

# STONEFIELD

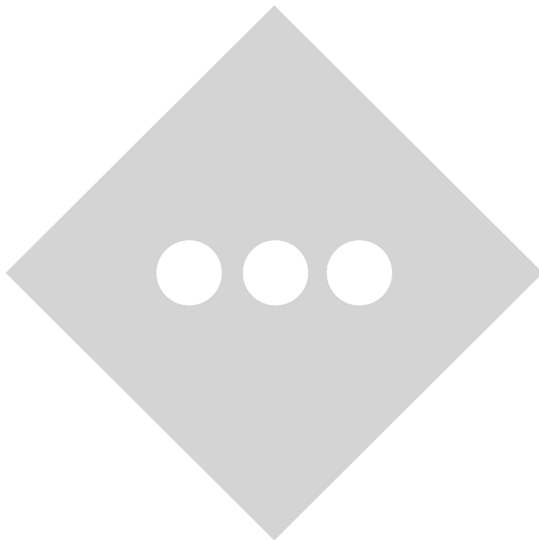
## STORMWATER MANAGEMENT REPORT

**PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT  
BLOCK 801, LOT 20  
84-90 EAST MAIN STREET  
BOROUGH OF MENDHAM  
MORRIS COUNTY, NEW JERSEY**

**PREPARED FOR:  
V-FEE MENDHAM APARTMENT, LLC**

**PREPARED BY:  
STONEFIELD ENGINEERING & DESIGN, LLC  
92 PARK AVENUE  
RUTHERFORD, NEW JERSEY**

**REPORT DATE:  
OCTOBER 20, 2022  
REVISED: MAY 19, 2023**



A handwritten signature in dark ink, appearing to read "Chuck D. Olivo". The signature is written in a cursive, slightly slanted style.

**CHUCK D. OLIVO, PE, PP, PTOE  
NJ PE LICENSE #46719**

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING AND PREPARING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR KNOWINGLY SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

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## **I.0 PROJECT DESCRIPTION**

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V-Fee Mendham Apartments, LLC is proposing to redevelop Block 801, Lot 20 (herein referred to as “project site”) to accommodate a multi-family residential building, tenant premium parking, and residential amenity facilities at the northerly end of the project site where an athletic facility currently exists. Additional site improvements are being provided within the shopping center that fronts East Main Street (County Route 510) on the southerly end of the project site. Associated improvements include off-street parking areas, driveways, lighting fixtures, landscaping, stormwater infrastructure and other features as depicted within the site plan set prepared by our office and included with this Report. The project site is located within the Borough of Mendham and is bounded by woods, wetland areas and a stream to the north, various commercial uses to the east and south, and residential dwellings to the west. Refer to **APPENDIX A** for project maps of the subject site.

**The total project area is 577,865 SF (13.27 acres), the impervious surfaces on site are proposed to be reduced by 34,082 SF (0.80 acres), the total area of new motor vehicle surfaces is 32,211 SF (0.74 acres), and the total limit of work is 564,855 SF (12.97 acres).**

This Stormwater Management Report has been prepared to analyze the potential stormwater runoff impacts of the proposed redevelopment and discuss the measures proposed to conform to the stormwater management requirements set forth by the Borough of Mendham, Morris County Soil Conservation District, and the New Jersey Department of Environmental Protection (NJDEP).

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## **2.0 EXISTING CONDITIONS**

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### **EXISTING SITE DEVELOPMENT**

Under existing conditions, the northern portion of the project site is currently occupied by the Mendham Health & Racquet Club. The lower portion of the project site consists of a shopping center with various uses including a grocery store, drug store, laundromat, bank, and various restaurants. Access to the site is provided via three full-movement driveways along East Main Street. An Aerial Map depicting the existing site conditions can be found in **APPENDIX A**.

**EXISTING TOPOGRAPHY**

The developed portions of the subject site are generally flat and conform with typical slopes associated with commercial development (1% - 5%). The undeveloped portions of the site on the northerly end are steeper due to the existing wetlands ditches and unnamed tributaries within the wooded areas (5% - 35%). The high point of the subject site is at the southerly end of the property abutting East Main Street. Stormwater runoff from the site drains north through the parking lot and is collected by various inlets throughout the site. The runoff that is collected goes through an onsite structural conveyance system and is ultimately released through one of two discharge points to the unnamed tributary within the wooded area north of the project site.

**PROJECT SITE SOILS**

Soil mapping was obtained from the National Resource Conservation Service (NRCS) for the project site and immediate area. The project site is underlain with three (3) major soil groups: Gladstone gravelly loam, Cokesbury loam and Califon variant. Overall, the soils have a low percolation rate and are unsuitable for runoff infiltration except for the Gladstone region, unfortunately this is a very small area of the project area (0.1%) and located on the highest end of the site. The table below provide a summary of soils for the disturbed portion of the project site:

**TABLE I: NRCS SOIL MAPPING RESULTS**

<b>Soil Unit Symbol</b>	<b>Soil Unit Description</b>	<b>Approximate Project Coverage</b>	<b>Drainage Class</b>	<b>Hydrologic Soil Group</b>
CapfB	Califon variant loam, 3 to 8 percent slopes	51.3%	Somewhat poorly drained	C
CoaBc	Cokesbury loam, 0 to 8 percent slopes, extremely stony	48.6%	Poorly drained	D
GkaoB	Gladstone, gravelly loam, 3 to 8 percent slopes	0.1%	Well drained	B

Additional information regarding the NRCS soil mapping can be found in **APPENDIX B**.

## **3.0 PROPOSED CONDITIONS**

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### **PROPOSED SITE DEVELOPMENT**

Under the proposed development plan, the northern portion of the project site will include a multi-family residential building consisting of 75 total units, tenant premium parking, automotive sales and service, and a recreational facility. Additional improvements include parking, landscaping, utilities, site lighting and stormwater management measures. Improvements to the lower portion of the project site include mill and overlay, full depth asphalt, landscaping, and stormwater management measures. Proposed stormwater onsite is being collected via the existing inlets and pipes, proposed inlets and pipes, proposed pervious pavement, and proposed roof leaders, and is being sent directly to the two (2) discharge points at the northwest and northeast corners of the site. Refer to **APPENDIX A** for a half-size Site Plan depicting the proposed project improvements.

### **PROPOSED TOPOGRAPHY**

Project site topography and conveyance will generally maintain the predevelopment drainage patterns; however, to improve the accessibility and circulation the proposed topography will be more gradually sloped and will include the implementation of new catch basins, pipes, and pervious pavement systems. The proposed conveyance system will convey runoff to the two existing discharge points in order to maintain existing drainage patterns to the maximum extent feasible.

### **SUBSURFACE STORMWATER INVESTIGATION**

A “Stormwater Area Evaluation” report was performed by Whitestone Associates, Inc. (report dated March 21, 2023), which consisted of twenty-two (22) soil test pits being performed onsite in compliance with the soil testing standards outlined within Appendix E of the NJDEP Best Management Practices (BMP) Manual. The soils onsite primarily consisted of silty clay ranging from depths of 0.5 to 12.0 feet below grade. Bedrock was not encountered onsite.

Soil dampness was encountered at depths of 1.3 to >10.0 feet below grade throughout the site where test pit infiltration tests were performed at depths of 0.5 to 6.0 feet below grade. The table on the following page provides a summary of the tested infiltration rates of the soils for the project site:

**TABLE 2: INFILTRATION/PERMEABILITY TEST SUMMARY**

Test Pit #	Estimated SHGW (fbgs)	USDA Classification @ Test	Depth of Test (fbgs)	In-Situ Rate @ Test (in/hour)
SPP-1	2.2	Silty Clay	0.5	<0.2
SPP-2	8.7	Silty Clay	5.0	<0.2
SPP-3	8.2	Silty Clay	5.0	<0.2
SPP-4	6.0	Silty Clay	4.0	<0.2
SPP-5	6.6	Silty Clay	4.0	<0.2
SPP-6	1.3	Silty Clay	0.5	<0.2
SPP-7	6.2	Silty Clay	4.0	<0.2
SPP-8	7.3	Silty Clay	5.0	<0.2
SPP-9	8.0	Silty Clay	4.0	<0.2
SPP-10	10.0	Silty Clay	6.0	<0.2
SPP-11	2.8	Silty Clay	0.5	<0.2
SPP-12	6.0	Silty Clay	4.0	<0.2
SPP-13	5.5	Silty Clay	3.0	<0.2
SPP-14	7.5	Silty Clay	4.0	<0.2
SPP-15	7.5	Silty Clay	4.0	<0.2
SPP-16	8.1	Silty Clay	6.0	<0.2
SPP-17	9.0	Silty Clay	6.0	<0.2
SPP-18	6.7	Silty Clay	4.0	<0.2
SPP-19	7.0	Silty Clay	5.0	<0.2
SPP-20	5.0	Silty Clay	3.0	<0.2
SPP-21	5.4	Silty Clay	3.0	<0.2
SPP-22	6.2	Silty Clay	4.0	<0.2

Due to the tested infiltration rates onsite and a seasonal high groundwater table, it was determined that infiltration practices would not be practical for this site. Refer to **APPENDIX B** for the full Geotechnical Investigation.

**ANTICIPATED ENVIRONMENTAL INVENTORY IMPACTS**

The proposed redevelopment will disturb land within environmentally regulated areas (flood hazard area, riparian zone, freshwater wetlands, and freshwater wetland transition areas). As such, permits and approvals will be sought from the NJDEP to perform work within these areas. The Borough and relevant jurisdictional agencies will be apprised of the NJDEP permitting status as the project moves forward.

**4.0 STORMWATER MANAGEMENT METHODOLOGY & PARAMETERS**

**HYDROLOGIC & HYDRAULIC METHODOLOGY**

The analysis program “HydroCAD” Version 10.2 by HydroCAD Software Solutions was utilized to calculate and plot the runoff hydrographs. The program incorporates the time of concentration, C values, rainfall data, and project drainage areas to calculate the runoff characteristics. The existing and proposed drainage areas have been analyzed utilizing Intensity-Duration-Frequency data was obtained from NOAA for the project area; specifics of the rainfall distribution can be found in **APPENDIX C**. Additional key variables utilized in the analysis include:

**TABLE 3: HYDROCAD DESIGN VARIABLES**

<b>Variable</b>	<b>Input</b>	<b>Variable</b>	<b>Input</b>
Runoff Calculation Method	SCS TR-20	NRCS Rainfall Frequency Data Set	Morris County
Pervious/Impervious CN Calculations	Separate	Storm Intervals (Year Events)	2, 10, 100
Stage-Storage Relationship	Dynamic	Storm Duration	24 Hours
Minimum time of concentration	Calculated	Storm Curve	NOAA D

Additional information regarding the hydrologic calculations can be found in **APPENDIX C**.

**NEW JERSEY STORMWATER DESIGN PARAMETERS**

The extent of redevelopment proposes to disturb more than one acre of land and add more than one-quarter acre of new motor vehicle surfaces (0.80 acres total); as such, it is considered a Major Development as defined in the Borough Ordinances and NJAC 7:8-1.2. A Major Development is subject to stormwater runoff quantity, quality, and groundwater recharge requirements. See the following page for a summary of each design parameter and compliance requirements:



**TABLE 4: PROJECT STORMWATER DESIGN INTENT SUMMARY TABLE**

Design Parameters	Design Intent for Compliance
Stormwater Quantity	<p>POI-1                      Design stormwater management measures so that the post-construction peak runoff rates for the 2-, 10-, and 100-year storm events are 50%, 75%, and 80%, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed.</p> <p>POI-2                      Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the 2-, 10-, and 100-year storm events do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events.</p>
Groundwater Recharge	<p>Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from pre-construction to post-construction for the two-storm is infiltrated.</p> <p>It should be noted that the proposed development will increase the amount of pervious land cover for the project site (0.76 acres) which will substantially reduce the quantity of runoff leaving the site so that there is no increase in runoff in the two-year storm event. .</p>
Stormwater Quality	<p>Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality storm by an equivalent of 80% of the anticipated load from the newly proposed vehicular surfaces for the developed site, expressed as an annual average.</p>

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## **5.0 STORMWATER ANALYSIS**

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### **EXISTING DRAINAGE AREAS**

Under existing conditions, the project site is comprised of two drainage areas each of which discharge ultimately to a Point of Interest (POI) along the northerly lot line drainage area EX-1 consists of approximately half of the existing athletic facility at the northerly end of the property, a portion of the parking lot, and grass / wooded areas along the northern and western property line. This drainage area ultimately drains towards the unnamed tributary in the northwest corner of the site. Area EX-2 consists of the shopping center on the southerly end of the project site, the cell tower, the other half of the athletic building, the majority of parking areas on site, and grass / wooded areas near the northeast corner of the site as well as around main the parking lot. Runoff from drainage area EX-2 is collected via the primary on-site conveyance system and ultimately outfalls to the ditch in the northeast corner of the site.

**TABLE 5: EXISTING DRAINAGE AREAS**

<b>Drainage Area</b>	<b>Description</b>	<b>Area Extents (SF)</b>	<b>Impervious Area (SF)</b>	<b>Time of Concentration (Min)</b>
POI-1	Existing Area to Stream along Southern Property Line	107,957	61,061	--
EX-1 (I)	Existing Impervious Area to POI-1	61,061	61,061	3.6
EX-1 (P)	Existing Pervious Area to POI-1	46,896	0	18.0
POI-2	Existing Area to Stream along Northwest Property Line	469,908	393,890	--
EX-2 (I)	Existing Impervious Area to POI-2	393,890	393,890	6.8
EX-2 (P)	Existing Pervious Area to POI-2	76,018	0	10.0

All existing drainage areas were delineated based on field surveying data. Hydrologic calculations and parameters for each drainage area can be found in **APPENDIX C**. Specific drainage area delineations and land cover can be found in **APPENDIX D**.

**PROPOSED DRAINAGE AREAS**

Under proposed conditions, the site is comprised of thirteen (13) drainage areas ultimately discharging to the same two POIs as under existing conditions. Drainage area P-1 consists of a portion of the proposed building, the proposed pool area, wooded area, and grass area that bypass the proposed pervious pavement systems and outfall to the existing stream in the northeast corner of the site. Drainage Areas P-1B-1 through P-1B-6 and P-1C-7 through P-1C-11 consist of all the proposed pervious pavement, impervious area, and grass areas that drain into the pervious pavement systems. Drainage areas P-1A, P-1B, and P-1C ultimately discharges to the existing stream to the southwest of the proposed multi-family residential building onsite. Drainage area P-2 consists of the majority of the proposed building, the premium parking building, the three existing buildings to the south, parking areas, and various landscaping throughout the parking lot. Drainage Area P-2 ultimately outfalls to the existing stream in the northwest corner of the site.

**TABLE 6: PROPOSED DRAINAGE AREAS**

<b>Drainage Area</b>	<b>Description</b>	<b>Area Extents (SF)</b>	<b>Impervious Area (SF)</b>	<b>Time of Concentration (Min)</b>
POI-1	Proposed Area to Stream Along Southern Property Line	156,048	77,768	--
P-1A(I)	Proposed Impervious Area to POI-1	12,565	12,565	1.8
P-1A(P)	Proposed Pervious Area to POI-1	65,562	0	18.5
P-1B-1	Proposed Area to Pervious Pavers (PV-1)	9,440	7,976	1.8
P-1B-2	Proposed Area to Pervious Pavers (PV-2)	4,844	4,112	2.5
P-1B-3	Proposed Area to Pervious Pavers (PV-3)	6,592	5,327	3.2
P-1B-4	Proposed Area to Pervious Pavers (PV-4)	5,530	4,660	3.8
P-1B-5	Proposed Area to Pervious Pavers (PV-5)	6,285	4,610	3.1
P-1B-6	Proposed Area to Pervious Pavers (PV-6)	5,929	5,066	7.5
P-1C-7	Proposed Area to Pervious Pavers (PV-7)	6,963	6,254	3.7
P-1C-8	Proposed Area to Pervious Pavers (PV-8)	6,540	5,405	2.0
P-1C-9	Proposed Area to Pervious Pavers (PV-9)	8,185	7,059	2.0
P-1C-10	Proposed Area to Pervious Pavers (PV-10)	11,071	8,192	5.3
P-1C-11	Proposed Area to Pervious Pavers (PV-11)	6,542	6,542	1.1
POI-2	Proposed Area to Stream Along Northwest Property Line	421,817	344,160	--
P-2(I)	Proposed Impervious Area to POI-2	344,160	344,160	5.7
P-2(P)	Proposed Pervious Area to POI-2	77,657	0	9.9

All proposed drainage areas were delineated based on the proposed grading design overlain on field survey data. Hydrologic calculations and parameters for each drainage area can be found in **APPENDIX C**. Specific drainage area delineations and land cover can be found in **APPENDIX D**.

**STORMWATER QUANTITY CONTROL**

Runoff in post-construction conditions will be naturally reduced due to the increase in pervious surfaces. To further attenuate peak stormwater runoff rates to the mandated regulatory levels eleven (11) sets of pervious pavement systems with associated outlet structures are proposed. To analyze runoff quantities between the existing and proposed drainage areas, two (2) points of interest were selected.

**TABLE 7: QUANTITY COMPARISON POINTS OF INTEREST**

Drainage Area	Area Description	Existing Tributary Drainage Areas	Proposed Tributary Drainage Areas
POI-1	Drainage to Stream Along Southern Property Line	EX-1	P-1, P-1B-1 through P-1B-6, and P-1C-7 through P-1C-11
POI-2	Drainage to Stream Along Northwest Property Line	EX-2	P-2

**TABLE 8: PEAK DISCHARGE TO STREAM ALONG SOUTHERN PROPERTY LINE (POI-1)**

Rainfall Event	Existing Flow Rate	Required % Reduction	Proposed Flow Rate	Proposed % Reduction
2-Year Storm	5.77 CFS	50%	2.64 CFS	54.25%
10-Year Storm	8.99 CFS	25%	5.80 CFS	35.48%
100-Year Storm	14.98 CFS	20%	11.80 CFS	21.23%

**TABLE 9: PEAK DISCHARGE TO STREAM ALONG NORTHWEST PROPERTY LINE (POI-2)**

Rainfall Event	Existing Flow Rate	Required % Reduction	Proposed Flow Rate	Proposed % Reduction
2-Year Storm	31.77 CFS	--	28.99 CFS	8.75%*
10-Year Storm	48.46 CFS	--	44.31 CFS	8.56%*
100-Year Storm	79.23 CFS	--	72.59 CFS	8.38%*

\*Post-Construction runoff hydrograph does not exceed, at any point in time, the pre-construction runoff hydrograph for the same storm. See **APPENDIX C**.

As shown in the tables above, peak stormwater discharge rates are reduced by at least the required amount for each storm event. Project hydrographs and more detailed data can be found in **APPENDIX C** of this report.

Runoff for each storm event is managed via eleven (11) pervious paver systems that provide quantity control as well as water quality control as outlined in the following section. The system was designed to meet the standards outlined in the NJDEP BMP Manual and NJAC 7:8 as outlined in the following tables.

**TABLE 10: PERVIOUS PAVEMENT SYSTEM REQUIREMENTS TABLE (PV-1 THROUGH PV-6)**

Standard	Required	Proposed (PV-1)	Proposed (PV-2)	Proposed (PV-3)	Proposed (PV-4)	Proposed (PV-5)	Proposed (PV-6)
Maximum Contributing Drainage Area Ratio	Ratio of 3:1 of additional area to surface area of the system	2.07:1	1.19:1	1.75:1	1.50:1	1.62:1	2.99:1
Surface Course Standard	Designed to support anticipated traffic and other design loads	8" surface course	8" surface course	8" surface course	8" surface course	8" surface course	8" surface course
Minimum Tested Infiltration Rate of Surface Course	Min. 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr
Sealant, Prime Coat, Other Treatments	Treatments that could reduce rate of infiltration may not be applied to the surface course	Complies	Complies	Complies	Complies	Complies	Complies
Maximum Surface Course Slope	5%	2.25%	2.15%	2.50%	2.25%	1.75%	3.15%
Minimum Storage Volume	Volume of the WQDS	Required: 515 cf Provided: 515 cf	Required: 230 cf Provided: 230 cf	Required: 327 cf Provided: 327 cf	Required: 281 cf Provided: 281 cf	Required: 274 cf Provided: 247 cf	Required: 357 cf Provided: 357 cf
Runoff Quantity Standard	Additional storage required above the WQDS	Complies	Complies	Complies	Complies	Complies	Complies
Drain Time	72 Hours	54.20 Hours (100-Yr Event)	37.40 Hours (100-Yr Event)	54.80 Hours (100-Yr Event)	51.65 Hours (100-Yr Event)	54.44 Hours (100-Yr Event)	40.20 Hours (100-Yr Event)
Minimum Separation from Seasonal High-Water Table	1 foot (underdrain)	9.10 feet	9.47 feet	9.26 feet	9.30 feet	9.45 feet	5.21 feet

**TABLE 11: PERVIOUS PAVEMENT SYSTEM REQUIREMENTS TABLE (PV-7 THROUGH PV-11)**

Standard	Required	Proposed (PV-7)	Proposed (PV-8)	Proposed (PV-9)	Proposed (PV-10)	Proposed (PV-11)
Maximum Contributing Drainage Area Ratio	Ratio of 3:1 of additional area to surface area of the system	1.87:1	0.84:1	1.30:1	2.11:1	1.52:1
Surface Course Standard	Designed to support anticipated traffic and other design loads	8" surface course	8" surface course	8" surface course	8" surface course	8" surface course
Minimum Tested Infiltration Rate of Surface Course	Min. 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr	> 20 in/hr
Sealant, Prime Coat, Other Treatments	Treatments that could reduce rate of infiltration may not be applied to the surface course	Complies	Complies	Complies	Complies	Complies
Maximum Surface Course Slope	5%	1.25%	1.25%	1.25%	1.25%	1.25%
Minimum Storage Volume	Volume of the WQDS	Required: 401 cf Provided: 401 cf	Required: 265 cf Provided: 265 cf	Required: 408 cf Provided: 408 cf	Required: 516 cf Provided: 516 cf	Required: 406 cf Provided: 406 cf
Runoff Quantity Standard	Additional storage required above the WQDS	Complies	Complies	Complies	Complies	Complies
Drain Time	72 Hours	55.60 Hours (100-Yr Event)	70.90 Hours (100-Yr Event)	49.30 Hours (100-Yr Event)	59.50 Hours (100-Yr Event)	57.60 Hours (100-Yr Event)
Minimum Separation from Seasonal High-Water Table	1 foot (underdrain)	4.90 feet	1.86 feet	1.35 feet	1.15 feet	1.75 feet

**TABLE 12: PERVIOUS PAVEMENT SYSTEM SCHEDULE (PV-1 THROUGH PV-11)**

PERVIOUS PAVER SYSTEM	GRADE LOW	TOP OF STONE STORAGE	100-YR STORM ELEVATION	WQ STORM ELEVATION	4" UNDERDRAIN INVERT	BOTTOM OF STONE	CULVERT INVERT OUT	ESHWT (ELEV.)
PV-1	544.50	543.83	543.78	542.30	541.55	541.30	541.55	532.20
PV-2	544.40	543.73	543.57	542.51	541.92	541.67	541.62	532.20
PV-3	544.50	543.83	543.79	542.38	541.71	541.46	541.71	532.20
PV-4	544.50	543.83	543.64	542.40	541.75	541.50	540.82	532.20
PV-5	544.50	543.83	543.81	542.51	541.90	541.65	541.65	532.20
PV-6	544.15	543.48	543.41	541.79	540.86	540.61	540.86	535.40
PV-7	544.85	544.18	544.05	542.49	541.75	541.50	540.98	536.60
PV-8	545.25	544.58	544.56	543.53	543.01	542.76	541.28	540.90
PV-9	545.25	544.58	544.48	543.12	542.50	542.25	541.62	540.90
PV-10	545.25	544.58	544.51	542.69	542.00	541.75	541.62	540.90
PV-11	545.80	545.13	545.03	543.62	542.90	542.65	541.50	540.90

(\*) PERVIOUS PAVERS TO BE LINED WITH IMPERMEABLE LINER

### STORMWATER QUALITY CONTROL

The project proposes more than one-quarter acre of new motor vehicle surfaces (0.80 acres proposed) so it is subject to meeting the water quality standards as outlined in NJAC 7:8-5.5 and summarized in Table 4 above. It should be noted that because the proposed development discharges runoff from the water quality storm event outside of the 300-foot riparian zone the runoff is treated to 80% TSS removal.

The site proposes 5.18 acres of motor vehicle surface consisting of 0.80 acres of new motor vehicle surface and 4.38 acres of existing vehicular surfaces. Eleven (11) pervious pavement systems have been proposed throughout the western portion of the site to provide the 80% TSS removal required. The proposed systems are providing treatment to 1.39 acres of existing and new motor vehicle surfaces to meet the required treatment requirement of 0.80 acres. Water quality drainage area maps can be found in **APPENDIX D**.

### GROUNDWATER RECHARGE

As indicated in the Township Ordinances and NJAC 7:8-5.4, the project site shall demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from pre-construction to post-construction for the two-storm is infiltrated. As previously indicated, the proposed development will increase the amount of pervious landcover on site. This will subsequently reduce volumes in post-construction conditions, thereby increasing the total amount of runoff recharged on site. Detailed diagrams and tables can be found in **APPENDIX C**. The table below outlines the reduction in volume for each regulated storm event.

**TABLE 13: STORMWATER RUNOFF VOLUME REDUCTION SUMMARY**

<b>Rainfall Event</b>	<b>Existing Runoff Volume (CF)</b>	<b>Proposed Runoff Volume (CF)</b>	<b>Proposed Reduction (%)</b>
2-Year Storm	140,156	132,268	5.63%

**STORMWATER PIPE CONVEYANCE SYSTEM**

The on-site stormwater conveyance system has been sized for the 25-year storm event and is able to safely convey runoff to proposed stormwater management facilities without overflow or bypass.

**6.0 STORMWATER FACILITY OPERATIONS & MAINTENANCE**

A Stormwater Operations & Maintenance Manual will be submitted for approval to the Borough of Mendham, NJDEP and Morris County Soil Conservation District prior to the start construction. Any required easements or covenants associated with the stormwater improvements will be recorded prior to the start of construction.

**7.0 EROSION & SEDIMENT CONTROL**

A Soil Erosion & Sediment Control Plan has been prepared in accordance with the latest edition of the Standards for Soil Erosion and Sediment Control in New Jersey. Proposed temporary measures during construction include silt fencing, hay bales, stabilized construction entrances, inlet filters, and temporary groundcover for soil stabilization. No land disturbance will occur until a permit has been obtained from the Morris County Soil Conservation District.

**8.0 CONCLUSIONS**

As demonstrated in this Report, the increase in runoff flow rate generated by the proposed redevelopment will be satisfactorily mitigated by the introduction of several pervious pavement systems within the redeveloped parking lot areas and an expansion of the on-site stormwater conveyance system. Runoff water quality will be impacted by the increase in motor vehicle surfaces and the filtering mechanisms of the porous pavement systems will provide treatment to remove total suspended solids to a satisfactory regulatory level. Additionally, the project will reduce the historic development footprint of the project site and decrease impervious coverage overall leading to additional benefits for the adjacent wetlands and watercourses.

The proposed project complies with all applicable stormwater management regulations and standards. As such, the project is not anticipated to have any adverse drainage impacts on neighboring properties, downstream watercourses, or adjoining conveyance systems.



## **9.0 REFERENCES**

---

1. New Jersey Administrative Code Title 7, Chapter 8 Stormwater Management, last amended March 2, 2020  
[https://www.nj.gov/dep/rules/rules/njac7\\_8.pdf](https://www.nj.gov/dep/rules/rules/njac7_8.pdf)
2. New Jersey Stormwater Best Management Practices Manual, last revised March 2021  
[https://www.njstormwater.org/bmp\\_manual2.htm](https://www.njstormwater.org/bmp_manual2.htm)
3. Borough of Mendham Land Use Ordinance, last amended June 10, 2020  
<https://ecode360.com/ME0530>

# **APPENDIX A PROJECT FIGURES**

## **INVENTORY**

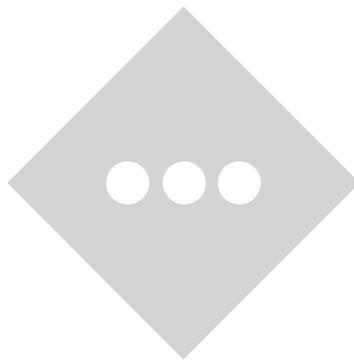
**FIGURE 1: AERIAL MAP**

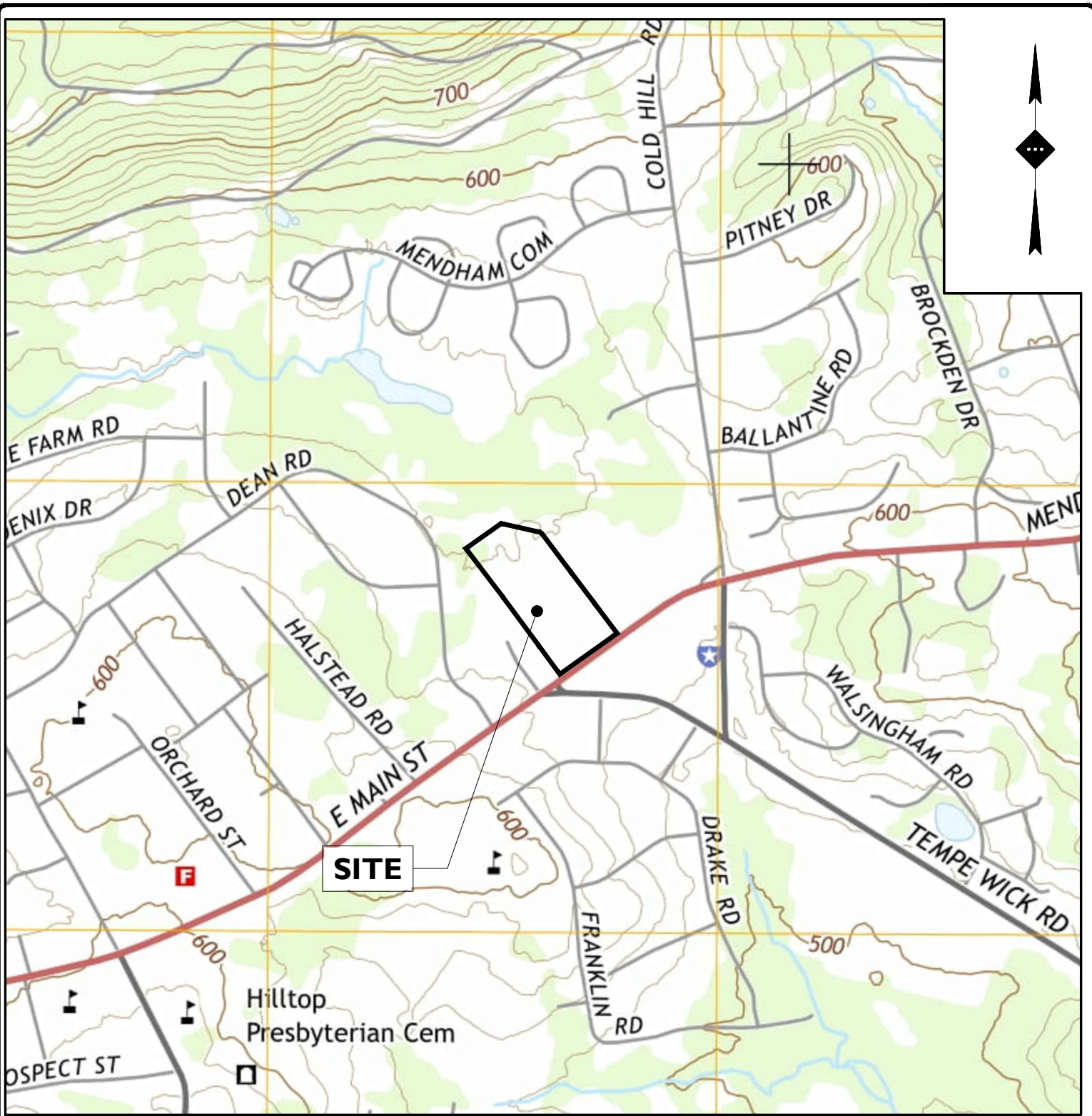
**FIGURE 2: TAX & ZONING MAP**

**FIGURE 3: USGS LOCATION MAP**

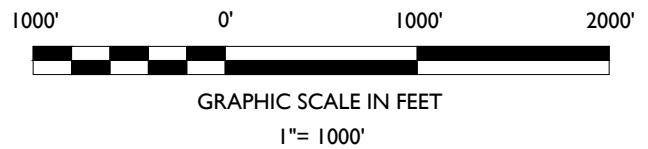
**FIGURE 4: FEMA MAP**

**FIGURE 5: SITE PLAN (NOT TO SCALE)**





# USGS KEY MAP



SOURCE: MENDHAM QUADRANGLE NJ 7.5 MINUTE SERIES USGS MAP. DATED 2019

**V-FEE MENDHAM APARTMENTS, LLC**  
**PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT**

BLOCK 801, LOT 20  
 84-90 EAST MAIN STREET  
 BOROUGH OF MENDHAM, MORRIS COUNTY, NEW JERSEY

<b>DRAWN BY:</b>	GT
<b>CHECKED BY:</b>	PK
<b>DATE:</b>	07/28/2022
<b>SCALE:</b>	1"=1000'
<b>PROJECT ID:</b>	RUT-200218

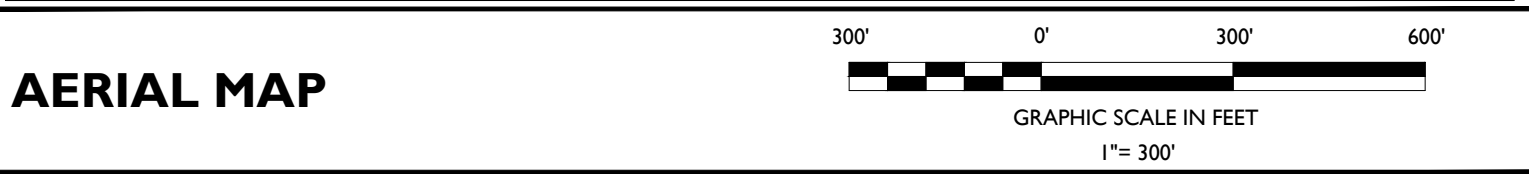
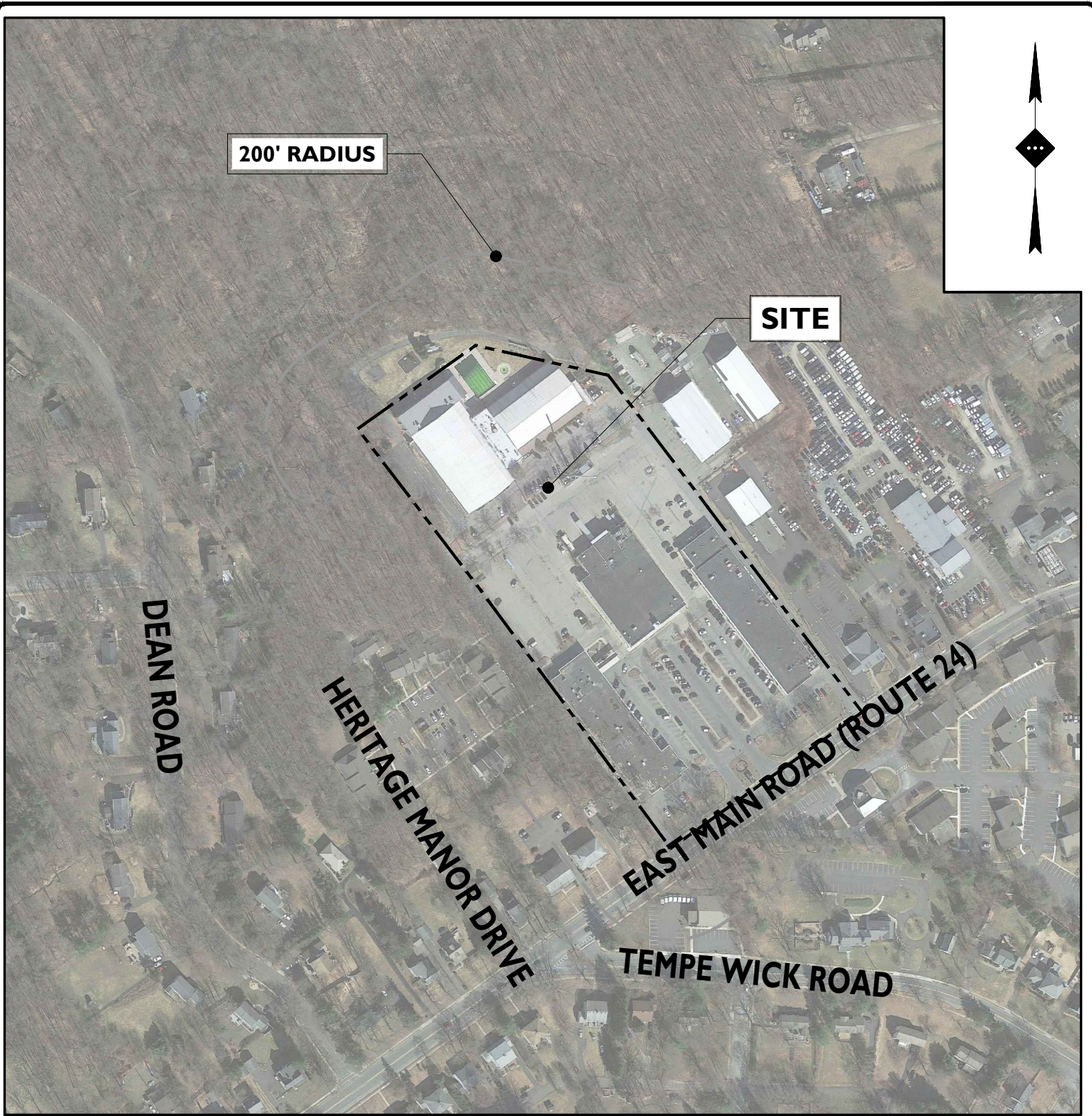
**STONEFIELD**  
 engineering & design

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Headquarters: 92 Park Avenue, Rutherford, NJ 07070  
 Phone 201.340.4468 · Fax 201.340.4472

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Z:\Rutherford\RTJ\2020\08\RTJ-200218 ROI Development - 84-90 East Main Street, Mendham, NJ\CAD\Exhibits\2020-10-14\_Project Maps.dwg



SOURCE: GOOGLE EARTH PRO DATED 02/22/2020

**V-FEE MENDHAM APARTMENTS, LLC**  
**PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT**

BLOCK 801, LOT 20  
 84-90 EAST MAIN STREET  
 BOROUGH OF MENDHAM, MORRIS COUNTY, NEW JERSEY

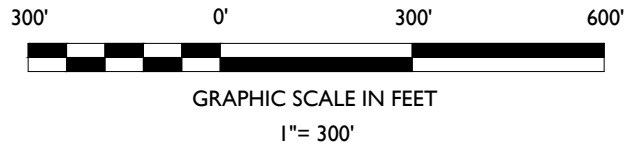
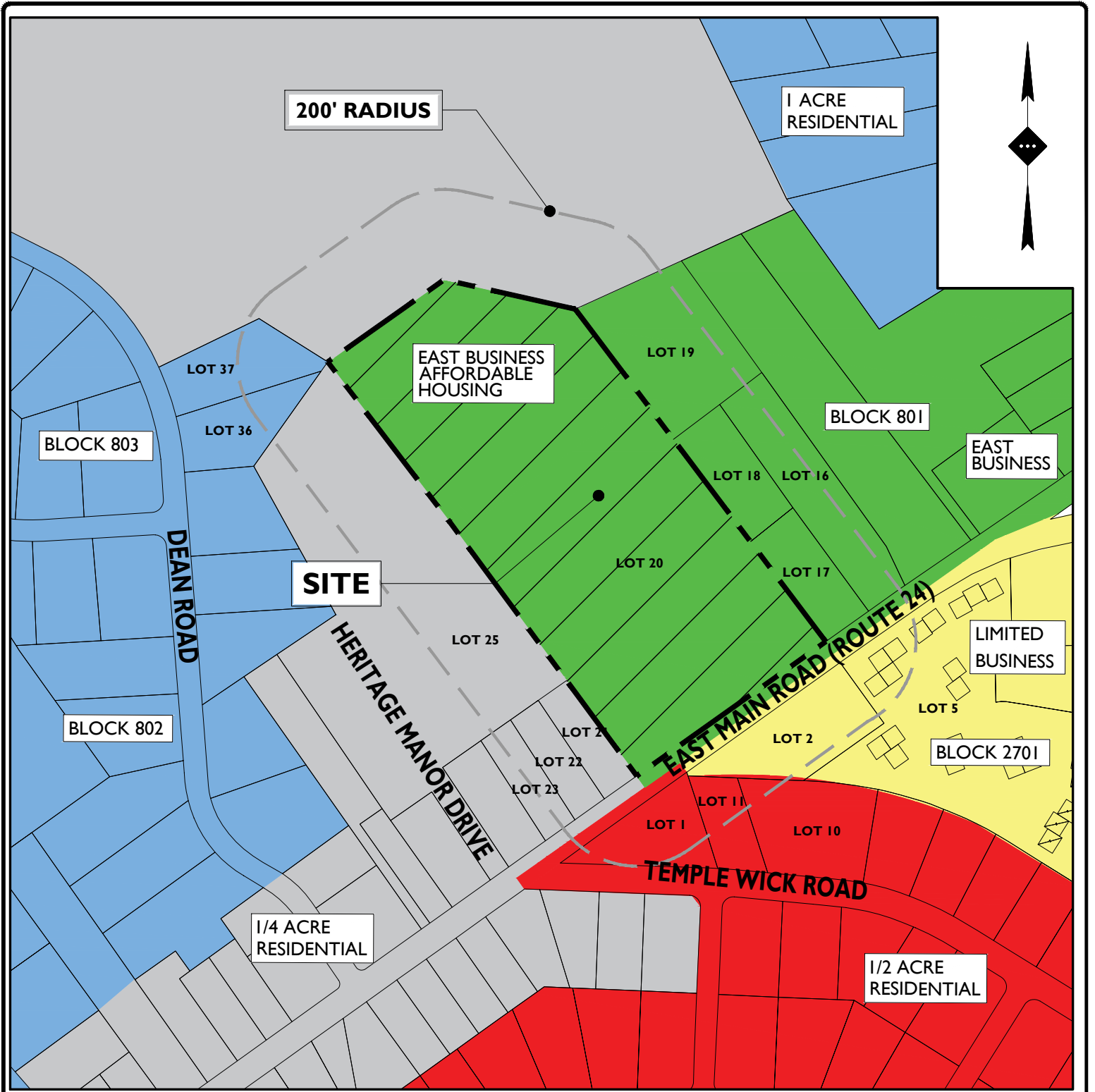
<b>DRAWN BY:</b>	GT
<b>CHECKED BY:</b>	PK
<b>DATE:</b>	07/28/2022
<b>SCALE:</b>	1"=300'
<b>PROJECT ID:</b>	RUT-200218



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 Phone 201.340.4468 · Fax 201.340.4472



# TAX & ZONING MAP

SOURCE: TAX MAP: BOROUGH OF MENDHAM'S TAX MAP, SHEET 8. DATED JULY 2010. ZONING MAP: THE BOROUGH OF MENDHAM'S ZONING MAP. DATED: 01/18/2012

## V-FEE MENDHAM APARTMENTS, LLC PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT

BLOCK 801, LOT 20  
84-90 EAST MAIN STREET  
BOROUGH OF MENDHAM, MORRIS COUNTY, NEW JERSEY

<b>DRAWN BY:</b>	GT
<b>CHECKED BY:</b>	PK
<b>DATE:</b>	07/28/2022
<b>SCALE:</b>	1"=300'
<b>PROJECT ID:</b>	RUT-200218

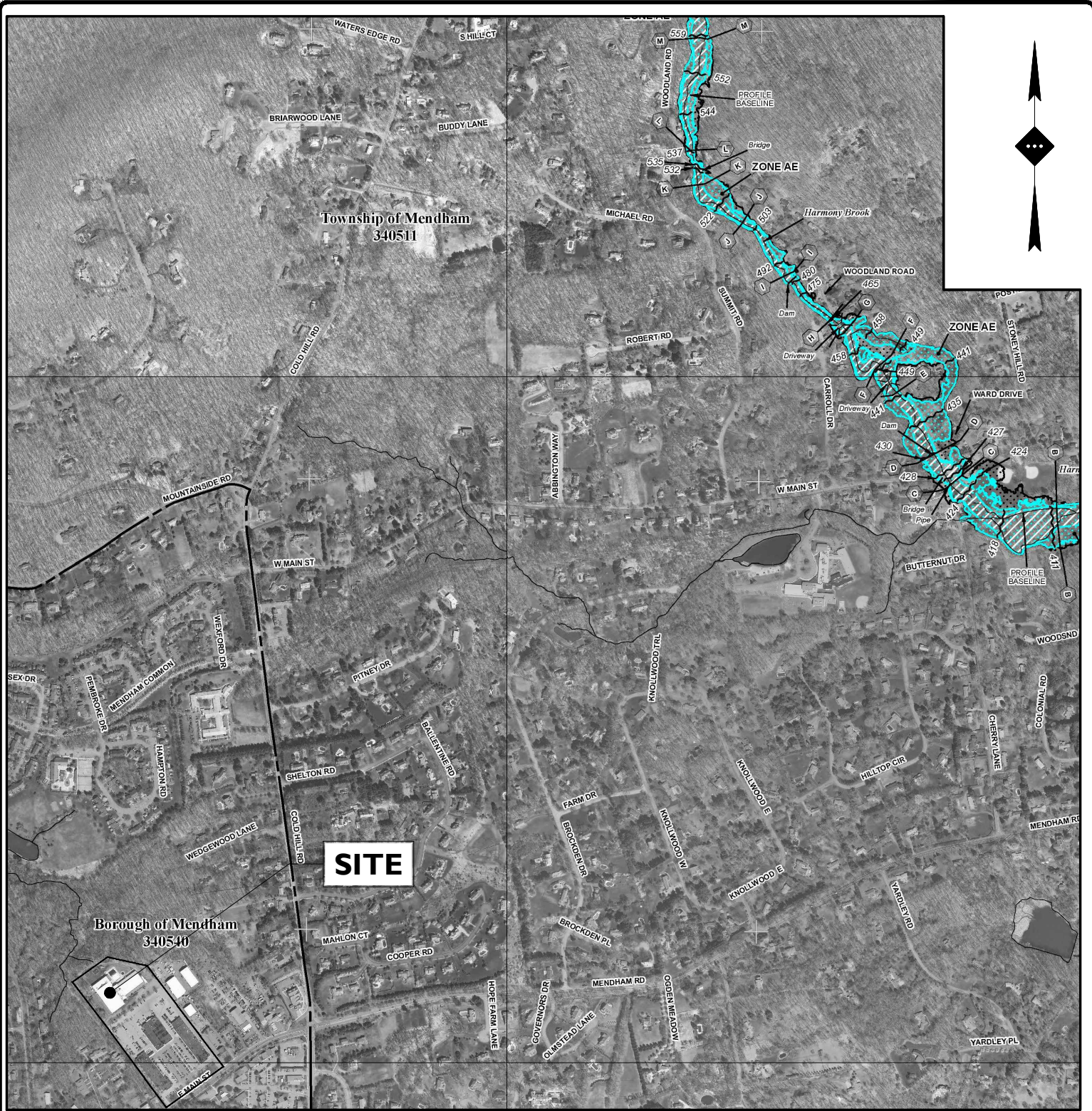


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# EFFECTIVE FEMA FLOOD INSURANCE RATE MAP



GRAPHIC SCALE IN FEET

1" = 1000'

SOURCE: PRELIMINARY FLOOD INSURANCE RATE MAP, MORRIS COUNTY, NEW JERSEY, MAP NUMBER 34027C0287F DATED FEBRUARY 6, 2016

## V-FEE MENDHAM APARTMENTS, LLC PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT

BLOCK 801, LOT 20  
84-90 EAST MAIN STREET  
BOROUGH OF MENDHAM, MORRIS COUNTY, NEW JERSEY

<b>DRAWN BY:</b>	GT
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<b>DATE:</b>	07/28/2022
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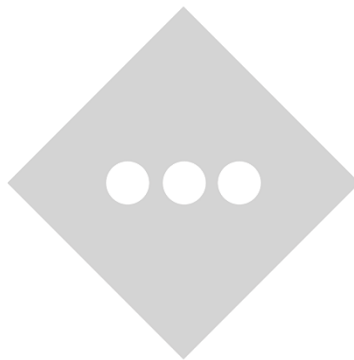


# **APPENDIX B PROJECT SOILS**

## **INVENTORY**

**B-1: NRCS SOILS REPORT**

**B-2: GEOTECHNICAL REPORT**







United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

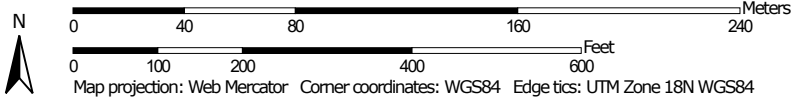
# Custom Soil Resource Report for **Morris County, New Jersey**



# Custom Soil Resource Report Soil Map




Map Scale: 1:2,720 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)


**Soils**


 Soil Map Unit Polygons


 Soil Map Unit Lines

 Soil Map Unit Points

**Special Point Features**

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot


 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

**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: Morris County, New Jersey  
 Survey Area Data: Version 17, Aug 30, 2022

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

Date(s) aerial images were photographed: Mar 13, 2021—Sep 14, 2021

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.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CapfB	Califon variant loam, 3 to 8 percent slopes	6.8	53.3%
CoaBc	Cokesbury loam, 0 to 8 percent slopes, extremely stony	5.9	46.4%
GkaoB	Gladstone gravelly loam, 3 to 8 percent slopes	0.0	0.3%
<b>Totals for Area of Interest</b>		<b>12.8</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

## Custom Soil Resource Report

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Morris County, New Jersey

### CapfB—Califon variant loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* b0lq  
*Elevation:* 250 to 1,200 feet  
*Mean annual precipitation:* 30 to 64 inches  
*Mean annual air temperature:* 46 to 79 degrees F  
*Frost-free period:* 131 to 178 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Califon, friable subsoil, and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Califon, Friable Subsoil

##### Setting

*Landform:* Hillslopes, drainageways  
*Landform position (two-dimensional):* Footslope, toeslope  
*Landform position (three-dimensional):* Side slope, base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Till derived from gneiss and/or colluvium derived from gneiss

##### Typical profile

*A - 0 to 3 inches:* loam  
*BA - 3 to 12 inches:* gravelly loam  
*Bt1 - 12 to 20 inches:* gravelly sandy clay loam  
*Bt2 - 20 to 32 inches:* sandy clay loam  
*BC - 32 to 40 inches:* sandy loam  
*C - 40 to 60 inches:* sandy loam

##### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* About 6 to 30 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* High (about 9.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2e  
*Hydrologic Soil Group:* C  
*Ecological site:* F148XY024PA - Moist, Piedmont - felsic, Upland, Mixed Oak -  
Hardwood - Conifer Forest  
*Hydric soil rating:* No

## Minor Components

### Cokesbury

*Percent of map unit:* 5 percent  
*Landform:* Drainageways  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

### Parker

*Percent of map unit:* 5 percent  
*Landform:* Knobs  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Nose slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Hydric soil rating:* No

### Gladstone

*Percent of map unit:* 5 percent  
*Landform:* Hills  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Hydric soil rating:* No

## CoaBc—Cokesbury loam, 0 to 8 percent slopes, extremely stony

### Map Unit Setting

*National map unit symbol:* b0ls  
*Elevation:* 250 to 1,200 feet  
*Mean annual precipitation:* 30 to 64 inches  
*Mean annual air temperature:* 46 to 79 degrees F  
*Frost-free period:* 131 to 178 days  
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Cokesbury, extremely stony, and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Cokesbury, Extremely Stony

#### Setting

*Landform:* Drainageways  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Base slope

## Custom Soil Resource Report

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Till derived from gneiss and/or colluvium derived from gneiss

### Typical profile

*Ap - 0 to 9 inches:* loam

*BA - 9 to 15 inches:* loam

*Bt - 15 to 25 inches:* gravelly clay loam

*Bx - 25 to 35 inches:* loam

*C - 35 to 60 inches:* gravelly loam

### Properties and qualities

*Slope:* 0 to 8 percent

*Surface area covered with cobbles, stones or boulders:* 9.0 percent

*Depth to restrictive feature:* 20 to 30 inches to fragipan

*Drainage class:* Poorly drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* About 0 to 12 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Low (about 3.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* F148XY030PA - Hydric, Piedmont - felsic, Riparian Zone, Swamp Meadow-Shrub-Forest

*Hydric soil rating:* Yes

### Minor Components

#### Annandale

*Percent of map unit:* 5 percent

*Landform:* Ridges

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Hydric soil rating:* No

#### Gladstone

*Percent of map unit:* 5 percent

*Landform:* Hills

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Hydric soil rating:* No

#### Califon

*Percent of map unit:* 5 percent

*Landform:* Flats

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Base slope



## Custom Soil Resource Report

*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Hydric soil rating:* No

### **GkaoB—Gladstone gravelly loam, 3 to 8 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* 2v7gk  
*Elevation:* 250 to 1,200 feet  
*Mean annual precipitation:* 30 to 64 inches  
*Mean annual air temperature:* 46 to 79 degrees F  
*Frost-free period:* 131 to 178 days  
*Farmland classification:* All areas are prime farmland

#### **Map Unit Composition**

*Gladstone and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Gladstone**

##### **Setting**

*Landform:* Hills  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Parent material:* Loamy colluvium derived from granite and gneiss and/or loamy residuum weathered from granite and gneiss

##### **Typical profile**

*Ap - 0 to 10 inches:* gravelly loam  
*Bt1 - 10 to 22 inches:* sandy clay loam  
*Bt2 - 22 to 37 inches:* loam  
*C - 37 to 66 inches:* sandy loam  
*R - 66 to 76 inches:* bedrock

##### **Properties and qualities**

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* 60 to 80 inches to lithic bedrock  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 2e

## Custom Soil Resource Report

*Hydrologic Soil Group:* B

*Ecological site:* F148XY024PA - Moist, Piedmont - felsic, Upland, Mixed Oak -  
Hardwood - Conifer Forest

*Hydric soil rating:* No

### Minor Components

#### **Annandale**

*Percent of map unit:* 5 percent

*Landform:* Hills

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Hydric soil rating:* No

#### **Parker**

*Percent of map unit:* 5 percent

*Landform:* Hills

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Hydric soil rating:* No

#### **Califon**

*Percent of map unit:* 5 percent

*Landform:* Flats

*Landform position (two-dimensional):* Footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Concave

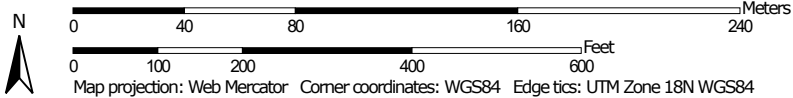
*Across-slope shape:* Linear

*Hydric soil rating:* No

# Custom Soil Resource Report Map—Hydrologic Soil Group




Map Scale: 1:2,720 if printed on A landscape (11" x 8.5") sheet.











Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

### MAP LEGEND









**Area of Interest (AOI)**  
 Area of Interest (AOI)

**Soils**





**Soil Rating Polygons**

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available





**Soil Rating Lines**

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available


**Soil Rating Points**

-  A
-  A/D
-  B
-  B/D






**Soils**

-  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: Morris County, New Jersey  
 Survey Area Data: Version 17, Aug 30, 2022

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

Date(s) aerial images were photographed: Mar 13, 2021—Sep 14, 2021

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.

**Table—Hydrologic Soil Group**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CapfB	Califon variant loam, 3 to 8 percent slopes	C	6.8	53.3%
CoaBc	Cokesbury loam, 0 to 8 percent slopes, extremely stony	D	5.9	46.4%
GkaoB	Gladstone gravelly loam, 3 to 8 percent slopes	B	0.0	0.3%
<b>Totals for Area of Interest</b>			<b>12.8</b>	<b>100.0%</b>

**Rating Options—Hydrologic Soil Group**

*Aggregation Method: Dominant Condition*

*Component Percent Cutoff: None Specified*

*Tie-break Rule: Higher*

March 21, 2023

*via email*

**V-FEE REALITY INVESTMENT, LLC**  
130 NJ Route 10 West  
Whippany, New Jersey 07981

Attention: Mr. Michael Ghabrial  
Executive Vice President

**Regarding: SWM AREA EVALUATION  
PROPOSED RESIDENTIAL REDEVELOPMENT  
84 - 90 EAST MAIN STREET  
BLOCK 801, LOT 20  
MENDHAM, MORRIS COUNTY, NEW JERSEY  
WHITESTONE PROJECT NO.: GJ2118244.001**

Dear Mr. Ghabrial:

Whitestone Associates, Inc. (Whitestone) is pleased to submit this *Supplemental Stormwater Management (SWM) Area Evaluation* report in support of the proposed site redevelopment referenced above. This report is based on the October 2, 2022 (last revised January 25, 2023) *Site Plan* prepared by Stonefield Engineering & Design, LLC (Stonefield), correspondence with Stonefield, and Whitestone's previous experience at the subject site.

## **1.0 PROJECT DESCRIPTION**

The subject site located at 84 through 90 East Main Street (Block 801, Lot 20) in Mendham, Morris County, New Jersey currently houses the existing Mendham Village Shopping Center with pavements, landscaped areas, and utilities.

Based on project information provided by Stonefield, the proposed redevelopment includes partial demolition of the existing structures and construction of a multi-story residential development with associated pavements, landscaped areas, and utilities. A new SWM system is proposed as part of the redevelopment. Whitestone assumes the bottom of the SWM area will be approximately four feet to six feet below existing grades.

## **2.0 FIELD INVESTIGATION**

The investigation and infiltration testing were conducted in general accordance with standards presented in the *New Jersey Stormwater Best Management Practices Manual* (BMP Manual). Specifically, the field investigation included excavating 22 profile pits (identified as SPP-1 through SPP-22) within proposed SWM locations provided by Stonefield.

### *Other Office Locations:*

CHALFONT, PA  
215.712.2700

SOUTHBOROUGH, MA  
508.485.0755

ROCKY HILL, CT  
860.726.7889

WALL, NJ  
732.592.2101

PHILADELPHIA, PA  
215.848.2323

BEDFORD, NH  
603.514.2230

TAMPA, FL  
813.851.0690

MIAMI, FL  
786.783.6966

The subsurface tests were conducted in the presence of a Whitestone engineer who conducted field tests, recorded visual classifications, and collected samples of the various strata encountered. The tests were located in the field using normal taping procedures and estimated right angles. These locations are presumed to be accurate within a few feet.

The subsurface tests were terminated at a depth of approximately 12 feet below ground surface (fbgs). The test locations are shown on the *Boring Location Plan* included as Figure 1. Detailed descriptions of the subsurface conditions encountered are presented on the enclosed *Records of Subsurface Exploration* included in Appendix A.

### 3.0 SUMMARY OF FINDINGS

**Estimated Seasonal High Groundwater Levels & Infiltration Test Results:** The methods used in determining the seasonal high groundwater level include evaluating the soil morphology within a test excavation and identifying irregular spots or blotches of different colors or minerals unlike that of the surrounding soil (mottles). A summary of the estimated seasonal high groundwater observations as well as infiltration test results associated with the supplemental SWM investigation are included in the following table.

ESHGW & INFILTRATION TEST SUMMARY				
Test Location	ESHGW (fbgs)	USDA Classification @ Test Depth	Infiltration Test Results	
			Depth (fbgs)	Field Tested Infiltration Rate (in/hour)
SPP-1	2.2	Silty Clay	0.5	< 0.2
SPP-2	8.7	Silty Clay	5.0	< 0.2
SPP-3	8.2	Silty Clay	5.0	< 0.2
SPP-4	6.0	Silty Clay	4.0	< 0.2
SPP-5	6.6	Silty Clay	4.0	< 0.2
SPP-6	1.3	Silty Clay	0.5	< 0.2
SPP-7	6.2	Silty Clay	4.0	< 0.2
SPP-8	7.3	Silty Clay	5.0	< 0.2
SPP-9	8.0	Silty Clay	4.0	< 0.2
SPP-10	10.0	Silty Clay	6.0	< 0.2
SPP-11	2.8	Silty Clay	0.5	< 0.2
SPP-12	6.0	Silty Clay	4.0	< 0.2
SPP-13	5.5	Silty Clay	3.0	< 0.2
SPP-14	7.5	Silty Clay	4.0	< 0.2
SPP-15	7.5	Silty Clay	4.0	< 0.2
SPP-16	8.1	Silty Clay	6.0	< 0.2

ESHGW & INFILTRATION TEST SUMMARY				
Test Location	ESHGW (fbgs)	USDA Classification @ Test Depth	Infiltration Test Results	
			Depth (fbgs)	Field Tested Infiltration Rate (in/hour)
SPP-17	9.0	Silty Clay	6.0	< 0.2
SPP-18	6.7	Silty Clay	4.0	< 0.2
SPP-19	7.0	Silty Clay	5.0	< 0.2
SPP-20	5.0	Silty Clay	3.0	< 0.2
SPP-21	5.4	Silty Clay	3.0	< 0.2
SPP-22	6.2	Silty Clay	4.0	< 0.2

NE: Not Encountered

**Infiltration Rates:** In-situ infiltration tests were conducted within the proposed SWM areas at the supplementary soil boring locations. Infiltration testing was conducted as detailed in the *New Jersey Stormwater Best Practices Manual*. Field tests resulted in infiltration rates of less than 0.2 inches per hour (iph). In-situ infiltration test results are provided in Appendix B and the *Records of Subsurface Exploration* are included in Appendix A.

#### 4.0 CLOSING

Whitestone appreciates the opportunity to be of continued service to V-Fee Realty Investment, LLC. Please contact us with any questions or comments regarding the information herein.

Sincerely,

**WHITESTONE ASSOCIATES, INC.**



Kyle J. Kopacz, P.E.  
 Associate



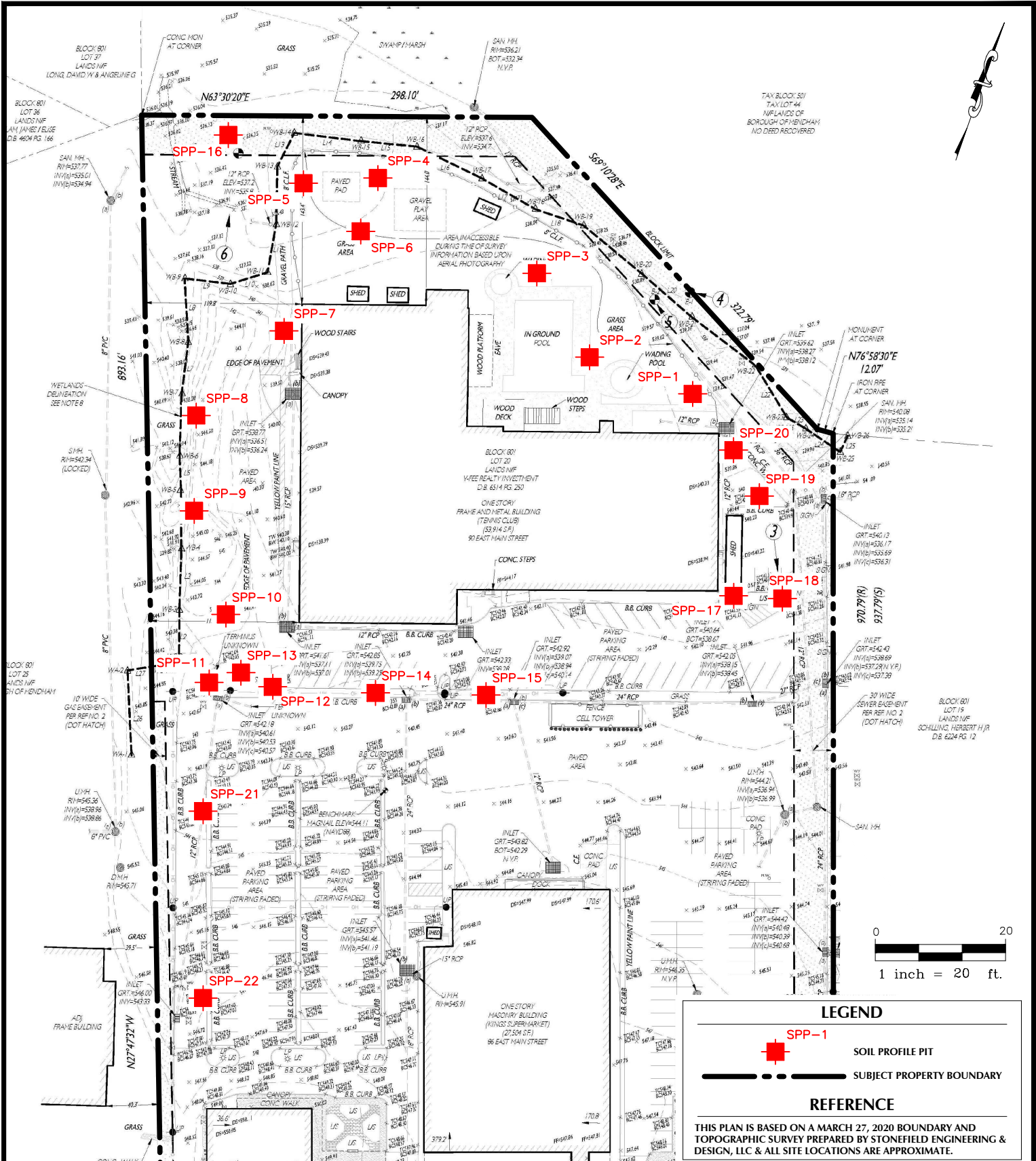
Laurence W. Keller, P.E.  
 Vice President

KK/rs L:\Job Folders\2020\2017433GJ\Reports and Submittals\17433.001 SWM.docx  
 Enclosures  
 Copy:





**FIGURE 1**  
**Test Location Plan**



PROJECT #: <b>GJ2017433.001</b>	
DESIGNED BY: <b>GR</b>	PROJ. MGR.: <b>KK</b>
DATE: <b>3/21/23</b>	FIGURE: <b>1</b>
SCALE: <b>1" = 20'</b>	

**DRAWING TITLE:**  
**TEST LOCATION PLAN**

**CLIENT:**  
**V-FEE REALTY INVESTMENT, LLC**

**PROJECT:**  
**PROPOSED RESIDENTIAL REDEVELOPMENT**  
**84-90 EAST MAIN STREET**  
**MENDHAM, MORRIS COUNTY, NJ**



**WHITESTONE**  
*An Employee-Owned Company*

30 INDEPENDENCE BOULEVARD, SUITE 250, WARREN, NJ 07059  
 908.668.7777 WHITESTONEASSOC.COM

# **APPENDIX C**

## **HYDROLOGIC & HYDRAULIC CALCULATIONS**

### **INVENTORY**

**C-1: HYDROCAD ROUTING DIAGRAMS**

**C-2: WQ STORM EVENT HYDROGRAPHS**

**C-3: 2-YEAR STORM EVENT HYDROGRAPHS**

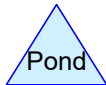
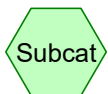
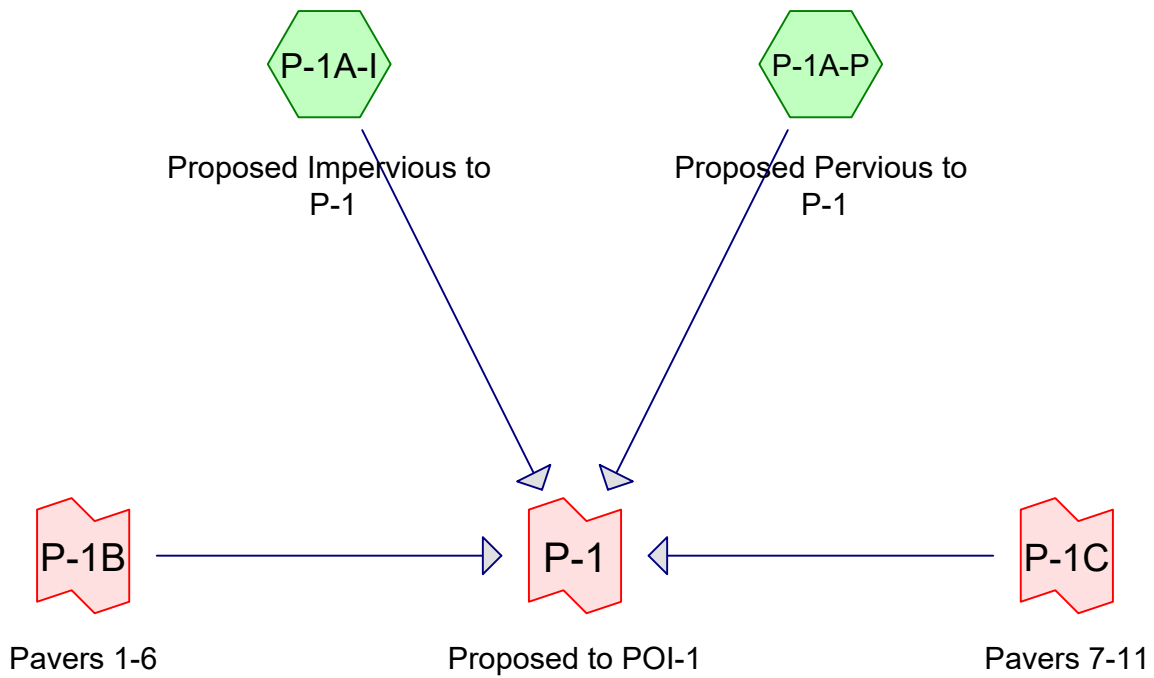
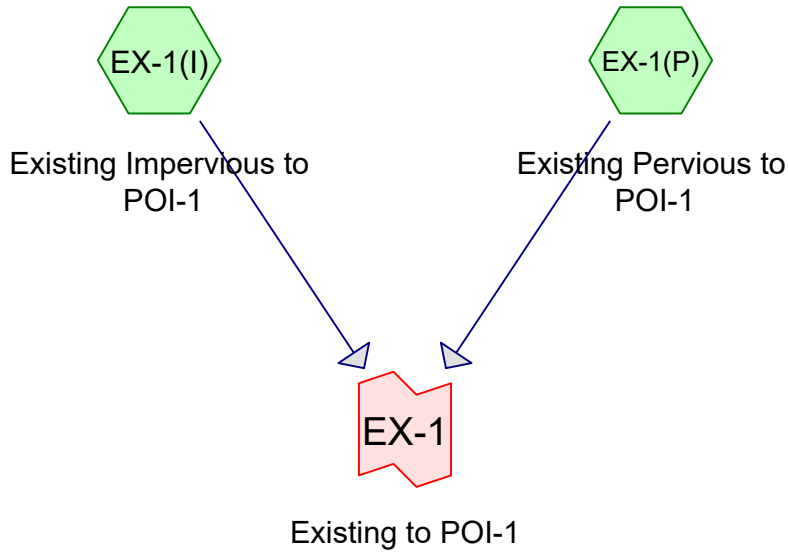
**C-4: 10-YEAR STORM EVENT HYDROGRAPHS**

**C-5: 100-YEAR STORM EVENT HYDROGRAPHS**

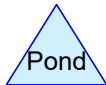
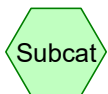
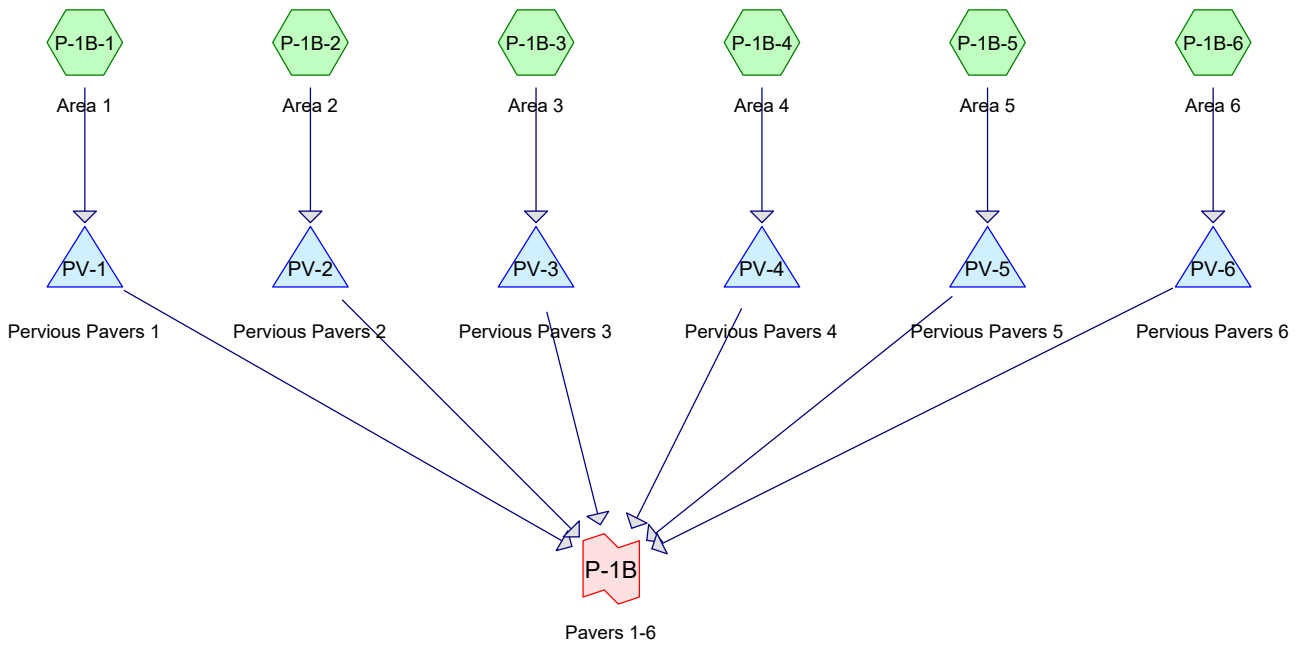
**C-6: POI-2 COMPARISON HYDROGRAPHS**

**C-7: BMP STORAGE & DISCHARGE TABLES**

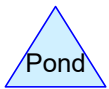
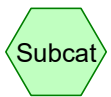
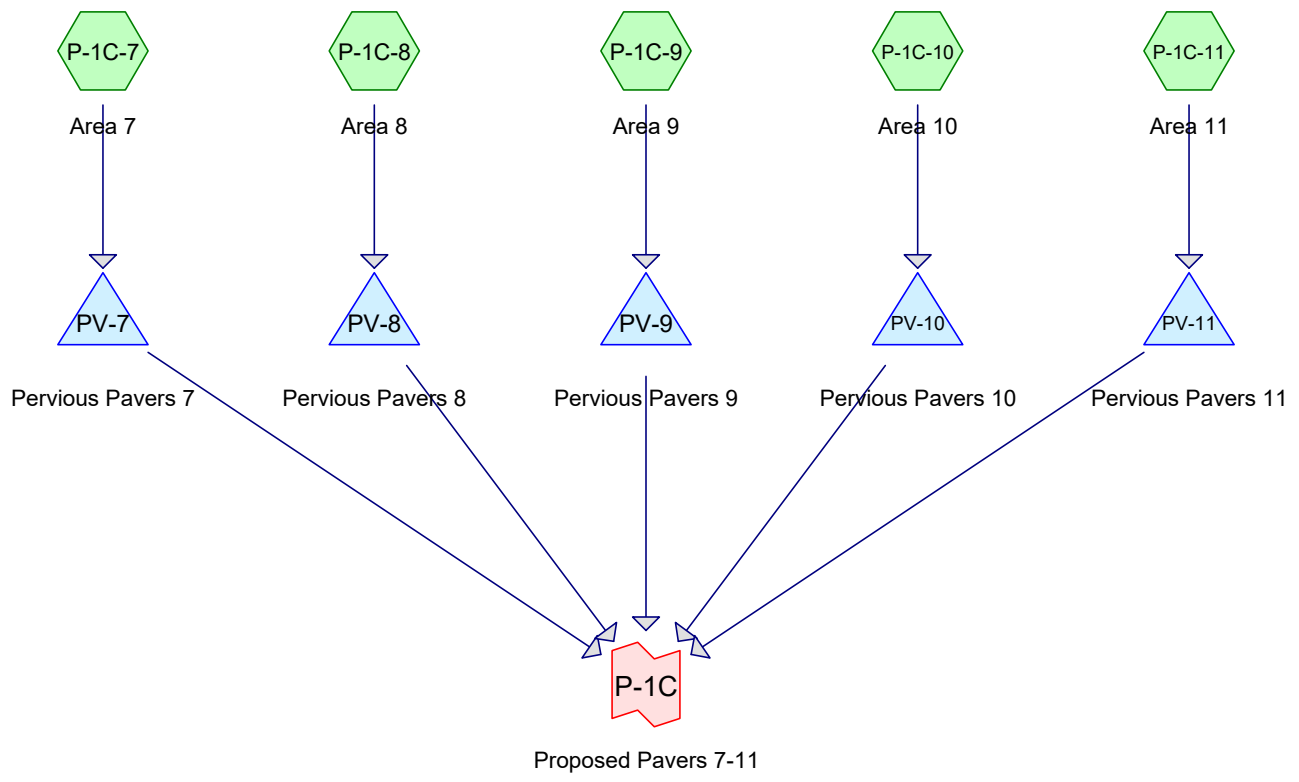




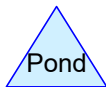
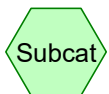
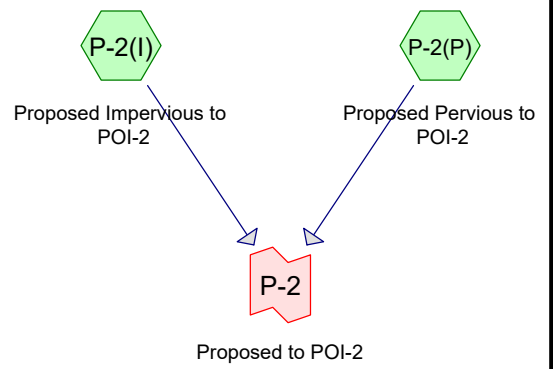
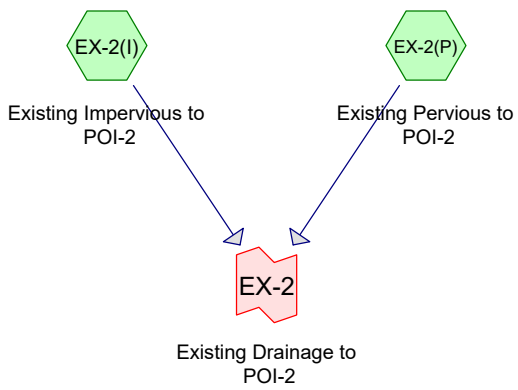
**Routing Diagram for 2023-05-17-POI-1 - Total**  
 Prepared by Stonefield Engineering & Design, Printed 5/19/2023  
 HydroCAD® 10.20-2g s/n 10626 © 2022 HydroCAD Software Solutions LLC



**Routing Diagram for 2023-05-17-POI-1 - Pavers 1-6**  
 Prepared by Stonefield Engineering & Design, Printed 5/19/2023  
 HydroCAD® 10.20-2g s/n 10626 © 2022 HydroCAD Software Solutions LLC



**Routing Diagram for 2023-05-17-POI-1 - Pavers 7-11**  
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**Routing Diagram for 2023-05-17-POI-2**  
 Prepared by Stonefield Engineering & Design, Printed 5/19/2023  
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**Summary for Subcatchment EX-1(I): Existing Impervious to POI-1**

[47] Hint: Peak is 131% of capacity of segment #2

[47] Hint: Peak is 125% of capacity of segment #3

[47] Hint: Peak is 112% of capacity of segment #4

Runoff = 4.27 cfs @ 1.09 hrs, Volume= 5,264 cf, Depth= 1.03"  
 Routed to Link EX-1 : Existing to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

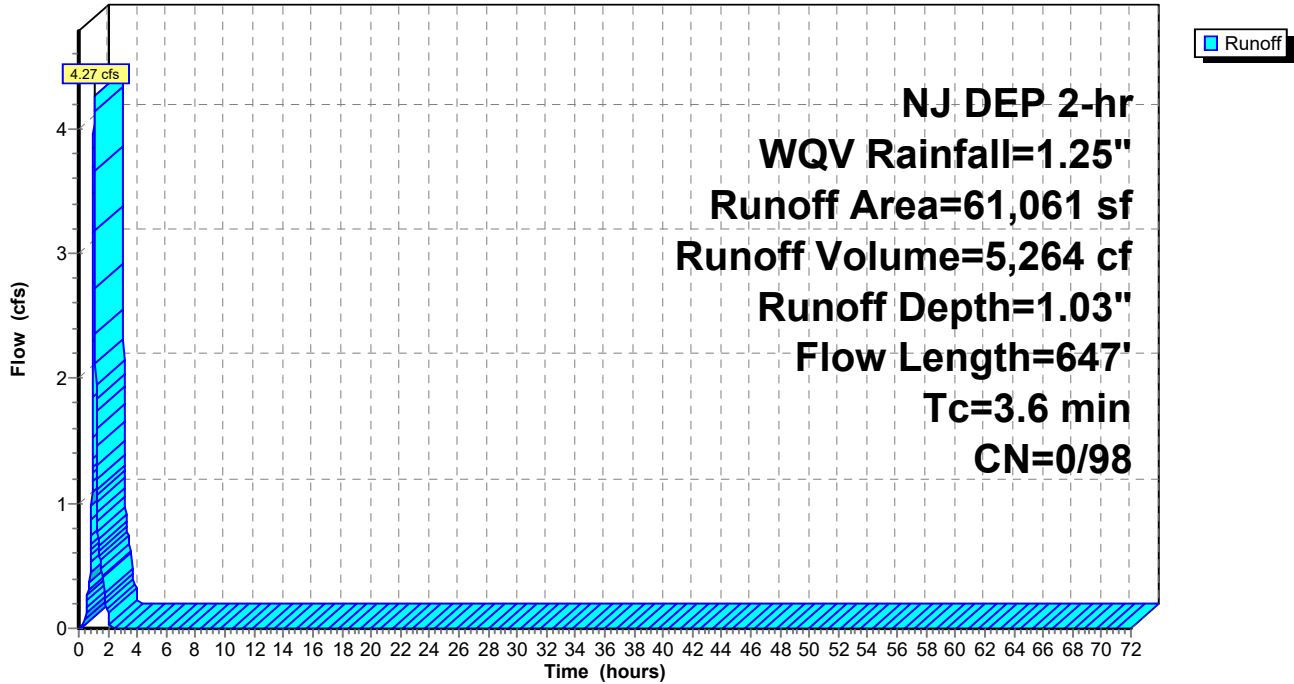
	Area (sf)	CN	Description
*	40,269	98	Impervious
*	20,792	98	MVS
	61,061	98	Weighted Average
	61,061	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	66	0.0139	1.15		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.6	139	0.0084	4.16	3.27	<b>Pipe Channel, 2ai-3ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
1.1	181	0.0028	2.79	3.42	<b>Pipe Channel, 3ai-4ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.7	130	0.0035	3.11	3.82	<b>Pipe Channel, 4ai-5ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	75	0.0075	9.90	62.40	<b>Trap/Vee/Rect Channel Flow, 5ai-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
3.6	647	Total			



Subcatchment EX-1(I): Existing Impervious to POI-1

Hydrograph



**Summary for Subcatchment EX-1(P): Existing Pervious to POI-1**

Runoff = 0.24 cfs @ 1.34 hrs, Volume= 524 cf, Depth= 0.13"  
 Routed to Link EX-1 : Existing to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

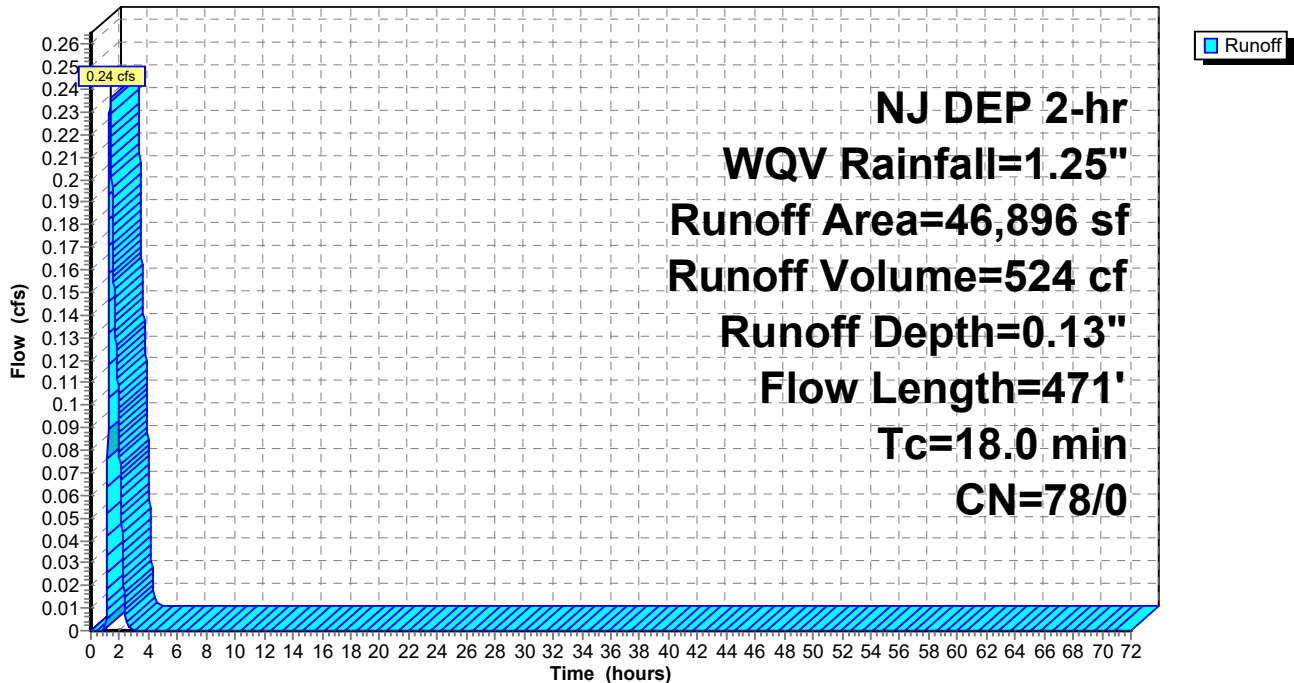
Area (sf)	CN	Description
34,127	77	Woods, Good, HSG D
12,769	80	>75% Grass cover, Good, HSG D
46,896	78	Weighted Average
46,896	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	92	0.0250	0.09		<b>Sheet Flow, 1ap-2ap</b> Woods: Light underbrush n= 0.400 P2= 3.54"
0.4	323	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 2ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
18.0	471	Total			

**Subcatchment EX-1(P): Existing Pervious to POI-1**

Hydrograph



**2023-05-17-POI-1 - Total**

NJ DEP 2-hr WQV Rainfall=1.25"

Prepared by Stonefield Engineering & Design

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Page 5

**Summary for Subcatchment P-1A-I: Proposed Impervious to P-1**

[47] Hint: Peak is 189% of capacity of segment #2

Runoff = 0.89 cfs @ 1.08 hrs, Volume= 1,083 cf, Depth= 1.03"  
 Routed to Link P-1 : Proposed to POI-1

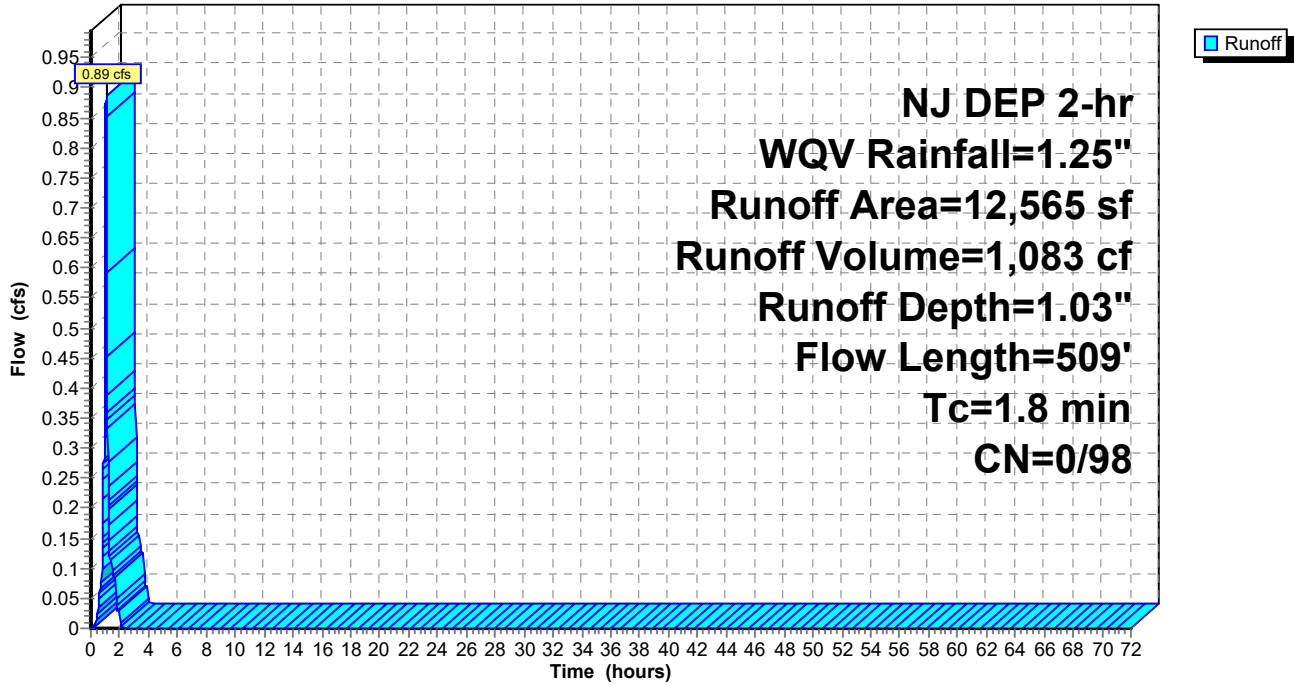
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

Area (sf)	CN	Description
* 12,565	98	Impervious (pool area)
12,565	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	49	0.0100	0.95		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.1	16	0.0050	2.39	0.47	<b>Pipe Channel, 3ai-4ai</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.011
0.2	44	0.0050	3.47	2.73	<b>Pipe Channel, 4ai-5ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.2	51	0.0050	4.03	4.95	<b>Pipe Channel, 5ai - X</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
1.8	509	Total			

### Subcatchment P-1A-I: Proposed Impervious to P-1

Hydrograph



**2023-05-17-POI-1 - Total**

NJ DEP 2-hr WQV Rainfall=1.25"

Prepared by Stonefield Engineering & Design

Printed 5/19/2023

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Page 7

**Summary for Subcatchment P-1A-P: Proposed Pervious to P-1**

Runoff = 0.33 cfs @ 1.36 hrs, Volume= 733 cf, Depth= 0.13"

Routed to Link P-1 : Proposed to POI-1

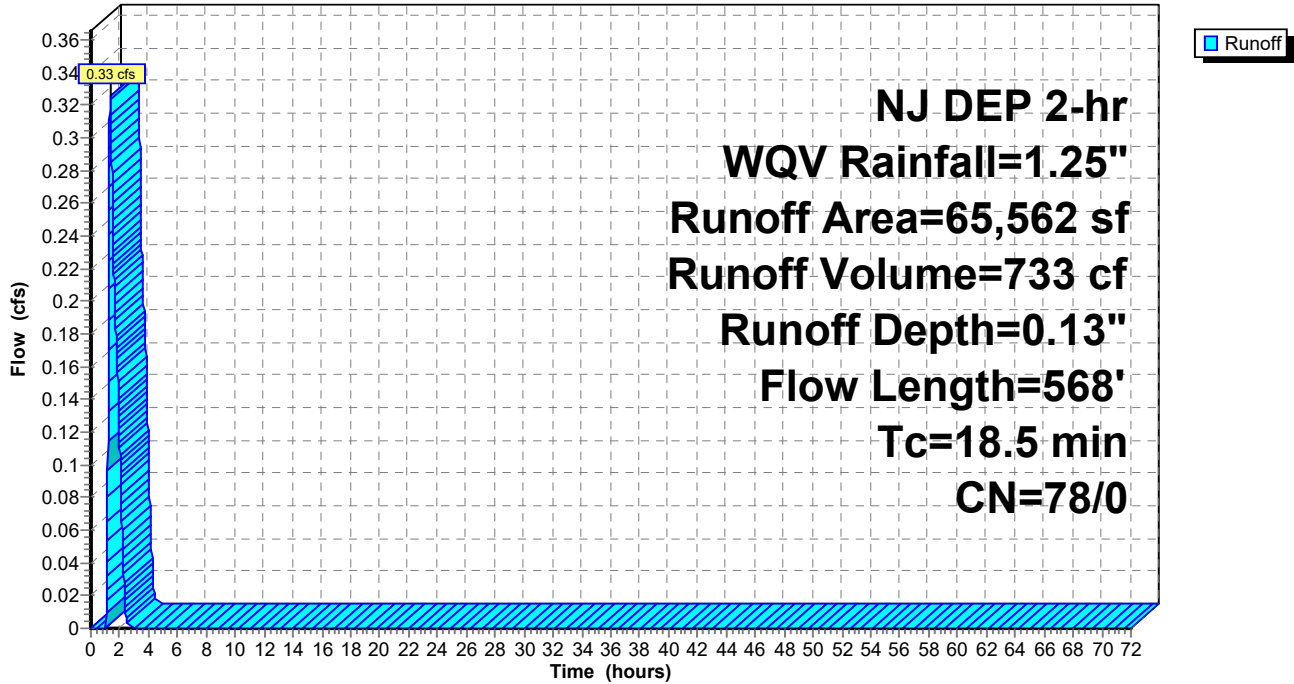
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

Area (sf)	CN	Description
37,078	77	Woods, Good, HSG D
28,484	80	>75% Grass cover, Good, HSG D
65,562	78	Weighted Average
65,562	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	100	0.0060	0.11		<b>Sheet Flow, 1ap-2ap</b> Grass: Short n= 0.150 P2= 3.54"
0.6	20	0.0060	0.54		<b>Shallow Concentrated Flow, 2ap-3ap</b> Short Grass Pasture Kv= 7.0 fps
2.4	69	0.0095	0.49		<b>Shallow Concentrated Flow, 3ap-4ap</b> Woodland Kv= 5.0 fps
0.0	30	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 4ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
18.5	568	Total			

**Subcatchment P-1A-P: Proposed Pervious to P-1**

Hydrograph



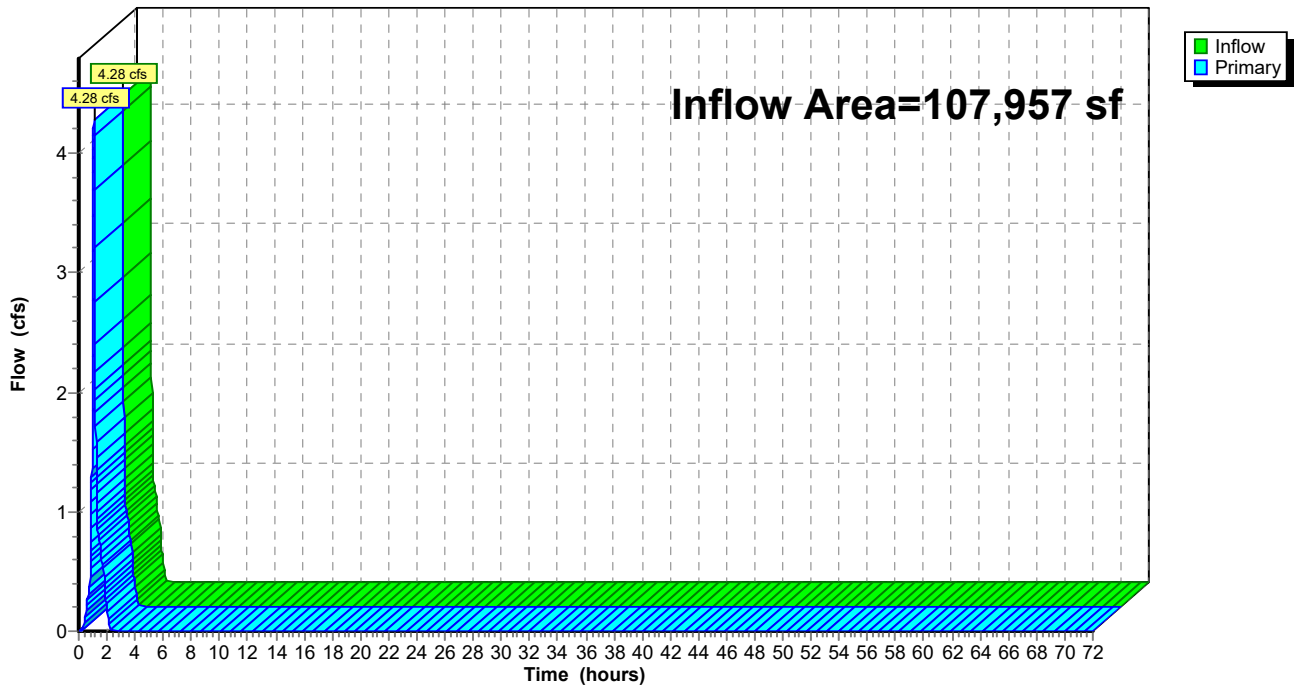
### Summary for Link EX-1: Existing to POI-1

Inflow Area = 107,957 sf, 56.56% Impervious, Inflow Depth = 0.64" for WQV event  
Inflow = 4.28 cfs @ 1.09 hrs, Volume= 5,789 cf  
Primary = 4.28 cfs @ 1.09 hrs, Volume= 5,789 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-1: Existing to POI-1

Hydrograph



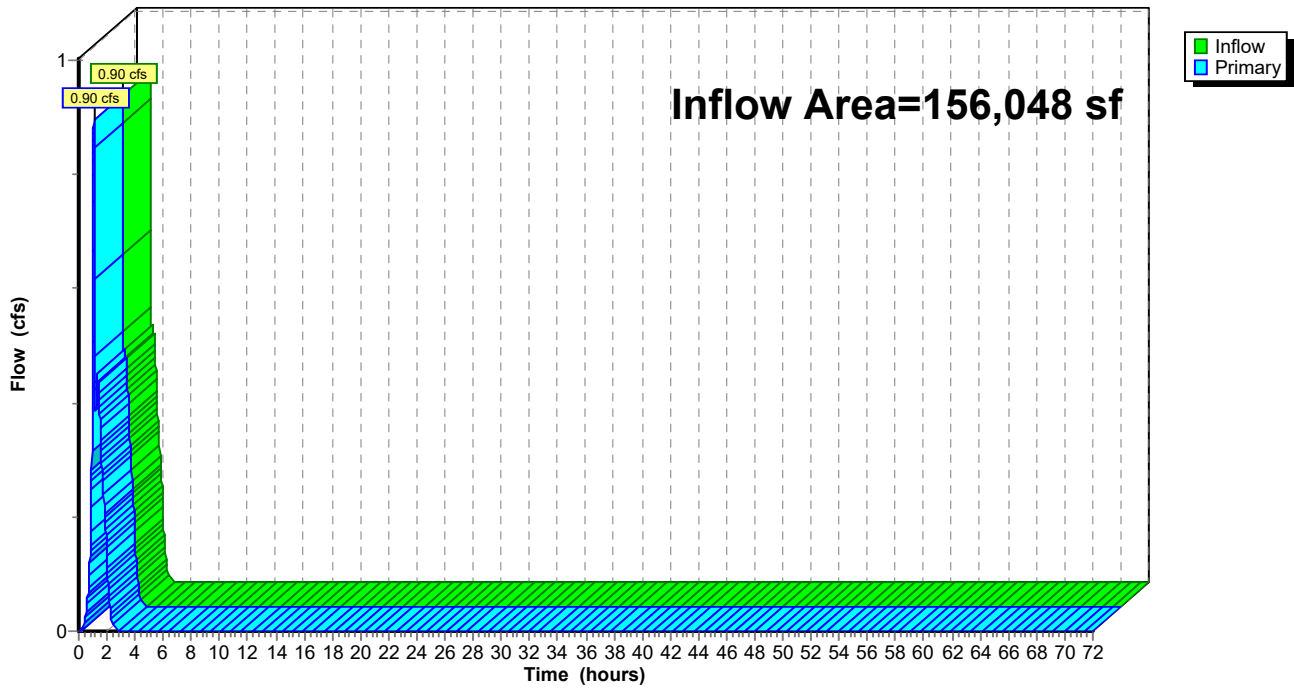
### Summary for Link P-1: Proposed to POI-1

Inflow Area = 156,048 sf, 30.93% Impervious, Inflow Depth = 0.14" for WQV event  
Inflow = 0.90 cfs @ 1.08 hrs, Volume= 1,816 cf  
Primary = 0.90 cfs @ 1.08 hrs, Volume= 1,816 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1: Proposed to POI-1

Hydrograph





### Summary for Link P-1B: Pavers 1-6

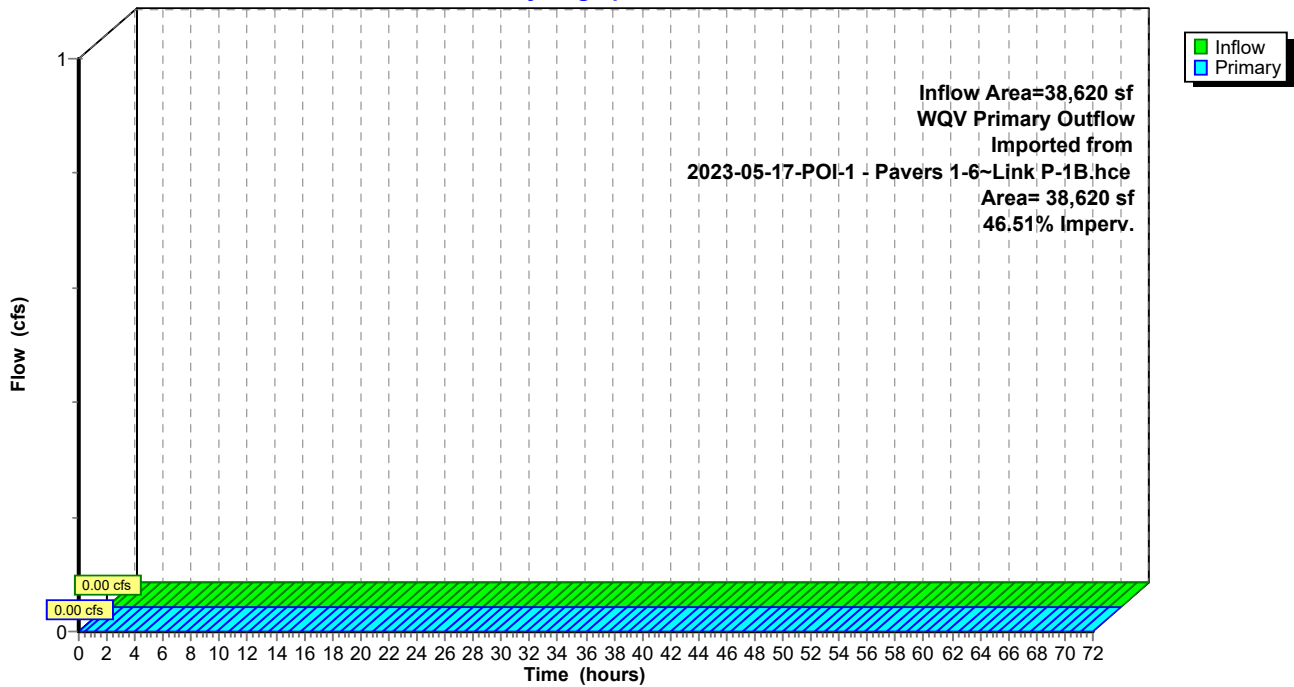
Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 0.00" for WQV event  
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min  
Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

