Controls 29.91 cfs @ 24.37 fps)

Pond 3P: HW 300



Summary for Pond 4.1P: Stormwater Management Pond "G" Bioretention Basin

Inflow Area = 0.271 ac, 26.03% Impervious, Inflow Depth = 3.35" for 50-YR event
Inflow = 1.06 cfs @ 12.09 hrs, Volume= 0.076 af
Outflow = 0.14 cfs @ 12.76 hrs, Volume= 0.076 af, Atten= 87%, Lag= 40.4 min
Primary = 0.14 cfs @ 12.76 hrs, Volume= 0.076 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 255.25' Surf.Area= 816 sf Storage= 408 cf
Peak Elev= 258.65' @ 12.76 hrs Surf.Area= 2,009 sf Storage= 1,990 cf (1,582 cf above start)
Flood Elev= 259.00' Surf.Area= 2,334 sf Storage= 2,458 cf (2,050 cf above start)

Plug-Flow detention time= 463.0 min calculated for 0.066 af (88% of inflow)
Center-of-Mass det. time= 343.7 min (1,175.4 - 831.7)

Volume	Invert	Avail.Storage	Storage Description
#1	257.00'	714 cf	**SEDIMENT FOREBAY (Irregular)** Listed below (Recalc)
#2	257.00'	765 cf	**BASIN (Irregular)** Listed below (Recalc)
#3	254.00'	979 cf	**BIORETENTION AND ISR (Prismatic)** Listed below (Recalc) 2,448 cf Overall x 40.0% Voids
		2,458 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	80	85.4	0	0	80
259.00	746	133.5	714	714	946

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
257.00	99	87.5	0	0	99
259.00	772	134.4	765	765	956

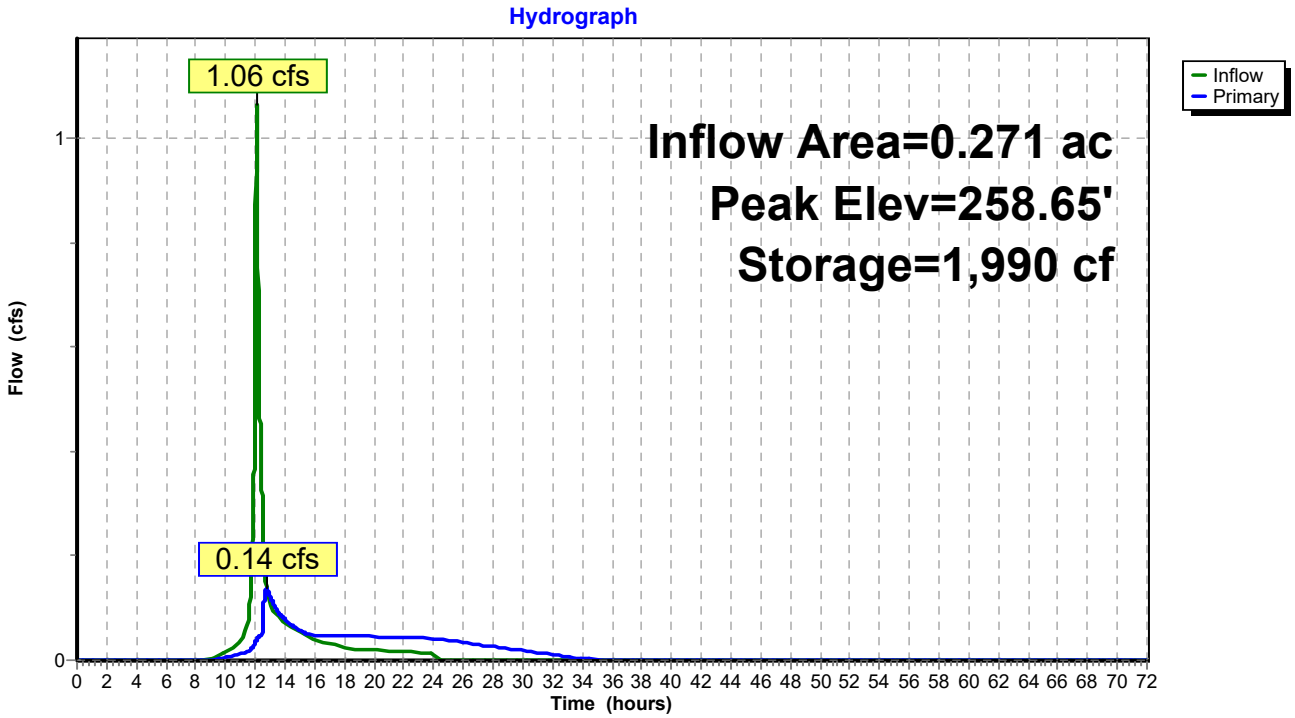
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
254.00	816	0	0
255.25	816	1,020	1,020
255.50	816	204	1,224
257.00	816	1,224	2,448

Device	Routing	Invert	Outlet Devices
#1	Primary	255.25'	**12.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 255.25' / 254.85' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	258.60'	**8.0" Horiz. Riser Inlet** C= 0.600 Limited to weir flow at low heads
#3	Device 4	254.33'	**6.0" Round Perforated PVC Subdrain** L= 14.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 254.33' / 254.33' S= 0.0000 '/' Cc= 0.900 n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#4	Device 1	255.25'	**1.0" Vert. Restrictive Orifice** C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=0.13 cfs @ 12.76 hrs HW=258.65' (Free Discharge)
└**1=Culvert** (Passes 0.13 cfs of 5.09 cfs potential flow)
└**2=Riser Inlet** (Weir Controls 0.09 cfs @ 0.76 fps)
└**4=Restrictive Orifice** (Orifice Controls 0.05 cfs @ 8.83 fps)
└**3=Perforated PVC Subdrain** (Passes 0.05 cfs of 1.38 cfs potential flow)

Pond 4.1P: Stormwater Management Pond "G" Bioretention Basin



Summary for Pond 4.2AP: Forebay

Inflow Area = 3.691 ac, 23.19% Impervious, Inflow Depth = 2.17" for 50-YR event
Inflow = 6.95 cfs @ 12.12 hrs, Volume= 0.667 af
Outflow = 6.70 cfs @ 12.16 hrs, Volume= 0.667 af, Atten= 4%, Lag= 2.2 min
Discarded = 0.27 cfs @ 12.16 hrs, Volume= 0.312 af
Primary = 6.43 cfs @ 12.16 hrs, Volume= 0.355 af
Routed to Pond 4.2BP : Stormwater Management Pond "E" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 260.08' @ 12.16 hrs Surf.Area= 1,945 sf Storage= 4,040 cf
Flood Elev= 260.60' Surf.Area= 2,234 sf Storage= 5,127 cf

Plug-Flow detention time= 93.2 min calculated for 0.667 af (100% of inflow)
Center-of-Mass det. time= 93.2 min (953.0 - 859.8)

Volume	Invert	Avail.Storage	Storage Description
#1	256.60'	5,127 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

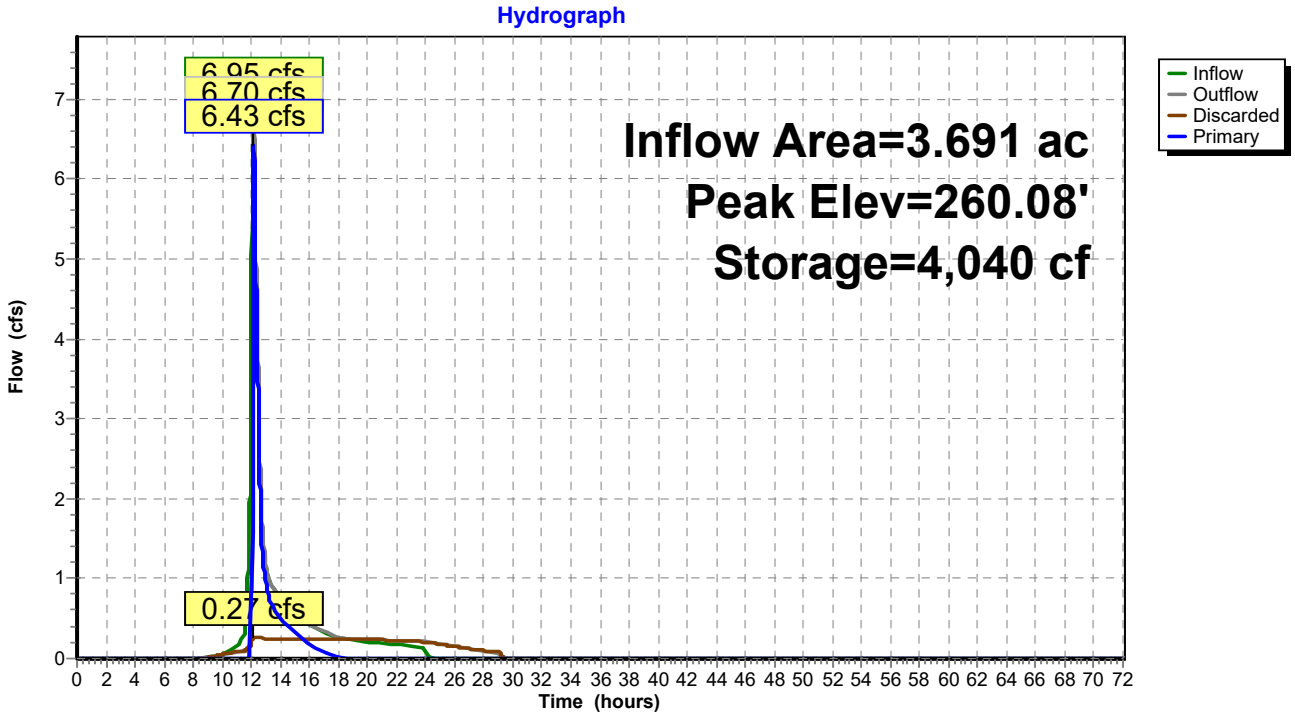
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.60	527	93.5	0	0	527
258.60	1,232	141.9	1,710	1,710	1,464
260.60	2,234	192.3	3,417	5,127	2,845

Device	Routing	Invert	Outlet Devices
#1	Primary	259.70'	**10.0' long + 3.0 '/' SideZ x 7.4' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.41 2.53 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.67 2.69 2.72 2.76
#2	Discarded	256.60'	**6.000 in/hr Exfiltration over Surface area**

Discarded OutFlow Max=0.27 cfs @ 12.16 hrs HW=260.08' (Free Discharge)
↑—**2=Exfiltration** (Exfiltration Controls 0.27 cfs)

Primary OutFlow Max=6.42 cfs @ 12.16 hrs HW=260.08' (Free Discharge)
↑—**1=Broad-Crested Rectangular Weir** (Weir Controls 6.42 cfs @ 1.52 fps)

Pond 4.2AP: Forebay



Summary for Pond 4.2BP: Stormwater Management Pond "E" Infiltration Basin

Inflow Area = 3.691 ac, 23.19% Impervious, Inflow Depth = 1.15" for 50-YR event
Inflow = 6.43 cfs @ 12.16 hrs, Volume= 0.355 af
Outflow = 1.63 cfs @ 12.68 hrs, Volume= 0.355 af, Atten= 75%, Lag= 31.1 min
Discarded = 0.29 cfs @ 12.68 hrs, Volume= 0.197 af
Primary = 1.35 cfs @ 12.68 hrs, Volume= 0.158 af
Routed to Reach OP-1 : Observation Point 1
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 258.96' @ 12.68 hrs Surf.Area= 4,126 sf Storage= 6,904 cf
Flood Elev= 260.60' Surf.Area= 5,953 sf Storage= 15,147 cf

Plug-Flow detention time= 141.9 min calculated for 0.355 af (100% of inflow)
Center-of-Mass det. time= 141.9 min (929.0 - 787.1)

Volume	Invert	Avail.Storage	Storage Description
#1	256.60'	15,147 cf	**Custom Stage Data (Irregular)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
256.60	1,841	301.9	0	0	1,841
258.60	3,775	342.7	5,501	5,501	4,031
260.60	5,953	383.5	9,646	15,147	6,498

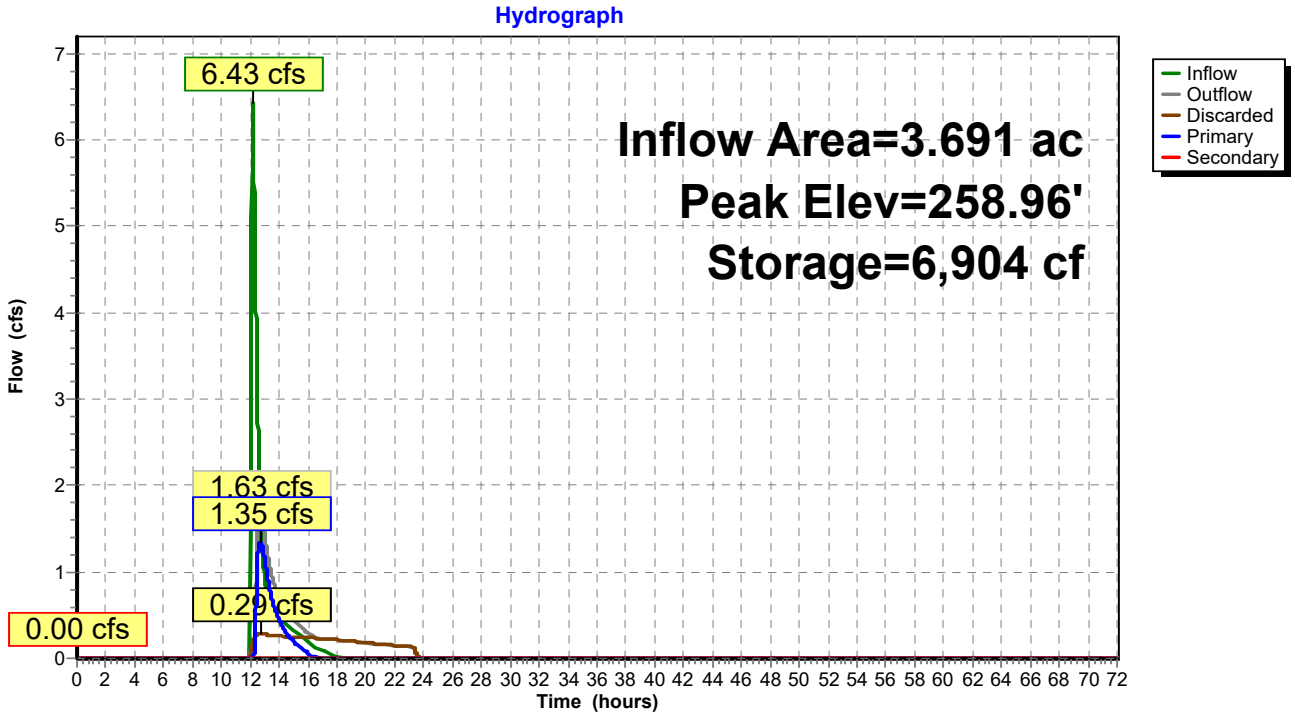
Device	Routing	Invert	Outlet Devices
#1	Discarded	256.60'	**3.000 in/hr Exfiltration over Surface area**
#2	Primary	256.60'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 256.60' / 256.20' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Secondary	260.40'	**10.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78
#4	Device 2	260.30'	**24.0" x 24.0" Horiz. OCS - RIM** C= 0.600 Limited to weir flow at low heads
#5	Device 2	258.20'	**8.0" W x 8.0" H Vert. OCS - 10-YR Orifice** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.29 cfs @ 12.68 hrs HW=258.96' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.29 cfs)

Primary OutFlow Max=1.35 cfs @ 12.68 hrs HW=258.96' (Free Discharge)
└**2=Culvert** (Passes 1.35 cfs of 6.14 cfs potential flow)
  └**4=OCS - RIM** (Controls 0.00 cfs)
  └**5=OCS - 10-YR Orifice** (Orifice Controls 1.35 cfs @ 3.03 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=256.60' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 4.2BP: Stormwater Management Pond "E" Infiltration Basin



Summary for Pond 4.3P: Stormwater Management Pond "D" Infiltration Basin

Inflow Area = 8.115 ac, 4.79% Impervious, Inflow Depth = 2.12" for 50-YR event
Inflow = 15.26 cfs @ 12.16 hrs, Volume= 1.431 af
Outflow = 5.45 cfs @ 12.57 hrs, Volume= 1.431 af, Atten= 64%, Lag= 25.0 min
Discarded = 0.79 cfs @ 12.57 hrs, Volume= 1.003 af
Primary = 2.80 cfs @ 12.57 hrs, Volume= 0.293 af
Routed to Reach OP-1 : Observation Point 1
Secondary = 1.86 cfs @ 12.57 hrs, Volume= 0.135 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 269.82' @ 12.57 hrs Surf.Area= 11,393 sf Storage= 22,107 cf
Flood Elev= 270.10' Surf.Area= 11,766 sf Storage= 25,360 cf

Plug-Flow detention time= 238.8 min calculated for 1.430 af (100% of inflow)
Center-of-Mass det. time= 238.8 min (1,104.6 - 865.8)

