

STORMWATER MANAGEMENT, WATER QUALITY AND GROUNDWATER RECHARGE ANALYSIS

For

Hope Presbyterian Church Proposed Sanctuary Addition

Block 5401, Lot 118
140 Denow Road
Township of Lawrence
Mercer County, NJ

Prepared by:



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1. Site Description & Project Overview

The subject site is identified as Block 5401, Lot 118 on the Township of Lawrence Tax Map Sheet #54. The site is located with frontage on Denow Road in the Township of Lawrence, Mercer County, New Jersey. The southern portion of the subject site is currently developed with an existing 6,586 SF Presbyterian Church, parking area and open space. The northern portion of the subject site is undeveloped, consisting of wooded areas and a delineated wetland area. The property is bounded to the north and east by residential uses, and to the south and west by commercial uses (The Learning Center and Montessori Preschool).

The proposed project consists of the development of a 4,566 SF sanctuary expansion, as well as the addition of a 186 SF foyer to the existing building. The expanded building will have a total footprint of ±11,338 SF, with 0.82 acres of motor vehicle surface, 1.26 acres of impervious surface, and 1.48 acres of land disturbance. The proposed project will also include associated site improvements including parking areas, landscaping, lighting, stormwater management facilities, and utilities.

2. Design Methodology

This report has been prepared to define and analyze the stormwater drainage conditions that would occur as a result of the development of the subject site. Based upon the fact that the proposed development will result in more than one (1) acre of land disturbance, increase impervious coverage by more than ¼ acre, and increase motor vehicle surfaces by more than ¼ acre, this project is classified as a “major development” as defined in NJAC 7:8. Therefore, the proposed development has been designed to meet the stormwater runoff quantity, quality, and groundwater recharge standards, as set forth by the Township of Lawrence Land Use Ordinance and NJAC 7:8.

The following documents and data were used in the support of the design of the project:

- Boundary and Topographic Survey, prepared by Carroll Engineering, dated 09/03/2025
- Preliminary & Final Major Site Plans, prepared by our office, dated 05/19/26
- Preliminary Stormwater Management Testing, prepared by Geo-Technology Associates, Inc., dated 04/28/2026
- Field Reconnaissance on 03/19/2026
- NRCS Web Soil Survey
- NJDEP Stormwater Management Best Management Practices Manual

The hydrology for the site was calculated using the NRCS Runoff Equation and Dimensionless Unit Hydrograph as noted in Part 630, Hydrology National Engineering Handbook. The following particular references were used:

- Curve Numbers were established via Chapter 9 – Hydrologic Soil-Cover Complexes
- Time of Concentrations were calculated in accordance with Chapter 15
- Rainfall Distributions are based on NOAA Type C rainfall distribution
- The Standard Unit Hydrograph was utilized
- The rainfall depths are based on Mercer County NOAA Atlas 14 Data and adjusted per NJAC 7:8-5.7 Tables 5-5 and 5-6 as noted below:

Return Period	NOAA Atlas 14 Rainfall Depth (inches)	Current Adjusted Rainfall Depth (inches)	Projected Adjusted Rainfall Depth (inches)
2 Year Storm	3.31	3.34	3.84
10 Year Storm	4.98	5.11	5.86
100 Year Storm	8.19	8.66	11.33

Based upon the Mercer County Soil Survey, the soil types native to the site include:

Soil Type	Soil Type Name	Hydrologic Soil Group
BucB	Bucks silt loam, 2 to 6 percent slopes	B
BucB2	Bucks silt loam, 2 to 6 percent slopes, eroded	B
DOZA	Doylestown and Reaville variant silt loams, 0 to 2 percent slopes	D
RehB	Reaville silt loam, 2 to 6 percent slopes	C

Based on the methodology and data noted above, a hydrologic evaluation of the NJDEP Water Quality, 2, 10, and 100-year storm events was prepared.

This report will address compliance with the following standards:

- Groundwater Recharge Standards (NJAC 7:8-5.4)
- Stormwater Runoff Quality Standards (NJAC 7:8-5.5)
- Stormwater Runoff Quantity Standards (NJAC 7:8-5.6)
- Calculation of Stormwater Runoff (NJAC 7:8-5.7)
- Green Infrastructure Standards (NJAC 7:8-5.3)

3. **Existing Drainage Conditions**

The area to be analyzed consists of approximately 2.10 acres and is comprised of an existing building and associated parking area, open space and wooded area. Currently, stormwater runoff generated by the existing site drains via a stormwater conveyance system to the existing stormwater basin on-site. Runoff detained in the existing basin is released through an outlet control structure to the existing wetlands to the south corner of the property. The subject site has been evaluated with the following drainage sub-watershed areas as depicted on the Existing Drainage Area Map included in the Appendix of this report.

Point of Analysis #1

DA 1: Existing Basin: This area consists of 1.570 acres in the southwestern portion of the site and off-site areas to the west which includes a building, sidewalks, parking, an existing stormwater basin and open space areas. Under existing conditions, stormwater runoff generated by this area flows via a stormwater conveyance system and discharges into the existing basin. Runoff detained in the existing basin is released at a controlled rate through an outlet control structure to the wetlands at the southern corner of the property.

DA 2: Undetained: This area consists of 0.530 acres in the southern portion of the site which includes sidewalks, a canopy and open space areas. Under existing conditions, stormwater runoff generated by this area flows overland to the wetlands on the southern corner of the property.

Existing Conditions Input Summary Table

Drainage Area Name	Drainage Area (acres)	Time of Concentration (minutes)	Curve Number (CN)
DA 1 - Impervious	0.570	3.1	98
DA 1 - Pervious	1.000	5.1	80
DA 1 Total	1.57	-	-
DA 2 - Impervious	0.020	1.0	98
DA 2 - Pervious	0.510	13.7	80
DA 2 Total	0.53	-	-
POA #1: DA Total	2.10	-	-

Existing Conditions Flow Summary Table

Drainage Area Name	Current Adjusted Rainfall Conditions			Projected Adjusted Rainfall Conditions		
	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₁₀₀ (CFS)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₁₀₀ (CFS)
DA 1 - Impervious	2.17	3.34	5.68	2.51	3.85	7.47
DA 1 - Pervious	1.96	3.82	7.75	2.49	4.70	10.84
DA 1 Total	1.79	2.28	11.40	1.95	4.02	16.33
DA 2 - Impervious	0.08	0.12	0.20	0.09	0.14	0.27
DA 2 - Pervious	0.74	1.46	2.98	0.96	1.84	4.26
DA 2 Total	0.76	1.49	3.05	0.99	1.88	4.35
POA 1 Total	2.54	3.76	14.04	2.94	5.90	20.04

4. Proposed Drainage Conditions

The proposed development will incorporate one (1) small-scale bioretention basin with underdrains and one (1) pervious pavement system into the layout of the facility for stormwater management. The basins are designed to detain and treat stormwater runoff generated by the development in order to meet the stormwater management requirements. The proposed site conditions have been evaluated using the following drainage sub-watershed areas as depicted on the Proposed Drainage Area Map included in the Appendix of this report.

Point of Analysis #1

DA 1: Proposed Basin: This area consists of 1.100 acres in the southwestern portion of the site which includes the building, sidewalks, proposed parking and open space areas. Under proposed conditions, stormwater runoff generated by this area flows through a stormwater conveyance system and discharges into the Proposed Basin. Runoff detained in the Proposed Basin is released at a controlled rate through an outlet control structure to the wetlands at the southern corner of the property.

DA 2: Proposed Pervious Pavement: This area consists of 0.800 acres in the southwestern portion of the site which includes the proposed sidewalks and parking areas. Under proposed conditions, stormwater runoff generated by this area flows through a stormwater conveyance

system and discharges into the Pervious Pavement Basin. Runoff detained in the Pervious Pavement Basin is released at a controlled rate through an outlet control structure to the wetlands at the southern corner of the property.

DA 3: Undetained: This area consists of 0.200 acres in the southern portion of the site which includes sidewalks, a canopy and open space areas. Under existing conditions, stormwater runoff generated by this area flows overland to the wetlands on the southern corner of the property.

Proposed Conditions Input Summary Table

Drainage Area Name	Drainage Area (acres)	Time of Concentration (minutes)	Curve Number (CN)
DA 1 - Impervious	0.430	3.7	98
DA 1 - Pervious	0.670	10.5	80
DA Prop Basin	1.100	--	--
DA 2 - Impervious	0.710	1.5	98
DA 2 - Pervious	0.090	7.2	80
DA Pervious Pavement	0.800	--	--
DA 3 - Impervious	0.030	1.6	98
DA 3 - Pervious	0.170	10.4	80
DA Undetained	0.200	--	--
POA 1 Total	2.10	--	--

Proposed Conditions Flow Summary Table

Drainage Area Name	Current Adjusted Rainfall Conditions			Projected Adjusted Rainfall Conditions		
	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₁₀₀ (CFS)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₁₀₀ (CFS)
DA 1 - Impervious	1.60	2.47	4.20	1.86	2.85	5.52
DA 1 - Pervious	1.10	2.17	4.42	1.42	2.71	6.27
DA 1 Total	0.68	1.50	7.58	0.92	2.98	10.43
DA 2 - Impervious	2.76	4.25	7.23	3.19	4.89	9.48
DA 2 - Pervious	0.17	0.33	0.67	0.22	0.41	0.94
DA 2 Total	0.23	0.31	1.14	0.26	0.34	2.89
DA 3 - Impervious	0.12	0.18	0.30	0.13	0.21	0.40
DA 3 - Pervious	0.28	0.55	1.13	0.36	0.69	1.60
DA 3 Total	0.35	0.67	1.32	0.45	0.83	1.87
POA 1 Total	1.06	2.16	9.19	1.42	3.83	14.70

5. Stormwater Management System Design

A summary of each basin's water surface elevation (WSEL) and outflow rates for the Water Quality, 2-, 10-, and 100-year storm event for both current and projected conditions are provided below. These WSELs and outflows assume normal operating conditions for each basin. In addition, the emergency spillway water surface elevation and outflow for the projected 10-year storm event have been calculated assuming the outlet structure has failed and there is no storage below the emergency spillway. Routing calculations for the basins and emergency spillway calculations are included in the Appendix.

Proposed Basin Summary Table

Storm Event (years)	Water Surface Elevation (ft)	Outflow (CFS)
Water Quality	134.30	0.00
Current – 2	135.09	0.68
Current – 10	135.90	1.50
Current – 100	136.23	7.58
Projected – 2	135.33	0.92
Projected – 10	136.08	2.98
Projected – 100	136.31	10.43

Pervious Pavement Summary Table

Storm Event (years)	Water Surface Elevation (ft)	Outflow (CFS)
Water Quality	132.73	0.12
Current – 2	133.43	0.23
Current – 10	134.22	0.31
Current – 100	135.49	1.14
Projected – 2	133.65	0.26
Projected – 10	134.55	0.34
Projected – 100	136.05	2.89

6. Green Infrastructure Compliance

The basins noted above have been designed to comply with the stormwater runoff quantity, quality, and groundwater recharge requirements for the proposed development as applicable. Each basin has been designed in accordance with NJAC 7:8 and the New Jersey Stormwater Best Management Practices. The tables below summarize the design considerations for each basin, see the Site Plan details for additional information.

Pervious Pavement (Table 5-1 – Quantity, Quality, & Recharge)

Design Criteria	Required	Provided
Pavement Area	--	9,150 SF
Total Drainage Area	--	34,848 SF (0.800 Ac)
Max. Area of Additional Flow	≤ 3 x Area of System	2.81:1
Infiltration Rate of Pavement	6.4 in/hr	> 6.4 in/hr
Max. Drain Time	72 hours	57.30 hours
Separation from SHWT	1 foot (Underdrain)	4.0 feet (TP-4)
Design Permeability Rate	Min. = 0.5 in/hr Max. = 10 in/hr	N/A

Small-Scale Bioretention Basins (Table 5-1 – Quantity, Quality, & Recharge)

Design Criteria	Required	Provided
Total Drainage Area	--	1.10 acres
Min. Storage Volume below 1 st Orifice	WQ Volume 1,788 CF or 0.041 Ac-FT	2,285 CF/0.052 Ac-Ft
Depth of Soil Bed	18 in. Terrestrial Forested Community	18 in. Terrestrial Forested Community
Max. Contributory DA	2.5 acres	1.03 acres
Max. Drain Time	72 hours	47.50 hours
Separation from SHWT	1 foot (Underdrain) 2 feet (Infiltration)	5.5 feet (TP-2)
Design Permeability Rate	Min. = 0.5 in/hr Max. = 10 in/hr	N/A
Max. Depth of WQ Storm	1 foot Basin 1.5 feet Swale	0.80 Feet

7. Water Quantity Control Compliance

The site has been designed to meet the flow reduction requirements as noted in NJAC7:8-5.6(b)3. The point of analysis has been identified on the Drainage Area Maps as previously described. Below is a summary table demonstrating compliance with the flow reduction requirements.

POA 1 Total

Storm Event	Existing Peak Flow Rate (cfs)	Allowable Percentage of Flow	Allowable Peak Flow Rate (cfs)	Proposed Peak Flow Rate (cfs)
Current 2-year	2.54	50%	1.27	1.06
Current 10-year	3.76	75%	2.82	2.16
Current 100-year	14.04	80%	11.23	9.19
Projected 2-year	2.94	50%	1.47	1.42
Projected 10-year	5.90	75%	4.43	3.83
Projected 100-year	20.04	80%	16.03	14.70

8. Water Quality Compliance

In accordance with NJAC 7:8-5.5, stormwater quality standards are applicable when a major development results in an increase of one-quarter acre or more of regulated motor vehicle surface. The proposed development utilizes the following green infrastructure BMPs in order to meet the required 80% TSS removal rate as annual average:

Green Infrastructure BMP	TSS Removal Rate per BMP Manual
Small-Scale Bioretention Basin	80%
Pervious Pavement System	80%

Supporting calculations are included in the Appendix of this report.

9. Groundwater Recharge Compliance

Geo-Technology Associates, Inc. performed numerous test pits within the site to establish seasonal high groundwater table characteristics and percolation tests were conducted for on-site soils to confirm soil classification per the County Soil Survey. The native soils below the surficial materials consisted predominantly of residual soils (silt loam, clay, sandy clay, sandy clay loam, and sandy loam) overlying highly-weathered shale bedrock, which became more competent with depth. Highly-weathered shale bedrock was encountered in all of the explorations at depths ranging from about 3½ to 8½ feet below the existing surface grades. Preliminary in-situ infiltration tests were performed adjacent to each of the test pits using a double-ring infiltrometer in general accordance with Chapter 12 of the NJDEP Stormwater Best Management Practices Manual (Chapter 12). The preliminary infiltration testing performed for this study resulted in measured infiltration rates ranging from about 0.0 to 0.2 inches per hour, which is consistent with hydrologic soil group (HSG) "D" as specified in the NJ BMP Manual. As such, for the purposes of demonstrating that the project site and its stormwater management measures maintain 100 percent of the average annual pre-construction groundwater recharge volume for the site, the existing soil type was amended to "Urban" within the appended Groundwater Recharge Spreadsheet. The spreadsheet shows that the proposed recharge volume (0 CF) equals the existing recharge volume (0 CF); therefore, satisfying the groundwater recharge requirement in accordance with NJAC 7:8-5.4(b)1.i.

10. Storm Sewer Design

The proposed stormwater management collection system has designed to have hydraulic capacity for the 25-year storm event. The Rational Method was used to determine inflow rates to each structure and Manning's Equation was used to establish pipe capacity. In accordance with the NJDEP BMP Manual Chapter 5, weighted runoff coefficients were computed for each drainage area based on land cover and hydrologic soil group. A minimum time of concentration of ten minutes was assumed for each area. Rainfall intensity was based upon the Trenton Rainfall intensity curve. Supporting calculations and the Inlet Drainage Area Map can be found in the appendix.

11. Conclusion

The proposed development has been designed with provisions for the safe and efficient control of stormwater runoff in a manner that will not adversely impact the existing drainage patterns, adjacent roadways, or adjacent parcels. In addition, the proposed development satisfies the runoff quantity, quality and groundwater recharge requirements set forth by the Township of Lawrence Land Use Ordinance and NJAC 7:8 through the use of the proposed stormwater management system. With this stated, it is evident that the proposed development will not have a negative impact on the existing drainage conditions, water quality or groundwater recharge on-site or within the vicinity of the subject site.

APPENDIX

NRCS WEB SOIL SURVEY

Hydrologic Soil Group—Mercer County, New Jersey



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

3/19/2026
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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 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Mercer County, New Jersey
 Survey Area Data: Version 21, Aug 28, 2025

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

Date(s) aerial images were photographed: Jun 4, 2022—Jul 22, 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
BucB	Bucks silt loam, 2 to 6 percent slopes	B	2.3	17.9%
BucB2	Bucks silt loam, 2 to 6 percent slopes, eroded	B	1.1	9.0%
DOZA	Doylestown and Reaville variant silt loams, 0 to 2 percent slopes	D	6.3	49.5%
RehB	Reaville silt loam, 2 to 6 percent slopes	C	3.0	23.6%
Totals for Area of Interest			12.7	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.

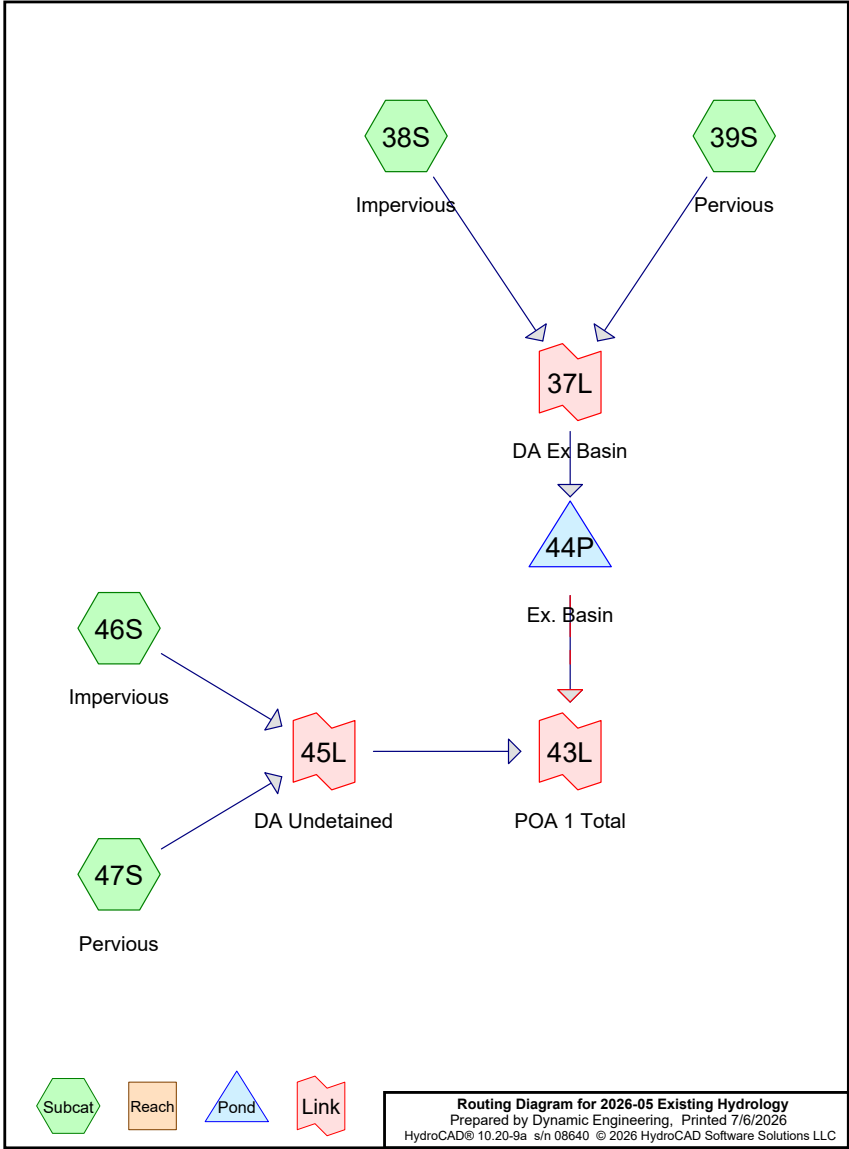
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

**HYDROGRAPH SUMMARY REPORTS – EXISTING 2,
10 & 100-YEAR AND PROPOSED CONDITIONS WQ, 2,
10 & 100-YEAR**



2026-05 Existing Hydrology

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2-Year-Current	NOAA 24-hr	C	Default	24.00	1	3.34	2	3.34
2	2-Year-Projected	NOAA 24-hr	C	Default	24.00	1	3.84	2	3.84
3	10-Year-Current	NOAA 24-hr	C	Default	24.00	1	5.11	2	3.34
4	10-Year-Projected	NOAA 24-hr	C	Default	24.00	1	5.86	2	3.84
5	100-Year-Current	NOAA 24-hr	C	Default	24.00	1	8.66	2	3.34
6	100-Year-Projected	NOAA 24-hr	C	Default	24.00	1	11.33	2	3.84

2026-05 Existing Hydrology

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.510	80	>75% Grass cover, Good, HSG D (39S, 47S)
0.590	98	Paved parking, HSG D (38S, 46S)
2.100	85	TOTAL AREA

2026-05 Existing Hydrology

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
2.100	HSG D	38S, 39S, 46S, 47S
0.000	Other	
2.100		TOTAL AREA

2026-05 Existing Hydrology

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	1.510	0.000	1.510	>75% Grass cover, Good	39S, 47S
0.000	0.000	0.000	0.590	0.000	0.590	Paved parking	38S, 46S
0.000	0.000	0.000	2.100	0.000	2.100	TOTAL AREA	

2026-05 Existing Hydrology

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	38S	0.00	0.00	161.0	0.0050	0.011	0.0	15.0	0.0	
2	39S	0.00	0.00	60.0	0.0055	0.011	0.0	15.0	0.0	

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=3.11" Flow Length=358' Tc=3.2 min CN=98 Runoff=2.17 cfs 0.148 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=1.51" Flow Length=228' Tc=5.4 min CN=80 Runoff=1.96 cfs 0.126 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=3.11" Flow Length=97' Tc=1.1 min CN=98 Runoff=0.08 cfs 0.005 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=1.51" Flow Length=189' Slope=0.0200 '/' Tc=14.7 min CN=80 Runoff=0.74 cfs 0.064 af
Pond 44P: Ex. Basin	Peak Elev=135.36' Storage=0.040 af Inflow=4.02 cfs 0.273 af Primary=1.79 cfs 0.273 af Secondary=0.00 cfs 0.000 af Outflow=1.79 cfs 0.273 af
Link 37L: DA Ex Basin	Inflow=4.02 cfs 0.273 af Primary=4.02 cfs 0.273 af
Link 43L: POA 1 Total	Inflow=2.54 cfs 0.342 af Primary=2.54 cfs 0.342 af
Link 45L: DA Undetained	Inflow=0.76 cfs 0.069 af Primary=0.76 cfs 0.069 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.343 af Average Runoff Depth = 1.96"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.17 cfs @ 12.09 hrs, Volume= 0.148 af, Depth= 3.11"
Routed to Link 37L : DA Ex Basin

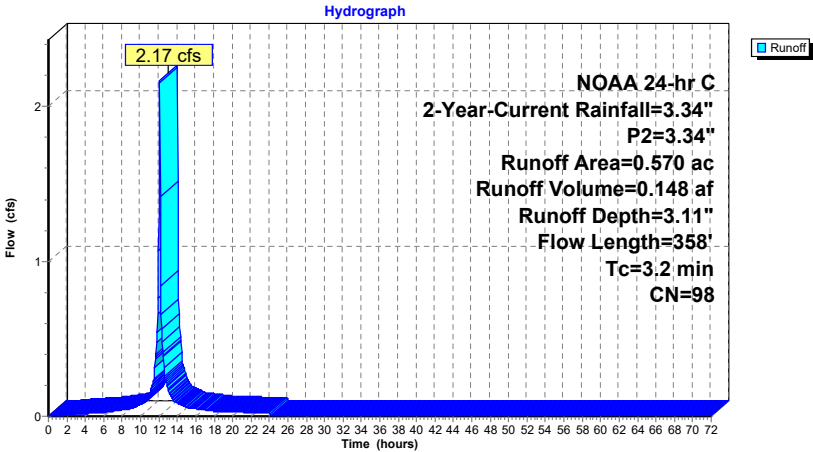
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.2	358	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	3.11	0.00
1.00	0.04	0.00	0.00	53.00	3.34	3.11	0.00
2.00	0.08	0.01	0.01	54.00	3.34	3.11	0.00
3.00	0.12	0.02	0.01	55.00	3.34	3.11	0.00
4.00	0.16	0.05	0.02	56.00	3.34	3.11	0.00
5.00	0.21	0.08	0.02	57.00	3.34	3.11	0.00
6.00	0.26	0.12	0.02	58.00	3.34	3.11	0.00
7.00	0.33	0.17	0.03	59.00	3.34	3.11	0.00
8.00	0.40	0.23	0.04	60.00	3.34	3.11	0.00
9.00	0.49	0.31	0.05	61.00	3.34	3.11	0.00
10.00	0.61	0.42	0.08	62.00	3.34	3.11	0.00
11.00	0.80	0.60	0.14	63.00	3.34	3.11	0.00
12.00	1.59	1.37	1.31	64.00	3.34	3.11	0.00
13.00	2.54	2.31	0.17	65.00	3.34	3.11	0.00
14.00	2.73	2.50	0.09	66.00	3.34	3.11	0.00
15.00	2.85	2.62	0.06	67.00	3.34	3.11	0.00
16.00	2.94	2.71	0.05	68.00	3.34	3.11	0.00
17.00	3.01	2.78	0.04	69.00	3.34	3.11	0.00
18.00	3.08	2.84	0.03	70.00	3.34	3.11	0.00
19.00	3.13	2.90	0.03	71.00	3.34	3.11	0.00
20.00	3.18	2.94	0.03	72.00	3.34	3.11	0.00
21.00	3.22	2.99	0.03				
22.00	3.26	3.03	0.02				
23.00	3.30	3.07	0.02				
24.00	3.34	3.11	0.02				
25.00	3.34	3.11	0.00				
26.00	3.34	3.11	0.00				
27.00	3.34	3.11	0.00				
28.00	3.34	3.11	0.00				
29.00	3.34	3.11	0.00				
30.00	3.34	3.11	0.00				
31.00	3.34	3.11	0.00				
32.00	3.34	3.11	0.00				
33.00	3.34	3.11	0.00				
34.00	3.34	3.11	0.00				
35.00	3.34	3.11	0.00				
36.00	3.34	3.11	0.00				
37.00	3.34	3.11	0.00				
38.00	3.34	3.11	0.00				
39.00	3.34	3.11	0.00				
40.00	3.34	3.11	0.00				
41.00	3.34	3.11	0.00				
42.00	3.34	3.11	0.00				
43.00	3.34	3.11	0.00				
44.00	3.34	3.11	0.00				
45.00	3.34	3.11	0.00				
46.00	3.34	3.11	0.00				
47.00	3.34	3.11	0.00				
48.00	3.34	3.11	0.00				
49.00	3.34	3.11	0.00				
50.00	3.34	3.11	0.00				
51.00	3.34	3.11	0.00				

Summary for Subcatchment 39S: Pervious

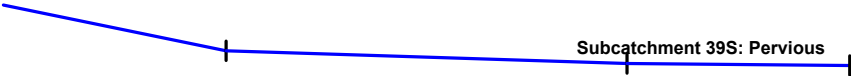
[49] Hint: Tc<2dt may require smaller dt

Runoff = 1.96 cfs @ 12.13 hrs, Volume= 0.126 af, Depth= 1.51"
Routed to Link 37L : DA Ex Basin

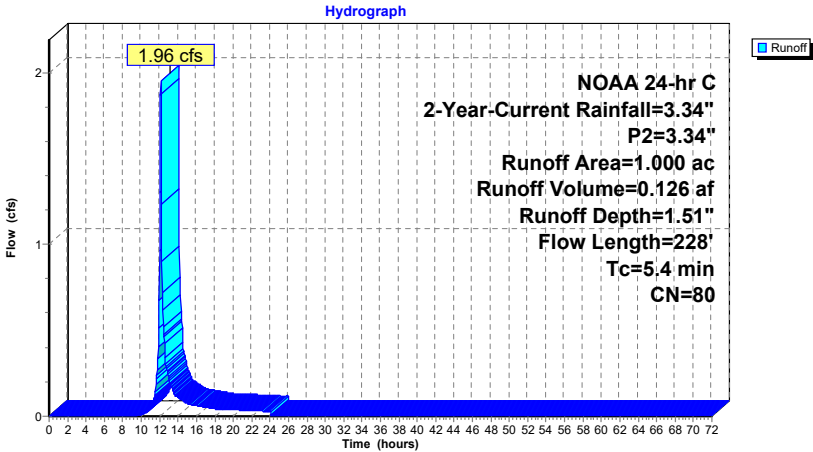
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description			
1.000	80	>75% Grass cover, Good, HSG D			
1.000		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.1300	0.23		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.8	108	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.4	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	1.51	0.00
1.00	0.04	0.00	0.00	53.00	3.34	1.51	0.00
2.00	0.08	0.00	0.00	54.00	3.34	1.51	0.00
3.00	0.12	0.00	0.00	55.00	3.34	1.51	0.00
4.00	0.16	0.00	0.00	56.00	3.34	1.51	0.00
5.00	0.21	0.00	0.00	57.00	3.34	1.51	0.00
6.00	0.26	0.00	0.00	58.00	3.34	1.51	0.00
7.00	0.33	0.00	0.00	59.00	3.34	1.51	0.00
8.00	0.40	0.00	0.00	60.00	3.34	1.51	0.00
9.00	0.49	0.00	0.00	61.00	3.34	1.51	0.00
10.00	0.61	0.00	0.01	62.00	3.34	1.51	0.00
11.00	0.80	0.03	0.05	63.00	3.34	1.51	0.00
12.00	1.59	0.33	0.96	64.00	3.34	1.51	0.00
13.00	2.54	0.92	0.22	65.00	3.34	1.51	0.00
14.00	2.73	1.05	0.11	66.00	3.34	1.51	0.00
15.00	2.85	1.14	0.07	67.00	3.34	1.51	0.00
16.00	2.94	1.21	0.06	68.00	3.34	1.51	0.00
17.00	3.01	1.26	0.05	69.00	3.34	1.51	0.00
18.00	3.08	1.31	0.04	70.00	3.34	1.51	0.00
19.00	3.13	1.35	0.04	71.00	3.34	1.51	0.00
20.00	3.18	1.38	0.04	72.00	3.34	1.51	0.00
21.00	3.22	1.42	0.03				
22.00	3.26	1.45	0.03				
23.00	3.30	1.48	0.03				
24.00	3.34	1.51	0.03				
25.00	3.34	1.51	0.00				
26.00	3.34	1.51	0.00				
27.00	3.34	1.51	0.00				
28.00	3.34	1.51	0.00				
29.00	3.34	1.51	0.00				
30.00	3.34	1.51	0.00				
31.00	3.34	1.51	0.00				
32.00	3.34	1.51	0.00				
33.00	3.34	1.51	0.00				
34.00	3.34	1.51	0.00				
35.00	3.34	1.51	0.00				
36.00	3.34	1.51	0.00				
37.00	3.34	1.51	0.00				
38.00	3.34	1.51	0.00				
39.00	3.34	1.51	0.00				
40.00	3.34	1.51	0.00				
41.00	3.34	1.51	0.00				
42.00	3.34	1.51	0.00				
43.00	3.34	1.51	0.00				
44.00	3.34	1.51	0.00				
45.00	3.34	1.51	0.00				
46.00	3.34	1.51	0.00				
47.00	3.34	1.51	0.00				
48.00	3.34	1.51	0.00				
49.00	3.34	1.51	0.00				
50.00	3.34	1.51	0.00				
51.00	3.34	1.51	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.08 cfs @ 12.06 hrs, Volume= 0.005 af, Depth= 3.11"
Routed to Link 45L : DA Undetained

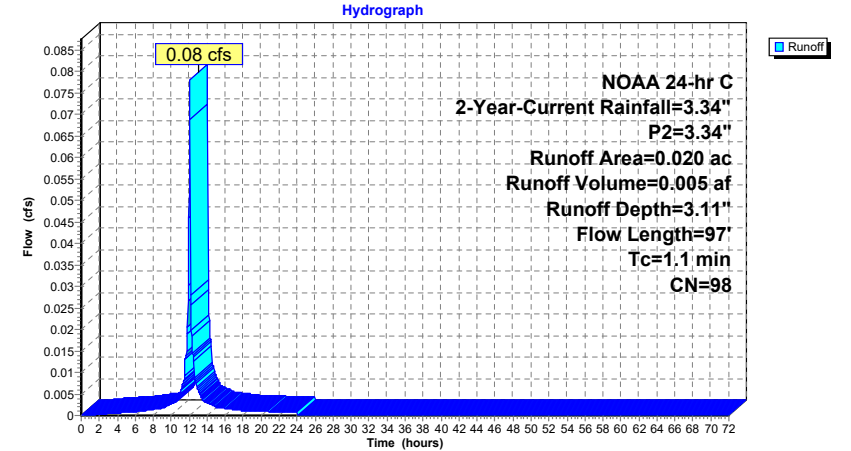
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	16	0.0050	0.56		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	97	Total			



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	3.11	0.00
1.00	0.04	0.00	0.00	53.00	3.34	3.11	0.00
2.00	0.08	0.01	0.00	54.00	3.34	3.11	0.00
3.00	0.12	0.02	0.00	55.00	3.34	3.11	0.00
4.00	0.16	0.05	0.00	56.00	3.34	3.11	0.00
5.00	0.21	0.08	0.00	57.00	3.34	3.11	0.00
6.00	0.26	0.12	0.00	58.00	3.34	3.11	0.00
7.00	0.33	0.17	0.00	59.00	3.34	3.11	0.00
8.00	0.40	0.23	0.00	60.00	3.34	3.11	0.00
9.00	0.49	0.31	0.00	61.00	3.34	3.11	0.00
10.00	0.61	0.42	0.00	62.00	3.34	3.11	0.00
11.00	0.80	0.60	0.01	63.00	3.34	3.11	0.00
12.00	1.59	1.37	0.05	64.00	3.34	3.11	0.00
13.00	2.54	2.31	0.01	65.00	3.34	3.11	0.00
14.00	2.73	2.50	0.00	66.00	3.34	3.11	0.00
15.00	2.85	2.62	0.00	67.00	3.34	3.11	0.00
16.00	2.94	2.71	0.00	68.00	3.34	3.11	0.00
17.00	3.01	2.78	0.00	69.00	3.34	3.11	0.00
18.00	3.08	2.84	0.00	70.00	3.34	3.11	0.00
19.00	3.13	2.90	0.00	71.00	3.34	3.11	0.00
20.00	3.18	2.94	0.00	72.00	3.34	3.11	0.00
21.00	3.22	2.99	0.00				
22.00	3.26	3.03	0.00				
23.00	3.30	3.07	0.00				
24.00	3.34	3.11	0.00				
25.00	3.34	3.11	0.00				
26.00	3.34	3.11	0.00				
27.00	3.34	3.11	0.00				
28.00	3.34	3.11	0.00				
29.00	3.34	3.11	0.00				
30.00	3.34	3.11	0.00				
31.00	3.34	3.11	0.00				
32.00	3.34	3.11	0.00				
33.00	3.34	3.11	0.00				
34.00	3.34	3.11	0.00				
35.00	3.34	3.11	0.00				
36.00	3.34	3.11	0.00				
37.00	3.34	3.11	0.00				
38.00	3.34	3.11	0.00				
39.00	3.34	3.11	0.00				
40.00	3.34	3.11	0.00				
41.00	3.34	3.11	0.00				
42.00	3.34	3.11	0.00				
43.00	3.34	3.11	0.00				
44.00	3.34	3.11	0.00				
45.00	3.34	3.11	0.00				
46.00	3.34	3.11	0.00				
47.00	3.34	3.11	0.00				
48.00	3.34	3.11	0.00				
49.00	3.34	3.11	0.00				
50.00	3.34	3.11	0.00				
51.00	3.34	3.11	0.00				

Summary for Subcatchment 47S: Pervious

Runoff = 0.74 cfs @ 12.24 hrs, Volume= 0.064 af, Depth= 1.51"

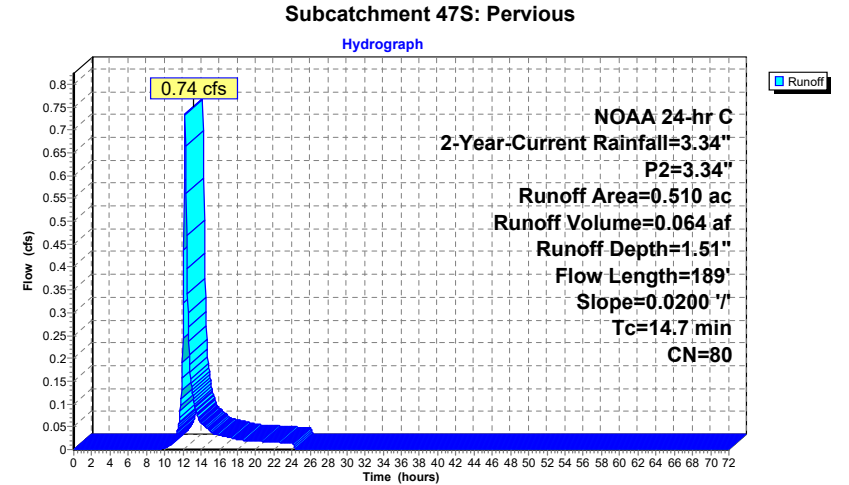
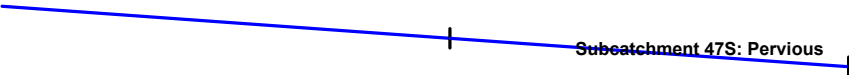
Routed to Link 45L: DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description				
0.510	80	>75% Grass cover, Good, HSG D				
0.510		100.00% Pervious Area				

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	100	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.7	189	Total			



2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	1.51	0.00
1.00	0.04	0.00	0.00	53.00	3.34	1.51	0.00
2.00	0.08	0.00	0.00	54.00	3.34	1.51	0.00
3.00	0.12	0.00	0.00	55.00	3.34	1.51	0.00
4.00	0.16	0.00	0.00	56.00	3.34	1.51	0.00
5.00	0.21	0.00	0.00	57.00	3.34	1.51	0.00
6.00	0.26	0.00	0.00	58.00	3.34	1.51	0.00
7.00	0.33	0.00	0.00	59.00	3.34	1.51	0.00
8.00	0.40	0.00	0.00	60.00	3.34	1.51	0.00
9.00	0.49	0.00	0.00	61.00	3.34	1.51	0.00
10.00	0.61	0.00	0.00	62.00	3.34	1.51	0.00
11.00	0.80	0.03	0.02	63.00	3.34	1.51	0.00
12.00	1.59	0.33	0.24	64.00	3.34	1.51	0.00
13.00	2.54	0.92	0.13	65.00	3.34	1.51	0.00
14.00	2.73	1.05	0.06	66.00	3.34	1.51	0.00
15.00	2.85	1.14	0.04	67.00	3.34	1.51	0.00
16.00	2.94	1.21	0.03	68.00	3.34	1.51	0.00
17.00	3.01	1.26	0.03	69.00	3.34	1.51	0.00
18.00	3.08	1.31	0.02	70.00	3.34	1.51	0.00
19.00	3.13	1.35	0.02	71.00	3.34	1.51	0.00
20.00	3.18	1.38	0.02	72.00	3.34	1.51	0.00
21.00	3.22	1.42	0.02				
22.00	3.26	1.45	0.02				
23.00	3.30	1.48	0.02				
24.00	3.34	1.51	0.01				
25.00	3.34	1.51	0.00				
26.00	3.34	1.51	0.00				
27.00	3.34	1.51	0.00				
28.00	3.34	1.51	0.00				
29.00	3.34	1.51	0.00				
30.00	3.34	1.51	0.00				
31.00	3.34	1.51	0.00				
32.00	3.34	1.51	0.00				
33.00	3.34	1.51	0.00				
34.00	3.34	1.51	0.00				
35.00	3.34	1.51	0.00				
36.00	3.34	1.51	0.00				
37.00	3.34	1.51	0.00				
38.00	3.34	1.51	0.00				
39.00	3.34	1.51	0.00				
40.00	3.34	1.51	0.00				
41.00	3.34	1.51	0.00				
42.00	3.34	1.51	0.00				
43.00	3.34	1.51	0.00				
44.00	3.34	1.51	0.00				
45.00	3.34	1.51	0.00				
46.00	3.34	1.51	0.00				
47.00	3.34	1.51	0.00				
48.00	3.34	1.51	0.00				
49.00	3.34	1.51	0.00				
50.00	3.34	1.51	0.00				
51.00	3.34	1.51	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 2.09" for 2-Year-Current event
Inflow = 4.02 cfs @ 12.10 hrs, Volume= 0.273 af
Outflow = 1.79 cfs @ 12.23 hrs, Volume= 0.273 af, Atten= 56%, Lag= 7.6 min
Primary = 1.79 cfs @ 12.23 hrs, Volume= 0.273 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 135.36' @ 12.23 hrs Surf.Area= 0.058 ac Storage= 0.040 af

Plug-Flow detention time= 9.8 min calculated for 0.273 af (100% of inflow)
Center-of-Mass det. time= 8.8 min (803.9 - 795.2)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' 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) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.78 cfs @ 12.23 hrs HW=135.36' (Free Discharge)

1=Orifice/Grate (Orifice Controls 1.78 cfs @ 5.11 fps)

2=Orifice/Grate (Controls 0.00 cfs)

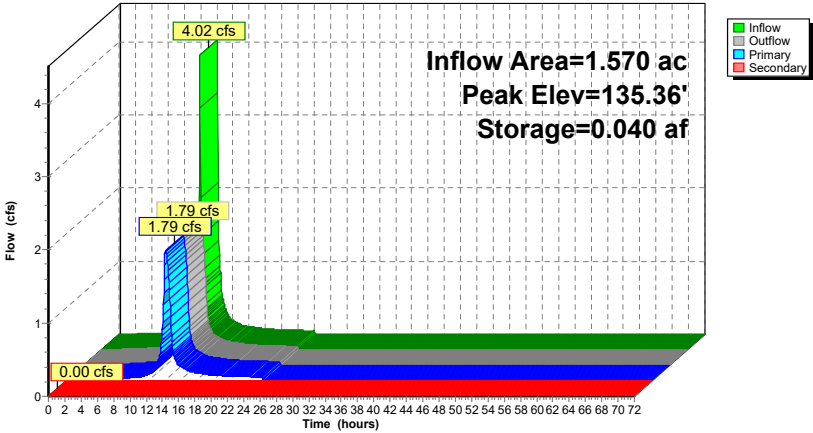
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)

3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)



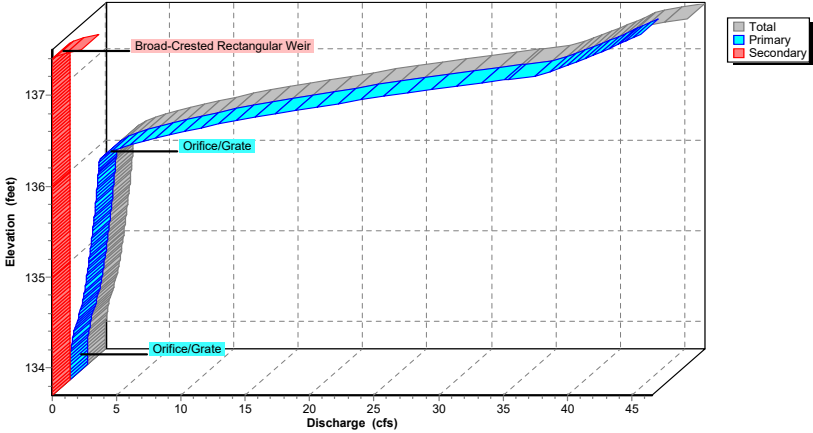
Pond 44P: Ex. Basin

Hydrograph



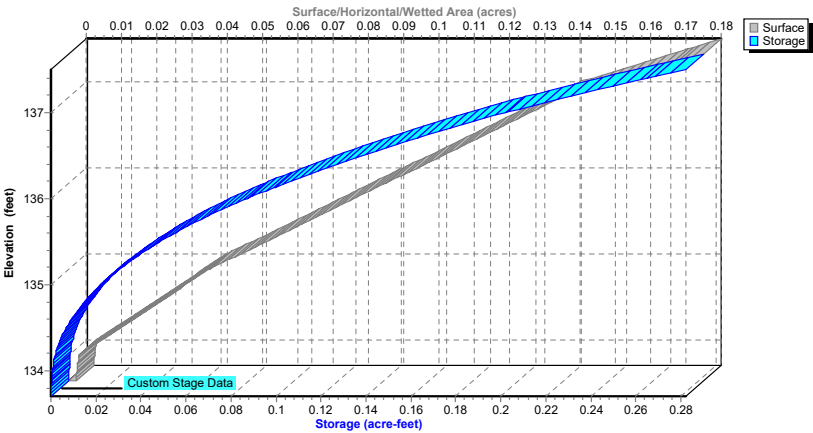
Pond 44P: Ex. Basin

Stage-Discharge



Pond 44P: Ex. Basin

Stage-Area-Storage



2026-05 Existing Hydrology

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Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.01	0.001	133.92	0.00	0.00	0.00
5.00	0.02	0.001	133.97	0.02	0.02	0.00
7.50	0.04	0.001	134.00	0.04	0.04	0.00
10.00	0.09	0.001	134.06	0.08	0.08	0.00
12.50	0.84	0.027	135.11	1.57	1.57	0.00
15.00	0.13	0.001	134.10	0.13	0.13	0.00
17.50	0.08	0.001	134.06	0.08	0.08	0.00
20.00	0.06	0.001	134.04	0.06	0.06	0.00
22.50	0.05	0.001	134.02	0.05	0.05	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

2026-05 Existing Hydrology

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

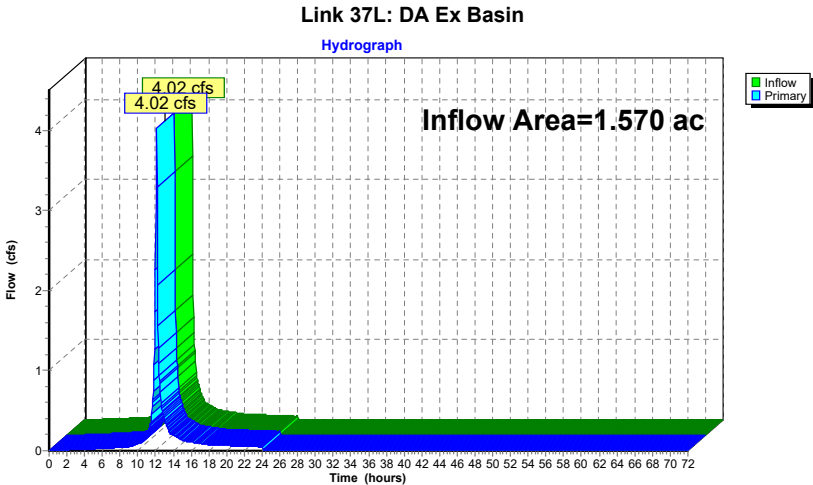
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 2.09" for 2-Year-Current event
Inflow = 4.02 cfs @ 12.10 hrs, Volume= 0.273 af
Primary = 4.02 cfs @ 12.10 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



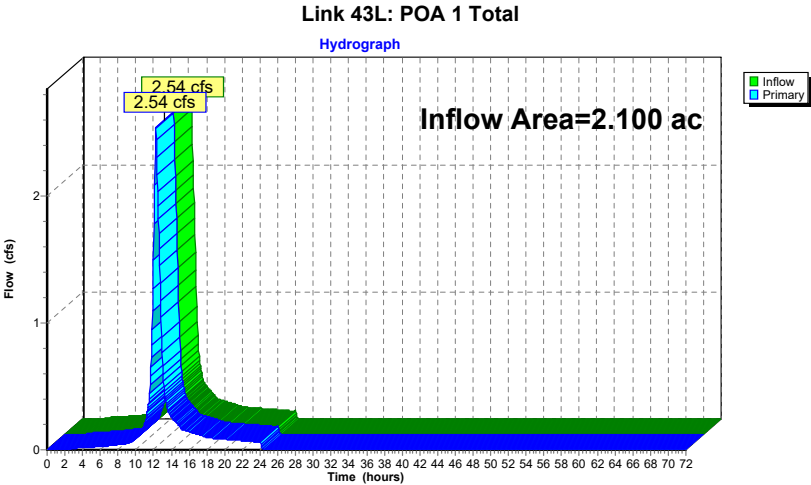
Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01	54.00	0.00	0.00	0.00
3.00	0.01	0.00	0.01	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.02	0.00	0.02	57.00	0.00	0.00	0.00
6.00	0.02	0.00	0.02	58.00	0.00	0.00	0.00
7.00	0.03	0.00	0.03	59.00	0.00	0.00	0.00
8.00	0.04	0.00	0.04	60.00	0.00	0.00	0.00
9.00	0.05	0.00	0.05	61.00	0.00	0.00	0.00
10.00	0.09	0.00	0.09	62.00	0.00	0.00	0.00
11.00	0.19	0.00	0.19	63.00	0.00	0.00	0.00
12.00	2.27	0.00	2.27	64.00	0.00	0.00	0.00
13.00	0.39	0.00	0.39	65.00	0.00	0.00	0.00
14.00	0.19	0.00	0.19	66.00	0.00	0.00	0.00
15.00	0.13	0.00	0.13	67.00	0.00	0.00	0.00
16.00	0.11	0.00	0.11	68.00	0.00	0.00	0.00
17.00	0.09	0.00	0.09	69.00	0.00	0.00	0.00
18.00	0.07	0.00	0.07	70.00	0.00	0.00	0.00
19.00	0.07	0.00	0.07	71.00	0.00	0.00	0.00
20.00	0.06	0.00	0.06	72.00	0.00	0.00	0.00
21.00	0.06	0.00	0.06				
22.00	0.06	0.00	0.06				
23.00	0.05	0.00	0.05				
24.00	0.06	0.00	0.06				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 1.96" for 2-Year-Current event
Inflow = 2.54 cfs @ 12.23 hrs, Volume= 0.342 af
Primary = 2.54 cfs @ 12.23 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



2026-05 Existing Hydrology

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Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.01	0.00	0.01	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.02	0.00	0.02	57.00	0.00	0.00	0.00
6.00	0.02	0.00	0.02	58.00	0.00	0.00	0.00
7.00	0.03	0.00	0.03	59.00	0.00	0.00	0.00
8.00	0.04	0.00	0.04	60.00	0.00	0.00	0.00
9.00	0.05	0.00	0.05	61.00	0.00	0.00	0.00
10.00	0.09	0.00	0.09	62.00	0.00	0.00	0.00
11.00	0.21	0.00	0.21	63.00	0.00	0.00	0.00
12.00	1.50	0.00	1.50	64.00	0.00	0.00	0.00
13.00	0.66	0.00	0.66	65.00	0.00	0.00	0.00
14.00	0.26	0.00	0.26	66.00	0.00	0.00	0.00
15.00	0.18	0.00	0.18	67.00	0.00	0.00	0.00
16.00	0.14	0.00	0.14	68.00	0.00	0.00	0.00
17.00	0.12	0.00	0.12	69.00	0.00	0.00	0.00
18.00	0.10	0.00	0.10	70.00	0.00	0.00	0.00
19.00	0.09	0.00	0.09	71.00	0.00	0.00	0.00
20.00	0.08	0.00	0.08	72.00	0.00	0.00	0.00
21.00	0.08	0.00	0.08				
22.00	0.07	0.00	0.07				
23.00	0.07	0.00	0.07				
24.00	0.07	0.00	0.07				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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Summary for Link 45L: DA Undetained

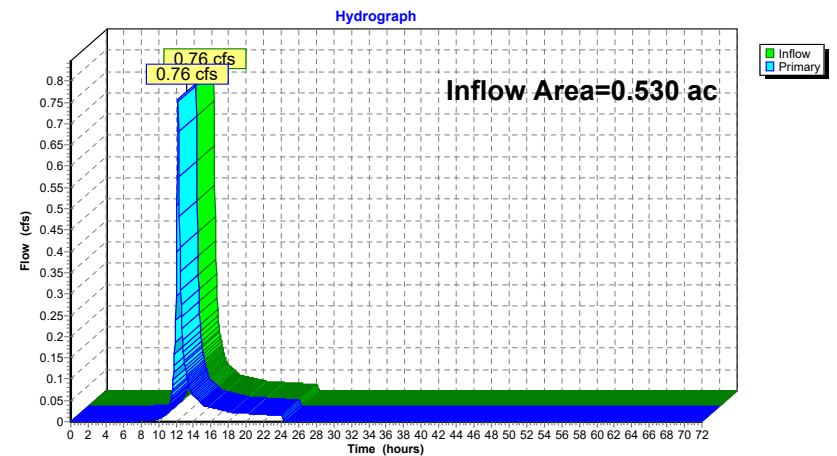
Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 1.57" for 2-Year-Current event

Inflow = 0.76 cfs @ 12.23 hrs, Volume= 0.069 af

Primary = 0.76 cfs @ 12.23 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min

Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 45L: DA Undetained

2026-05 Existing Hydrology

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.03	0.00	0.03	63.00	0.00	0.00	0.00
12.00	0.30	0.00	0.30	64.00	0.00	0.00	0.00
13.00	0.14	0.00	0.14	65.00	0.00	0.00	0.00
14.00	0.06	0.00	0.06	66.00	0.00	0.00	0.00
15.00	0.04	0.00	0.04	67.00	0.00	0.00	0.00
16.00	0.03	0.00	0.03	68.00	0.00	0.00	0.00
17.00	0.03	0.00	0.03	69.00	0.00	0.00	0.00
18.00	0.02	0.00	0.02	70.00	0.00	0.00	0.00
19.00	0.02	0.00	0.02	71.00	0.00	0.00	0.00
20.00	0.02	0.00	0.02	72.00	0.00	0.00	0.00
21.00	0.02	0.00	0.02				
22.00	0.02	0.00	0.02				
23.00	0.02	0.00	0.02				
24.00	0.01	0.00	0.01				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=3.61" Flow Length=358' Tc=3.1 min CN=98 Runoff=2.51 cfs 0.171 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=1.91" Flow Length=228' Tc=5.1 min CN=80 Runoff=2.49 cfs 0.159 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=3.61" Flow Length=97' Tc=1.0 min CN=98 Runoff=0.09 cfs 0.006 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=1.91" Flow Length=189' Slope=0.0200 '/' Tc=13.7 min CN=80 Runoff=0.96 cfs 0.081 af
Pond 44P: Ex. Basin	Peak Elev=135.58' Storage=0.054 af Inflow=4.92 cfs 0.330 af Primary=1.95 cfs 0.330 af Secondary=0.00 cfs 0.000 af Outflow=1.95 cfs 0.330 af
Link 37L: DA Ex Basin	Inflow=4.92 cfs 0.330 af Primary=4.92 cfs 0.330 af
Link 43L: POA 1 Total	Inflow=2.94 cfs 0.417 af Primary=2.94 cfs 0.417 af
Link 45L: DA Undetained	Inflow=0.99 cfs 0.087 af Primary=0.99 cfs 0.087 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.418 af Average Runoff Depth = 2.39"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.51 cfs @ 12.09 hrs, Volume= 0.171 af, Depth= 3.61"
Routed to Link 37L : DA Ex Basin

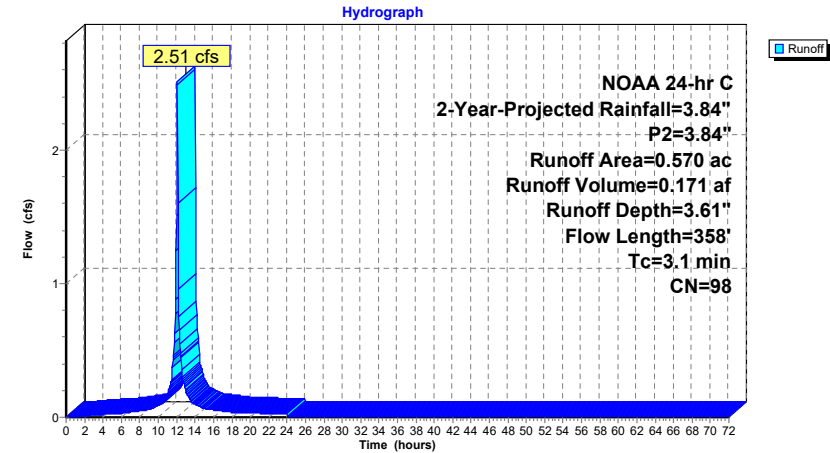
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.1	358	Total			



Subcatchment 38S: Impervious



2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

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Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	3.61	0.00
1.00	0.04	0.00	0.00	53.00	3.84	3.61	0.00
2.00	0.09	0.01	0.01	54.00	3.84	3.61	0.00
3.00	0.14	0.03	0.02	55.00	3.84	3.61	0.00
4.00	0.19	0.06	0.02	56.00	3.84	3.61	0.00
5.00	0.24	0.10	0.02	57.00	3.84	3.61	0.00
6.00	0.30	0.15	0.03	58.00	3.84	3.61	0.00
7.00	0.37	0.21	0.04	59.00	3.84	3.61	0.00
8.00	0.46	0.28	0.05	60.00	3.84	3.61	0.00
9.00	0.56	0.37	0.06	61.00	3.84	3.61	0.00
10.00	0.70	0.50	0.09	62.00	3.84	3.61	0.00
11.00	0.92	0.72	0.17	63.00	3.84	3.61	0.00
12.00	1.83	1.61	1.51	64.00	3.84	3.61	0.00
13.00	2.92	2.69	0.20	65.00	3.84	3.61	0.00
14.00	3.14	2.91	0.10	66.00	3.84	3.61	0.00
15.00	3.28	3.05	0.06	67.00	3.84	3.61	0.00
16.00	3.38	3.15	0.05	68.00	3.84	3.61	0.00
17.00	3.47	3.23	0.05	69.00	3.84	3.61	0.00
18.00	3.54	3.30	0.04	70.00	3.84	3.61	0.00
19.00	3.60	3.36	0.03	71.00	3.84	3.61	0.00
20.00	3.65	3.42	0.03	72.00	3.84	3.61	0.00
21.00	3.70	3.47	0.03				
22.00	3.75	3.52	0.03				
23.00	3.80	3.56	0.02				
24.00	3.84	3.61	0.03				
25.00	3.84	3.61	0.00				
26.00	3.84	3.61	0.00				
27.00	3.84	3.61	0.00				
28.00	3.84	3.61	0.00				
29.00	3.84	3.61	0.00				
30.00	3.84	3.61	0.00				
31.00	3.84	3.61	0.00				
32.00	3.84	3.61	0.00				
33.00	3.84	3.61	0.00				
34.00	3.84	3.61	0.00				
35.00	3.84	3.61	0.00				
36.00	3.84	3.61	0.00				
37.00	3.84	3.61	0.00				
38.00	3.84	3.61	0.00				
39.00	3.84	3.61	0.00				
40.00	3.84	3.61	0.00				
41.00	3.84	3.61	0.00				
42.00	3.84	3.61	0.00				
43.00	3.84	3.61	0.00				
44.00	3.84	3.61	0.00				
45.00	3.84	3.61	0.00				
46.00	3.84	3.61	0.00				
47.00	3.84	3.61	0.00				
48.00	3.84	3.61	0.00				
49.00	3.84	3.61	0.00				
50.00	3.84	3.61	0.00				
51.00	3.84	3.61	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

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Summary for Subcatchment 39S: Pervious

[49] Hint: Tc<2dt may require smaller dt

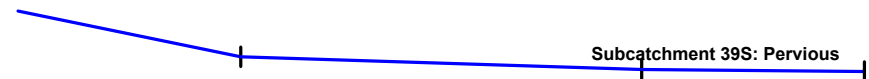
Runoff = 2.49 cfs @ 12.12 hrs, Volume= 0.159 af, Depth= 1.91"

Routed to Link 37L : DA Ex Basin

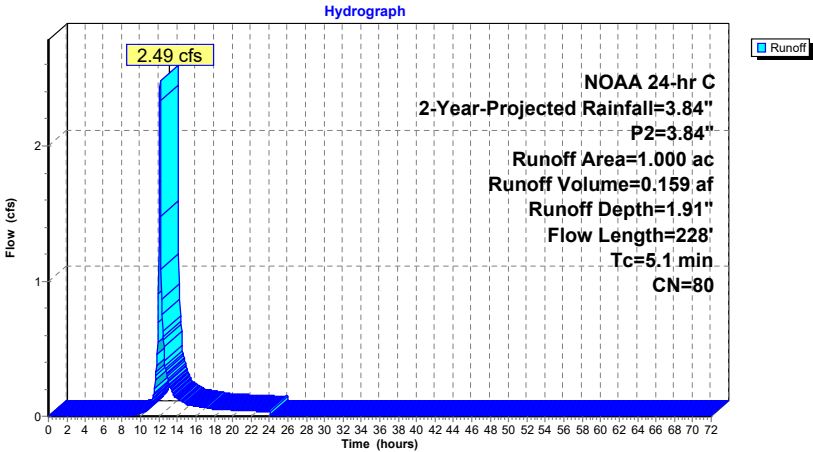
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description			
1.000	80	>75% Grass cover, Good, HSG D			
1.000		100.00% Pervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.1300	0.24		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.8	108	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.1	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	1.91	0.00
1.00	0.04	0.00	0.00	53.00	3.84	1.91	0.00
2.00	0.09	0.00	0.00	54.00	3.84	1.91	0.00
3.00	0.14	0.00	0.00	55.00	3.84	1.91	0.00
4.00	0.19	0.00	0.00	56.00	3.84	1.91	0.00
5.00	0.24	0.00	0.00	57.00	3.84	1.91	0.00
6.00	0.30	0.00	0.00	58.00	3.84	1.91	0.00
7.00	0.37	0.00	0.00	59.00	3.84	1.91	0.00
8.00	0.46	0.00	0.00	60.00	3.84	1.91	0.00
9.00	0.56	0.00	0.00	61.00	3.84	1.91	0.00
10.00	0.70	0.01	0.02	62.00	3.84	1.91	0.00
11.00	0.92	0.06	0.08	63.00	3.84	1.91	0.00
12.00	1.83	0.46	1.28	64.00	3.84	1.91	0.00
13.00	2.92	1.19	0.27	65.00	3.84	1.91	0.00
14.00	3.14	1.36	0.13	66.00	3.84	1.91	0.00
15.00	3.28	1.46	0.09	67.00	3.84	1.91	0.00
16.00	3.38	1.54	0.07	68.00	3.84	1.91	0.00
17.00	3.47	1.61	0.06	69.00	3.84	1.91	0.00
18.00	3.54	1.66	0.05	70.00	3.84	1.91	0.00
19.00	3.60	1.71	0.05	71.00	3.84	1.91	0.00
20.00	3.65	1.76	0.04	72.00	3.84	1.91	0.00
21.00	3.70	1.80	0.04				
22.00	3.75	1.84	0.04				
23.00	3.80	1.88	0.04				
24.00	3.84	1.91	0.04				
25.00	3.84	1.91	0.00				
26.00	3.84	1.91	0.00				
27.00	3.84	1.91	0.00				
28.00	3.84	1.91	0.00				
29.00	3.84	1.91	0.00				
30.00	3.84	1.91	0.00				
31.00	3.84	1.91	0.00				
32.00	3.84	1.91	0.00				
33.00	3.84	1.91	0.00				
34.00	3.84	1.91	0.00				
35.00	3.84	1.91	0.00				
36.00	3.84	1.91	0.00				
37.00	3.84	1.91	0.00				
38.00	3.84	1.91	0.00				
39.00	3.84	1.91	0.00				
40.00	3.84	1.91	0.00				
41.00	3.84	1.91	0.00				
42.00	3.84	1.91	0.00				
43.00	3.84	1.91	0.00				
44.00	3.84	1.91	0.00				
45.00	3.84	1.91	0.00				
46.00	3.84	1.91	0.00				
47.00	3.84	1.91	0.00				
48.00	3.84	1.91	0.00				
49.00	3.84	1.91	0.00				
50.00	3.84	1.91	0.00				
51.00	3.84	1.91	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.09 cfs @ 12.06 hrs, Volume= 0.006 af, Depth= 3.61"
Routed to Link 45L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

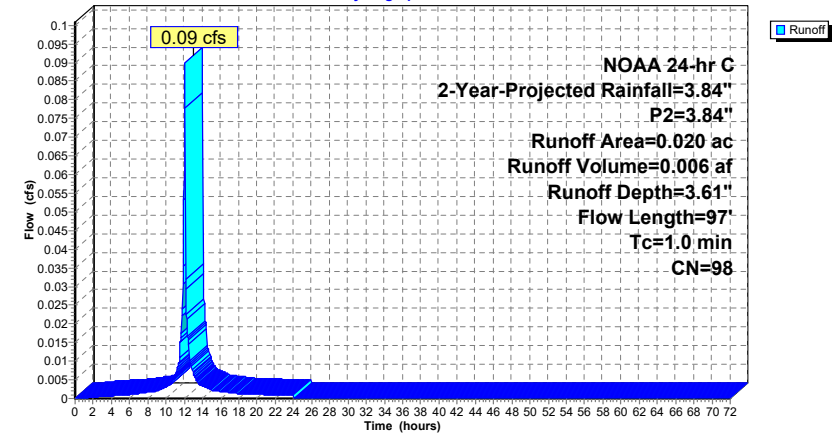
Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	16	0.0050	0.60		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.0	97	Total			



Subcatchment 46S: Impervious

Hydrograph



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00
2.00	0.09	0.01	0.00
3.00	0.14	0.03	0.00
4.00	0.19	0.06	0.00
5.00	0.24	0.10	0.00
6.00	0.30	0.15	0.00
7.00	0.37	0.21	0.00
8.00	0.46	0.28	0.00
9.00	0.56	0.37	0.00
10.00	0.70	0.50	0.00
11.00	0.92	0.72	0.01
12.00	1.83	1.61	0.06
13.00	2.92	2.69	0.01
14.00	3.14	2.91	0.00
15.00	3.28	3.05	0.00
16.00	3.38	3.15	0.00
17.00	3.47	3.23	0.00
18.00	3.54	3.30	0.00
19.00	3.60	3.36	0.00
20.00	3.65	3.42	0.00
21.00	3.70	3.47	0.00
22.00	3.75	3.52	0.00
23.00	3.80	3.56	0.00
24.00	3.84	3.61	0.00
25.00	3.84	3.61	0.00
26.00	3.84	3.61	0.00
27.00	3.84	3.61	0.00
28.00	3.84	3.61	0.00
29.00	3.84	3.61	0.00
30.00	3.84	3.61	0.00
31.00	3.84	3.61	0.00
32.00	3.84	3.61	0.00
33.00	3.84	3.61	0.00
34.00	3.84	3.61	0.00
35.00	3.84	3.61	0.00
36.00	3.84	3.61	0.00
37.00	3.84	3.61	0.00
38.00	3.84	3.61	0.00
39.00	3.84	3.61	0.00
40.00	3.84	3.61	0.00
41.00	3.84	3.61	0.00
42.00	3.84	3.61	0.00
43.00	3.84	3.61	0.00
44.00	3.84	3.61	0.00
45.00	3.84	3.61	0.00
46.00	3.84	3.61	0.00
47.00	3.84	3.61	0.00
48.00	3.84	3.61	0.00
49.00	3.84	3.61	0.00
50.00	3.84	3.61	0.00
51.00	3.84	3.61	0.00

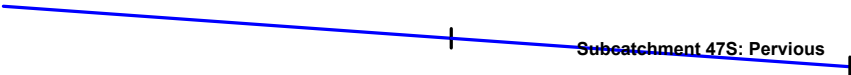
Summary for Subcatchment 47S: Pervious

Runoff = 0.96 cfs @ 12.22 hrs, Volume= 0.081 af, Depth= 1.91"
Routed to Link 45L : DA Undetained

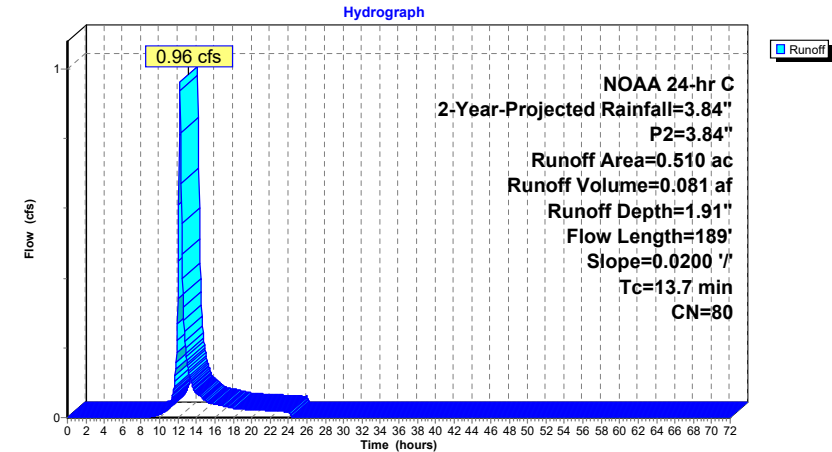
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description			
0.510	80	>75% Grass cover, Good, HSG D			
0.510		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.0	100	0.0200	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	189	Total			



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	1.91	0.00
1.00	0.04	0.00	0.00	53.00	3.84	1.91	0.00
2.00	0.09	0.00	0.00	54.00	3.84	1.91	0.00
3.00	0.14	0.00	0.00	55.00	3.84	1.91	0.00
4.00	0.19	0.00	0.00	56.00	3.84	1.91	0.00
5.00	0.24	0.00	0.00	57.00	3.84	1.91	0.00
6.00	0.30	0.00	0.00	58.00	3.84	1.91	0.00
7.00	0.37	0.00	0.00	59.00	3.84	1.91	0.00
8.00	0.46	0.00	0.00	60.00	3.84	1.91	0.00
9.00	0.56	0.00	0.00	61.00	3.84	1.91	0.00
10.00	0.70	0.01	0.01	62.00	3.84	1.91	0.00
11.00	0.92	0.06	0.03	63.00	3.84	1.91	0.00
12.00	1.83	0.46	0.34	64.00	3.84	1.91	0.00
13.00	2.92	1.19	0.16	65.00	3.84	1.91	0.00
14.00	3.14	1.36	0.07	66.00	3.84	1.91	0.00
15.00	3.28	1.46	0.05	67.00	3.84	1.91	0.00
16.00	3.38	1.54	0.04	68.00	3.84	1.91	0.00
17.00	3.47	1.61	0.03	69.00	3.84	1.91	0.00
18.00	3.54	1.66	0.03	70.00	3.84	1.91	0.00
19.00	3.60	1.71	0.02	71.00	3.84	1.91	0.00
20.00	3.65	1.76	0.02	72.00	3.84	1.91	0.00
21.00	3.70	1.80	0.02				
22.00	3.75	1.84	0.02				
23.00	3.80	1.88	0.02				
24.00	3.84	1.91	0.02				
25.00	3.84	1.91	0.00				
26.00	3.84	1.91	0.00				
27.00	3.84	1.91	0.00				
28.00	3.84	1.91	0.00				
29.00	3.84	1.91	0.00				
30.00	3.84	1.91	0.00				
31.00	3.84	1.91	0.00				
32.00	3.84	1.91	0.00				
33.00	3.84	1.91	0.00				
34.00	3.84	1.91	0.00				
35.00	3.84	1.91	0.00				
36.00	3.84	1.91	0.00				
37.00	3.84	1.91	0.00				
38.00	3.84	1.91	0.00				
39.00	3.84	1.91	0.00				
40.00	3.84	1.91	0.00				
41.00	3.84	1.91	0.00				
42.00	3.84	1.91	0.00				
43.00	3.84	1.91	0.00				
44.00	3.84	1.91	0.00				
45.00	3.84	1.91	0.00				
46.00	3.84	1.91	0.00				
47.00	3.84	1.91	0.00				
48.00	3.84	1.91	0.00				
49.00	3.84	1.91	0.00				
50.00	3.84	1.91	0.00				
51.00	3.84	1.91	0.00				

Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 2.53" for 2-Year-Projected event
Inflow = 4.92 cfs @ 12.10 hrs, Volume= 0.330 af
Outflow = 1.95 cfs @ 12.25 hrs, Volume= 0.330 af, Atten= 60%, Lag= 8.7 min
Primary = 1.95 cfs @ 12.25 hrs, Volume= 0.330 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 135.58' @ 12.25 hrs Surf.Area= 0.069 ac Storage= 0.054 af

Plug-Flow detention time= 10.7 min calculated for 0.330 af (100% of inflow)
Center-of-Mass det. time= 9.8 min (801.9 - 792.1)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

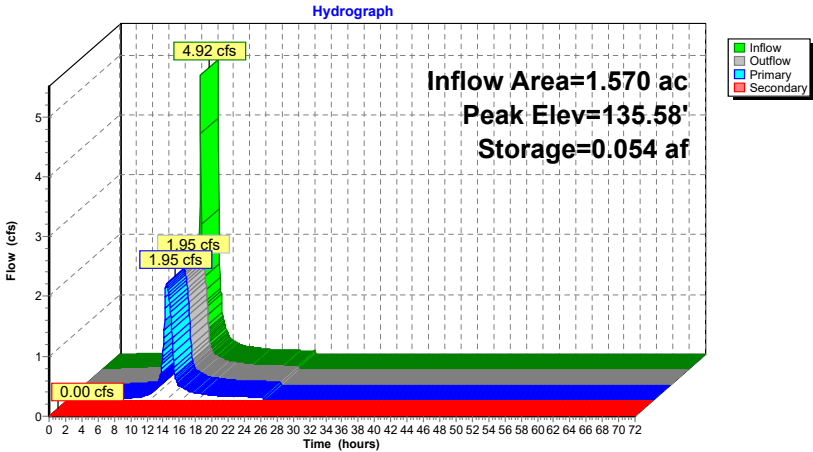
Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (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) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=1.95 cfs @ 12.25 hrs HW=135.58' (Free Discharge)
1=Orifice/Grate (Orifice Controls 1.95 cfs @ 5.58 fps)
2=Orifice/Grate (Controls 0.00 cfs)