WQV Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 1-6~Link P-1B.hce

### Link P-1B: Pavers 1-6

Hydrograph



### Summary for Link P-1C: Pavers 7-11

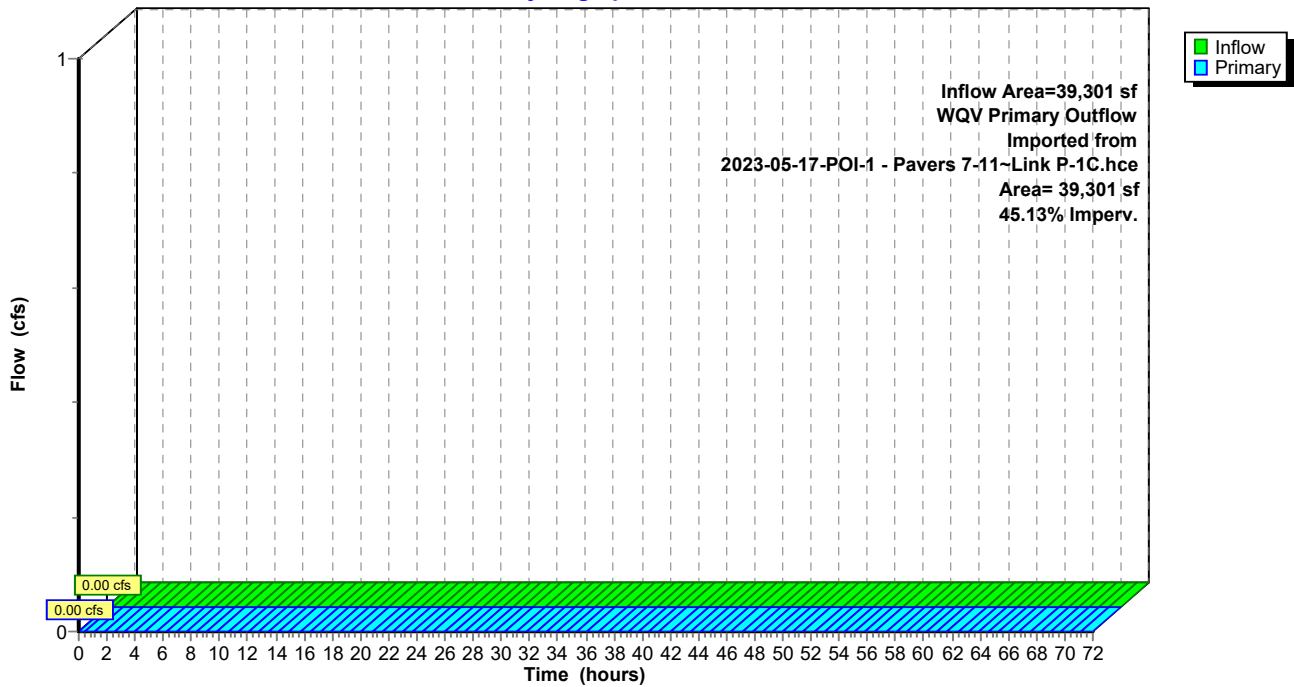
Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 0.00" for WQV event  
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min  
Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

WQV Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 7-11~Link P-1C.hce

### Link P-1C: Pavers 7-11

Hydrograph



**Summary for Subcatchment P-1B-1: Area 1**

Runoff = 0.45 cfs @ 1.09 hrs, Volume= 515 cf, Depth= 0.65"  
 Routed to Pond PV-1 : Pervious Pavers 1

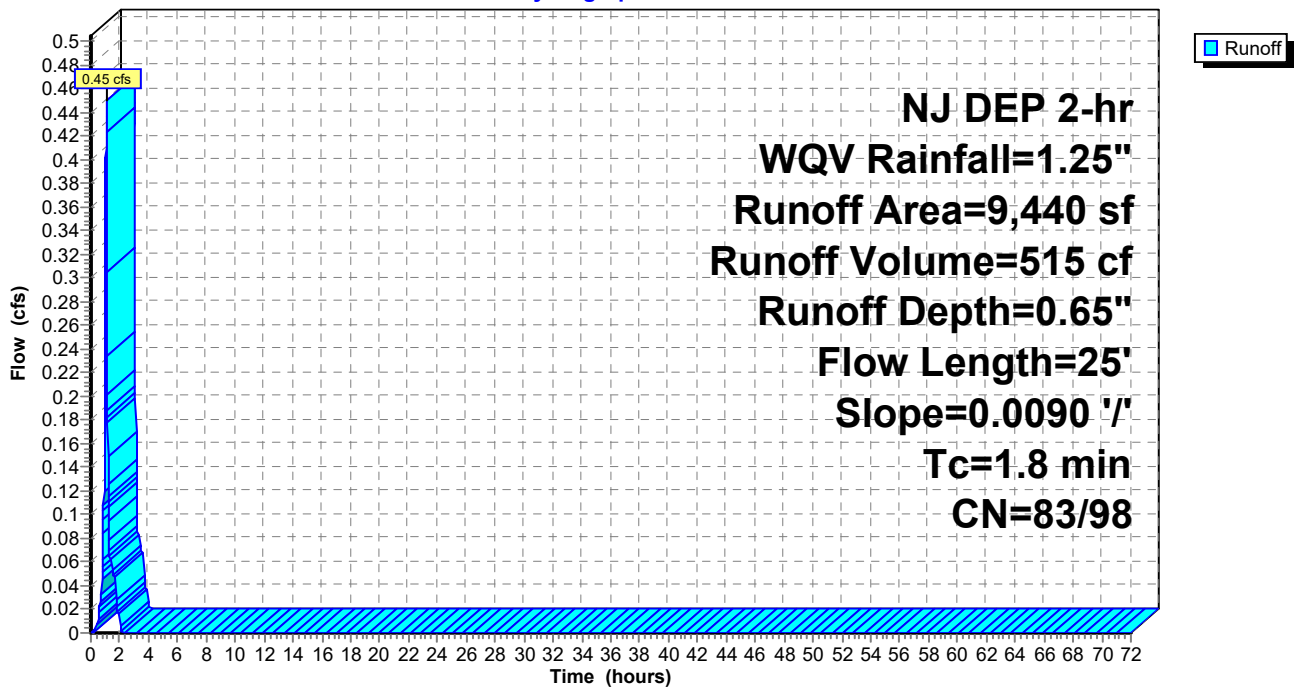
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

**Subcatchment P-1B-1: Area 1**

Hydrograph



### Summary for Subcatchment P-1B-2: Area 2

Runoff = 0.20 cfs @ 1.09 hrs, Volume= 230 cf, Depth= 0.57"  
 Routed to Pond PV-2 : Pervious Pavers 2

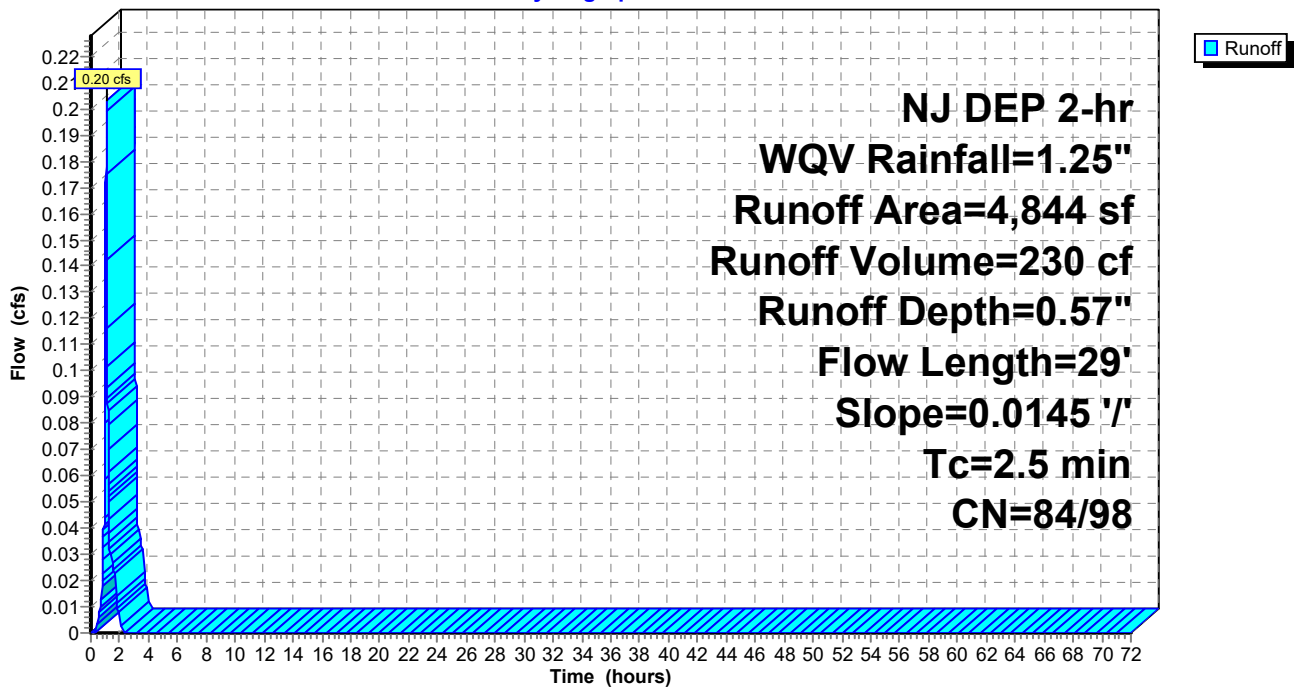
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

### Subcatchment P-1B-2: Area 2

Hydrograph



### Summary for Subcatchment P-1B-3: Area 3

Runoff = 0.28 cfs @ 1.09 hrs, Volume= 327 cf, Depth= 0.60"  
 Routed to Pond PV-3 : Pervious Pavers 3

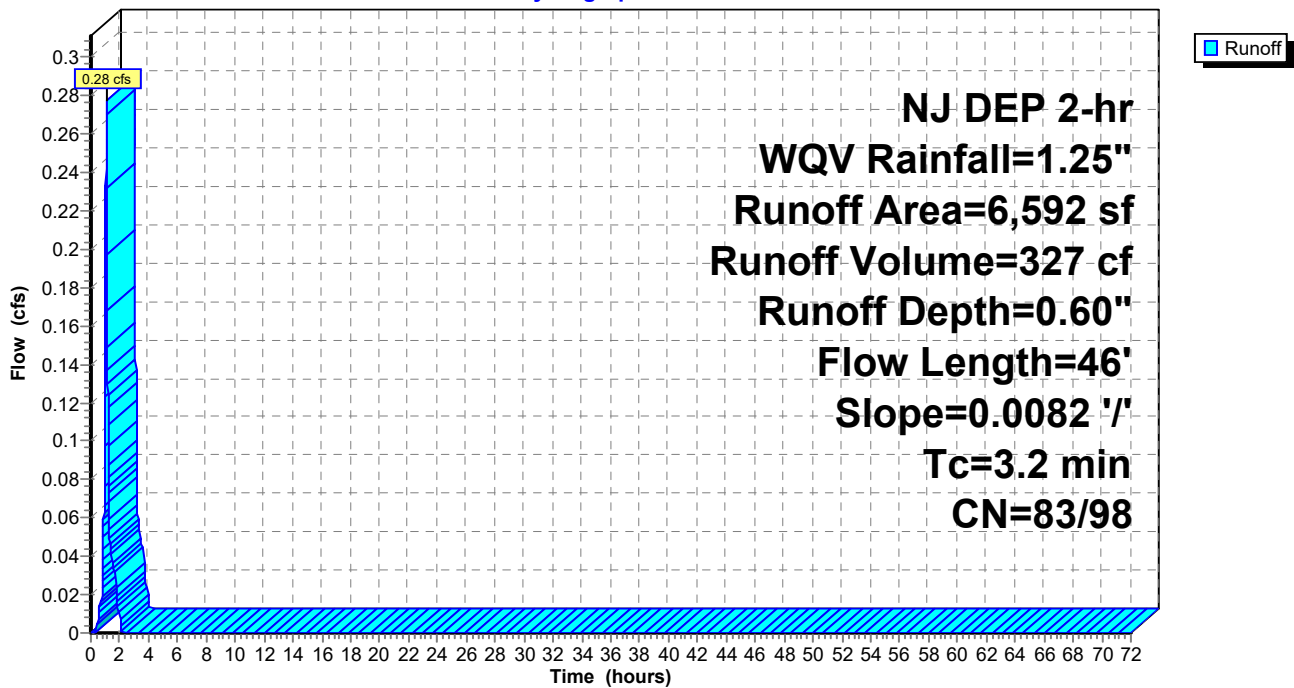
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	917	98	Impervious
*	2,010	98	MVS - Impervious
*	2,400	85	MVS - Pervious Pavers
	1,265	80	>75% Grass cover, Good, HSG D
	6,592	90	Weighted Average
	3,665	83	55.60% Pervious Area
	2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

### Subcatchment P-1B-3: Area 3

Hydrograph



**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 0.24 cfs @ 1.10 hrs, Volume= 281 cf, Depth= 0.61"  
 Routed to Pond PV-4 : Pervious Pavers 4

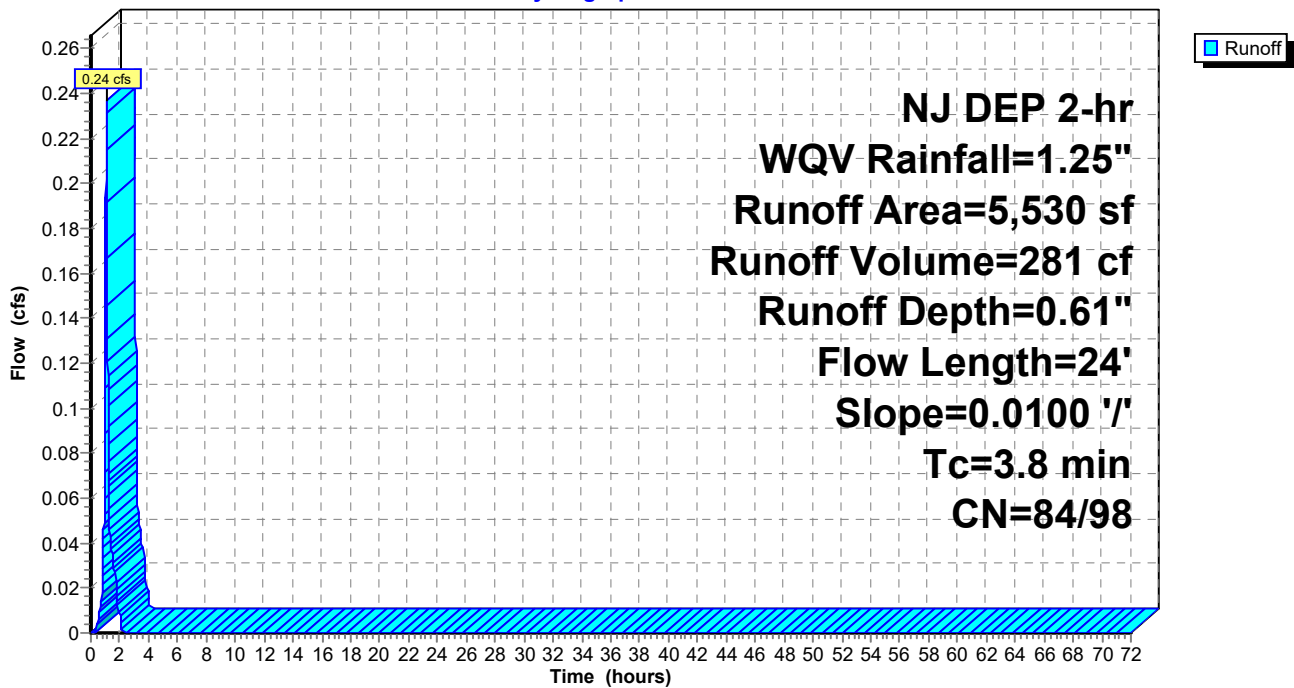
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b> Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b> Paved Kv= 20.3 fps
3.8	24	Total			

**Subcatchment P-1B-4: Area 4**

Hydrograph



### Summary for Subcatchment P-1B-5: Area 5

Runoff = 0.24 cfs @ 1.10 hrs, Volume= 274 cf, Depth= 0.52"  
 Routed to Pond PV-5 : Pervious Pavers 5

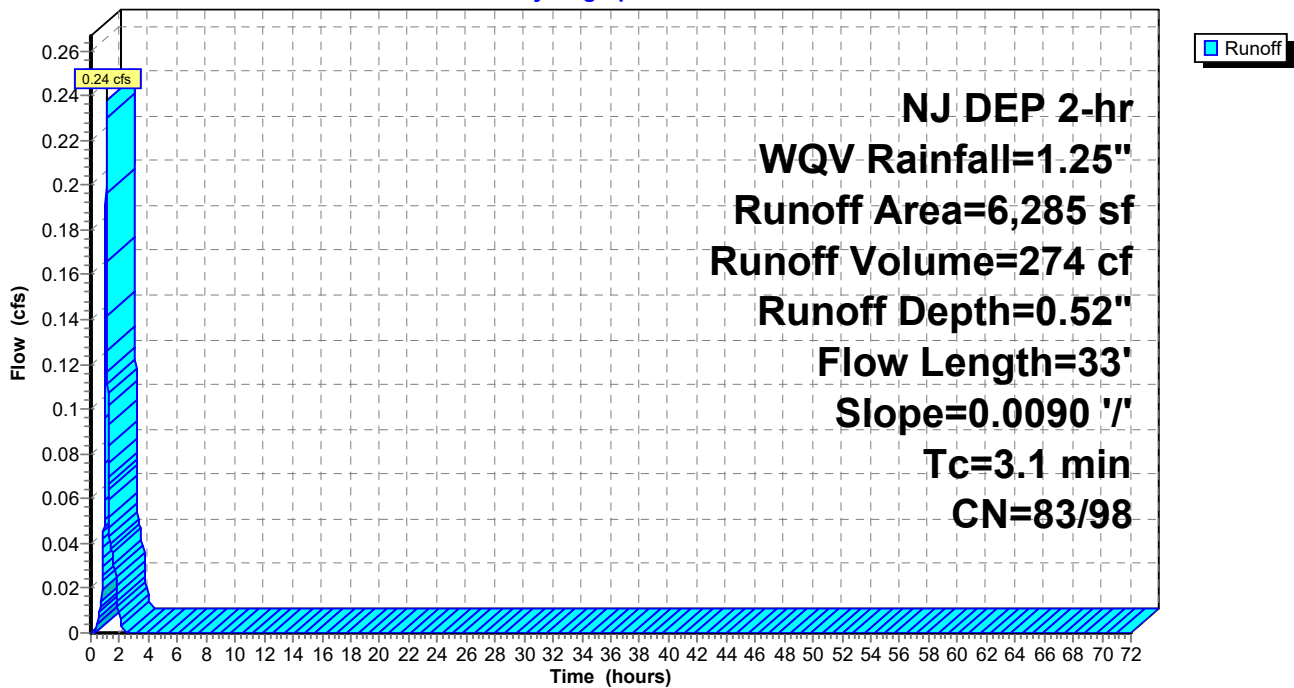
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

### Subcatchment P-1B-5: Area 5

Hydrograph



**Summary for Subcatchment P-1B-6: Area 6**

Runoff = 0.27 cfs @ 1.13 hrs, Volume= 357 cf, Depth= 0.72"  
 Routed to Pond PV-6 : Pervious Pavers 6

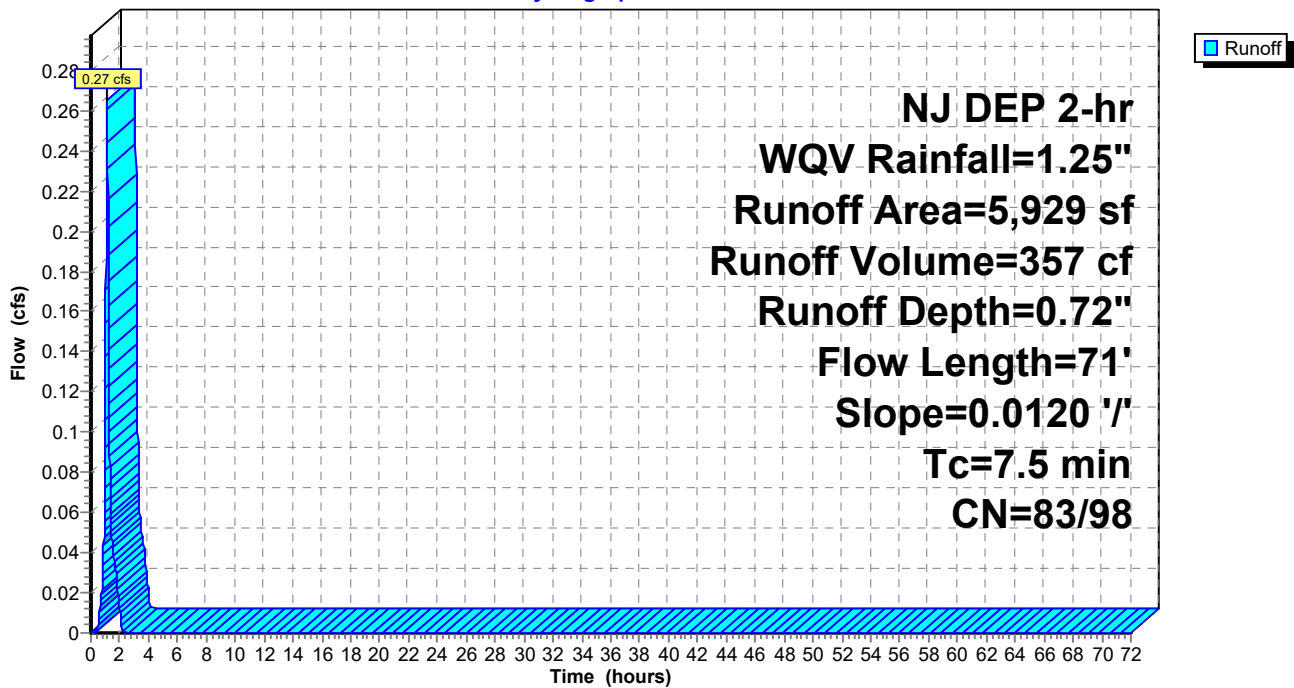
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b>
					Paved Kv= 20.3 fps
7.5	71	Total			

**Subcatchment P-1B-6: Area 6**

Hydrograph





**Summary for Pond PV-1: Pervious Pavers 1**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 0.65" for WQV event  
 Inflow = 0.45 cfs @ 1.09 hrs, Volume= 515 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.30' @ 2.11 hrs Surf.Area= 3,078 sf Storage= 515 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	541.88'	2,401 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,002 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.88	3,078	0	0
543.83	3,078	6,002	6,002

Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.55'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

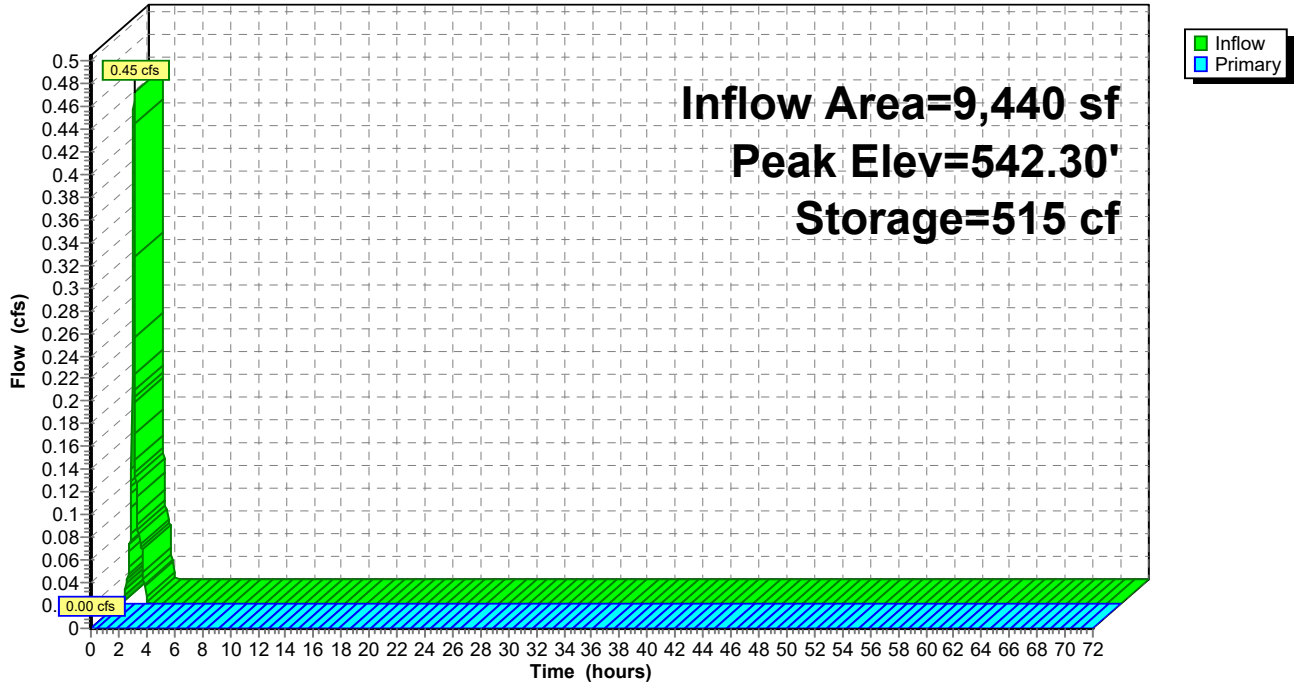
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=541.88' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.21 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-1: Pervious Pavers 1

Hydrograph



**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 0.57" for WQV event  
 Inflow = 0.20 cfs @ 1.09 hrs, Volume= 230 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.51' @ 2.15 hrs Surf.Area= 2,214 sf Storage= 230 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	542.25'	1,311 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,277 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.25	2,214	0	0
543.73	2,214	3,277	3,277

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.92'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

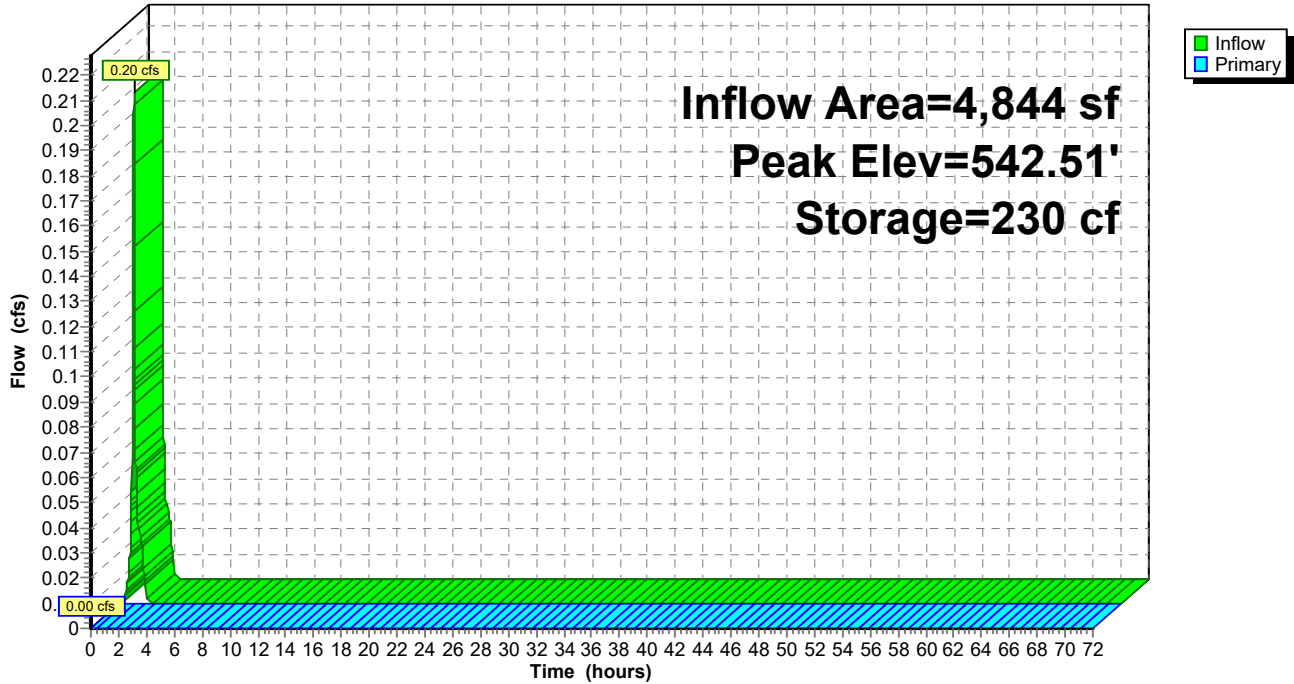
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.25' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.50 potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-2: Pervious Pavers 2

Hydrograph



### Summary for Pond PV-3: Pervious Pavers 3

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 0.60" for WQV event  
 Inflow = 0.28 cfs @ 1.09 hrs, Volume= 327 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.38' @ 2.19 hrs Surf.Area= 2,400 sf Storage= 327 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	542.04'	1,718 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,296 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.04	2,400	0	0
543.83	2,400	4,296	4,296

Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.71'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

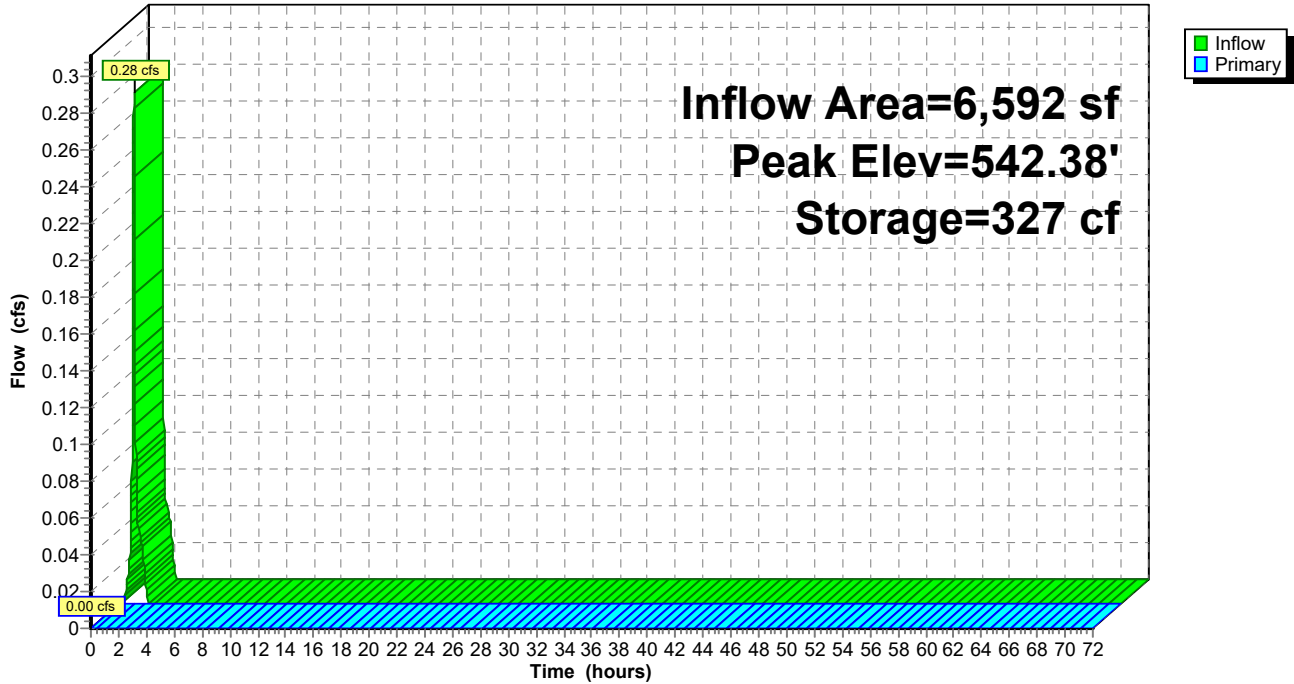
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.04' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.21 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-3: Pervious Pavers 3

Hydrograph



**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 0.61" for WQV event  
 Inflow = 0.24 cfs @ 1.10 hrs, Volume= 281 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.40' @ 2.22 hrs Surf.Area= 2,211 sf Storage= 281 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	542.08'	2,432 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,080 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.08	2,211	0	0
544.83	2,211	6,080	6,080

Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.75'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

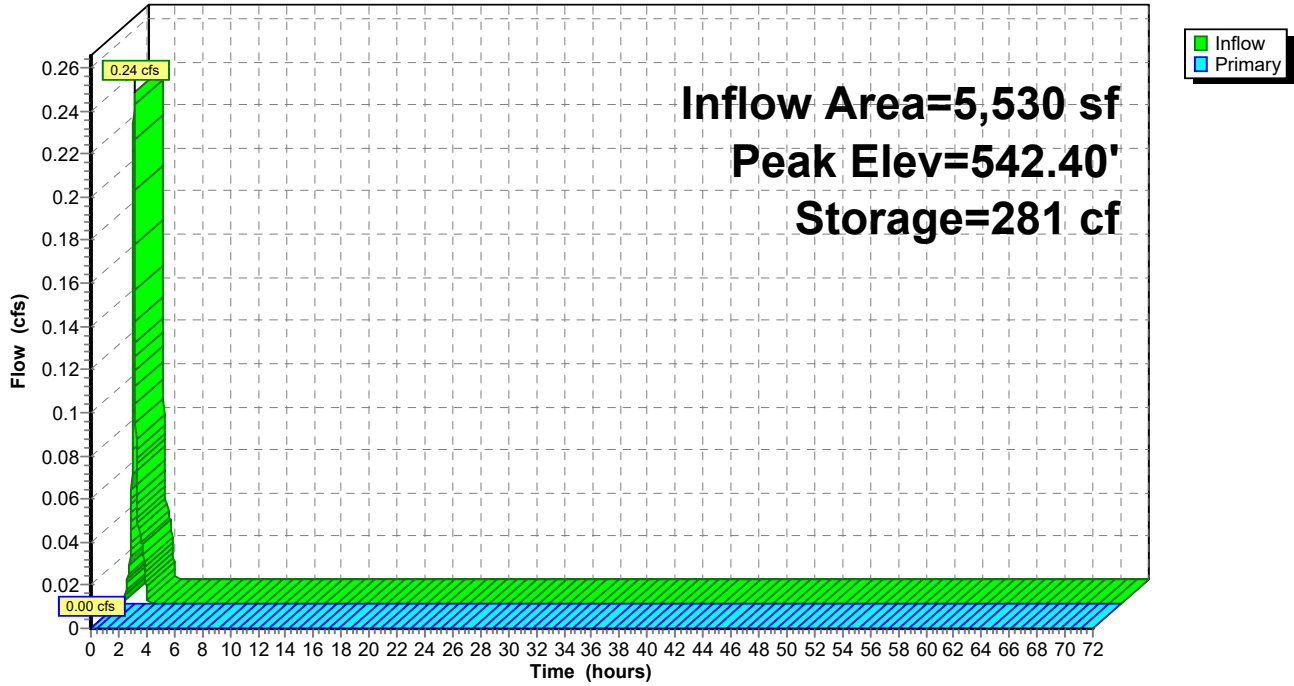
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.08' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.95 potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-4: Pervious Pavers 4

Hydrograph





**Summary for Pond PV-5: Pervious Pavers 5**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 0.52" for WQV event  
 Inflow = 0.24 cfs @ 1.10 hrs, Volume= 274 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.51' @ 2.19 hrs Surf.Area= 2,400 sf Storage= 274 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	542.23'	1,536 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,840 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.23	2,400	0	0
543.83	2,400	3,840	3,840

Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.90'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

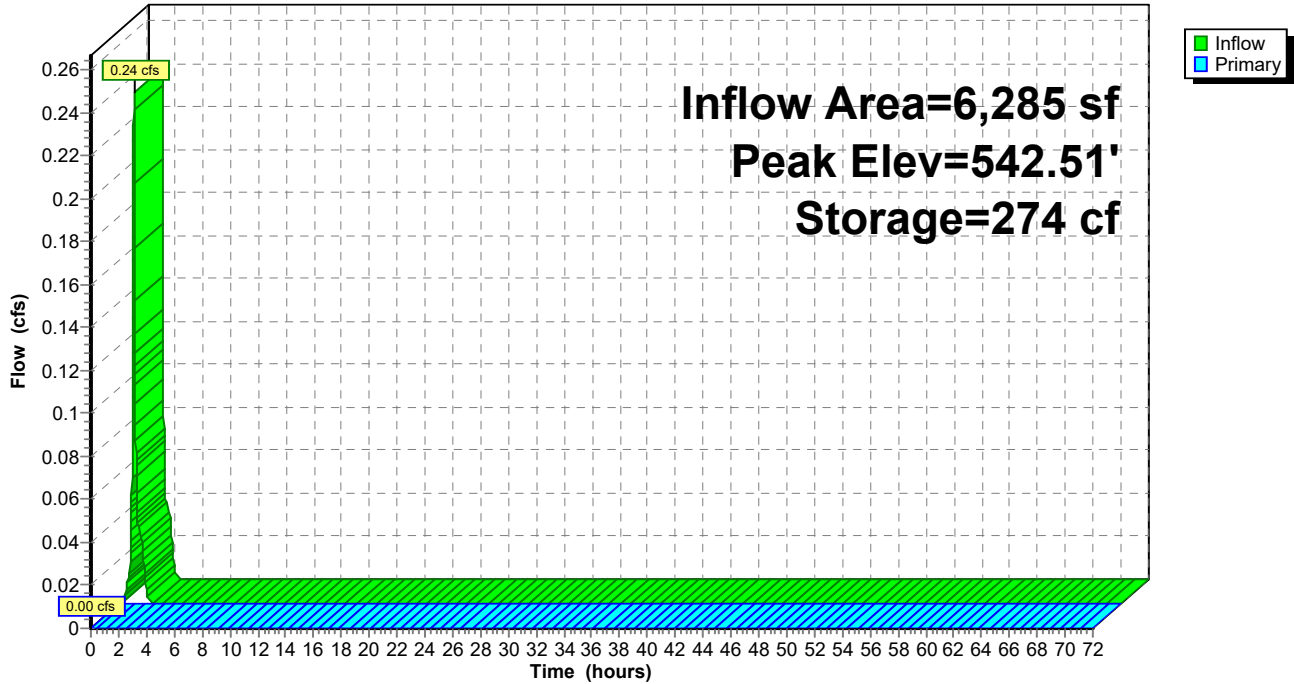
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.23' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.46 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-5: Pervious Pavers 5

Hydrograph



**Summary for Pond PV-6: Pervious Pavers 6**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 0.72" for WQV event  
 Inflow = 0.27 cfs @ 1.13 hrs, Volume= 357 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 541.79' @ 2.43 hrs Surf.Area= 1,488 sf Storage= 357 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	541.19'	1,363 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,408 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.19	1,488	0	0
543.48	1,488	3,408	3,408

Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	540.86'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

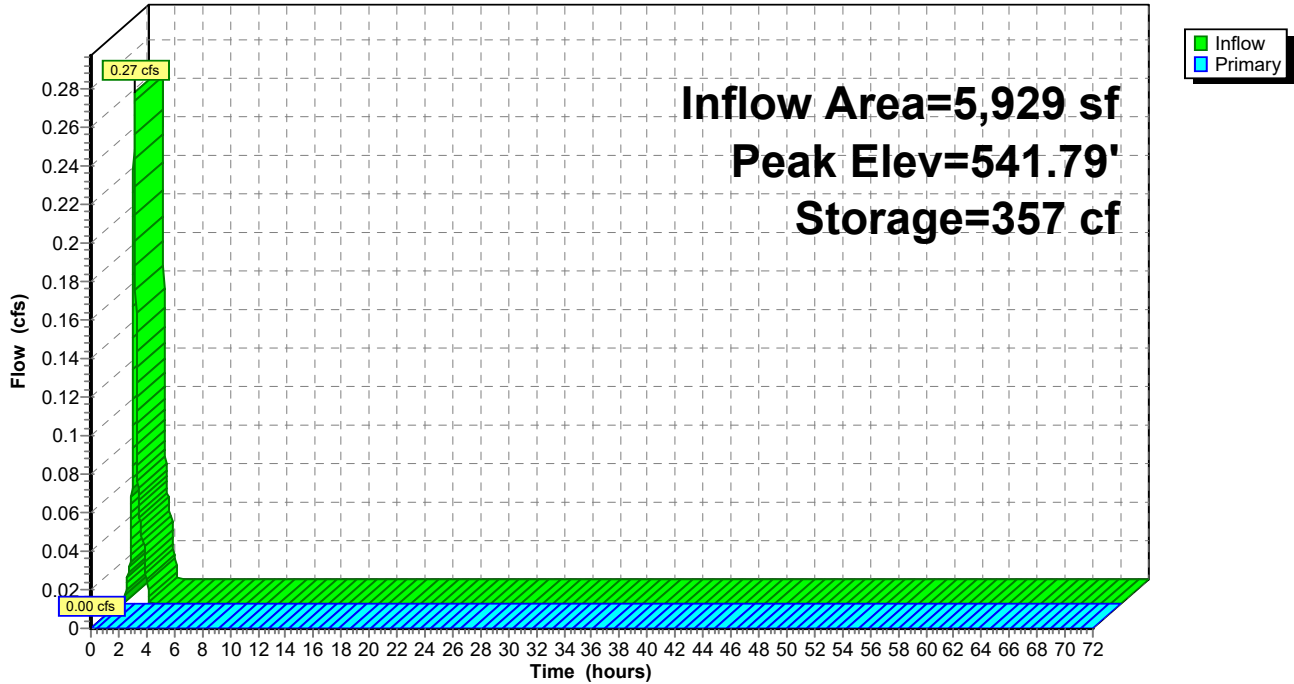
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=541.19' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.20 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-6: Pervious Pavers 6

Hydrograph



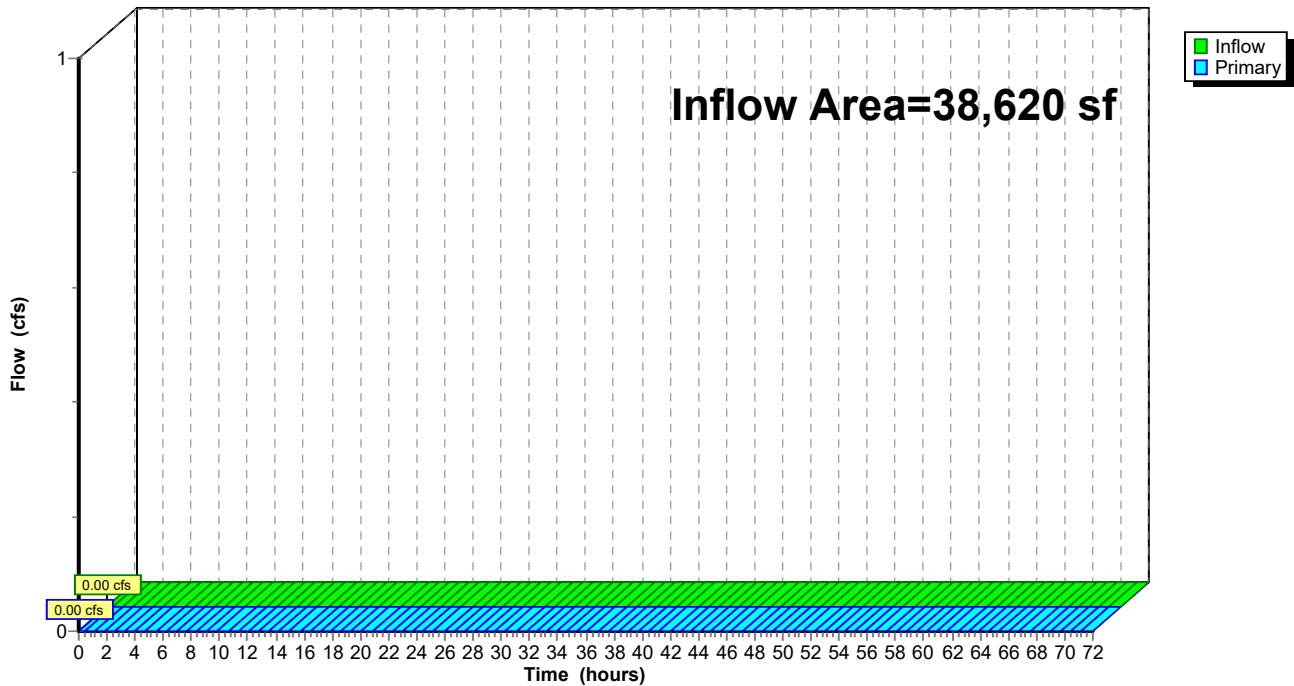
### Summary for Link P-1B: Pavers 1-6

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 0.00" for WQV event  
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1B: Pavers 1-6

Hydrograph



**Summary for Subcatchment P-1C-10: Area 10**

Runoff = 0.41 cfs @ 1.11 hrs, Volume= 516 cf, Depth= 0.56"  
 Routed to Pond PV-10 : Pervious Pavers 10

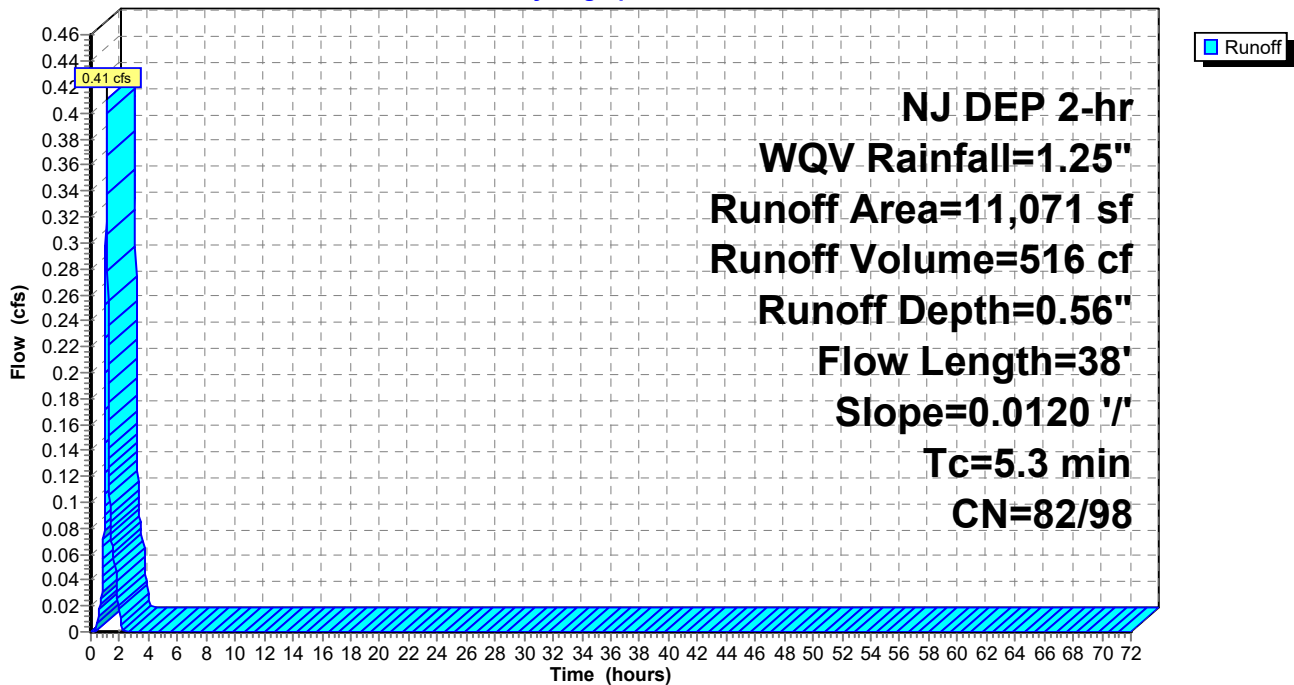
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	716	98	Impervious
*	3,912	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	880	74	>75% Grass cover, Good, HSG C
	1,999	80	>75% Grass cover, Good, HSG D
	11,071	89	Weighted Average
	6,443	82	58.20% Pervious Area
	4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		Sheet Flow, 10c1-10c2 Grass: Short n= 0.150 P2= 3.54"

**Subcatchment P-1C-10: Area 10**

Hydrograph



### Summary for Subcatchment P-1C-11: Area 11

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 0.35 cfs @ 1.08 hrs, Volume= 406 cf, Depth= 0.74"  
 Routed to Pond PV-11 : Pervious Pavers 11

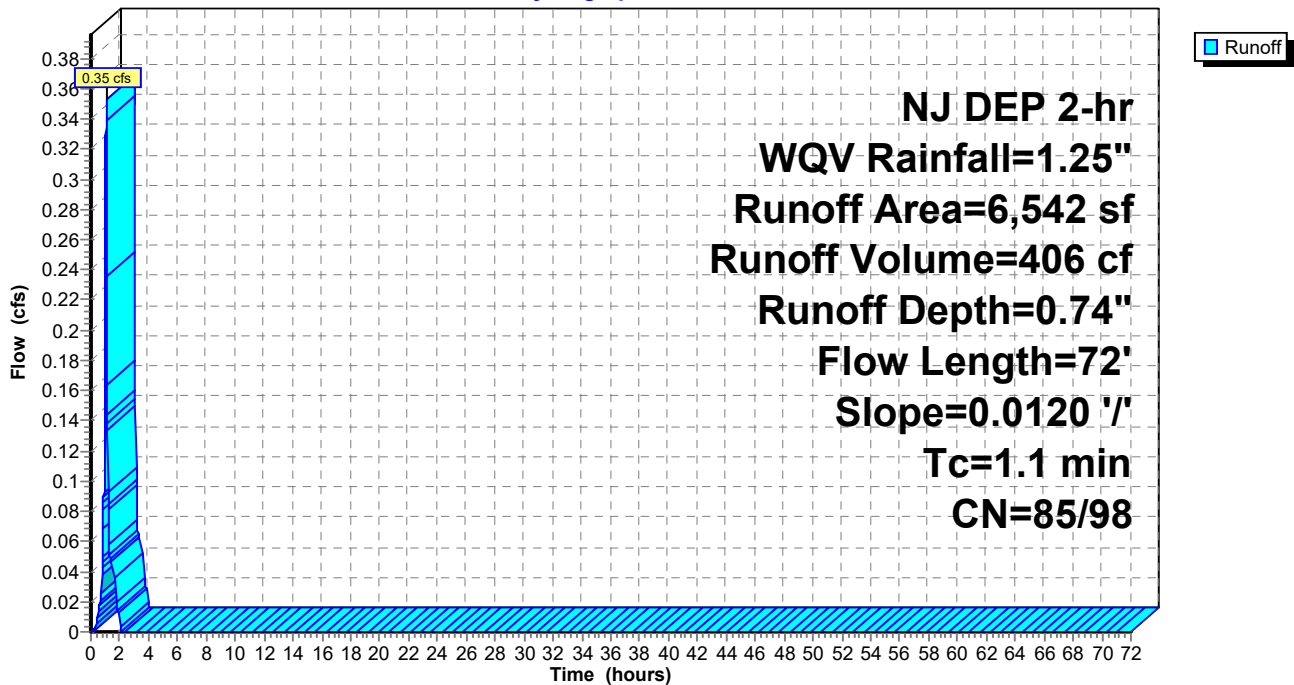
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs,  $dt= 0.01$  hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		Sheet Flow, 11c1-11c2 Smooth surfaces n= 0.011 P2= 3.54"

### Subcatchment P-1C-11: Area 11

Hydrograph



**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 0.33 cfs @ 1.10 hrs, Volume= 401 cf, Depth= 0.69"  
 Routed to Pond PV-7 : Pervious Pavers 7

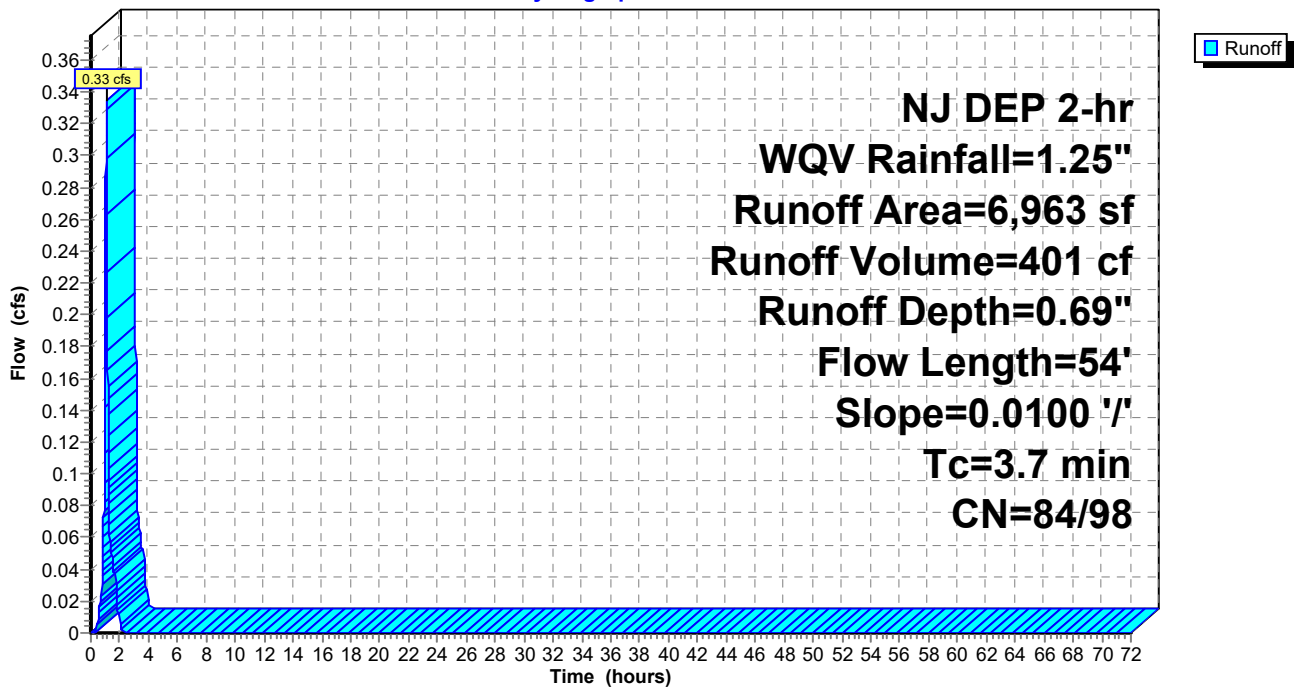
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	226	98	Impervious
*	3,598	98	MVS - Impervious
*	2,430	85	MVS - Pervious Pavers
	709	80	>75% Grass cover, Good, HSG D
	6,963	92	Weighted Average
	3,139	84	45.08% Pervious Area
	3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b>
					Paved Kv= 20.3 fps
3.7	54	Total			

**Subcatchment P-1C-7: Area 7**

Hydrograph





### Summary for Subcatchment P-1C-8: Area 8

Runoff = 0.25 cfs @ 1.09 hrs, Volume= 265 cf, Depth= 0.49"  
 Routed to Pond PV-8 : Pervious Pavers 8

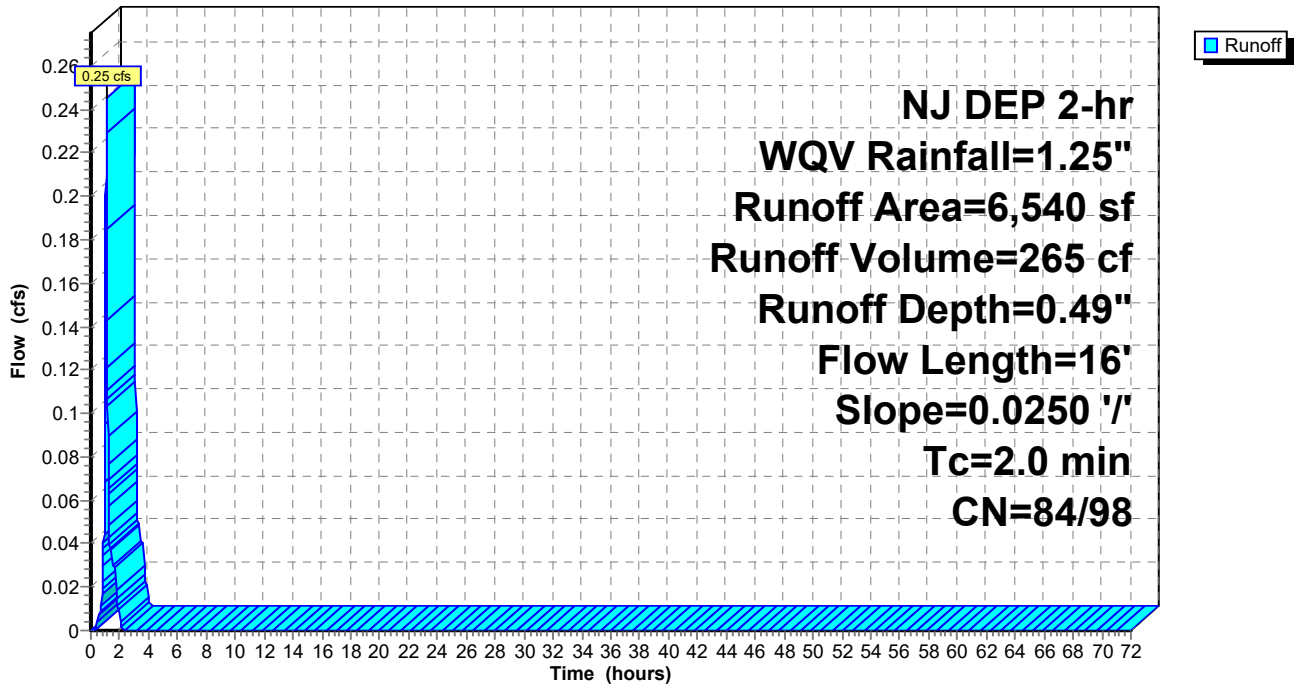
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 8c1-8c2</b> Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-8: Area 8

Hydrograph



### Summary for Subcatchment P-1C-9: Area 9

Runoff = 0.36 cfs @ 1.09 hrs, Volume= 408 cf, Depth= 0.60"  
 Routed to Pond PV-9 : Pervious Pavers 9

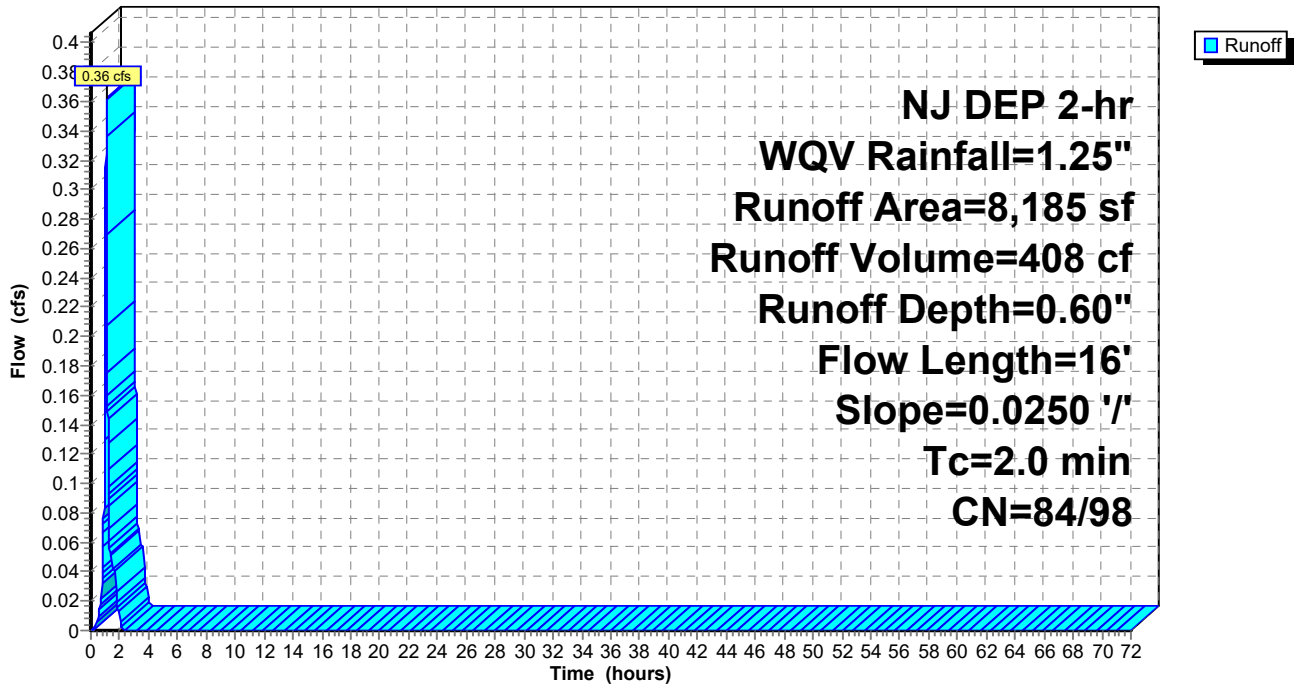
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 9c1-9c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-9: Area 9

Hydrograph



**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 0.56" for WQV event  
 Inflow = 0.41 cfs @ 1.11 hrs, Volume= 516 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.99' @ 2.31 hrs Surf.Area= 3,564 sf Storage= 516 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	542.63'	3,208 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 8,019 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.63	3,564	0	0
544.88	3,564	8,019	8,019

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

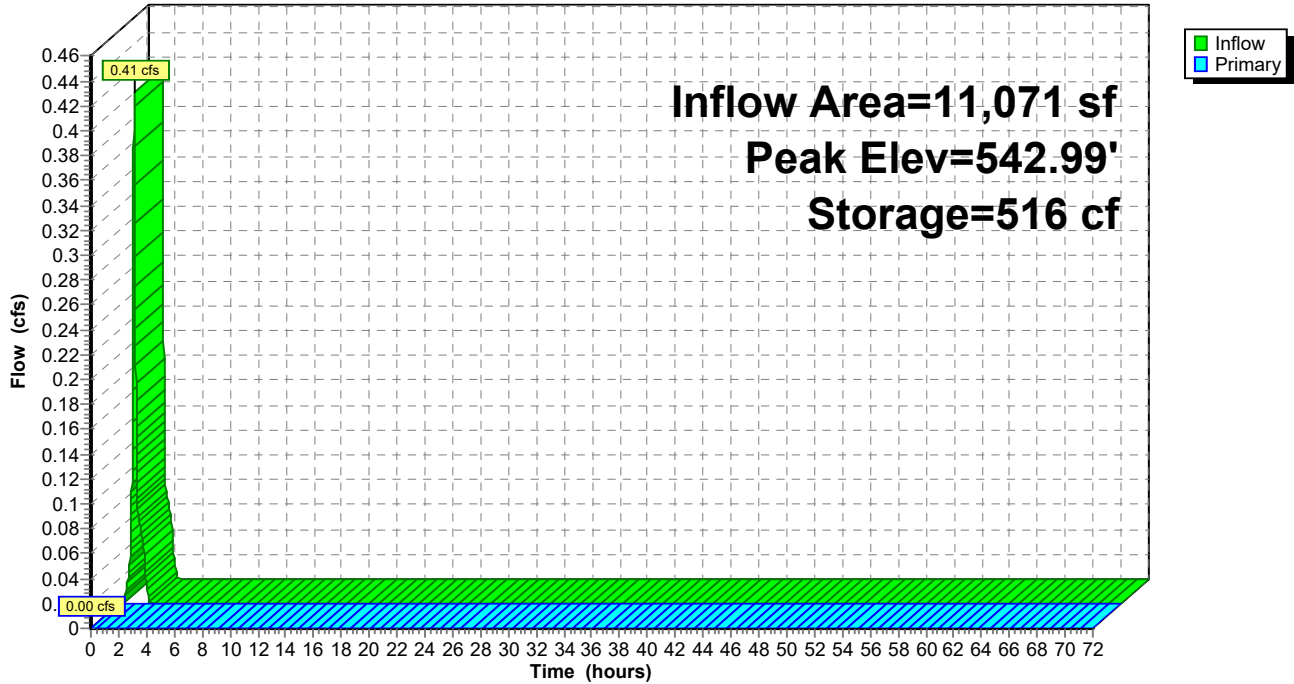
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.63' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.74 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-10: Pervious Pavers 10

Hydrograph



**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 0.74" for WQV event  
 Inflow = 0.35 cfs @ 1.08 hrs, Volume= 406 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.62' @ 2.07 hrs Surf.Area= 2,592 sf Storage= 406 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	543.23'	1,970 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,925 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.23	2,592	0	0
545.13	2,592	4,925	4,925

Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.90'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

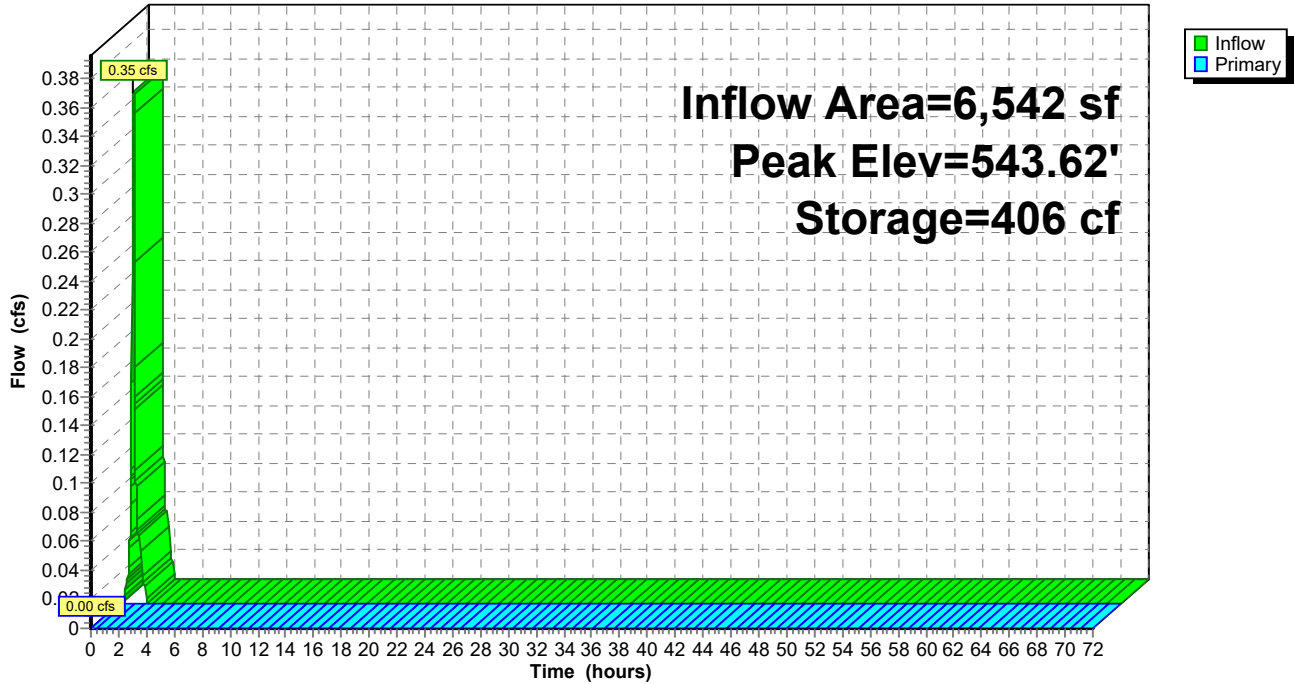
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=543.23' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.84 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-11: Pervious Pavers 11

Hydrograph



**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 0.69" for WQV event  
 Inflow = 0.33 cfs @ 1.10 hrs, Volume= 401 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.49' @ 2.22 hrs Surf.Area= 2,430 sf Storage= 401 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	542.08'	2,041 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,103 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.08	2,430	0	0
544.18	2,430	5,103	5,103

Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/ Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.75'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

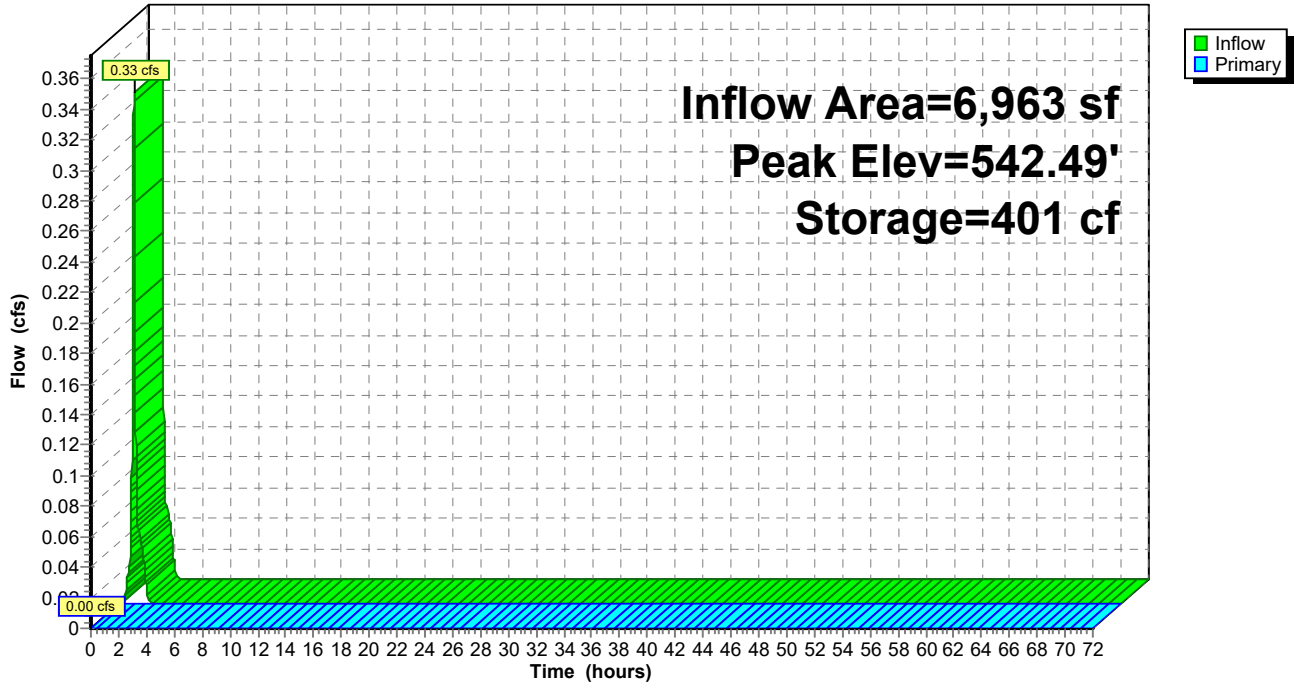
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.08' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.87 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-7: Pervious Pavers 7

Hydrograph





**Summary for Pond PV-8: Pervious Pavers 8**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 0.49" for WQV event  
 Inflow = 0.25 cfs @ 1.09 hrs, Volume= 265 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.53' @ 2.12 hrs Surf.Area= 3,564 sf Storage= 265 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	543.34'	1,768 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,419 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.34	3,564	0	0
544.58	3,564	4,419	4,419

Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.01'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

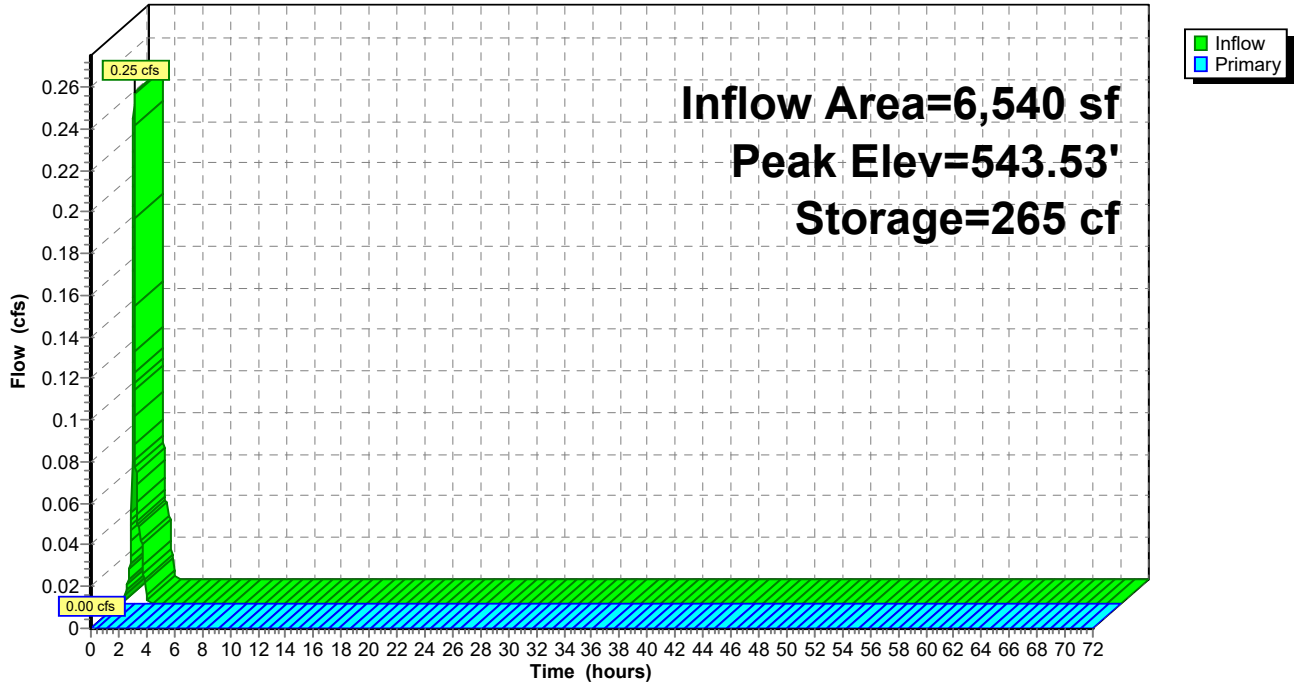
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=543.34' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 1.27 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-8: Pervious Pavers 8

Hydrograph



**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 0.60" for WQV event  
 Inflow = 0.36 cfs @ 1.09 hrs, Volume= 408 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.12' @ 2.12 hrs Surf.Area= 3,564 sf Storage= 408 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	542.83'	2,495 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,237 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.83	3,564	0	0
544.58	3,564	6,237	6,237

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

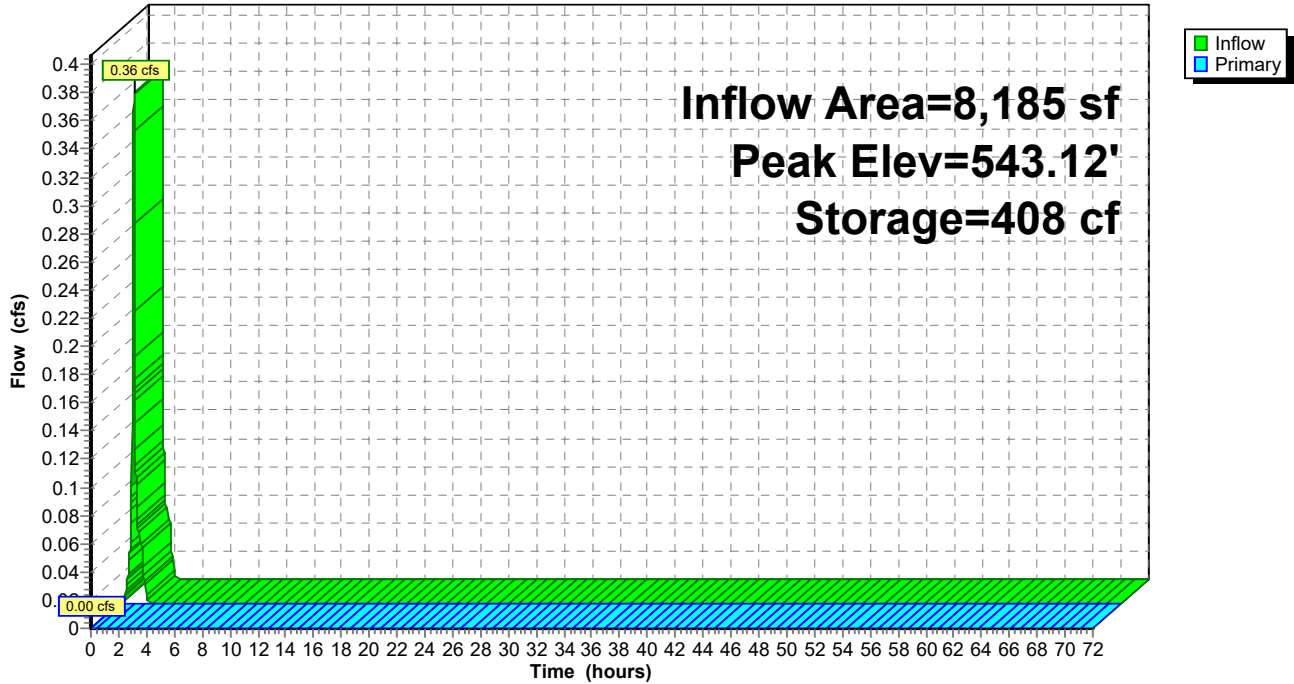
**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.83' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.85 potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

### Pond PV-9: Pervious Pavers 9

Hydrograph



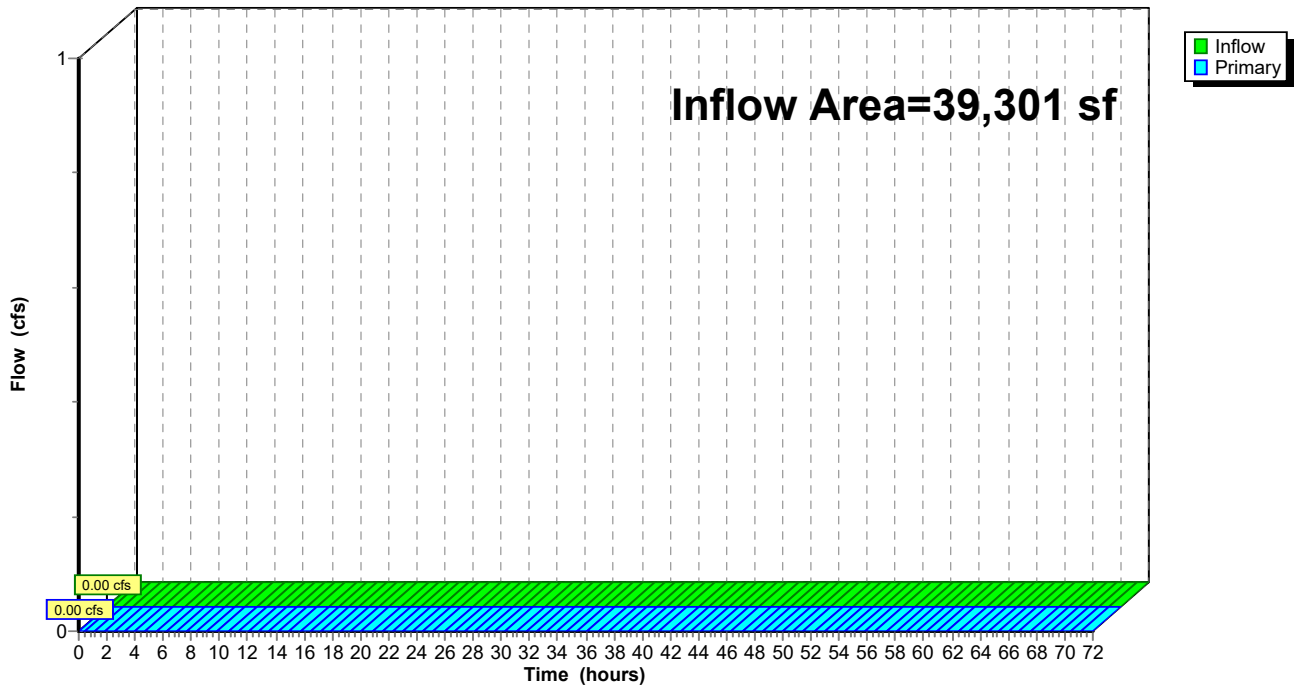
### Summary for Link P-1C: Proposed Pavers 7-11

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 0.00" for WQV event  
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1C: Proposed Pavers 7-11

Hydrograph



**Summary for Subcatchment EX-2(I): Existing Impervious to POI-2**

- [47] Hint: Peak is 416% of capacity of segment #3
- [47] Hint: Peak is 372% of capacity of segment #4
- [47] Hint: Peak is 137% of capacity of segment #5
- [47] Hint: Peak is 244% of capacity of segment #6
- [47] Hint: Peak is 220% of capacity of segment #7

Runoff = 25.91 cfs @ 1.11 hrs, Volume= 33,959 cf, Depth= 1.03"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	156,852	98	Impervious
*	237,038	98	MVS
	393,890	98	Weighted Average
	393,890	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0370	1.85		<b>Sheet Flow, 1bi-2bi</b> Smooth surfaces n= 0.011 P2= 3.54"
1.4	218	0.0171	2.65		<b>Shallow Concentrated Flow, 2bi-A</b> Paved Kv= 20.3 fps
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b>

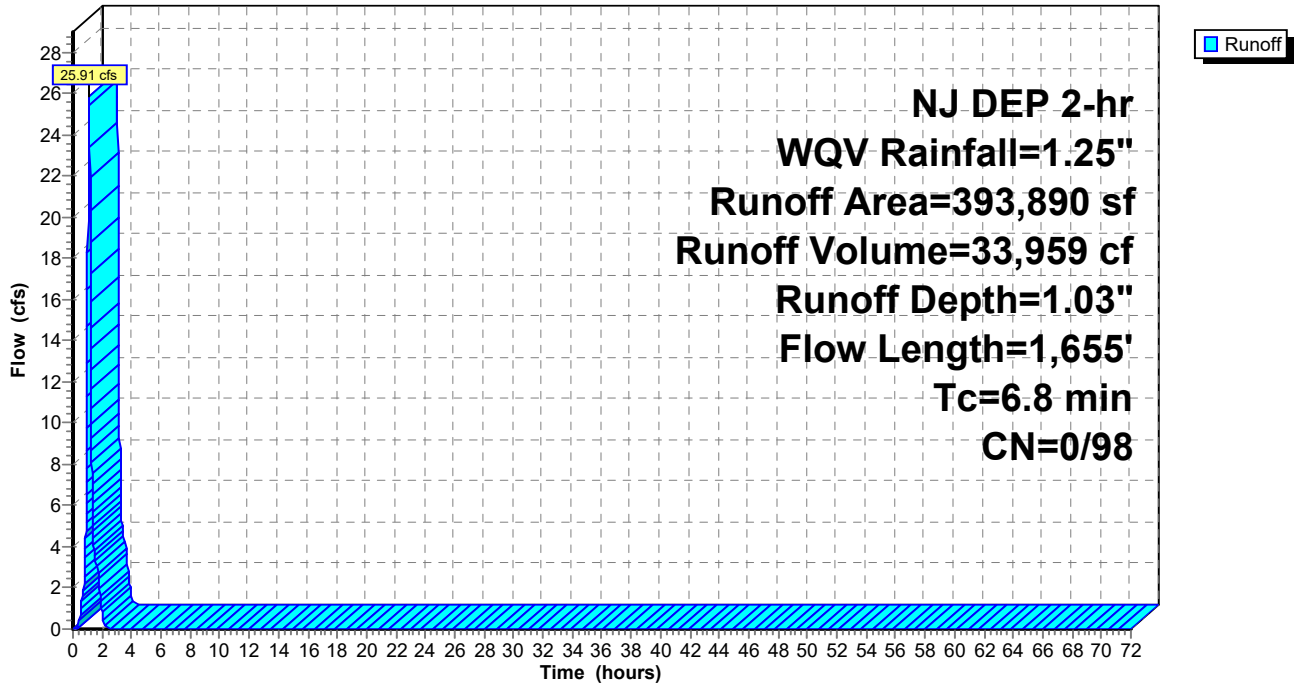
Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60'

n= 0.011

6.8 1,655 Total

Subcatchment EX-2(I): Existing Impervious to POI-2

Hydrograph



**Summary for Subcatchment EX-2(P): Existing Pervious to POI-2**

Runoff = 0.35 cfs @ 1.23 hrs, Volume= 642 cf, Depth= 0.10"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

Area (sf)	CN	Description
19,218	77	Woods, Good, HSG D
21,619	80	>75% Grass cover, Good, HSG D
2,618	70	Woods, Good, HSG C
32,503	74	>75% Grass cover, Good, HSG C
60	61	>75% Grass cover, Good, HSG B
76,018	76	Weighted Average
76,018	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, 1bp-2bp</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, 2bp-3bp</b> Paved Kv= 20.3 fps
0.2	48	0.0050	3.72	4.57	<b>Pipe Channel, 3bp-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b>



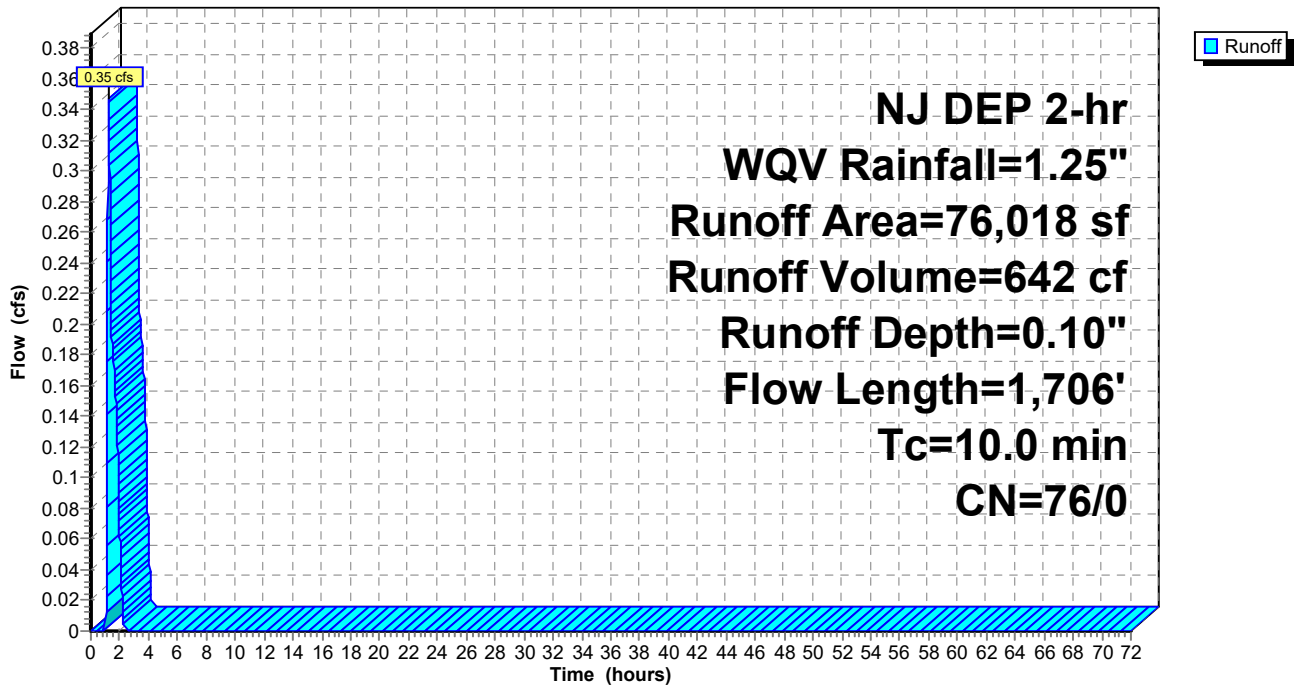
Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60'

n= 0.011

10.0 1,706 Total

Subcatchment EX-2(P): Existing Pervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(I): Proposed Impervious to POI-2**

- [47] Hint: Peak is 455% of capacity of segment #3
- [47] Hint: Peak is 334% of capacity of segment #4
- [47] Hint: Peak is 334% of capacity of segment #5
- [47] Hint: Peak is 334% of capacity of segment #6
- [47] Hint: Peak is 123% of capacity of segment #7
- [47] Hint: Peak is 123% of capacity of segment #8
- [47] Hint: Peak is 123% of capacity of segment #9
- [47] Hint: Peak is 123% of capacity of segment #10
- [47] Hint: Peak is 123% of capacity of segment #11

Runoff = 23.25 cfs @ 1.10 hrs, Volume= 29,672 cf, Depth= 1.03"  
 Routed to Link P-2 : Proposed to POI-2

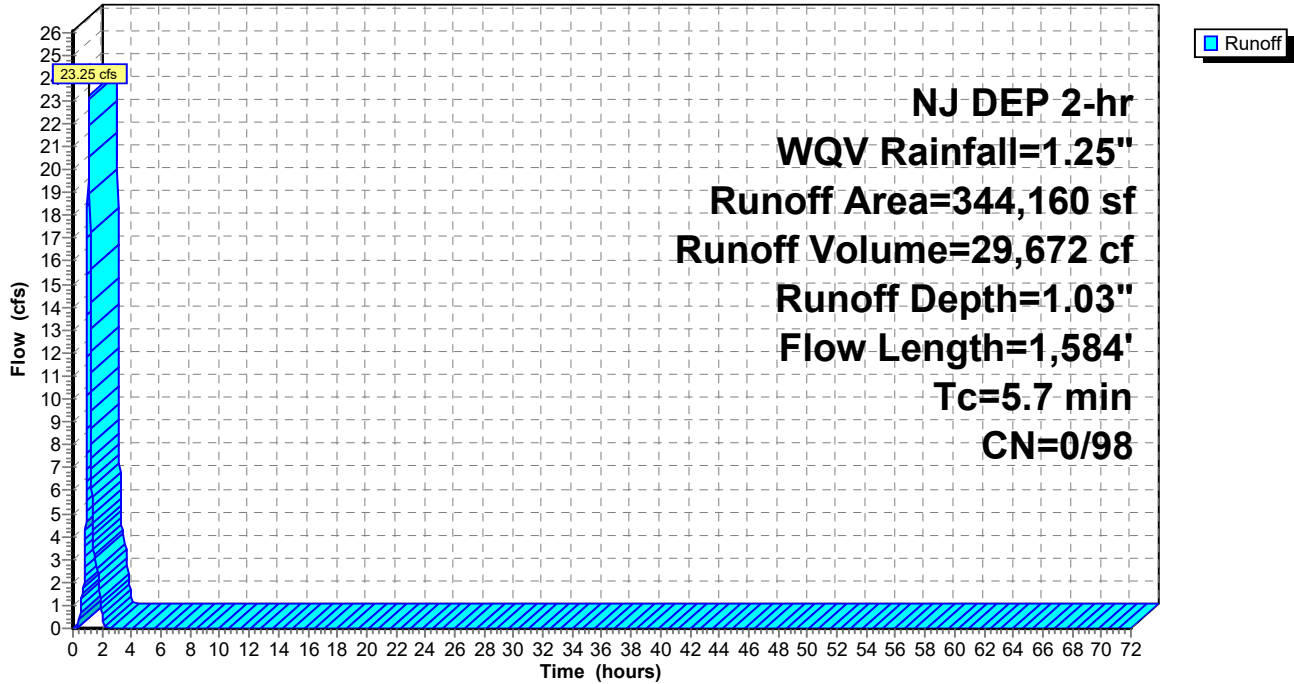
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	172,891	98	Impervious
*	171,269	98	Motor Vehicle Surface
	344,160	98	Weighted Average
	344,160	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0285	1.67		<b>Sheet Flow, A2i-B2i</b> Smooth surfaces n= 0.011 P2= 3.54"
0.3	67	0.0285	3.43		<b>Shallow Concentrated Flow, B2i-C2i</b> Paved Kv= 20.3 fps
0.4	148	0.0206	6.51	5.11	<b>Pipe Channel, C2i-A</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
5.7	1,584	Total			

### Subcatchment P-2(I): Proposed Impervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(P): Proposed Pervious to POI-2**

Runoff = 0.36 cfs @ 1.23 hrs, Volume= 655 cf, Depth= 0.10"

Routed to Link P-2 : Proposed to POI-2

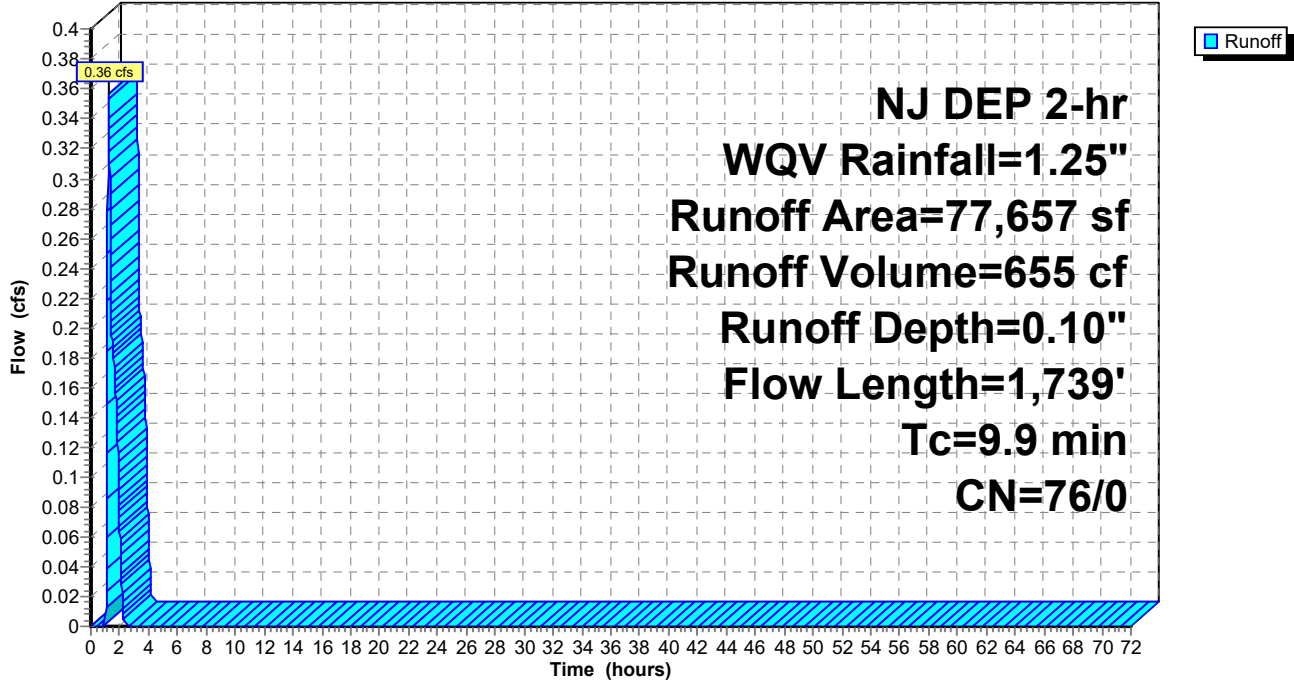
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
NJ DEP 2-hr WQV Rainfall=1.25"

Area (sf)	CN	Description
15,074	77	Woods, Good, HSG D
25,472	80	>75% Grass cover, Good, HSG D
2,384	70	Woods, Good, HSG C
34,542	74	>75% Grass cover, Good, HSG C
185	61	>75% Grass cover, Good, HSG B
77,657	76	Weighted Average
77,657	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, A2p-B2p</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, B2p-C2p</b> Paved Kv= 20.3 fps
0.3	71	0.0050	3.72	4.57	<b>Pipe Channel, C2p-D2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	57	0.0093	5.08	6.23	<b>Pipe Channel, D2p-E2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	21	0.0093	5.08	6.23	<b>Pipe Channel, E2p-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
9.9	1,739	Total			

### Subcatchment P-2(P): Proposed Pervious to POI-2

Hydrograph



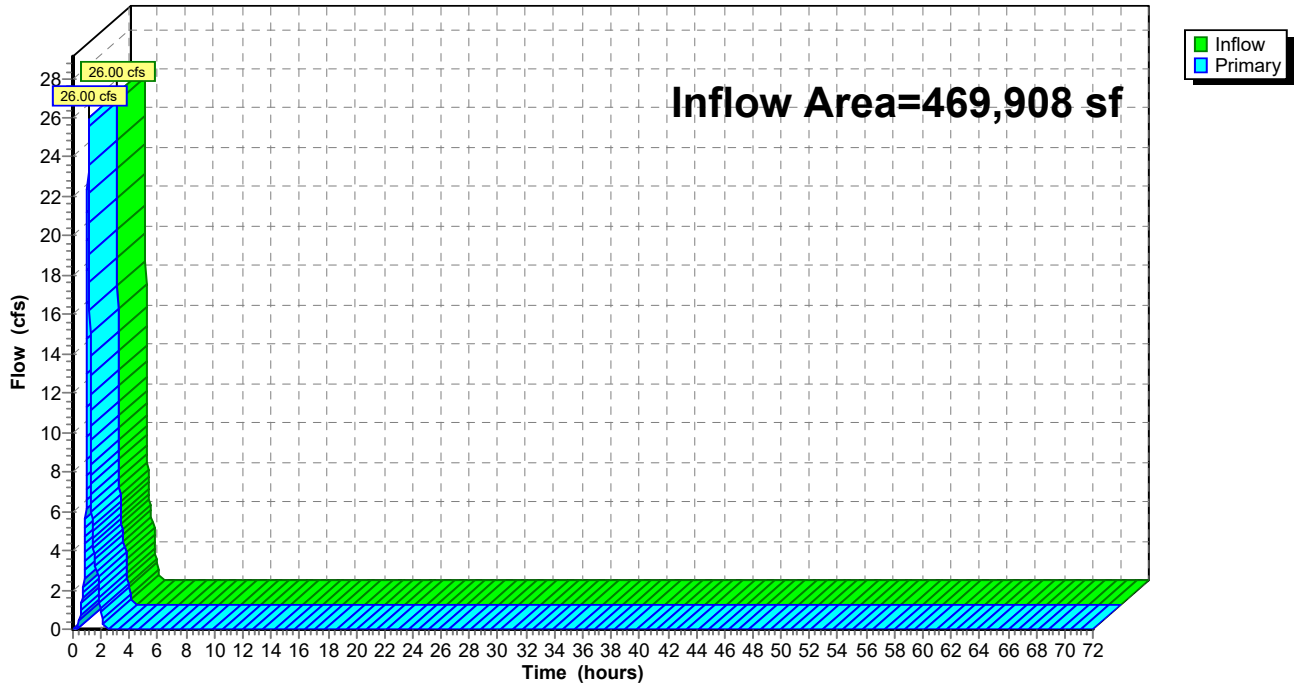
### Summary for Link EX-2: Existing Drainage to POI-2

Inflow Area = 469,908 sf, 83.82% Impervious, Inflow Depth = 0.88" for WQV event  
Inflow = 26.00 cfs @ 1.11 hrs, Volume= 34,601 cf  
Primary = 26.00 cfs @ 1.11 hrs, Volume= 34,601 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-2: Existing Drainage to POI-2

Hydrograph





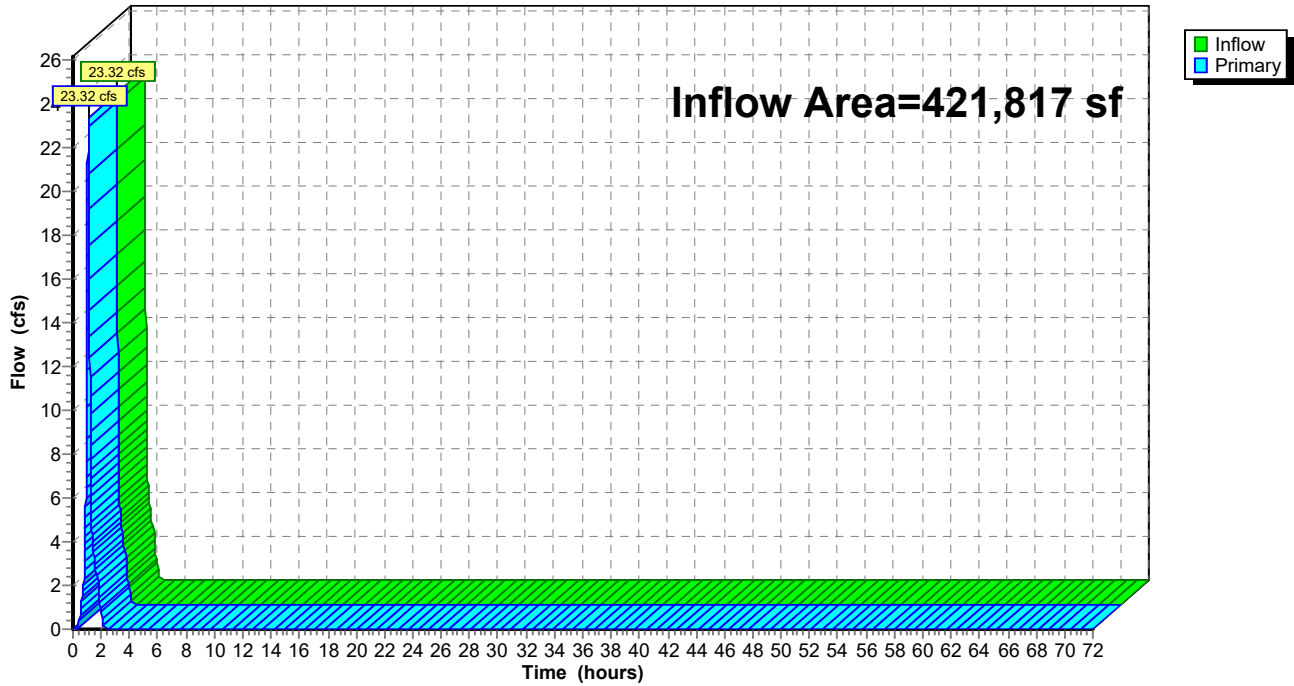
### Summary for Link P-2: Proposed to POI-2

Inflow Area = 421,817 sf, 81.59% Impervious, Inflow Depth = 0.86" for WQV event  
Inflow = 23.32 cfs @ 1.10 hrs, Volume= 30,327 cf  
Primary = 23.32 cfs @ 1.10 hrs, Volume= 30,327 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-2: Proposed to POI-2

Hydrograph



**2023-05-17-POI-1 - Total**

NOAA 24-hr D 2-Year Rainfall=3.54"

Prepared by Stonefield Engineering & Design

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**Summary for Subcatchment EX-1(I): Existing Impervious to POI-1**

[47] Hint: Peak is 155% of capacity of segment #2

[47] Hint: Peak is 148% of capacity of segment #3

[47] Hint: Peak is 132% of capacity of segment #4

Runoff = 5.06 cfs @ 12.11 hrs, Volume= 16,824 cf, Depth= 3.31"  
 Routed to Link EX-1 : Existing to POI-1