Volume	Invert	Avail.Storage	Storage Description
#1	266.60'	25,360 cf	**Custom Stage Data (Irregular)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
266.60	3,778	272.5	0	0	3,778
267.10	4,197	285.4	1,993	1,993	4,367
268.10	5,093	312.2	4,638	6,631	5,676
269.10	10,466	423.8	7,620	14,251	12,223
270.10	11,766	442.6	11,110	25,360	13,590

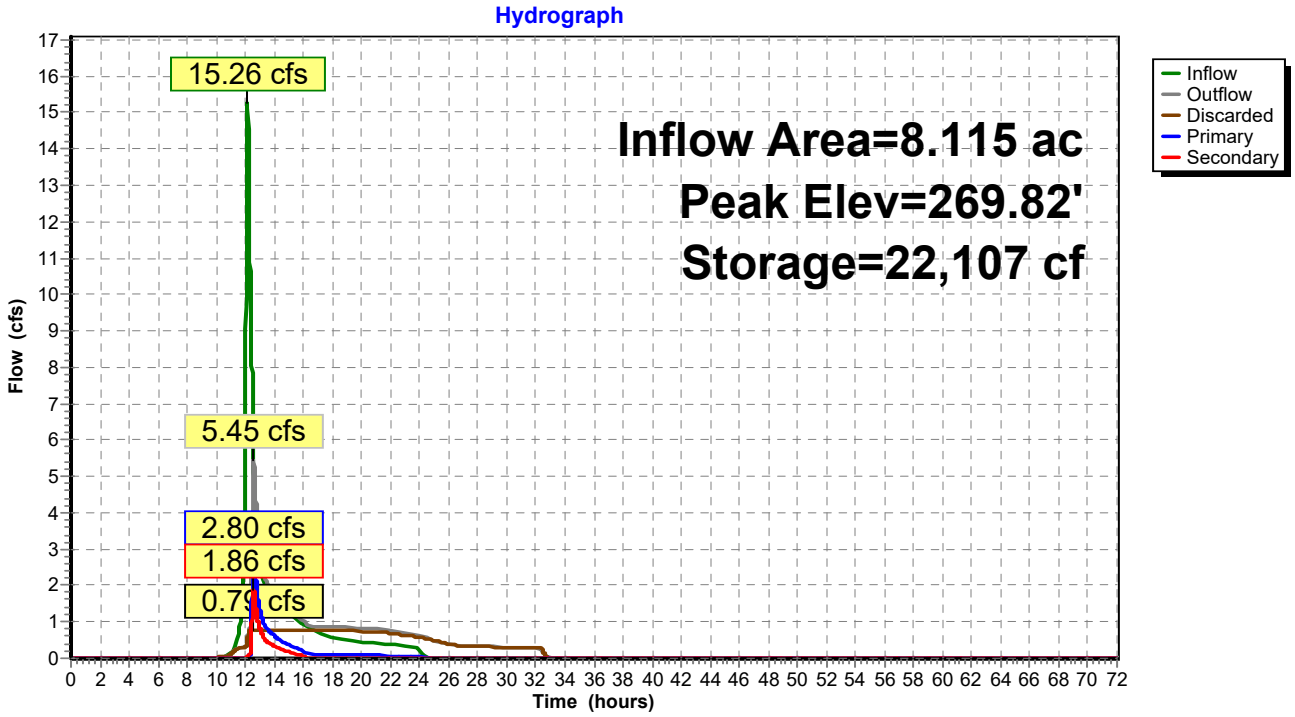
Device	Routing	Invert	Outlet Devices
#1	Discarded	266.60'	**3.000 in/hr Exfiltration over Surface area**
#2	Primary	266.60'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 266.60' / 266.20' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Secondary	269.60'	**7.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78
#4	Device 2	269.60'	**24.0" x 24.0" Horiz. OCS - RIM** C= 0.600 Limited to weir flow at low heads
#5	Device 2	268.50'	**2.0" Vert. OCS - 10-YR Orifice** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.79 cfs @ 12.57 hrs HW=269.82' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.79 cfs)

Primary OutFlow Max=2.80 cfs @ 12.57 hrs HW=269.82' (Free Discharge)
└**2=Culvert** (Passes 2.80 cfs of 7.51 cfs potential flow)
  └**4=OCS - RIM** (Weir Controls 2.68 cfs @ 1.53 fps)
  └**5=OCS - 10-YR Orifice** (Orifice Controls 0.12 cfs @ 5.35 fps)

Secondary OutFlow Max=1.86 cfs @ 12.57 hrs HW=269.82' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Weir Controls 1.86 cfs @ 1.11 fps)

Pond 4.3P: Stormwater Management Pond "D" Infiltration Basin



Summary for Pond 4.4P: Stormwater Management Pond "F" Gravel Wetland

Inflow Area = 4.794 ac, 11.90% Impervious, Inflow Depth = 1.41" for 50-YR event
Inflow = 4.27 cfs @ 12.36 hrs, Volume= 0.564 af
Outflow = 4.18 cfs @ 12.41 hrs, Volume= 0.564 af, Atten= 2%, Lag= 3.1 min
Primary = 2.31 cfs @ 12.41 hrs, Volume= 0.430 af
Routed to Reach OP-1 : Observation Point 1
Secondary = 1.86 cfs @ 12.41 hrs, Volume= 0.134 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 245.18' @ 12.41 hrs Surf.Area= 2,940 sf Storage= 2,917 cf
Flood Elev= 245.50' Surf.Area= 3,533 sf Storage= 3,961 cf

Plug-Flow detention time= 119.5 min calculated for 0.564 af (100% of inflow)
Center-of-Mass det. time= 119.3 min (1,020.3 - 900.9)

Volume	Invert	Avail.Storage	Storage Description
#1	243.50'	1,601 cf	**Sediment Forebay (Irregular)**Listed below (Recalc)
#2	242.83'	1,105 cf	**Treatment Bay #1 (Irregular)**Listed below (Recalc)
#3	242.83'	1,255 cf	**Treatment Bay #2 (Irregular)**Listed below (Recalc)
		3,961 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
243.50	242	190.3	0	0	242
245.50	1,548	239.8	1,601	1,601	1,990

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
242.83	211	100.8	0.0	0	0	211
243.50	211	100.8	10.0	14	14	279
245.50	972	155.8	100.0	1,091	1,105	1,431

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
242.83	294	97.8	0.0	0	0	294
243.50	294	97.8	10.0	20	20	360
245.50	1,013	141.4	100.0	1,235	1,255	1,223

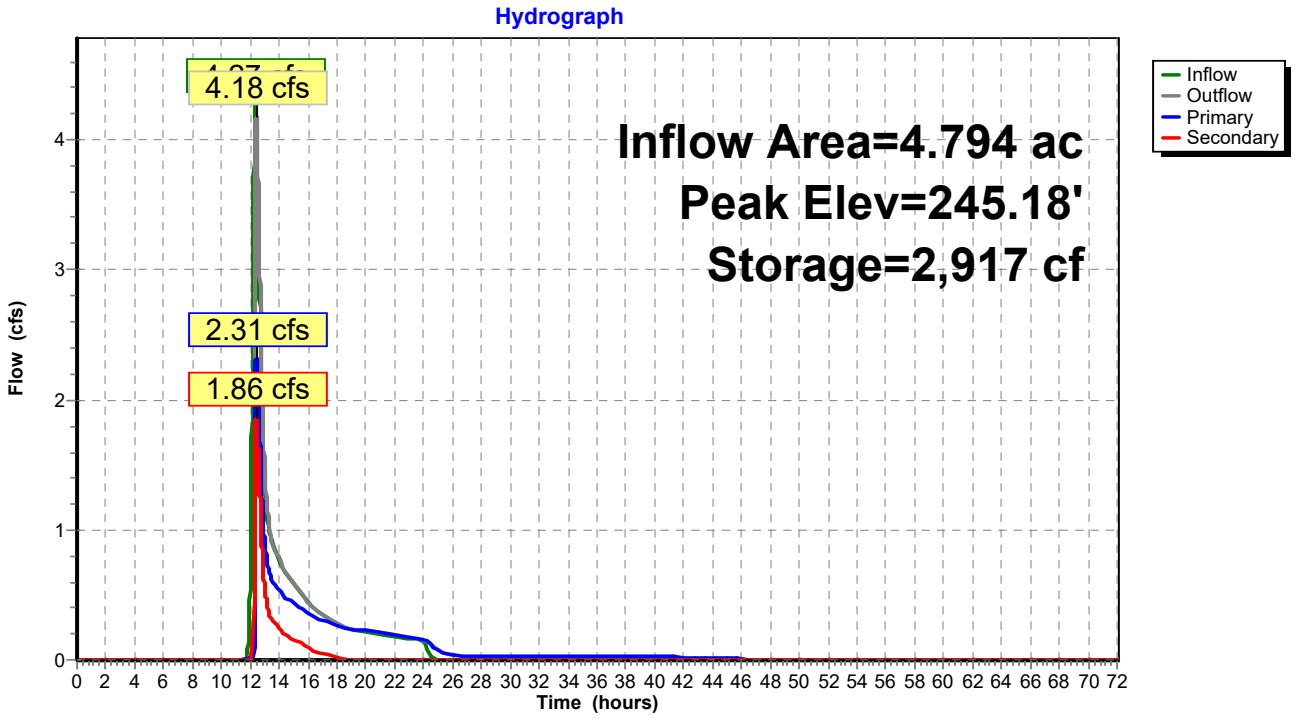
Device	Routing	Invert	Outlet Devices
#1	Primary	243.17'	**15.0" Round OCS - Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 243.17' / 242.77' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#2	Device 1	243.17'	**1.0" Vert. OCS - 1" Restrictive Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	245.00'	**24.0" x 24.0" Horiz. OCS - Rim** C= 0.600 Limited to weir flow at low heads
#4	Device 1	244.75'	**6.0" W x 3.0" H Vert. OCS - Weir** C= 0.600 Limited to weir flow at low heads

#5 Secondary 245.00' **10.0' long + 3.0 '/' SideZ x 7.0' breadth Broad-Crested Rectangular Weir**
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50
Coef. (English) 2.40 2.52 2.70 2.68 2.68 2.67 2.66 2.65 2.65 2.65 2.66 2.65 2.66 2.68 2.70 2.73 2.78

Primary OutFlow Max=2.31 cfs @ 12.41 hrs HW=245.18' (Free Discharge)
└─**1=OCS - Culvert** (Passes 2.31 cfs of 5.48 cfs potential flow)
  ├─**2=OCS - 1" Restrictive Orifice** (Orifice Controls 0.04 cfs @ 6.75 fps)
  ├─**3=OCS - Rim** (Weir Controls 1.95 cfs @ 1.38 fps)
  └─**4=OCS - Weir** (Orifice Controls 0.33 cfs @ 2.63 fps)

Secondary OutFlow Max=1.86 cfs @ 12.41 hrs HW=245.18' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Weir Controls 1.86 cfs @ 1.00 fps)

Pond 4.4P: Stormwater Management Pond "F" Gravel Wetland



Summary for Pond 4.5P: Stormwater Management Pond "H" Bioretention Basin

Inflow Area = 0.288 ac, 33.35% Impervious, Inflow Depth = 3.76" for 50-YR event
Inflow = 1.27 cfs @ 12.09 hrs, Volume= 0.090 af
Outflow = 0.92 cfs @ 12.16 hrs, Volume= 0.090 af, Atten= 27%, Lag= 4.5 min
Primary = 0.92 cfs @ 12.16 hrs, Volume= 0.090 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 253.25' Surf.Area= 430 sf Storage= 387 cf
Peak Elev= 255.92' @ 12.16 hrs Surf.Area= 1,436 sf Storage= 1,411 cf (1,024 cf above start)
Flood Elev= 256.00' Surf.Area= 1,486 sf Storage= 1,477 cf (1,090 cf above start)

Plug-Flow detention time= 224.6 min calculated for 0.081 af (90% of inflow)
Center-of-Mass det. time= 145.7 min (968.2 - 822.6)

Volume	Invert	Avail.Storage	Storage Description
#1	254.00'	421 cf	**SEDIMENT FOREBAY (Irregular)** Listed below
#2	254.00'	540 cf	**BASIN (Irregular)** Listed below (Recalc)
#3	251.00'	516 cf	**BIORETENTION AND ISR (Prismatic)** Listed below (Recalc) 1,290 cf Overall x 40.0% Voids
		1,477 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
254.00	2	14.9	0	0	2
255.00	200	91.1	74	74	647
256.00	519	118.8	347	421	1,121

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
254.00	81	39.7	0	0	81
255.00	248	73.4	157	157	390
256.00	537	120.5	383	540	1,123

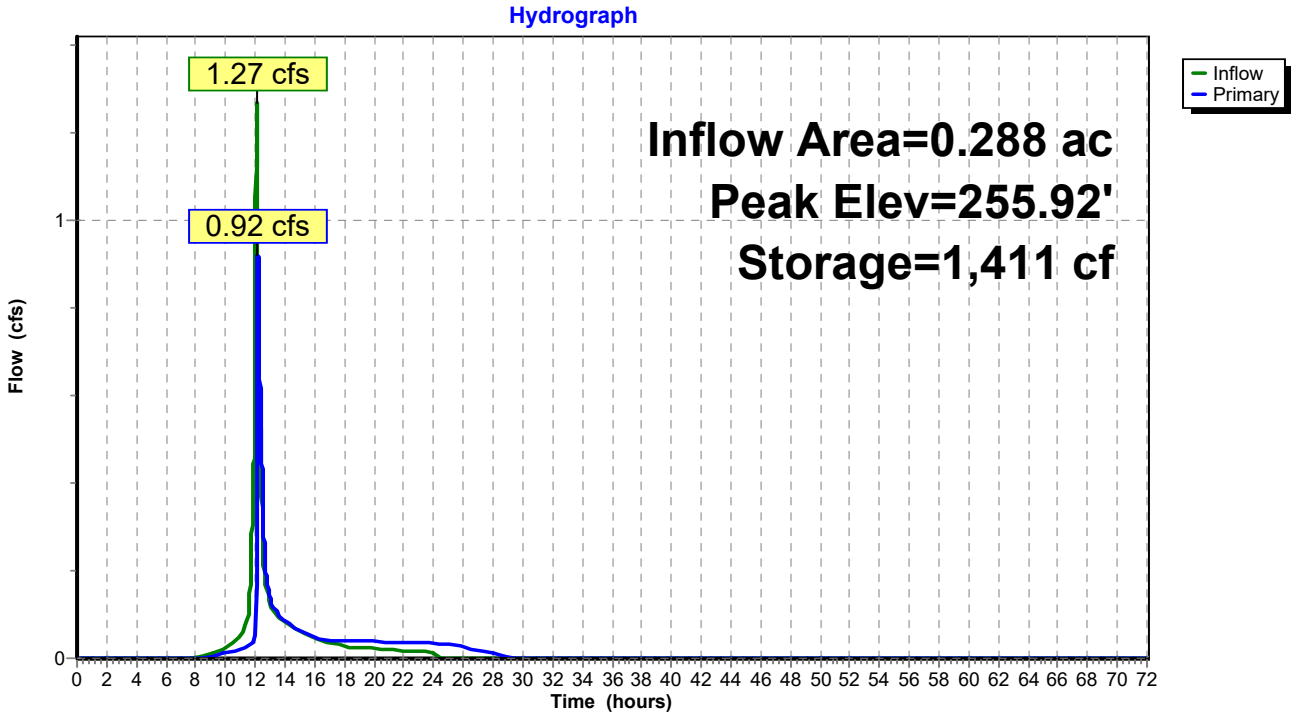
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
251.00	430	0	0
252.25	430	538	538
252.50	430	108	645
254.00	430	645	1,290

Device	Routing	Invert	Outlet Devices
#1	Primary	253.25'	**12.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 253.25' / 252.85' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	255.65'	**8.0" Horiz. Riser Inlet** C= 0.600 Limited to weir flow at low heads
#3	Device 4	252.33'	**6.0" Round Perforated PVC Subdrain** L= 10.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 252.33' / 252.33' S= 0.0000 '/' Cc= 0.900

			n= 0.010 PVC, smooth interior, Flow Area= 0.20 sf
#4	Device 1	253.25'	**1.0" Vert. Restrictive Orifice** C= 0.600
			Limited to weir flow at low heads

Primary OutFlow Max=0.92 cfs @ 12.16 hrs HW=255.92' (Free Discharge)
- **1=Culvert** (Passes 0.92 cfs of 4.40 cfs potential flow)
- **2=Riser Inlet** (Orifice Controls 0.88 cfs @ 2.52 fps)
- **4=Restrictive Orifice** (Orifice Controls 0.04 cfs @ 7.81 fps)
  - **3=Perforated PVC Subdrain** (Passes 0.04 cfs of 1.22 cfs potential flow)