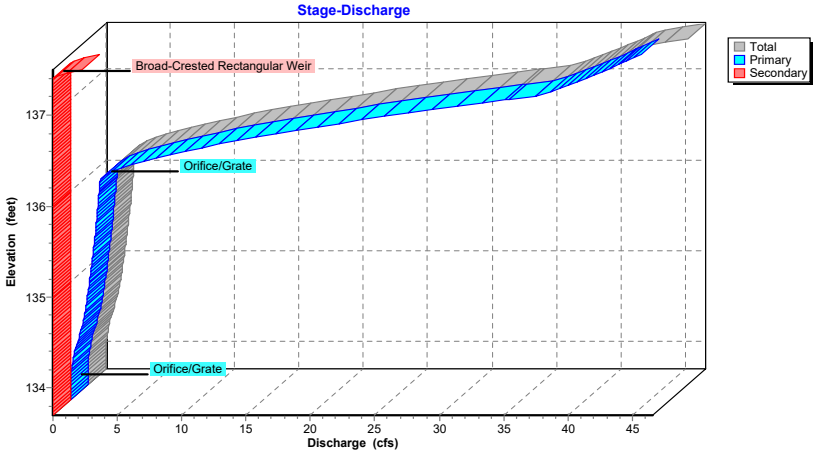
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)
3=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

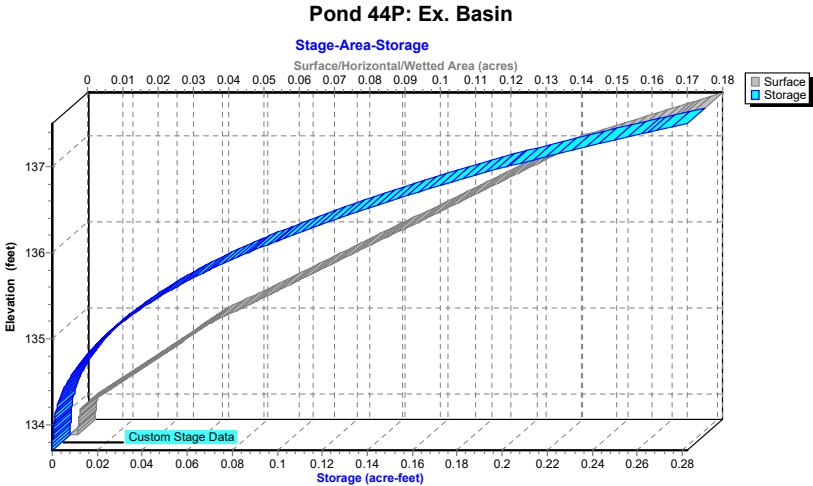


Pond 44P: Ex. Basin



Pond 44P: Ex. Basin





Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.01	0.001	133.95	0.01	0.01	0.00
5.00	0.02	0.001	133.98	0.02	0.02	0.00
7.50	0.04	0.001	134.01	0.04	0.04	0.00
10.00	0.11	0.001	134.08	0.11	0.11	0.00
12.50	1.01	0.041	135.38	1.80	1.80	0.00
15.00	0.15	0.001	134.12	0.16	0.16	0.00
17.50	0.10	0.001	134.07	0.10	0.10	0.00
20.00	0.08	0.001	134.05	0.08	0.08	0.00
22.50	0.06	0.001	134.03	0.06	0.06	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

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Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

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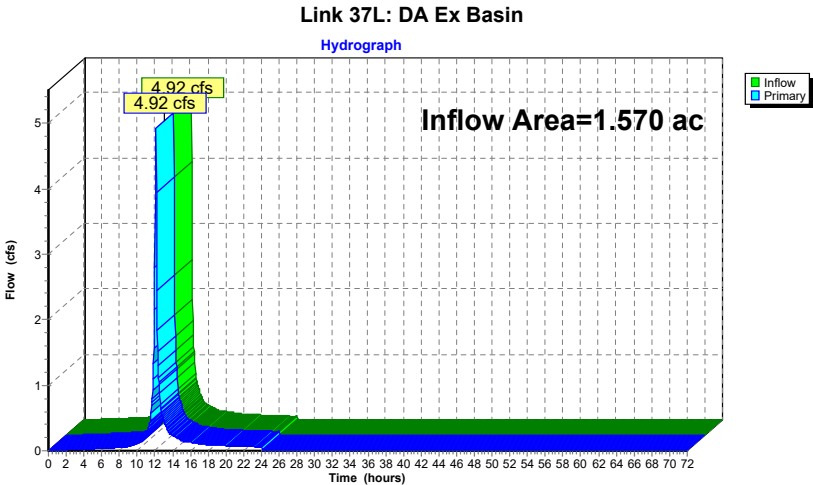
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 2.53" for 2-Year-Projected event
Inflow = 4.92 cfs @ 12.10 hrs, Volume= 0.330 af
Primary = 4.92 cfs @ 12.10 hrs, Volume= 0.330 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



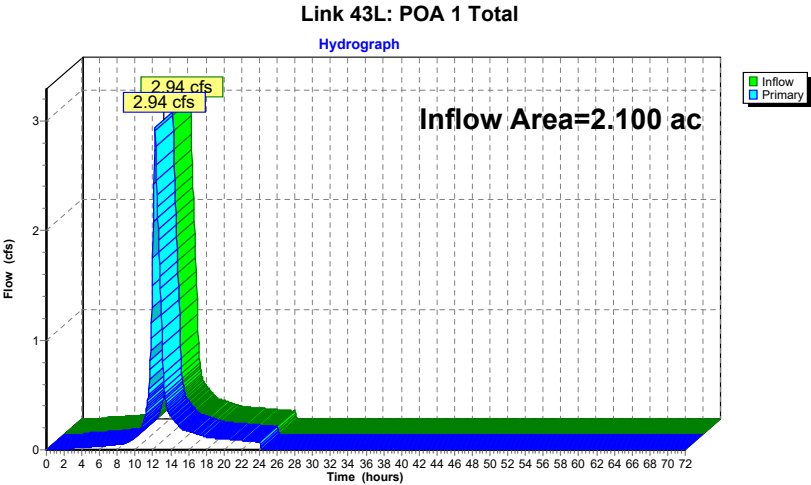
Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01	54.00	0.00	0.00	0.00
3.00	0.02	0.00	0.02	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.02	0.00	0.02	57.00	0.00	0.00	0.00
6.00	0.03	0.00	0.03	58.00	0.00	0.00	0.00
7.00	0.04	0.00	0.04	59.00	0.00	0.00	0.00
8.00	0.05	0.00	0.05	60.00	0.00	0.00	0.00
9.00	0.06	0.00	0.06	61.00	0.00	0.00	0.00
10.00	0.11	0.00	0.11	62.00	0.00	0.00	0.00
11.00	0.25	0.00	0.25	63.00	0.00	0.00	0.00
12.00	2.79	0.00	2.79	64.00	0.00	0.00	0.00
13.00	0.46	0.00	0.46	65.00	0.00	0.00	0.00
14.00	0.23	0.00	0.23	66.00	0.00	0.00	0.00
15.00	0.15	0.00	0.15	67.00	0.00	0.00	0.00
16.00	0.13	0.00	0.13	68.00	0.00	0.00	0.00
17.00	0.11	0.00	0.11	69.00	0.00	0.00	0.00
18.00	0.09	0.00	0.09	70.00	0.00	0.00	0.00
19.00	0.08	0.00	0.08	71.00	0.00	0.00	0.00
20.00	0.08	0.00	0.08	72.00	0.00	0.00	0.00
21.00	0.07	0.00	0.07				
22.00	0.07	0.00	0.07				
23.00	0.06	0.00	0.06				
24.00	0.07	0.00	0.07				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 2.38" for 2-Year-Projected event
Inflow = 2.94 cfs @ 12.22 hrs, Volume= 0.417 af
Primary = 2.94 cfs @ 12.22 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



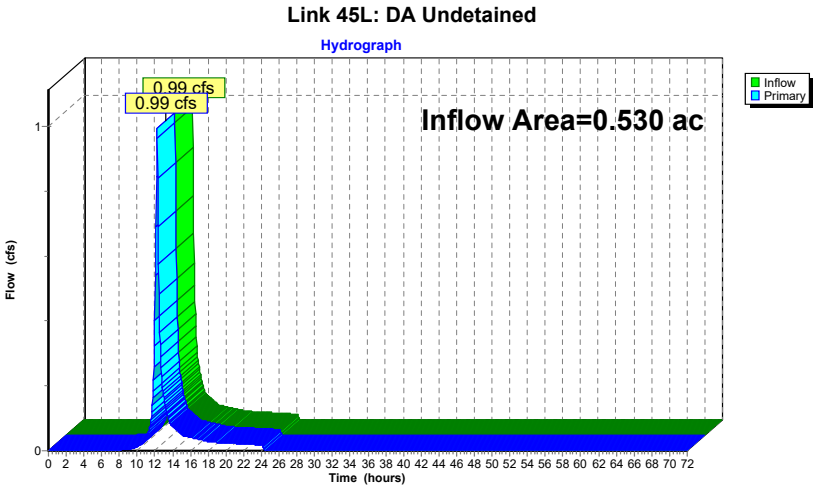
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.02	0.00	0.02	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.03	0.00	0.03	57.00	0.00	0.00	0.00
6.00	0.03	0.00	0.03	58.00	0.00	0.00	0.00
7.00	0.04	0.00	0.04	59.00	0.00	0.00	0.00
8.00	0.05	0.00	0.05	60.00	0.00	0.00	0.00
9.00	0.06	0.00	0.06	61.00	0.00	0.00	0.00
10.00	0.12	0.00	0.12	62.00	0.00	0.00	0.00
11.00	0.27	0.00	0.27	63.00	0.00	0.00	0.00
12.00	1.75	0.00	1.75	64.00	0.00	0.00	0.00
13.00	1.10	0.00	1.10	65.00	0.00	0.00	0.00
14.00	0.31	0.00	0.31	66.00	0.00	0.00	0.00
15.00	0.21	0.00	0.21	67.00	0.00	0.00	0.00
16.00	0.17	0.00	0.17	68.00	0.00	0.00	0.00
17.00	0.14	0.00	0.14	69.00	0.00	0.00	0.00
18.00	0.12	0.00	0.12	70.00	0.00	0.00	0.00
19.00	0.11	0.00	0.11	71.00	0.00	0.00	0.00
20.00	0.10	0.00	0.10	72.00	0.00	0.00	0.00
21.00	0.09	0.00	0.09				
22.00	0.09	0.00	0.09				
23.00	0.08	0.00	0.08				
24.00	0.08	0.00	0.08				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 45L: DA Undetained

Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 1.97" for 2-Year-Projected event
Inflow = 0.99 cfs @ 12.22 hrs, Volume= 0.087 af
Primary = 0.99 cfs @ 12.22 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.04	0.00	0.04	63.00	0.00	0.00	0.00
12.00	0.40	0.00	0.40	64.00	0.00	0.00	0.00
13.00	0.16	0.00	0.16	65.00	0.00	0.00	0.00
14.00	0.07	0.00	0.07	66.00	0.00	0.00	0.00
15.00	0.05	0.00	0.05	67.00	0.00	0.00	0.00
16.00	0.04	0.00	0.04	68.00	0.00	0.00	0.00
17.00	0.03	0.00	0.03	69.00	0.00	0.00	0.00
18.00	0.03	0.00	0.03	70.00	0.00	0.00	0.00
19.00	0.03	0.00	0.03	71.00	0.00	0.00	0.00
20.00	0.02	0.00	0.02	72.00	0.00	0.00	0.00
21.00	0.02	0.00	0.02				
22.00	0.02	0.00	0.02				
23.00	0.02	0.00	0.02				
24.00	0.02	0.00	0.02				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=4.87" Flow Length=358' Tc=3.2 min CN=98 Runoff=3.34 cfs 0.231 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=2.99" Flow Length=228' Tc=5.4 min CN=80 Runoff=3.82 cfs 0.249 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=4.87" Flow Length=97' Tc=1.1 min CN=98 Runoff=0.12 cfs 0.008 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=2.99" Flow Length=189' Slope=0.0200 '/' Tc=14.7 min CN=80 Runoff=1.46 cfs 0.127 af
Pond 44P: Ex. Basin	Peak Elev=136.07' Storage=0.094 af Inflow=7.03 cfs 0.481 af Primary=2.28 cfs 0.480 af Secondary=0.00 cfs 0.000 af Outflow=2.28 cfs 0.480 af
Link 37L: DA Ex Basin	Inflow=7.03 cfs 0.481 af Primary=7.03 cfs 0.481 af
Link 43L: POA 1 Total	Inflow=3.76 cfs 0.615 af Primary=3.76 cfs 0.615 af
Link 45L: DA Undetained	Inflow=1.49 cfs 0.135 af Primary=1.49 cfs 0.135 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.616 af Average Runoff Depth = 3.52"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.34 cfs @ 12.09 hrs, Volume= 0.231 af, Depth= 4.87"
Routed to Link 37L : DA Ex Basin

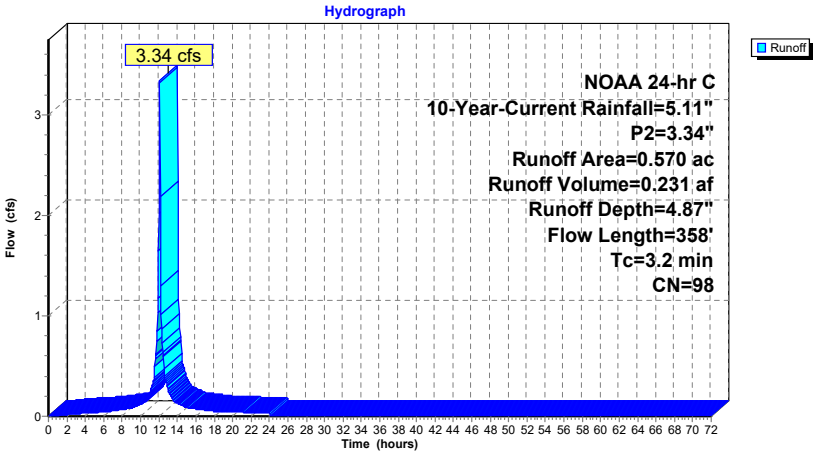
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.2	358	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.02	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.02	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.03	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.04	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.04	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.05	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.07	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.08	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.12	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.23	63.00	5.11	4.87	0.00
12.00	2.44	2.21	2.01	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.26	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.13	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.09	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.07	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.06	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.05	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.04	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.04	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.04				
22.00	4.99	4.76	0.04				
23.00	5.05	4.82	0.03				
24.00	5.11	4.87	0.04				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

Summary for Subcatchment 39S: Pervious

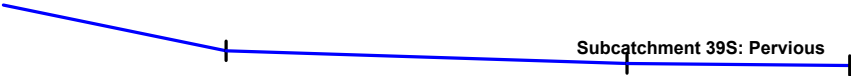
[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.82 cfs @ 12.12 hrs, Volume= 0.249 af, Depth= 2.99"
Routed to Link 37L : DA Ex Basin

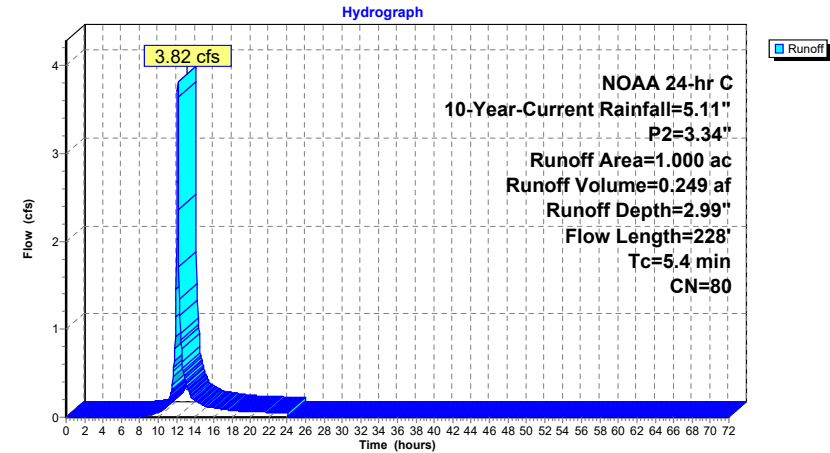
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description			
1.000	80	>75% Grass cover, Good, HSG D			
1.000		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.1300	0.23		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.8	108	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.4	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.01	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.02	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.06	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.15	63.00	5.11	2.99	0.00
12.00	2.44	0.84	2.03	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.39	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.19	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.13	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.11	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.09	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.07	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.07	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.06	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.06				
22.00	4.99	2.89	0.05				
23.00	5.05	2.94	0.05				
24.00	5.11	2.99	0.05				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.12 cfs @ 12.06 hrs, Volume= 0.008 af, Depth= 4.87"
Routed to Link 45L : DA Undetained

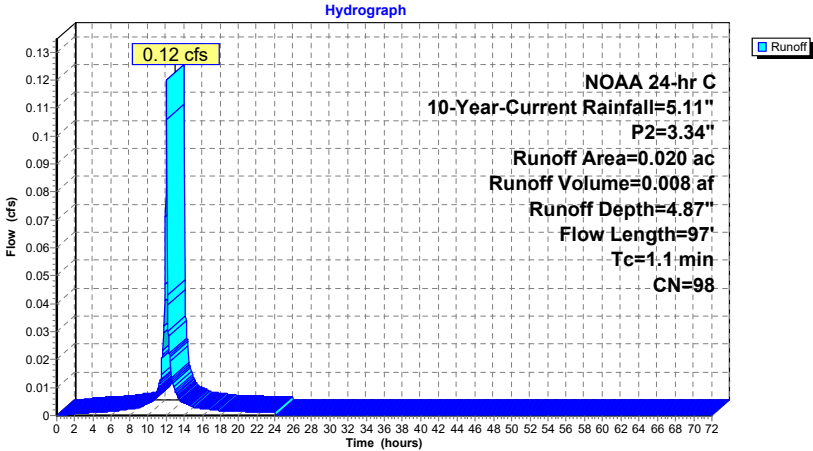
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	16	0.0050	0.56		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	97	Total			



Subcatchment 46S: Impervious



2026-05 Existing Hydrology

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.00	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.00	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.00	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.00	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.00	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.00	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.00	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.00	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.00	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.01	63.00	5.11	4.87	0.00
12.00	2.44	2.21	0.08	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.01	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.00	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.00	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.00	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.00	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.00	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.00	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.00	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.00				
22.00	4.99	4.76	0.00				
23.00	5.05	4.82	0.00				
24.00	5.11	4.87	0.00				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

2026-05 Existing Hydrology

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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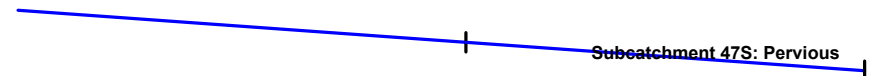
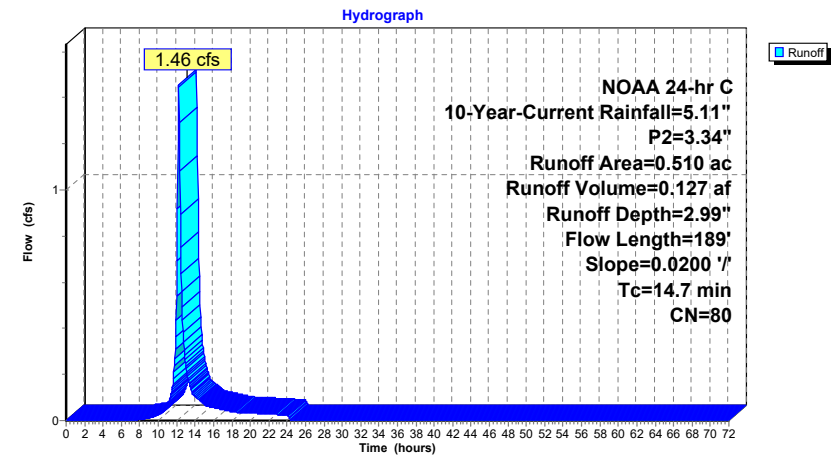
Summary for Subcatchment 47S: Pervious

Runoff = 1.46 cfs @ 12.23 hrs, Volume= 0.127 af, Depth= 2.99"
 Routed to Link 45L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.510	80	>75% Grass cover, Good, HSG D
0.510		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	100	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.7	189	Total			

**Subcatchment 47S: Pervious**

2026-05 Existing Hydrology

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.00	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.01	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.03	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.07	63.00	5.11	2.99	0.00
12.00	2.44	0.84	0.54	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.24	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.10	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.07	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.06	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.05	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.04	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.03	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.03	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.03				
22.00	4.99	2.89	0.03				
23.00	5.05	2.94	0.03				
24.00	5.11	2.99	0.02				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 3.67" for 10-Year-Current event
Inflow = 7.03 cfs @ 12.10 hrs, Volume= 0.481 af
Outflow = 2.28 cfs @ 12.30 hrs, Volume= 0.480 af, Atten= 68%, Lag= 11.6 min
Primary = 2.28 cfs @ 12.30 hrs, Volume= 0.480 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.07' @ 12.30 hrs Surf.Area= 0.094 ac Storage= 0.094 af

Plug-Flow detention time= 14.0 min calculated for 0.480 af (100% of inflow)
Center-of-Mass det. time= 13.2 min (799.3 - 786.1)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' 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) 2.34 2.50 2.70 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

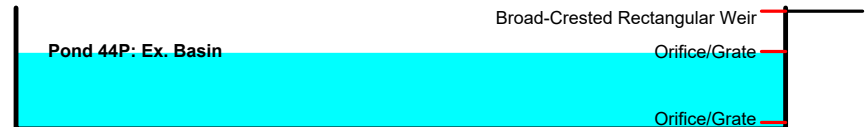
Primary OutFlow Max=2.28 cfs @ 12.30 hrs HW=136.07' (Free Discharge)

1=Orifice/Grate (Orifice Controls 2.28 cfs @ 6.53 fps)

2=Orifice/Grate (Controls 0.00 cfs)

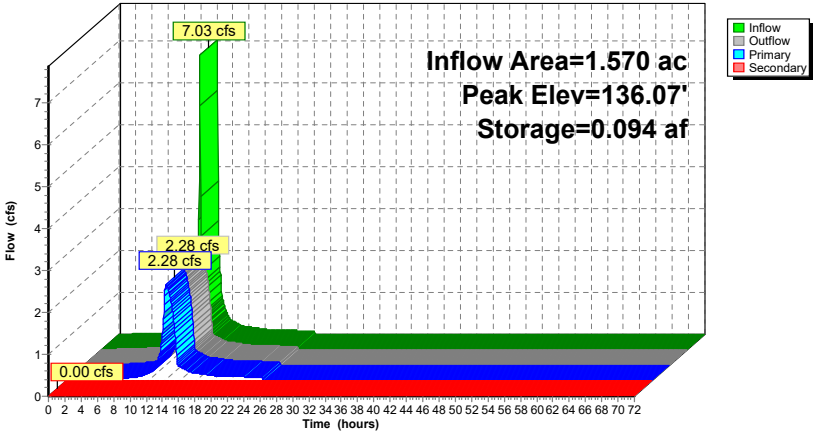
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)

3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)



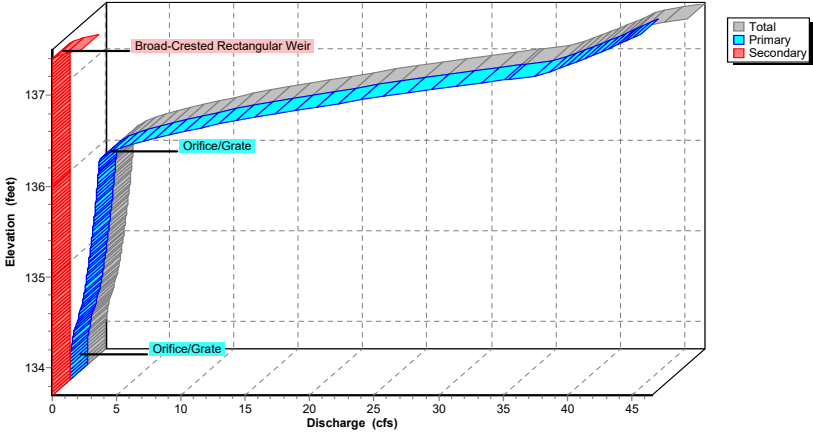
Pond 44P: Ex. Basin

Hydrograph



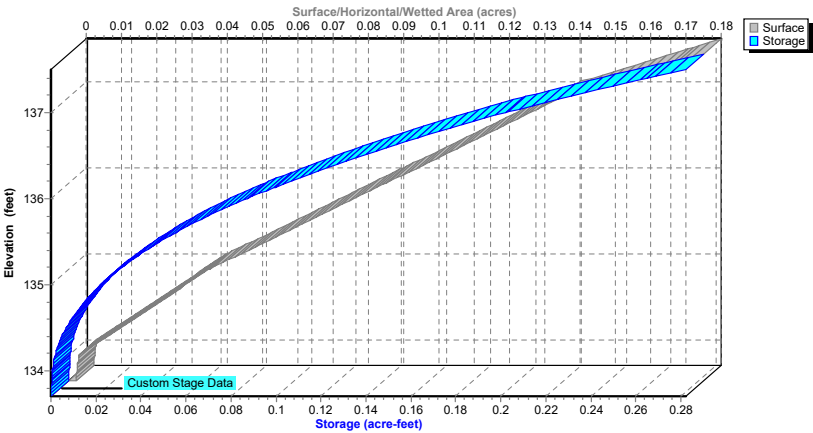
Pond 44P: Ex. Basin

Stage-Discharge



Pond 44P: Ex. Basin

Stage-Area-Storage



2026-05 Existing Hydrology

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.02	0.001	133.97	0.02	0.02	0.00
5.00	0.04	0.001	134.00	0.04	0.04	0.00
7.50	0.06	0.001	134.03	0.06	0.06	0.00
10.00	0.18	0.001	134.13	0.17	0.17	0.00
12.50	1.44	0.085	135.97	2.22	2.22	0.00
15.00	0.22	0.002	134.16	0.22	0.22	0.00
17.50	0.14	0.001	134.10	0.14	0.14	0.00
20.00	0.11	0.001	134.08	0.11	0.11	0.00
22.50	0.09	0.001	134.06	0.09	0.09	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

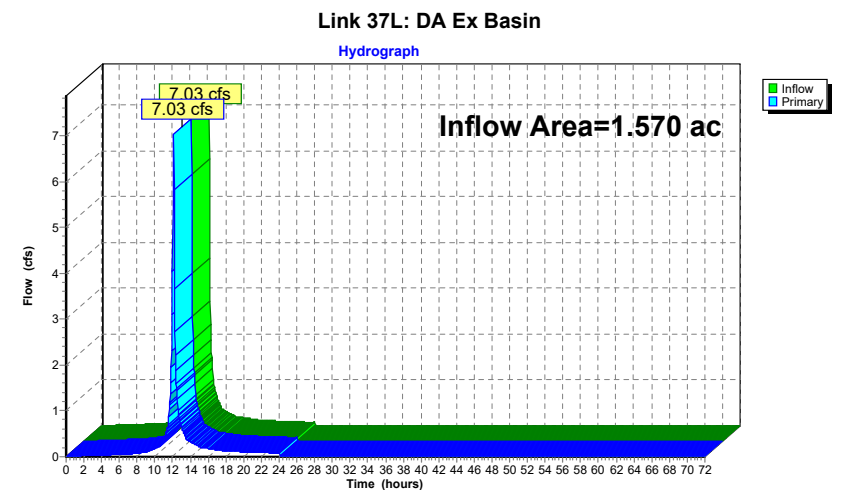
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 3.67" for 10-Year-Current event
Inflow = 7.03 cfs @ 12.10 hrs, Volume= 0.481 af
Primary = 7.03 cfs @ 12.10 hrs, Volume= 0.481 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.02	0.00	0.02	54.00	0.00	0.00	0.00
3.00	0.02	0.00	0.02	55.00	0.00	0.00	0.00
4.00	0.03	0.00	0.03	56.00	0.00	0.00	0.00
5.00	0.04	0.00	0.04	57.00	0.00	0.00	0.00
6.00	0.04	0.00	0.04	58.00	0.00	0.00	0.00
7.00	0.05	0.00	0.05	59.00	0.00	0.00	0.00
8.00	0.08	0.00	0.08	60.00	0.00	0.00	0.00
9.00	0.10	0.00	0.10	61.00	0.00	0.00	0.00
10.00	0.18	0.00	0.18	62.00	0.00	0.00	0.00
11.00	0.38	0.00	0.38	63.00	0.00	0.00	0.00
12.00	4.04	0.00	4.04	64.00	0.00	0.00	0.00
13.00	0.66	0.00	0.66	65.00	0.00	0.00	0.00
14.00	0.32	0.00	0.32	66.00	0.00	0.00	0.00
15.00	0.22	0.00	0.22	67.00	0.00	0.00	0.00
16.00	0.18	0.00	0.18	68.00	0.00	0.00	0.00
17.00	0.15	0.00	0.15	69.00	0.00	0.00	0.00
18.00	0.12	0.00	0.12	70.00	0.00	0.00	0.00
19.00	0.11	0.00	0.11	71.00	0.00	0.00	0.00
20.00	0.11	0.00	0.11	72.00	0.00	0.00	0.00
21.00	0.10	0.00	0.10				
22.00	0.09	0.00	0.09				
23.00	0.08	0.00	0.08				
24.00	0.09	0.00	0.09				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

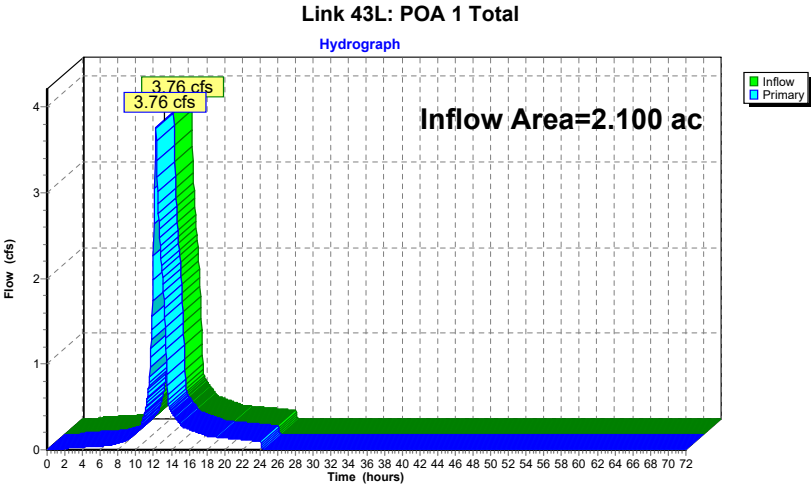
Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 3.52" for 10-Year-Current event

Inflow = 3.76 cfs @ 12.24 hrs, Volume= 0.615 af

Primary = 3.76 cfs @ 12.24 hrs, Volume= 0.615 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 43L: POA 1 Total

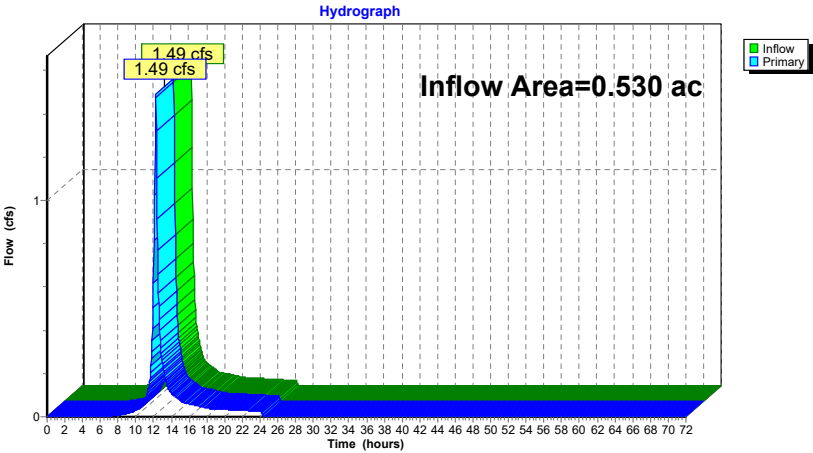
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.02	0.00	0.02	54.00	0.00	0.00	0.00
3.00	0.03	0.00	0.03	55.00	0.00	0.00	0.00
4.00	0.03	0.00	0.03	56.00	0.00	0.00	0.00
5.00	0.04	0.00	0.04	57.00	0.00	0.00	0.00
6.00	0.04	0.00	0.04	58.00	0.00	0.00	0.00
7.00	0.05	0.00	0.05	59.00	0.00	0.00	0.00
8.00	0.08	0.00	0.08	60.00	0.00	0.00	0.00
9.00	0.11	0.00	0.11	61.00	0.00	0.00	0.00
10.00	0.20	0.00	0.20	62.00	0.00	0.00	0.00
11.00	0.43	0.00	0.43	63.00	0.00	0.00	0.00
12.00	2.26	0.00	2.26	64.00	0.00	0.00	0.00
13.00	2.01	0.00	2.01	65.00	0.00	0.00	0.00
14.00	0.44	0.00	0.44	66.00	0.00	0.00	0.00
15.00	0.30	0.00	0.30	67.00	0.00	0.00	0.00
16.00	0.24	0.00	0.24	68.00	0.00	0.00	0.00
17.00	0.20	0.00	0.20	69.00	0.00	0.00	0.00
18.00	0.16	0.00	0.16	70.00	0.00	0.00	0.00
19.00	0.15	0.00	0.15	71.00	0.00	0.00	0.00
20.00	0.14	0.00	0.14	72.00	0.00	0.00	0.00
21.00	0.13	0.00	0.13				
22.00	0.12	0.00	0.12				
23.00	0.11	0.00	0.11				
24.00	0.11	0.00	0.11				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 45L: DA Undetained

Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 3.06" for 10-Year-Current event
Inflow = 1.49 cfs @ 12.23 hrs, Volume= 0.135 af
Primary = 1.49 cfs @ 12.23 hrs, Volume= 0.135 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 45L: DA Undetained



2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.01	0.00	0.01	60.00	0.00	0.00	0.00
9.00	0.01	0.00	0.01	61.00	0.00	0.00	0.00
10.00	0.03	0.00	0.03	62.00	0.00	0.00	0.00
11.00	0.07	0.00	0.07	63.00	0.00	0.00	0.00
12.00	0.62	0.00	0.62	64.00	0.00	0.00	0.00
13.00	0.25	0.00	0.25	65.00	0.00	0.00	0.00
14.00	0.11	0.00	0.11	66.00	0.00	0.00	0.00
15.00	0.07	0.00	0.07	67.00	0.00	0.00	0.00
16.00	0.06	0.00	0.06	68.00	0.00	0.00	0.00
17.00	0.05	0.00	0.05	69.00	0.00	0.00	0.00
18.00	0.04	0.00	0.04	70.00	0.00	0.00	0.00
19.00	0.04	0.00	0.04	71.00	0.00	0.00	0.00
20.00	0.03	0.00	0.03	72.00	0.00	0.00	0.00
21.00	0.03	0.00	0.03				
22.00	0.03	0.00	0.03				
23.00	0.03	0.00	0.03				
24.00	0.03	0.00	0.03				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=5.62" Flow Length=358' Tc=3.1 min CN=98 Runoff=3.85 cfs 0.267 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=3.66" Flow Length=228' Tc=5.1 min CN=80 Runoff=4.70 cfs 0.305 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=5.62" Flow Length=97' Tc=1.0 min CN=98 Runoff=0.14 cfs 0.009 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=3.66" Flow Length=189' Slope=0.0200 '/' Tc=13.7 min CN=80 Runoff=1.84 cfs 0.155 af
Pond 44P: Ex. Basin	Peak Elev=136.26' Storage=0.112 af Inflow=8.43 cfs 0.572 af Primary=4.02 cfs 0.571 af Secondary=0.00 cfs 0.000 af Outflow=4.02 cfs 0.571 af
Link 37L: DA Ex Basin	Inflow=8.43 cfs 0.572 af Primary=8.43 cfs 0.572 af
Link 43L: POA 1 Total	Inflow=5.90 cfs 0.736 af Primary=5.90 cfs 0.736 af
Link 45L: DA Undetained	Inflow=1.88 cfs 0.165 af Primary=1.88 cfs 0.165 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.736 af Average Runoff Depth = 4.21"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.85 cfs @ 12.09 hrs, Volume= 0.267 af, Depth= 5.62"
Routed to Link 37L : DA Ex Basin

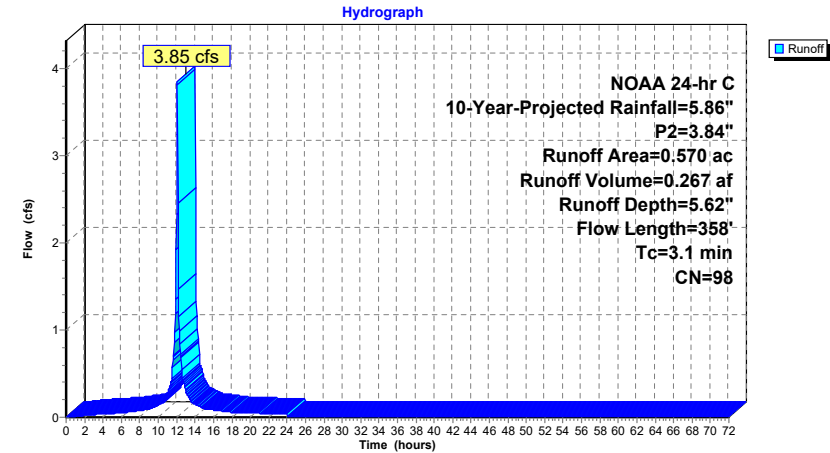
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.1	358	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	5.62	0.00
1.00	0.06	0.00	0.01	53.00	5.86	5.62	0.00
2.00	0.13	0.03	0.02	54.00	5.86	5.62	0.00
3.00	0.21	0.07	0.03	55.00	5.86	5.62	0.00
4.00	0.29	0.13	0.04	56.00	5.86	5.62	0.00
5.00	0.37	0.21	0.04	57.00	5.86	5.62	0.00
6.00	0.46	0.29	0.05	58.00	5.86	5.62	0.00
7.00	0.57	0.38	0.06	59.00	5.86	5.62	0.00
8.00	0.70	0.51	0.08	60.00	5.86	5.62	0.00
9.00	0.86	0.65	0.09	61.00	5.86	5.62	0.00
10.00	1.07	0.86	0.14	62.00	5.86	5.62	0.00
11.00	1.41	1.19	0.26	63.00	5.86	5.62	0.00
12.00	2.79	2.56	2.32	64.00	5.86	5.62	0.00
13.00	4.45	4.22	0.30	65.00	5.86	5.62	0.00
14.00	4.79	4.56	0.15	66.00	5.86	5.62	0.00
15.00	5.00	4.77	0.10	67.00	5.86	5.62	0.00
16.00	5.16	4.92	0.08	68.00	5.86	5.62	0.00
17.00	5.29	5.05	0.07	69.00	5.86	5.62	0.00
18.00	5.40	5.16	0.06	70.00	5.86	5.62	0.00
19.00	5.49	5.25	0.05	71.00	5.86	5.62	0.00
20.00	5.57	5.34	0.05	72.00	5.86	5.62	0.00
21.00	5.65	5.42	0.04				
22.00	5.73	5.49	0.04				
23.00	5.80	5.56	0.04				
24.00	5.86	5.62	0.04				
25.00	5.86	5.62	0.00				
26.00	5.86	5.62	0.00				
27.00	5.86	5.62	0.00				
28.00	5.86	5.62	0.00				
29.00	5.86	5.62	0.00				
30.00	5.86	5.62	0.00				
31.00	5.86	5.62	0.00				
32.00	5.86	5.62	0.00				
33.00	5.86	5.62	0.00				
34.00	5.86	5.62	0.00				
35.00	5.86	5.62	0.00				
36.00	5.86	5.62	0.00				
37.00	5.86	5.62	0.00				
38.00	5.86	5.62	0.00				
39.00	5.86	5.62	0.00				
40.00	5.86	5.62	0.00				
41.00	5.86	5.62	0.00				
42.00	5.86	5.62	0.00				
43.00	5.86	5.62	0.00				
44.00	5.86	5.62	0.00				
45.00	5.86	5.62	0.00				
46.00	5.86	5.62	0.00				
47.00	5.86	5.62	0.00				
48.00	5.86	5.62	0.00				
49.00	5.86	5.62	0.00				
50.00	5.86	5.62	0.00				
51.00	5.86	5.62	0.00				

Summary for Subcatchment 39S: Pervious

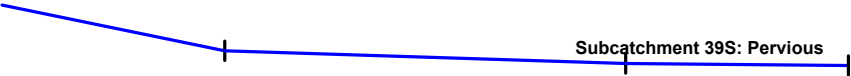
[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.70 cfs @ 12.12 hrs, Volume= 0.305 af, Depth= 3.66"
Routed to Link 37L : DA Ex Basin

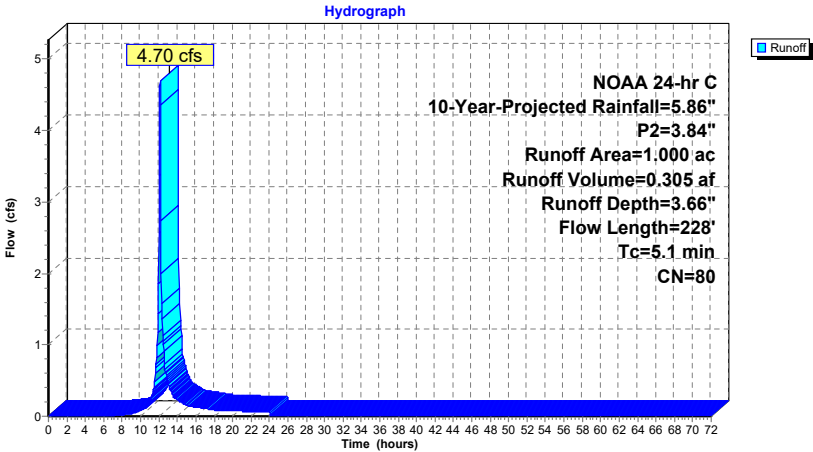
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
1.000	80	>75% Grass cover, Good, HSG D
1.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.1300	0.24		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.8	108	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.1	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	3.66	0.00
1.00	0.06	0.00	0.00	53.00	5.86	3.66	0.00
2.00	0.13	0.00	0.00	54.00	5.86	3.66	0.00
3.00	0.21	0.00	0.00	55.00	5.86	3.66	0.00
4.00	0.29	0.00	0.00	56.00	5.86	3.66	0.00
5.00	0.37	0.00	0.00	57.00	5.86	3.66	0.00
6.00	0.46	0.00	0.00	58.00	5.86	3.66	0.00
7.00	0.57	0.00	0.01	59.00	5.86	3.66	0.00
8.00	0.70	0.02	0.02	60.00	5.86	3.66	0.00
9.00	0.86	0.04	0.04	61.00	5.86	3.66	0.00
10.00	1.07	0.11	0.08	62.00	5.86	3.66	0.00
11.00	1.41	0.24	0.21	63.00	5.86	3.66	0.00
12.00	2.79	1.10	2.56	64.00	5.86	3.66	0.00
13.00	4.45	2.42	0.46	65.00	5.86	3.66	0.00
14.00	4.79	2.71	0.23	66.00	5.86	3.66	0.00
15.00	5.00	2.90	0.15	67.00	5.86	3.66	0.00
16.00	5.16	3.03	0.13	68.00	5.86	3.66	0.00
17.00	5.29	3.15	0.11	69.00	5.86	3.66	0.00
18.00	5.40	3.24	0.09	70.00	5.86	3.66	0.00
19.00	5.49	3.32	0.08	71.00	5.86	3.66	0.00
20.00	5.57	3.40	0.07	72.00	5.86	3.66	0.00
21.00	5.65	3.47	0.07				
22.00	5.73	3.54	0.06				
23.00	5.80	3.60	0.06				
24.00	5.86	3.66	0.06				
25.00	5.86	3.66	0.00				
26.00	5.86	3.66	0.00				
27.00	5.86	3.66	0.00				
28.00	5.86	3.66	0.00				
29.00	5.86	3.66	0.00				
30.00	5.86	3.66	0.00				
31.00	5.86	3.66	0.00				
32.00	5.86	3.66	0.00				
33.00	5.86	3.66	0.00				
34.00	5.86	3.66	0.00				
35.00	5.86	3.66	0.00				
36.00	5.86	3.66	0.00				
37.00	5.86	3.66	0.00				
38.00	5.86	3.66	0.00				
39.00	5.86	3.66	0.00				
40.00	5.86	3.66	0.00				
41.00	5.86	3.66	0.00				
42.00	5.86	3.66	0.00				
43.00	5.86	3.66	0.00				
44.00	5.86	3.66	0.00				
45.00	5.86	3.66	0.00				
46.00	5.86	3.66	0.00				
47.00	5.86	3.66	0.00				
48.00	5.86	3.66	0.00				
49.00	5.86	3.66	0.00				
50.00	5.86	3.66	0.00				
51.00	5.86	3.66	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.14 cfs @ 12.06 hrs, Volume= 0.009 af, Depth= 5.62"
Routed to Link 45L : DA Undetained

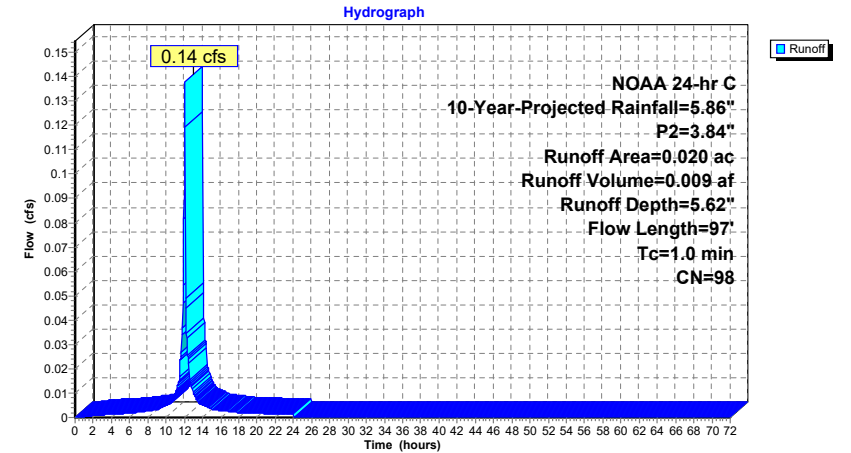
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	16	0.0050	0.60		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.0	97	Total			



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

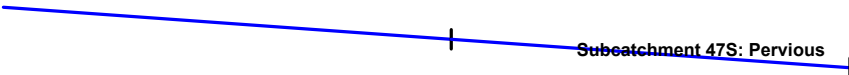
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.06	0.00	0.00
2.00	0.13	0.03	0.00
3.00	0.21	0.07	0.00
4.00	0.29	0.13	0.00
5.00	0.37	0.21	0.00
6.00	0.46	0.29	0.00
7.00	0.57	0.38	0.00
8.00	0.70	0.51	0.00
9.00	0.86	0.65	0.00
10.00	1.07	0.86	0.00
11.00	1.41	1.19	0.01
12.00	2.79	2.56	0.09
13.00	4.45	4.22	0.01
14.00	4.79	4.56	0.01
15.00	5.00	4.77	0.00
16.00	5.16	4.92	0.00
17.00	5.29	5.05	0.00
18.00	5.40	5.16	0.00
19.00	5.49	5.25	0.00
20.00	5.57	5.34	0.00
21.00	5.65	5.42	0.00
22.00	5.73	5.49	0.00
23.00	5.80	5.56	0.00
24.00	5.86	5.62	0.00
25.00	5.86	5.62	0.00
26.00	5.86	5.62	0.00
27.00	5.86	5.62	0.00
28.00	5.86	5.62	0.00
29.00	5.86	5.62	0.00
30.00	5.86	5.62	0.00
31.00	5.86	5.62	0.00
32.00	5.86	5.62	0.00
33.00	5.86	5.62	0.00
34.00	5.86	5.62	0.00
35.00	5.86	5.62	0.00
36.00	5.86	5.62	0.00
37.00	5.86	5.62	0.00
38.00	5.86	5.62	0.00
39.00	5.86	5.62	0.00
40.00	5.86	5.62	0.00
41.00	5.86	5.62	0.00
42.00	5.86	5.62	0.00
43.00	5.86	5.62	0.00
44.00	5.86	5.62	0.00
45.00	5.86	5.62	0.00
46.00	5.86	5.62	0.00
47.00	5.86	5.62	0.00
48.00	5.86	5.62	0.00
49.00	5.86	5.62	0.00
50.00	5.86	5.62	0.00
51.00	5.86	5.62	0.00

Summary for Subcatchment 47S: Pervious

Runoff = 1.84 cfs @ 12.22 hrs, Volume= 0.155 af, Depth= 3.66"
Routed to Link 45L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description			
0.510	80	>75% Grass cover, Good, HSG D			
0.510		100.00% Pervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.0	100	0.0200	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	189	Total			



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	3.66	0.00
1.00	0.06	0.00	0.00	53.00	5.86	3.66	0.00
2.00	0.13	0.00	0.00	54.00	5.86	3.66	0.00
3.00	0.21	0.00	0.00	55.00	5.86	3.66	0.00
4.00	0.29	0.00	0.00	56.00	5.86	3.66	0.00
5.00	0.37	0.00	0.00	57.00	5.86	3.66	0.00
6.00	0.46	0.00	0.00	58.00	5.86	3.66	0.00
7.00	0.57	0.00	0.00	59.00	5.86	3.66	0.00
8.00	0.70	0.02	0.01	60.00	5.86	3.66	0.00
9.00	0.86	0.04	0.02	61.00	5.86	3.66	0.00
10.00	1.07	0.11	0.04	62.00	5.86	3.66	0.00
11.00	1.41	0.24	0.09	63.00	5.86	3.66	0.00
12.00	2.79	1.10	0.71	64.00	5.86	3.66	0.00
13.00	4.45	2.42	0.28	65.00	5.86	3.66	0.00
14.00	4.79	2.71	0.12	66.00	5.86	3.66	0.00
15.00	5.00	2.90	0.08	67.00	5.86	3.66	0.00
16.00	5.16	3.03	0.07	68.00	5.86	3.66	0.00
17.00	5.29	3.15	0.06	69.00	5.86	3.66	0.00
18.00	5.40	3.24	0.05	70.00	5.86	3.66	0.00
19.00	5.49	3.32	0.04	71.00	5.86	3.66	0.00
20.00	5.57	3.40	0.04	72.00	5.86	3.66	0.00
21.00	5.65	3.47	0.04				
22.00	5.73	3.54	0.03				
23.00	5.80	3.60	0.03				
24.00	5.86	3.66	0.03				
25.00	5.86	3.66	0.00				
26.00	5.86	3.66	0.00				
27.00	5.86	3.66	0.00				
28.00	5.86	3.66	0.00				
29.00	5.86	3.66	0.00				
30.00	5.86	3.66	0.00				
31.00	5.86	3.66	0.00				
32.00	5.86	3.66	0.00				
33.00	5.86	3.66	0.00				
34.00	5.86	3.66	0.00				
35.00	5.86	3.66	0.00				
36.00	5.86	3.66	0.00				
37.00	5.86	3.66	0.00				
38.00	5.86	3.66	0.00				
39.00	5.86	3.66	0.00				
40.00	5.86	3.66	0.00				
41.00	5.86	3.66	0.00				
42.00	5.86	3.66	0.00				
43.00	5.86	3.66	0.00				
44.00	5.86	3.66	0.00				
45.00	5.86	3.66	0.00				
46.00	5.86	3.66	0.00				
47.00	5.86	3.66	0.00				
48.00	5.86	3.66	0.00				
49.00	5.86	3.66	0.00				
50.00	5.86	3.66	0.00				
51.00	5.86	3.66	0.00				

Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 4.37" for 10-Year-Projected event
Inflow = 8.43 cfs @ 12.10 hrs, Volume= 0.572 af
Outflow = 4.02 cfs @ 12.22 hrs, Volume= 0.571 af, Atten= 52%, Lag= 7.2 min
Primary = 4.02 cfs @ 12.22 hrs, Volume= 0.571 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.26' @ 12.22 hrs Surf.Area= 0.103 ac Storage= 0.112 af

Plug-Flow detention time= 14.4 min calculated for 0.571 af (100% of inflow)
Center-of-Mass det. time= 13.8 min (796.6 - 782.9)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

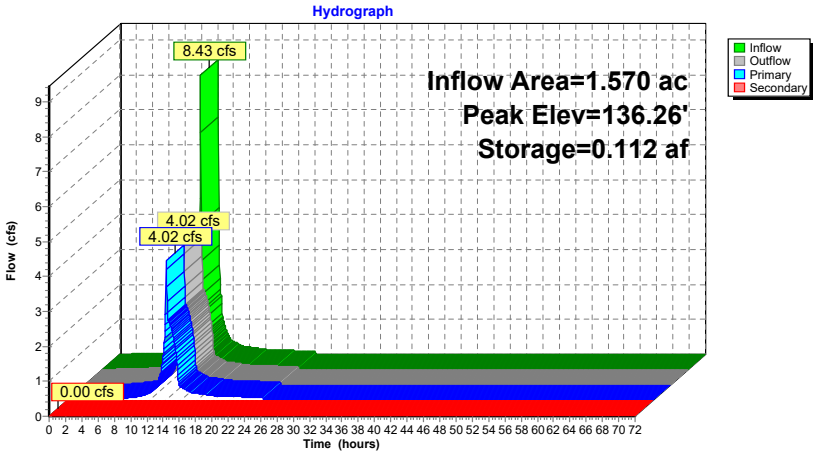
Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' breadth Broad-Crested Rectangular Weir Head (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) 2.34 2.50 2.70 2.68 2.66 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=3.83 cfs @ 12.22 hrs HW=136.24' (Free Discharge)
1=Orifice/Grate (Orifice Controls 2.38 cfs @ 6.83 fps)
2=Orifice/Grate (Weir Controls 1.45 cfs @ 1.10 fps)

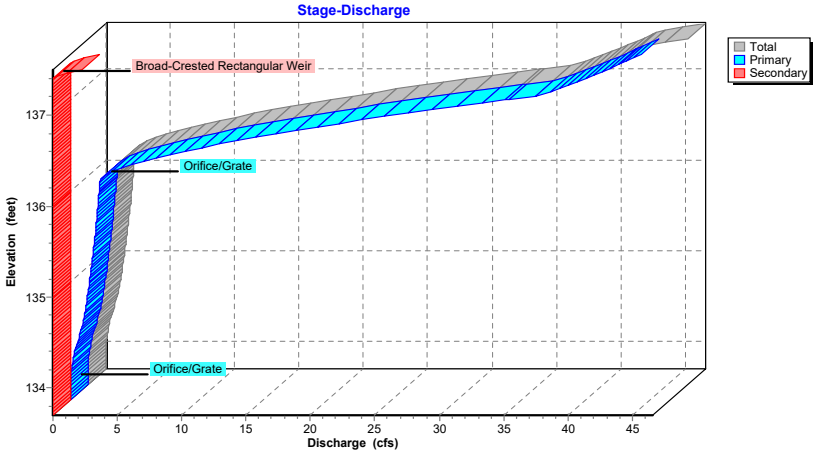
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)
3=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

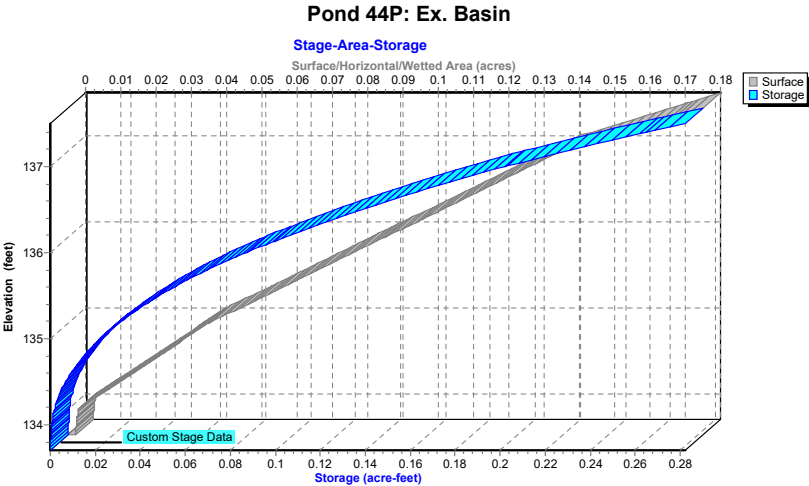


Pond 44P: Ex. Basin



Pond 44P: Ex. Basin





Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.03	0.001	133.98	0.03	0.03	0.00
5.00	0.04	0.001	134.01	0.04	0.04	0.00
7.50	0.08	0.001	134.05	0.08	0.08	0.00
10.00	0.22	0.002	134.16	0.22	0.22	0.00
12.50	1.68	0.097	136.10	2.30	2.30	0.00
15.00	0.25	0.002	134.19	0.26	0.26	0.00
17.50	0.16	0.001	134.12	0.16	0.16	0.00
20.00	0.12	0.001	134.09	0.12	0.12	0.00
22.50	0.10	0.001	134.07	0.10	0.10	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

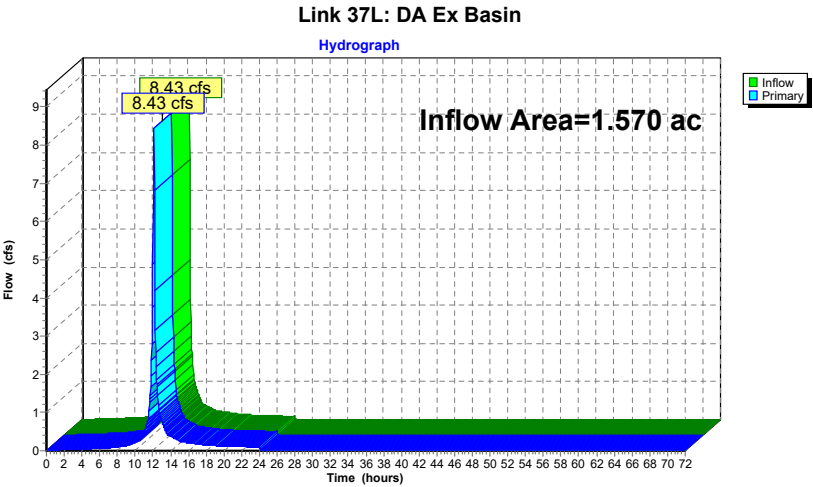
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 4.37" for 10-Year-Projected event
Inflow = 8.43 cfs @ 12.10 hrs, Volume= 0.572 af
Primary = 8.43 cfs @ 12.10 hrs, Volume= 0.572 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



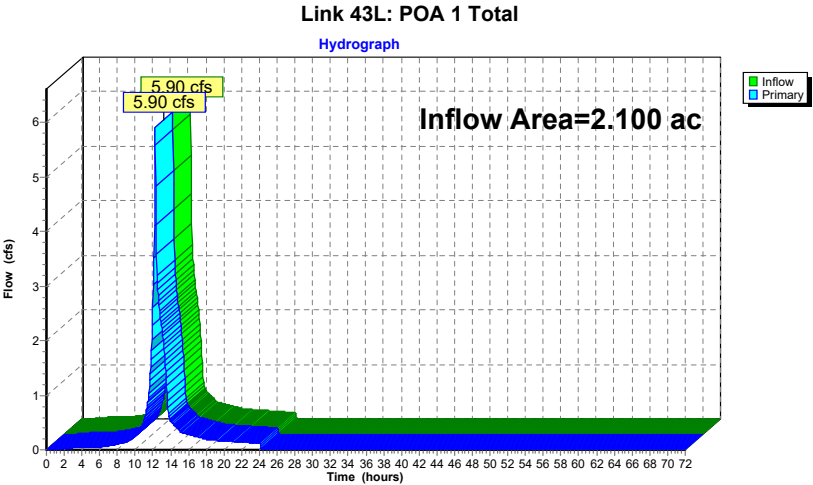
Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.01	0.00	0.01	53.00	0.00	0.00	0.00
2.00	0.02	0.00	0.02	54.00	0.00	0.00	0.00
3.00	0.03	0.00	0.03	55.00	0.00	0.00	0.00
4.00	0.04	0.00	0.04	56.00	0.00	0.00	0.00
5.00	0.04	0.00	0.04	57.00	0.00	0.00	0.00
6.00	0.05	0.00	0.05	58.00	0.00	0.00	0.00
7.00	0.07	0.00	0.07	59.00	0.00	0.00	0.00
8.00	0.10	0.00	0.10	60.00	0.00	0.00	0.00
9.00	0.13	0.00	0.13	61.00	0.00	0.00	0.00
10.00	0.22	0.00	0.22	62.00	0.00	0.00	0.00
11.00	0.47	0.00	0.47	63.00	0.00	0.00	0.00
12.00	4.88	0.00	4.88	64.00	0.00	0.00	0.00
13.00	0.77	0.00	0.77	65.00	0.00	0.00	0.00
14.00	0.38	0.00	0.38	66.00	0.00	0.00	0.00
15.00	0.25	0.00	0.25	67.00	0.00	0.00	0.00
16.00	0.21	0.00	0.21	68.00	0.00	0.00	0.00
17.00	0.18	0.00	0.18	69.00	0.00	0.00	0.00
18.00	0.14	0.00	0.14	70.00	0.00	0.00	0.00
19.00	0.13	0.00	0.13	71.00	0.00	0.00	0.00
20.00	0.12	0.00	0.12	72.00	0.00	0.00	0.00
21.00	0.11	0.00	0.11				
22.00	0.11	0.00	0.11				
23.00	0.10	0.00	0.10				
24.00	0.11	0.00	0.11				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 4.21" for 10-Year-Projected event
Inflow = 5.90 cfs @ 12.22 hrs, Volume= 0.736 af
Primary = 5.90 cfs @ 12.22 hrs, Volume= 0.736 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



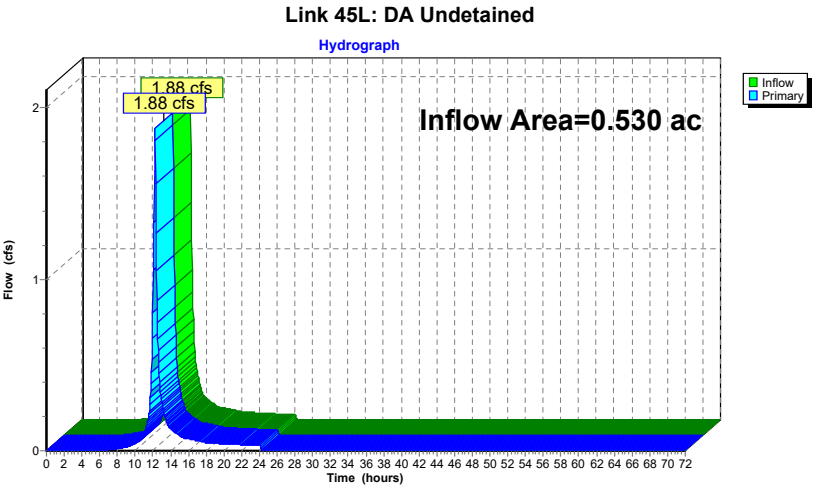
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.02	0.00	0.02	54.00	0.00	0.00	0.00
3.00	0.03	0.00	0.03	55.00	0.00	0.00	0.00
4.00	0.04	0.00	0.04	56.00	0.00	0.00	0.00
5.00	0.04	0.00	0.04	57.00	0.00	0.00	0.00
6.00	0.05	0.00	0.05	58.00	0.00	0.00	0.00
7.00	0.07	0.00	0.07	59.00	0.00	0.00	0.00
8.00	0.11	0.00	0.11	60.00	0.00	0.00	0.00
9.00	0.15	0.00	0.15	61.00	0.00	0.00	0.00
10.00	0.26	0.00	0.26	62.00	0.00	0.00	0.00
11.00	0.54	0.00	0.54	63.00	0.00	0.00	0.00
12.00	2.60	0.00	2.60	64.00	0.00	0.00	0.00
13.00	2.21	0.00	2.21	65.00	0.00	0.00	0.00
14.00	0.52	0.00	0.52	66.00	0.00	0.00	0.00
15.00	0.35	0.00	0.35	67.00	0.00	0.00	0.00
16.00	0.28	0.00	0.28	68.00	0.00	0.00	0.00
17.00	0.24	0.00	0.24	69.00	0.00	0.00	0.00
18.00	0.19	0.00	0.19	70.00	0.00	0.00	0.00
19.00	0.17	0.00	0.17	71.00	0.00	0.00	0.00
20.00	0.16	0.00	0.16	72.00	0.00	0.00	0.00
21.00	0.15	0.00	0.15				
22.00	0.14	0.00	0.14				
23.00	0.13	0.00	0.13				
24.00	0.13	0.00	0.13				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 45L: DA Undetained

Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 3.73" for 10-Year-Projected event
Inflow = 1.88 cfs @ 12.22 hrs, Volume= 0.165 af
Primary = 1.88 cfs @ 12.22 hrs, Volume= 0.165 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.01	0.00	0.01	60.00	0.00	0.00	0.00
9.00	0.02	0.00	0.02	61.00	0.00	0.00	0.00
10.00	0.04	0.00	0.04	62.00	0.00	0.00	0.00
11.00	0.10	0.00	0.10	63.00	0.00	0.00	0.00
12.00	0.80	0.00	0.80	64.00	0.00	0.00	0.00
13.00	0.29	0.00	0.29	65.00	0.00	0.00	0.00
14.00	0.13	0.00	0.13	66.00	0.00	0.00	0.00
15.00	0.09	0.00	0.09	67.00	0.00	0.00	0.00
16.00	0.07	0.00	0.07	68.00	0.00	0.00	0.00
17.00	0.06	0.00	0.06	69.00	0.00	0.00	0.00
18.00	0.05	0.00	0.05	70.00	0.00	0.00	0.00
19.00	0.04	0.00	0.04	71.00	0.00	0.00	0.00
20.00	0.04	0.00	0.04	72.00	0.00	0.00	0.00
21.00	0.04	0.00	0.04				
22.00	0.03	0.00	0.03				
23.00	0.03	0.00	0.03				
24.00	0.03	0.00	0.03				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=8.42" Flow Length=358' Tc=3.2 min CN=98 Runoff=5.68 cfs 0.400 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=6.25" Flow Length=228' Tc=5.4 min CN=80 Runoff=7.75 cfs 0.521 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=8.42" Flow Length=97' Tc=1.1 min CN=98 Runoff=0.20 cfs 0.014 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=6.25" Flow Length=189' Slope=0.0200 '/' Tc=14.7 min CN=80 Runoff=2.98 cfs 0.265 af
Pond 44P: Ex. Basin	Peak Elev=136.51' Storage=0.139 af Inflow=13.23 cfs 0.920 af Primary=11.40 cfs 0.920 af Secondary=0.00 cfs 0.000 af Outflow=11.40 cfs 0.920 af
Link 37L: DA Ex Basin	Inflow=13.23 cfs 0.920 af Primary=13.23 cfs 0.920 af
Link 43L: POA 1 Total	Inflow=14.04 cfs 1.200 af Primary=14.04 cfs 1.200 af
Link 45L: DA Undetained	Inflow=3.05 cfs 0.280 af Primary=3.05 cfs 0.280 af

Total Runoff Area = 2.100 ac Runoff Volume = 1.200 af Average Runoff Depth = 6.86"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 105% of capacity of segment #3

Runoff = 5.68 cfs @ 12.09 hrs, Volume= 0.400 af, Depth= 8.42"
Routed to Link 37L : DA Ex Basin

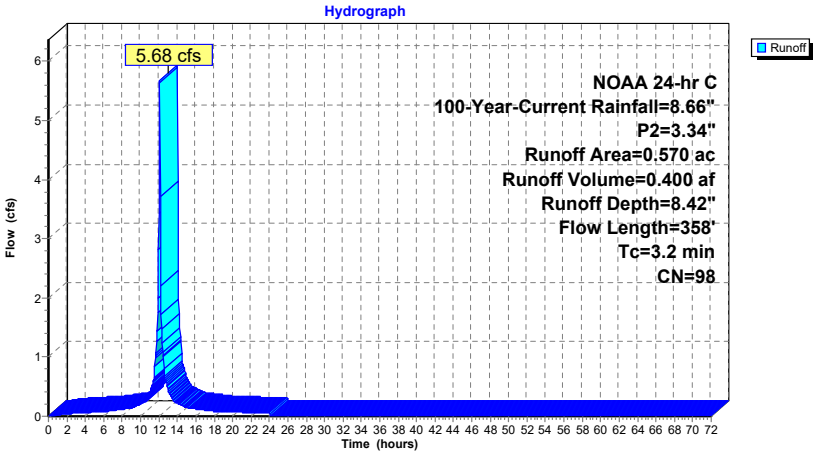
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.2	358	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	8.42	0.00
1.00	0.09	0.01	0.02	53.00	8.66	8.42	0.00
2.00	0.20	0.07	0.04	54.00	8.66	8.42	0.00
3.00	0.31	0.15	0.05	55.00	8.66	8.42	0.00
4.00	0.42	0.25	0.06	56.00	8.66	8.42	0.00
5.00	0.55	0.36	0.07	57.00	8.66	8.42	0.00
6.00	0.69	0.49	0.08	58.00	8.66	8.42	0.00
7.00	0.84	0.64	0.10	59.00	8.66	8.42	0.00
8.00	1.04	0.83	0.12	60.00	8.66	8.42	0.00
9.00	1.26	1.05	0.14	61.00	8.66	8.42	0.00
10.00	1.58	1.36	0.21	62.00	8.66	8.42	0.00
11.00	2.08	1.85	0.39	63.00	8.66	8.42	0.00
12.00	4.13	3.89	3.43	64.00	8.66	8.42	0.00
13.00	6.58	6.34	0.45	65.00	8.66	8.42	0.00
14.00	7.08	6.84	0.22	66.00	8.66	8.42	0.00
15.00	7.40	7.16	0.15	67.00	8.66	8.42	0.00
16.00	7.62	7.38	0.12	68.00	8.66	8.42	0.00
17.00	7.82	7.58	0.10	69.00	8.66	8.42	0.00
18.00	7.97	7.73	0.08	70.00	8.66	8.42	0.00
19.00	8.11	7.87	0.08	71.00	8.66	8.42	0.00
20.00	8.24	8.00	0.07	72.00	8.66	8.42	0.00
21.00	8.35	8.11	0.07				
22.00	8.46	8.22	0.06				
23.00	8.57	8.33	0.06				
24.00	8.66	8.42	0.06				
25.00	8.66	8.42	0.00				
26.00	8.66	8.42	0.00				
27.00	8.66	8.42	0.00				
28.00	8.66	8.42	0.00				
29.00	8.66	8.42	0.00				
30.00	8.66	8.42	0.00				
31.00	8.66	8.42	0.00				
32.00	8.66	8.42	0.00				
33.00	8.66	8.42	0.00				
34.00	8.66	8.42	0.00				
35.00	8.66	8.42	0.00				
36.00	8.66	8.42	0.00				
37.00	8.66	8.42	0.00				
38.00	8.66	8.42	0.00				
39.00	8.66	8.42	0.00				
40.00	8.66	8.42	0.00				
41.00	8.66	8.42	0.00				
42.00	8.66	8.42	0.00				
43.00	8.66	8.42	0.00				
44.00	8.66	8.42	0.00				
45.00	8.66	8.42	0.00				
46.00	8.66	8.42	0.00				
47.00	8.66	8.42	0.00				
48.00	8.66	8.42	0.00				
49.00	8.66	8.42	0.00				
50.00	8.66	8.42	0.00				
51.00	8.66	8.42	0.00				

Summary for Subcatchment 39S: Pervious

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 137% of capacity of segment #3

Runoff = 7.75 cfs @ 12.12 hrs, Volume= 0.521 af, Depth= 6.25"
Routed to Link 37L : DA Ex Basin