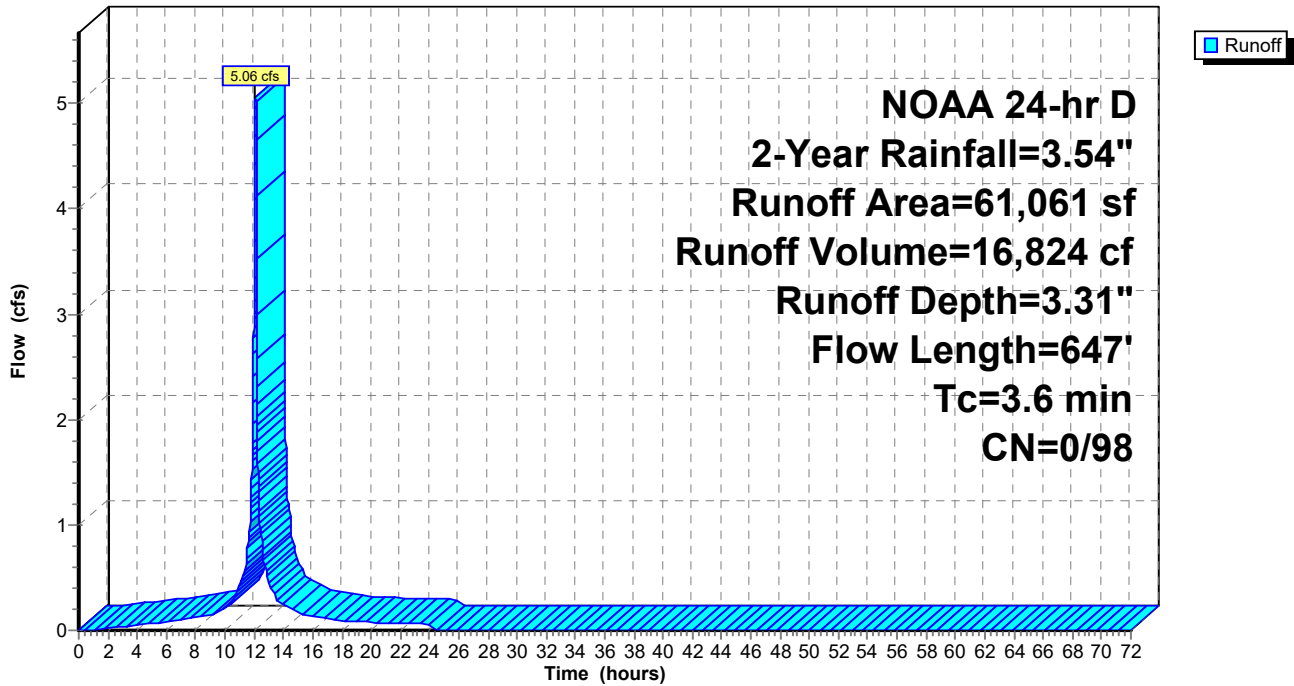
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	40,269	98	Impervious
*	20,792	98	MVS
	61,061	98	Weighted Average
	61,061	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	66	0.0139	1.15		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.6	139	0.0084	4.16	3.27	<b>Pipe Channel, 2ai-3ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
1.1	181	0.0028	2.79	3.42	<b>Pipe Channel, 3ai-4ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.7	130	0.0035	3.11	3.82	<b>Pipe Channel, 4ai-5ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	75	0.0075	9.90	62.40	<b>Trap/Vee/Rect Channel Flow, 5ai-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
3.6	647	Total			

Subcatchment EX-1(I): Existing Impervious to POI-1

Hydrograph



**Summary for Subcatchment EX-1(P): Existing Pervious to POI-1**

Runoff = 1.29 cfs @ 12.27 hrs, Volume= 5,971 cf, Depth= 1.53"

Routed to Link EX-1 : Existing to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

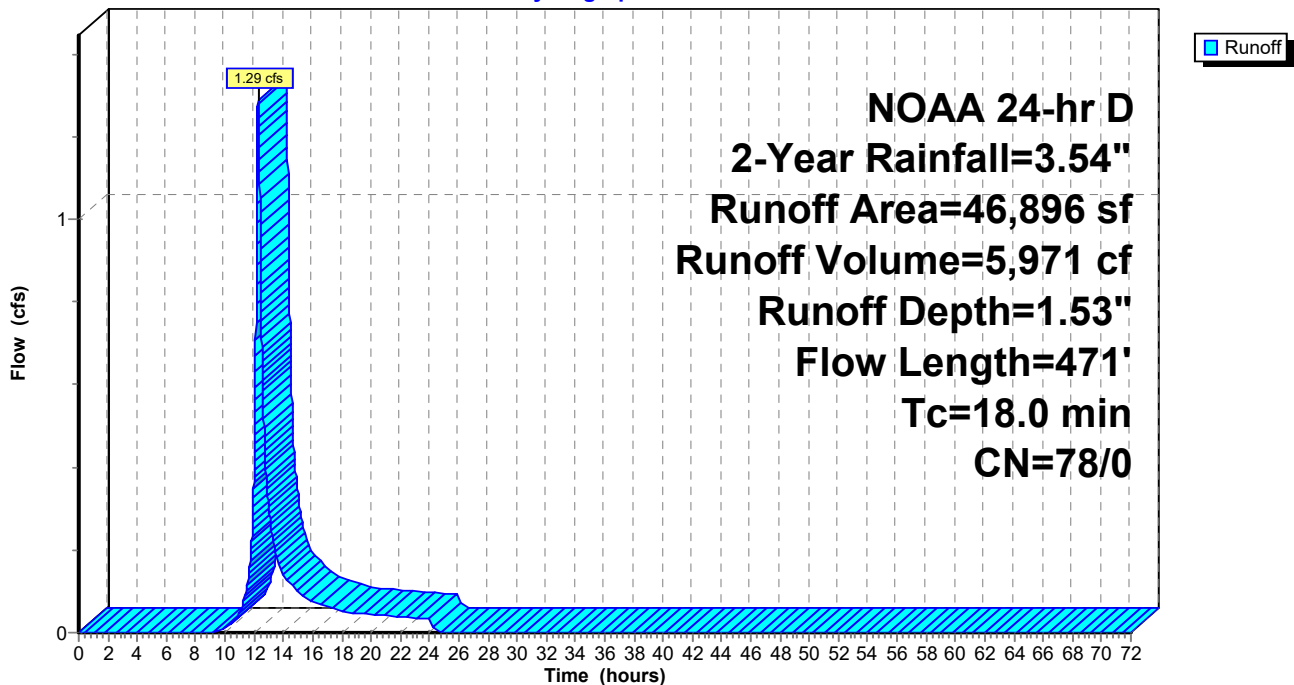
Area (sf)	CN	Description
34,127	77	Woods, Good, HSG D
12,769	80	>75% Grass cover, Good, HSG D
46,896	78	Weighted Average
46,896	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	92	0.0250	0.09		<b>Sheet Flow, 1ap-2ap</b> Woods: Light underbrush n= 0.400 P2= 3.54"
0.4	323	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 2ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
18.0	471	Total			

**Subcatchment EX-1(P): Existing Pervious to POI-1**

Hydrograph



**Summary for Subcatchment P-1A-I: Proposed Impervious to P-1**

[47] Hint: Peak is 227% of capacity of segment #2

Runoff = 1.06 cfs @ 12.10 hrs, Volume= 3,462 cf, Depth= 3.31"  
 Routed to Link P-1 : Proposed to POI-1

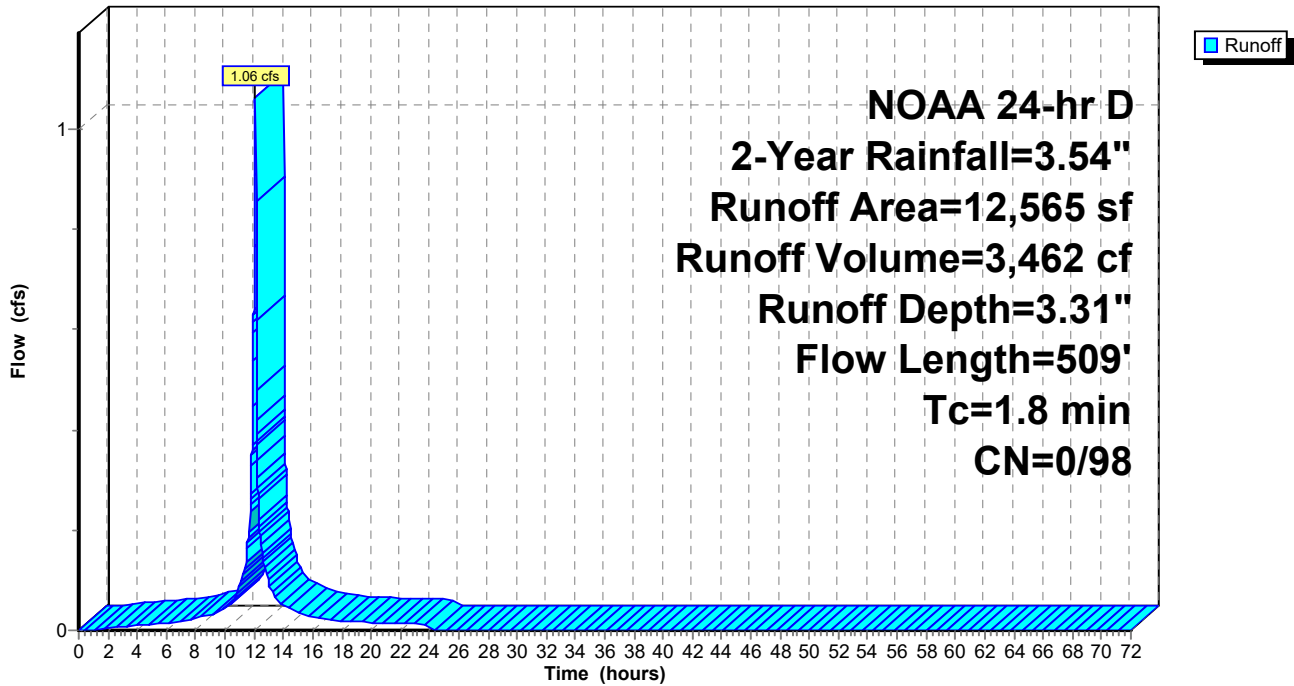
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

Area (sf)	CN	Description
* 12,565	98	Impervious (pool area)
12,565	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	49	0.0100	0.95		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.1	16	0.0050	2.39	0.47	<b>Pipe Channel, 3ai-4ai</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.011
0.2	44	0.0050	3.47	2.73	<b>Pipe Channel, 4ai-5ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.2	51	0.0050	4.03	4.95	<b>Pipe Channel, 5ai - X</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
1.8	509	Total			

Subcatchment P-1A-I: Proposed Impervious to P-1

Hydrograph



**Summary for Subcatchment P-1A-P: Proposed Pervious to P-1**

Runoff = 1.78 cfs @ 12.28 hrs, Volume= 8,347 cf, Depth= 1.53"

Routed to Link P-1 : Proposed to POI-1

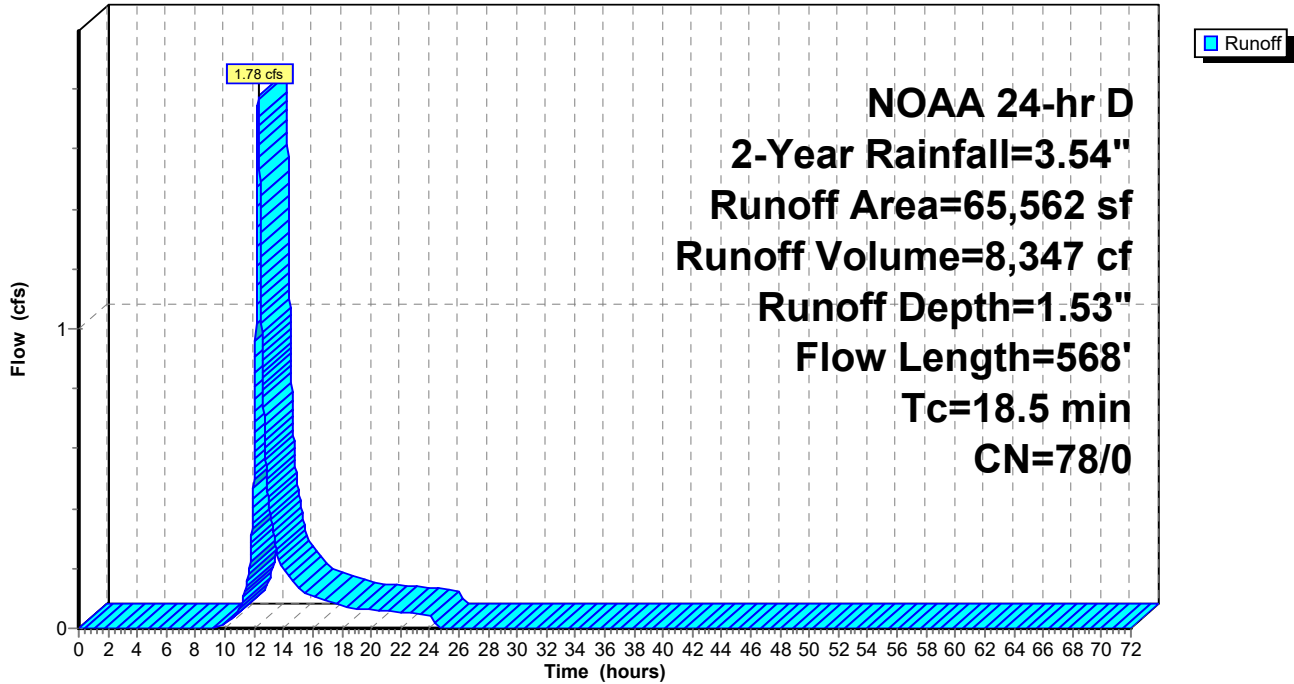
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

Area (sf)	CN	Description
37,078	77	Woods, Good, HSG D
28,484	80	>75% Grass cover, Good, HSG D
65,562	78	Weighted Average
65,562	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	100	0.0060	0.11		<b>Sheet Flow, 1ap-2ap</b> Grass: Short n= 0.150 P2= 3.54"
0.6	20	0.0060	0.54		<b>Shallow Concentrated Flow, 2ap-3ap</b> Short Grass Pasture Kv= 7.0 fps
2.4	69	0.0095	0.49		<b>Shallow Concentrated Flow, 3ap-4ap</b> Woodland Kv= 5.0 fps
0.0	30	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 4ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
18.5	568	Total			

**Subcatchment P-1A-P: Proposed Pervious to P-1**

Hydrograph





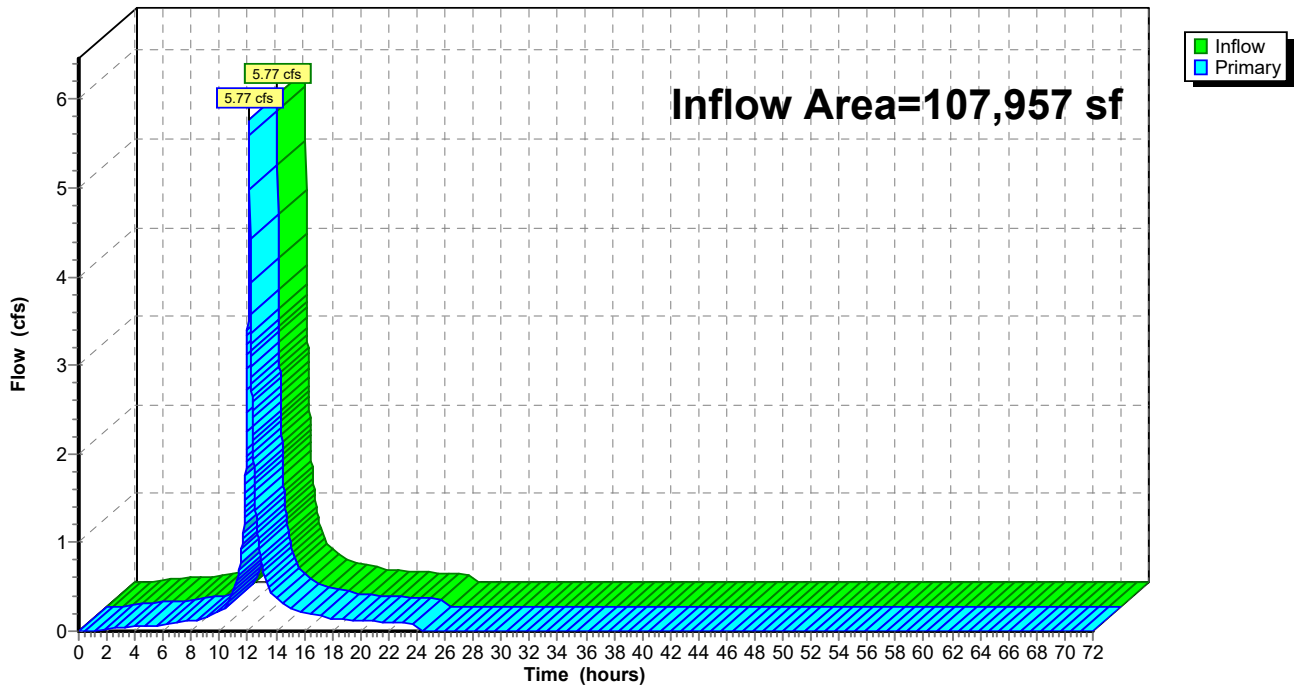
### Summary for Link EX-1: Existing to POI-1

Inflow Area = 107,957 sf, 56.56% Impervious, Inflow Depth = 2.53" for 2-Year event  
Inflow = 5.77 cfs @ 12.11 hrs, Volume= 22,795 cf  
Primary = 5.77 cfs @ 12.11 hrs, Volume= 22,795 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-1: Existing to POI-1

Hydrograph



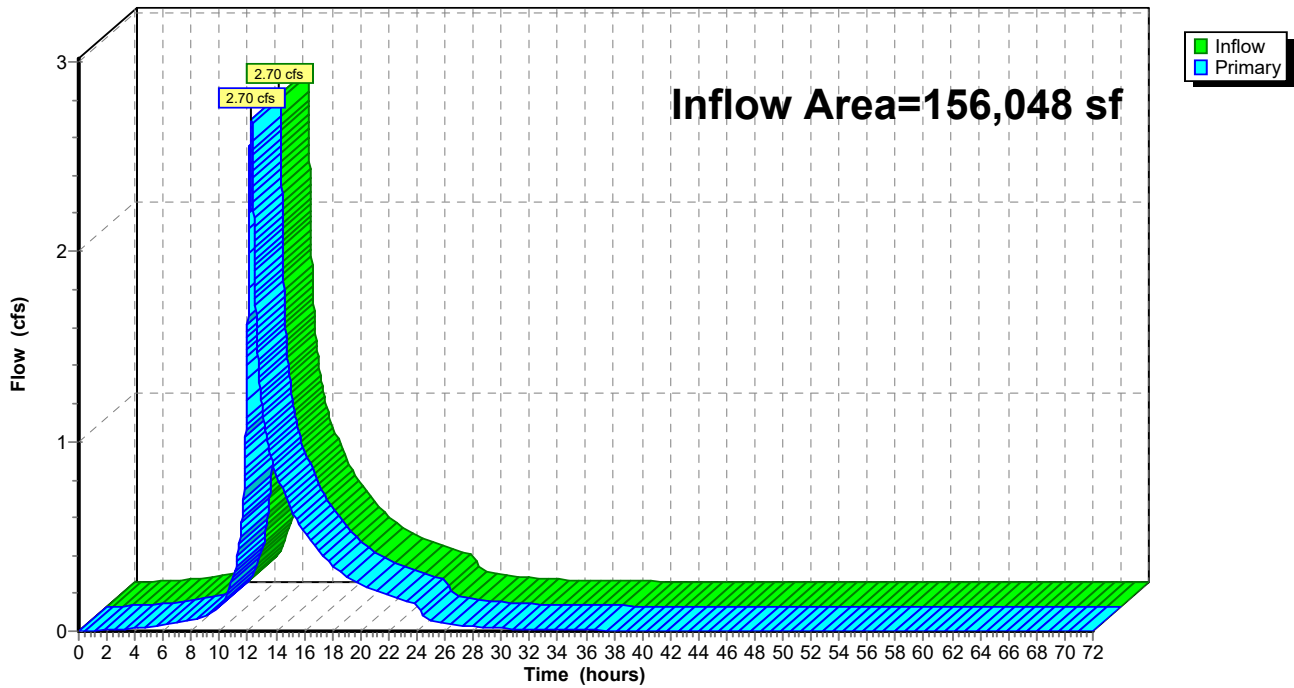
### Summary for Link P-1: Proposed to POI-1

Inflow Area = 156,048 sf, 30.93% Impervious, Inflow Depth = 2.19" for 2-Year event  
Inflow = 2.70 cfs @ 12.28 hrs, Volume= 28,418 cf  
Primary = 2.70 cfs @ 12.28 hrs, Volume= 28,418 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1: Proposed to POI-1

Hydrograph



### Summary for Link P-1B: Pavers 1-6

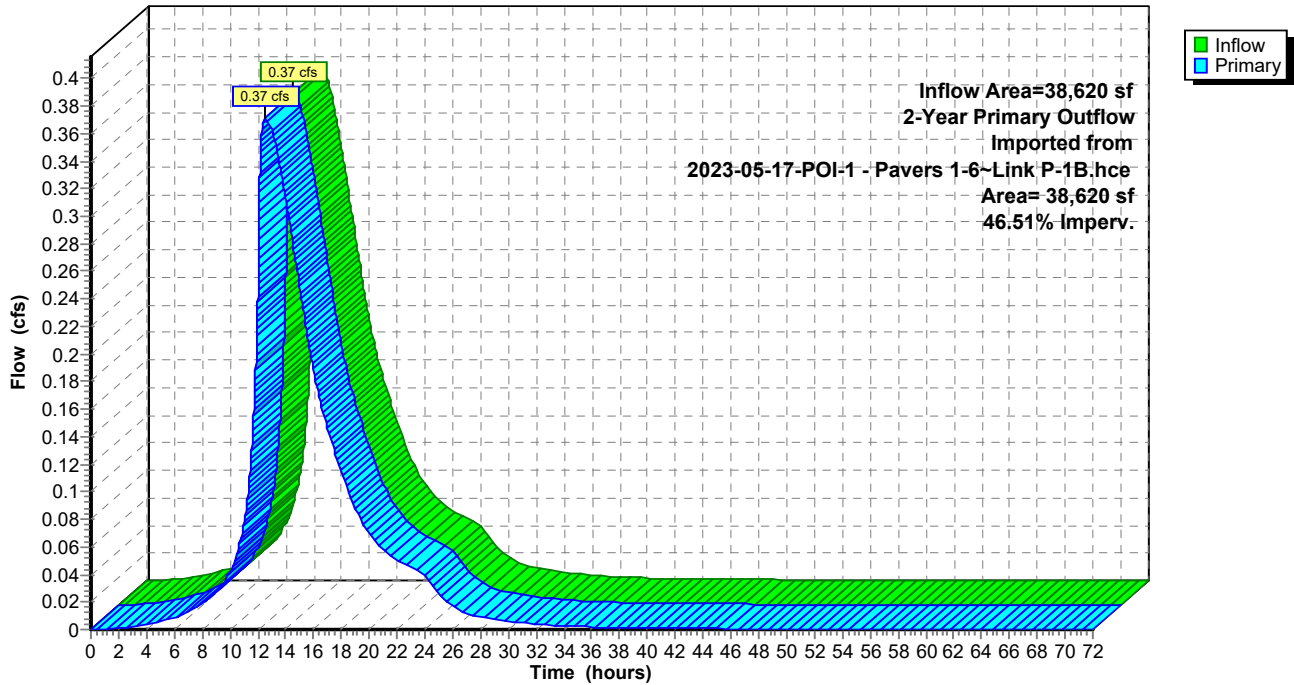
Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 2.56" for 2-Year event  
 Inflow = 0.37 cfs @ 12.57 hrs, Volume= 8,246 cf  
 Primary = 0.37 cfs @ 12.57 hrs, Volume= 8,246 cf, Atten= 0%, Lag= 0.0 min  
 Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

2-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 1-6~Link P-1B.hce

### Link P-1B: Pavers 1-6

Hydrograph



### Summary for Link P-1C: Pavers 7-11

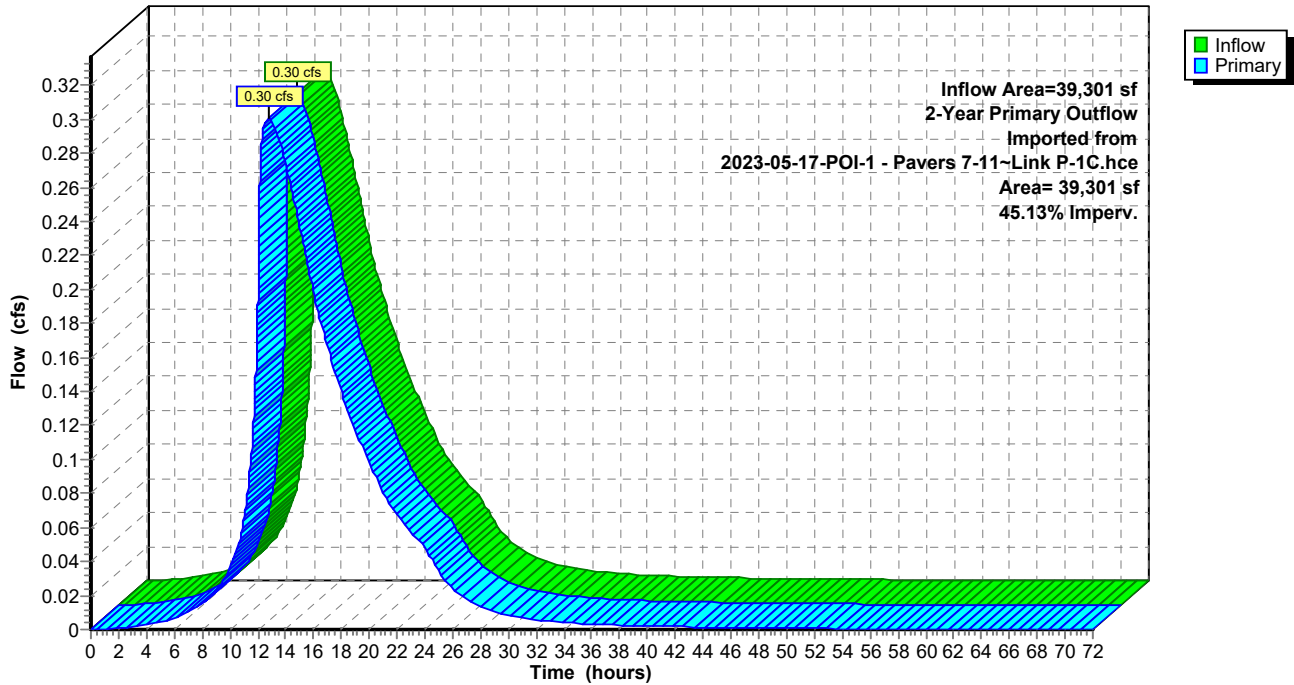
Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 2.55" for 2-Year event  
 Inflow = 0.30 cfs @ 12.78 hrs, Volume= 8,363 cf  
 Primary = 0.30 cfs @ 12.78 hrs, Volume= 8,363 cf, Atten= 0%, Lag= 0.0 min  
 Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

2-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 7-11~Link P-1C.hce

### Link P-1C: Pavers 7-11

Hydrograph



**Summary for Subcatchment EX-1(I): Existing Impervious to POI-1**

[47] Hint: Peak is 231% of capacity of segment #2

[47] Hint: Peak is 220% of capacity of segment #3

[47] Hint: Peak is 197% of capacity of segment #4

Runoff = 7.53 cfs @ 12.11 hrs, Volume= 25,456 cf, Depth= 5.00"  
 Routed to Link EX-1 : Existing to POI-1

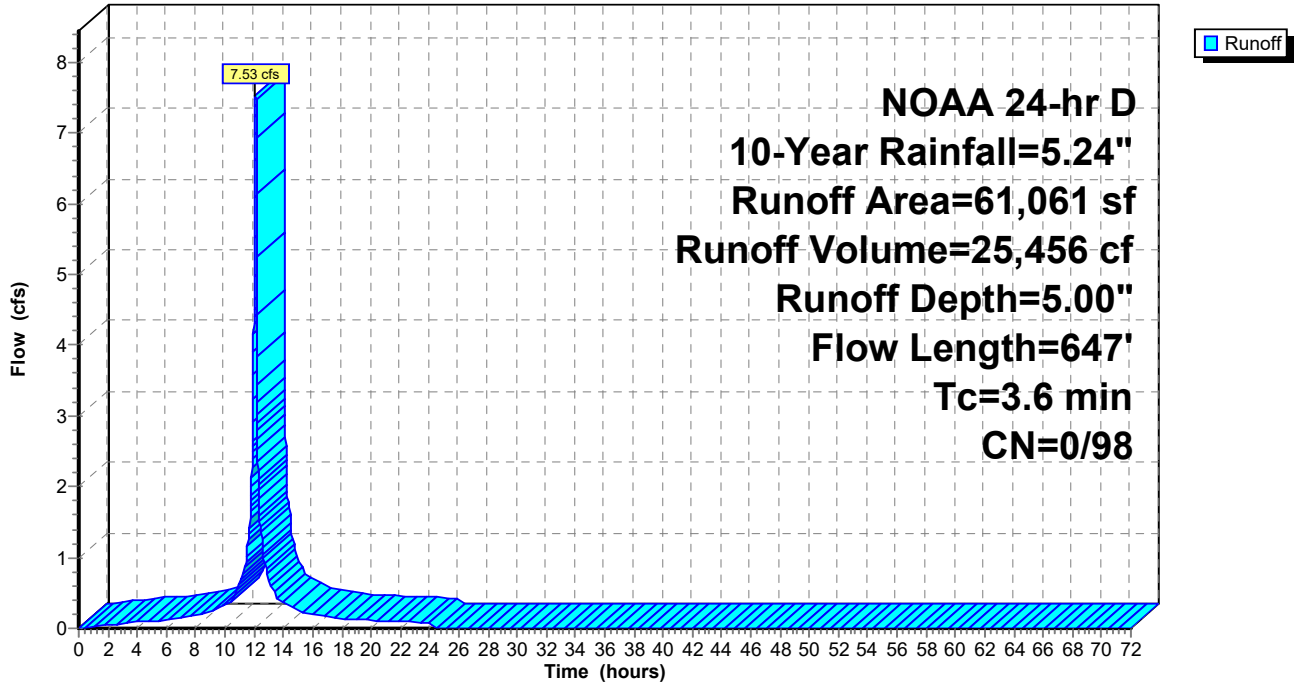
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	40,269	98	Impervious
*	20,792	98	MVS
	61,061	98	Weighted Average
	61,061	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	66	0.0139	1.15		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.6	139	0.0084	4.16	3.27	<b>Pipe Channel, 2ai-3ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
1.1	181	0.0028	2.79	3.42	<b>Pipe Channel, 3ai-4ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.7	130	0.0035	3.11	3.82	<b>Pipe Channel, 4ai-5ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	75	0.0075	9.90	62.40	<b>Trap/Vee/Rect Channel Flow, 5ai-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
3.6	647	Total			

Subcatchment EX-1(I): Existing Impervious to POI-1

Hydrograph



**Summary for Subcatchment EX-1(P): Existing Pervious to POI-1**

Runoff = 2.50 cfs @ 12.26 hrs, Volume= 11,398 cf, Depth= 2.92"  
 Routed to Link EX-1 : Existing to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

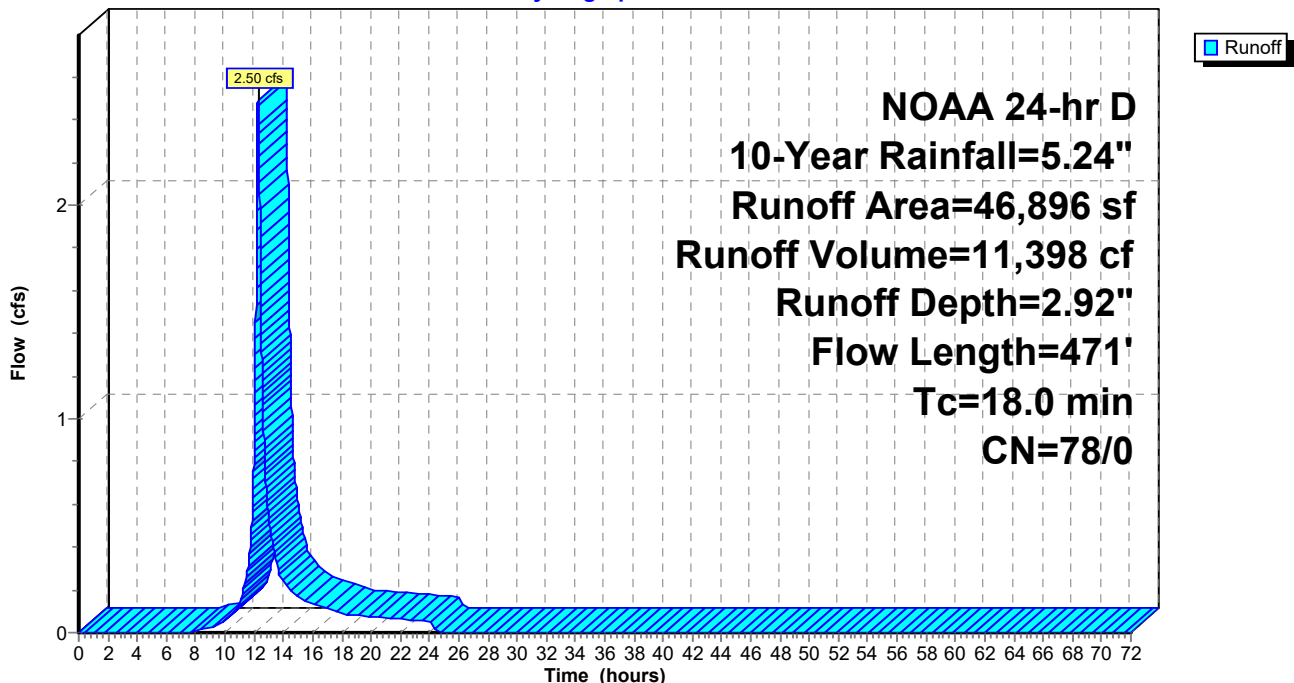
Area (sf)	CN	Description
34,127	77	Woods, Good, HSG D
12,769	80	>75% Grass cover, Good, HSG D
46,896	78	Weighted Average
46,896	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	92	0.0250	0.09		<b>Sheet Flow, 1ap-2ap</b> Woods: Light underbrush n= 0.400 P2= 3.54"
0.4	323	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 2ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
18.0	471	Total			

**Subcatchment EX-1(P): Existing Pervious to POI-1**

Hydrograph



**Summary for Subcatchment P-1A-I: Proposed Impervious to P-1**

[47] Hint: Peak is 338% of capacity of segment #2

Runoff = 1.58 cfs @ 12.10 hrs, Volume= 5,238 cf, Depth= 5.00"  
 Routed to Link P-1 : Proposed to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

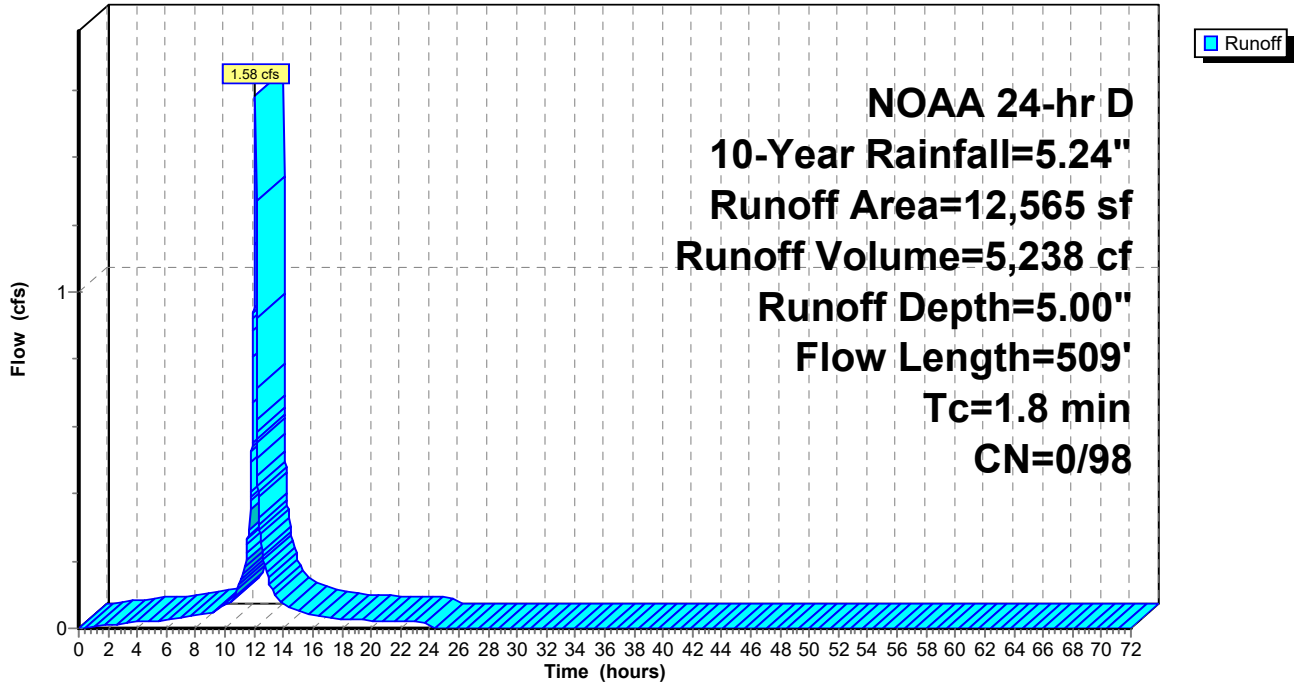
Area (sf)	CN	Description
* 12,565	98	Impervious (pool area)
12,565	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	49	0.0100	0.95		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.1	16	0.0050	2.39	0.47	<b>Pipe Channel, 3ai-4ai</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.011
0.2	44	0.0050	3.47	2.73	<b>Pipe Channel, 4ai-5ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.2	51	0.0050	4.03	4.95	<b>Pipe Channel, 5ai - X</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
1.8	509	Total			



### Subcatchment P-1A-I: Proposed Impervious to P-1

Hydrograph



**2023-05-17-POI-1 - Total**

NOAA 24-hr D 10-Year Rainfall=5.24"

Prepared by Stonefield Engineering & Design

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**Summary for Subcatchment P-1A-P: Proposed Pervious to P-1**

Runoff = 3.45 cfs @ 12.27 hrs, Volume= 15,935 cf, Depth= 2.92"

Routed to Link P-1 : Proposed to POI-1

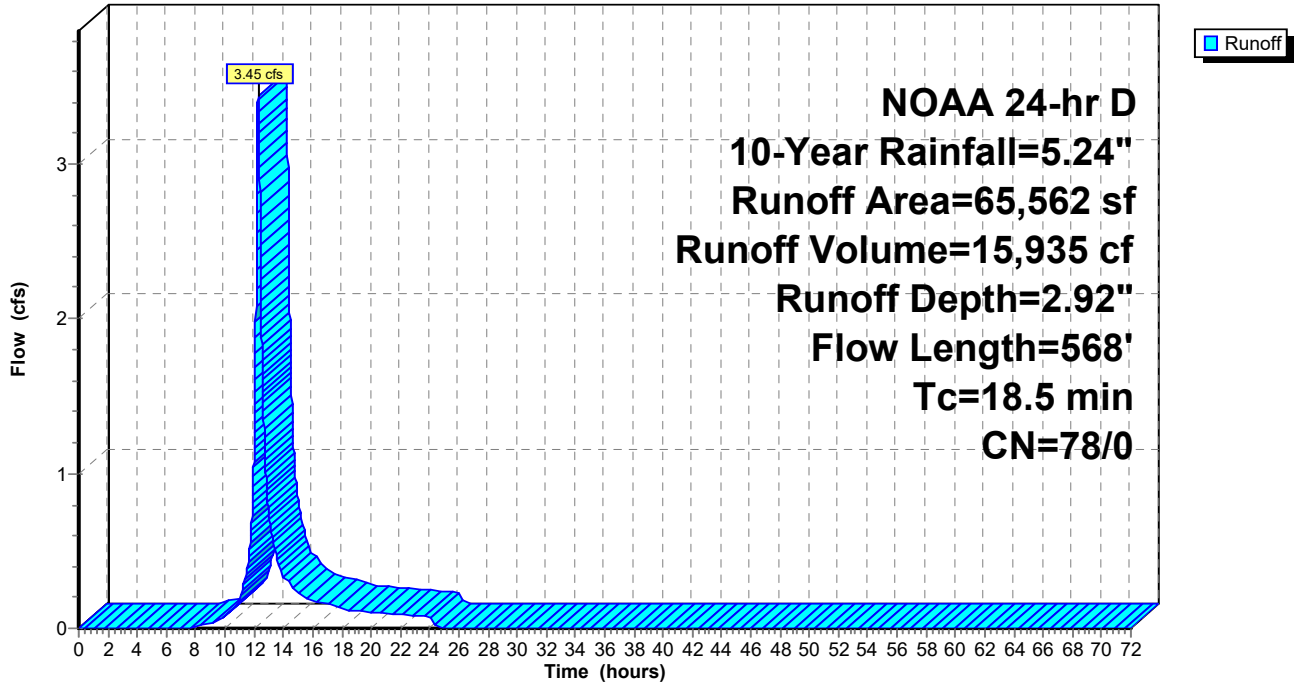
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

Area (sf)	CN	Description
37,078	77	Woods, Good, HSG D
28,484	80	>75% Grass cover, Good, HSG D
65,562	78	Weighted Average
65,562	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	100	0.0060	0.11		<b>Sheet Flow, 1ap-2ap</b> Grass: Short n= 0.150 P2= 3.54"
0.6	20	0.0060	0.54		<b>Shallow Concentrated Flow, 2ap-3ap</b> Short Grass Pasture Kv= 7.0 fps
2.4	69	0.0095	0.49		<b>Shallow Concentrated Flow, 3ap-4ap</b> Woodland Kv= 5.0 fps
0.0	30	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 4ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
18.5	568	Total			

### Subcatchment P-1A-P: Proposed Pervious to P-1

Hydrograph



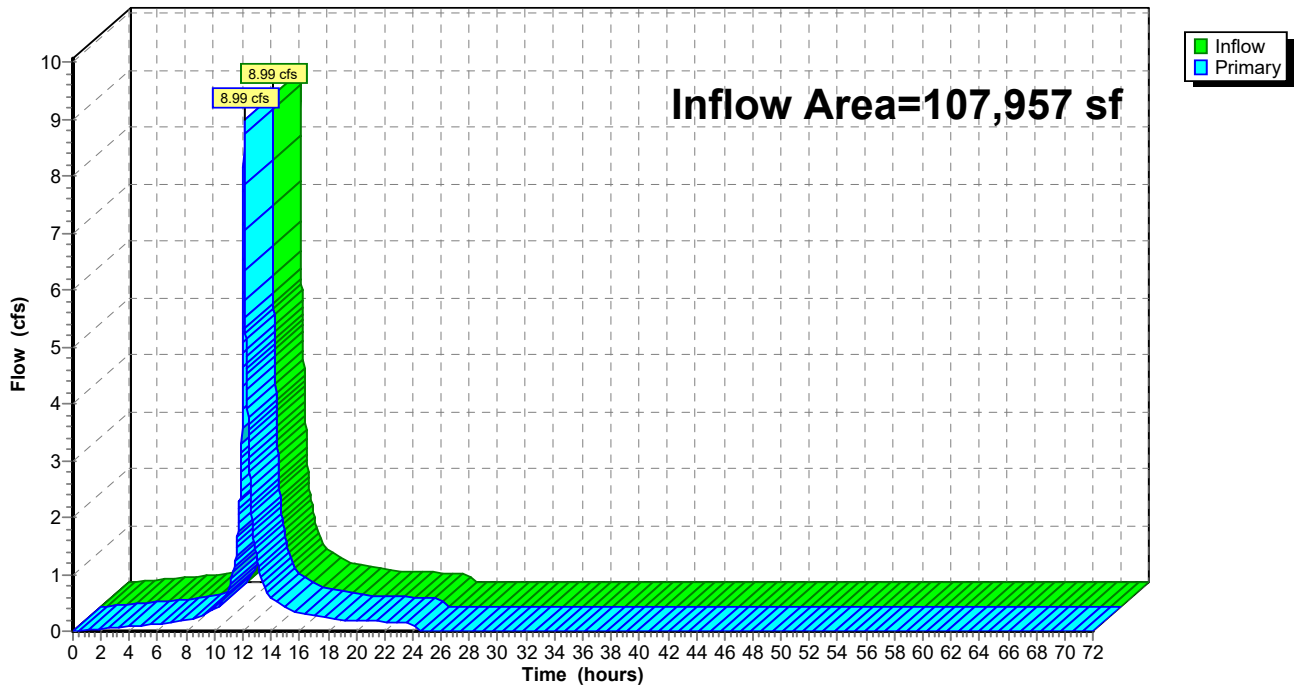
### Summary for Link EX-1: Existing to POI-1

Inflow Area = 107,957 sf, 56.56% Impervious, Inflow Depth = 4.10" for 10-Year event  
Inflow = 8.99 cfs @ 12.11 hrs, Volume= 36,854 cf  
Primary = 8.99 cfs @ 12.11 hrs, Volume= 36,854 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-1: Existing to POI-1

Hydrograph



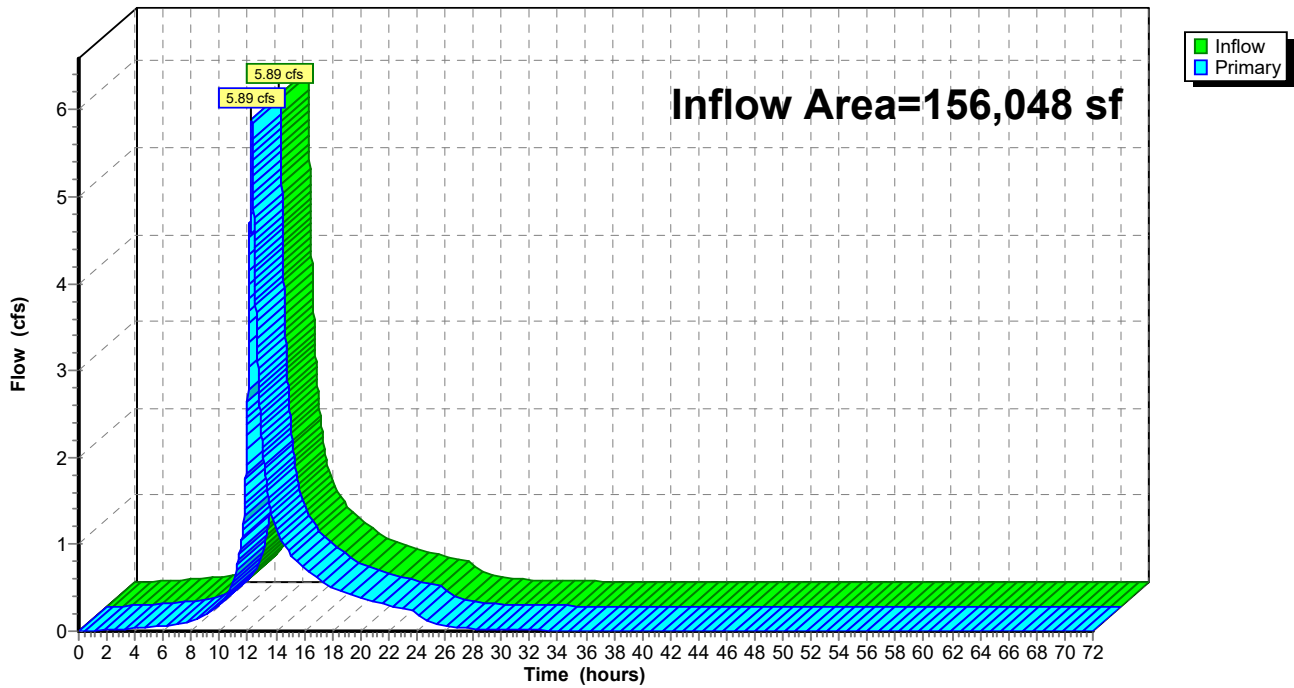
### Summary for Link P-1: Proposed to POI-1

Inflow Area = 156,048 sf, 30.93% Impervious, Inflow Depth = 3.70" for 10-Year event  
Inflow = 5.89 cfs @ 12.28 hrs, Volume= 48,134 cf  
Primary = 5.89 cfs @ 12.28 hrs, Volume= 48,134 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1: Proposed to POI-1

Hydrograph



### Summary for Link P-1B: Pavers 1-6

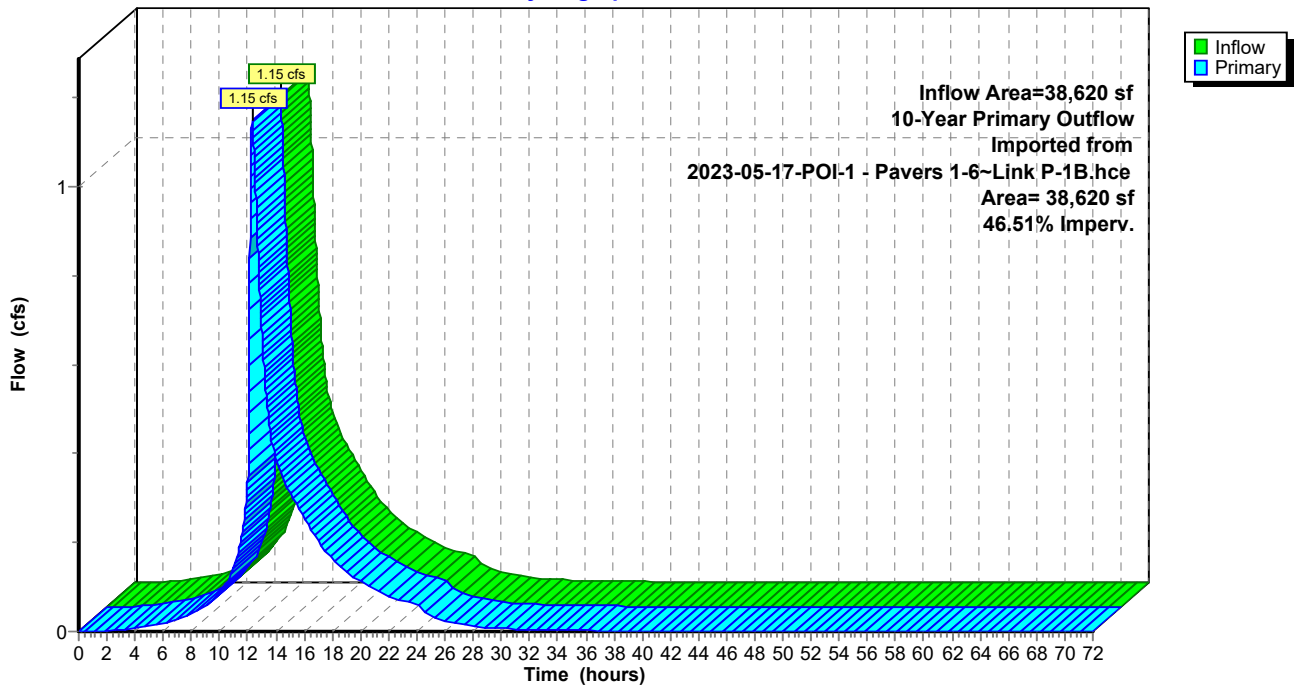
Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 4.16" for 10-Year event  
 Inflow = 1.15 cfs @ 12.31 hrs, Volume= 13,377 cf  
 Primary = 1.15 cfs @ 12.31 hrs, Volume= 13,377 cf, Atten= 0%, Lag= 0.0 min  
 Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

10-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 1-6~Link P-1B.hce

### Link P-1B: Pavers 1-6

Hydrograph



### Summary for Link P-1C: Pavers 7-11

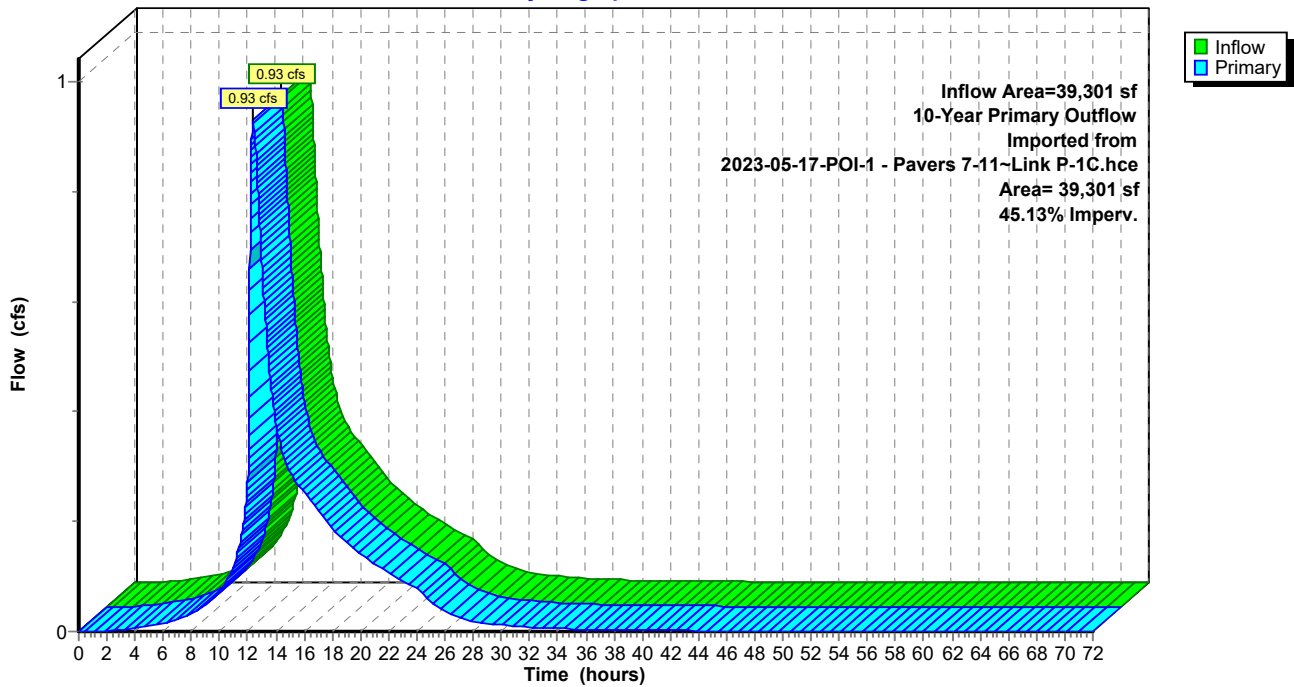
Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 4.15" for 10-Year event  
Inflow = 0.93 cfs @ 12.35 hrs, Volume= 13,584 cf  
Primary = 0.93 cfs @ 12.35 hrs, Volume= 13,584 cf, Atten= 0%, Lag= 0.0 min  
Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

10-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 7-11~Link P-1C.hce

### Link P-1C: Pavers 7-11

Hydrograph



**Summary for Subcatchment EX-1(I): Existing Impervious to POI-1**

[47] Hint: Peak is 369% of capacity of segment #2

[47] Hint: Peak is 352% of capacity of segment #3

[47] Hint: Peak is 315% of capacity of segment #4

Runoff = 12.04 cfs @ 12.11 hrs, Volume= 41,267 cf, Depth= 8.11"  
 Routed to Link EX-1 : Existing to POI-1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

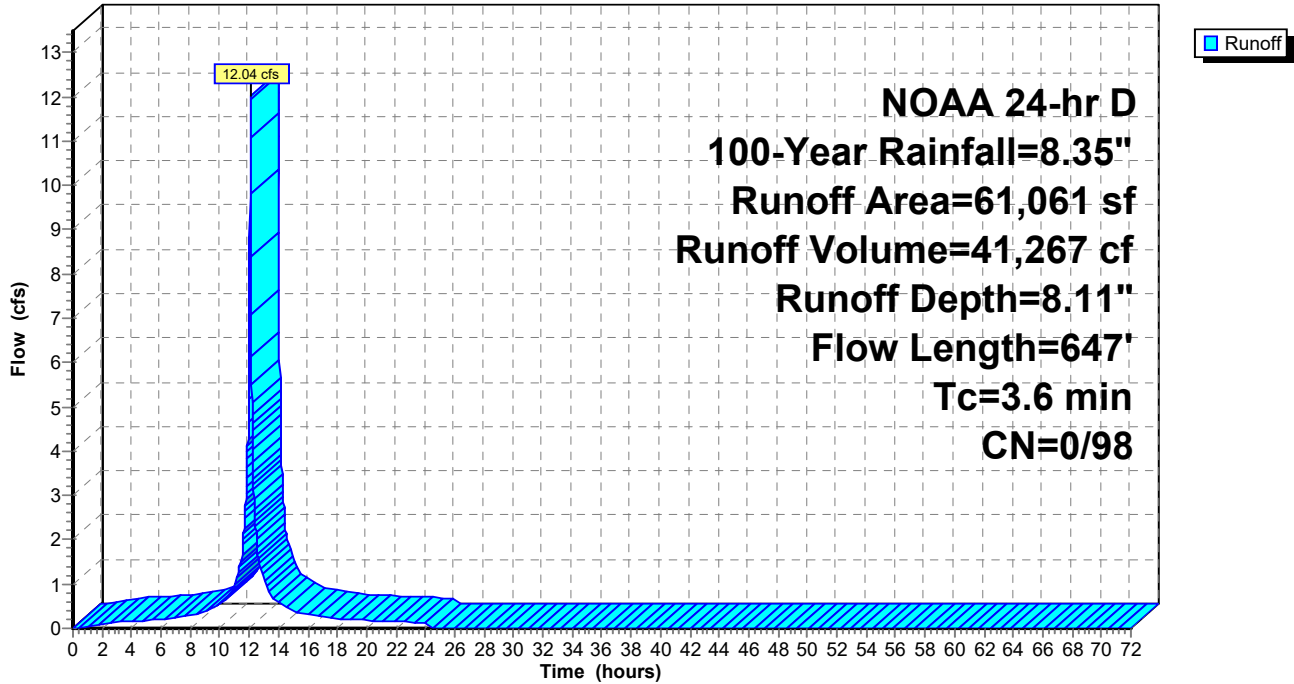
	Area (sf)	CN	Description
*	40,269	98	Impervious
*	20,792	98	MVS
	61,061	98	Weighted Average
	61,061	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	66	0.0139	1.15		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.6	139	0.0084	4.16	3.27	<b>Pipe Channel, 2ai-3ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
1.1	181	0.0028	2.79	3.42	<b>Pipe Channel, 3ai-4ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.7	130	0.0035	3.11	3.82	<b>Pipe Channel, 4ai-5ai</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	75	0.0075	9.90	62.40	<b>Trap/Vee/Rect Channel Flow, 5ai-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
3.6	647	Total			



**Subcatchment EX-1(I): Existing Impervious to POI-1**

Hydrograph



**Summary for Subcatchment EX-1(P): Existing Pervious to POI-1**

Runoff = 4.83 cfs @ 12.26 hrs, Volume= 22,336 cf, Depth= 5.72"

Routed to Link EX-1 : Existing to POI-1

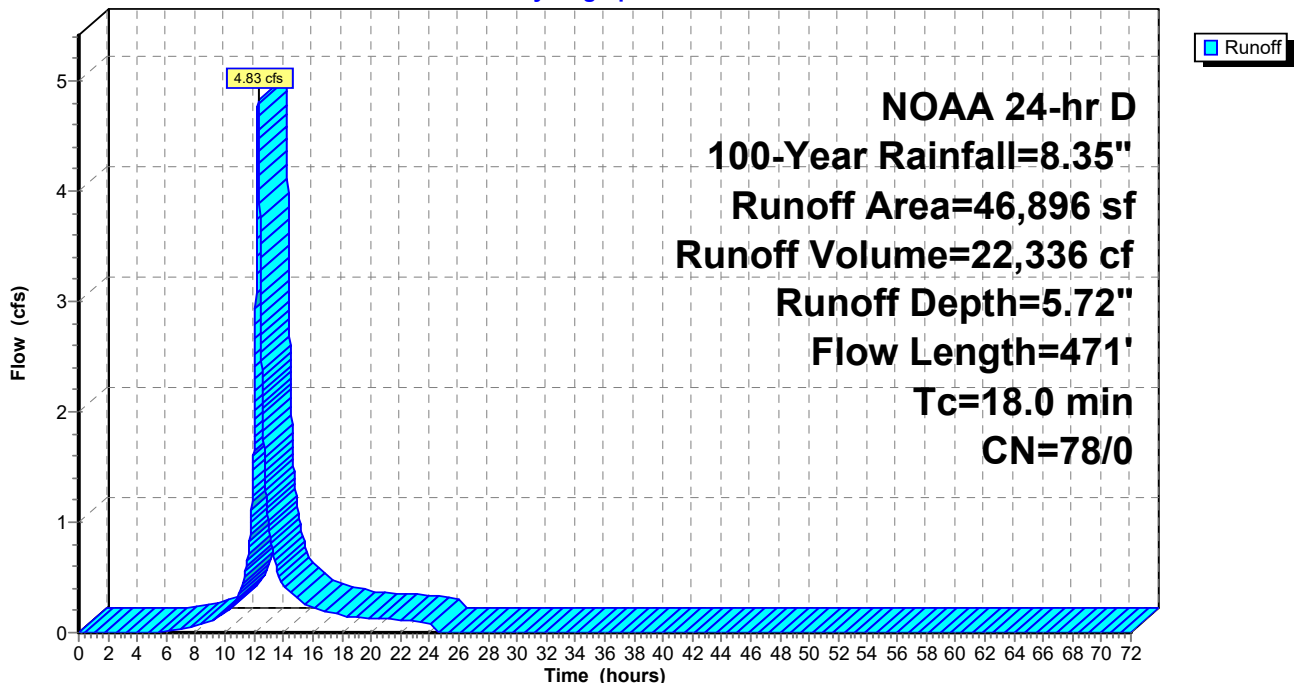
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
34,127	77	Woods, Good, HSG D
12,769	80	>75% Grass cover, Good, HSG D
46,896	78	Weighted Average
46,896	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.5	92	0.0250	0.09		<b>Sheet Flow, 1ap-2ap</b> Woods: Light underbrush n= 0.400 P2= 3.54"
0.4	323	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 2ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
0.1	56	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011 PVC, smooth interior
18.0	471	Total			

**Subcatchment EX-1(P): Existing Pervious to POI-1**

Hydrograph



**Summary for Subcatchment P-1A-I: Proposed Impervious to P-1**

[47] Hint: Peak is 539% of capacity of segment #2

Runoff = 2.53 cfs @ 12.10 hrs, Volume= 8,492 cf, Depth= 8.11"  
 Routed to Link P-1 : Proposed to POI-1

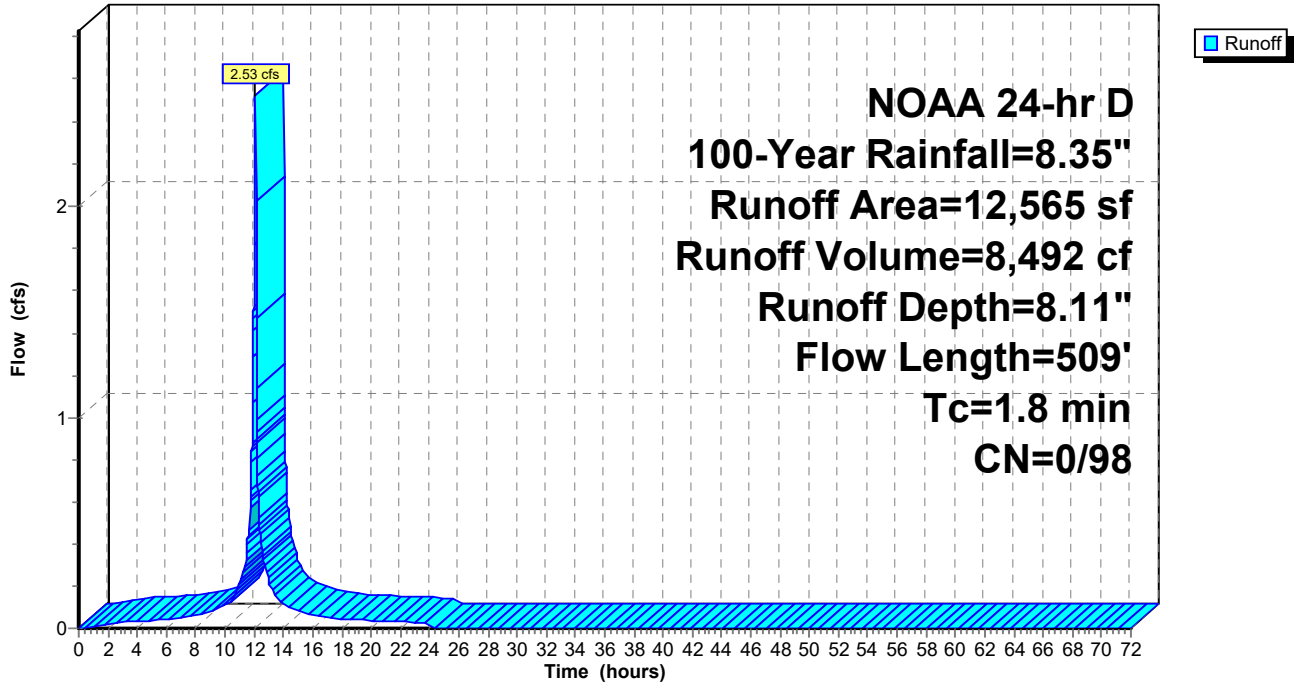
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
* 12,565	98	Impervious (pool area)
12,565	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	49	0.0100	0.95		<b>Sheet Flow, 1ai-2ai</b> Smooth surfaces n= 0.011 P2= 3.54"
0.1	16	0.0050	2.39	0.47	<b>Pipe Channel, 3ai-4ai</b> 6.0" Round Area= 0.2 sf Perim= 1.6' r= 0.13' n= 0.011
0.2	44	0.0050	3.47	2.73	<b>Pipe Channel, 4ai-5ai</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.012
0.2	51	0.0050	4.03	4.95	<b>Pipe Channel, 5ai - X</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.012
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
1.8	509	Total			

**Subcatchment P-1A-I: Proposed Impervious to P-1**

Hydrograph



**Summary for Subcatchment P-1A-P: Proposed Pervious to P-1**

Runoff = 6.67 cfs @ 12.27 hrs, Volume= 31,226 cf, Depth= 5.72"

Routed to Link P-1 : Proposed to POI-1

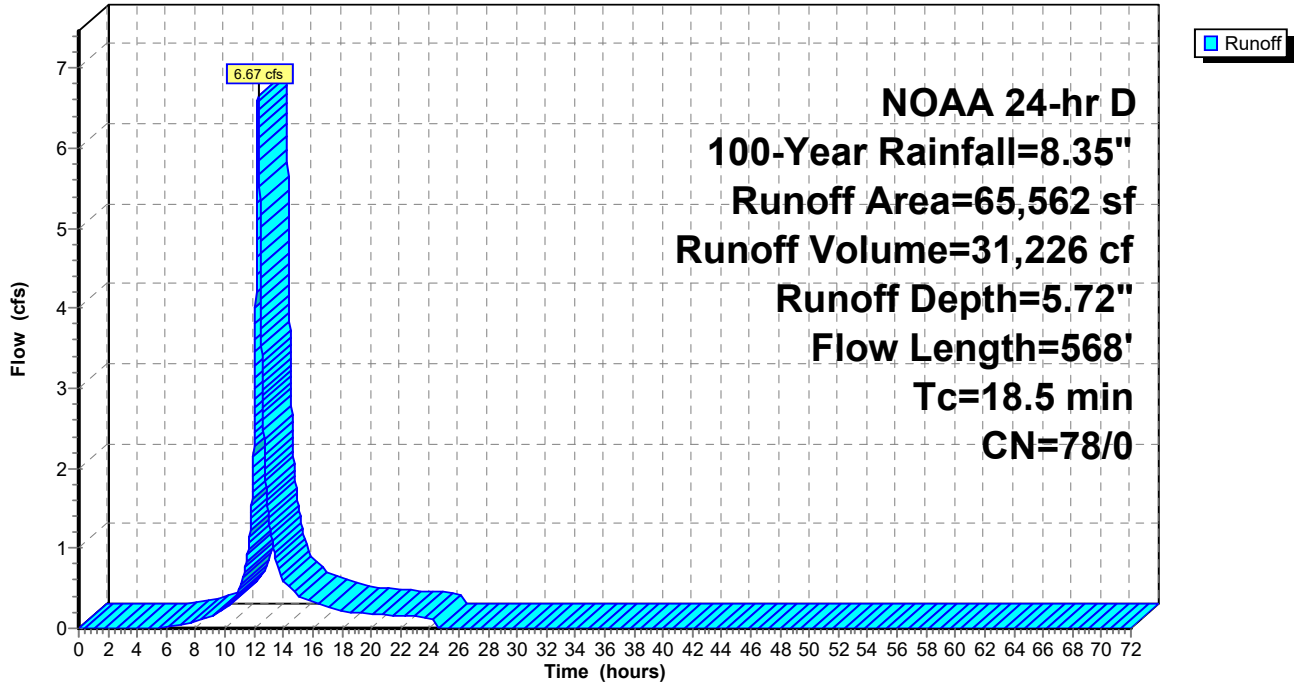
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
37,078	77	Woods, Good, HSG D
28,484	80	>75% Grass cover, Good, HSG D
65,562	78	Weighted Average
65,562	78	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	100	0.0060	0.11		<b>Sheet Flow, 1ap-2ap</b> Grass: Short n= 0.150 P2= 3.54"
0.6	20	0.0060	0.54		<b>Shallow Concentrated Flow, 2ap-3ap</b> Short Grass Pasture Kv= 7.0 fps
2.4	69	0.0095	0.49		<b>Shallow Concentrated Flow, 3ap-4ap</b> Woodland Kv= 5.0 fps
0.0	30	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, 4ap-X</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
0.4	349	0.0150	14.01	88.24	<b>Trap/Vee/Rect Channel Flow, X-Y</b> Bot.W=6.00' D=1.00' Z= 0.3 '/' Top.W=6.60' n= 0.011
18.5	568	Total			

### Subcatchment P-1A-P: Proposed Pervious to P-1

Hydrograph



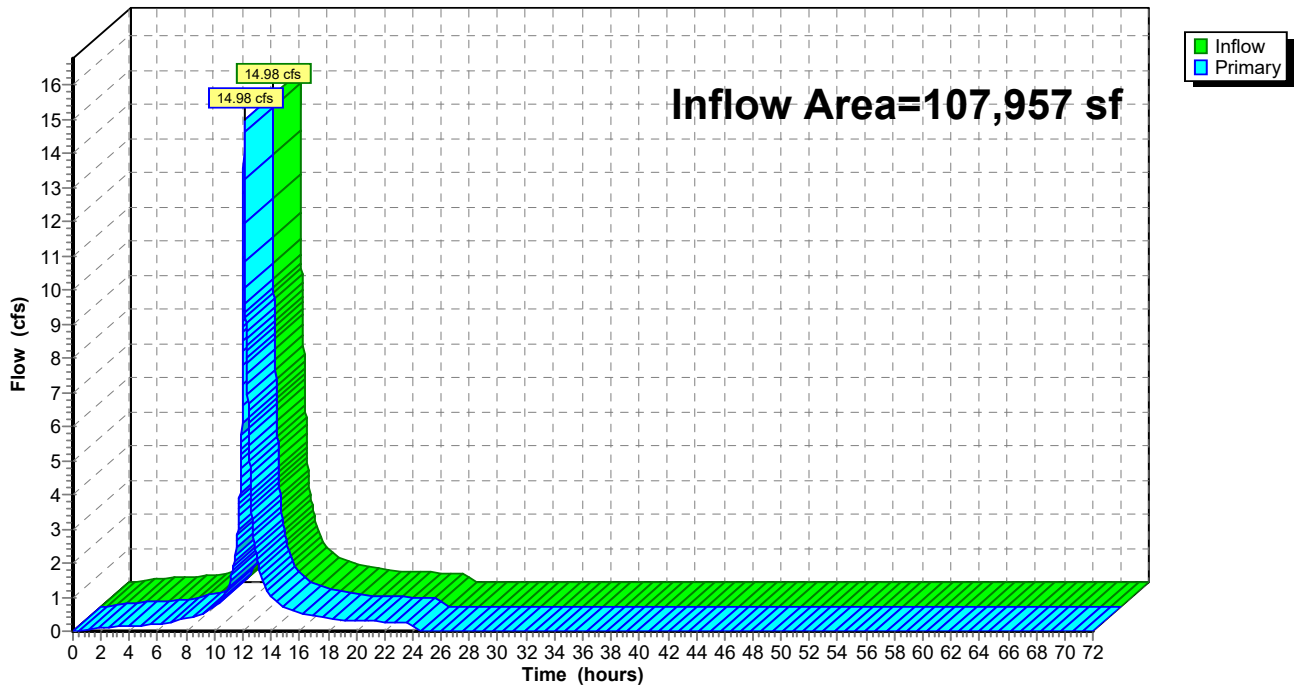
### Summary for Link EX-1: Existing to POI-1

Inflow Area = 107,957 sf, 56.56% Impervious, Inflow Depth = 7.07" for 100-Year event  
Inflow = 14.98 cfs @ 12.11 hrs, Volume= 63,603 cf  
Primary = 14.98 cfs @ 12.11 hrs, Volume= 63,603 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-1: Existing to POI-1

Hydrograph



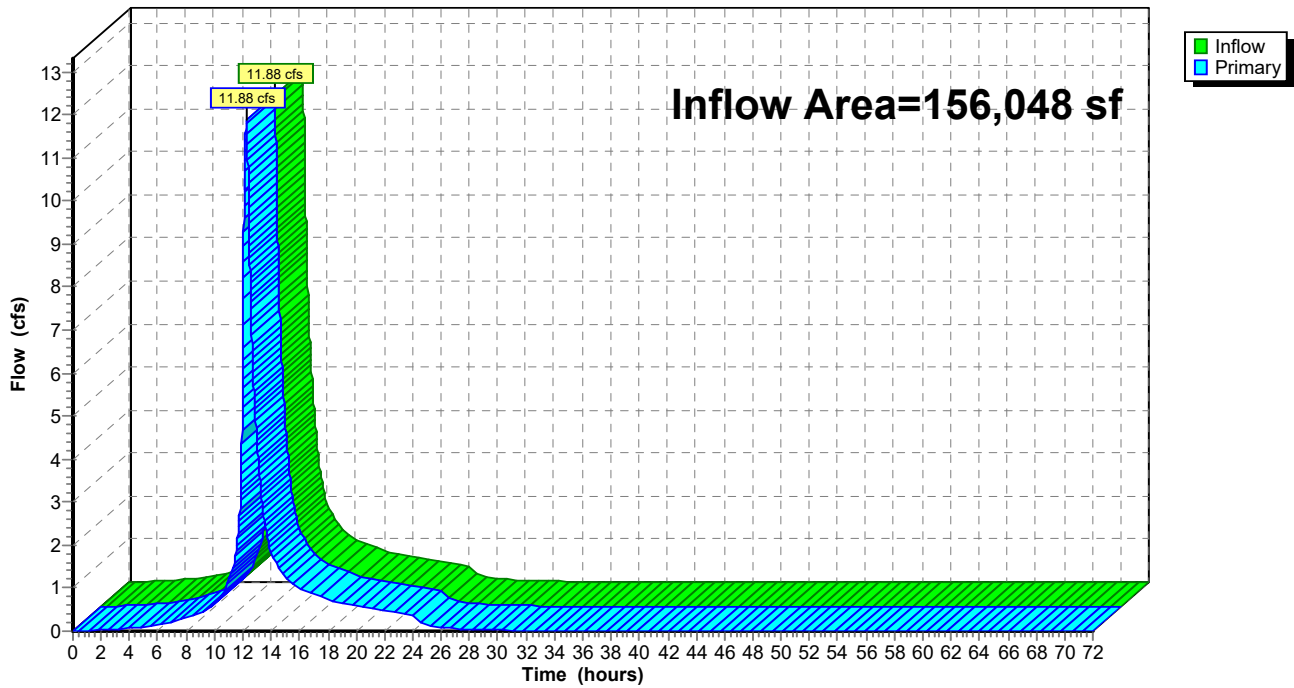
### Summary for Link P-1: Proposed to POI-1

Inflow Area = 156,048 sf, 30.93% Impervious, Inflow Depth = 6.63" for 100-Year event  
Inflow = 11.88 cfs @ 12.27 hrs, Volume= 86,226 cf  
Primary = 11.88 cfs @ 12.27 hrs, Volume= 86,226 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1: Proposed to POI-1

Hydrograph





### Summary for Link P-1B: Pavers 1-6

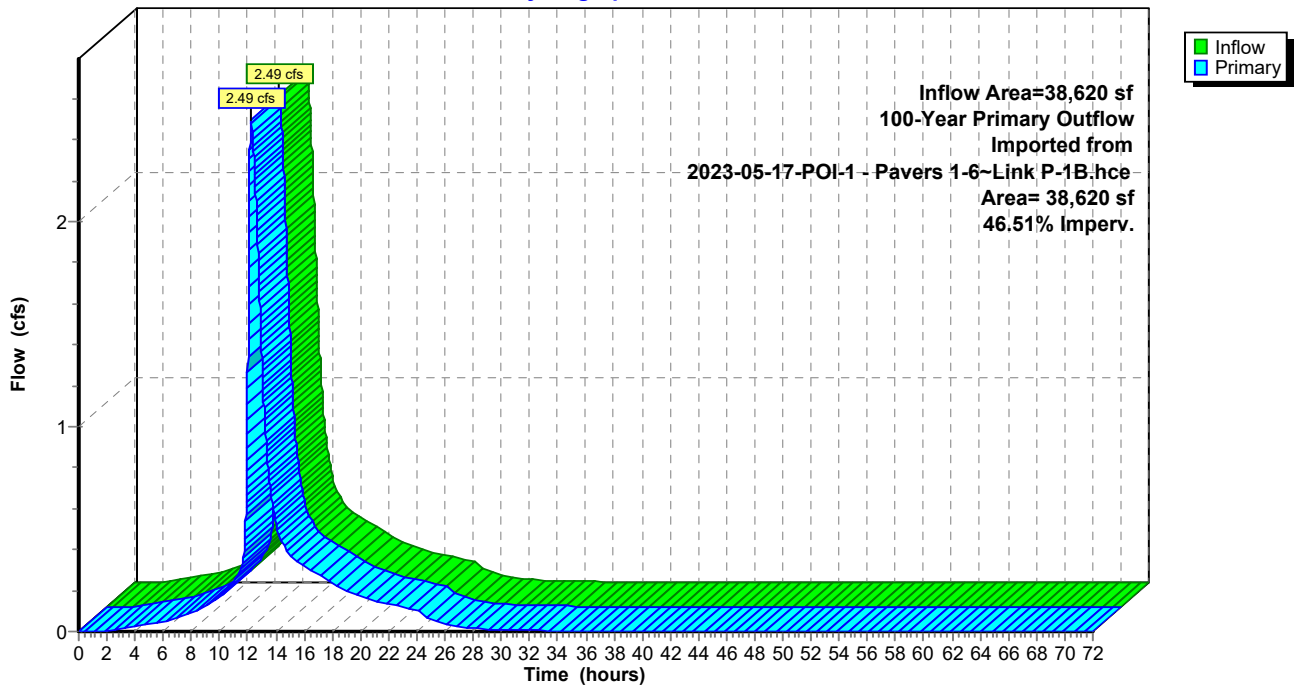
Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 7.17" for 100-Year event  
Inflow = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf  
Primary = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf, Atten= 0%, Lag= 0.0 min  
Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

100-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 1-6~Link P-1B.hce

### Link P-1B: Pavers 1-6

Hydrograph



### Summary for Link P-1C: Pavers 7-11

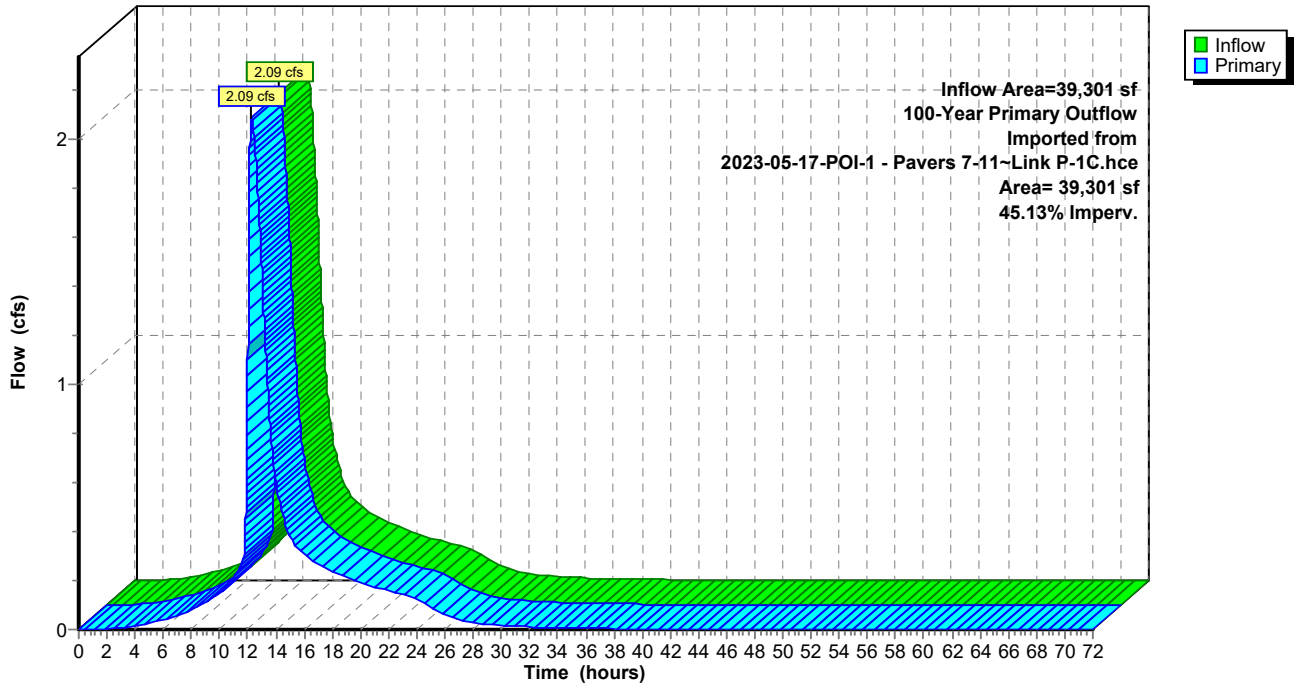
Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 7.16" for 100-Year event  
 Inflow = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf  
 Primary = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf, Atten= 0%, Lag= 0.0 min  
 Routed to Link P-1 : Proposed to POI-1

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

100-Year Primary Outflow Imported from 2023-05-17-POI-1 - Pavers 7-11~Link P-1C.hce

### Link P-1C: Pavers 7-11

Hydrograph



### Summary for Subcatchment P-1B-1: Area 1

Runoff = 0.68 cfs @ 12.10 hrs, Volume= 2,066 cf, Depth= 2.63"  
 Routed to Pond PV-1 : Pervious Pavers 1

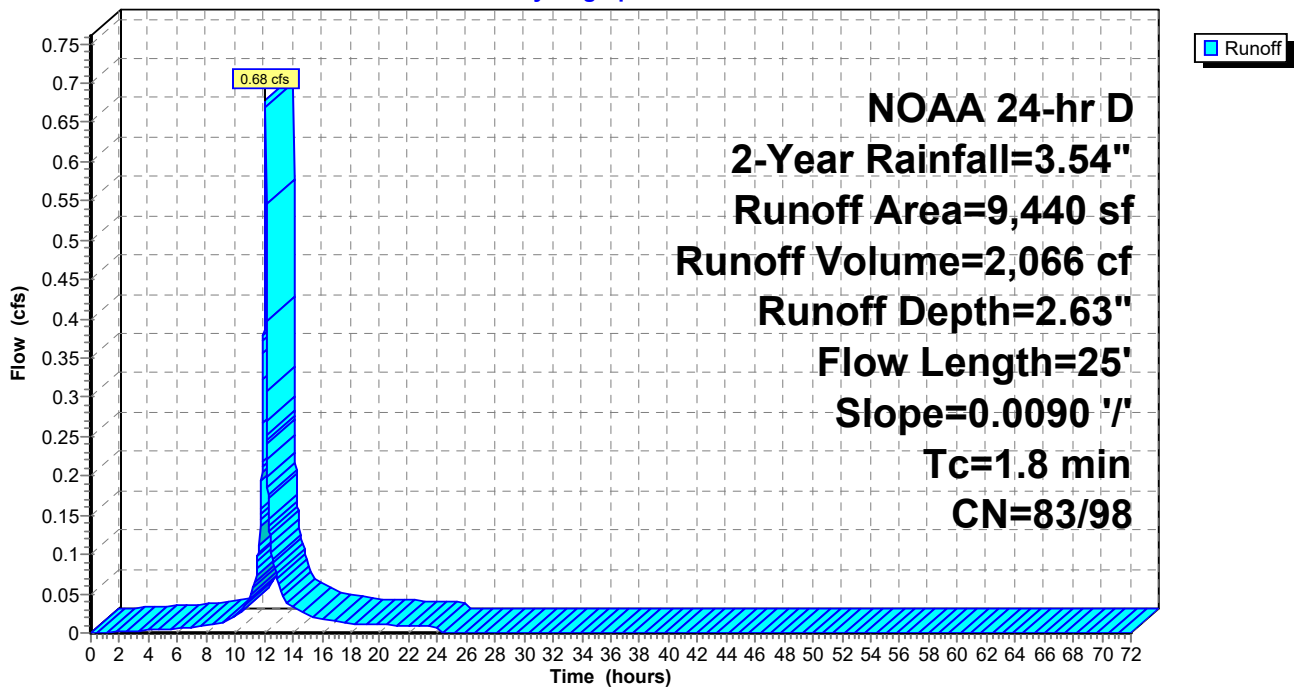
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

### Subcatchment P-1B-1: Area 1

Hydrograph



**Summary for Subcatchment P-1B-2: Area 2**

Runoff = 0.33 cfs @ 12.10 hrs, Volume= 1,007 cf, Depth= 2.49"  
 Routed to Pond PV-2 : Pervious Pavers 2

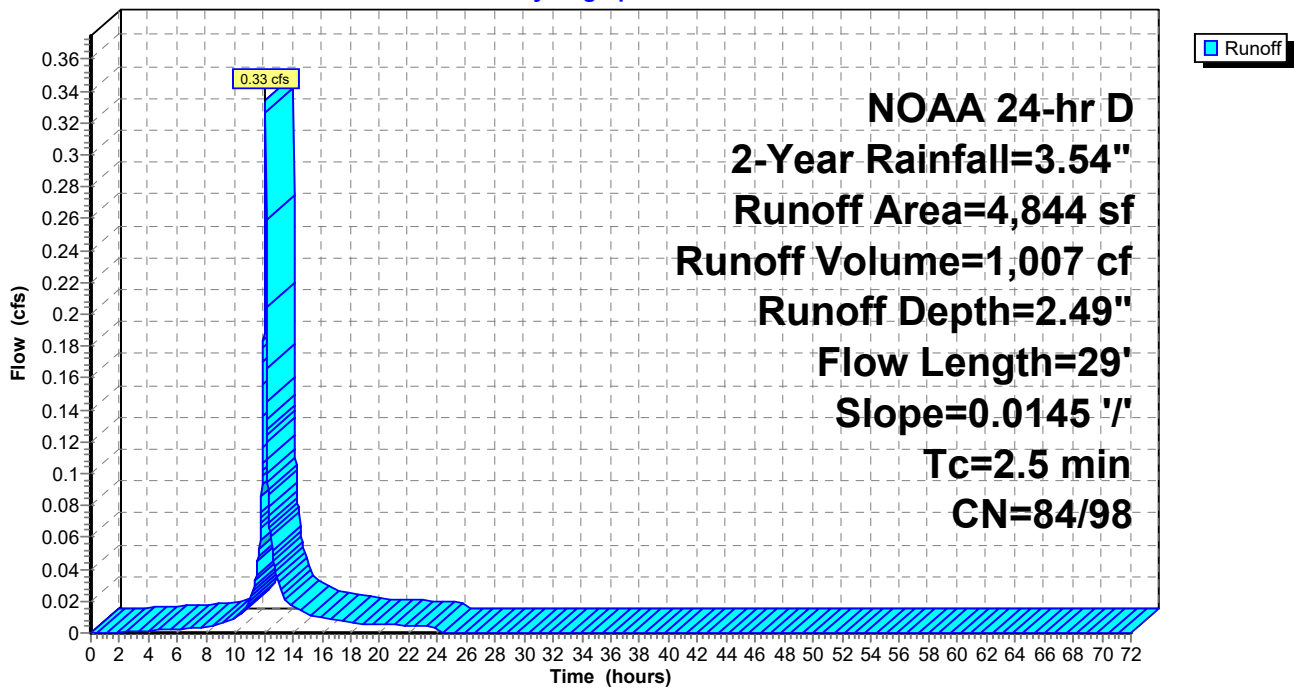
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

**Subcatchment P-1B-2: Area 2**

Hydrograph



**Summary for Subcatchment P-1B-3: Area 3**

Runoff = 0.45 cfs @ 12.11 hrs, Volume= 1,384 cf, Depth= 2.52"  
 Routed to Pond PV-3 : Pervious Pavers 3

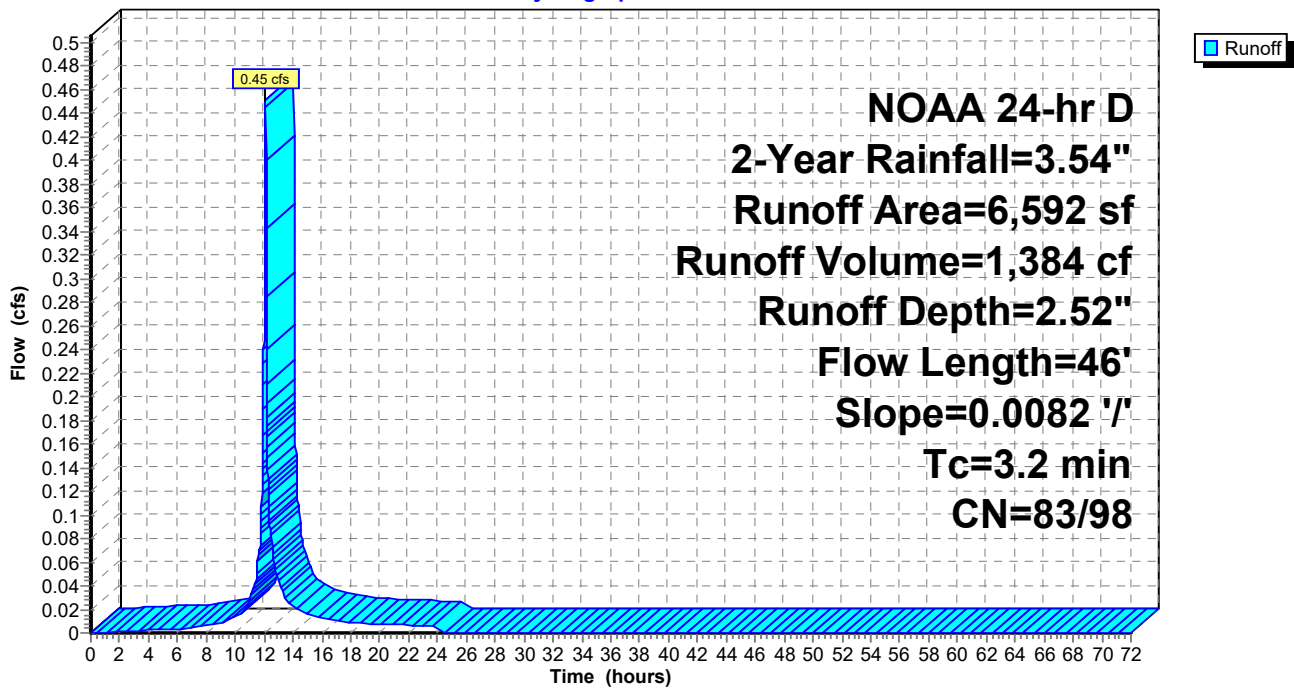
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	917	98	Impervious
*	2,010	98	MVS - Impervious
*	2,400	85	MVS - Pervious Pavers
	1,265	80	>75% Grass cover, Good, HSG D
	6,592	90	Weighted Average
	3,665	83	55.60% Pervious Area
	2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

**Subcatchment P-1B-3: Area 3**

Hydrograph



**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 0.38 cfs @ 12.11 hrs, Volume= 1,181 cf, Depth= 2.56"  
 Routed to Pond PV-4 : Pervious Pavers 4

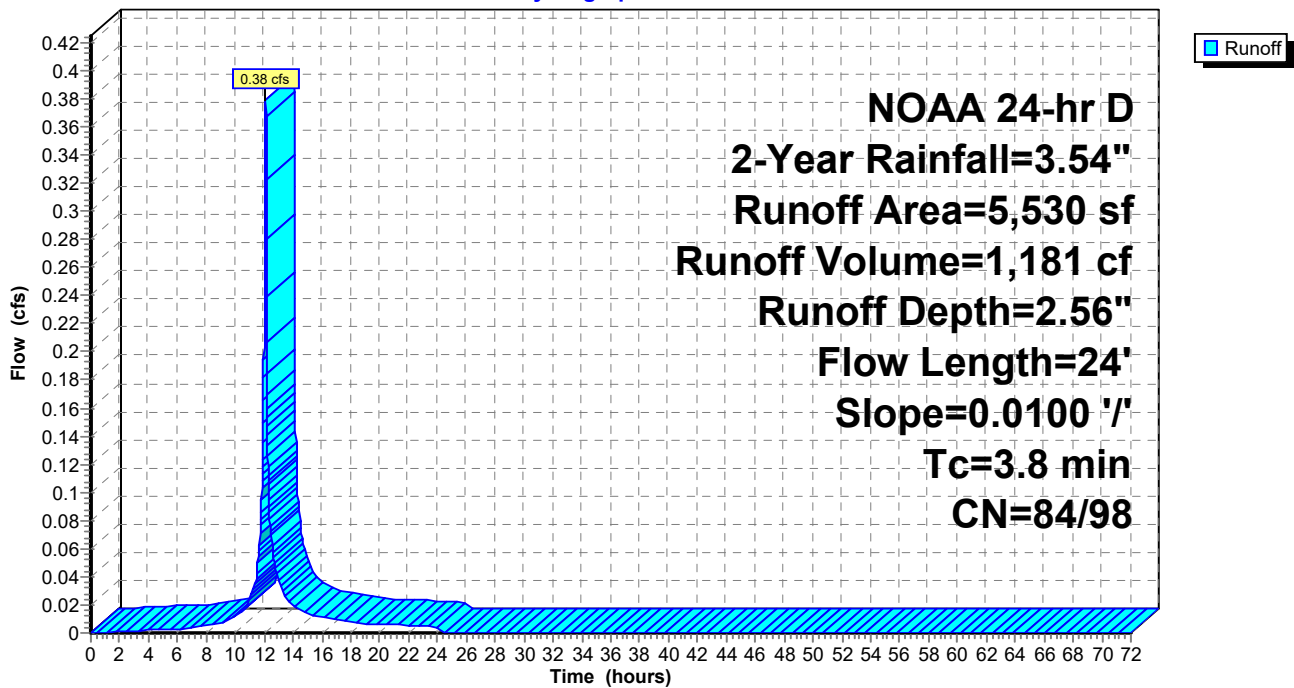
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b>
					Paved Kv= 20.3 fps
3.8	24	Total			

**Subcatchment P-1B-4: Area 4**

Hydrograph



### Summary for Subcatchment P-1B-5: Area 5

Runoff = 0.42 cfs @ 12.11 hrs, Volume= 1,251 cf, Depth= 2.39"  
 Routed to Pond PV-5 : Pervious Pavers 5

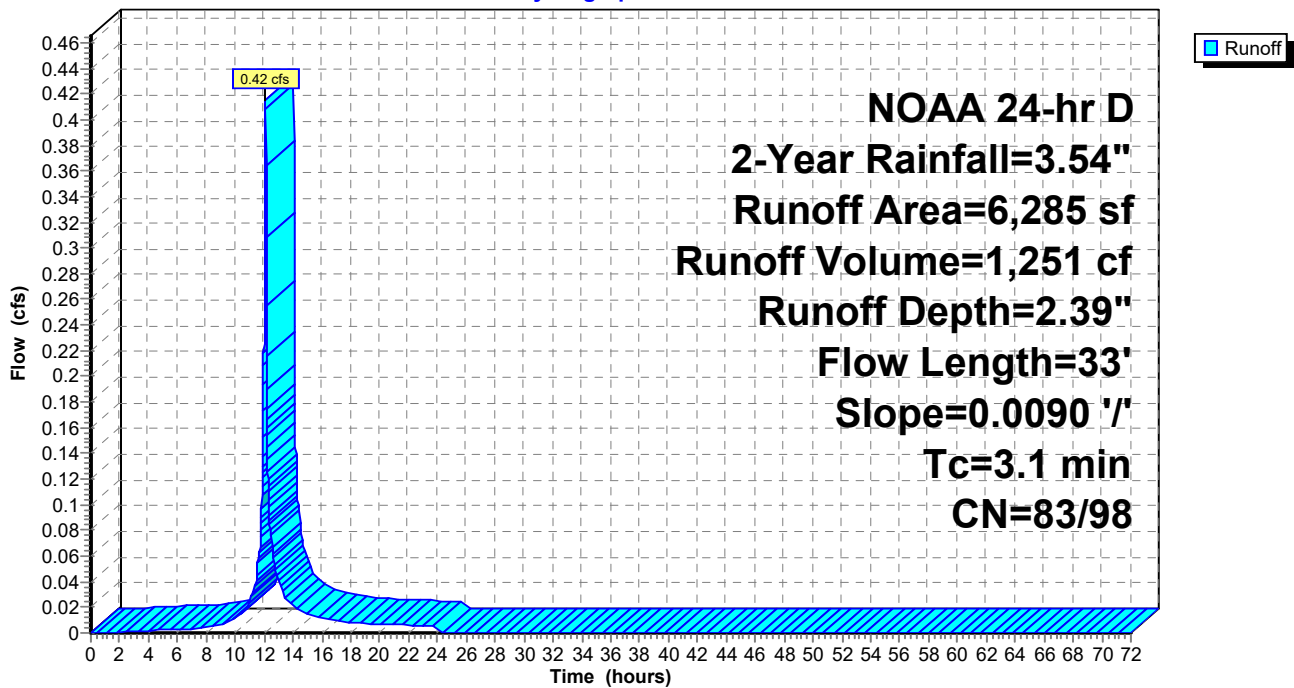
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

### Subcatchment P-1B-5: Area 5

Hydrograph



**Summary for Subcatchment P-1B-6: Area 6**

Runoff = 0.38 cfs @ 12.15 hrs, Volume= 1,357 cf, Depth= 2.75"  
 Routed to Pond PV-6 : Pervious Pavers 6

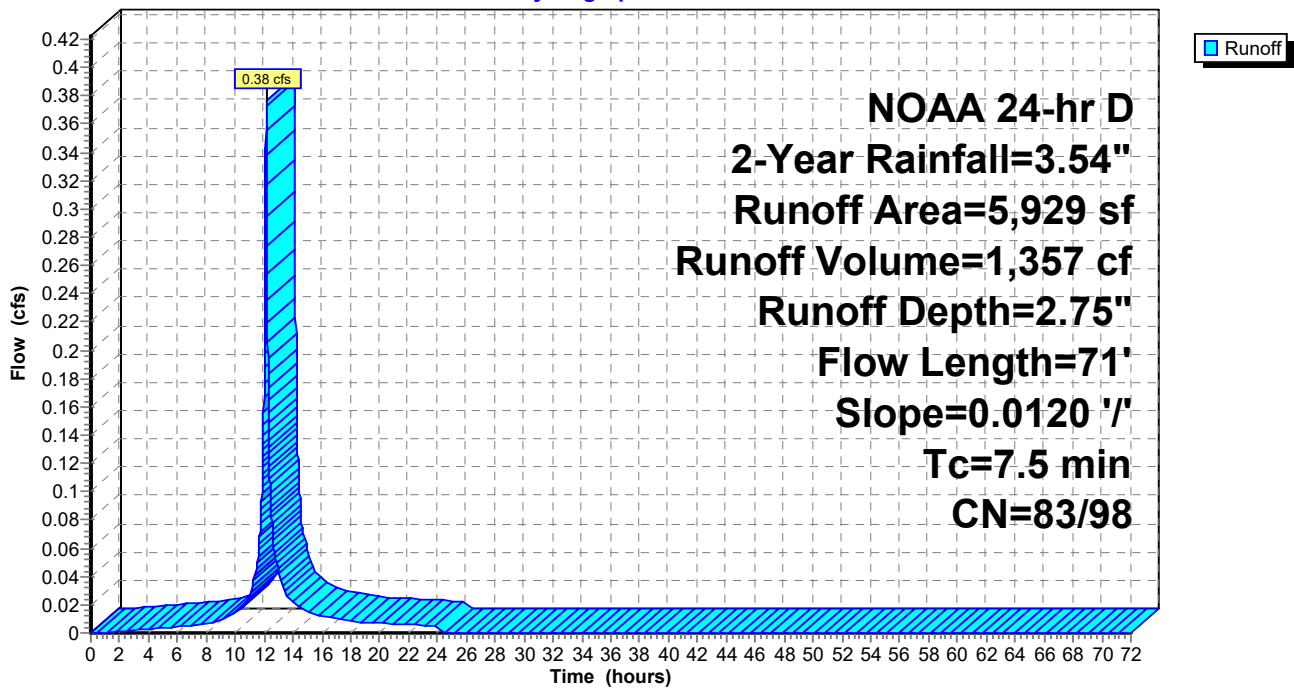
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b>
					Paved Kv= 20.3 fps
7.5	71	Total			

**Subcatchment P-1B-6: Area 6**

Hydrograph





### Summary for Pond PV-1: Pervious Pavers 1

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 2.63" for 2-Year event  
 Inflow = 0.68 cfs @ 12.10 hrs, Volume= 2,066 cf  
 Outflow = 0.12 cfs @ 12.52 hrs, Volume= 2,066 cf, Atten= 83%, Lag= 25.2 min  
 Primary = 0.12 cfs @ 12.52 hrs, Volume= 2,066 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.94' @ 12.52 hrs Surf.Area= 3,078 sf Storage= 775 cf

Plug-Flow detention time= 135.7 min calculated for 2,065 cf (100% of inflow)  
 Center-of-Mass det. time= 135.9 min ( 916.5 - 780.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.31'	1,871 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.31	3,078	0	0
543.83	3,078	4,679	4,679