Pond 4.5P: Stormwater Management Pond "H" Bioretention Basin



Summary for Pond 201P: FES 201

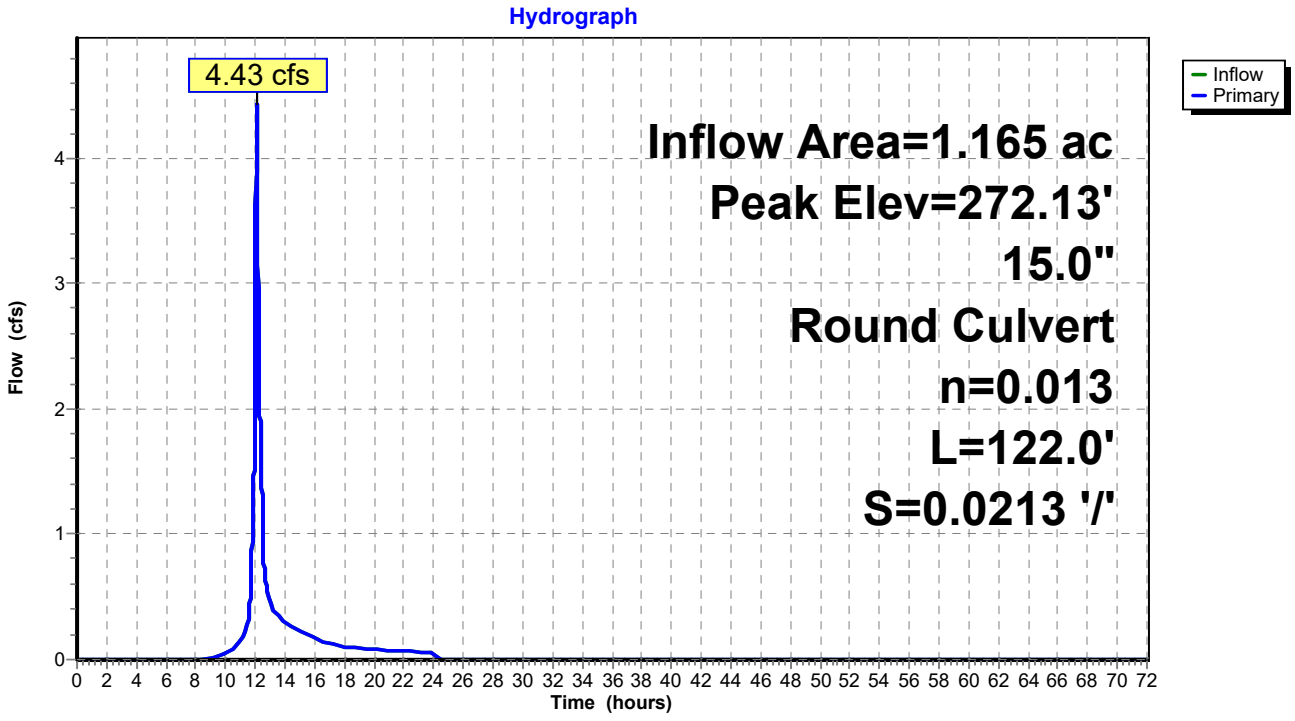
Inflow Area = 1.165 ac, 27.53% Impervious, Inflow Depth = 3.25" for 50-YR event
Inflow = 4.43 cfs @ 12.09 hrs, Volume= 0.315 af
Outflow = 4.43 cfs @ 12.09 hrs, Volume= 0.315 af, Atten= 0%, Lag= 0.0 min
Primary = 4.43 cfs @ 12.09 hrs, Volume= 0.315 af
Routed to Pond 4.2AP : Forebay

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 272.13' @ 12.09 hrs
Flood Elev= 274.88'

Device	Routing	Invert	Outlet Devices
#1	Primary	270.60'	**15.0" Round Culvert** L= 122.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 270.60' / 268.00' S= 0.0213 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.43 cfs @ 12.09 hrs HW=272.13' (Free Discharge)
1=Culvert (Inlet Controls 4.43 cfs @ 3.61 fps)

Pond 201P: FES 201



Summary for Pond 301AP: FES 301A

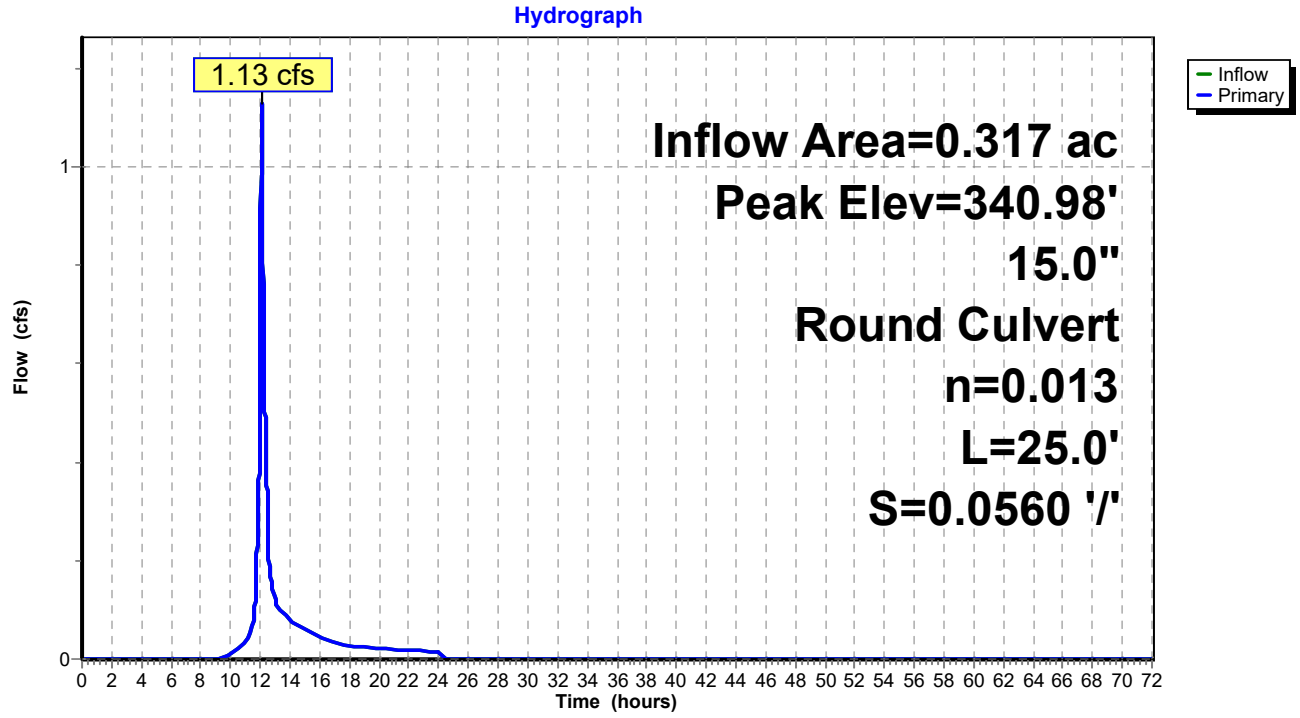
Inflow Area = 0.317 ac, 13.61% Impervious, Inflow Depth = 3.05" for 50-YR event
Inflow = 1.13 cfs @ 12.09 hrs, Volume= 0.081 af
Outflow = 1.13 cfs @ 12.09 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 1.13 cfs @ 12.09 hrs, Volume= 0.081 af
Routed to Pond 301BP : CB 301B

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 340.98' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	340.40'	**15.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 340.40' / 339.00' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.13 cfs @ 12.09 hrs HW=340.98' (Free Discharge)
1=Culvert (Inlet Controls 1.13 cfs @ 2.04 fps)

Pond 301AP: FES 301A



Summary for Pond 301BP: CB 301B

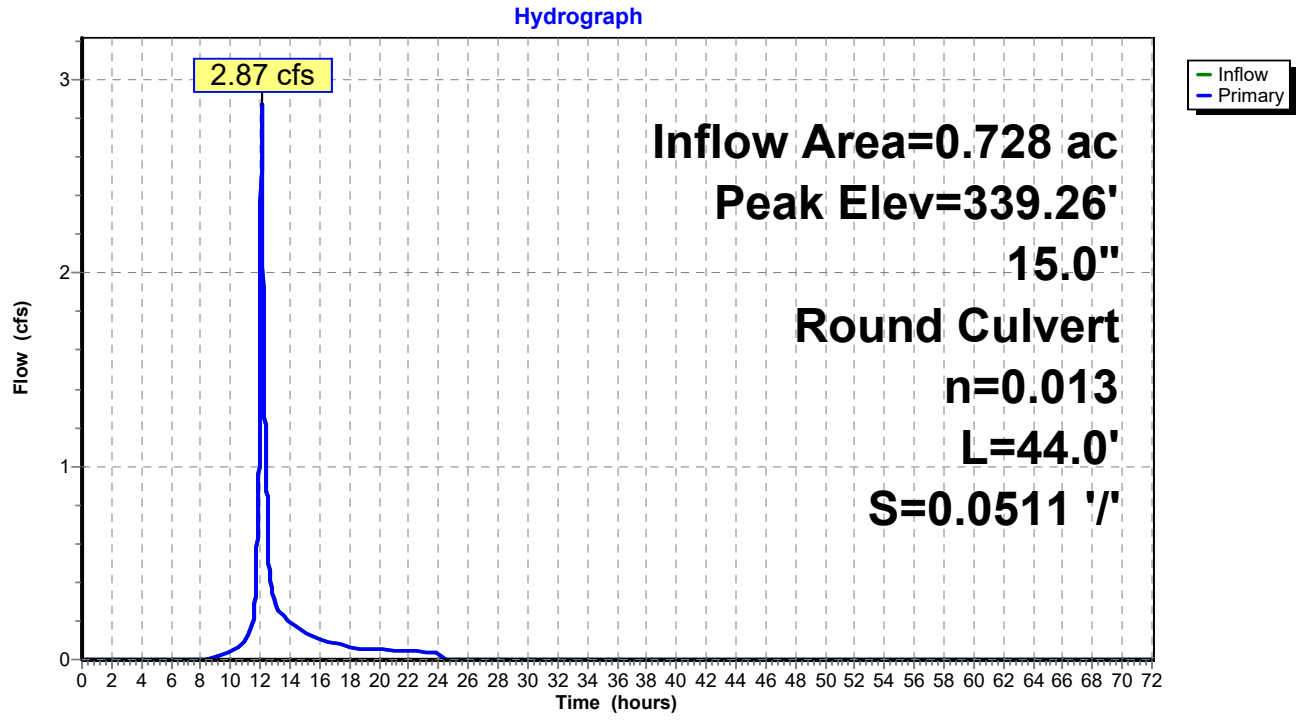
Inflow Area = 0.728 ac, 21.40% Impervious, Inflow Depth = 3.37" for 50-YR event
Inflow = 2.87 cfs @ 12.09 hrs, Volume= 0.205 af
Outflow = 2.87 cfs @ 12.09 hrs, Volume= 0.205 af, Atten= 0%, Lag= 0.0 min
Primary = 2.87 cfs @ 12.09 hrs, Volume= 0.205 af
Routed to Pond 301P : CB 301

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 339.26' @ 12.09 hrs
Flood Elev= 342.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	338.25'	**15.0" Round Culvert** L= 44.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 338.25' / 336.00' S= 0.0511 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.87 cfs @ 12.09 hrs HW=339.26' (Free Discharge)
1=Culvert (Inlet Controls 2.87 cfs @ 2.70 fps)

Pond 301BP: CB 301B



Summary for Pond 301CP: FES 301C

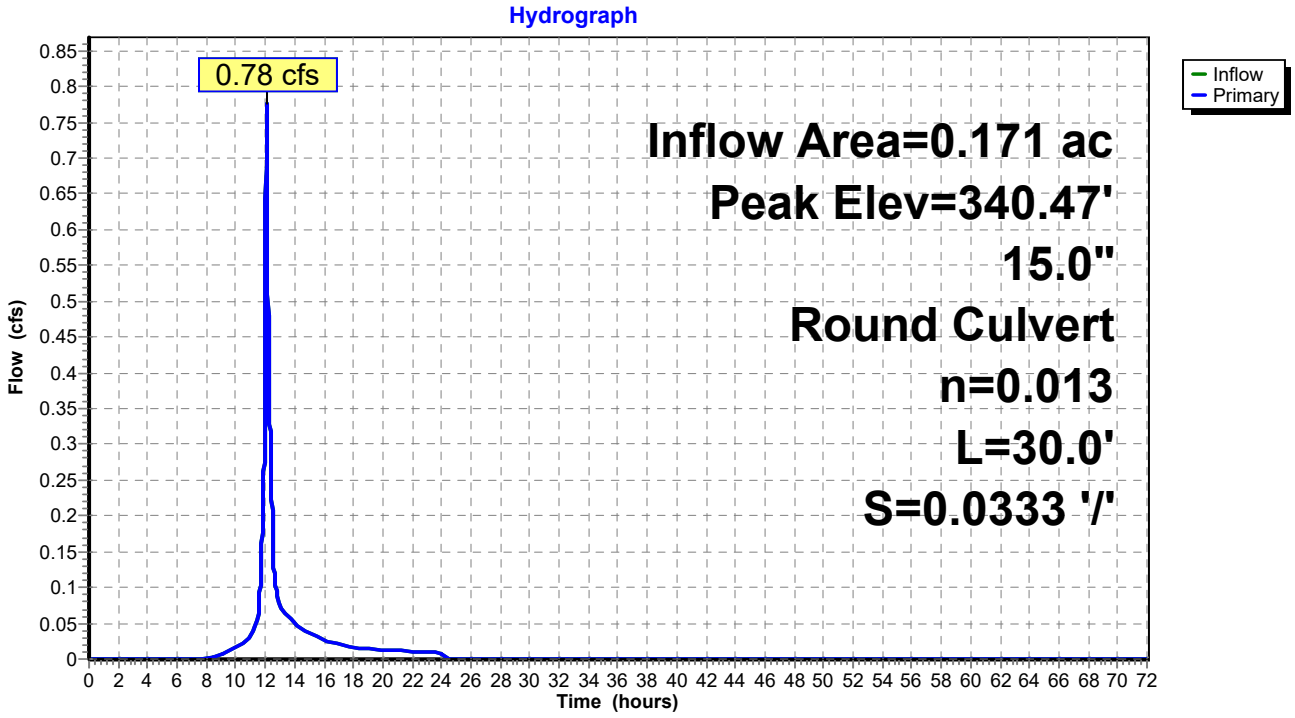
Inflow Area = 0.171 ac, 39.41% Impervious, Inflow Depth = 3.86" for 50-YR event
Inflow = 0.78 cfs @ 12.09 hrs, Volume= 0.055 af
Outflow = 0.78 cfs @ 12.09 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 0.78 cfs @ 12.09 hrs, Volume= 0.055 af
Routed to Pond 301BP : CB 301B

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 340.47' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	340.00'	**15.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 340.00' / 339.00' S= 0.0333 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.77 cfs @ 12.09 hrs HW=340.47' (Free Discharge)
1=Culvert (Inlet Controls 0.77 cfs @ 1.84 fps)

Pond 301CP: FES 301C



Summary for Pond 301P: CB 301

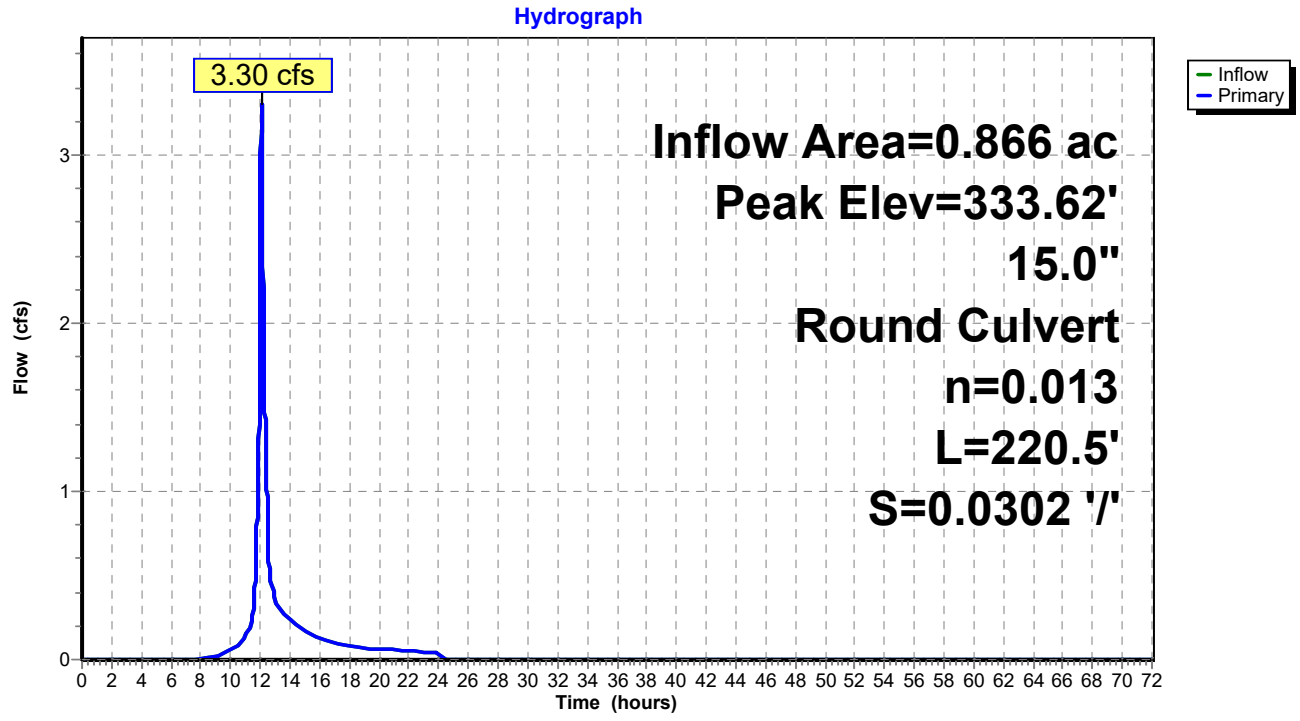
Inflow Area = 0.866 ac, 24.87% Impervious, Inflow Depth = 3.50" for 50-YR event
Inflow = 3.30 cfs @ 12.08 hrs, Volume= 0.253 af
Outflow = 3.30 cfs @ 12.08 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min
Primary = 3.30 cfs @ 12.08 hrs, Volume= 0.253 af
Routed to Pond 302P : CB 302