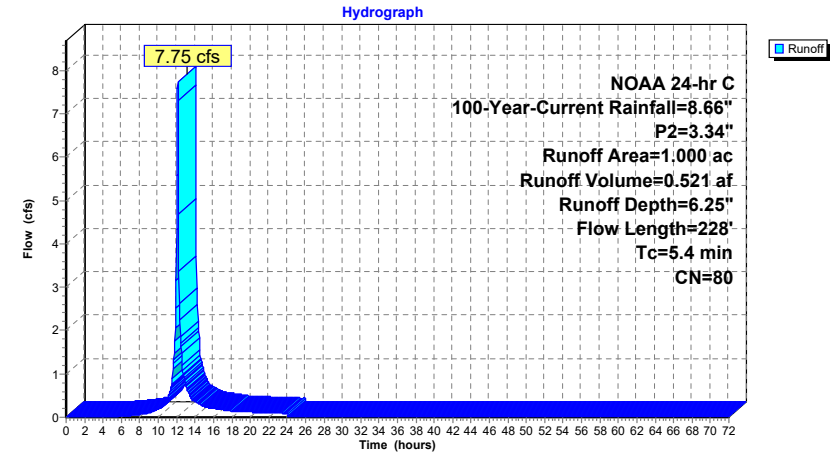
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description			
1.000	80	>75% Grass cover, Good, HSG D			
1.000		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.4	60	0.1300	0.23		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.8	108	0.0200	2.28		
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.4	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	6.25	0.00
1.00	0.09	0.00	0.00	53.00	8.66	6.25	0.00
2.00	0.20	0.00	0.00	54.00	8.66	6.25	0.00
3.00	0.31	0.00	0.00	55.00	8.66	6.25	0.00
4.00	0.42	0.00	0.00	56.00	8.66	6.25	0.00
5.00	0.55	0.00	0.00	57.00	8.66	6.25	0.00
6.00	0.69	0.01	0.02	58.00	8.66	6.25	0.00
7.00	0.84	0.04	0.04	59.00	8.66	6.25	0.00
8.00	1.04	0.10	0.07	60.00	8.66	6.25	0.00
9.00	1.26	0.18	0.10	61.00	8.66	6.25	0.00
10.00	1.58	0.33	0.19	62.00	8.66	6.25	0.00
11.00	2.08	0.61	0.42	63.00	8.66	6.25	0.00
12.00	4.13	2.15	4.32	64.00	8.66	6.25	0.00
13.00	6.58	4.31	0.74	65.00	8.66	6.25	0.00
14.00	7.08	4.77	0.36	66.00	8.66	6.25	0.00
15.00	7.40	5.06	0.24	67.00	8.66	6.25	0.00
16.00	7.62	5.27	0.20	68.00	8.66	6.25	0.00
17.00	7.82	5.45	0.17	69.00	8.66	6.25	0.00
18.00	7.97	5.60	0.14	70.00	8.66	6.25	0.00
19.00	8.11	5.73	0.12	71.00	8.66	6.25	0.00
20.00	8.24	5.85	0.12	72.00	8.66	6.25	0.00
21.00	8.35	5.96	0.11				
22.00	8.46	6.06	0.10				
23.00	8.57	6.16	0.09				
24.00	8.66	6.25	0.10				
25.00	8.66	6.25	0.00				
26.00	8.66	6.25	0.00				
27.00	8.66	6.25	0.00				
28.00	8.66	6.25	0.00				
29.00	8.66	6.25	0.00				
30.00	8.66	6.25	0.00				
31.00	8.66	6.25	0.00				
32.00	8.66	6.25	0.00				
33.00	8.66	6.25	0.00				
34.00	8.66	6.25	0.00				
35.00	8.66	6.25	0.00				
36.00	8.66	6.25	0.00				
37.00	8.66	6.25	0.00				
38.00	8.66	6.25	0.00				
39.00	8.66	6.25	0.00				
40.00	8.66	6.25	0.00				
41.00	8.66	6.25	0.00				
42.00	8.66	6.25	0.00				
43.00	8.66	6.25	0.00				
44.00	8.66	6.25	0.00				
45.00	8.66	6.25	0.00				
46.00	8.66	6.25	0.00				
47.00	8.66	6.25	0.00				
48.00	8.66	6.25	0.00				
49.00	8.66	6.25	0.00				
50.00	8.66	6.25	0.00				
51.00	8.66	6.25	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.20 cfs @ 12.06 hrs, Volume= 0.014 af, Depth= 8.42"
Routed to Link 45L : DA Undetained

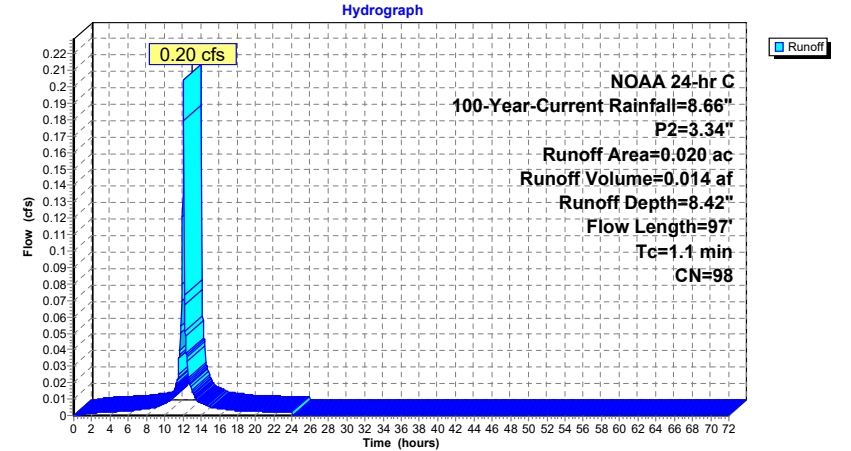
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	16	0.0050	0.56		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	97	Total			



Subcatchment 46S: Impervious



2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

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Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	8.42	0.00
1.00	0.09	0.01	0.00	53.00	8.66	8.42	0.00
2.00	0.20	0.07	0.00	54.00	8.66	8.42	0.00
3.00	0.31	0.15	0.00	55.00	8.66	8.42	0.00
4.00	0.42	0.25	0.00	56.00	8.66	8.42	0.00
5.00	0.55	0.36	0.00	57.00	8.66	8.42	0.00
6.00	0.69	0.49	0.00	58.00	8.66	8.42	0.00
7.00	0.84	0.64	0.00	59.00	8.66	8.42	0.00
8.00	1.04	0.83	0.00	60.00	8.66	8.42	0.00
9.00	1.26	1.05	0.00	61.00	8.66	8.42	0.00
10.00	1.58	1.36	0.01	62.00	8.66	8.42	0.00
11.00	2.08	1.85	0.01	63.00	8.66	8.42	0.00
12.00	4.13	3.89	0.14	64.00	8.66	8.42	0.00
13.00	6.58	6.34	0.02	65.00	8.66	8.42	0.00
14.00	7.08	6.84	0.01	66.00	8.66	8.42	0.00
15.00	7.40	7.16	0.01	67.00	8.66	8.42	0.00
16.00	7.62	7.38	0.00	68.00	8.66	8.42	0.00
17.00	7.82	7.58	0.00	69.00	8.66	8.42	0.00
18.00	7.97	7.73	0.00	70.00	8.66	8.42	0.00
19.00	8.11	7.87	0.00	71.00	8.66	8.42	0.00
20.00	8.24	8.00	0.00	72.00	8.66	8.42	0.00
21.00	8.35	8.11	0.00				
22.00	8.46	8.22	0.00				
23.00	8.57	8.33	0.00				
24.00	8.66	8.42	0.00				
25.00	8.66	8.42	0.00				
26.00	8.66	8.42	0.00				
27.00	8.66	8.42	0.00				
28.00	8.66	8.42	0.00				
29.00	8.66	8.42	0.00				
30.00	8.66	8.42	0.00				
31.00	8.66	8.42	0.00				
32.00	8.66	8.42	0.00				
33.00	8.66	8.42	0.00				
34.00	8.66	8.42	0.00				
35.00	8.66	8.42	0.00				
36.00	8.66	8.42	0.00				
37.00	8.66	8.42	0.00				
38.00	8.66	8.42	0.00				
39.00	8.66	8.42	0.00				
40.00	8.66	8.42	0.00				
41.00	8.66	8.42	0.00				
42.00	8.66	8.42	0.00				
43.00	8.66	8.42	0.00				
44.00	8.66	8.42	0.00				
45.00	8.66	8.42	0.00				
46.00	8.66	8.42	0.00				
47.00	8.66	8.42	0.00				
48.00	8.66	8.42	0.00				
49.00	8.66	8.42	0.00				
50.00	8.66	8.42	0.00				
51.00	8.66	8.42	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Printed 7/6/2026

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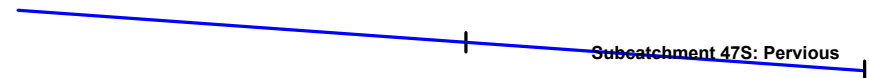
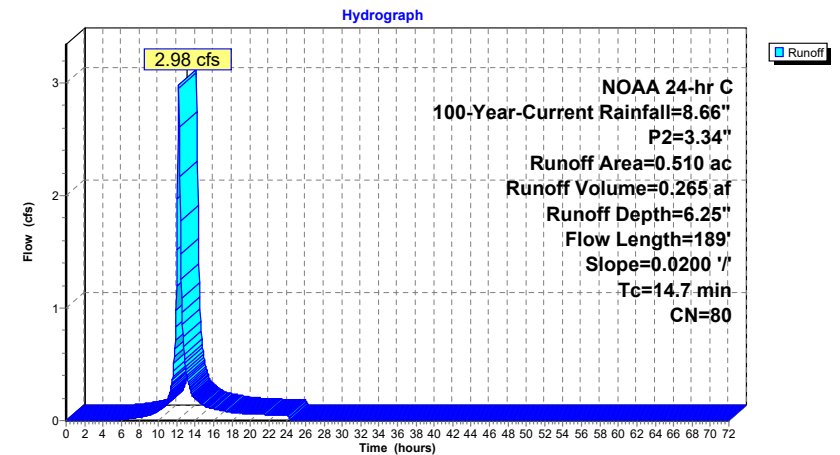
Summary for Subcatchment 47S: Pervious

Runoff = 2.98 cfs @ 12.23 hrs, Volume= 0.265 af, Depth= 6.25"
Routed to Link 45L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.510	80	>75% Grass cover, Good, HSG D
0.510		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.0	100	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.7	189	Total			

**Subcatchment 47S: Pervious**

Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	6.25	0.00
1.00	0.09	0.00	0.00	53.00	8.66	6.25	0.00
2.00	0.20	0.00	0.00	54.00	8.66	6.25	0.00
3.00	0.31	0.00	0.00	55.00	8.66	6.25	0.00
4.00	0.42	0.00	0.00	56.00	8.66	6.25	0.00
5.00	0.55	0.00	0.00	57.00	8.66	6.25	0.00
6.00	0.69	0.01	0.01	58.00	8.66	6.25	0.00
7.00	0.84	0.04	0.02	59.00	8.66	6.25	0.00
8.00	1.04	0.10	0.03	60.00	8.66	6.25	0.00
9.00	1.26	0.18	0.05	61.00	8.66	6.25	0.00
10.00	1.58	0.33	0.09	62.00	8.66	6.25	0.00
11.00	2.08	0.61	0.18	63.00	8.66	6.25	0.00
12.00	4.13	2.15	1.20	64.00	8.66	6.25	0.00
13.00	6.58	4.31	0.45	65.00	8.66	6.25	0.00
14.00	7.08	4.77	0.19	66.00	8.66	6.25	0.00
15.00	7.40	5.06	0.13	67.00	8.66	6.25	0.00
16.00	7.62	5.27	0.10	68.00	8.66	6.25	0.00
17.00	7.82	5.45	0.09	69.00	8.66	6.25	0.00
18.00	7.97	5.60	0.07	70.00	8.66	6.25	0.00
19.00	8.11	5.73	0.06	71.00	8.66	6.25	0.00
20.00	8.24	5.85	0.06	72.00	8.66	6.25	0.00
21.00	8.35	5.96	0.06				
22.00	8.46	6.06	0.05				
23.00	8.57	6.16	0.05				
24.00	8.66	6.25	0.04				
25.00	8.66	6.25	0.00				
26.00	8.66	6.25	0.00				
27.00	8.66	6.25	0.00				
28.00	8.66	6.25	0.00				
29.00	8.66	6.25	0.00				
30.00	8.66	6.25	0.00				
31.00	8.66	6.25	0.00				
32.00	8.66	6.25	0.00				
33.00	8.66	6.25	0.00				
34.00	8.66	6.25	0.00				
35.00	8.66	6.25	0.00				
36.00	8.66	6.25	0.00				
37.00	8.66	6.25	0.00				
38.00	8.66	6.25	0.00				
39.00	8.66	6.25	0.00				
40.00	8.66	6.25	0.00				
41.00	8.66	6.25	0.00				
42.00	8.66	6.25	0.00				
43.00	8.66	6.25	0.00				
44.00	8.66	6.25	0.00				
45.00	8.66	6.25	0.00				
46.00	8.66	6.25	0.00				
47.00	8.66	6.25	0.00				
48.00	8.66	6.25	0.00				
49.00	8.66	6.25	0.00				
50.00	8.66	6.25	0.00				
51.00	8.66	6.25	0.00				

Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 7.04" for 100-Year-Current event
Inflow = 13.23 cfs @ 12.10 hrs, Volume= 0.920 af
Outflow = 11.40 cfs @ 12.15 hrs, Volume= 0.920 af, Atten= 14%, Lag= 3.0 min
Primary = 11.40 cfs @ 12.15 hrs, Volume= 0.920 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.51' @ 12.15 hrs Surf.Area= 0.115 ac Storage= 0.139 af

Plug-Flow detention time= 13.0 min calculated for 0.920 af (100% of inflow)
Center-of-Mass det. time= 12.5 min (786.8 - 774.4)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' 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) 2.34 2.50 2.70 2.68 2.68 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

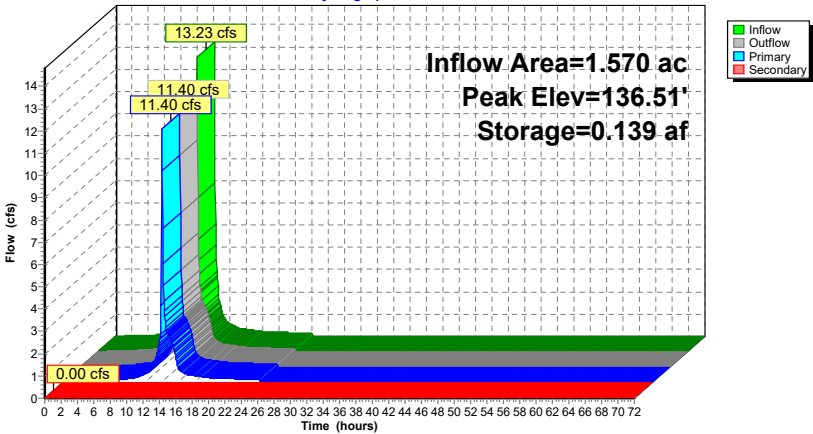
Primary OutFlow Max=11.27 cfs @ 12.15 hrs HW=136.50' (Free Discharge)
1=Orifice/Grate (Orifice Controls 2.53 cfs @ 7.26 fps)
2=Orifice/Grate (Weir Controls 8.74 cfs @ 2.00 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)
3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)



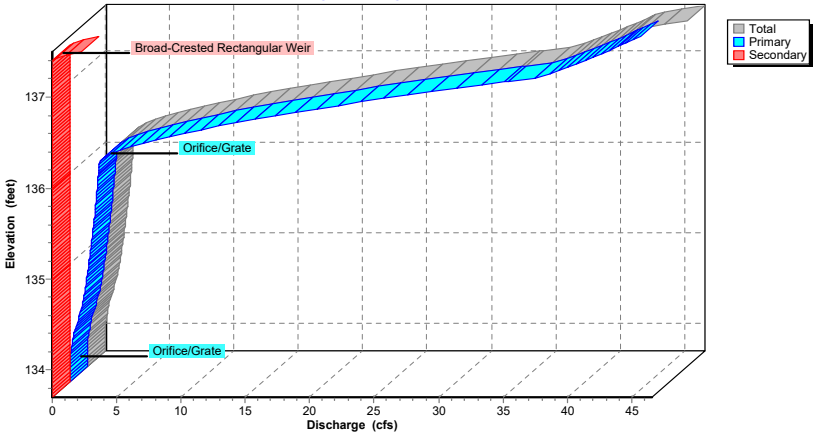
Pond 44P: Ex. Basin

Hydrograph



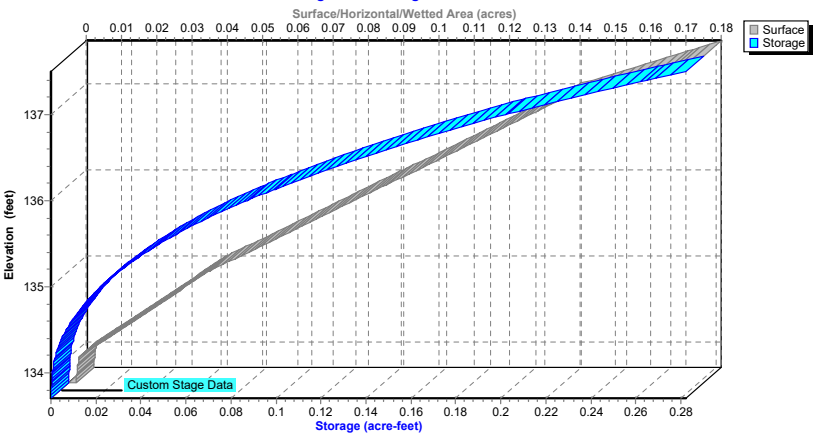
Pond 44P: Ex. Basin

Stage-Discharge



Pond 44P: Ex. Basin

Stage-Area-Storage



Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.05	0.001	134.01	0.05	0.05	0.00
5.00	0.07	0.001	134.04	0.07	0.07	0.00
7.50	0.16	0.001	134.12	0.15	0.15	0.00
10.00	0.40	0.003	134.26	0.38	0.38	0.00
12.50	2.63	0.105	136.19	2.97	2.97	0.00
15.00	0.39	0.003	134.27	0.41	0.41	0.00
17.50	0.24	0.002	134.18	0.25	0.25	0.00
20.00	0.19	0.002	134.14	0.19	0.19	0.00
22.50	0.15	0.001	134.12	0.16	0.16	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

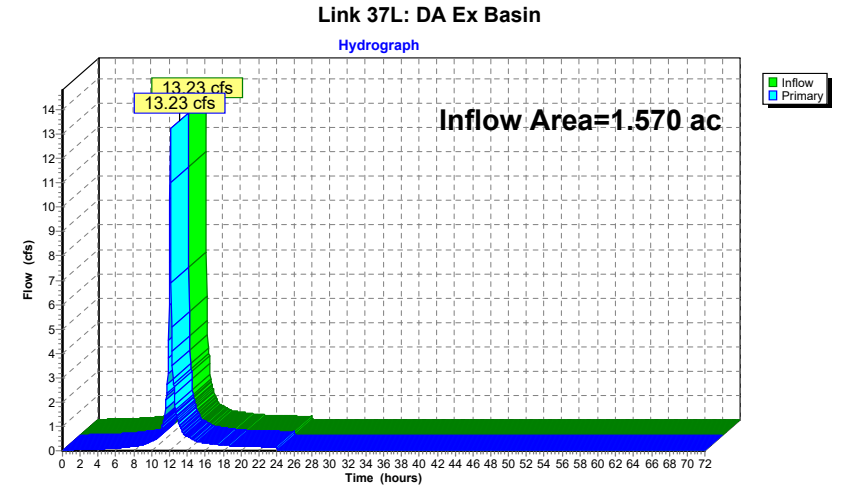
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 7.04" for 100-Year-Current event
Inflow = 13.23 cfs @ 12.10 hrs, Volume= 0.920 af
Primary = 13.23 cfs @ 12.10 hrs, Volume= 0.920 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.02	0.00	0.02	53.00	0.00	0.00	0.00
2.00	0.04	0.00	0.04	54.00	0.00	0.00	0.00
3.00	0.05	0.00	0.05	55.00	0.00	0.00	0.00
4.00	0.06	0.00	0.06	56.00	0.00	0.00	0.00
5.00	0.07	0.00	0.07	57.00	0.00	0.00	0.00
6.00	0.09	0.00	0.09	58.00	0.00	0.00	0.00
7.00	0.13	0.00	0.13	59.00	0.00	0.00	0.00
8.00	0.18	0.00	0.18	60.00	0.00	0.00	0.00
9.00	0.24	0.00	0.24	61.00	0.00	0.00	0.00
10.00	0.40	0.00	0.40	62.00	0.00	0.00	0.00
11.00	0.81	0.00	0.81	63.00	0.00	0.00	0.00
12.00	7.75	0.00	7.75	64.00	0.00	0.00	0.00
13.00	1.19	0.00	1.19	65.00	0.00	0.00	0.00
14.00	0.58	0.00	0.58	66.00	0.00	0.00	0.00
15.00	0.39	0.00	0.39	67.00	0.00	0.00	0.00
16.00	0.32	0.00	0.32	68.00	0.00	0.00	0.00
17.00	0.27	0.00	0.27	69.00	0.00	0.00	0.00
18.00	0.22	0.00	0.22	70.00	0.00	0.00	0.00
19.00	0.20	0.00	0.20	71.00	0.00	0.00	0.00
20.00	0.19	0.00	0.19	72.00	0.00	0.00	0.00
21.00	0.17	0.00	0.17				
22.00	0.16	0.00	0.16				
23.00	0.15	0.00	0.15				
24.00	0.16	0.00	0.16				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

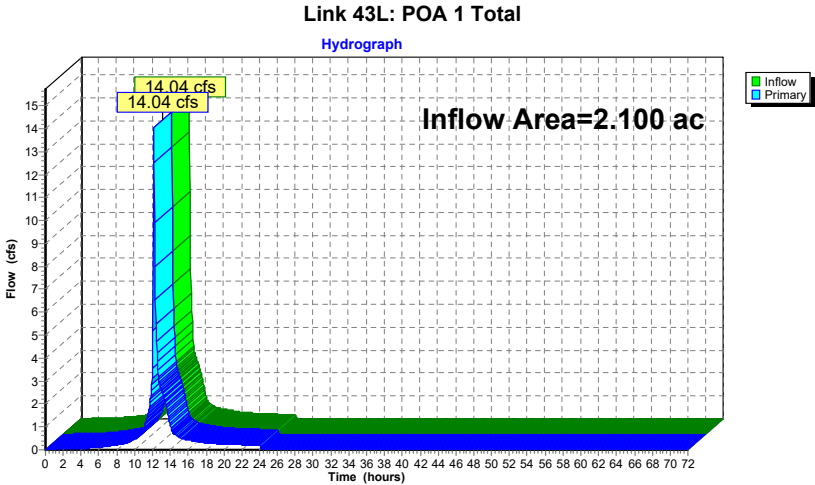
Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 6.85" for 100-Year-Current event

Inflow = 14.04 cfs @ 12.16 hrs, Volume= 1.200 af

Primary = 14.04 cfs @ 12.16 hrs, Volume= 1.200 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 43L: POA 1 Total

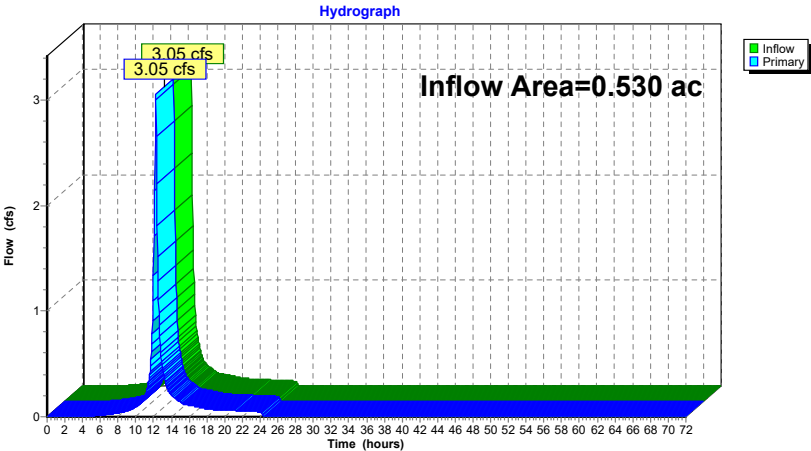
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.04	0.00	0.04	54.00	0.00	0.00	0.00
3.00	0.05	0.00	0.05	55.00	0.00	0.00	0.00
4.00	0.06	0.00	0.06	56.00	0.00	0.00	0.00
5.00	0.08	0.00	0.08	57.00	0.00	0.00	0.00
6.00	0.10	0.00	0.10	58.00	0.00	0.00	0.00
7.00	0.15	0.00	0.15	59.00	0.00	0.00	0.00
8.00	0.21	0.00	0.21	60.00	0.00	0.00	0.00
9.00	0.28	0.00	0.28	61.00	0.00	0.00	0.00
10.00	0.48	0.00	0.48	62.00	0.00	0.00	0.00
11.00	0.93	0.00	0.93	63.00	0.00	0.00	0.00
12.00	3.54	0.00	3.54	64.00	0.00	0.00	0.00
13.00	2.61	0.00	2.61	65.00	0.00	0.00	0.00
14.00	1.06	0.00	1.06	66.00	0.00	0.00	0.00
15.00	0.54	0.00	0.54	67.00	0.00	0.00	0.00
16.00	0.43	0.00	0.43	68.00	0.00	0.00	0.00
17.00	0.37	0.00	0.37	69.00	0.00	0.00	0.00
18.00	0.30	0.00	0.30	70.00	0.00	0.00	0.00
19.00	0.27	0.00	0.27	71.00	0.00	0.00	0.00
20.00	0.25	0.00	0.25	72.00	0.00	0.00	0.00
21.00	0.23	0.00	0.23				
22.00	0.22	0.00	0.22				
23.00	0.20	0.00	0.20				
24.00	0.19	0.00	0.19				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 45L: DA Undetained

Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 6.33" for 100-Year-Current event
Inflow = 3.05 cfs @ 12.22 hrs, Volume= 0.280 af
Primary = 3.05 cfs @ 12.22 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 45L: DA Undetained



2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

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Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.01	0.00	0.01	58.00	0.00	0.00	0.00
7.00	0.02	0.00	0.02	59.00	0.00	0.00	0.00
8.00	0.04	0.00	0.04	60.00	0.00	0.00	0.00
9.00	0.05	0.00	0.05	61.00	0.00	0.00	0.00
10.00	0.10	0.00	0.10	62.00	0.00	0.00	0.00
11.00	0.20	0.00	0.20	63.00	0.00	0.00	0.00
12.00	1.33	0.00	1.33	64.00	0.00	0.00	0.00
13.00	0.46	0.00	0.46	65.00	0.00	0.00	0.00
14.00	0.20	0.00	0.20	66.00	0.00	0.00	0.00
15.00	0.14	0.00	0.14	67.00	0.00	0.00	0.00
16.00	0.11	0.00	0.11	68.00	0.00	0.00	0.00
17.00	0.09	0.00	0.09	69.00	0.00	0.00	0.00
18.00	0.07	0.00	0.07	70.00	0.00	0.00	0.00
19.00	0.07	0.00	0.07	71.00	0.00	0.00	0.00
20.00	0.06	0.00	0.06	72.00	0.00	0.00	0.00
21.00	0.06	0.00	0.06				
22.00	0.05	0.00	0.05				
23.00	0.05	0.00	0.05				
24.00	0.05	0.00	0.05				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Existing Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.570 ac 100.00% Impervious Runoff Depth=11.09" Flow Length=358' Tc=3.1 min CN=98 Runoff=7.47 cfs 0.527 af
Subcatchment39S: Pervious	Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=8.80" Flow Length=228' Tc=5.1 min CN=80 Runoff=10.84 cfs 0.733 af
Subcatchment46S: Impervious	Runoff Area=0.020 ac 100.00% Impervious Runoff Depth=11.09" Flow Length=97' Tc=1.0 min CN=98 Runoff=0.27 cfs 0.018 af
Subcatchment47S: Pervious	Runoff Area=0.510 ac 0.00% Impervious Runoff Depth=8.80" Flow Length=189' Slope=0.0200 '/' Tc=13.7 min CN=80 Runoff=4.26 cfs 0.374 af
Pond 44P: Ex. Basin	Peak Elev=136.64' Storage=0.155 af Inflow=18.10 cfs 1.260 af Primary=16.33 cfs 1.259 af Secondary=0.00 cfs 0.000 af Outflow=16.33 cfs 1.259 af
Link 37L: DA Ex Basin	Inflow=18.10 cfs 1.260 af Primary=18.10 cfs 1.260 af
Link 43L: POA 1 Total	Inflow=20.04 cfs 1.652 af Primary=20.04 cfs 1.652 af
Link 45L: DA Undetained	Inflow=4.35 cfs 0.392 af Primary=4.35 cfs 0.392 af

Total Runoff Area = 2.100 ac Runoff Volume = 1.652 af Average Runoff Depth = 9.44"
71.90% Pervious = 1.510 ac 28.10% Impervious = 0.590 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 138% of capacity of segment #3

Runoff = 7.47 cfs @ 12.09 hrs, Volume= 0.527 af, Depth=11.09"
Routed to Link 37L : DA Ex Basin

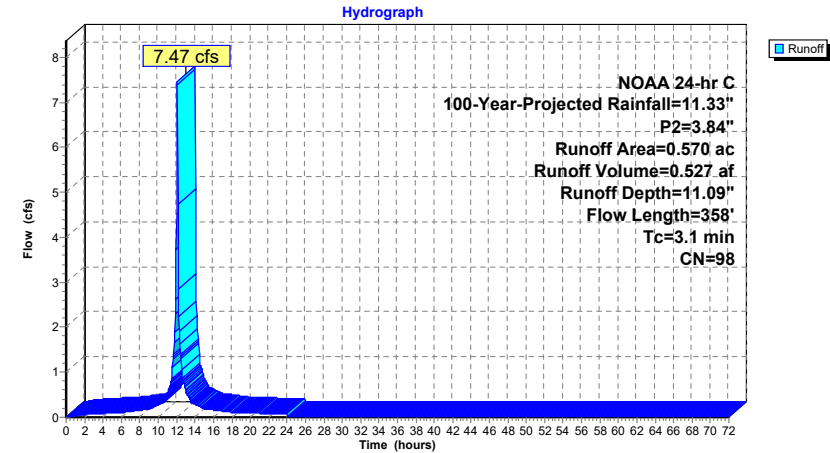
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.570	98	Paved parking, HSG D
0.570		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
0.6	161	0.0050	4.40	5.40	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
3.1	358	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	11.09	0.00
1.00	0.12	0.02	0.03	53.00	11.33	11.09	0.00
2.00	0.26	0.11	0.06	54.00	11.33	11.09	0.00
3.00	0.40	0.23	0.07	55.00	11.33	11.09	0.00
4.00	0.55	0.37	0.08	56.00	11.33	11.09	0.00
5.00	0.72	0.52	0.09	57.00	11.33	11.09	0.00
6.00	0.90	0.69	0.10	58.00	11.33	11.09	0.00
7.00	1.11	0.89	0.13	59.00	11.33	11.09	0.00
8.00	1.36	1.14	0.15	60.00	11.33	11.09	0.00
9.00	1.65	1.43	0.18	61.00	11.33	11.09	0.00
10.00	2.07	1.84	0.28	62.00	11.33	11.09	0.00
11.00	2.72	2.49	0.51	63.00	11.33	11.09	0.00
12.00	5.40	5.16	4.50	64.00	11.33	11.09	0.00
13.00	8.61	8.37	0.59	65.00	11.33	11.09	0.00
14.00	9.26	9.02	0.29	66.00	11.33	11.09	0.00
15.00	9.68	9.43	0.19	67.00	11.33	11.09	0.00
16.00	9.97	9.73	0.16	68.00	11.33	11.09	0.00
17.00	10.22	9.98	0.13	69.00	11.33	11.09	0.00
18.00	10.43	10.19	0.11	70.00	11.33	11.09	0.00
19.00	10.61	10.37	0.10	71.00	11.33	11.09	0.00
20.00	10.78	10.53	0.09	72.00	11.33	11.09	0.00
21.00	10.93	10.69	0.09				
22.00	11.07	10.83	0.08				
23.00	11.21	10.96	0.07				
24.00	11.33	11.09	0.08				
25.00	11.33	11.09	0.00				
26.00	11.33	11.09	0.00				
27.00	11.33	11.09	0.00				
28.00	11.33	11.09	0.00				
29.00	11.33	11.09	0.00				
30.00	11.33	11.09	0.00				
31.00	11.33	11.09	0.00				
32.00	11.33	11.09	0.00				
33.00	11.33	11.09	0.00				
34.00	11.33	11.09	0.00				
35.00	11.33	11.09	0.00				
36.00	11.33	11.09	0.00				
37.00	11.33	11.09	0.00				
38.00	11.33	11.09	0.00				
39.00	11.33	11.09	0.00				
40.00	11.33	11.09	0.00				
41.00	11.33	11.09	0.00				
42.00	11.33	11.09	0.00				
43.00	11.33	11.09	0.00				
44.00	11.33	11.09	0.00				
45.00	11.33	11.09	0.00				
46.00	11.33	11.09	0.00				
47.00	11.33	11.09	0.00				
48.00	11.33	11.09	0.00				
49.00	11.33	11.09	0.00				
50.00	11.33	11.09	0.00				
51.00	11.33	11.09	0.00				

Summary for Subcatchment 39S: Pervious

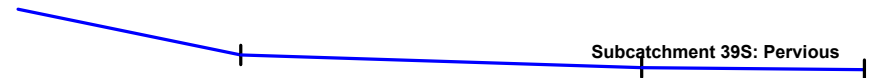
[49] Hint: Tc<2dt may require smaller dt
 [47] Hint: Peak is 191% of capacity of segment #3

Runoff = 10.84 cfs @ 12.11 hrs, Volume= 0.733 af, Depth= 8.80"
 Routed to Link 37L : DA Ex Basin

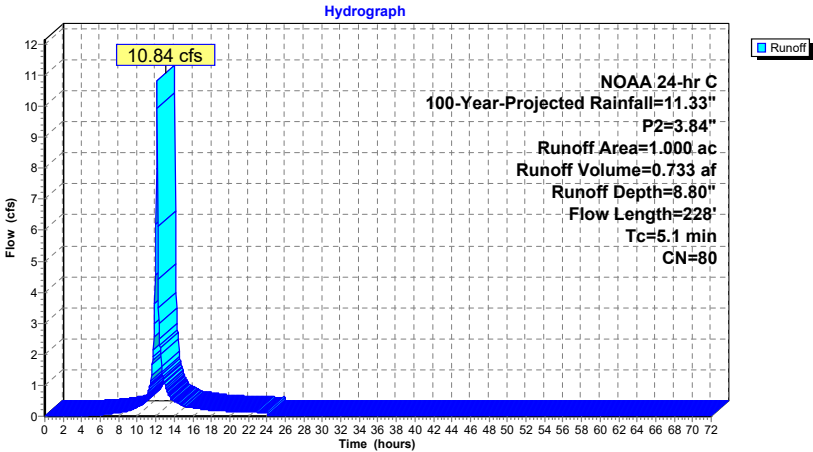
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
1.000	80	>75% Grass cover, Good, HSG D
1.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	60	0.1300	0.24		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.8	108	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.2	60	0.0055	4.61	5.66	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.011
5.1	228	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	8.80	0.00
1.00	0.12	0.00	0.00	53.00	11.33	8.80	0.00
2.00	0.26	0.00	0.00	54.00	11.33	8.80	0.00
3.00	0.40	0.00	0.00	55.00	11.33	8.80	0.00
4.00	0.55	0.00	0.01	56.00	11.33	8.80	0.00
5.00	0.72	0.02	0.03	57.00	11.33	8.80	0.00
6.00	0.90	0.05	0.05	58.00	11.33	8.80	0.00
7.00	1.11	0.12	0.08	59.00	11.33	8.80	0.00
8.00	1.36	0.22	0.12	60.00	11.33	8.80	0.00
9.00	1.65	0.36	0.17	61.00	11.33	8.80	0.00
10.00	2.07	0.60	0.30	62.00	11.33	8.80	0.00
11.00	2.72	1.04	0.63	63.00	11.33	8.80	0.00
12.00	5.40	3.24	6.21	64.00	11.33	8.80	0.00
13.00	8.61	6.20	1.00	65.00	11.33	8.80	0.00
14.00	9.26	6.82	0.49	66.00	11.33	8.80	0.00
15.00	9.68	7.21	0.33	67.00	11.33	8.80	0.00
16.00	9.97	7.49	0.27	68.00	11.33	8.80	0.00
17.00	10.22	7.74	0.23	69.00	11.33	8.80	0.00
18.00	10.43	7.93	0.18	70.00	11.33	8.80	0.00
19.00	10.61	8.11	0.17	71.00	11.33	8.80	0.00
20.00	10.78	8.26	0.16	72.00	11.33	8.80	0.00
21.00	10.93	8.41	0.15				
22.00	11.07	8.55	0.13				
23.00	11.21	8.68	0.12				
24.00	11.33	8.80	0.13				
25.00	11.33	8.80	0.00				
26.00	11.33	8.80	0.00				
27.00	11.33	8.80	0.00				
28.00	11.33	8.80	0.00				
29.00	11.33	8.80	0.00				
30.00	11.33	8.80	0.00				
31.00	11.33	8.80	0.00				
32.00	11.33	8.80	0.00				
33.00	11.33	8.80	0.00				
34.00	11.33	8.80	0.00				
35.00	11.33	8.80	0.00				
36.00	11.33	8.80	0.00				
37.00	11.33	8.80	0.00				
38.00	11.33	8.80	0.00				
39.00	11.33	8.80	0.00				
40.00	11.33	8.80	0.00				
41.00	11.33	8.80	0.00				
42.00	11.33	8.80	0.00				
43.00	11.33	8.80	0.00				
44.00	11.33	8.80	0.00				
45.00	11.33	8.80	0.00				
46.00	11.33	8.80	0.00				
47.00	11.33	8.80	0.00				
48.00	11.33	8.80	0.00				
49.00	11.33	8.80	0.00				
50.00	11.33	8.80	0.00				
51.00	11.33	8.80	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.27 cfs @ 12.06 hrs, Volume= 0.018 af, Depth=11.09"
Routed to Link 45L : DA Undetained

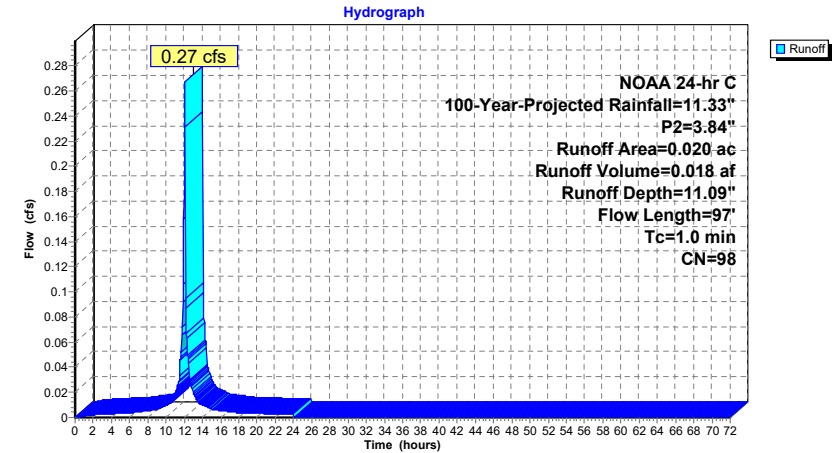
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.020	98	Paved parking, HSG D
0.020		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	16	0.0050	0.60		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.6	81	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.0	97	Total			



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.12	0.02	0.00
2.00	0.26	0.11	0.00
3.00	0.40	0.23	0.00
4.00	0.55	0.37	0.00
5.00	0.72	0.52	0.00
6.00	0.90	0.69	0.00
7.00	1.11	0.89	0.00
8.00	1.36	1.14	0.01
9.00	1.65	1.43	0.01
10.00	2.07	1.84	0.01
11.00	2.72	2.49	0.02
12.00	5.40	5.16	0.18
13.00	8.61	8.37	0.02
14.00	9.26	9.02	0.01
15.00	9.68	9.43	0.01
16.00	9.97	9.73	0.01
17.00	10.22	9.98	0.00
18.00	10.43	10.19	0.00
19.00	10.61	10.37	0.00
20.00	10.78	10.53	0.00
21.00	10.93	10.69	0.00
22.00	11.07	10.83	0.00
23.00	11.21	10.96	0.00
24.00	11.33	11.09	0.00
25.00	11.33	11.09	0.00
26.00	11.33	11.09	0.00
27.00	11.33	11.09	0.00
28.00	11.33	11.09	0.00
29.00	11.33	11.09	0.00
30.00	11.33	11.09	0.00
31.00	11.33	11.09	0.00
32.00	11.33	11.09	0.00
33.00	11.33	11.09	0.00
34.00	11.33	11.09	0.00
35.00	11.33	11.09	0.00
36.00	11.33	11.09	0.00
37.00	11.33	11.09	0.00
38.00	11.33	11.09	0.00
39.00	11.33	11.09	0.00
40.00	11.33	11.09	0.00
41.00	11.33	11.09	0.00
42.00	11.33	11.09	0.00
43.00	11.33	11.09	0.00
44.00	11.33	11.09	0.00
45.00	11.33	11.09	0.00
46.00	11.33	11.09	0.00
47.00	11.33	11.09	0.00
48.00	11.33	11.09	0.00
49.00	11.33	11.09	0.00
50.00	11.33	11.09	0.00
51.00	11.33	11.09	0.00

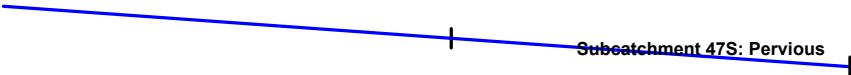
Summary for Subcatchment 47S: Pervious

Runoff = 4.26 cfs @ 12.21 hrs, Volume= 0.374 af, Depth= 8.80"
Routed to Link 45L : DA Undetained

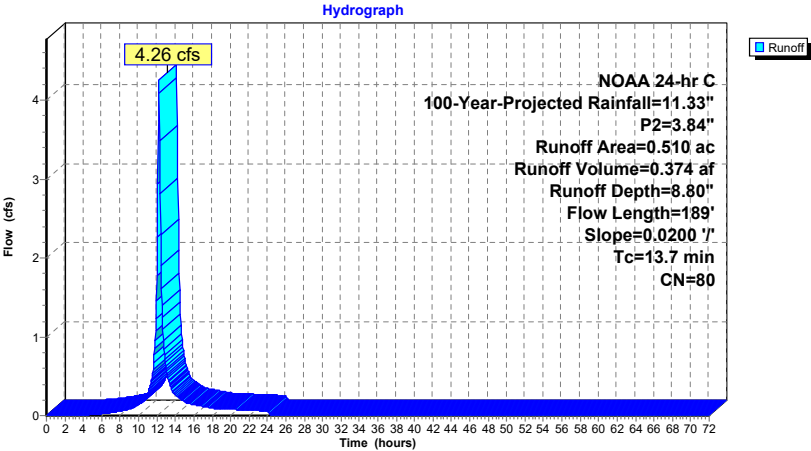
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.510	80	>75% Grass cover, Good, HSG D
0.510		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.0	100	0.0200	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"
0.7	89	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
13.7	189	Total			



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.12	0.00	0.00
2.00	0.26	0.00	0.00
3.00	0.40	0.00	0.00
4.00	0.55	0.00	0.00
5.00	0.72	0.02	0.01
6.00	0.90	0.05	0.02
7.00	1.11	0.12	0.04
8.00	1.36	0.22	0.06
9.00	1.65	0.36	0.08
10.00	2.07	0.60	0.14
11.00	2.72	1.04	0.28
12.00	5.40	3.24	1.78
13.00	8.61	6.20	0.60
14.00	9.26	6.82	0.26
15.00	9.68	7.21	0.18
16.00	9.97	7.49	0.14
17.00	10.22	7.74	0.12
18.00	10.43	7.93	0.10
19.00	10.61	8.11	0.09
20.00	10.78	8.26	0.08
21.00	10.93	8.41	0.07
22.00	11.07	8.55	0.07
23.00	11.21	8.68	0.06
24.00	11.33	8.80	0.06
25.00	11.33	8.80	0.00
26.00	11.33	8.80	0.00
27.00	11.33	8.80	0.00
28.00	11.33	8.80	0.00
29.00	11.33	8.80	0.00
30.00	11.33	8.80	0.00
31.00	11.33	8.80	0.00
32.00	11.33	8.80	0.00
33.00	11.33	8.80	0.00
34.00	11.33	8.80	0.00
35.00	11.33	8.80	0.00
36.00	11.33	8.80	0.00
37.00	11.33	8.80	0.00
38.00	11.33	8.80	0.00
39.00	11.33	8.80	0.00
40.00	11.33	8.80	0.00
41.00	11.33	8.80	0.00
42.00	11.33	8.80	0.00
43.00	11.33	8.80	0.00
44.00	11.33	8.80	0.00
45.00	11.33	8.80	0.00
46.00	11.33	8.80	0.00
47.00	11.33	8.80	0.00
48.00	11.33	8.80	0.00
49.00	11.33	8.80	0.00
50.00	11.33	8.80	0.00
51.00	11.33	8.80	0.00

Summary for Pond 44P: Ex. Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 9.63" for 100-Year-Projected event
Inflow = 18.10 cfs @ 12.10 hrs, Volume= 1.260 af
Outflow = 16.33 cfs @ 12.14 hrs, Volume= 1.259 af, Atten= 10%, Lag= 2.1 min
Primary = 16.33 cfs @ 12.14 hrs, Volume= 1.259 af
Routed to Link 43L : POA 1 Total
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.64' @ 12.14 hrs Surf.Area= 0.122 ac Storage= 0.155 af

Plug-Flow detention time= 12.0 min calculated for 1.259 af (100% of inflow)
Center-of-Mass det. time= 11.8 min (780.1 - 768.3)

Volume	Invert	Avail.Storage	Storage Description
#1	133.70'	0.282 af	Custom Stage Data (Prismatic) listed below (Recalc)
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
133.70	0.002	0.000	0.000
134.00	0.003	0.001	0.001
135.00	0.040	0.022	0.022
136.00	0.090	0.065	0.087
137.00	0.140	0.115	0.202
137.50	0.180	0.080	0.282

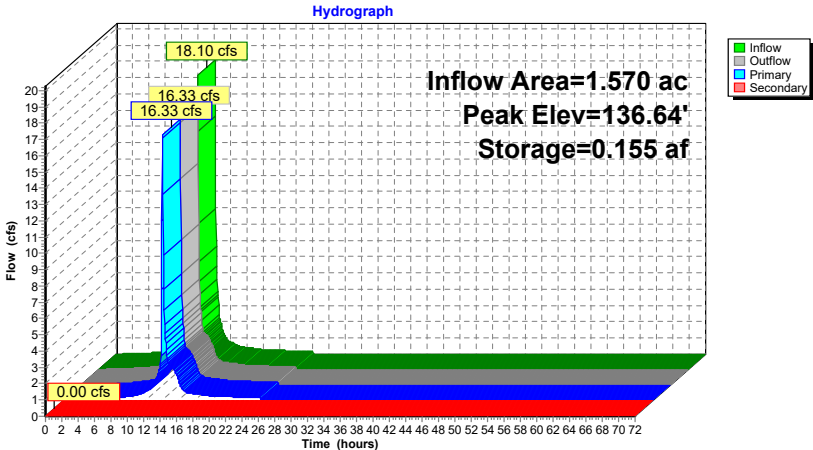
Device	Routing	Invert	Outlet Devices
#1	Primary	133.90'	8.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	136.13'	22.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#3	Secondary	137.40'	30.0' long x 5.0' breadth Broad-Crested Rectangular Weir
Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00			
Coef. (English) 2.34 2.50 2.70 2.68 2.66 2.66 2.65 2.65 2.65			
2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88			

Primary OutFlow Max=15.87 cfs @ 12.14 hrs HW=136.62' (Free Discharge)
1=Orifice/Grate (Orifice Controls 2.60 cfs @ 7.45 fps)
2=Orifice/Grate (Weir Controls 13.27 cfs @ 2.30 fps)

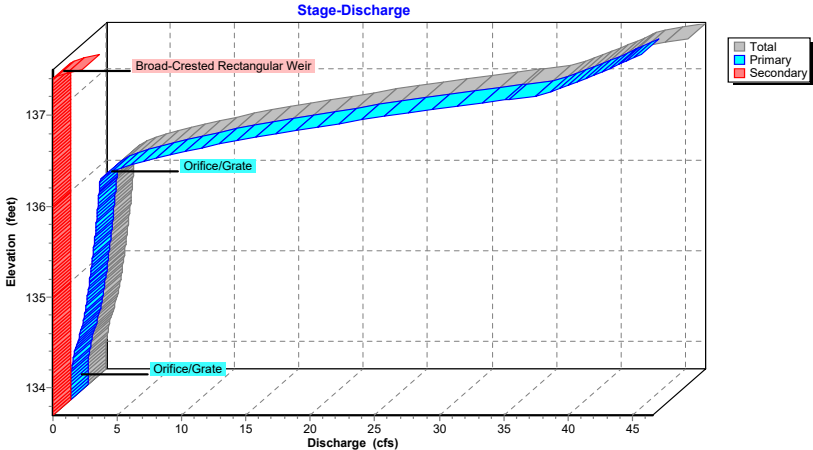
Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.70' (Free Discharge)
3=Broad-Crested Rectangular Weir(Controls 0.00 cfs)

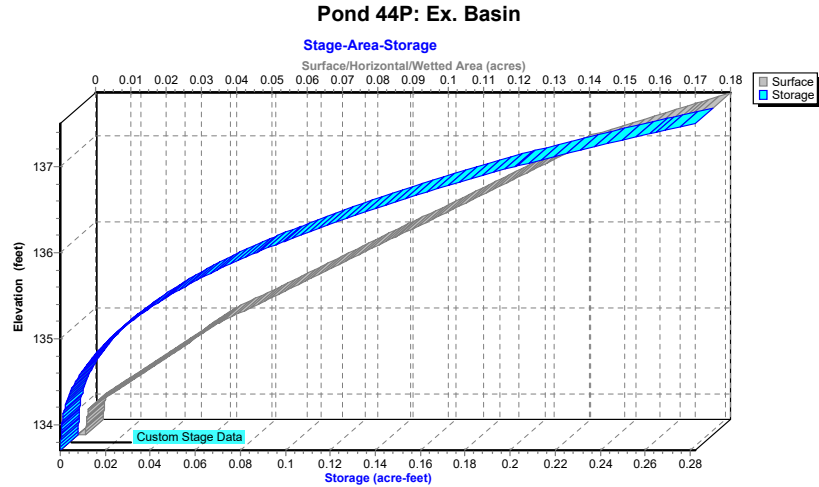


Pond 44P: Ex. Basin



Pond 44P: Ex. Basin





Hydrograph for Pond 44P: Ex. Basin

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0.000	133.70	0.00	0.00	0.00
2.50	0.07	0.001	134.04	0.07	0.07	0.00
5.00	0.12	0.001	134.09	0.12	0.12	0.00
7.50	0.24	0.002	134.17	0.23	0.23	0.00
10.00	0.58	0.004	134.34	0.56	0.56	0.00
12.50	3.51	0.110	136.24	3.81	3.81	0.00
15.00	0.52	0.004	134.34	0.54	0.54	0.00
17.50	0.32	0.002	134.23	0.33	0.33	0.00
20.00	0.25	0.002	134.18	0.25	0.25	0.00
22.50	0.21	0.002	134.15	0.21	0.21	0.00
25.00	0.00	0.000	133.90	0.00	0.00	0.00
27.50	0.00	0.000	133.90	0.00	0.00	0.00
30.00	0.00	0.000	133.90	0.00	0.00	0.00
32.50	0.00	0.000	133.90	0.00	0.00	0.00
35.00	0.00	0.000	133.90	0.00	0.00	0.00
37.50	0.00	0.000	133.90	0.00	0.00	0.00
40.00	0.00	0.000	133.90	0.00	0.00	0.00
42.50	0.00	0.000	133.90	0.00	0.00	0.00
45.00	0.00	0.000	133.90	0.00	0.00	0.00
47.50	0.00	0.000	133.90	0.00	0.00	0.00
50.00	0.00	0.000	133.90	0.00	0.00	0.00
52.50	0.00	0.000	133.90	0.00	0.00	0.00
55.00	0.00	0.000	133.90	0.00	0.00	0.00
57.50	0.00	0.000	133.90	0.00	0.00	0.00
60.00	0.00	0.000	133.90	0.00	0.00	0.00
62.50	0.00	0.000	133.90	0.00	0.00	0.00
65.00	0.00	0.000	133.90	0.00	0.00	0.00
67.50	0.00	0.000	133.90	0.00	0.00	0.00
70.00	0.00	0.000	133.90	0.00	0.00	0.00

Stage-Discharge for Pond 44P: Ex. Basin

Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Discharge (cfs)	Primary (cfs)	Secondary (cfs)
133.70	0.00	0.00	0.00	136.30	5.09	5.09	0.00
133.75	0.00	0.00	0.00	136.35	6.38	6.38	0.00
133.80	0.00	0.00	0.00	136.40	7.83	7.83	0.00
133.85	0.00	0.00	0.00	136.45	9.41	9.41	0.00
133.90	0.00	0.00	0.00	136.50	11.12	11.12	0.00
133.95	0.01	0.01	0.00	136.55	12.94	12.94	0.00
134.00	0.04	0.04	0.00	136.60	14.88	14.88	0.00
134.05	0.08	0.08	0.00	136.65	16.92	16.92	0.00
134.10	0.13	0.13	0.00	136.70	19.06	19.06	0.00
134.15	0.20	0.20	0.00	136.75	21.29	21.29	0.00
134.20	0.28	0.28	0.00	136.80	23.61	23.61	0.00
134.25	0.37	0.37	0.00	136.85	26.03	26.03	0.00
134.30	0.47	0.47	0.00	136.90	28.52	28.52	0.00
134.35	0.57	0.57	0.00	136.95	31.10	31.10	0.00
134.40	0.68	0.68	0.00	137.00	33.75	33.75	0.00
134.45	0.78	0.78	0.00	137.05	36.49	36.49	0.00
134.50	0.87	0.87	0.00	137.10	37.62	37.62	0.00
134.55	0.95	0.95	0.00	137.15	38.53	38.53	0.00
134.60	1.02	1.02	0.00	137.20	39.42	39.42	0.00
134.65	1.08	1.08	0.00	137.25	40.29	40.29	0.00
134.70	1.15	1.15	0.00	137.30	41.14	41.14	0.00
134.75	1.21	1.21	0.00	137.35	41.97	41.97	0.00
134.80	1.27	1.27	0.00	137.40	42.78	42.78	0.00
134.85	1.32	1.32	0.00	137.45	44.37	43.58	0.78
134.90	1.37	1.37	0.00	137.50	46.59	44.37	2.22
134.95	1.42	1.42	0.00				
135.00	1.47	1.47	0.00				
135.05	1.52	1.52	0.00				
135.10	1.56	1.56	0.00				
135.15	1.61	1.61	0.00				
135.20	1.65	1.65	0.00				
135.25	1.69	1.69	0.00				
135.30	1.74	1.74	0.00				
135.35	1.78	1.78	0.00				
135.40	1.82	1.82	0.00				
135.45	1.85	1.85	0.00				
135.50	1.89	1.89	0.00				
135.55	1.93	1.93	0.00				
135.60	1.96	1.96	0.00				
135.65	2.00	2.00	0.00				
135.70	2.04	2.04	0.00				
135.75	2.07	2.07	0.00				
135.80	2.10	2.10	0.00				
135.85	2.14	2.14	0.00				
135.90	2.17	2.17	0.00				
135.95	2.20	2.20	0.00				
136.00	2.23	2.23	0.00				
136.05	2.27	2.27	0.00				
136.10	2.30	2.30	0.00				
136.15	2.43	2.43	0.00				
136.20	3.06	3.06	0.00				
136.25	3.97	3.97	0.00				

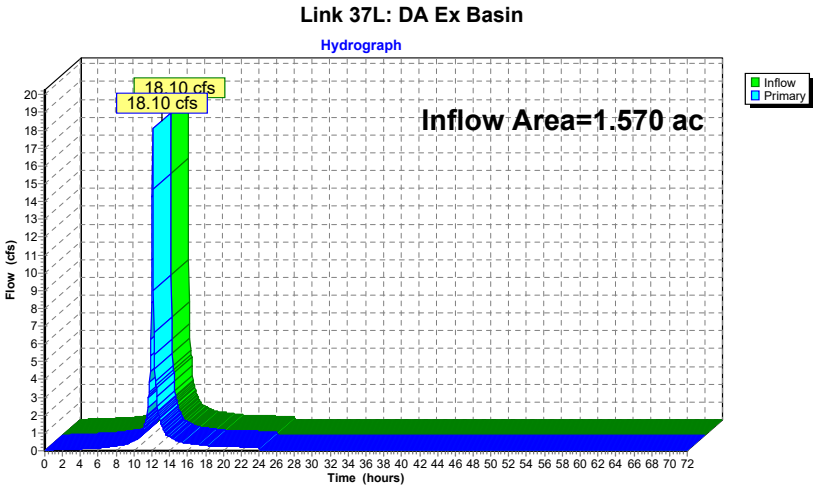
Stage-Area-Storage for Pond 44P: Ex. Basin

Elevation (feet)	Surface (acres)	Storage (acre-feet)	Elevation (feet)	Surface (acres)	Storage (acre-feet)
133.70	0.002	0.000	136.30	0.105	0.116
133.75	0.002	0.000	136.35	0.107	0.122
133.80	0.002	0.000	136.40	0.110	0.127
133.85	0.003	0.000	136.45	0.112	0.133
133.90	0.003	0.000	136.50	0.115	0.139
133.95	0.003	0.001	136.55	0.117	0.144
134.00	0.003	0.001	136.60	0.120	0.150
134.05	0.005	0.001	136.65	0.122	0.156
134.10	0.007	0.001	136.70	0.125	0.162
134.15	0.009	0.002	136.75	0.127	0.169
134.20	0.010	0.002	136.80	0.130	0.175
134.25	0.012	0.003	136.85	0.132	0.182
134.30	0.014	0.003	136.90	0.135	0.188
134.35	0.016	0.004	136.95	0.137	0.195
134.40	0.018	0.005	137.00	0.140	0.202
134.45	0.020	0.006	137.05	0.144	0.209
134.50	0.022	0.007	137.10	0.148	0.217
134.55	0.023	0.008	137.15	0.152	0.224
134.60	0.025	0.009	137.20	0.156	0.232
134.65	0.027	0.011	137.25	0.160	0.240
134.70	0.029	0.012	137.30	0.164	0.248
134.75	0.031	0.013	137.35	0.168	0.256
134.80	0.033	0.015	137.40	0.172	0.265
134.85	0.034	0.017	137.45	0.176	0.273
134.90	0.036	0.018	137.50	0.180	0.282
134.95	0.038	0.020			
135.00	0.040	0.022			
135.05	0.042	0.024			
135.10	0.045	0.026			
135.15	0.047	0.029			
135.20	0.050	0.031			
135.25	0.052	0.034			
135.30	0.055	0.036			
135.35	0.057	0.039			
135.40	0.060	0.042			
135.45	0.062	0.045			
135.50	0.065	0.049			
135.55	0.067	0.052			
135.60	0.070	0.055			
135.65	0.072	0.059			
135.70	0.075	0.062			
135.75	0.077	0.066			
135.80	0.080	0.070			
135.85	0.082	0.074			
135.90	0.085	0.078			
135.95	0.087	0.083			
136.00	0.090	0.087			
136.05	0.092	0.092			
136.10	0.095	0.096			
136.15	0.097	0.101			
136.20	0.100	0.106			
136.25	0.102	0.111			

Summary for Link 37L: DA Ex Basin

Inflow Area = 1.570 ac, 36.31% Impervious, Inflow Depth = 9.63" for 100-Year-Projected event
Inflow = 18.10 cfs @ 12.10 hrs, Volume= 1.260 af
Primary = 18.10 cfs @ 12.10 hrs, Volume= 1.260 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Ex. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



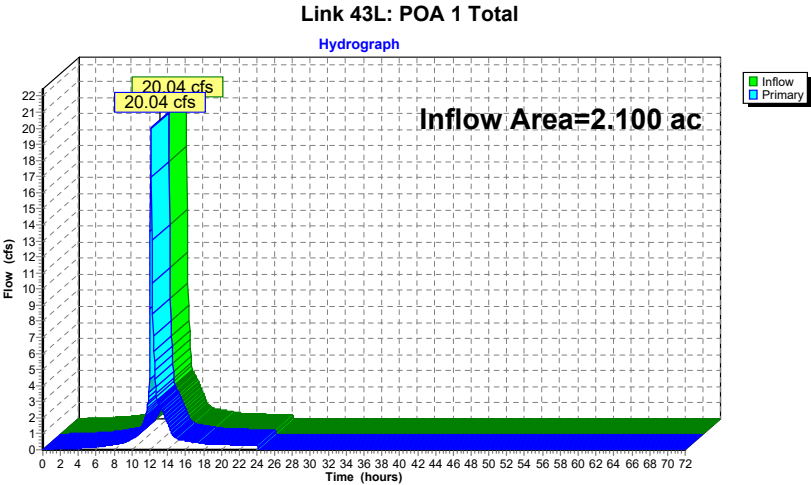
Hydrograph for Link 37L: DA Ex Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.03	0.00	0.03	53.00	0.00	0.00	0.00
2.00	0.06	0.00	0.06	54.00	0.00	0.00	0.00
3.00	0.07	0.00	0.07	55.00	0.00	0.00	0.00
4.00	0.09	0.00	0.09	56.00	0.00	0.00	0.00
5.00	0.12	0.00	0.12	57.00	0.00	0.00	0.00
6.00	0.15	0.00	0.15	58.00	0.00	0.00	0.00
7.00	0.21	0.00	0.21	59.00	0.00	0.00	0.00
8.00	0.27	0.00	0.27	60.00	0.00	0.00	0.00
9.00	0.35	0.00	0.35	61.00	0.00	0.00	0.00
10.00	0.58	0.00	0.58	62.00	0.00	0.00	0.00
11.00	1.15	0.00	1.15	63.00	0.00	0.00	0.00
12.00	10.71	0.00	10.71	64.00	0.00	0.00	0.00
13.00	1.59	0.00	1.59	65.00	0.00	0.00	0.00
14.00	0.78	0.00	0.78	66.00	0.00	0.00	0.00
15.00	0.52	0.00	0.52	67.00	0.00	0.00	0.00
16.00	0.43	0.00	0.43	68.00	0.00	0.00	0.00
17.00	0.36	0.00	0.36	69.00	0.00	0.00	0.00
18.00	0.29	0.00	0.29	70.00	0.00	0.00	0.00
19.00	0.27	0.00	0.27	71.00	0.00	0.00	0.00
20.00	0.25	0.00	0.25	72.00	0.00	0.00	0.00
21.00	0.23	0.00	0.23				
22.00	0.21	0.00	0.21				
23.00	0.20	0.00	0.20				
24.00	0.22	0.00	0.22				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 28.10% Impervious, Inflow Depth = 9.44" for 100-Year-Projected event
Inflow = 20.04 cfs @ 12.14 hrs, Volume= 1.652 af
Primary = 20.04 cfs @ 12.14 hrs, Volume= 1.652 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



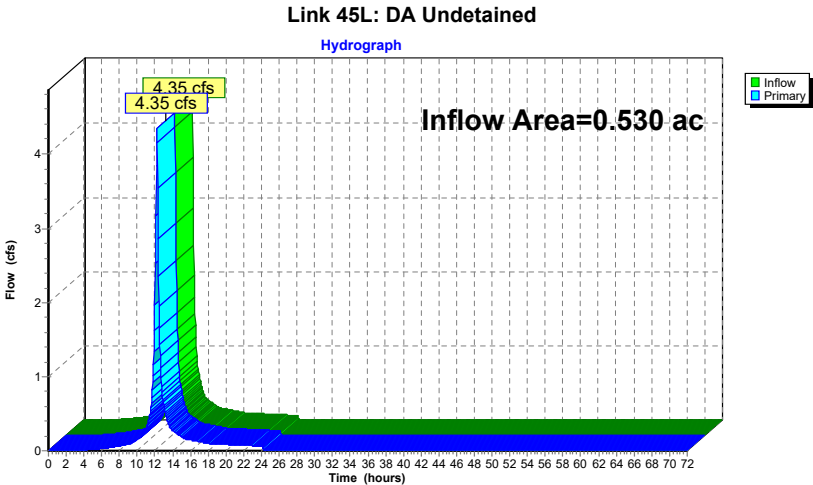
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.03	0.00	0.03	53.00	0.00	0.00	0.00
2.00	0.06	0.00	0.06	54.00	0.00	0.00	0.00
3.00	0.08	0.00	0.08	55.00	0.00	0.00	0.00
4.00	0.09	0.00	0.09	56.00	0.00	0.00	0.00
5.00	0.13	0.00	0.13	57.00	0.00	0.00	0.00
6.00	0.17	0.00	0.17	58.00	0.00	0.00	0.00
7.00	0.24	0.00	0.24	59.00	0.00	0.00	0.00
8.00	0.33	0.00	0.33	60.00	0.00	0.00	0.00
9.00	0.43	0.00	0.43	61.00	0.00	0.00	0.00
10.00	0.71	0.00	0.71	62.00	0.00	0.00	0.00
11.00	1.30	0.00	1.30	63.00	0.00	0.00	0.00
12.00	8.81	0.00	8.81	64.00	0.00	0.00	0.00
13.00	2.87	0.00	2.87	65.00	0.00	0.00	0.00
14.00	1.67	0.00	1.67	66.00	0.00	0.00	0.00
15.00	0.73	0.00	0.73	67.00	0.00	0.00	0.00
16.00	0.58	0.00	0.58	68.00	0.00	0.00	0.00
17.00	0.49	0.00	0.49	69.00	0.00	0.00	0.00
18.00	0.39	0.00	0.39	70.00	0.00	0.00	0.00
19.00	0.36	0.00	0.36	71.00	0.00	0.00	0.00
20.00	0.33	0.00	0.33	72.00	0.00	0.00	0.00
21.00	0.31	0.00	0.31				
22.00	0.29	0.00	0.29				
23.00	0.26	0.00	0.26				
24.00	0.26	0.00	0.26				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 45L: DA Undetained

Inflow Area = 0.530 ac, 3.77% Impervious, Inflow Depth = 8.89" for 100-Year-Projected event
Inflow = 4.35 cfs @ 12.21 hrs, Volume= 0.392 af
Primary = 4.35 cfs @ 12.21 hrs, Volume= 0.392 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 45L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.01	0.00	0.01	57.00	0.00	0.00	0.00
6.00	0.03	0.00	0.03	58.00	0.00	0.00	0.00
7.00	0.04	0.00	0.04	59.00	0.00	0.00	0.00
8.00	0.06	0.00	0.06	60.00	0.00	0.00	0.00
9.00	0.09	0.00	0.09	61.00	0.00	0.00	0.00
10.00	0.15	0.00	0.15	62.00	0.00	0.00	0.00
11.00	0.30	0.00	0.30	63.00	0.00	0.00	0.00
12.00	1.97	0.00	1.97	64.00	0.00	0.00	0.00
13.00	0.62	0.00	0.62	65.00	0.00	0.00	0.00
14.00	0.27	0.00	0.27	66.00	0.00	0.00	0.00
15.00	0.18	0.00	0.18	67.00	0.00	0.00	0.00
16.00	0.15	0.00	0.15	68.00	0.00	0.00	0.00
17.00	0.12	0.00	0.12	69.00	0.00	0.00	0.00
18.00	0.10	0.00	0.10	70.00	0.00	0.00	0.00
19.00	0.09	0.00	0.09	71.00	0.00	0.00	0.00
20.00	0.08	0.00	0.08	72.00	0.00	0.00	0.00
21.00	0.08	0.00	0.08				
22.00	0.07	0.00	0.07				
23.00	0.07	0.00	0.07				
24.00	0.06	0.00	0.06				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Events for Subcatchment 38S: Impervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	2.17	0.148	3.11
2-Year-Projected	3.84	2.51	0.171	3.61
10-Year-Current	5.11	3.34	0.231	4.87
10-Year-Projected	5.86	3.85	0.267	5.62
100-Year-Current	8.66	5.68	0.400	8.42
100-Year-Projected	11.33	7.47	0.527	11.09

Events for Subcatchment 39S: Pervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	1.96	0.126	1.51
2-Year-Projected	3.84	2.49	0.159	1.91
10-Year-Current	5.11	3.82	0.249	2.99
10-Year-Projected	5.86	4.70	0.305	3.66
100-Year-Current	8.66	7.75	0.521	6.25
100-Year-Projected	11.33	10.84	0.733	8.80

Events for Subcatchment 46S: Impervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	0.08	0.005	3.11
2-Year-Projected	3.84	0.09	0.006	3.61
10-Year-Current	5.11	0.12	0.008	4.87
10-Year-Projected	5.86	0.14	0.009	5.62
100-Year-Current	8.66	0.20	0.014	8.42
100-Year-Projected	11.33	0.27	0.018	11.09

Events for Subcatchment 47S: Pervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	0.74	0.064	1.51
2-Year-Projected	3.84	0.96	0.081	1.91
10-Year-Current	5.11	1.46	0.127	2.99
10-Year-Projected	5.86	1.84	0.155	3.66
100-Year-Current	8.66	2.98	0.265	6.25
100-Year-Projected	11.33	4.26	0.374	8.80

Events for Pond 44P: Ex. Basin						
Event	Inflow (cfs)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)	Elevation (feet)	Storage (acre-feet)
2-Year-Current	4.02	1.79	1.79	0.00	135.36	0.040
2-Year-Projected	4.92	1.95	1.95	0.00	135.58	0.054
10-Year-Current	7.03	2.28	2.28	0.00	136.07	0.094
10-Year-Projected	8.43	4.02	4.02	0.00	136.26	0.112
100-Year-Current	13.23	11.40	11.40	0.00	136.51	0.139
100-Year-Projected	18.10	16.33	16.33	0.00	136.64	0.155

Events for Link 37L: DA Ex Basin			
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	4.02	4.02	0.00
2-Year-Projected	4.92	4.92	0.00
10-Year-Current	7.03	7.03	0.00
10-Year-Projected	8.43	8.43	0.00
100-Year-Current	13.23	13.23	0.00
100-Year-Projected	18.10	18.10	0.00

2026-05 Existing Hydrology

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Multi-Event Tables
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Events for Link 43L: POA 1 Total

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	2.54	2.54	0.00
2-Year-Projected	2.94	2.94	0.00
10-Year-Current	3.76	3.76	0.00
10-Year-Projected	5.90	5.90	0.00
100-Year-Current	14.04	14.04	0.00
100-Year-Projected	20.04	20.04	0.00

2026-05 Existing Hydrology

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Multi-Event Tables
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Events for Link 45L: DA Undetained

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	0.76	0.76	0.00
2-Year-Projected	0.99	0.99	0.00
10-Year-Current	1.49	1.49	0.00
10-Year-Projected	1.88	1.88	0.00
100-Year-Current	3.05	3.05	0.00
100-Year-Projected	4.35	4.35	0.00

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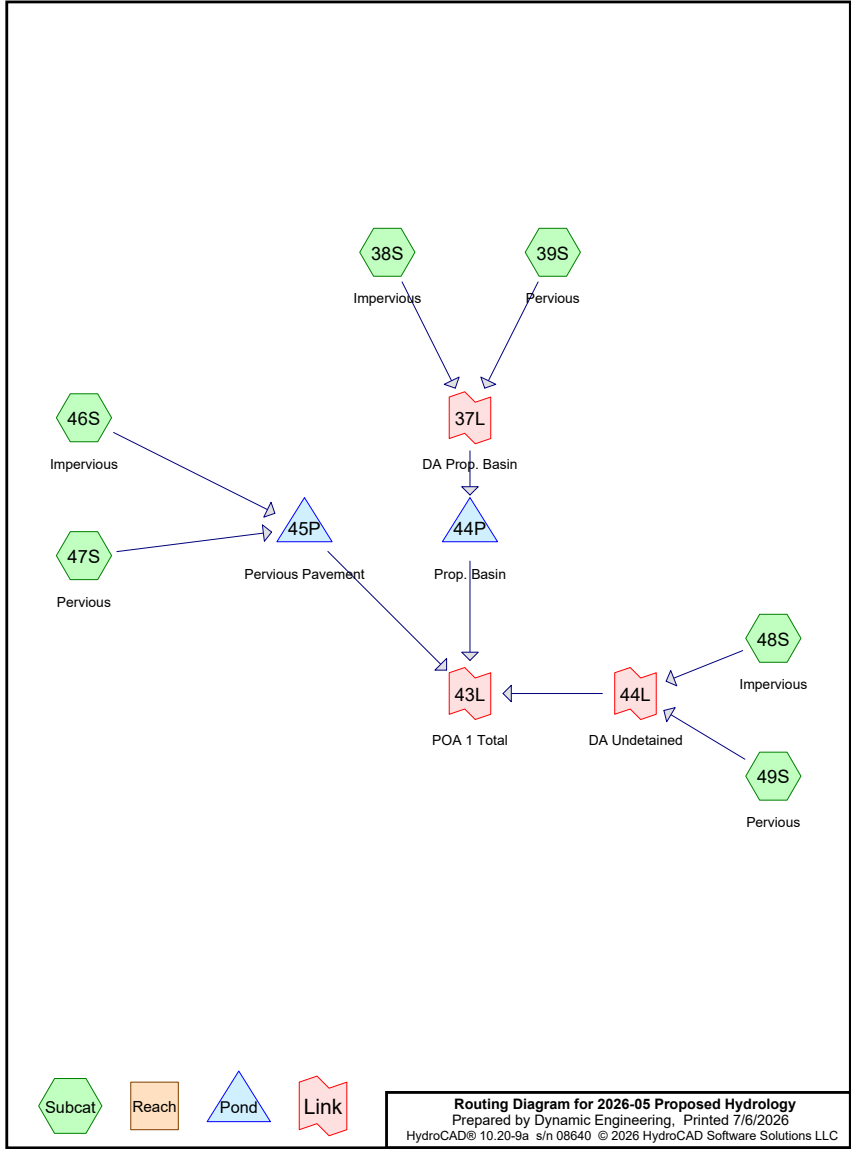
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2026-05 Proposed Hydrology

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2-Year-Current	NOAA 24-hr	C	Default	24.00	1	3.34	2	3.34
2	2-Year-Projected	NOAA 24-hr	C	Default	24.00	1	3.84	2	3.84
3	10-Year-Current	NOAA 24-hr	C	Default	24.00	1	5.11	2	3.34
4	10-Year-Projected	NOAA 24-hr	C	Default	24.00	1	5.86	2	3.84
5	100-Year-Current	NOAA 24-hr	C	Default	24.00	1	8.66	2	3.34
6	100-Year-Projected	NOAA 24-hr	C	Default	24.00	1	11.33	2	3.84
7	WQ	NJ DEP 2-hr		Default	2.00	1	1.25	2	3.34