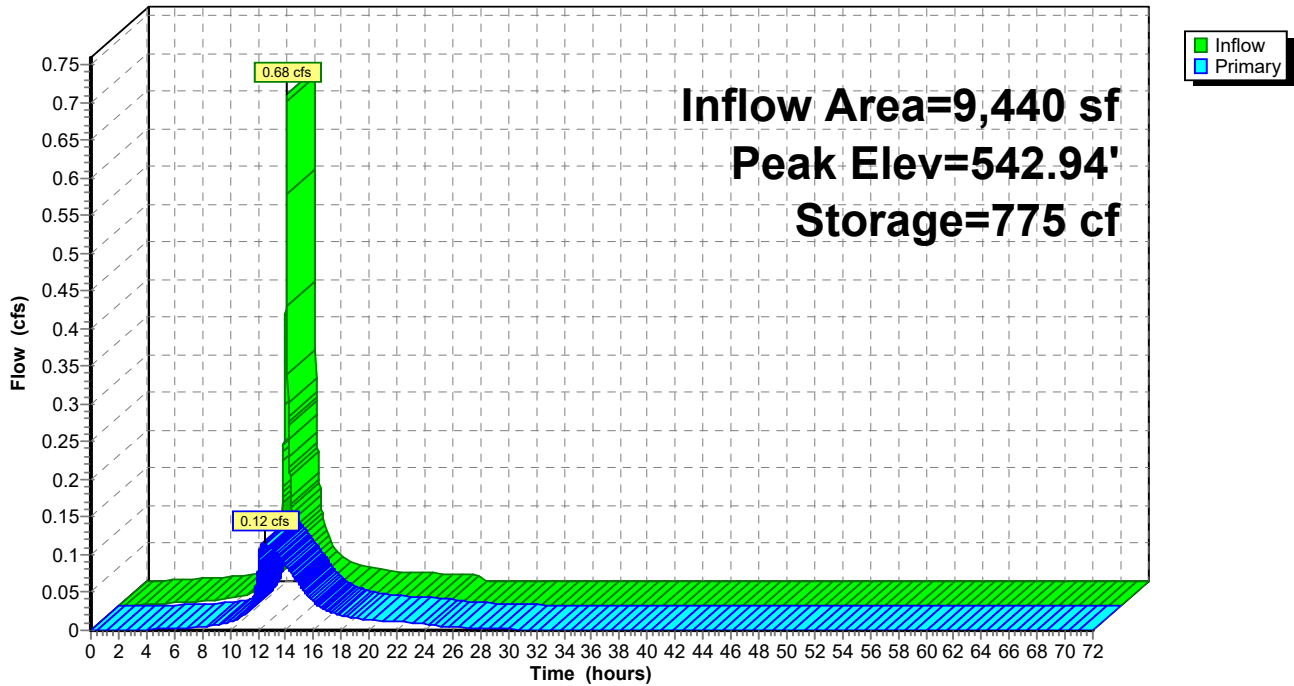
Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.95'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.12 cfs @ 12.52 hrs HW=542.94' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.12 cfs of 0.86 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.12 cfs @ 1.32 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-1: Pervious Pavers 1

Hydrograph



**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 2.49" for 2-Year event  
 Inflow = 0.33 cfs @ 12.10 hrs, Volume= 1,007 cf  
 Outflow = 0.04 cfs @ 12.73 hrs, Volume= 1,007 cf, Atten= 88%, Lag= 37.8 min  
 Primary = 0.04 cfs @ 12.73 hrs, Volume= 1,007 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.00' @ 12.73 hrs Surf.Area= 2,214 sf Storage= 421 cf

Plug-Flow detention time= 158.6 min calculated for 1,007 cf (100% of inflow)  
 Center-of-Mass det. time= 158.7 min ( 949.1 - 790.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,072 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,214	0	0
543.73	2,214	2,679	2,679

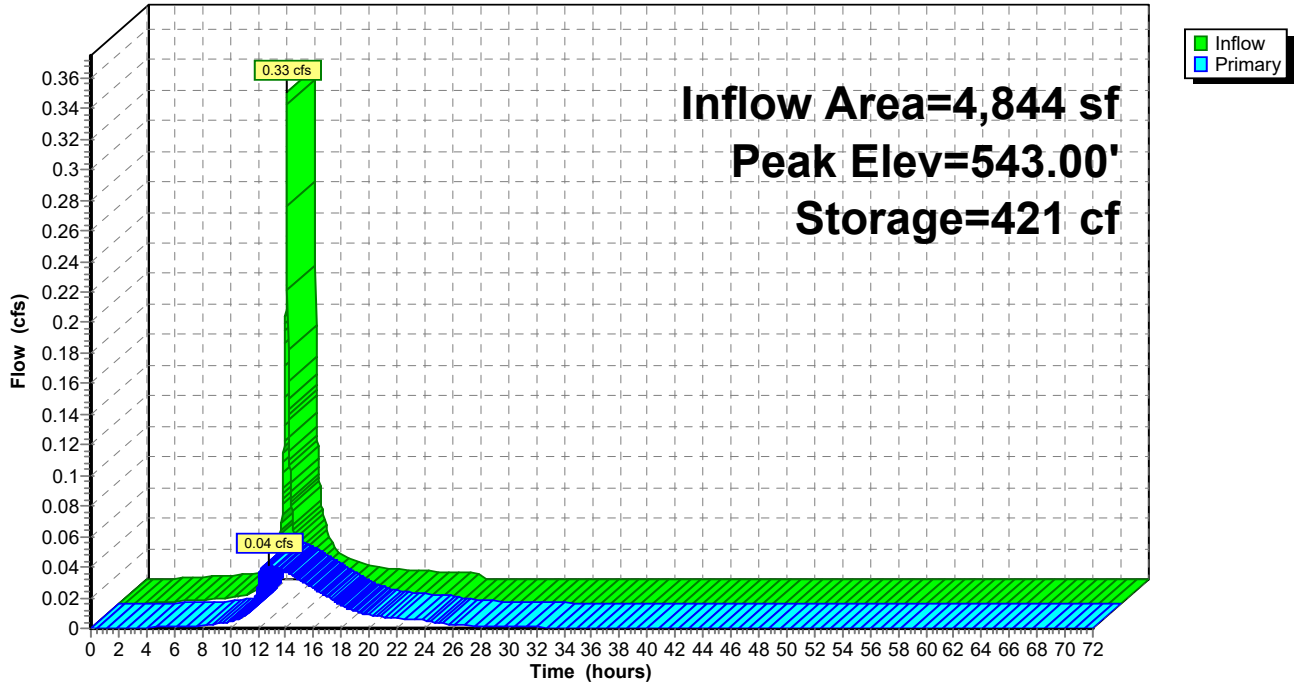
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.00'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.04 cfs @ 12.73 hrs HW=543.00' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.04 cfs of 1.00 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.04 cfs @ 1.20 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-2: Pervious Pavers 2

Hydrograph



**Summary for Pond PV-3: Pervious Pavers 3**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 2.52" for 2-Year event  
 Inflow = 0.45 cfs @ 12.11 hrs, Volume= 1,384 cf  
 Outflow = 0.05 cfs @ 12.92 hrs, Volume= 1,384 cf, Atten= 89%, Lag= 48.7 min  
 Primary = 0.05 cfs @ 12.92 hrs, Volume= 1,384 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.03' @ 12.92 hrs Surf.Area= 2,400 sf Storage= 612 cf

Plug-Flow detention time= 194.6 min calculated for 1,384 cf (100% of inflow)  
 Center-of-Mass det. time= 194.8 min ( 982.5 - 787.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.39'	1,382 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,456 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.39	2,400	0	0
543.83	2,400	3,456	3,456

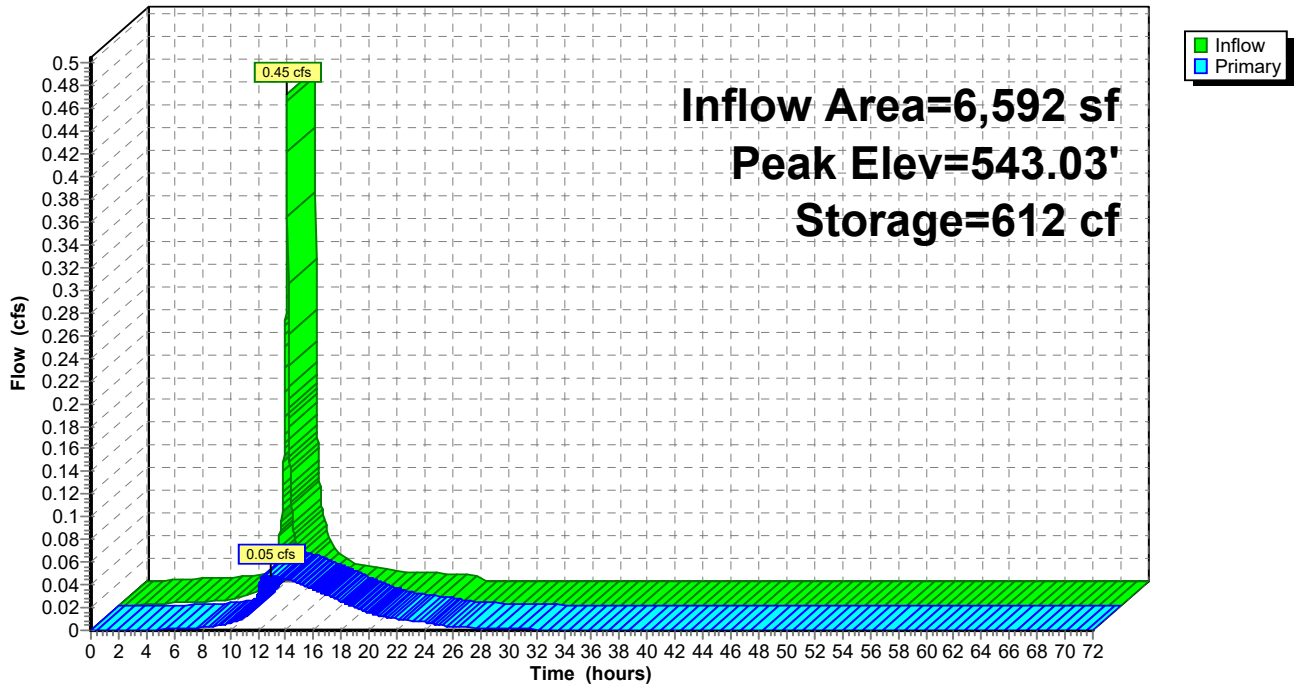
Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.38'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.03'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 12.92 hrs HW=543.03' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.05 cfs of 0.92 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.42 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-3: Pervious Pavers 3

Hydrograph



**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 2.56" for 2-Year event  
 Inflow = 0.38 cfs @ 12.11 hrs, Volume= 1,181 cf  
 Outflow = 0.05 cfs @ 12.80 hrs, Volume= 1,181 cf, Atten= 88%, Lag= 41.3 min  
 Primary = 0.05 cfs @ 12.80 hrs, Volume= 1,181 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.98' @ 12.80 hrs Surf.Area= 2,211 sf Storage= 507 cf

Plug-Flow detention time= 178.0 min calculated for 1,181 cf (100% of inflow)  
 Center-of-Mass det. time= 178.2 min ( 965.8 - 787.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.41'	1,256 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,140 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.41	2,211	0	0
543.83	2,211	3,140	3,140

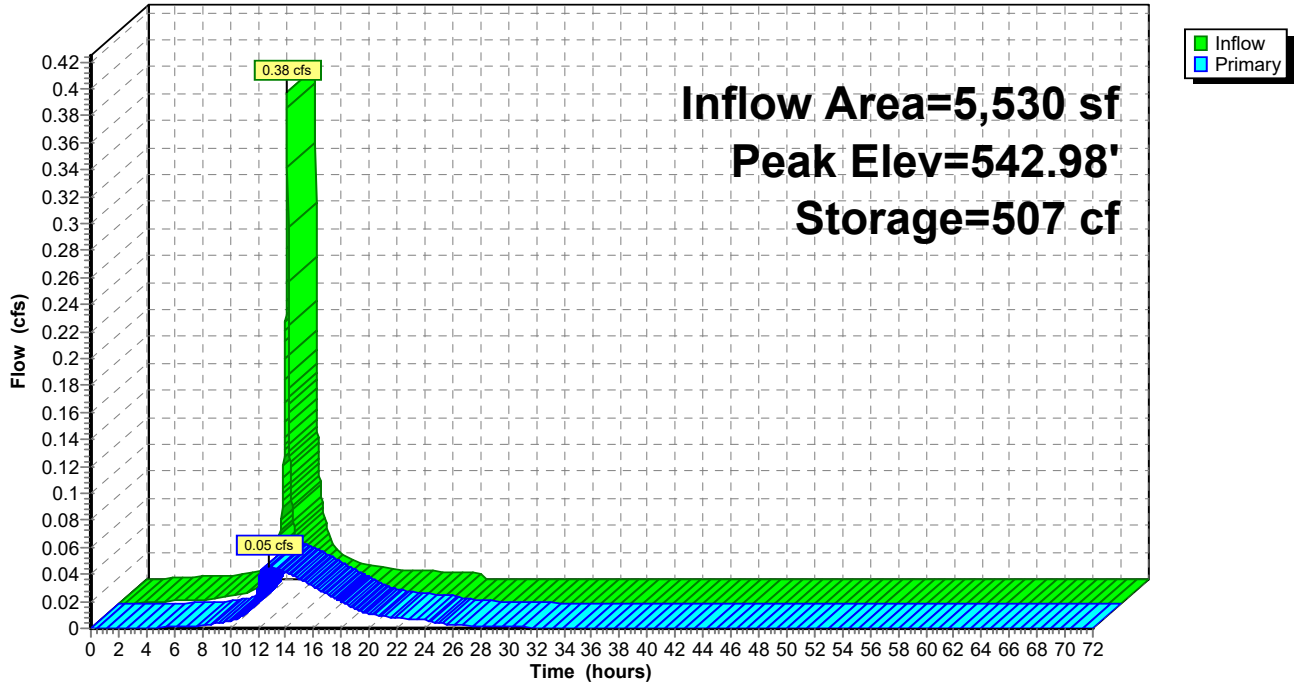
Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.40'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.98'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 12.80 hrs HW=542.98' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.05 cfs of 1.31 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.33 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.00 cfs @ 0.07 fps)

### Pond PV-4: Pervious Pavers 4

Hydrograph





**Summary for Pond PV-5: Pervious Pavers 5**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 2.39" for 2-Year event  
 Inflow = 0.42 cfs @ 12.11 hrs, Volume= 1,251 cf  
 Outflow = 0.05 cfs @ 12.87 hrs, Volume= 1,251 cf, Atten= 89%, Lag= 46.0 min  
 Primary = 0.05 cfs @ 12.87 hrs, Volume= 1,251 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.09' @ 12.87 hrs Surf.Area= 2,400 sf Storage= 551 cf

Plug-Flow detention time= 192.5 min calculated for 1,251 cf (100% of inflow)  
 Center-of-Mass det. time= 192.7 min ( 988.2 - 795.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,258 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,144 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,400	0	0
543.83	2,400	3,144	3,144

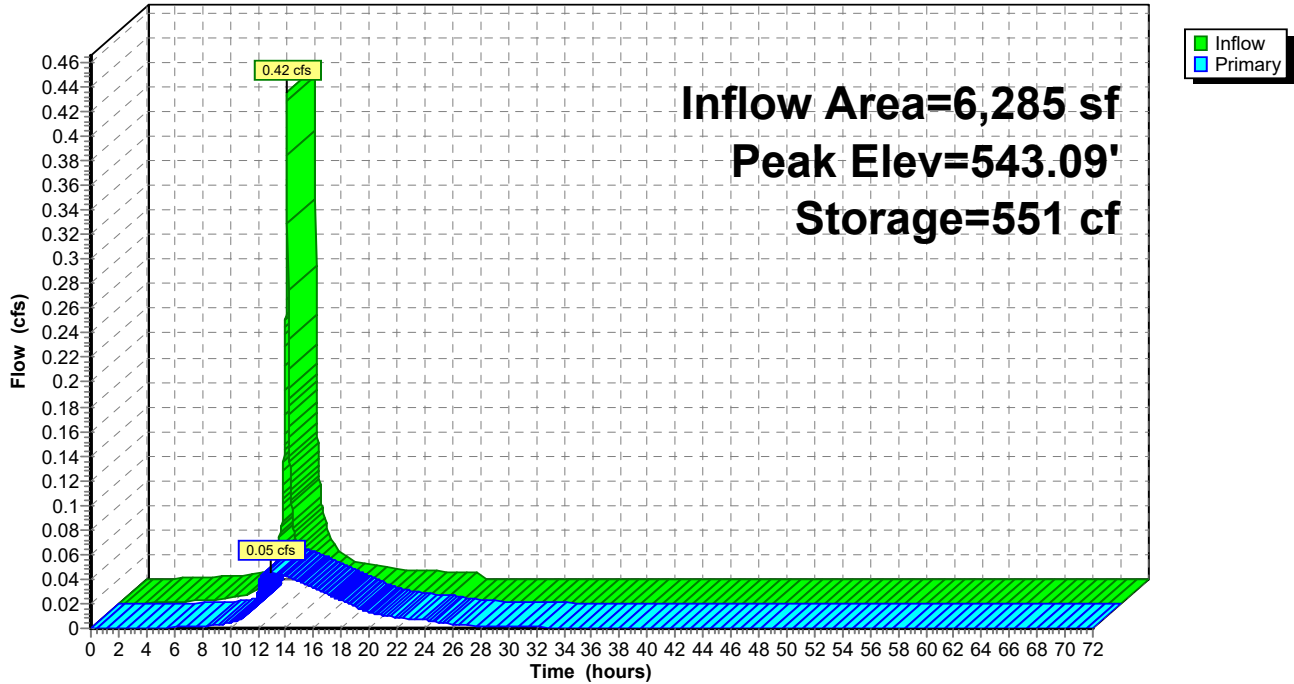
Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.51'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.09'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 12.87 hrs HW=543.09' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.05 cfs of 1.03 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.05 cfs @ 1.33 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.00 cfs @ 0.08 fps)

### Pond PV-5: Pervious Pavers 5

Hydrograph



**Summary for Pond PV-6: Pervious Pavers 6**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 2.75" for 2-Year event  
 Inflow = 0.38 cfs @ 12.15 hrs, Volume= 1,357 cf  
 Outflow = 0.08 cfs @ 12.57 hrs, Volume= 1,357 cf, Atten= 80%, Lag= 25.3 min  
 Primary = 0.08 cfs @ 12.57 hrs, Volume= 1,357 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.57' @ 12.57 hrs Surf.Area= 1,488 sf Storage= 459 cf

Plug-Flow detention time= 96.8 min calculated for 1,357 cf (100% of inflow)  
 Center-of-Mass det. time= 96.9 min ( 876.8 - 779.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.80'	1,000 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,500 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.80	1,488	0	0
543.48	1,488	2,500	2,500

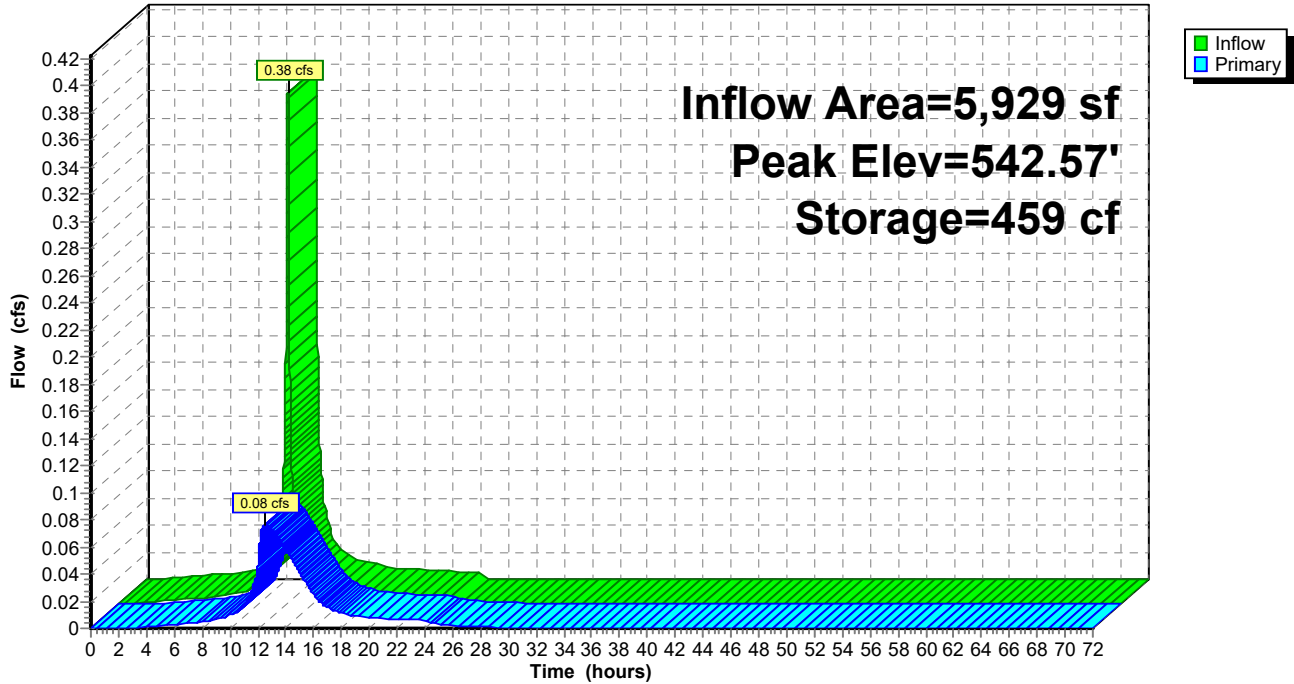
Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.79'	<b>3.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.57'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.08 cfs @ 12.57 hrs HW=542.57' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.08 cfs of 1.14 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.08 cfs @ 1.56 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.00 cfs @ 0.05 fps)

### Pond PV-6: Pervious Pavers 6

Hydrograph



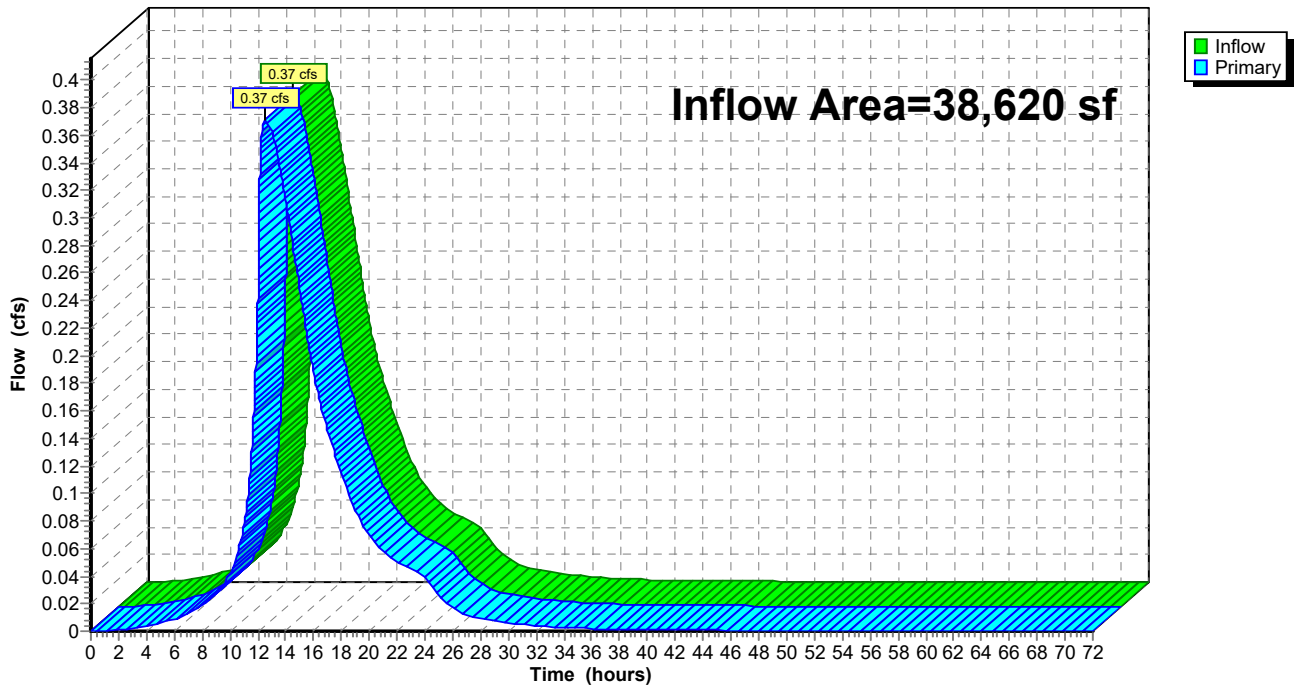
### Summary for Link P-1B: Pavers 1-6

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 2.56" for 2-Year event  
Inflow = 0.37 cfs @ 12.57 hrs, Volume= 8,246 cf  
Primary = 0.37 cfs @ 12.57 hrs, Volume= 8,246 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1B: Pavers 1-6

Hydrograph



**Summary for Subcatchment P-1B-1: Area 1**

Runoff = 1.08 cfs @ 12.10 hrs, Volume= 3,326 cf, Depth= 4.23"  
 Routed to Pond PV-1 : Pervious Pavers 1

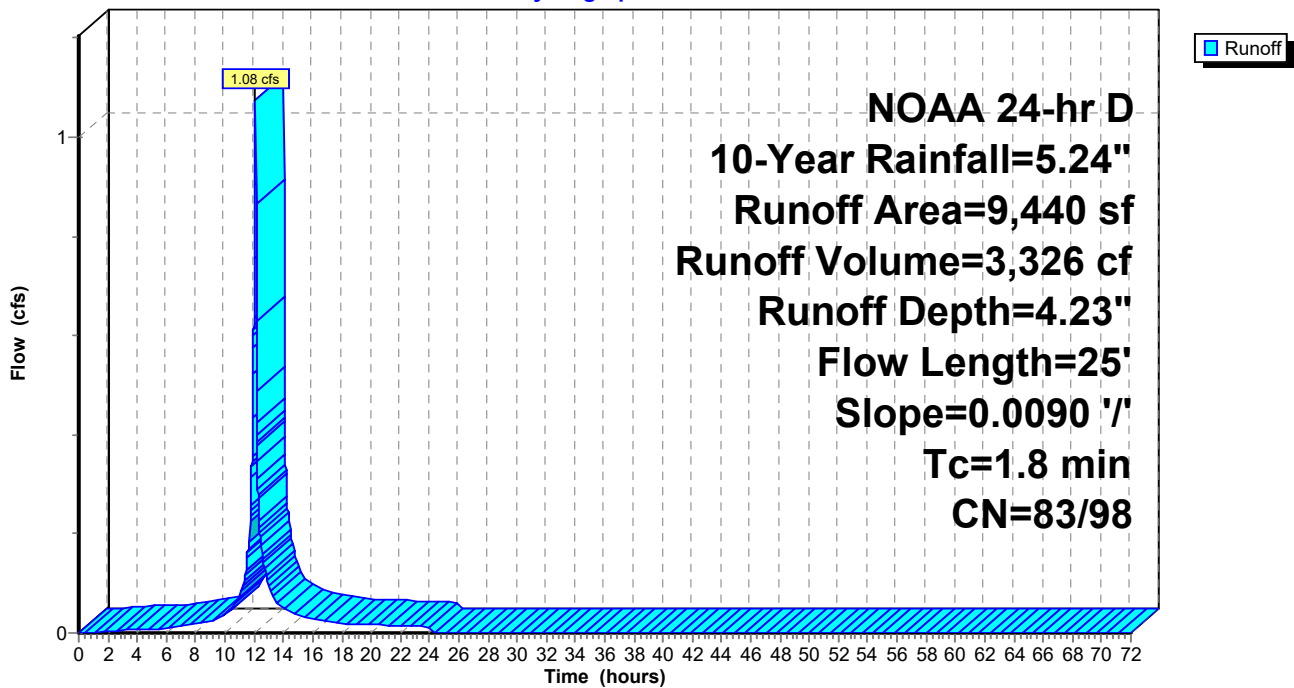
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

**Subcatchment P-1B-1: Area 1**

Hydrograph



### Summary for Subcatchment P-1B-2: Area 2

Runoff = 0.54 cfs @ 12.10 hrs, Volume= 1,648 cf, Depth= 4.08"  
 Routed to Pond PV-2 : Pervious Pavers 2

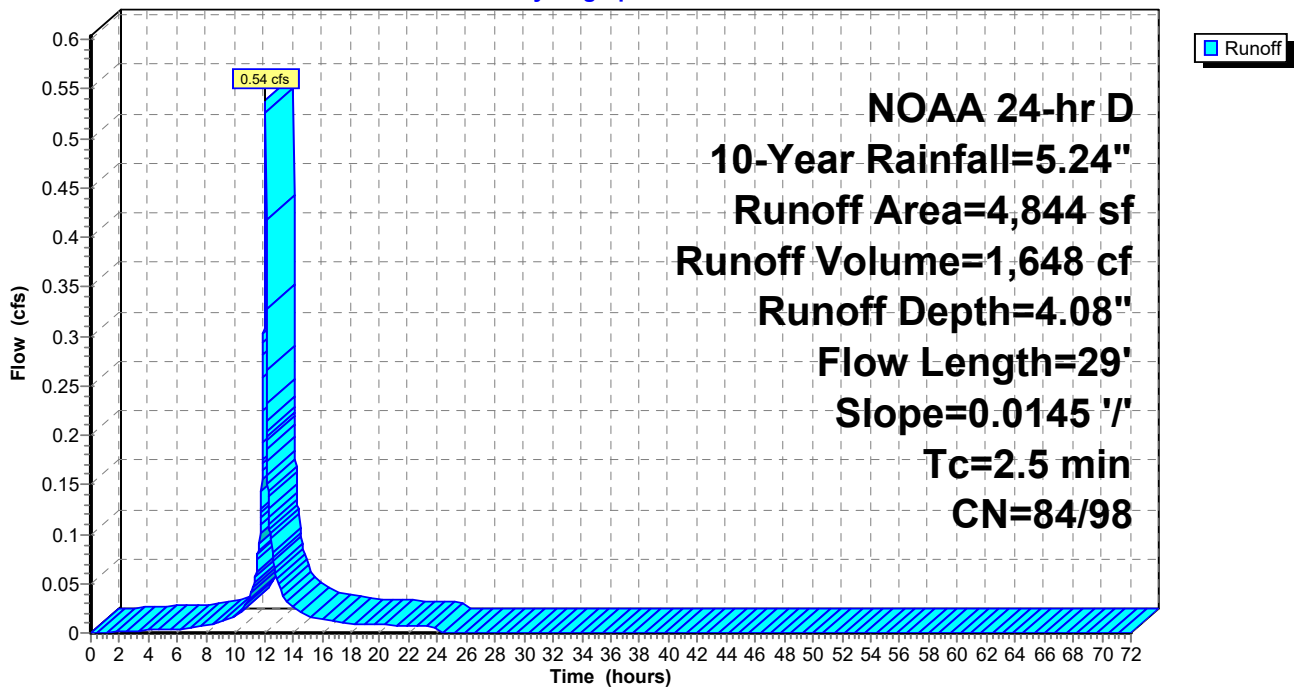
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

### Subcatchment P-1B-2: Area 2

Hydrograph



### Summary for Subcatchment P-1B-3: Area 3

Runoff = 0.73 cfs @ 12.11 hrs, Volume= 2,256 cf, Depth= 4.11"  
 Routed to Pond PV-3 : Pervious Pavers 3

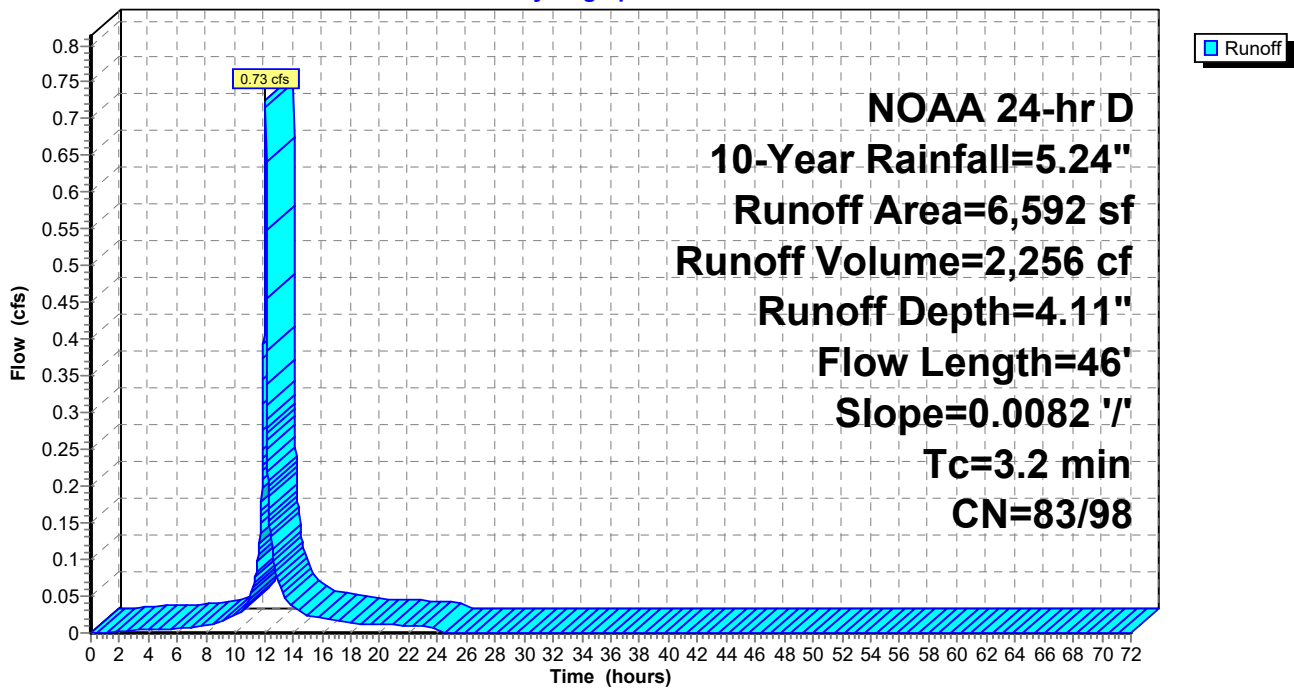
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	917	98	Impervious
*	2,010	98	MVS - Impervious
*	2,400	85	MVS - Pervious Pavers
	1,265	80	>75% Grass cover, Good, HSG D
	6,592	90	Weighted Average
	3,665	83	55.60% Pervious Area
	2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

### Subcatchment P-1B-3: Area 3

Hydrograph





**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 0.61 cfs @ 12.11 hrs, Volume= 1,917 cf, Depth= 4.16"  
 Routed to Pond PV-4 : Pervious Pavers 4

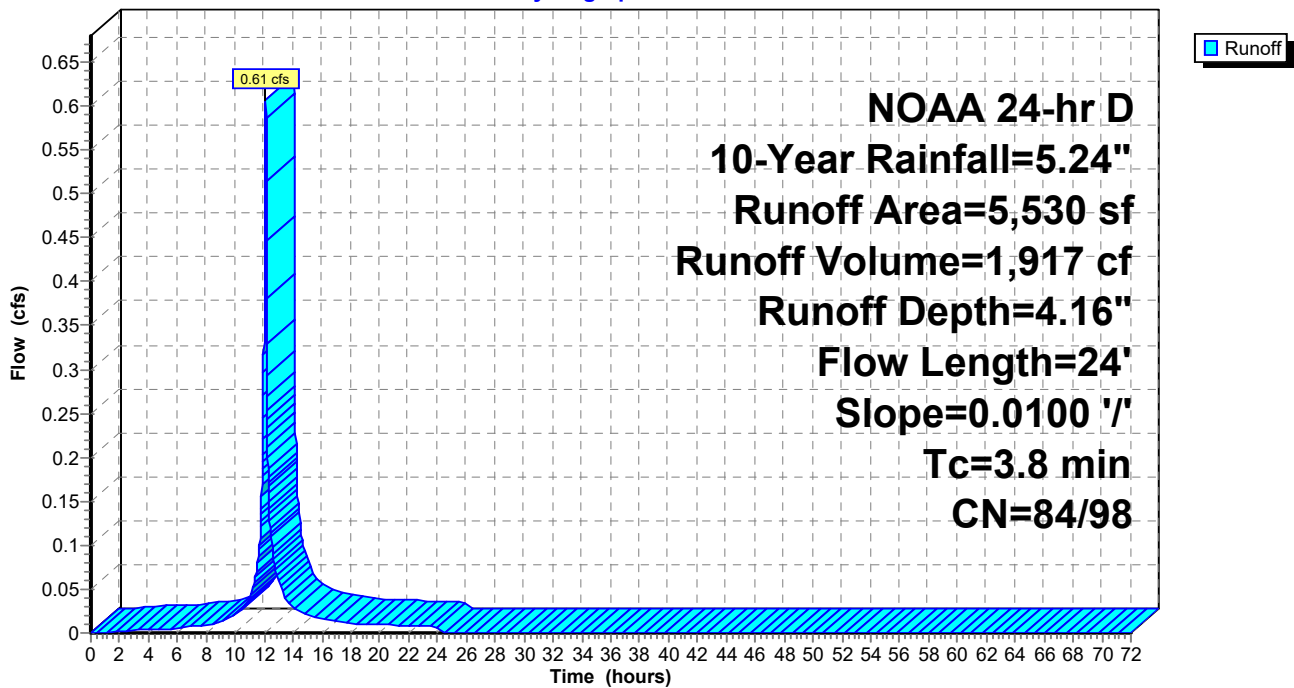
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b>
					Paved Kv= 20.3 fps
3.8	24	Total			

**Subcatchment P-1B-4: Area 4**

Hydrograph



**Summary for Subcatchment P-1B-5: Area 5**

Runoff = 0.68 cfs @ 12.11 hrs, Volume= 2,073 cf, Depth= 3.96"  
 Routed to Pond PV-5 : Pervious Pavers 5

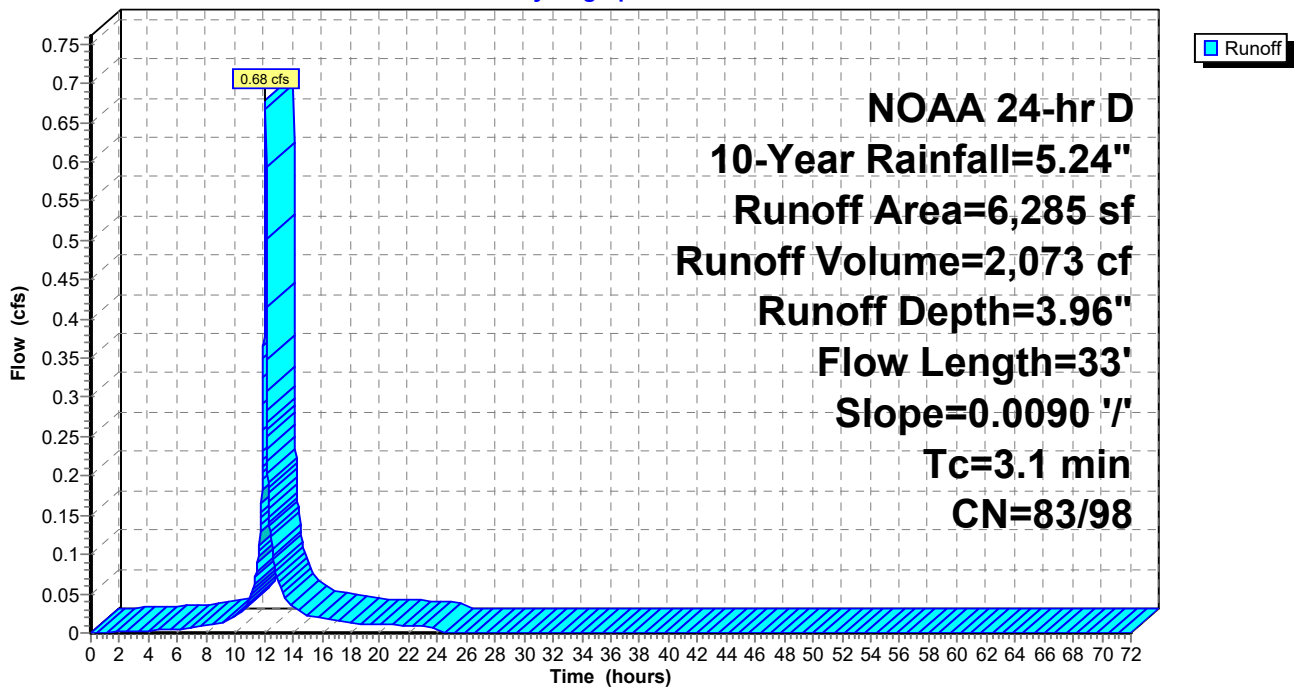
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

**Subcatchment P-1B-5: Area 5**

Hydrograph



### Summary for Subcatchment P-1B-6: Area 6

Runoff = 0.59 cfs @ 12.14 hrs, Volume= 2,156 cf, Depth= 4.36"  
 Routed to Pond PV-6 : Pervious Pavers 6

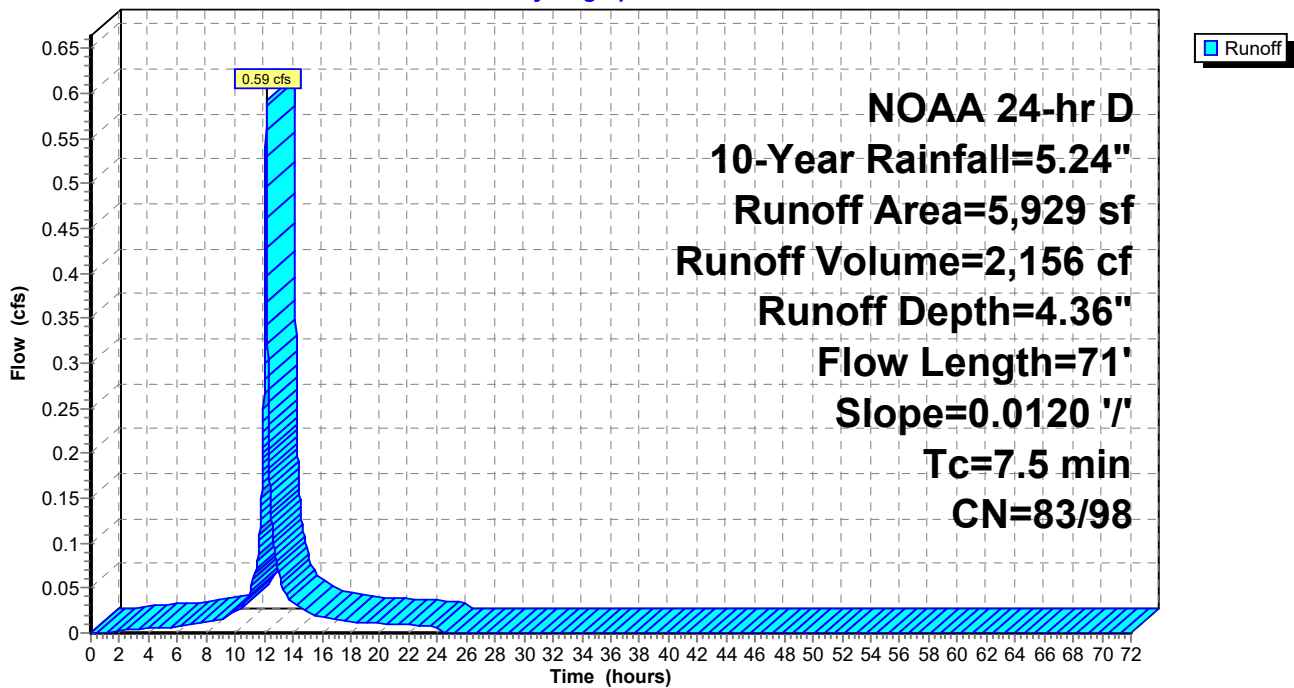
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b>
					Paved Kv= 20.3 fps
7.5	71	Total			

### Subcatchment P-1B-6: Area 6

Hydrograph



### Summary for Pond PV-1: Pervious Pavers 1

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 4.23" for 10-Year event  
 Inflow = 1.08 cfs @ 12.10 hrs, Volume= 3,326 cf  
 Outflow = 0.28 cfs @ 12.26 hrs, Volume= 3,326 cf, Atten= 74%, Lag= 9.4 min  
 Primary = 0.28 cfs @ 12.26 hrs, Volume= 3,326 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.24' @ 12.26 hrs Surf.Area= 3,078 sf Storage= 1,140 cf

Plug-Flow detention time= 116.1 min calculated for 3,325 cf (100% of inflow)  
 Center-of-Mass det. time= 116.4 min ( 888.4 - 772.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.31'	1,871 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.31	3,078	0	0
543.83	3,078	4,679	4,679

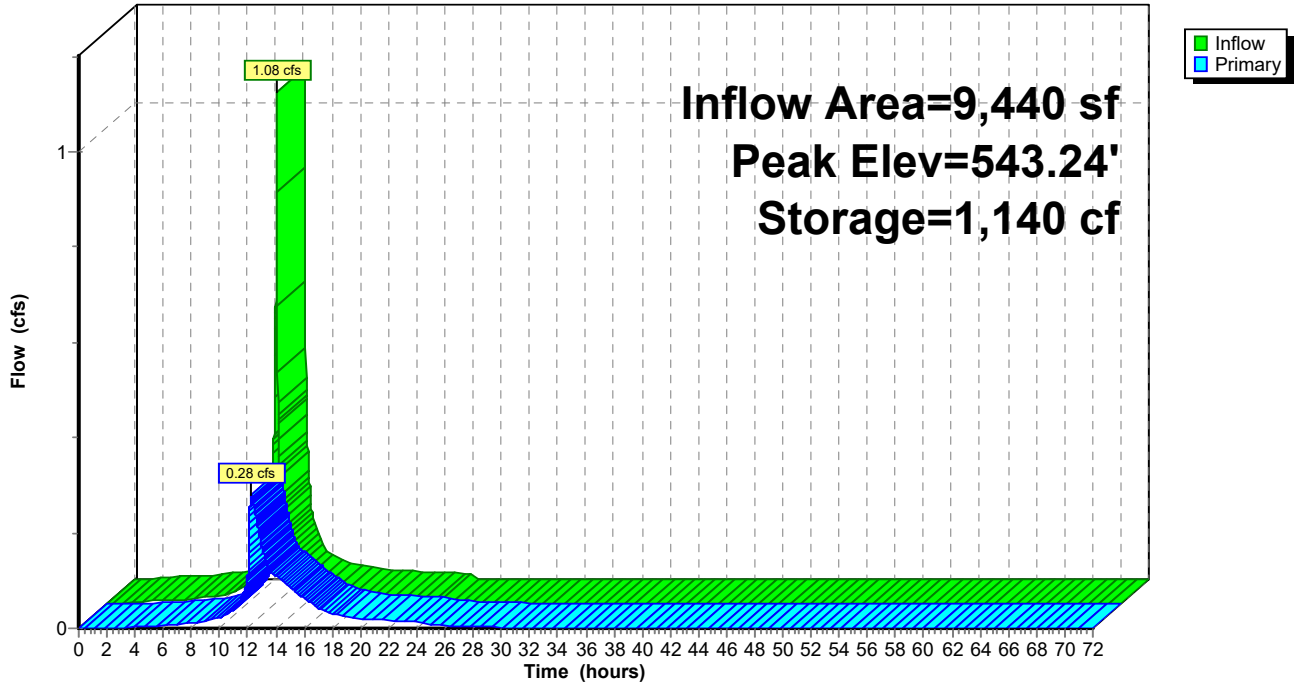
Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.95'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.28 cfs @ 12.26 hrs HW=543.24' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.28 cfs of 0.97 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.15 cfs @ 1.69 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.13 cfs @ 0.69 fps)

### Pond PV-1: Pervious Pavers 1

Hydrograph



**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 4.08" for 10-Year event  
 Inflow = 0.54 cfs @ 12.10 hrs, Volume= 1,648 cf  
 Outflow = 0.13 cfs @ 12.32 hrs, Volume= 1,648 cf, Atten= 75%, Lag= 13.1 min  
 Primary = 0.13 cfs @ 12.32 hrs, Volume= 1,648 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.21' @ 12.32 hrs Surf.Area= 2,214 sf Storage= 611 cf

Plug-Flow detention time= 137.0 min calculated for 1,648 cf (100% of inflow)  
 Center-of-Mass det. time= 137.1 min ( 917.6 - 780.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,072 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,214	0	0
543.73	2,214	2,679	2,679

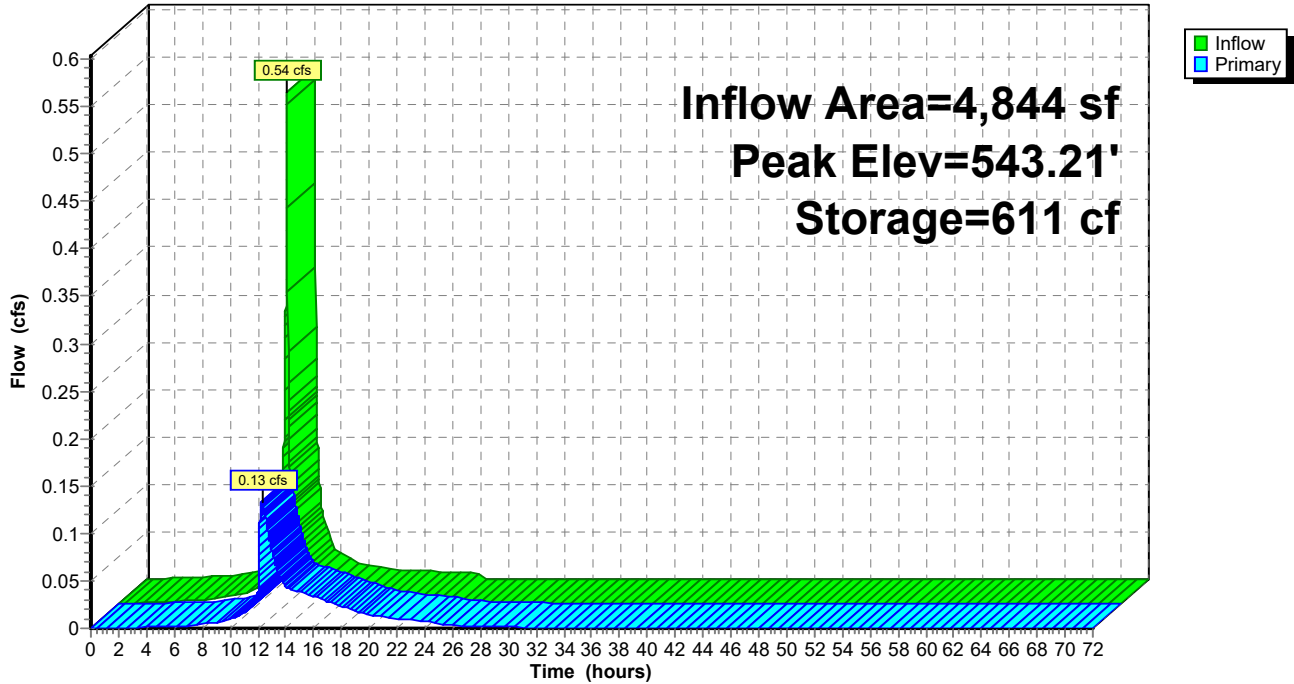
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.00'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.13 cfs @ 12.32 hrs HW=543.21' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.13 cfs of 1.09 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.05 cfs @ 1.50 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.08 cfs @ 0.59 fps)

### Pond PV-2: Pervious Pavers 2

Hydrograph



### Summary for Pond PV-3: Pervious Pavers 3

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 4.11" for 10-Year event  
 Inflow = 0.73 cfs @ 12.11 hrs, Volume= 2,256 cf  
 Outflow = 0.18 cfs @ 12.33 hrs, Volume= 2,256 cf, Atten= 76%, Lag= 13.7 min  
 Primary = 0.18 cfs @ 12.33 hrs, Volume= 2,256 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.29' @ 12.33 hrs Surf.Area= 2,400 sf Storage= 868 cf

Plug-Flow detention time= 163.7 min calculated for 2,256 cf (100% of inflow)  
 Center-of-Mass det. time= 163.9 min ( 942.4 - 778.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.39'	1,382 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,456 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.39	2,400	0	0
543.83	2,400	3,456	3,456

Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.38'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.03'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

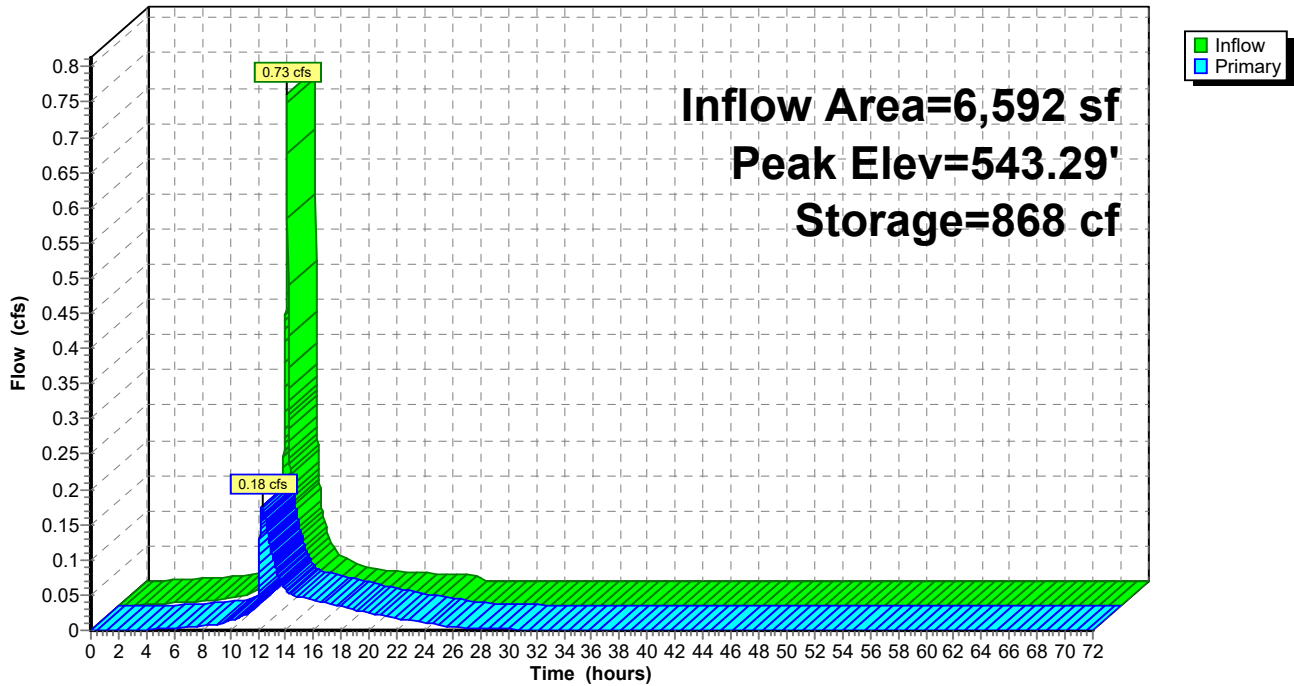
**Primary OutFlow** Max=0.18 cfs @ 12.33 hrs HW=543.29' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.18 cfs of 1.04 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.73 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.12 cfs @ 0.66 fps)



### Pond PV-3: Pervious Pavers 3

Hydrograph



**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 4.16" for 10-Year event  
 Inflow = 0.61 cfs @ 12.11 hrs, Volume= 1,917 cf  
 Outflow = 0.16 cfs @ 12.33 hrs, Volume= 1,917 cf, Atten= 74%, Lag= 13.0 min  
 Primary = 0.16 cfs @ 12.33 hrs, Volume= 1,917 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.22' @ 12.33 hrs Surf.Area= 2,211 sf Storage= 718 cf

Plug-Flow detention time= 149.4 min calculated for 1,917 cf (100% of inflow)  
 Center-of-Mass det. time= 149.6 min ( 927.8 - 778.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.41'	1,256 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,140 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.41	2,211	0	0
543.83	2,211	3,140	3,140

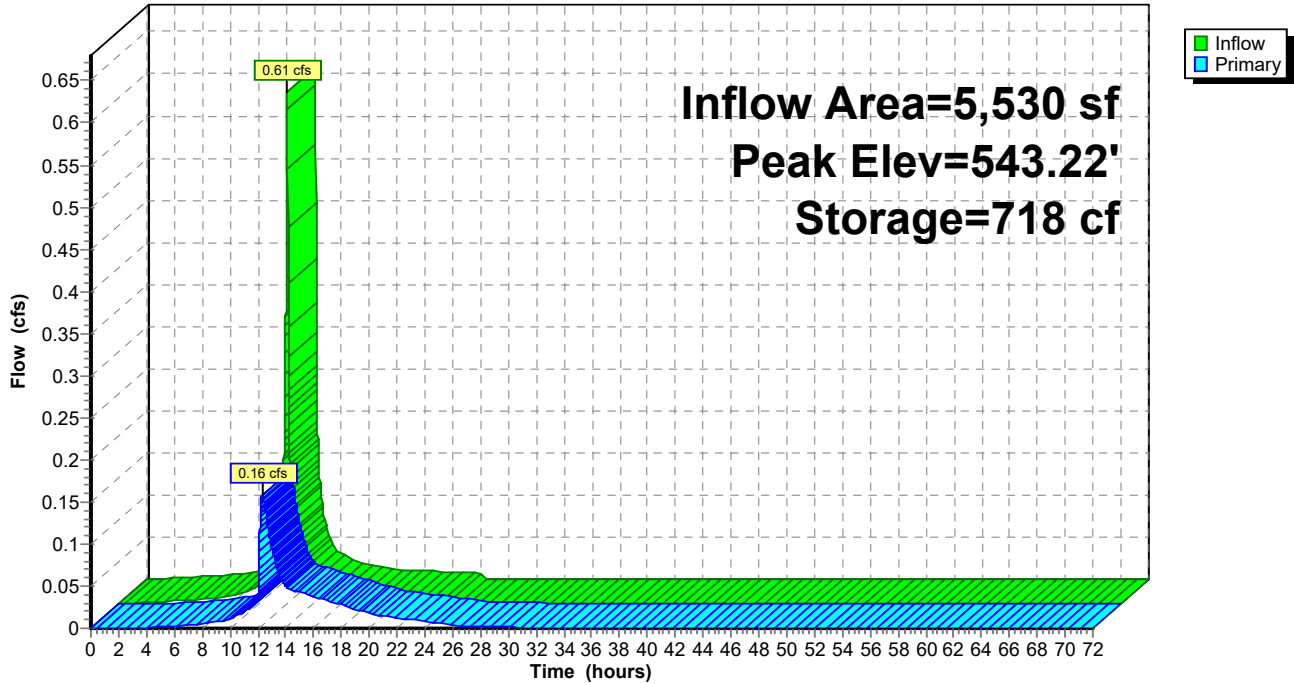
Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.40'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.98'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.16 cfs @ 12.33 hrs HW=543.22' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.16 cfs of 1.39 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.63 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.10 cfs @ 0.63 fps)

### Pond PV-4: Pervious Pavers 4

Hydrograph



**Summary for Pond PV-5: Pervious Pavers 5**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 3.96" for 10-Year event  
 Inflow = 0.68 cfs @ 12.11 hrs, Volume= 2,073 cf  
 Outflow = 0.17 cfs @ 12.33 hrs, Volume= 2,073 cf, Atten= 75%, Lag= 13.5 min  
 Primary = 0.17 cfs @ 12.33 hrs, Volume= 2,073 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.35' @ 12.33 hrs Surf.Area= 2,400 sf Storage= 792 cf

Plug-Flow detention time= 159.7 min calculated for 2,073 cf (100% of inflow)  
 Center-of-Mass det. time= 159.9 min ( 945.1 - 785.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,258 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,144 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,400	0	0
543.83	2,400	3,144	3,144

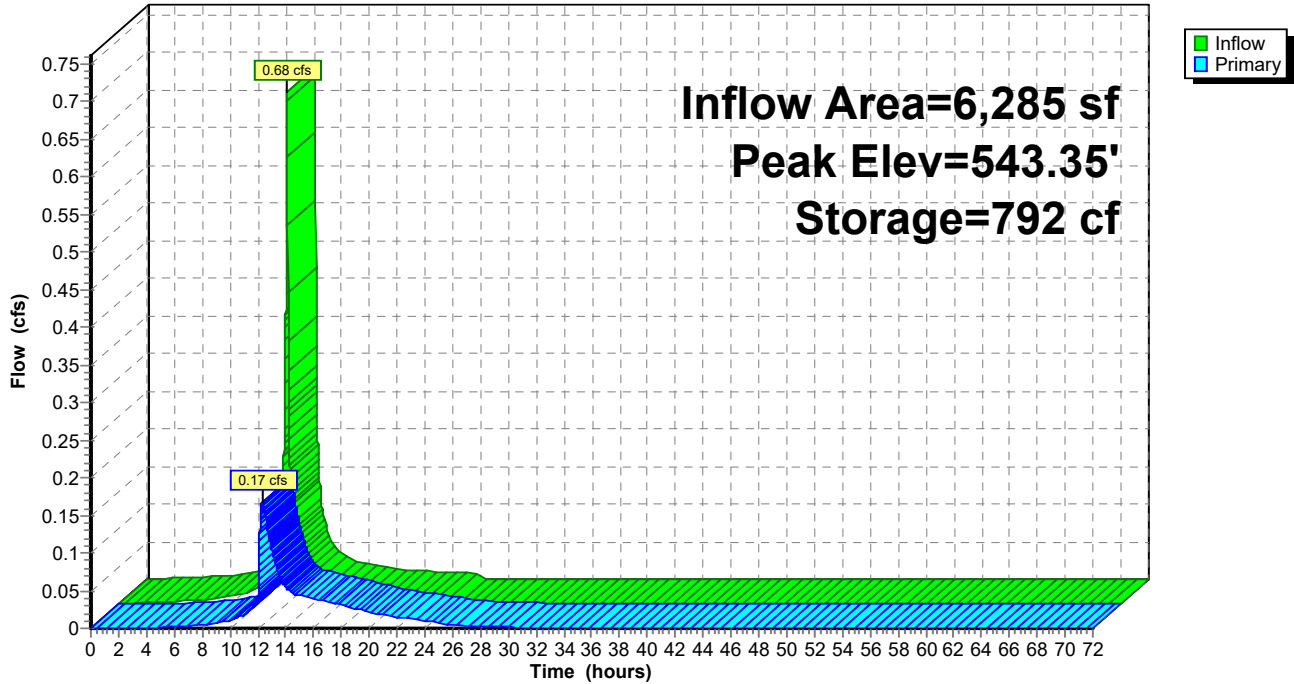
Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.51'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.09'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.17 cfs @ 12.33 hrs HW=543.35' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.17 cfs of 1.14 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.65 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.11 cfs @ 0.65 fps)

### Pond PV-5: Pervious Pavers 5

Hydrograph



**Summary for Pond PV-6: Pervious Pavers 6**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 4.36" for 10-Year event  
 Inflow = 0.59 cfs @ 12.14 hrs, Volume= 2,156 cf  
 Outflow = 0.24 cfs @ 12.30 hrs, Volume= 2,156 cf, Atten= 60%, Lag= 9.5 min  
 Primary = 0.24 cfs @ 12.30 hrs, Volume= 2,156 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.88' @ 12.30 hrs Surf.Area= 1,488 sf Storage= 642 cf

Plug-Flow detention time= 83.3 min calculated for 2,156 cf (100% of inflow)  
 Center-of-Mass det. time= 83.4 min ( 855.2 - 771.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.80'	1,000 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,500 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.80	1,488	0	0
543.48	1,488	2,500	2,500

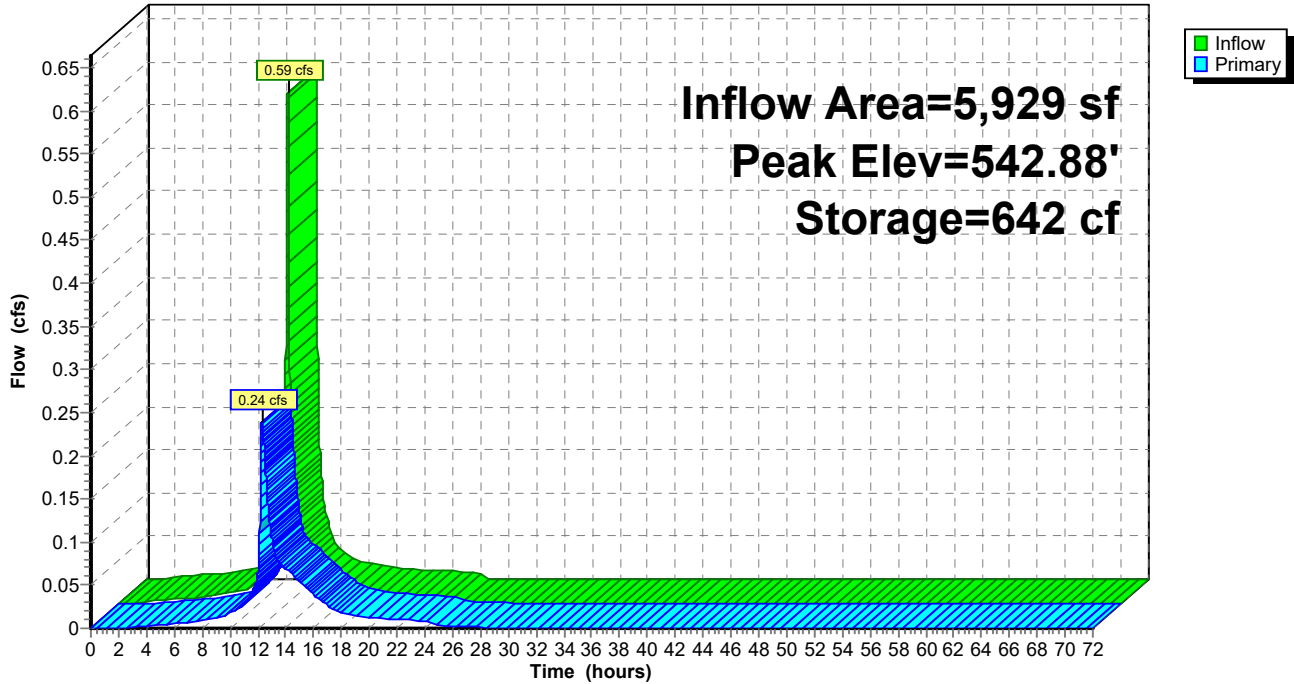
Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.79'	<b>3.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.57'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.24 cfs @ 12.30 hrs HW=542.88' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.24 cfs of 1.26 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.09 cfs @ 1.89 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.15 cfs @ 0.71 fps)

### Pond PV-6: Pervious Pavers 6

Hydrograph



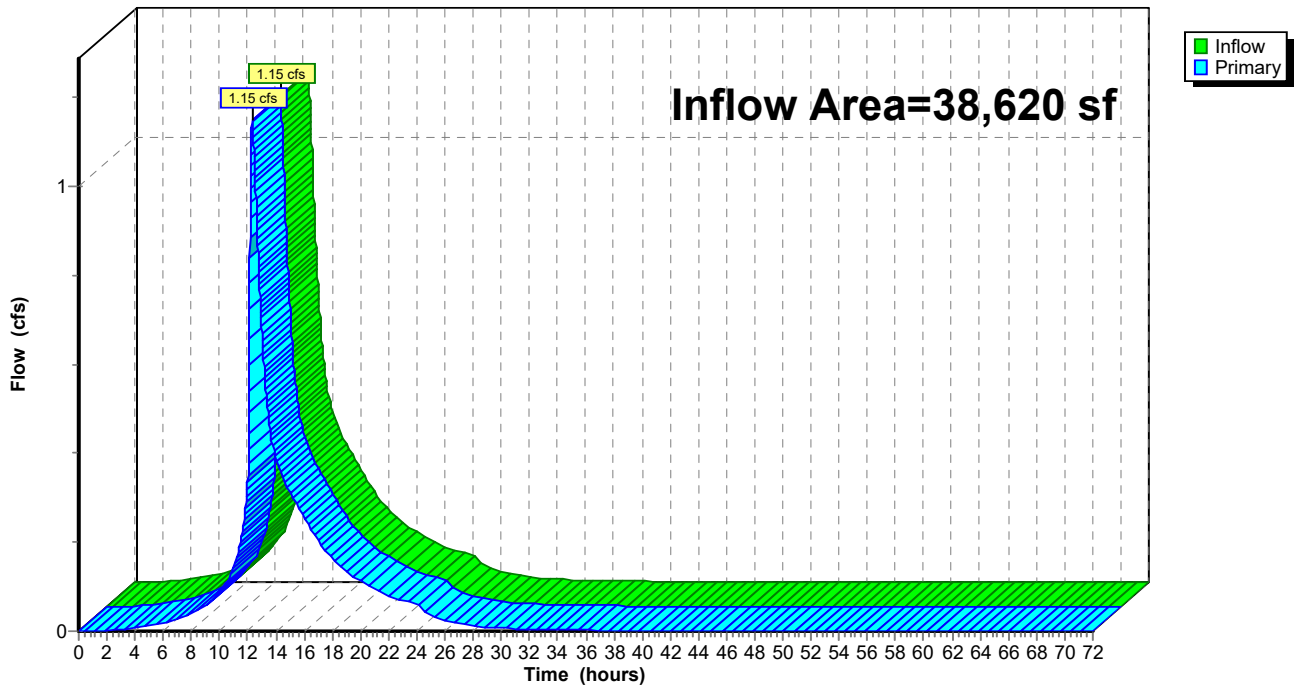
### Summary for Link P-1B: Pavers 1-6

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 4.16" for 10-Year event  
Inflow = 1.15 cfs @ 12.31 hrs, Volume= 13,377 cf  
Primary = 1.15 cfs @ 12.31 hrs, Volume= 13,377 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1B: Pavers 1-6

Hydrograph





**Summary for Subcatchment P-1B-1: Area 1**

Runoff = 1.80 cfs @ 12.10 hrs, Volume= 5,699 cf, Depth= 7.24"  
 Routed to Pond PV-1 : Pervious Pavers 1

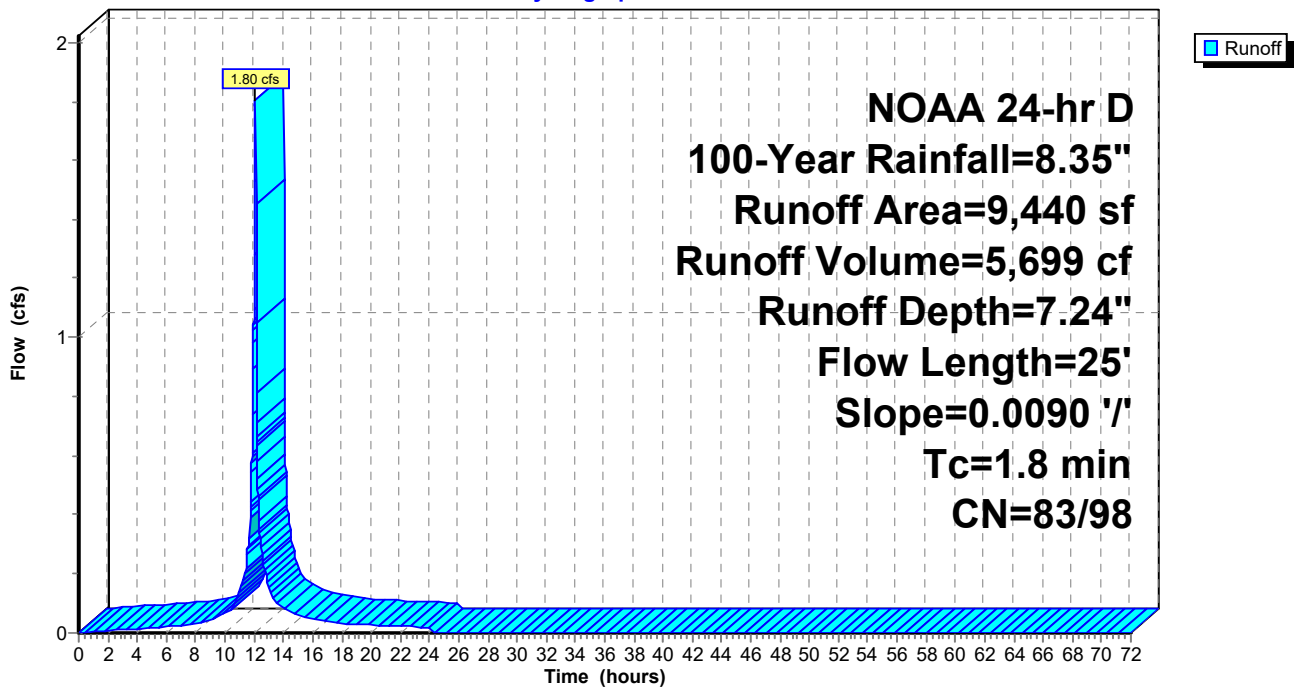
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

**Subcatchment P-1B-1: Area 1**

Hydrograph



**Summary for Subcatchment P-1B-2: Area 2**

Runoff = 0.91 cfs @ 12.10 hrs, Volume= 2,862 cf, Depth= 7.09"  
 Routed to Pond PV-2 : Pervious Pavers 2

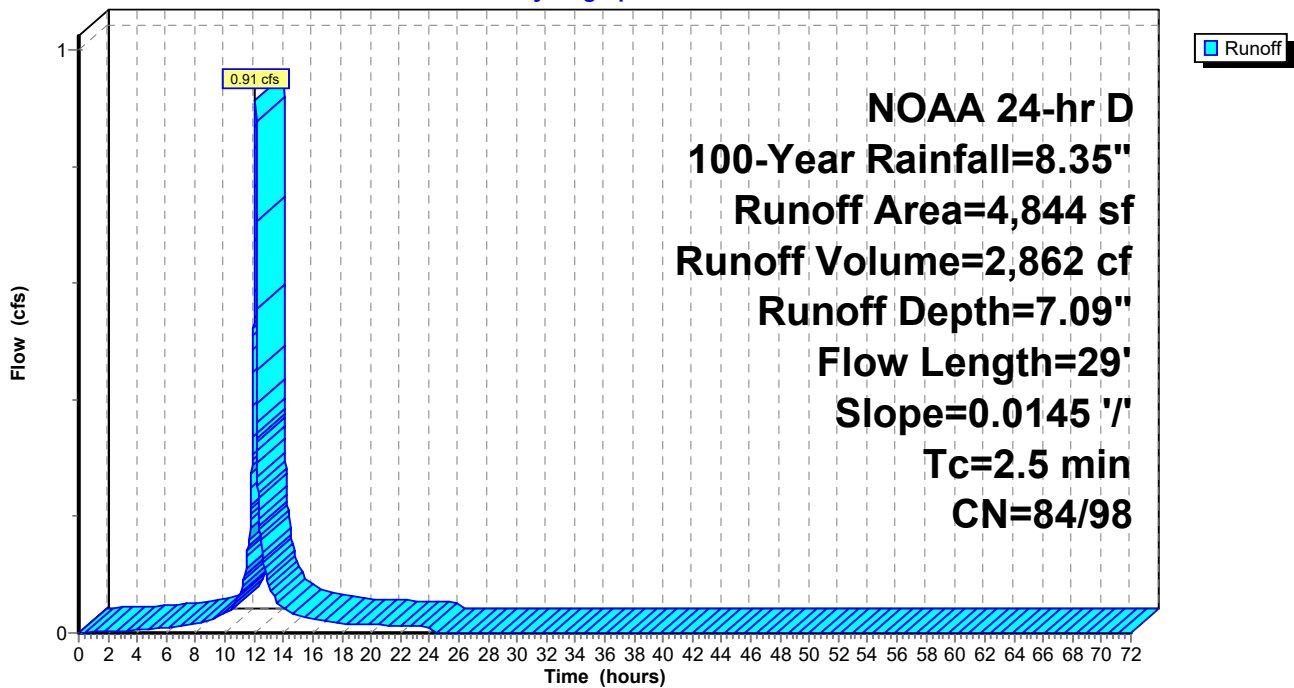
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

**Subcatchment P-1B-2: Area 2**

Hydrograph



**Summary for Subcatchment P-1B-3: Area 3**

Runoff = 1.23 cfs @ 12.11 hrs, Volume= 3,906 cf, Depth= 7.11"  
 Routed to Pond PV-3 : Pervious Pavers 3

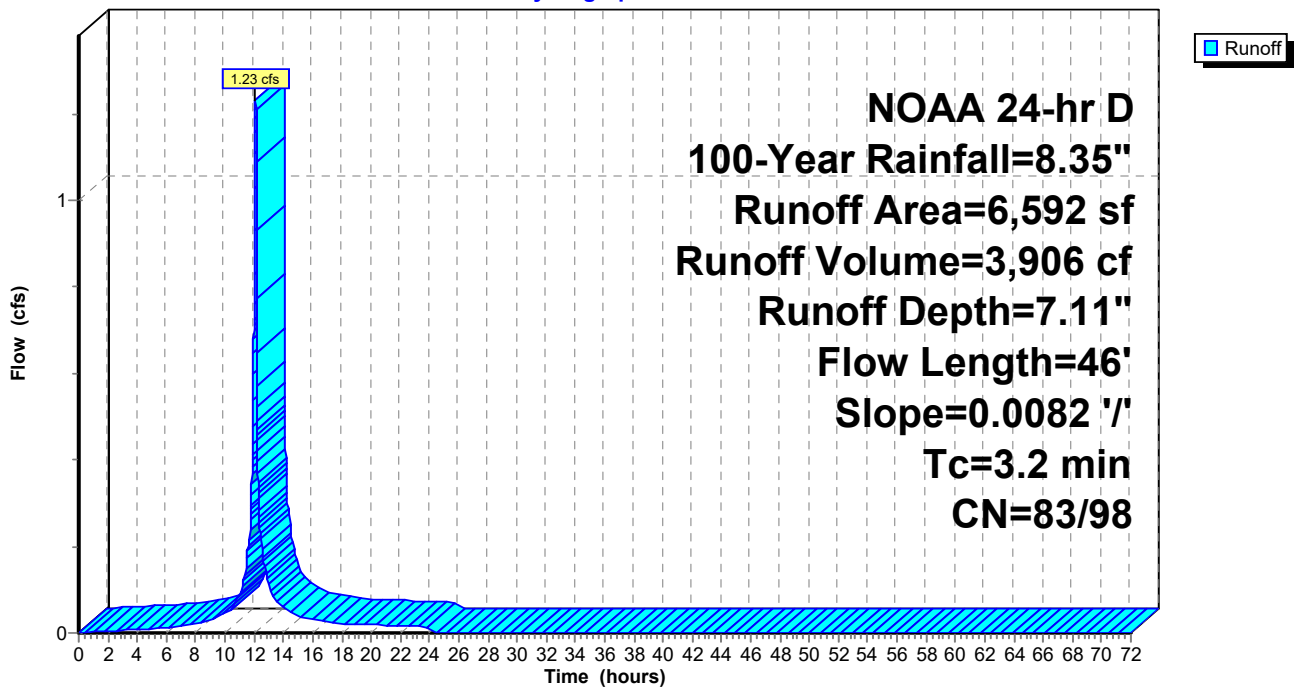
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	917	98	Impervious
*	2,010	98	MVS - Impervious
*	2,400	85	MVS - Pervious Pavers
	1,265	80	>75% Grass cover, Good, HSG D
	6,592	90	Weighted Average
	3,665	83	55.60% Pervious Area
	2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

**Subcatchment P-1B-3: Area 3**

Hydrograph



**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 1.03 cfs @ 12.11 hrs, Volume= 3,306 cf, Depth= 7.17"  
 Routed to Pond PV-4 : Pervious Pavers 4

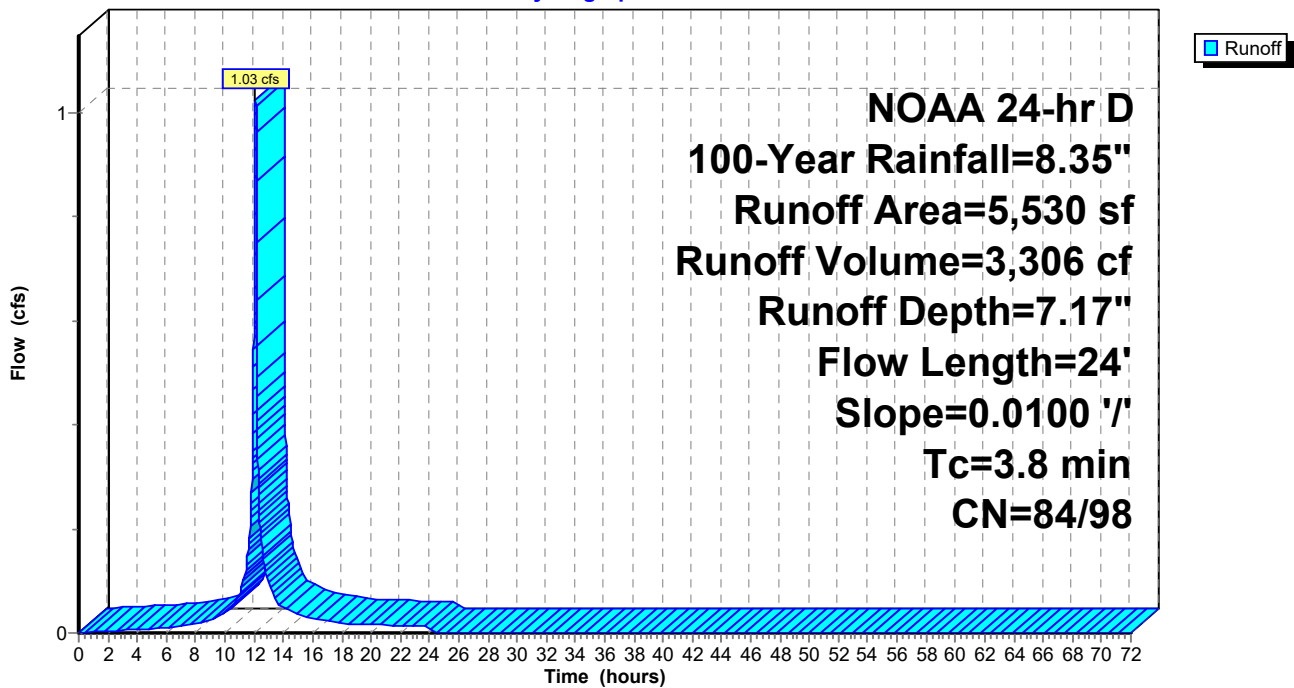
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b>
					Paved Kv= 20.3 fps
3.8	24	Total			

**Subcatchment P-1B-4: Area 4**

Hydrograph



**Summary for Subcatchment P-1B-5: Area 5**

Runoff = 1.16 cfs @ 12.11 hrs, Volume= 3,637 cf, Depth= 6.94"  
 Routed to Pond PV-5 : Pervious Pavers 5

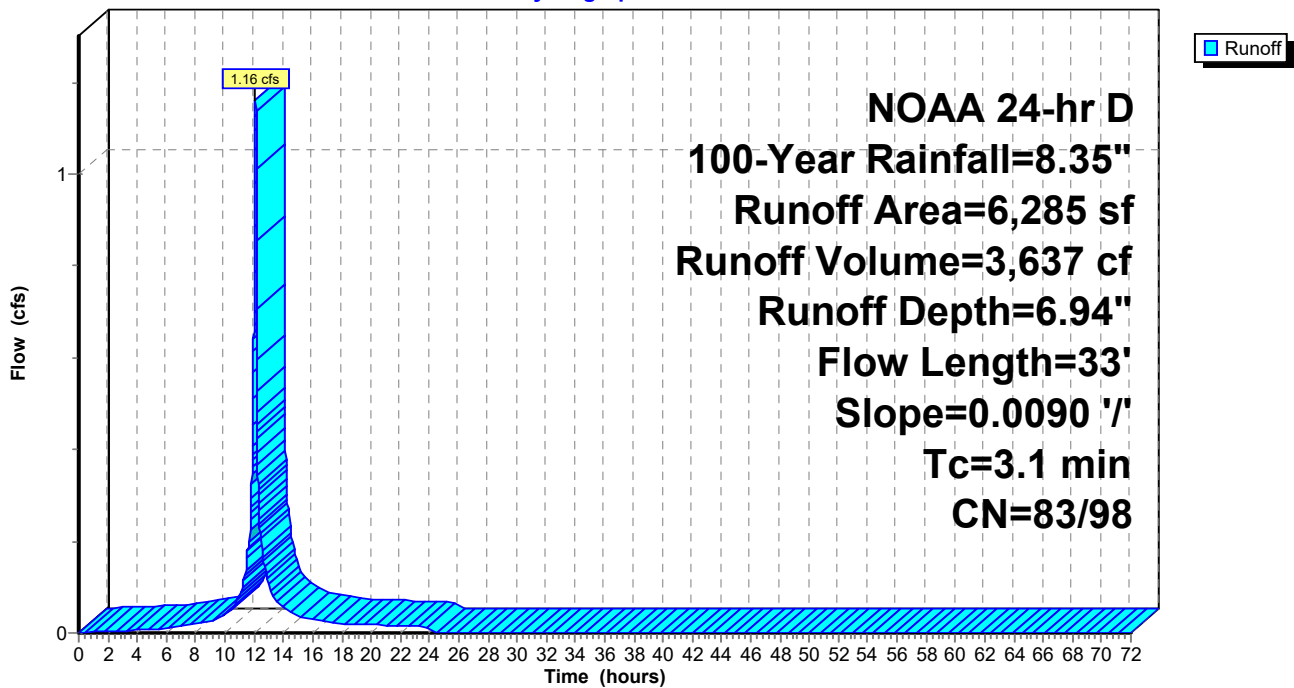
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

**Subcatchment P-1B-5: Area 5**

Hydrograph



### Summary for Subcatchment P-1B-6: Area 6

Runoff = 0.99 cfs @ 12.14 hrs, Volume= 3,655 cf, Depth= 7.40"  
 Routed to Pond PV-6 : Pervious Pavers 6

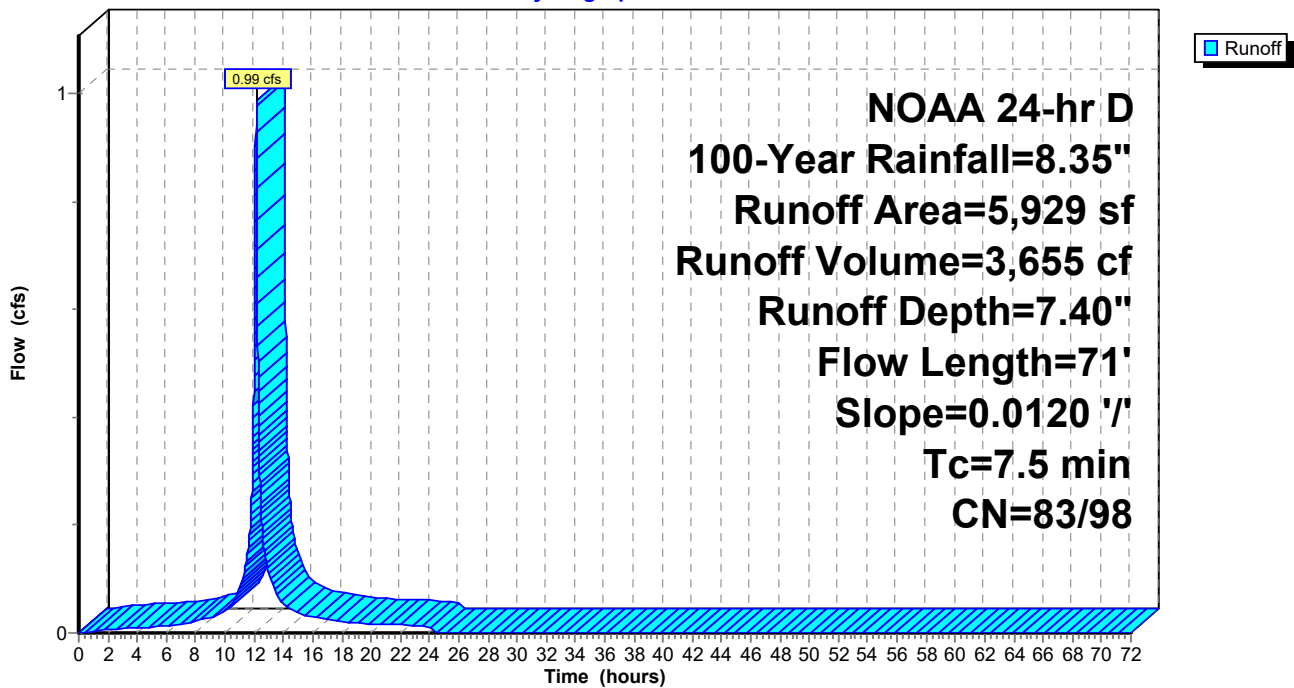
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b>
					Paved Kv= 20.3 fps
7.5	71	Total			

### Subcatchment P-1B-6: Area 6

Hydrograph



### Summary for Pond PV-1: Pervious Pavers 1

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 7.24" for 100-Year event  
 Inflow = 1.80 cfs @ 12.10 hrs, Volume= 5,699 cf  
 Outflow = 0.54 cfs @ 12.23 hrs, Volume= 5,699 cf, Atten= 70%, Lag= 7.6 min  
 Primary = 0.54 cfs @ 12.23 hrs, Volume= 5,699 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.78' @ 12.23 hrs Surf.Area= 3,078 sf Storage= 1,804 cf

Plug-Flow detention time= 95.5 min calculated for 5,699 cf (100% of inflow)  
 Center-of-Mass det. time= 95.8 min ( 857.9 - 762.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.31'	1,871 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,679 cf Overall x 40.0% Voids

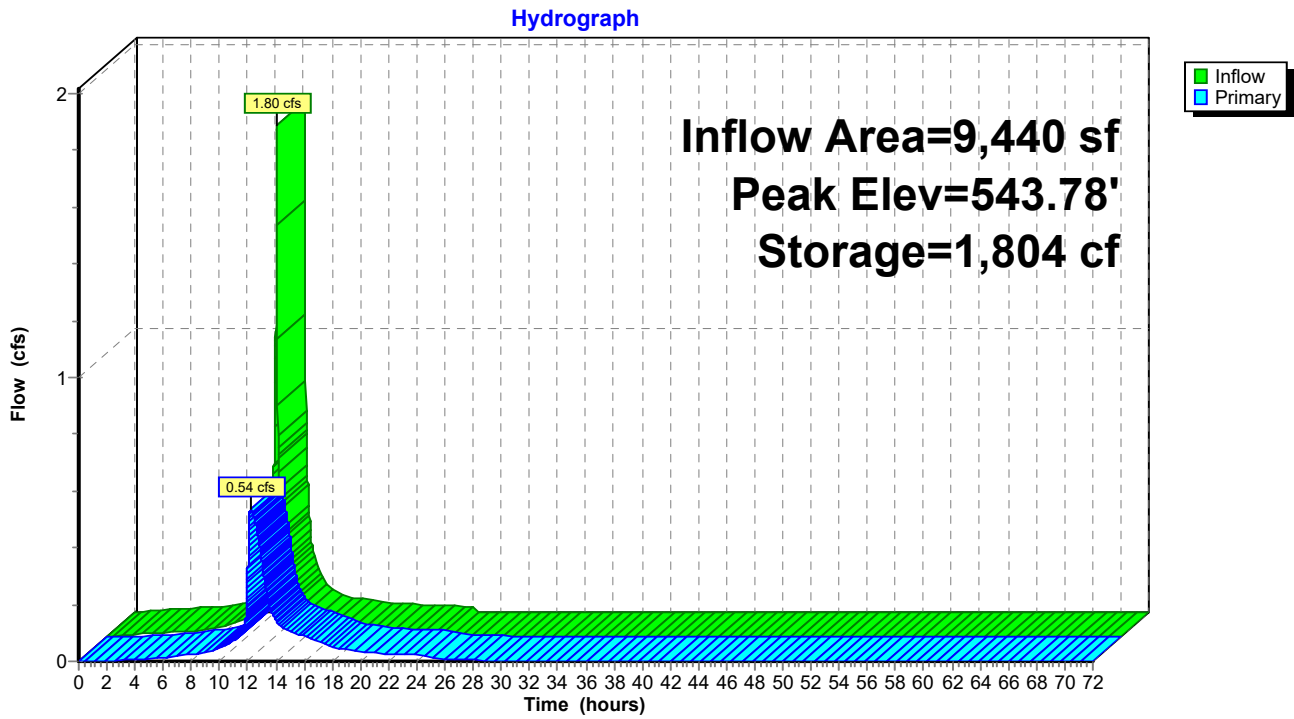
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.31	3,078	0	0
543.83	3,078	4,679	4,679

Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.95'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.54 cfs @ 12.23 hrs HW=543.78' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.54 cfs of 1.15 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.19 cfs @ 2.20 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.35 cfs @ 1.56 fps)

### Pond PV-1: Pervious Pavers 1





**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 7.09" for 100-Year event  
 Inflow = 0.91 cfs @ 12.10 hrs, Volume= 2,862 cf  
 Outflow = 0.33 cfs @ 12.19 hrs, Volume= 2,862 cf, Atten= 63%, Lag= 5.4 min  
 Primary = 0.33 cfs @ 12.19 hrs, Volume= 2,862 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.57' @ 12.19 hrs Surf.Area= 2,214 sf Storage= 931 cf

Plug-Flow detention time= 111.1 min calculated for 2,861 cf (100% of inflow)  
 Center-of-Mass det. time= 111.2 min ( 880.2 - 769.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,072 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,214	0	0
543.73	2,214	2,679	2,679

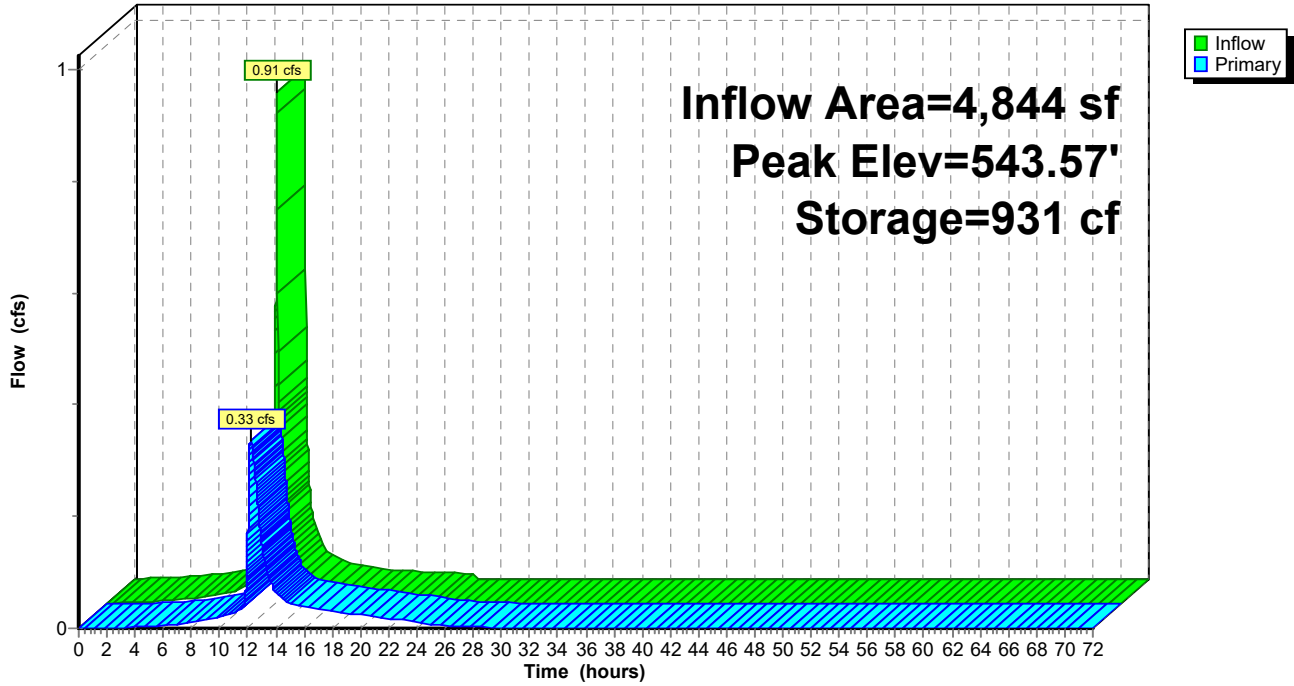
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.00'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.33 cfs @ 12.19 hrs HW=543.57' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.33 cfs of 1.23 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.89 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.27 cfs @ 1.22 fps)

### Pond PV-2: Pervious Pavers 2

Hydrograph



### Summary for Pond PV-3: Pervious Pavers 3

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 7.11" for 100-Year event  
 Inflow = 1.23 cfs @ 12.11 hrs, Volume= 3,906 cf  
 Outflow = 0.40 cfs @ 12.24 hrs, Volume= 3,906 cf, Atten= 67%, Lag= 7.9 min  
 Primary = 0.40 cfs @ 12.24 hrs, Volume= 3,906 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.79' @ 12.24 hrs Surf.Area= 2,400 sf Storage= 1,341 cf

Plug-Flow detention time= 131.7 min calculated for 3,905 cf (100% of inflow)  
 Center-of-Mass det. time= 132.0 min ( 899.7 - 767.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.39'	1,382 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,456 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.39	2,400	0	0
543.83	2,400	3,456	3,456

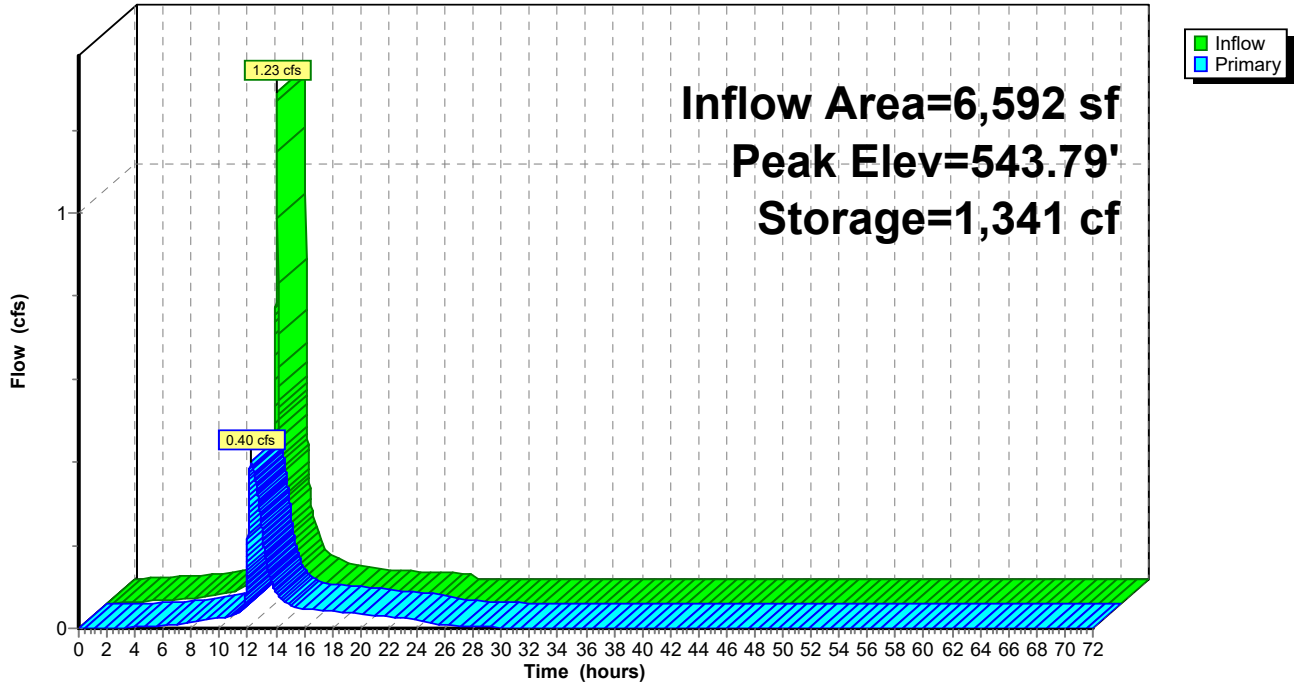
Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.38'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.03'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.40 cfs @ 12.24 hrs HW=543.79' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.40 cfs of 1.24 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.07 cfs @ 2.20 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.33 cfs @ 1.47 fps)

### Pond PV-3: Pervious Pavers 3

Hydrograph



**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 7.17" for 100-Year event  
 Inflow = 1.03 cfs @ 12.11 hrs, Volume= 3,306 cf  
 Outflow = 0.37 cfs @ 12.23 hrs, Volume= 3,306 cf, Atten= 64%, Lag= 7.3 min  
 Primary = 0.37 cfs @ 12.23 hrs, Volume= 3,306 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.64' @ 12.23 hrs Surf.Area= 2,211 sf Storage= 1,091 cf

Plug-Flow detention time= 119.9 min calculated for 3,306 cf (100% of inflow)  
 Center-of-Mass det. time= 120.2 min ( 887.4 - 767.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.41'	1,256 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,140 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.41	2,211	0	0
543.83	2,211	3,140	3,140

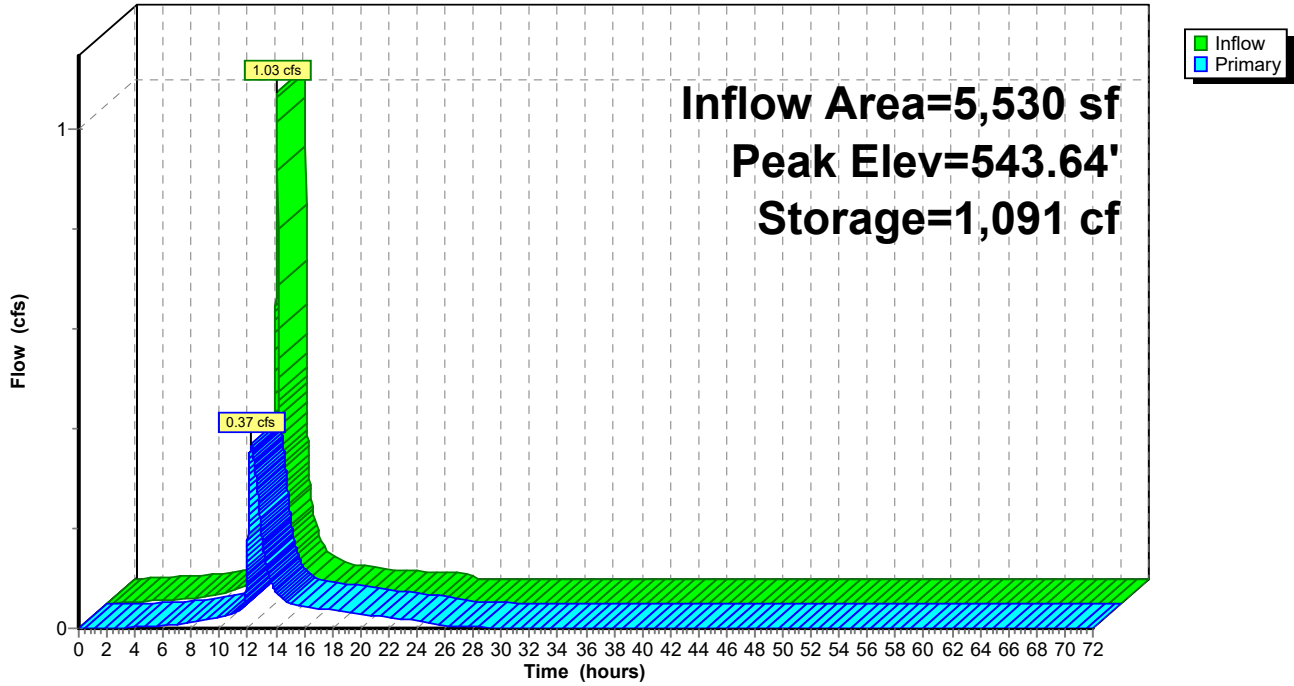
Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.40'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.98'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.37 cfs @ 12.23 hrs HW=543.64' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.37 cfs of 1.52 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.07 cfs @ 2.06 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.30 cfs @ 1.35 fps)