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 333.62' @ 12.08 hrs
Flood Elev= 337.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	332.50'	**15.0" Round Culvert** L= 220.5' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 332.50' / 325.85' S= 0.0302 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.30 cfs @ 12.08 hrs HW=333.62' (Free Discharge)
1=Culvert (Inlet Controls 3.30 cfs @ 2.84 fps)

Pond 301P: CB 301



Summary for Pond 302P: CB 302

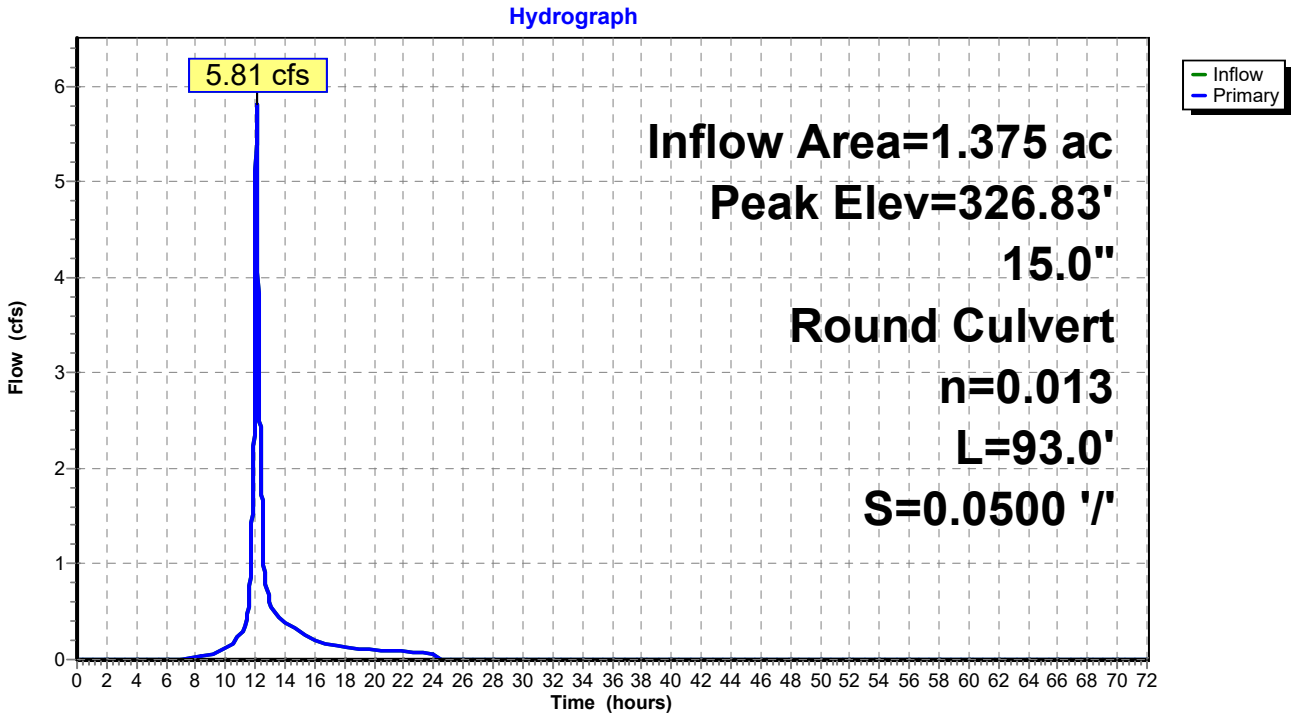
Inflow Area = 1.375 ac, 34.12% Impervious, Inflow Depth = 3.79" for 50-YR event
Inflow = 5.81 cfs @ 12.08 hrs, Volume= 0.434 af
Outflow = 5.81 cfs @ 12.08 hrs, Volume= 0.434 af, Atten= 0%, Lag= 0.0 min
Primary = 5.81 cfs @ 12.08 hrs, Volume= 0.434 af
Routed to Pond 304P : CB 304

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 326.83' @ 12.08 hrs
Flood Elev= 332.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	324.65'	**15.0" Round Culvert** L= 93.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 324.65' / 320.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.81 cfs @ 12.08 hrs HW=326.82' (Free Discharge)
1=Culvert (Inlet Controls 5.81 cfs @ 4.73 fps)

Pond 302P: CB 302



Summary for Pond 303P: CB 303

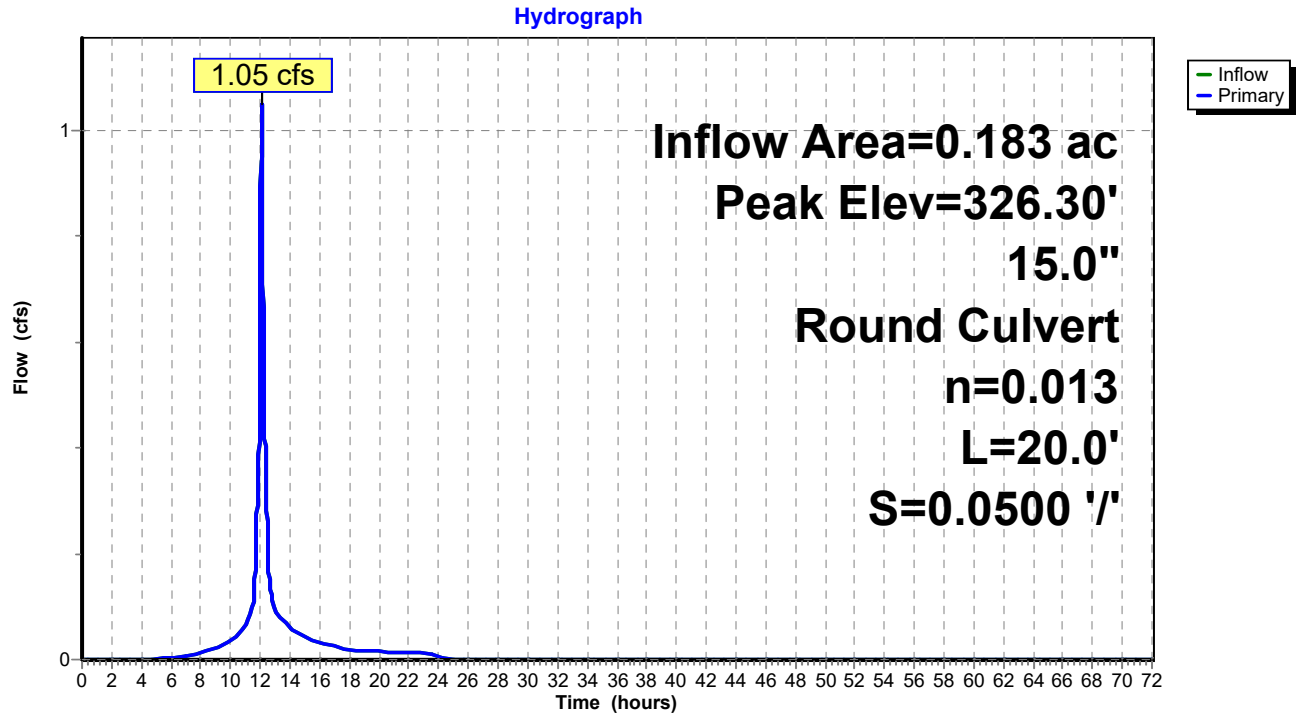
Inflow Area = 0.183 ac, 69.21% Impervious, Inflow Depth = 5.05" for 50-YR event
Inflow = 1.05 cfs @ 12.09 hrs, Volume= 0.077 af
Outflow = 1.05 cfs @ 12.09 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
Primary = 1.05 cfs @ 12.09 hrs, Volume= 0.077 af
Routed to Pond 302P : CB 302

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 326.30' @ 12.09 hrs
Flood Elev= 332.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	325.75'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 325.75' / 324.75' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.04 cfs @ 12.09 hrs HW=326.30' (Free Discharge)
1=Culvert (Inlet Controls 1.04 cfs @ 2.00 fps)

Pond 303P: CB 303



Summary for Pond 304P: CB 304

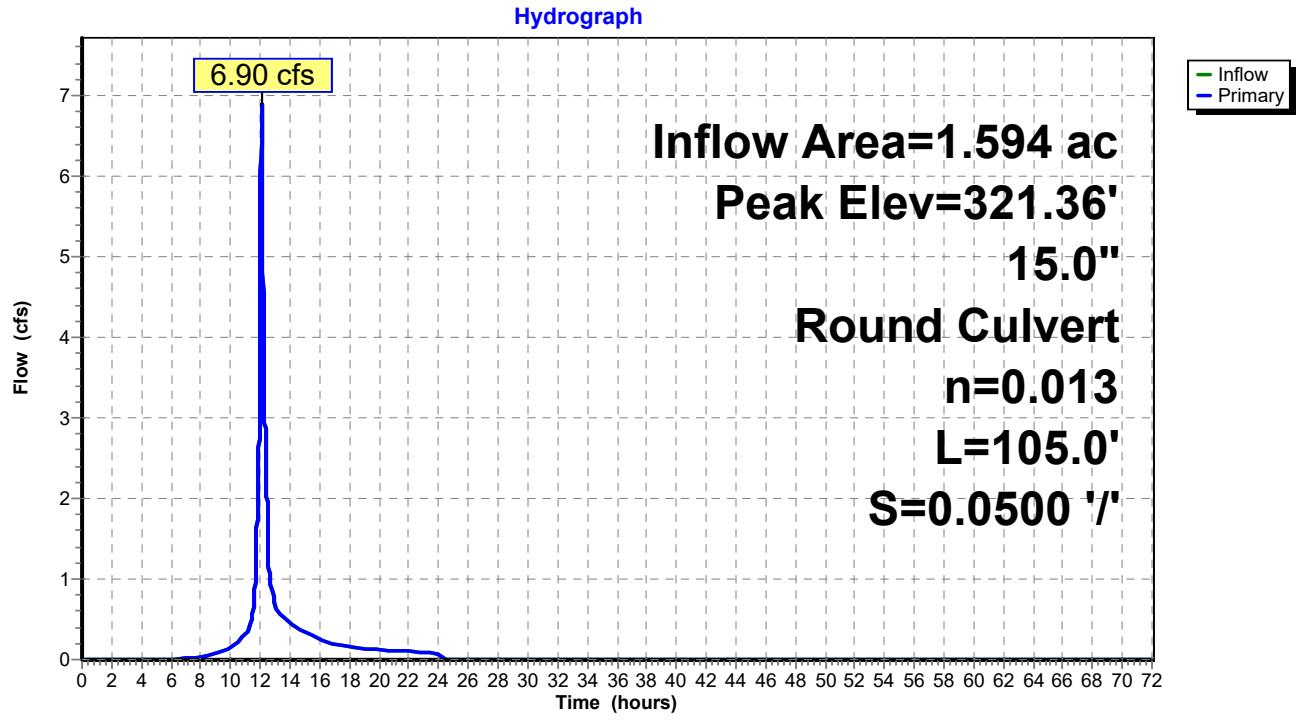
Inflow Area = 1.594 ac, 36.64% Impervious, Inflow Depth = 3.86" for 50-YR event
Inflow = 6.90 cfs @ 12.08 hrs, Volume= 0.513 af
Outflow = 6.90 cfs @ 12.08 hrs, Volume= 0.513 af, Atten= 0%, Lag= 0.0 min
Primary = 6.90 cfs @ 12.08 hrs, Volume= 0.513 af
Routed to Pond 306P : CB 306

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 321.36' @ 12.08 hrs
Flood Elev= 325.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	318.55'	**15.0" Round Culvert** L= 105.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 318.55' / 313.30' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=6.89 cfs @ 12.08 hrs HW=321.35' (Free Discharge)
1=Culvert (Inlet Controls 6.89 cfs @ 5.61 fps)

Pond 304P: CB 304



Summary for Pond 305P: CB 305

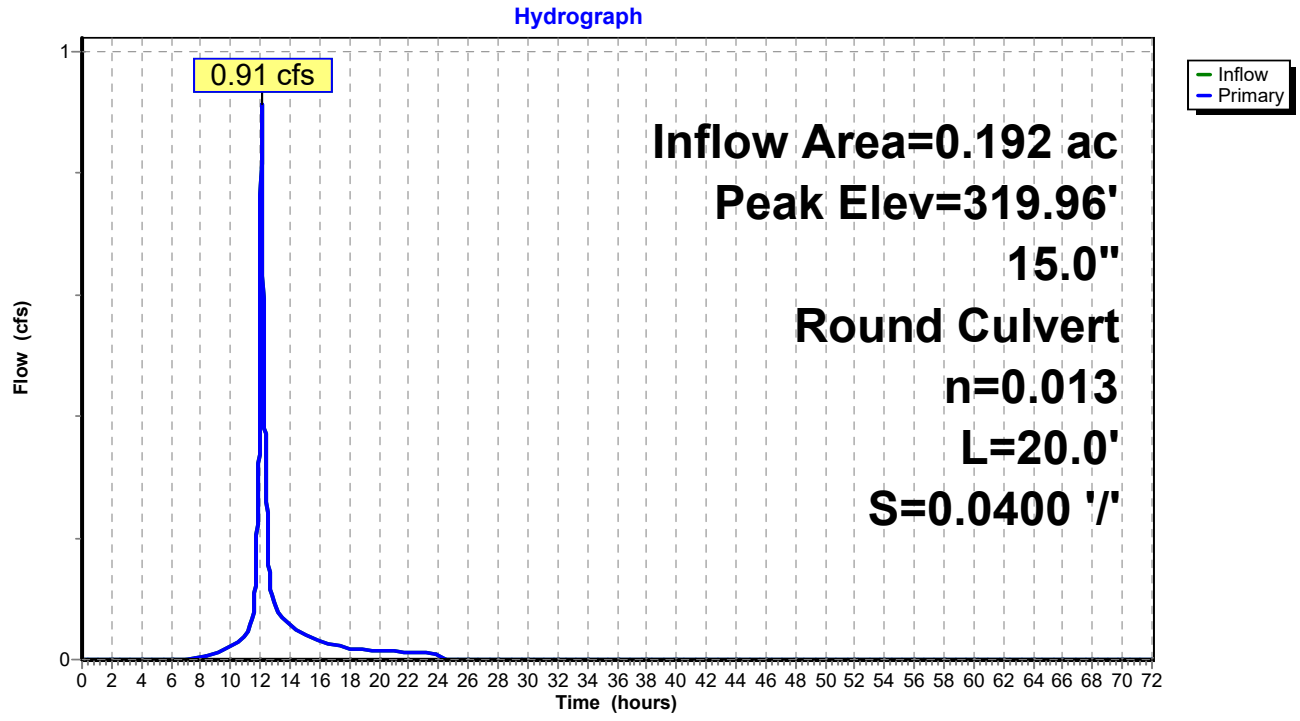
Inflow Area = 0.192 ac, 46.29% Impervious, Inflow Depth = 4.07" for 50-YR event
Inflow = 0.91 cfs @ 12.09 hrs, Volume= 0.065 af
Outflow = 0.91 cfs @ 12.09 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min
Primary = 0.91 cfs @ 12.09 hrs, Volume= 0.065 af
Routed to Pond 304P : CB 304

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 319.96' @ 12.09 hrs
Flood Elev= 325.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	319.45'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 319.45' / 318.65' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.91 cfs @ 12.09 hrs HW=319.96' (Free Discharge)
1=Culvert (Inlet Controls 0.91 cfs @ 1.92 fps)