Area Listing (all nodes)		
Area (acres)	CN	Description (subcatchment-numbers)
0.930	80	>75% Grass cover, Good, HSG D (39S, 47S, 49S)
0.430	98	Paved parking, HSG B (38S)
0.740	98	Paved parking, HSG D (46S, 48S)
2.100	90	TOTAL AREA

Soil Listing (all nodes)		
Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.430	HSG B	38S
0.000	HSG C	
1.670	HSG D	39S, 46S, 47S, 48S, 49S
0.000	Other	
2.100		TOTAL AREA

Ground Covers (all nodes)							
HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.930	0.000	0.930	>75% Grass cover, Good	39S, 47S, 49S
0.000	0.430	0.000	0.740	0.000	1.170	Paved parking	38S, 46S, 48S
0.000	0.430	0.000	1.670	0.000	2.100	TOTAL AREA	

Pipe Listing (all nodes)										
Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	38S	0.00	0.00	272.0	0.0050	0.012	0.0	15.0	0.0	
2	39S	0.00	0.00	278.0	0.0050	0.012	0.0	15.0	0.0	

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=3.11" Flow Length=469' Tc=3.7 min CN=98 Runoff=1.60 cfs 0.111 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=1.51" Flow Length=398' Tc=10.5 min CN=80 Runoff=1.10 cfs 0.084 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=3.11" Flow Length=130' Slope=0.0150 '/' Tc=1.5 min CN=98 Runoff=2.76 cfs 0.184 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=1.51" Flow Length=44' Slope=0.0200 '/' Tc=7.2 min CN=80 Runoff=0.17 cfs 0.011 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=3.11" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.12 cfs 0.008 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=1.51" Flow Length=224' Slope=0.0200 '/' Tc=10.4 min CN=80 Runoff=0.28 cfs 0.021 af
Pond 44P: Prop. Basin	Peak Elev=135.09' Storage=4,128 cf Inflow=2.42 cfs 0.196 af Outflow=0.68 cfs 0.143 af
Pond 45P: Pervious Pavement	Peak Elev=133.43' Storage=5,068 cf Inflow=2.88 cfs 0.195 af Outflow=0.23 cfs 0.174 af
Link 37L: DA Prop. Basin	Inflow=2.42 cfs 0.196 af Primary=2.42 cfs 0.196 af
Link 43L: POA 1 Total	Inflow=1.06 cfs 0.346 af Primary=1.06 cfs 0.346 af
Link 44L: DA Undetained	Inflow=0.32 cfs 0.029 af Primary=0.32 cfs 0.029 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.420 af Average Runoff Depth = 2.40"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 1.60 cfs @ 12.10 hrs, Volume= 0.111 af, Depth= 3.11"
Routed to Link 37L : DA Prop. Basin

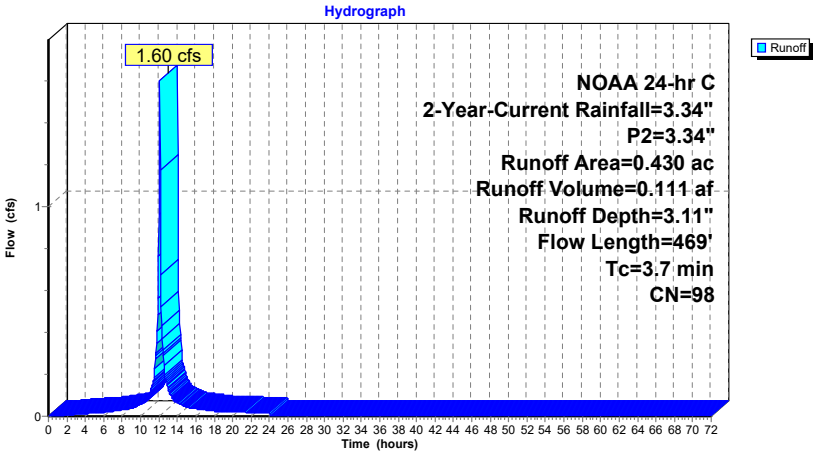
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.7	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	3.11	0.00
1.00	0.04	0.00	0.00	53.00	3.34	3.11	0.00
2.00	0.08	0.01	0.00	54.00	3.34	3.11	0.00
3.00	0.12	0.02	0.01	55.00	3.34	3.11	0.00
4.00	0.16	0.05	0.01	56.00	3.34	3.11	0.00
5.00	0.21	0.08	0.02	57.00	3.34	3.11	0.00
6.00	0.26	0.12	0.02	58.00	3.34	3.11	0.00
7.00	0.33	0.17	0.02	59.00	3.34	3.11	0.00
8.00	0.40	0.23	0.03	60.00	3.34	3.11	0.00
9.00	0.49	0.31	0.04	61.00	3.34	3.11	0.00
10.00	0.61	0.42	0.06	62.00	3.34	3.11	0.00
11.00	0.80	0.60	0.11	63.00	3.34	3.11	0.00
12.00	1.59	1.37	0.97	64.00	3.34	3.11	0.00
13.00	2.54	2.31	0.13	65.00	3.34	3.11	0.00
14.00	2.73	2.50	0.06	66.00	3.34	3.11	0.00
15.00	2.85	2.62	0.04	67.00	3.34	3.11	0.00
16.00	2.94	2.71	0.04	68.00	3.34	3.11	0.00
17.00	3.01	2.78	0.03	69.00	3.34	3.11	0.00
18.00	3.08	2.84	0.02	70.00	3.34	3.11	0.00
19.00	3.13	2.90	0.02	71.00	3.34	3.11	0.00
20.00	3.18	2.94	0.02	72.00	3.34	3.11	0.00
21.00	3.22	2.99	0.02				
22.00	3.26	3.03	0.02				
23.00	3.30	3.07	0.02				
24.00	3.34	3.11	0.02				
25.00	3.34	3.11	0.00				
26.00	3.34	3.11	0.00				
27.00	3.34	3.11	0.00				
28.00	3.34	3.11	0.00				
29.00	3.34	3.11	0.00				
30.00	3.34	3.11	0.00				
31.00	3.34	3.11	0.00				
32.00	3.34	3.11	0.00				
33.00	3.34	3.11	0.00				
34.00	3.34	3.11	0.00				
35.00	3.34	3.11	0.00				
36.00	3.34	3.11	0.00				
37.00	3.34	3.11	0.00				
38.00	3.34	3.11	0.00				
39.00	3.34	3.11	0.00				
40.00	3.34	3.11	0.00				
41.00	3.34	3.11	0.00				
42.00	3.34	3.11	0.00				
43.00	3.34	3.11	0.00				
44.00	3.34	3.11	0.00				
45.00	3.34	3.11	0.00				
46.00	3.34	3.11	0.00				
47.00	3.34	3.11	0.00				
48.00	3.34	3.11	0.00				
49.00	3.34	3.11	0.00				
50.00	3.34	3.11	0.00				
51.00	3.34	3.11	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 1.10 cfs @ 12.19 hrs, Volume= 0.084 af, Depth= 1.51"
Routed to Link 37L : DA Prop. Basin

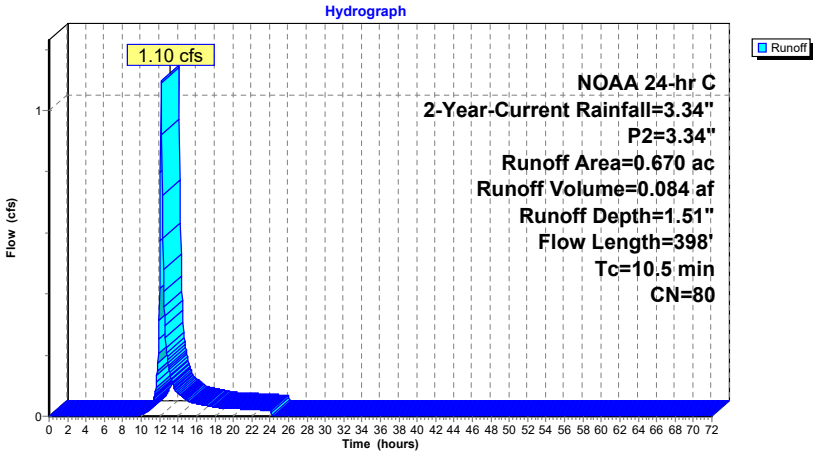
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description			
0.670	80	>75% Grass cover, Good, HSG D			
0.670		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	72	0.0300	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		
1.1	278	0.0050	4.03	4.95	Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
					Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
10.5	398	Total			



Subcatchment 39S: Pervious



2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	1.51	0.00
1.00	0.04	0.00	0.00	53.00	3.34	1.51	0.00
2.00	0.08	0.00	0.00	54.00	3.34	1.51	0.00
3.00	0.12	0.00	0.00	55.00	3.34	1.51	0.00
4.00	0.16	0.00	0.00	56.00	3.34	1.51	0.00
5.00	0.21	0.00	0.00	57.00	3.34	1.51	0.00
6.00	0.26	0.00	0.00	58.00	3.34	1.51	0.00
7.00	0.33	0.00	0.00	59.00	3.34	1.51	0.00
8.00	0.40	0.00	0.00	60.00	3.34	1.51	0.00
9.00	0.49	0.00	0.00	61.00	3.34	1.51	0.00
10.00	0.61	0.00	0.01	62.00	3.34	1.51	0.00
11.00	0.80	0.03	0.03	63.00	3.34	1.51	0.00
12.00	1.59	0.33	0.42	64.00	3.34	1.51	0.00
13.00	2.54	0.92	0.16	65.00	3.34	1.51	0.00
14.00	2.73	1.05	0.07	66.00	3.34	1.51	0.00
15.00	2.85	1.14	0.05	67.00	3.34	1.51	0.00
16.00	2.94	1.21	0.04	68.00	3.34	1.51	0.00
17.00	3.01	1.26	0.04	69.00	3.34	1.51	0.00
18.00	3.08	1.31	0.03	70.00	3.34	1.51	0.00
19.00	3.13	1.35	0.03	71.00	3.34	1.51	0.00
20.00	3.18	1.38	0.02	72.00	3.34	1.51	0.00
21.00	3.22	1.42	0.02				
22.00	3.26	1.45	0.02				
23.00	3.30	1.48	0.02				
24.00	3.34	1.51	0.02				
25.00	3.34	1.51	0.00				
26.00	3.34	1.51	0.00				
27.00	3.34	1.51	0.00				
28.00	3.34	1.51	0.00				
29.00	3.34	1.51	0.00				
30.00	3.34	1.51	0.00				
31.00	3.34	1.51	0.00				
32.00	3.34	1.51	0.00				
33.00	3.34	1.51	0.00				
34.00	3.34	1.51	0.00				
35.00	3.34	1.51	0.00				
36.00	3.34	1.51	0.00				
37.00	3.34	1.51	0.00				
38.00	3.34	1.51	0.00				
39.00	3.34	1.51	0.00				
40.00	3.34	1.51	0.00				
41.00	3.34	1.51	0.00				
42.00	3.34	1.51	0.00				
43.00	3.34	1.51	0.00				
44.00	3.34	1.51	0.00				
45.00	3.34	1.51	0.00				
46.00	3.34	1.51	0.00				
47.00	3.34	1.51	0.00				
48.00	3.34	1.51	0.00				
49.00	3.34	1.51	0.00				
50.00	3.34	1.51	0.00				
51.00	3.34	1.51	0.00				

2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

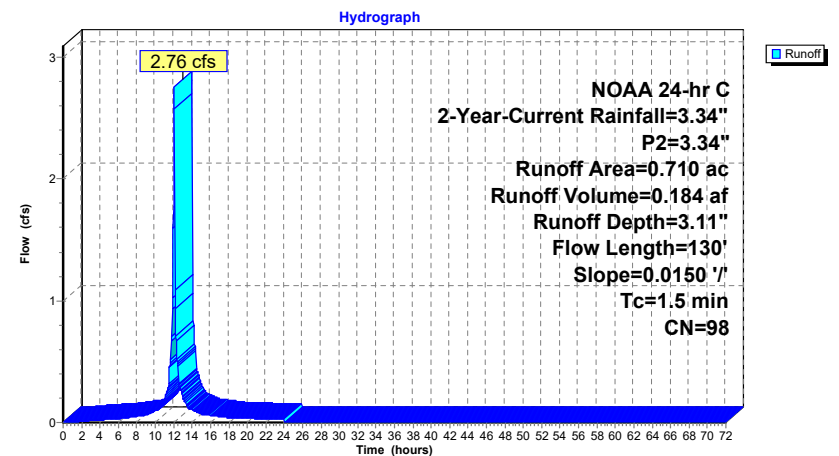
Runoff = 2.76 cfs @ 12.07 hrs, Volume= 0.184 af, Depth= 3.11"
Routed to Pond 45P : Pervious Pavement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0150	1.25		Sheet Flow , Smooth surfaces n= 0.011 P2= 3.34"
0.2	30	0.0150	2.49		Shallow Concentrated Flow , Paved Kv= 20.3 fps
1.5	130	Total			

Subcatchment 46S: Impervious

Subcatchment 46S: Impervious

Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	3.11	0.00
1.00	0.04	0.00	0.00	53.00	3.34	3.11	0.00
2.00	0.08	0.01	0.01	54.00	3.34	3.11	0.00
3.00	0.12	0.02	0.01	55.00	3.34	3.11	0.00
4.00	0.16	0.05	0.02	56.00	3.34	3.11	0.00
5.00	0.21	0.08	0.03	57.00	3.34	3.11	0.00
6.00	0.26	0.12	0.03	58.00	3.34	3.11	0.00
7.00	0.33	0.17	0.04	59.00	3.34	3.11	0.00
8.00	0.40	0.23	0.05	60.00	3.34	3.11	0.00
9.00	0.49	0.31	0.06	61.00	3.34	3.11	0.00
10.00	0.61	0.42	0.10	62.00	3.34	3.11	0.00
11.00	0.80	0.60	0.18	63.00	3.34	3.11	0.00
12.00	1.59	1.37	1.76	64.00	3.34	3.11	0.00
13.00	2.54	2.31	0.21	65.00	3.34	3.11	0.00
14.00	2.73	2.50	0.11	66.00	3.34	3.11	0.00
15.00	2.85	2.62	0.07	67.00	3.34	3.11	0.00
16.00	2.94	2.71	0.06	68.00	3.34	3.11	0.00
17.00	3.01	2.78	0.05	69.00	3.34	3.11	0.00
18.00	3.08	2.84	0.04	70.00	3.34	3.11	0.00
19.00	3.13	2.90	0.04	71.00	3.34	3.11	0.00
20.00	3.18	2.94	0.03	72.00	3.34	3.11	0.00
21.00	3.22	2.99	0.03				
22.00	3.26	3.03	0.03				
23.00	3.30	3.07	0.03				
24.00	3.34	3.11	0.03				
25.00	3.34	3.11	0.00				
26.00	3.34	3.11	0.00				
27.00	3.34	3.11	0.00				
28.00	3.34	3.11	0.00				
29.00	3.34	3.11	0.00				
30.00	3.34	3.11	0.00				
31.00	3.34	3.11	0.00				
32.00	3.34	3.11	0.00				
33.00	3.34	3.11	0.00				
34.00	3.34	3.11	0.00				
35.00	3.34	3.11	0.00				
36.00	3.34	3.11	0.00				
37.00	3.34	3.11	0.00				
38.00	3.34	3.11	0.00				
39.00	3.34	3.11	0.00				
40.00	3.34	3.11	0.00				
41.00	3.34	3.11	0.00				
42.00	3.34	3.11	0.00				
43.00	3.34	3.11	0.00				
44.00	3.34	3.11	0.00				
45.00	3.34	3.11	0.00				
46.00	3.34	3.11	0.00				
47.00	3.34	3.11	0.00				
48.00	3.34	3.11	0.00				
49.00	3.34	3.11	0.00				
50.00	3.34	3.11	0.00				
51.00	3.34	3.11	0.00				

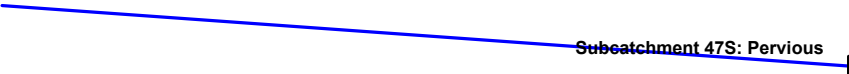
Summary for Subcatchment 47S: Pervious

Runoff = 0.17 cfs @ 12.15 hrs, Volume= 0.011 af, Depth= 1.51"
Routed to Pond 45P : Pervious Pavement

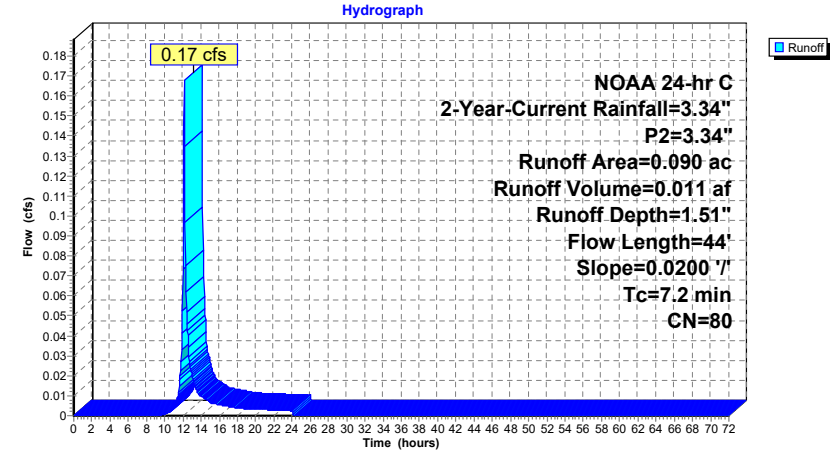
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	44	0.0200	0.10		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	1.51	0.00
1.00	0.04	0.00	0.00	53.00	3.34	1.51	0.00
2.00	0.08	0.00	0.00	54.00	3.34	1.51	0.00
3.00	0.12	0.00	0.00	55.00	3.34	1.51	0.00
4.00	0.16	0.00	0.00	56.00	3.34	1.51	0.00
5.00	0.21	0.00	0.00	57.00	3.34	1.51	0.00
6.00	0.26	0.00	0.00	58.00	3.34	1.51	0.00
7.00	0.33	0.00	0.00	59.00	3.34	1.51	0.00
8.00	0.40	0.00	0.00	60.00	3.34	1.51	0.00
9.00	0.49	0.00	0.00	61.00	3.34	1.51	0.00
10.00	0.61	0.00	0.00	62.00	3.34	1.51	0.00
11.00	0.80	0.03	0.00	63.00	3.34	1.51	0.00
12.00	1.59	0.33	0.07	64.00	3.34	1.51	0.00
13.00	2.54	0.92	0.02	65.00	3.34	1.51	0.00
14.00	2.73	1.05	0.01	66.00	3.34	1.51	0.00
15.00	2.85	1.14	0.01	67.00	3.34	1.51	0.00
16.00	2.94	1.21	0.01	68.00	3.34	1.51	0.00
17.00	3.01	1.26	0.00	69.00	3.34	1.51	0.00
18.00	3.08	1.31	0.00	70.00	3.34	1.51	0.00
19.00	3.13	1.35	0.00	71.00	3.34	1.51	0.00
20.00	3.18	1.38	0.00	72.00	3.34	1.51	0.00
21.00	3.22	1.42	0.00				
22.00	3.26	1.45	0.00				
23.00	3.30	1.48	0.00				
24.00	3.34	1.51	0.00				
25.00	3.34	1.51	0.00				
26.00	3.34	1.51	0.00				
27.00	3.34	1.51	0.00				
28.00	3.34	1.51	0.00				
29.00	3.34	1.51	0.00				
30.00	3.34	1.51	0.00				
31.00	3.34	1.51	0.00				
32.00	3.34	1.51	0.00				
33.00	3.34	1.51	0.00				
34.00	3.34	1.51	0.00				
35.00	3.34	1.51	0.00				
36.00	3.34	1.51	0.00				
37.00	3.34	1.51	0.00				
38.00	3.34	1.51	0.00				
39.00	3.34	1.51	0.00				
40.00	3.34	1.51	0.00				
41.00	3.34	1.51	0.00				
42.00	3.34	1.51	0.00				
43.00	3.34	1.51	0.00				
44.00	3.34	1.51	0.00				
45.00	3.34	1.51	0.00				
46.00	3.34	1.51	0.00				
47.00	3.34	1.51	0.00				
48.00	3.34	1.51	0.00				
49.00	3.34	1.51	0.00				
50.00	3.34	1.51	0.00				
51.00	3.34	1.51	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.12 cfs @ 12.07 hrs, Volume= 0.008 af, Depth= 3.11"
Routed to Link 44L : DA Undetained

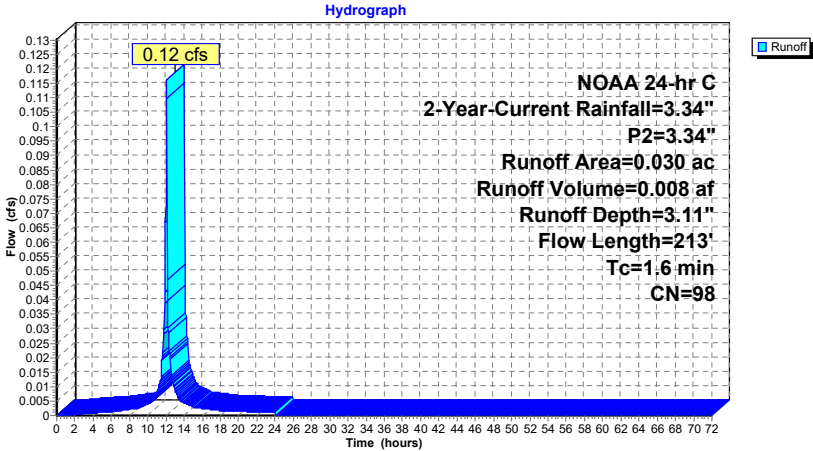
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.69		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	3.11	0.00
1.00	0.04	0.00	0.00	53.00	3.34	3.11	0.00
2.00	0.08	0.01	0.00	54.00	3.34	3.11	0.00
3.00	0.12	0.02	0.00	55.00	3.34	3.11	0.00
4.00	0.16	0.05	0.00	56.00	3.34	3.11	0.00
5.00	0.21	0.08	0.00	57.00	3.34	3.11	0.00
6.00	0.26	0.12	0.00	58.00	3.34	3.11	0.00
7.00	0.33	0.17	0.00	59.00	3.34	3.11	0.00
8.00	0.40	0.23	0.00	60.00	3.34	3.11	0.00
9.00	0.49	0.31	0.00	61.00	3.34	3.11	0.00
10.00	0.61	0.42	0.00	62.00	3.34	3.11	0.00
11.00	0.80	0.60	0.01	63.00	3.34	3.11	0.00
12.00	1.59	1.37	0.07	64.00	3.34	3.11	0.00
13.00	2.54	2.31	0.01	65.00	3.34	3.11	0.00
14.00	2.73	2.50	0.00	66.00	3.34	3.11	0.00
15.00	2.85	2.62	0.00	67.00	3.34	3.11	0.00
16.00	2.94	2.71	0.00	68.00	3.34	3.11	0.00
17.00	3.01	2.78	0.00	69.00	3.34	3.11	0.00
18.00	3.08	2.84	0.00	70.00	3.34	3.11	0.00
19.00	3.13	2.90	0.00	71.00	3.34	3.11	0.00
20.00	3.18	2.94	0.00	72.00	3.34	3.11	0.00
21.00	3.22	2.99	0.00				
22.00	3.26	3.03	0.00				
23.00	3.30	3.07	0.00				
24.00	3.34	3.11	0.00				
25.00	3.34	3.11	0.00				
26.00	3.34	3.11	0.00				
27.00	3.34	3.11	0.00				
28.00	3.34	3.11	0.00				
29.00	3.34	3.11	0.00				
30.00	3.34	3.11	0.00				
31.00	3.34	3.11	0.00				
32.00	3.34	3.11	0.00				
33.00	3.34	3.11	0.00				
34.00	3.34	3.11	0.00				
35.00	3.34	3.11	0.00				
36.00	3.34	3.11	0.00				
37.00	3.34	3.11	0.00				
38.00	3.34	3.11	0.00				
39.00	3.34	3.11	0.00				
40.00	3.34	3.11	0.00				
41.00	3.34	3.11	0.00				
42.00	3.34	3.11	0.00				
43.00	3.34	3.11	0.00				
44.00	3.34	3.11	0.00				
45.00	3.34	3.11	0.00				
46.00	3.34	3.11	0.00				
47.00	3.34	3.11	0.00				
48.00	3.34	3.11	0.00				
49.00	3.34	3.11	0.00				
50.00	3.34	3.11	0.00				
51.00	3.34	3.11	0.00				

Summary for Subcatchment 49S: Pervious

Runoff = 0.28 cfs @ 12.19 hrs, Volume= 0.021 af, Depth= 1.51"
Routed to Link 44L : DA Undetained

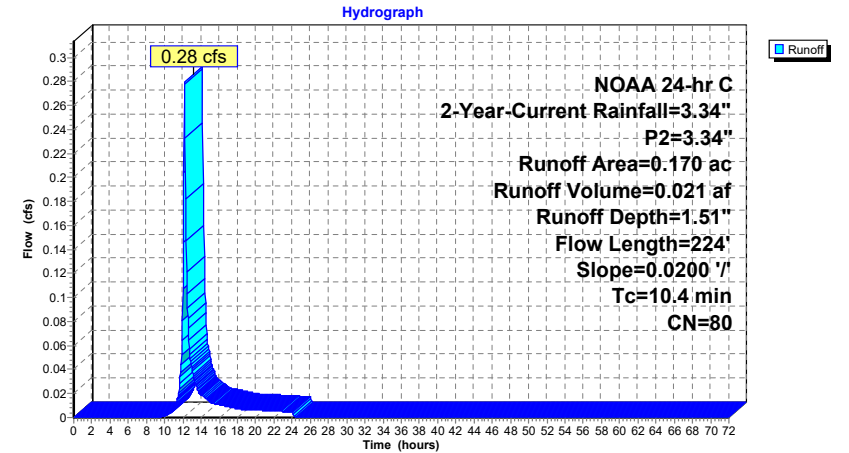
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	59	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
10.4	224	Total			



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.34	1.51	0.00
1.00	0.04	0.00	0.00	53.00	3.34	1.51	0.00
2.00	0.08	0.00	0.00	54.00	3.34	1.51	0.00
3.00	0.12	0.00	0.00	55.00	3.34	1.51	0.00
4.00	0.16	0.00	0.00	56.00	3.34	1.51	0.00
5.00	0.21	0.00	0.00	57.00	3.34	1.51	0.00
6.00	0.26	0.00	0.00	58.00	3.34	1.51	0.00
7.00	0.33	0.00	0.00	59.00	3.34	1.51	0.00
8.00	0.40	0.00	0.00	60.00	3.34	1.51	0.00
9.00	0.49	0.00	0.00	61.00	3.34	1.51	0.00
10.00	0.61	0.00	0.00	62.00	3.34	1.51	0.00
11.00	0.80	0.03	0.01	63.00	3.34	1.51	0.00
12.00	1.59	0.33	0.11	64.00	3.34	1.51	0.00
13.00	2.54	0.92	0.04	65.00	3.34	1.51	0.00
14.00	2.73	1.05	0.02	66.00	3.34	1.51	0.00
15.00	2.85	1.14	0.01	67.00	3.34	1.51	0.00
16.00	2.94	1.21	0.01	68.00	3.34	1.51	0.00
17.00	3.01	1.26	0.01	69.00	3.34	1.51	0.00
18.00	3.08	1.31	0.01	70.00	3.34	1.51	0.00
19.00	3.13	1.35	0.01	71.00	3.34	1.51	0.00
20.00	3.18	1.38	0.01	72.00	3.34	1.51	0.00
21.00	3.22	1.42	0.01				
22.00	3.26	1.45	0.01				
23.00	3.30	1.48	0.01				
24.00	3.34	1.51	0.00				
25.00	3.34	1.51	0.00				
26.00	3.34	1.51	0.00				
27.00	3.34	1.51	0.00				
28.00	3.34	1.51	0.00				
29.00	3.34	1.51	0.00				
30.00	3.34	1.51	0.00				
31.00	3.34	1.51	0.00				
32.00	3.34	1.51	0.00				
33.00	3.34	1.51	0.00				
34.00	3.34	1.51	0.00				
35.00	3.34	1.51	0.00				
36.00	3.34	1.51	0.00				
37.00	3.34	1.51	0.00				
38.00	3.34	1.51	0.00				
39.00	3.34	1.51	0.00				
40.00	3.34	1.51	0.00				
41.00	3.34	1.51	0.00				
42.00	3.34	1.51	0.00				
43.00	3.34	1.51	0.00				
44.00	3.34	1.51	0.00				
45.00	3.34	1.51	0.00				
46.00	3.34	1.51	0.00				
47.00	3.34	1.51	0.00				
48.00	3.34	1.51	0.00				
49.00	3.34	1.51	0.00				
50.00	3.34	1.51	0.00				
51.00	3.34	1.51	0.00				

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 2.13" for 2-Year-Current event
Inflow = 2.42 cfs @ 12.11 hrs, Volume= 0.196 af
Outflow = 0.68 cfs @ 12.47 hrs, Volume= 0.143 af, Atten= 72%, Lag= 21.7 min
Primary = 0.68 cfs @ 12.47 hrs, Volume= 0.143 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 135.09' @ 12.47 hrs Surf.Area= 2,715 sf Storage= 4,128 cf

Plug-Flow detention time= 226.0 min calculated for 0.143 af (73% of inflow)
Center-of-Mass det. time= 128.9 min (923.8 - 794.9)

Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

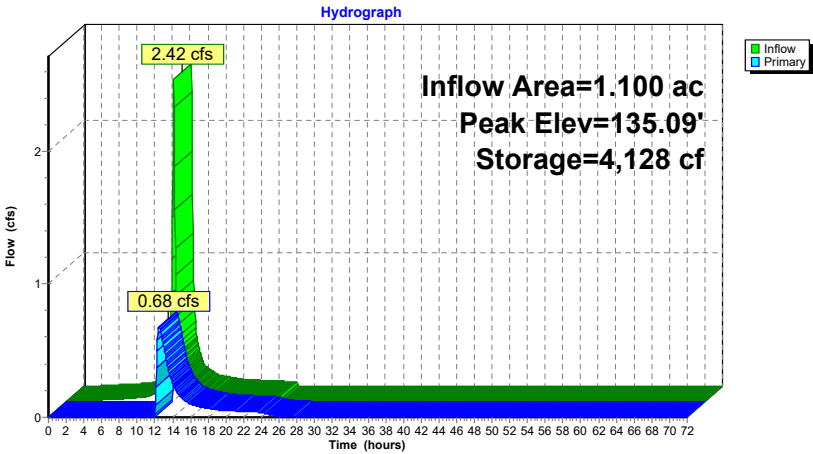
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

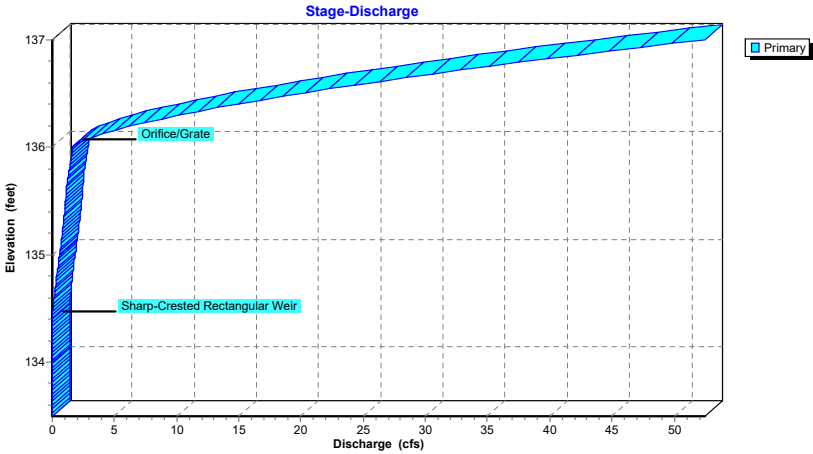
Primary OutFlow Max=0.68 cfs @ 12.47 hrs HW=135.09' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 0.68 cfs @ 2.72 fps)
2=Orifice/Grate (Controls 0.00 cfs)



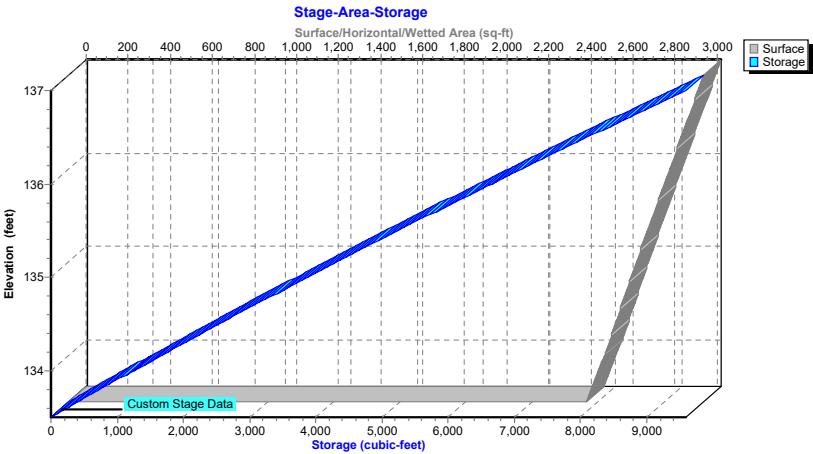
Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.01	17	133.51	0.00
5.00	0.02	119	133.55	0.00
7.50	0.03	300	133.62	0.00
10.00	0.06	648	133.76	0.00
12.50	0.65	4,126	135.09	0.68
15.00	0.09	2,842	134.61	0.15
17.50	0.06	2,622	134.53	0.07
20.00	0.05	2,545	134.50	0.05
22.50	0.04	2,512	134.49	0.04
25.00	0.00	2,414	134.45	0.02
27.50	0.00	2,329	134.42	0.00
30.00	0.00	2,307	134.41	0.00
32.50	0.00	2,297	134.40	0.00
35.00	0.00	2,292	134.40	0.00
37.50	0.00	2,289	134.40	0.00
40.00	0.00	2,287	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,285	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

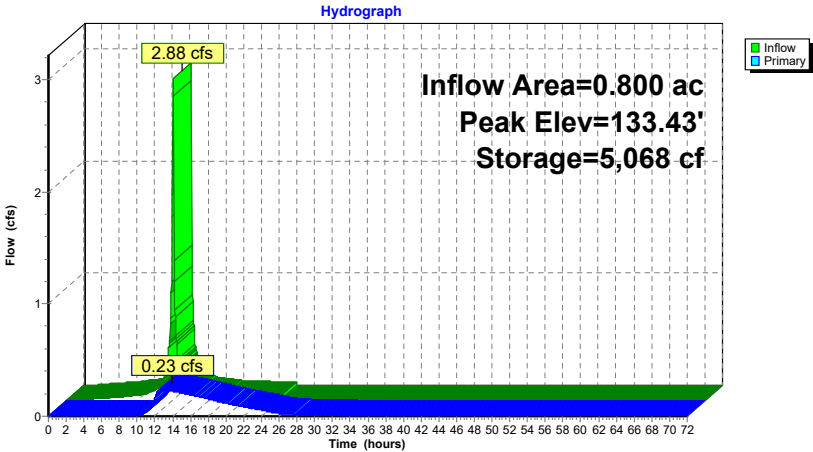
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

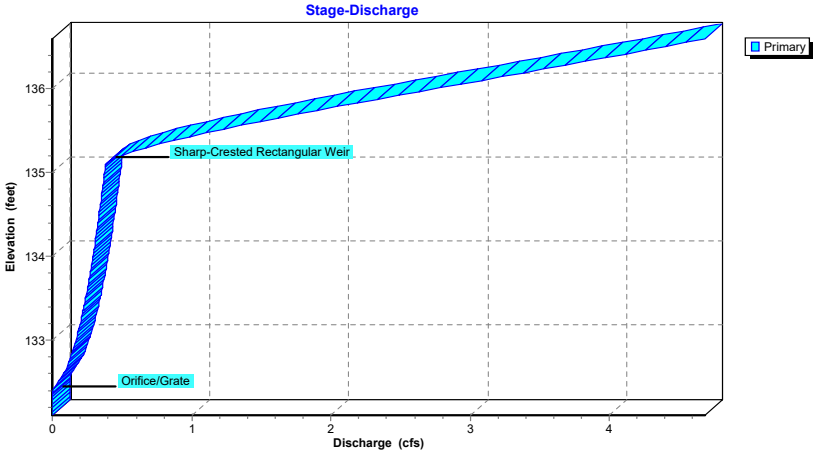
Inflow Area =	0.800 ac, 88.75% Impervious,	Inflow Depth = 2.93"	for 2-Year-Current event
Inflow =	2.88 cfs @ 12.07 hrs,	Volume=	0.195 af
Outflow =	0.23 cfs @ 12.99 hrs,	Volume=	0.174 af, Atten= 92%, Lag= 54.9 min
Primary =	0.23 cfs @ 12.99 hrs,	Volume=	0.174 af
Routed to Link 43L : POA 1 Total			
Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs			
Peak Elev= 133.43' @ 12.99 hrs Surf.Area= 9,150 sf Storage= 5,068 cf			
Plug-Flow detention time= 355.8 min calculated for 0.174 af (89% of inflow)			
Center-of-Mass det. time= 302.2 min (1,060.0 - 757.8)			
Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below
			41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1
			L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1
			L= 502.0'
		16,662 cf	Total Available Storage
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175
Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
Primary OutFlow Max=0.23 cfs @ 12.99 hrs HW=133.43' (Free Discharge)			
1=Orifice/Grate (Orifice Controls 0.23 cfs @ 4.71 fps)			
2=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)			



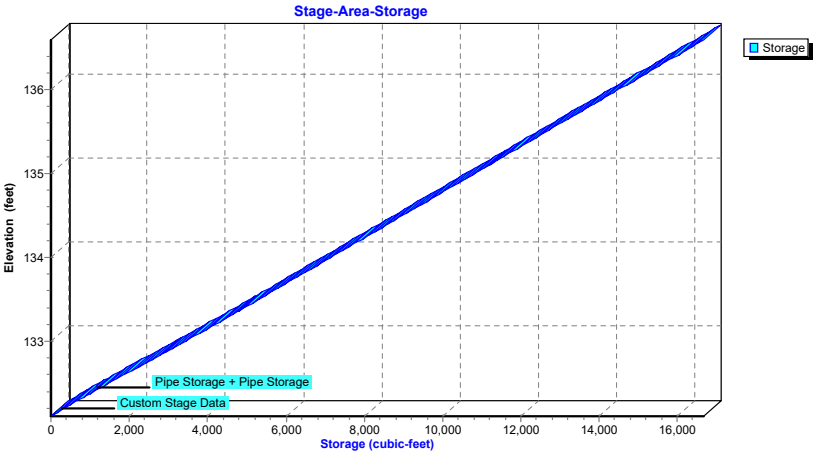
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.01	30	132.11	0.00
5.00	0.03	200	132.15	0.00
7.50	0.04	501	132.24	0.00
10.00	0.10	1,068	132.39	0.00
12.50	0.50	4,933	133.40	0.23
15.00	0.08	4,370	133.24	0.21
17.50	0.05	3,251	132.95	0.16
20.00	0.04	2,363	132.72	0.12
22.50	0.03	1,802	132.58	0.08
25.00	0.00	1,452	132.49	0.04
27.50	0.00	1,239	132.44	0.02
30.00	0.00	1,141	132.41	0.01
32.50	0.00	1,083	132.39	0.01
35.00	0.00	1,045	132.38	0.00
37.50	0.00	1,019	132.38	0.00
40.00	0.00	1,003	132.37	0.00
42.50	0.00	992	132.37	0.00
45.00	0.00	984	132.37	0.00
47.50	0.00	977	132.37	0.00
50.00	0.00	971	132.36	0.00
52.50	0.00	965	132.36	0.00
55.00	0.00	960	132.36	0.00
57.50	0.00	955	132.36	0.00
60.00	0.00	951	132.36	0.00
62.50	0.00	948	132.36	0.00
65.00	0.00	944	132.36	0.00
67.50	0.00	941	132.36	0.00
70.00	0.00	939	132.36	0.00

2026-05 Proposed Hydrology

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

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Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

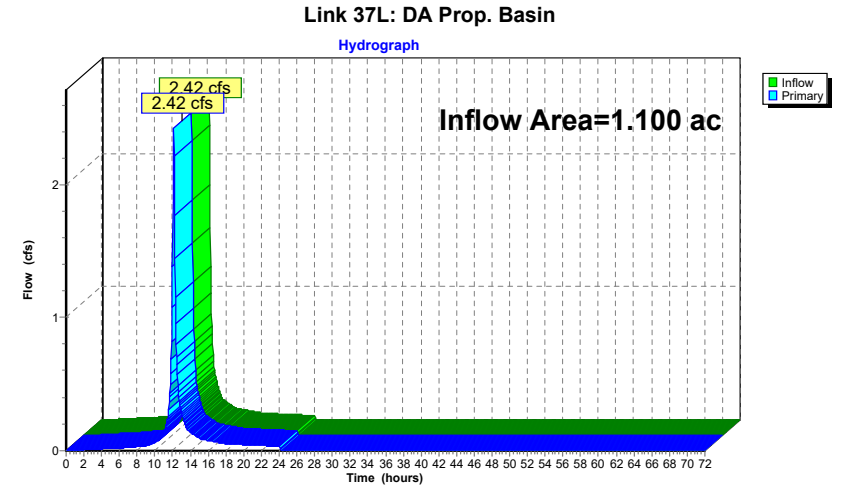
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 2.13" for 2-Year-Current event
Inflow = 2.42 cfs @ 12.11 hrs, Volume= 0.196 af
Primary = 2.42 cfs @ 12.11 hrs, Volume= 0.196 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



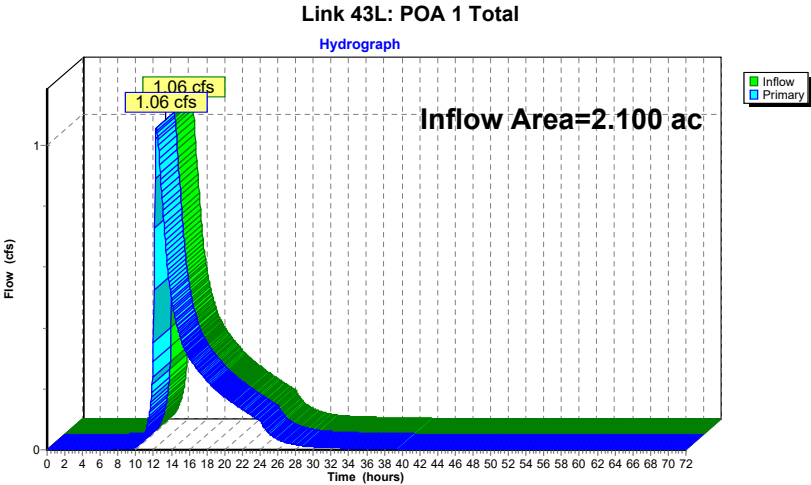
Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.01	0.00	0.01	55.00	0.00	0.00	0.00
4.00	0.01	0.00	0.01	56.00	0.00	0.00	0.00
5.00	0.02	0.00	0.02	57.00	0.00	0.00	0.00
6.00	0.02	0.00	0.02	58.00	0.00	0.00	0.00
7.00	0.02	0.00	0.02	59.00	0.00	0.00	0.00
8.00	0.03	0.00	0.03	60.00	0.00	0.00	0.00
9.00	0.04	0.00	0.04	61.00	0.00	0.00	0.00
10.00	0.06	0.00	0.06	62.00	0.00	0.00	0.00
11.00	0.14	0.00	0.14	63.00	0.00	0.00	0.00
12.00	1.38	0.00	1.38	64.00	0.00	0.00	0.00
13.00	0.29	0.00	0.29	65.00	0.00	0.00	0.00
14.00	0.14	0.00	0.14	66.00	0.00	0.00	0.00
15.00	0.09	0.00	0.09	67.00	0.00	0.00	0.00
16.00	0.08	0.00	0.08	68.00	0.00	0.00	0.00
17.00	0.07	0.00	0.07	69.00	0.00	0.00	0.00
18.00	0.05	0.00	0.05	70.00	0.00	0.00	0.00
19.00	0.05	0.00	0.05	71.00	0.00	0.00	0.00
20.00	0.05	0.00	0.05	72.00	0.00	0.00	0.00
21.00	0.04	0.00	0.04				
22.00	0.04	0.00	0.04				
23.00	0.04	0.00	0.04				
24.00	0.04	0.00	0.04				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth > 1.98" for 2-Year-Current event
Inflow = 1.06 cfs @ 12.29 hrs, Volume= 0.346 af
Primary = 1.06 cfs @ 12.29 hrs, Volume= 0.346 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



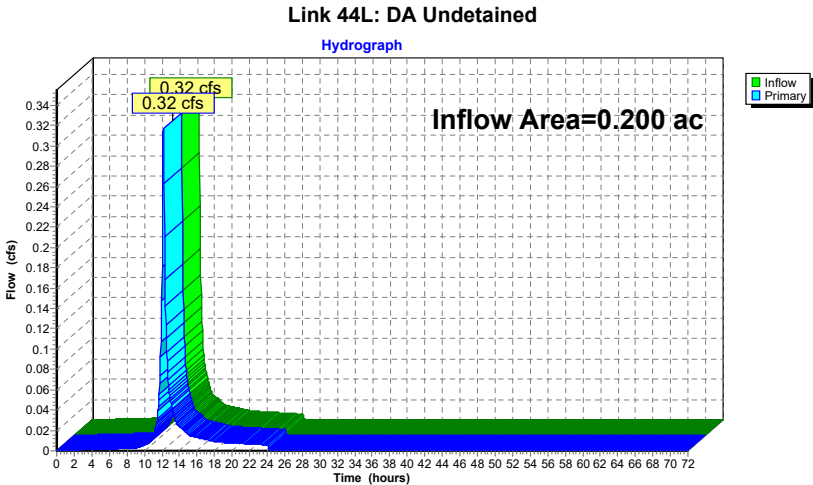
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.05	0.00	0.05	63.00	0.00	0.00	0.00
12.00	0.35	0.00	0.35	64.00	0.00	0.00	0.00
13.00	0.81	0.00	0.81	65.00	0.00	0.00	0.00
14.00	0.50	0.00	0.50	66.00	0.00	0.00	0.00
15.00	0.37	0.00	0.37	67.00	0.00	0.00	0.00
16.00	0.30	0.00	0.30	68.00	0.00	0.00	0.00
17.00	0.26	0.00	0.26	69.00	0.00	0.00	0.00
18.00	0.23	0.00	0.23	70.00	0.00	0.00	0.00
19.00	0.20	0.00	0.20	71.00	0.00	0.00	0.00
20.00	0.17	0.00	0.17	72.00	0.00	0.00	0.00
21.00	0.15	0.00	0.15				
22.00	0.13	0.00	0.13				
23.00	0.11	0.00	0.11				
24.00	0.10	0.00	0.10				
25.00	0.05	0.00	0.05				
26.00	0.03	0.00	0.03				
27.00	0.02	0.00	0.02				
28.00	0.02	0.00	0.02				
29.00	0.01	0.00	0.01				
30.00	0.01	0.00	0.01				
31.00	0.01	0.00	0.01				
32.00	0.01	0.00	0.01				
33.00	0.01	0.00	0.01				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 1.75" for 2-Year-Current event
Inflow = 0.32 cfs @ 12.20 hrs, Volume= 0.029 af
Primary = 0.32 cfs @ 12.20 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Current Rainfall=3.34", P2=3.34"

Printed 7/6/2026

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Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.02	0.00	0.02	63.00	0.00	0.00	0.00
12.00	0.18	0.00	0.18	64.00	0.00	0.00	0.00
13.00	0.05	0.00	0.05	65.00	0.00	0.00	0.00
14.00	0.02	0.00	0.02	66.00	0.00	0.00	0.00
15.00	0.02	0.00	0.02	67.00	0.00	0.00	0.00
16.00	0.01	0.00	0.01	68.00	0.00	0.00	0.00
17.00	0.01	0.00	0.01	69.00	0.00	0.00	0.00
18.00	0.01	0.00	0.01	70.00	0.00	0.00	0.00
19.00	0.01	0.00	0.01	71.00	0.00	0.00	0.00
20.00	0.01	0.00	0.01	72.00	0.00	0.00	0.00
21.00	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Printed 7/6/2026

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=3.61" Flow Length=469' Tc=3.6 min CN=98 Runoff=1.86 cfs 0.129 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=1.91" Flow Length=398' Tc=9.9 min CN=80 Runoff=1.42 cfs 0.107 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=3.61" Flow Length=130' Slope=0.0150 '/' Tc=1.4 min CN=98 Runoff=3.19 cfs 0.213 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=1.91" Flow Length=44' Slope=0.0200 '/' Tc=6.8 min CN=80 Runoff=0.22 cfs 0.014 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=3.61" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.13 cfs 0.009 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=1.91" Flow Length=224' Slope=0.0200 '/' Tc=9.7 min CN=80 Runoff=0.36 cfs 0.027 af
Pond 44P: Prop. Basin	Peak Elev=135.33' Storage=4,771 cf Inflow=2.96 cfs 0.236 af Outflow=0.92 cfs 0.183 af
Pond 45P: Pervious Pavement	Peak Elev=133.65' Storage=5,874 cf Inflow=3.34 cfs 0.228 af Outflow=0.26 cfs 0.206 af
Link 37L: DA Prop. Basin	Inflow=2.96 cfs 0.236 af Primary=2.96 cfs 0.236 af
Link 43L: POA 1 Total	Inflow=1.42 cfs 0.426 af Primary=1.42 cfs 0.426 af
Link 44L: DA Undetained	Inflow=0.41 cfs 0.036 af Primary=0.41 cfs 0.036 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.500 af Average Runoff Depth = 2.85"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 1.86 cfs @ 12.09 hrs, Volume= 0.129 af, Depth= 3.61"
Routed to Link 37L : DA Prop. Basin

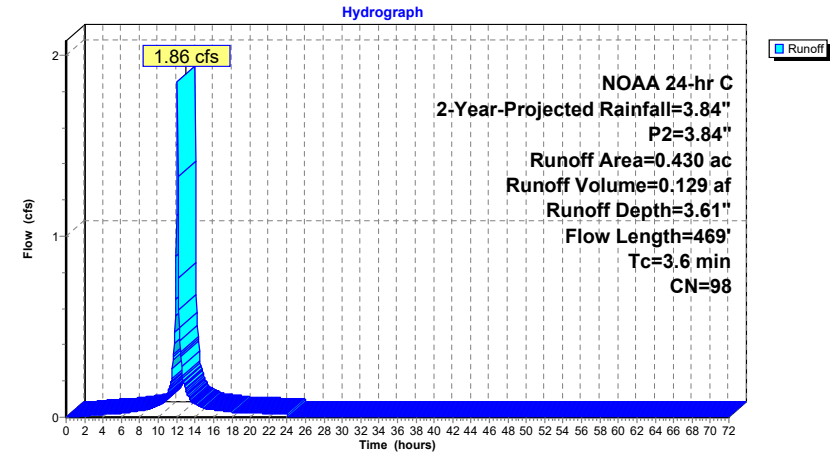
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.6	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

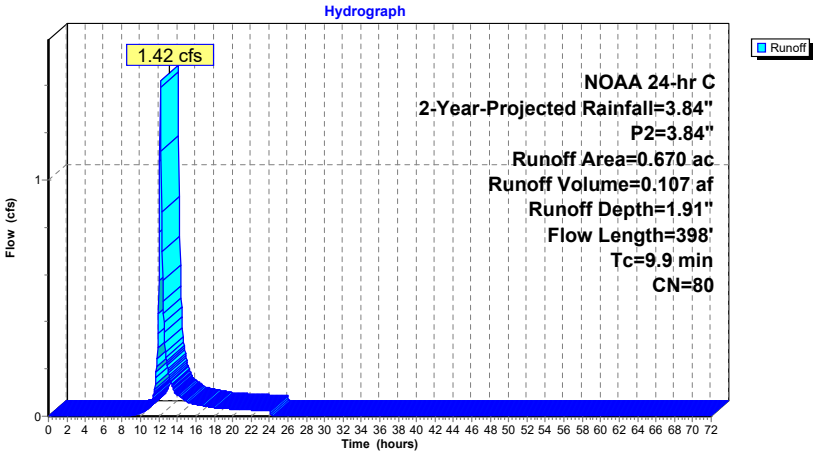
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	3.61	0.00
1.00	0.04	0.00	0.00	53.00	3.84	3.61	0.00
2.00	0.09	0.01	0.01	54.00	3.84	3.61	0.00
3.00	0.14	0.03	0.01	55.00	3.84	3.61	0.00
4.00	0.19	0.06	0.02	56.00	3.84	3.61	0.00
5.00	0.24	0.10	0.02	57.00	3.84	3.61	0.00
6.00	0.30	0.15	0.02	58.00	3.84	3.61	0.00
7.00	0.37	0.21	0.03	59.00	3.84	3.61	0.00
8.00	0.46	0.28	0.04	60.00	3.84	3.61	0.00
9.00	0.56	0.37	0.04	61.00	3.84	3.61	0.00
10.00	0.70	0.50	0.07	62.00	3.84	3.61	0.00
11.00	0.92	0.72	0.13	63.00	3.84	3.61	0.00
12.00	1.83	1.61	1.12	64.00	3.84	3.61	0.00
13.00	2.92	2.69	0.15	65.00	3.84	3.61	0.00
14.00	3.14	2.91	0.07	66.00	3.84	3.61	0.00
15.00	3.28	3.05	0.05	67.00	3.84	3.61	0.00
16.00	3.38	3.15	0.04	68.00	3.84	3.61	0.00
17.00	3.47	3.23	0.03	69.00	3.84	3.61	0.00
18.00	3.54	3.30	0.03	70.00	3.84	3.61	0.00
19.00	3.60	3.36	0.03	71.00	3.84	3.61	0.00
20.00	3.65	3.42	0.02	72.00	3.84	3.61	0.00
21.00	3.70	3.47	0.02				
22.00	3.75	3.52	0.02				
23.00	3.80	3.56	0.02				
24.00	3.84	3.61	0.02				
25.00	3.84	3.61	0.00				
26.00	3.84	3.61	0.00				
27.00	3.84	3.61	0.00				
28.00	3.84	3.61	0.00				
29.00	3.84	3.61	0.00				
30.00	3.84	3.61	0.00				
31.00	3.84	3.61	0.00				
32.00	3.84	3.61	0.00				
33.00	3.84	3.61	0.00				
34.00	3.84	3.61	0.00				
35.00	3.84	3.61	0.00				
36.00	3.84	3.61	0.00				
37.00	3.84	3.61	0.00				
38.00	3.84	3.61	0.00				
39.00	3.84	3.61	0.00				
40.00	3.84	3.61	0.00				
41.00	3.84	3.61	0.00				
42.00	3.84	3.61	0.00				
43.00	3.84	3.61	0.00				
44.00	3.84	3.61	0.00				
45.00	3.84	3.61	0.00				
46.00	3.84	3.61	0.00				
47.00	3.84	3.61	0.00				
48.00	3.84	3.61	0.00				
49.00	3.84	3.61	0.00				
50.00	3.84	3.61	0.00				
51.00	3.84	3.61	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 1.42 cfs @ 12.18 hrs, Volume= 0.107 af, Depth= 1.91"					
Routed to Link 37L : DA Prop. Basin					
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs					
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"					
Area (ac)	CN	Description			
0.670	80	>75% Grass cover, Good, HSG D			
0.670		100.00% Pervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	72	0.0300	0.14		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	278	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.9	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	1.91	0.00
1.00	0.04	0.00	0.00	53.00	3.84	1.91	0.00
2.00	0.09	0.00	0.00	54.00	3.84	1.91	0.00
3.00	0.14	0.00	0.00	55.00	3.84	1.91	0.00
4.00	0.19	0.00	0.00	56.00	3.84	1.91	0.00
5.00	0.24	0.00	0.00	57.00	3.84	1.91	0.00
6.00	0.30	0.00	0.00	58.00	3.84	1.91	0.00
7.00	0.37	0.00	0.00	59.00	3.84	1.91	0.00
8.00	0.46	0.00	0.00	60.00	3.84	1.91	0.00
9.00	0.56	0.00	0.00	61.00	3.84	1.91	0.00
10.00	0.70	0.01	0.01	62.00	3.84	1.91	0.00
11.00	0.92	0.06	0.05	63.00	3.84	1.91	0.00
12.00	1.83	0.46	0.58	64.00	3.84	1.91	0.00
13.00	2.92	1.19	0.19	65.00	3.84	1.91	0.00
14.00	3.14	1.36	0.09	66.00	3.84	1.91	0.00
15.00	3.28	1.46	0.06	67.00	3.84	1.91	0.00
16.00	3.38	1.54	0.05	68.00	3.84	1.91	0.00
17.00	3.47	1.61	0.04	69.00	3.84	1.91	0.00
18.00	3.54	1.66	0.03	70.00	3.84	1.91	0.00
19.00	3.60	1.71	0.03	71.00	3.84	1.91	0.00
20.00	3.65	1.76	0.03	72.00	3.84	1.91	0.00
21.00	3.70	1.80	0.03				
22.00	3.75	1.84	0.03				
23.00	3.80	1.88	0.02				
24.00	3.84	1.91	0.02				
25.00	3.84	1.91	0.00				
26.00	3.84	1.91	0.00				
27.00	3.84	1.91	0.00				
28.00	3.84	1.91	0.00				
29.00	3.84	1.91	0.00				
30.00	3.84	1.91	0.00				
31.00	3.84	1.91	0.00				
32.00	3.84	1.91	0.00				
33.00	3.84	1.91	0.00				
34.00	3.84	1.91	0.00				
35.00	3.84	1.91	0.00				
36.00	3.84	1.91	0.00				
37.00	3.84	1.91	0.00				
38.00	3.84	1.91	0.00				
39.00	3.84	1.91	0.00				
40.00	3.84	1.91	0.00				
41.00	3.84	1.91	0.00				
42.00	3.84	1.91	0.00				
43.00	3.84	1.91	0.00				
44.00	3.84	1.91	0.00				
45.00	3.84	1.91	0.00				
46.00	3.84	1.91	0.00				
47.00	3.84	1.91	0.00				
48.00	3.84	1.91	0.00				
49.00	3.84	1.91	0.00				
50.00	3.84	1.91	0.00				
51.00	3.84	1.91	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 3.19 cfs @ 12.07 hrs, Volume= 0.213 af, Depth= 3.61"
Routed to Pond 45P : Pervious Pavement

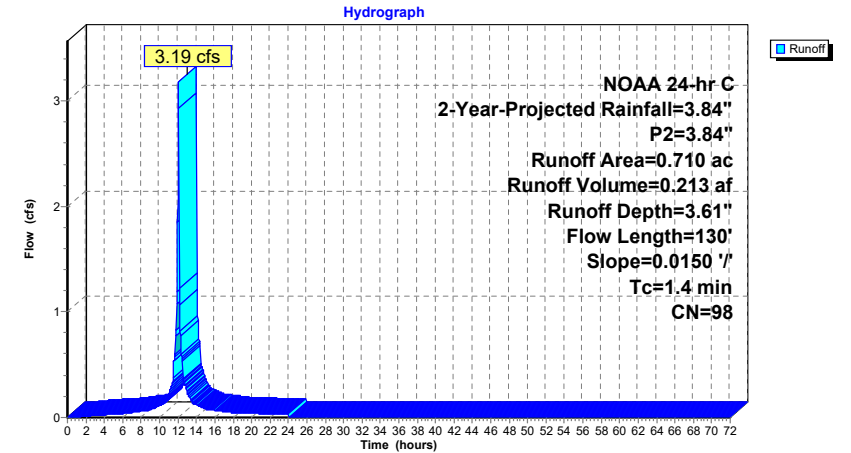
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0150	1.34		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	130				Total



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00
2.00	0.09	0.01	0.01
3.00	0.14	0.03	0.02
4.00	0.19	0.06	0.03
5.00	0.24	0.10	0.03
6.00	0.30	0.15	0.04
7.00	0.37	0.21	0.05
8.00	0.46	0.28	0.06
9.00	0.56	0.37	0.07
10.00	0.70	0.50	0.11
11.00	0.92	0.72	0.21
12.00	1.83	1.61	2.06
13.00	2.92	2.69	0.24
14.00	3.14	2.91	0.12
15.00	3.28	3.05	0.08
16.00	3.38	3.15	0.07
17.00	3.47	3.23	0.06
18.00	3.54	3.30	0.05
19.00	3.60	3.36	0.04
20.00	3.65	3.42	0.04
21.00	3.70	3.47	0.04
22.00	3.75	3.52	0.03
23.00	3.80	3.56	0.03
24.00	3.84	3.61	0.03
25.00	3.84	3.61	0.00
26.00	3.84	3.61	0.00
27.00	3.84	3.61	0.00
28.00	3.84	3.61	0.00
29.00	3.84	3.61	0.00
30.00	3.84	3.61	0.00
31.00	3.84	3.61	0.00
32.00	3.84	3.61	0.00
33.00	3.84	3.61	0.00
34.00	3.84	3.61	0.00
35.00	3.84	3.61	0.00
36.00	3.84	3.61	0.00
37.00	3.84	3.61	0.00
38.00	3.84	3.61	0.00
39.00	3.84	3.61	0.00
40.00	3.84	3.61	0.00
41.00	3.84	3.61	0.00
42.00	3.84	3.61	0.00
43.00	3.84	3.61	0.00
44.00	3.84	3.61	0.00
45.00	3.84	3.61	0.00
46.00	3.84	3.61	0.00
47.00	3.84	3.61	0.00
48.00	3.84	3.61	0.00
49.00	3.84	3.61	0.00
50.00	3.84	3.61	0.00
51.00	3.84	3.61	0.00

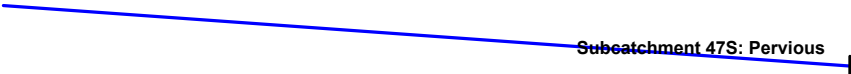
Summary for Subcatchment 47S: Pervious

Runoff = 0.22 cfs @ 12.14 hrs, Volume= 0.014 af, Depth= 1.91"
Routed to Pond 45P : Pervious Pavement

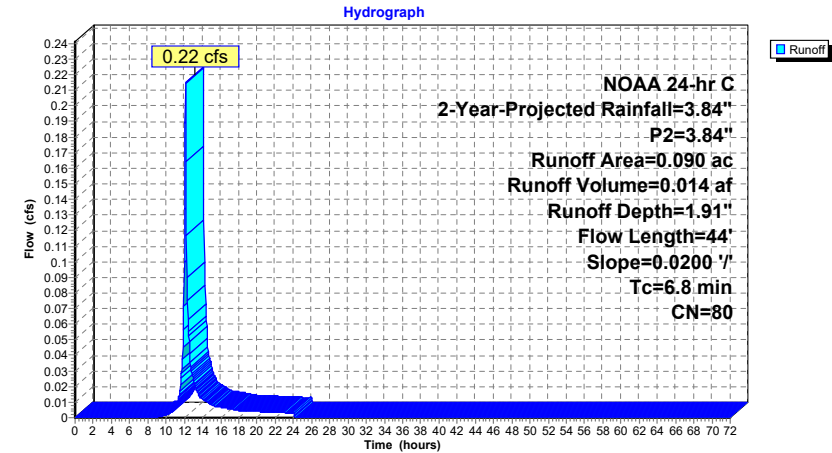
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	44	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	3.84	1.91	0.00
1.00	0.04	0.00	0.00	53.00	3.84	1.91	0.00
2.00	0.09	0.00	0.00	54.00	3.84	1.91	0.00
3.00	0.14	0.00	0.00	55.00	3.84	1.91	0.00
4.00	0.19	0.00	0.00	56.00	3.84	1.91	0.00
5.00	0.24	0.00	0.00	57.00	3.84	1.91	0.00
6.00	0.30	0.00	0.00	58.00	3.84	1.91	0.00
7.00	0.37	0.00	0.00	59.00	3.84	1.91	0.00
8.00	0.46	0.00	0.00	60.00	3.84	1.91	0.00
9.00	0.56	0.00	0.00	61.00	3.84	1.91	0.00
10.00	0.70	0.01	0.00	62.00	3.84	1.91	0.00
11.00	0.92	0.06	0.01	63.00	3.84	1.91	0.00
12.00	1.83	0.46	0.10	64.00	3.84	1.91	0.00
13.00	2.92	1.19	0.02	65.00	3.84	1.91	0.00
14.00	3.14	1.36	0.01	66.00	3.84	1.91	0.00
15.00	3.28	1.46	0.01	67.00	3.84	1.91	0.00
16.00	3.38	1.54	0.01	68.00	3.84	1.91	0.00
17.00	3.47	1.61	0.01	69.00	3.84	1.91	0.00
18.00	3.54	1.66	0.00	70.00	3.84	1.91	0.00
19.00	3.60	1.71	0.00	71.00	3.84	1.91	0.00
20.00	3.65	1.76	0.00	72.00	3.84	1.91	0.00
21.00	3.70	1.80	0.00				
22.00	3.75	1.84	0.00				
23.00	3.80	1.88	0.00				
24.00	3.84	1.91	0.00				
25.00	3.84	1.91	0.00				
26.00	3.84	1.91	0.00				
27.00	3.84	1.91	0.00				
28.00	3.84	1.91	0.00				
29.00	3.84	1.91	0.00				
30.00	3.84	1.91	0.00				
31.00	3.84	1.91	0.00				
32.00	3.84	1.91	0.00				
33.00	3.84	1.91	0.00				
34.00	3.84	1.91	0.00				
35.00	3.84	1.91	0.00				
36.00	3.84	1.91	0.00				
37.00	3.84	1.91	0.00				
38.00	3.84	1.91	0.00				
39.00	3.84	1.91	0.00				
40.00	3.84	1.91	0.00				
41.00	3.84	1.91	0.00				
42.00	3.84	1.91	0.00				
43.00	3.84	1.91	0.00				
44.00	3.84	1.91	0.00				
45.00	3.84	1.91	0.00				
46.00	3.84	1.91	0.00				
47.00	3.84	1.91	0.00				
48.00	3.84	1.91	0.00				
49.00	3.84	1.91	0.00				
50.00	3.84	1.91	0.00				
51.00	3.84	1.91	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 3.61"
Routed to Link 44L : DA Undetained

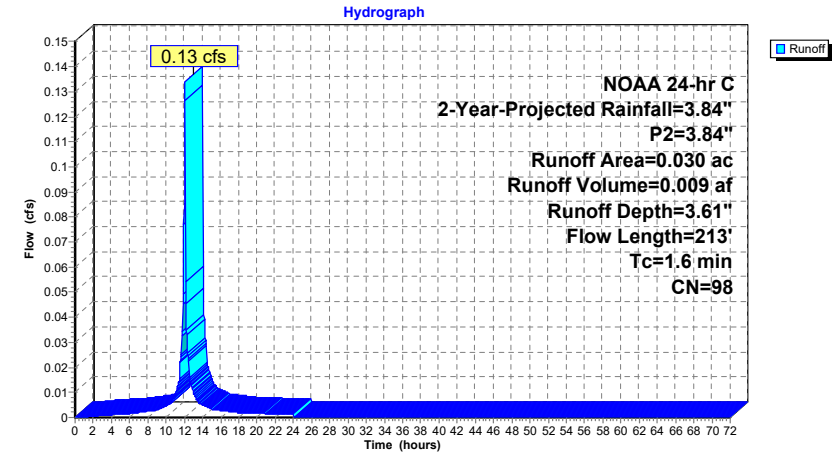
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.74		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00
2.00	0.09	0.01	0.00
3.00	0.14	0.03	0.00
4.00	0.19	0.06	0.00
5.00	0.24	0.10	0.00
6.00	0.30	0.15	0.00
7.00	0.37	0.21	0.00
8.00	0.46	0.28	0.00
9.00	0.56	0.37	0.00
10.00	0.70	0.50	0.00
11.00	0.92	0.72	0.01
12.00	1.83	1.61	0.09
13.00	2.92	2.69	0.01
14.00	3.14	2.91	0.01
15.00	3.28	3.05	0.00
16.00	3.38	3.15	0.00
17.00	3.47	3.23	0.00
18.00	3.54	3.30	0.00
19.00	3.60	3.36	0.00
20.00	3.65	3.42	0.00
21.00	3.70	3.47	0.00
22.00	3.75	3.52	0.00
23.00	3.80	3.56	0.00
24.00	3.84	3.61	0.00
25.00	3.84	3.61	0.00
26.00	3.84	3.61	0.00
27.00	3.84	3.61	0.00
28.00	3.84	3.61	0.00
29.00	3.84	3.61	0.00
30.00	3.84	3.61	0.00
31.00	3.84	3.61	0.00
32.00	3.84	3.61	0.00
33.00	3.84	3.61	0.00
34.00	3.84	3.61	0.00
35.00	3.84	3.61	0.00
36.00	3.84	3.61	0.00
37.00	3.84	3.61	0.00
38.00	3.84	3.61	0.00
39.00	3.84	3.61	0.00
40.00	3.84	3.61	0.00
41.00	3.84	3.61	0.00
42.00	3.84	3.61	0.00
43.00	3.84	3.61	0.00
44.00	3.84	3.61	0.00
45.00	3.84	3.61	0.00
46.00	3.84	3.61	0.00
47.00	3.84	3.61	0.00
48.00	3.84	3.61	0.00
49.00	3.84	3.61	0.00
50.00	3.84	3.61	0.00
51.00	3.84	3.61	0.00

Summary for Subcatchment 49S: Pervious

Runoff = 0.36 cfs @ 12.17 hrs, Volume= 0.027 af, Depth= 1.91"
Routed to Link 44L : DA Undetained

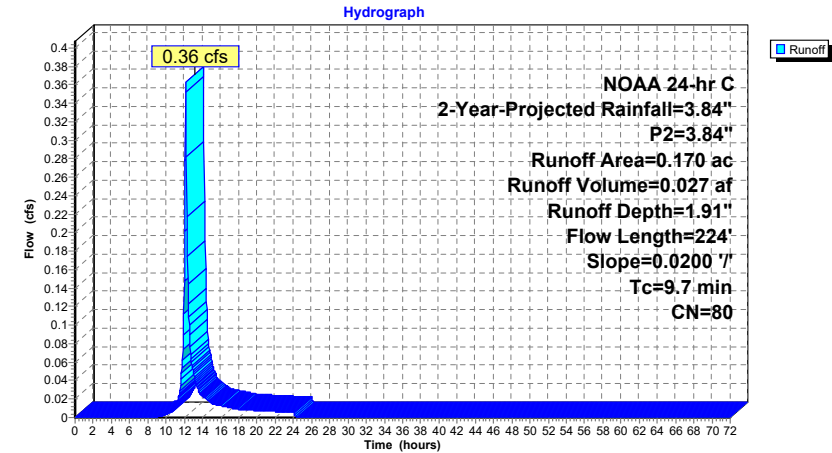
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 2-Year-Projected Rainfall=3.84", P2=3.84"

Area (ac)	CN	Description			
0.170	80	>75% Grass cover, Good, HSG D			
0.170		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	59	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
9.7	224	Total			



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.04	0.00	0.00
2.00	0.09	0.00	0.00
3.00	0.14	0.00	0.00
4.00	0.19	0.00	0.00
5.00	0.24	0.00	0.00
6.00	0.30	0.00	0.00
7.00	0.37	0.00	0.00
8.00	0.46	0.00	0.00
9.00	0.56	0.00	0.00
10.00	0.70	0.01	0.00
11.00	0.92	0.06	0.01
12.00	1.83	0.46	0.15
13.00	2.92	1.19	0.05
14.00	3.14	1.36	0.02
15.00	3.28	1.46	0.02
16.00	3.38	1.54	0.01
17.00	3.47	1.61	0.01
18.00	3.54	1.66	0.01
19.00	3.60	1.71	0.01
20.00	3.65	1.76	0.01
21.00	3.70	1.80	0.01
22.00	3.75	1.84	0.01
23.00	3.80	1.88	0.01
24.00	3.84	1.91	0.01
25.00	3.84	1.91	0.00
26.00	3.84	1.91	0.00
27.00	3.84	1.91	0.00
28.00	3.84	1.91	0.00
29.00	3.84	1.91	0.00
30.00	3.84	1.91	0.00
31.00	3.84	1.91	0.00
32.00	3.84	1.91	0.00
33.00	3.84	1.91	0.00
34.00	3.84	1.91	0.00
35.00	3.84	1.91	0.00
36.00	3.84	1.91	0.00
37.00	3.84	1.91	0.00
38.00	3.84	1.91	0.00
39.00	3.84	1.91	0.00
40.00	3.84	1.91	0.00
41.00	3.84	1.91	0.00
42.00	3.84	1.91	0.00
43.00	3.84	1.91	0.00
44.00	3.84	1.91	0.00
45.00	3.84	1.91	0.00
46.00	3.84	1.91	0.00
47.00	3.84	1.91	0.00
48.00	3.84	1.91	0.00
49.00	3.84	1.91	0.00
50.00	3.84	1.91	0.00
51.00	3.84	1.91	0.00

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 2.57" for 2-Year-Projected event
Inflow = 2.96 cfs @ 12.11 hrs, Volume= 0.236 af
Outflow = 0.92 cfs @ 12.41 hrs, Volume= 0.183 af, Atten= 69%, Lag= 18.1 min
Primary = 0.92 cfs @ 12.41 hrs, Volume= 0.183 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 135.33' @ 12.41 hrs Surf.Area= 2,752 sf Storage= 4,771 cf

Plug-Flow detention time= 204.8 min calculated for 0.183 af (78% of inflow)
Center-of-Mass det. time= 116.9 min (908.7 - 791.8)