### Pond PV-4: Pervious Pavers 4

Hydrograph



### Summary for Pond PV-5: Pervious Pavers 5

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 6.94" for 100-Year event  
 Inflow = 1.16 cfs @ 12.11 hrs, Volume= 3,637 cf  
 Outflow = 0.39 cfs @ 12.23 hrs, Volume= 3,637 cf, Atten= 67%, Lag= 7.6 min  
 Primary = 0.39 cfs @ 12.23 hrs, Volume= 3,637 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.81' @ 12.23 hrs Surf.Area= 2,400 sf Storage= 1,235 cf

Plug-Flow detention time= 127.3 min calculated for 3,637 cf (100% of inflow)  
 Center-of-Mass det. time= 127.6 min ( 900.8 - 773.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,258 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,144 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,400	0	0
543.83	2,400	3,144	3,144

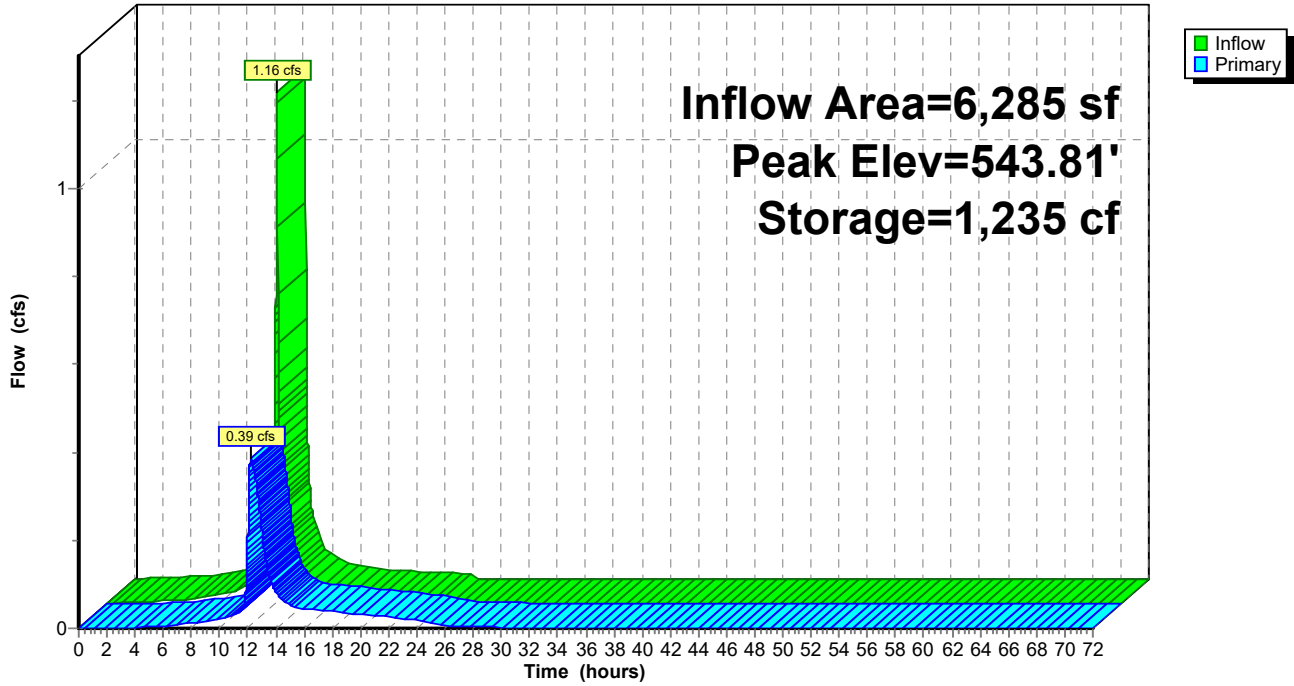
Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.51'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.09'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.39 cfs @ 12.23 hrs HW=543.81' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.39 cfs of 1.31 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.07 cfs @ 2.10 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.32 cfs @ 1.42 fps)

### Pond PV-5: Pervious Pavers 5

Hydrograph





**Summary for Pond PV-6: Pervious Pavers 6**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 7.40" for 100-Year event  
 Inflow = 0.99 cfs @ 12.14 hrs, Volume= 3,655 cf  
 Outflow = 0.47 cfs @ 12.27 hrs, Volume= 3,655 cf, Atten= 53%, Lag= 7.8 min  
 Primary = 0.47 cfs @ 12.27 hrs, Volume= 3,655 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.41' @ 12.27 hrs Surf.Area= 1,488 sf Storage= 957 cf

Plug-Flow detention time= 69.2 min calculated for 3,655 cf (100% of inflow)  
 Center-of-Mass det. time= 69.3 min ( 832.0 - 762.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.80'	1,000 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,500 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.80	1,488	0	0
543.48	1,488	2,500	2,500

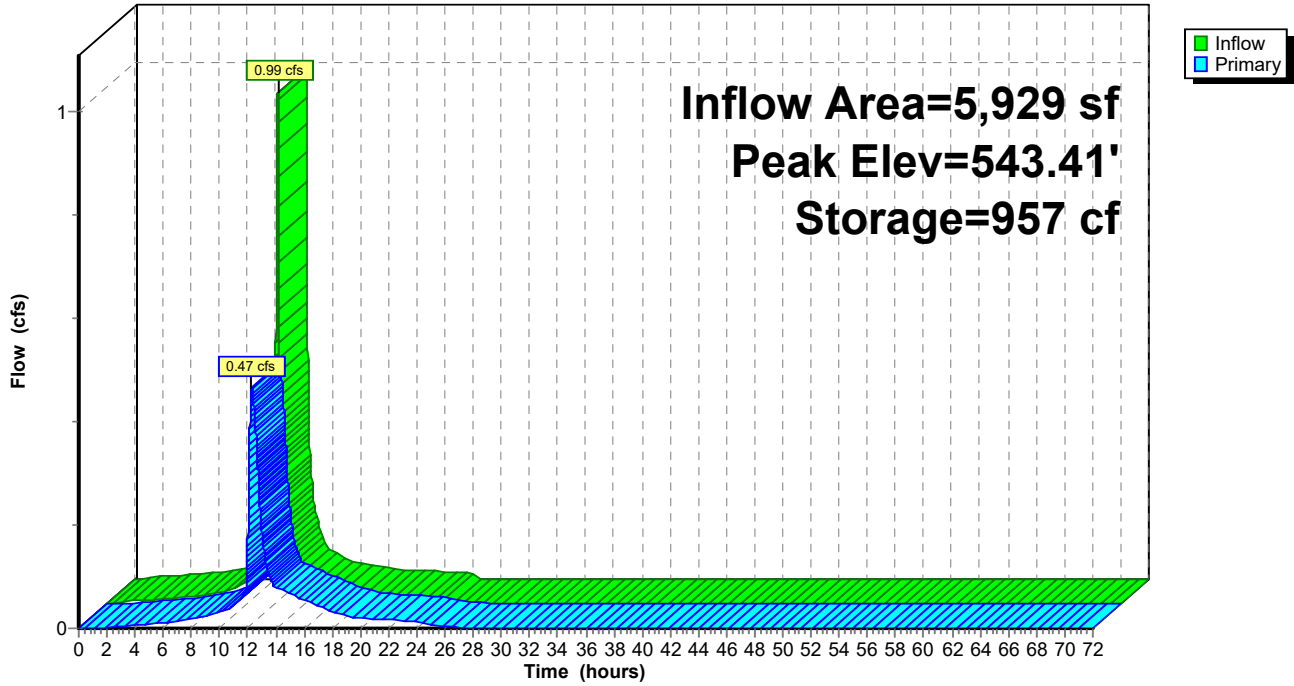
Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.79'	<b>3.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.57'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.47 cfs @ 12.27 hrs HW=543.41' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.47 cfs of 1.43 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.12 cfs @ 2.35 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.35 cfs @ 1.57 fps)

### Pond PV-6: Pervious Pavers 6

Hydrograph



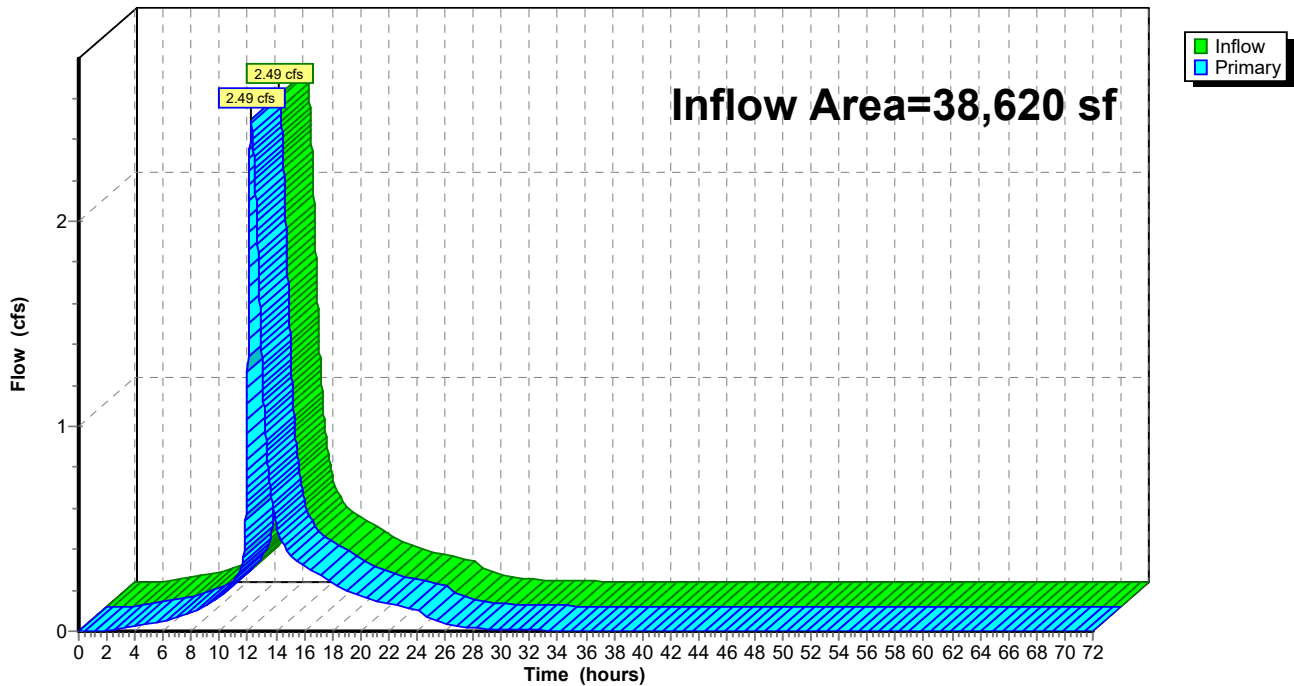
### Summary for Link P-1B: Pavers 1-6

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 7.17" for 100-Year event  
Inflow = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf  
Primary = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1B: Pavers 1-6

Hydrograph



**Summary for Subcatchment P-1C-10: Area 10**

Runoff = 0.69 cfs @ 12.12 hrs, Volume= 2,250 cf, Depth= 2.44"  
 Routed to Pond PV-10 : Pervious Pavers 10

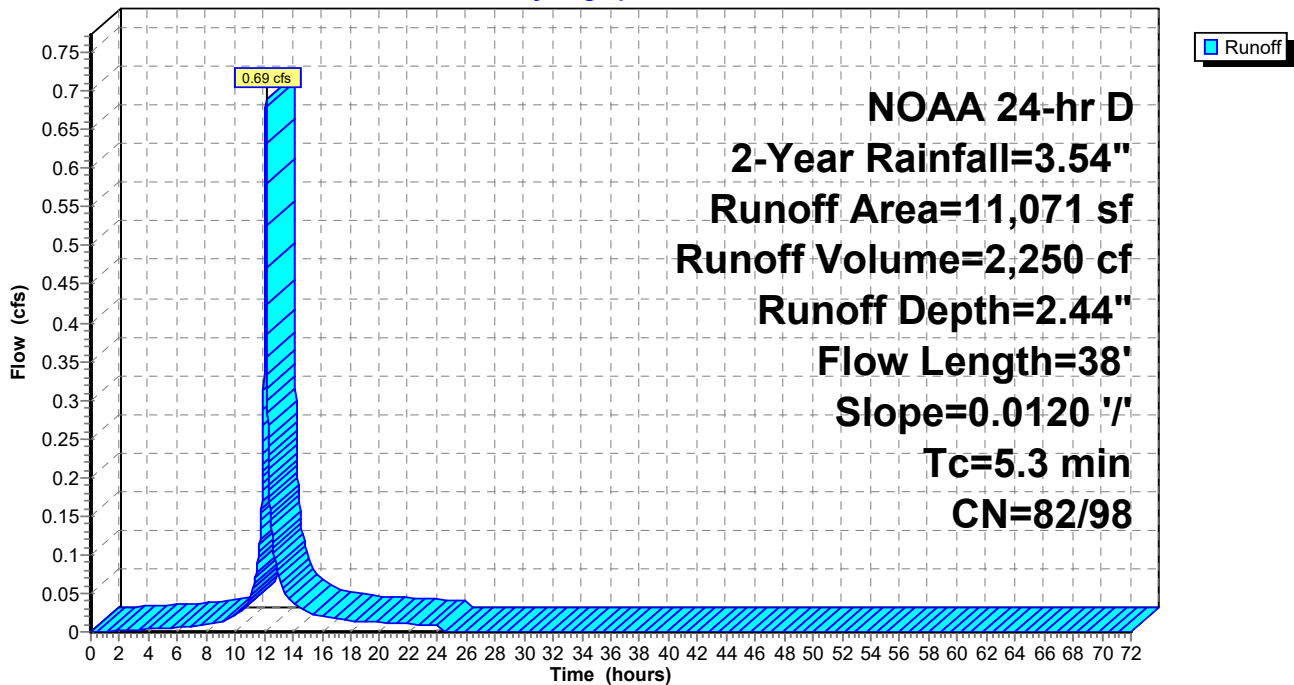
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	716	98	Impervious
*	3,912	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	880	74	>75% Grass cover, Good, HSG C
	1,999	80	>75% Grass cover, Good, HSG D
	11,071	89	Weighted Average
	6,443	82	58.20% Pervious Area
	4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		Sheet Flow, 10c1-10c2 Grass: Short n= 0.150 P2= 3.54"

**Subcatchment P-1C-10: Area 10**

Hydrograph



### Summary for Subcatchment P-1C-11: Area 11

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 0.50 cfs @ 12.10 hrs, Volume= 1,531 cf, Depth= 2.81"  
 Routed to Pond PV-11 : Pervious Pavers 11

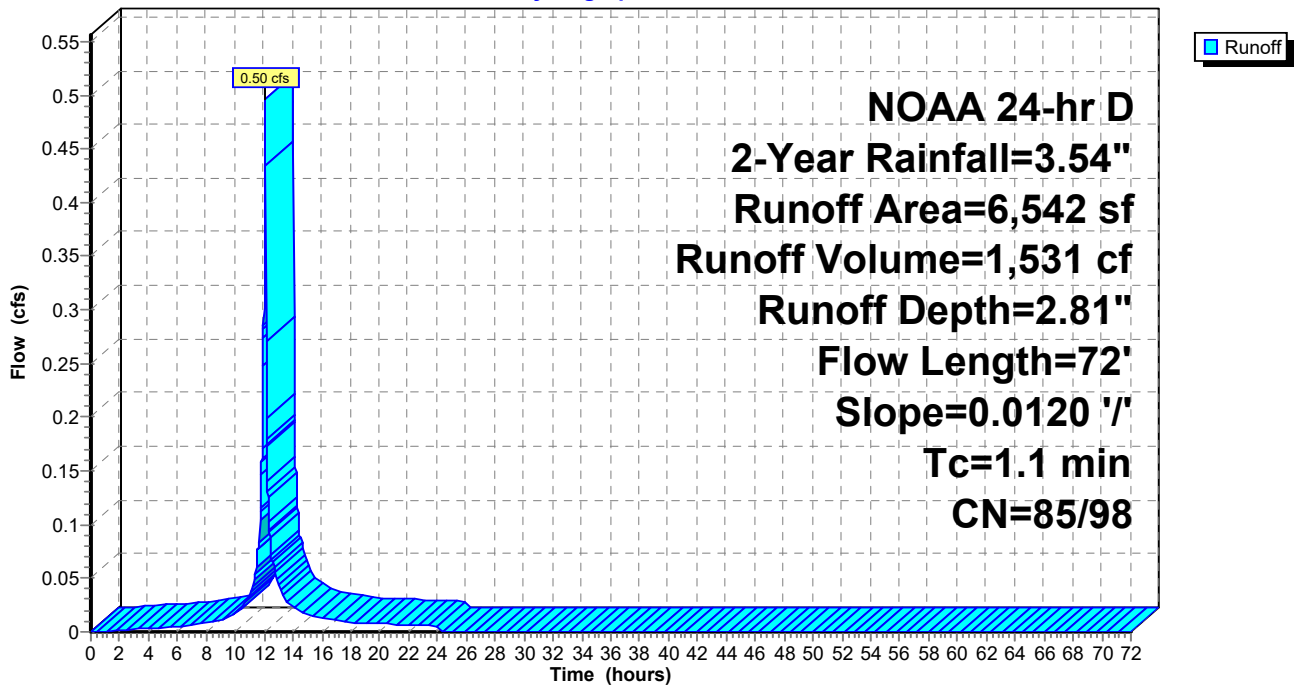
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs,  $dt=0.01$  hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		Sheet Flow, 11c1-11c2 Smooth surfaces n=0.011 P2= 3.54"

### Subcatchment P-1C-11: Area 11

Hydrograph



**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 0.50 cfs @ 12.11 hrs, Volume= 1,569 cf, Depth= 2.70"  
 Routed to Pond PV-7 : Pervious Pavers 7

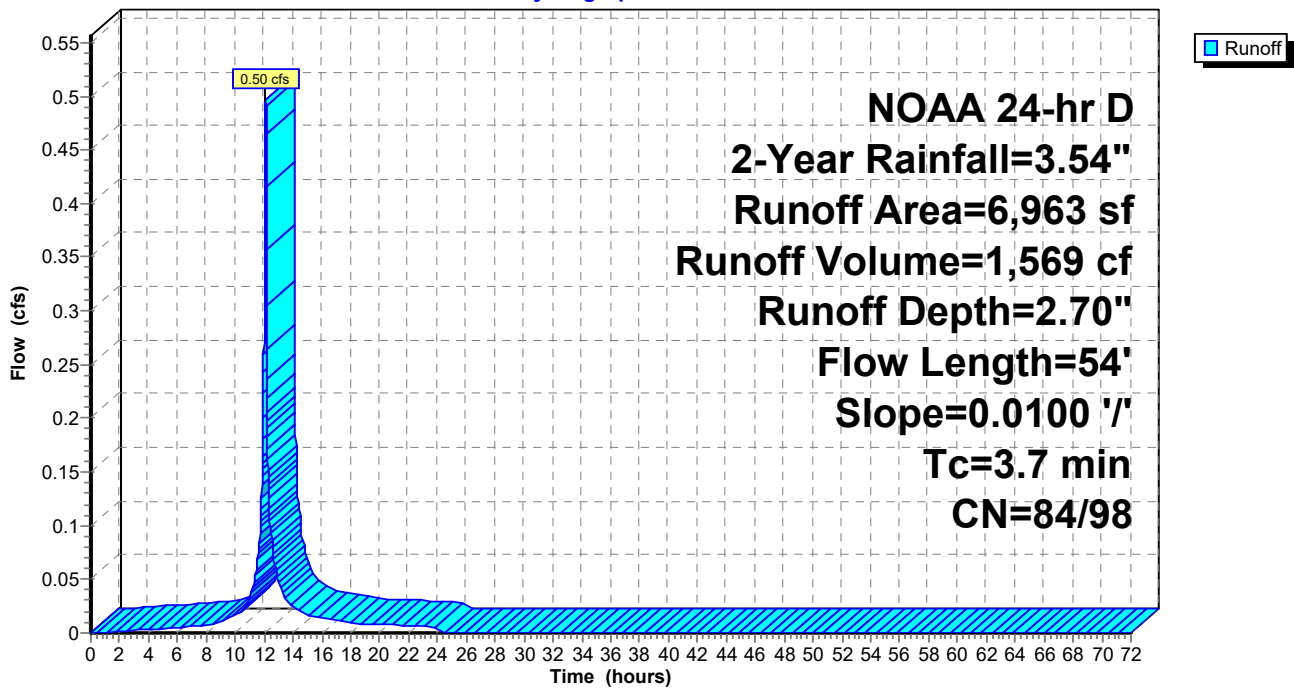
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	226	98	Impervious
*	3,598	98	MVS - Impervious
*	2,430	85	MVS - Pervious Pavers
	709	80	>75% Grass cover, Good, HSG D
	6,963	92	Weighted Average
	3,139	84	45.08% Pervious Area
	3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b>
					Paved Kv= 20.3 fps
3.7	54	Total			

**Subcatchment P-1C-7: Area 7**

Hydrograph



### Summary for Subcatchment P-1C-8: Area 8

Runoff = 0.44 cfs @ 12.10 hrs, Volume= 1,279 cf, Depth= 2.35"  
 Routed to Pond PV-8 : Pervious Pavers 8

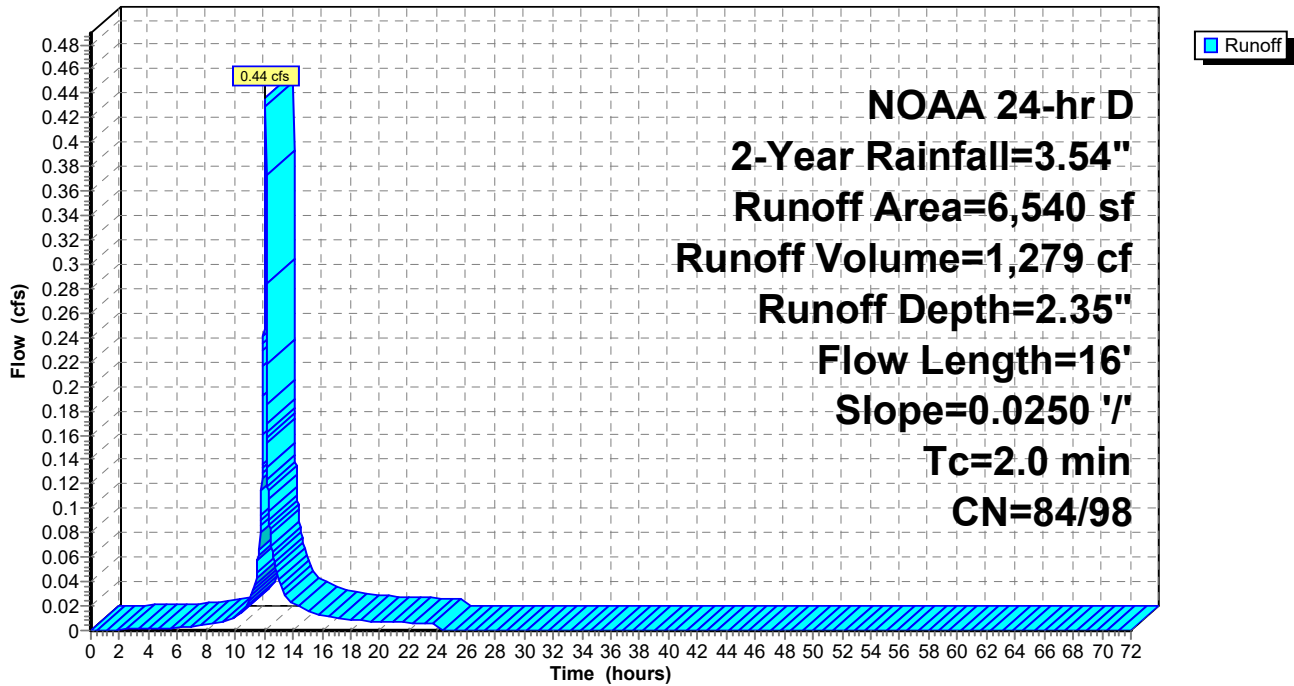
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 8c1-8c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-8: Area 8

Hydrograph



### Summary for Subcatchment P-1C-9: Area 9

Runoff = 0.58 cfs @ 12.10 hrs, Volume= 1,733 cf, Depth= 2.54"  
 Routed to Pond PV-9 : Pervious Pavers 9

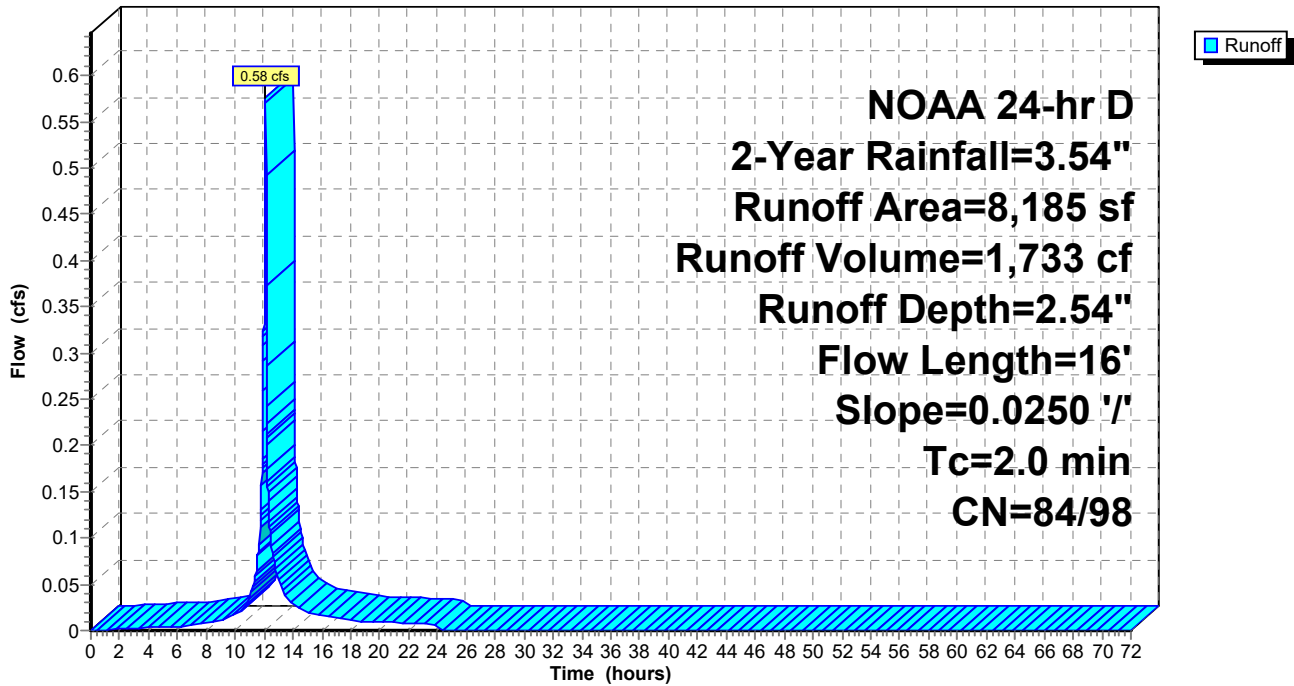
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 9c1-9c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-9: Area 9

Hydrograph





**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 2.44" for 2-Year event  
 Inflow = 0.69 cfs @ 12.12 hrs, Volume= 2,250 cf  
 Outflow = 0.11 cfs @ 12.59 hrs, Volume= 2,250 cf, Atten= 83%, Lag= 27.8 min  
 Primary = 0.11 cfs @ 12.59 hrs, Volume= 2,250 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.62' @ 12.59 hrs Surf.Area= 3,564 sf Storage= 888 cf

Plug-Flow detention time= 154.8 min calculated for 2,250 cf (100% of inflow)  
 Center-of-Mass det. time= 155.0 min ( 947.5 - 792.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.00'	2,252 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,631 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.00	3,564	0	0
544.58	3,564	5,631	5,631

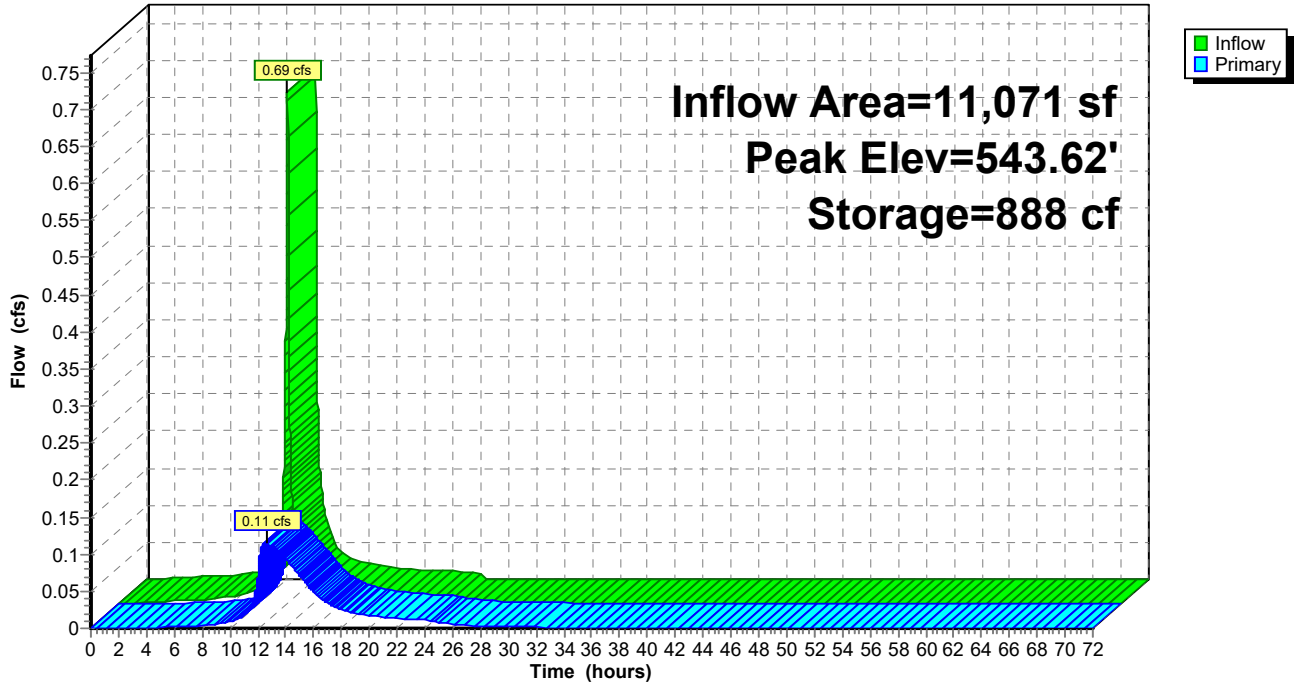
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.99'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.62'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.11 cfs @ 12.59 hrs HW=543.62' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.11 cfs of 1.19 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.11 cfs @ 1.31 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.00 cfs @ 0.07 fps)

### Pond PV-10: Pervious Pavers 10

Hydrograph



**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 2.81" for 2-Year event  
 Inflow = 0.50 cfs @ 12.10 hrs, Volume= 1,531 cf  
 Outflow = 0.05 cfs @ 12.91 hrs, Volume= 1,531 cf, Atten= 90%, Lag= 48.5 min  
 Primary = 0.05 cfs @ 12.91 hrs, Volume= 1,531 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Starting Elev= 543.50' Storage= 0 cf  
 Peak Elev= 544.30' @ 12.91 hrs Surf.Area= 2,592 sf Storage= 697 cf

Plug-Flow detention time= 210.9 min calculated for 1,531 cf (100% of inflow)  
 Center-of-Mass det. time= 211.2 min ( 984.3 - 773.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.63'	2,592 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,480 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.63	2,592	0	0
546.13	2,592	6,480	6,480

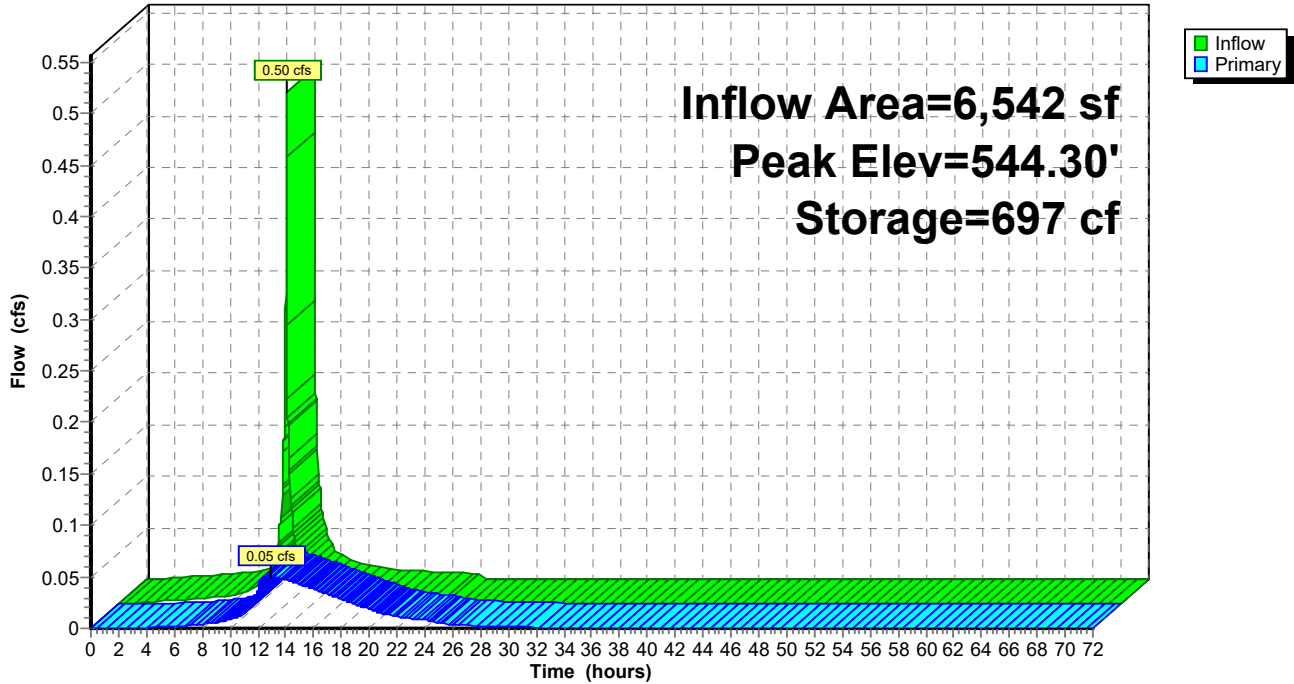
Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.62'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	544.30'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 12.91 hrs HW=544.30' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.05 cfs of 1.08 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.46 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.00 cfs @ 0.06 fps)

### Pond PV-11: Pervious Pavers 11

Hydrograph



**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 2.70" for 2-Year event  
 Inflow = 0.50 cfs @ 12.11 hrs, Volume= 1,569 cf  
 Outflow = 0.05 cfs @ 12.94 hrs, Volume= 1,569 cf, Atten= 90%, Lag= 49.7 min  
 Primary = 0.05 cfs @ 12.94 hrs, Volume= 1,569 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.22' @ 12.94 hrs Surf.Area= 2,430 sf Storage= 702 cf

Plug-Flow detention time= 200.0 min calculated for 1,569 cf (100% of inflow)  
 Center-of-Mass det. time= 200.2 min ( 979.9 - 779.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.50'	1,633 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,082 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.50	2,430	0	0
544.18	2,430	4,082	4,082

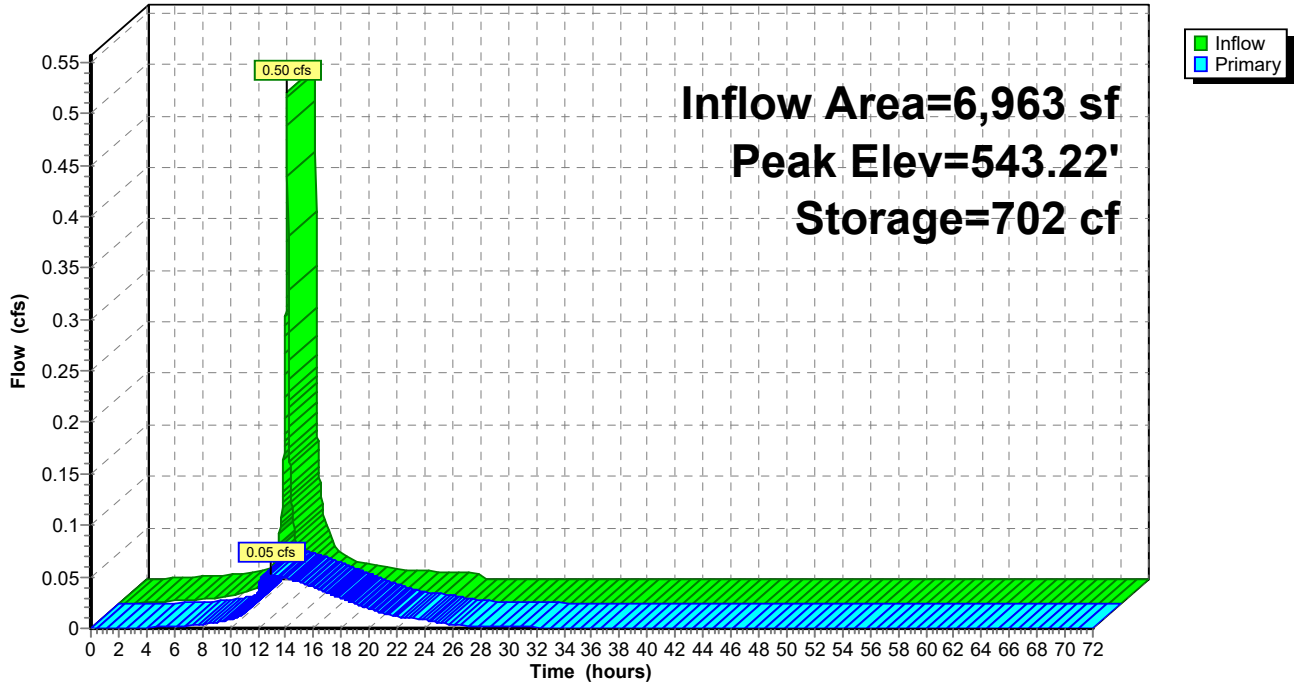
Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.49'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.25'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 12.94 hrs HW=543.22' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.05 cfs of 1.33 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.53 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-7: Pervious Pavers 7

Hydrograph



**Summary for Pond PV-8: Pervious Pavers 8**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 2.35" for 2-Year event  
 Inflow = 0.44 cfs @ 12.10 hrs, Volume= 1,279 cf  
 Outflow = 0.04 cfs @ 13.05 hrs, Volume= 1,279 cf, Atten= 91%, Lag= 56.9 min  
 Primary = 0.04 cfs @ 13.05 hrs, Volume= 1,279 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.98' @ 13.05 hrs Surf.Area= 3,564 sf Storage= 628 cf

Plug-Flow detention time= 278.8 min calculated for 1,279 cf (100% of inflow)  
 Center-of-Mass det. time= 279.1 min ( 1,078.8 - 799.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.54'	1,483 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,707 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.54	3,564	0	0
544.58	3,564	3,707	3,707

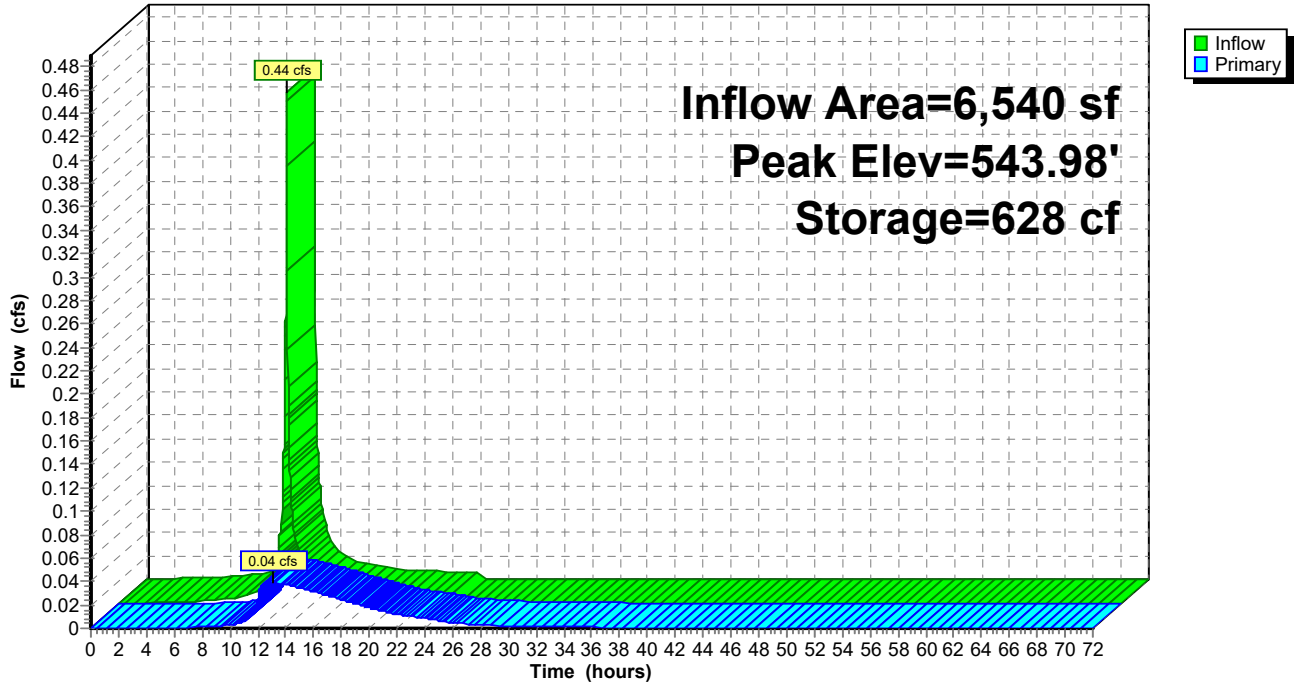
Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.53'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.99'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.04 cfs @ 13.05 hrs HW=543.98' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.04 cfs of 1.48 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.04 cfs @ 1.13 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-8: Pervious Pavers 8

Hydrograph





**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 2.54" for 2-Year event  
 Inflow = 0.58 cfs @ 12.10 hrs, Volume= 1,733 cf  
 Outflow = 0.05 cfs @ 13.13 hrs, Volume= 1,733 cf, Atten= 92%, Lag= 62.2 min  
 Primary = 0.05 cfs @ 13.13 hrs, Volume= 1,733 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.73' @ 13.13 hrs Surf.Area= 3,564 sf Storage= 851 cf

Plug-Flow detention time= 263.4 min calculated for 1,733 cf (100% of inflow)  
 Center-of-Mass det. time= 263.5 min ( 1,050.7 - 787.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.13'	2,067 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,168 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.13	3,564	0	0
544.58	3,564	5,168	5,168

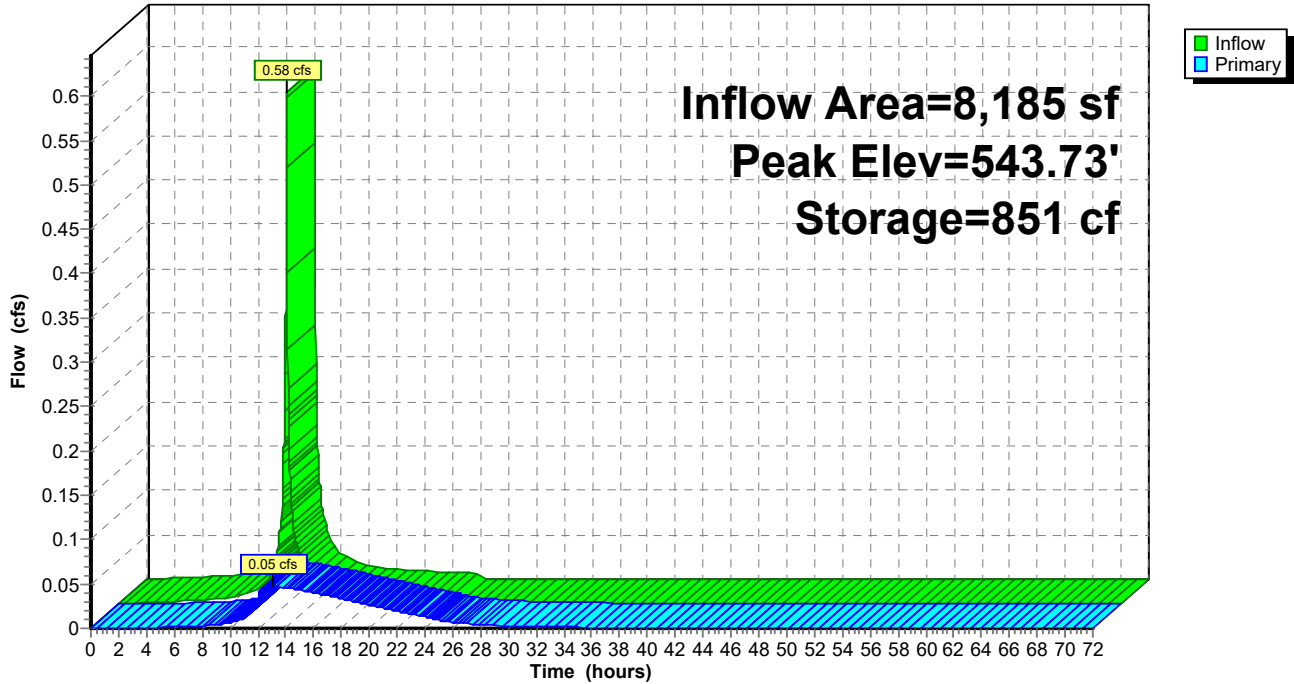
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.11'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.75'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.05 cfs @ 13.13 hrs HW=543.73' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.05 cfs of 1.22 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.38 fps)
- ↑ 3=Control Orifice ( Controls 0.00 cfs)

### Pond PV-9: Pervious Pavers 9

Hydrograph



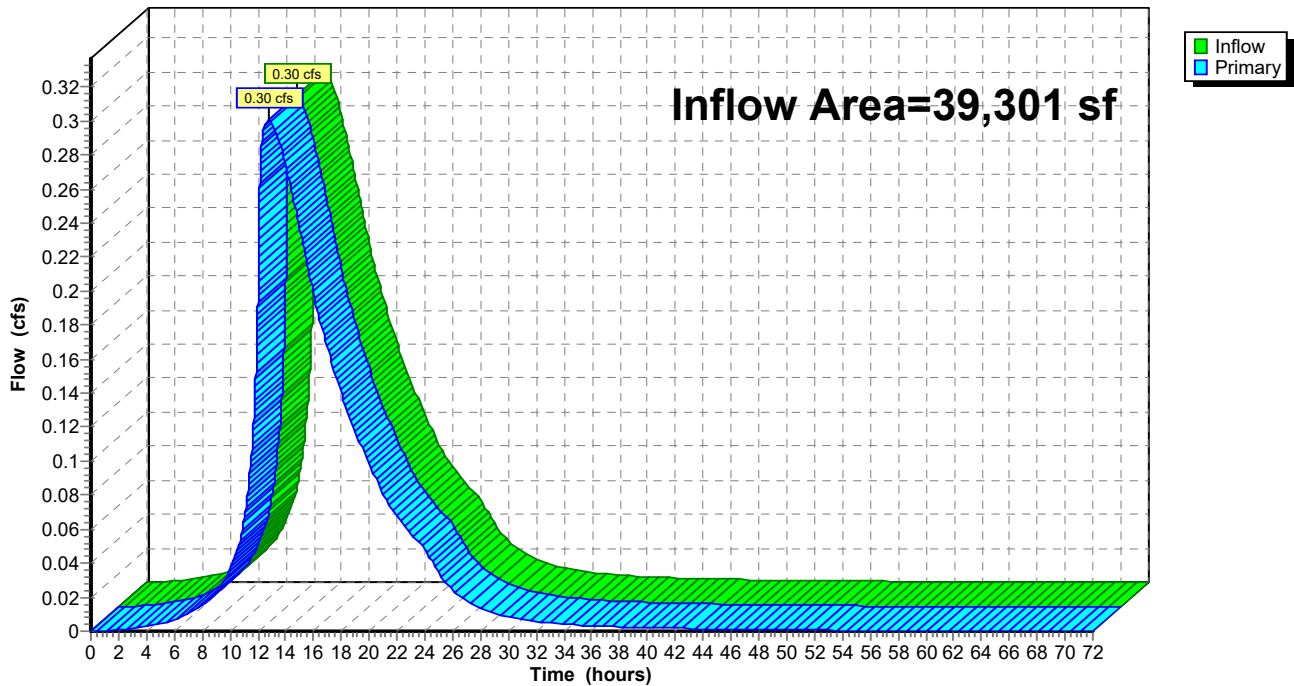
### Summary for Link P-1C: Proposed Pavers 7-11

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 2.55" for 2-Year event  
Inflow = 0.30 cfs @ 12.78 hrs, Volume= 8,363 cf  
Primary = 0.30 cfs @ 12.78 hrs, Volume= 8,363 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1C: Proposed Pavers 7-11

Hydrograph



**Summary for Subcatchment P-1C-10: Area 10**

Runoff = 1.12 cfs @ 12.12 hrs, Volume= 3,698 cf, Depth= 4.01"  
 Routed to Pond PV-10 : Pervious Pavers 10

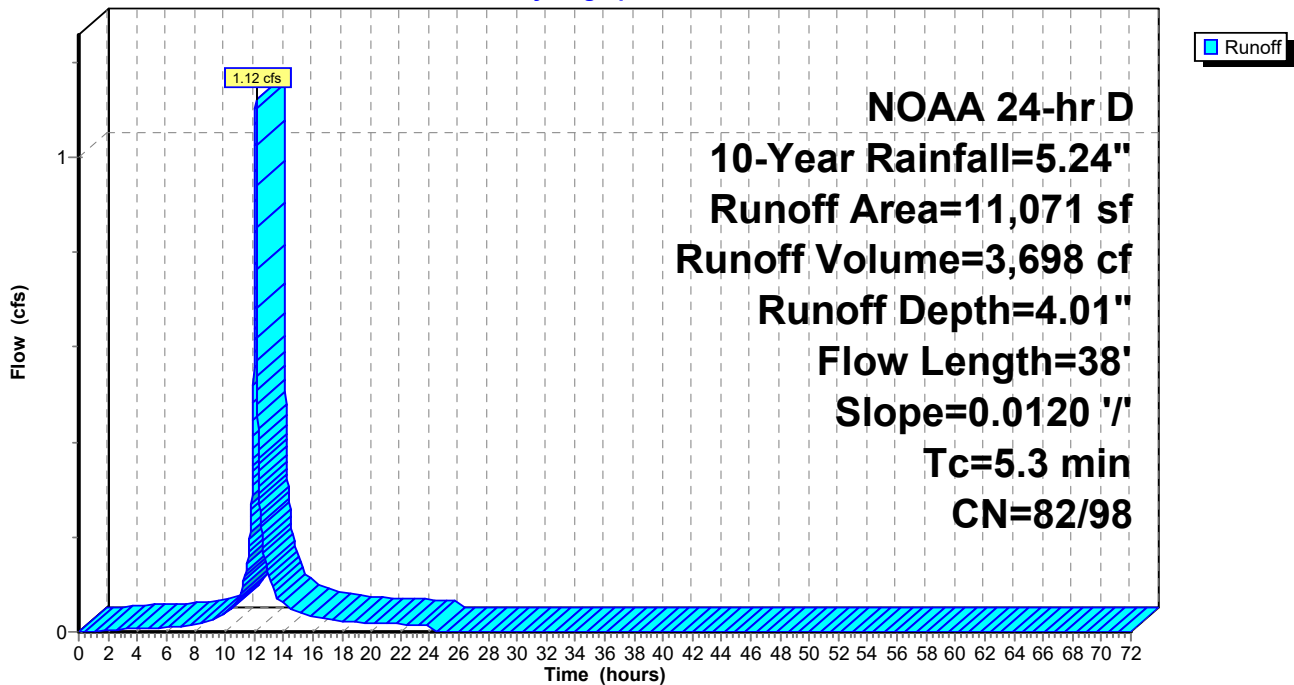
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	716	98	Impervious
*	3,912	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	880	74	>75% Grass cover, Good, HSG C
	1,999	80	>75% Grass cover, Good, HSG D
	11,071	89	Weighted Average
	6,443	82	58.20% Pervious Area
	4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		<b>Sheet Flow, 10c1-10c2</b> Grass: Short n= 0.150 P2= 3.54"

**Subcatchment P-1C-10: Area 10**

Hydrograph



### Summary for Subcatchment P-1C-11: Area 11

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

Runoff = 0.77 cfs @ 12.10 hrs, Volume= 2,422 cf, Depth= 4.44"  
 Routed to Pond PV-11 : Pervious Pavers 11

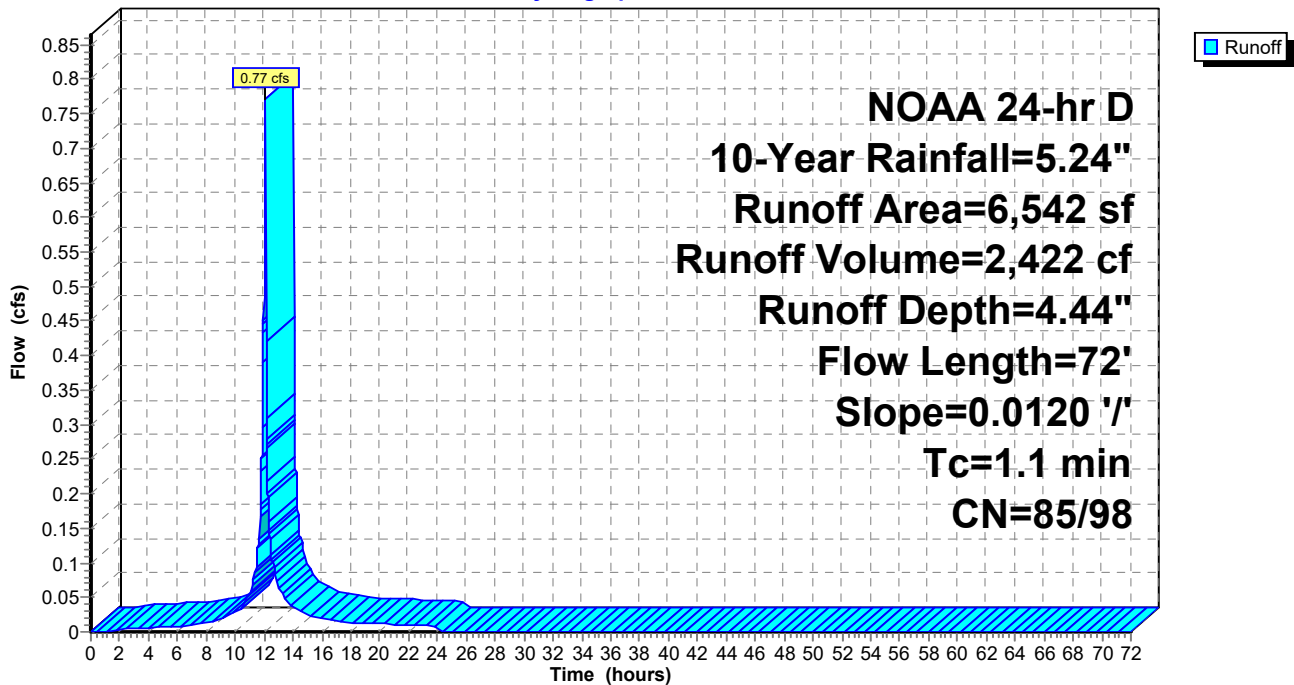
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
<hr/>			
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		<b>Sheet Flow, 11c1-11c2</b> Smooth surfaces n= 0.011 P2= 3.54"

### Subcatchment P-1C-11: Area 11

Hydrograph



**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 0.78 cfs @ 12.11 hrs, Volume= 2,507 cf, Depth= 4.32"  
 Routed to Pond PV-7 : Pervious Pavers 7

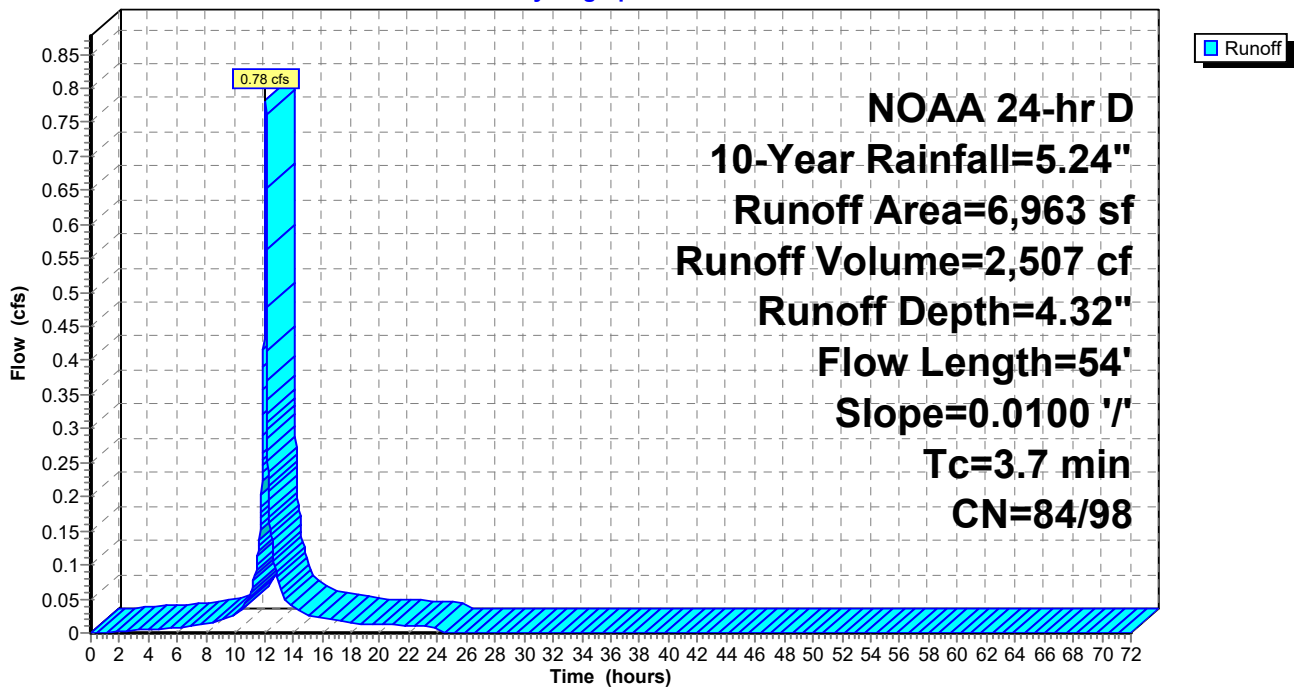
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	226	98	Impervious
*	3,598	98	MVS - Impervious
*	2,430	85	MVS - Pervious Pavers
	709	80	>75% Grass cover, Good, HSG D
	6,963	92	Weighted Average
	3,139	84	45.08% Pervious Area
	3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b>
					Paved Kv= 20.3 fps
3.7	54	Total			

**Subcatchment P-1C-7: Area 7**

Hydrograph



### Summary for Subcatchment P-1C-8: Area 8

Runoff = 0.72 cfs @ 12.10 hrs, Volume= 2,134 cf, Depth= 3.92"  
 Routed to Pond PV-8 : Pervious Pavers 8

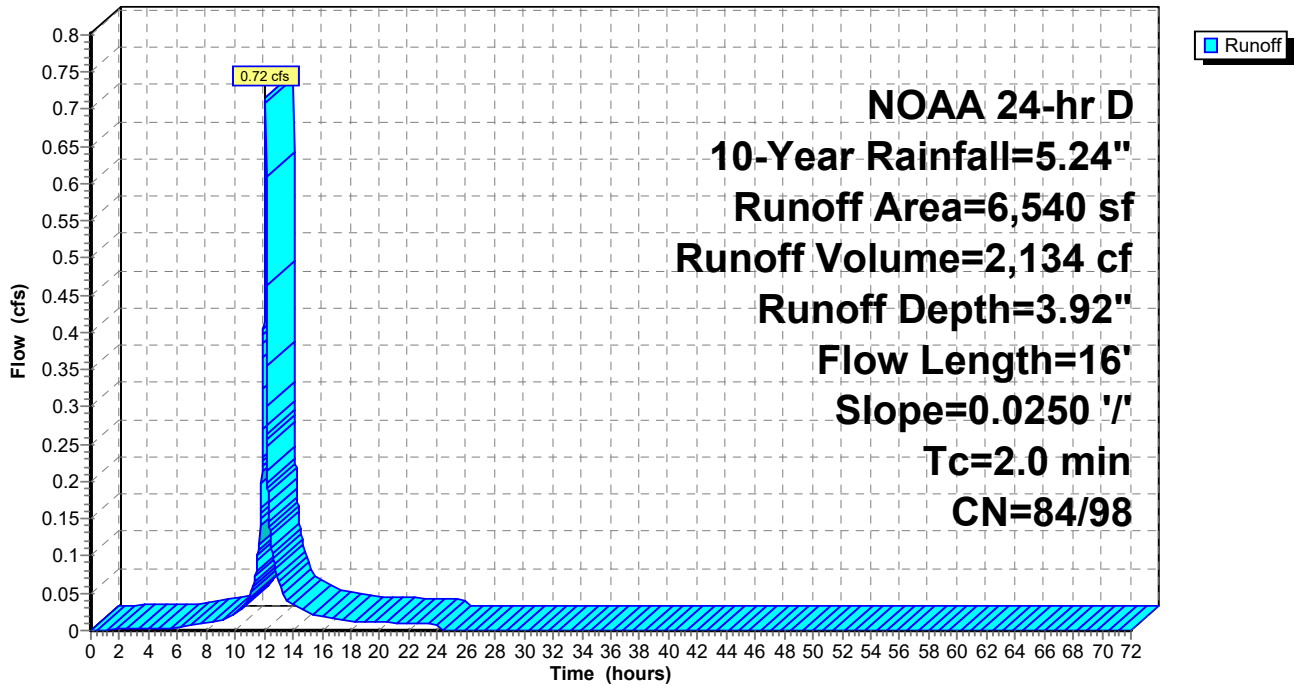
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 8c1-8c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-8: Area 8

Hydrograph



### Summary for Subcatchment P-1C-9: Area 9

Runoff = 0.92 cfs @ 12.10 hrs, Volume= 2,821 cf, Depth= 4.14"  
 Routed to Pond PV-9 : Pervious Pavers 9

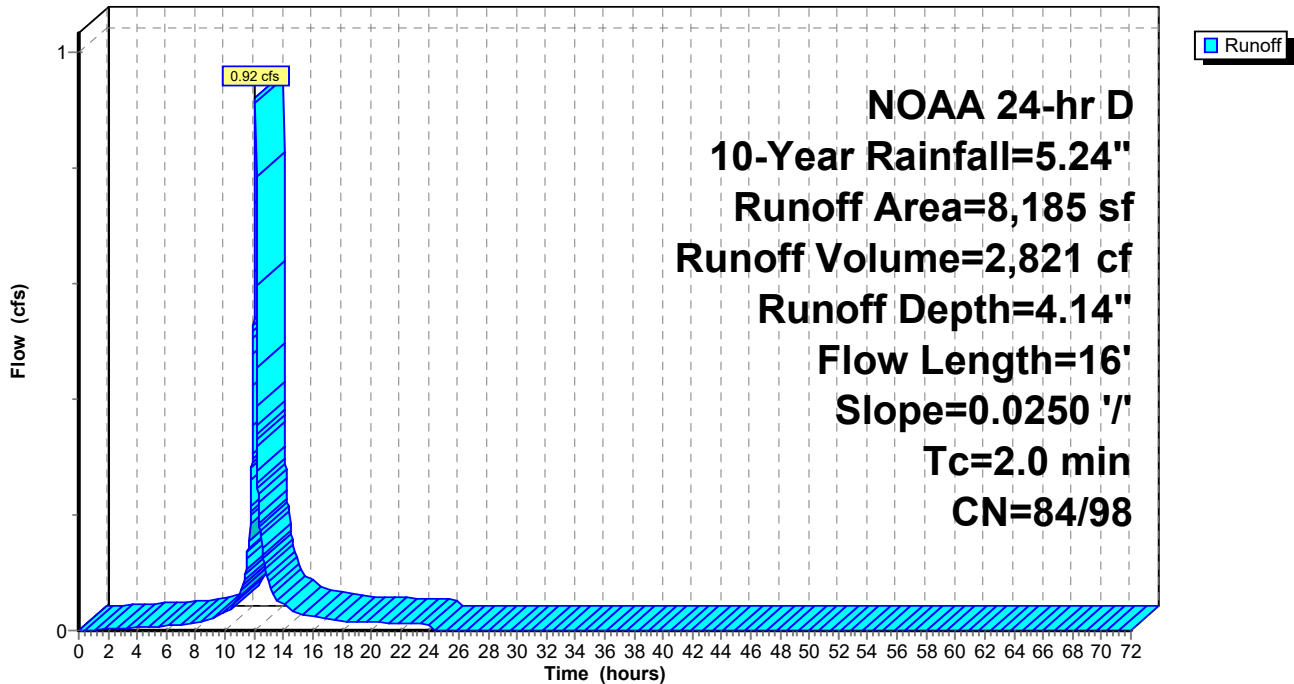
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 9c1-9c2</b> Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-9: Area 9

Hydrograph





**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 4.01" for 10-Year event  
 Inflow = 1.12 cfs @ 12.12 hrs, Volume= 3,698 cf  
 Outflow = 0.30 cfs @ 12.36 hrs, Volume= 3,698 cf, Atten= 74%, Lag= 14.0 min  
 Primary = 0.30 cfs @ 12.36 hrs, Volume= 3,698 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.93' @ 12.36 hrs Surf.Area= 3,564 sf Storage= 1,326 cf

Plug-Flow detention time= 130.3 min calculated for 3,698 cf (100% of inflow)  
 Center-of-Mass det. time= 130.5 min ( 913.8 - 783.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.00'	2,252 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,631 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.00	3,564	0	0
544.58	3,564	5,631	5,631

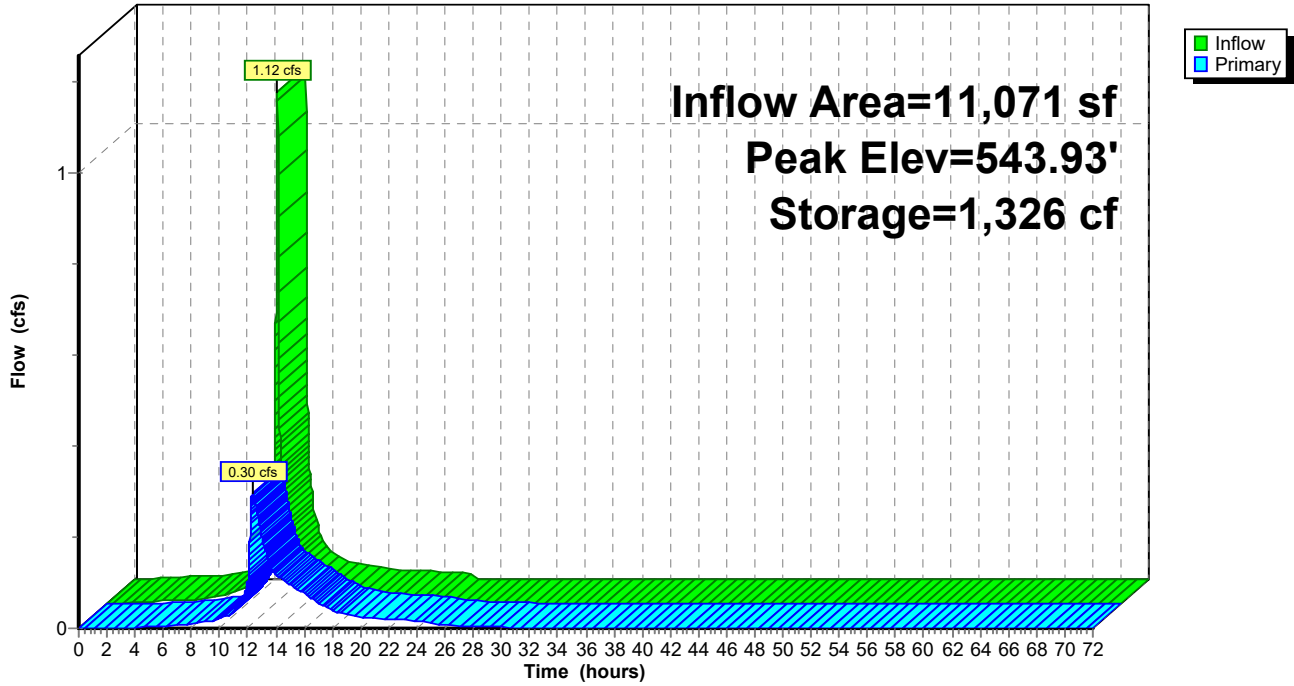
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.99'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.62'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.30 cfs @ 12.36 hrs HW=543.93' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.30 cfs of 1.29 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.15 cfs @ 1.69 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.15 cfs @ 0.72 fps)

### Pond PV-10: Pervious Pavers 10

Hydrograph



**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 4.44" for 10-Year event  
 Inflow = 0.77 cfs @ 12.10 hrs, Volume= 2,422 cf  
 Outflow = 0.17 cfs @ 12.31 hrs, Volume= 2,422 cf, Atten= 78%, Lag= 12.9 min  
 Primary = 0.17 cfs @ 12.31 hrs, Volume= 2,422 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Starting Elev= 543.50' Storage= 0 cf  
 Peak Elev= 544.56' @ 12.31 hrs Surf.Area= 2,592 sf Storage= 964 cf

Plug-Flow detention time= 179.5 min calculated for 2,422 cf (100% of inflow)  
 Center-of-Mass det. time= 179.7 min ( 944.3 - 764.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.63'	2,592 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,480 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.63	2,592	0	0
546.13	2,592	6,480	6,480

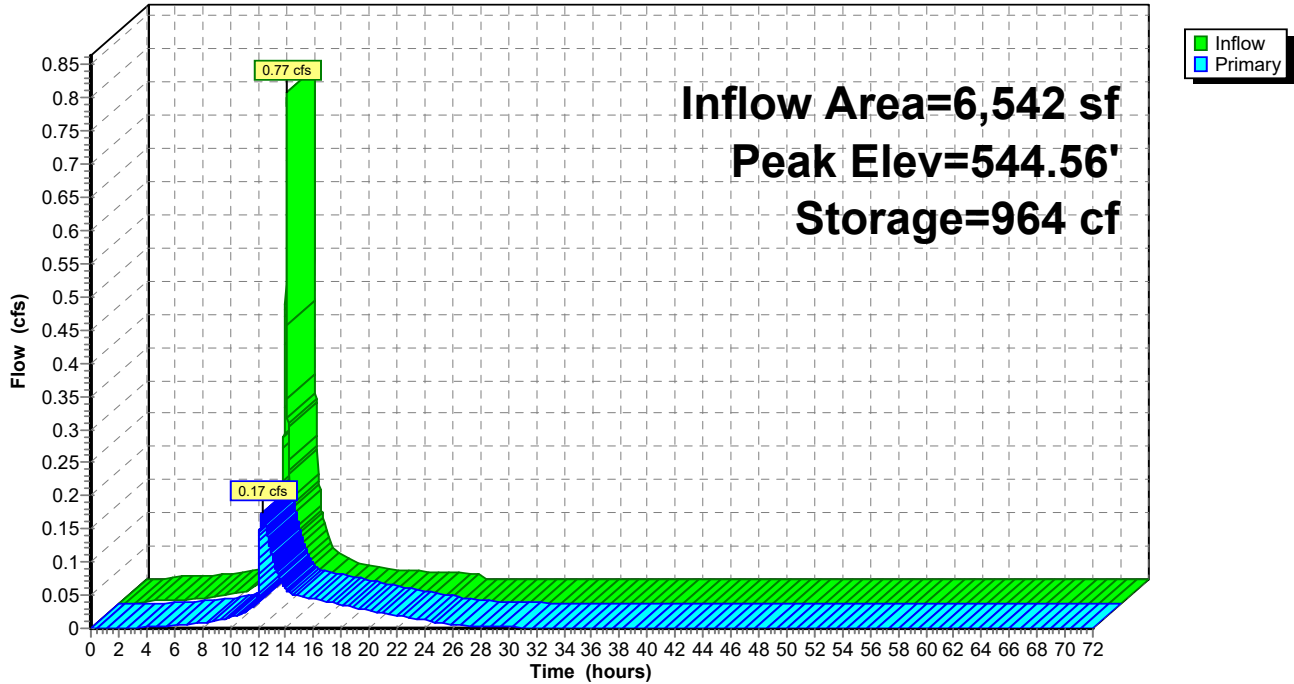
Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.62'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	544.30'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.17 cfs @ 12.31 hrs HW=544.56' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.17 cfs of 1.13 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.76 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.11 cfs @ 0.65 fps)

### Pond PV-11: Pervious Pavers 11

Hydrograph



**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 4.32" for 10-Year event  
 Inflow = 0.78 cfs @ 12.11 hrs, Volume= 2,507 cf  
 Outflow = 0.18 cfs @ 12.35 hrs, Volume= 2,507 cf, Atten= 77%, Lag= 14.5 min  
 Primary = 0.18 cfs @ 12.35 hrs, Volume= 2,507 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.52' @ 12.35 hrs Surf.Area= 2,430 sf Storage= 987 cf

Plug-Flow detention time= 173.3 min calculated for 2,507 cf (100% of inflow)  
 Center-of-Mass det. time= 173.5 min ( 944.5 - 771.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.50'	1,633 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,082 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.50	2,430	0	0
544.18	2,430	4,082	4,082

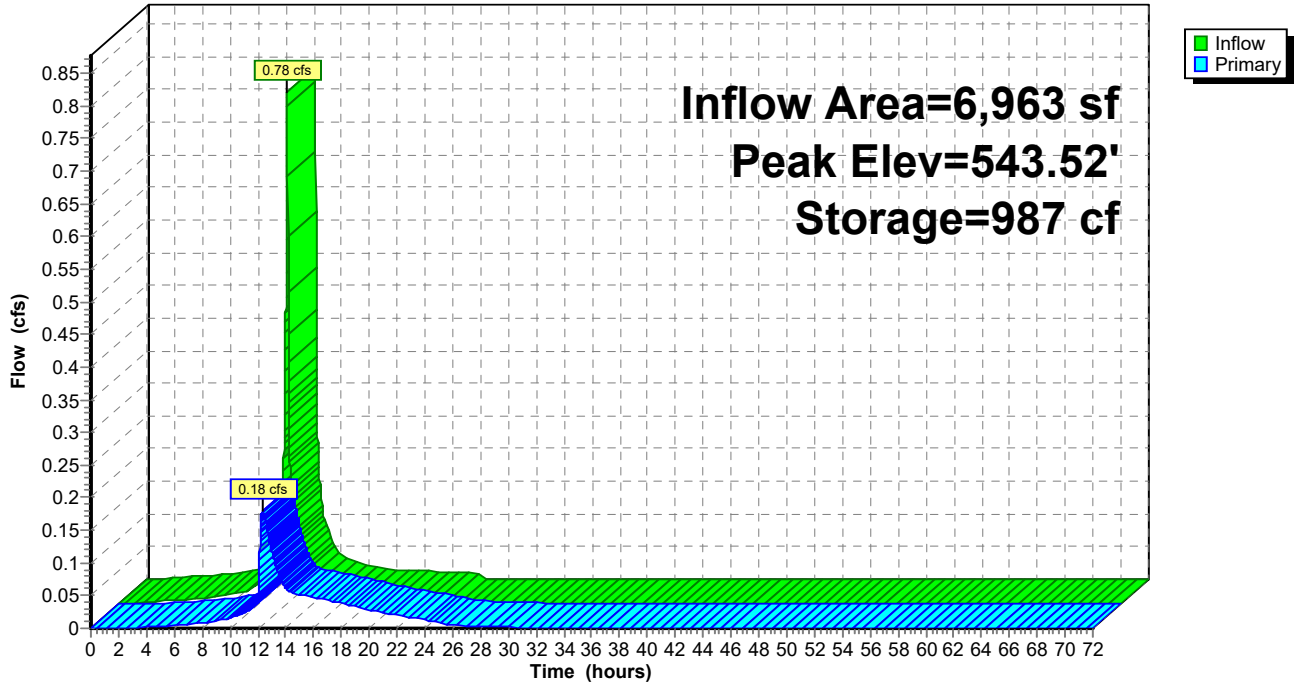
Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.49'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.25'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.18 cfs @ 12.35 hrs HW=543.52' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.18 cfs of 1.43 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.85 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.12 cfs @ 0.66 fps)

### Pond PV-7: Pervious Pavers 7

Hydrograph



**Summary for Pond PV-8: Pervious Pavers 8**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 3.92" for 10-Year event  
 Inflow = 0.72 cfs @ 12.10 hrs, Volume= 2,134 cf  
 Outflow = 0.13 cfs @ 12.51 hrs, Volume= 2,134 cf, Atten= 82%, Lag= 24.8 min  
 Primary = 0.13 cfs @ 12.51 hrs, Volume= 2,134 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.19' @ 12.51 hrs Surf.Area= 3,564 sf Storage= 928 cf

Plug-Flow detention time= 231.9 min calculated for 2,134 cf (100% of inflow)  
 Center-of-Mass det. time= 232.3 min ( 1,020.4 - 788.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.54'	1,483 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,707 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.54	3,564	0	0
544.58	3,564	3,707	3,707

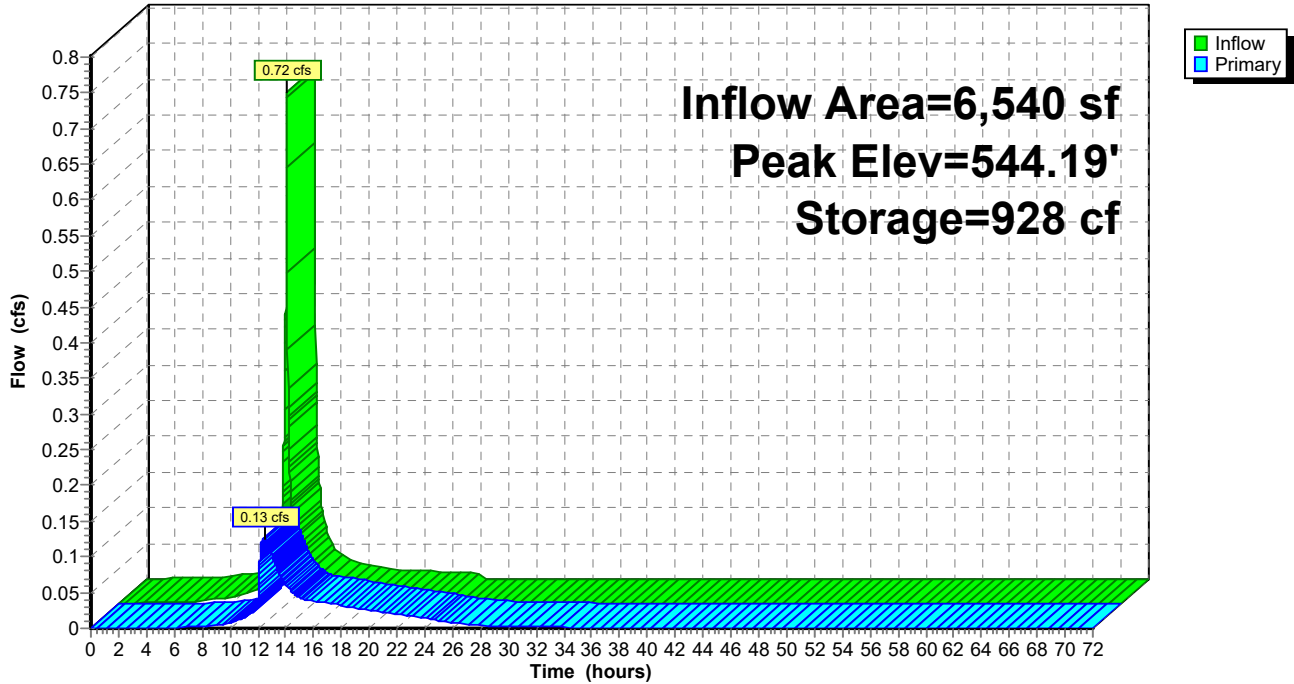
Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.53'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.99'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.13 cfs @ 12.51 hrs HW=544.19' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.13 cfs of 1.54 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.05 cfs @ 1.44 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.08 cfs @ 0.58 fps)

### Pond PV-8: Pervious Pavers 8

Hydrograph





**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 4.14" for 10-Year event  
 Inflow = 0.92 cfs @ 12.10 hrs, Volume= 2,821 cf  
 Outflow = 0.16 cfs @ 12.52 hrs, Volume= 2,821 cf, Atten= 83%, Lag= 25.1 min  
 Primary = 0.16 cfs @ 12.52 hrs, Volume= 2,821 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.99' @ 12.52 hrs Surf.Area= 3,564 sf Storage= 1,228 cf

Plug-Flow detention time= 230.3 min calculated for 2,821 cf (100% of inflow)  
 Center-of-Mass det. time= 230.4 min ( 1,008.0 - 777.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.13'	2,067 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,168 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.13	3,564	0	0
544.58	3,564	5,168	5,168

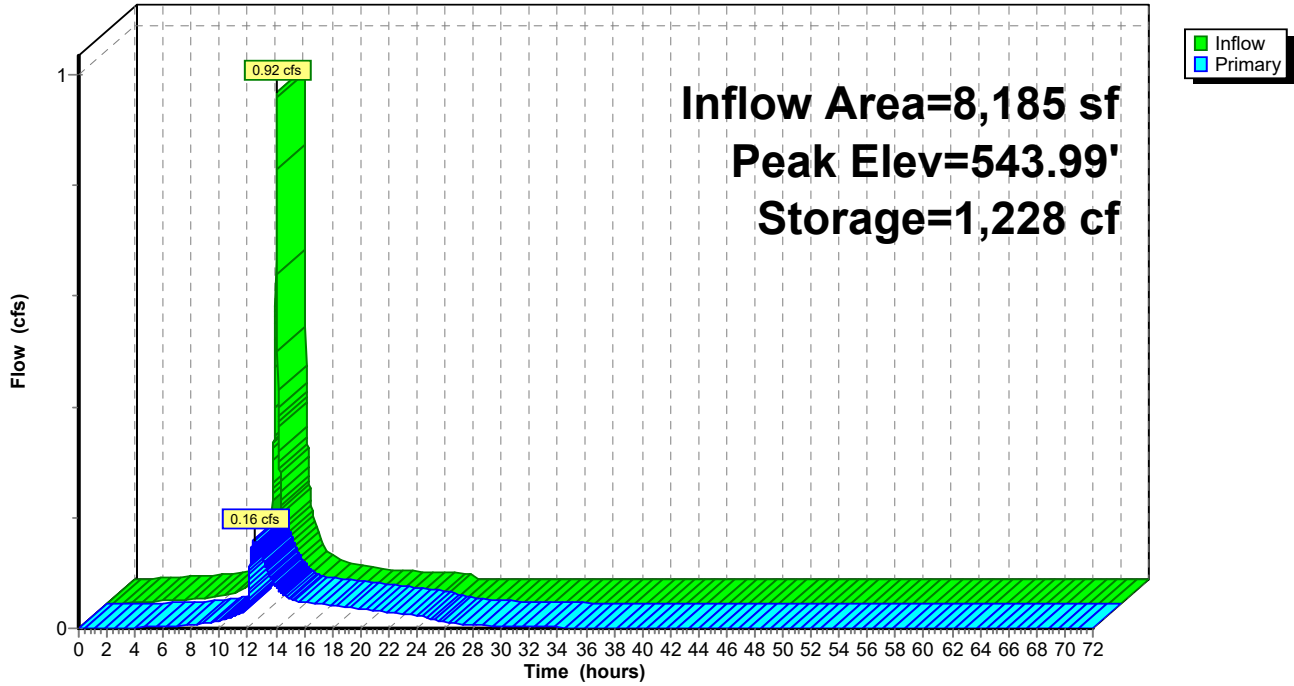
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.11'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.75'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.16 cfs @ 12.52 hrs HW=543.99' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.16 cfs of 1.31 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.70 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.10 cfs @ 0.63 fps)

### Pond PV-9: Pervious Pavers 9

Hydrograph



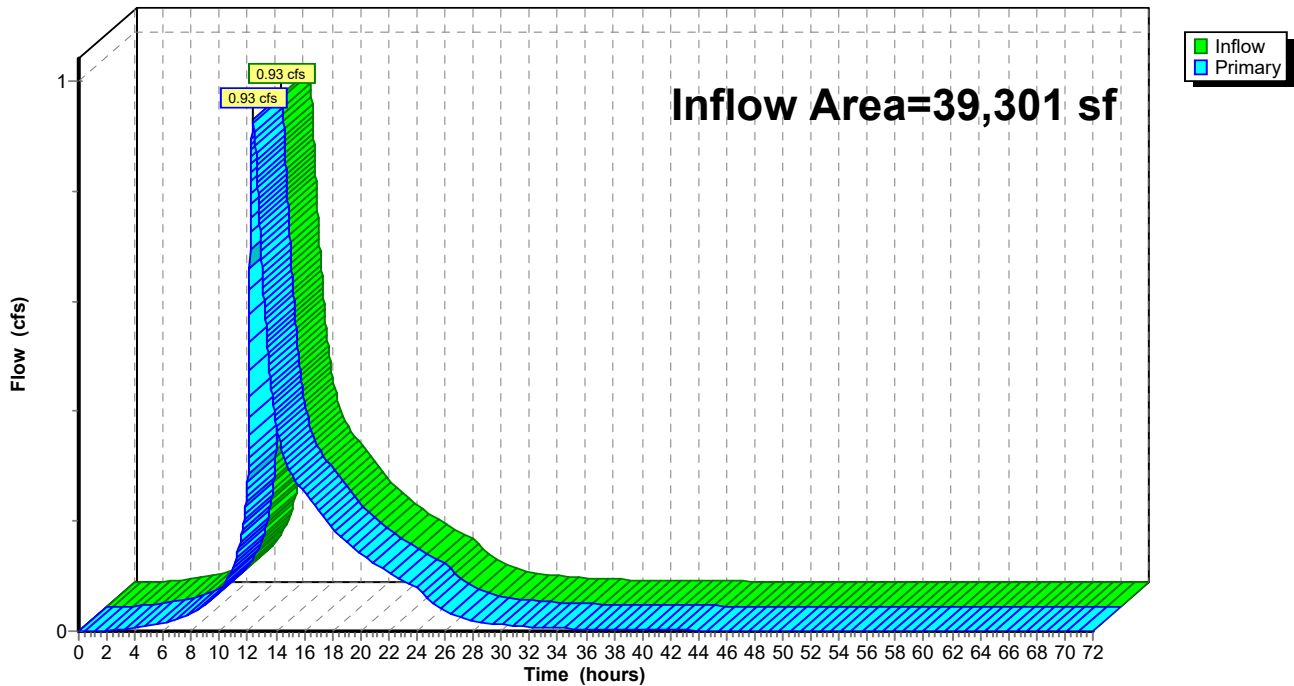
### Summary for Link P-1C: Proposed Pavers 7-11

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 4.15" for 10-Year event  
Inflow = 0.93 cfs @ 12.35 hrs, Volume= 13,584 cf  
Primary = 0.93 cfs @ 12.35 hrs, Volume= 13,584 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1C: Proposed Pavers 7-11

Hydrograph



### Summary for Subcatchment P-1C-10: Area 10

Runoff = 1.93 cfs @ 12.12 hrs, Volume= 6,453 cf, Depth= 6.99"  
 Routed to Pond PV-10 : Pervious Pavers 10

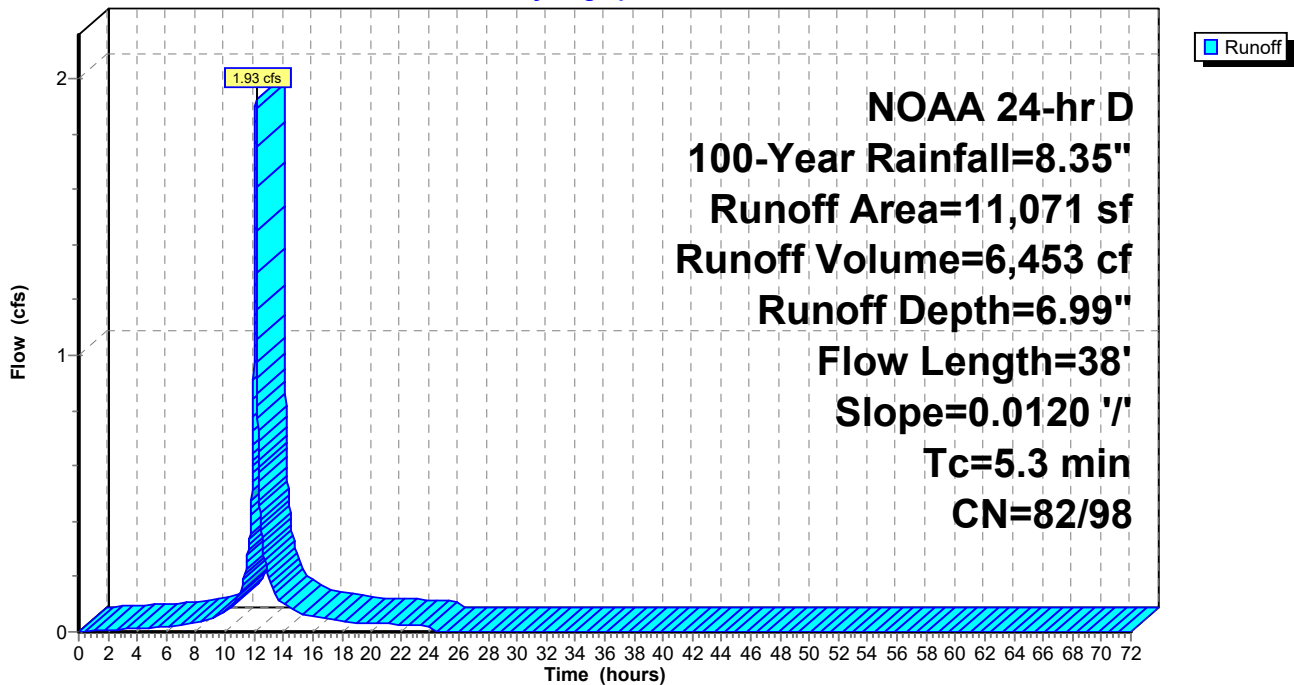
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	716	98	Impervious
*	3,912	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	880	74	>75% Grass cover, Good, HSG C
	1,999	80	>75% Grass cover, Good, HSG D
	11,071	89	Weighted Average
	6,443	82	58.20% Pervious Area
	4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		Sheet Flow, 10c1-10c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-10: Area 10

Hydrograph



### Summary for Subcatchment P-1C-11: Area 11

[49] Hint:  $T_c < 2dt$  may require smaller  $dt$

Runoff = 1.27 cfs @ 12.09 hrs, Volume= 4,085 cf, Depth= 7.49"  
 Routed to Pond PV-11 : Pervious Pavers 11

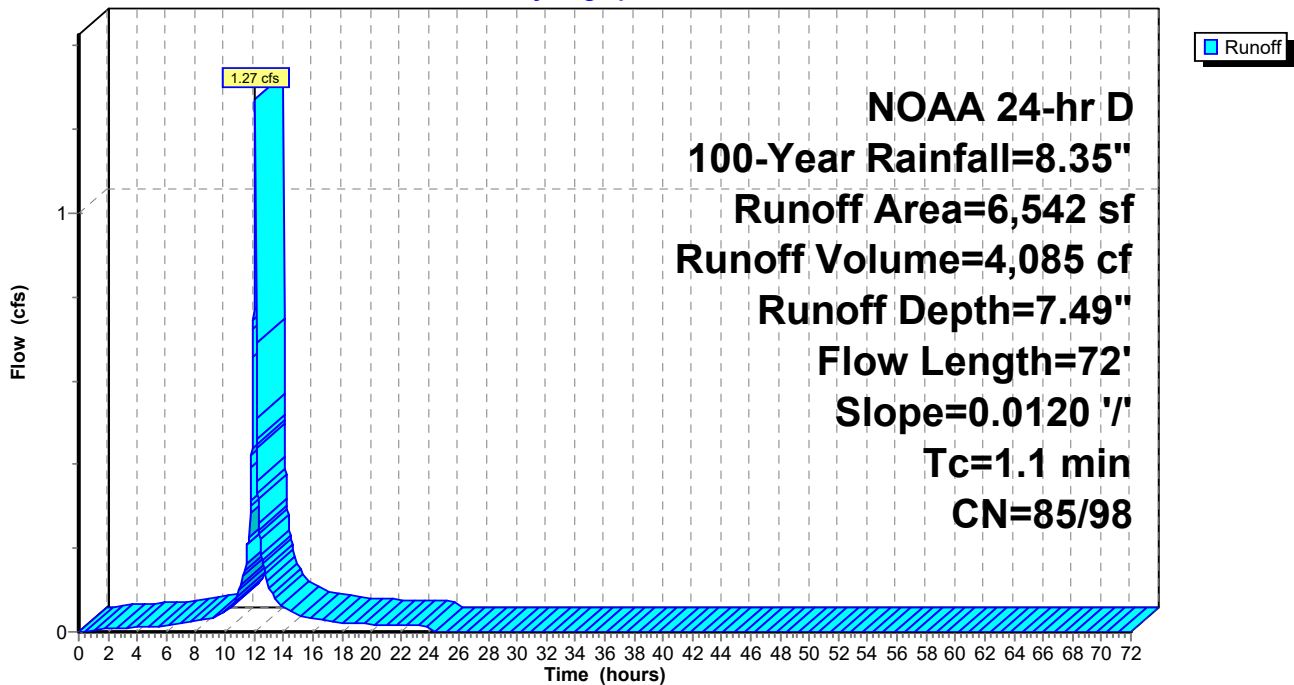
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		<b>Sheet Flow, 11c1-11c2</b> Smooth surfaces n= 0.011 P2= 3.54"

### Subcatchment P-1C-11: Area 11

Hydrograph



**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 1.31 cfs @ 12.11 hrs, Volume= 4,267 cf, Depth= 7.35"  
 Routed to Pond PV-7 : Pervious Pavers 7

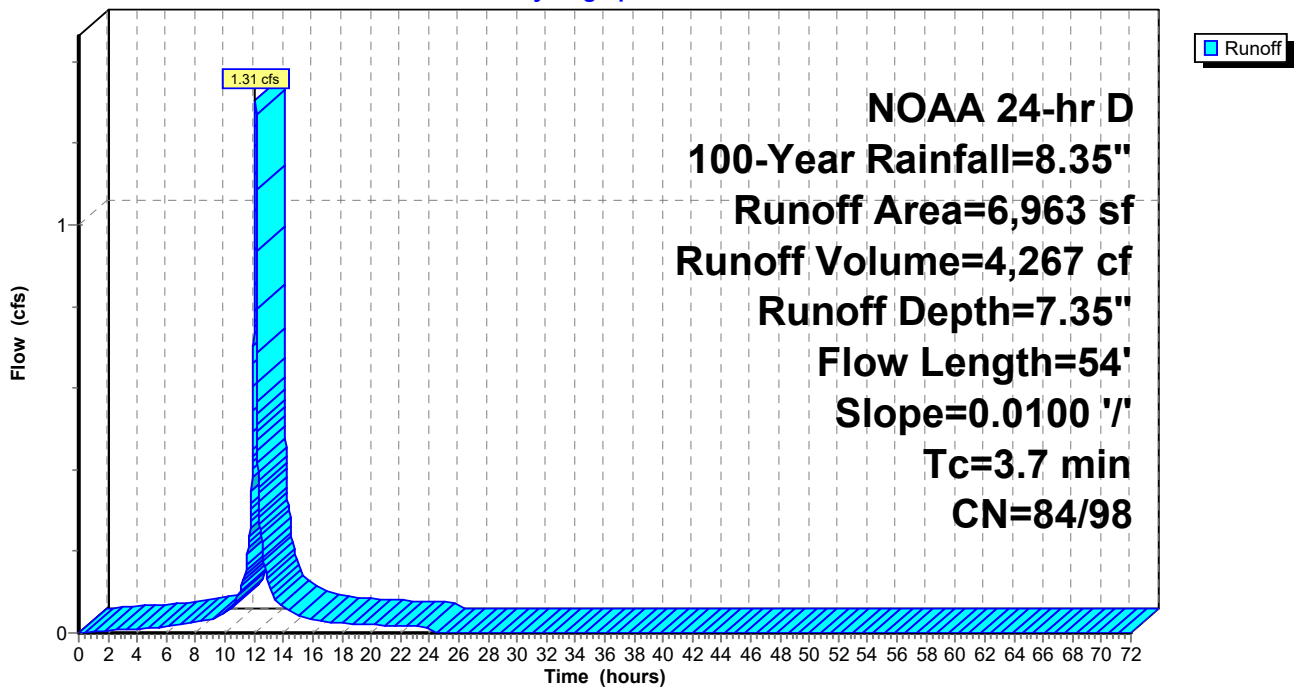
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
* 226	98	Impervious
* 3,598	98	MVS - Impervious
* 2,430	85	MVS - Pervious Pavers
709	80	>75% Grass cover, Good, HSG D
6,963	92	Weighted Average
3,139	84	45.08% Pervious Area
3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b> Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b> Paved Kv= 20.3 fps
3.7	54	Total			

**Subcatchment P-1C-7: Area 7**

Hydrograph



### Summary for Subcatchment P-1C-8: Area 8

Runoff = 1.23 cfs @ 12.10 hrs, Volume= 3,763 cf, Depth= 6.90"  
 Routed to Pond PV-8 : Pervious Pavers 8

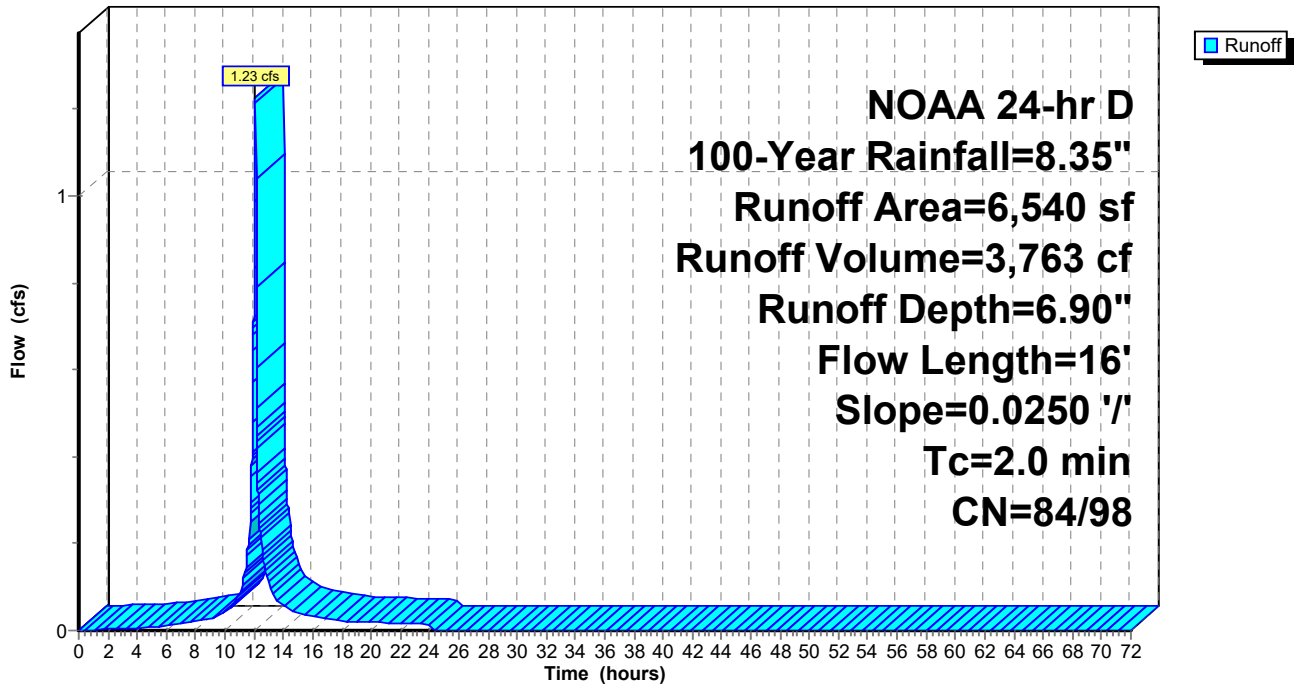
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 8c1-8c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-8: Area 8

Hydrograph



### Summary for Subcatchment P-1C-9: Area 9

Runoff = 1.56 cfs @ 12.10 hrs, Volume= 4,876 cf, Depth= 7.15"  
 Routed to Pond PV-9 : Pervious Pavers 9

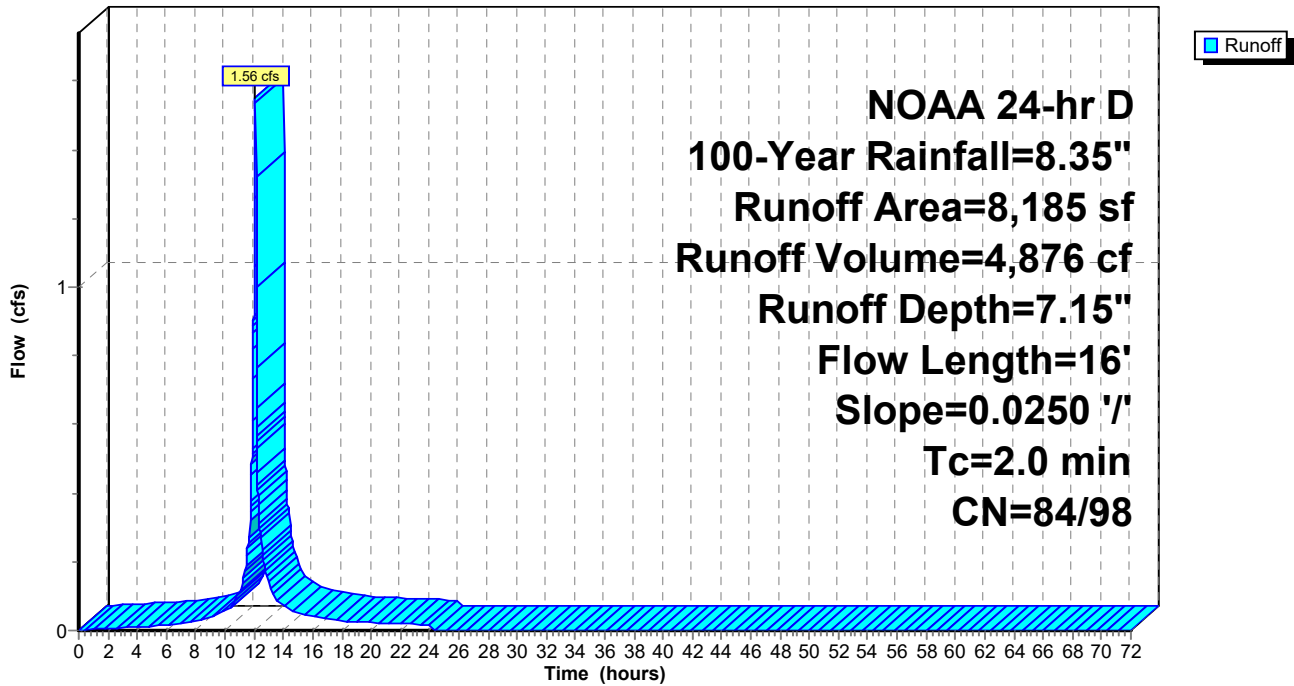
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		Sheet Flow, 9c1-9c2 Grass: Short n= 0.150 P2= 3.54"