Pond 305P: CB 305



Summary for Pond 306P: CB 306

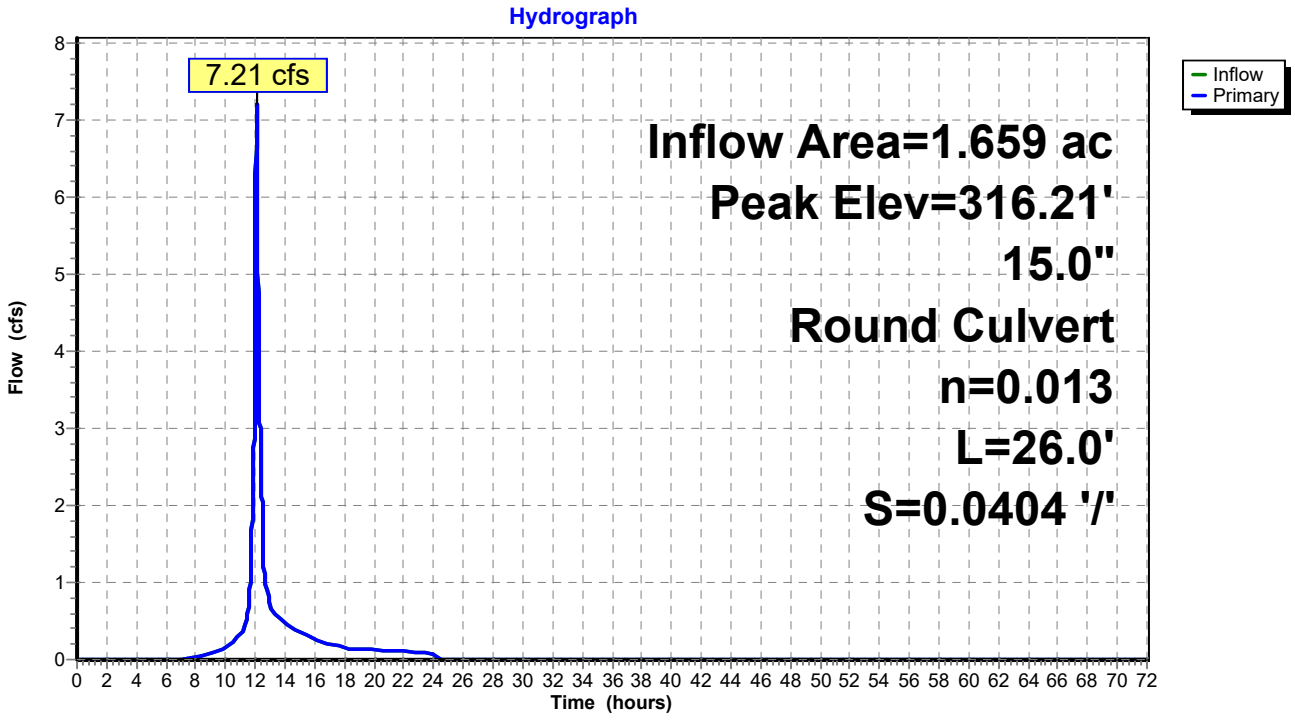
Inflow Area = 1.659 ac, 36.98% Impervious, Inflow Depth = 3.87" for 50-YR event
Inflow = 7.21 cfs @ 12.08 hrs, Volume= 0.535 af
Outflow = 7.21 cfs @ 12.08 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min
Primary = 7.21 cfs @ 12.08 hrs, Volume= 0.535 af
Routed to Pond 307P : CB 307

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 316.21' @ 12.08 hrs
Flood Elev= 319.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	313.20'	**15.0" Round Culvert** L= 26.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 313.20' / 312.15' S= 0.0404 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=7.20 cfs @ 12.08 hrs HW=316.20' (Free Discharge)
1=Culvert (Inlet Controls 7.20 cfs @ 5.86 fps)

Pond 306P: CB 306



Summary for Pond 307P: CB 307

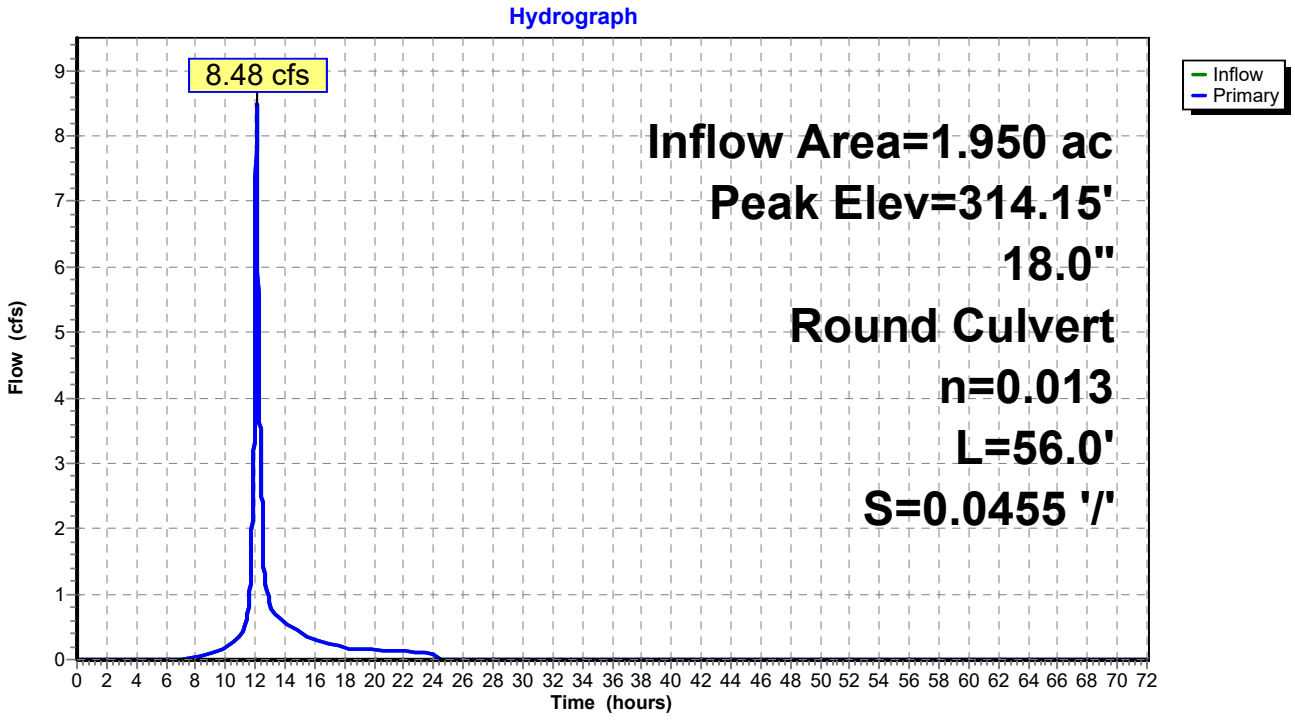
Inflow Area = 1.950 ac, 37.62% Impervious, Inflow Depth = 3.85" for 50-YR event
Inflow = 8.48 cfs @ 12.08 hrs, Volume= 0.626 af
Outflow = 8.48 cfs @ 12.08 hrs, Volume= 0.626 af, Atten= 0%, Lag= 0.0 min
Primary = 8.48 cfs @ 12.08 hrs, Volume= 0.626 af
Routed to Pond 308P : CB 308

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 314.15' @ 12.08 hrs
Flood Elev= 318.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	311.80'	**18.0" Round Culvert** L= 56.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 311.80' / 309.25' S= 0.0455 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.47 cfs @ 12.08 hrs HW=314.14' (Free Discharge)
1=Culvert (Inlet Controls 8.47 cfs @ 4.79 fps)

Pond 307P: CB 307



Summary for Pond 308P: CB 308

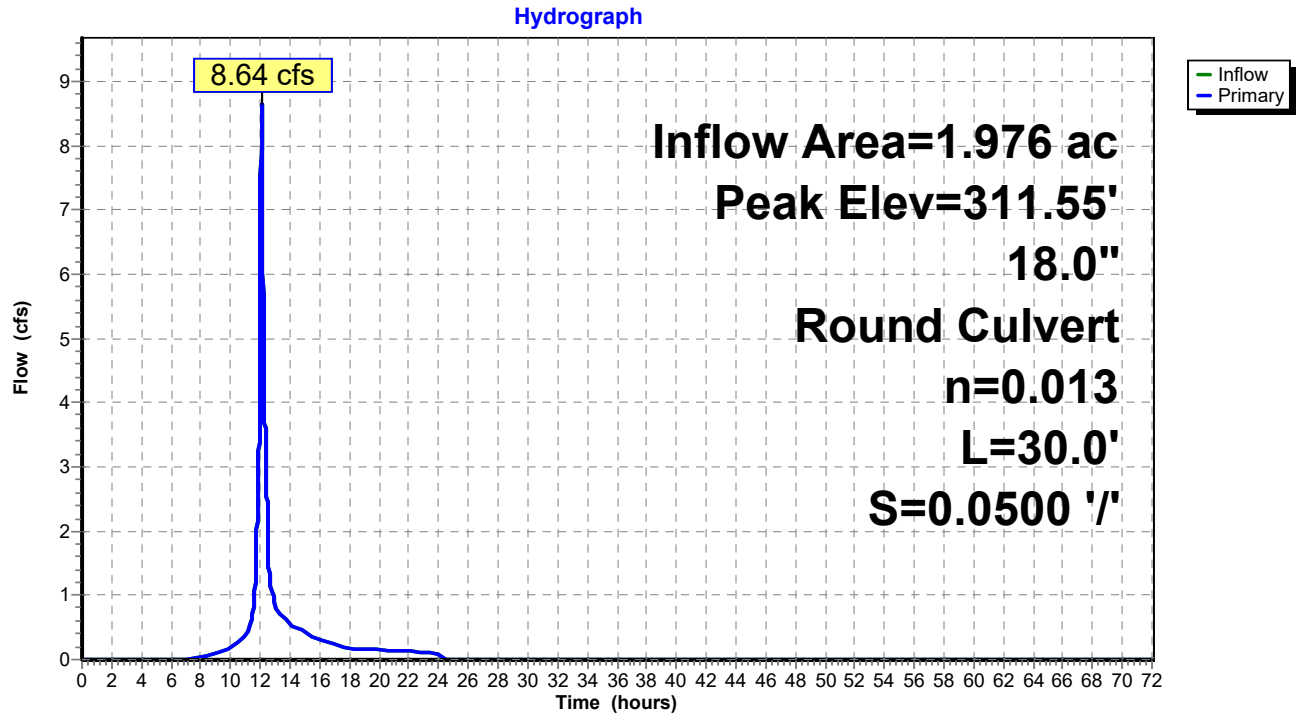
Inflow Area = 1.976 ac, 38.16% Impervious, Inflow Depth = 3.87" for 50-YR event
Inflow = 8.64 cfs @ 12.08 hrs, Volume= 0.638 af
Outflow = 8.64 cfs @ 12.08 hrs, Volume= 0.638 af, Atten= 0%, Lag= 0.0 min
Primary = 8.64 cfs @ 12.08 hrs, Volume= 0.638 af
Routed to Pond 309P : CB 309

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 311.55' @ 12.08 hrs
Flood Elev= 315.58'

Device	Routing	Invert	Outlet Devices
#1	Primary	309.15'	**18.0" Round Culvert** L= 30.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 309.15' / 307.65' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.63 cfs @ 12.08 hrs HW=311.55' (Free Discharge)
1=Culvert (Inlet Controls 8.63 cfs @ 4.88 fps)

Pond 308P: CB 308



Summary for Pond 309P: CB 309

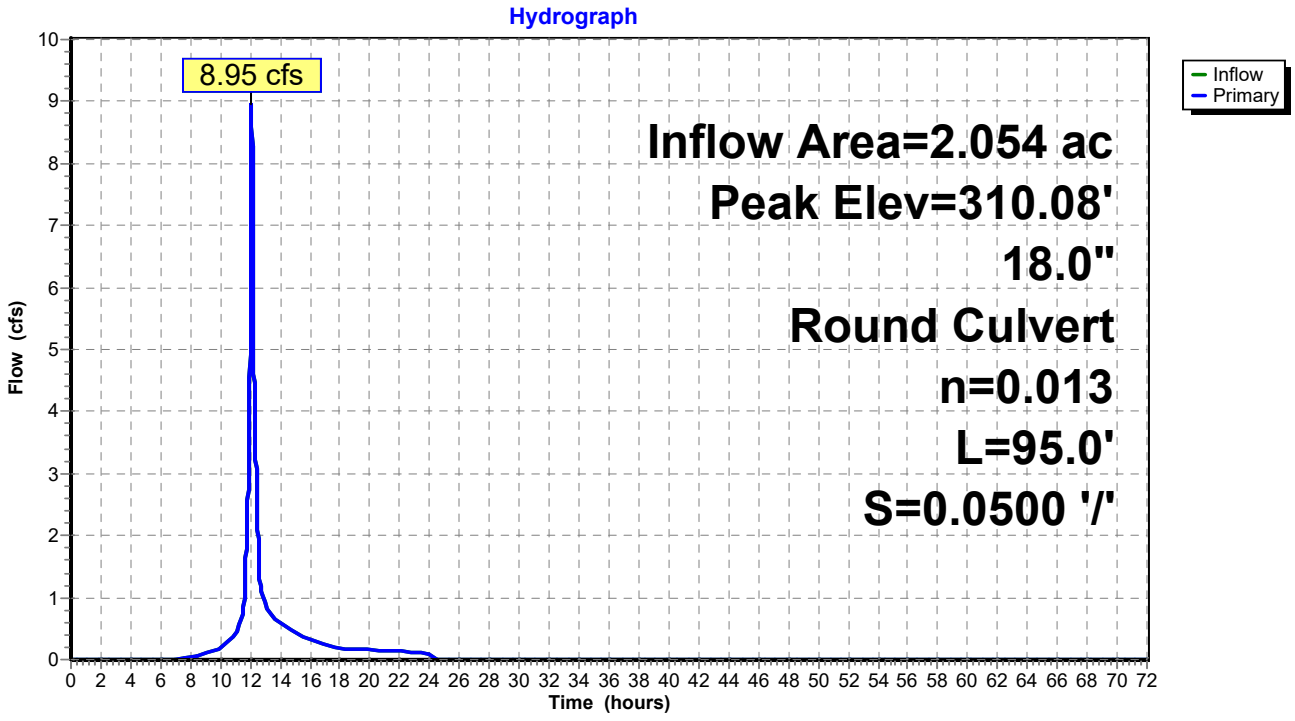
Inflow Area = 2.054 ac, 37.85% Impervious, Inflow Depth = 3.86" for 50-YR event
Inflow = 8.95 cfs @ 12.08 hrs, Volume= 0.660 af
Outflow = 8.95 cfs @ 12.08 hrs, Volume= 0.660 af, Atten= 0%, Lag= 0.0 min
Primary = 8.95 cfs @ 12.08 hrs, Volume= 0.660 af
Routed to Pond 310P : CB 310

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 310.08' @ 12.08 hrs
Flood Elev= 314.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	307.55'	**18.0" Round Culvert** L= 95.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 307.55' / 302.80' S= 0.0500 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=8.94 cfs @ 12.08 hrs HW=310.07' (Free Discharge)
1=Culvert (Inlet Controls 8.94 cfs @ 5.06 fps)

Pond 309P: CB 309



Summary for Pond 310P: CB 310

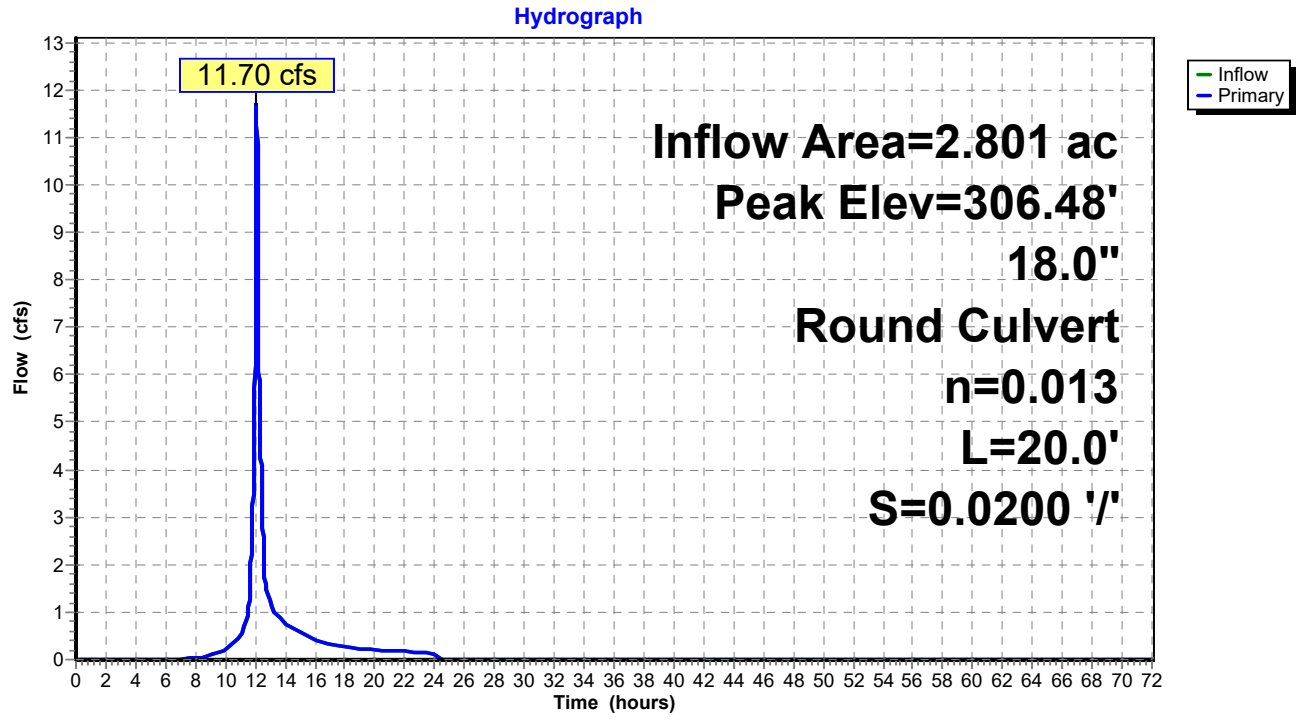
Inflow Area = 2.801 ac, 33.48% Impervious, Inflow Depth = 3.67" for 50-YR event
Inflow = 11.70 cfs @ 12.09 hrs, Volume= 0.856 af
Outflow = 11.70 cfs @ 12.09 hrs, Volume= 0.856 af, Atten= 0%, Lag= 0.0 min
Primary = 11.70 cfs @ 12.09 hrs, Volume= 0.856 af
Routed to Pond 311P : CB 311