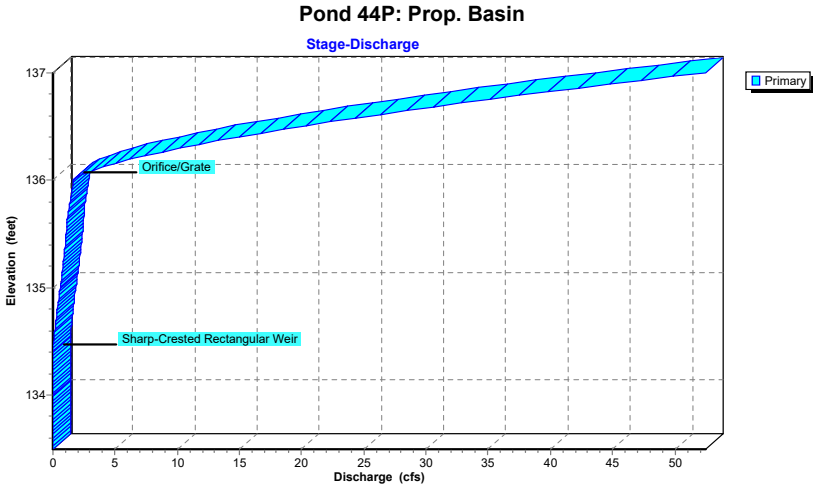
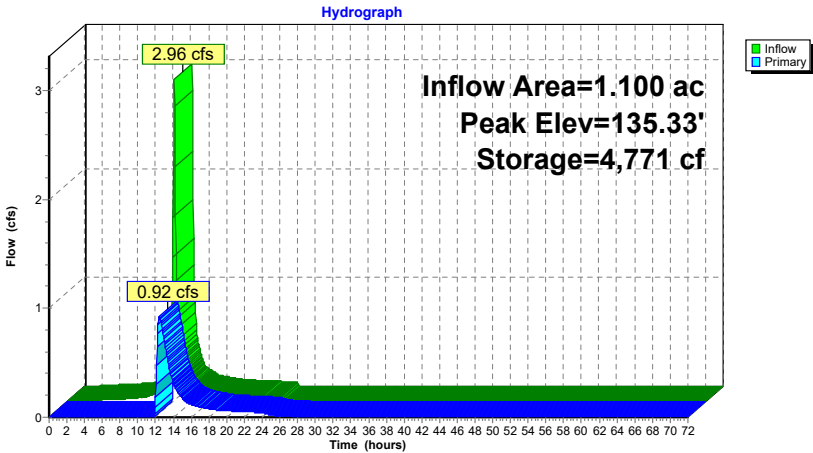
Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

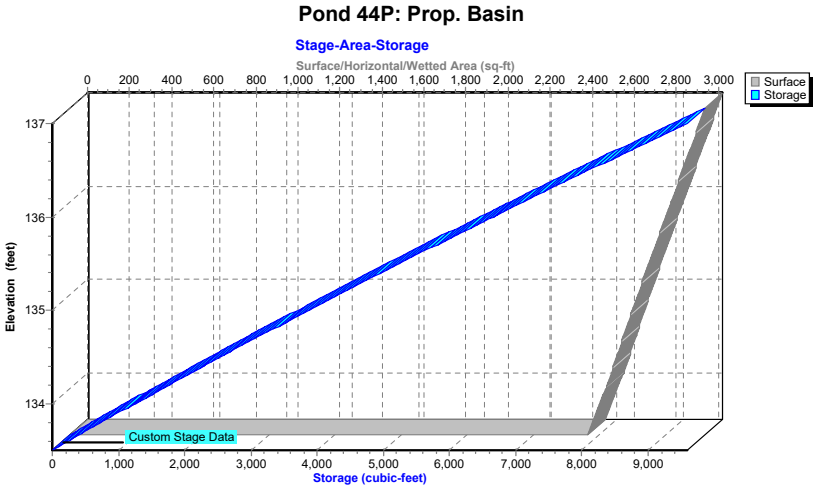
Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.92 cfs @ 12.41 hrs HW=135.33' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 0.92 cfs @ 3.15 fps)
2=Orifice/Grate (Controls 0.00 cfs)



Pond 44P: Prop. Basin





Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.01	26	133.51	0.00
5.00	0.02	155	133.56	0.00
7.50	0.03	372	133.65	0.00
10.00	0.08	800	133.82	0.00
12.50	0.77	4,744	135.32	0.91
15.00	0.11	2,917	134.64	0.17
17.50	0.07	2,661	134.54	0.08
20.00	0.05	2,576	134.51	0.06
22.50	0.04	2,539	134.50	0.05
25.00	0.00	2,425	134.45	0.02
27.50	0.00	2,332	134.42	0.00
30.00	0.00	2,308	134.41	0.00
32.50	0.00	2,298	134.41	0.00
35.00	0.00	2,292	134.40	0.00
37.50	0.00	2,289	134.40	0.00
40.00	0.00	2,287	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,285	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

Inflow Area = 0.800 ac, 88.75% Impervious, Inflow Depth = 3.41" for 2-Year-Projected event
Inflow = 3.34 cfs @ 12.07 hrs, Volume= 0.228 af
Outflow = 0.26 cfs @ 13.02 hrs, Volume= 0.206 af, Atten= 92%, Lag= 57.0 min
Primary = 0.26 cfs @ 13.02 hrs, Volume= 0.206 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 133.65' @ 13.02 hrs Surf.Area= 9,150 sf Storage= 5,874 cf
Plug-Flow detention time= 360.1 min calculated for 0.206 af (91% of inflow)
Center-of-Mass det. time= 310.2 min (1,065.2 - 755.0)

Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below 41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1 L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1 L= 502.0'
		16,662 cf	Total Available Storage

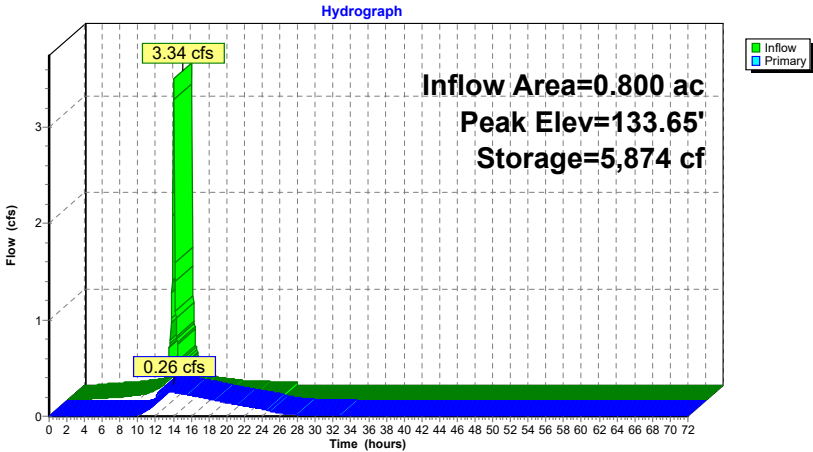
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175

Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)

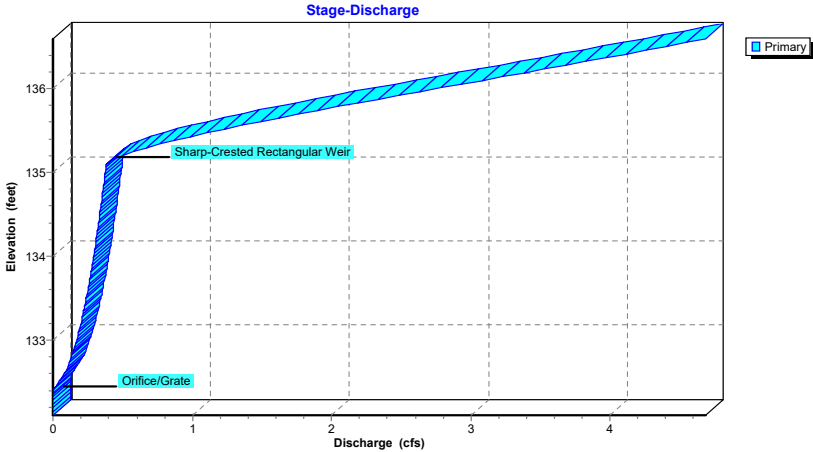
Primary OutFlow Max=0.26 cfs @ 13.02 hrs HW=133.65' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.26 cfs @ 5.22 fps)
2=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)



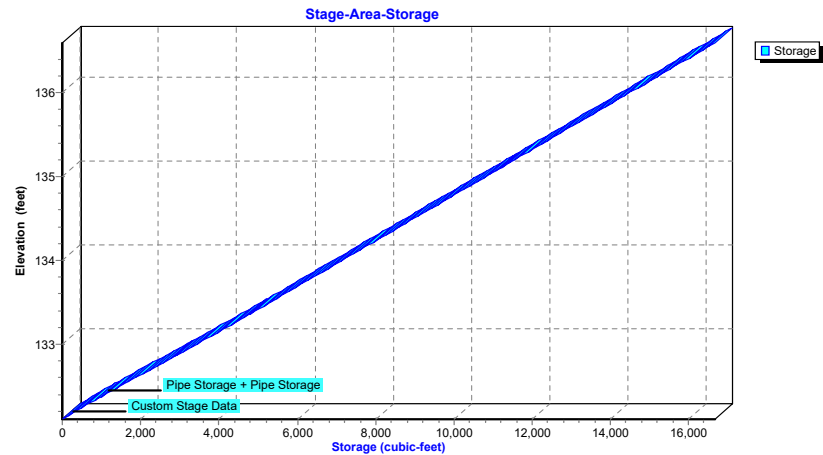
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.02	45	132.11	0.00
5.00	0.03	259	132.17	0.00
7.50	0.05	621	132.27	0.00
10.00	0.11	1,268	132.44	0.02
12.50	0.58	5,698	133.60	0.25
15.00	0.09	5,128	133.45	0.23
17.50	0.06	3,864	133.11	0.19
20.00	0.04	2,806	132.83	0.14
22.50	0.04	2,081	132.65	0.10
25.00	0.00	1,573	132.52	0.05
27.50	0.00	1,288	132.45	0.02
30.00	0.00	1,165	132.42	0.01
32.50	0.00	1,099	132.40	0.01
35.00	0.00	1,055	132.39	0.00
37.50	0.00	1,026	132.38	0.00
40.00	0.00	1,007	132.37	0.00
42.50	0.00	995	132.37	0.00
45.00	0.00	986	132.37	0.00
47.50	0.00	979	132.37	0.00
50.00	0.00	973	132.37	0.00
52.50	0.00	967	132.36	0.00
55.00	0.00	961	132.36	0.00
57.50	0.00	957	132.36	0.00
60.00	0.00	953	132.36	0.00
62.50	0.00	949	132.36	0.00
65.00	0.00	945	132.36	0.00
67.50	0.00	942	132.36	0.00
70.00	0.00	939	132.36	0.00

Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

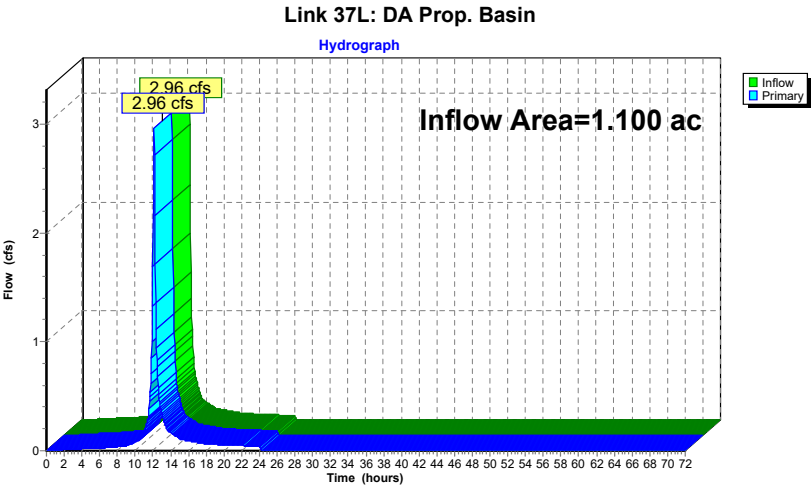
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 2.57" for 2-Year-Projected event
Inflow = 2.96 cfs @ 12.11 hrs, Volume= 0.236 af
Primary = 2.96 cfs @ 12.11 hrs, Volume= 0.236 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



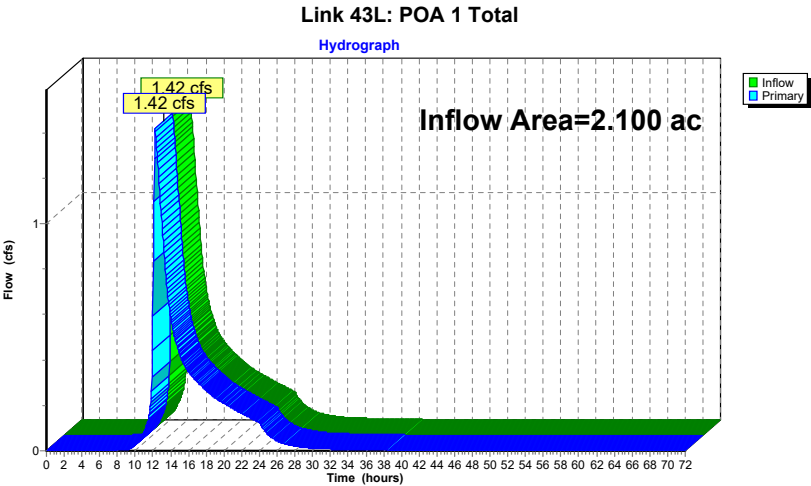
Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01	54.00	0.00	0.00	0.00
3.00	0.01	0.00	0.01	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.02	0.00	0.02	57.00	0.00	0.00	0.00
6.00	0.02	0.00	0.02	58.00	0.00	0.00	0.00
7.00	0.03	0.00	0.03	59.00	0.00	0.00	0.00
8.00	0.04	0.00	0.04	60.00	0.00	0.00	0.00
9.00	0.05	0.00	0.05	61.00	0.00	0.00	0.00
10.00	0.08	0.00	0.08	62.00	0.00	0.00	0.00
11.00	0.17	0.00	0.17	63.00	0.00	0.00	0.00
12.00	1.69	0.00	1.69	64.00	0.00	0.00	0.00
13.00	0.34	0.00	0.34	65.00	0.00	0.00	0.00
14.00	0.17	0.00	0.17	66.00	0.00	0.00	0.00
15.00	0.11	0.00	0.11	67.00	0.00	0.00	0.00
16.00	0.09	0.00	0.09	68.00	0.00	0.00	0.00
17.00	0.08	0.00	0.08	69.00	0.00	0.00	0.00
18.00	0.06	0.00	0.06	70.00	0.00	0.00	0.00
19.00	0.06	0.00	0.06	71.00	0.00	0.00	0.00
20.00	0.05	0.00	0.05	72.00	0.00	0.00	0.00
21.00	0.05	0.00	0.05				
22.00	0.05	0.00	0.05				
23.00	0.04	0.00	0.04				
24.00	0.04	0.00	0.04				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth > 2.43" for 2-Year-Projected event
Inflow = 1.42 cfs @ 12.22 hrs, Volume= 0.426 af
Primary = 1.42 cfs @ 12.22 hrs, Volume= 0.426 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



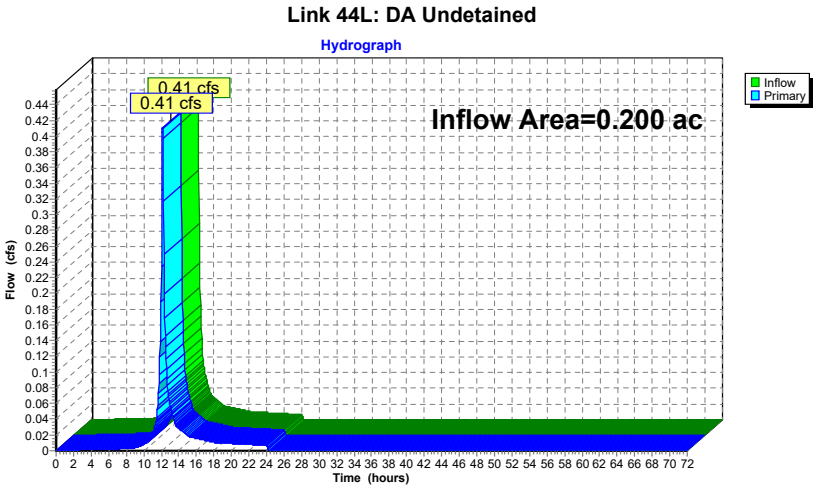
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.03	0.00	0.03	62.00	0.00	0.00	0.00
11.00	0.08	0.00	0.08	63.00	0.00	0.00	0.00
12.00	0.59	0.00	0.59	64.00	0.00	0.00	0.00
13.00	1.01	0.00	1.01	65.00	0.00	0.00	0.00
14.00	0.59	0.00	0.59	66.00	0.00	0.00	0.00
15.00	0.43	0.00	0.43	67.00	0.00	0.00	0.00
16.00	0.35	0.00	0.35	68.00	0.00	0.00	0.00
17.00	0.30	0.00	0.30	69.00	0.00	0.00	0.00
18.00	0.27	0.00	0.27	70.00	0.00	0.00	0.00
19.00	0.23	0.00	0.23	71.00	0.00	0.00	0.00
20.00	0.21	0.00	0.21	72.00	0.00	0.00	0.00
21.00	0.19	0.00	0.19				
22.00	0.16	0.00	0.16				
23.00	0.14	0.00	0.14				
24.00	0.12	0.00	0.12				
25.00	0.07	0.00	0.07				
26.00	0.04	0.00	0.04				
27.00	0.03	0.00	0.03				
28.00	0.02	0.00	0.02				
29.00	0.01	0.00	0.01				
30.00	0.01	0.00	0.01				
31.00	0.01	0.00	0.01				
32.00	0.01	0.00	0.01				
33.00	0.01	0.00	0.01				
34.00	0.01	0.00	0.01				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 2.16" for 2-Year-Projected event
Inflow = 0.41 cfs @ 12.14 hrs, Volume= 0.036 af
Primary = 0.41 cfs @ 12.14 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.02	0.00	0.02	63.00	0.00	0.00	0.00
12.00	0.23	0.00	0.23	64.00	0.00	0.00	0.00
13.00	0.06	0.00	0.06	65.00	0.00	0.00	0.00
14.00	0.03	0.00	0.03	66.00	0.00	0.00	0.00
15.00	0.02	0.00	0.02	67.00	0.00	0.00	0.00
16.00	0.02	0.00	0.02	68.00	0.00	0.00	0.00
17.00	0.01	0.00	0.01	69.00	0.00	0.00	0.00
18.00	0.01	0.00	0.01	70.00	0.00	0.00	0.00
19.00	0.01	0.00	0.01	71.00	0.00	0.00	0.00
20.00	0.01	0.00	0.01	72.00	0.00	0.00	0.00
21.00	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=4.87" Flow Length=469' Tc=3.7 min CN=98 Runoff=2.47 cfs 0.175 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=2.99" Flow Length=398' Tc=10.5 min CN=80 Runoff=2.17 cfs 0.167 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=4.87" Flow Length=130' Slope=0.0150 '/' Tc=1.5 min CN=98 Runoff=4.25 cfs 0.288 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=2.99" Flow Length=44' Slope=0.0200 '/' Tc=7.2 min CN=80 Runoff=0.33 cfs 0.022 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=4.87" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.18 cfs 0.012 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=2.99" Flow Length=224' Slope=0.0200 '/' Tc=10.4 min CN=80 Runoff=0.55 cfs 0.042 af
Pond 44P: Prop. Basin	Peak Elev=135.90' Storage=6,366 cf Inflow=4.16 cfs 0.342 af Outflow=1.50 cfs 0.289 af
Pond 45P: Pervious Pavement	Peak Elev=134.22' Storage=7,937 cf Inflow=4.49 cfs 0.311 af Outflow=0.31 cfs 0.289 af
Link 37L: DA Prop. Basin	Inflow=4.16 cfs 0.342 af Primary=4.16 cfs 0.342 af
Link 43L: POA 1 Total	Inflow=2.16 cfs 0.633 af Primary=2.16 cfs 0.633 af
Link 44L: DA Undetained	Inflow=0.62 cfs 0.055 af Primary=0.62 cfs 0.055 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.707 af Average Runoff Depth = 4.04"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.47 cfs @ 12.10 hrs, Volume= 0.175 af, Depth= 4.87"
Routed to Link 37L : DA Prop. Basin

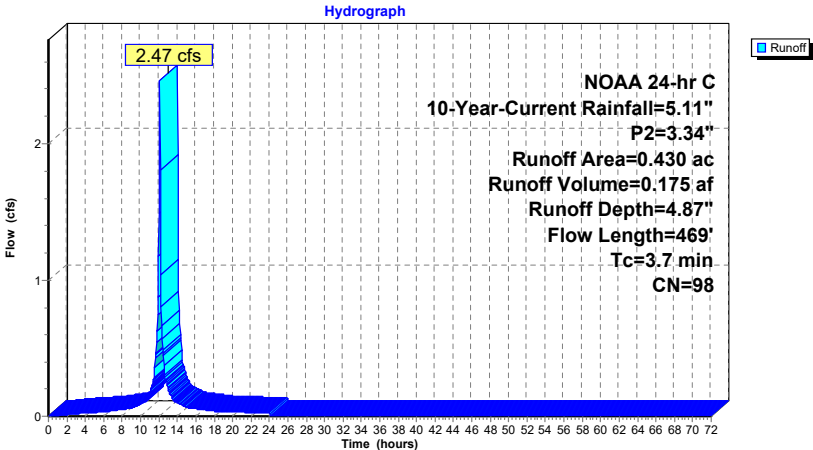
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.7	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.01	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.02	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.02	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.03	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.03	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.04	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.05	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.06	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.09	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.17	63.00	5.11	4.87	0.00
12.00	2.44	2.21	1.49	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.20	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.10	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.07	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.05	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.05	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.04	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.03	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.03	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.03				
22.00	4.99	4.76	0.03				
23.00	5.05	4.82	0.02				
24.00	5.11	4.87	0.03				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 2.17 cfs @ 12.18 hrs, Volume= 0.167 af, Depth= 2.99"
Routed to Link 37L : DA Prop. Basin

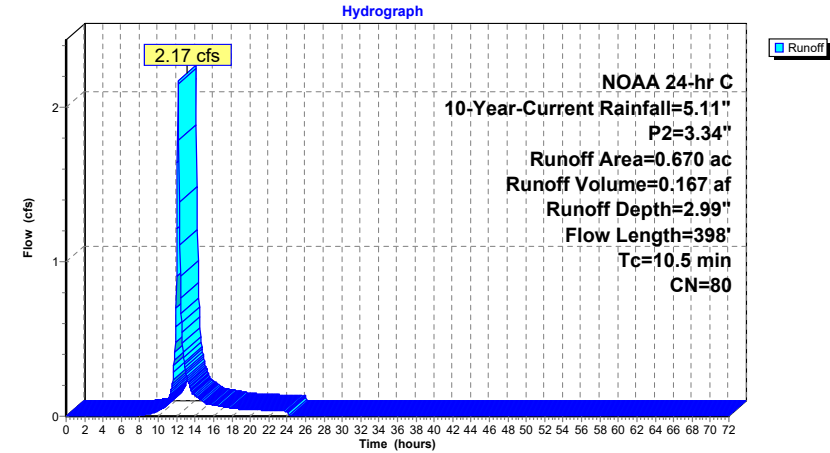
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description			
0.670	80	>75% Grass cover, Good, HSG D			
0.670		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	72	0.0300	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		
1.1	278	0.0050	4.03	4.95	Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
					Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
10.5	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.01	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.01	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.04	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.09	63.00	5.11	2.99	0.00
12.00	2.44	0.84	0.91	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.29	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.13	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.09	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.07	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.06	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.05	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.05	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.04	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.04				
22.00	4.99	2.89	0.04				
23.00	5.05	2.94	0.03				
24.00	5.11	2.99	0.03				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.25 cfs @ 12.07 hrs, Volume= 0.288 af, Depth= 4.87"
Routed to Pond 45P : Pervious Pavement

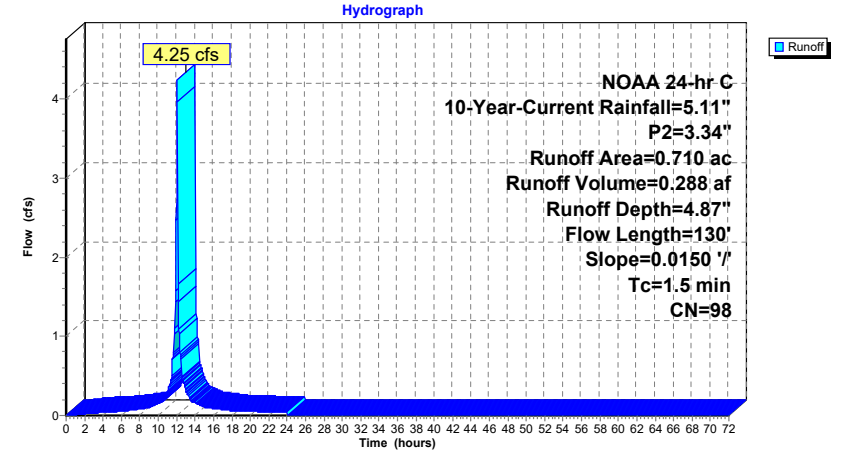
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0150	1.25		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.5	130	Total			



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.02	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.03	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.04	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.05	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.05	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.07	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.08	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.10	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.15	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.29	63.00	5.11	4.87	0.00
12.00	2.44	2.21	2.72	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.32	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.16	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.11	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.09	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.07	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.06	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.06	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.05	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.05				
22.00	4.99	4.76	0.04				
23.00	5.05	4.82	0.04				
24.00	5.11	4.87	0.04				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

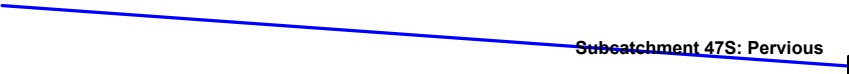
Summary for Subcatchment 47S: Pervious

Runoff = 0.33 cfs @ 12.14 hrs, Volume= 0.022 af, Depth= 2.99"
Routed to Pond 45P : Pervious Pavement

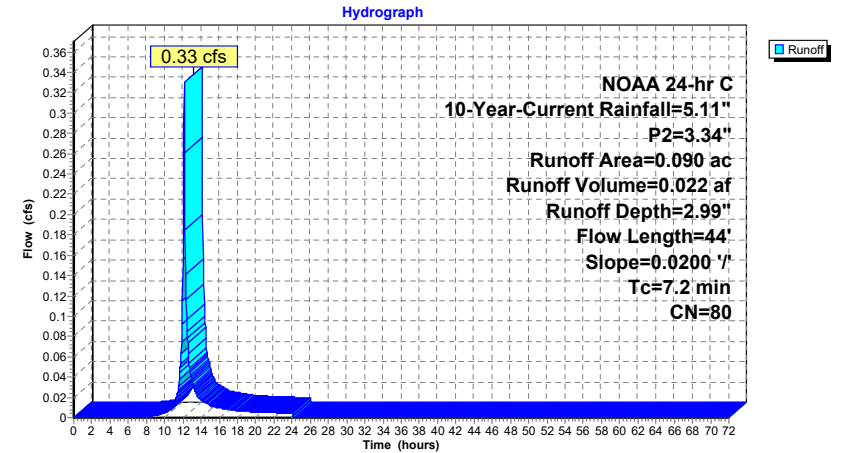
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	44	0.0200	0.10		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.00	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.00	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.01	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.01	63.00	5.11	2.99	0.00
12.00	2.44	0.84	0.16	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.04	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.02	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.01	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.01	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.01	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.01	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.01	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.01	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.01				
22.00	4.99	2.89	0.00				
23.00	5.05	2.94	0.00				
24.00	5.11	2.99	0.00				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.18 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 4.87"
Routed to Link 44L : DA Undetained

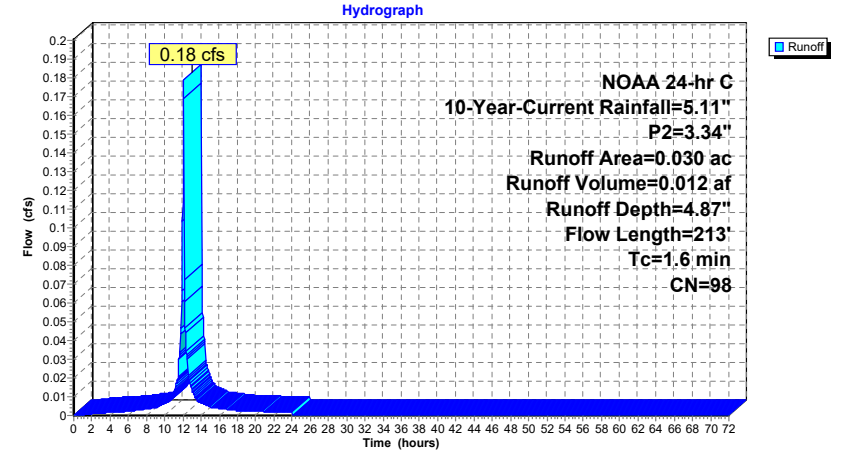
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.69		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.00	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.00	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.00	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.00	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.00	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.00	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.00	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.00	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.01	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.01	63.00	5.11	4.87	0.00
12.00	2.44	2.21	0.11	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.01	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.01	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.00	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.00	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.00	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.00	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.00	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.00	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.00				
22.00	4.99	4.76	0.00				
23.00	5.05	4.82	0.00				
24.00	5.11	4.87	0.00				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

Summary for Subcatchment 49S: Pervious

Runoff = 0.55 cfs @ 12.18 hrs, Volume= 0.042 af, Depth= 2.99"
Routed to Link 44L : DA Undetained

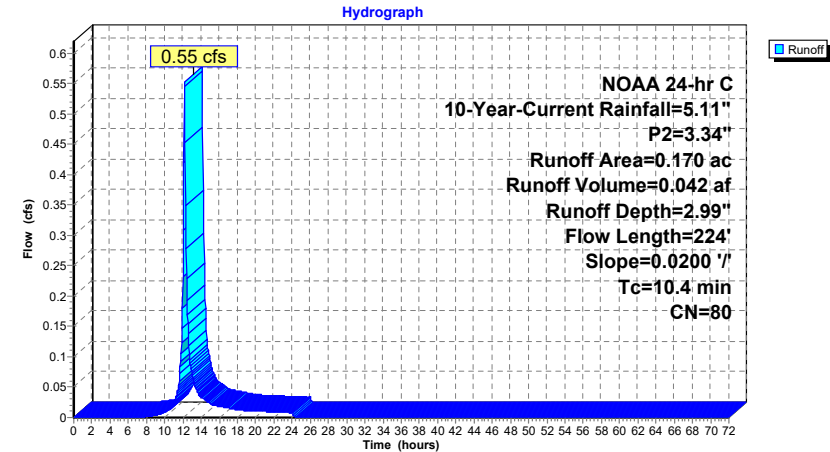
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	59	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
10.4	224	Total			



Subcatchment 49S: Pervious



2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.00	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.00	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.01	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.02	63.00	5.11	2.99	0.00
12.00	2.44	0.84	0.23	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.07	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.03	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.02	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.02	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.02	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.01	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.01	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.01	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.01				
22.00	4.99	2.89	0.01				
23.00	5.05	2.94	0.01				
24.00	5.11	2.99	0.01				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 3.73" for 10-Year-Current event
Inflow = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af
Outflow = 1.50 cfs @ 12.38 hrs, Volume= 0.289 af, Atten= 64%, Lag= 16.1 min
Primary = 1.50 cfs @ 12.38 hrs, Volume= 0.289 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 135.90' @ 12.38 hrs Surf.Area= 2,844 sf Storage= 6,366 cf

Plug-Flow detention time= 170.7 min calculated for 0.289 af (85% of inflow)
Center-of-Mass det. time= 101.7 min (888.0 - 786.3)

Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

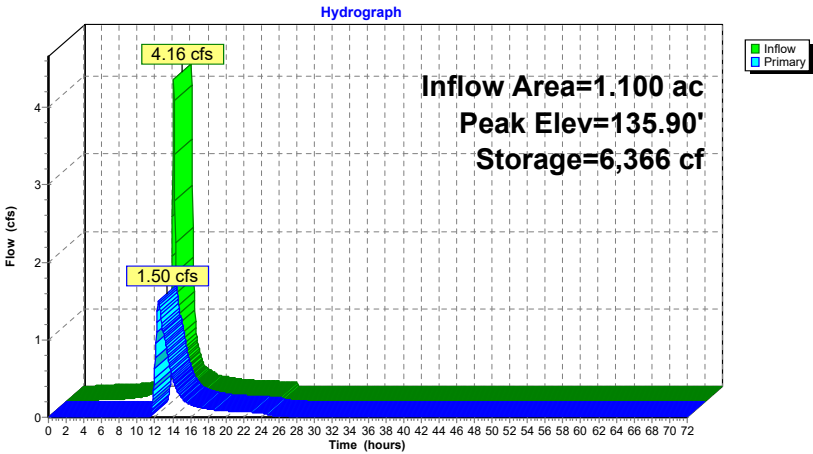
Primary OutFlow Max=1.50 cfs @ 12.38 hrs HW=135.90' (Free Discharge)

1=Sharp-Crested Rectangular Weir (Weir Controls 1.50 cfs @ 4.00 fps)

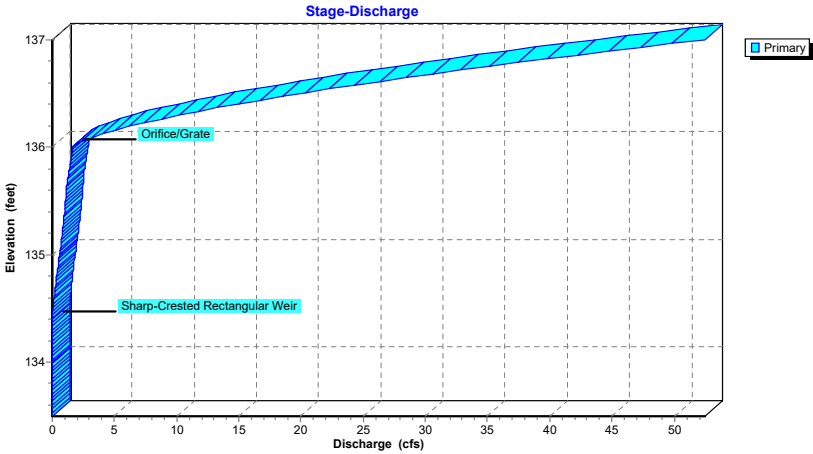
2=Orifice/Grate (Controls 0.00 cfs)



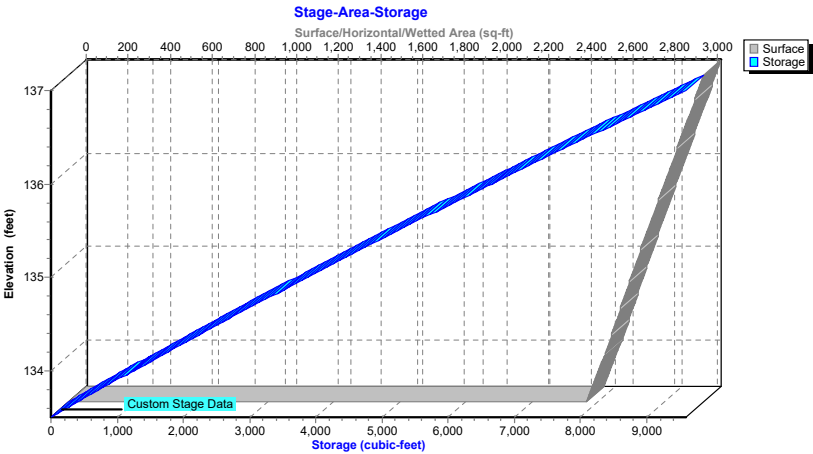
Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.02	54	133.52	0.00
5.00	0.03	253	133.60	0.00
7.50	0.05	563	133.73	0.00
10.00	0.13	1,245	134.00	0.00
12.50	1.11	6,277	135.87	1.45
15.00	0.16	3,114	134.72	0.25
17.50	0.10	2,756	134.58	0.12
20.00	0.07	2,649	134.54	0.08
22.50	0.06	2,603	134.52	0.07
25.00	0.00	2,453	134.46	0.03
27.50	0.00	2,338	134.42	0.01
30.00	0.00	2,310	134.41	0.00
32.50	0.00	2,299	134.41	0.00
35.00	0.00	2,293	134.40	0.00
37.50	0.00	2,289	134.40	0.00
40.00	0.00	2,287	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,285	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

2026-05 Proposed Hydrology

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Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

2026-05 Proposed Hydrology

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Summary for Pond 45P: Pervious Pavement

Inflow Area = 0.800 ac, 88.75% Impervious, Inflow Depth = 4.66" for 10-Year-Current event
Inflow = 4.49 cfs @ 12.07 hrs, Volume= 0.311 af
Outflow = 0.31 cfs @ 13.12 hrs, Volume= 0.289 af, Atten= 93%, Lag= 62.8 min
Primary = 0.31 cfs @ 13.12 hrs, Volume= 0.289 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 134.22' @ 13.12 hrs Surf.Area= 9,150 sf Storage= 7,937 cf

Plug-Flow detention time= 372.4 min calculated for 0.289 af (93% of inflow)
Center-of-Mass det. time= 333.0 min (1,083.1 - 750.1)

Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below 41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1 L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1 L= 502.0'
		16,662 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175

Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)

Primary OutFlow Max=0.31 cfs @ 13.12 hrs HW=134.22' (Free Discharge)

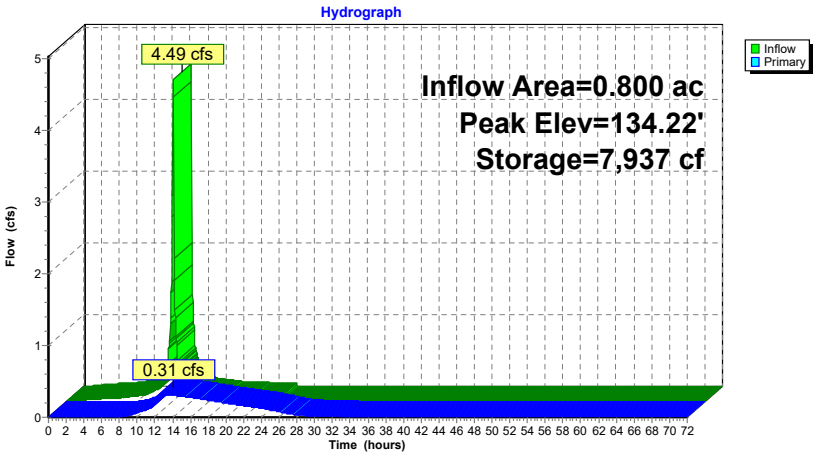
1=Orifice/Grate (Orifice Controls 0.31 cfs @ 6.35 fps)
2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 45P: Pervious Pavement

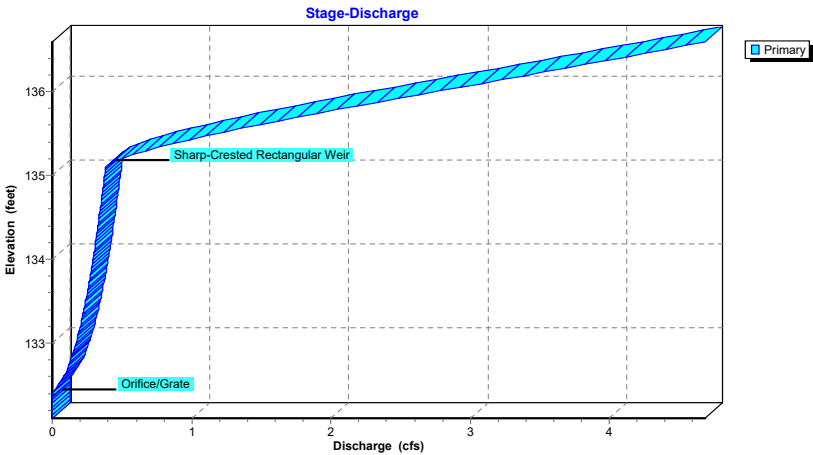
Sharp-Crested Rectangular Weir

Orifice/Grate

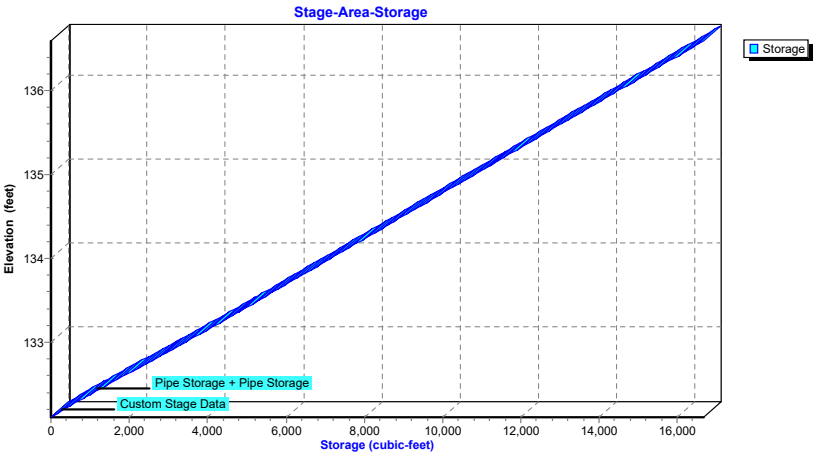
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



2026-05 Proposed Hydrology

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Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.03	92	132.13	0.00
5.00	0.05	422	132.22	0.00
7.50	0.07	937	132.36	0.00
10.00	0.16	1,667	132.54	0.06
12.50	0.79	7,628	134.13	0.30
15.00	0.12	7,131	134.00	0.29
17.50	0.07	5,556	133.57	0.25
20.00	0.06	4,125	133.18	0.20
22.50	0.05	3,022	132.89	0.15
25.00	0.00	2,112	132.66	0.10
27.50	0.00	1,490	132.50	0.04
30.00	0.00	1,255	132.44	0.02
32.50	0.00	1,149	132.41	0.01
35.00	0.00	1,088	132.40	0.01
37.50	0.00	1,048	132.39	0.00
40.00	0.00	1,022	132.38	0.00
42.50	0.00	1,004	132.37	0.00
45.00	0.00	993	132.37	0.00
47.50	0.00	985	132.37	0.00
50.00	0.00	978	132.37	0.00
52.50	0.00	971	132.37	0.00
55.00	0.00	966	132.36	0.00
57.50	0.00	960	132.36	0.00
60.00	0.00	956	132.36	0.00
62.50	0.00	952	132.36	0.00
65.00	0.00	948	132.36	0.00
67.50	0.00	945	132.36	0.00
70.00	0.00	942	132.36	0.00

2026-05 Proposed Hydrology

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Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

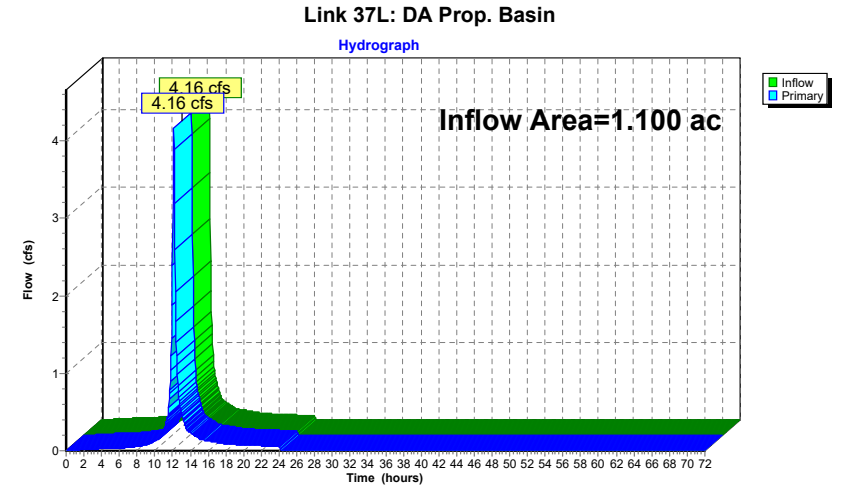
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 3.73" for 10-Year-Current event
Inflow = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af
Primary = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01	54.00	0.00	0.00	0.00
3.00	0.02	0.00	0.02	55.00	0.00	0.00	0.00
4.00	0.02	0.00	0.02	56.00	0.00	0.00	0.00
5.00	0.03	0.00	0.03	57.00	0.00	0.00	0.00
6.00	0.03	0.00	0.03	58.00	0.00	0.00	0.00
7.00	0.04	0.00	0.04	59.00	0.00	0.00	0.00
8.00	0.06	0.00	0.06	60.00	0.00	0.00	0.00
9.00	0.07	0.00	0.07	61.00	0.00	0.00	0.00
10.00	0.13	0.00	0.13	62.00	0.00	0.00	0.00
11.00	0.27	0.00	0.27	63.00	0.00	0.00	0.00
12.00	2.40	0.00	2.40	64.00	0.00	0.00	0.00
13.00	0.49	0.00	0.49	65.00	0.00	0.00	0.00
14.00	0.23	0.00	0.23	66.00	0.00	0.00	0.00
15.00	0.16	0.00	0.16	67.00	0.00	0.00	0.00
16.00	0.13	0.00	0.13	68.00	0.00	0.00	0.00
17.00	0.11	0.00	0.11	69.00	0.00	0.00	0.00
18.00	0.09	0.00	0.09	70.00	0.00	0.00	0.00
19.00	0.08	0.00	0.08	71.00	0.00	0.00	0.00
20.00	0.07	0.00	0.07	72.00	0.00	0.00	0.00
21.00	0.07	0.00	0.07				
22.00	0.06	0.00	0.06				
23.00	0.06	0.00	0.06				
24.00	0.06	0.00	0.06				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

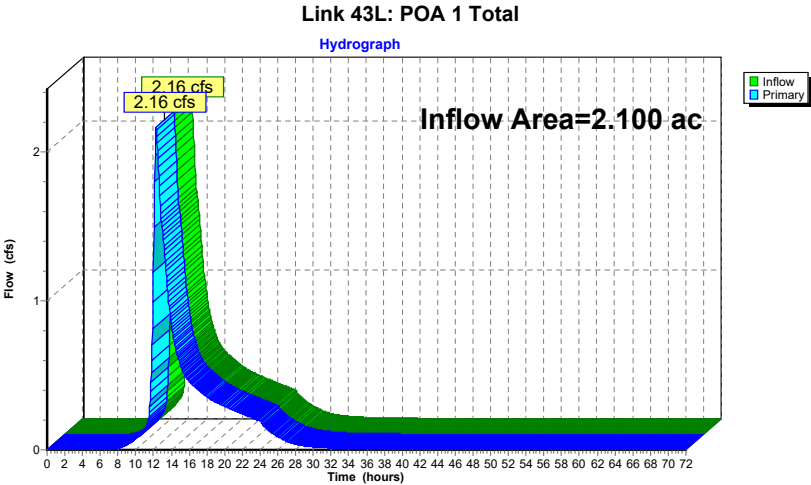
Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth > 3.62" for 10-Year-Current event

Inflow = 2.16 cfs @ 12.26 hrs, Volume= 0.633 af

Primary = 2.16 cfs @ 12.26 hrs, Volume= 0.633 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



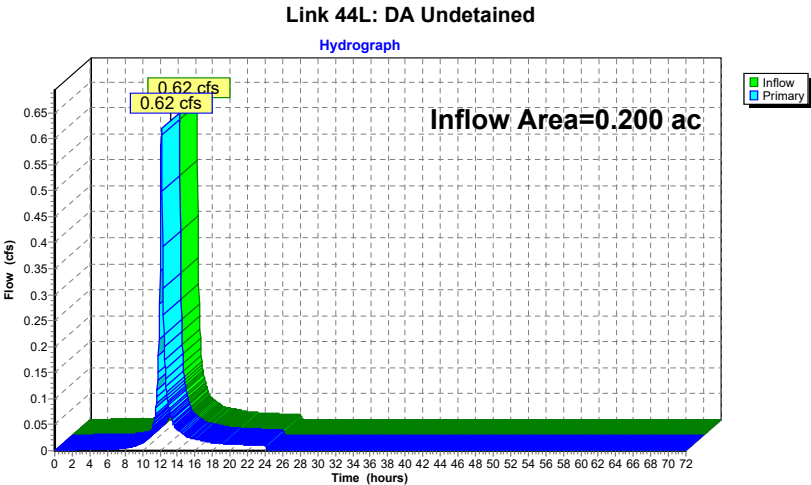
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.01	0.00	0.01	60.00	0.00	0.00	0.00
9.00	0.03	0.00	0.03	61.00	0.00	0.00	0.00
10.00	0.08	0.00	0.08	62.00	0.00	0.00	0.00
11.00	0.14	0.00	0.14	63.00	0.00	0.00	0.00
12.00	1.19	0.00	1.19	64.00	0.00	0.00	0.00
13.00	1.47	0.00	1.47	65.00	0.00	0.00	0.00
14.00	0.84	0.00	0.84	66.00	0.00	0.00	0.00
15.00	0.57	0.00	0.57	67.00	0.00	0.00	0.00
16.00	0.46	0.00	0.46	68.00	0.00	0.00	0.00
17.00	0.40	0.00	0.40	69.00	0.00	0.00	0.00
18.00	0.36	0.00	0.36	70.00	0.00	0.00	0.00
19.00	0.32	0.00	0.32	71.00	0.00	0.00	0.00
20.00	0.29	0.00	0.29	72.00	0.00	0.00	0.00
21.00	0.27	0.00	0.27				
22.00	0.24	0.00	0.24				
23.00	0.22	0.00	0.22				
24.00	0.20	0.00	0.20				
25.00	0.13	0.00	0.13				
26.00	0.09	0.00	0.09				
27.00	0.06	0.00	0.06				
28.00	0.04	0.00	0.04				
29.00	0.03	0.00	0.03				
30.00	0.02	0.00	0.02				
31.00	0.01	0.00	0.01				
32.00	0.01	0.00	0.01				
33.00	0.01	0.00	0.01				
34.00	0.01	0.00	0.01				
35.00	0.01	0.00	0.01				
36.00	0.01	0.00	0.01				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 3.27" for 10-Year-Current event
Inflow = 0.62 cfs @ 12.18 hrs, Volume= 0.055 af
Primary = 0.62 cfs @ 12.18 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

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Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.01	0.00	0.01	61.00	0.00	0.00	0.00
10.00	0.02	0.00	0.02	62.00	0.00	0.00	0.00
11.00	0.04	0.00	0.04	63.00	0.00	0.00	0.00
12.00	0.35	0.00	0.35	64.00	0.00	0.00	0.00
13.00	0.09	0.00	0.09	65.00	0.00	0.00	0.00
14.00	0.04	0.00	0.04	66.00	0.00	0.00	0.00
15.00	0.03	0.00	0.03	67.00	0.00	0.00	0.00
16.00	0.02	0.00	0.02	68.00	0.00	0.00	0.00
17.00	0.02	0.00	0.02	69.00	0.00	0.00	0.00
18.00	0.02	0.00	0.02	70.00	0.00	0.00	0.00
19.00	0.01	0.00	0.01	71.00	0.00	0.00	0.00
20.00	0.01	0.00	0.01	72.00	0.00	0.00	0.00
21.00	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

HydroCAD® 10.20-9a s/n 08640 © 2026 HydroCAD Software Solutions LLC

NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=5.62" Flow Length=469' Tc=3.6 min CN=98 Runoff=2.85 cfs 0.201 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=3.66" Flow Length=398' Tc=9.9 min CN=80 Runoff=2.71 cfs 0.204 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=5.62" Flow Length=130' Slope=0.0150 '/' Tc=1.4 min CN=98 Runoff=4.89 cfs 0.333 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=3.66" Flow Length=44' Slope=0.0200 '/' Tc=6.8 min CN=80 Runoff=0.41 cfs 0.027 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=5.62" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.21 cfs 0.014 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=3.66" Flow Length=224' Slope=0.0200 '/' Tc=9.7 min CN=80 Runoff=0.69 cfs 0.052 af
Pond 44P: Prop. Basin	Peak Elev=136.08' Storage=6,901 cf Inflow=5.01 cfs 0.406 af Outflow=2.98 cfs 0.353 af
Pond 45P: Pervious Pavement	Peak Elev=134.55' Storage=9,177 cf Inflow=5.18 cfs 0.360 af Outflow=0.34 cfs 0.338 af
Link 37L: DA Prop. Basin	Inflow=5.01 cfs 0.406 af Primary=5.01 cfs 0.406 af
Link 43L: POA 1 Total	Inflow=3.83 cfs 0.757 af Primary=3.83 cfs 0.757 af
Link 44L: DA Undetained	Inflow=0.76 cfs 0.066 af Primary=0.76 cfs 0.066 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.831 af Average Runoff Depth = 4.75"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

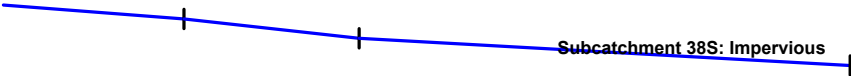
[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.85 cfs @ 12.09 hrs, Volume= 0.201 af, Depth= 5.62"
Routed to Link 37L : DA Prop. Basin

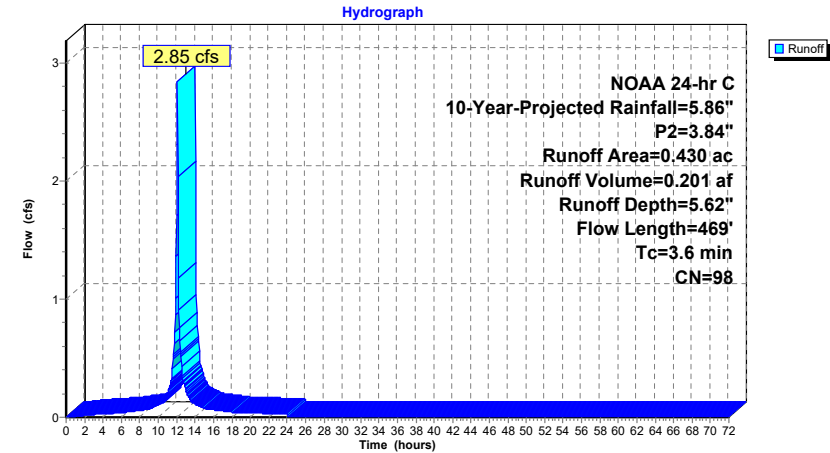
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.6	469				Total



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	5.62	0.00
1.00	0.06	0.00	0.00	53.00	5.86	5.62	0.00
2.00	0.13	0.03	0.02	54.00	5.86	5.62	0.00
3.00	0.21	0.07	0.02	55.00	5.86	5.62	0.00
4.00	0.29	0.13	0.03	56.00	5.86	5.62	0.00
5.00	0.37	0.21	0.03	57.00	5.86	5.62	0.00
6.00	0.46	0.29	0.04	58.00	5.86	5.62	0.00
7.00	0.57	0.38	0.05	59.00	5.86	5.62	0.00
8.00	0.70	0.51	0.06	60.00	5.86	5.62	0.00
9.00	0.86	0.65	0.07	61.00	5.86	5.62	0.00
10.00	1.07	0.86	0.11	62.00	5.86	5.62	0.00
11.00	1.41	1.19	0.20	63.00	5.86	5.62	0.00
12.00	2.79	2.56	1.72	64.00	5.86	5.62	0.00
13.00	4.45	4.22	0.23	65.00	5.86	5.62	0.00
14.00	4.79	4.56	0.11	66.00	5.86	5.62	0.00
15.00	5.00	4.77	0.08	67.00	5.86	5.62	0.00
16.00	5.16	4.92	0.06	68.00	5.86	5.62	0.00
17.00	5.29	5.05	0.05	69.00	5.86	5.62	0.00
18.00	5.40	5.16	0.04	70.00	5.86	5.62	0.00
19.00	5.49	5.25	0.04	71.00	5.86	5.62	0.00
20.00	5.57	5.34	0.04	72.00	5.86	5.62	0.00
21.00	5.65	5.42	0.03				
22.00	5.73	5.49	0.03				
23.00	5.80	5.56	0.03				
24.00	5.86	5.62	0.03				
25.00	5.86	5.62	0.00				
26.00	5.86	5.62	0.00				
27.00	5.86	5.62	0.00				
28.00	5.86	5.62	0.00				
29.00	5.86	5.62	0.00				
30.00	5.86	5.62	0.00				
31.00	5.86	5.62	0.00				
32.00	5.86	5.62	0.00				
33.00	5.86	5.62	0.00				
34.00	5.86	5.62	0.00				
35.00	5.86	5.62	0.00				
36.00	5.86	5.62	0.00				
37.00	5.86	5.62	0.00				
38.00	5.86	5.62	0.00				
39.00	5.86	5.62	0.00				
40.00	5.86	5.62	0.00				
41.00	5.86	5.62	0.00				
42.00	5.86	5.62	0.00				
43.00	5.86	5.62	0.00				
44.00	5.86	5.62	0.00				
45.00	5.86	5.62	0.00				
46.00	5.86	5.62	0.00				
47.00	5.86	5.62	0.00				
48.00	5.86	5.62	0.00				
49.00	5.86	5.62	0.00				
50.00	5.86	5.62	0.00				
51.00	5.86	5.62	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 2.71 cfs @ 12.17 hrs, Volume= 0.204 af, Depth= 3.66"
Routed to Link 37L : DA Prop. Basin

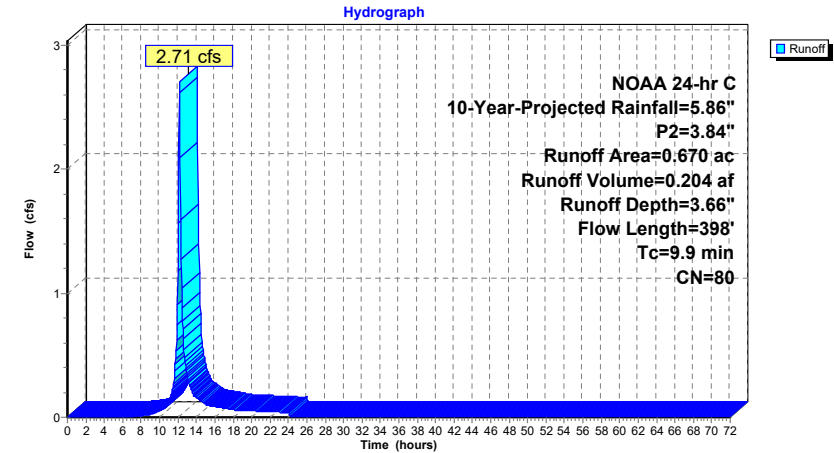
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.670	80	>75% Grass cover, Good, HSG D
0.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	72	0.0300	0.14		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	278	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.9	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	3.66	0.00
1.00	0.06	0.00	0.00	53.00	5.86	3.66	0.00
2.00	0.13	0.00	0.00	54.00	5.86	3.66	0.00
3.00	0.21	0.00	0.00	55.00	5.86	3.66	0.00
4.00	0.29	0.00	0.00	56.00	5.86	3.66	0.00
5.00	0.37	0.00	0.00	57.00	5.86	3.66	0.00
6.00	0.46	0.00	0.00	58.00	5.86	3.66	0.00
7.00	0.57	0.00	0.00	59.00	5.86	3.66	0.00
8.00	0.70	0.02	0.01	60.00	5.86	3.66	0.00
9.00	0.86	0.04	0.02	61.00	5.86	3.66	0.00
10.00	1.07	0.11	0.05	62.00	5.86	3.66	0.00
11.00	1.41	0.24	0.13	63.00	5.86	3.66	0.00
12.00	2.79	1.10	1.18	64.00	5.86	3.66	0.00
13.00	4.45	2.42	0.34	65.00	5.86	3.66	0.00
14.00	4.79	2.71	0.16	66.00	5.86	3.66	0.00
15.00	5.00	2.90	0.11	67.00	5.86	3.66	0.00
16.00	5.16	3.03	0.09	68.00	5.86	3.66	0.00
17.00	5.29	3.15	0.07	69.00	5.86	3.66	0.00
18.00	5.40	3.24	0.06	70.00	5.86	3.66	0.00
19.00	5.49	3.32	0.05	71.00	5.86	3.66	0.00
20.00	5.57	3.40	0.05	72.00	5.86	3.66	0.00
21.00	5.65	3.47	0.05				
22.00	5.73	3.54	0.04				
23.00	5.80	3.60	0.04				
24.00	5.86	3.66	0.04				
25.00	5.86	3.66	0.00				
26.00	5.86	3.66	0.00				
27.00	5.86	3.66	0.00				
28.00	5.86	3.66	0.00				
29.00	5.86	3.66	0.00				
30.00	5.86	3.66	0.00				
31.00	5.86	3.66	0.00				
32.00	5.86	3.66	0.00				
33.00	5.86	3.66	0.00				
34.00	5.86	3.66	0.00				
35.00	5.86	3.66	0.00				
36.00	5.86	3.66	0.00				
37.00	5.86	3.66	0.00				
38.00	5.86	3.66	0.00				
39.00	5.86	3.66	0.00				
40.00	5.86	3.66	0.00				
41.00	5.86	3.66	0.00				
42.00	5.86	3.66	0.00				
43.00	5.86	3.66	0.00				
44.00	5.86	3.66	0.00				
45.00	5.86	3.66	0.00				
46.00	5.86	3.66	0.00				
47.00	5.86	3.66	0.00				
48.00	5.86	3.66	0.00				
49.00	5.86	3.66	0.00				
50.00	5.86	3.66	0.00				
51.00	5.86	3.66	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.89 cfs @ 12.07 hrs, Volume= 0.333 af, Depth= 5.62"
Routed to Pond 45P : Pervious Pavement

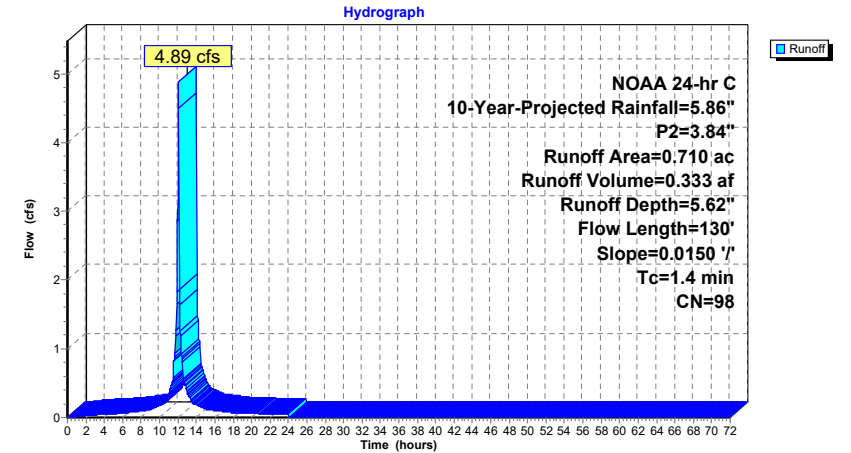
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0150	1.34		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	130				Total



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.06	0.00	0.01
2.00	0.13	0.03	0.03
3.00	0.21	0.07	0.04
4.00	0.29	0.13	0.05
5.00	0.37	0.21	0.05
6.00	0.46	0.29	0.06
7.00	0.57	0.38	0.08
8.00	0.70	0.51	0.10
9.00	0.86	0.65	0.11
10.00	1.07	0.86	0.18
11.00	1.41	1.19	0.33
12.00	2.79	2.56	3.16
13.00	4.45	4.22	0.37
14.00	4.79	4.56	0.19
15.00	5.00	4.77	0.12
16.00	5.16	4.92	0.10
17.00	5.29	5.05	0.09
18.00	5.40	5.16	0.07
19.00	5.49	5.25	0.06
20.00	5.57	5.34	0.06
21.00	5.65	5.42	0.06
22.00	5.73	5.49	0.05
23.00	5.80	5.56	0.05
24.00	5.86	5.62	0.05
25.00	5.86	5.62	0.00
26.00	5.86	5.62	0.00
27.00	5.86	5.62	0.00
28.00	5.86	5.62	0.00
29.00	5.86	5.62	0.00
30.00	5.86	5.62	0.00
31.00	5.86	5.62	0.00
32.00	5.86	5.62	0.00
33.00	5.86	5.62	0.00
34.00	5.86	5.62	0.00
35.00	5.86	5.62	0.00
36.00	5.86	5.62	0.00
37.00	5.86	5.62	0.00
38.00	5.86	5.62	0.00
39.00	5.86	5.62	0.00
40.00	5.86	5.62	0.00
41.00	5.86	5.62	0.00
42.00	5.86	5.62	0.00
43.00	5.86	5.62	0.00
44.00	5.86	5.62	0.00
45.00	5.86	5.62	0.00
46.00	5.86	5.62	0.00
47.00	5.86	5.62	0.00
48.00	5.86	5.62	0.00
49.00	5.86	5.62	0.00
50.00	5.86	5.62	0.00
51.00	5.86	5.62	0.00

Summary for Subcatchment 47S: Pervious

Runoff = 0.41 cfs @ 12.14 hrs, Volume= 0.027 af, Depth= 3.66"
Routed to Pond 45P : Pervious Pavement

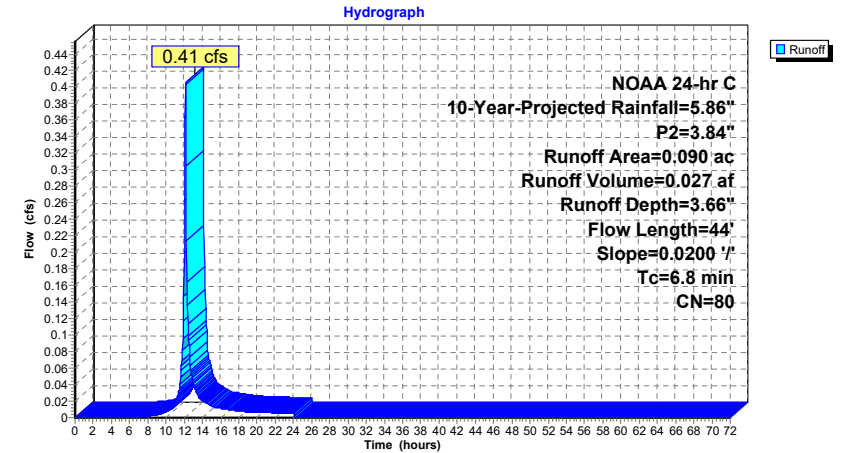
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	44	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.86	3.66	0.00
1.00	0.06	0.00	0.00	53.00	5.86	3.66	0.00
2.00	0.13	0.00	0.00	54.00	5.86	3.66	0.00
3.00	0.21	0.00	0.00	55.00	5.86	3.66	0.00
4.00	0.29	0.00	0.00	56.00	5.86	3.66	0.00
5.00	0.37	0.00	0.00	57.00	5.86	3.66	0.00
6.00	0.46	0.00	0.00	58.00	5.86	3.66	0.00
7.00	0.57	0.00	0.00	59.00	5.86	3.66	0.00
8.00	0.70	0.02	0.00	60.00	5.86	3.66	0.00
9.00	0.86	0.04	0.00	61.00	5.86	3.66	0.00
10.00	1.07	0.11	0.01	62.00	5.86	3.66	0.00
11.00	1.41	0.24	0.02	63.00	5.86	3.66	0.00
12.00	2.79	1.10	0.20	64.00	5.86	3.66	0.00
13.00	4.45	2.42	0.04	65.00	5.86	3.66	0.00
14.00	4.79	2.71	0.02	66.00	5.86	3.66	0.00
15.00	5.00	2.90	0.01	67.00	5.86	3.66	0.00
16.00	5.16	3.03	0.01	68.00	5.86	3.66	0.00
17.00	5.29	3.15	0.01	69.00	5.86	3.66	0.00
18.00	5.40	3.24	0.01	70.00	5.86	3.66	0.00
19.00	5.49	3.32	0.01	71.00	5.86	3.66	0.00
20.00	5.57	3.40	0.01	72.00	5.86	3.66	0.00
21.00	5.65	3.47	0.01				
22.00	5.73	3.54	0.01				
23.00	5.80	3.60	0.01				
24.00	5.86	3.66	0.01				
25.00	5.86	3.66	0.00				
26.00	5.86	3.66	0.00				
27.00	5.86	3.66	0.00				
28.00	5.86	3.66	0.00				
29.00	5.86	3.66	0.00				
30.00	5.86	3.66	0.00				
31.00	5.86	3.66	0.00				
32.00	5.86	3.66	0.00				
33.00	5.86	3.66	0.00				
34.00	5.86	3.66	0.00				
35.00	5.86	3.66	0.00				
36.00	5.86	3.66	0.00				
37.00	5.86	3.66	0.00				
38.00	5.86	3.66	0.00				
39.00	5.86	3.66	0.00				
40.00	5.86	3.66	0.00				
41.00	5.86	3.66	0.00				
42.00	5.86	3.66	0.00				
43.00	5.86	3.66	0.00				
44.00	5.86	3.66	0.00				
45.00	5.86	3.66	0.00				
46.00	5.86	3.66	0.00				
47.00	5.86	3.66	0.00				
48.00	5.86	3.66	0.00				
49.00	5.86	3.66	0.00				
50.00	5.86	3.66	0.00				
51.00	5.86	3.66	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.21 cfs @ 12.07 hrs, Volume= 0.014 af, Depth= 5.62"
Routed to Link 44L : DA Undetained

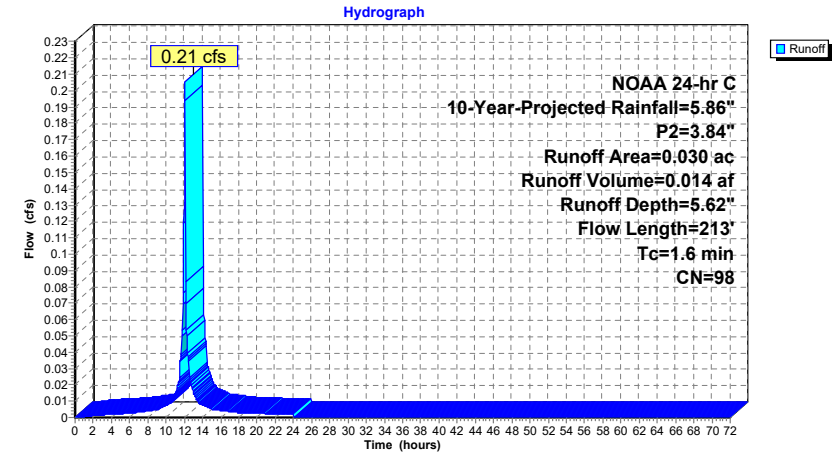
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.74		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.06	0.00	0.00
2.00	0.13	0.03	0.00
3.00	0.21	0.07	0.00
4.00	0.29	0.13	0.00
5.00	0.37	0.21	0.00
6.00	0.46	0.29	0.00
7.00	0.57	0.38	0.00
8.00	0.70	0.51	0.00
9.00	0.86	0.65	0.00
10.00	1.07	0.86	0.01
11.00	1.41	1.19	0.01
12.00	2.79	2.56	0.13
13.00	4.45	4.22	0.02
14.00	4.79	4.56	0.01
15.00	5.00	4.77	0.01
16.00	5.16	4.92	0.00
17.00	5.29	5.05	0.00
18.00	5.40	5.16	0.00
19.00	5.49	5.25	0.00
20.00	5.57	5.34	0.00
21.00	5.65	5.42	0.00
22.00	5.73	5.49	0.00
23.00	5.80	5.56	0.00
24.00	5.86	5.62	0.00
25.00	5.86	5.62	0.00
26.00	5.86	5.62	0.00
27.00	5.86	5.62	0.00
28.00	5.86	5.62	0.00
29.00	5.86	5.62	0.00
30.00	5.86	5.62	0.00
31.00	5.86	5.62	0.00
32.00	5.86	5.62	0.00
33.00	5.86	5.62	0.00
34.00	5.86	5.62	0.00
35.00	5.86	5.62	0.00
36.00	5.86	5.62	0.00
37.00	5.86	5.62	0.00
38.00	5.86	5.62	0.00
39.00	5.86	5.62	0.00
40.00	5.86	5.62	0.00
41.00	5.86	5.62	0.00
42.00	5.86	5.62	0.00
43.00	5.86	5.62	0.00
44.00	5.86	5.62	0.00
45.00	5.86	5.62	0.00
46.00	5.86	5.62	0.00
47.00	5.86	5.62	0.00
48.00	5.86	5.62	0.00
49.00	5.86	5.62	0.00
50.00	5.86	5.62	0.00
51.00	5.86	5.62	0.00

Summary for Subcatchment 49S: Pervious

Runoff = 0.69 cfs @ 12.17 hrs, Volume= 0.052 af, Depth= 3.66"
Routed to Link 44L : DA Undetained

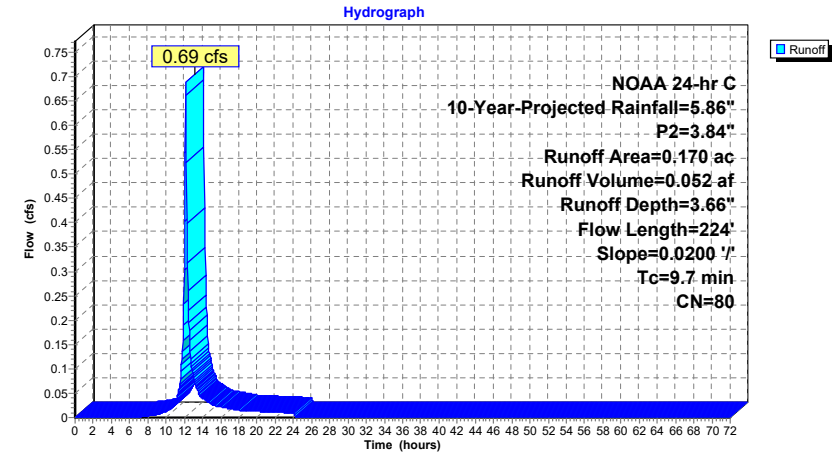
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Projected Rainfall=5.86", P2=3.84"