### Subcatchment P-1C-9: Area 9

Hydrograph





**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 6.99" for 100-Year event  
 Inflow = 1.93 cfs @ 12.12 hrs, Volume= 6,453 cf  
 Outflow = 0.56 cfs @ 12.33 hrs, Volume= 6,453 cf, Atten= 71%, Lag= 12.1 min  
 Primary = 0.56 cfs @ 12.33 hrs, Volume= 6,453 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.51' @ 12.33 hrs Surf.Area= 3,564 sf Storage= 2,148 cf

Plug-Flow detention time= 106.6 min calculated for 6,452 cf (100% of inflow)  
 Center-of-Mass det. time= 106.9 min ( 879.3 - 772.4 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.00'	2,252 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,631 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.00	3,564	0	0
544.58	3,564	5,631	5,631

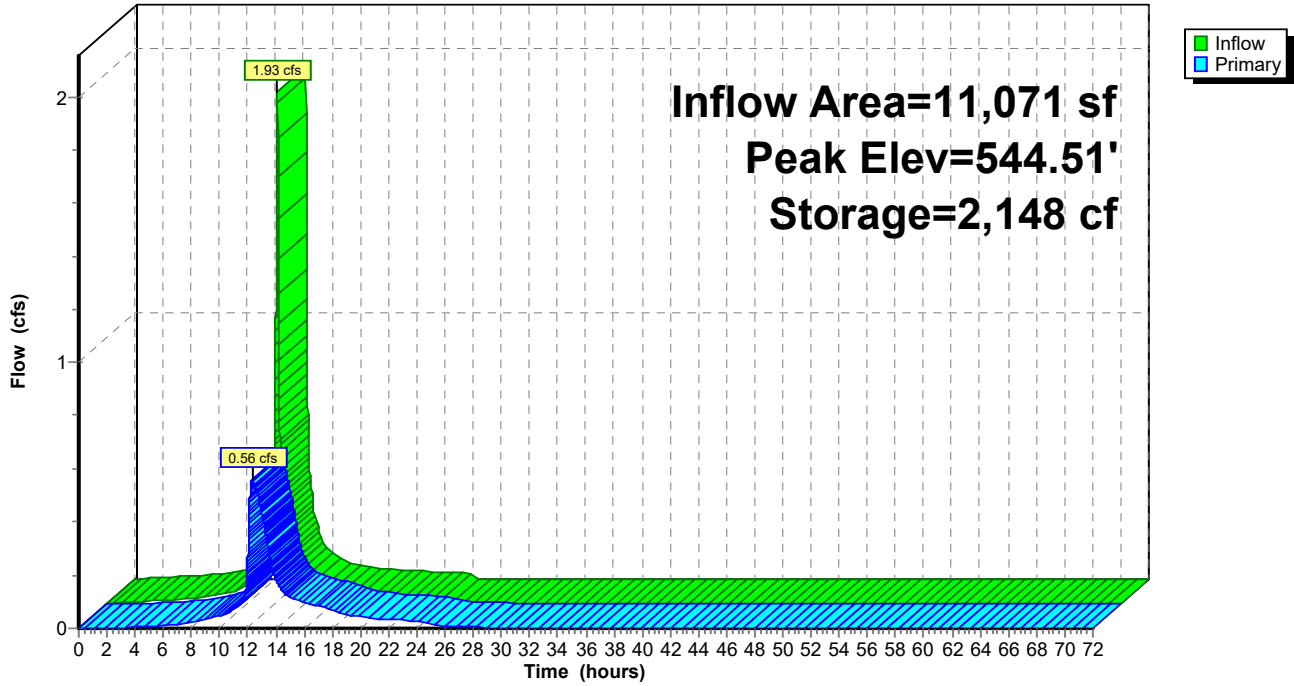
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.99'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.62'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.56 cfs @ 12.33 hrs HW=544.51' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.56 cfs of 1.48 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.20 cfs @ 2.24 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.36 cfs @ 1.63 fps)

### Pond PV-10: Pervious Pavers 10

Hydrograph



**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 7.49" for 100-Year event  
 Inflow = 1.27 cfs @ 12.09 hrs, Volume= 4,085 cf  
 Outflow = 0.40 cfs @ 12.21 hrs, Volume= 4,085 cf, Atten= 69%, Lag= 7.4 min  
 Primary = 0.40 cfs @ 12.21 hrs, Volume= 4,085 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Starting Elev= 543.50' Storage= 0 cf  
 Peak Elev= 545.03' @ 12.21 hrs Surf.Area= 2,592 sf Storage= 1,455 cf

Plug-Flow detention time= 145.8 min calculated for 4,084 cf (100% of inflow)  
 Center-of-Mass det. time= 146.0 min ( 901.3 - 755.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.63'	2,592 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,480 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.63	2,592	0	0
546.13	2,592	6,480	6,480

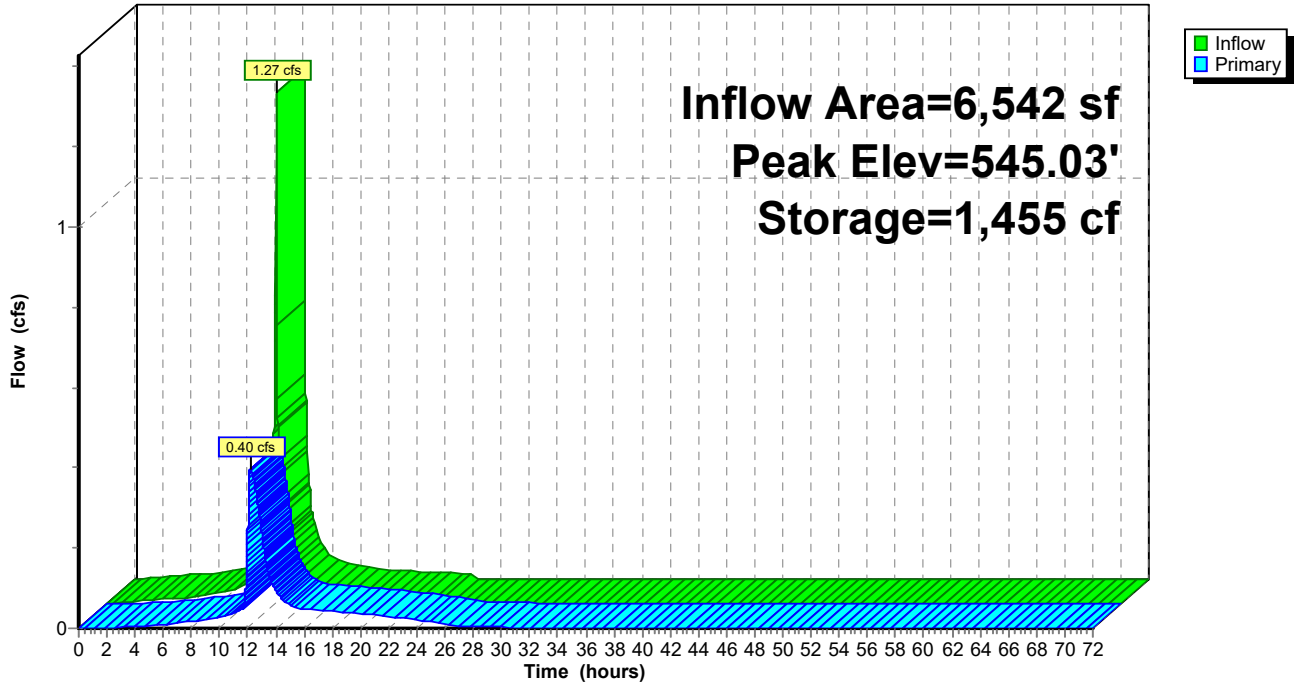
Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.62'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	544.30'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.40 cfs @ 12.21 hrs HW=545.03' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.40 cfs of 1.22 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.08 cfs @ 2.20 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.32 cfs @ 1.44 fps)

### Pond PV-11: Pervious Pavers 11

Hydrograph



**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 7.35" for 100-Year event  
 Inflow = 1.31 cfs @ 12.11 hrs, Volume= 4,267 cf  
 Outflow = 0.42 cfs @ 12.25 hrs, Volume= 4,267 cf, Atten= 68%, Lag= 8.5 min  
 Primary = 0.42 cfs @ 12.25 hrs, Volume= 4,267 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.05' @ 12.25 hrs Surf.Area= 2,430 sf Storage= 1,502 cf

Plug-Flow detention time= 140.8 min calculated for 4,266 cf (100% of inflow)  
 Center-of-Mass det. time= 141.0 min ( 902.3 - 761.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.50'	1,633 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,082 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.50	2,430	0	0
544.18	2,430	4,082	4,082

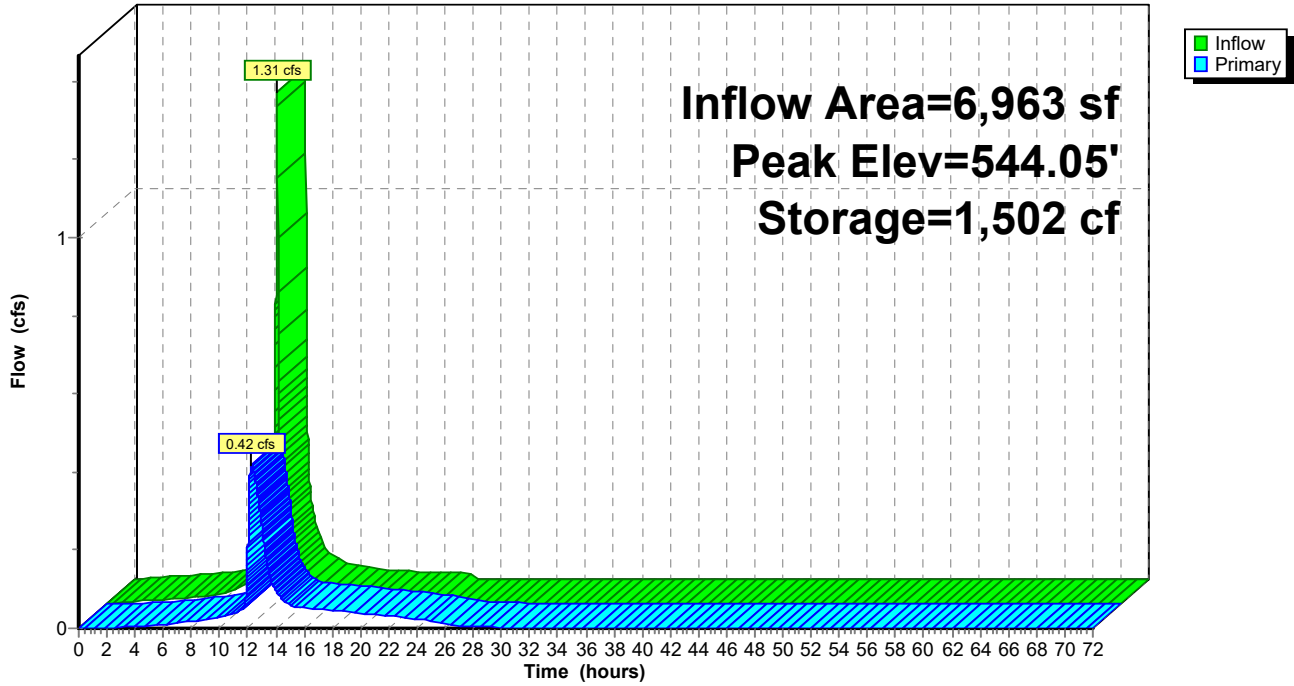
Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/ Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.49'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.25'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.42 cfs @ 12.25 hrs HW=544.05' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.42 cfs of 1.59 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.08 cfs @ 2.32 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.34 cfs @ 1.52 fps)

### Pond PV-7: Pervious Pavers 7

Hydrograph



### Summary for Pond PV-8: Pervious Pavers 8

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 6.90" for 100-Year event  
 Inflow = 1.23 cfs @ 12.10 hrs, Volume= 3,763 cf  
 Outflow = 0.33 cfs @ 12.24 hrs, Volume= 3,763 cf, Atten= 73%, Lag= 8.8 min  
 Primary = 0.33 cfs @ 12.24 hrs, Volume= 3,763 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.56' @ 12.24 hrs Surf.Area= 3,564 sf Storage= 1,454 cf

Plug-Flow detention time= 179.7 min calculated for 3,763 cf (100% of inflow)  
 Center-of-Mass det. time= 179.7 min ( 954.8 - 775.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.54'	1,483 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,707 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.54	3,564	0	0
544.58	3,564	3,707	3,707

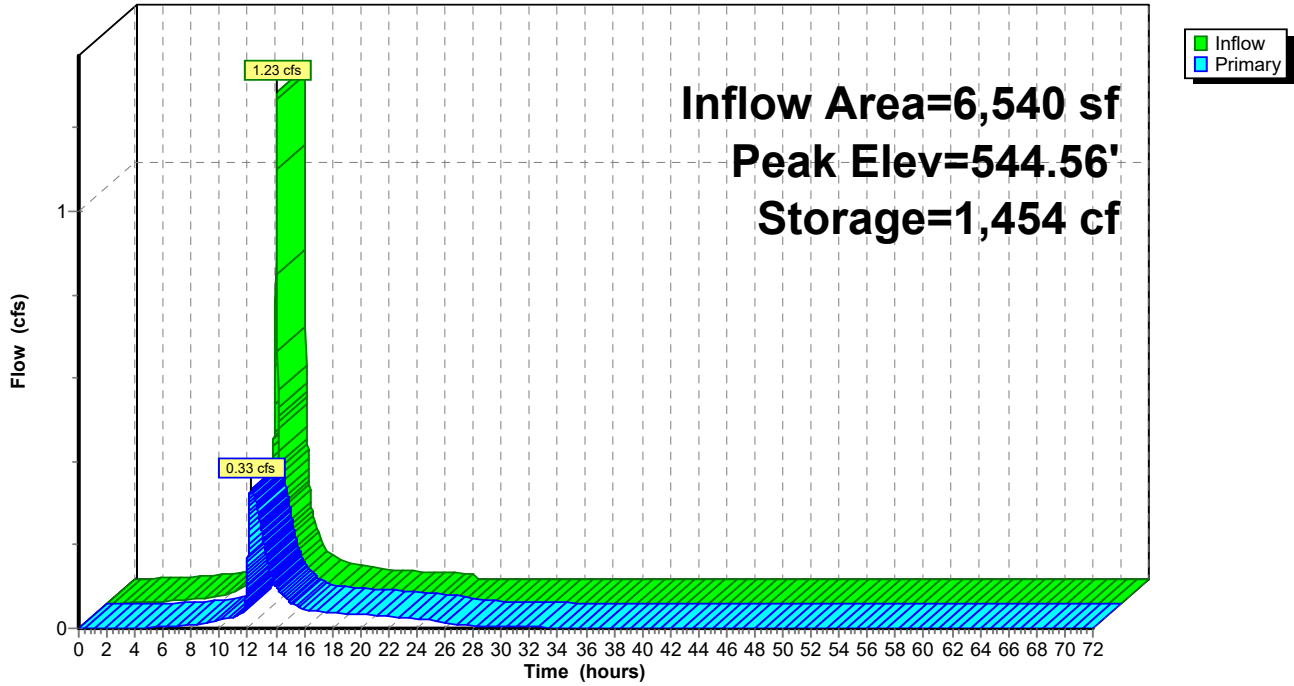
Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.53'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.99'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.33 cfs @ 12.24 hrs HW=544.56' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.33 cfs of 1.65 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.06 cfs @ 1.85 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.27 cfs @ 1.21 fps)

### Pond PV-8: Pervious Pavers 8

Hydrograph





**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 7.15" for 100-Year event  
 Inflow = 1.56 cfs @ 12.10 hrs, Volume= 4,876 cf  
 Outflow = 0.39 cfs @ 12.31 hrs, Volume= 4,876 cf, Atten= 75%, Lag= 12.4 min  
 Primary = 0.39 cfs @ 12.31 hrs, Volume= 4,876 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.47' @ 12.31 hrs Surf.Area= 3,564 sf Storage= 1,916 cf

Plug-Flow detention time= 183.8 min calculated for 4,875 cf (100% of inflow)  
 Center-of-Mass det. time= 184.0 min ( 950.5 - 766.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.13'	2,067 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,168 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.13	3,564	0	0
544.58	3,564	5,168	5,168

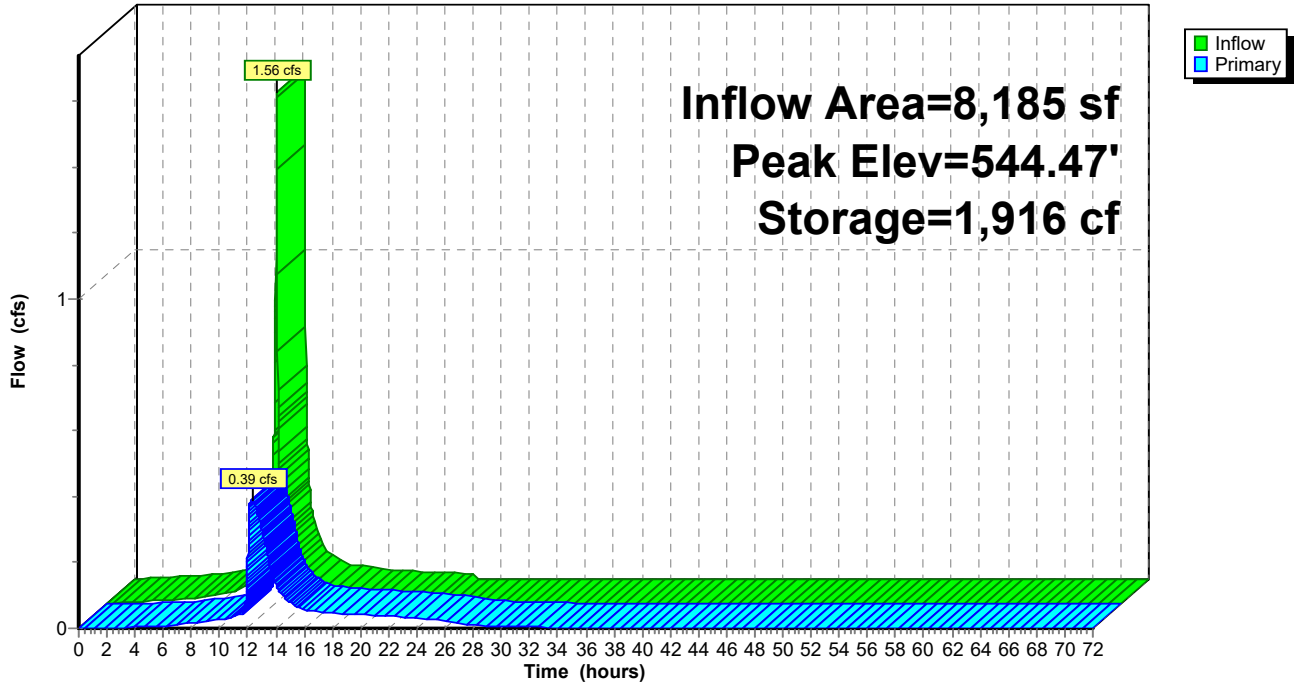
Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.11'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.75'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.39 cfs @ 12.31 hrs HW=544.47' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.39 cfs of 1.47 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.07 cfs @ 2.16 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.32 cfs @ 1.43 fps)

### Pond PV-9: Pervious Pavers 9

Hydrograph



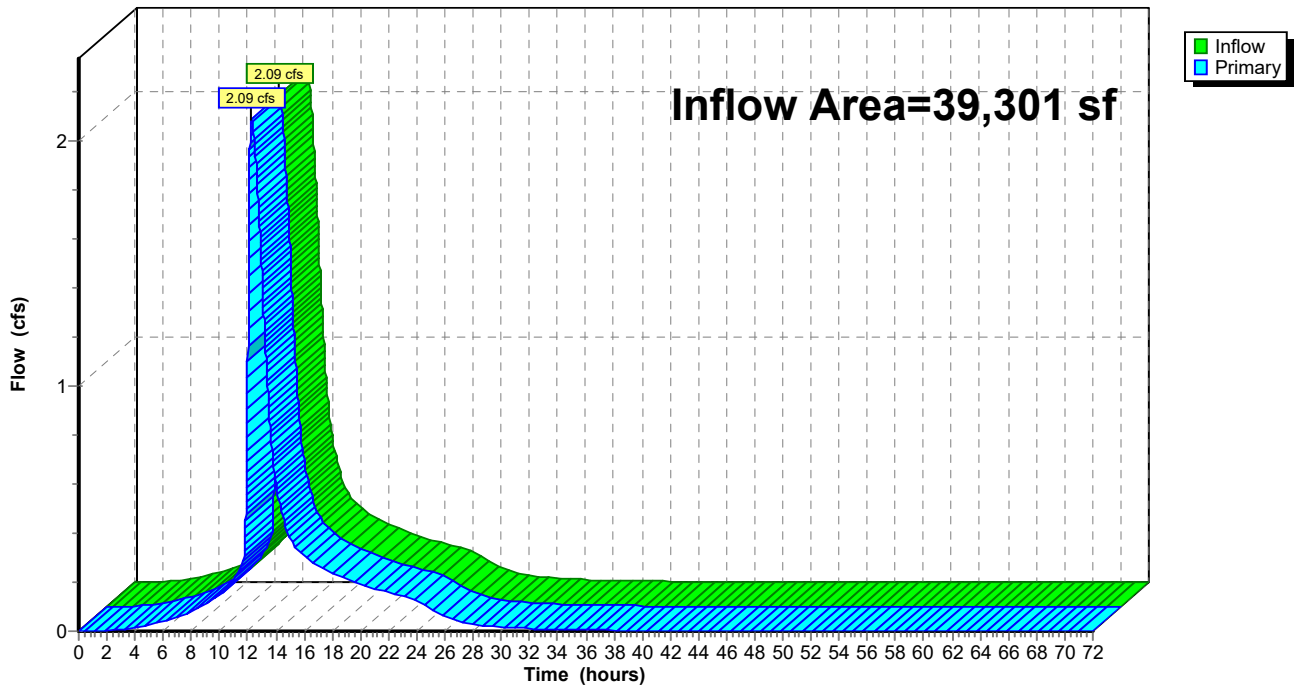
### Summary for Link P-1C: Proposed Pavers 7-11

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 7.16" for 100-Year event  
Inflow = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf  
Primary = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-1C: Proposed Pavers 7-11

Hydrograph



**Summary for Subcatchment EX-2(I): Existing Impervious to POI-2**

- [47] Hint: Peak is 475% of capacity of segment #3
- [47] Hint: Peak is 424% of capacity of segment #4
- [47] Hint: Peak is 156% of capacity of segment #5
- [47] Hint: Peak is 279% of capacity of segment #6
- [47] Hint: Peak is 252% of capacity of segment #7

Runoff = 29.58 cfs @ 12.14 hrs, Volume= 108,528 cf, Depth= 3.31"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

	Area (sf)	CN	Description
*	156,852	98	Impervious
*	237,038	98	MVS
	393,890	98	Weighted Average
	393,890	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0370	1.85		<b>Sheet Flow, 1bi-2bi</b> Smooth surfaces n= 0.011 P2= 3.54"
1.4	218	0.0171	2.65		<b>Shallow Concentrated Flow, 2bi-A</b> Paved Kv= 20.3 fps
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b>

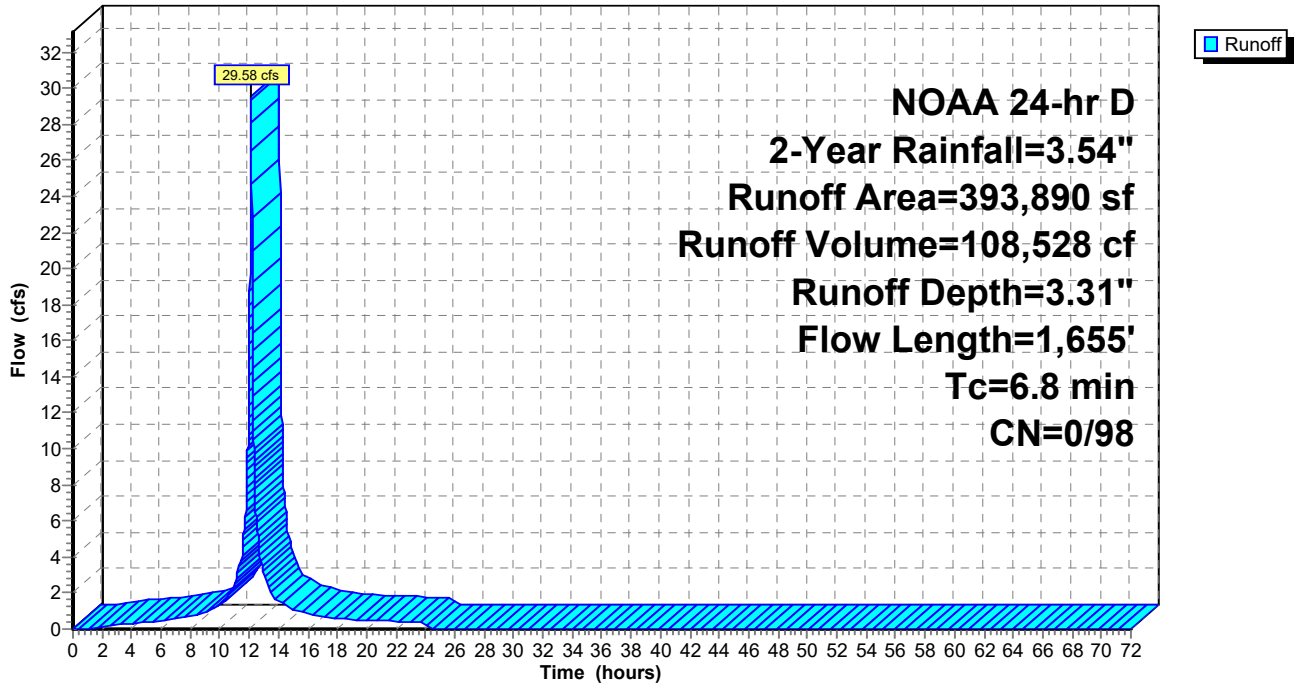
Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60'

n= 0.011

6.8 1,655 Total

### Subcatchment EX-2(I): Existing Impervious to POI-2

Hydrograph



**Summary for Subcatchment EX-2(P): Existing Pervious to POI-2**

Runoff = 2.43 cfs @ 12.18 hrs, Volume= 8,833 cf, Depth= 1.39"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

Area (sf)	CN	Description
19,218	77	Woods, Good, HSG D
21,619	80	>75% Grass cover, Good, HSG D
2,618	70	Woods, Good, HSG C
32,503	74	>75% Grass cover, Good, HSG C
60	61	>75% Grass cover, Good, HSG B
76,018	76	Weighted Average
76,018	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, 1bp-2bp</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, 2bp-3bp</b> Paved Kv= 20.3 fps
0.2	48	0.0050	3.72	4.57	<b>Pipe Channel, 3bp-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b>

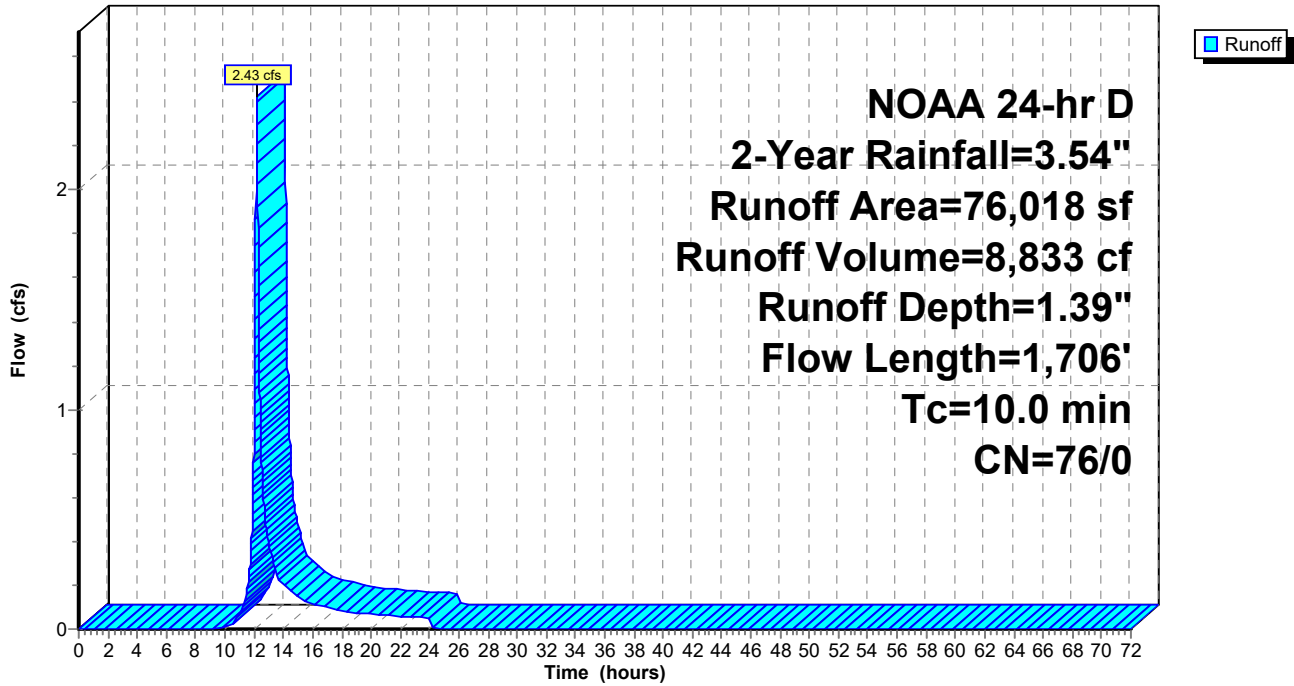
Bot.W=4.00' D=1.00' Z= 0.3 ' /' Top.W=4.60'

n= 0.011

10.0 1,706 Total

Subcatchment EX-2(P): Existing Pervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(I): Proposed Impervious to POI-2**

- [47] Hint: Peak is 525% of capacity of segment #3
- [47] Hint: Peak is 385% of capacity of segment #4
- [47] Hint: Peak is 385% of capacity of segment #5
- [47] Hint: Peak is 385% of capacity of segment #6
- [47] Hint: Peak is 142% of capacity of segment #7
- [47] Hint: Peak is 142% of capacity of segment #8
- [47] Hint: Peak is 142% of capacity of segment #9
- [47] Hint: Peak is 142% of capacity of segment #10
- [47] Hint: Peak is 142% of capacity of segment #11

Runoff = 26.84 cfs @ 12.13 hrs, Volume= 94,826 cf, Depth= 3.31"  
 Routed to Link P-2 : Proposed to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 2-Year Rainfall=3.54"

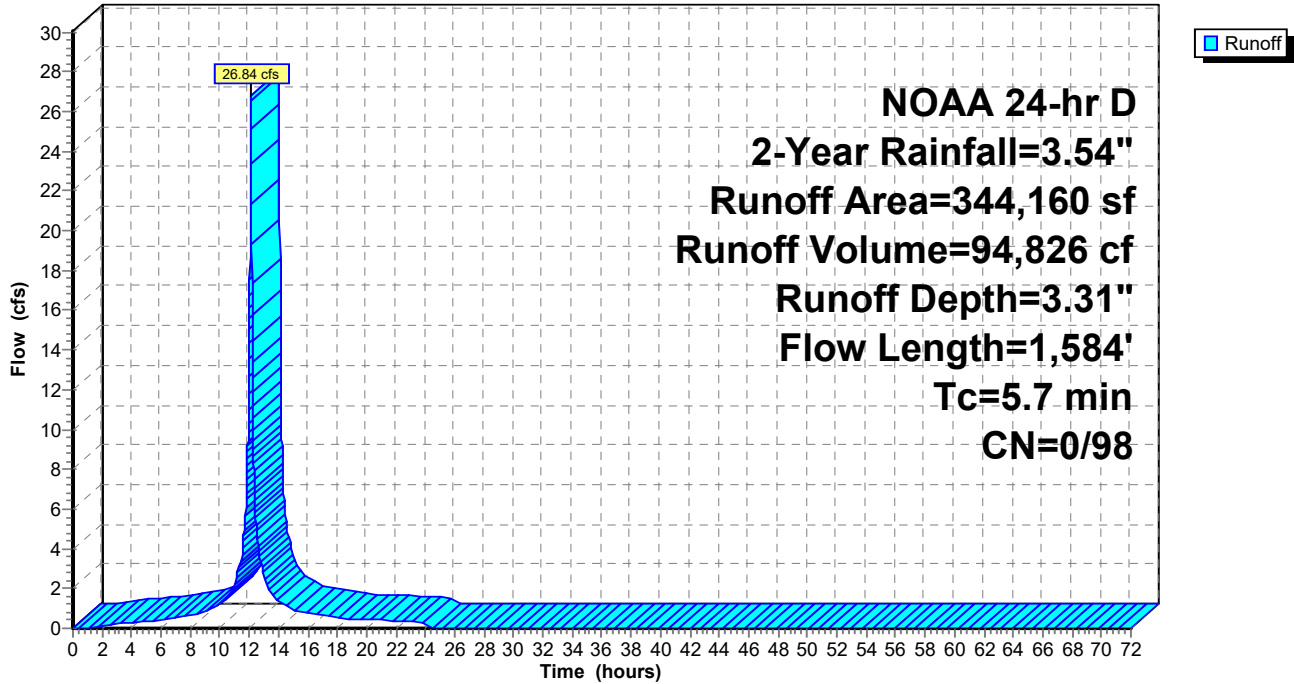
	Area (sf)	CN	Description
*	172,891	98	Impervious
*	171,269	98	Motor Vehicle Surface
	344,160	98	Weighted Average
	344,160	98	100.00% Impervious Area



Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0285	1.67		<b>Sheet Flow, A2i-B2i</b> Smooth surfaces n= 0.011 P2= 3.54"
0.3	67	0.0285	3.43		<b>Shallow Concentrated Flow, B2i-C2i</b> Paved Kv= 20.3 fps
0.4	148	0.0206	6.51	5.11	<b>Pipe Channel, C2i-A</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
5.7	1,584	Total			

### Subcatchment P-2(I): Proposed Impervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(P): Proposed Pervious to POI-2**

Runoff = 2.50 cfs @ 12.18 hrs, Volume= 9,024 cf, Depth= 1.39"

Routed to Link P-2 : Proposed to POI-2

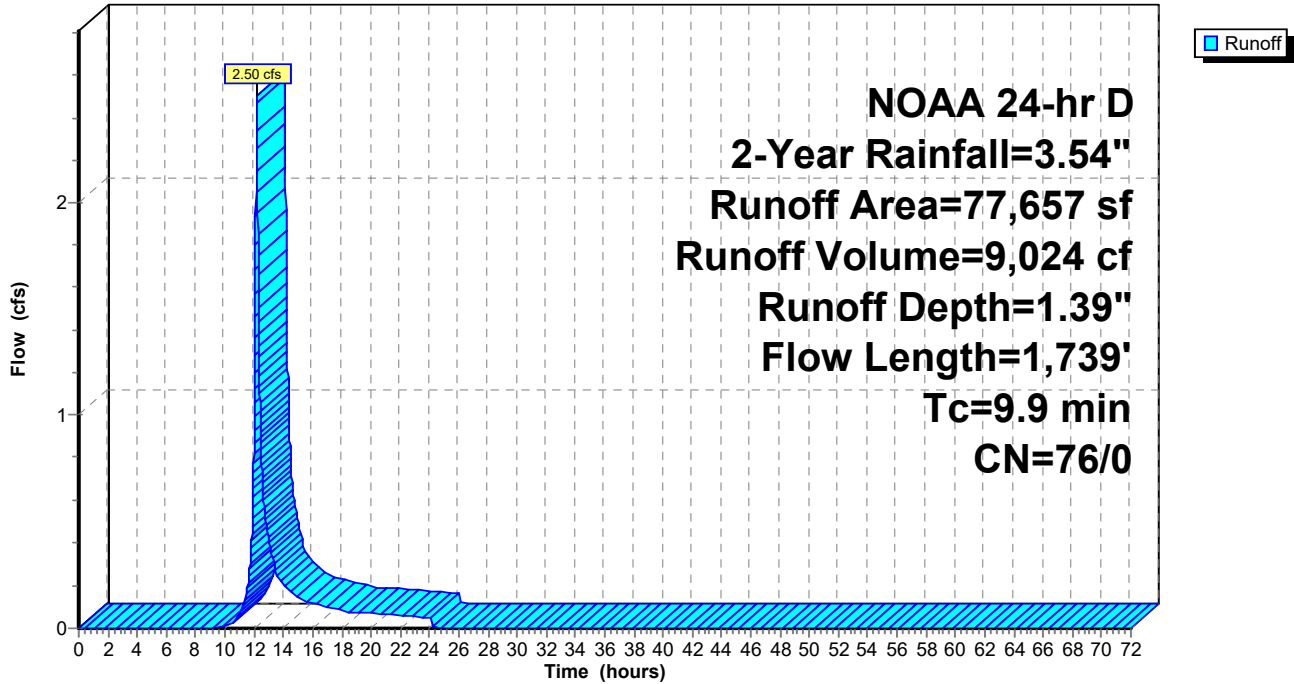
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
NOAA 24-hr D 2-Year Rainfall=3.54"

Area (sf)	CN	Description
15,074	77	Woods, Good, HSG D
25,472	80	>75% Grass cover, Good, HSG D
2,384	70	Woods, Good, HSG C
34,542	74	>75% Grass cover, Good, HSG C
185	61	>75% Grass cover, Good, HSG B
77,657	76	Weighted Average
77,657	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, A2p-B2p</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, B2p-C2p</b> Paved Kv= 20.3 fps
0.3	71	0.0050	3.72	4.57	<b>Pipe Channel, C2p-D2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	57	0.0093	5.08	6.23	<b>Pipe Channel, D2p-E2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	21	0.0093	5.08	6.23	<b>Pipe Channel, E2p-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
9.9	1,739	Total			

### Subcatchment P-2(P): Proposed Pervious to POI-2

Hydrograph



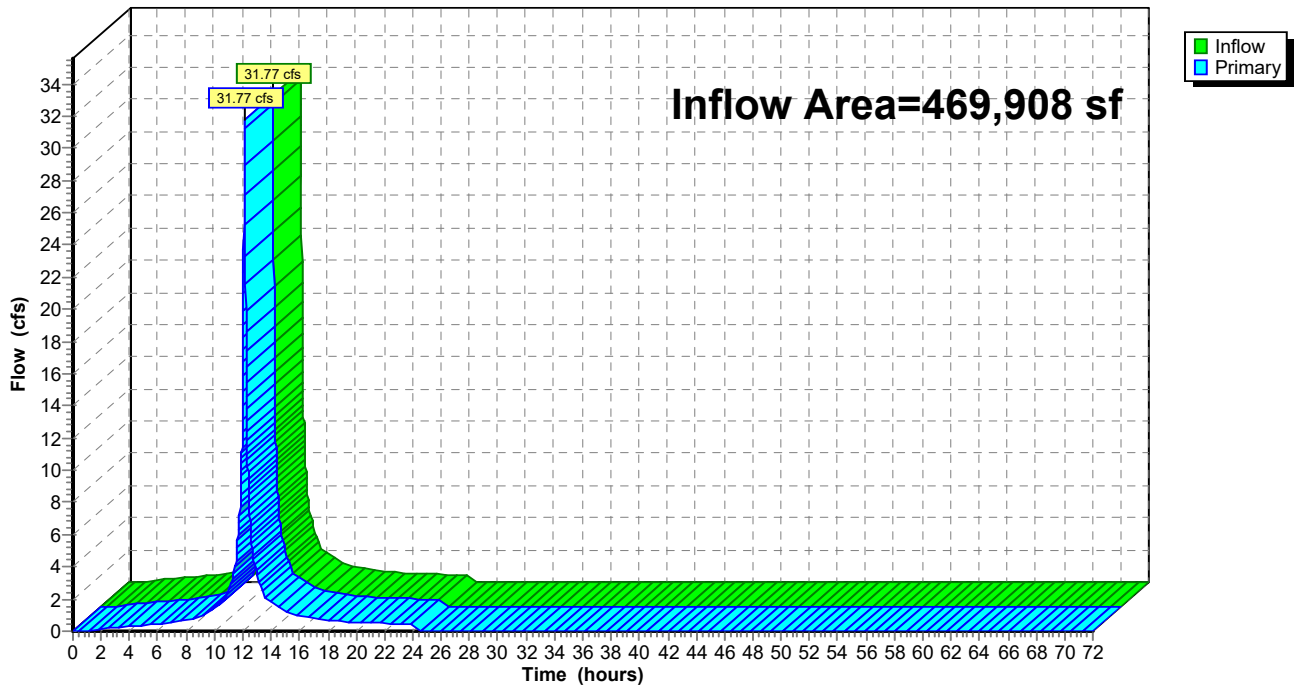
### Summary for Link EX-2: Existing Drainage to POI-2

Inflow Area = 469,908 sf, 83.82% Impervious, Inflow Depth = 3.00" for 2-Year event  
Inflow = 31.77 cfs @ 12.14 hrs, Volume= 117,361 cf  
Primary = 31.77 cfs @ 12.14 hrs, Volume= 117,361 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-2: Existing Drainage to POI-2

Hydrograph



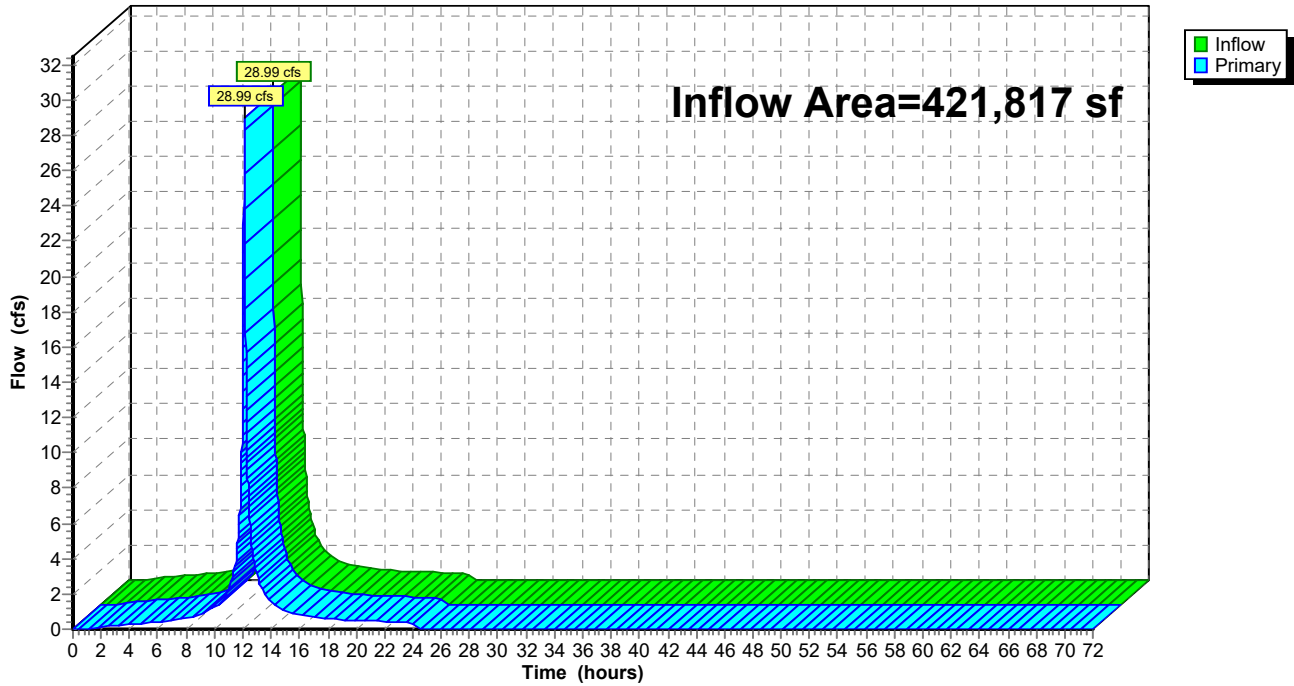
### Summary for Link P-2: Proposed to POI-2

Inflow Area = 421,817 sf, 81.59% Impervious, Inflow Depth = 2.95" for 2-Year event  
Inflow = 28.99 cfs @ 12.13 hrs, Volume= 103,850 cf  
Primary = 28.99 cfs @ 12.13 hrs, Volume= 103,850 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-2: Proposed to POI-2

Hydrograph



**Summary for Subcatchment EX-2(I): Existing Impervious to POI-2**

- [47] Hint: Peak is 707% of capacity of segment #3
- [47] Hint: Peak is 632% of capacity of segment #4
- [47] Hint: Peak is 233% of capacity of segment #5
- [47] Hint: Peak is 415% of capacity of segment #6
- [47] Hint: Peak is 374% of capacity of segment #7
- [47] Hint: Peak is 123% of capacity of segment #8
- [47] Hint: Peak is 116% of capacity of segment #9
- [47] Hint: Peak is 119% of capacity of segment #10
- [47] Hint: Peak is 135% of capacity of segment #11

Runoff = 44.02 cfs @ 12.14 hrs, Volume= 164,213 cf, Depth= 5.00"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	156,852	98	Impervious
*	237,038	98	MVS
	393,890	98	Weighted Average
	393,890	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0370	1.85		<b>Sheet Flow, 1bi-2bi</b> Smooth surfaces n= 0.011 P2= 3.54"
1.4	218	0.0171	2.65		<b>Shallow Concentrated Flow, 2bi-A</b> Paved Kv= 20.3 fps
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013

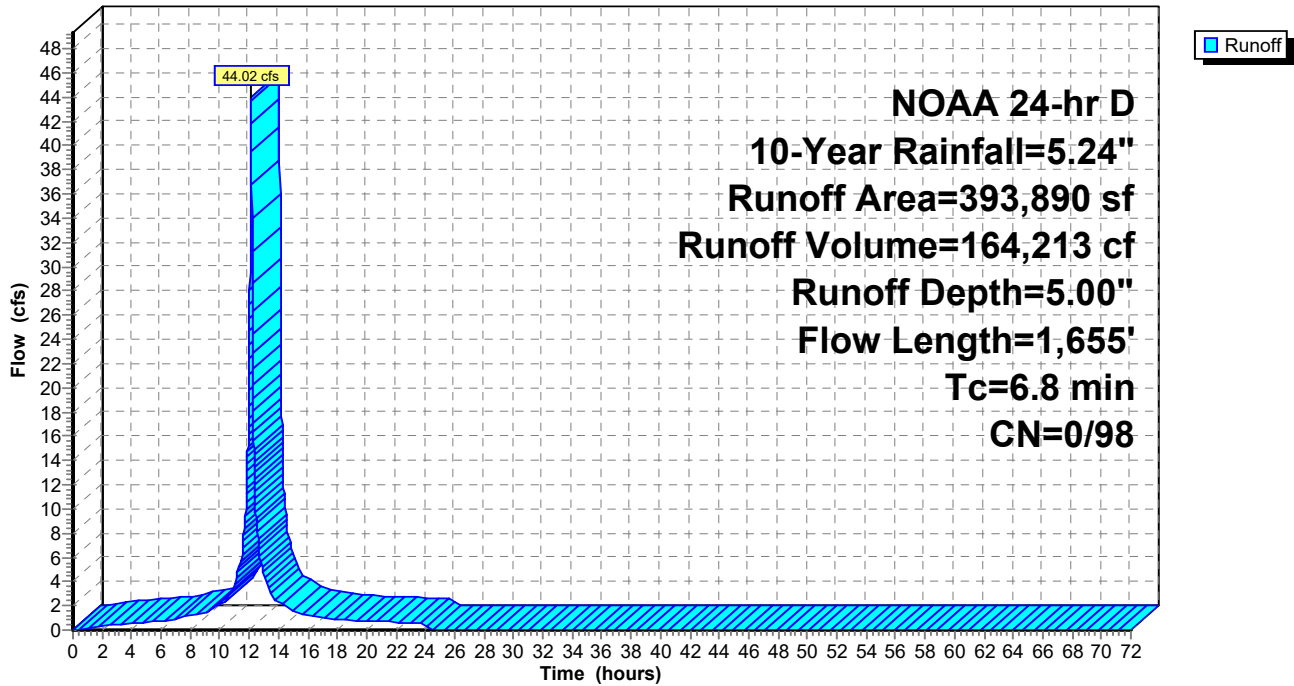


1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011

6.8 1,655 Total

### Subcatchment EX-2(I): Existing Impervious to POI-2

Hydrograph



**Summary for Subcatchment EX-2(P): Existing Pervious to POI-2**

[47] Hint: Peak is 106% of capacity of segment #3

Runoff = 4.82 cfs @ 12.17 hrs, Volume= 17,323 cf, Depth= 2.73"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

Area (sf)	CN	Description
19,218	77	Woods, Good, HSG D
21,619	80	>75% Grass cover, Good, HSG D
2,618	70	Woods, Good, HSG C
32,503	74	>75% Grass cover, Good, HSG C
60	61	>75% Grass cover, Good, HSG B
76,018	76	Weighted Average
76,018	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, 1bp-2bp</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, 2bp-3bp</b> Paved Kv= 20.3 fps
0.2	48	0.0050	3.72	4.57	<b>Pipe Channel, 3bp-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75'

n= 0.013

0.1 38 0.0050 7.58 32.58

Trap/Vee/Rect Channel Flow, I-J

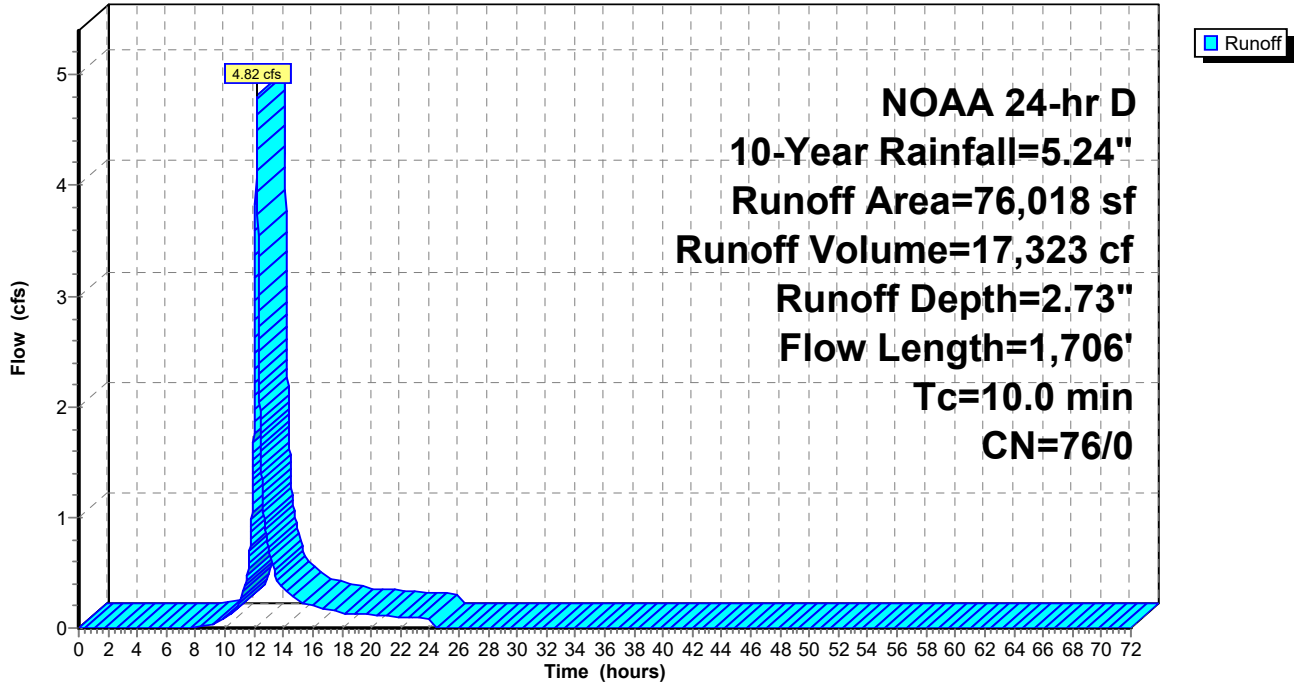
Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60'

n= 0.011

10.0 1,706 Total

Subcatchment EX-2(P): Existing Pervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(I): Proposed Impervious to POI-2**

- [47] Hint: Peak is 781% of capacity of segment #3
- [47] Hint: Peak is 573% of capacity of segment #4
- [47] Hint: Peak is 573% of capacity of segment #5
- [47] Hint: Peak is 573% of capacity of segment #6
- [47] Hint: Peak is 211% of capacity of segment #7
- [47] Hint: Peak is 211% of capacity of segment #8
- [47] Hint: Peak is 211% of capacity of segment #9
- [47] Hint: Peak is 211% of capacity of segment #10
- [47] Hint: Peak is 211% of capacity of segment #11
- [47] Hint: Peak is 112% of capacity of segment #12
- [47] Hint: Peak is 105% of capacity of segment #13
- [47] Hint: Peak is 108% of capacity of segment #14
- [47] Hint: Peak is 123% of capacity of segment #15

Runoff = 39.94 cfs @ 12.13 hrs, Volume= 143,481 cf, Depth= 5.00"  
 Routed to Link P-2 : Proposed to POI-2

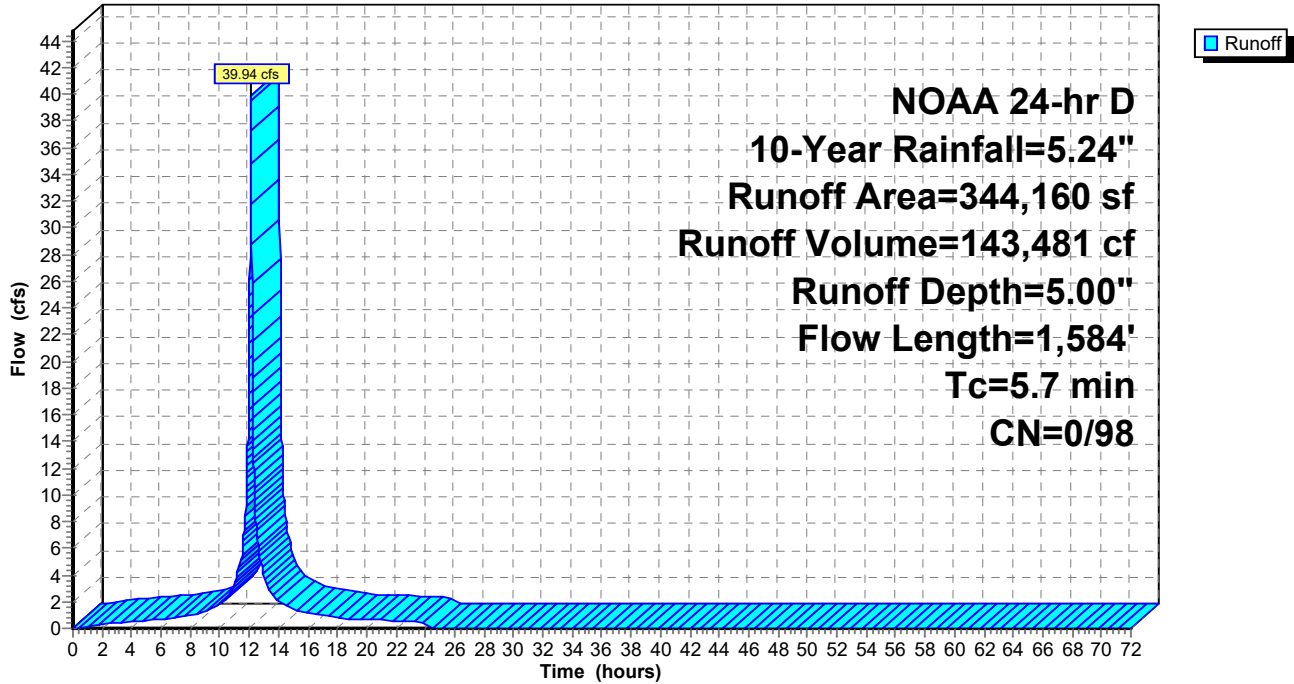
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

	Area (sf)	CN	Description
*	172,891	98	Impervious
*	171,269	98	Motor Vehicle Surface
	344,160	98	Weighted Average
	344,160	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0285	1.67		<b>Sheet Flow, A2i-B2i</b> Smooth surfaces n= 0.011 P2= 3.54"
0.3	67	0.0285	3.43		<b>Shallow Concentrated Flow, B2i-C2i</b> Paved Kv= 20.3 fps
0.4	148	0.0206	6.51	5.11	<b>Pipe Channel, C2i-A</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
5.7	1,584	Total			

### Subcatchment P-2(I): Proposed Impervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(P): Proposed Pervious to POI-2**

[47] Hint: Peak is 109% of capacity of segment #3

Runoff = 4.97 cfs @ 12.17 hrs, Volume= 17,697 cf, Depth= 2.73"  
 Routed to Link P-2 : Proposed to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 10-Year Rainfall=5.24"

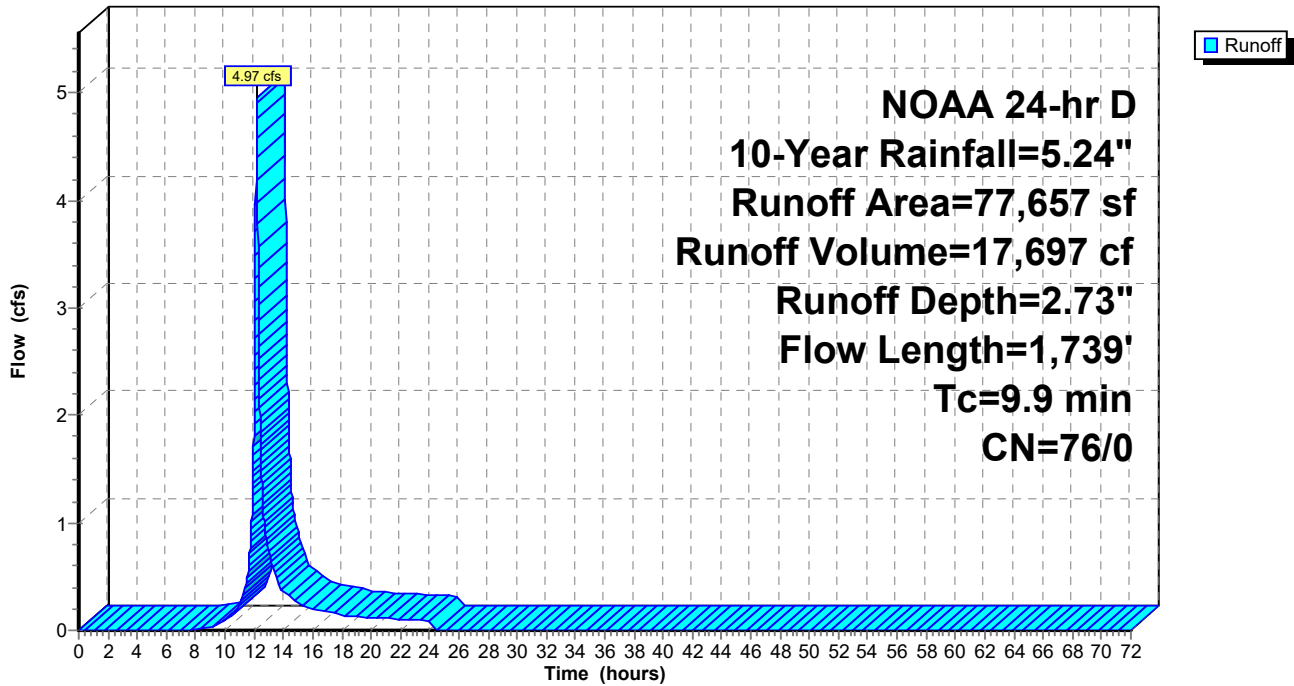
Area (sf)	CN	Description
15,074	77	Woods, Good, HSG D
25,472	80	>75% Grass cover, Good, HSG D
2,384	70	Woods, Good, HSG C
34,542	74	>75% Grass cover, Good, HSG C
185	61	>75% Grass cover, Good, HSG B
77,657	76	Weighted Average
77,657	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, A2p-B2p</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, B2p-C2p</b> Paved Kv= 20.3 fps
0.3	71	0.0050	3.72	4.57	<b>Pipe Channel, C2p-D2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	57	0.0093	5.08	6.23	<b>Pipe Channel, D2p-E2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	21	0.0093	5.08	6.23	<b>Pipe Channel, E2p-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
9.9	1,739	Total			



### Subcatchment P-2(P): Proposed Pervious to POI-2

Hydrograph



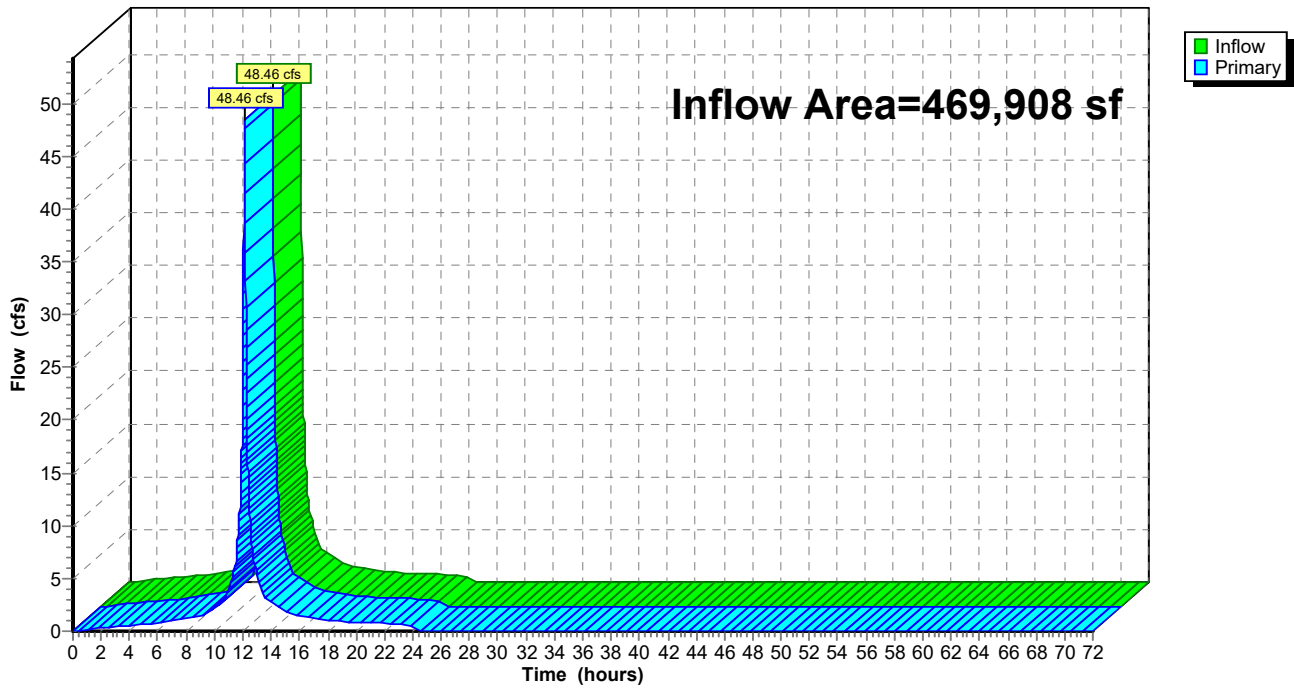
### Summary for Link EX-2: Existing Drainage to POI-2

Inflow Area = 469,908 sf, 83.82% Impervious, Inflow Depth = 4.64" for 10-Year event  
Inflow = 48.46 cfs @ 12.14 hrs, Volume= 181,536 cf  
Primary = 48.46 cfs @ 12.14 hrs, Volume= 181,536 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-2: Existing Drainage to POI-2

Hydrograph



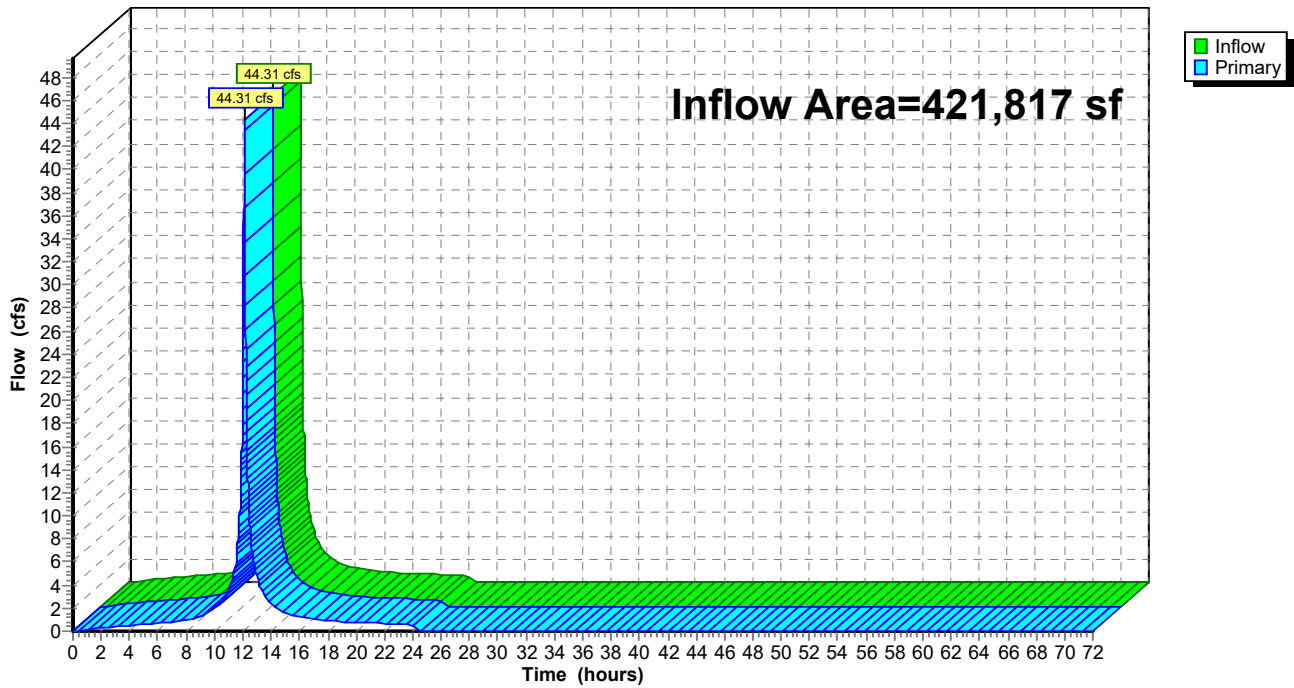
### Summary for Link P-2: Proposed to POI-2

Inflow Area = 421,817 sf, 81.59% Impervious, Inflow Depth = 4.59" for 10-Year event  
Inflow = 44.31 cfs @ 12.13 hrs, Volume= 161,177 cf  
Primary = 44.31 cfs @ 12.13 hrs, Volume= 161,177 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-2: Proposed to POI-2

Hydrograph



**Summary for Subcatchment EX-2(I): Existing Impervious to POI-2**

- [47] Hint: Peak is 1129% of capacity of segment #3
- [47] Hint: Peak is 1010% of capacity of segment #4
- [47] Hint: Peak is 372% of capacity of segment #5
- [47] Hint: Peak is 663% of capacity of segment #6
- [47] Hint: Peak is 599% of capacity of segment #7
- [47] Hint: Peak is 197% of capacity of segment #8
- [47] Hint: Peak is 185% of capacity of segment #9
- [47] Hint: Peak is 189% of capacity of segment #10
- [47] Hint: Peak is 216% of capacity of segment #11

Runoff = 70.36 cfs @ 12.14 hrs, Volume= 266,204 cf, Depth= 8.11"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	156,852	98	Impervious
*	237,038	98	MVS
	393,890	98	Weighted Average
	393,890	98	100.00% Impervious Area

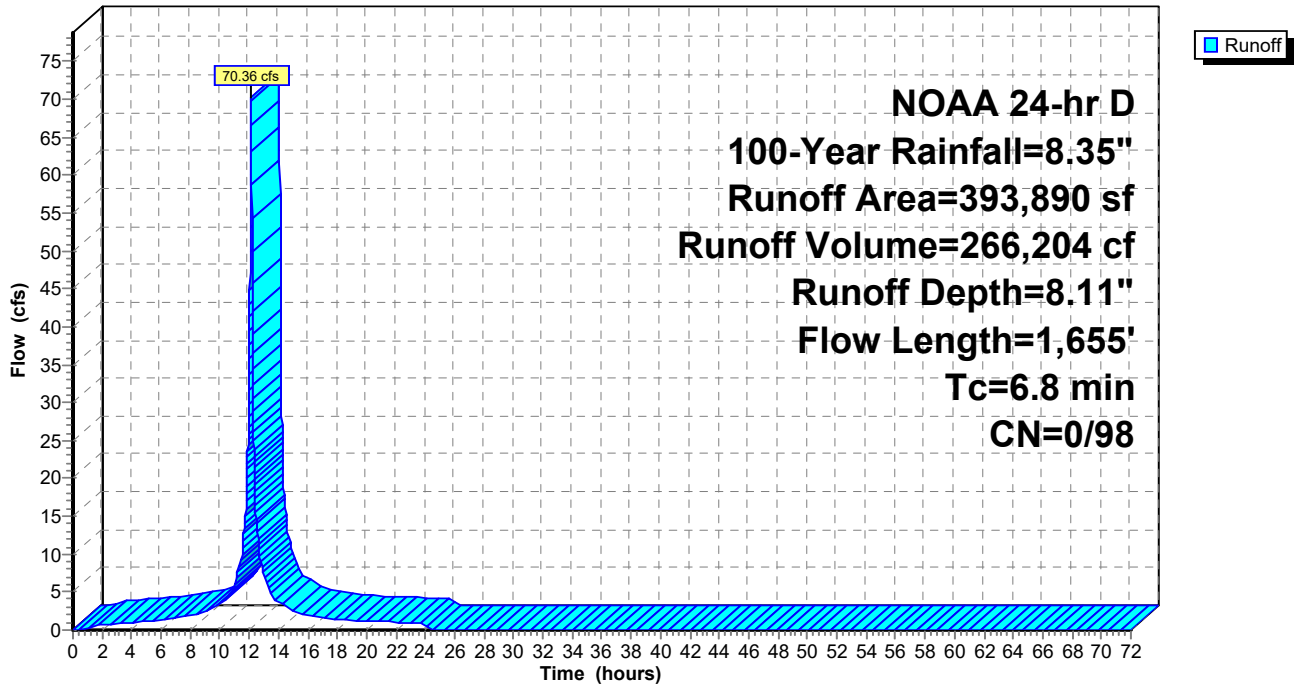
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0370	1.85		<b>Sheet Flow, 1bi-2bi</b> Smooth surfaces n= 0.011 P2= 3.54"
1.4	218	0.0171	2.65		<b>Shallow Concentrated Flow, 2bi-A</b> Paved Kv= 20.3 fps
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013

1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011

6.8 1,655 Total

### Subcatchment EX-2(I): Existing Impervious to POI-2

Hydrograph



**Summary for Subcatchment EX-2(P): Existing Pervious to POI-2**

[47] Hint: Peak is 209% of capacity of segment #3

[47] Hint: Peak is 153% of capacity of segment #4

[47] Hint: Peak is 137% of capacity of segment #5

Runoff = 9.53 cfs @ 12.17 hrs, Volume= 34,698 cf, Depth= 5.48"  
 Routed to Link EX-2 : Existing Drainage to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
19,218	77	Woods, Good, HSG D
21,619	80	>75% Grass cover, Good, HSG D
2,618	70	Woods, Good, HSG C
32,503	74	>75% Grass cover, Good, HSG C
60	61	>75% Grass cover, Good, HSG B
76,018	76	Weighted Average
76,018	76	100.00% Pervious Area

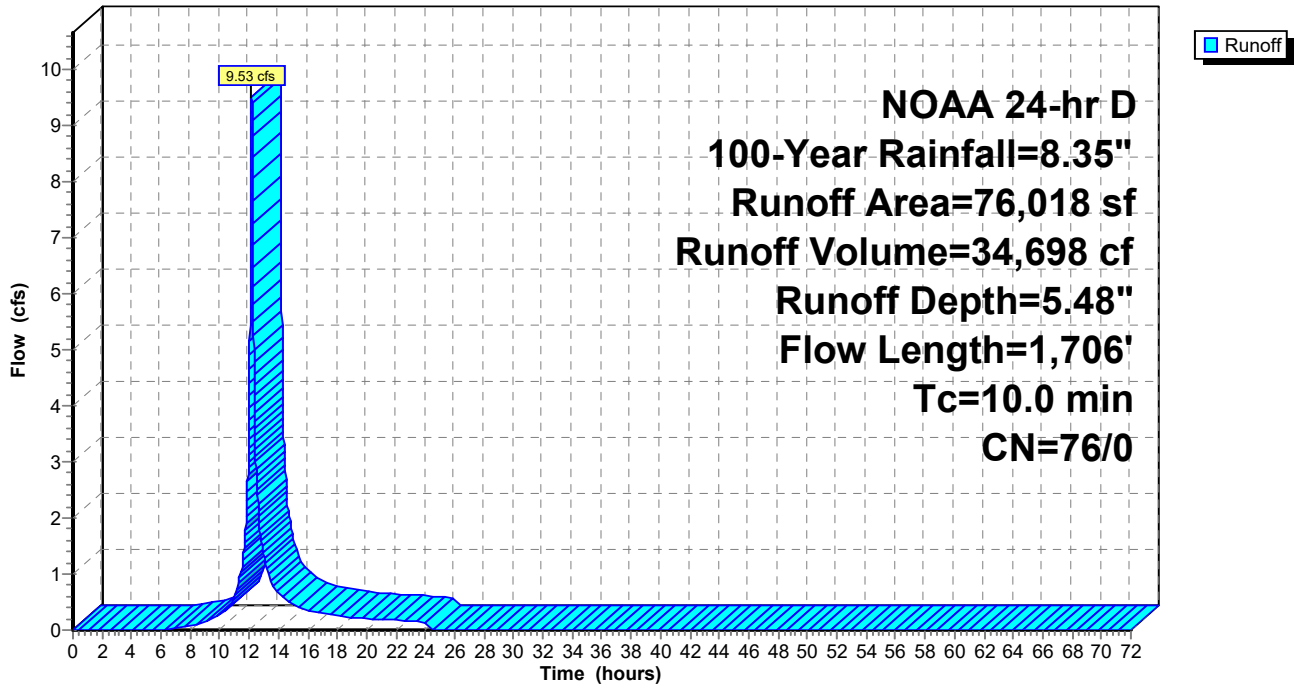
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, 1bp-2bp</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, 2bp-3bp</b> Paved Kv= 20.3 fps
0.2	48	0.0050	3.72	4.57	<b>Pipe Channel, 3bp-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.3	101	0.0093	5.08	6.23	<b>Pipe Channel, A-B</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.9	205	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	206	0.0070	6.02	18.93	<b>Pipe Channel, C-D</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	83	0.0022	3.38	10.61	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.8	182	0.0027	3.74	11.75	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, F-G</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, G-H</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013

1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, H-I</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, I-J</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011

10.0 1,706 Total

**Subcatchment EX-2(P): Existing Pervious to POI-2**

Hydrograph



**Summary for Subcatchment P-2(I): Proposed Impervious to POI-2**

- [47] Hint: Peak is 1248% of capacity of segment #3
- [47] Hint: Peak is 916% of capacity of segment #4
- [47] Hint: Peak is 916% of capacity of segment #5
- [47] Hint: Peak is 916% of capacity of segment #6
- [47] Hint: Peak is 337% of capacity of segment #7
- [47] Hint: Peak is 337% of capacity of segment #8
- [47] Hint: Peak is 337% of capacity of segment #9
- [47] Hint: Peak is 337% of capacity of segment #10
- [47] Hint: Peak is 337% of capacity of segment #11
- [47] Hint: Peak is 179% of capacity of segment #12
- [47] Hint: Peak is 168% of capacity of segment #13
- [47] Hint: Peak is 172% of capacity of segment #14
- [47] Hint: Peak is 196% of capacity of segment #15

Runoff = 63.83 cfs @ 12.13 hrs, Volume= 232,595 cf, Depth= 8.11"  
 Routed to Link P-2 : Proposed to POI-2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

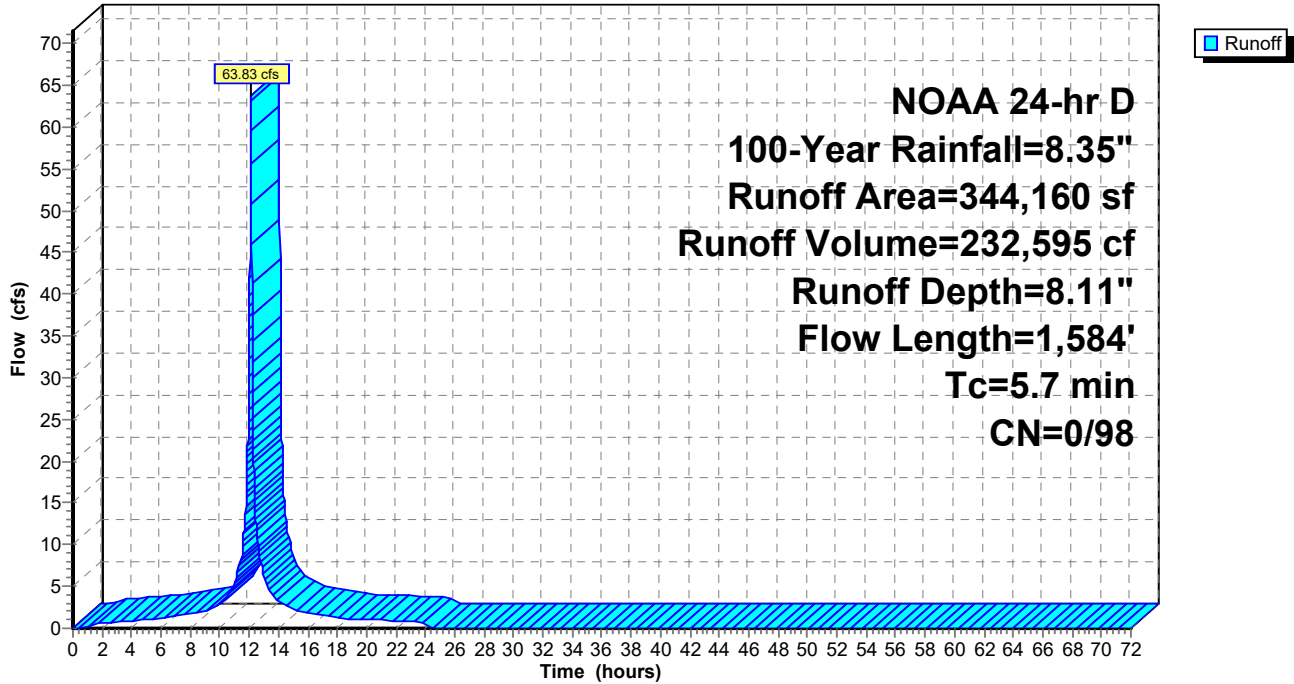
	Area (sf)	CN	Description
*	172,891	98	Impervious
*	171,269	98	Motor Vehicle Surface
	344,160	98	Weighted Average
	344,160	98	100.00% Impervious Area



Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0285	1.67		<b>Sheet Flow, A2i-B2i</b> Smooth surfaces n= 0.011 P2= 3.54"
0.3	67	0.0285	3.43		<b>Shallow Concentrated Flow, B2i-C2i</b> Paved Kv= 20.3 fps
0.4	148	0.0206	6.51	5.11	<b>Pipe Channel, C2i-A</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
5.7	1,584	Total			

### Subcatchment P-2(I): Proposed Impervious to POI-2

Hydrograph



**Summary for Subcatchment P-2(P): Proposed Pervious to POI-2**

- [47] Hint: Peak is 215% of capacity of segment #3
- [47] Hint: Peak is 157% of capacity of segment #4
- [47] Hint: Peak is 157% of capacity of segment #5
- [47] Hint: Peak is 141% of capacity of segment #6
- [47] Hint: Peak is 141% of capacity of segment #7
- [47] Hint: Peak is 141% of capacity of segment #8

Runoff = 9.81 cfs @ 12.17 hrs, Volume= 35,447 cf, Depth= 5.48"  
 Routed to Link P-2 : Proposed to POI-2

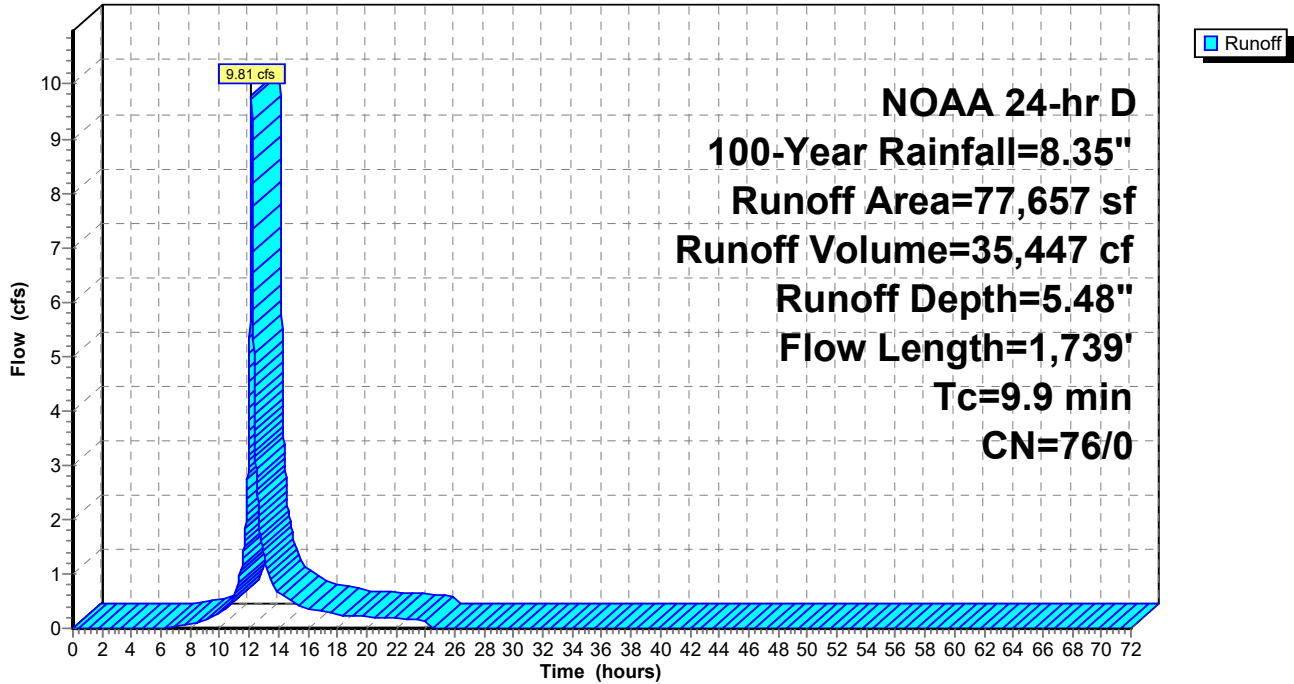
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
15,074	77	Woods, Good, HSG D
25,472	80	>75% Grass cover, Good, HSG D
2,384	70	Woods, Good, HSG C
34,542	74	>75% Grass cover, Good, HSG C
185	61	>75% Grass cover, Good, HSG B
77,657	76	Weighted Average
77,657	76	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	54	0.0722	0.26		<b>Sheet Flow, A2p-B2p</b> Grass: Short n= 0.150 P2= 3.54"
1.9	267	0.0133	2.34		<b>Shallow Concentrated Flow, B2p-C2p</b> Paved Kv= 20.3 fps
0.3	71	0.0050	3.72	4.57	<b>Pipe Channel, C2p-D2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	57	0.0093	5.08	6.23	<b>Pipe Channel, D2p-E2p</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.1	21	0.0093	5.08	6.23	<b>Pipe Channel, E2p-A</b> 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.6	132	0.0044	3.94	6.97	<b>Pipe Channel, A-B</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.3	72	0.0044	3.94	6.97	<b>Pipe Channel, B-C</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	133	0.0044	3.94	6.97	<b>Pipe Channel, C-D</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.1	27	0.0070	6.02	18.93	<b>Pipe Channel, D-E</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	59	0.0070	6.02	18.93	<b>Pipe Channel, E-F</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	84	0.0070	6.02	18.93	<b>Pipe Channel, F-G</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	151	0.0070	6.02	18.93	<b>Pipe Channel, G-H</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	51	0.0070	6.02	18.93	<b>Pipe Channel, H-I</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	58	0.0133	8.98	35.72	<b>Pipe Channel, I-J</b> 27.0" Round Area= 4.0 sf Perim= 7.1' r= 0.56' n= 0.013
0.3	141	0.0086	7.75	38.04	<b>Pipe Channel, J-K</b> 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.013
1.0	323	0.0031	5.25	37.14	<b>Pipe Channel, K-L</b> 36.0" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.1	38	0.0050	7.58	32.58	<b>Trap/Vee/Rect Channel Flow, L-M</b> Bot.W=4.00' D=1.00' Z= 0.3 '/' Top.W=4.60' n= 0.011
9.9	1,739	Total			

### Subcatchment P-2(P): Proposed Pervious to POI-2

Hydrograph



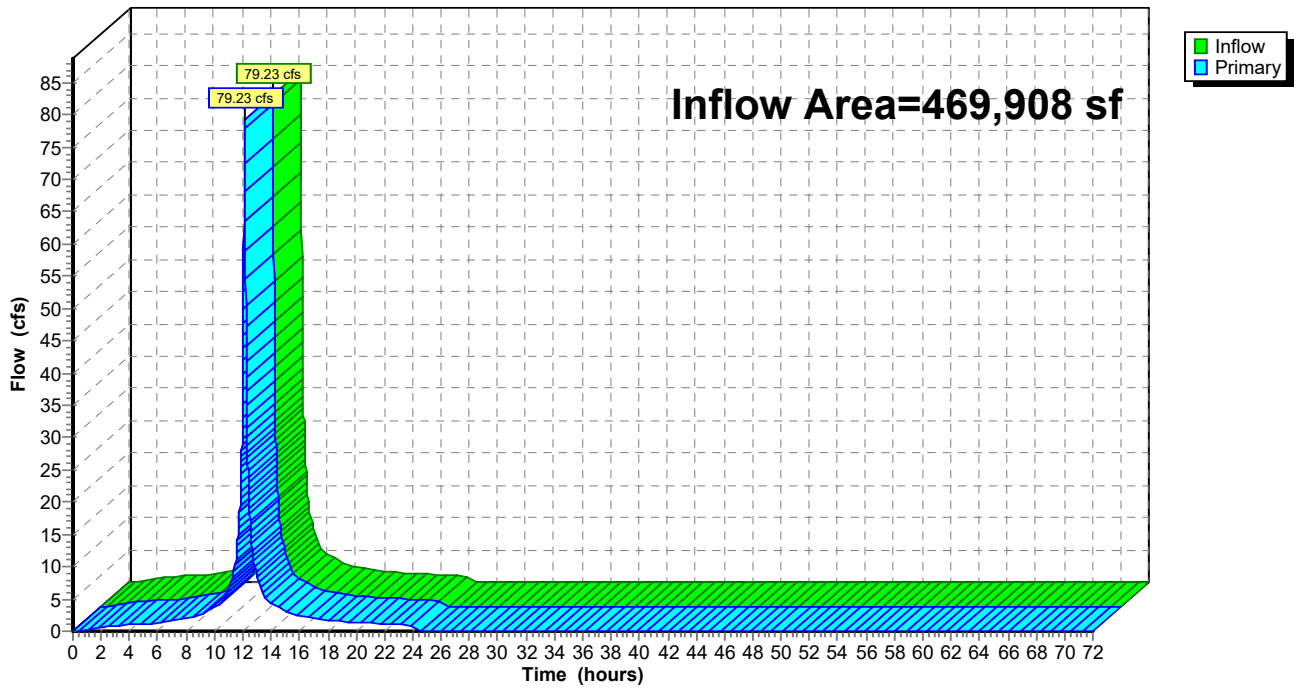
### Summary for Link EX-2: Existing Drainage to POI-2

Inflow Area = 469,908 sf, 83.82% Impervious, Inflow Depth = 7.68" for 100-Year event  
Inflow = 79.23 cfs @ 12.14 hrs, Volume= 300,902 cf  
Primary = 79.23 cfs @ 12.14 hrs, Volume= 300,902 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link EX-2: Existing Drainage to POI-2

Hydrograph



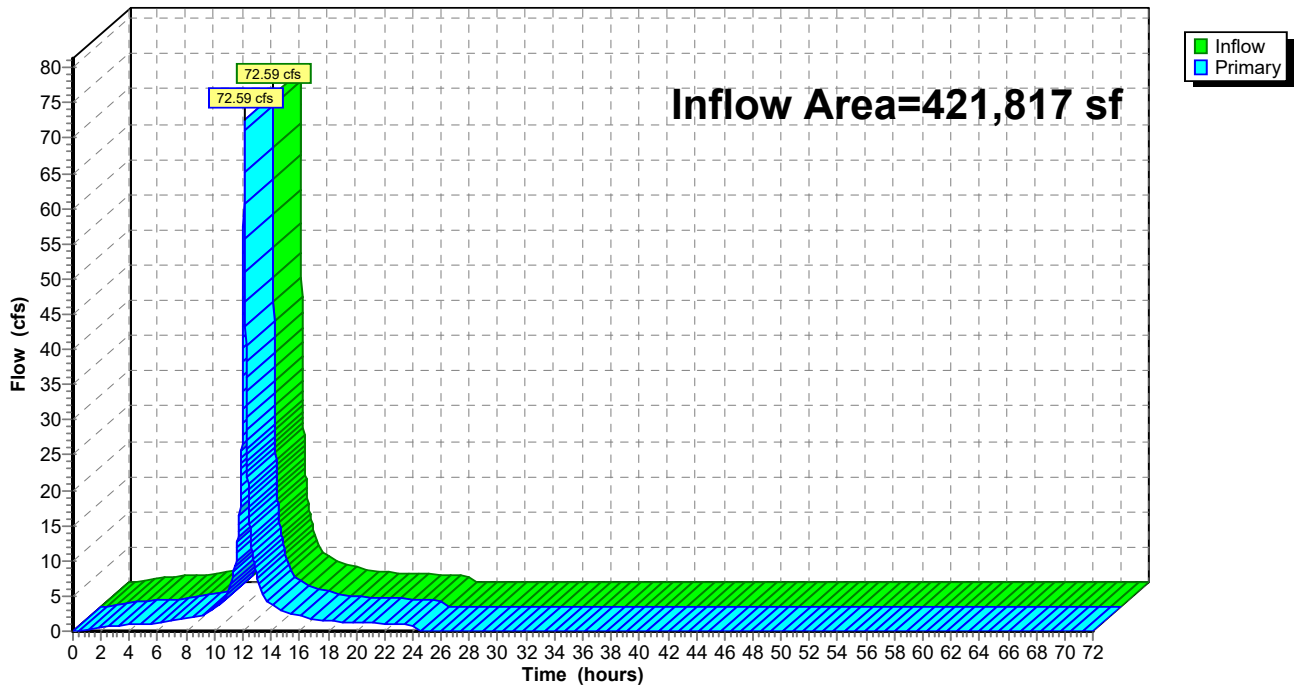
### Summary for Link P-2: Proposed to POI-2

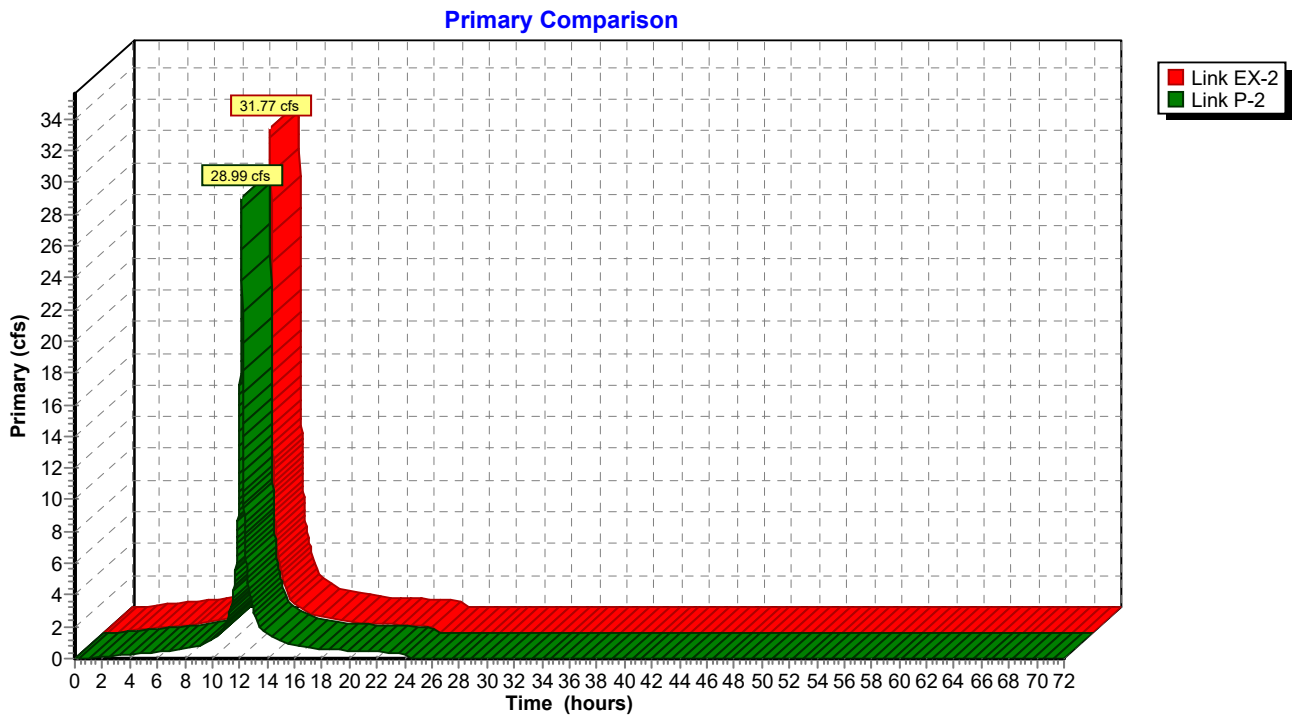
Inflow Area = 421,817 sf, 81.59% Impervious, Inflow Depth = 7.63" for 100-Year event  
Inflow = 72.59 cfs @ 12.13 hrs, Volume= 268,041 cf  
Primary = 72.59 cfs @ 12.13 hrs, Volume= 268,041 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

### Link P-2: Proposed to POI-2

Hydrograph







**Primary Comparison**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
0.00	0.00	0.00	2.60	0.19	0.17	5.20	0.40	0.35
0.05	0.00	0.00	2.65	0.20	0.17	5.25	0.41	0.36
0.10	0.00	0.00	2.70	0.20	0.18	5.30	0.41	0.36
0.15	0.00	0.00	2.75	0.21	0.18	5.35	0.41	0.36
0.20	0.00	0.00	2.80	0.21	0.19	5.40	0.42	0.36
0.25	0.00	0.00	2.85	0.22	0.19	5.45	0.42	0.37
0.30	0.00	0.00	2.90	0.22	0.20	5.50	0.42	0.37
0.35	0.00	0.00	2.95	0.23	0.20	5.55	0.43	0.37
0.40	0.00	0.00	3.00	0.23	0.20	5.60	0.43	0.37
0.45	0.00	0.00	3.05	0.24	0.21	5.65	0.43	0.38
0.50	0.00	0.00	3.10	0.24	0.21	5.70	0.43	0.38
0.55	0.00	0.00	3.15	0.25	0.22	5.75	0.44	0.38
0.60	0.00	0.00	3.20	0.25	0.22	5.80	0.44	0.39
0.65	0.00	0.00	3.25	0.26	0.22	5.85	0.44	0.39
0.70	0.00	0.00	3.30	0.26	0.23	5.90	0.45	0.39
0.75	0.00	0.00	3.35	0.26	0.23	5.95	0.45	0.39
0.80	0.00	0.00	3.40	0.27	0.24	6.00	0.45	0.40
0.85	0.00	0.00	3.45	0.27	0.24	6.05	0.46	0.40
0.90	0.00	0.00	3.50	0.28	0.24	6.10	0.46	0.41
0.95	0.00	0.00	3.55	0.28	0.25	6.15	0.47	0.41
1.00	0.00	0.00	3.60	0.29	0.25	6.20	0.48	0.42
1.05	0.00	0.00	3.65	0.29	0.25	6.25	0.48	0.42
1.10	0.00	0.00	3.70	0.29	0.26	6.30	0.49	0.43
1.15	0.01	0.01	3.75	0.30	0.26	6.35	0.50	0.44
1.20	0.01	0.01	3.80	0.30	0.26	6.40	0.51	0.45
1.25	0.02	0.02	3.85	0.31	0.27	6.45	0.51	0.45
1.30	0.03	0.03	3.90	0.31	0.27	6.50	0.52	0.46
1.35	0.04	0.03	3.95	0.31	0.28	6.55	0.53	0.46
1.40	0.04	0.04	4.00	0.32	0.28	6.60	0.54	0.47
1.45	0.05	0.05	4.05	0.32	0.28	6.65	0.54	0.48
1.50	0.06	0.05	4.10	0.33	0.29	6.70	0.55	0.48
1.55	0.07	0.06	4.15	0.33	0.29	6.75	0.56	0.49
1.60	0.07	0.07	4.20	0.33	0.29	6.80	0.57	0.50
1.65	0.08	0.07	4.25	0.34	0.30	6.85	0.57	0.50
1.70	0.09	0.08	4.30	0.34	0.30	6.90	0.58	0.51
1.75	0.09	0.08	4.35	0.34	0.30	6.95	0.59	0.52
1.80	0.10	0.09	4.40	0.35	0.31	7.00	0.60	0.52
1.85	0.11	0.09	4.45	0.35	0.31	7.05	0.60	0.53
1.90	0.11	0.10	4.50	0.36	0.31	7.10	0.61	0.54
1.95	0.12	0.11	4.55	0.36	0.31	7.15	0.62	0.54
2.00	0.12	0.11	4.60	0.36	0.32	7.20	0.63	0.55
2.05	0.13	0.12	4.65	0.37	0.32	7.25	0.64	0.56
2.10	0.14	0.12	4.70	0.37	0.32	7.30	0.64	0.56
2.15	0.14	0.13	4.75	0.37	0.33	7.35	0.65	0.57
2.20	0.15	0.13	4.80	0.38	0.33	7.40	0.66	0.58
2.25	0.15	0.14	4.85	0.38	0.33	7.45	0.67	0.58
2.30	0.16	0.14	4.90	0.38	0.34	7.50	0.67	0.59
2.35	0.17	0.15	4.95	0.39	0.34	7.55	0.68	0.60
2.40	0.17	0.15	5.00	0.39	0.34	7.60	0.69	0.60
2.45	0.18	0.16	5.05	0.39	0.34	7.65	0.70	0.61
2.50	0.18	0.16	5.10	0.40	0.35	7.70	0.70	0.62
2.55	0.19	0.16	5.15	0.40	0.35	7.75	0.71	0.62

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
7.80	0.72	0.63	10.40	1.62	1.43	13.00	3.58	3.13
7.85	0.73	0.64	10.45	1.65	1.45	13.05	3.42	3.00
7.90	0.74	0.64	10.50	1.68	1.48	13.10	3.22	2.81
7.95	0.74	0.65	10.55	1.72	1.52	13.15	3.07	2.70
8.00	0.75	0.66	10.60	1.81	1.61	13.20	2.93	2.58
8.05	0.76	0.67	10.65	1.88	1.67	13.25	2.83	2.50
8.10	0.77	0.67	10.70	1.99	1.77	13.30	2.72	2.39
8.15	0.78	0.68	10.75	2.07	1.84	13.35	2.62	2.31
8.20	0.78	0.69	10.80	2.18	1.94	13.40	2.51	2.20
8.25	0.79	0.69	10.85	2.27	2.01	13.45	2.42	2.13
8.30	0.80	0.70	10.90	2.37	2.11	13.50	2.30	2.02
8.35	0.80	0.71	10.95	2.46	2.18	13.55	2.21	1.94
8.40	0.81	0.72	11.00	2.57	2.28	13.60	2.09	1.83
8.45	0.82	0.72	11.05	2.67	2.38	13.65	2.01	1.78
8.50	0.83	0.73	11.10	2.84	2.54	13.70	1.96	1.73
8.55	0.84	0.73	11.15	2.99	2.67	13.75	1.93	1.71
8.60	0.84	0.74	11.20	3.18	2.84	13.80	1.89	1.68
8.65	0.85	0.75	11.25	3.33	2.97	13.85	1.87	1.66
8.70	0.86	0.76	11.30	3.52	3.15	13.90	1.84	1.63
8.75	0.87	0.76	11.35	3.68	3.27	13.95	1.81	1.60
8.80	0.88	0.77	11.40	3.87	3.46	14.00	1.78	1.58
8.85	0.88	0.77	11.45	4.03	3.59	14.05	1.75	1.56
8.90	0.89	0.78	11.50	4.22	3.77	14.10	1.72	1.53
8.95	0.90	0.79	11.55	4.49	4.06	14.15	1.70	1.51
9.00	0.91	0.80	11.60	5.21	4.80	14.20	1.67	1.48
9.05	0.92	0.81	11.65	5.75	5.17	14.25	1.64	1.45
9.10	0.94	0.83	11.70	6.08	5.43	14.30	1.61	1.43
9.15	0.96	0.85	11.75	6.47	5.87	14.35	1.59	1.41
9.20	0.99	0.87	11.80	7.56	6.99	14.40	1.55	1.37
9.25	1.01	0.89	11.85	8.64	7.97	14.45	1.53	1.35
9.30	1.04	0.92	11.90	10.43	9.69	14.50	1.50	1.32
9.35	1.06	0.94	11.95	12.43	11.68	14.55	1.47	1.30
9.40	1.09	0.96	12.00	16.72	15.99	14.60	1.44	1.27
9.45	1.11	0.98	12.05	20.99	19.93	14.65	1.42	1.25
9.50	1.14	1.00	12.10	<b>28.40</b>	<b>27.13</b>	14.70	1.38	1.22
9.55	1.16	1.02	12.15	<b>31.37</b>	<b>27.47</b>	14.75	1.36	1.20
9.60	1.19	1.05	12.20	23.32	18.17	14.80	1.33	1.17
9.65	1.21	1.07	12.25	16.42	13.17	14.85	1.30	1.15
9.70	1.24	1.09	12.30	12.45	10.11	14.90	1.27	1.12
9.75	1.26	1.11	12.35	10.26	8.57	14.95	1.24	1.10
9.80	1.30	1.14	12.40	8.44	7.04	15.00	1.21	1.07
9.85	1.32	1.16	12.45	7.36	6.34	15.05	1.19	1.05
9.90	1.35	1.19	12.50	6.84	5.97	15.10	1.16	1.02
9.95	1.37	1.21	12.55	6.46	5.62	15.15	1.13	1.01
10.00	1.40	1.24	12.60	5.68	4.83	15.20	1.12	0.99
10.05	1.43	1.26	12.65	5.10	4.42	15.25	1.11	0.99
10.10	1.46	1.28	12.70	4.75	4.14	15.30	1.10	0.98
10.15	1.48	1.30	12.75	4.53	3.98	15.35	1.09	0.97
10.20	1.51	1.33	12.80	4.31	3.78	15.40	1.08	0.96
10.25	1.54	1.35	12.85	4.15	3.64	15.45	1.08	0.96
10.30	1.57	1.38	12.90	3.94	3.45	15.50	1.07	0.95
10.35	1.59	1.40	12.95	3.78	3.32	15.55	1.06	0.94