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 306.48' @ 12.09 hrs
Flood Elev= 309.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.70'	**18.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 302.70' / 302.30' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=11.68 cfs @ 12.09 hrs HW=306.47' (Free Discharge)
1=Culvert (Inlet Controls 11.68 cfs @ 6.61 fps)

Pond 310P: CB 310



Summary for Pond 311P: CB 311

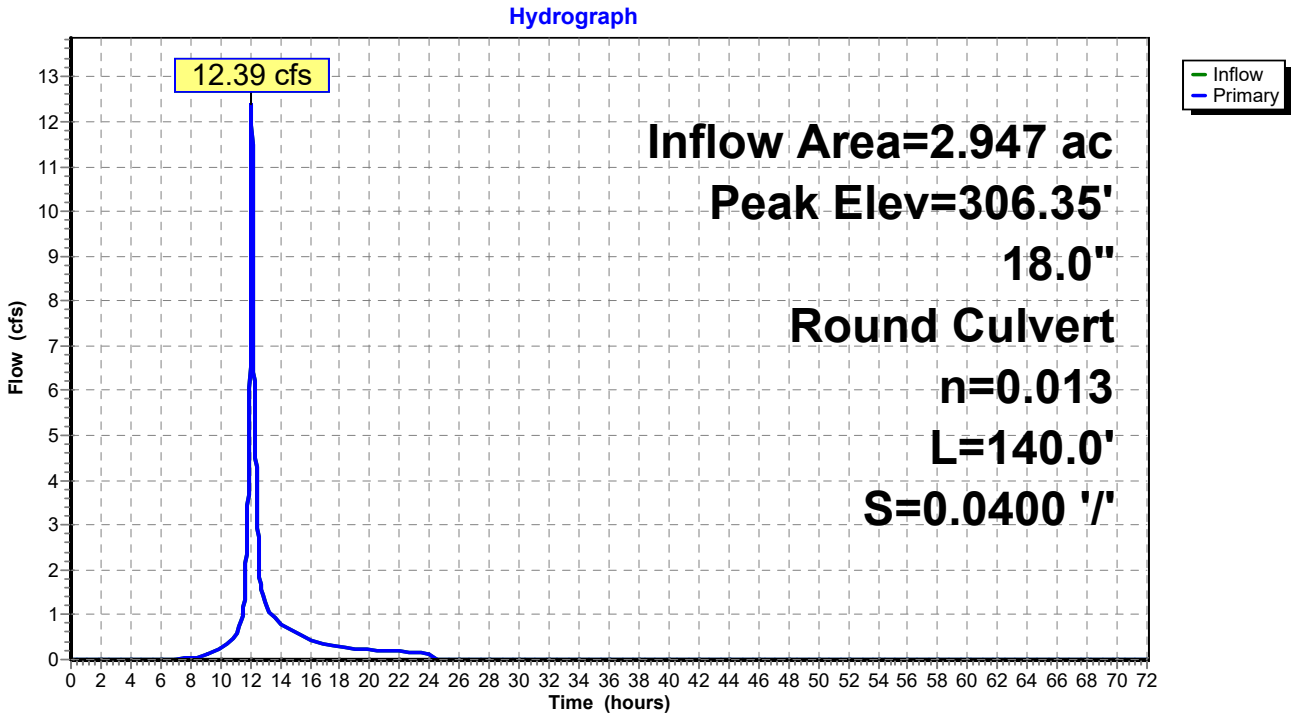
Inflow Area = 2.947 ac, 34.10% Impervious, Inflow Depth = 3.69" for 50-YR event
Inflow = 12.39 cfs @ 12.09 hrs, Volume= 0.906 af
Outflow = 12.39 cfs @ 12.09 hrs, Volume= 0.906 af, Atten= 0%, Lag= 0.0 min
Primary = 12.39 cfs @ 12.09 hrs, Volume= 0.906 af
Routed to Pond 312P : CB 312

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 306.35' @ 12.09 hrs
Flood Elev= 309.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	302.20'	**18.0" Round Culvert** L= 140.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 302.20' / 296.60' S= 0.0400 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=12.37 cfs @ 12.09 hrs HW=306.34' (Free Discharge)
1=Culvert (Inlet Controls 12.37 cfs @ 7.00 fps)

Pond 311P: CB 311



Summary for Pond 312P: CB 312

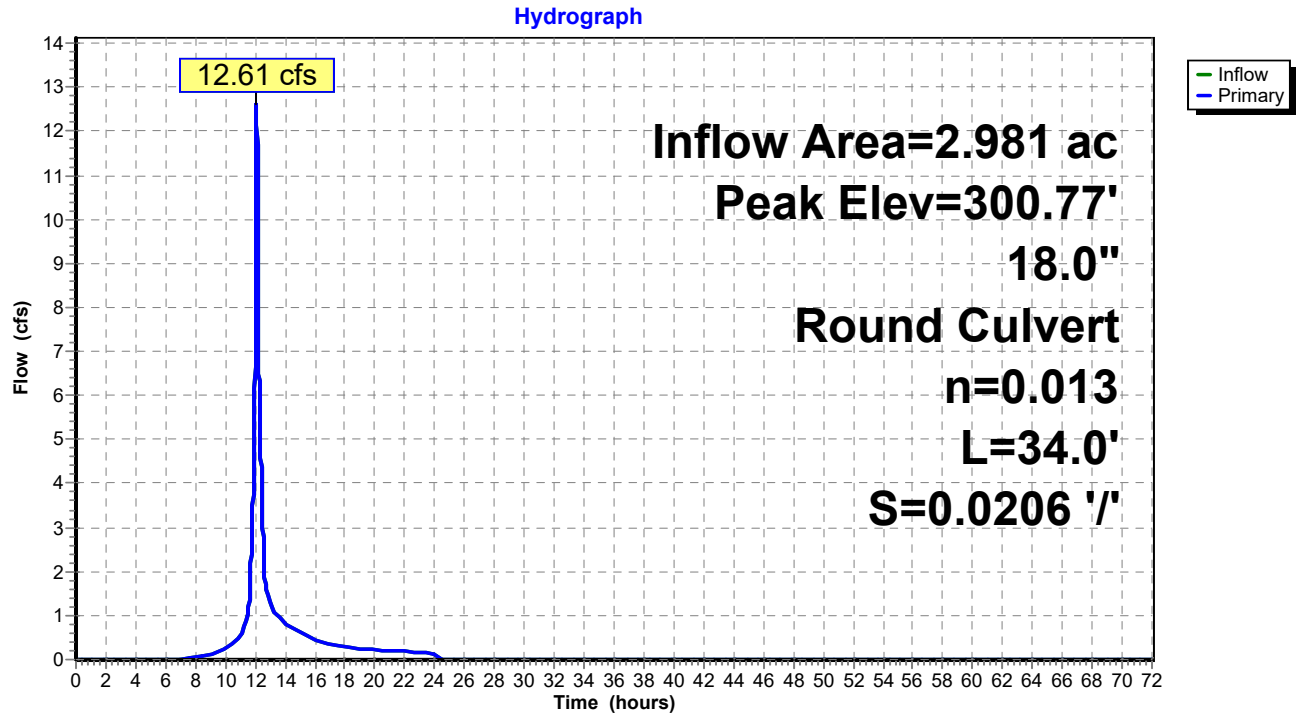
Inflow Area = 2.981 ac, 34.86% Impervious, Inflow Depth = 3.72" for 50-YR event
Inflow = 12.61 cfs @ 12.09 hrs, Volume= 0.924 af
Outflow = 12.61 cfs @ 12.09 hrs, Volume= 0.924 af, Atten= 0%, Lag= 0.0 min
Primary = 12.61 cfs @ 12.09 hrs, Volume= 0.924 af
Routed to Pond 3.1AP : FOREBAY

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 300.77' @ 12.09 hrs
Flood Elev= 301.78'

Device	Routing	Invert	Outlet Devices
#1	Primary	296.50'	**18.0" Round Culvert** L= 34.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 296.50' / 295.80' S= 0.0206 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=12.59 cfs @ 12.09 hrs HW=300.76' (Free Discharge)
1=Culvert (Inlet Controls 12.59 cfs @ 7.12 fps)

Pond 312P: CB 312



Summary for Pond 313P: CB 313

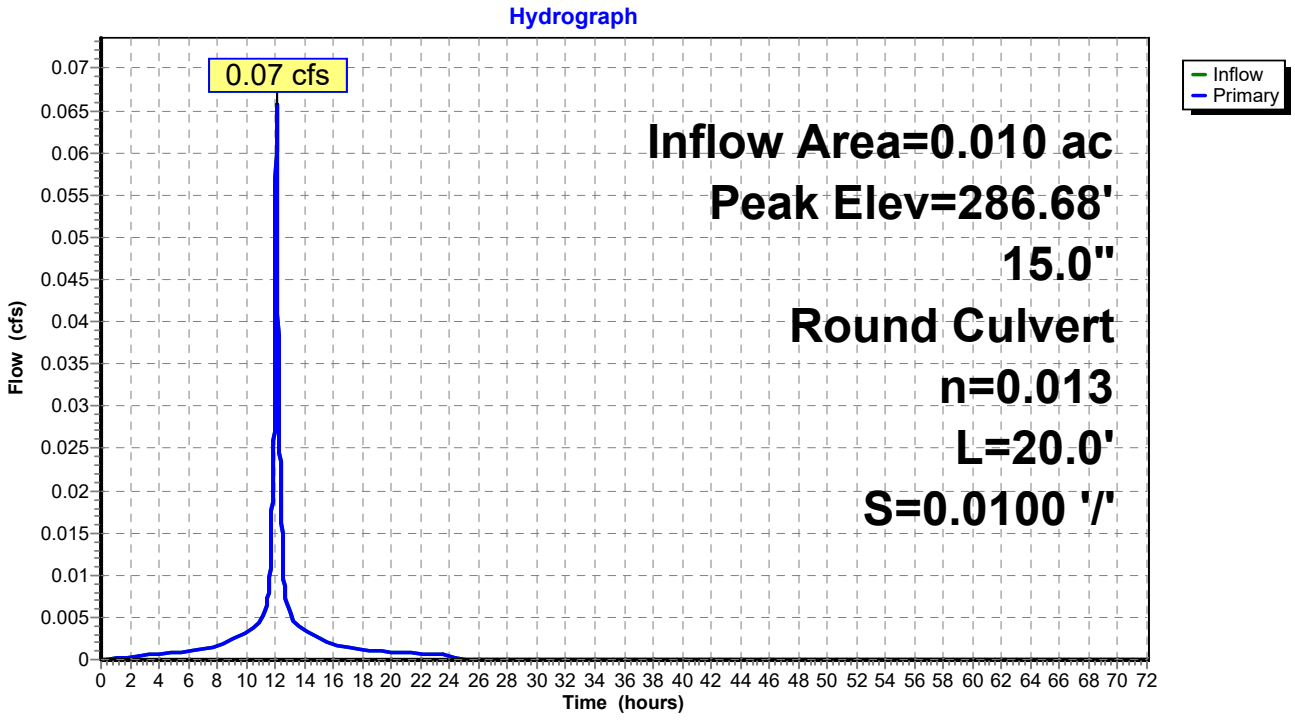
Inflow Area = 0.010 ac,100.00% Impervious, Inflow Depth = 6.31" for 50-YR event
Inflow = 0.07 cfs @ 12.08 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.08 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.08 hrs, Volume= 0.005 af
Routed to Pond 314P : CB 314

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 286.68' @ 12.08 hrs
Flood Elev= 292.05'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.55'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 286.55' / 286.35' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.06 cfs @ 12.08 hrs HW=286.68' (Free Discharge)
1=Culvert (Inlet Controls 0.06 cfs @ 0.96 fps)

Pond 313P: CB 313



Summary for Pond 314P: CB 314

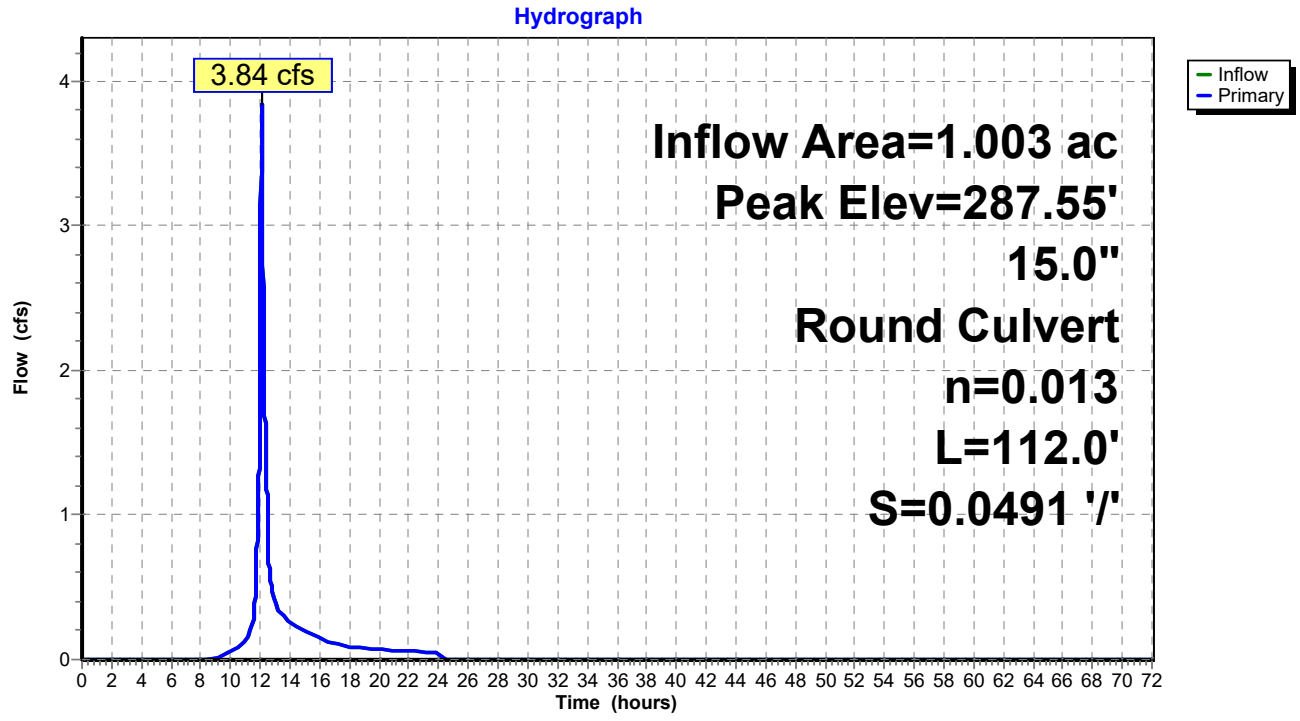
Inflow Area = 1.003 ac, 24.18% Impervious, Inflow Depth = 3.28" for 50-YR event
Inflow = 3.84 cfs @ 12.09 hrs, Volume= 0.274 af
Outflow = 3.84 cfs @ 12.09 hrs, Volume= 0.274 af, Atten= 0%, Lag= 0.0 min
Primary = 3.84 cfs @ 12.09 hrs, Volume= 0.274 af
Routed to Pond 316P : CB 316

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 287.55' @ 12.09 hrs
Flood Elev= 291.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.25'	**15.0" Round Culvert** L= 112.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 286.25' / 280.75' S= 0.0491 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.84 cfs @ 12.09 hrs HW=287.55' (Free Discharge)
1=Culvert (Inlet Controls 3.84 cfs @ 3.13 fps)