Area (ac)	CN	Description			
0.170	80	>75% Grass cover, Good, HSG D			
0.170		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	59	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
9.7	224	Total			



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.06	0.00	0.00
2.00	0.13	0.00	0.00
3.00	0.21	0.00	0.00
4.00	0.29	0.00	0.00
5.00	0.37	0.00	0.00
6.00	0.46	0.00	0.00
7.00	0.57	0.00	0.00
8.00	0.70	0.02	0.00
9.00	0.86	0.04	0.01
10.00	1.07	0.11	0.01
11.00	1.41	0.24	0.03
12.00	2.79	1.10	0.30
13.00	4.45	2.42	0.09
14.00	4.79	2.71	0.04
15.00	5.00	2.90	0.03
16.00	5.16	3.03	0.02
17.00	5.29	3.15	0.02
18.00	5.40	3.24	0.02
19.00	5.49	3.32	0.01
20.00	5.57	3.40	0.01
21.00	5.65	3.47	0.01
22.00	5.73	3.54	0.01
23.00	5.80	3.60	0.01
24.00	5.86	3.66	0.01
25.00	5.86	3.66	0.00
26.00	5.86	3.66	0.00
27.00	5.86	3.66	0.00
28.00	5.86	3.66	0.00
29.00	5.86	3.66	0.00
30.00	5.86	3.66	0.00
31.00	5.86	3.66	0.00
32.00	5.86	3.66	0.00
33.00	5.86	3.66	0.00
34.00	5.86	3.66	0.00
35.00	5.86	3.66	0.00
36.00	5.86	3.66	0.00
37.00	5.86	3.66	0.00
38.00	5.86	3.66	0.00
39.00	5.86	3.66	0.00
40.00	5.86	3.66	0.00
41.00	5.86	3.66	0.00
42.00	5.86	3.66	0.00
43.00	5.86	3.66	0.00
44.00	5.86	3.66	0.00
45.00	5.86	3.66	0.00
46.00	5.86	3.66	0.00
47.00	5.86	3.66	0.00
48.00	5.86	3.66	0.00
49.00	5.86	3.66	0.00
50.00	5.86	3.66	0.00
51.00	5.86	3.66	0.00

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 4.42" for 10-Year-Projected event
Inflow = 5.01 cfs @ 12.12 hrs, Volume= 0.406 af
Outflow = 2.98 cfs @ 12.27 hrs, Volume= 0.353 af, Atten= 41%, Lag= 9.2 min
Primary = 2.98 cfs @ 12.27 hrs, Volume= 0.353 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.08' @ 12.27 hrs Surf.Area= 2,874 sf Storage= 6,901 cf

Plug-Flow detention time= 155.7 min calculated for 0.353 af (87% of inflow)
Center-of-Mass det. time= 94.2 min (877.4 - 783.2)

Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

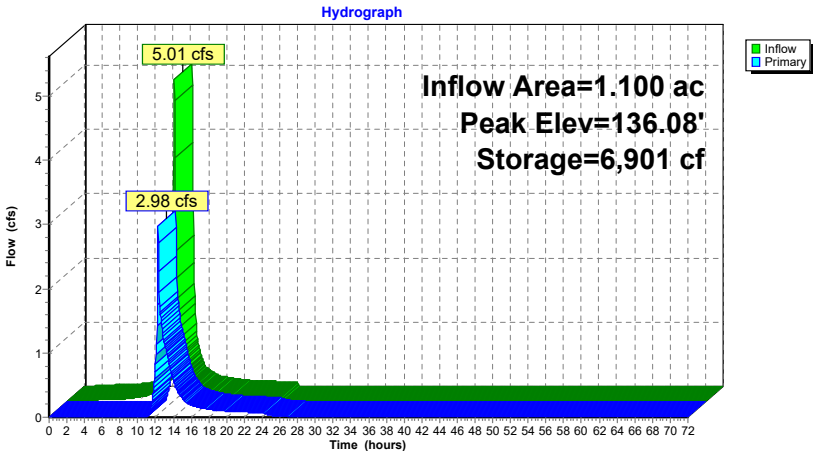
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

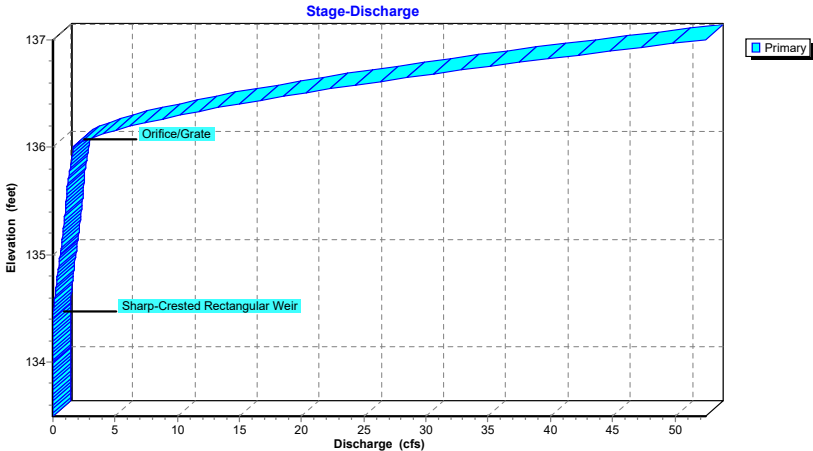
Primary OutFlow Max=2.80 cfs @ 12.27 hrs HW=136.08' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 1.77 cfs @ 4.23 fps)
2=Orifice/Grate (Weir Controls 1.03 cfs @ 0.90 fps)

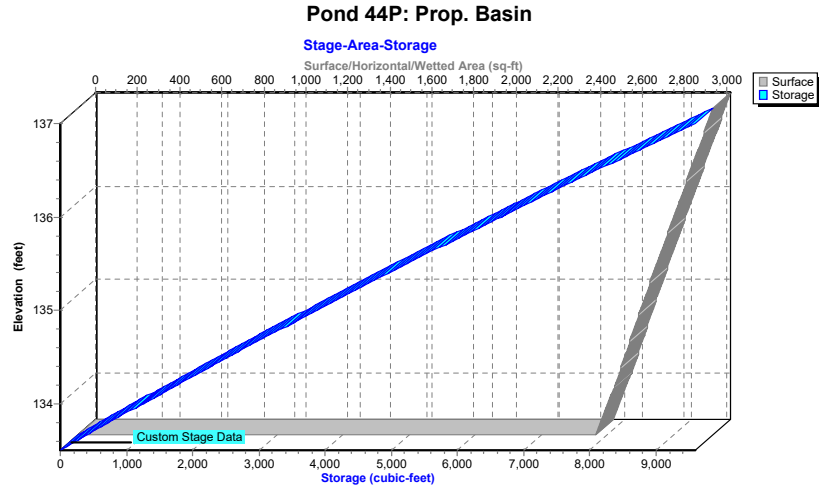


Pond 44P: Prop. Basin



Pond 44P: Prop. Basin





Hydrograph for Pond 44P: Prop. Basin				
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.02	73	133.53	0.00
5.00	0.03	314	133.63	0.00
7.50	0.06	691	133.78	0.00
10.00	0.16	1,543	134.11	0.00
12.50	1.29	6,619	135.99	1.63
15.00	0.18	3,209	134.75	0.29
17.50	0.11	2,807	134.60	0.13
20.00	0.09	2,689	134.55	0.09
22.50	0.07	2,638	134.54	0.08
25.00	0.00	2,467	134.47	0.03
27.50	0.00	2,341	134.42	0.01
30.00	0.00	2,311	134.41	0.00
32.50	0.00	2,299	134.41	0.00
35.00	0.00	2,293	134.40	0.00
37.50	0.00	2,289	134.40	0.00
40.00	0.00	2,287	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,285	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

Inflow Area = 0.800 ac, 88.75% Impervious, Inflow Depth = 5.40" for 10-Year-Projected event
Inflow = 5.18 cfs @ 12.07 hrs, Volume= 0.360 af
Outflow = 0.34 cfs @ 13.18 hrs, Volume= 0.338 af, Atten= 93%, Lag= 66.7 min
Primary = 0.34 cfs @ 13.18 hrs, Volume= 0.338 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 134.55' @ 13.18 hrs Surf.Area= 9,150 sf Storage= 9,177 cf

Plug-Flow detention time= 380.2 min calculated for 0.338 af (94% of inflow)
Center-of-Mass det. time= 346.9 min (1,094.7 - 747.8)

Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below 41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1 L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1 L= 502.0'
		16,662 cf	Total Available Storage

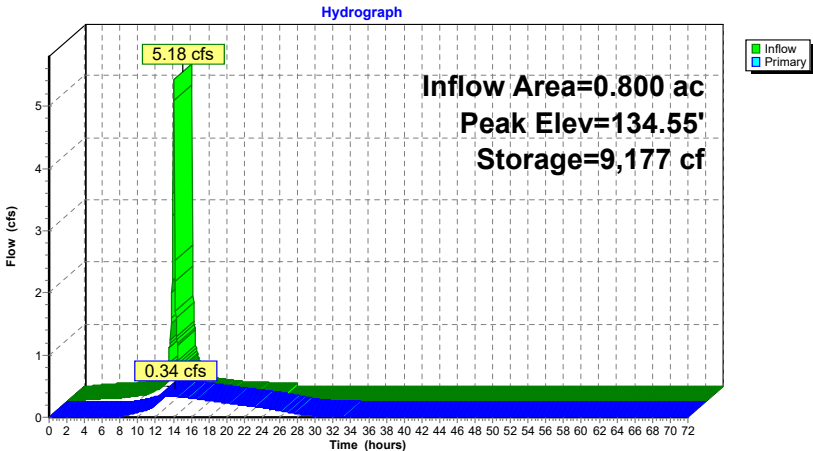
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175

Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)

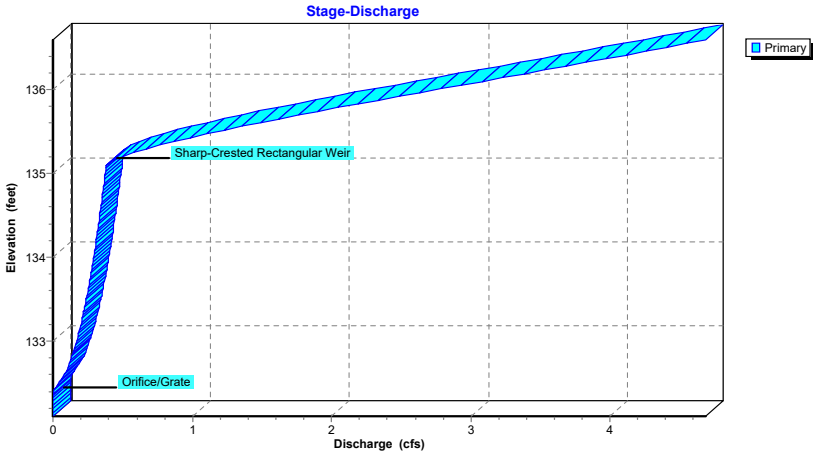
Primary OutFlow Max=0.34 cfs @ 13.18 hrs HW=134.55' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.34 cfs @ 6.94 fps)
2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)



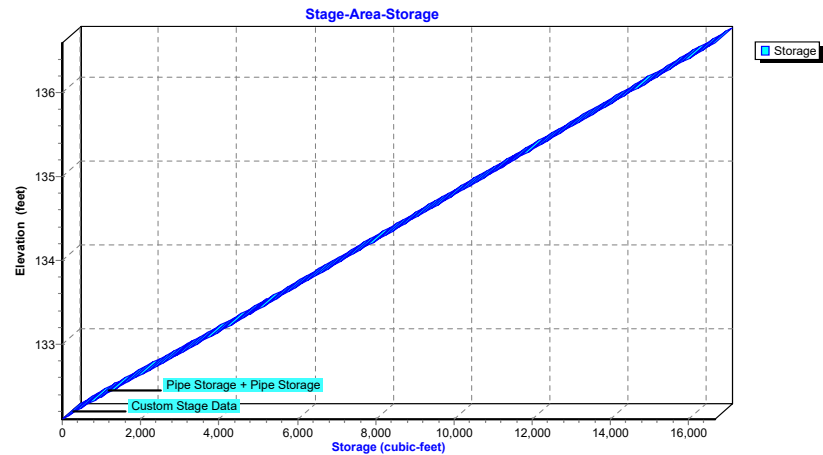
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.03	125	132.13	0.00
5.00	0.05	525	132.24	0.00
7.50	0.09	1,125	132.41	0.01
10.00	0.18	1,856	132.59	0.08
12.50	0.90	8,781	134.45	0.33
15.00	0.14	8,355	134.33	0.32
17.50	0.09	6,630	133.86	0.28
20.00	0.07	5,003	133.41	0.23
22.50	0.05	3,700	133.07	0.18
25.00	0.00	2,568	132.77	0.13
27.50	0.00	1,695	132.55	0.06
30.00	0.00	1,333	132.46	0.02
32.50	0.00	1,186	132.42	0.01
35.00	0.00	1,112	132.40	0.01
37.50	0.00	1,064	132.39	0.00
40.00	0.00	1,032	132.38	0.00
42.50	0.00	1,011	132.38	0.00
45.00	0.00	997	132.37	0.00
47.50	0.00	988	132.37	0.00
50.00	0.00	981	132.37	0.00
52.50	0.00	974	132.37	0.00
55.00	0.00	968	132.36	0.00
57.50	0.00	963	132.36	0.00
60.00	0.00	958	132.36	0.00
62.50	0.00	954	132.36	0.00
65.00	0.00	950	132.36	0.00
67.50	0.00	946	132.36	0.00
70.00	0.00	943	132.36	0.00

Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

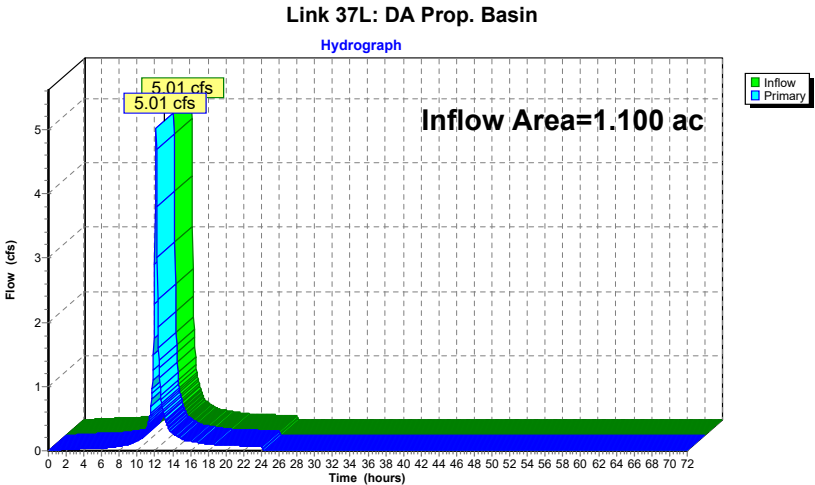
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 4.42" for 10-Year-Projected event
Inflow = 5.01 cfs @ 12.12 hrs, Volume= 0.406 af
Primary = 5.01 cfs @ 12.12 hrs, Volume= 0.406 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



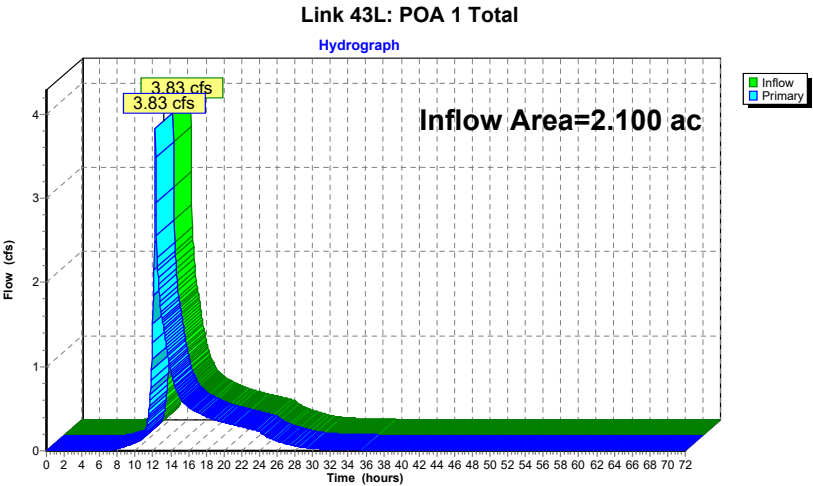
Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.02	0.00	0.02	54.00	0.00	0.00	0.00
3.00	0.02	0.00	0.02	55.00	0.00	0.00	0.00
4.00	0.03	0.00	0.03	56.00	0.00	0.00	0.00
5.00	0.03	0.00	0.03	57.00	0.00	0.00	0.00
6.00	0.04	0.00	0.04	58.00	0.00	0.00	0.00
7.00	0.05	0.00	0.05	59.00	0.00	0.00	0.00
8.00	0.07	0.00	0.07	60.00	0.00	0.00	0.00
9.00	0.09	0.00	0.09	61.00	0.00	0.00	0.00
10.00	0.16	0.00	0.16	62.00	0.00	0.00	0.00
11.00	0.32	0.00	0.32	63.00	0.00	0.00	0.00
12.00	2.90	0.00	2.90	64.00	0.00	0.00	0.00
13.00	0.57	0.00	0.57	65.00	0.00	0.00	0.00
14.00	0.27	0.00	0.27	66.00	0.00	0.00	0.00
15.00	0.18	0.00	0.18	67.00	0.00	0.00	0.00
16.00	0.15	0.00	0.15	68.00	0.00	0.00	0.00
17.00	0.13	0.00	0.13	69.00	0.00	0.00	0.00
18.00	0.10	0.00	0.10	70.00	0.00	0.00	0.00
19.00	0.09	0.00	0.09	71.00	0.00	0.00	0.00
20.00	0.09	0.00	0.09	72.00	0.00	0.00	0.00
21.00	0.08	0.00	0.08				
22.00	0.07	0.00	0.07				
23.00	0.07	0.00	0.07				
24.00	0.07	0.00	0.07				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth = 4.33" for 10-Year-Projected event
Inflow = 3.83 cfs @ 12.26 hrs, Volume= 0.757 af
Primary = 3.83 cfs @ 12.26 hrs, Volume= 0.757 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



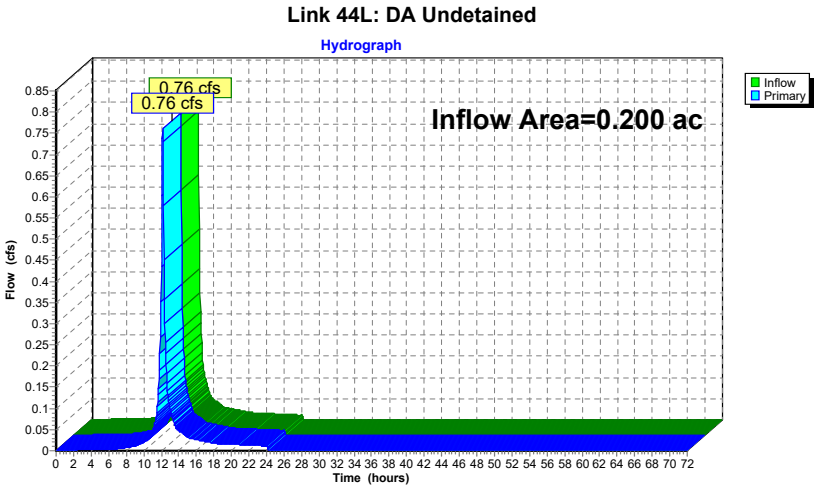
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.03	0.00	0.03	60.00	0.00	0.00	0.00
9.00	0.06	0.00	0.06	61.00	0.00	0.00	0.00
10.00	0.10	0.00	0.10	62.00	0.00	0.00	0.00
11.00	0.17	0.00	0.17	63.00	0.00	0.00	0.00
12.00	1.51	0.00	1.51	64.00	0.00	0.00	0.00
13.00	1.57	0.00	1.57	65.00	0.00	0.00	0.00
14.00	0.95	0.00	0.95	66.00	0.00	0.00	0.00
15.00	0.65	0.00	0.65	67.00	0.00	0.00	0.00
16.00	0.52	0.00	0.52	68.00	0.00	0.00	0.00
17.00	0.46	0.00	0.46	69.00	0.00	0.00	0.00
18.00	0.41	0.00	0.41	70.00	0.00	0.00	0.00
19.00	0.37	0.00	0.37	71.00	0.00	0.00	0.00
20.00	0.34	0.00	0.34	72.00	0.00	0.00	0.00
21.00	0.31	0.00	0.31				
22.00	0.28	0.00	0.28				
23.00	0.26	0.00	0.26				
24.00	0.23	0.00	0.23				
25.00	0.16	0.00	0.16				
26.00	0.12	0.00	0.12				
27.00	0.09	0.00	0.09				
28.00	0.06	0.00	0.06				
29.00	0.04	0.00	0.04				
30.00	0.02	0.00	0.02				
31.00	0.02	0.00	0.02				
32.00	0.01	0.00	0.01				
33.00	0.01	0.00	0.01				
34.00	0.01	0.00	0.01				
35.00	0.01	0.00	0.01				
36.00	0.01	0.00	0.01				
37.00	0.01	0.00	0.01				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 3.95" for 10-Year-Projected event
Inflow = 0.76 cfs @ 12.15 hrs, Volume= 0.066 af
Primary = 0.76 cfs @ 12.15 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.01	0.00	0.01	60.00	0.00	0.00	0.00
9.00	0.01	0.00	0.01	61.00	0.00	0.00	0.00
10.00	0.02	0.00	0.02	62.00	0.00	0.00	0.00
11.00	0.05	0.00	0.05	63.00	0.00	0.00	0.00
12.00	0.43	0.00	0.43	64.00	0.00	0.00	0.00
13.00	0.10	0.00	0.10	65.00	0.00	0.00	0.00
14.00	0.05	0.00	0.05	66.00	0.00	0.00	0.00
15.00	0.03	0.00	0.03	67.00	0.00	0.00	0.00
16.00	0.03	0.00	0.03	68.00	0.00	0.00	0.00
17.00	0.02	0.00	0.02	69.00	0.00	0.00	0.00
18.00	0.02	0.00	0.02	70.00	0.00	0.00	0.00
19.00	0.02	0.00	0.02	71.00	0.00	0.00	0.00
20.00	0.02	0.00	0.02	72.00	0.00	0.00	0.00
21.00	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=8.42" Flow Length=469' Tc=3.7 min CN=98 Runoff=4.20 cfs 0.302 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=6.25" Flow Length=398' Tc=10.5 min CN=80 Runoff=4.42 cfs 0.349 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=8.42" Flow Length=130' Slope=0.0150 '/' Tc=1.5 min CN=98 Runoff=7.23 cfs 0.498 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=6.25" Flow Length=44' Slope=0.0200 '/' Tc=7.2 min CN=80 Runoff=0.67 cfs 0.047 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=8.42" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.30 cfs 0.021 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=6.25" Flow Length=224' Slope=0.0200 '/' Tc=10.4 min CN=80 Runoff=1.13 cfs 0.088 af
Pond 44P: Prop. Basin	Peak Elev=136.23' Storage=7,331 cf Inflow=7.75 cfs 0.650 af Outflow=7.58 cfs 0.598 af
Pond 45P: Pervious Pavement	Peak Elev=135.49' Storage=12,592 cf Inflow=7.72 cfs 0.545 af Outflow=1.14 cfs 0.523 af
Link 37L: DA Prop. Basin	Inflow=7.75 cfs 0.650 af Primary=7.75 cfs 0.650 af
Link 43L: POA 1 Total	Inflow=9.19 cfs 1.231 af Primary=9.19 cfs 1.231 af
Link 44L: DA Undetained	Inflow=1.22 cfs 0.110 af Primary=1.22 cfs 0.110 af

Total Runoff Area = 2.100 ac Runoff Volume = 1.305 af Average Runoff Depth = 7.46"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.20 cfs @ 12.10 hrs, Volume= 0.302 af, Depth= 8.42"
Routed to Link 37L : DA Prop. Basin

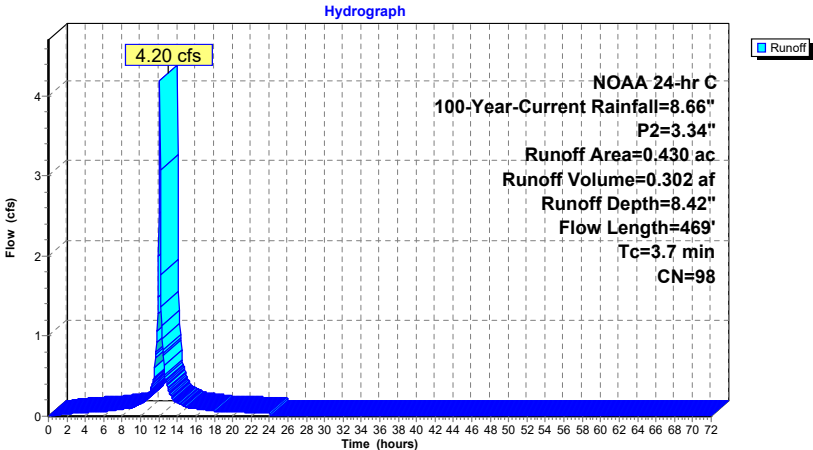
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.7	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	8.42	0.00
1.00	0.09	0.01	0.01	53.00	8.66	8.42	0.00
2.00	0.20	0.07	0.03	54.00	8.66	8.42	0.00
3.00	0.31	0.15	0.04	55.00	8.66	8.42	0.00
4.00	0.42	0.25	0.05	56.00	8.66	8.42	0.00
5.00	0.55	0.36	0.05	57.00	8.66	8.42	0.00
6.00	0.69	0.49	0.06	58.00	8.66	8.42	0.00
7.00	0.84	0.64	0.07	59.00	8.66	8.42	0.00
8.00	1.04	0.83	0.09	60.00	8.66	8.42	0.00
9.00	1.26	1.05	0.10	61.00	8.66	8.42	0.00
10.00	1.58	1.36	0.16	62.00	8.66	8.42	0.00
11.00	2.08	1.85	0.29	63.00	8.66	8.42	0.00
12.00	4.13	3.89	2.54	64.00	8.66	8.42	0.00
13.00	6.58	6.34	0.34	65.00	8.66	8.42	0.00
14.00	7.08	6.84	0.17	66.00	8.66	8.42	0.00
15.00	7.40	7.16	0.11	67.00	8.66	8.42	0.00
16.00	7.62	7.38	0.09	68.00	8.66	8.42	0.00
17.00	7.82	7.58	0.08	69.00	8.66	8.42	0.00
18.00	7.97	7.73	0.06	70.00	8.66	8.42	0.00
19.00	8.11	7.87	0.06	71.00	8.66	8.42	0.00
20.00	8.24	8.00	0.05	72.00	8.66	8.42	0.00
21.00	8.35	8.11	0.05				
22.00	8.46	8.22	0.05				
23.00	8.57	8.33	0.04				
24.00	8.66	8.42	0.05				
25.00	8.66	8.42	0.00				
26.00	8.66	8.42	0.00				
27.00	8.66	8.42	0.00				
28.00	8.66	8.42	0.00				
29.00	8.66	8.42	0.00				
30.00	8.66	8.42	0.00				
31.00	8.66	8.42	0.00				
32.00	8.66	8.42	0.00				
33.00	8.66	8.42	0.00				
34.00	8.66	8.42	0.00				
35.00	8.66	8.42	0.00				
36.00	8.66	8.42	0.00				
37.00	8.66	8.42	0.00				
38.00	8.66	8.42	0.00				
39.00	8.66	8.42	0.00				
40.00	8.66	8.42	0.00				
41.00	8.66	8.42	0.00				
42.00	8.66	8.42	0.00				
43.00	8.66	8.42	0.00				
44.00	8.66	8.42	0.00				
45.00	8.66	8.42	0.00				
46.00	8.66	8.42	0.00				
47.00	8.66	8.42	0.00				
48.00	8.66	8.42	0.00				
49.00	8.66	8.42	0.00				
50.00	8.66	8.42	0.00				
51.00	8.66	8.42	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 4.42 cfs @ 12.18 hrs, Volume= 0.349 af, Depth= 6.25"
Routed to Link 37L : DA Prop. Basin

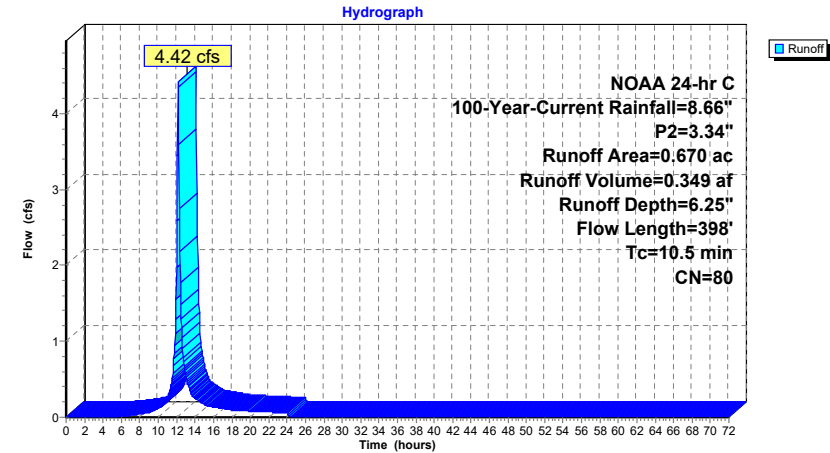
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.670	80	>75% Grass cover, Good, HSG D
0.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	72	0.0300	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	278	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
10.5	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	6.25	0.00
1.00	0.09	0.00	0.00	53.00	8.66	6.25	0.00
2.00	0.20	0.00	0.00	54.00	8.66	6.25	0.00
3.00	0.31	0.00	0.00	55.00	8.66	6.25	0.00
4.00	0.42	0.00	0.00	56.00	8.66	6.25	0.00
5.00	0.55	0.00	0.00	57.00	8.66	6.25	0.00
6.00	0.69	0.01	0.01	58.00	8.66	6.25	0.00
7.00	0.84	0.04	0.02	59.00	8.66	6.25	0.00
8.00	1.04	0.10	0.04	60.00	8.66	6.25	0.00
9.00	1.26	0.18	0.06	61.00	8.66	6.25	0.00
10.00	1.58	0.33	0.12	62.00	8.66	6.25	0.00
11.00	2.08	0.61	0.26	63.00	8.66	6.25	0.00
12.00	4.13	2.15	1.98	64.00	8.66	6.25	0.00
13.00	6.58	4.31	0.55	65.00	8.66	6.25	0.00
14.00	7.08	4.77	0.25	66.00	8.66	6.25	0.00
15.00	7.40	5.06	0.17	67.00	8.66	6.25	0.00
16.00	7.62	5.27	0.14	68.00	8.66	6.25	0.00
17.00	7.82	5.45	0.11	69.00	8.66	6.25	0.00
18.00	7.97	5.60	0.09	70.00	8.66	6.25	0.00
19.00	8.11	5.73	0.08	71.00	8.66	6.25	0.00
20.00	8.24	5.85	0.08	72.00	8.66	6.25	0.00
21.00	8.35	5.96	0.07				
22.00	8.46	6.06	0.07				
23.00	8.57	6.16	0.06				
24.00	8.66	6.25	0.06				
25.00	8.66	6.25	0.00				
26.00	8.66	6.25	0.00				
27.00	8.66	6.25	0.00				
28.00	8.66	6.25	0.00				
29.00	8.66	6.25	0.00				
30.00	8.66	6.25	0.00				
31.00	8.66	6.25	0.00				
32.00	8.66	6.25	0.00				
33.00	8.66	6.25	0.00				
34.00	8.66	6.25	0.00				
35.00	8.66	6.25	0.00				
36.00	8.66	6.25	0.00				
37.00	8.66	6.25	0.00				
38.00	8.66	6.25	0.00				
39.00	8.66	6.25	0.00				
40.00	8.66	6.25	0.00				
41.00	8.66	6.25	0.00				
42.00	8.66	6.25	0.00				
43.00	8.66	6.25	0.00				
44.00	8.66	6.25	0.00				
45.00	8.66	6.25	0.00				
46.00	8.66	6.25	0.00				
47.00	8.66	6.25	0.00				
48.00	8.66	6.25	0.00				
49.00	8.66	6.25	0.00				
50.00	8.66	6.25	0.00				
51.00	8.66	6.25	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 7.23 cfs @ 12.07 hrs, Volume= 0.498 af, Depth= 8.42"
Routed to Pond 45P : Pervious Pavement

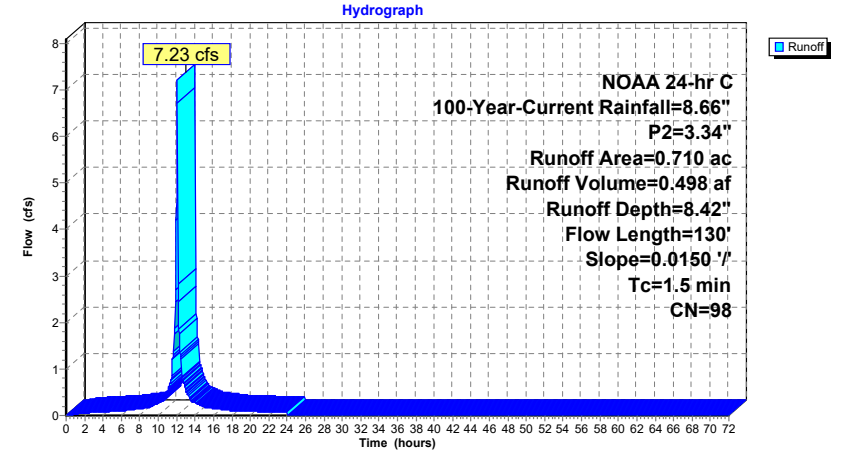
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0150	1.25		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.5	130				Total



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	8.42	0.00
1.00	0.09	0.01	0.03	53.00	8.66	8.42	0.00
2.00	0.20	0.07	0.05	54.00	8.66	8.42	0.00
3.00	0.31	0.15	0.07	55.00	8.66	8.42	0.00
4.00	0.42	0.25	0.08	56.00	8.66	8.42	0.00
5.00	0.55	0.36	0.09	57.00	8.66	8.42	0.00
6.00	0.69	0.49	0.09	58.00	8.66	8.42	0.00
7.00	0.84	0.64	0.12	59.00	8.66	8.42	0.00
8.00	1.04	0.83	0.15	60.00	8.66	8.42	0.00
9.00	1.26	1.05	0.17	61.00	8.66	8.42	0.00
10.00	1.58	1.36	0.26	62.00	8.66	8.42	0.00
11.00	2.08	1.85	0.49	63.00	8.66	8.42	0.00
12.00	4.13	3.89	4.63	64.00	8.66	8.42	0.00
13.00	6.58	6.34	0.55	65.00	8.66	8.42	0.00
14.00	7.08	6.84	0.27	66.00	8.66	8.42	0.00
15.00	7.40	7.16	0.18	67.00	8.66	8.42	0.00
16.00	7.62	7.38	0.15	68.00	8.66	8.42	0.00
17.00	7.82	7.58	0.13	69.00	8.66	8.42	0.00
18.00	7.97	7.73	0.10	70.00	8.66	8.42	0.00
19.00	8.11	7.87	0.09	71.00	8.66	8.42	0.00
20.00	8.24	8.00	0.09	72.00	8.66	8.42	0.00
21.00	8.35	8.11	0.08				
22.00	8.46	8.22	0.08				
23.00	8.57	8.33	0.07				
24.00	8.66	8.42	0.07				
25.00	8.66	8.42	0.00				
26.00	8.66	8.42	0.00				
27.00	8.66	8.42	0.00				
28.00	8.66	8.42	0.00				
29.00	8.66	8.42	0.00				
30.00	8.66	8.42	0.00				
31.00	8.66	8.42	0.00				
32.00	8.66	8.42	0.00				
33.00	8.66	8.42	0.00				
34.00	8.66	8.42	0.00				
35.00	8.66	8.42	0.00				
36.00	8.66	8.42	0.00				
37.00	8.66	8.42	0.00				
38.00	8.66	8.42	0.00				
39.00	8.66	8.42	0.00				
40.00	8.66	8.42	0.00				
41.00	8.66	8.42	0.00				
42.00	8.66	8.42	0.00				
43.00	8.66	8.42	0.00				
44.00	8.66	8.42	0.00				
45.00	8.66	8.42	0.00				
46.00	8.66	8.42	0.00				
47.00	8.66	8.42	0.00				
48.00	8.66	8.42	0.00				
49.00	8.66	8.42	0.00				
50.00	8.66	8.42	0.00				
51.00	8.66	8.42	0.00				

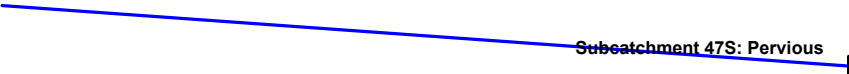
Summary for Subcatchment 47S: Pervious

Runoff = 0.67 cfs @ 12.14 hrs, Volume= 0.047 af, Depth= 6.25"
Routed to Pond 45P : Pervious Pavement

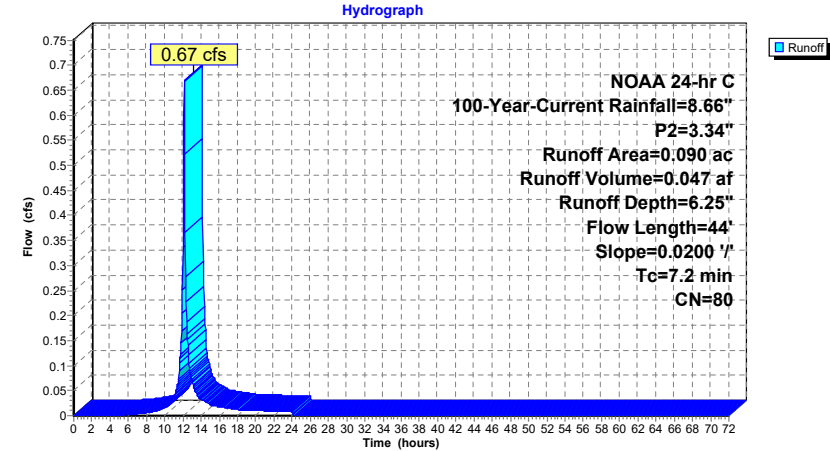
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	44	0.0200	0.10		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	6.25	0.00
1.00	0.09	0.00	0.00	53.00	8.66	6.25	0.00
2.00	0.20	0.00	0.00	54.00	8.66	6.25	0.00
3.00	0.31	0.00	0.00	55.00	8.66	6.25	0.00
4.00	0.42	0.00	0.00	56.00	8.66	6.25	0.00
5.00	0.55	0.00	0.00	57.00	8.66	6.25	0.00
6.00	0.69	0.01	0.00	58.00	8.66	6.25	0.00
7.00	0.84	0.04	0.00	59.00	8.66	6.25	0.00
8.00	1.04	0.10	0.01	60.00	8.66	6.25	0.00
9.00	1.26	0.18	0.01	61.00	8.66	6.25	0.00
10.00	1.58	0.33	0.02	62.00	8.66	6.25	0.00
11.00	2.08	0.61	0.04	63.00	8.66	6.25	0.00
12.00	4.13	2.15	0.34	64.00	8.66	6.25	0.00
13.00	6.58	4.31	0.07	65.00	8.66	6.25	0.00
14.00	7.08	4.77	0.03	66.00	8.66	6.25	0.00
15.00	7.40	5.06	0.02	67.00	8.66	6.25	0.00
16.00	7.62	5.27	0.02	68.00	8.66	6.25	0.00
17.00	7.82	5.45	0.02	69.00	8.66	6.25	0.00
18.00	7.97	5.60	0.01	70.00	8.66	6.25	0.00
19.00	8.11	5.73	0.01	71.00	8.66	6.25	0.00
20.00	8.24	5.85	0.01	72.00	8.66	6.25	0.00
21.00	8.35	5.96	0.01				
22.00	8.46	6.06	0.01				
23.00	8.57	6.16	0.01				
24.00	8.66	6.25	0.01				
25.00	8.66	6.25	0.00				
26.00	8.66	6.25	0.00				
27.00	8.66	6.25	0.00				
28.00	8.66	6.25	0.00				
29.00	8.66	6.25	0.00				
30.00	8.66	6.25	0.00				
31.00	8.66	6.25	0.00				
32.00	8.66	6.25	0.00				
33.00	8.66	6.25	0.00				
34.00	8.66	6.25	0.00				
35.00	8.66	6.25	0.00				
36.00	8.66	6.25	0.00				
37.00	8.66	6.25	0.00				
38.00	8.66	6.25	0.00				
39.00	8.66	6.25	0.00				
40.00	8.66	6.25	0.00				
41.00	8.66	6.25	0.00				
42.00	8.66	6.25	0.00				
43.00	8.66	6.25	0.00				
44.00	8.66	6.25	0.00				
45.00	8.66	6.25	0.00				
46.00	8.66	6.25	0.00				
47.00	8.66	6.25	0.00				
48.00	8.66	6.25	0.00				
49.00	8.66	6.25	0.00				
50.00	8.66	6.25	0.00				
51.00	8.66	6.25	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.021 af, Depth= 8.42"
Routed to Link 44L : DA Undetained

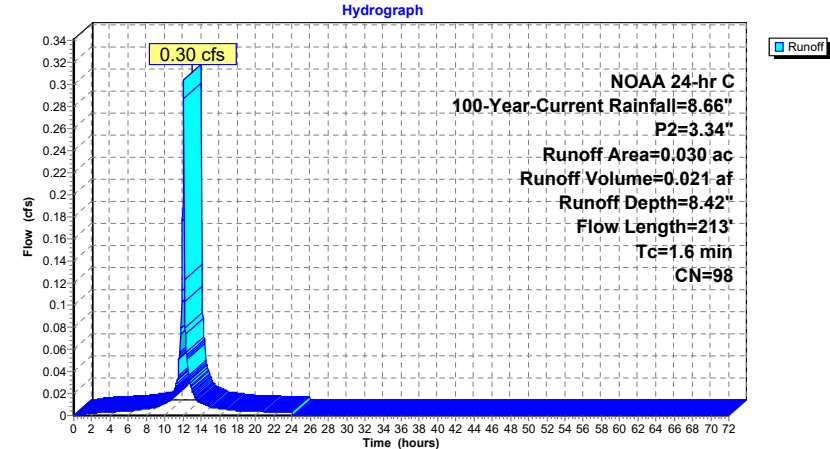
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.69		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	8.42	0.00
1.00	0.09	0.01	0.00	53.00	8.66	8.42	0.00
2.00	0.20	0.07	0.00	54.00	8.66	8.42	0.00
3.00	0.31	0.15	0.00	55.00	8.66	8.42	0.00
4.00	0.42	0.25	0.00	56.00	8.66	8.42	0.00
5.00	0.55	0.36	0.00	57.00	8.66	8.42	0.00
6.00	0.69	0.49	0.00	58.00	8.66	8.42	0.00
7.00	0.84	0.64	0.01	59.00	8.66	8.42	0.00
8.00	1.04	0.83	0.01	60.00	8.66	8.42	0.00
9.00	1.26	1.05	0.01	61.00	8.66	8.42	0.00
10.00	1.58	1.36	0.01	62.00	8.66	8.42	0.00
11.00	2.08	1.85	0.02	63.00	8.66	8.42	0.00
12.00	4.13	3.89	0.19	64.00	8.66	8.42	0.00
13.00	6.58	6.34	0.02	65.00	8.66	8.42	0.00
14.00	7.08	6.84	0.01	66.00	8.66	8.42	0.00
15.00	7.40	7.16	0.01	67.00	8.66	8.42	0.00
16.00	7.62	7.38	0.01	68.00	8.66	8.42	0.00
17.00	7.82	7.58	0.01	69.00	8.66	8.42	0.00
18.00	7.97	7.73	0.00	70.00	8.66	8.42	0.00
19.00	8.11	7.87	0.00	71.00	8.66	8.42	0.00
20.00	8.24	8.00	0.00	72.00	8.66	8.42	0.00
21.00	8.35	8.11	0.00				
22.00	8.46	8.22	0.00				
23.00	8.57	8.33	0.00				
24.00	8.66	8.42	0.00				
25.00	8.66	8.42	0.00				
26.00	8.66	8.42	0.00				
27.00	8.66	8.42	0.00				
28.00	8.66	8.42	0.00				
29.00	8.66	8.42	0.00				
30.00	8.66	8.42	0.00				
31.00	8.66	8.42	0.00				
32.00	8.66	8.42	0.00				
33.00	8.66	8.42	0.00				
34.00	8.66	8.42	0.00				
35.00	8.66	8.42	0.00				
36.00	8.66	8.42	0.00				
37.00	8.66	8.42	0.00				
38.00	8.66	8.42	0.00				
39.00	8.66	8.42	0.00				
40.00	8.66	8.42	0.00				
41.00	8.66	8.42	0.00				
42.00	8.66	8.42	0.00				
43.00	8.66	8.42	0.00				
44.00	8.66	8.42	0.00				
45.00	8.66	8.42	0.00				
46.00	8.66	8.42	0.00				
47.00	8.66	8.42	0.00				
48.00	8.66	8.42	0.00				
49.00	8.66	8.42	0.00				
50.00	8.66	8.42	0.00				
51.00	8.66	8.42	0.00				

Summary for Subcatchment 49S: Pervious

Runoff = 1.13 cfs @ 12.18 hrs, Volume= 0.088 af, Depth= 6.25"
 Routed to Link 44L : DA Undetained

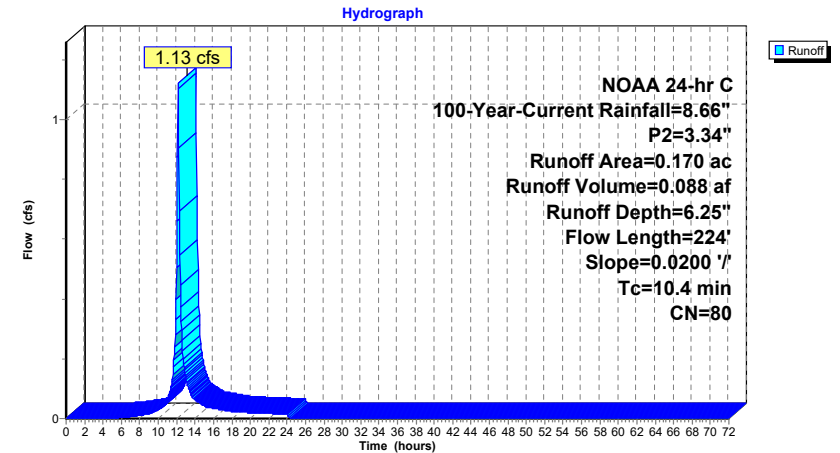
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 NOAA 24-hr C 100-Year-Current Rainfall=8.66", P2=3.34"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	59	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
10.4	224	Total			



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	8.66	6.25	0.00
1.00	0.09	0.00	0.00	53.00	8.66	6.25	0.00
2.00	0.20	0.00	0.00	54.00	8.66	6.25	0.00
3.00	0.31	0.00	0.00	55.00	8.66	6.25	0.00
4.00	0.42	0.00	0.00	56.00	8.66	6.25	0.00
5.00	0.55	0.00	0.00	57.00	8.66	6.25	0.00
6.00	0.69	0.01	0.00	58.00	8.66	6.25	0.00
7.00	0.84	0.04	0.01	59.00	8.66	6.25	0.00
8.00	1.04	0.10	0.01	60.00	8.66	6.25	0.00
9.00	1.26	0.18	0.02	61.00	8.66	6.25	0.00
10.00	1.58	0.33	0.03	62.00	8.66	6.25	0.00
11.00	2.08	0.61	0.07	63.00	8.66	6.25	0.00
12.00	4.13	2.15	0.51	64.00	8.66	6.25	0.00
13.00	6.58	4.31	0.14	65.00	8.66	6.25	0.00
14.00	7.08	4.77	0.06	66.00	8.66	6.25	0.00
15.00	7.40	5.06	0.04	67.00	8.66	6.25	0.00
16.00	7.62	5.27	0.03	68.00	8.66	6.25	0.00
17.00	7.82	5.45	0.03	69.00	8.66	6.25	0.00
18.00	7.97	5.60	0.02	70.00	8.66	6.25	0.00
19.00	8.11	5.73	0.02	71.00	8.66	6.25	0.00
20.00	8.24	5.85	0.02	72.00	8.66	6.25	0.00
21.00	8.35	5.96	0.02				
22.00	8.46	6.06	0.02				
23.00	8.57	6.16	0.02				
24.00	8.66	6.25	0.02				
25.00	8.66	6.25	0.00				
26.00	8.66	6.25	0.00				
27.00	8.66	6.25	0.00				
28.00	8.66	6.25	0.00				
29.00	8.66	6.25	0.00				
30.00	8.66	6.25	0.00				
31.00	8.66	6.25	0.00				
32.00	8.66	6.25	0.00				
33.00	8.66	6.25	0.00				
34.00	8.66	6.25	0.00				
35.00	8.66	6.25	0.00				
36.00	8.66	6.25	0.00				
37.00	8.66	6.25	0.00				
38.00	8.66	6.25	0.00				
39.00	8.66	6.25	0.00				
40.00	8.66	6.25	0.00				
41.00	8.66	6.25	0.00				
42.00	8.66	6.25	0.00				
43.00	8.66	6.25	0.00				
44.00	8.66	6.25	0.00				
45.00	8.66	6.25	0.00				
46.00	8.66	6.25	0.00				
47.00	8.66	6.25	0.00				
48.00	8.66	6.25	0.00				
49.00	8.66	6.25	0.00				
50.00	8.66	6.25	0.00				
51.00	8.66	6.25	0.00				

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 7.10" for 100-Year-Current event
Inflow = 7.75 cfs @ 12.12 hrs, Volume= 0.650 af
Outflow = 7.58 cfs @ 12.16 hrs, Volume= 0.598 af, Atten= 2%, Lag= 2.2 min
Primary = 7.58 cfs @ 12.16 hrs, Volume= 0.598 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.23' @ 12.16 hrs Surf.Area= 2,897 sf Storage= 7,331 cf

Plug-Flow detention time= 118.6 min calculated for 0.598 af (92% of inflow)
Center-of-Mass det. time= 75.4 min (850.6 - 775.2)

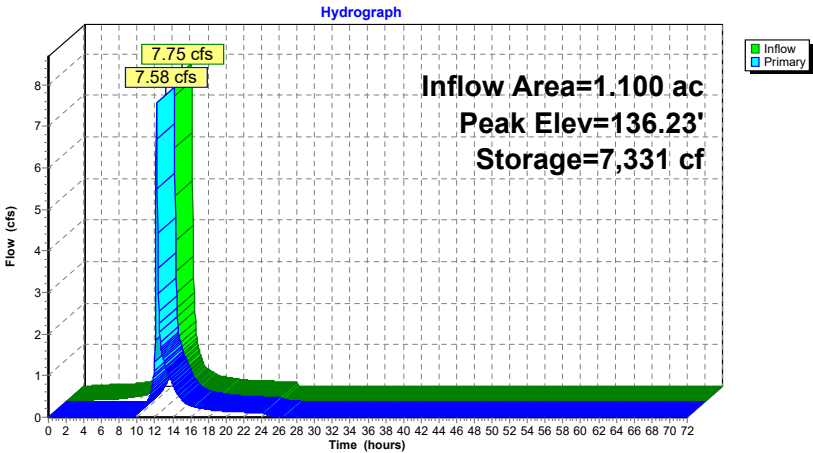
Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

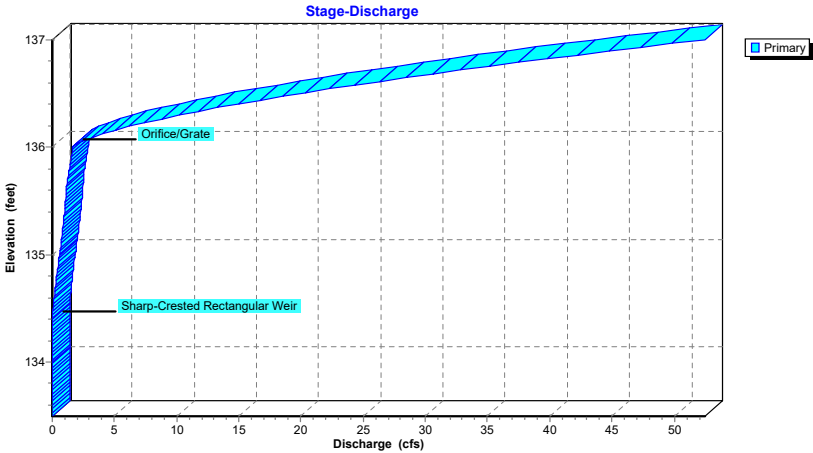
Primary OutFlow Max=7.46 cfs @ 12.16 hrs HW=136.23' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 2.03 cfs @ 4.42 fps)
2=Orifice/Grate (Weir Controls 5.44 cfs @ 1.57 fps)



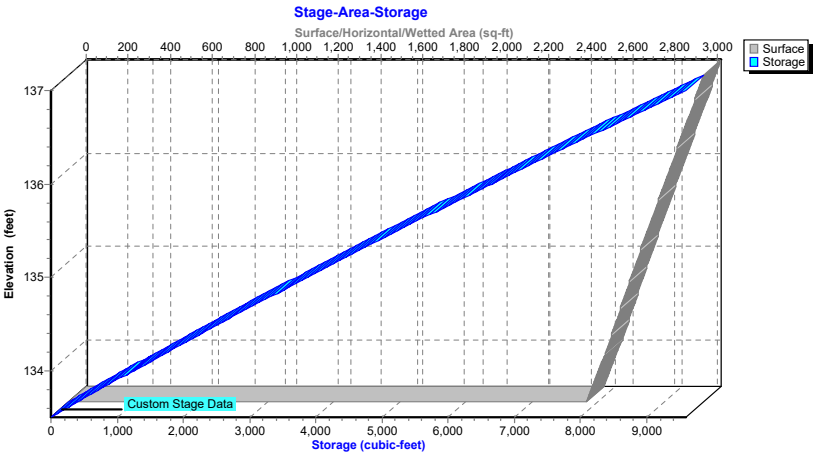
Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.04	157	133.56	0.00
5.00	0.05	559	133.73	0.00
7.50	0.11	1,261	134.00	0.00
10.00	0.28	2,713	134.56	0.10
12.50	2.05	6,794	136.05	2.26
15.00	0.28	3,543	134.88	0.43
17.50	0.17	2,987	134.67	0.20
20.00	0.13	2,826	134.61	0.14
22.50	0.11	2,759	134.58	0.12
25.00	0.00	2,513	134.49	0.04
27.50	0.00	2,350	134.43	0.01
30.00	0.00	2,313	134.41	0.00
32.50	0.00	2,301	134.41	0.00
35.00	0.00	2,294	134.40	0.00
37.50	0.00	2,290	134.40	0.00
40.00	0.00	2,287	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,285	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

Inflow Area = 0.800 ac, 88.75% Impervious, Inflow Depth = 8.18" for 100-Year-Current event
 Inflow = 7.72 cfs @ 12.07 hrs, Volume= 0.545 af
 Outflow = 1.14 cfs @ 12.53 hrs, Volume= 0.523 af, Atten= 85%, Lag= 27.6 min
 Primary = 1.14 cfs @ 12.53 hrs, Volume= 0.523 af
 Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 135.49' @ 12.53 hrs Surf.Area= 9,150 sf Storage= 12,592 cf

Plug-Flow detention time= 357.6 min calculated for 0.523 af (96% of inflow)
 Center-of-Mass det. time= 334.5 min (1,076.9 - 742.4)

Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below 41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1 L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1 L= 502.0'
		16,662 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175

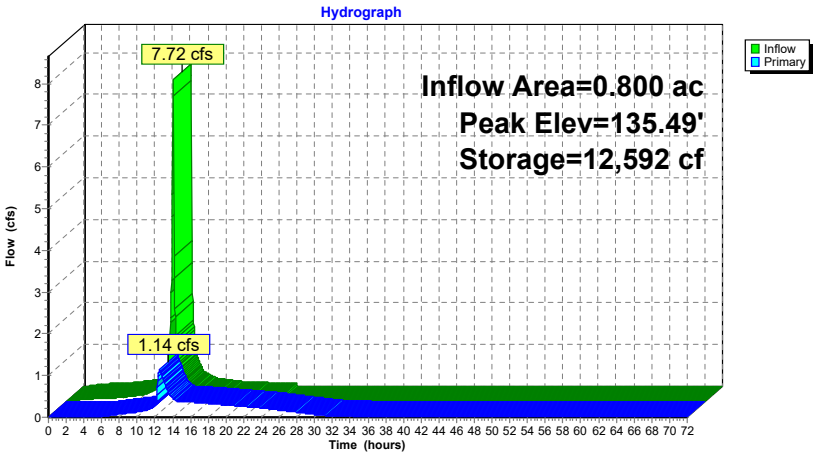
Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)

Primary OutFlow Max=1.14 cfs @ 12.53 hrs HW=135.49' (Free Discharge)
 1=Orifice/Grate (Orifice Controls 0.41 cfs @ 8.36 fps)
 2=Sharp-Crested Rectangular Weir (Weir Controls 0.73 cfs @ 2.03 fps)

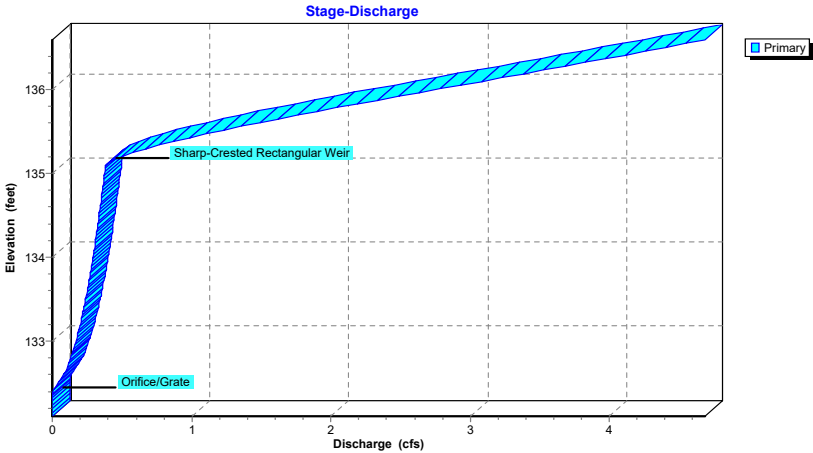


Orifice/Grate

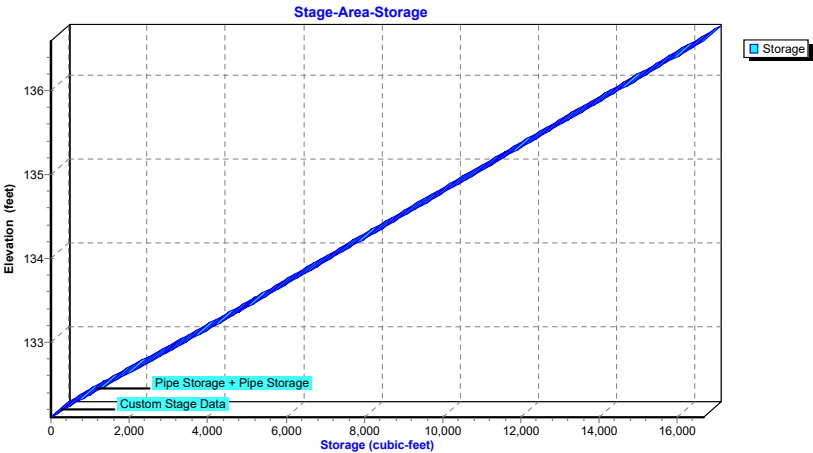
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.06	267	132.17	0.00
5.00	0.09	932	132.35	0.00
7.50	0.14	1,667	132.54	0.06
10.00	0.28	2,514	132.76	0.13
12.50	1.36	12,584	135.49	1.13
15.00	0.20	10,923	135.03	0.38
17.50	0.13	9,143	134.55	0.34
20.00	0.10	7,261	134.03	0.29
22.50	0.08	5,622	133.58	0.25
25.00	0.00	4,030	133.15	0.19
27.50	0.00	2,574	132.77	0.13
30.00	0.00	1,698	132.55	0.07
32.50	0.00	1,334	132.46	0.02
35.00	0.00	1,187	132.42	0.01
37.50	0.00	1,112	132.40	0.01
40.00	0.00	1,064	132.39	0.00
42.50	0.00	1,032	132.38	0.00
45.00	0.00	1,011	132.38	0.00
47.50	0.00	997	132.37	0.00
50.00	0.00	988	132.37	0.00
52.50	0.00	981	132.37	0.00
55.00	0.00	974	132.37	0.00
57.50	0.00	968	132.36	0.00
60.00	0.00	963	132.36	0.00
62.50	0.00	958	132.36	0.00
65.00	0.00	954	132.36	0.00
67.50	0.00	950	132.36	0.00
70.00	0.00	946	132.36	0.00

Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

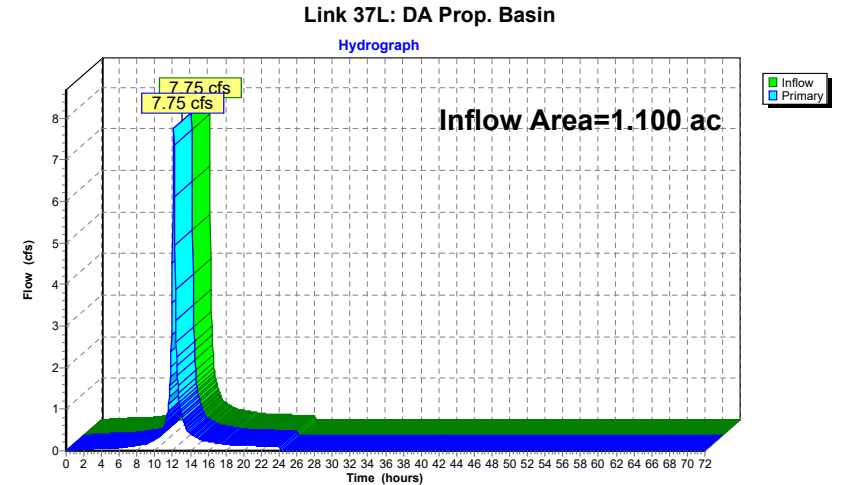
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 7.10" for 100-Year-Current event
Inflow = 7.75 cfs @ 12.12 hrs, Volume= 0.650 af
Primary = 7.75 cfs @ 12.12 hrs, Volume= 0.650 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.01	0.00	0.01	53.00	0.00	0.00	0.00
2.00	0.03	0.00	0.03	54.00	0.00	0.00	0.00
3.00	0.04	0.00	0.04	55.00	0.00	0.00	0.00
4.00	0.05	0.00	0.05	56.00	0.00	0.00	0.00
5.00	0.05	0.00	0.05	57.00	0.00	0.00	0.00
6.00	0.07	0.00	0.07	58.00	0.00	0.00	0.00
7.00	0.10	0.00	0.10	59.00	0.00	0.00	0.00
8.00	0.13	0.00	0.13	60.00	0.00	0.00	0.00
9.00	0.17	0.00	0.17	61.00	0.00	0.00	0.00
10.00	0.28	0.00	0.28	62.00	0.00	0.00	0.00
11.00	0.55	0.00	0.55	63.00	0.00	0.00	0.00
12.00	4.52	0.00	4.52	64.00	0.00	0.00	0.00
13.00	0.89	0.00	0.89	65.00	0.00	0.00	0.00
14.00	0.42	0.00	0.42	66.00	0.00	0.00	0.00
15.00	0.28	0.00	0.28	67.00	0.00	0.00	0.00
16.00	0.23	0.00	0.23	68.00	0.00	0.00	0.00
17.00	0.19	0.00	0.19	69.00	0.00	0.00	0.00
18.00	0.15	0.00	0.15	70.00	0.00	0.00	0.00
19.00	0.14	0.00	0.14	71.00	0.00	0.00	0.00
20.00	0.13	0.00	0.13	72.00	0.00	0.00	0.00
21.00	0.12	0.00	0.12				
22.00	0.11	0.00	0.11				
23.00	0.10	0.00	0.10				
24.00	0.11	0.00	0.11				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

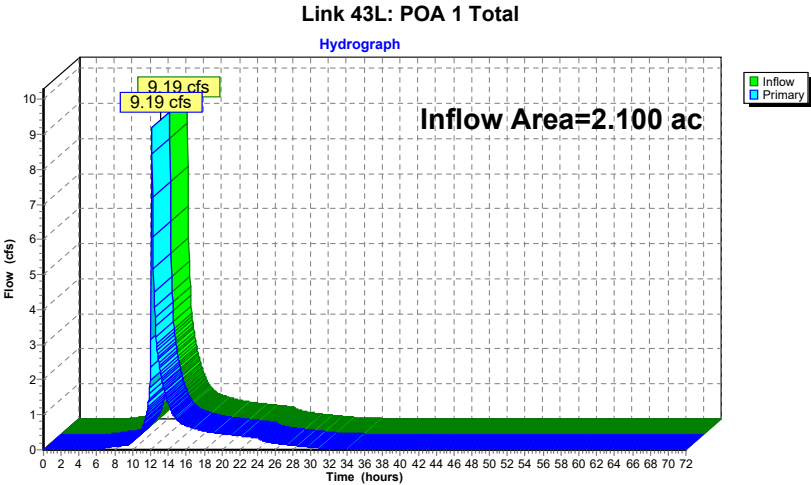
Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth = 7.03" for 100-Year-Current event

Inflow = 9.19 cfs @ 12.16 hrs, Volume= 1.231 af

Primary = 9.19 cfs @ 12.16 hrs, Volume= 1.231 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



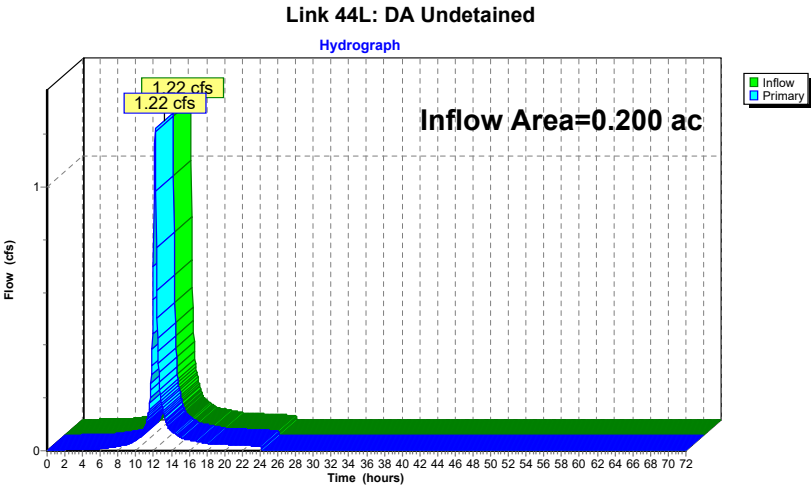
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.02	0.00	0.02	58.00	0.00	0.00	0.00
7.00	0.06	0.00	0.06	59.00	0.00	0.00	0.00
8.00	0.09	0.00	0.09	60.00	0.00	0.00	0.00
9.00	0.12	0.00	0.12	61.00	0.00	0.00	0.00
10.00	0.27	0.00	0.27	62.00	0.00	0.00	0.00
11.00	0.59	0.00	0.59	63.00	0.00	0.00	0.00
12.00	2.35	0.00	2.35	64.00	0.00	0.00	0.00
13.00	2.40	0.00	2.40	65.00	0.00	0.00	0.00
14.00	1.32	0.00	1.32	66.00	0.00	0.00	0.00
15.00	0.86	0.00	0.86	67.00	0.00	0.00	0.00
16.00	0.69	0.00	0.69	68.00	0.00	0.00	0.00
17.00	0.61	0.00	0.61	69.00	0.00	0.00	0.00
18.00	0.54	0.00	0.54	70.00	0.00	0.00	0.00
19.00	0.49	0.00	0.49	71.00	0.00	0.00	0.00
20.00	0.46	0.00	0.46	72.00	0.00	0.00	0.00
21.00	0.43	0.00	0.43				
22.00	0.40	0.00	0.40				
23.00	0.37	0.00	0.37				
24.00	0.34	0.00	0.34				
25.00	0.24	0.00	0.24				
26.00	0.19	0.00	0.19				
27.00	0.15	0.00	0.15				
28.00	0.12	0.00	0.12				
29.00	0.09	0.00	0.09				
30.00	0.07	0.00	0.07				
31.00	0.04	0.00	0.04				
32.00	0.03	0.00	0.03				
33.00	0.02	0.00	0.02				
34.00	0.02	0.00	0.02				
35.00	0.01	0.00	0.01				
36.00	0.01	0.00	0.01				
37.00	0.01	0.00	0.01				
38.00	0.01	0.00	0.01				
39.00	0.01	0.00	0.01				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 6.57" for 100-Year-Current event
Inflow = 1.22 cfs @ 12.17 hrs, Volume= 0.110 af
Primary = 1.22 cfs @ 12.17 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.01	0.00	0.01	58.00	0.00	0.00	0.00
7.00	0.01	0.00	0.01	59.00	0.00	0.00	0.00
8.00	0.02	0.00	0.02	60.00	0.00	0.00	0.00
9.00	0.02	0.00	0.02	61.00	0.00	0.00	0.00
10.00	0.04	0.00	0.04	62.00	0.00	0.00	0.00
11.00	0.09	0.00	0.09	63.00	0.00	0.00	0.00
12.00	0.70	0.00	0.70	64.00	0.00	0.00	0.00
13.00	0.16	0.00	0.16	65.00	0.00	0.00	0.00
14.00	0.07	0.00	0.07	66.00	0.00	0.00	0.00
15.00	0.05	0.00	0.05	67.00	0.00	0.00	0.00
16.00	0.04	0.00	0.04	68.00	0.00	0.00	0.00
17.00	0.03	0.00	0.03	69.00	0.00	0.00	0.00
18.00	0.03	0.00	0.03	70.00	0.00	0.00	0.00
19.00	0.03	0.00	0.03	71.00	0.00	0.00	0.00
20.00	0.02	0.00	0.02	72.00	0.00	0.00	0.00
21.00	0.02	0.00	0.02				
22.00	0.02	0.00	0.02				
23.00	0.02	0.00	0.02				
24.00	0.02	0.00	0.02				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=11.09" Flow Length=469' Tc=3.6 min CN=98 Runoff=5.52 cfs 0.397 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=8.80" Flow Length=398' Tc=9.9 min CN=80 Runoff=6.27 cfs 0.491 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=11.09" Flow Length=130' Slope=0.0150 '/' Tc=1.4 min CN=98 Runoff=9.48 cfs 0.656 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=8.80" Flow Length=44' Slope=0.0200 '/' Tc=6.8 min CN=80 Runoff=0.94 cfs 0.066 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=11.09" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.40 cfs 0.028 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=8.80" Flow Length=224' Slope=0.0200 '/' Tc=9.7 min CN=80 Runoff=1.60 cfs 0.125 af
Pond 44P: Prop. Basin	Peak Elev=136.31' Storage=7,538 cf Inflow=10.68 cfs 0.889 af Outflow=10.43 cfs 0.836 af
Pond 45P: Pervious Pavement	Peak Elev=136.05' Storage=14,636 cf Inflow=10.18 cfs 0.722 af Outflow=2.89 cfs 0.700 af
Link 37L: DA Prop. Basin	Inflow=10.68 cfs 0.889 af Primary=10.68 cfs 0.889 af
Link 43L: POA 1 Total	Inflow=14.70 cfs 1.689 af Primary=14.70 cfs 1.689 af
Link 44L: DA Undetained	Inflow=1.74 cfs 0.152 af Primary=1.74 cfs 0.152 af

Total Runoff Area = 2.100 ac Runoff Volume = 1.763 af Average Runoff Depth = 10.07"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt
[47] Hint: Peak is 112% of capacity of segment #3

Runoff = 5.52 cfs @ 12.09 hrs, Volume= 0.397 af, Depth=11.09"
Routed to Link 37L : DA Prop. Basin