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
15.60	1.05	0.93	18.20	0.64	0.57	20.80	0.53	0.48
15.65	1.04	0.93	18.25	0.64	0.57	20.85	0.53	0.47
15.70	1.04	0.92	18.30	0.63	0.56	20.90	0.53	0.47
15.75	1.03	0.92	18.35	0.63	0.56	20.95	0.53	0.47
15.80	1.02	0.91	18.40	0.63	0.56	21.00	0.53	0.47
15.85	1.01	0.90	18.45	0.63	0.56	21.05	0.52	0.47
15.90	1.00	0.89	18.50	0.63	0.56	21.10	0.52	0.46
15.95	1.00	0.89	18.55	0.62	0.55	21.15	0.52	0.46
16.00	0.99	0.88	18.60	0.62	0.55	21.20	0.52	0.46
16.05	0.98	0.87	18.65	0.62	0.55	21.25	0.52	0.46
16.10	0.97	0.86	18.70	0.62	0.55	21.30	0.51	0.46
16.15	0.97	0.86	18.75	0.62	0.55	21.35	0.51	0.46
16.20	0.95	0.85	18.80	0.61	0.55	21.40	0.51	0.45
16.25	0.95	0.84	18.85	0.61	0.55	21.45	0.51	0.45
16.30	0.94	0.84	18.90	0.61	0.54	21.50	0.51	0.45
16.35	0.93	0.83	18.95	0.61	0.54	21.55	0.50	0.45
16.40	0.92	0.82	19.00	0.61	0.54	21.60	0.50	0.45
16.45	0.92	0.81	19.05	0.60	0.54	21.65	0.50	0.44
16.50	0.91	0.81	19.10	0.60	0.54	21.70	0.50	0.44
16.55	0.90	0.80	19.15	0.60	0.53	21.75	0.50	0.44
16.60	0.89	0.79	19.20	0.60	0.53	21.80	0.49	0.44
16.65	0.88	0.79	19.25	0.60	0.53	21.85	0.49	0.44
16.70	0.88	0.78	19.30	0.59	0.53	21.90	0.49	0.44
16.75	0.87	0.77	19.35	0.59	0.53	21.95	0.49	0.43
16.80	0.86	0.76	19.40	0.59	0.52	22.00	0.49	0.43
16.85	0.85	0.76	19.45	0.59	0.52	22.05	0.48	0.43
16.90	0.84	0.75	19.50	0.59	0.52	22.10	0.48	0.43
16.95	0.84	0.74	19.55	0.58	0.52	22.15	0.48	0.43
17.00	0.83	0.73	19.60	0.58	0.52	22.20	0.48	0.43
17.05	0.82	0.73	19.65	0.58	0.52	22.25	0.48	0.42
17.10	0.81	0.72	19.70	0.58	0.52	22.30	0.47	0.42
17.15	0.80	0.71	19.75	0.58	0.51	22.35	0.47	0.42
17.20	0.79	0.71	19.80	0.57	0.51	22.40	0.47	0.42
17.25	0.79	0.70	19.85	0.57	0.51	22.45	0.47	0.42
17.30	0.78	0.69	19.90	0.57	0.51	22.50	0.46	0.41
17.35	0.77	0.69	19.95	0.57	0.51	22.55	0.46	0.41
17.40	0.76	0.68	20.00	0.57	0.50	22.60	0.46	0.41
17.45	0.75	0.67	20.05	0.56	0.50	22.65	0.46	0.41
17.50	0.75	0.66	20.10	0.56	0.50	22.70	0.46	0.41
17.55	0.74	0.66	20.15	0.56	0.50	22.75	0.46	0.41
17.60	0.73	0.65	20.20	0.56	0.50	22.80	0.45	0.40
17.65	0.72	0.64	20.25	0.56	0.50	22.85	0.45	0.40
17.70	0.71	0.63	20.30	0.55	0.49	22.90	0.45	0.40
17.75	0.71	0.63	20.35	0.55	0.49	22.95	0.45	0.40
17.80	0.70	0.62	20.40	0.55	0.49	23.00	0.44	0.40
17.85	0.69	0.61	20.45	0.55	0.49	23.05	0.44	0.39
17.90	0.68	0.61	20.50	0.55	0.49	23.10	0.44	0.39
17.95	0.67	0.60	20.55	0.54	0.48	23.15	0.44	0.39
18.00	0.67	0.59	20.60	0.54	0.48	23.20	0.44	0.39
18.05	0.66	0.59	20.65	0.54	0.48	23.25	0.43	0.39
18.10	0.65	0.58	20.70	0.54	0.48	23.30	0.43	0.38
18.15	0.64	0.57	20.75	0.54	0.48	23.35	0.43	0.38

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
23.40	0.43	0.38	26.00	0.00	0.00	28.60	0.00	0.00
23.45	0.43	0.38	26.05	0.00	0.00	28.65	0.00	0.00
23.50	0.42	0.38	26.10	0.00	0.00	28.70	0.00	0.00
23.55	0.42	0.38	26.15	0.00	0.00	28.75	0.00	0.00
23.60	0.42	0.37	26.20	0.00	0.00	28.80	0.00	0.00
23.65	0.42	0.37	26.25	0.00	0.00	28.85	0.00	0.00
23.70	0.42	0.37	26.30	0.00	0.00	28.90	0.00	0.00
23.75	0.42	0.37	26.35	0.00	0.00	28.95	0.00	0.00
23.80	0.41	0.37	26.40	0.00	0.00	29.00	0.00	0.00
23.85	0.41	0.36	26.45	0.00	0.00	29.05	0.00	0.00
23.90	0.41	0.36	26.50	0.00	0.00	29.10	0.00	0.00
23.95	0.41	0.36	26.55	0.00	0.00	29.15	0.00	0.00
24.00	0.41	0.36	26.60	0.00	0.00	29.20	0.00	0.00
24.05	0.37	0.31	26.65	0.00	0.00	29.25	0.00	0.00
24.10	0.20	0.13	26.70	0.00	0.00	29.30	0.00	0.00
24.15	0.08	0.05	26.75	0.00	0.00	29.35	0.00	0.00
24.20	0.03	0.02	26.80	0.00	0.00	29.40	0.00	0.00
24.25	0.01	0.01	26.85	0.00	0.00	29.45	0.00	0.00
24.30	0.00	0.00	26.90	0.00	0.00	29.50	0.00	0.00
24.35	0.00	0.00	26.95	0.00	0.00	29.55	0.00	0.00
24.40	0.00	0.00	27.00	0.00	0.00	29.60	0.00	0.00
24.45	0.00	0.00	27.05	0.00	0.00	29.65	0.00	0.00
24.50	0.00	0.00	27.10	0.00	0.00	29.70	0.00	0.00
24.55	0.00	0.00	27.15	0.00	0.00	29.75	0.00	0.00
24.60	0.00	0.00	27.20	0.00	0.00	29.80	0.00	0.00
24.65	0.00	0.00	27.25	0.00	0.00	29.85	0.00	0.00
24.70	0.00	0.00	27.30	0.00	0.00	29.90	0.00	0.00
24.75	0.00	0.00	27.35	0.00	0.00	29.95	0.00	0.00
24.80	0.00	0.00	27.40	0.00	0.00	30.00	0.00	0.00
24.85	0.00	0.00	27.45	0.00	0.00	30.05	0.00	0.00
24.90	0.00	0.00	27.50	0.00	0.00	30.10	0.00	0.00
24.95	0.00	0.00	27.55	0.00	0.00	30.15	0.00	0.00
25.00	0.00	0.00	27.60	0.00	0.00	30.20	0.00	0.00
25.05	0.00	0.00	27.65	0.00	0.00	30.25	0.00	0.00
25.10	0.00	0.00	27.70	0.00	0.00	30.30	0.00	0.00
25.15	0.00	0.00	27.75	0.00	0.00	30.35	0.00	0.00
25.20	0.00	0.00	27.80	0.00	0.00	30.40	0.00	0.00
25.25	0.00	0.00	27.85	0.00	0.00	30.45	0.00	0.00
25.30	0.00	0.00	27.90	0.00	0.00	30.50	0.00	0.00
25.35	0.00	0.00	27.95	0.00	0.00	30.55	0.00	0.00
25.40	0.00	0.00	28.00	0.00	0.00	30.60	0.00	0.00
25.45	0.00	0.00	28.05	0.00	0.00	30.65	0.00	0.00
25.50	0.00	0.00	28.10	0.00	0.00	30.70	0.00	0.00
25.55	0.00	0.00	28.15	0.00	0.00	30.75	0.00	0.00
25.60	0.00	0.00	28.20	0.00	0.00	30.80	0.00	0.00
25.65	0.00	0.00	28.25	0.00	0.00	30.85	0.00	0.00
25.70	0.00	0.00	28.30	0.00	0.00	30.90	0.00	0.00
25.75	0.00	0.00	28.35	0.00	0.00	30.95	0.00	0.00
25.80	0.00	0.00	28.40	0.00	0.00	31.00	0.00	0.00
25.85	0.00	0.00	28.45	0.00	0.00	31.05	0.00	0.00
25.90	0.00	0.00	28.50	0.00	0.00	31.10	0.00	0.00
25.95	0.00	0.00	28.55	0.00	0.00	31.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
31.20	0.00	0.00	33.80	0.00	0.00	36.40	0.00	0.00
31.25	0.00	0.00	33.85	0.00	0.00	36.45	0.00	0.00
31.30	0.00	0.00	33.90	0.00	0.00	36.50	0.00	0.00
31.35	0.00	0.00	33.95	0.00	0.00	36.55	0.00	0.00
31.40	0.00	0.00	34.00	0.00	0.00	36.60	0.00	0.00
31.45	0.00	0.00	34.05	0.00	0.00	36.65	0.00	0.00
31.50	0.00	0.00	34.10	0.00	0.00	36.70	0.00	0.00
31.55	0.00	0.00	34.15	0.00	0.00	36.75	0.00	0.00
31.60	0.00	0.00	34.20	0.00	0.00	36.80	0.00	0.00
31.65	0.00	0.00	34.25	0.00	0.00	36.85	0.00	0.00
31.70	0.00	0.00	34.30	0.00	0.00	36.90	0.00	0.00
31.75	0.00	0.00	34.35	0.00	0.00	36.95	0.00	0.00
31.80	0.00	0.00	34.40	0.00	0.00	37.00	0.00	0.00
31.85	0.00	0.00	34.45	0.00	0.00	37.05	0.00	0.00
31.90	0.00	0.00	34.50	0.00	0.00	37.10	0.00	0.00
31.95	0.00	0.00	34.55	0.00	0.00	37.15	0.00	0.00
32.00	0.00	0.00	34.60	0.00	0.00	37.20	0.00	0.00
32.05	0.00	0.00	34.65	0.00	0.00	37.25	0.00	0.00
32.10	0.00	0.00	34.70	0.00	0.00	37.30	0.00	0.00
32.15	0.00	0.00	34.75	0.00	0.00	37.35	0.00	0.00
32.20	0.00	0.00	34.80	0.00	0.00	37.40	0.00	0.00
32.25	0.00	0.00	34.85	0.00	0.00	37.45	0.00	0.00
32.30	0.00	0.00	34.90	0.00	0.00	37.50	0.00	0.00
32.35	0.00	0.00	34.95	0.00	0.00	37.55	0.00	0.00
32.40	0.00	0.00	35.00	0.00	0.00	37.60	0.00	0.00
32.45	0.00	0.00	35.05	0.00	0.00	37.65	0.00	0.00
32.50	0.00	0.00	35.10	0.00	0.00	37.70	0.00	0.00
32.55	0.00	0.00	35.15	0.00	0.00	37.75	0.00	0.00
32.60	0.00	0.00	35.20	0.00	0.00	37.80	0.00	0.00
32.65	0.00	0.00	35.25	0.00	0.00	37.85	0.00	0.00
32.70	0.00	0.00	35.30	0.00	0.00	37.90	0.00	0.00
32.75	0.00	0.00	35.35	0.00	0.00	37.95	0.00	0.00
32.80	0.00	0.00	35.40	0.00	0.00	38.00	0.00	0.00
32.85	0.00	0.00	35.45	0.00	0.00	38.05	0.00	0.00
32.90	0.00	0.00	35.50	0.00	0.00	38.10	0.00	0.00
32.95	0.00	0.00	35.55	0.00	0.00	38.15	0.00	0.00
33.00	0.00	0.00	35.60	0.00	0.00	38.20	0.00	0.00
33.05	0.00	0.00	35.65	0.00	0.00	38.25	0.00	0.00
33.10	0.00	0.00	35.70	0.00	0.00	38.30	0.00	0.00
33.15	0.00	0.00	35.75	0.00	0.00	38.35	0.00	0.00
33.20	0.00	0.00	35.80	0.00	0.00	38.40	0.00	0.00
33.25	0.00	0.00	35.85	0.00	0.00	38.45	0.00	0.00
33.30	0.00	0.00	35.90	0.00	0.00	38.50	0.00	0.00
33.35	0.00	0.00	35.95	0.00	0.00	38.55	0.00	0.00
33.40	0.00	0.00	36.00	0.00	0.00	38.60	0.00	0.00
33.45	0.00	0.00	36.05	0.00	0.00	38.65	0.00	0.00
33.50	0.00	0.00	36.10	0.00	0.00	38.70	0.00	0.00
33.55	0.00	0.00	36.15	0.00	0.00	38.75	0.00	0.00
33.60	0.00	0.00	36.20	0.00	0.00	38.80	0.00	0.00
33.65	0.00	0.00	36.25	0.00	0.00	38.85	0.00	0.00
33.70	0.00	0.00	36.30	0.00	0.00	38.90	0.00	0.00
33.75	0.00	0.00	36.35	0.00	0.00	38.95	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
39.00	0.00	0.00	41.60	0.00	0.00	44.20	0.00	0.00
39.05	0.00	0.00	41.65	0.00	0.00	44.25	0.00	0.00
39.10	0.00	0.00	41.70	0.00	0.00	44.30	0.00	0.00
39.15	0.00	0.00	41.75	0.00	0.00	44.35	0.00	0.00
39.20	0.00	0.00	41.80	0.00	0.00	44.40	0.00	0.00
39.25	0.00	0.00	41.85	0.00	0.00	44.45	0.00	0.00
39.30	0.00	0.00	41.90	0.00	0.00	44.50	0.00	0.00
39.35	0.00	0.00	41.95	0.00	0.00	44.55	0.00	0.00
39.40	0.00	0.00	42.00	0.00	0.00	44.60	0.00	0.00
39.45	0.00	0.00	42.05	0.00	0.00	44.65	0.00	0.00
39.50	0.00	0.00	42.10	0.00	0.00	44.70	0.00	0.00
39.55	0.00	0.00	42.15	0.00	0.00	44.75	0.00	0.00
39.60	0.00	0.00	42.20	0.00	0.00	44.80	0.00	0.00
39.65	0.00	0.00	42.25	0.00	0.00	44.85	0.00	0.00
39.70	0.00	0.00	42.30	0.00	0.00	44.90	0.00	0.00
39.75	0.00	0.00	42.35	0.00	0.00	44.95	0.00	0.00
39.80	0.00	0.00	42.40	0.00	0.00	45.00	0.00	0.00
39.85	0.00	0.00	42.45	0.00	0.00	45.05	0.00	0.00
39.90	0.00	0.00	42.50	0.00	0.00	45.10	0.00	0.00
39.95	0.00	0.00	42.55	0.00	0.00	45.15	0.00	0.00
40.00	0.00	0.00	42.60	0.00	0.00	45.20	0.00	0.00
40.05	0.00	0.00	42.65	0.00	0.00	45.25	0.00	0.00
40.10	0.00	0.00	42.70	0.00	0.00	45.30	0.00	0.00
40.15	0.00	0.00	42.75	0.00	0.00	45.35	0.00	0.00
40.20	0.00	0.00	42.80	0.00	0.00	45.40	0.00	0.00
40.25	0.00	0.00	42.85	0.00	0.00	45.45	0.00	0.00
40.30	0.00	0.00	42.90	0.00	0.00	45.50	0.00	0.00
40.35	0.00	0.00	42.95	0.00	0.00	45.55	0.00	0.00
40.40	0.00	0.00	43.00	0.00	0.00	45.60	0.00	0.00
40.45	0.00	0.00	43.05	0.00	0.00	45.65	0.00	0.00
40.50	0.00	0.00	43.10	0.00	0.00	45.70	0.00	0.00
40.55	0.00	0.00	43.15	0.00	0.00	45.75	0.00	0.00
40.60	0.00	0.00	43.20	0.00	0.00	45.80	0.00	0.00
40.65	0.00	0.00	43.25	0.00	0.00	45.85	0.00	0.00
40.70	0.00	0.00	43.30	0.00	0.00	45.90	0.00	0.00
40.75	0.00	0.00	43.35	0.00	0.00	45.95	0.00	0.00
40.80	0.00	0.00	43.40	0.00	0.00	46.00	0.00	0.00
40.85	0.00	0.00	43.45	0.00	0.00	46.05	0.00	0.00
40.90	0.00	0.00	43.50	0.00	0.00	46.10	0.00	0.00
40.95	0.00	0.00	43.55	0.00	0.00	46.15	0.00	0.00
41.00	0.00	0.00	43.60	0.00	0.00	46.20	0.00	0.00
41.05	0.00	0.00	43.65	0.00	0.00	46.25	0.00	0.00
41.10	0.00	0.00	43.70	0.00	0.00	46.30	0.00	0.00
41.15	0.00	0.00	43.75	0.00	0.00	46.35	0.00	0.00
41.20	0.00	0.00	43.80	0.00	0.00	46.40	0.00	0.00
41.25	0.00	0.00	43.85	0.00	0.00	46.45	0.00	0.00
41.30	0.00	0.00	43.90	0.00	0.00	46.50	0.00	0.00
41.35	0.00	0.00	43.95	0.00	0.00	46.55	0.00	0.00
41.40	0.00	0.00	44.00	0.00	0.00	46.60	0.00	0.00
41.45	0.00	0.00	44.05	0.00	0.00	46.65	0.00	0.00
41.50	0.00	0.00	44.10	0.00	0.00	46.70	0.00	0.00
41.55	0.00	0.00	44.15	0.00	0.00	46.75	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
46.80	0.00	0.00	49.40	0.00	0.00	52.00	0.00	0.00
46.85	0.00	0.00	49.45	0.00	0.00	52.05	0.00	0.00
46.90	0.00	0.00	49.50	0.00	0.00	52.10	0.00	0.00
46.95	0.00	0.00	49.55	0.00	0.00	52.15	0.00	0.00
47.00	0.00	0.00	49.60	0.00	0.00	52.20	0.00	0.00
47.05	0.00	0.00	49.65	0.00	0.00	52.25	0.00	0.00
47.10	0.00	0.00	49.70	0.00	0.00	52.30	0.00	0.00
47.15	0.00	0.00	49.75	0.00	0.00	52.35	0.00	0.00
47.20	0.00	0.00	49.80	0.00	0.00	52.40	0.00	0.00
47.25	0.00	0.00	49.85	0.00	0.00	52.45	0.00	0.00
47.30	0.00	0.00	49.90	0.00	0.00	52.50	0.00	0.00
47.35	0.00	0.00	49.95	0.00	0.00	52.55	0.00	0.00
47.40	0.00	0.00	50.00	0.00	0.00	52.60	0.00	0.00
47.45	0.00	0.00	50.05	0.00	0.00	52.65	0.00	0.00
47.50	0.00	0.00	50.10	0.00	0.00	52.70	0.00	0.00
47.55	0.00	0.00	50.15	0.00	0.00	52.75	0.00	0.00
47.60	0.00	0.00	50.20	0.00	0.00	52.80	0.00	0.00
47.65	0.00	0.00	50.25	0.00	0.00	52.85	0.00	0.00
47.70	0.00	0.00	50.30	0.00	0.00	52.90	0.00	0.00
47.75	0.00	0.00	50.35	0.00	0.00	52.95	0.00	0.00
47.80	0.00	0.00	50.40	0.00	0.00	53.00	0.00	0.00
47.85	0.00	0.00	50.45	0.00	0.00	53.05	0.00	0.00
47.90	0.00	0.00	50.50	0.00	0.00	53.10	0.00	0.00
47.95	0.00	0.00	50.55	0.00	0.00	53.15	0.00	0.00
48.00	0.00	0.00	50.60	0.00	0.00	53.20	0.00	0.00
48.05	0.00	0.00	50.65	0.00	0.00	53.25	0.00	0.00
48.10	0.00	0.00	50.70	0.00	0.00	53.30	0.00	0.00
48.15	0.00	0.00	50.75	0.00	0.00	53.35	0.00	0.00
48.20	0.00	0.00	50.80	0.00	0.00	53.40	0.00	0.00
48.25	0.00	0.00	50.85	0.00	0.00	53.45	0.00	0.00
48.30	0.00	0.00	50.90	0.00	0.00	53.50	0.00	0.00
48.35	0.00	0.00	50.95	0.00	0.00	53.55	0.00	0.00
48.40	0.00	0.00	51.00	0.00	0.00	53.60	0.00	0.00
48.45	0.00	0.00	51.05	0.00	0.00	53.65	0.00	0.00
48.50	0.00	0.00	51.10	0.00	0.00	53.70	0.00	0.00
48.55	0.00	0.00	51.15	0.00	0.00	53.75	0.00	0.00
48.60	0.00	0.00	51.20	0.00	0.00	53.80	0.00	0.00
48.65	0.00	0.00	51.25	0.00	0.00	53.85	0.00	0.00
48.70	0.00	0.00	51.30	0.00	0.00	53.90	0.00	0.00
48.75	0.00	0.00	51.35	0.00	0.00	53.95	0.00	0.00
48.80	0.00	0.00	51.40	0.00	0.00	54.00	0.00	0.00
48.85	0.00	0.00	51.45	0.00	0.00	54.05	0.00	0.00
48.90	0.00	0.00	51.50	0.00	0.00	54.10	0.00	0.00
48.95	0.00	0.00	51.55	0.00	0.00	54.15	0.00	0.00
49.00	0.00	0.00	51.60	0.00	0.00	54.20	0.00	0.00
49.05	0.00	0.00	51.65	0.00	0.00	54.25	0.00	0.00
49.10	0.00	0.00	51.70	0.00	0.00	54.30	0.00	0.00
49.15	0.00	0.00	51.75	0.00	0.00	54.35	0.00	0.00
49.20	0.00	0.00	51.80	0.00	0.00	54.40	0.00	0.00
49.25	0.00	0.00	51.85	0.00	0.00	54.45	0.00	0.00
49.30	0.00	0.00	51.90	0.00	0.00	54.50	0.00	0.00
49.35	0.00	0.00	51.95	0.00	0.00	54.55	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
54.60	0.00	0.00	57.20	0.00	0.00	59.80	0.00	0.00
54.65	0.00	0.00	57.25	0.00	0.00	59.85	0.00	0.00
54.70	0.00	0.00	57.30	0.00	0.00	59.90	0.00	0.00
54.75	0.00	0.00	57.35	0.00	0.00	59.95	0.00	0.00
54.80	0.00	0.00	57.40	0.00	0.00	60.00	0.00	0.00
54.85	0.00	0.00	57.45	0.00	0.00	60.05	0.00	0.00
54.90	0.00	0.00	57.50	0.00	0.00	60.10	0.00	0.00
54.95	0.00	0.00	57.55	0.00	0.00	60.15	0.00	0.00
55.00	0.00	0.00	57.60	0.00	0.00	60.20	0.00	0.00
55.05	0.00	0.00	57.65	0.00	0.00	60.25	0.00	0.00
55.10	0.00	0.00	57.70	0.00	0.00	60.30	0.00	0.00
55.15	0.00	0.00	57.75	0.00	0.00	60.35	0.00	0.00
55.20	0.00	0.00	57.80	0.00	0.00	60.40	0.00	0.00
55.25	0.00	0.00	57.85	0.00	0.00	60.45	0.00	0.00
55.30	0.00	0.00	57.90	0.00	0.00	60.50	0.00	0.00
55.35	0.00	0.00	57.95	0.00	0.00	60.55	0.00	0.00
55.40	0.00	0.00	58.00	0.00	0.00	60.60	0.00	0.00
55.45	0.00	0.00	58.05	0.00	0.00	60.65	0.00	0.00
55.50	0.00	0.00	58.10	0.00	0.00	60.70	0.00	0.00
55.55	0.00	0.00	58.15	0.00	0.00	60.75	0.00	0.00
55.60	0.00	0.00	58.20	0.00	0.00	60.80	0.00	0.00
55.65	0.00	0.00	58.25	0.00	0.00	60.85	0.00	0.00
55.70	0.00	0.00	58.30	0.00	0.00	60.90	0.00	0.00
55.75	0.00	0.00	58.35	0.00	0.00	60.95	0.00	0.00
55.80	0.00	0.00	58.40	0.00	0.00	61.00	0.00	0.00
55.85	0.00	0.00	58.45	0.00	0.00	61.05	0.00	0.00
55.90	0.00	0.00	58.50	0.00	0.00	61.10	0.00	0.00
55.95	0.00	0.00	58.55	0.00	0.00	61.15	0.00	0.00
56.00	0.00	0.00	58.60	0.00	0.00	61.20	0.00	0.00
56.05	0.00	0.00	58.65	0.00	0.00	61.25	0.00	0.00
56.10	0.00	0.00	58.70	0.00	0.00	61.30	0.00	0.00
56.15	0.00	0.00	58.75	0.00	0.00	61.35	0.00	0.00
56.20	0.00	0.00	58.80	0.00	0.00	61.40	0.00	0.00
56.25	0.00	0.00	58.85	0.00	0.00	61.45	0.00	0.00
56.30	0.00	0.00	58.90	0.00	0.00	61.50	0.00	0.00
56.35	0.00	0.00	58.95	0.00	0.00	61.55	0.00	0.00
56.40	0.00	0.00	59.00	0.00	0.00	61.60	0.00	0.00
56.45	0.00	0.00	59.05	0.00	0.00	61.65	0.00	0.00
56.50	0.00	0.00	59.10	0.00	0.00	61.70	0.00	0.00
56.55	0.00	0.00	59.15	0.00	0.00	61.75	0.00	0.00
56.60	0.00	0.00	59.20	0.00	0.00	61.80	0.00	0.00
56.65	0.00	0.00	59.25	0.00	0.00	61.85	0.00	0.00
56.70	0.00	0.00	59.30	0.00	0.00	61.90	0.00	0.00
56.75	0.00	0.00	59.35	0.00	0.00	61.95	0.00	0.00
56.80	0.00	0.00	59.40	0.00	0.00	62.00	0.00	0.00
56.85	0.00	0.00	59.45	0.00	0.00	62.05	0.00	0.00
56.90	0.00	0.00	59.50	0.00	0.00	62.10	0.00	0.00
56.95	0.00	0.00	59.55	0.00	0.00	62.15	0.00	0.00
57.00	0.00	0.00	59.60	0.00	0.00	62.20	0.00	0.00
57.05	0.00	0.00	59.65	0.00	0.00	62.25	0.00	0.00
57.10	0.00	0.00	59.70	0.00	0.00	62.30	0.00	0.00
57.15	0.00	0.00	59.75	0.00	0.00	62.35	0.00	0.00

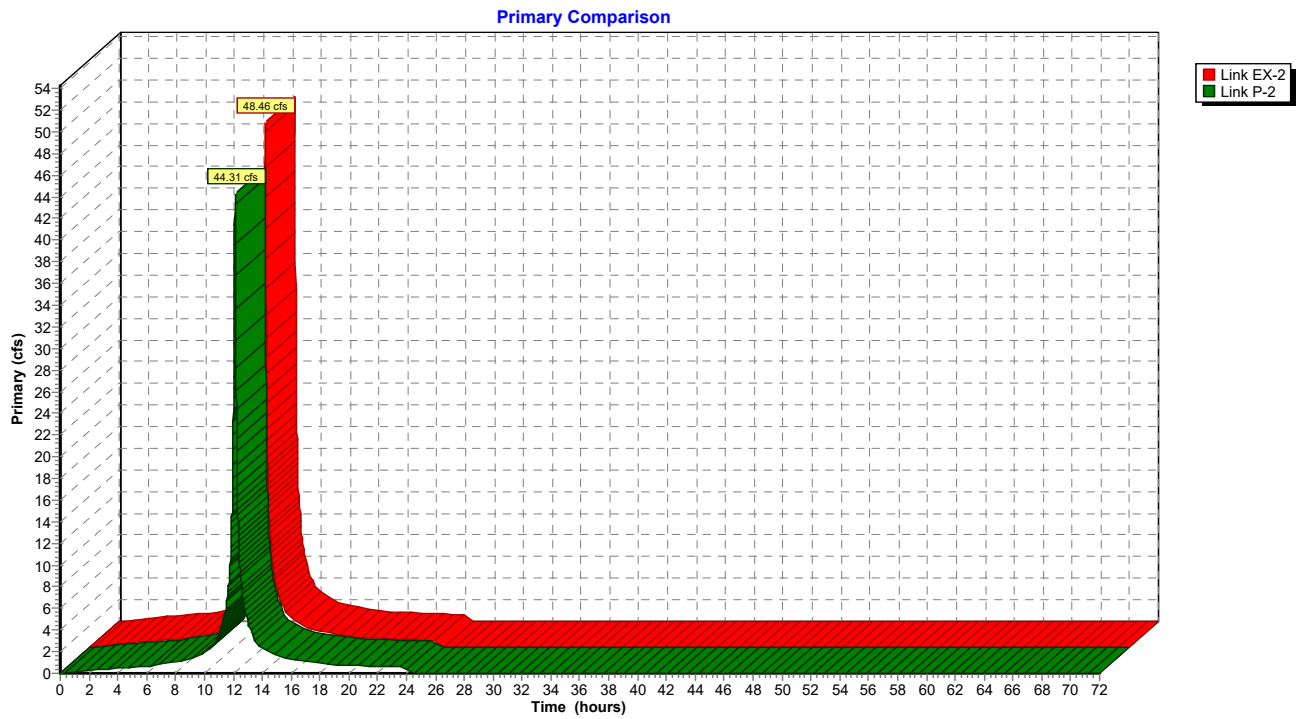


**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
62.40	0.00	0.00	65.00	0.00	0.00	67.60	0.00	0.00
62.45	0.00	0.00	65.05	0.00	0.00	67.65	0.00	0.00
62.50	0.00	0.00	65.10	0.00	0.00	67.70	0.00	0.00
62.55	0.00	0.00	65.15	0.00	0.00	67.75	0.00	0.00
62.60	0.00	0.00	65.20	0.00	0.00	67.80	0.00	0.00
62.65	0.00	0.00	65.25	0.00	0.00	67.85	0.00	0.00
62.70	0.00	0.00	65.30	0.00	0.00	67.90	0.00	0.00
62.75	0.00	0.00	65.35	0.00	0.00	67.95	0.00	0.00
62.80	0.00	0.00	65.40	0.00	0.00	68.00	0.00	0.00
62.85	0.00	0.00	65.45	0.00	0.00	68.05	0.00	0.00
62.90	0.00	0.00	65.50	0.00	0.00	68.10	0.00	0.00
62.95	0.00	0.00	65.55	0.00	0.00	68.15	0.00	0.00
63.00	0.00	0.00	65.60	0.00	0.00	68.20	0.00	0.00
63.05	0.00	0.00	65.65	0.00	0.00	68.25	0.00	0.00
63.10	0.00	0.00	65.70	0.00	0.00	68.30	0.00	0.00
63.15	0.00	0.00	65.75	0.00	0.00	68.35	0.00	0.00
63.20	0.00	0.00	65.80	0.00	0.00	68.40	0.00	0.00
63.25	0.00	0.00	65.85	0.00	0.00	68.45	0.00	0.00
63.30	0.00	0.00	65.90	0.00	0.00	68.50	0.00	0.00
63.35	0.00	0.00	65.95	0.00	0.00	68.55	0.00	0.00
63.40	0.00	0.00	66.00	0.00	0.00	68.60	0.00	0.00
63.45	0.00	0.00	66.05	0.00	0.00	68.65	0.00	0.00
63.50	0.00	0.00	66.10	0.00	0.00	68.70	0.00	0.00
63.55	0.00	0.00	66.15	0.00	0.00	68.75	0.00	0.00
63.60	0.00	0.00	66.20	0.00	0.00	68.80	0.00	0.00
63.65	0.00	0.00	66.25	0.00	0.00	68.85	0.00	0.00
63.70	0.00	0.00	66.30	0.00	0.00	68.90	0.00	0.00
63.75	0.00	0.00	66.35	0.00	0.00	68.95	0.00	0.00
63.80	0.00	0.00	66.40	0.00	0.00	69.00	0.00	0.00
63.85	0.00	0.00	66.45	0.00	0.00	69.05	0.00	0.00
63.90	0.00	0.00	66.50	0.00	0.00	69.10	0.00	0.00
63.95	0.00	0.00	66.55	0.00	0.00	69.15	0.00	0.00
64.00	0.00	0.00	66.60	0.00	0.00	69.20	0.00	0.00
64.05	0.00	0.00	66.65	0.00	0.00	69.25	0.00	0.00
64.10	0.00	0.00	66.70	0.00	0.00	69.30	0.00	0.00
64.15	0.00	0.00	66.75	0.00	0.00	69.35	0.00	0.00
64.20	0.00	0.00	66.80	0.00	0.00	69.40	0.00	0.00
64.25	0.00	0.00	66.85	0.00	0.00	69.45	0.00	0.00
64.30	0.00	0.00	66.90	0.00	0.00	69.50	0.00	0.00
64.35	0.00	0.00	66.95	0.00	0.00	69.55	0.00	0.00
64.40	0.00	0.00	67.00	0.00	0.00	69.60	0.00	0.00
64.45	0.00	0.00	67.05	0.00	0.00	69.65	0.00	0.00
64.50	0.00	0.00	67.10	0.00	0.00	69.70	0.00	0.00
64.55	0.00	0.00	67.15	0.00	0.00	69.75	0.00	0.00
64.60	0.00	0.00	67.20	0.00	0.00	69.80	0.00	0.00
64.65	0.00	0.00	67.25	0.00	0.00	69.85	0.00	0.00
64.70	0.00	0.00	67.30	0.00	0.00	69.90	0.00	0.00
64.75	0.00	0.00	67.35	0.00	0.00	69.95	0.00	0.00
64.80	0.00	0.00	67.40	0.00	0.00	70.00	0.00	0.00
64.85	0.00	0.00	67.45	0.00	0.00	70.05	0.00	0.00
64.90	0.00	0.00	67.50	0.00	0.00	70.10	0.00	0.00
64.95	0.00	0.00	67.55	0.00	0.00	70.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
70.20	0.00	0.00
70.25	0.00	0.00
70.30	0.00	0.00
70.35	0.00	0.00
70.40	0.00	0.00
70.45	0.00	0.00
70.50	0.00	0.00
70.55	0.00	0.00
70.60	0.00	0.00
70.65	0.00	0.00
70.70	0.00	0.00
70.75	0.00	0.00
70.80	0.00	0.00
70.85	0.00	0.00
70.90	0.00	0.00
70.95	0.00	0.00
71.00	0.00	0.00
71.05	0.00	0.00
71.10	0.00	0.00
71.15	0.00	0.00
71.20	0.00	0.00
71.25	0.00	0.00
71.30	0.00	0.00
71.35	0.00	0.00
71.40	0.00	0.00
71.45	0.00	0.00
71.50	0.00	0.00
71.55	0.00	0.00
71.60	0.00	0.00
71.65	0.00	0.00
71.70	0.00	0.00
71.75	0.00	0.00
71.80	0.00	0.00
71.85	0.00	0.00
71.90	0.00	0.00
71.95	0.00	0.00
72.00	0.00	0.00



**Primary Comparison**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
0.00	0.00	0.00	2.60	0.39	0.35	5.20	0.67	0.59
0.05	0.00	0.00	2.65	0.40	0.35	5.25	0.68	0.59
0.10	0.00	0.00	2.70	0.41	0.36	5.30	0.68	0.60
0.15	0.00	0.00	2.75	0.42	0.37	5.35	0.69	0.60
0.20	0.00	0.00	2.80	0.42	0.37	5.40	0.69	0.60
0.25	0.00	0.00	2.85	0.43	0.38	5.45	0.69	0.61
0.30	0.00	0.00	2.90	0.44	0.38	5.50	0.70	0.61
0.35	0.00	0.00	2.95	0.44	0.39	5.55	0.70	0.62
0.40	0.00	0.00	3.00	0.45	0.39	5.60	0.71	0.62
0.45	0.00	0.00	3.05	0.45	0.40	5.65	0.71	0.62
0.50	0.00	0.00	3.10	0.46	0.40	5.70	0.71	0.63
0.55	0.00	0.00	3.15	0.47	0.41	5.75	0.72	0.63
0.60	0.00	0.00	3.20	0.47	0.42	5.80	0.72	0.63
0.65	0.00	0.00	3.25	0.48	0.42	5.85	0.73	0.64
0.70	0.00	0.00	3.30	0.49	0.43	5.90	0.73	0.64
0.75	0.00	0.00	3.35	0.49	0.43	5.95	0.73	0.64
0.80	0.01	0.01	3.40	0.50	0.44	6.00	0.74	0.65
0.85	0.02	0.02	3.45	0.50	0.44	6.05	0.74	0.65
0.90	0.03	0.03	3.50	0.51	0.45	6.10	0.75	0.66
0.95	0.05	0.05	3.55	0.52	0.45	6.15	0.76	0.67
1.00	0.06	0.06	3.60	0.52	0.46	6.20	0.77	0.68
1.05	0.08	0.07	3.65	0.53	0.46	6.25	0.78	0.69
1.10	0.09	0.08	3.70	0.53	0.47	6.30	0.80	0.70
1.15	0.11	0.10	3.75	0.54	0.47	6.35	0.81	0.71
1.20	0.12	0.11	3.80	0.54	0.47	6.40	0.82	0.72
1.25	0.13	0.12	3.85	0.55	0.48	6.45	0.83	0.73
1.30	0.15	0.13	3.90	0.55	0.48	6.50	0.84	0.74
1.35	0.16	0.14	3.95	0.56	0.49	6.55	0.85	0.74
1.40	0.17	0.15	4.00	0.56	0.49	6.60	0.86	0.76
1.45	0.18	0.16	4.05	0.57	0.50	6.65	0.87	0.76
1.50	0.19	0.17	4.10	0.57	0.50	6.70	0.88	0.78
1.55	0.20	0.18	4.15	0.58	0.51	6.75	0.89	0.78
1.60	0.22	0.19	4.20	0.58	0.51	6.80	0.91	0.80
1.65	0.23	0.20	4.25	0.59	0.52	6.85	0.92	0.80
1.70	0.24	0.21	4.30	0.59	0.52	6.90	0.93	0.81
1.75	0.25	0.22	4.35	0.60	0.52	6.95	0.94	0.82
1.80	0.26	0.23	4.40	0.60	0.53	7.00	0.95	0.84
1.85	0.27	0.24	4.45	0.61	0.53	7.05	0.96	0.84
1.90	0.28	0.25	4.50	0.61	0.54	7.10	0.97	0.85
1.95	0.29	0.25	4.55	0.62	0.54	7.15	0.98	0.86
2.00	0.30	0.26	4.60	0.62	0.55	7.20	1.00	0.87
2.05	0.30	0.27	4.65	0.63	0.55	7.25	1.01	0.88
2.10	0.31	0.28	4.70	0.63	0.55	7.30	1.02	0.89
2.15	0.32	0.28	4.75	0.63	0.55	7.35	1.03	0.90
2.20	0.33	0.29	4.80	0.64	0.56	7.40	1.04	0.91
2.25	0.34	0.30	4.85	0.64	0.56	7.45	1.05	0.92
2.30	0.35	0.31	4.90	0.65	0.57	7.50	1.06	0.93
2.35	0.36	0.31	4.95	0.65	0.57	7.55	1.07	0.94
2.40	0.36	0.32	5.00	0.66	0.58	7.60	1.08	0.95
2.45	0.37	0.33	5.05	0.66	0.58	7.65	1.09	0.96
2.50	0.38	0.33	5.10	0.67	0.58	7.70	1.11	0.97
2.55	0.39	0.34	5.15	0.67	0.59	7.75	1.12	0.98

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
7.80	1.13	0.99	10.40	2.55	2.25	13.00	5.44	4.78
7.85	1.14	1.00	10.45	2.58	2.28	13.05	5.20	4.58
7.90	1.15	1.01	10.50	2.63	2.33	13.10	4.89	4.29
7.95	1.16	1.02	10.55	2.69	2.39	13.15	4.66	4.11
8.00	1.18	1.04	10.60	2.83	2.53	13.20	4.46	3.93
8.05	1.19	1.05	10.65	2.95	2.63	13.25	4.30	3.81
8.10	1.21	1.06	10.70	3.11	2.78	13.30	4.13	3.64
8.15	1.22	1.07	10.75	3.24	2.89	13.35	3.99	3.52
8.20	1.23	1.08	10.80	3.40	3.05	13.40	3.81	3.36
8.25	1.24	1.09	10.85	3.53	3.15	13.45	3.67	3.24
8.30	1.25	1.10	10.90	3.70	3.31	13.50	3.49	3.07
8.35	1.26	1.11	10.95	3.84	3.42	13.55	3.35	2.96
8.40	1.28	1.12	11.00	4.00	3.58	13.60	3.18	2.79
8.45	1.29	1.13	11.05	4.15	3.72	13.65	3.06	2.70
8.50	1.30	1.14	11.10	4.42	3.98	13.70	2.98	2.64
8.55	1.31	1.15	11.15	4.65	4.16	13.75	2.92	2.60
8.60	1.33	1.17	11.20	4.93	4.44	13.80	2.87	2.55
8.65	1.34	1.18	11.25	5.17	4.63	13.85	2.84	2.52
8.70	1.35	1.19	11.30	5.46	4.91	13.90	2.78	2.47
8.75	1.37	1.20	11.35	5.70	5.10	13.95	2.74	2.44
8.80	1.38	1.21	11.40	6.00	5.39	14.00	2.70	2.40
8.85	1.39	1.22	11.45	6.25	5.58	14.05	2.66	2.37
8.90	1.40	1.23	11.50	6.54	5.87	14.10	2.61	2.32
8.95	1.41	1.24	11.55	6.94	6.31	14.15	2.58	2.29
9.00	1.43	1.26	11.60	8.05	7.43	14.20	2.53	2.24
9.05	1.45	1.27	11.65	8.87	8.02	14.25	2.49	2.21
9.10	1.48	1.31	11.70	9.38	8.43	14.30	2.44	2.17
9.15	1.52	1.34	11.75	9.98	9.08	14.35	2.40	2.14
9.20	1.56	1.38	11.80	11.64	10.78	14.40	2.35	2.09
9.25	1.59	1.41	11.85	13.29	12.29	14.45	2.31	2.06
9.30	1.64	1.45	11.90	16.01	14.91	14.50	2.27	2.01
9.35	1.68	1.48	11.95	19.07	17.95	14.55	2.23	1.98
9.40	1.72	1.52	12.00	25.58	24.49	14.60	2.18	1.94
9.45	1.75	1.55	12.05	32.08	30.52	14.65	2.14	1.91
9.50	1.80	1.59	12.10	<b>43.30</b>	<b>41.43</b>	14.70	2.10	1.86
9.55	1.83	1.62	12.15	<b>47.89</b>	<b>42.10</b>	14.75	2.06	1.83
9.60	1.88	1.66	12.20	35.83	28.18	14.80	2.01	1.79
9.65	1.92	1.69	12.25	25.29	20.47	14.85	1.97	1.75
9.70	1.96	1.73	12.30	19.15	15.68	14.90	1.92	1.71
9.75	2.00	1.76	12.35	15.74	13.24	14.95	1.88	1.67
9.80	2.04	1.81	12.40	12.94	10.86	15.00	1.84	1.63
9.85	2.08	1.84	12.45	11.26	9.75	15.05	1.80	1.60
9.90	2.13	1.88	12.50	10.44	9.16	15.10	1.75	1.55
9.95	2.16	1.91	12.55	9.86	8.60	15.15	1.72	1.53
10.00	2.21	1.95	12.60	8.66	7.41	15.20	1.69	1.51
10.05	2.25	1.99	12.65	7.78	6.77	15.25	1.68	1.50
10.10	2.29	2.03	12.70	7.24	6.34	15.30	1.66	1.48
10.15	2.33	2.06	12.75	6.90	6.08	15.35	1.65	1.48
10.20	2.37	2.10	12.80	6.56	5.77	15.40	1.64	1.46
10.25	2.41	2.13	12.85	6.31	5.56	15.45	1.63	1.45
10.30	2.46	2.18	12.90	6.00	5.27	15.50	1.62	1.44
10.35	2.50	2.21	12.95	5.74	5.07	15.55	1.60	1.43

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
15.60	1.59	1.42	18.20	0.97	0.86	20.80	0.81	0.72
15.65	1.58	1.41	18.25	0.96	0.86	20.85	0.80	0.72
15.70	1.57	1.40	18.30	0.96	0.86	20.90	0.80	0.71
15.75	1.56	1.39	18.35	0.96	0.85	20.95	0.80	0.71
15.80	1.54	1.37	18.40	0.95	0.85	21.00	0.79	0.71
15.85	1.53	1.36	18.45	0.95	0.85	21.05	0.79	0.71
15.90	1.52	1.35	18.50	0.94	0.84	21.10	0.79	0.70
15.95	1.51	1.34	18.55	0.94	0.84	21.15	0.78	0.70
16.00	1.49	1.33	18.60	0.94	0.84	21.20	0.78	0.70
16.05	1.48	1.32	18.65	0.94	0.84	21.25	0.78	0.70
16.10	1.47	1.31	18.70	0.93	0.83	21.30	0.77	0.69
16.15	1.46	1.30	18.75	0.93	0.83	21.35	0.77	0.69
16.20	1.44	1.29	18.80	0.93	0.83	21.40	0.77	0.69
16.25	1.43	1.28	18.85	0.93	0.83	21.45	0.77	0.69
16.30	1.42	1.27	18.90	0.92	0.82	21.50	0.76	0.68
16.35	1.41	1.26	18.95	0.92	0.82	21.55	0.76	0.68
16.40	1.40	1.25	19.00	0.92	0.82	21.60	0.76	0.68
16.45	1.39	1.24	19.05	0.91	0.81	21.65	0.75	0.67
16.50	1.37	1.22	19.10	0.91	0.81	21.70	0.75	0.67
16.55	1.36	1.21	19.15	0.91	0.81	21.75	0.75	0.67
16.60	1.35	1.20	19.20	0.90	0.81	21.80	0.74	0.67
16.65	1.34	1.19	19.25	0.90	0.81	21.85	0.74	0.66
16.70	1.32	1.18	19.30	0.90	0.80	21.90	0.74	0.66
16.75	1.31	1.17	19.35	0.90	0.80	21.95	0.74	0.66
16.80	1.30	1.16	19.40	0.89	0.79	22.00	0.73	0.66
16.85	1.29	1.15	19.45	0.89	0.79	22.05	0.73	0.65
16.90	1.28	1.14	19.50	0.89	0.79	22.10	0.73	0.65
16.95	1.27	1.13	19.55	0.88	0.79	22.15	0.72	0.64
17.00	1.25	1.11	19.60	0.88	0.78	22.20	0.72	0.64
17.05	1.24	1.10	19.65	0.88	0.78	22.25	0.72	0.64
17.10	1.23	1.09	19.70	0.87	0.78	22.30	0.71	0.64
17.15	1.22	1.08	19.75	0.87	0.78	22.35	0.71	0.63
17.20	1.20	1.07	19.80	0.87	0.77	22.40	0.71	0.63
17.25	1.19	1.06	19.85	0.86	0.77	22.45	0.70	0.63
17.30	1.18	1.05	19.90	0.86	0.77	22.50	0.70	0.63
17.35	1.17	1.04	19.95	0.86	0.77	22.55	0.70	0.62
17.40	1.15	1.03	20.00	0.85	0.76	22.60	0.70	0.62
17.45	1.14	1.02	20.05	0.85	0.76	22.65	0.69	0.62
17.50	1.13	1.01	20.10	0.85	0.76	22.70	0.69	0.62
17.55	1.12	1.00	20.15	0.85	0.76	22.75	0.69	0.61
17.60	1.10	0.98	20.20	0.84	0.75	22.80	0.68	0.61
17.65	1.09	0.97	20.25	0.84	0.75	22.85	0.68	0.61
17.70	1.08	0.96	20.30	0.84	0.75	22.90	0.68	0.61
17.75	1.07	0.95	20.35	0.83	0.74	22.95	0.68	0.60
17.80	1.06	0.94	20.40	0.83	0.74	23.00	0.67	0.60
17.85	1.05	0.93	20.45	0.83	0.74	23.05	0.67	0.60
17.90	1.03	0.92	20.50	0.82	0.74	23.10	0.67	0.59
17.95	1.02	0.91	20.55	0.82	0.73	23.15	0.66	0.59
18.00	1.01	0.90	20.60	0.82	0.73	23.20	0.66	0.59
18.05	1.00	0.89	20.65	0.82	0.73	23.25	0.66	0.59
18.10	0.98	0.87	20.70	0.81	0.73	23.30	0.65	0.58
18.15	0.97	0.87	20.75	0.81	0.72	23.35	0.65	0.58

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
23.40	0.65	0.58	26.00	0.00	0.00	28.60	0.00	0.00
23.45	0.64	0.57	26.05	0.00	0.00	28.65	0.00	0.00
23.50	0.64	0.57	26.10	0.00	0.00	28.70	0.00	0.00
23.55	0.64	0.57	26.15	0.00	0.00	28.75	0.00	0.00
23.60	0.63	0.57	26.20	0.00	0.00	28.80	0.00	0.00
23.65	0.63	0.56	26.25	0.00	0.00	28.85	0.00	0.00
23.70	0.63	0.56	26.30	0.00	0.00	28.90	0.00	0.00
23.75	0.63	0.56	26.35	0.00	0.00	28.95	0.00	0.00
23.80	0.62	0.55	26.40	0.00	0.00	29.00	0.00	0.00
23.85	0.62	0.55	26.45	0.00	0.00	29.05	0.00	0.00
23.90	0.62	0.55	26.50	0.00	0.00	29.10	0.00	0.00
23.95	0.61	0.55	26.55	0.00	0.00	29.15	0.00	0.00
24.00	0.61	0.55	26.60	0.00	0.00	29.20	0.00	0.00
24.05	0.56	0.47	26.65	0.00	0.00	29.25	0.00	0.00
24.10	0.31	0.21	26.70	0.00	0.00	29.30	0.00	0.00
24.15	0.12	0.08	26.75	0.00	0.00	29.35	0.00	0.00
24.20	0.05	0.03	26.80	0.00	0.00	29.40	0.00	0.00
24.25	0.02	0.01	26.85	0.00	0.00	29.45	0.00	0.00
24.30	0.01	0.00	26.90	0.00	0.00	29.50	0.00	0.00
24.35	0.00	0.00	26.95	0.00	0.00	29.55	0.00	0.00
24.40	0.00	0.00	27.00	0.00	0.00	29.60	0.00	0.00
24.45	0.00	0.00	27.05	0.00	0.00	29.65	0.00	0.00
24.50	0.00	0.00	27.10	0.00	0.00	29.70	0.00	0.00
24.55	0.00	0.00	27.15	0.00	0.00	29.75	0.00	0.00
24.60	0.00	0.00	27.20	0.00	0.00	29.80	0.00	0.00
24.65	0.00	0.00	27.25	0.00	0.00	29.85	0.00	0.00
24.70	0.00	0.00	27.30	0.00	0.00	29.90	0.00	0.00
24.75	0.00	0.00	27.35	0.00	0.00	29.95	0.00	0.00
24.80	0.00	0.00	27.40	0.00	0.00	30.00	0.00	0.00
24.85	0.00	0.00	27.45	0.00	0.00	30.05	0.00	0.00
24.90	0.00	0.00	27.50	0.00	0.00	30.10	0.00	0.00
24.95	0.00	0.00	27.55	0.00	0.00	30.15	0.00	0.00
25.00	0.00	0.00	27.60	0.00	0.00	30.20	0.00	0.00
25.05	0.00	0.00	27.65	0.00	0.00	30.25	0.00	0.00
25.10	0.00	0.00	27.70	0.00	0.00	30.30	0.00	0.00
25.15	0.00	0.00	27.75	0.00	0.00	30.35	0.00	0.00
25.20	0.00	0.00	27.80	0.00	0.00	30.40	0.00	0.00
25.25	0.00	0.00	27.85	0.00	0.00	30.45	0.00	0.00
25.30	0.00	0.00	27.90	0.00	0.00	30.50	0.00	0.00
25.35	0.00	0.00	27.95	0.00	0.00	30.55	0.00	0.00
25.40	0.00	0.00	28.00	0.00	0.00	30.60	0.00	0.00
25.45	0.00	0.00	28.05	0.00	0.00	30.65	0.00	0.00
25.50	0.00	0.00	28.10	0.00	0.00	30.70	0.00	0.00
25.55	0.00	0.00	28.15	0.00	0.00	30.75	0.00	0.00
25.60	0.00	0.00	28.20	0.00	0.00	30.80	0.00	0.00
25.65	0.00	0.00	28.25	0.00	0.00	30.85	0.00	0.00
25.70	0.00	0.00	28.30	0.00	0.00	30.90	0.00	0.00
25.75	0.00	0.00	28.35	0.00	0.00	30.95	0.00	0.00
25.80	0.00	0.00	28.40	0.00	0.00	31.00	0.00	0.00
25.85	0.00	0.00	28.45	0.00	0.00	31.05	0.00	0.00
25.90	0.00	0.00	28.50	0.00	0.00	31.10	0.00	0.00
25.95	0.00	0.00	28.55	0.00	0.00	31.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
31.20	0.00	0.00	33.80	0.00	0.00	36.40	0.00	0.00
31.25	0.00	0.00	33.85	0.00	0.00	36.45	0.00	0.00
31.30	0.00	0.00	33.90	0.00	0.00	36.50	0.00	0.00
31.35	0.00	0.00	33.95	0.00	0.00	36.55	0.00	0.00
31.40	0.00	0.00	34.00	0.00	0.00	36.60	0.00	0.00
31.45	0.00	0.00	34.05	0.00	0.00	36.65	0.00	0.00
31.50	0.00	0.00	34.10	0.00	0.00	36.70	0.00	0.00
31.55	0.00	0.00	34.15	0.00	0.00	36.75	0.00	0.00
31.60	0.00	0.00	34.20	0.00	0.00	36.80	0.00	0.00
31.65	0.00	0.00	34.25	0.00	0.00	36.85	0.00	0.00
31.70	0.00	0.00	34.30	0.00	0.00	36.90	0.00	0.00
31.75	0.00	0.00	34.35	0.00	0.00	36.95	0.00	0.00
31.80	0.00	0.00	34.40	0.00	0.00	37.00	0.00	0.00
31.85	0.00	0.00	34.45	0.00	0.00	37.05	0.00	0.00
31.90	0.00	0.00	34.50	0.00	0.00	37.10	0.00	0.00
31.95	0.00	0.00	34.55	0.00	0.00	37.15	0.00	0.00
32.00	0.00	0.00	34.60	0.00	0.00	37.20	0.00	0.00
32.05	0.00	0.00	34.65	0.00	0.00	37.25	0.00	0.00
32.10	0.00	0.00	34.70	0.00	0.00	37.30	0.00	0.00
32.15	0.00	0.00	34.75	0.00	0.00	37.35	0.00	0.00
32.20	0.00	0.00	34.80	0.00	0.00	37.40	0.00	0.00
32.25	0.00	0.00	34.85	0.00	0.00	37.45	0.00	0.00
32.30	0.00	0.00	34.90	0.00	0.00	37.50	0.00	0.00
32.35	0.00	0.00	34.95	0.00	0.00	37.55	0.00	0.00
32.40	0.00	0.00	35.00	0.00	0.00	37.60	0.00	0.00
32.45	0.00	0.00	35.05	0.00	0.00	37.65	0.00	0.00
32.50	0.00	0.00	35.10	0.00	0.00	37.70	0.00	0.00
32.55	0.00	0.00	35.15	0.00	0.00	37.75	0.00	0.00
32.60	0.00	0.00	35.20	0.00	0.00	37.80	0.00	0.00
32.65	0.00	0.00	35.25	0.00	0.00	37.85	0.00	0.00
32.70	0.00	0.00	35.30	0.00	0.00	37.90	0.00	0.00
32.75	0.00	0.00	35.35	0.00	0.00	37.95	0.00	0.00
32.80	0.00	0.00	35.40	0.00	0.00	38.00	0.00	0.00
32.85	0.00	0.00	35.45	0.00	0.00	38.05	0.00	0.00
32.90	0.00	0.00	35.50	0.00	0.00	38.10	0.00	0.00
32.95	0.00	0.00	35.55	0.00	0.00	38.15	0.00	0.00
33.00	0.00	0.00	35.60	0.00	0.00	38.20	0.00	0.00
33.05	0.00	0.00	35.65	0.00	0.00	38.25	0.00	0.00
33.10	0.00	0.00	35.70	0.00	0.00	38.30	0.00	0.00
33.15	0.00	0.00	35.75	0.00	0.00	38.35	0.00	0.00
33.20	0.00	0.00	35.80	0.00	0.00	38.40	0.00	0.00
33.25	0.00	0.00	35.85	0.00	0.00	38.45	0.00	0.00
33.30	0.00	0.00	35.90	0.00	0.00	38.50	0.00	0.00
33.35	0.00	0.00	35.95	0.00	0.00	38.55	0.00	0.00
33.40	0.00	0.00	36.00	0.00	0.00	38.60	0.00	0.00
33.45	0.00	0.00	36.05	0.00	0.00	38.65	0.00	0.00
33.50	0.00	0.00	36.10	0.00	0.00	38.70	0.00	0.00
33.55	0.00	0.00	36.15	0.00	0.00	38.75	0.00	0.00
33.60	0.00	0.00	36.20	0.00	0.00	38.80	0.00	0.00
33.65	0.00	0.00	36.25	0.00	0.00	38.85	0.00	0.00
33.70	0.00	0.00	36.30	0.00	0.00	38.90	0.00	0.00
33.75	0.00	0.00	36.35	0.00	0.00	38.95	0.00	0.00



**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
39.00	0.00	0.00	41.60	0.00	0.00	44.20	0.00	0.00
39.05	0.00	0.00	41.65	0.00	0.00	44.25	0.00	0.00
39.10	0.00	0.00	41.70	0.00	0.00	44.30	0.00	0.00
39.15	0.00	0.00	41.75	0.00	0.00	44.35	0.00	0.00
39.20	0.00	0.00	41.80	0.00	0.00	44.40	0.00	0.00
39.25	0.00	0.00	41.85	0.00	0.00	44.45	0.00	0.00
39.30	0.00	0.00	41.90	0.00	0.00	44.50	0.00	0.00
39.35	0.00	0.00	41.95	0.00	0.00	44.55	0.00	0.00
39.40	0.00	0.00	42.00	0.00	0.00	44.60	0.00	0.00
39.45	0.00	0.00	42.05	0.00	0.00	44.65	0.00	0.00
39.50	0.00	0.00	42.10	0.00	0.00	44.70	0.00	0.00
39.55	0.00	0.00	42.15	0.00	0.00	44.75	0.00	0.00
39.60	0.00	0.00	42.20	0.00	0.00	44.80	0.00	0.00
39.65	0.00	0.00	42.25	0.00	0.00	44.85	0.00	0.00
39.70	0.00	0.00	42.30	0.00	0.00	44.90	0.00	0.00
39.75	0.00	0.00	42.35	0.00	0.00	44.95	0.00	0.00
39.80	0.00	0.00	42.40	0.00	0.00	45.00	0.00	0.00
39.85	0.00	0.00	42.45	0.00	0.00	45.05	0.00	0.00
39.90	0.00	0.00	42.50	0.00	0.00	45.10	0.00	0.00
39.95	0.00	0.00	42.55	0.00	0.00	45.15	0.00	0.00
40.00	0.00	0.00	42.60	0.00	0.00	45.20	0.00	0.00
40.05	0.00	0.00	42.65	0.00	0.00	45.25	0.00	0.00
40.10	0.00	0.00	42.70	0.00	0.00	45.30	0.00	0.00
40.15	0.00	0.00	42.75	0.00	0.00	45.35	0.00	0.00
40.20	0.00	0.00	42.80	0.00	0.00	45.40	0.00	0.00
40.25	0.00	0.00	42.85	0.00	0.00	45.45	0.00	0.00
40.30	0.00	0.00	42.90	0.00	0.00	45.50	0.00	0.00
40.35	0.00	0.00	42.95	0.00	0.00	45.55	0.00	0.00
40.40	0.00	0.00	43.00	0.00	0.00	45.60	0.00	0.00
40.45	0.00	0.00	43.05	0.00	0.00	45.65	0.00	0.00
40.50	0.00	0.00	43.10	0.00	0.00	45.70	0.00	0.00
40.55	0.00	0.00	43.15	0.00	0.00	45.75	0.00	0.00
40.60	0.00	0.00	43.20	0.00	0.00	45.80	0.00	0.00
40.65	0.00	0.00	43.25	0.00	0.00	45.85	0.00	0.00
40.70	0.00	0.00	43.30	0.00	0.00	45.90	0.00	0.00
40.75	0.00	0.00	43.35	0.00	0.00	45.95	0.00	0.00
40.80	0.00	0.00	43.40	0.00	0.00	46.00	0.00	0.00
40.85	0.00	0.00	43.45	0.00	0.00	46.05	0.00	0.00
40.90	0.00	0.00	43.50	0.00	0.00	46.10	0.00	0.00
40.95	0.00	0.00	43.55	0.00	0.00	46.15	0.00	0.00
41.00	0.00	0.00	43.60	0.00	0.00	46.20	0.00	0.00
41.05	0.00	0.00	43.65	0.00	0.00	46.25	0.00	0.00
41.10	0.00	0.00	43.70	0.00	0.00	46.30	0.00	0.00
41.15	0.00	0.00	43.75	0.00	0.00	46.35	0.00	0.00
41.20	0.00	0.00	43.80	0.00	0.00	46.40	0.00	0.00
41.25	0.00	0.00	43.85	0.00	0.00	46.45	0.00	0.00
41.30	0.00	0.00	43.90	0.00	0.00	46.50	0.00	0.00
41.35	0.00	0.00	43.95	0.00	0.00	46.55	0.00	0.00
41.40	0.00	0.00	44.00	0.00	0.00	46.60	0.00	0.00
41.45	0.00	0.00	44.05	0.00	0.00	46.65	0.00	0.00
41.50	0.00	0.00	44.10	0.00	0.00	46.70	0.00	0.00
41.55	0.00	0.00	44.15	0.00	0.00	46.75	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
46.80	0.00	0.00	49.40	0.00	0.00	52.00	0.00	0.00
46.85	0.00	0.00	49.45	0.00	0.00	52.05	0.00	0.00
46.90	0.00	0.00	49.50	0.00	0.00	52.10	0.00	0.00
46.95	0.00	0.00	49.55	0.00	0.00	52.15	0.00	0.00
47.00	0.00	0.00	49.60	0.00	0.00	52.20	0.00	0.00
47.05	0.00	0.00	49.65	0.00	0.00	52.25	0.00	0.00
47.10	0.00	0.00	49.70	0.00	0.00	52.30	0.00	0.00
47.15	0.00	0.00	49.75	0.00	0.00	52.35	0.00	0.00
47.20	0.00	0.00	49.80	0.00	0.00	52.40	0.00	0.00
47.25	0.00	0.00	49.85	0.00	0.00	52.45	0.00	0.00
47.30	0.00	0.00	49.90	0.00	0.00	52.50	0.00	0.00
47.35	0.00	0.00	49.95	0.00	0.00	52.55	0.00	0.00
47.40	0.00	0.00	50.00	0.00	0.00	52.60	0.00	0.00
47.45	0.00	0.00	50.05	0.00	0.00	52.65	0.00	0.00
47.50	0.00	0.00	50.10	0.00	0.00	52.70	0.00	0.00
47.55	0.00	0.00	50.15	0.00	0.00	52.75	0.00	0.00
47.60	0.00	0.00	50.20	0.00	0.00	52.80	0.00	0.00
47.65	0.00	0.00	50.25	0.00	0.00	52.85	0.00	0.00
47.70	0.00	0.00	50.30	0.00	0.00	52.90	0.00	0.00
47.75	0.00	0.00	50.35	0.00	0.00	52.95	0.00	0.00
47.80	0.00	0.00	50.40	0.00	0.00	53.00	0.00	0.00
47.85	0.00	0.00	50.45	0.00	0.00	53.05	0.00	0.00
47.90	0.00	0.00	50.50	0.00	0.00	53.10	0.00	0.00
47.95	0.00	0.00	50.55	0.00	0.00	53.15	0.00	0.00
48.00	0.00	0.00	50.60	0.00	0.00	53.20	0.00	0.00
48.05	0.00	0.00	50.65	0.00	0.00	53.25	0.00	0.00
48.10	0.00	0.00	50.70	0.00	0.00	53.30	0.00	0.00
48.15	0.00	0.00	50.75	0.00	0.00	53.35	0.00	0.00
48.20	0.00	0.00	50.80	0.00	0.00	53.40	0.00	0.00
48.25	0.00	0.00	50.85	0.00	0.00	53.45	0.00	0.00
48.30	0.00	0.00	50.90	0.00	0.00	53.50	0.00	0.00
48.35	0.00	0.00	50.95	0.00	0.00	53.55	0.00	0.00
48.40	0.00	0.00	51.00	0.00	0.00	53.60	0.00	0.00
48.45	0.00	0.00	51.05	0.00	0.00	53.65	0.00	0.00
48.50	0.00	0.00	51.10	0.00	0.00	53.70	0.00	0.00
48.55	0.00	0.00	51.15	0.00	0.00	53.75	0.00	0.00
48.60	0.00	0.00	51.20	0.00	0.00	53.80	0.00	0.00
48.65	0.00	0.00	51.25	0.00	0.00	53.85	0.00	0.00
48.70	0.00	0.00	51.30	0.00	0.00	53.90	0.00	0.00
48.75	0.00	0.00	51.35	0.00	0.00	53.95	0.00	0.00
48.80	0.00	0.00	51.40	0.00	0.00	54.00	0.00	0.00
48.85	0.00	0.00	51.45	0.00	0.00	54.05	0.00	0.00
48.90	0.00	0.00	51.50	0.00	0.00	54.10	0.00	0.00
48.95	0.00	0.00	51.55	0.00	0.00	54.15	0.00	0.00
49.00	0.00	0.00	51.60	0.00	0.00	54.20	0.00	0.00
49.05	0.00	0.00	51.65	0.00	0.00	54.25	0.00	0.00
49.10	0.00	0.00	51.70	0.00	0.00	54.30	0.00	0.00
49.15	0.00	0.00	51.75	0.00	0.00	54.35	0.00	0.00
49.20	0.00	0.00	51.80	0.00	0.00	54.40	0.00	0.00
49.25	0.00	0.00	51.85	0.00	0.00	54.45	0.00	0.00
49.30	0.00	0.00	51.90	0.00	0.00	54.50	0.00	0.00
49.35	0.00	0.00	51.95	0.00	0.00	54.55	0.00	0.00

**Primary Comparison (continued)**

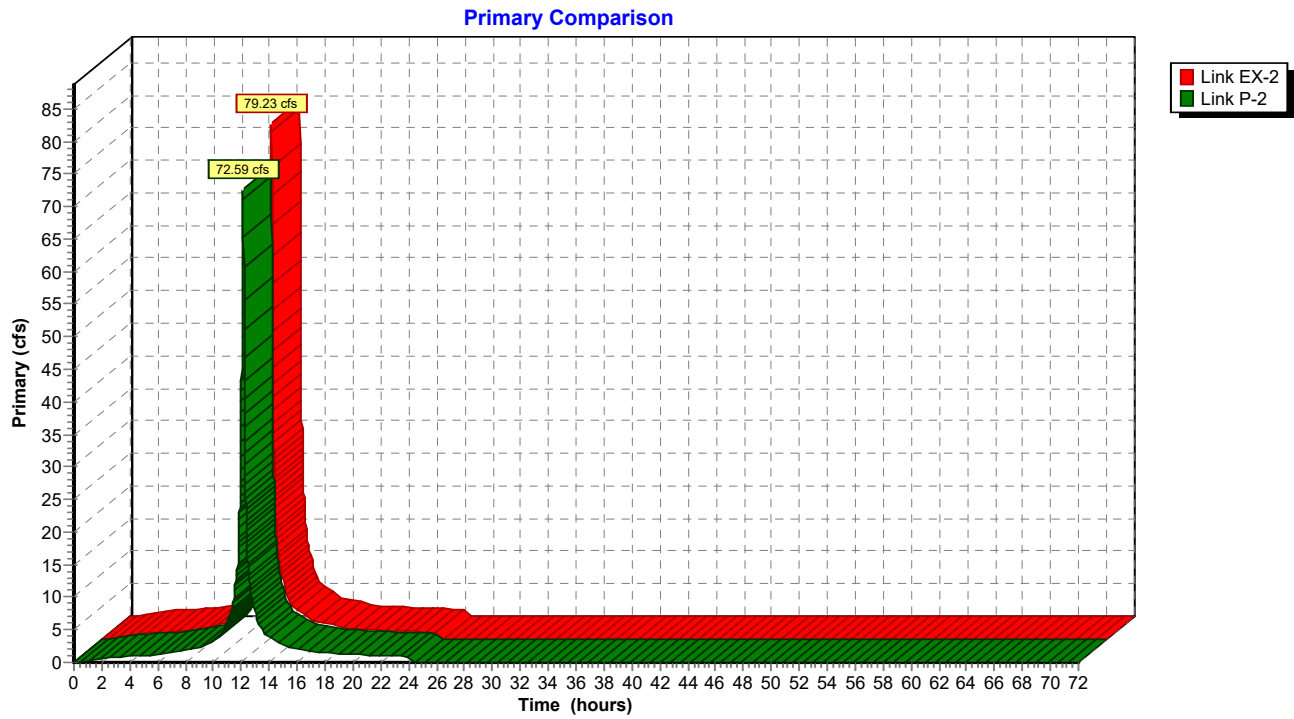
Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
54.60	0.00	0.00	57.20	0.00	0.00	59.80	0.00	0.00
54.65	0.00	0.00	57.25	0.00	0.00	59.85	0.00	0.00
54.70	0.00	0.00	57.30	0.00	0.00	59.90	0.00	0.00
54.75	0.00	0.00	57.35	0.00	0.00	59.95	0.00	0.00
54.80	0.00	0.00	57.40	0.00	0.00	60.00	0.00	0.00
54.85	0.00	0.00	57.45	0.00	0.00	60.05	0.00	0.00
54.90	0.00	0.00	57.50	0.00	0.00	60.10	0.00	0.00
54.95	0.00	0.00	57.55	0.00	0.00	60.15	0.00	0.00
55.00	0.00	0.00	57.60	0.00	0.00	60.20	0.00	0.00
55.05	0.00	0.00	57.65	0.00	0.00	60.25	0.00	0.00
55.10	0.00	0.00	57.70	0.00	0.00	60.30	0.00	0.00
55.15	0.00	0.00	57.75	0.00	0.00	60.35	0.00	0.00
55.20	0.00	0.00	57.80	0.00	0.00	60.40	0.00	0.00
55.25	0.00	0.00	57.85	0.00	0.00	60.45	0.00	0.00
55.30	0.00	0.00	57.90	0.00	0.00	60.50	0.00	0.00
55.35	0.00	0.00	57.95	0.00	0.00	60.55	0.00	0.00
55.40	0.00	0.00	58.00	0.00	0.00	60.60	0.00	0.00
55.45	0.00	0.00	58.05	0.00	0.00	60.65	0.00	0.00
55.50	0.00	0.00	58.10	0.00	0.00	60.70	0.00	0.00
55.55	0.00	0.00	58.15	0.00	0.00	60.75	0.00	0.00
55.60	0.00	0.00	58.20	0.00	0.00	60.80	0.00	0.00
55.65	0.00	0.00	58.25	0.00	0.00	60.85	0.00	0.00
55.70	0.00	0.00	58.30	0.00	0.00	60.90	0.00	0.00
55.75	0.00	0.00	58.35	0.00	0.00	60.95	0.00	0.00
55.80	0.00	0.00	58.40	0.00	0.00	61.00	0.00	0.00
55.85	0.00	0.00	58.45	0.00	0.00	61.05	0.00	0.00
55.90	0.00	0.00	58.50	0.00	0.00	61.10	0.00	0.00
55.95	0.00	0.00	58.55	0.00	0.00	61.15	0.00	0.00
56.00	0.00	0.00	58.60	0.00	0.00	61.20	0.00	0.00
56.05	0.00	0.00	58.65	0.00	0.00	61.25	0.00	0.00
56.10	0.00	0.00	58.70	0.00	0.00	61.30	0.00	0.00
56.15	0.00	0.00	58.75	0.00	0.00	61.35	0.00	0.00
56.20	0.00	0.00	58.80	0.00	0.00	61.40	0.00	0.00
56.25	0.00	0.00	58.85	0.00	0.00	61.45	0.00	0.00
56.30	0.00	0.00	58.90	0.00	0.00	61.50	0.00	0.00
56.35	0.00	0.00	58.95	0.00	0.00	61.55	0.00	0.00
56.40	0.00	0.00	59.00	0.00	0.00	61.60	0.00	0.00
56.45	0.00	0.00	59.05	0.00	0.00	61.65	0.00	0.00
56.50	0.00	0.00	59.10	0.00	0.00	61.70	0.00	0.00
56.55	0.00	0.00	59.15	0.00	0.00	61.75	0.00	0.00
56.60	0.00	0.00	59.20	0.00	0.00	61.80	0.00	0.00
56.65	0.00	0.00	59.25	0.00	0.00	61.85	0.00	0.00
56.70	0.00	0.00	59.30	0.00	0.00	61.90	0.00	0.00
56.75	0.00	0.00	59.35	0.00	0.00	61.95	0.00	0.00
56.80	0.00	0.00	59.40	0.00	0.00	62.00	0.00	0.00
56.85	0.00	0.00	59.45	0.00	0.00	62.05	0.00	0.00
56.90	0.00	0.00	59.50	0.00	0.00	62.10	0.00	0.00
56.95	0.00	0.00	59.55	0.00	0.00	62.15	0.00	0.00
57.00	0.00	0.00	59.60	0.00	0.00	62.20	0.00	0.00
57.05	0.00	0.00	59.65	0.00	0.00	62.25	0.00	0.00
57.10	0.00	0.00	59.70	0.00	0.00	62.30	0.00	0.00
57.15	0.00	0.00	59.75	0.00	0.00	62.35	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
62.40	0.00	0.00	65.00	0.00	0.00	67.60	0.00	0.00
62.45	0.00	0.00	65.05	0.00	0.00	67.65	0.00	0.00
62.50	0.00	0.00	65.10	0.00	0.00	67.70	0.00	0.00
62.55	0.00	0.00	65.15	0.00	0.00	67.75	0.00	0.00
62.60	0.00	0.00	65.20	0.00	0.00	67.80	0.00	0.00
62.65	0.00	0.00	65.25	0.00	0.00	67.85	0.00	0.00
62.70	0.00	0.00	65.30	0.00	0.00	67.90	0.00	0.00
62.75	0.00	0.00	65.35	0.00	0.00	67.95	0.00	0.00
62.80	0.00	0.00	65.40	0.00	0.00	68.00	0.00	0.00
62.85	0.00	0.00	65.45	0.00	0.00	68.05	0.00	0.00
62.90	0.00	0.00	65.50	0.00	0.00	68.10	0.00	0.00
62.95	0.00	0.00	65.55	0.00	0.00	68.15	0.00	0.00
63.00	0.00	0.00	65.60	0.00	0.00	68.20	0.00	0.00
63.05	0.00	0.00	65.65	0.00	0.00	68.25	0.00	0.00
63.10	0.00	0.00	65.70	0.00	0.00	68.30	0.00	0.00
63.15	0.00	0.00	65.75	0.00	0.00	68.35	0.00	0.00
63.20	0.00	0.00	65.80	0.00	0.00	68.40	0.00	0.00
63.25	0.00	0.00	65.85	0.00	0.00	68.45	0.00	0.00
63.30	0.00	0.00	65.90	0.00	0.00	68.50	0.00	0.00
63.35	0.00	0.00	65.95	0.00	0.00	68.55	0.00	0.00
63.40	0.00	0.00	66.00	0.00	0.00	68.60	0.00	0.00
63.45	0.00	0.00	66.05	0.00	0.00	68.65	0.00	0.00
63.50	0.00	0.00	66.10	0.00	0.00	68.70	0.00	0.00
63.55	0.00	0.00	66.15	0.00	0.00	68.75	0.00	0.00
63.60	0.00	0.00	66.20	0.00	0.00	68.80	0.00	0.00
63.65	0.00	0.00	66.25	0.00	0.00	68.85	0.00	0.00
63.70	0.00	0.00	66.30	0.00	0.00	68.90	0.00	0.00
63.75	0.00	0.00	66.35	0.00	0.00	68.95	0.00	0.00
63.80	0.00	0.00	66.40	0.00	0.00	69.00	0.00	0.00
63.85	0.00	0.00	66.45	0.00	0.00	69.05	0.00	0.00
63.90	0.00	0.00	66.50	0.00	0.00	69.10	0.00	0.00
63.95	0.00	0.00	66.55	0.00	0.00	69.15	0.00	0.00
64.00	0.00	0.00	66.60	0.00	0.00	69.20	0.00	0.00
64.05	0.00	0.00	66.65	0.00	0.00	69.25	0.00	0.00
64.10	0.00	0.00	66.70	0.00	0.00	69.30	0.00	0.00
64.15	0.00	0.00	66.75	0.00	0.00	69.35	0.00	0.00
64.20	0.00	0.00	66.80	0.00	0.00	69.40	0.00	0.00
64.25	0.00	0.00	66.85	0.00	0.00	69.45	0.00	0.00
64.30	0.00	0.00	66.90	0.00	0.00	69.50	0.00	0.00
64.35	0.00	0.00	66.95	0.00	0.00	69.55	0.00	0.00
64.40	0.00	0.00	67.00	0.00	0.00	69.60	0.00	0.00
64.45	0.00	0.00	67.05	0.00	0.00	69.65	0.00	0.00
64.50	0.00	0.00	67.10	0.00	0.00	69.70	0.00	0.00
64.55	0.00	0.00	67.15	0.00	0.00	69.75	0.00	0.00
64.60	0.00	0.00	67.20	0.00	0.00	69.80	0.00	0.00
64.65	0.00	0.00	67.25	0.00	0.00	69.85	0.00	0.00
64.70	0.00	0.00	67.30	0.00	0.00	69.90	0.00	0.00
64.75	0.00	0.00	67.35	0.00	0.00	69.95	0.00	0.00
64.80	0.00	0.00	67.40	0.00	0.00	70.00	0.00	0.00
64.85	0.00	0.00	67.45	0.00	0.00	70.05	0.00	0.00
64.90	0.00	0.00	67.50	0.00	0.00	70.10	0.00	0.00
64.95	0.00	0.00	67.55	0.00	0.00	70.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
70.20	0.00	0.00
70.25	0.00	0.00
70.30	0.00	0.00
70.35	0.00	0.00
70.40	0.00	0.00
70.45	0.00	0.00
70.50	0.00	0.00
70.55	0.00	0.00
70.60	0.00	0.00
70.65	0.00	0.00
70.70	0.00	0.00
70.75	0.00	0.00
70.80	0.00	0.00
70.85	0.00	0.00
70.90	0.00	0.00
70.95	0.00	0.00
71.00	0.00	0.00
71.05	0.00	0.00
71.10	0.00	0.00
71.15	0.00	0.00
71.20	0.00	0.00
71.25	0.00	0.00
71.30	0.00	0.00
71.35	0.00	0.00
71.40	0.00	0.00
71.45	0.00	0.00
71.50	0.00	0.00
71.55	0.00	0.00
71.60	0.00	0.00
71.65	0.00	0.00
71.70	0.00	0.00
71.75	0.00	0.00
71.80	0.00	0.00
71.85	0.00	0.00
71.90	0.00	0.00
71.95	0.00	0.00
72.00	0.00	0.00



**Primary Comparison**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
0.00	0.00	0.00	2.60	0.79	0.70	5.20	1.17	1.02
0.05	0.00	0.00	2.65	0.80	0.70	5.25	1.17	1.03
0.10	0.00	0.00	2.70	0.81	0.72	5.30	1.18	1.03
0.15	0.00	0.00	2.75	0.82	0.72	5.35	1.19	1.04
0.20	0.00	0.00	2.80	0.83	0.73	5.40	1.19	1.04
0.25	0.00	0.00	2.85	0.84	0.74	5.45	1.19	1.04
0.30	0.00	0.00	2.90	0.85	0.75	5.50	1.20	1.05
0.35	0.00	0.00	2.95	0.86	0.75	5.55	1.21	1.06
0.40	0.00	0.00	3.00	0.87	0.76	5.60	1.21	1.06
0.45	0.00	0.00	3.05	0.87	0.77	5.65	1.21	1.06
0.50	0.00	0.00	3.10	0.88	0.78	5.70	1.22	1.07
0.55	0.02	0.02	3.15	0.89	0.78	5.75	1.23	1.08
0.60	0.05	0.05	3.20	0.90	0.79	5.80	1.24	1.08
0.65	0.08	0.08	3.25	0.91	0.80	5.85	1.24	1.09
0.70	0.12	0.11	3.30	0.92	0.80	5.90	1.25	1.10
0.75	0.15	0.14	3.35	0.92	0.81	5.95	1.26	1.10
0.80	0.18	0.17	3.40	0.93	0.82	6.00	1.26	1.11
0.85	0.21	0.19	3.45	0.94	0.82	6.05	1.27	1.12
0.90	0.24	0.22	3.50	0.95	0.83	6.10	1.29	1.13
0.95	0.27	0.24	3.55	0.96	0.84	6.15	1.31	1.15
1.00	0.29	0.26	3.60	0.96	0.84	6.20	1.33	1.17
1.05	0.32	0.29	3.65	0.97	0.85	6.25	1.34	1.18
1.10	0.34	0.31	3.70	0.98	0.86	6.30	1.36	1.20
1.15	0.36	0.33	3.75	0.99	0.86	6.35	1.38	1.21
1.20	0.39	0.35	3.80	0.99	0.87	6.40	1.40	1.23
1.25	0.41	0.37	3.85	1.00	0.87	6.45	1.42	1.25
1.30	0.43	0.38	3.90	1.01	0.88	6.50	1.44	1.26
1.35	0.45	0.40	3.95	1.01	0.89	6.55	1.45	1.28
1.40	0.47	0.42	4.00	1.02	0.89	6.60	1.47	1.30
1.45	0.49	0.43	4.05	1.03	0.90	6.65	1.49	1.31
1.50	0.51	0.45	4.10	1.03	0.91	6.70	1.51	1.33
1.55	0.52	0.46	4.15	1.04	0.91	6.75	1.53	1.35
1.60	0.54	0.48	4.20	1.05	0.92	6.80	1.55	1.37
1.65	0.56	0.49	4.25	1.05	0.92	6.85	1.57	1.38
1.70	0.57	0.50	4.30	1.06	0.93	6.90	1.59	1.40
1.75	0.59	0.52	4.35	1.06	0.93	6.95	1.61	1.41
1.80	0.60	0.53	4.40	1.07	0.94	7.00	1.63	1.44
1.85	0.62	0.54	4.45	1.08	0.95	7.05	1.65	1.45
1.90	0.63	0.56	4.50	1.08	0.95	7.10	1.67	1.47
1.95	0.65	0.57	4.55	1.09	0.95	7.15	1.68	1.48
2.00	0.66	0.58	4.60	1.10	0.96	7.20	1.71	1.51
2.05	0.67	0.59	4.65	1.10	0.97	7.25	1.73	1.52
2.10	0.68	0.60	4.70	1.11	0.97	7.30	1.75	1.54
2.15	0.70	0.61	4.75	1.11	0.97	7.35	1.76	1.55
2.20	0.71	0.62	4.80	1.12	0.98	7.40	1.79	1.58
2.25	0.72	0.63	4.85	1.13	0.99	7.45	1.80	1.59
2.30	0.73	0.64	4.90	1.13	0.99	7.50	1.83	1.61
2.35	0.74	0.65	4.95	1.14	1.00	7.55	1.84	1.62
2.40	0.75	0.66	5.00	1.14	1.00	7.60	1.86	1.64
2.45	0.76	0.67	5.05	1.15	1.01	7.65	1.88	1.66
2.50	0.77	0.68	5.10	1.16	1.01	7.70	1.90	1.68
2.55	0.78	0.69	5.15	1.16	1.02	7.75	1.92	1.69

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
7.80	1.95	1.72	10.40	4.28	3.81	13.00	8.86	7.81
7.85	1.96	1.73	10.45	4.34	3.86	13.05	8.46	7.47
7.90	1.98	1.75	10.50	4.41	3.93	13.10	7.96	7.00
7.95	2.00	1.76	10.55	4.51	4.03	13.15	7.59	6.71
8.00	2.02	1.79	10.60	4.73	4.26	13.20	7.25	6.41
8.05	2.04	1.80	10.65	4.93	4.43	13.25	7.00	6.21
8.10	2.07	1.82	10.70	5.20	4.68	13.30	6.71	5.93
8.15	2.08	1.84	10.75	5.42	4.86	13.35	6.48	5.74
8.20	2.10	1.86	10.80	5.69	5.12	13.40	6.19	5.47
8.25	2.12	1.87	10.85	5.91	5.30	13.45	5.96	5.28
8.30	2.14	1.89	10.90	6.19	5.56	13.50	5.68	5.01
8.35	2.16	1.91	10.95	6.41	5.74	13.55	5.45	4.82
8.40	2.18	1.93	11.00	6.68	6.00	13.60	5.16	4.55
8.45	2.21	1.95	11.05	6.93	6.23	13.65	4.97	4.41
8.50	2.23	1.96	11.10	7.37	6.66	13.70	4.83	4.30
8.55	2.24	1.98	11.15	7.75	6.97	13.75	4.75	4.23
8.60	2.26	2.00	11.20	8.22	7.42	13.80	4.67	4.16
8.65	2.28	2.02	11.25	8.61	7.75	13.85	4.60	4.11
8.70	2.31	2.04	11.30	9.09	8.20	13.90	4.52	4.03
8.75	2.33	2.06	11.35	9.49	8.53	13.95	4.46	3.97
8.80	2.35	2.08	11.40	9.98	9.00	14.00	4.38	3.90
8.85	2.37	2.09	11.45	10.38	9.32	14.05	4.32	3.85
8.90	2.39	2.11	11.50	10.87	9.79	14.10	4.24	3.78
8.95	2.40	2.13	11.55	11.52	10.51	14.15	4.18	3.73
9.00	2.43	2.15	11.60	13.33	12.34	14.20	4.10	3.65
9.05	2.46	2.18	11.65	14.68	13.33	14.25	4.04	3.60
9.10	2.52	2.24	11.70	15.53	14.01	14.30	3.96	3.53
9.15	2.57	2.29	11.75	16.52	15.08	14.35	3.90	3.48
9.20	2.64	2.35	11.80	19.22	17.85	14.40	3.82	3.40
9.25	2.70	2.40	11.85	21.92	20.33	14.45	3.76	3.35
9.30	2.78	2.47	11.90	26.36	24.62	14.50	3.68	3.28
9.35	2.84	2.52	11.95	31.36	29.59	14.55	3.62	3.23
9.40	2.91	2.59	12.00	41.94	40.22	14.60	3.54	3.15
9.45	2.97	2.64	12.05	52.56	50.09	14.65	3.48	3.10
9.50	3.04	2.71	12.10	<b>70.78</b>	<b>67.83</b>	14.70	3.40	3.03
9.55	3.10	2.76	12.15	<b>78.35</b>	<b>69.14</b>	14.75	3.34	2.97
9.60	3.18	2.83	12.20	58.94	46.76	14.80	3.26	2.90
9.65	3.24	2.88	12.25	41.68	34.00	14.85	3.20	2.85
9.70	3.31	2.94	12.30	31.53	25.98	14.90	3.12	2.77
9.75	3.37	2.99	12.35	25.85	21.86	14.95	3.06	2.72
9.80	3.45	3.07	12.40	21.23	17.91	15.00	2.98	2.65
9.85	3.51	3.12	12.45	18.44	16.04	15.05	2.92	2.60
9.90	3.58	3.19	12.50	17.07	15.02	15.10	2.84	2.52
9.95	3.64	3.24	12.55	16.09	14.10	15.15	2.78	2.48
10.00	3.72	3.31	12.60	14.14	12.16	15.20	2.75	2.45
10.05	3.78	3.36	12.65	12.70	11.10	15.25	2.72	2.43
10.10	3.86	3.44	12.70	11.80	10.37	15.30	2.70	2.41
10.15	3.92	3.49	12.75	11.24	9.94	15.35	2.68	2.40
10.20	3.99	3.56	12.80	10.69	9.44	15.40	2.66	2.38
10.25	4.06	3.61	12.85	10.27	9.09	15.45	2.65	2.36
10.30	4.14	3.68	12.90	9.76	8.61	15.50	2.62	2.34
10.35	4.20	3.74	12.95	9.35	8.28	15.55	2.60	2.33



**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
15.60	2.58	2.30	18.20	1.56	1.40	20.80	1.30	1.17
15.65	2.56	2.29	18.25	1.56	1.39	20.85	1.30	1.16
15.70	2.54	2.27	18.30	1.55	1.39	20.90	1.29	1.16
15.75	2.53	2.26	18.35	1.55	1.39	20.95	1.29	1.15
15.80	2.50	2.23	18.40	1.54	1.38	21.00	1.28	1.15
15.85	2.48	2.22	18.45	1.54	1.38	21.05	1.28	1.15
15.90	2.46	2.20	18.50	1.53	1.37	21.10	1.27	1.14
15.95	2.44	2.18	18.55	1.52	1.36	21.15	1.27	1.13
16.00	2.42	2.16	18.60	1.52	1.36	21.20	1.26	1.13
16.05	2.41	2.15	18.65	1.52	1.36	21.25	1.26	1.13
16.10	2.39	2.13	18.70	1.51	1.35	21.30	1.25	1.12
16.15	2.37	2.12	18.75	1.51	1.35	21.35	1.25	1.12
16.20	2.34	2.09	18.80	1.50	1.35	21.40	1.24	1.12
16.25	2.32	2.07	18.85	1.50	1.34	21.45	1.24	1.11
16.30	2.30	2.06	18.90	1.49	1.34	21.50	1.24	1.10
16.35	2.29	2.05	18.95	1.49	1.33	21.55	1.23	1.10
16.40	2.27	2.02	19.00	1.48	1.33	21.60	1.22	1.09
16.45	2.25	2.01	19.05	1.48	1.32	21.65	1.22	1.09
16.50	2.22	1.98	19.10	1.47	1.32	21.70	1.21	1.09
16.55	2.20	1.97	19.15	1.47	1.31	21.75	1.21	1.08
16.60	2.18	1.95	19.20	1.46	1.31	21.80	1.20	1.08
16.65	2.17	1.94	19.25	1.46	1.31	21.85	1.20	1.07
16.70	2.15	1.92	19.30	1.45	1.30	21.90	1.20	1.07
16.75	2.13	1.90	19.35	1.45	1.30	21.95	1.19	1.07
16.80	2.11	1.88	19.40	1.44	1.29	22.00	1.19	1.06
16.85	2.09	1.87	19.45	1.43	1.28	22.05	1.18	1.06
16.90	2.07	1.85	19.50	1.43	1.28	22.10	1.17	1.05
16.95	2.05	1.83	19.55	1.43	1.28	22.15	1.17	1.04
17.00	2.03	1.81	19.60	1.42	1.27	22.20	1.16	1.04
17.05	2.01	1.79	19.65	1.42	1.27	22.25	1.16	1.04
17.10	1.99	1.77	19.70	1.41	1.27	22.30	1.16	1.03
17.15	1.97	1.76	19.75	1.41	1.26	22.35	1.15	1.03
17.20	1.95	1.74	19.80	1.40	1.26	22.40	1.14	1.02
17.25	1.93	1.72	19.85	1.40	1.25	22.45	1.14	1.02
17.30	1.91	1.70	19.90	1.39	1.25	22.50	1.13	1.01
17.35	1.89	1.69	19.95	1.39	1.24	22.55	1.13	1.01
17.40	1.87	1.67	20.00	1.38	1.24	22.60	1.12	1.01
17.45	1.85	1.65	20.05	1.38	1.23	22.65	1.12	1.00
17.50	1.83	1.63	20.10	1.37	1.23	22.70	1.12	1.00
17.55	1.81	1.62	20.15	1.37	1.23	22.75	1.11	0.99
17.60	1.79	1.59	20.20	1.36	1.22	22.80	1.11	0.99
17.65	1.77	1.58	20.25	1.36	1.22	22.85	1.10	0.99
17.70	1.75	1.56	20.30	1.35	1.21	22.90	1.10	0.98
17.75	1.73	1.55	20.35	1.35	1.20	22.95	1.09	0.98
17.80	1.71	1.53	20.40	1.34	1.20	23.00	1.08	0.97
17.85	1.69	1.51	20.45	1.34	1.20	23.05	1.08	0.96
17.90	1.67	1.49	20.50	1.33	1.19	23.10	1.08	0.96
17.95	1.65	1.47	20.55	1.33	1.19	23.15	1.07	0.96
18.00	1.63	1.46	20.60	1.33	1.19	23.20	1.07	0.95
18.05	1.61	1.44	20.65	1.32	1.18	23.25	1.06	0.95
18.10	1.59	1.42	20.70	1.32	1.18	23.30	1.05	0.94
18.15	1.57	1.41	20.75	1.31	1.17	23.35	1.05	0.94