Pond 314P: CB 314



Summary for Pond 315P: CB 315

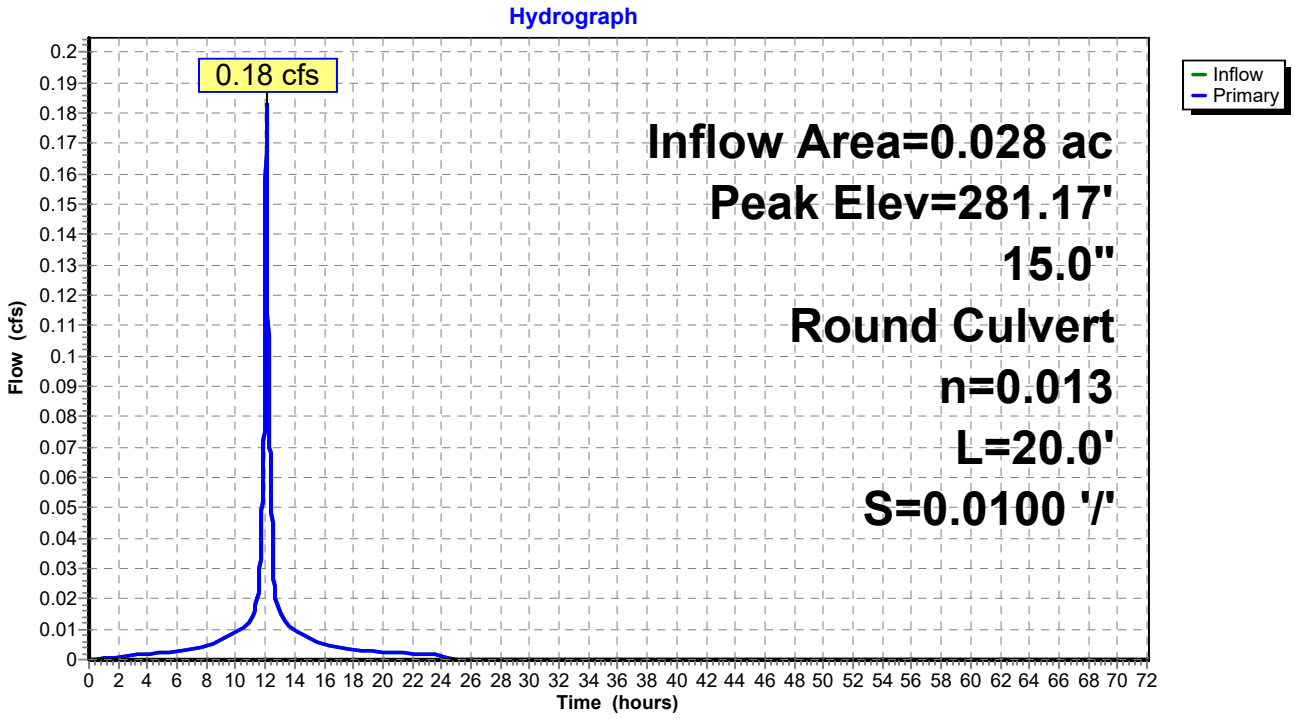
Inflow Area = 0.028 ac,100.00% Impervious, Inflow Depth = 6.31" for 50-YR event
Inflow = 0.18 cfs @ 12.08 hrs, Volume= 0.015 af
Outflow = 0.18 cfs @ 12.08 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.08 hrs, Volume= 0.015 af
Routed to Pond 316P : CB 316

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 281.17' @ 12.08 hrs
Flood Elev= 283.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.95'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 280.95' / 280.75' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.18 cfs @ 12.08 hrs HW=281.17' (Free Discharge)
1=Culvert (Inlet Controls 0.18 cfs @ 1.26 fps)

Pond 315P: CB 315



Summary for Pond 316P: CB 316

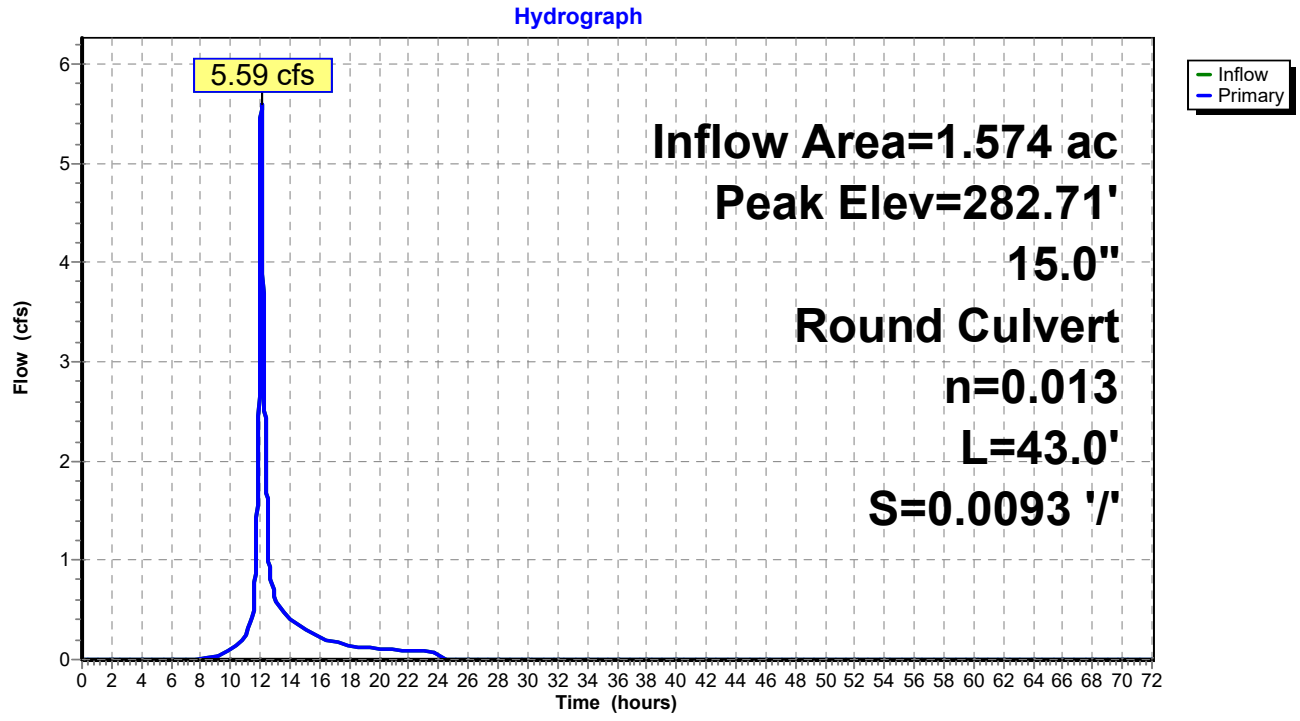
Inflow Area = 1.574 ac, 27.23% Impervious, Inflow Depth = 3.39" for 50-YR event
Inflow = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af
Outflow = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af, Atten= 0%, Lag= 0.0 min
Primary = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af
Routed to Pond DMH-1 : DMH-1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 282.71' @ 12.06 hrs
Flood Elev= 283.02'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.65'	**15.0" Round Culvert** L= 43.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 280.65' / 280.25' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.59 cfs @ 12.06 hrs HW=282.71' (Free Discharge)
1=Culvert (Inlet Controls 5.59 cfs @ 4.55 fps)

Pond 316P: CB 316



Summary for Pond 317P: FES 317

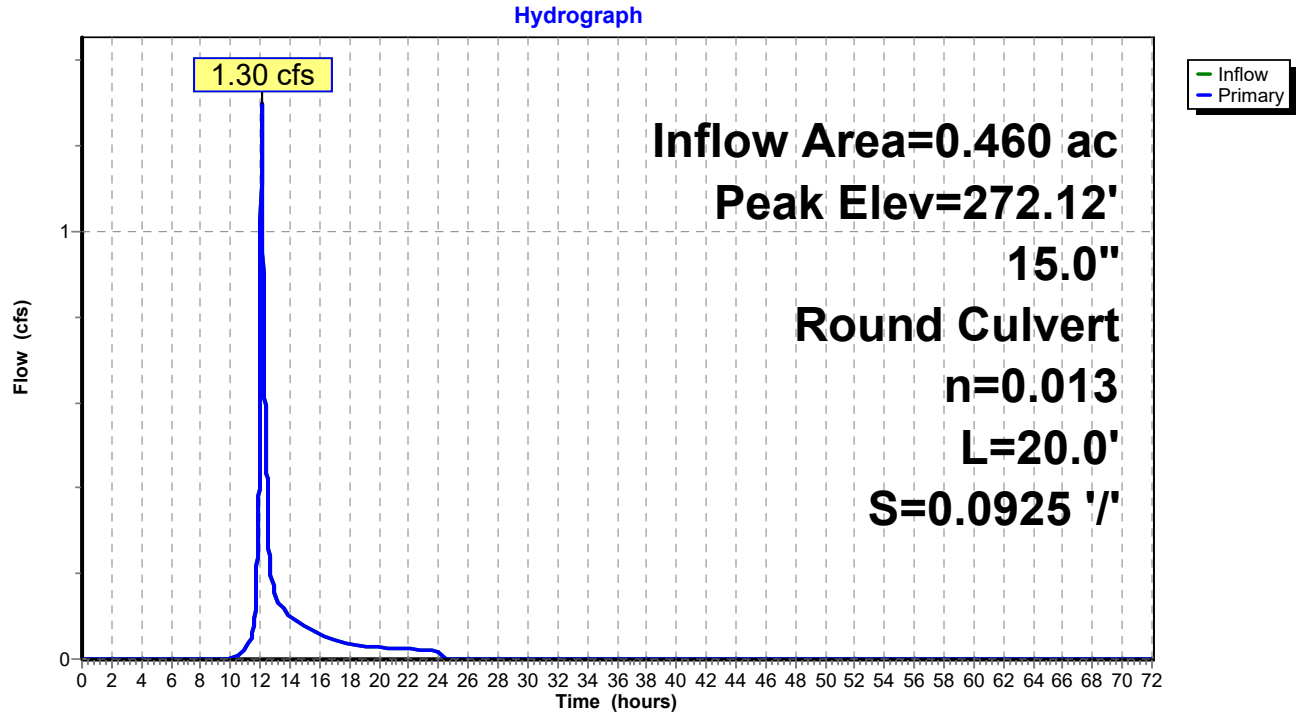
Inflow Area = 0.460 ac, 13.16% Impervious, Inflow Depth = 2.48" for 50-YR event
Inflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af
Outflow = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.09 hrs, Volume= 0.095 af
Routed to Pond 318P : CB 318

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 272.12' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	271.50'	**15.0" Round Culvert** L= 20.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 271.50' / 269.65' S= 0.0925 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.30 cfs @ 12.09 hrs HW=272.12' (Free Discharge)
1=Culvert (Inlet Controls 1.30 cfs @ 2.12 fps)

Pond 317P: FES 317



Summary for Pond 318P: CB 318

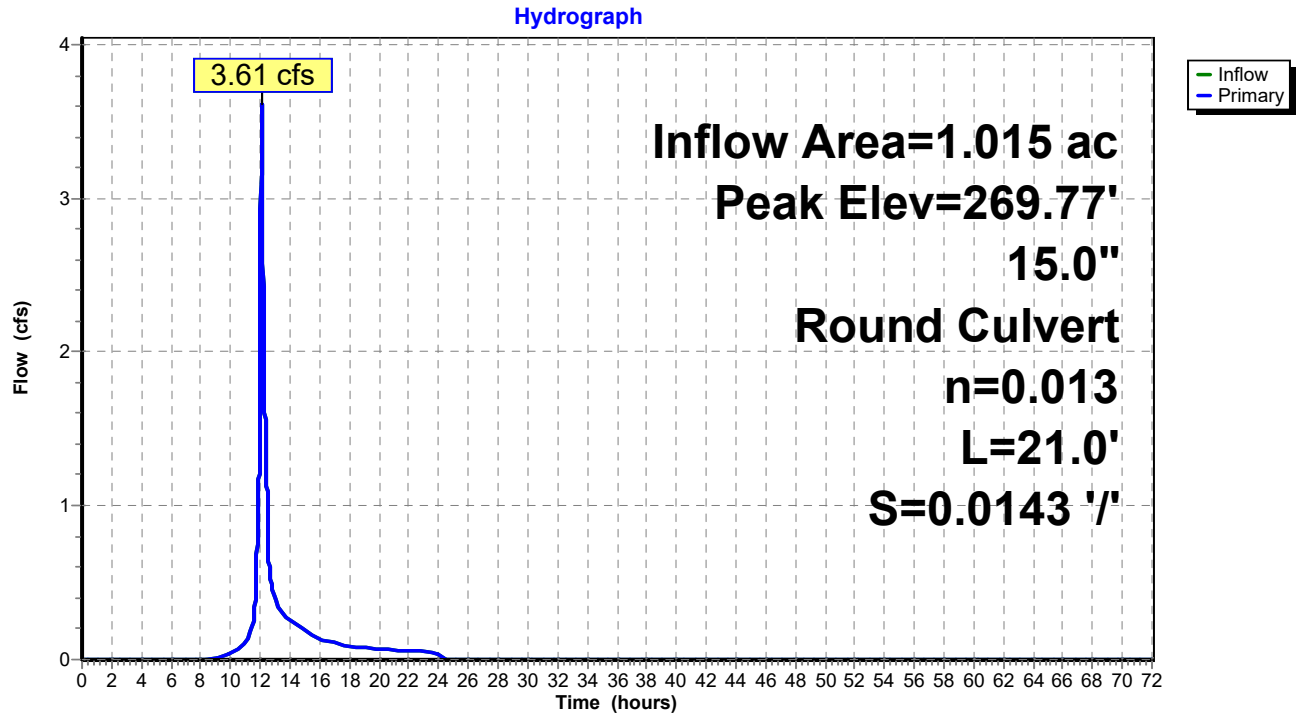
Inflow Area = 1.015 ac, 23.84% Impervious, Inflow Depth = 3.06" for 50-YR event
Inflow = 3.61 cfs @ 12.09 hrs, Volume= 0.259 af
Outflow = 3.61 cfs @ 12.09 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
Primary = 3.61 cfs @ 12.09 hrs, Volume= 0.259 af
Routed to Pond 319P : CB 319

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 269.77' @ 12.09 hrs
Flood Elev= 272.05'

Device	Routing	Invert	Outlet Devices
#1	Primary	268.55'	**15.0" Round Culvert** L= 21.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 268.55' / 268.25' S= 0.0143 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.61 cfs @ 12.09 hrs HW=269.77' (Free Discharge)
1=Culvert (Inlet Controls 3.61 cfs @ 2.96 fps)

Pond 318P: CB 318



Summary for Pond 319P: CB 319

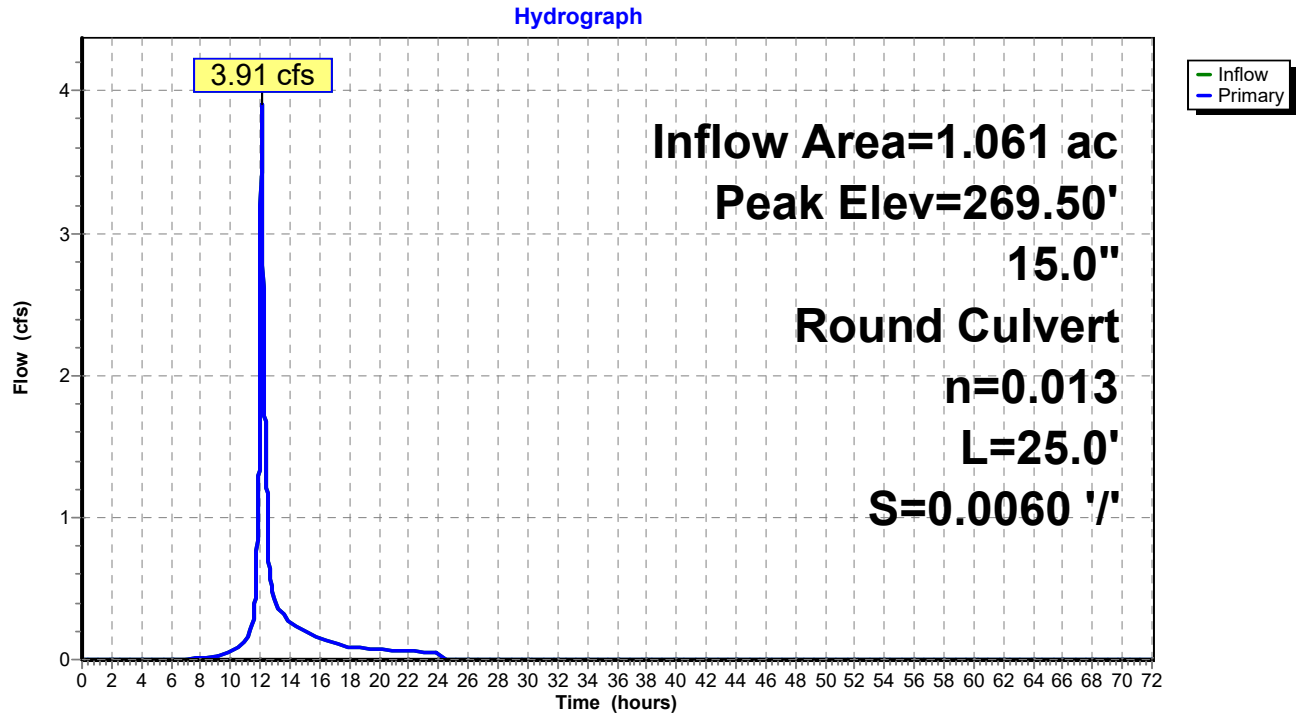
Inflow Area = 1.061 ac, 27.15% Impervious, Inflow Depth = 3.20" for 50-YR event
Inflow = 3.91 cfs @ 12.09 hrs, Volume= 0.283 af
Outflow = 3.91 cfs @ 12.09 hrs, Volume= 0.283 af, Atten= 0%, Lag= 0.0 min
Primary = 3.91 cfs @ 12.09 hrs, Volume= 0.283 af
Routed to Pond 3.3P : Stormwater Management Pond "B" Bioretention Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 269.50' @ 12.09 hrs
Flood Elev= 272.07'