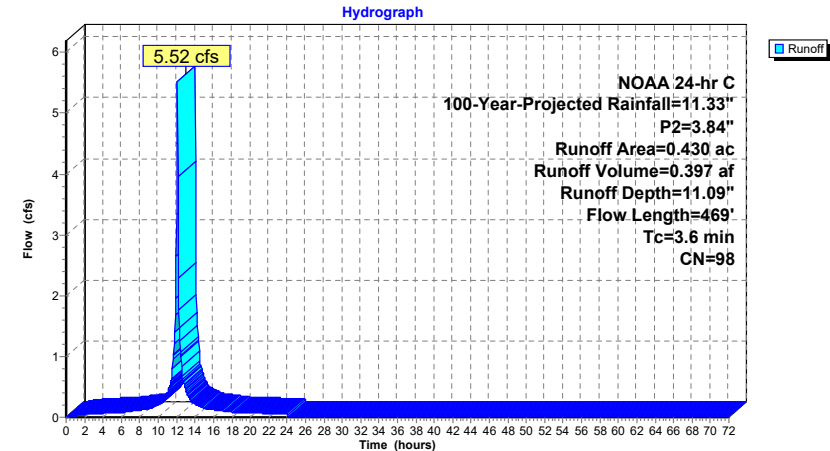
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.430	98	Paved parking, HSG B
0.430		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0070	0.99		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.8	97	0.0100	2.03		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.6	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	11.09	0.00
1.00	0.12	0.02	0.03	53.00	11.33	11.09	0.00
2.00	0.26	0.11	0.04	54.00	11.33	11.09	0.00
3.00	0.40	0.23	0.06	55.00	11.33	11.09	0.00
4.00	0.55	0.37	0.06	56.00	11.33	11.09	0.00
5.00	0.72	0.52	0.07	57.00	11.33	11.09	0.00
6.00	0.90	0.69	0.08	58.00	11.33	11.09	0.00
7.00	1.11	0.89	0.10	59.00	11.33	11.09	0.00
8.00	1.36	1.14	0.12	60.00	11.33	11.09	0.00
9.00	1.65	1.43	0.14	61.00	11.33	11.09	0.00
10.00	2.07	1.84	0.21	62.00	11.33	11.09	0.00
11.00	2.72	2.49	0.39	63.00	11.33	11.09	0.00
12.00	5.40	5.16	3.33	64.00	11.33	11.09	0.00
13.00	8.61	8.37	0.45	65.00	11.33	11.09	0.00
14.00	9.26	9.02	0.22	66.00	11.33	11.09	0.00
15.00	9.68	9.43	0.15	67.00	11.33	11.09	0.00
16.00	9.97	9.73	0.12	68.00	11.33	11.09	0.00
17.00	10.22	9.98	0.10	69.00	11.33	11.09	0.00
18.00	10.43	10.19	0.08	70.00	11.33	11.09	0.00
19.00	10.61	10.37	0.07	71.00	11.33	11.09	0.00
20.00	10.78	10.53	0.07	72.00	11.33	11.09	0.00
21.00	10.93	10.69	0.06				
22.00	11.07	10.83	0.06				
23.00	11.21	10.96	0.06				
24.00	11.33	11.09	0.06				
25.00	11.33	11.09	0.00				
26.00	11.33	11.09	0.00				
27.00	11.33	11.09	0.00				
28.00	11.33	11.09	0.00				
29.00	11.33	11.09	0.00				
30.00	11.33	11.09	0.00				
31.00	11.33	11.09	0.00				
32.00	11.33	11.09	0.00				
33.00	11.33	11.09	0.00				
34.00	11.33	11.09	0.00				
35.00	11.33	11.09	0.00				
36.00	11.33	11.09	0.00				
37.00	11.33	11.09	0.00				
38.00	11.33	11.09	0.00				
39.00	11.33	11.09	0.00				
40.00	11.33	11.09	0.00				
41.00	11.33	11.09	0.00				
42.00	11.33	11.09	0.00				
43.00	11.33	11.09	0.00				
44.00	11.33	11.09	0.00				
45.00	11.33	11.09	0.00				
46.00	11.33	11.09	0.00				
47.00	11.33	11.09	0.00				
48.00	11.33	11.09	0.00				
49.00	11.33	11.09	0.00				
50.00	11.33	11.09	0.00				
51.00	11.33	11.09	0.00				

Summary for Subcatchment 39S: Pervious

[47] Hint: Peak is 127% of capacity of segment #3

Runoff = 6.27 cfs @ 12.17 hrs, Volume= 0.491 af, Depth= 8.80"
Routed to Link 37L : DA Prop. Basin

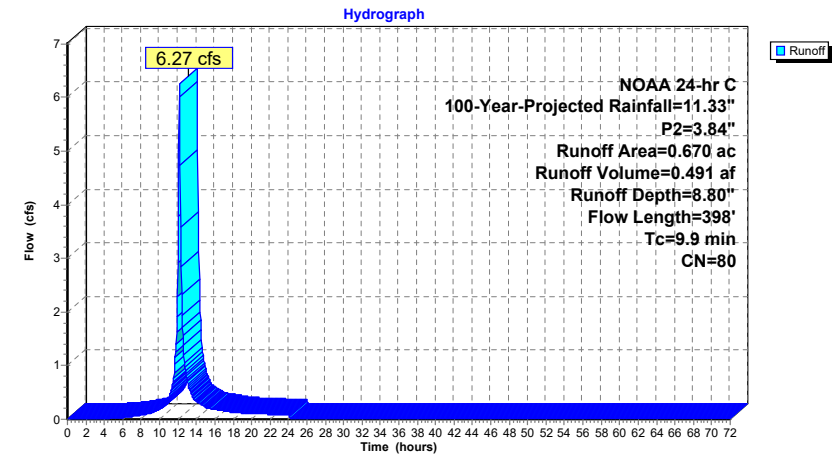
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.670	80	>75% Grass cover, Good, HSG D
0.670		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	72	0.0300	0.14		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	278	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
9.9	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	8.80	0.00
1.00	0.12	0.00	0.00	53.00	11.33	8.80	0.00
2.00	0.26	0.00	0.00	54.00	11.33	8.80	0.00
3.00	0.40	0.00	0.00	55.00	11.33	8.80	0.00
4.00	0.55	0.00	0.00	56.00	11.33	8.80	0.00
5.00	0.72	0.02	0.02	57.00	11.33	8.80	0.00
6.00	0.90	0.05	0.03	58.00	11.33	8.80	0.00
7.00	1.11	0.12	0.05	59.00	11.33	8.80	0.00
8.00	1.36	0.22	0.08	60.00	11.33	8.80	0.00
9.00	1.65	0.36	0.11	61.00	11.33	8.80	0.00
10.00	2.07	0.60	0.19	62.00	11.33	8.80	0.00
11.00	2.72	1.04	0.39	63.00	11.33	8.80	0.00
12.00	5.40	3.24	2.92	64.00	11.33	8.80	0.00
13.00	8.61	6.20	0.73	65.00	11.33	8.80	0.00
14.00	9.26	6.82	0.34	66.00	11.33	8.80	0.00
15.00	9.68	7.21	0.23	67.00	11.33	8.80	0.00
16.00	9.97	7.49	0.18	68.00	11.33	8.80	0.00
17.00	10.22	7.74	0.15	69.00	11.33	8.80	0.00
18.00	10.43	7.93	0.12	70.00	11.33	8.80	0.00
19.00	10.61	8.11	0.11	71.00	11.33	8.80	0.00
20.00	10.78	8.26	0.11	72.00	11.33	8.80	0.00
21.00	10.93	8.41	0.10				
22.00	11.07	8.55	0.09				
23.00	11.21	8.68	0.08				
24.00	11.33	8.80	0.08				
25.00	11.33	8.80	0.00				
26.00	11.33	8.80	0.00				
27.00	11.33	8.80	0.00				
28.00	11.33	8.80	0.00				
29.00	11.33	8.80	0.00				
30.00	11.33	8.80	0.00				
31.00	11.33	8.80	0.00				
32.00	11.33	8.80	0.00				
33.00	11.33	8.80	0.00				
34.00	11.33	8.80	0.00				
35.00	11.33	8.80	0.00				
36.00	11.33	8.80	0.00				
37.00	11.33	8.80	0.00				
38.00	11.33	8.80	0.00				
39.00	11.33	8.80	0.00				
40.00	11.33	8.80	0.00				
41.00	11.33	8.80	0.00				
42.00	11.33	8.80	0.00				
43.00	11.33	8.80	0.00				
44.00	11.33	8.80	0.00				
45.00	11.33	8.80	0.00				
46.00	11.33	8.80	0.00				
47.00	11.33	8.80	0.00				
48.00	11.33	8.80	0.00				
49.00	11.33	8.80	0.00				
50.00	11.33	8.80	0.00				
51.00	11.33	8.80	0.00				

Summary for Subcatchment 46S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 9.48 cfs @ 12.07 hrs, Volume= 0.656 af, Depth=11.09"
Routed to Pond 45P : Pervious Pavement

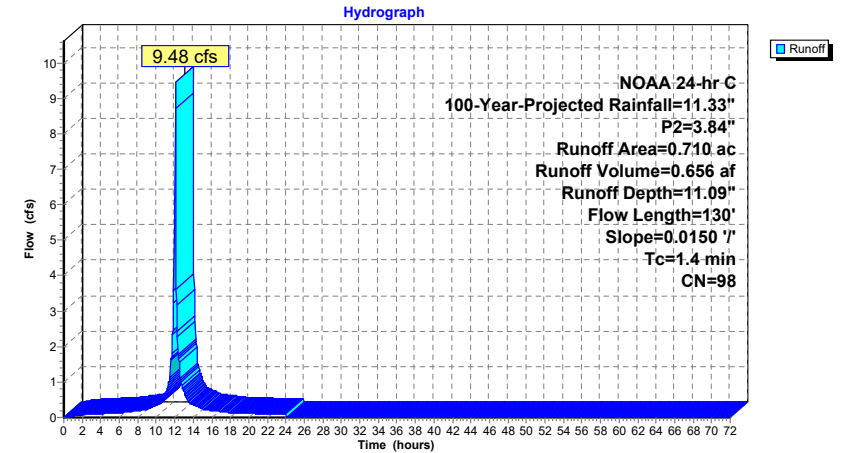
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0150	1.34		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.4	130				Total



Subcatchment 46S: Impervious



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	11.09	0.00
1.00	0.12	0.02	0.04	53.00	11.33	11.09	0.00
2.00	0.26	0.11	0.07	54.00	11.33	11.09	0.00
3.00	0.40	0.23	0.09	55.00	11.33	11.09	0.00
4.00	0.55	0.37	0.11	56.00	11.33	11.09	0.00
5.00	0.72	0.52	0.12	57.00	11.33	11.09	0.00
6.00	0.90	0.69	0.13	58.00	11.33	11.09	0.00
7.00	1.11	0.89	0.16	59.00	11.33	11.09	0.00
8.00	1.36	1.14	0.19	60.00	11.33	11.09	0.00
9.00	1.65	1.43	0.23	61.00	11.33	11.09	0.00
10.00	2.07	1.84	0.35	62.00	11.33	11.09	0.00
11.00	2.72	2.49	0.65	63.00	11.33	11.09	0.00
12.00	5.40	5.16	6.12	64.00	11.33	11.09	0.00
13.00	8.61	8.37	0.72	65.00	11.33	11.09	0.00
14.00	9.26	9.02	0.36	66.00	11.33	11.09	0.00
15.00	9.68	9.43	0.24	67.00	11.33	11.09	0.00
16.00	9.97	9.73	0.20	68.00	11.33	11.09	0.00
17.00	10.22	9.98	0.17	69.00	11.33	11.09	0.00
18.00	10.43	10.19	0.13	70.00	11.33	11.09	0.00
19.00	10.61	10.37	0.12	71.00	11.33	11.09	0.00
20.00	10.78	10.53	0.12	72.00	11.33	11.09	0.00
21.00	10.93	10.69	0.11				
22.00	11.07	10.83	0.10				
23.00	11.21	10.96	0.09				
24.00	11.33	11.09	0.09				
25.00	11.33	11.09	0.00				
26.00	11.33	11.09	0.00				
27.00	11.33	11.09	0.00				
28.00	11.33	11.09	0.00				
29.00	11.33	11.09	0.00				
30.00	11.33	11.09	0.00				
31.00	11.33	11.09	0.00				
32.00	11.33	11.09	0.00				
33.00	11.33	11.09	0.00				
34.00	11.33	11.09	0.00				
35.00	11.33	11.09	0.00				
36.00	11.33	11.09	0.00				
37.00	11.33	11.09	0.00				
38.00	11.33	11.09	0.00				
39.00	11.33	11.09	0.00				
40.00	11.33	11.09	0.00				
41.00	11.33	11.09	0.00				
42.00	11.33	11.09	0.00				
43.00	11.33	11.09	0.00				
44.00	11.33	11.09	0.00				
45.00	11.33	11.09	0.00				
46.00	11.33	11.09	0.00				
47.00	11.33	11.09	0.00				
48.00	11.33	11.09	0.00				
49.00	11.33	11.09	0.00				
50.00	11.33	11.09	0.00				
51.00	11.33	11.09	0.00				

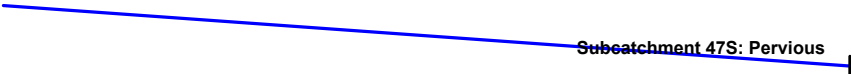
Summary for Subcatchment 47S: Pervious

Runoff = 0.94 cfs @ 12.14 hrs, Volume= 0.066 af, Depth= 8.80"
Routed to Pond 45P : Pervious Pavement

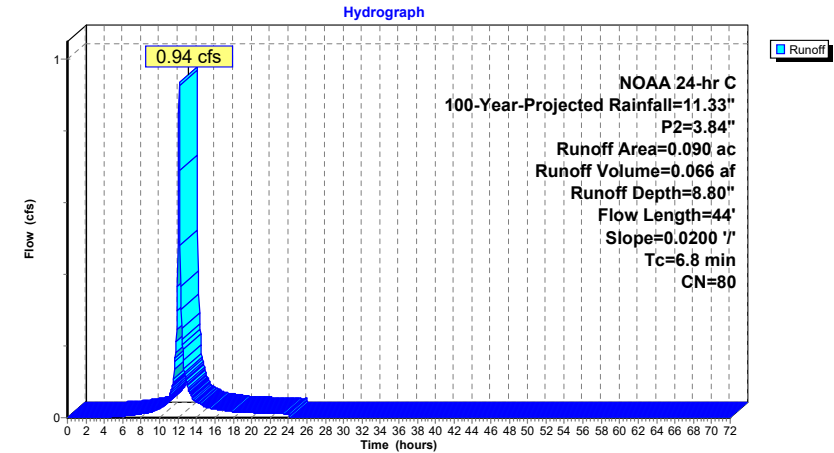
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	44	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	8.80	0.00
1.00	0.12	0.00	0.00	53.00	11.33	8.80	0.00
2.00	0.26	0.00	0.00	54.00	11.33	8.80	0.00
3.00	0.40	0.00	0.00	55.00	11.33	8.80	0.00
4.00	0.55	0.00	0.00	56.00	11.33	8.80	0.00
5.00	0.72	0.02	0.00	57.00	11.33	8.80	0.00
6.00	0.90	0.05	0.00	58.00	11.33	8.80	0.00
7.00	1.11	0.12	0.01	59.00	11.33	8.80	0.00
8.00	1.36	0.22	0.01	60.00	11.33	8.80	0.00
9.00	1.65	0.36	0.01	61.00	11.33	8.80	0.00
10.00	2.07	0.60	0.03	62.00	11.33	8.80	0.00
11.00	2.72	1.04	0.06	63.00	11.33	8.80	0.00
12.00	5.40	3.24	0.49	64.00	11.33	8.80	0.00
13.00	8.61	6.20	0.09	65.00	11.33	8.80	0.00
14.00	9.26	6.82	0.04	66.00	11.33	8.80	0.00
15.00	9.68	7.21	0.03	67.00	11.33	8.80	0.00
16.00	9.97	7.49	0.02	68.00	11.33	8.80	0.00
17.00	10.22	7.74	0.02	69.00	11.33	8.80	0.00
18.00	10.43	7.93	0.02	70.00	11.33	8.80	0.00
19.00	10.61	8.11	0.02	71.00	11.33	8.80	0.00
20.00	10.78	8.26	0.01	72.00	11.33	8.80	0.00
21.00	10.93	8.41	0.01				
22.00	11.07	8.55	0.01				
23.00	11.21	8.68	0.01				
24.00	11.33	8.80	0.01				
25.00	11.33	8.80	0.00				
26.00	11.33	8.80	0.00				
27.00	11.33	8.80	0.00				
28.00	11.33	8.80	0.00				
29.00	11.33	8.80	0.00				
30.00	11.33	8.80	0.00				
31.00	11.33	8.80	0.00				
32.00	11.33	8.80	0.00				
33.00	11.33	8.80	0.00				
34.00	11.33	8.80	0.00				
35.00	11.33	8.80	0.00				
36.00	11.33	8.80	0.00				
37.00	11.33	8.80	0.00				
38.00	11.33	8.80	0.00				
39.00	11.33	8.80	0.00				
40.00	11.33	8.80	0.00				
41.00	11.33	8.80	0.00				
42.00	11.33	8.80	0.00				
43.00	11.33	8.80	0.00				
44.00	11.33	8.80	0.00				
45.00	11.33	8.80	0.00				
46.00	11.33	8.80	0.00				
47.00	11.33	8.80	0.00				
48.00	11.33	8.80	0.00				
49.00	11.33	8.80	0.00				
50.00	11.33	8.80	0.00				
51.00	11.33	8.80	0.00				

Summary for Subcatchment 48S: Impervious

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.40 cfs @ 12.07 hrs, Volume= 0.028 af, Depth=11.09"
Routed to Link 44L : DA Undetained

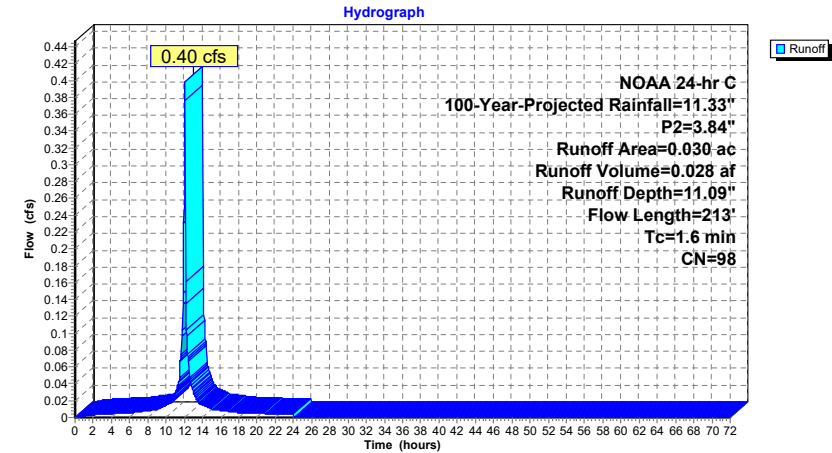
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.74		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.84"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Subcatchment 48S: Impervious



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
1.00	0.12	0.02	0.00
2.00	0.26	0.11	0.00
3.00	0.40	0.23	0.00
4.00	0.55	0.37	0.00
5.00	0.72	0.52	0.00
6.00	0.90	0.69	0.01
7.00	1.11	0.89	0.01
8.00	1.36	1.14	0.01
9.00	1.65	1.43	0.01
10.00	2.07	1.84	0.01
11.00	2.72	2.49	0.03
12.00	5.40	5.16	0.25
13.00	8.61	8.37	0.03
14.00	9.26	9.02	0.02
15.00	9.68	9.43	0.01
16.00	9.97	9.73	0.01
17.00	10.22	9.98	0.01
18.00	10.43	10.19	0.01
19.00	10.61	10.37	0.01
20.00	10.78	10.53	0.00
21.00	10.93	10.69	0.00
22.00	11.07	10.83	0.00
23.00	11.21	10.96	0.00
24.00	11.33	11.09	0.00
25.00	11.33	11.09	0.00
26.00	11.33	11.09	0.00
27.00	11.33	11.09	0.00
28.00	11.33	11.09	0.00
29.00	11.33	11.09	0.00
30.00	11.33	11.09	0.00
31.00	11.33	11.09	0.00
32.00	11.33	11.09	0.00
33.00	11.33	11.09	0.00
34.00	11.33	11.09	0.00
35.00	11.33	11.09	0.00
36.00	11.33	11.09	0.00
37.00	11.33	11.09	0.00
38.00	11.33	11.09	0.00
39.00	11.33	11.09	0.00
40.00	11.33	11.09	0.00
41.00	11.33	11.09	0.00
42.00	11.33	11.09	0.00
43.00	11.33	11.09	0.00
44.00	11.33	11.09	0.00
45.00	11.33	11.09	0.00
46.00	11.33	11.09	0.00
47.00	11.33	11.09	0.00
48.00	11.33	11.09	0.00
49.00	11.33	11.09	0.00
50.00	11.33	11.09	0.00
51.00	11.33	11.09	0.00

Summary for Subcatchment 49S: Pervious

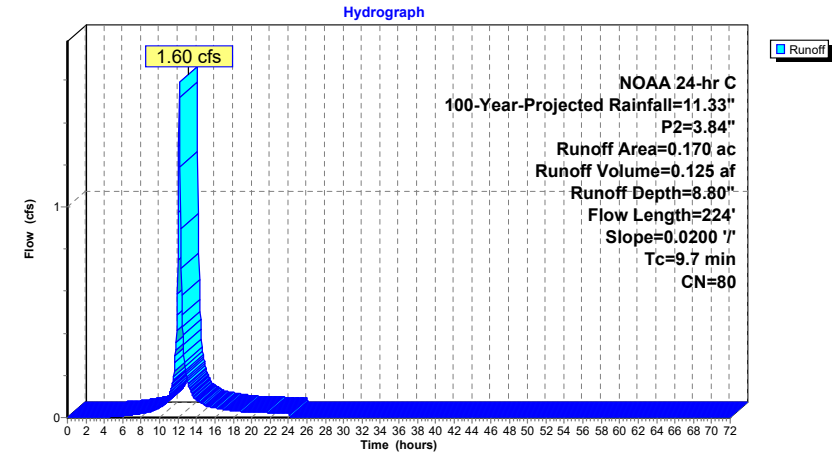
Runoff = 1.60 cfs @ 12.17 hrs, Volume= 0.125 af, Depth= 8.80"
Routed to Link 44L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 100-Year-Projected Rainfall=11.33", P2=3.84"

Area (ac)	CN	Description				
0.170	80	>75% Grass cover, Good, HSG D				
0.170		100.00% Pervious Area				
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
8.5	59	0.0200	0.12		Sheet Flow, Grass: Dense n= 0.240 P2= 3.84" Using McCuen-Spiess flow length Shallow Concentrated Flow, Unpaved Kv= 16.1 fps	
1.2	165	0.0200	2.28			
9.7	224	Total				



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	11.33	8.80	0.00
1.00	0.12	0.00	0.00	53.00	11.33	8.80	0.00
2.00	0.26	0.00	0.00	54.00	11.33	8.80	0.00
3.00	0.40	0.00	0.00	55.00	11.33	8.80	0.00
4.00	0.55	0.00	0.00	56.00	11.33	8.80	0.00
5.00	0.72	0.02	0.00	57.00	11.33	8.80	0.00
6.00	0.90	0.05	0.01	58.00	11.33	8.80	0.00
7.00	1.11	0.12	0.01	59.00	11.33	8.80	0.00
8.00	1.36	0.22	0.02	60.00	11.33	8.80	0.00
9.00	1.65	0.36	0.03	61.00	11.33	8.80	0.00
10.00	2.07	0.60	0.05	62.00	11.33	8.80	0.00
11.00	2.72	1.04	0.10	63.00	11.33	8.80	0.00
12.00	5.40	3.24	0.75	64.00	11.33	8.80	0.00
13.00	8.61	6.20	0.18	65.00	11.33	8.80	0.00
14.00	9.26	6.82	0.08	66.00	11.33	8.80	0.00
15.00	9.68	7.21	0.06	67.00	11.33	8.80	0.00
16.00	9.97	7.49	0.05	68.00	11.33	8.80	0.00
17.00	10.22	7.74	0.04	69.00	11.33	8.80	0.00
18.00	10.43	7.93	0.03	70.00	11.33	8.80	0.00
19.00	10.61	8.11	0.03	71.00	11.33	8.80	0.00
20.00	10.78	8.26	0.03	72.00	11.33	8.80	0.00
21.00	10.93	8.41	0.02				
22.00	11.07	8.55	0.02				
23.00	11.21	8.68	0.02				
24.00	11.33	8.80	0.02				
25.00	11.33	8.80	0.00				
26.00	11.33	8.80	0.00				
27.00	11.33	8.80	0.00				
28.00	11.33	8.80	0.00				
29.00	11.33	8.80	0.00				
30.00	11.33	8.80	0.00				
31.00	11.33	8.80	0.00				
32.00	11.33	8.80	0.00				
33.00	11.33	8.80	0.00				
34.00	11.33	8.80	0.00				
35.00	11.33	8.80	0.00				
36.00	11.33	8.80	0.00				
37.00	11.33	8.80	0.00				
38.00	11.33	8.80	0.00				
39.00	11.33	8.80	0.00				
40.00	11.33	8.80	0.00				
41.00	11.33	8.80	0.00				
42.00	11.33	8.80	0.00				
43.00	11.33	8.80	0.00				
44.00	11.33	8.80	0.00				
45.00	11.33	8.80	0.00				
46.00	11.33	8.80	0.00				
47.00	11.33	8.80	0.00				
48.00	11.33	8.80	0.00				
49.00	11.33	8.80	0.00				
50.00	11.33	8.80	0.00				
51.00	11.33	8.80	0.00				

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 9.69" for 100-Year-Projected event
Inflow = 10.68 cfs @ 12.12 hrs, Volume= 0.889 af
Outflow = 10.43 cfs @ 12.14 hrs, Volume= 0.836 af, Atten= 2%, Lag= 1.6 min
Primary = 10.43 cfs @ 12.14 hrs, Volume= 0.836 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.31' @ 12.14 hrs Surf.Area= 2,909 sf Storage= 7,538 cf

Plug-Flow detention time= 99.9 min calculated for 0.836 af (94% of inflow)
Center-of-Mass det. time= 65.1 min (834.4 - 769.3)

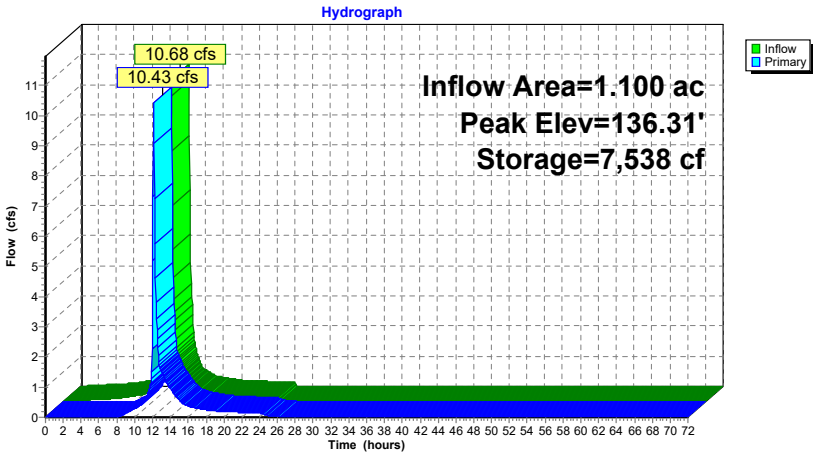
Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

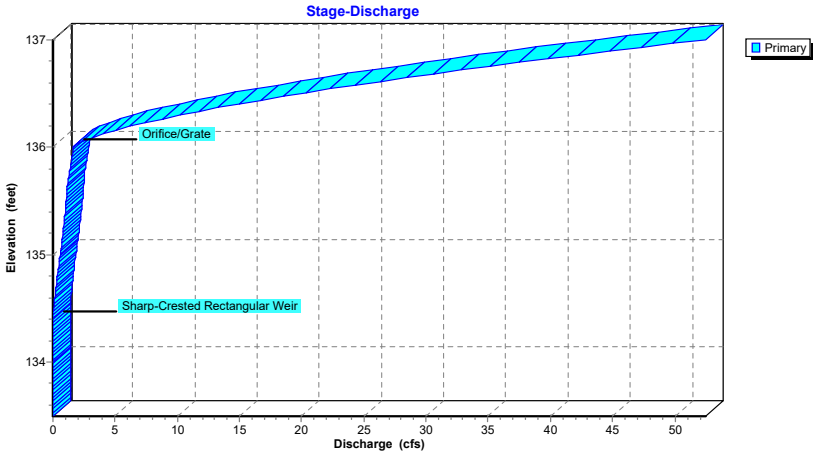
Primary OutFlow Max=10.30 cfs @ 12.14 hrs HW=136.30' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Weir Controls 2.15 cfs @ 4.51 fps)
2=Orifice/Grate (Weir Controls 8.16 cfs @ 1.80 fps)

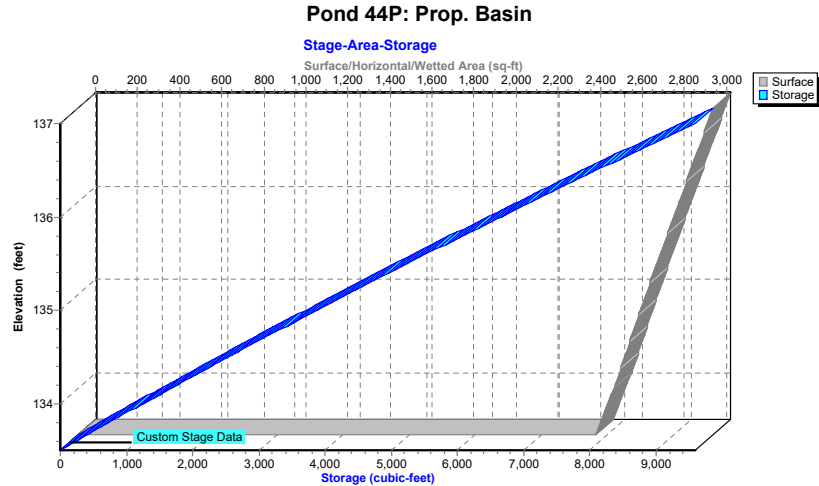


Pond 44P: Prop. Basin



Pond 44P: Prop. Basin





Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.05	250	133.60	0.00
5.00	0.09	836	133.84	0.00
7.50	0.17	1,917	134.26	0.00
10.00	0.40	3,207	134.75	0.29
12.50	2.70	6,886	136.08	2.90
15.00	0.37	3,858	134.99	0.57
17.50	0.23	3,146	134.73	0.27
20.00	0.18	2,946	134.65	0.19
22.50	0.14	2,862	134.62	0.15
25.00	0.00	2,549	134.50	0.05
27.50	0.00	2,357	134.43	0.01
30.00	0.00	2,315	134.41	0.00
32.50	0.00	2,301	134.41	0.00
35.00	0.00	2,294	134.40	0.00
37.50	0.00	2,290	134.40	0.00
40.00	0.00	2,288	134.40	0.00
42.50	0.00	2,286	134.40	0.00
45.00	0.00	2,286	134.40	0.00
47.50	0.00	2,285	134.40	0.00
50.00	0.00	2,285	134.40	0.00
52.50	0.00	2,285	134.40	0.00
55.00	0.00	2,285	134.40	0.00
57.50	0.00	2,285	134.40	0.00
60.00	0.00	2,285	134.40	0.00
62.50	0.00	2,285	134.40	0.00
65.00	0.00	2,285	134.40	0.00
67.50	0.00	2,285	134.40	0.00
70.00	0.00	2,285	134.40	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

Inflow Area = 0.800 ac, 88.75% Impervious, Inflow Depth = 10.83" for 100-Year-Projected event
Inflow = 10.18 cfs @ 12.07 hrs, Volume= 0.722 af
Outflow = 2.89 cfs @ 12.27 hrs, Volume= 0.700 af, Atten= 72%, Lag= 11.8 min
Primary = 2.89 cfs @ 12.27 hrs, Volume= 0.700 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 136.05' @ 12.27 hrs Surf.Area= 9,150 sf Storage= 14,636 cf

Plug-Flow detention time= 305.3 min calculated for 0.700 af (97% of inflow)
Center-of-Mass det. time= 285.9 min (1,025.0 - 739.1)

Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below 41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1 L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1 L= 502.0'
		16,662 cf	Total Available Storage

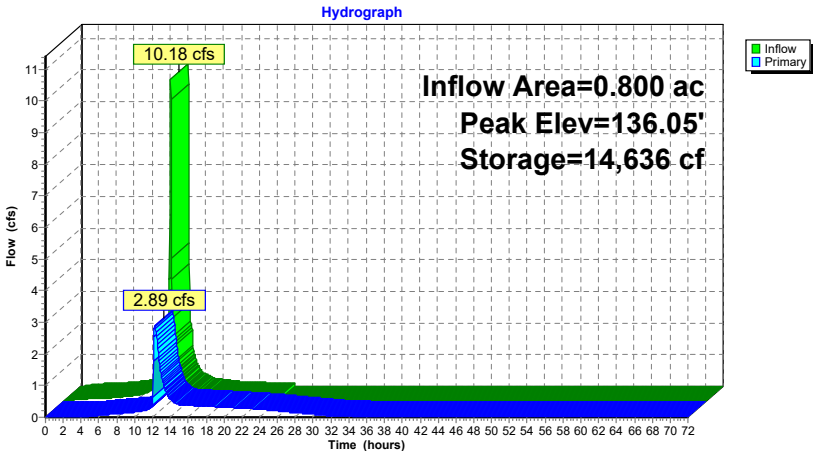
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175

Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)

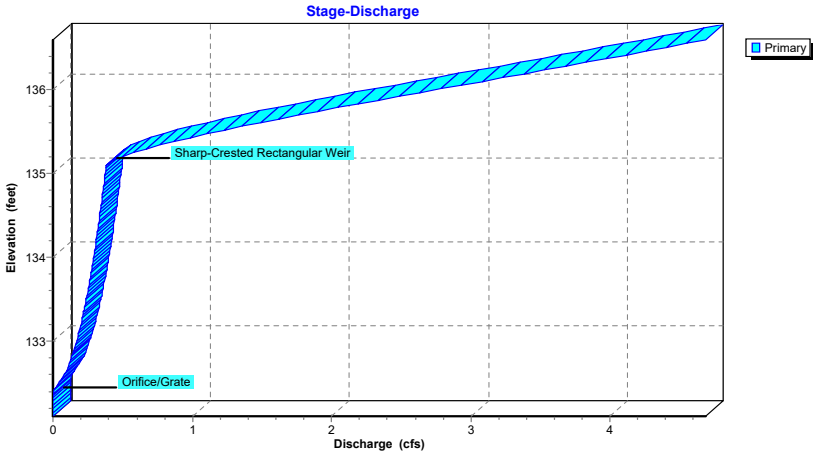
Primary OutFlow Max=2.88 cfs @ 12.27 hrs HW=136.04' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.45 cfs @ 9.09 fps)
2=Sharp-Crested Rectangular Weir (Weir Controls 2.43 cfs @ 3.18 fps)



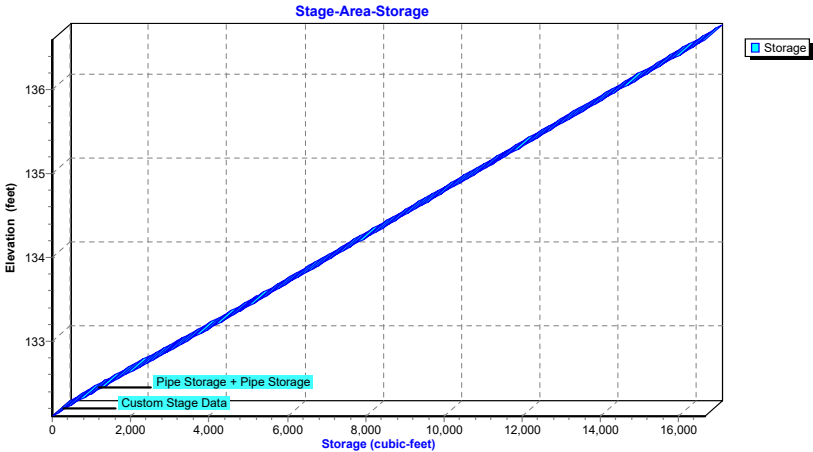
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.08	423	132.22	0.00
5.00	0.12	1,312	132.45	0.02
7.50	0.18	2,052	132.64	0.10
10.00	0.37	3,182	132.93	0.16
12.50	1.77	14,147	135.91	2.45
15.00	0.27	11,229	135.12	0.39
17.50	0.17	9,807	134.73	0.35
20.00	0.13	8,071	134.25	0.32
22.50	0.11	6,479	133.82	0.27
25.00	0.00	4,779	133.35	0.22
27.50	0.00	3,086	132.91	0.16
30.00	0.00	1,979	132.62	0.09
32.50	0.00	1,438	132.49	0.03
35.00	0.00	1,233	132.43	0.01
37.50	0.00	1,138	132.41	0.01
40.00	0.00	1,081	132.39	0.01
42.50	0.00	1,043	132.38	0.00
45.00	0.00	1,019	132.38	0.00
47.50	0.00	1,002	132.37	0.00
50.00	0.00	991	132.37	0.00
52.50	0.00	984	132.37	0.00
55.00	0.00	977	132.37	0.00
57.50	0.00	970	132.36	0.00
60.00	0.00	965	132.36	0.00
62.50	0.00	960	132.36	0.00
65.00	0.00	955	132.36	0.00
67.50	0.00	951	132.36	0.00
70.00	0.00	947	132.36	0.00

Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

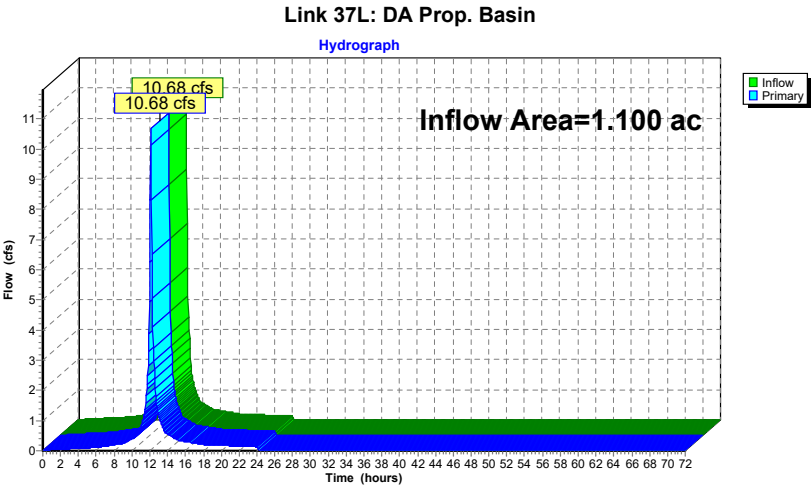
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 9.69" for 100-Year-Projected event
Inflow = 10.68 cfs @ 12.12 hrs, Volume= 0.889 af
Primary = 10.68 cfs @ 12.12 hrs, Volume= 0.889 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



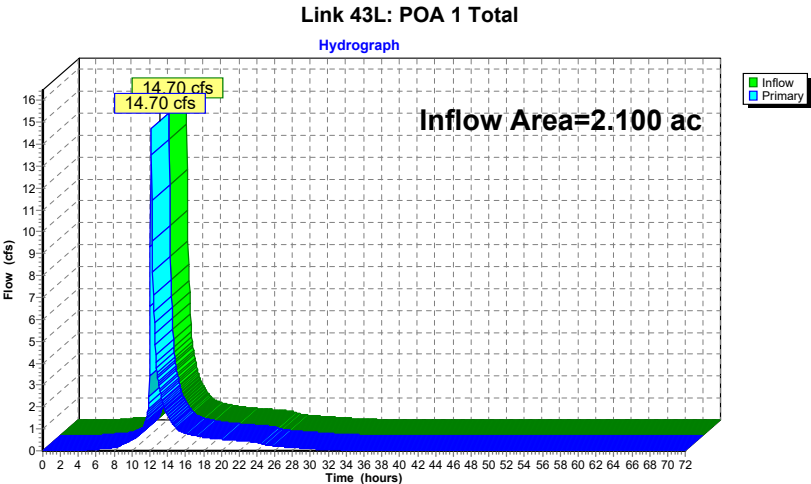
Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.03	0.00	0.03	53.00	0.00	0.00	0.00
2.00	0.04	0.00	0.04	54.00	0.00	0.00	0.00
3.00	0.06	0.00	0.06	55.00	0.00	0.00	0.00
4.00	0.07	0.00	0.07	56.00	0.00	0.00	0.00
5.00	0.09	0.00	0.09	57.00	0.00	0.00	0.00
6.00	0.11	0.00	0.11	58.00	0.00	0.00	0.00
7.00	0.15	0.00	0.15	59.00	0.00	0.00	0.00
8.00	0.19	0.00	0.19	60.00	0.00	0.00	0.00
9.00	0.25	0.00	0.25	61.00	0.00	0.00	0.00
10.00	0.40	0.00	0.40	62.00	0.00	0.00	0.00
11.00	0.78	0.00	0.78	63.00	0.00	0.00	0.00
12.00	6.25	0.00	6.25	64.00	0.00	0.00	0.00
13.00	1.18	0.00	1.18	65.00	0.00	0.00	0.00
14.00	0.55	0.00	0.55	66.00	0.00	0.00	0.00
15.00	0.37	0.00	0.37	67.00	0.00	0.00	0.00
16.00	0.30	0.00	0.30	68.00	0.00	0.00	0.00
17.00	0.25	0.00	0.25	69.00	0.00	0.00	0.00
18.00	0.21	0.00	0.21	70.00	0.00	0.00	0.00
19.00	0.19	0.00	0.19	71.00	0.00	0.00	0.00
20.00	0.18	0.00	0.18	72.00	0.00	0.00	0.00
21.00	0.16	0.00	0.16				
22.00	0.15	0.00	0.15				
23.00	0.14	0.00	0.14				
24.00	0.14	0.00	0.14				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth = 9.65" for 100-Year-Projected event
Inflow = 14.70 cfs @ 12.15 hrs, Volume= 1.689 af
Primary = 14.70 cfs @ 12.15 hrs, Volume= 1.689 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



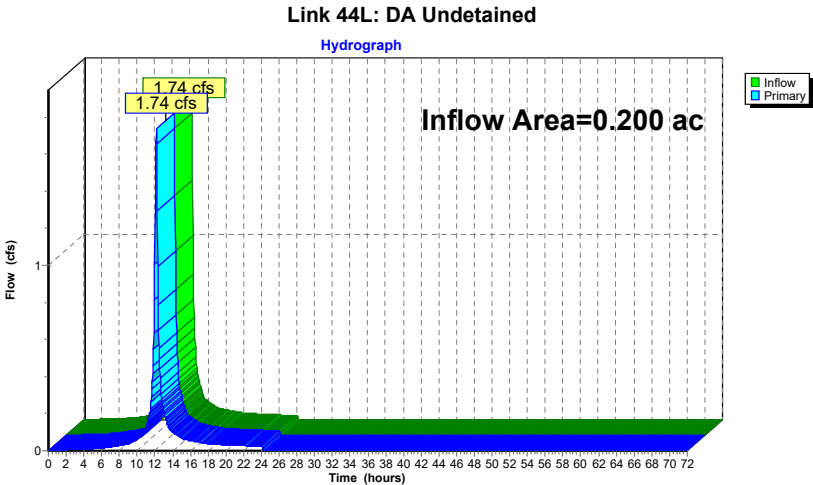
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.01	0.00	0.01	56.00	0.00	0.00	0.00
5.00	0.03	0.00	0.03	57.00	0.00	0.00	0.00
6.00	0.07	0.00	0.07	58.00	0.00	0.00	0.00
7.00	0.10	0.00	0.10	59.00	0.00	0.00	0.00
8.00	0.14	0.00	0.14	60.00	0.00	0.00	0.00
9.00	0.30	0.00	0.30	61.00	0.00	0.00	0.00
10.00	0.51	0.00	0.51	62.00	0.00	0.00	0.00
11.00	0.85	0.00	0.85	63.00	0.00	0.00	0.00
12.00	6.58	0.00	6.58	64.00	0.00	0.00	0.00
13.00	3.07	0.00	3.07	65.00	0.00	0.00	0.00
14.00	1.62	0.00	1.62	66.00	0.00	0.00	0.00
15.00	1.03	0.00	1.03	67.00	0.00	0.00	0.00
16.00	0.80	0.00	0.80	68.00	0.00	0.00	0.00
17.00	0.70	0.00	0.70	69.00	0.00	0.00	0.00
18.00	0.62	0.00	0.62	70.00	0.00	0.00	0.00
19.00	0.57	0.00	0.57	71.00	0.00	0.00	0.00
20.00	0.53	0.00	0.53	72.00	0.00	0.00	0.00
21.00	0.50	0.00	0.50				
22.00	0.47	0.00	0.47				
23.00	0.44	0.00	0.44				
24.00	0.41	0.00	0.41				
25.00	0.27	0.00	0.27				
26.00	0.22	0.00	0.22				
27.00	0.18	0.00	0.18				
28.00	0.15	0.00	0.15				
29.00	0.12	0.00	0.12				
30.00	0.09	0.00	0.09				
31.00	0.07	0.00	0.07				
32.00	0.04	0.00	0.04				
33.00	0.03	0.00	0.03				
34.00	0.02	0.00	0.02				
35.00	0.02	0.00	0.02				
36.00	0.01	0.00	0.01				
37.00	0.01	0.00	0.01				
38.00	0.01	0.00	0.01				
39.00	0.01	0.00	0.01				
40.00	0.01	0.00	0.01				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 9.14" for 100-Year-Projected event
Inflow = 1.74 cfs @ 12.15 hrs, Volume= 0.152 af
Primary = 1.74 cfs @ 12.15 hrs, Volume= 0.152 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	53.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.01	0.00	0.01	56.00	0.00	0.00	0.00
5.00	0.01	0.00	0.01	57.00	0.00	0.00	0.00
6.00	0.01	0.00	0.01	58.00	0.00	0.00	0.00
7.00	0.02	0.00	0.02	59.00	0.00	0.00	0.00
8.00	0.03	0.00	0.03	60.00	0.00	0.00	0.00
9.00	0.04	0.00	0.04	61.00	0.00	0.00	0.00
10.00	0.06	0.00	0.06	62.00	0.00	0.00	0.00
11.00	0.13	0.00	0.13	63.00	0.00	0.00	0.00
12.00	1.00	0.00	1.00	64.00	0.00	0.00	0.00
13.00	0.21	0.00	0.21	65.00	0.00	0.00	0.00
14.00	0.10	0.00	0.10	66.00	0.00	0.00	0.00
15.00	0.07	0.00	0.07	67.00	0.00	0.00	0.00
16.00	0.05	0.00	0.05	68.00	0.00	0.00	0.00
17.00	0.05	0.00	0.05	69.00	0.00	0.00	0.00
18.00	0.04	0.00	0.04	70.00	0.00	0.00	0.00
19.00	0.03	0.00	0.03	71.00	0.00	0.00	0.00
20.00	0.03	0.00	0.03	72.00	0.00	0.00	0.00
21.00	0.03	0.00	0.03				
22.00	0.03	0.00	0.03				
23.00	0.03	0.00	0.03				
24.00	0.02	0.00	0.02				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious	Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=469' Tc=3.7 min CN=98 Runoff=1.29 cfs 0.037 af
Subcatchment39S: Pervious	Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=0.17" Flow Length=398' Tc=10.5 min CN=80 Runoff=0.26 cfs 0.010 af
Subcatchment46S: Impervious	Runoff Area=0.710 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=130' Slope=0.0150 '/' Tc=1.5 min CN=98 Runoff=2.21 cfs 0.061 af
Subcatchment47S: Pervious	Runoff Area=0.090 ac 0.00% Impervious Runoff Depth=0.17" Flow Length=44' Slope=0.0200 '/' Tc=7.2 min CN=80 Runoff=0.04 cfs 0.001 af
Subcatchment48S: Impervious	Runoff Area=0.030 ac 100.00% Impervious Runoff Depth=1.03" Flow Length=213' Tc=1.6 min CN=98 Runoff=0.09 cfs 0.003 af
Subcatchment49S: Pervious	Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=0.17" Flow Length=224' Slope=0.0200 '/' Tc=10.4 min CN=80 Runoff=0.07 cfs 0.002 af
Pond 44P: Prop. Basin	Peak Elev=134.30' Storage=2,036 cf Inflow=1.38 cfs 0.047 af Outflow=0.00 cfs 0.000 af
Pond 45P: Pervious Pavement	Peak Elev=132.73' Storage=2,384 cf Inflow=2.21 cfs 0.063 af Outflow=0.12 cfs 0.041 af
Link 37L: DA Prop. Basin	Inflow=1.38 cfs 0.047 af Primary=1.38 cfs 0.047 af
Link 43L: POA 1 Total	Inflow=0.18 cfs 0.046 af Primary=0.18 cfs 0.046 af
Link 44L: DA Undetained	Inflow=0.10 cfs 0.005 af Primary=0.10 cfs 0.005 af

Total Runoff Area = 2.100 ac Runoff Volume = 0.114 af Average Runoff Depth = 0.65"
44.29% Pervious = 0.930 ac 55.71% Impervious = 1.170 ac

Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

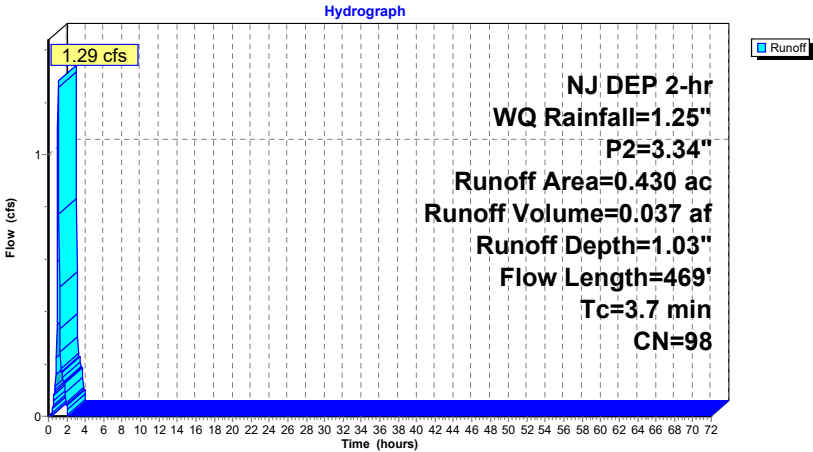
Runoff = 1.29 cfs @ 1.07 hrs, Volume= 0.037 af, Depth= 1.03"
Routed to Link 37L : DA Prop. Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description			
0.430	98	Paved parking, HSG B			
0.430		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow , Smooth surfaces n= 0.011 P2= 3.34"
0.8	97	0.0100	2.03		Shallow Concentrated Flow , Paved Kv= 20.3 fps
1.1	272	0.0050	4.03	4.95	Pipe Channel , 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
3.7	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	1.03	0.00
1.00	0.63	0.43	1.10	53.00	1.25	1.03	0.00
2.00	1.25	1.03	0.04	54.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
24.00	1.25	1.03	0.00				
25.00	1.25	1.03	0.00				
26.00	1.25	1.03	0.00				
27.00	1.25	1.03	0.00				
28.00	1.25	1.03	0.00				
29.00	1.25	1.03	0.00				
30.00	1.25	1.03	0.00				
31.00	1.25	1.03	0.00				
32.00	1.25	1.03	0.00				
33.00	1.25	1.03	0.00				
34.00	1.25	1.03	0.00				
35.00	1.25	1.03	0.00				
36.00	1.25	1.03	0.00				
37.00	1.25	1.03	0.00				
38.00	1.25	1.03	0.00				
39.00	1.25	1.03	0.00				
40.00	1.25	1.03	0.00				
41.00	1.25	1.03	0.00				
42.00	1.25	1.03	0.00				
43.00	1.25	1.03	0.00				
44.00	1.25	1.03	0.00				
45.00	1.25	1.03	0.00				
46.00	1.25	1.03	0.00				
47.00	1.25	1.03	0.00				
48.00	1.25	1.03	0.00				
49.00	1.25	1.03	0.00				
50.00	1.25	1.03	0.00				
51.00	1.25	1.03	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 0.26 cfs @ 1.22 hrs, Volume= 0.010 af, Depth= 0.17"
Routed to Link 37L : DA Prop. Basin

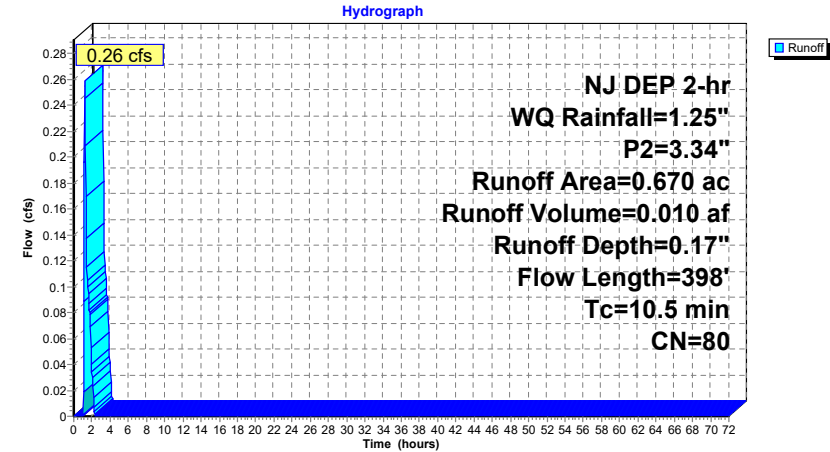
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description			
0.670	80	>75% Grass cover, Good, HSG D			
0.670		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	72	0.0300	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.1	278	0.0050	4.03	4.95	Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
10.5	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	0.17	0.00
1.00	0.63	0.01	0.00	53.00	1.25	0.17	0.00
2.00	1.25	0.17	0.03	54.00	1.25	0.17	0.00
3.00	1.25	0.17	0.00	55.00	1.25	0.17	0.00
4.00	1.25	0.17	0.00	56.00	1.25	0.17	0.00
5.00	1.25	0.17	0.00	57.00	1.25	0.17	0.00
6.00	1.25	0.17	0.00	58.00	1.25	0.17	0.00
7.00	1.25	0.17	0.00	59.00	1.25	0.17	0.00
8.00	1.25	0.17	0.00	60.00	1.25	0.17	0.00
9.00	1.25	0.17	0.00	61.00	1.25	0.17	0.00
10.00	1.25	0.17	0.00	62.00	1.25	0.17	0.00
11.00	1.25	0.17	0.00	63.00	1.25	0.17	0.00
12.00	1.25	0.17	0.00	64.00	1.25	0.17	0.00
13.00	1.25	0.17	0.00	65.00	1.25	0.17	0.00
14.00	1.25	0.17	0.00	66.00	1.25	0.17	0.00
15.00	1.25	0.17	0.00	67.00	1.25	0.17	0.00
16.00	1.25	0.17	0.00	68.00	1.25	0.17	0.00
17.00	1.25	0.17	0.00	69.00	1.25	0.17	0.00
18.00	1.25	0.17	0.00	70.00	1.25	0.17	0.00
19.00	1.25	0.17	0.00	71.00	1.25	0.17	0.00
20.00	1.25	0.17	0.00	72.00	1.25	0.17	0.00
21.00	1.25	0.17	0.00				
22.00	1.25	0.17	0.00				
23.00	1.25	0.17	0.00				
24.00	1.25	0.17	0.00				
25.00	1.25	0.17	0.00				
26.00	1.25	0.17	0.00				
27.00	1.25	0.17	0.00				
28.00	1.25	0.17	0.00				
29.00	1.25	0.17	0.00				
30.00	1.25	0.17	0.00				
31.00	1.25	0.17	0.00				
32.00	1.25	0.17	0.00				
33.00	1.25	0.17	0.00				
34.00	1.25	0.17	0.00				
35.00	1.25	0.17	0.00				
36.00	1.25	0.17	0.00				
37.00	1.25	0.17	0.00				
38.00	1.25	0.17	0.00				
39.00	1.25	0.17	0.00				
40.00	1.25	0.17	0.00				
41.00	1.25	0.17	0.00				
42.00	1.25	0.17	0.00				
43.00	1.25	0.17	0.00				
44.00	1.25	0.17	0.00				
45.00	1.25	0.17	0.00				
46.00	1.25	0.17	0.00				
47.00	1.25	0.17	0.00				
48.00	1.25	0.17	0.00				
49.00	1.25	0.17	0.00				
50.00	1.25	0.17	0.00				
51.00	1.25	0.17	0.00				

Summary for Subcatchment 46S: Impervious

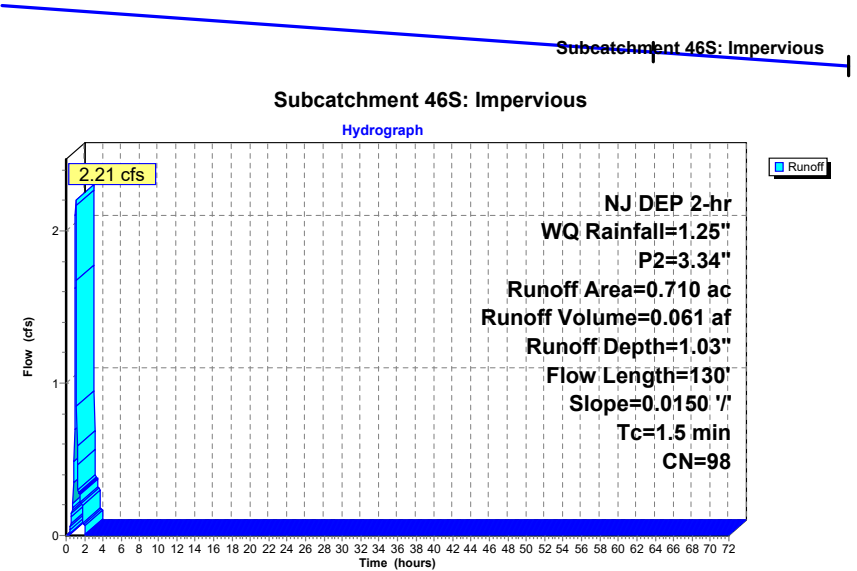
[49] Hint: Tc<2dt may require smaller dt

Runoff = 2.21 cfs @ 1.03 hrs, Volume= 0.061 af, Depth= 1.03"
Routed to Pond 45P : Pervious Pavement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description
0.710	98	Paved parking, HSG D
0.710		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0150	1.25		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
0.2	30	0.0150	2.49		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.5	130		Total		



Hydrograph for Subcatchment 46S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	1.03	0.00
1.00	0.63	0.43	2.10	53.00	1.25	1.03	0.00
2.00	1.25	1.03	0.06	54.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
24.00	1.25	1.03	0.00				
25.00	1.25	1.03	0.00				
26.00	1.25	1.03	0.00				
27.00	1.25	1.03	0.00				
28.00	1.25	1.03	0.00				
29.00	1.25	1.03	0.00				
30.00	1.25	1.03	0.00				
31.00	1.25	1.03	0.00				
32.00	1.25	1.03	0.00				
33.00	1.25	1.03	0.00				
34.00	1.25	1.03	0.00				
35.00	1.25	1.03	0.00				
36.00	1.25	1.03	0.00				
37.00	1.25	1.03	0.00				
38.00	1.25	1.03	0.00				
39.00	1.25	1.03	0.00				
40.00	1.25	1.03	0.00				
41.00	1.25	1.03	0.00				
42.00	1.25	1.03	0.00				
43.00	1.25	1.03	0.00				
44.00	1.25	1.03	0.00				
45.00	1.25	1.03	0.00				
46.00	1.25	1.03	0.00				
47.00	1.25	1.03	0.00				
48.00	1.25	1.03	0.00				
49.00	1.25	1.03	0.00				
50.00	1.25	1.03	0.00				
51.00	1.25	1.03	0.00				

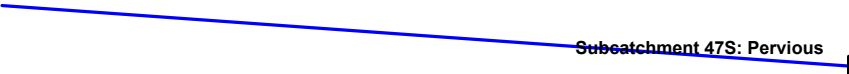
Summary for Subcatchment 47S: Pervious

Runoff = 0.04 cfs @ 1.17 hrs, Volume= 0.001 af, Depth= 0.17"
Routed to Pond 45P : Pervious Pavement

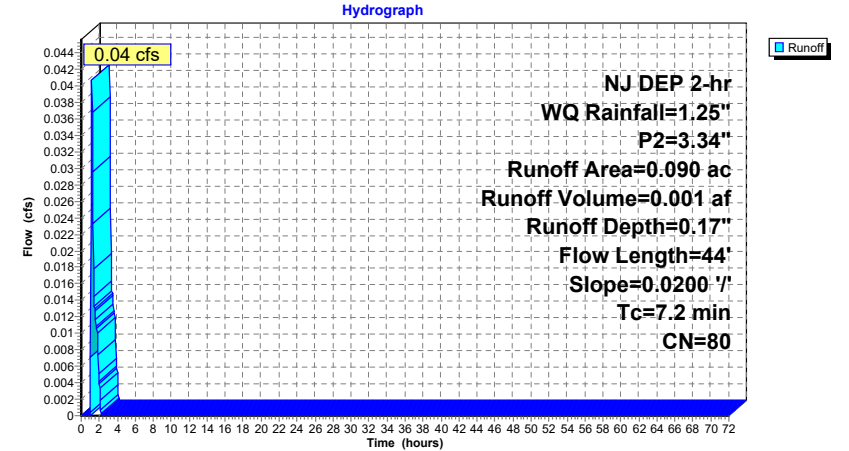
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description
0.090	80	>75% Grass cover, Good, HSG D
0.090		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	44	0.0200	0.10		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34"



Subcatchment 47S: Pervious



Hydrograph for Subcatchment 47S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	0.17	0.00
1.00	0.63	0.01	0.00	53.00	1.25	0.17	0.00
2.00	1.25	0.17	0.00	54.00	1.25	0.17	0.00
3.00	1.25	0.17	0.00	55.00	1.25	0.17	0.00
4.00	1.25	0.17	0.00	56.00	1.25	0.17	0.00
5.00	1.25	0.17	0.00	57.00	1.25	0.17	0.00
6.00	1.25	0.17	0.00	58.00	1.25	0.17	0.00
7.00	1.25	0.17	0.00	59.00	1.25	0.17	0.00
8.00	1.25	0.17	0.00	60.00	1.25	0.17	0.00
9.00	1.25	0.17	0.00	61.00	1.25	0.17	0.00
10.00	1.25	0.17	0.00	62.00	1.25	0.17	0.00
11.00	1.25	0.17	0.00	63.00	1.25	0.17	0.00
12.00	1.25	0.17	0.00	64.00	1.25	0.17	0.00
13.00	1.25	0.17	0.00	65.00	1.25	0.17	0.00
14.00	1.25	0.17	0.00	66.00	1.25	0.17	0.00
15.00	1.25	0.17	0.00	67.00	1.25	0.17	0.00
16.00	1.25	0.17	0.00	68.00	1.25	0.17	0.00
17.00	1.25	0.17	0.00	69.00	1.25	0.17	0.00
18.00	1.25	0.17	0.00	70.00	1.25	0.17	0.00
19.00	1.25	0.17	0.00	71.00	1.25	0.17	0.00
20.00	1.25	0.17	0.00	72.00	1.25	0.17	0.00
21.00	1.25	0.17	0.00				
22.00	1.25	0.17	0.00				
23.00	1.25	0.17	0.00				
24.00	1.25	0.17	0.00				
25.00	1.25	0.17	0.00				
26.00	1.25	0.17	0.00				
27.00	1.25	0.17	0.00				
28.00	1.25	0.17	0.00				
29.00	1.25	0.17	0.00				
30.00	1.25	0.17	0.00				
31.00	1.25	0.17	0.00				
32.00	1.25	0.17	0.00				
33.00	1.25	0.17	0.00				
34.00	1.25	0.17	0.00				
35.00	1.25	0.17	0.00				
36.00	1.25	0.17	0.00				
37.00	1.25	0.17	0.00				
38.00	1.25	0.17	0.00				
39.00	1.25	0.17	0.00				
40.00	1.25	0.17	0.00				
41.00	1.25	0.17	0.00				
42.00	1.25	0.17	0.00				
43.00	1.25	0.17	0.00				
44.00	1.25	0.17	0.00				
45.00	1.25	0.17	0.00				
46.00	1.25	0.17	0.00				
47.00	1.25	0.17	0.00				
48.00	1.25	0.17	0.00				
49.00	1.25	0.17	0.00				
50.00	1.25	0.17	0.00				
51.00	1.25	0.17	0.00				

Summary for Subcatchment 48S: Impervious

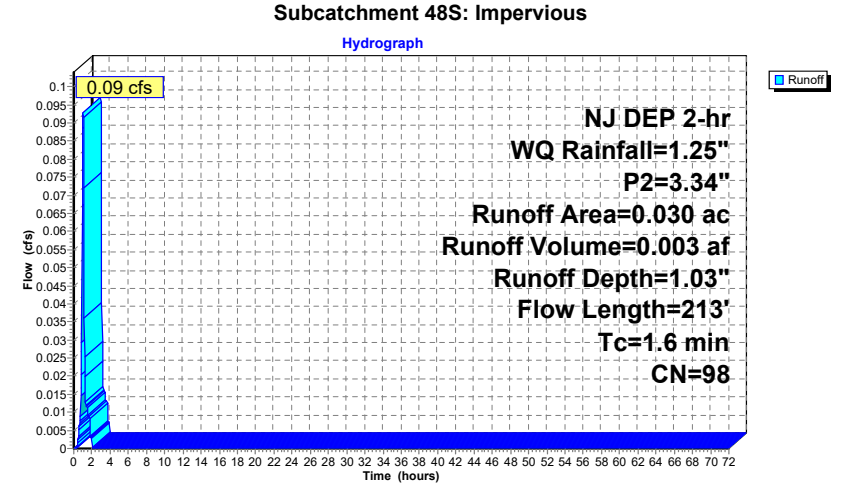
[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.09 cfs @ 1.03 hrs, Volume= 0.003 af, Depth= 1.03"
Routed to Link 44L : DA Undetained

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description
0.030	98	Paved parking, HSG D
0.030		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	5	0.0150	0.69		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34"
1.5	208	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
1.6	213	Total			



Hydrograph for Subcatchment 48S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	1.03	0.00
1.00	0.63	0.43	0.09	53.00	1.25	1.03	0.00
2.00	1.25	1.03	0.00	54.00	1.25	1.03	0.00
3.00	1.25	1.03	0.00	55.00	1.25	1.03	0.00
4.00	1.25	1.03	0.00	56.00	1.25	1.03	0.00
5.00	1.25	1.03	0.00	57.00	1.25	1.03	0.00
6.00	1.25	1.03	0.00	58.00	1.25	1.03	0.00
7.00	1.25	1.03	0.00	59.00	1.25	1.03	0.00
8.00	1.25	1.03	0.00	60.00	1.25	1.03	0.00
9.00	1.25	1.03	0.00	61.00	1.25	1.03	0.00
10.00	1.25	1.03	0.00	62.00	1.25	1.03	0.00
11.00	1.25	1.03	0.00	63.00	1.25	1.03	0.00
12.00	1.25	1.03	0.00	64.00	1.25	1.03	0.00
13.00	1.25	1.03	0.00	65.00	1.25	1.03	0.00
14.00	1.25	1.03	0.00	66.00	1.25	1.03	0.00
15.00	1.25	1.03	0.00	67.00	1.25	1.03	0.00
16.00	1.25	1.03	0.00	68.00	1.25	1.03	0.00
17.00	1.25	1.03	0.00	69.00	1.25	1.03	0.00
18.00	1.25	1.03	0.00	70.00	1.25	1.03	0.00
19.00	1.25	1.03	0.00	71.00	1.25	1.03	0.00
20.00	1.25	1.03	0.00	72.00	1.25	1.03	0.00
21.00	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
24.00	1.25	1.03	0.00				
25.00	1.25	1.03	0.00				
26.00	1.25	1.03	0.00				
27.00	1.25	1.03	0.00				
28.00	1.25	1.03	0.00				
29.00	1.25	1.03	0.00				
30.00	1.25	1.03	0.00				
31.00	1.25	1.03	0.00				
32.00	1.25	1.03	0.00				
33.00	1.25	1.03	0.00				
34.00	1.25	1.03	0.00				
35.00	1.25	1.03	0.00				
36.00	1.25	1.03	0.00				
37.00	1.25	1.03	0.00				
38.00	1.25	1.03	0.00				
39.00	1.25	1.03	0.00				
40.00	1.25	1.03	0.00				
41.00	1.25	1.03	0.00				
42.00	1.25	1.03	0.00				
43.00	1.25	1.03	0.00				
44.00	1.25	1.03	0.00				
45.00	1.25	1.03	0.00				
46.00	1.25	1.03	0.00				
47.00	1.25	1.03	0.00				
48.00	1.25	1.03	0.00				
49.00	1.25	1.03	0.00				
50.00	1.25	1.03	0.00				
51.00	1.25	1.03	0.00				

Summary for Subcatchment 49S: Pervious

Runoff = 0.07 cfs @ 1.22 hrs, Volume= 0.002 af, Depth= 0.17"
Routed to Link 44L : DA Undetained

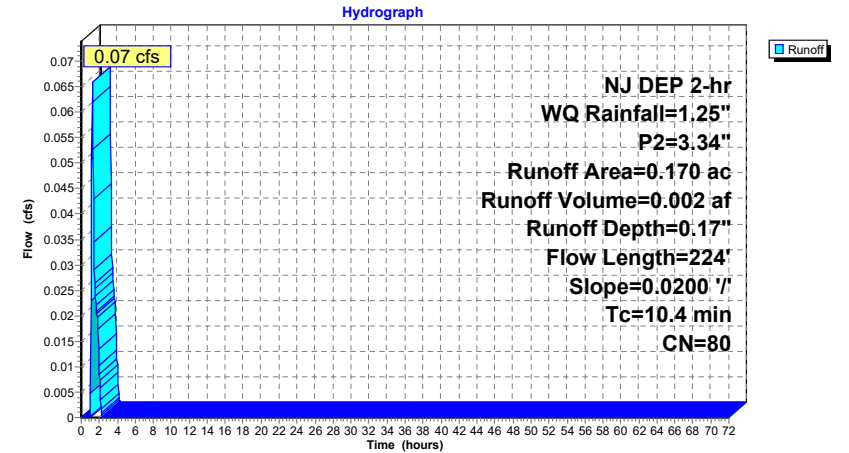
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

Area (ac)	CN	Description
0.170	80	>75% Grass cover, Good, HSG D
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.2	59	0.0200	0.11		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
1.2	165	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
10.4	224	Total			



Subcatchment 49S: Pervious



Hydrograph for Subcatchment 49S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	1.25	0.17	0.00
1.00	0.63	0.01	0.00	53.00	1.25	0.17	0.00
2.00	1.25	0.17	0.01	54.00	1.25	0.17	0.00
3.00	1.25	0.17	0.00	55.00	1.25	0.17	0.00
4.00	1.25	0.17	0.00	56.00	1.25	0.17	0.00
5.00	1.25	0.17	0.00	57.00	1.25	0.17	0.00
6.00	1.25	0.17	0.00	58.00	1.25	0.17	0.00
7.00	1.25	0.17	0.00	59.00	1.25	0.17	0.00
8.00	1.25	0.17	0.00	60.00	1.25	0.17	0.00
9.00	1.25	0.17	0.00	61.00	1.25	0.17	0.00
10.00	1.25	0.17	0.00	62.00	1.25	0.17	0.00
11.00	1.25	0.17	0.00	63.00	1.25	0.17	0.00
12.00	1.25	0.17	0.00	64.00	1.25	0.17	0.00
13.00	1.25	0.17	0.00	65.00	1.25	0.17	0.00
14.00	1.25	0.17	0.00	66.00	1.25	0.17	0.00
15.00	1.25	0.17	0.00	67.00	1.25	0.17	0.00
16.00	1.25	0.17	0.00	68.00	1.25	0.17	0.00
17.00	1.25	0.17	0.00	69.00	1.25	0.17	0.00
18.00	1.25	0.17	0.00	70.00	1.25	0.17	0.00
19.00	1.25	0.17	0.00	71.00	1.25	0.17	0.00
20.00	1.25	0.17	0.00	72.00	1.25	0.17	0.00
21.00	1.25	0.17	0.00				
22.00	1.25	0.17	0.00				
23.00	1.25	0.17	0.00				
24.00	1.25	0.17	0.00				
25.00	1.25	0.17	0.00				
26.00	1.25	0.17	0.00				
27.00	1.25	0.17	0.00				
28.00	1.25	0.17	0.00				
29.00	1.25	0.17	0.00				
30.00	1.25	0.17	0.00				
31.00	1.25	0.17	0.00				
32.00	1.25	0.17	0.00				
33.00	1.25	0.17	0.00				
34.00	1.25	0.17	0.00				
35.00	1.25	0.17	0.00				
36.00	1.25	0.17	0.00				
37.00	1.25	0.17	0.00				
38.00	1.25	0.17	0.00				
39.00	1.25	0.17	0.00				
40.00	1.25	0.17	0.00				
41.00	1.25	0.17	0.00				
42.00	1.25	0.17	0.00				
43.00	1.25	0.17	0.00				
44.00	1.25	0.17	0.00				
45.00	1.25	0.17	0.00				
46.00	1.25	0.17	0.00				
47.00	1.25	0.17	0.00				
48.00	1.25	0.17	0.00				
49.00	1.25	0.17	0.00				
50.00	1.25	0.17	0.00				
51.00	1.25	0.17	0.00				

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 0.51" for WQ event
Inflow = 1.38 cfs @ 1.08 hrs, Volume= 0.047 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link 43L : POA 1 Total

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 134.30' @ 2.65 hrs Surf.Area= 2,596 sf Storage= 2,036 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no outflow)

Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

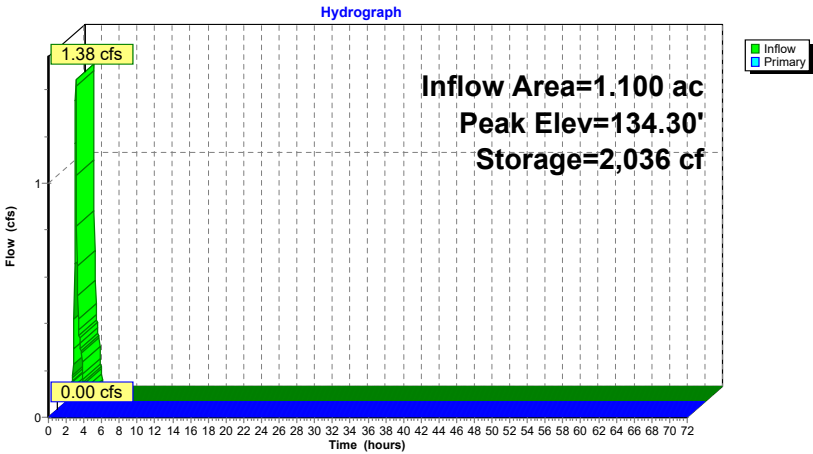
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	134.40'	0.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
#2	Primary	136.00'	42.0" x 48.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads

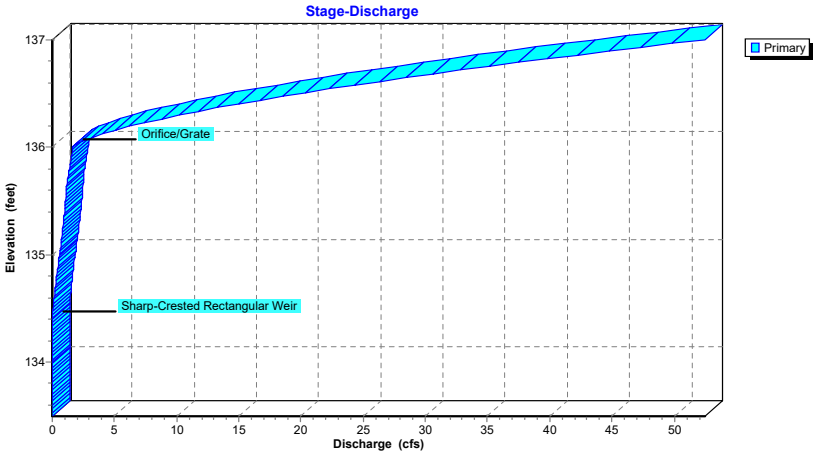
Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=133.50' (Free Discharge)
1=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
2=Orifice/Grate (Controls 0.00 cfs)



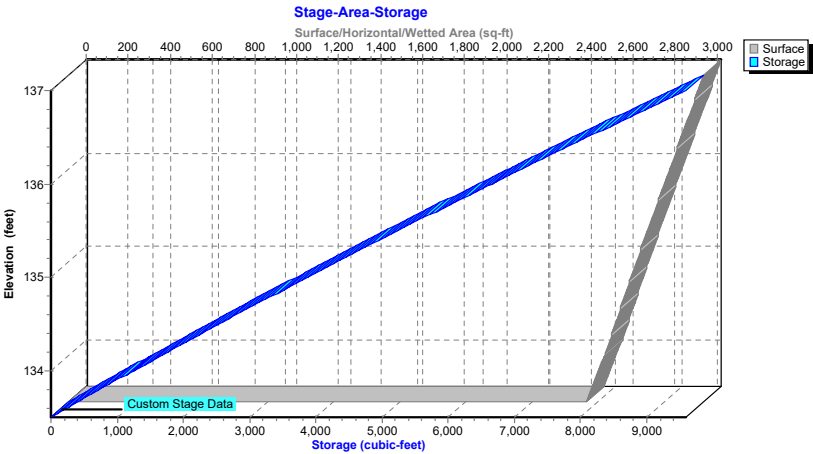
Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



2026-05 Proposed Hydrology

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NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

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Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	133.50	0.00
2.50	0.00	2,036	134.30	0.00
5.00	0.00	2,036	134.30	0.00
7.50	0.00	2,036	134.30	0.00
10.00	0.00	2,036	134.30	0.00
12.50	0.00	2,036	134.30	0.00
15.00	0.00	2,036	134.30	0.00
17.50	0.00	2,036	134.30	0.00
20.00	0.00	2,036	134.30	0.00
22.50	0.00	2,036	134.30	0.00
25.00	0.00	2,036	134.30	0.00
27.50	0.00	2,036	134.30	0.00
30.00	0.00	2,036	134.30	0.00
32.50	0.00	2,036	134.30	0.00
35.00	0.00	2,036	134.30	0.00
37.50	0.00	2,036	134.30	0.00
40.00	0.00	2,036	134.30	0.00
42.50	0.00	2,036	134.30	0.00
45.00	0.00	2,036	134.30	0.00
47.50	0.00	2,036	134.30	0.00
50.00	0.00	2,036	134.30	0.00
52.50	0.00	2,036	134.30	0.00
55.00	0.00	2,036	134.30	0.00
57.50	0.00	2,036	134.30	0.00
60.00	0.00	2,036	134.30	0.00
62.50	0.00	2,036	134.30	0.00
65.00	0.00	2,036	134.30	0.00
67.50	0.00	2,036	134.30	0.00
70.00	0.00	2,036	134.30	0.00

2026-05 Proposed Hydrology

Prepared by Dynamic Engineering

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NJ DEP 2-hr WQ Rainfall=1.25", P2=3.34"

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Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.08	135.58	1.11	136.62	26.65
133.52	0.00	134.56	0.10	135.60	1.12	136.64	27.85
133.54	0.00	134.58	0.12	135.62	1.13	136.66	29.08
133.56	0.00	134.60	0.13	135.64	1.14	136.68	30.32
133.58	0.00	134.62	0.15	135.66	1.16	136.70	31.58
133.60	0.00	134.64	0.17	135.68	1.18	136.72	32.86
133.62	0.00	134.66	0.19	135.70	1.21	136.74	34.15
133.64	0.00	134.68	0.22	135.72	1.24	136.76	35.46
133.66	0.00	134.70	0.24	135.74	1.27	136.78	36.79
133.68	0.00	134.72	0.26	135.76	1.30	136.80	38.14
133.70	0.00	134.74	0.28	135.78	1.33	136.82	39.50
133.72	0.00	134.76	0.30	135.80	1.35	136.84	40.88
133.74	0.00	134.78	0.32	135.82	1.38	136.86	42.27
133.76	0.00	134.80	0.35	135.84	1.41	136.88	43.68
133.78	0.00	134.82	0.37	135.86	1.44	136.90	45.11
133.80	0.00	134.84	0.39	135.88	1.47	136.92	46.55
133.82	0.00	134.86	0.42	135.90	1.50	136.94	48.01
133.84	0.00	134.88	0.44	135.92	1.53	136.96	49.49
133.86	0.00	134.90	0.46	135.94	1.56	136.98	50.97
133.88	0.00	134.92	0.49	135.96	1.59	137.00	52.48
133.90	0.00	134.94	0.51	135.98	1.62		
133.92	0.00	134.96	0.53	136.00	1.65		
133.94	0.00	134.98	0.55	136.02	1.82		
133.96	0.00	135.00	0.58	136.04	2.11		
133.98	0.00	135.02	0.60	136.06	2.47		
134.00	0.00	135.04	0.62	136.08	2.89		
134.02	0.00	135.06	0.65	136.10	3.36		
134.04	0.00	135.08	0.67	136.12	3.88		
134.06	0.00	135.10	0.69	136.14	4.45		
134.08	0.00	135.12	0.71	136.16	5.05		
134.10	0.00	135.14	0.73	136.18	5.69		
134.12	0.00	135.16	0.75	136.20	6.36		
134.14	0.00	135.18	0.77	136.22	7.07		
134.16	0.00	135.20	0.80	136.24	7.81		
134.18	0.00	135.22	0.82	136.26	8.58		
134.20	0.00	135.24	0.84	136.28	9.37		
134.22	0.00	135.26	0.86	136.30	10.20		
134.24	0.00	135.28	0.87	136.32	11.05		
134.26	0.00	135.30	0.89	136.34	11.93		
134.28	0.00	135.32	0.91	136.36	12.84		
134.30	0.00	135.34	0.93	136.38	13.77		
134.32	0.00	135.36	0.95	136.40	14.72		
134.34	0.00	135.38	0.96	136.42	15.70		
134.36	0.00	135.40	0.98	136.44	16.70		
134.38	0.00	135.42	1.00	136.46	17.72		
134.40	0.00	135.44	1.01	136.48	18.76		
134.42	0.00	135.46	1.03	136.50	19.83		
134.44	0.01	135.48	1.04	136.52	20.92		
134.46	0.02	135.50	1.06	136.54	22.02		
134.48	0.04	135.52	1.07	136.56	23.15		
134.50	0.05	135.54	1.08	136.58	24.30		
134.52	0.06	135.56	1.09	136.60	25.46		

Stage-Area-Storage for Pond 44P: Prop. Basin

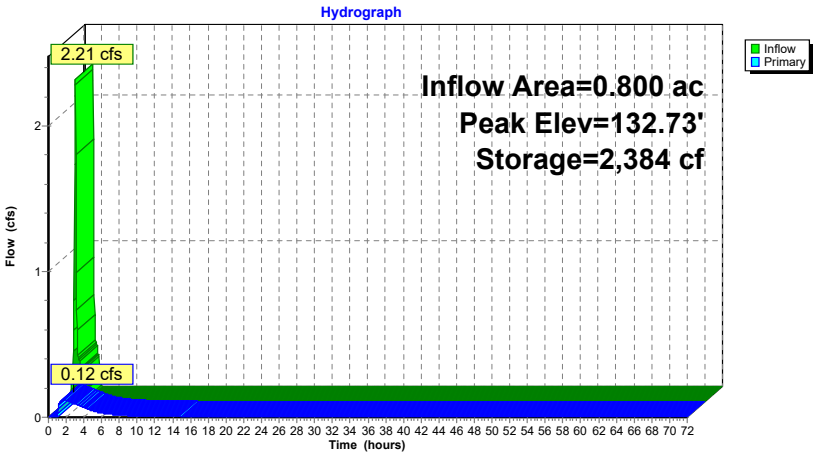
Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Pond 45P: Pervious Pavement

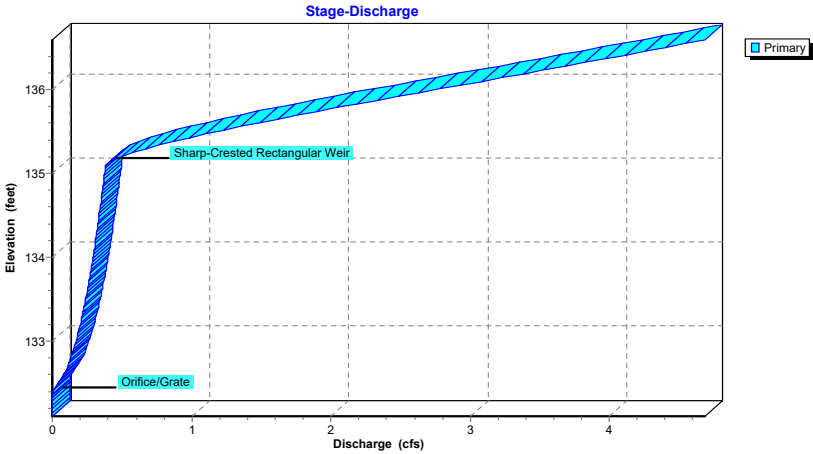
Inflow Area =	0.800 ac, 88.75% Impervious,	Inflow Depth = 0.94"	for WQ event
Inflow =	2.21 cfs @ 1.03 hrs,	Volume=	0.063 af
Outflow =	0.12 cfs @ 1.80 hrs,	Volume=	0.041 af, Atten= 95%, Lag= 46.0 min
Primary =	0.12 cfs @ 1.80 hrs,	Volume=	0.041 af
Routed to Link 43L : POA 1 Total			
Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs			
Peak Elev= 132.73' @ 1.80 hrs Surf.Area= 9,150 sf Storage= 2,384 cf			
Plug-Flow detention time= 301.1 min calculated for 0.041 af (66% of inflow)			
Center-of-Mass det. time= 292.1 min (358.6 - 66.5)			
Volume	Invert	Avail.Storage	Storage Description
#1	132.10'	16,342 cf	Custom Stage Data (Prismatic) Listed below
			41,175 cf Overall - 319 cf Embedded = 40,856 cf x 40.0% Voids
#2	132.35'	221 cf	12.0" Round Pipe Storage Inside #1
			L= 281.0'
#3	132.35'	99 cf	6.0" Round Pipe Storage Inside #1
			L= 502.0'
		16,662 cf	Total Available Storage
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
132.10	9,150	0	0
136.60	9,150	41,175	41,175
Device	Routing	Invert	Outlet Devices
#1	Primary	132.35'	3.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
#2	Primary	135.10'	1.0' long Sharp-Crested Rectangular Weir 2 End Contraction(s)
Primary OutFlow Max=0.12 cfs @ 1.80 hrs HW=132.73' (Free Discharge)			
1=Orifice/Grate (Orifice Controls 0.12 cfs @ 2.41 fps)			
2=Sharp-Crested Rectangular Weir(Controls 0.00 cfs)			



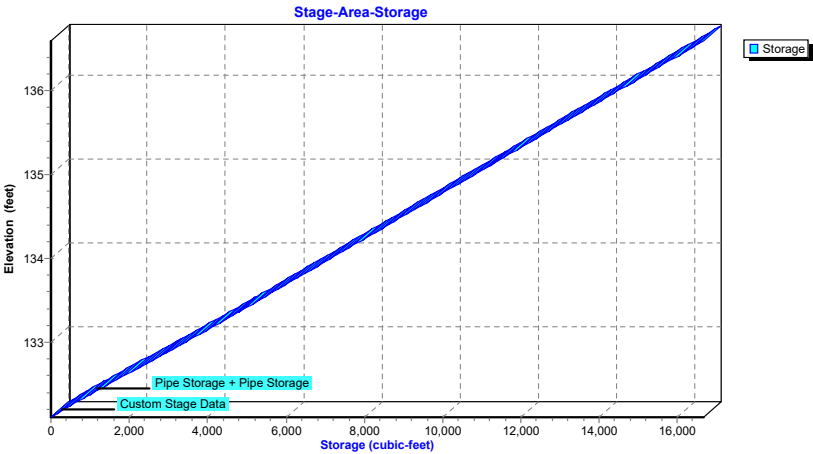
Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Pond 45P: Pervious Pavement



Hydrograph for Pond 45P: Pervious Pavement

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	132.10	0.00
2.50	0.00	2,163	132.67	0.10
5.00	0.00	1,510	132.50	0.04
7.50	0.00	1,263	132.44	0.02
10.00	0.00	1,153	132.41	0.01
12.50	0.00	1,091	132.40	0.01
15.00	0.00	1,050	132.39	0.00
17.50	0.00	1,023	132.38	0.00
20.00	0.00	1,005	132.37	0.00
22.50	0.00	993	132.37	0.00
25.00	0.00	985	132.37	0.00
27.50	0.00	978	132.37	0.00
30.00	0.00	972	132.37	0.00
32.50	0.00	966	132.36	0.00
35.00	0.00	961	132.36	0.00
37.50	0.00	956	132.36	0.00
40.00	0.00	952	132.36	0.00
42.50	0.00	948	132.36	0.00
45.00	0.00	945	132.36	0.00
47.50	0.00	942	132.36	0.00
50.00	0.00	939	132.36	0.00
52.50	0.00	937	132.36	0.00
55.00	0.00	934	132.36	0.00
57.50	0.00	932	132.35	0.00
60.00	0.00	931	132.35	0.00
62.50	0.00	929	132.35	0.00
65.00	0.00	928	132.35	0.00
67.50	0.00	926	132.35	0.00
70.00	0.00	925	132.35	0.00

Stage-Discharge for Pond 45P: Pervious Pavement

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
132.10	0.00	134.70	0.35
132.15	0.00	134.75	0.36
132.20	0.00	134.80	0.36
132.25	0.00	134.85	0.36
132.30	0.00	134.90	0.37
132.35	0.00	134.95	0.37
132.40	0.01	135.00	0.38
132.45	0.02	135.05	0.38
132.50	0.04	135.10	0.38
132.55	0.06	135.15	0.42
132.60	0.08	135.20	0.49
132.65	0.10	135.25	0.58
132.70	0.11	135.30	0.68
132.75	0.12	135.35	0.79
132.80	0.13	135.40	0.91
132.85	0.14	135.45	1.04
132.90	0.15	135.50	1.17
132.95	0.16	135.55	1.31
133.00	0.17	135.60	1.46
133.05	0.18	135.65	1.61
133.10	0.19	135.70	1.76
133.15	0.19	135.75	1.92
133.20	0.20	135.80	2.08
133.25	0.21	135.85	2.24
133.30	0.21	135.90	2.40
133.35	0.22	135.95	2.57
133.40	0.23	136.00	2.73
133.45	0.23	136.05	2.90
133.50	0.24	136.10	3.07
133.55	0.25	136.15	3.23
133.60	0.25	136.20	3.40
133.65	0.26	136.25	3.56
133.70	0.26	136.30	3.73
133.75	0.27	136.35	3.89
133.80	0.27	136.40	4.05
133.85	0.28	136.45	4.22
133.90	0.28	136.50	4.37
133.95	0.29	136.55	4.53
134.00	0.29	136.60	4.69
134.05	0.30		
134.10	0.30		
134.15	0.31		
134.20	0.31		
134.25	0.31		
134.30	0.32		
134.35	0.32		
134.40	0.33		
134.45	0.33		
134.50	0.34		
134.55	0.34		
134.60	0.34		
134.65	0.35		

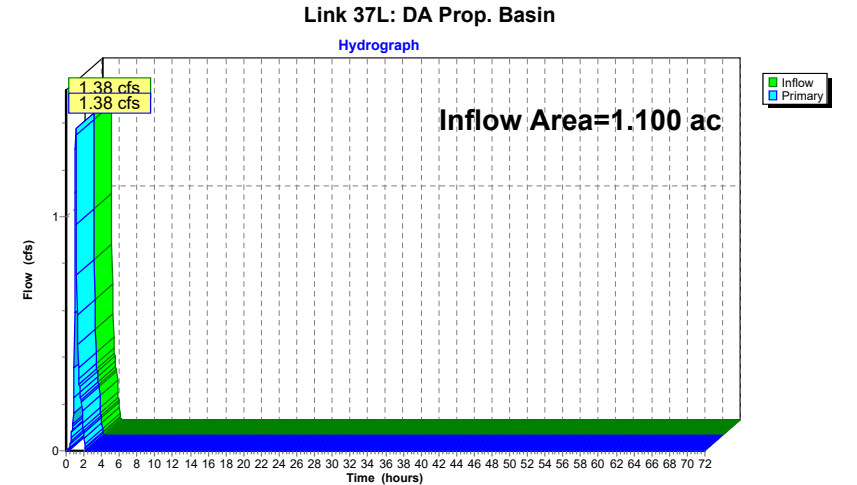
Stage-Area-Storage for Pond 45P: Pervious Pavement

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
132.10	0	134.70	9,708
132.15	183	134.75	9,891
132.20	366	134.80	10,074
132.25	549	134.85	10,257
132.30	732	134.90	10,440
132.35	915	134.95	10,623
132.40	1,104	135.00	10,806
132.45	1,296	135.05	10,989
132.50	1,491	135.10	11,172
132.55	1,688	135.15	11,355
132.60	1,885	135.20	11,538
132.65	2,083	135.25	11,721
132.70	2,282	135.30	11,904
132.75	2,479	135.35	12,087
132.80	2,676	135.40	12,270
132.85	2,870	135.45	12,453
132.90	3,062	135.50	12,636
132.95	3,253	135.55	12,819
133.00	3,444	135.60	13,002
133.05	3,635	135.65	13,185
133.10	3,826	135.70	13,368
133.15	4,016	135.75	13,551
133.20	4,205	135.80	13,734
133.25	4,394	135.85	13,917
133.30	4,581	135.90	14,100
133.35	4,767	135.95	14,283
133.40	4,950	136.00	14,466
133.45	5,133	136.05	14,649
133.50	5,316	136.10	14,832
133.55	5,499	136.15	15,015
133.60	5,682	136.20	15,198
133.65	5,865	136.25	15,381
133.70	6,048	136.30	15,564
133.75	6,231	136.35	15,747
133.80	6,414	136.40	15,930
133.85	6,597	136.45	16,113
133.90	6,780	136.50	16,296
133.95	6,963	136.55	16,479
134.00	7,146	136.60	16,662
134.05	7,329		
134.10	7,512		
134.15	7,695		
134.20	7,878		
134.25	8,061		
134.30	8,244		
134.35	8,427		
134.40	8,610		
134.45	8,793		
134.50	8,976		
134.55	9,159		
134.60	9,342		
134.65	9,525		

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 0.51" for WQ event
Inflow = 1.38 cfs @ 1.08 hrs, Volume= 0.047 af
Primary = 1.38 cfs @ 1.08 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



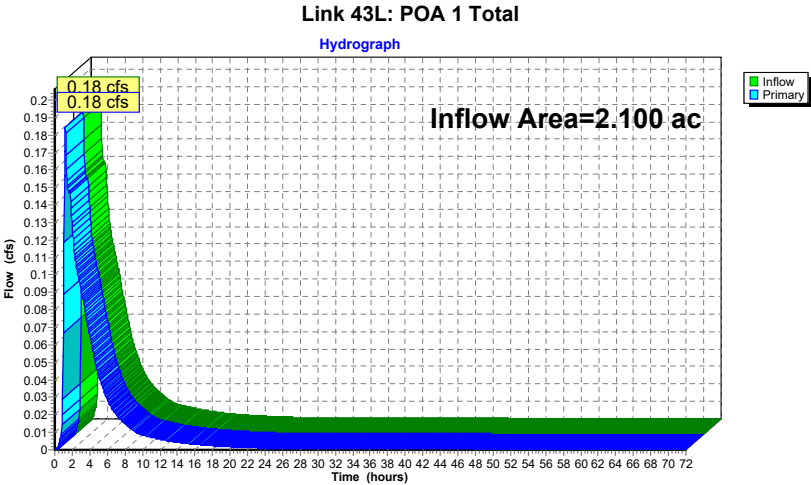
Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	1.10	0.00	1.10	53.00	0.00	0.00	0.00
2.00	0.08	0.00	0.08	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	65.00	0.00	0.00	0.00
14.00	0.00	0.00	0.00	66.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00
16.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
24.00	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 43L: POA 1 Total

Inflow Area = 2.100 ac, 55.71% Impervious, Inflow Depth > 0.26" for WQ event
Inflow = 0.18 cfs @ 1.22 hrs, Volume= 0.046 af
Primary = 0.18 cfs @ 1.22 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



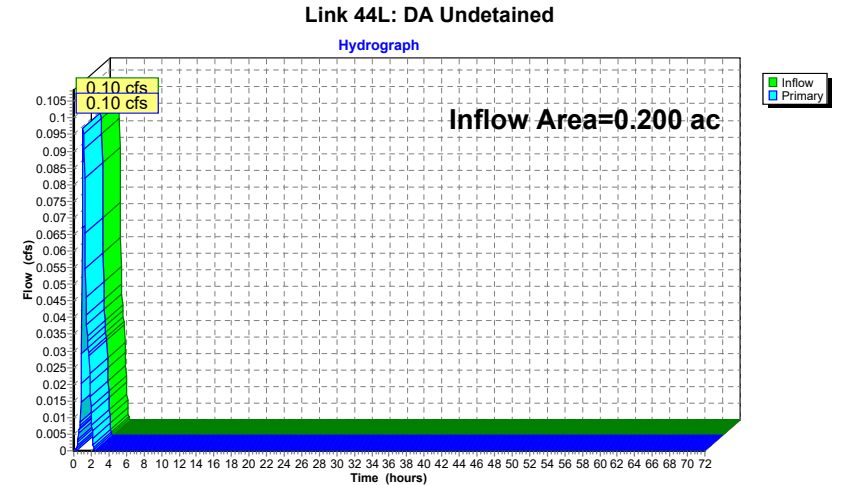
Hydrograph for Link 43L: POA 1 Total

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.09	0.00	0.09	53.00	0.00	0.00	0.00
2.00	0.13	0.00	0.13	54.00	0.00	0.00	0.00
3.00	0.09	0.00	0.09	55.00	0.00	0.00	0.00
4.00	0.07	0.00	0.07	56.00	0.00	0.00	0.00
5.00	0.04	0.00	0.04	57.00	0.00	0.00	0.00
6.00	0.03	0.00	0.03	58.00	0.00	0.00	0.00
7.00	0.02	0.00	0.02	59.00	0.00	0.00	0.00
8.00	0.01	0.00	0.01	60.00	0.00	0.00	0.00
9.00	0.01	0.00	0.01	61.00	0.00	0.00	0.00
10.00	0.01	0.00	0.01	62.00	0.00	0.00	0.00
11.00	0.01	0.00	0.01	63.00	0.00	0.00	0.00
12.00	0.01	0.00	0.01	64.00	0.00	0.00	0.00
13.00	0.01	0.00	0.01	65.00	0.00	0.00	0.00
14.00	0.00	0.00	0.00	66.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00
16.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
24.00	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Summary for Link 44L: DA Undetained

Inflow Area = 0.200 ac, 15.00% Impervious, Inflow Depth = 0.30" for WQ event
Inflow = 0.10 cfs @ 1.07 hrs, Volume= 0.005 af
Primary = 0.10 cfs @ 1.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Routed to Link 43L : POA 1 Total

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 44L: DA Undetained

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00
1.00	0.09	0.00	0.09	53.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01	54.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	55.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	56.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	57.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	58.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
12.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
13.00	0.00	0.00	0.00	65.00	0.00	0.00	0.00
14.00	0.00	0.00	0.00	66.00	0.00	0.00	0.00
15.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00
16.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
17.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
18.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
19.00	0.00	0.00	0.00	71.00	0.00	0.00	0.00
20.00	0.00	0.00	0.00	72.00	0.00	0.00	0.00
21.00	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
24.00	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
26.00	0.00	0.00	0.00				
27.00	0.00	0.00	0.00				
28.00	0.00	0.00	0.00				
29.00	0.00	0.00	0.00				
30.00	0.00	0.00	0.00				
31.00	0.00	0.00	0.00				
32.00	0.00	0.00	0.00				
33.00	0.00	0.00	0.00				
34.00	0.00	0.00	0.00				
35.00	0.00	0.00	0.00				
36.00	0.00	0.00	0.00				
37.00	0.00	0.00	0.00				
38.00	0.00	0.00	0.00				
39.00	0.00	0.00	0.00				
40.00	0.00	0.00	0.00				
41.00	0.00	0.00	0.00				
42.00	0.00	0.00	0.00				
43.00	0.00	0.00	0.00				
44.00	0.00	0.00	0.00				
45.00	0.00	0.00	0.00				
46.00	0.00	0.00	0.00				
47.00	0.00	0.00	0.00				
48.00	0.00	0.00	0.00				
49.00	0.00	0.00	0.00				
50.00	0.00	0.00	0.00				
51.00	0.00	0.00	0.00				

Events for Subcatchment 38S: Impervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	1.60	0.111	3.11
2-Year-Projected	3.84	1.86	0.129	3.61
10-Year-Current	5.11	2.47	0.175	4.87
10-Year-Projected	5.86	2.85	0.201	5.62
100-Year-Current	8.66	4.20	0.302	8.42
100-Year-Projected	11.33	5.52	0.397	11.09
WQ	1.25	1.29	0.037	1.03

Events for Subcatchment 39S: Pervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	1.10	0.084	1.51
2-Year-Projected	3.84	1.42	0.107	1.91
10-Year-Current	5.11	2.17	0.167	2.99
10-Year-Projected	5.86	2.71	0.204	3.66
100-Year-Current	8.66	4.42	0.349	6.25
100-Year-Projected	11.33	6.27	0.491	8.80
WQ	1.25	0.26	0.010	0.17

Events for Subcatchment 46S: Impervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	2.76	0.184	3.11
2-Year-Projected	3.84	3.19	0.213	3.61
10-Year-Current	5.11	4.25	0.288	4.87
10-Year-Projected	5.86	4.89	0.333	5.62
100-Year-Current	8.66	7.23	0.498	8.42
100-Year-Projected	11.33	9.48	0.656	11.09
WQ	1.25	2.21	0.061	1.03

Events for Subcatchment 47S: Pervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	0.17	0.011	1.51
2-Year-Projected	3.84	0.22	0.014	1.91
10-Year-Current	5.11	0.33	0.022	2.99
10-Year-Projected	5.86	0.41	0.027	3.66
100-Year-Current	8.66	0.67	0.047	6.25
100-Year-Projected	11.33	0.94	0.066	8.80
WQ	1.25	0.04	0.001	0.17

Events for Subcatchment 48S: Impervious

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	0.12	0.008	3.11
2-Year-Projected	3.84	0.13	0.009	3.61
10-Year-Current	5.11	0.18	0.012	4.87
10-Year-Projected	5.86	0.21	0.014	5.62
100-Year-Current	8.66	0.30	0.021	8.42
100-Year-Projected	11.33	0.40	0.028	11.09
WQ	1.25	0.09	0.003	1.03

Events for Subcatchment 49S: Pervious				
Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2-Year-Current	3.34	0.28	0.021	1.51
2-Year-Projected	3.84	0.36	0.027	1.91
10-Year-Current	5.11	0.55	0.042	2.99
10-Year-Projected	5.86	0.69	0.052	3.66
100-Year-Current	8.66	1.13	0.088	6.25
100-Year-Projected	11.33	1.60	0.125	8.80
WQ	1.25	0.07	0.002	0.17

Events for Pond 44P: Prop. Basin				
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
2-Year-Current	2.42	0.68	135.09	4,128
2-Year-Projected	2.96	0.92	135.33	4,771
10-Year-Current	4.16	1.50	135.90	6,366
10-Year-Projected	5.01	2.98	136.08	6,901
100-Year-Current	7.75	7.58	136.23	7,331
100-Year-Projected	10.68	10.43	136.31	7,538
WQ	1.38	0.00	134.30	2,036

Events for Pond 45P: Pervious Pavement

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
2-Year-Current	2.88	0.23	133.43	5,068
2-Year-Projected	3.34	0.26	133.65	5,874
10-Year-Current	4.49	0.31	134.22	7,937
10-Year-Projected	5.18	0.34	134.55	9,177
100-Year-Current	7.72	1.14	135.49	12,592
100-Year-Projected	10.18	2.89	136.05	14,636
WQ	2.21	0.12	132.73	2,384

Events for Link 37L: DA Prop. Basin

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	2.42	2.42	0.00
2-Year-Projected	2.96	2.96	0.00
10-Year-Current	4.16	4.16	0.00
10-Year-Projected	5.01	5.01	0.00
100-Year-Current	7.75	7.75	0.00
100-Year-Projected	10.68	10.68	0.00
WQ	1.38	1.38	0.00

Events for Link 43L: POA 1 Total

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	1.06	1.06	0.00
2-Year-Projected	1.42	1.42	0.00
10-Year-Current	2.16	2.16	0.00
10-Year-Projected	3.83	3.83	0.00
100-Year-Current	9.19	9.19	0.00
100-Year-Projected	14.70	14.70	0.00
WQ	0.18	0.18	0.00

Events for Link 44L: DA Undetained

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2-Year-Current	0.32	0.32	0.00
2-Year-Projected	0.41	0.41	0.00
10-Year-Current	0.62	0.62	0.00
10-Year-Projected	0.76	0.76	0.00
100-Year-Current	1.22	1.22	0.00
100-Year-Projected	1.74	1.74	0.00
WQ	0.10	0.10	0.00

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2026-05 Proposed Hydrology

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EMERGENCY SPILLWAY CALCULATIONS



Overflow Spillway Calculations

Project: Proposed Site Improvements
Job #: 6201-26-00267
Location: Lawrence Township
Computed By: AP
Checked By: JH
Date: 5/19/2026

BASIN NAME

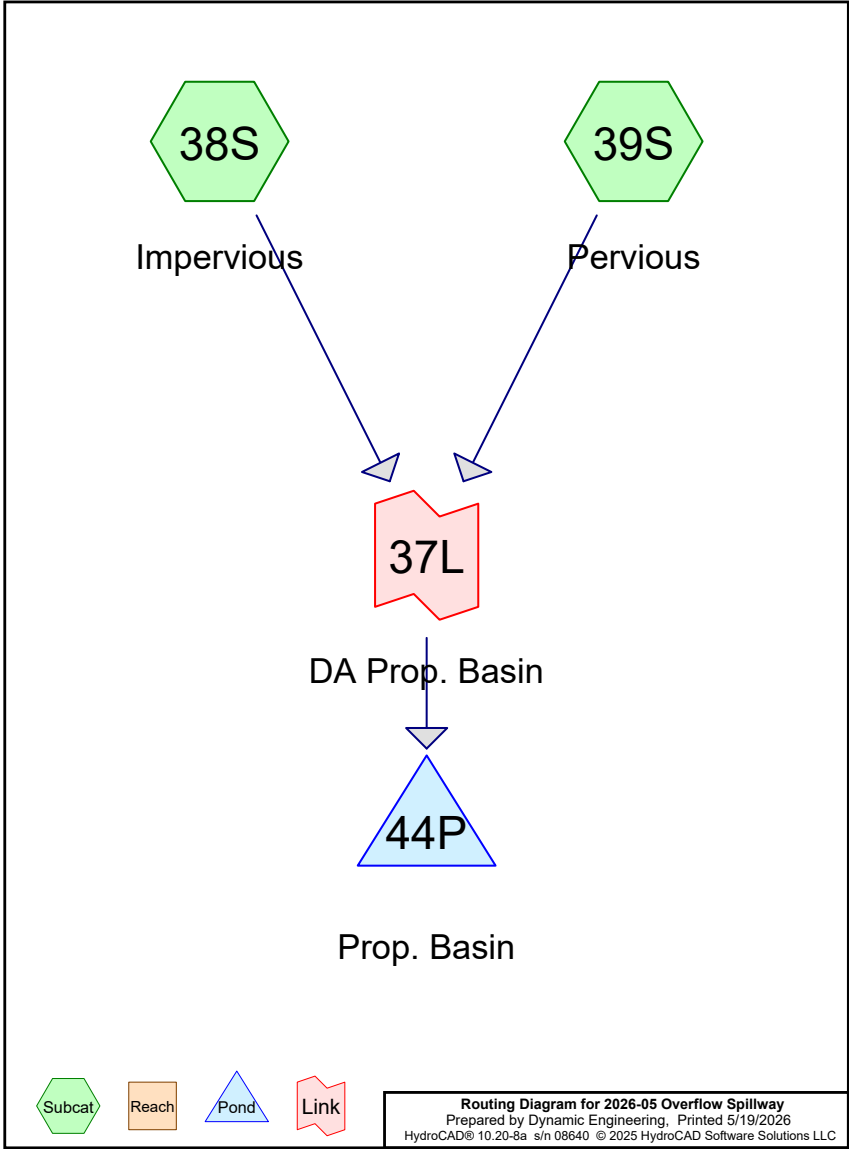
To Size Spillway:

- Assume complete blockage of the outlet control structure and no infiltration
- Route 2 & 10 year storm through basin assuming that the basin is filled with water up to the Emergency Spillway Elevation

	2 Year	10 Year
Spillway Width (ft.)	15.00	15.00
Spillway Elevation (ft.)	136.50	136.50
Flow through Spillway (Q) (cfs)	2.240	3.940
Water Surface Elevation (ft)	136.65	136.72
Depth of Flow (ft)	0.15	0.22
Area of Flow (A) (sf)*	2.27	3.35

Velocity (V) = Q / A (ft/sec) **0.99** **1.18**

** V = < 2.0 FPS ** Stability Achieved



2026-05 Overflow Spillway

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2-Year-Current	NOAA 24-hr	C	Default	24.00	1	3.34	2	3.34
2	10-Year-Current	NOAA 24-hr	C	Default	24.00	1	5.11	2	3.34

2026-05 Overflow Spillway

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.670	80	>75% Grass cover, Good, HSG D (39S)
0.430	98	Paved parking, HSG B (38S)
1.100	87	TOTAL AREA

2026-05 Overflow Spillway

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.430	HSG B	38S
0.000	HSG C	
0.670	HSG D	39S
0.000	Other	
1.100		TOTAL AREA

2026-05 Overflow Spillway

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.670	0.000	0.670	>75% Grass cover, Good	39S
0.000	0.430	0.000	0.000	0.000	0.430	Paved parking	38S
0.000	0.430	0.000	0.670	0.000	1.100	TOTAL AREA	

2026-05 Overflow Spillway

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	38S	0.00	0.00	272.0	0.0050	0.012	0.0	15.0	0.0	
2	39S	0.00	0.00	278.0	0.0050	0.012	0.0	15.0	0.0	

Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment38S: Impervious Runoff Area=0.430 ac 100.00% Impervious Runoff Depth=4.87"
Flow Length=469' Tc=3.7 min CN=98 Runoff=2.47 cfs 0.175 af

Subcatchment39S: Pervious Runoff Area=0.670 ac 0.00% Impervious Runoff Depth=2.99"
Flow Length=398' Tc=10.5 min CN=80 Runoff=2.17 cfs 0.167 af

Pond 44P: Prop. Basin Peak Elev=136.72' Storage=8,767 cf Inflow=4.16 cfs 0.342 af
Outflow=3.94 cfs 0.342 af

Link 37L: DA Prop. Basin Inflow=4.16 cfs 0.342 af
Primary=4.16 cfs 0.342 af

Total Runoff Area = 1.100 ac Runoff Volume = 0.342 af Average Runoff Depth = 3.73"
60.91% Pervious = 0.670 ac 39.09% Impervious = 0.430 ac

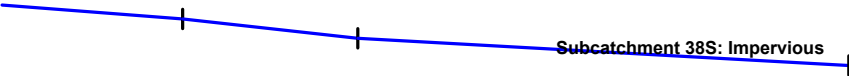
Summary for Subcatchment 38S: Impervious

[49] Hint: Tc<2dt may require smaller dt

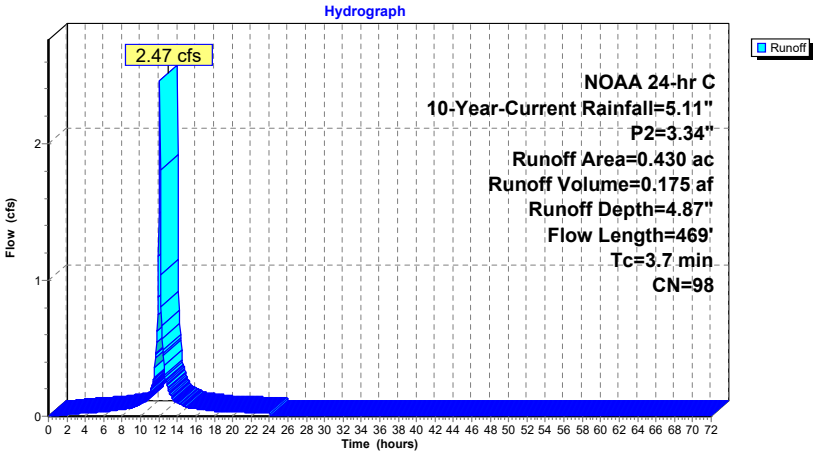
Runoff = 2.47 cfs @ 12.10 hrs, Volume= 0.175 af, Depth= 4.87"
Routed to Link 37L : DA Prop. Basin

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description			
0.430	98	Paved parking, HSG B			
0.430		100.00% Impervious Area			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0070	0.92		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.34" Shallow Concentrated Flow, Paved Kv= 20.3 fps Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.8	97	0.0100	2.03		
1.1	272	0.0050	4.03	4.95	
3.7	469	Total			



Subcatchment 38S: Impervious



Hydrograph for Subcatchment 38S: Impervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	4.87	0.00
1.00	0.06	0.00	0.00	53.00	5.11	4.87	0.00
2.00	0.12	0.02	0.01	54.00	5.11	4.87	0.00
3.00	0.18	0.06	0.02	55.00	5.11	4.87	0.00
4.00	0.25	0.11	0.02	56.00	5.11	4.87	0.00
5.00	0.32	0.17	0.03	57.00	5.11	4.87	0.00
6.00	0.40	0.23	0.03	58.00	5.11	4.87	0.00
7.00	0.50	0.32	0.04	59.00	5.11	4.87	0.00
8.00	0.61	0.42	0.05	60.00	5.11	4.87	0.00
9.00	0.75	0.55	0.06	61.00	5.11	4.87	0.00
10.00	0.93	0.72	0.09	62.00	5.11	4.87	0.00
11.00	1.23	1.01	0.17	63.00	5.11	4.87	0.00
12.00	2.44	2.21	1.49	64.00	5.11	4.87	0.00
13.00	3.88	3.65	0.20	65.00	5.11	4.87	0.00
14.00	4.18	3.94	0.10	66.00	5.11	4.87	0.00
15.00	4.36	4.13	0.07	67.00	5.11	4.87	0.00
16.00	4.50	4.26	0.05	68.00	5.11	4.87	0.00
17.00	4.61	4.38	0.05	69.00	5.11	4.87	0.00
18.00	4.71	4.47	0.04	70.00	5.11	4.87	0.00
19.00	4.79	4.55	0.03	71.00	5.11	4.87	0.00
20.00	4.86	4.62	0.03	72.00	5.11	4.87	0.00
21.00	4.93	4.69	0.03				
22.00	4.99	4.76	0.03				
23.00	5.05	4.82	0.02				
24.00	5.11	4.87	0.03				
25.00	5.11	4.87	0.00				
26.00	5.11	4.87	0.00				
27.00	5.11	4.87	0.00				
28.00	5.11	4.87	0.00				
29.00	5.11	4.87	0.00				
30.00	5.11	4.87	0.00				
31.00	5.11	4.87	0.00				
32.00	5.11	4.87	0.00				
33.00	5.11	4.87	0.00				
34.00	5.11	4.87	0.00				
35.00	5.11	4.87	0.00				
36.00	5.11	4.87	0.00				
37.00	5.11	4.87	0.00				
38.00	5.11	4.87	0.00				
39.00	5.11	4.87	0.00				
40.00	5.11	4.87	0.00				
41.00	5.11	4.87	0.00				
42.00	5.11	4.87	0.00				
43.00	5.11	4.87	0.00				
44.00	5.11	4.87	0.00				
45.00	5.11	4.87	0.00				
46.00	5.11	4.87	0.00				
47.00	5.11	4.87	0.00				
48.00	5.11	4.87	0.00				
49.00	5.11	4.87	0.00				
50.00	5.11	4.87	0.00				
51.00	5.11	4.87	0.00				

Summary for Subcatchment 39S: Pervious

Runoff = 2.17 cfs @ 12.18 hrs, Volume= 0.167 af, Depth= 2.99"
Routed to Link 37L : DA Prop. Basin

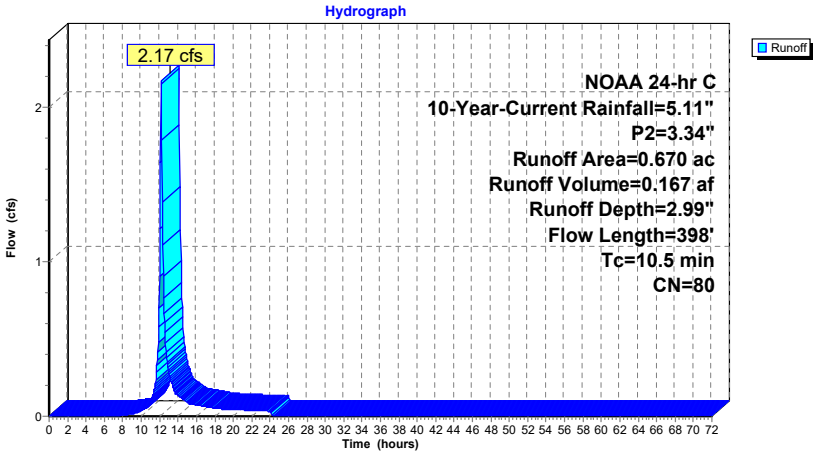
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr C 10-Year-Current Rainfall=5.11", P2=3.34"

Area (ac)	CN	Description			
0.670	80	>75% Grass cover, Good, HSG D			
0.670		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.1	72	0.0300	0.13		Sheet Flow, Grass: Dense n= 0.240 P2= 3.34" Using McCuen-Spiess flow length
0.3	48	0.0300	2.79		
1.1	278	0.0050	4.03	4.95	Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
					Pipe Channel, 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
10.5	398	Total			



Subcatchment 39S: Pervious



Hydrograph for Subcatchment 39S: Pervious

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	52.00	5.11	2.99	0.00
1.00	0.06	0.00	0.00	53.00	5.11	2.99	0.00
2.00	0.12	0.00	0.00	54.00	5.11	2.99	0.00
3.00	0.18	0.00	0.00	55.00	5.11	2.99	0.00
4.00	0.25	0.00	0.00	56.00	5.11	2.99	0.00
5.00	0.32	0.00	0.00	57.00	5.11	2.99	0.00
6.00	0.40	0.00	0.00	58.00	5.11	2.99	0.00
7.00	0.50	0.00	0.00	59.00	5.11	2.99	0.00
8.00	0.61	0.00	0.01	60.00	5.11	2.99	0.00
9.00	0.75	0.02	0.01	61.00	5.11	2.99	0.00
10.00	0.93	0.06	0.04	62.00	5.11	2.99	0.00
11.00	1.23	0.16	0.09	63.00	5.11	2.99	0.00
12.00	2.44	0.84	0.91	64.00	5.11	2.99	0.00
13.00	3.88	1.95	0.29	65.00	5.11	2.99	0.00
14.00	4.18	2.19	0.13	66.00	5.11	2.99	0.00
15.00	4.36	2.35	0.09	67.00	5.11	2.99	0.00
16.00	4.50	2.46	0.07	68.00	5.11	2.99	0.00
17.00	4.61	2.56	0.06	69.00	5.11	2.99	0.00
18.00	4.71	2.64	0.05	70.00	5.11	2.99	0.00
19.00	4.79	2.71	0.05	71.00	5.11	2.99	0.00
20.00	4.86	2.77	0.04	72.00	5.11	2.99	0.00
21.00	4.93	2.83	0.04				
22.00	4.99	2.89	0.04				
23.00	5.05	2.94	0.03				
24.00	5.11	2.99	0.03				
25.00	5.11	2.99	0.00				
26.00	5.11	2.99	0.00				
27.00	5.11	2.99	0.00				
28.00	5.11	2.99	0.00				
29.00	5.11	2.99	0.00				
30.00	5.11	2.99	0.00				
31.00	5.11	2.99	0.00				
32.00	5.11	2.99	0.00				
33.00	5.11	2.99	0.00				
34.00	5.11	2.99	0.00				
35.00	5.11	2.99	0.00				
36.00	5.11	2.99	0.00				
37.00	5.11	2.99	0.00				
38.00	5.11	2.99	0.00				
39.00	5.11	2.99	0.00				
40.00	5.11	2.99	0.00				
41.00	5.11	2.99	0.00				
42.00	5.11	2.99	0.00				
43.00	5.11	2.99	0.00				
44.00	5.11	2.99	0.00				
45.00	5.11	2.99	0.00				
46.00	5.11	2.99	0.00				
47.00	5.11	2.99	0.00				
48.00	5.11	2.99	0.00				
49.00	5.11	2.99	0.00				
50.00	5.11	2.99	0.00				
51.00	5.11	2.99	0.00				

Summary for Pond 44P: Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 3.73" for 10-Year-Current event
Inflow = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af
Outflow = 3.94 cfs @ 12.15 hrs, Volume= 0.342 af, Atten= 5%, Lag= 2.2 min
Primary = 3.94 cfs @ 12.15 hrs, Volume= 0.342 af
Routed to nonexistent node 43L

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 136.50' Surf.Area= 2,940 sf Storage= 8,108 cf
Peak Elev= 136.72' @ 12.15 hrs Surf.Area= 2,976 sf Storage= 8,767 cf (659 cf above start)

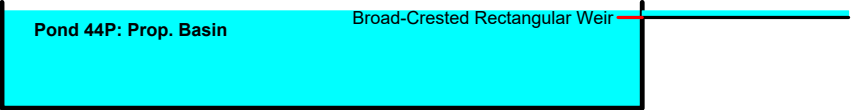
Plug-Flow detention time= 283.3 min calculated for 0.155 af (45% of inflow)
Center-of-Mass det. time= 5.9 min (792.2 - 786.3)

Volume	Invert	Avail.Storage	Storage Description
#1	133.50'	9,598 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

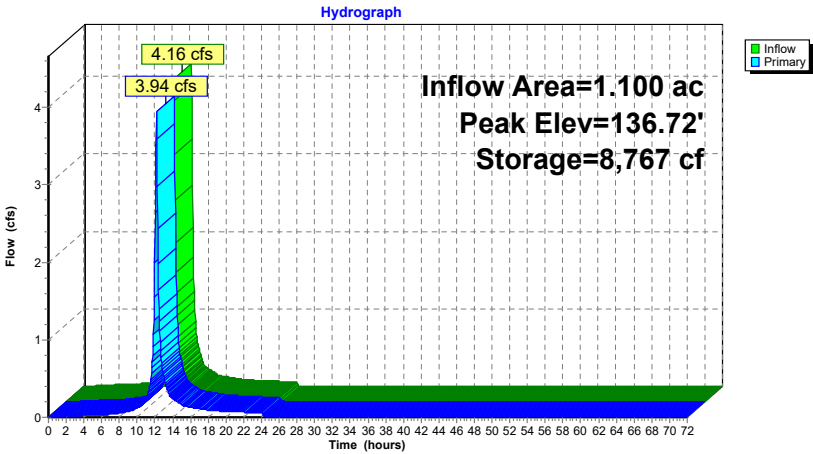
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
133.50	2,460	0	0
134.00	2,550	1,253	1,253
135.00	2,700	2,625	3,878
136.00	2,860	2,780	6,658
137.00	3,020	2,940	9,598

Device	Routing	Invert	Outlet Devices
#1	Primary	136.50'	15.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

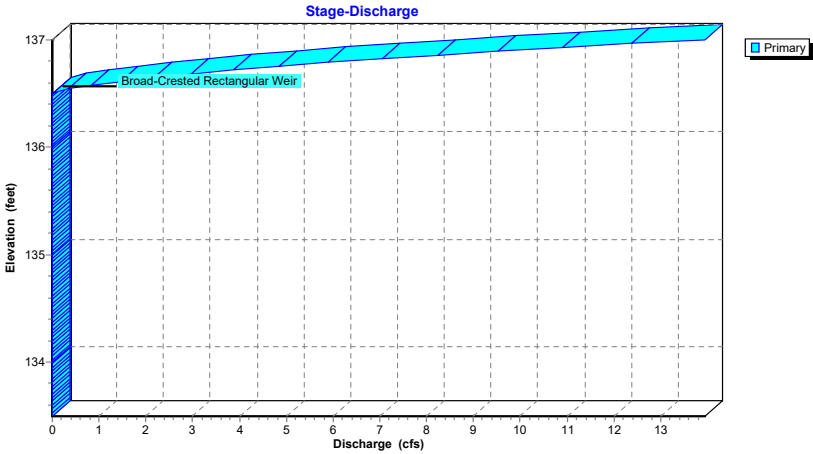
Primary OutFlow Max=3.92 cfs @ 12.15 hrs HW=136.72' (Free Discharge)
1=Broad-Crested Rectangular Weir (Weir Controls 3.92 cfs @ 1.18 fps)



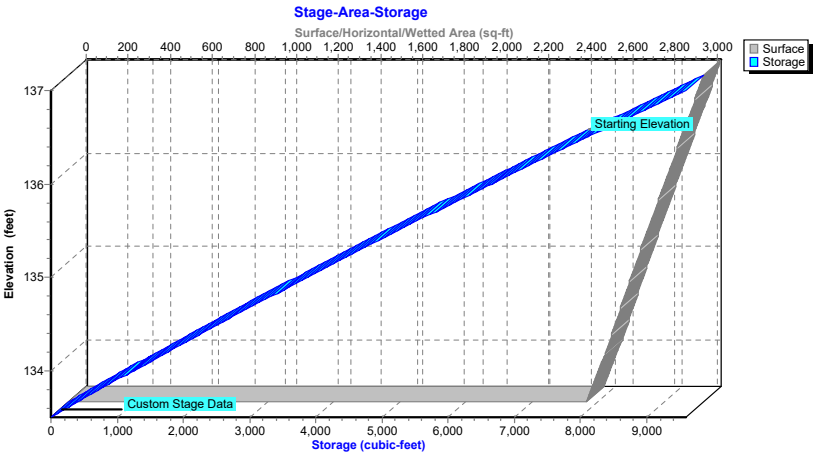
Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Pond 44P: Prop. Basin



Hydrograph for Pond 44P: Prop. Basin

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	8,108	136.50	0.00
2.50	0.02	8,119	136.50	0.01
5.00	0.03	8,128	136.51	0.03
7.50	0.05	8,140	136.51	0.05
10.00	0.13	8,164	136.52	0.12
12.50	1.11	8,409	136.60	1.24
15.00	0.16	8,178	136.52	0.16
17.50	0.10	8,157	136.52	0.10
20.00	0.07	8,149	136.51	0.07
22.50	0.06	8,145	136.51	0.06
25.00	0.00	8,108	136.50	0.00
27.50	0.00	8,108	136.50	0.00
30.00	0.00	8,108	136.50	0.00
32.50	0.00	8,108	136.50	0.00
35.00	0.00	8,108	136.50	0.00
37.50	0.00	8,108	136.50	0.00
40.00	0.00	8,108	136.50	0.00
42.50	0.00	8,108	136.50	0.00
45.00	0.00	8,108	136.50	0.00
47.50	0.00	8,108	136.50	0.00
50.00	0.00	8,108	136.50	0.00
52.50	0.00	8,108	136.50	0.00
55.00	0.00	8,108	136.50	0.00
57.50	0.00	8,108	136.50	0.00
60.00	0.00	8,108	136.50	0.00
62.50	0.00	8,108	136.50	0.00
65.00	0.00	8,108	136.50	0.00
67.50	0.00	8,108	136.50	0.00
70.00	0.00	8,108	136.50	0.00

Stage-Discharge for Pond 44P: Prop. Basin

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
133.50	0.00	134.54	0.00	135.58	0.00	136.62	1.55
133.52	0.00	134.56	0.00	135.60	0.00	136.64	1.96
133.54	0.00	134.58	0.00	135.62	0.00	136.66	2.39
133.56	0.00	134.60	0.00	135.64	0.00	136.68	2.85
133.58	0.00	134.62	0.00	135.66	0.00	136.70	3.34
133.60	0.00	134.64	0.00	135.68	0.00	136.72	3.86
133.62	0.00	134.66	0.00	135.70	0.00	136.74	4.42
133.64	0.00	134.68	0.00	135.72	0.00	136.76	4.99
133.66	0.00	134.70	0.00	135.74	0.00	136.78	5.60
133.68	0.00	134.72	0.00	135.76	0.00	136.80	6.22
133.70	0.00	134.74	0.00	135.78	0.00	136.82	6.88
133.72	0.00	134.76	0.00	135.80	0.00	136.84	7.55
133.74	0.00	134.78	0.00	135.82	0.00	136.86	8.25
133.76	0.00	134.80	0.00	135.84	0.00	136.88	8.97
133.78	0.00	134.82	0.00	135.86	0.00	136.90	9.71
133.80	0.00	134.84	0.00	135.88	0.00	136.92	10.51
133.82	0.00	134.86	0.00	135.90	0.00	136.94	11.33
133.84	0.00	134.88	0.00	135.92	0.00	136.96	12.18
133.86	0.00	134.90	0.00	135.94	0.00	136.98	13.05
133.88	0.00	134.92	0.00	135.96	0.00	137.00	13.95
133.90	0.00	134.94	0.00	135.98	0.00		
133.92	0.00	134.96	0.00	136.00	0.00		
133.94	0.00	134.98	0.00	136.02	0.00		
133.96	0.00	135.00	0.00	136.04	0.00		
133.98	0.00	135.02	0.00	136.06	0.00		
134.00	0.00	135.04	0.00	136.08	0.00		
134.02	0.00	135.06	0.00	136.10	0.00		
134.04	0.00	135.08	0.00	136.12	0.00		
134.06	0.00	135.10	0.00	136.14	0.00		
134.08	0.00	135.12	0.00	136.16	0.00		
134.10	0.00	135.14	0.00	136.18	0.00		
134.12	0.00	135.16	0.00	136.20	0.00		
134.14	0.00	135.18	0.00	136.22	0.00		
134.16	0.00	135.20	0.00	136.24	0.00		
134.18	0.00	135.22	0.00	136.26	0.00		
134.20	0.00	135.24	0.00	136.28	0.00		
134.22	0.00	135.26	0.00	136.30	0.00		
134.24	0.00	135.28	0.00	136.32	0.00		
134.26	0.00	135.30	0.00	136.34	0.00		
134.28	0.00	135.32	0.00	136.36	0.00		
134.30	0.00	135.34	0.00	136.38	0.00		
134.32	0.00	135.36	0.00	136.40	0.00		
134.34	0.00	135.38	0.00	136.42	0.00		
134.36	0.00	135.40	0.00	136.44	0.00		
134.38	0.00	135.42	0.00	136.46	0.00		
134.40	0.00	135.44	0.00	136.48	0.00		
134.42	0.00	135.46	0.00	136.50	0.00		
134.44	0.00	135.48	0.00	136.52	0.11		
134.46	0.00	135.50	0.00	136.54	0.30		
134.48	0.00	135.52	0.00	136.56	0.55		
134.50	0.00	135.54	0.00	136.58	0.85		
134.52	0.00	135.56	0.00	136.60	1.18		

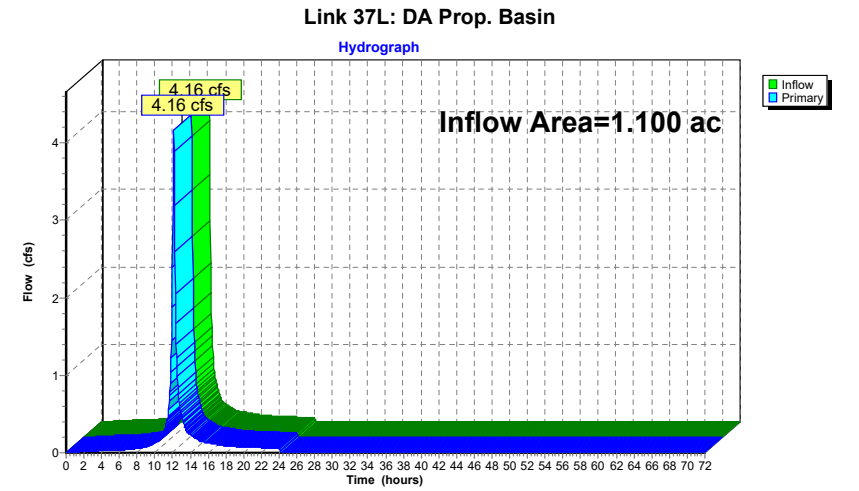
Stage-Area-Storage for Pond 44P: Prop. Basin

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
133.50	2,460	0	136.10	2,876	6,944
133.55	2,469	123	136.15	2,884	7,088
133.60	2,478	247	136.20	2,892	7,233
133.65	2,487	371	136.25	2,900	7,378
133.70	2,496	496	136.30	2,908	7,523
133.75	2,505	621	136.35	2,916	7,668
133.80	2,514	746	136.40	2,924	7,814
133.85	2,523	872	136.45	2,932	7,961
133.90	2,532	998	136.50	2,940	8,108
133.95	2,541	1,125	136.55	2,948	8,255
134.00	2,550	1,253	136.60	2,956	8,402
134.05	2,558	1,380	136.65	2,964	8,550
134.10	2,565	1,508	136.70	2,972	8,699
134.15	2,573	1,637	136.75	2,980	8,848
134.20	2,580	1,765	136.80	2,988	8,997
134.25	2,588	1,895	136.85	2,996	9,146
134.30	2,595	2,024	136.90	3,004	9,296
134.35	2,602	2,154	136.95	3,012	9,447
134.40	2,610	2,285	137.00	3,020	9,598
134.45	2,617	2,415			
134.50	2,625	2,546			
134.55	2,633	2,678			
134.60	2,640	2,809			
134.65	2,648	2,942			
134.70	2,655	3,074			
134.75	2,663	3,207			
134.80	2,670	3,341			
134.85	2,677	3,474			
134.90	2,685	3,608			
134.95	2,692	3,743			
135.00	2,700	3,878			
135.05	2,708	4,013			
135.10	2,716	4,148			
135.15	2,724	4,284			
135.20	2,732	4,421			
135.25	2,740	4,558			
135.30	2,748	4,695			
135.35	2,756	4,832			
135.40	2,764	4,970			
135.45	2,772	5,109			
135.50	2,780	5,248			
135.55	2,788	5,387			
135.60	2,796	5,526			
135.65	2,804	5,666			
135.70	2,812	5,807			
135.75	2,820	5,948			
135.80	2,828	6,089			
135.85	2,836	6,230			
135.90	2,844	6,372			
135.95	2,852	6,515			
136.00	2,860	6,658			
136.05	2,868	6,801			

Summary for Link 37L: DA Prop. Basin

Inflow Area = 1.100 ac, 39.09% Impervious, Inflow Depth = 3.73" for 10-Year-Current event
Inflow = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af
Primary = 4.16 cfs @ 12.12 hrs, Volume= 0.342 af, Atten= 0%, Lag= 0.0 min
Routed to Pond 44P : Prop. Basin

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



Hydrograph for Link 37L: DA Prop. Basin

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00
2.00	0.01	0.00	0.01
3.00	0.02	0.00	0.02
4.00	0.02	0.00	0.02
5.00	0.03	0.00	0.03
6.00	0.03	0.00	0.03
7.00	0.04	0.00	0.04
8.00	0.06	0.00	0.06
9.00	0.07	0.00	0.07
10.00	0.13	0.00	0.13
11.00	0.27	0.00	0.27
12.00	2.40	0.00	2.40
13.00	0.49	0.00	0.49
14.00	0.23	0.00	0.23
15.00	0.16	0.00	0.16
16.00	0.13	0.00	0.13
17.00	0.11	0.00	0.11
18.00	0.09	0.00	0.09
19.00	0.08	0.00	0.08
20.00	0.07	0.00	0.07
21.00	0.07	0.00	0.07
22.00	0.06	0.00	0.06
23.00	0.06	0.00	0.06
24.00	0.06	0.00	0.06
25.00	0.00	0.00	0.00
26.00	0.00	0.00	0.00
27.00	0.00	0.00	0.00
28.00	0.00	0.00	0.00
29.00	0.00	0.00	0.00
30.00	0.00	0.00	0.00
31.00	0.00	0.00	0.00
32.00	0.00	0.00	0.00
33.00	0.00	0.00	0.00
34.00	0.00	0.00	0.00
35.00	0.00	0.00	0.00
36.00	0.00	0.00	0.00
37.00	0.00	0.00	0.00
38.00	0.00	0.00	0.00
39.00	0.00	0.00	0.00
40.00	0.00	0.00	0.00
41.00	0.00	0.00	0.00
42.00	0.00	0.00	0.00
43.00	0.00	0.00	0.00
44.00	0.00	0.00	0.00
45.00	0.00	0.00	0.00
46.00	0.00	0.00	0.00
47.00	0.00	0.00	0.00
48.00	0.00	0.00	0.00
49.00	0.00	0.00	0.00
50.00	0.00	0.00	0.00
51.00	0.00	0.00	0.00

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STORMWATER COLLECTION SYSTEM CALCULATIONS (PIPE SIZING)



Stormwater Collection System Calculations

Project: Prop.Site Improvements
Job #: 6201-26-00267
Location: Lawrence
Design Storm: 25 YR

Computed By: AP
Checked By: JH
Date: 5/19/2026
Revised:

NOTES:

- 1) Design method used is Rational Method
- 2) Refer to Weighted Runoff Coefficient table for calculation of incremental areas and C values
- 3) OCS was designed to manage 100-YR storm

PIPE SECTION		SUBCATCHMENT AREA	INCREMENTAL		CUMULATIVE	TIME OF CONCENTRATION			I	PEAK RUNOFF		PIPING INPUT			PIPING DATA			
FROM	TO	Area (Acres)	"C"	A x C Ac	A x C (acres)	Tc to Inlet (min)	Tc in Pipe (min.)	Final Tc (min)	(In/Hr)	Q to Inlet (CFS)	Q cum. for Pipe (CFS)	Dia. (In)	Length (Ft)	Man. "n"	Slope (ft/ft)	Pipe Capacity (cfs)	Full Pipe Velocity (fps)	Actual Pipe Velocity (fps)
A-132	A-Ex Inlet	0.35	0.35	0.12	0.12	10.00	0.03	10.00	6.80	0.82	0.82	12	6.0	0.012	0.0050	2.73	3.48	2.70
A-131	A-Ex Inlet	0.98	0.08	0.08	0.08	10.00	0.06	10.00	6.80	0.54	0.54	15	15.0	0.012	0.0050	4.95	4.04	1.72
A-Ex Inlet	A-130	0.31	0.98	0.30	0.50	10.00	0.26	10.06	6.80	2.04	3.40	15	64.0	0.012	0.0050	4.95	4.04	4.51
A-130	HW A-100	0.21	0.89	0.19	0.69	10.00	0.86	10.32	6.80	1.29	4.69	15	209.0	0.012	0.0050	4.95	4.04	4.43
B-300	C/O 1	0.03	0.35	0.01	0.01	10.00	1.18	10.00	6.80	0.07	0.07	12	247.0	0.012	0.0050	2.73	3.48	0.64
Roof A	C/O 1	0.98	0.05	0.05	0.05	10.00	0.37	10.00	6.80	0.34	0.34	12	78.0	0.012	0.0050	2.73	3.48	1.57
Roof B	C/O 1	0.06	0.98	0.06	0.06	10.00	0.13	10.00	6.80	0.41	0.41	12	27.0	0.012	0.0050	2.73	3.48	1.80
Roof C	C/O 1	0.05	0.98	0.05	0.05	10.00	0.05	10.00	6.80	0.34	0.34	12	10.0	0.012	0.0050	2.73	3.48	1.57
C/O 1	PP	0.00	0.00	0.00	0.17	10.00	0.32	11.18	6.56	0.00	1.12	12	67.0	0.012	0.0050	2.73	3.48	3.18
Roof D	C/O 2	0.06	0.98	0.06	0.06	10.00	0.02	10.00	6.80	0.41	0.41	12	5.0	0.012	0.0050	2.73	3.48	1.80
Roof E	C/O 2	0.02	0.98	0.02	0.02	10.00	0.63	10.00	6.80	0.14	0.14	12	131.0	0.012	0.0050	2.73	3.48	0.90
Roof F	C/O 2	0.02	0.98	0.02	0.02	10.00	0.28	10.00	6.80	0.14	0.14	12	59.0	0.012	0.0050	2.73	3.48	0.90
C/O 2	PP	0.00	0.00	0.00	0.12	10.00	0.10	10.63	6.68	0.00	0.80	12	21.0	0.012	0.0050	2.73	3.48	2.65

CONDUIT OUTLET PROTECTION CALCULATIONS

Conduit Outlet Protection Calculations

Rip Rap Pad # 1

Design Parameters:

Design Storm Flow for 25 Year, Q	4.69 cfs
Vertical Dimension of Outlet Pipe, D_o	15 in
Horizontal Dimension of Outlet Pipe, W_o	15 in
Tailwater Depth, TW^1	0.79 ft

Apron Dimension Calculations:

Unit Discharge, $q = Q/D_o = 3.75$ cfs per foot

• Case I: $TW < 1/2 D_o$

$$\text{Apron Length, } L_a = \frac{1.8q}{D_o^{1/2}} + 7D_o =$$

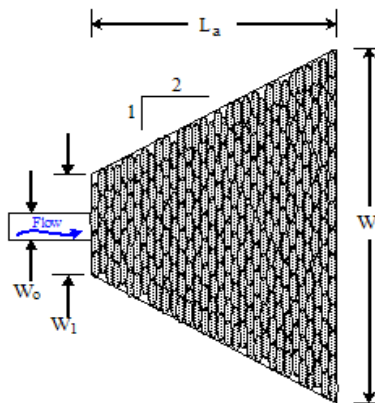
$$\text{Width, } W_1 = 3W_o =$$

$$\text{Width, } W_2 = 3W_o + L_a =$$

$$L_a =$$

$$W_1 =$$

$$W_2 =$$



• Case II: $TW \geq 1/2 D_o$

$$\text{Apron Length, } L_a = \frac{3q}{D_o^{1/2}} = 10.07 \text{ ft}$$

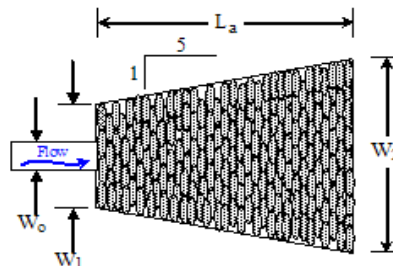
$$\text{Width, } W_1 = 3W_o = 3.75 \text{ ft}$$

$$\text{Width, } W_2 = 3W_o + 0.4L_a = 7.78 \text{ ft}$$

$$\text{or } L_a = 11 \text{ ft}$$

$$\text{or } W_1 = 4 \text{ ft}$$

$$\text{or } W_2 = 8 \text{ ft}$$



Rip Rap Stone Size Calculations:

$$\text{Median Stone, } d_{50} = \frac{0.02q^{1.33}}{TW} = 1.76 \text{ in}$$

$$d_{50} = 6 \text{ in}$$

Notes:

1. Where there is a well-defined channel downstream of the apron, the bottom width of the apron shall be at least equal to the bottom width of the channel and the structural lining shall extend at least one foot above the tailwater elevation, but no lower than two-thirds of the vertical conduit dimension above the conduit invert.
2. The side slopes shall be 2:1 or flatter.
3. The bottom grade shall be 0.0% (level).
4. There shall be no overfall at the end of the apron or at the end of the culvert.
5. Fifty (50) percent by weight of the rip-rap mixture shall be smaller than the median size stone designated as d_{50} . The largest stone size in the mixture shall be 1.5 times the d_{50} size. The rip-rap shall be reasonably well graded.
6. The thickness of the rip-rap apron may be two (2) times the median stone diameter provided that the apron is constructed on a bedding of four (4) inches of 3/4 inch clean stone on approved filter fabric material.
7. Rip-rap and filter fabric shall meet the standards of the governing Soil Conservation District as well as the requirements of the local municipality.
8. No bends or curves at the intersection of the conduit and apron will be permitted.

Footnote:

1. Tailwater depth shall be the 2-year storm if discharging into a detention basin. For areas where tailwater cannot be computed, use $TW = 0.2D_o$.
2. For multiple pipes, increase rip-rap sizes by 25% when pipe spacing is greater than or equal to $1/4W_o$.

GROUNDWATER RECHARGE CALCULATIONS

Annual Groundwater Recharge Analysis (based on GSR-32)

Select Township ↓	Average Annual P (in)	Climatic Factor
MERCER CO., LAWRENCE TWP	44.9	1.43

Project Name: 6201-26-00267

Description: Prop. Site Improvements

Analysis Date: 05/19/26

Pre-Developed Conditions

Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	0.59	Impervious areas	Urban Land*	0.0	-
2	1.51	Impervious areas	Urban Land*	0.0	-
3					
4					
5					
6					
7	0				
8	0				
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	2.1			Total Annual Recharge (in)	Total Annual Recharge (cu.ft)
				0.0	-

Post-Developed Conditions

Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	1.17	Impervious areas	Urban Land*	0.0	-
2	0.93	Open space	Urban Land*	0.0	-
3					
4	0				
5	0				
6	0				
7	0				
8	0				
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	2.1			Total Annual Recharge (in)	Total Annual Recharge (cu.ft)
				0.0	-

Annual Recharge Requirements Calculation ↓

% of Pre-Developed Annual Recharge to Preserve =	100%	Total Impervious Area (sq.ft)	50,965
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Post-Development Annual Recharge Deficit=

0

(cubic feet)

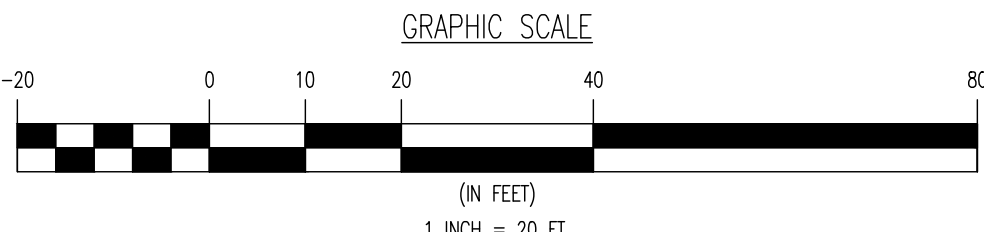
Recharge Efficiency Parameters Calculations (area averages)

RWC= 0.00	(in)	DRWC= 0.00	(in)
ERWC = 0.00	(in)	EDRWC= 0.00	(in)

Procedure to fill the Pre-Development and Post-Development Conditions Tables

For each land segment, first enter the area, then select TR-55 Land Cover, then select Soil. Start from the top of the table and proceed downward. Don't leave blank rows (with A=0) in between your segment entries. Rows with A=0 will not be displayed or used in calculations. For impervious areas outside of standard lots select "Impervious Areas" as the Land Cover. Soil type for impervious areas are only required if an infiltration facility will be built within these areas.

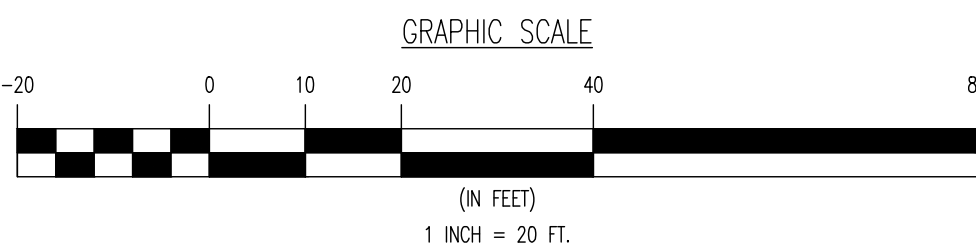
DRAINAGE AREA & INLET AREA MAPS



(68' WIDE PUBLIC R.O.
PER DEEDS, TAX MAP, & NJ
(ASPHALT ROADWAY)
(TWO-WAY TRAFFIC)



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Plotted: 05/20/26 - 9:45 AM, By: kkirrk, - Product Ver: 25.1
 File: P:\DECPC PROJECTS\6201 Hope Presbyterian Church\26-00267 Inwrence\Draw\DA Maps\D62012600267DPO.dwg. ----> 02 PROPOSED DRAINAGE AREA MAP