Device	Routing	Invert	Outlet Devices
#1	Primary	268.15'	**15.0" Round Culvert** L= 25.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 268.15' / 268.00' S= 0.0060 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=3.91 cfs @ 12.09 hrs HW=269.50' (Free Discharge)
1=Culvert (Barrel Controls 3.91 cfs @ 3.66 fps)

Pond 319P: CB 319



Summary for Pond 320P: FES 320

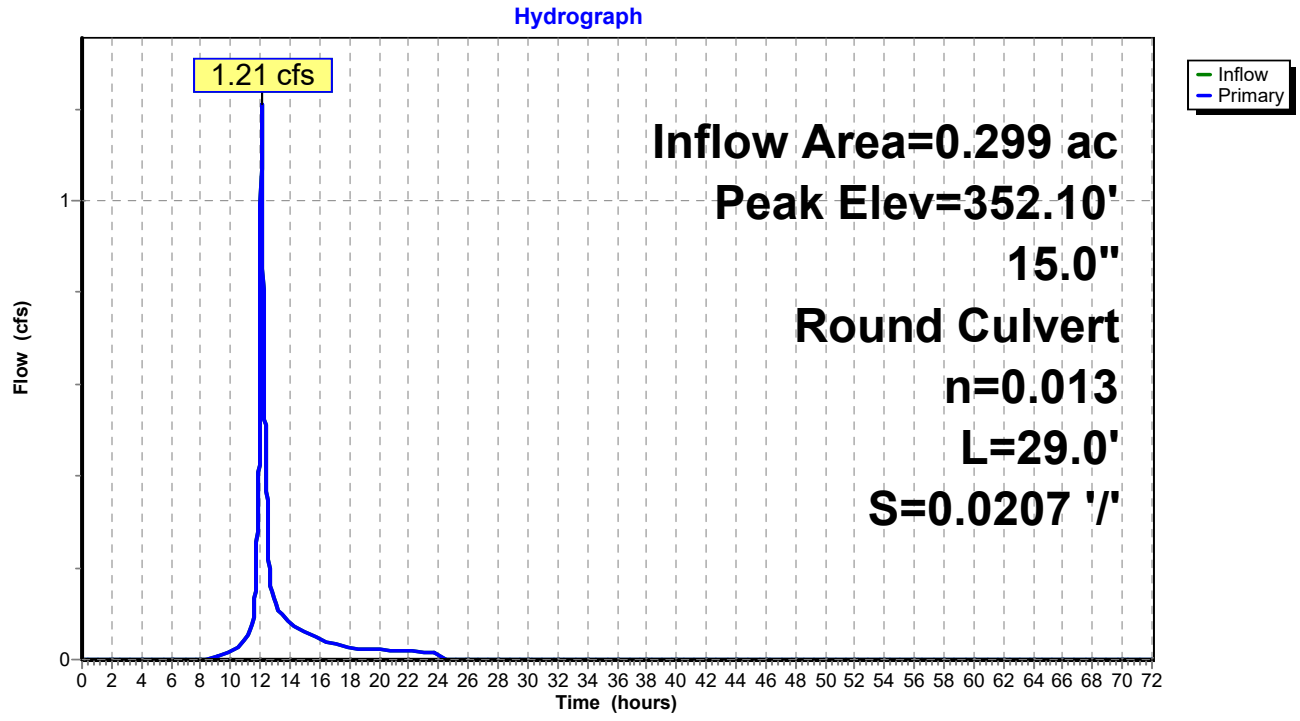
Inflow Area = 0.299 ac, 13.58% Impervious, Inflow Depth = 3.45" for 50-YR event
Inflow = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af
Outflow = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af, Atten= 0%, Lag= 0.0 min
Primary = 1.21 cfs @ 12.09 hrs, Volume= 0.086 af
Routed to Pond 3.2P : Stormwater Management Pond "A" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 352.10' @ 12.09 hrs
Flood Elev= 354.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	351.50'	**15.0" Round Culvert** L= 29.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 351.50' / 350.90' S= 0.0207 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.21 cfs @ 12.09 hrs HW=352.10' (Free Discharge)
1=Culvert (Inlet Controls 1.21 cfs @ 2.08 fps)

Pond 320P: FES 320



Summary for Pond 404P: Culvert

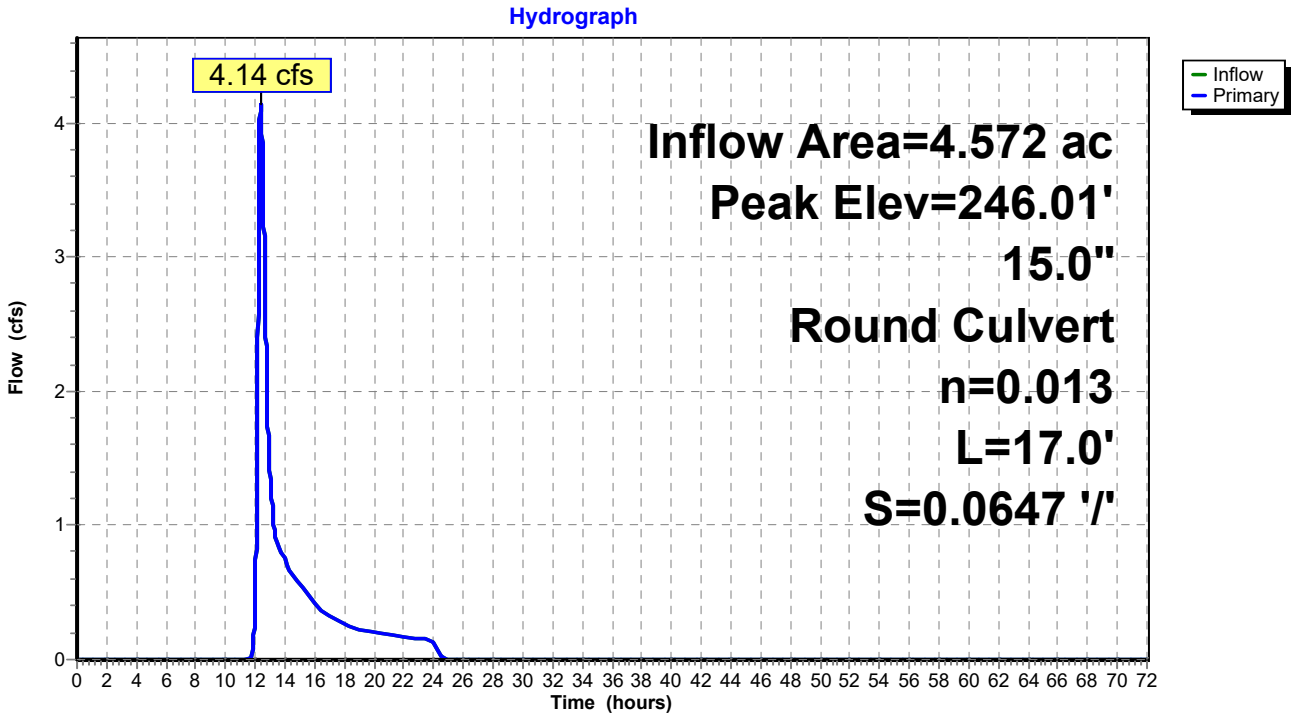
Inflow Area = 4.572 ac, 12.48% Impervious, Inflow Depth = 1.42" for 50-YR event
Inflow = 4.14 cfs @ 12.36 hrs, Volume= 0.542 af
Outflow = 4.14 cfs @ 12.36 hrs, Volume= 0.542 af, Atten= 0%, Lag= 0.0 min
Primary = 4.14 cfs @ 12.36 hrs, Volume= 0.542 af
Routed to Pond 4.4P : Stormwater Management Pond "F" Gravel Wetland

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 246.01' @ 12.36 hrs
Flood Elev= 246.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	244.60'	**15.0" Round Culvert** L= 17.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 244.60' / 243.50' S= 0.0647 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=4.14 cfs @ 12.36 hrs HW=246.01' (Free Discharge)
1=Culvert (Inlet Controls 4.14 cfs @ 3.37 fps)

Pond 404P: Culvert



Summary for Pond DMH-1: DMH-1

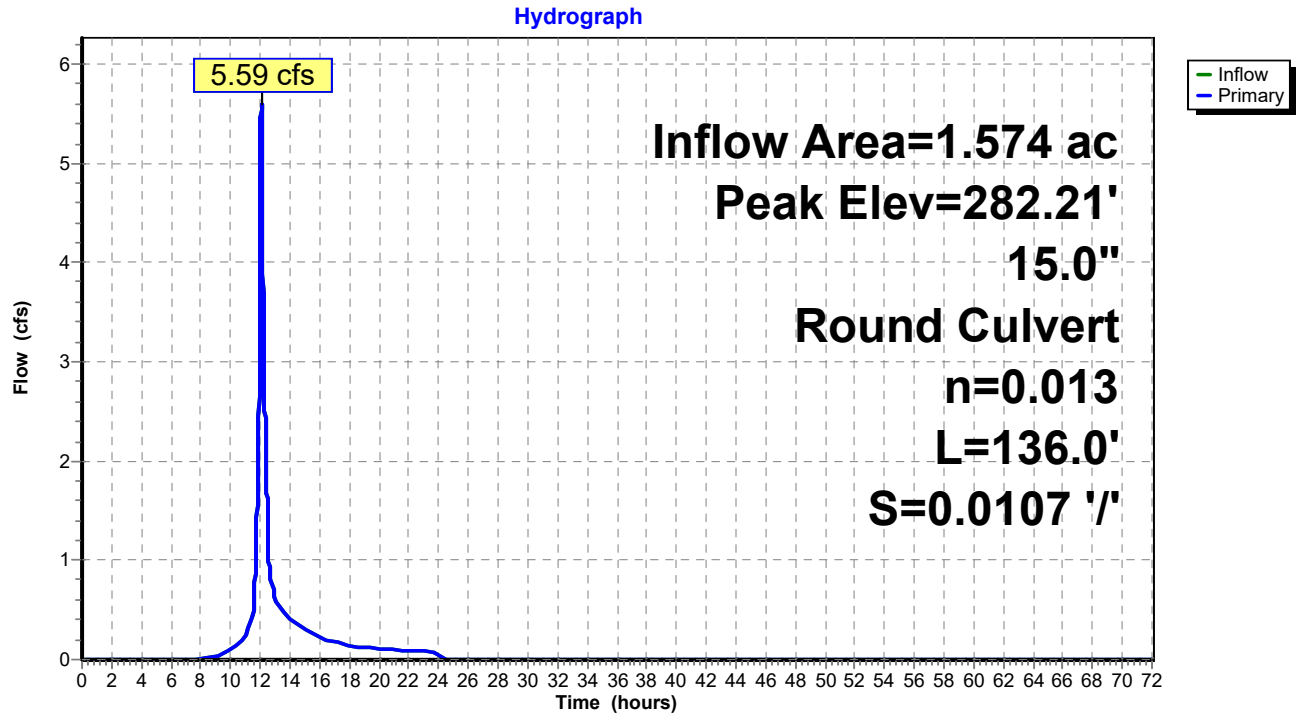
Inflow Area = 1.574 ac, 27.23% Impervious, Inflow Depth = 3.39" for 50-YR event
Inflow = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af
Outflow = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af, Atten= 0%, Lag= 0.0 min
Primary = 5.59 cfs @ 12.06 hrs, Volume= 0.445 af
Routed to Pond 3.2P : Stormwater Management Pond "A" Infiltration Basin

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 282.21' @ 12.06 hrs
Flood Elev= 284.98'

Device	Routing	Invert	Outlet Devices
#1	Primary	280.15'	**15.0" Round Culvert** L= 136.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 280.15' / 278.70' S= 0.0107 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=5.59 cfs @ 12.06 hrs HW=282.21' (Free Discharge)
1=Culvert (Inlet Controls 5.59 cfs @ 4.55 fps)

Pond DMH-1: DMH-1



Summary for Pond DMH-2: DMH-2

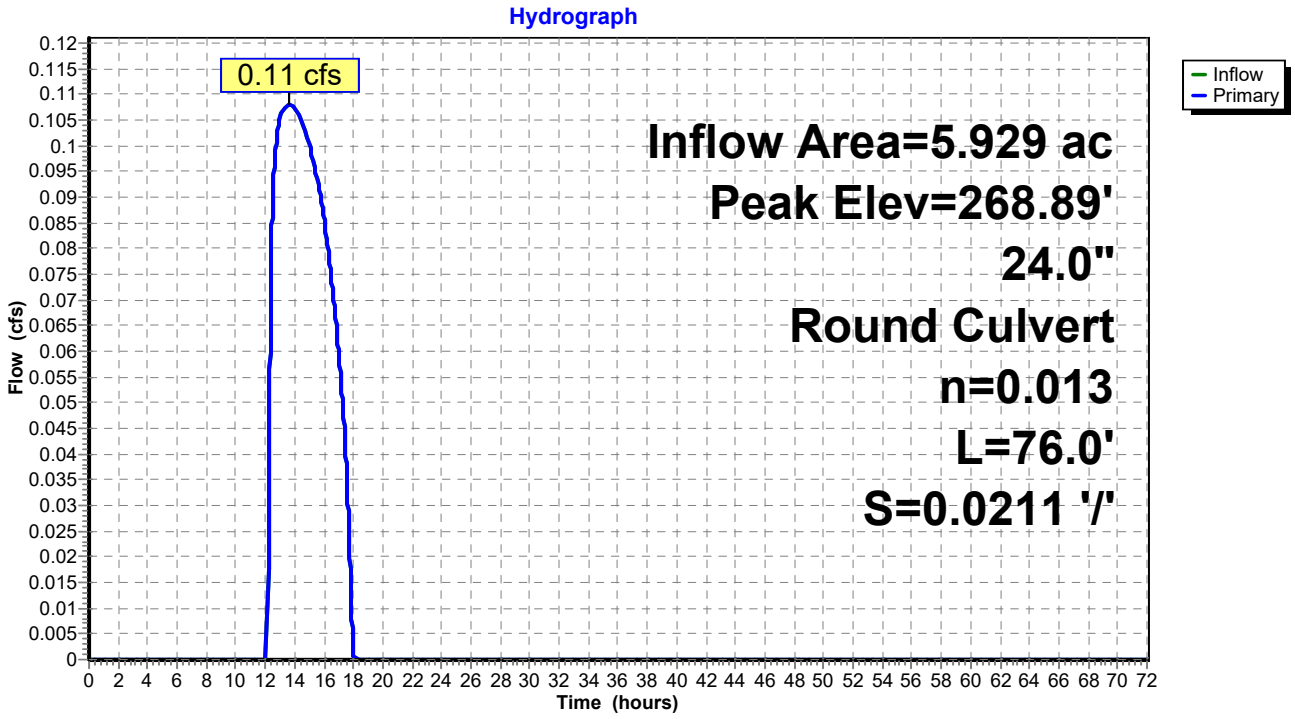
Inflow Area = 5.929 ac, 10.98% Impervious, Inflow Depth = 0.08" for 50-YR event
Inflow = 0.11 cfs @ 13.68 hrs, Volume= 0.040 af
Outflow = 0.11 cfs @ 13.68 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 13.68 hrs, Volume= 0.040 af
Routed to Reach OP-1 : Observation Point 1

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 268.89' @ 13.68 hrs
Flood Elev= 276.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	268.75'	**24.0" Round Culvert** L= 76.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 268.75' / 267.15' S= 0.0211 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.10 cfs @ 13.68 hrs HW=268.89' (Free Discharge)
1=Culvert (Inlet Controls 0.10 cfs @ 1.02 fps)

Pond DMH-2: DMH-2



Section 3.0: Drainage Area Plans

DRN-1: Existing Conditions
DRN-2: Developed Conditions