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
23.40	1.04	0.93	26.00	0.00	0.00	28.60	0.00	0.00
23.45	1.04	0.93	26.05	0.00	0.00	28.65	0.00	0.00
23.50	1.03	0.93	26.10	0.00	0.00	28.70	0.00	0.00
23.55	1.03	0.92	26.15	0.00	0.00	28.75	0.00	0.00
23.60	1.03	0.92	26.20	0.00	0.00	28.80	0.00	0.00
23.65	1.02	0.91	26.25	0.00	0.00	28.85	0.00	0.00
23.70	1.02	0.91	26.30	0.00	0.00	28.90	0.00	0.00
23.75	1.01	0.91	26.35	0.00	0.00	28.95	0.00	0.00
23.80	1.00	0.90	26.40	0.00	0.00	29.00	0.00	0.00
23.85	1.00	0.89	26.45	0.00	0.00	29.05	0.00	0.00
23.90	1.00	0.89	26.50	0.00	0.00	29.10	0.00	0.00
23.95	0.99	0.89	26.55	0.00	0.00	29.15	0.00	0.00
24.00	0.99	0.89	26.60	0.00	0.00	29.20	0.00	0.00
24.05	0.91	0.76	26.65	0.00	0.00	29.25	0.00	0.00
24.10	0.50	0.34	26.70	0.00	0.00	29.30	0.00	0.00
24.15	0.20	0.13	26.75	0.00	0.00	29.35	0.00	0.00
24.20	0.08	0.05	26.80	0.00	0.00	29.40	0.00	0.00
24.25	0.03	0.02	26.85	0.00	0.00	29.45	0.00	0.00
24.30	0.01	0.01	26.90	0.00	0.00	29.50	0.00	0.00
24.35	0.00	0.00	26.95	0.00	0.00	29.55	0.00	0.00
24.40	0.00	0.00	27.00	0.00	0.00	29.60	0.00	0.00
24.45	0.00	0.00	27.05	0.00	0.00	29.65	0.00	0.00
24.50	0.00	0.00	27.10	0.00	0.00	29.70	0.00	0.00
24.55	0.00	0.00	27.15	0.00	0.00	29.75	0.00	0.00
24.60	0.00	0.00	27.20	0.00	0.00	29.80	0.00	0.00
24.65	0.00	0.00	27.25	0.00	0.00	29.85	0.00	0.00
24.70	0.00	0.00	27.30	0.00	0.00	29.90	0.00	0.00
24.75	0.00	0.00	27.35	0.00	0.00	29.95	0.00	0.00
24.80	0.00	0.00	27.40	0.00	0.00	30.00	0.00	0.00
24.85	0.00	0.00	27.45	0.00	0.00	30.05	0.00	0.00
24.90	0.00	0.00	27.50	0.00	0.00	30.10	0.00	0.00
24.95	0.00	0.00	27.55	0.00	0.00	30.15	0.00	0.00
25.00	0.00	0.00	27.60	0.00	0.00	30.20	0.00	0.00
25.05	0.00	0.00	27.65	0.00	0.00	30.25	0.00	0.00
25.10	0.00	0.00	27.70	0.00	0.00	30.30	0.00	0.00
25.15	0.00	0.00	27.75	0.00	0.00	30.35	0.00	0.00
25.20	0.00	0.00	27.80	0.00	0.00	30.40	0.00	0.00
25.25	0.00	0.00	27.85	0.00	0.00	30.45	0.00	0.00
25.30	0.00	0.00	27.90	0.00	0.00	30.50	0.00	0.00
25.35	0.00	0.00	27.95	0.00	0.00	30.55	0.00	0.00
25.40	0.00	0.00	28.00	0.00	0.00	30.60	0.00	0.00
25.45	0.00	0.00	28.05	0.00	0.00	30.65	0.00	0.00
25.50	0.00	0.00	28.10	0.00	0.00	30.70	0.00	0.00
25.55	0.00	0.00	28.15	0.00	0.00	30.75	0.00	0.00
25.60	0.00	0.00	28.20	0.00	0.00	30.80	0.00	0.00
25.65	0.00	0.00	28.25	0.00	0.00	30.85	0.00	0.00
25.70	0.00	0.00	28.30	0.00	0.00	30.90	0.00	0.00
25.75	0.00	0.00	28.35	0.00	0.00	30.95	0.00	0.00
25.80	0.00	0.00	28.40	0.00	0.00	31.00	0.00	0.00
25.85	0.00	0.00	28.45	0.00	0.00	31.05	0.00	0.00
25.90	0.00	0.00	28.50	0.00	0.00	31.10	0.00	0.00
25.95	0.00	0.00	28.55	0.00	0.00	31.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
31.20	0.00	0.00	33.80	0.00	0.00	36.40	0.00	0.00
31.25	0.00	0.00	33.85	0.00	0.00	36.45	0.00	0.00
31.30	0.00	0.00	33.90	0.00	0.00	36.50	0.00	0.00
31.35	0.00	0.00	33.95	0.00	0.00	36.55	0.00	0.00
31.40	0.00	0.00	34.00	0.00	0.00	36.60	0.00	0.00
31.45	0.00	0.00	34.05	0.00	0.00	36.65	0.00	0.00
31.50	0.00	0.00	34.10	0.00	0.00	36.70	0.00	0.00
31.55	0.00	0.00	34.15	0.00	0.00	36.75	0.00	0.00
31.60	0.00	0.00	34.20	0.00	0.00	36.80	0.00	0.00
31.65	0.00	0.00	34.25	0.00	0.00	36.85	0.00	0.00
31.70	0.00	0.00	34.30	0.00	0.00	36.90	0.00	0.00
31.75	0.00	0.00	34.35	0.00	0.00	36.95	0.00	0.00
31.80	0.00	0.00	34.40	0.00	0.00	37.00	0.00	0.00
31.85	0.00	0.00	34.45	0.00	0.00	37.05	0.00	0.00
31.90	0.00	0.00	34.50	0.00	0.00	37.10	0.00	0.00
31.95	0.00	0.00	34.55	0.00	0.00	37.15	0.00	0.00
32.00	0.00	0.00	34.60	0.00	0.00	37.20	0.00	0.00
32.05	0.00	0.00	34.65	0.00	0.00	37.25	0.00	0.00
32.10	0.00	0.00	34.70	0.00	0.00	37.30	0.00	0.00
32.15	0.00	0.00	34.75	0.00	0.00	37.35	0.00	0.00
32.20	0.00	0.00	34.80	0.00	0.00	37.40	0.00	0.00
32.25	0.00	0.00	34.85	0.00	0.00	37.45	0.00	0.00
32.30	0.00	0.00	34.90	0.00	0.00	37.50	0.00	0.00
32.35	0.00	0.00	34.95	0.00	0.00	37.55	0.00	0.00
32.40	0.00	0.00	35.00	0.00	0.00	37.60	0.00	0.00
32.45	0.00	0.00	35.05	0.00	0.00	37.65	0.00	0.00
32.50	0.00	0.00	35.10	0.00	0.00	37.70	0.00	0.00
32.55	0.00	0.00	35.15	0.00	0.00	37.75	0.00	0.00
32.60	0.00	0.00	35.20	0.00	0.00	37.80	0.00	0.00
32.65	0.00	0.00	35.25	0.00	0.00	37.85	0.00	0.00
32.70	0.00	0.00	35.30	0.00	0.00	37.90	0.00	0.00
32.75	0.00	0.00	35.35	0.00	0.00	37.95	0.00	0.00
32.80	0.00	0.00	35.40	0.00	0.00	38.00	0.00	0.00
32.85	0.00	0.00	35.45	0.00	0.00	38.05	0.00	0.00
32.90	0.00	0.00	35.50	0.00	0.00	38.10	0.00	0.00
32.95	0.00	0.00	35.55	0.00	0.00	38.15	0.00	0.00
33.00	0.00	0.00	35.60	0.00	0.00	38.20	0.00	0.00
33.05	0.00	0.00	35.65	0.00	0.00	38.25	0.00	0.00
33.10	0.00	0.00	35.70	0.00	0.00	38.30	0.00	0.00
33.15	0.00	0.00	35.75	0.00	0.00	38.35	0.00	0.00
33.20	0.00	0.00	35.80	0.00	0.00	38.40	0.00	0.00
33.25	0.00	0.00	35.85	0.00	0.00	38.45	0.00	0.00
33.30	0.00	0.00	35.90	0.00	0.00	38.50	0.00	0.00
33.35	0.00	0.00	35.95	0.00	0.00	38.55	0.00	0.00
33.40	0.00	0.00	36.00	0.00	0.00	38.60	0.00	0.00
33.45	0.00	0.00	36.05	0.00	0.00	38.65	0.00	0.00
33.50	0.00	0.00	36.10	0.00	0.00	38.70	0.00	0.00
33.55	0.00	0.00	36.15	0.00	0.00	38.75	0.00	0.00
33.60	0.00	0.00	36.20	0.00	0.00	38.80	0.00	0.00
33.65	0.00	0.00	36.25	0.00	0.00	38.85	0.00	0.00
33.70	0.00	0.00	36.30	0.00	0.00	38.90	0.00	0.00
33.75	0.00	0.00	36.35	0.00	0.00	38.95	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
39.00	0.00	0.00	41.60	0.00	0.00	44.20	0.00	0.00
39.05	0.00	0.00	41.65	0.00	0.00	44.25	0.00	0.00
39.10	0.00	0.00	41.70	0.00	0.00	44.30	0.00	0.00
39.15	0.00	0.00	41.75	0.00	0.00	44.35	0.00	0.00
39.20	0.00	0.00	41.80	0.00	0.00	44.40	0.00	0.00
39.25	0.00	0.00	41.85	0.00	0.00	44.45	0.00	0.00
39.30	0.00	0.00	41.90	0.00	0.00	44.50	0.00	0.00
39.35	0.00	0.00	41.95	0.00	0.00	44.55	0.00	0.00
39.40	0.00	0.00	42.00	0.00	0.00	44.60	0.00	0.00
39.45	0.00	0.00	42.05	0.00	0.00	44.65	0.00	0.00
39.50	0.00	0.00	42.10	0.00	0.00	44.70	0.00	0.00
39.55	0.00	0.00	42.15	0.00	0.00	44.75	0.00	0.00
39.60	0.00	0.00	42.20	0.00	0.00	44.80	0.00	0.00
39.65	0.00	0.00	42.25	0.00	0.00	44.85	0.00	0.00
39.70	0.00	0.00	42.30	0.00	0.00	44.90	0.00	0.00
39.75	0.00	0.00	42.35	0.00	0.00	44.95	0.00	0.00
39.80	0.00	0.00	42.40	0.00	0.00	45.00	0.00	0.00
39.85	0.00	0.00	42.45	0.00	0.00	45.05	0.00	0.00
39.90	0.00	0.00	42.50	0.00	0.00	45.10	0.00	0.00
39.95	0.00	0.00	42.55	0.00	0.00	45.15	0.00	0.00
40.00	0.00	0.00	42.60	0.00	0.00	45.20	0.00	0.00
40.05	0.00	0.00	42.65	0.00	0.00	45.25	0.00	0.00
40.10	0.00	0.00	42.70	0.00	0.00	45.30	0.00	0.00
40.15	0.00	0.00	42.75	0.00	0.00	45.35	0.00	0.00
40.20	0.00	0.00	42.80	0.00	0.00	45.40	0.00	0.00
40.25	0.00	0.00	42.85	0.00	0.00	45.45	0.00	0.00
40.30	0.00	0.00	42.90	0.00	0.00	45.50	0.00	0.00
40.35	0.00	0.00	42.95	0.00	0.00	45.55	0.00	0.00
40.40	0.00	0.00	43.00	0.00	0.00	45.60	0.00	0.00
40.45	0.00	0.00	43.05	0.00	0.00	45.65	0.00	0.00
40.50	0.00	0.00	43.10	0.00	0.00	45.70	0.00	0.00
40.55	0.00	0.00	43.15	0.00	0.00	45.75	0.00	0.00
40.60	0.00	0.00	43.20	0.00	0.00	45.80	0.00	0.00
40.65	0.00	0.00	43.25	0.00	0.00	45.85	0.00	0.00
40.70	0.00	0.00	43.30	0.00	0.00	45.90	0.00	0.00
40.75	0.00	0.00	43.35	0.00	0.00	45.95	0.00	0.00
40.80	0.00	0.00	43.40	0.00	0.00	46.00	0.00	0.00
40.85	0.00	0.00	43.45	0.00	0.00	46.05	0.00	0.00
40.90	0.00	0.00	43.50	0.00	0.00	46.10	0.00	0.00
40.95	0.00	0.00	43.55	0.00	0.00	46.15	0.00	0.00
41.00	0.00	0.00	43.60	0.00	0.00	46.20	0.00	0.00
41.05	0.00	0.00	43.65	0.00	0.00	46.25	0.00	0.00
41.10	0.00	0.00	43.70	0.00	0.00	46.30	0.00	0.00
41.15	0.00	0.00	43.75	0.00	0.00	46.35	0.00	0.00
41.20	0.00	0.00	43.80	0.00	0.00	46.40	0.00	0.00
41.25	0.00	0.00	43.85	0.00	0.00	46.45	0.00	0.00
41.30	0.00	0.00	43.90	0.00	0.00	46.50	0.00	0.00
41.35	0.00	0.00	43.95	0.00	0.00	46.55	0.00	0.00
41.40	0.00	0.00	44.00	0.00	0.00	46.60	0.00	0.00
41.45	0.00	0.00	44.05	0.00	0.00	46.65	0.00	0.00
41.50	0.00	0.00	44.10	0.00	0.00	46.70	0.00	0.00
41.55	0.00	0.00	44.15	0.00	0.00	46.75	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
46.80	0.00	0.00	49.40	0.00	0.00	52.00	0.00	0.00
46.85	0.00	0.00	49.45	0.00	0.00	52.05	0.00	0.00
46.90	0.00	0.00	49.50	0.00	0.00	52.10	0.00	0.00
46.95	0.00	0.00	49.55	0.00	0.00	52.15	0.00	0.00
47.00	0.00	0.00	49.60	0.00	0.00	52.20	0.00	0.00
47.05	0.00	0.00	49.65	0.00	0.00	52.25	0.00	0.00
47.10	0.00	0.00	49.70	0.00	0.00	52.30	0.00	0.00
47.15	0.00	0.00	49.75	0.00	0.00	52.35	0.00	0.00
47.20	0.00	0.00	49.80	0.00	0.00	52.40	0.00	0.00
47.25	0.00	0.00	49.85	0.00	0.00	52.45	0.00	0.00
47.30	0.00	0.00	49.90	0.00	0.00	52.50	0.00	0.00
47.35	0.00	0.00	49.95	0.00	0.00	52.55	0.00	0.00
47.40	0.00	0.00	50.00	0.00	0.00	52.60	0.00	0.00
47.45	0.00	0.00	50.05	0.00	0.00	52.65	0.00	0.00
47.50	0.00	0.00	50.10	0.00	0.00	52.70	0.00	0.00
47.55	0.00	0.00	50.15	0.00	0.00	52.75	0.00	0.00
47.60	0.00	0.00	50.20	0.00	0.00	52.80	0.00	0.00
47.65	0.00	0.00	50.25	0.00	0.00	52.85	0.00	0.00
47.70	0.00	0.00	50.30	0.00	0.00	52.90	0.00	0.00
47.75	0.00	0.00	50.35	0.00	0.00	52.95	0.00	0.00
47.80	0.00	0.00	50.40	0.00	0.00	53.00	0.00	0.00
47.85	0.00	0.00	50.45	0.00	0.00	53.05	0.00	0.00
47.90	0.00	0.00	50.50	0.00	0.00	53.10	0.00	0.00
47.95	0.00	0.00	50.55	0.00	0.00	53.15	0.00	0.00
48.00	0.00	0.00	50.60	0.00	0.00	53.20	0.00	0.00
48.05	0.00	0.00	50.65	0.00	0.00	53.25	0.00	0.00
48.10	0.00	0.00	50.70	0.00	0.00	53.30	0.00	0.00
48.15	0.00	0.00	50.75	0.00	0.00	53.35	0.00	0.00
48.20	0.00	0.00	50.80	0.00	0.00	53.40	0.00	0.00
48.25	0.00	0.00	50.85	0.00	0.00	53.45	0.00	0.00
48.30	0.00	0.00	50.90	0.00	0.00	53.50	0.00	0.00
48.35	0.00	0.00	50.95	0.00	0.00	53.55	0.00	0.00
48.40	0.00	0.00	51.00	0.00	0.00	53.60	0.00	0.00
48.45	0.00	0.00	51.05	0.00	0.00	53.65	0.00	0.00
48.50	0.00	0.00	51.10	0.00	0.00	53.70	0.00	0.00
48.55	0.00	0.00	51.15	0.00	0.00	53.75	0.00	0.00
48.60	0.00	0.00	51.20	0.00	0.00	53.80	0.00	0.00
48.65	0.00	0.00	51.25	0.00	0.00	53.85	0.00	0.00
48.70	0.00	0.00	51.30	0.00	0.00	53.90	0.00	0.00
48.75	0.00	0.00	51.35	0.00	0.00	53.95	0.00	0.00
48.80	0.00	0.00	51.40	0.00	0.00	54.00	0.00	0.00
48.85	0.00	0.00	51.45	0.00	0.00	54.05	0.00	0.00
48.90	0.00	0.00	51.50	0.00	0.00	54.10	0.00	0.00
48.95	0.00	0.00	51.55	0.00	0.00	54.15	0.00	0.00
49.00	0.00	0.00	51.60	0.00	0.00	54.20	0.00	0.00
49.05	0.00	0.00	51.65	0.00	0.00	54.25	0.00	0.00
49.10	0.00	0.00	51.70	0.00	0.00	54.30	0.00	0.00
49.15	0.00	0.00	51.75	0.00	0.00	54.35	0.00	0.00
49.20	0.00	0.00	51.80	0.00	0.00	54.40	0.00	0.00
49.25	0.00	0.00	51.85	0.00	0.00	54.45	0.00	0.00
49.30	0.00	0.00	51.90	0.00	0.00	54.50	0.00	0.00
49.35	0.00	0.00	51.95	0.00	0.00	54.55	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
54.60	0.00	0.00	57.20	0.00	0.00	59.80	0.00	0.00
54.65	0.00	0.00	57.25	0.00	0.00	59.85	0.00	0.00
54.70	0.00	0.00	57.30	0.00	0.00	59.90	0.00	0.00
54.75	0.00	0.00	57.35	0.00	0.00	59.95	0.00	0.00
54.80	0.00	0.00	57.40	0.00	0.00	60.00	0.00	0.00
54.85	0.00	0.00	57.45	0.00	0.00	60.05	0.00	0.00
54.90	0.00	0.00	57.50	0.00	0.00	60.10	0.00	0.00
54.95	0.00	0.00	57.55	0.00	0.00	60.15	0.00	0.00
55.00	0.00	0.00	57.60	0.00	0.00	60.20	0.00	0.00
55.05	0.00	0.00	57.65	0.00	0.00	60.25	0.00	0.00
55.10	0.00	0.00	57.70	0.00	0.00	60.30	0.00	0.00
55.15	0.00	0.00	57.75	0.00	0.00	60.35	0.00	0.00
55.20	0.00	0.00	57.80	0.00	0.00	60.40	0.00	0.00
55.25	0.00	0.00	57.85	0.00	0.00	60.45	0.00	0.00
55.30	0.00	0.00	57.90	0.00	0.00	60.50	0.00	0.00
55.35	0.00	0.00	57.95	0.00	0.00	60.55	0.00	0.00
55.40	0.00	0.00	58.00	0.00	0.00	60.60	0.00	0.00
55.45	0.00	0.00	58.05	0.00	0.00	60.65	0.00	0.00
55.50	0.00	0.00	58.10	0.00	0.00	60.70	0.00	0.00
55.55	0.00	0.00	58.15	0.00	0.00	60.75	0.00	0.00
55.60	0.00	0.00	58.20	0.00	0.00	60.80	0.00	0.00
55.65	0.00	0.00	58.25	0.00	0.00	60.85	0.00	0.00
55.70	0.00	0.00	58.30	0.00	0.00	60.90	0.00	0.00
55.75	0.00	0.00	58.35	0.00	0.00	60.95	0.00	0.00
55.80	0.00	0.00	58.40	0.00	0.00	61.00	0.00	0.00
55.85	0.00	0.00	58.45	0.00	0.00	61.05	0.00	0.00
55.90	0.00	0.00	58.50	0.00	0.00	61.10	0.00	0.00
55.95	0.00	0.00	58.55	0.00	0.00	61.15	0.00	0.00
56.00	0.00	0.00	58.60	0.00	0.00	61.20	0.00	0.00
56.05	0.00	0.00	58.65	0.00	0.00	61.25	0.00	0.00
56.10	0.00	0.00	58.70	0.00	0.00	61.30	0.00	0.00
56.15	0.00	0.00	58.75	0.00	0.00	61.35	0.00	0.00
56.20	0.00	0.00	58.80	0.00	0.00	61.40	0.00	0.00
56.25	0.00	0.00	58.85	0.00	0.00	61.45	0.00	0.00
56.30	0.00	0.00	58.90	0.00	0.00	61.50	0.00	0.00
56.35	0.00	0.00	58.95	0.00	0.00	61.55	0.00	0.00
56.40	0.00	0.00	59.00	0.00	0.00	61.60	0.00	0.00
56.45	0.00	0.00	59.05	0.00	0.00	61.65	0.00	0.00
56.50	0.00	0.00	59.10	0.00	0.00	61.70	0.00	0.00
56.55	0.00	0.00	59.15	0.00	0.00	61.75	0.00	0.00
56.60	0.00	0.00	59.20	0.00	0.00	61.80	0.00	0.00
56.65	0.00	0.00	59.25	0.00	0.00	61.85	0.00	0.00
56.70	0.00	0.00	59.30	0.00	0.00	61.90	0.00	0.00
56.75	0.00	0.00	59.35	0.00	0.00	61.95	0.00	0.00
56.80	0.00	0.00	59.40	0.00	0.00	62.00	0.00	0.00
56.85	0.00	0.00	59.45	0.00	0.00	62.05	0.00	0.00
56.90	0.00	0.00	59.50	0.00	0.00	62.10	0.00	0.00
56.95	0.00	0.00	59.55	0.00	0.00	62.15	0.00	0.00
57.00	0.00	0.00	59.60	0.00	0.00	62.20	0.00	0.00
57.05	0.00	0.00	59.65	0.00	0.00	62.25	0.00	0.00
57.10	0.00	0.00	59.70	0.00	0.00	62.30	0.00	0.00
57.15	0.00	0.00	59.75	0.00	0.00	62.35	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)	Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
62.40	0.00	0.00	65.00	0.00	0.00	67.60	0.00	0.00
62.45	0.00	0.00	65.05	0.00	0.00	67.65	0.00	0.00
62.50	0.00	0.00	65.10	0.00	0.00	67.70	0.00	0.00
62.55	0.00	0.00	65.15	0.00	0.00	67.75	0.00	0.00
62.60	0.00	0.00	65.20	0.00	0.00	67.80	0.00	0.00
62.65	0.00	0.00	65.25	0.00	0.00	67.85	0.00	0.00
62.70	0.00	0.00	65.30	0.00	0.00	67.90	0.00	0.00
62.75	0.00	0.00	65.35	0.00	0.00	67.95	0.00	0.00
62.80	0.00	0.00	65.40	0.00	0.00	68.00	0.00	0.00
62.85	0.00	0.00	65.45	0.00	0.00	68.05	0.00	0.00
62.90	0.00	0.00	65.50	0.00	0.00	68.10	0.00	0.00
62.95	0.00	0.00	65.55	0.00	0.00	68.15	0.00	0.00
63.00	0.00	0.00	65.60	0.00	0.00	68.20	0.00	0.00
63.05	0.00	0.00	65.65	0.00	0.00	68.25	0.00	0.00
63.10	0.00	0.00	65.70	0.00	0.00	68.30	0.00	0.00
63.15	0.00	0.00	65.75	0.00	0.00	68.35	0.00	0.00
63.20	0.00	0.00	65.80	0.00	0.00	68.40	0.00	0.00
63.25	0.00	0.00	65.85	0.00	0.00	68.45	0.00	0.00
63.30	0.00	0.00	65.90	0.00	0.00	68.50	0.00	0.00
63.35	0.00	0.00	65.95	0.00	0.00	68.55	0.00	0.00
63.40	0.00	0.00	66.00	0.00	0.00	68.60	0.00	0.00
63.45	0.00	0.00	66.05	0.00	0.00	68.65	0.00	0.00
63.50	0.00	0.00	66.10	0.00	0.00	68.70	0.00	0.00
63.55	0.00	0.00	66.15	0.00	0.00	68.75	0.00	0.00
63.60	0.00	0.00	66.20	0.00	0.00	68.80	0.00	0.00
63.65	0.00	0.00	66.25	0.00	0.00	68.85	0.00	0.00
63.70	0.00	0.00	66.30	0.00	0.00	68.90	0.00	0.00
63.75	0.00	0.00	66.35	0.00	0.00	68.95	0.00	0.00
63.80	0.00	0.00	66.40	0.00	0.00	69.00	0.00	0.00
63.85	0.00	0.00	66.45	0.00	0.00	69.05	0.00	0.00
63.90	0.00	0.00	66.50	0.00	0.00	69.10	0.00	0.00
63.95	0.00	0.00	66.55	0.00	0.00	69.15	0.00	0.00
64.00	0.00	0.00	66.60	0.00	0.00	69.20	0.00	0.00
64.05	0.00	0.00	66.65	0.00	0.00	69.25	0.00	0.00
64.10	0.00	0.00	66.70	0.00	0.00	69.30	0.00	0.00
64.15	0.00	0.00	66.75	0.00	0.00	69.35	0.00	0.00
64.20	0.00	0.00	66.80	0.00	0.00	69.40	0.00	0.00
64.25	0.00	0.00	66.85	0.00	0.00	69.45	0.00	0.00
64.30	0.00	0.00	66.90	0.00	0.00	69.50	0.00	0.00
64.35	0.00	0.00	66.95	0.00	0.00	69.55	0.00	0.00
64.40	0.00	0.00	67.00	0.00	0.00	69.60	0.00	0.00
64.45	0.00	0.00	67.05	0.00	0.00	69.65	0.00	0.00
64.50	0.00	0.00	67.10	0.00	0.00	69.70	0.00	0.00
64.55	0.00	0.00	67.15	0.00	0.00	69.75	0.00	0.00
64.60	0.00	0.00	67.20	0.00	0.00	69.80	0.00	0.00
64.65	0.00	0.00	67.25	0.00	0.00	69.85	0.00	0.00
64.70	0.00	0.00	67.30	0.00	0.00	69.90	0.00	0.00
64.75	0.00	0.00	67.35	0.00	0.00	69.95	0.00	0.00
64.80	0.00	0.00	67.40	0.00	0.00	70.00	0.00	0.00
64.85	0.00	0.00	67.45	0.00	0.00	70.05	0.00	0.00
64.90	0.00	0.00	67.50	0.00	0.00	70.10	0.00	0.00
64.95	0.00	0.00	67.55	0.00	0.00	70.15	0.00	0.00

**Primary Comparison (continued)**

Time (hours)	Link EX-2 (cfs)	Link P-2 (cfs)
70.20	0.00	0.00
70.25	0.00	0.00
70.30	0.00	0.00
70.35	0.00	0.00
70.40	0.00	0.00
70.45	0.00	0.00
70.50	0.00	0.00
70.55	0.00	0.00
70.60	0.00	0.00
70.65	0.00	0.00
70.70	0.00	0.00
70.75	0.00	0.00
70.80	0.00	0.00
70.85	0.00	0.00
70.90	0.00	0.00
70.95	0.00	0.00
71.00	0.00	0.00
71.05	0.00	0.00
71.10	0.00	0.00
71.15	0.00	0.00
71.20	0.00	0.00
71.25	0.00	0.00
71.30	0.00	0.00
71.35	0.00	0.00
71.40	0.00	0.00
71.45	0.00	0.00
71.50	0.00	0.00
71.55	0.00	0.00
71.60	0.00	0.00
71.65	0.00	0.00
71.70	0.00	0.00
71.75	0.00	0.00
71.80	0.00	0.00
71.85	0.00	0.00
71.90	0.00	0.00
71.95	0.00	0.00
72.00	0.00	0.00



**Summary for Subcatchment P-1B-1: Area 1**

Runoff = 0.45 cfs @ 1.09 hrs, Volume= 515 cf, Depth= 0.65"  
 Routed to Pond PV-1 : Pervious Pavers 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

**Hydrograph for Subcatchment P-1B-1: Area 1**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.01
0.60	0.14	0.00	0.03	0.02
0.80	0.23	0.00	0.09	0.05
1.00	0.63	0.02	0.43	<b>0.37</b>
1.20	1.02	0.14	0.81	<b>0.13</b>
1.40	1.11	0.18	0.90	0.06
1.60	1.18	0.21	0.97	0.05
1.80	1.23	0.23	1.02	0.02
2.00	<b>1.25</b>	<b>0.24</b>	<b>1.03</b>	0.02
2.20	1.25	0.24	1.03	0.00
2.40	1.25	0.24	1.03	0.00
2.60	1.25	0.24	1.03	0.00
2.80	1.25	0.24	1.03	0.00
3.00	1.25	0.24	1.03	0.00
3.20	1.25	0.24	1.03	0.00
3.40	1.25	0.24	1.03	0.00
3.60	1.25	0.24	1.03	0.00
3.80	1.25	0.24	1.03	0.00
4.00	1.25	0.24	1.03	0.00
4.20	1.25	0.24	1.03	0.00
4.40	1.25	0.24	1.03	0.00
4.60	1.25	0.24	1.03	0.00
4.80	1.25	0.24	1.03	0.00
5.00	1.25	0.24	1.03	0.00
5.20	1.25	0.24	1.03	0.00
5.40	1.25	0.24	1.03	0.00
5.60	1.25	0.24	1.03	0.00
5.80	1.25	0.24	1.03	0.00
6.00	1.25	0.24	1.03	0.00
6.20	1.25	0.24	1.03	0.00
6.40	1.25	0.24	1.03	0.00
6.60	1.25	0.24	1.03	0.00
6.80	1.25	0.24	1.03	0.00
7.00	1.25	0.24	1.03	0.00
7.20	1.25	0.24	1.03	0.00
7.40	1.25	0.24	1.03	0.00
7.60	1.25	0.24	1.03	0.00
7.80	1.25	0.24	1.03	0.00
8.00	1.25	0.24	1.03	0.00
8.20	1.25	0.24	1.03	0.00
8.40	1.25	0.24	1.03	0.00
8.60	1.25	0.24	1.03	0.00
8.80	1.25	0.24	1.03	0.00
9.00	1.25	0.24	1.03	0.00
9.20	1.25	0.24	1.03	0.00
9.40	1.25	0.24	1.03	0.00
9.60	1.25	0.24	1.03	0.00
9.80	1.25	0.24	1.03	0.00
10.00	1.25	0.24	1.03	0.00
10.20	1.25	0.24	1.03	0.00

Hydrograph for Subcatchment P-1B-1: Area 1 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.24	1.03	0.00
10.60	1.25	0.24	1.03	0.00
10.80	1.25	0.24	1.03	0.00
11.00	1.25	0.24	1.03	0.00
11.20	1.25	0.24	1.03	0.00
11.40	1.25	0.24	1.03	0.00
11.60	1.25	0.24	1.03	0.00
11.80	1.25	0.24	1.03	0.00
12.00	1.25	0.24	1.03	0.00
12.20	1.25	0.24	1.03	0.00
12.40	1.25	0.24	1.03	0.00
12.60	1.25	0.24	1.03	0.00
12.80	1.25	0.24	1.03	0.00
13.00	1.25	0.24	1.03	0.00
13.20	1.25	0.24	1.03	0.00
13.40	1.25	0.24	1.03	0.00
13.60	1.25	0.24	1.03	0.00
13.80	1.25	0.24	1.03	0.00
14.00	1.25	0.24	1.03	0.00
14.20	1.25	0.24	1.03	0.00
14.40	1.25	0.24	1.03	0.00
14.60	1.25	0.24	1.03	0.00
14.80	1.25	0.24	1.03	0.00
15.00	1.25	0.24	1.03	0.00
15.20	1.25	0.24	1.03	0.00
15.40	1.25	0.24	1.03	0.00
15.60	1.25	0.24	1.03	0.00
15.80	1.25	0.24	1.03	0.00
16.00	1.25	0.24	1.03	0.00
16.20	1.25	0.24	1.03	0.00
16.40	1.25	0.24	1.03	0.00
16.60	1.25	0.24	1.03	0.00
16.80	1.25	0.24	1.03	0.00
17.00	1.25	0.24	1.03	0.00
17.20	1.25	0.24	1.03	0.00
17.40	1.25	0.24	1.03	0.00
17.60	1.25	0.24	1.03	0.00
17.80	1.25	0.24	1.03	0.00
18.00	1.25	0.24	1.03	0.00
18.20	1.25	0.24	1.03	0.00
18.40	1.25	0.24	1.03	0.00
18.60	1.25	0.24	1.03	0.00
18.80	1.25	0.24	1.03	0.00
19.00	1.25	0.24	1.03	0.00
19.20	1.25	0.24	1.03	0.00
19.40	1.25	0.24	1.03	0.00
19.60	1.25	0.24	1.03	0.00
19.80	1.25	0.24	1.03	0.00
20.00	1.25	0.24	1.03	0.00
20.20	1.25	0.24	1.03	0.00
20.40	1.25	0.24	1.03	0.00
20.60	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.24	1.03	0.00
21.00	1.25	0.24	1.03	0.00
21.20	1.25	0.24	1.03	0.00
21.40	1.25	0.24	1.03	0.00
21.60	1.25	0.24	1.03	0.00
21.80	1.25	0.24	1.03	0.00
22.00	1.25	0.24	1.03	0.00
22.20	1.25	0.24	1.03	0.00
22.40	1.25	0.24	1.03	0.00
22.60	1.25	0.24	1.03	0.00
22.80	1.25	0.24	1.03	0.00
23.00	1.25	0.24	1.03	0.00
23.20	1.25	0.24	1.03	0.00
23.40	1.25	0.24	1.03	0.00
23.60	1.25	0.24	1.03	0.00
23.80	1.25	0.24	1.03	0.00
24.00	1.25	0.24	1.03	0.00
24.20	1.25	0.24	1.03	0.00
24.40	1.25	0.24	1.03	0.00
24.60	1.25	0.24	1.03	0.00
24.80	1.25	0.24	1.03	0.00
25.00	1.25	0.24	1.03	0.00
25.20	1.25	0.24	1.03	0.00
25.40	1.25	0.24	1.03	0.00
25.60	1.25	0.24	1.03	0.00
25.80	1.25	0.24	1.03	0.00
26.00	1.25	0.24	1.03	0.00
26.20	1.25	0.24	1.03	0.00
26.40	1.25	0.24	1.03	0.00
26.60	1.25	0.24	1.03	0.00
26.80	1.25	0.24	1.03	0.00
27.00	1.25	0.24	1.03	0.00
27.20	1.25	0.24	1.03	0.00
27.40	1.25	0.24	1.03	0.00
27.60	1.25	0.24	1.03	0.00
27.80	1.25	0.24	1.03	0.00
28.00	1.25	0.24	1.03	0.00
28.20	1.25	0.24	1.03	0.00
28.40	1.25	0.24	1.03	0.00
28.60	1.25	0.24	1.03	0.00
28.80	1.25	0.24	1.03	0.00
29.00	1.25	0.24	1.03	0.00
29.20	1.25	0.24	1.03	0.00
29.40	1.25	0.24	1.03	0.00
29.60	1.25	0.24	1.03	0.00
29.80	1.25	0.24	1.03	0.00
30.00	1.25	0.24	1.03	0.00
30.20	1.25	0.24	1.03	0.00
30.40	1.25	0.24	1.03	0.00
30.60	1.25	0.24	1.03	0.00
30.80	1.25	0.24	1.03	0.00
31.00	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.24	1.03	0.00
31.40	1.25	0.24	1.03	0.00
31.60	1.25	0.24	1.03	0.00
31.80	1.25	0.24	1.03	0.00
32.00	1.25	0.24	1.03	0.00
32.20	1.25	0.24	1.03	0.00
32.40	1.25	0.24	1.03	0.00
32.60	1.25	0.24	1.03	0.00
32.80	1.25	0.24	1.03	0.00
33.00	1.25	0.24	1.03	0.00
33.20	1.25	0.24	1.03	0.00
33.40	1.25	0.24	1.03	0.00
33.60	1.25	0.24	1.03	0.00
33.80	1.25	0.24	1.03	0.00
34.00	1.25	0.24	1.03	0.00
34.20	1.25	0.24	1.03	0.00
34.40	1.25	0.24	1.03	0.00
34.60	1.25	0.24	1.03	0.00
34.80	1.25	0.24	1.03	0.00
35.00	1.25	0.24	1.03	0.00
35.20	1.25	0.24	1.03	0.00
35.40	1.25	0.24	1.03	0.00
35.60	1.25	0.24	1.03	0.00
35.80	1.25	0.24	1.03	0.00
36.00	1.25	0.24	1.03	0.00
36.20	1.25	0.24	1.03	0.00
36.40	1.25	0.24	1.03	0.00
36.60	1.25	0.24	1.03	0.00
36.80	1.25	0.24	1.03	0.00
37.00	1.25	0.24	1.03	0.00
37.20	1.25	0.24	1.03	0.00
37.40	1.25	0.24	1.03	0.00
37.60	1.25	0.24	1.03	0.00
37.80	1.25	0.24	1.03	0.00
38.00	1.25	0.24	1.03	0.00
38.20	1.25	0.24	1.03	0.00
38.40	1.25	0.24	1.03	0.00
38.60	1.25	0.24	1.03	0.00
38.80	1.25	0.24	1.03	0.00
39.00	1.25	0.24	1.03	0.00
39.20	1.25	0.24	1.03	0.00
39.40	1.25	0.24	1.03	0.00
39.60	1.25	0.24	1.03	0.00
39.80	1.25	0.24	1.03	0.00
40.00	1.25	0.24	1.03	0.00
40.20	1.25	0.24	1.03	0.00
40.40	1.25	0.24	1.03	0.00
40.60	1.25	0.24	1.03	0.00
40.80	1.25	0.24	1.03	0.00
41.00	1.25	0.24	1.03	0.00
41.20	1.25	0.24	1.03	0.00
41.40	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.24	1.03	0.00
41.80	1.25	0.24	1.03	0.00
42.00	1.25	0.24	1.03	0.00
42.20	1.25	0.24	1.03	0.00
42.40	1.25	0.24	1.03	0.00
42.60	1.25	0.24	1.03	0.00
42.80	1.25	0.24	1.03	0.00
43.00	1.25	0.24	1.03	0.00
43.20	1.25	0.24	1.03	0.00
43.40	1.25	0.24	1.03	0.00
43.60	1.25	0.24	1.03	0.00
43.80	1.25	0.24	1.03	0.00
44.00	1.25	0.24	1.03	0.00
44.20	1.25	0.24	1.03	0.00
44.40	1.25	0.24	1.03	0.00
44.60	1.25	0.24	1.03	0.00
44.80	1.25	0.24	1.03	0.00
45.00	1.25	0.24	1.03	0.00
45.20	1.25	0.24	1.03	0.00
45.40	1.25	0.24	1.03	0.00
45.60	1.25	0.24	1.03	0.00
45.80	1.25	0.24	1.03	0.00
46.00	1.25	0.24	1.03	0.00
46.20	1.25	0.24	1.03	0.00
46.40	1.25	0.24	1.03	0.00
46.60	1.25	0.24	1.03	0.00
46.80	1.25	0.24	1.03	0.00
47.00	1.25	0.24	1.03	0.00
47.20	1.25	0.24	1.03	0.00
47.40	1.25	0.24	1.03	0.00
47.60	1.25	0.24	1.03	0.00
47.80	1.25	0.24	1.03	0.00
48.00	1.25	0.24	1.03	0.00
48.20	1.25	0.24	1.03	0.00
48.40	1.25	0.24	1.03	0.00
48.60	1.25	0.24	1.03	0.00
48.80	1.25	0.24	1.03	0.00
49.00	1.25	0.24	1.03	0.00
49.20	1.25	0.24	1.03	0.00
49.40	1.25	0.24	1.03	0.00
49.60	1.25	0.24	1.03	0.00
49.80	1.25	0.24	1.03	0.00
50.00	1.25	0.24	1.03	0.00
50.20	1.25	0.24	1.03	0.00
50.40	1.25	0.24	1.03	0.00
50.60	1.25	0.24	1.03	0.00
50.80	1.25	0.24	1.03	0.00
51.00	1.25	0.24	1.03	0.00
51.20	1.25	0.24	1.03	0.00
51.40	1.25	0.24	1.03	0.00
51.60	1.25	0.24	1.03	0.00
51.80	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.24	1.03	0.00
52.20	1.25	0.24	1.03	0.00
52.40	1.25	0.24	1.03	0.00
52.60	1.25	0.24	1.03	0.00
52.80	1.25	0.24	1.03	0.00
53.00	1.25	0.24	1.03	0.00
53.20	1.25	0.24	1.03	0.00
53.40	1.25	0.24	1.03	0.00
53.60	1.25	0.24	1.03	0.00
53.80	1.25	0.24	1.03	0.00
54.00	1.25	0.24	1.03	0.00
54.20	1.25	0.24	1.03	0.00
54.40	1.25	0.24	1.03	0.00
54.60	1.25	0.24	1.03	0.00
54.80	1.25	0.24	1.03	0.00
55.00	1.25	0.24	1.03	0.00
55.20	1.25	0.24	1.03	0.00
55.40	1.25	0.24	1.03	0.00
55.60	1.25	0.24	1.03	0.00
55.80	1.25	0.24	1.03	0.00
56.00	1.25	0.24	1.03	0.00
56.20	1.25	0.24	1.03	0.00
56.40	1.25	0.24	1.03	0.00
56.60	1.25	0.24	1.03	0.00
56.80	1.25	0.24	1.03	0.00
57.00	1.25	0.24	1.03	0.00
57.20	1.25	0.24	1.03	0.00
57.40	1.25	0.24	1.03	0.00
57.60	1.25	0.24	1.03	0.00
57.80	1.25	0.24	1.03	0.00
58.00	1.25	0.24	1.03	0.00
58.20	1.25	0.24	1.03	0.00
58.40	1.25	0.24	1.03	0.00
58.60	1.25	0.24	1.03	0.00
58.80	1.25	0.24	1.03	0.00
59.00	1.25	0.24	1.03	0.00
59.20	1.25	0.24	1.03	0.00
59.40	1.25	0.24	1.03	0.00
59.60	1.25	0.24	1.03	0.00
59.80	1.25	0.24	1.03	0.00
60.00	1.25	0.24	1.03	0.00
60.20	1.25	0.24	1.03	0.00
60.40	1.25	0.24	1.03	0.00
60.60	1.25	0.24	1.03	0.00
60.80	1.25	0.24	1.03	0.00
61.00	1.25	0.24	1.03	0.00
61.20	1.25	0.24	1.03	0.00
61.40	1.25	0.24	1.03	0.00
61.60	1.25	0.24	1.03	0.00
61.80	1.25	0.24	1.03	0.00
62.00	1.25	0.24	1.03	0.00
62.20	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.24	1.03	0.00
62.60	1.25	0.24	1.03	0.00
62.80	1.25	0.24	1.03	0.00
63.00	1.25	0.24	1.03	0.00
63.20	1.25	0.24	1.03	0.00
63.40	1.25	0.24	1.03	0.00
63.60	1.25	0.24	1.03	0.00
63.80	1.25	0.24	1.03	0.00
64.00	1.25	0.24	1.03	0.00
64.20	1.25	0.24	1.03	0.00
64.40	1.25	0.24	1.03	0.00
64.60	1.25	0.24	1.03	0.00
64.80	1.25	0.24	1.03	0.00
65.00	1.25	0.24	1.03	0.00
65.20	1.25	0.24	1.03	0.00
65.40	1.25	0.24	1.03	0.00
65.60	1.25	0.24	1.03	0.00
65.80	1.25	0.24	1.03	0.00
66.00	1.25	0.24	1.03	0.00
66.20	1.25	0.24	1.03	0.00
66.40	1.25	0.24	1.03	0.00
66.60	1.25	0.24	1.03	0.00
66.80	1.25	0.24	1.03	0.00
67.00	1.25	0.24	1.03	0.00
67.20	1.25	0.24	1.03	0.00
67.40	1.25	0.24	1.03	0.00
67.60	1.25	0.24	1.03	0.00
67.80	1.25	0.24	1.03	0.00
68.00	1.25	0.24	1.03	0.00
68.20	1.25	0.24	1.03	0.00
68.40	1.25	0.24	1.03	0.00
68.60	1.25	0.24	1.03	0.00
68.80	1.25	0.24	1.03	0.00
69.00	1.25	0.24	1.03	0.00
69.20	1.25	0.24	1.03	0.00
69.40	1.25	0.24	1.03	0.00
69.60	1.25	0.24	1.03	0.00
69.80	1.25	0.24	1.03	0.00
70.00	1.25	0.24	1.03	0.00
70.20	1.25	0.24	1.03	0.00
70.40	1.25	0.24	1.03	0.00
70.60	1.25	0.24	1.03	0.00
70.80	1.25	0.24	1.03	0.00
71.00	1.25	0.24	1.03	0.00
71.20	1.25	0.24	1.03	0.00
71.40	1.25	0.24	1.03	0.00
71.60	1.25	0.24	1.03	0.00
71.80	1.25	0.24	1.03	0.00
72.00	1.25	0.24	1.03	0.00



**Summary for Subcatchment P-1B-2: Area 2**

Runoff = 0.20 cfs @ 1.09 hrs, Volume= 230 cf, Depth= 0.57"  
 Routed to Pond PV-2 : Pervious Pavers 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

Prepared by Stonefield Engineering &amp; Design

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**Hydrograph for Subcatchment P-1B-2: Area 2**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.02
1.00	0.63	0.03	0.43	<b>0.15</b>
1.20	1.02	0.16	0.81	<b>0.07</b>
1.40	1.11	0.20	0.90	0.03
1.60	1.18	0.24	0.97	0.02
1.80	1.23	0.26	1.02	0.01
2.00	<b>1.25</b>	<b>0.27</b>	<b>1.03</b>	0.01
2.20	1.25	0.27	1.03	0.00
2.40	1.25	0.27	1.03	0.00
2.60	1.25	0.27	1.03	0.00
2.80	1.25	0.27	1.03	0.00
3.00	1.25	0.27	1.03	0.00
3.20	1.25	0.27	1.03	0.00
3.40	1.25	0.27	1.03	0.00
3.60	1.25	0.27	1.03	0.00
3.80	1.25	0.27	1.03	0.00
4.00	1.25	0.27	1.03	0.00
4.20	1.25	0.27	1.03	0.00
4.40	1.25	0.27	1.03	0.00
4.60	1.25	0.27	1.03	0.00
4.80	1.25	0.27	1.03	0.00
5.00	1.25	0.27	1.03	0.00
5.20	1.25	0.27	1.03	0.00
5.40	1.25	0.27	1.03	0.00
5.60	1.25	0.27	1.03	0.00
5.80	1.25	0.27	1.03	0.00
6.00	1.25	0.27	1.03	0.00
6.20	1.25	0.27	1.03	0.00
6.40	1.25	0.27	1.03	0.00
6.60	1.25	0.27	1.03	0.00
6.80	1.25	0.27	1.03	0.00
7.00	1.25	0.27	1.03	0.00
7.20	1.25	0.27	1.03	0.00
7.40	1.25	0.27	1.03	0.00
7.60	1.25	0.27	1.03	0.00
7.80	1.25	0.27	1.03	0.00
8.00	1.25	0.27	1.03	0.00
8.20	1.25	0.27	1.03	0.00
8.40	1.25	0.27	1.03	0.00
8.60	1.25	0.27	1.03	0.00
8.80	1.25	0.27	1.03	0.00
9.00	1.25	0.27	1.03	0.00
9.20	1.25	0.27	1.03	0.00
9.40	1.25	0.27	1.03	0.00
9.60	1.25	0.27	1.03	0.00
9.80	1.25	0.27	1.03	0.00
10.00	1.25	0.27	1.03	0.00
10.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.27	1.03	0.00
10.60	1.25	0.27	1.03	0.00
10.80	1.25	0.27	1.03	0.00
11.00	1.25	0.27	1.03	0.00
11.20	1.25	0.27	1.03	0.00
11.40	1.25	0.27	1.03	0.00
11.60	1.25	0.27	1.03	0.00
11.80	1.25	0.27	1.03	0.00
12.00	1.25	0.27	1.03	0.00
12.20	1.25	0.27	1.03	0.00
12.40	1.25	0.27	1.03	0.00
12.60	1.25	0.27	1.03	0.00
12.80	1.25	0.27	1.03	0.00
13.00	1.25	0.27	1.03	0.00
13.20	1.25	0.27	1.03	0.00
13.40	1.25	0.27	1.03	0.00
13.60	1.25	0.27	1.03	0.00
13.80	1.25	0.27	1.03	0.00
14.00	1.25	0.27	1.03	0.00
14.20	1.25	0.27	1.03	0.00
14.40	1.25	0.27	1.03	0.00
14.60	1.25	0.27	1.03	0.00
14.80	1.25	0.27	1.03	0.00
15.00	1.25	0.27	1.03	0.00
15.20	1.25	0.27	1.03	0.00
15.40	1.25	0.27	1.03	0.00
15.60	1.25	0.27	1.03	0.00
15.80	1.25	0.27	1.03	0.00
16.00	1.25	0.27	1.03	0.00
16.20	1.25	0.27	1.03	0.00
16.40	1.25	0.27	1.03	0.00
16.60	1.25	0.27	1.03	0.00
16.80	1.25	0.27	1.03	0.00
17.00	1.25	0.27	1.03	0.00
17.20	1.25	0.27	1.03	0.00
17.40	1.25	0.27	1.03	0.00
17.60	1.25	0.27	1.03	0.00
17.80	1.25	0.27	1.03	0.00
18.00	1.25	0.27	1.03	0.00
18.20	1.25	0.27	1.03	0.00
18.40	1.25	0.27	1.03	0.00
18.60	1.25	0.27	1.03	0.00
18.80	1.25	0.27	1.03	0.00
19.00	1.25	0.27	1.03	0.00
19.20	1.25	0.27	1.03	0.00
19.40	1.25	0.27	1.03	0.00
19.60	1.25	0.27	1.03	0.00
19.80	1.25	0.27	1.03	0.00
20.00	1.25	0.27	1.03	0.00
20.20	1.25	0.27	1.03	0.00
20.40	1.25	0.27	1.03	0.00
20.60	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.27	1.03	0.00
21.00	1.25	0.27	1.03	0.00
21.20	1.25	0.27	1.03	0.00
21.40	1.25	0.27	1.03	0.00
21.60	1.25	0.27	1.03	0.00
21.80	1.25	0.27	1.03	0.00
22.00	1.25	0.27	1.03	0.00
22.20	1.25	0.27	1.03	0.00
22.40	1.25	0.27	1.03	0.00
22.60	1.25	0.27	1.03	0.00
22.80	1.25	0.27	1.03	0.00
23.00	1.25	0.27	1.03	0.00
23.20	1.25	0.27	1.03	0.00
23.40	1.25	0.27	1.03	0.00
23.60	1.25	0.27	1.03	0.00
23.80	1.25	0.27	1.03	0.00
24.00	1.25	0.27	1.03	0.00
24.20	1.25	0.27	1.03	0.00
24.40	1.25	0.27	1.03	0.00
24.60	1.25	0.27	1.03	0.00
24.80	1.25	0.27	1.03	0.00
25.00	1.25	0.27	1.03	0.00
25.20	1.25	0.27	1.03	0.00
25.40	1.25	0.27	1.03	0.00
25.60	1.25	0.27	1.03	0.00
25.80	1.25	0.27	1.03	0.00
26.00	1.25	0.27	1.03	0.00
26.20	1.25	0.27	1.03	0.00
26.40	1.25	0.27	1.03	0.00
26.60	1.25	0.27	1.03	0.00
26.80	1.25	0.27	1.03	0.00
27.00	1.25	0.27	1.03	0.00
27.20	1.25	0.27	1.03	0.00
27.40	1.25	0.27	1.03	0.00
27.60	1.25	0.27	1.03	0.00
27.80	1.25	0.27	1.03	0.00
28.00	1.25	0.27	1.03	0.00
28.20	1.25	0.27	1.03	0.00
28.40	1.25	0.27	1.03	0.00
28.60	1.25	0.27	1.03	0.00
28.80	1.25	0.27	1.03	0.00
29.00	1.25	0.27	1.03	0.00
29.20	1.25	0.27	1.03	0.00
29.40	1.25	0.27	1.03	0.00
29.60	1.25	0.27	1.03	0.00
29.80	1.25	0.27	1.03	0.00
30.00	1.25	0.27	1.03	0.00
30.20	1.25	0.27	1.03	0.00
30.40	1.25	0.27	1.03	0.00
30.60	1.25	0.27	1.03	0.00
30.80	1.25	0.27	1.03	0.00
31.00	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.27	1.03	0.00
31.40	1.25	0.27	1.03	0.00
31.60	1.25	0.27	1.03	0.00
31.80	1.25	0.27	1.03	0.00
32.00	1.25	0.27	1.03	0.00
32.20	1.25	0.27	1.03	0.00
32.40	1.25	0.27	1.03	0.00
32.60	1.25	0.27	1.03	0.00
32.80	1.25	0.27	1.03	0.00
33.00	1.25	0.27	1.03	0.00
33.20	1.25	0.27	1.03	0.00
33.40	1.25	0.27	1.03	0.00
33.60	1.25	0.27	1.03	0.00
33.80	1.25	0.27	1.03	0.00
34.00	1.25	0.27	1.03	0.00
34.20	1.25	0.27	1.03	0.00
34.40	1.25	0.27	1.03	0.00
34.60	1.25	0.27	1.03	0.00
34.80	1.25	0.27	1.03	0.00
35.00	1.25	0.27	1.03	0.00
35.20	1.25	0.27	1.03	0.00
35.40	1.25	0.27	1.03	0.00
35.60	1.25	0.27	1.03	0.00
35.80	1.25	0.27	1.03	0.00
36.00	1.25	0.27	1.03	0.00
36.20	1.25	0.27	1.03	0.00
36.40	1.25	0.27	1.03	0.00
36.60	1.25	0.27	1.03	0.00
36.80	1.25	0.27	1.03	0.00
37.00	1.25	0.27	1.03	0.00
37.20	1.25	0.27	1.03	0.00
37.40	1.25	0.27	1.03	0.00
37.60	1.25	0.27	1.03	0.00
37.80	1.25	0.27	1.03	0.00
38.00	1.25	0.27	1.03	0.00
38.20	1.25	0.27	1.03	0.00
38.40	1.25	0.27	1.03	0.00
38.60	1.25	0.27	1.03	0.00
38.80	1.25	0.27	1.03	0.00
39.00	1.25	0.27	1.03	0.00
39.20	1.25	0.27	1.03	0.00
39.40	1.25	0.27	1.03	0.00
39.60	1.25	0.27	1.03	0.00
39.80	1.25	0.27	1.03	0.00
40.00	1.25	0.27	1.03	0.00
40.20	1.25	0.27	1.03	0.00
40.40	1.25	0.27	1.03	0.00
40.60	1.25	0.27	1.03	0.00
40.80	1.25	0.27	1.03	0.00
41.00	1.25	0.27	1.03	0.00
41.20	1.25	0.27	1.03	0.00
41.40	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.27	1.03	0.00
41.80	1.25	0.27	1.03	0.00
42.00	1.25	0.27	1.03	0.00
42.20	1.25	0.27	1.03	0.00
42.40	1.25	0.27	1.03	0.00
42.60	1.25	0.27	1.03	0.00
42.80	1.25	0.27	1.03	0.00
43.00	1.25	0.27	1.03	0.00
43.20	1.25	0.27	1.03	0.00
43.40	1.25	0.27	1.03	0.00
43.60	1.25	0.27	1.03	0.00
43.80	1.25	0.27	1.03	0.00
44.00	1.25	0.27	1.03	0.00
44.20	1.25	0.27	1.03	0.00
44.40	1.25	0.27	1.03	0.00
44.60	1.25	0.27	1.03	0.00
44.80	1.25	0.27	1.03	0.00
45.00	1.25	0.27	1.03	0.00
45.20	1.25	0.27	1.03	0.00
45.40	1.25	0.27	1.03	0.00
45.60	1.25	0.27	1.03	0.00
45.80	1.25	0.27	1.03	0.00
46.00	1.25	0.27	1.03	0.00
46.20	1.25	0.27	1.03	0.00
46.40	1.25	0.27	1.03	0.00
46.60	1.25	0.27	1.03	0.00
46.80	1.25	0.27	1.03	0.00
47.00	1.25	0.27	1.03	0.00
47.20	1.25	0.27	1.03	0.00
47.40	1.25	0.27	1.03	0.00
47.60	1.25	0.27	1.03	0.00
47.80	1.25	0.27	1.03	0.00
48.00	1.25	0.27	1.03	0.00
48.20	1.25	0.27	1.03	0.00
48.40	1.25	0.27	1.03	0.00
48.60	1.25	0.27	1.03	0.00
48.80	1.25	0.27	1.03	0.00
49.00	1.25	0.27	1.03	0.00
49.20	1.25	0.27	1.03	0.00
49.40	1.25	0.27	1.03	0.00
49.60	1.25	0.27	1.03	0.00
49.80	1.25	0.27	1.03	0.00
50.00	1.25	0.27	1.03	0.00
50.20	1.25	0.27	1.03	0.00
50.40	1.25	0.27	1.03	0.00
50.60	1.25	0.27	1.03	0.00
50.80	1.25	0.27	1.03	0.00
51.00	1.25	0.27	1.03	0.00
51.20	1.25	0.27	1.03	0.00
51.40	1.25	0.27	1.03	0.00
51.60	1.25	0.27	1.03	0.00
51.80	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.27	1.03	0.00
52.20	1.25	0.27	1.03	0.00
52.40	1.25	0.27	1.03	0.00
52.60	1.25	0.27	1.03	0.00
52.80	1.25	0.27	1.03	0.00
53.00	1.25	0.27	1.03	0.00
53.20	1.25	0.27	1.03	0.00
53.40	1.25	0.27	1.03	0.00
53.60	1.25	0.27	1.03	0.00
53.80	1.25	0.27	1.03	0.00
54.00	1.25	0.27	1.03	0.00
54.20	1.25	0.27	1.03	0.00
54.40	1.25	0.27	1.03	0.00
54.60	1.25	0.27	1.03	0.00
54.80	1.25	0.27	1.03	0.00
55.00	1.25	0.27	1.03	0.00
55.20	1.25	0.27	1.03	0.00
55.40	1.25	0.27	1.03	0.00
55.60	1.25	0.27	1.03	0.00
55.80	1.25	0.27	1.03	0.00
56.00	1.25	0.27	1.03	0.00
56.20	1.25	0.27	1.03	0.00
56.40	1.25	0.27	1.03	0.00
56.60	1.25	0.27	1.03	0.00
56.80	1.25	0.27	1.03	0.00
57.00	1.25	0.27	1.03	0.00
57.20	1.25	0.27	1.03	0.00
57.40	1.25	0.27	1.03	0.00
57.60	1.25	0.27	1.03	0.00
57.80	1.25	0.27	1.03	0.00
58.00	1.25	0.27	1.03	0.00
58.20	1.25	0.27	1.03	0.00
58.40	1.25	0.27	1.03	0.00
58.60	1.25	0.27	1.03	0.00
58.80	1.25	0.27	1.03	0.00
59.00	1.25	0.27	1.03	0.00
59.20	1.25	0.27	1.03	0.00
59.40	1.25	0.27	1.03	0.00
59.60	1.25	0.27	1.03	0.00
59.80	1.25	0.27	1.03	0.00
60.00	1.25	0.27	1.03	0.00
60.20	1.25	0.27	1.03	0.00
60.40	1.25	0.27	1.03	0.00
60.60	1.25	0.27	1.03	0.00
60.80	1.25	0.27	1.03	0.00
61.00	1.25	0.27	1.03	0.00
61.20	1.25	0.27	1.03	0.00
61.40	1.25	0.27	1.03	0.00
61.60	1.25	0.27	1.03	0.00
61.80	1.25	0.27	1.03	0.00
62.00	1.25	0.27	1.03	0.00
62.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.27	1.03	0.00
62.60	1.25	0.27	1.03	0.00
62.80	1.25	0.27	1.03	0.00
63.00	1.25	0.27	1.03	0.00
63.20	1.25	0.27	1.03	0.00
63.40	1.25	0.27	1.03	0.00
63.60	1.25	0.27	1.03	0.00
63.80	1.25	0.27	1.03	0.00
64.00	1.25	0.27	1.03	0.00
64.20	1.25	0.27	1.03	0.00
64.40	1.25	0.27	1.03	0.00
64.60	1.25	0.27	1.03	0.00
64.80	1.25	0.27	1.03	0.00
65.00	1.25	0.27	1.03	0.00
65.20	1.25	0.27	1.03	0.00
65.40	1.25	0.27	1.03	0.00
65.60	1.25	0.27	1.03	0.00
65.80	1.25	0.27	1.03	0.00
66.00	1.25	0.27	1.03	0.00
66.20	1.25	0.27	1.03	0.00
66.40	1.25	0.27	1.03	0.00
66.60	1.25	0.27	1.03	0.00
66.80	1.25	0.27	1.03	0.00
67.00	1.25	0.27	1.03	0.00
67.20	1.25	0.27	1.03	0.00
67.40	1.25	0.27	1.03	0.00
67.60	1.25	0.27	1.03	0.00
67.80	1.25	0.27	1.03	0.00
68.00	1.25	0.27	1.03	0.00
68.20	1.25	0.27	1.03	0.00
68.40	1.25	0.27	1.03	0.00
68.60	1.25	0.27	1.03	0.00
68.80	1.25	0.27	1.03	0.00
69.00	1.25	0.27	1.03	0.00
69.20	1.25	0.27	1.03	0.00
69.40	1.25	0.27	1.03	0.00
69.60	1.25	0.27	1.03	0.00
69.80	1.25	0.27	1.03	0.00
70.00	1.25	0.27	1.03	0.00
70.20	1.25	0.27	1.03	0.00
70.40	1.25	0.27	1.03	0.00
70.60	1.25	0.27	1.03	0.00
70.80	1.25	0.27	1.03	0.00
71.00	1.25	0.27	1.03	0.00
71.20	1.25	0.27	1.03	0.00
71.40	1.25	0.27	1.03	0.00
71.60	1.25	0.27	1.03	0.00
71.80	1.25	0.27	1.03	0.00
72.00	1.25	0.27	1.03	0.00



**Summary for Subcatchment P-1B-3: Area 3**

Runoff = 0.28 cfs @ 1.09 hrs, Volume= 327 cf, Depth= 0.60"  
 Routed to Pond PV-3 : Pervious Pavers 3

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	917	98	Impervious
*	2,010	98	MVS - Impervious
*	2,400	85	MVS - Pervious Pavers
	1,265	80	>75% Grass cover, Good, HSG D
	6,592	90	Weighted Average
	3,665	83	55.60% Pervious Area
	2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

**Hydrograph for Subcatchment P-1B-3: Area 3**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.03
1.00	0.63	0.02	0.43	<b>0.20</b>
1.20	1.02	0.14	0.81	<b>0.11</b>
1.40	1.11	0.18	0.90	0.04
1.60	1.18	0.21	0.97	0.03
1.80	1.23	0.23	1.02	0.02
2.00	<b>1.25</b>	<b>0.24</b>	<b>1.03</b>	0.01
2.20	1.25	0.24	1.03	0.00
2.40	1.25	0.24	1.03	0.00
2.60	1.25	0.24	1.03	0.00
2.80	1.25	0.24	1.03	0.00
3.00	1.25	0.24	1.03	0.00
3.20	1.25	0.24	1.03	0.00
3.40	1.25	0.24	1.03	0.00
3.60	1.25	0.24	1.03	0.00
3.80	1.25	0.24	1.03	0.00
4.00	1.25	0.24	1.03	0.00
4.20	1.25	0.24	1.03	0.00
4.40	1.25	0.24	1.03	0.00
4.60	1.25	0.24	1.03	0.00
4.80	1.25	0.24	1.03	0.00
5.00	1.25	0.24	1.03	0.00
5.20	1.25	0.24	1.03	0.00
5.40	1.25	0.24	1.03	0.00
5.60	1.25	0.24	1.03	0.00
5.80	1.25	0.24	1.03	0.00
6.00	1.25	0.24	1.03	0.00
6.20	1.25	0.24	1.03	0.00
6.40	1.25	0.24	1.03	0.00
6.60	1.25	0.24	1.03	0.00
6.80	1.25	0.24	1.03	0.00
7.00	1.25	0.24	1.03	0.00
7.20	1.25	0.24	1.03	0.00
7.40	1.25	0.24	1.03	0.00
7.60	1.25	0.24	1.03	0.00
7.80	1.25	0.24	1.03	0.00
8.00	1.25	0.24	1.03	0.00
8.20	1.25	0.24	1.03	0.00
8.40	1.25	0.24	1.03	0.00
8.60	1.25	0.24	1.03	0.00
8.80	1.25	0.24	1.03	0.00
9.00	1.25	0.24	1.03	0.00
9.20	1.25	0.24	1.03	0.00
9.40	1.25	0.24	1.03	0.00
9.60	1.25	0.24	1.03	0.00
9.80	1.25	0.24	1.03	0.00
10.00	1.25	0.24	1.03	0.00
10.20	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

Prepared by Stonefield Engineering &amp; Design

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**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.24	1.03	0.00
10.60	1.25	0.24	1.03	0.00
10.80	1.25	0.24	1.03	0.00
11.00	1.25	0.24	1.03	0.00
11.20	1.25	0.24	1.03	0.00
11.40	1.25	0.24	1.03	0.00
11.60	1.25	0.24	1.03	0.00
11.80	1.25	0.24	1.03	0.00
12.00	1.25	0.24	1.03	0.00
12.20	1.25	0.24	1.03	0.00
12.40	1.25	0.24	1.03	0.00
12.60	1.25	0.24	1.03	0.00
12.80	1.25	0.24	1.03	0.00
13.00	1.25	0.24	1.03	0.00
13.20	1.25	0.24	1.03	0.00
13.40	1.25	0.24	1.03	0.00
13.60	1.25	0.24	1.03	0.00
13.80	1.25	0.24	1.03	0.00
14.00	1.25	0.24	1.03	0.00
14.20	1.25	0.24	1.03	0.00
14.40	1.25	0.24	1.03	0.00
14.60	1.25	0.24	1.03	0.00
14.80	1.25	0.24	1.03	0.00
15.00	1.25	0.24	1.03	0.00
15.20	1.25	0.24	1.03	0.00
15.40	1.25	0.24	1.03	0.00
15.60	1.25	0.24	1.03	0.00
15.80	1.25	0.24	1.03	0.00
16.00	1.25	0.24	1.03	0.00
16.20	1.25	0.24	1.03	0.00
16.40	1.25	0.24	1.03	0.00
16.60	1.25	0.24	1.03	0.00
16.80	1.25	0.24	1.03	0.00
17.00	1.25	0.24	1.03	0.00
17.20	1.25	0.24	1.03	0.00
17.40	1.25	0.24	1.03	0.00
17.60	1.25	0.24	1.03	0.00
17.80	1.25	0.24	1.03	0.00
18.00	1.25	0.24	1.03	0.00
18.20	1.25	0.24	1.03	0.00
18.40	1.25	0.24	1.03	0.00
18.60	1.25	0.24	1.03	0.00
18.80	1.25	0.24	1.03	0.00
19.00	1.25	0.24	1.03	0.00
19.20	1.25	0.24	1.03	0.00
19.40	1.25	0.24	1.03	0.00
19.60	1.25	0.24	1.03	0.00
19.80	1.25	0.24	1.03	0.00
20.00	1.25	0.24	1.03	0.00
20.20	1.25	0.24	1.03	0.00
20.40	1.25	0.24	1.03	0.00
20.60	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.24	1.03	0.00
21.00	1.25	0.24	1.03	0.00
21.20	1.25	0.24	1.03	0.00
21.40	1.25	0.24	1.03	0.00
21.60	1.25	0.24	1.03	0.00
21.80	1.25	0.24	1.03	0.00
22.00	1.25	0.24	1.03	0.00
22.20	1.25	0.24	1.03	0.00
22.40	1.25	0.24	1.03	0.00
22.60	1.25	0.24	1.03	0.00
22.80	1.25	0.24	1.03	0.00
23.00	1.25	0.24	1.03	0.00
23.20	1.25	0.24	1.03	0.00
23.40	1.25	0.24	1.03	0.00
23.60	1.25	0.24	1.03	0.00
23.80	1.25	0.24	1.03	0.00
24.00	1.25	0.24	1.03	0.00
24.20	1.25	0.24	1.03	0.00
24.40	1.25	0.24	1.03	0.00
24.60	1.25	0.24	1.03	0.00
24.80	1.25	0.24	1.03	0.00
25.00	1.25	0.24	1.03	0.00
25.20	1.25	0.24	1.03	0.00
25.40	1.25	0.24	1.03	0.00
25.60	1.25	0.24	1.03	0.00
25.80	1.25	0.24	1.03	0.00
26.00	1.25	0.24	1.03	0.00
26.20	1.25	0.24	1.03	0.00
26.40	1.25	0.24	1.03	0.00
26.60	1.25	0.24	1.03	0.00
26.80	1.25	0.24	1.03	0.00
27.00	1.25	0.24	1.03	0.00
27.20	1.25	0.24	1.03	0.00
27.40	1.25	0.24	1.03	0.00
27.60	1.25	0.24	1.03	0.00
27.80	1.25	0.24	1.03	0.00
28.00	1.25	0.24	1.03	0.00
28.20	1.25	0.24	1.03	0.00
28.40	1.25	0.24	1.03	0.00
28.60	1.25	0.24	1.03	0.00
28.80	1.25	0.24	1.03	0.00
29.00	1.25	0.24	1.03	0.00
29.20	1.25	0.24	1.03	0.00
29.40	1.25	0.24	1.03	0.00
29.60	1.25	0.24	1.03	0.00
29.80	1.25	0.24	1.03	0.00
30.00	1.25	0.24	1.03	0.00
30.20	1.25	0.24	1.03	0.00
30.40	1.25	0.24	1.03	0.00
30.60	1.25	0.24	1.03	0.00
30.80	1.25	0.24	1.03	0.00
31.00	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.24	1.03	0.00
31.40	1.25	0.24	1.03	0.00
31.60	1.25	0.24	1.03	0.00
31.80	1.25	0.24	1.03	0.00
32.00	1.25	0.24	1.03	0.00
32.20	1.25	0.24	1.03	0.00
32.40	1.25	0.24	1.03	0.00
32.60	1.25	0.24	1.03	0.00
32.80	1.25	0.24	1.03	0.00
33.00	1.25	0.24	1.03	0.00
33.20	1.25	0.24	1.03	0.00
33.40	1.25	0.24	1.03	0.00
33.60	1.25	0.24	1.03	0.00
33.80	1.25	0.24	1.03	0.00
34.00	1.25	0.24	1.03	0.00
34.20	1.25	0.24	1.03	0.00
34.40	1.25	0.24	1.03	0.00
34.60	1.25	0.24	1.03	0.00
34.80	1.25	0.24	1.03	0.00
35.00	1.25	0.24	1.03	0.00
35.20	1.25	0.24	1.03	0.00
35.40	1.25	0.24	1.03	0.00
35.60	1.25	0.24	1.03	0.00
35.80	1.25	0.24	1.03	0.00
36.00	1.25	0.24	1.03	0.00
36.20	1.25	0.24	1.03	0.00
36.40	1.25	0.24	1.03	0.00
36.60	1.25	0.24	1.03	0.00
36.80	1.25	0.24	1.03	0.00
37.00	1.25	0.24	1.03	0.00
37.20	1.25	0.24	1.03	0.00
37.40	1.25	0.24	1.03	0.00
37.60	1.25	0.24	1.03	0.00
37.80	1.25	0.24	1.03	0.00
38.00	1.25	0.24	1.03	0.00
38.20	1.25	0.24	1.03	0.00
38.40	1.25	0.24	1.03	0.00
38.60	1.25	0.24	1.03	0.00
38.80	1.25	0.24	1.03	0.00
39.00	1.25	0.24	1.03	0.00
39.20	1.25	0.24	1.03	0.00
39.40	1.25	0.24	1.03	0.00
39.60	1.25	0.24	1.03	0.00
39.80	1.25	0.24	1.03	0.00
40.00	1.25	0.24	1.03	0.00
40.20	1.25	0.24	1.03	0.00
40.40	1.25	0.24	1.03	0.00
40.60	1.25	0.24	1.03	0.00
40.80	1.25	0.24	1.03	0.00
41.00	1.25	0.24	1.03	0.00
41.20	1.25	0.24	1.03	0.00
41.40	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.24	1.03	0.00
41.80	1.25	0.24	1.03	0.00
42.00	1.25	0.24	1.03	0.00
42.20	1.25	0.24	1.03	0.00
42.40	1.25	0.24	1.03	0.00
42.60	1.25	0.24	1.03	0.00
42.80	1.25	0.24	1.03	0.00
43.00	1.25	0.24	1.03	0.00
43.20	1.25	0.24	1.03	0.00
43.40	1.25	0.24	1.03	0.00
43.60	1.25	0.24	1.03	0.00
43.80	1.25	0.24	1.03	0.00
44.00	1.25	0.24	1.03	0.00
44.20	1.25	0.24	1.03	0.00
44.40	1.25	0.24	1.03	0.00
44.60	1.25	0.24	1.03	0.00
44.80	1.25	0.24	1.03	0.00
45.00	1.25	0.24	1.03	0.00
45.20	1.25	0.24	1.03	0.00
45.40	1.25	0.24	1.03	0.00
45.60	1.25	0.24	1.03	0.00
45.80	1.25	0.24	1.03	0.00
46.00	1.25	0.24	1.03	0.00
46.20	1.25	0.24	1.03	0.00
46.40	1.25	0.24	1.03	0.00
46.60	1.25	0.24	1.03	0.00
46.80	1.25	0.24	1.03	0.00
47.00	1.25	0.24	1.03	0.00
47.20	1.25	0.24	1.03	0.00
47.40	1.25	0.24	1.03	0.00
47.60	1.25	0.24	1.03	0.00
47.80	1.25	0.24	1.03	0.00
48.00	1.25	0.24	1.03	0.00
48.20	1.25	0.24	1.03	0.00
48.40	1.25	0.24	1.03	0.00
48.60	1.25	0.24	1.03	0.00
48.80	1.25	0.24	1.03	0.00
49.00	1.25	0.24	1.03	0.00
49.20	1.25	0.24	1.03	0.00
49.40	1.25	0.24	1.03	0.00
49.60	1.25	0.24	1.03	0.00
49.80	1.25	0.24	1.03	0.00
50.00	1.25	0.24	1.03	0.00
50.20	1.25	0.24	1.03	0.00
50.40	1.25	0.24	1.03	0.00
50.60	1.25	0.24	1.03	0.00
50.80	1.25	0.24	1.03	0.00
51.00	1.25	0.24	1.03	0.00
51.20	1.25	0.24	1.03	0.00
51.40	1.25	0.24	1.03	0.00
51.60	1.25	0.24	1.03	0.00
51.80	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.24	1.03	0.00
52.20	1.25	0.24	1.03	0.00
52.40	1.25	0.24	1.03	0.00
52.60	1.25	0.24	1.03	0.00
52.80	1.25	0.24	1.03	0.00
53.00	1.25	0.24	1.03	0.00
53.20	1.25	0.24	1.03	0.00
53.40	1.25	0.24	1.03	0.00
53.60	1.25	0.24	1.03	0.00
53.80	1.25	0.24	1.03	0.00
54.00	1.25	0.24	1.03	0.00
54.20	1.25	0.24	1.03	0.00
54.40	1.25	0.24	1.03	0.00
54.60	1.25	0.24	1.03	0.00
54.80	1.25	0.24	1.03	0.00
55.00	1.25	0.24	1.03	0.00
55.20	1.25	0.24	1.03	0.00
55.40	1.25	0.24	1.03	0.00
55.60	1.25	0.24	1.03	0.00
55.80	1.25	0.24	1.03	0.00
56.00	1.25	0.24	1.03	0.00
56.20	1.25	0.24	1.03	0.00
56.40	1.25	0.24	1.03	0.00
56.60	1.25	0.24	1.03	0.00
56.80	1.25	0.24	1.03	0.00
57.00	1.25	0.24	1.03	0.00
57.20	1.25	0.24	1.03	0.00
57.40	1.25	0.24	1.03	0.00
57.60	1.25	0.24	1.03	0.00
57.80	1.25	0.24	1.03	0.00
58.00	1.25	0.24	1.03	0.00
58.20	1.25	0.24	1.03	0.00
58.40	1.25	0.24	1.03	0.00
58.60	1.25	0.24	1.03	0.00
58.80	1.25	0.24	1.03	0.00
59.00	1.25	0.24	1.03	0.00
59.20	1.25	0.24	1.03	0.00
59.40	1.25	0.24	1.03	0.00
59.60	1.25	0.24	1.03	0.00
59.80	1.25	0.24	1.03	0.00
60.00	1.25	0.24	1.03	0.00
60.20	1.25	0.24	1.03	0.00
60.40	1.25	0.24	1.03	0.00
60.60	1.25	0.24	1.03	0.00
60.80	1.25	0.24	1.03	0.00
61.00	1.25	0.24	1.03	0.00
61.20	1.25	0.24	1.03	0.00
61.40	1.25	0.24	1.03	0.00
61.60	1.25	0.24	1.03	0.00
61.80	1.25	0.24	1.03	0.00
62.00	1.25	0.24	1.03	0.00
62.20	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.24	1.03	0.00
62.60	1.25	0.24	1.03	0.00
62.80	1.25	0.24	1.03	0.00
63.00	1.25	0.24	1.03	0.00
63.20	1.25	0.24	1.03	0.00
63.40	1.25	0.24	1.03	0.00
63.60	1.25	0.24	1.03	0.00
63.80	1.25	0.24	1.03	0.00
64.00	1.25	0.24	1.03	0.00
64.20	1.25	0.24	1.03	0.00
64.40	1.25	0.24	1.03	0.00
64.60	1.25	0.24	1.03	0.00
64.80	1.25	0.24	1.03	0.00
65.00	1.25	0.24	1.03	0.00
65.20	1.25	0.24	1.03	0.00
65.40	1.25	0.24	1.03	0.00
65.60	1.25	0.24	1.03	0.00
65.80	1.25	0.24	1.03	0.00
66.00	1.25	0.24	1.03	0.00
66.20	1.25	0.24	1.03	0.00
66.40	1.25	0.24	1.03	0.00
66.60	1.25	0.24	1.03	0.00
66.80	1.25	0.24	1.03	0.00
67.00	1.25	0.24	1.03	0.00
67.20	1.25	0.24	1.03	0.00
67.40	1.25	0.24	1.03	0.00
67.60	1.25	0.24	1.03	0.00
67.80	1.25	0.24	1.03	0.00
68.00	1.25	0.24	1.03	0.00
68.20	1.25	0.24	1.03	0.00
68.40	1.25	0.24	1.03	0.00
68.60	1.25	0.24	1.03	0.00
68.80	1.25	0.24	1.03	0.00
69.00	1.25	0.24	1.03	0.00
69.20	1.25	0.24	1.03	0.00
69.40	1.25	0.24	1.03	0.00
69.60	1.25	0.24	1.03	0.00
69.80	1.25	0.24	1.03	0.00
70.00	1.25	0.24	1.03	0.00
70.20	1.25	0.24	1.03	0.00
70.40	1.25	0.24	1.03	0.00
70.60	1.25	0.24	1.03	0.00
70.80	1.25	0.24	1.03	0.00
71.00	1.25	0.24	1.03	0.00
71.20	1.25	0.24	1.03	0.00
71.40	1.25	0.24	1.03	0.00
71.60	1.25	0.24	1.03	0.00
71.80	1.25	0.24	1.03	0.00
72.00	1.25	0.24	1.03	0.00



**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 0.24 cfs @ 1.10 hrs, Volume= 281 cf, Depth= 0.61"  
 Routed to Pond PV-4 : Pervious Pavers 4

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b>
					Paved Kv= 20.3 fps
3.8	24	Total			

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-4: Area 4**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.02
1.00	0.63	0.03	0.43	<b>0.16</b>
1.20	1.02	0.16	0.81	<b>0.10</b>
1.40	1.11	0.20	0.90	0.04
1.60	1.18	0.24	0.97	0.03
1.80	1.23	0.26	1.02	0.02
2.00	<b>1.25</b>	<b>0.27</b>	<b>1.03</b>	0.01
2.20	1.25	0.27	1.03	0.00
2.40	1.25	0.27	1.03	0.00
2.60	1.25	0.27	1.03	0.00
2.80	1.25	0.27	1.03	0.00
3.00	1.25	0.27	1.03	0.00
3.20	1.25	0.27	1.03	0.00
3.40	1.25	0.27	1.03	0.00
3.60	1.25	0.27	1.03	0.00
3.80	1.25	0.27	1.03	0.00
4.00	1.25	0.27	1.03	0.00
4.20	1.25	0.27	1.03	0.00
4.40	1.25	0.27	1.03	0.00
4.60	1.25	0.27	1.03	0.00
4.80	1.25	0.27	1.03	0.00
5.00	1.25	0.27	1.03	0.00
5.20	1.25	0.27	1.03	0.00
5.40	1.25	0.27	1.03	0.00
5.60	1.25	0.27	1.03	0.00
5.80	1.25	0.27	1.03	0.00
6.00	1.25	0.27	1.03	0.00
6.20	1.25	0.27	1.03	0.00
6.40	1.25	0.27	1.03	0.00
6.60	1.25	0.27	1.03	0.00
6.80	1.25	0.27	1.03	0.00
7.00	1.25	0.27	1.03	0.00
7.20	1.25	0.27	1.03	0.00
7.40	1.25	0.27	1.03	0.00
7.60	1.25	0.27	1.03	0.00
7.80	1.25	0.27	1.03	0.00
8.00	1.25	0.27	1.03	0.00
8.20	1.25	0.27	1.03	0.00
8.40	1.25	0.27	1.03	0.00
8.60	1.25	0.27	1.03	0.00
8.80	1.25	0.27	1.03	0.00
9.00	1.25	0.27	1.03	0.00
9.20	1.25	0.27	1.03	0.00
9.40	1.25	0.27	1.03	0.00
9.60	1.25	0.27	1.03	0.00
9.80	1.25	0.27	1.03	0.00
10.00	1.25	0.27	1.03	0.00
10.20	1.25	0.27	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.27	1.03	0.00
10.60	1.25	0.27	1.03	0.00
10.80	1.25	0.27	1.03	0.00
11.00	1.25	0.27	1.03	0.00
11.20	1.25	0.27	1.03	0.00
11.40	1.25	0.27	1.03	0.00
11.60	1.25	0.27	1.03	0.00
11.80	1.25	0.27	1.03	0.00
12.00	1.25	0.27	1.03	0.00
12.20	1.25	0.27	1.03	0.00
12.40	1.25	0.27	1.03	0.00
12.60	1.25	0.27	1.03	0.00
12.80	1.25	0.27	1.03	0.00
13.00	1.25	0.27	1.03	0.00
13.20	1.25	0.27	1.03	0.00
13.40	1.25	0.27	1.03	0.00
13.60	1.25	0.27	1.03	0.00
13.80	1.25	0.27	1.03	0.00
14.00	1.25	0.27	1.03	0.00
14.20	1.25	0.27	1.03	0.00
14.40	1.25	0.27	1.03	0.00
14.60	1.25	0.27	1.03	0.00
14.80	1.25	0.27	1.03	0.00
15.00	1.25	0.27	1.03	0.00
15.20	1.25	0.27	1.03	0.00
15.40	1.25	0.27	1.03	0.00
15.60	1.25	0.27	1.03	0.00
15.80	1.25	0.27	1.03	0.00
16.00	1.25	0.27	1.03	0.00
16.20	1.25	0.27	1.03	0.00
16.40	1.25	0.27	1.03	0.00
16.60	1.25	0.27	1.03	0.00
16.80	1.25	0.27	1.03	0.00
17.00	1.25	0.27	1.03	0.00
17.20	1.25	0.27	1.03	0.00
17.40	1.25	0.27	1.03	0.00
17.60	1.25	0.27	1.03	0.00
17.80	1.25	0.27	1.03	0.00
18.00	1.25	0.27	1.03	0.00
18.20	1.25	0.27	1.03	0.00
18.40	1.25	0.27	1.03	0.00
18.60	1.25	0.27	1.03	0.00
18.80	1.25	0.27	1.03	0.00
19.00	1.25	0.27	1.03	0.00
19.20	1.25	0.27	1.03	0.00
19.40	1.25	0.27	1.03	0.00
19.60	1.25	0.27	1.03	0.00
19.80	1.25	0.27	1.03	0.00
20.00	1.25	0.27	1.03	0.00
20.20	1.25	0.27	1.03	0.00
20.40	1.25	0.27	1.03	0.00
20.60	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.27	1.03	0.00
21.00	1.25	0.27	1.03	0.00
21.20	1.25	0.27	1.03	0.00
21.40	1.25	0.27	1.03	0.00
21.60	1.25	0.27	1.03	0.00
21.80	1.25	0.27	1.03	0.00
22.00	1.25	0.27	1.03	0.00
22.20	1.25	0.27	1.03	0.00
22.40	1.25	0.27	1.03	0.00
22.60	1.25	0.27	1.03	0.00
22.80	1.25	0.27	1.03	0.00
23.00	1.25	0.27	1.03	0.00
23.20	1.25	0.27	1.03	0.00
23.40	1.25	0.27	1.03	0.00
23.60	1.25	0.27	1.03	0.00
23.80	1.25	0.27	1.03	0.00
24.00	1.25	0.27	1.03	0.00
24.20	1.25	0.27	1.03	0.00
24.40	1.25	0.27	1.03	0.00
24.60	1.25	0.27	1.03	0.00
24.80	1.25	0.27	1.03	0.00
25.00	1.25	0.27	1.03	0.00
25.20	1.25	0.27	1.03	0.00
25.40	1.25	0.27	1.03	0.00
25.60	1.25	0.27	1.03	0.00
25.80	1.25	0.27	1.03	0.00
26.00	1.25	0.27	1.03	0.00
26.20	1.25	0.27	1.03	0.00
26.40	1.25	0.27	1.03	0.00
26.60	1.25	0.27	1.03	0.00
26.80	1.25	0.27	1.03	0.00
27.00	1.25	0.27	1.03	0.00
27.20	1.25	0.27	1.03	0.00
27.40	1.25	0.27	1.03	0.00
27.60	1.25	0.27	1.03	0.00
27.80	1.25	0.27	1.03	0.00
28.00	1.25	0.27	1.03	0.00
28.20	1.25	0.27	1.03	0.00
28.40	1.25	0.27	1.03	0.00
28.60	1.25	0.27	1.03	0.00
28.80	1.25	0.27	1.03	0.00
29.00	1.25	0.27	1.03	0.00
29.20	1.25	0.27	1.03	0.00
29.40	1.25	0.27	1.03	0.00
29.60	1.25	0.27	1.03	0.00
29.80	1.25	0.27	1.03	0.00
30.00	1.25	0.27	1.03	0.00
30.20	1.25	0.27	1.03	0.00
30.40	1.25	0.27	1.03	0.00
30.60	1.25	0.27	1.03	0.00
30.80	1.25	0.27	1.03	0.00
31.00	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.27	1.03	0.00
31.40	1.25	0.27	1.03	0.00
31.60	1.25	0.27	1.03	0.00
31.80	1.25	0.27	1.03	0.00
32.00	1.25	0.27	1.03	0.00
32.20	1.25	0.27	1.03	0.00
32.40	1.25	0.27	1.03	0.00
32.60	1.25	0.27	1.03	0.00
32.80	1.25	0.27	1.03	0.00
33.00	1.25	0.27	1.03	0.00
33.20	1.25	0.27	1.03	0.00
33.40	1.25	0.27	1.03	0.00
33.60	1.25	0.27	1.03	0.00
33.80	1.25	0.27	1.03	0.00
34.00	1.25	0.27	1.03	0.00
34.20	1.25	0.27	1.03	0.00
34.40	1.25	0.27	1.03	0.00
34.60	1.25	0.27	1.03	0.00
34.80	1.25	0.27	1.03	0.00
35.00	1.25	0.27	1.03	0.00
35.20	1.25	0.27	1.03	0.00
35.40	1.25	0.27	1.03	0.00
35.60	1.25	0.27	1.03	0.00
35.80	1.25	0.27	1.03	0.00
36.00	1.25	0.27	1.03	0.00
36.20	1.25	0.27	1.03	0.00
36.40	1.25	0.27	1.03	0.00
36.60	1.25	0.27	1.03	0.00
36.80	1.25	0.27	1.03	0.00
37.00	1.25	0.27	1.03	0.00
37.20	1.25	0.27	1.03	0.00
37.40	1.25	0.27	1.03	0.00
37.60	1.25	0.27	1.03	0.00
37.80	1.25	0.27	1.03	0.00
38.00	1.25	0.27	1.03	0.00
38.20	1.25	0.27	1.03	0.00
38.40	1.25	0.27	1.03	0.00
38.60	1.25	0.27	1.03	0.00
38.80	1.25	0.27	1.03	0.00
39.00	1.25	0.27	1.03	0.00
39.20	1.25	0.27	1.03	0.00
39.40	1.25	0.27	1.03	0.00
39.60	1.25	0.27	1.03	0.00
39.80	1.25	0.27	1.03	0.00
40.00	1.25	0.27	1.03	0.00
40.20	1.25	0.27	1.03	0.00
40.40	1.25	0.27	1.03	0.00
40.60	1.25	0.27	1.03	0.00
40.80	1.25	0.27	1.03	0.00
41.00	1.25	0.27	1.03	0.00
41.20	1.25	0.27	1.03	0.00
41.40	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.27	1.03	0.00
41.80	1.25	0.27	1.03	0.00
42.00	1.25	0.27	1.03	0.00
42.20	1.25	0.27	1.03	0.00
42.40	1.25	0.27	1.03	0.00
42.60	1.25	0.27	1.03	0.00
42.80	1.25	0.27	1.03	0.00
43.00	1.25	0.27	1.03	0.00
43.20	1.25	0.27	1.03	0.00
43.40	1.25	0.27	1.03	0.00
43.60	1.25	0.27	1.03	0.00
43.80	1.25	0.27	1.03	0.00
44.00	1.25	0.27	1.03	0.00
44.20	1.25	0.27	1.03	0.00
44.40	1.25	0.27	1.03	0.00
44.60	1.25	0.27	1.03	0.00
44.80	1.25	0.27	1.03	0.00
45.00	1.25	0.27	1.03	0.00
45.20	1.25	0.27	1.03	0.00
45.40	1.25	0.27	1.03	0.00
45.60	1.25	0.27	1.03	0.00
45.80	1.25	0.27	1.03	0.00
46.00	1.25	0.27	1.03	0.00
46.20	1.25	0.27	1.03	0.00
46.40	1.25	0.27	1.03	0.00
46.60	1.25	0.27	1.03	0.00
46.80	1.25	0.27	1.03	0.00
47.00	1.25	0.27	1.03	0.00
47.20	1.25	0.27	1.03	0.00
47.40	1.25	0.27	1.03	0.00
47.60	1.25	0.27	1.03	0.00
47.80	1.25	0.27	1.03	0.00
48.00	1.25	0.27	1.03	0.00
48.20	1.25	0.27	1.03	0.00
48.40	1.25	0.27	1.03	0.00
48.60	1.25	0.27	1.03	0.00
48.80	1.25	0.27	1.03	0.00
49.00	1.25	0.27	1.03	0.00
49.20	1.25	0.27	1.03	0.00
49.40	1.25	0.27	1.03	0.00
49.60	1.25	0.27	1.03	0.00
49.80	1.25	0.27	1.03	0.00
50.00	1.25	0.27	1.03	0.00
50.20	1.25	0.27	1.03	0.00
50.40	1.25	0.27	1.03	0.00
50.60	1.25	0.27	1.03	0.00
50.80	1.25	0.27	1.03	0.00
51.00	1.25	0.27	1.03	0.00
51.20	1.25	0.27	1.03	0.00
51.40	1.25	0.27	1.03	0.00
51.60	1.25	0.27	1.03	0.00
51.80	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.27	1.03	0.00
52.20	1.25	0.27	1.03	0.00
52.40	1.25	0.27	1.03	0.00
52.60	1.25	0.27	1.03	0.00
52.80	1.25	0.27	1.03	0.00
53.00	1.25	0.27	1.03	0.00
53.20	1.25	0.27	1.03	0.00
53.40	1.25	0.27	1.03	0.00
53.60	1.25	0.27	1.03	0.00
53.80	1.25	0.27	1.03	0.00
54.00	1.25	0.27	1.03	0.00
54.20	1.25	0.27	1.03	0.00
54.40	1.25	0.27	1.03	0.00
54.60	1.25	0.27	1.03	0.00
54.80	1.25	0.27	1.03	0.00
55.00	1.25	0.27	1.03	0.00
55.20	1.25	0.27	1.03	0.00
55.40	1.25	0.27	1.03	0.00
55.60	1.25	0.27	1.03	0.00
55.80	1.25	0.27	1.03	0.00
56.00	1.25	0.27	1.03	0.00
56.20	1.25	0.27	1.03	0.00
56.40	1.25	0.27	1.03	0.00
56.60	1.25	0.27	1.03	0.00
56.80	1.25	0.27	1.03	0.00
57.00	1.25	0.27	1.03	0.00
57.20	1.25	0.27	1.03	0.00
57.40	1.25	0.27	1.03	0.00
57.60	1.25	0.27	1.03	0.00
57.80	1.25	0.27	1.03	0.00
58.00	1.25	0.27	1.03	0.00
58.20	1.25	0.27	1.03	0.00
58.40	1.25	0.27	1.03	0.00
58.60	1.25	0.27	1.03	0.00
58.80	1.25	0.27	1.03	0.00
59.00	1.25	0.27	1.03	0.00
59.20	1.25	0.27	1.03	0.00
59.40	1.25	0.27	1.03	0.00
59.60	1.25	0.27	1.03	0.00
59.80	1.25	0.27	1.03	0.00
60.00	1.25	0.27	1.03	0.00
60.20	1.25	0.27	1.03	0.00
60.40	1.25	0.27	1.03	0.00
60.60	1.25	0.27	1.03	0.00
60.80	1.25	0.27	1.03	0.00
61.00	1.25	0.27	1.03	0.00
61.20	1.25	0.27	1.03	0.00
61.40	1.25	0.27	1.03	0.00
61.60	1.25	0.27	1.03	0.00
61.80	1.25	0.27	1.03	0.00
62.00	1.25	0.27	1.03	0.00
62.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.27	1.03	0.00
62.60	1.25	0.27	1.03	0.00
62.80	1.25	0.27	1.03	0.00
63.00	1.25	0.27	1.03	0.00
63.20	1.25	0.27	1.03	0.00
63.40	1.25	0.27	1.03	0.00
63.60	1.25	0.27	1.03	0.00
63.80	1.25	0.27	1.03	0.00
64.00	1.25	0.27	1.03	0.00
64.20	1.25	0.27	1.03	0.00
64.40	1.25	0.27	1.03	0.00
64.60	1.25	0.27	1.03	0.00
64.80	1.25	0.27	1.03	0.00
65.00	1.25	0.27	1.03	0.00
65.20	1.25	0.27	1.03	0.00
65.40	1.25	0.27	1.03	0.00
65.60	1.25	0.27	1.03	0.00
65.80	1.25	0.27	1.03	0.00
66.00	1.25	0.27	1.03	0.00
66.20	1.25	0.27	1.03	0.00
66.40	1.25	0.27	1.03	0.00
66.60	1.25	0.27	1.03	0.00
66.80	1.25	0.27	1.03	0.00
67.00	1.25	0.27	1.03	0.00
67.20	1.25	0.27	1.03	0.00
67.40	1.25	0.27	1.03	0.00
67.60	1.25	0.27	1.03	0.00
67.80	1.25	0.27	1.03	0.00
68.00	1.25	0.27	1.03	0.00
68.20	1.25	0.27	1.03	0.00
68.40	1.25	0.27	1.03	0.00
68.60	1.25	0.27	1.03	0.00
68.80	1.25	0.27	1.03	0.00
69.00	1.25	0.27	1.03	0.00
69.20	1.25	0.27	1.03	0.00
69.40	1.25	0.27	1.03	0.00
69.60	1.25	0.27	1.03	0.00
69.80	1.25	0.27	1.03	0.00
70.00	1.25	0.27	1.03	0.00
70.20	1.25	0.27	1.03	0.00
70.40	1.25	0.27	1.03	0.00
70.60	1.25	0.27	1.03	0.00
70.80	1.25	0.27	1.03	0.00
71.00	1.25	0.27	1.03	0.00
71.20	1.25	0.27	1.03	0.00
71.40	1.25	0.27	1.03	0.00
71.60	1.25	0.27	1.03	0.00
71.80	1.25	0.27	1.03	0.00
72.00	1.25	0.27	1.03	0.00



**Summary for Subcatchment P-1B-5: Area 5**

Runoff = 0.24 cfs @ 1.10 hrs, Volume= 274 cf, Depth= 0.52"  
 Routed to Pond PV-5 : Pervious Pavers 5

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

**Hydrograph for Subcatchment P-1B-5: Area 5**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.02
1.00	0.63	0.02	0.43	<b>0.16</b>
1.20	1.02	0.14	0.81	<b>0.09</b>
1.40	1.11	0.18	0.90	0.04
1.60	1.18	0.21	0.97	0.03
1.80	1.23	0.23	1.02	0.02
2.00	<b>1.25</b>	<b>0.24</b>	<b>1.03</b>	0.01
2.20	1.25	0.24	1.03	0.00
2.40	1.25	0.24	1.03	0.00
2.60	1.25	0.24	1.03	0.00
2.80	1.25	0.24	1.03	0.00
3.00	1.25	0.24	1.03	0.00
3.20	1.25	0.24	1.03	0.00
3.40	1.25	0.24	1.03	0.00
3.60	1.25	0.24	1.03	0.00
3.80	1.25	0.24	1.03	0.00
4.00	1.25	0.24	1.03	0.00
4.20	1.25	0.24	1.03	0.00
4.40	1.25	0.24	1.03	0.00
4.60	1.25	0.24	1.03	0.00
4.80	1.25	0.24	1.03	0.00
5.00	1.25	0.24	1.03	0.00
5.20	1.25	0.24	1.03	0.00
5.40	1.25	0.24	1.03	0.00
5.60	1.25	0.24	1.03	0.00
5.80	1.25	0.24	1.03	0.00
6.00	1.25	0.24	1.03	0.00
6.20	1.25	0.24	1.03	0.00
6.40	1.25	0.24	1.03	0.00
6.60	1.25	0.24	1.03	0.00
6.80	1.25	0.24	1.03	0.00
7.00	1.25	0.24	1.03	0.00
7.20	1.25	0.24	1.03	0.00
7.40	1.25	0.24	1.03	0.00
7.60	1.25	0.24	1.03	0.00
7.80	1.25	0.24	1.03	0.00
8.00	1.25	0.24	1.03	0.00
8.20	1.25	0.24	1.03	0.00
8.40	1.25	0.24	1.03	0.00
8.60	1.25	0.24	1.03	0.00
8.80	1.25	0.24	1.03	0.00
9.00	1.25	0.24	1.03	0.00
9.20	1.25	0.24	1.03	0.00
9.40	1.25	0.24	1.03	0.00
9.60	1.25	0.24	1.03	0.00
9.80	1.25	0.24	1.03	0.00
10.00	1.25	0.24	1.03	0.00
10.20	1.25	0.24	1.03	0.00

Hydrograph for Subcatchment P-1B-5: Area 5 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.24	1.03	0.00
10.60	1.25	0.24	1.03	0.00
10.80	1.25	0.24	1.03	0.00
11.00	1.25	0.24	1.03	0.00
11.20	1.25	0.24	1.03	0.00
11.40	1.25	0.24	1.03	0.00
11.60	1.25	0.24	1.03	0.00
11.80	1.25	0.24	1.03	0.00
12.00	1.25	0.24	1.03	0.00
12.20	1.25	0.24	1.03	0.00
12.40	1.25	0.24	1.03	0.00
12.60	1.25	0.24	1.03	0.00
12.80	1.25	0.24	1.03	0.00
13.00	1.25	0.24	1.03	0.00
13.20	1.25	0.24	1.03	0.00
13.40	1.25	0.24	1.03	0.00
13.60	1.25	0.24	1.03	0.00
13.80	1.25	0.24	1.03	0.00
14.00	1.25	0.24	1.03	0.00
14.20	1.25	0.24	1.03	0.00
14.40	1.25	0.24	1.03	0.00
14.60	1.25	0.24	1.03	0.00
14.80	1.25	0.24	1.03	0.00
15.00	1.25	0.24	1.03	0.00
15.20	1.25	0.24	1.03	0.00
15.40	1.25	0.24	1.03	0.00
15.60	1.25	0.24	1.03	0.00
15.80	1.25	0.24	1.03	0.00
16.00	1.25	0.24	1.03	0.00
16.20	1.25	0.24	1.03	0.00
16.40	1.25	0.24	1.03	0.00
16.60	1.25	0.24	1.03	0.00
16.80	1.25	0.24	1.03	0.00
17.00	1.25	0.24	1.03	0.00
17.20	1.25	0.24	1.03	0.00
17.40	1.25	0.24	1.03	0.00
17.60	1.25	0.24	1.03	0.00
17.80	1.25	0.24	1.03	0.00
18.00	1.25	0.24	1.03	0.00
18.20	1.25	0.24	1.03	0.00
18.40	1.25	0.24	1.03	0.00
18.60	1.25	0.24	1.03	0.00
18.80	1.25	0.24	1.03	0.00
19.00	1.25	0.24	1.03	0.00
19.20	1.25	0.24	1.03	0.00
19.40	1.25	0.24	1.03	0.00
19.60	1.25	0.24	1.03	0.00
19.80	1.25	0.24	1.03	0.00
20.00	1.25	0.24	1.03	0.00
20.20	1.25	0.24	1.03	0.00
20.40	1.25	0.24	1.03	0.00
20.60	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.24	1.03	0.00
21.00	1.25	0.24	1.03	0.00
21.20	1.25	0.24	1.03	0.00
21.40	1.25	0.24	1.03	0.00
21.60	1.25	0.24	1.03	0.00
21.80	1.25	0.24	1.03	0.00
22.00	1.25	0.24	1.03	0.00
22.20	1.25	0.24	1.03	0.00
22.40	1.25	0.24	1.03	0.00
22.60	1.25	0.24	1.03	0.00
22.80	1.25	0.24	1.03	0.00
23.00	1.25	0.24	1.03	0.00
23.20	1.25	0.24	1.03	0.00
23.40	1.25	0.24	1.03	0.00
23.60	1.25	0.24	1.03	0.00
23.80	1.25	0.24	1.03	0.00
24.00	1.25	0.24	1.03	0.00
24.20	1.25	0.24	1.03	0.00
24.40	1.25	0.24	1.03	0.00
24.60	1.25	0.24	1.03	0.00
24.80	1.25	0.24	1.03	0.00
25.00	1.25	0.24	1.03	0.00
25.20	1.25	0.24	1.03	0.00
25.40	1.25	0.24	1.03	0.00
25.60	1.25	0.24	1.03	0.00
25.80	1.25	0.24	1.03	0.00
26.00	1.25	0.24	1.03	0.00
26.20	1.25	0.24	1.03	0.00
26.40	1.25	0.24	1.03	0.00
26.60	1.25	0.24	1.03	0.00
26.80	1.25	0.24	1.03	0.00
27.00	1.25	0.24	1.03	0.00
27.20	1.25	0.24	1.03	0.00
27.40	1.25	0.24	1.03	0.00
27.60	1.25	0.24	1.03	0.00
27.80	1.25	0.24	1.03	0.00
28.00	1.25	0.24	1.03	0.00
28.20	1.25	0.24	1.03	0.00
28.40	1.25	0.24	1.03	0.00
28.60	1.25	0.24	1.03	0.00
28.80	1.25	0.24	1.03	0.00
29.00	1.25	0.24	1.03	0.00
29.20	1.25	0.24	1.03	0.00
29.40	1.25	0.24	1.03	0.00
29.60	1.25	0.24	1.03	0.00
29.80	1.25	0.24	1.03	0.00
30.00	1.25	0.24	1.03	0.00
30.20	1.25	0.24	1.03	0.00
30.40	1.25	0.24	1.03	0.00
30.60	1.25	0.24	1.03	0.00
30.80	1.25	0.24	1.03	0.00
31.00	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.24	1.03	0.00
31.40	1.25	0.24	1.03	0.00
31.60	1.25	0.24	1.03	0.00
31.80	1.25	0.24	1.03	0.00
32.00	1.25	0.24	1.03	0.00
32.20	1.25	0.24	1.03	0.00
32.40	1.25	0.24	1.03	0.00
32.60	1.25	0.24	1.03	0.00
32.80	1.25	0.24	1.03	0.00
33.00	1.25	0.24	1.03	0.00
33.20	1.25	0.24	1.03	0.00
33.40	1.25	0.24	1.03	0.00
33.60	1.25	0.24	1.03	0.00
33.80	1.25	0.24	1.03	0.00
34.00	1.25	0.24	1.03	0.00
34.20	1.25	0.24	1.03	0.00
34.40	1.25	0.24	1.03	0.00
34.60	1.25	0.24	1.03	0.00
34.80	1.25	0.24	1.03	0.00
35.00	1.25	0.24	1.03	0.00
35.20	1.25	0.24	1.03	0.00
35.40	1.25	0.24	1.03	0.00
35.60	1.25	0.24	1.03	0.00
35.80	1.25	0.24	1.03	0.00
36.00	1.25	0.24	1.03	0.00
36.20	1.25	0.24	1.03	0.00
36.40	1.25	0.24	1.03	0.00
36.60	1.25	0.24	1.03	0.00
36.80	1.25	0.24	1.03	0.00
37.00	1.25	0.24	1.03	0.00
37.20	1.25	0.24	1.03	0.00
37.40	1.25	0.24	1.03	0.00
37.60	1.25	0.24	1.03	0.00
37.80	1.25	0.24	1.03	0.00
38.00	1.25	0.24	1.03	0.00
38.20	1.25	0.24	1.03	0.00
38.40	1.25	0.24	1.03	0.00
38.60	1.25	0.24	1.03	0.00
38.80	1.25	0.24	1.03	0.00
39.00	1.25	0.24	1.03	0.00
39.20	1.25	0.24	1.03	0.00
39.40	1.25	0.24	1.03	0.00
39.60	1.25	0.24	1.03	0.00
39.80	1.25	0.24	1.03	0.00
40.00	1.25	0.24	1.03	0.00
40.20	1.25	0.24	1.03	0.00
40.40	1.25	0.24	1.03	0.00
40.60	1.25	0.24	1.03	0.00
40.80	1.25	0.24	1.03	0.00
41.00	1.25	0.24	1.03	0.00
41.20	1.25	0.24	1.03	0.00
41.40	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.24	1.03	0.00
41.80	1.25	0.24	1.03	0.00
42.00	1.25	0.24	1.03	0.00
42.20	1.25	0.24	1.03	0.00
42.40	1.25	0.24	1.03	0.00
42.60	1.25	0.24	1.03	0.00
42.80	1.25	0.24	1.03	0.00
43.00	1.25	0.24	1.03	0.00
43.20	1.25	0.24	1.03	0.00
43.40	1.25	0.24	1.03	0.00
43.60	1.25	0.24	1.03	0.00
43.80	1.25	0.24	1.03	0.00
44.00	1.25	0.24	1.03	0.00
44.20	1.25	0.24	1.03	0.00
44.40	1.25	0.24	1.03	0.00
44.60	1.25	0.24	1.03	0.00
44.80	1.25	0.24	1.03	0.00
45.00	1.25	0.24	1.03	0.00
45.20	1.25	0.24	1.03	0.00
45.40	1.25	0.24	1.03	0.00
45.60	1.25	0.24	1.03	0.00
45.80	1.25	0.24	1.03	0.00
46.00	1.25	0.24	1.03	0.00
46.20	1.25	0.24	1.03	0.00
46.40	1.25	0.24	1.03	0.00
46.60	1.25	0.24	1.03	0.00
46.80	1.25	0.24	1.03	0.00
47.00	1.25	0.24	1.03	0.00
47.20	1.25	0.24	1.03	0.00
47.40	1.25	0.24	1.03	0.00
47.60	1.25	0.24	1.03	0.00
47.80	1.25	0.24	1.03	0.00
48.00	1.25	0.24	1.03	0.00
48.20	1.25	0.24	1.03	0.00
48.40	1.25	0.24	1.03	0.00
48.60	1.25	0.24	1.03	0.00
48.80	1.25	0.24	1.03	0.00
49.00	1.25	0.24	1.03	0.00
49.20	1.25	0.24	1.03	0.00
49.40	1.25	0.24	1.03	0.00
49.60	1.25	0.24	1.03	0.00
49.80	1.25	0.24	1.03	0.00
50.00	1.25	0.24	1.03	0.00
50.20	1.25	0.24	1.03	0.00
50.40	1.25	0.24	1.03	0.00
50.60	1.25	0.24	1.03	0.00
50.80	1.25	0.24	1.03	0.00
51.00	1.25	0.24	1.03	0.00
51.20	1.25	0.24	1.03	0.00
51.40	1.25	0.24	1.03	0.00
51.60	1.25	0.24	1.03	0.00
51.80	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.24	1.03	0.00
52.20	1.25	0.24	1.03	0.00
52.40	1.25	0.24	1.03	0.00
52.60	1.25	0.24	1.03	0.00
52.80	1.25	0.24	1.03	0.00
53.00	1.25	0.24	1.03	0.00
53.20	1.25	0.24	1.03	0.00
53.40	1.25	0.24	1.03	0.00
53.60	1.25	0.24	1.03	0.00
53.80	1.25	0.24	1.03	0.00
54.00	1.25	0.24	1.03	0.00
54.20	1.25	0.24	1.03	0.00
54.40	1.25	0.24	1.03	0.00
54.60	1.25	0.24	1.03	0.00
54.80	1.25	0.24	1.03	0.00
55.00	1.25	0.24	1.03	0.00
55.20	1.25	0.24	1.03	0.00
55.40	1.25	0.24	1.03	0.00
55.60	1.25	0.24	1.03	0.00
55.80	1.25	0.24	1.03	0.00
56.00	1.25	0.24	1.03	0.00
56.20	1.25	0.24	1.03	0.00
56.40	1.25	0.24	1.03	0.00
56.60	1.25	0.24	1.03	0.00
56.80	1.25	0.24	1.03	0.00
57.00	1.25	0.24	1.03	0.00
57.20	1.25	0.24	1.03	0.00
57.40	1.25	0.24	1.03	0.00
57.60	1.25	0.24	1.03	0.00
57.80	1.25	0.24	1.03	0.00
58.00	1.25	0.24	1.03	0.00
58.20	1.25	0.24	1.03	0.00
58.40	1.25	0.24	1.03	0.00
58.60	1.25	0.24	1.03	0.00
58.80	1.25	0.24	1.03	0.00
59.00	1.25	0.24	1.03	0.00
59.20	1.25	0.24	1.03	0.00
59.40	1.25	0.24	1.03	0.00
59.60	1.25	0.24	1.03	0.00
59.80	1.25	0.24	1.03	0.00
60.00	1.25	0.24	1.03	0.00
60.20	1.25	0.24	1.03	0.00
60.40	1.25	0.24	1.03	0.00
60.60	1.25	0.24	1.03	0.00
60.80	1.25	0.24	1.03	0.00
61.00	1.25	0.24	1.03	0.00
61.20	1.25	0.24	1.03	0.00
61.40	1.25	0.24	1.03	0.00
61.60	1.25	0.24	1.03	0.00
61.80	1.25	0.24	1.03	0.00
62.00	1.25	0.24	1.03	0.00
62.20	1.25	0.24	1.03	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.24	1.03	0.00
62.60	1.25	0.24	1.03	0.00
62.80	1.25	0.24	1.03	0.00
63.00	1.25	0.24	1.03	0.00
63.20	1.25	0.24	1.03	0.00
63.40	1.25	0.24	1.03	0.00
63.60	1.25	0.24	1.03	0.00
63.80	1.25	0.24	1.03	0.00
64.00	1.25	0.24	1.03	0.00
64.20	1.25	0.24	1.03	0.00
64.40	1.25	0.24	1.03	0.00
64.60	1.25	0.24	1.03	0.00
64.80	1.25	0.24	1.03	0.00
65.00	1.25	0.24	1.03	0.00
65.20	1.25	0.24	1.03	0.00
65.40	1.25	0.24	1.03	0.00
65.60	1.25	0.24	1.03	0.00
65.80	1.25	0.24	1.03	0.00
66.00	1.25	0.24	1.03	0.00
66.20	1.25	0.24	1.03	0.00
66.40	1.25	0.24	1.03	0.00
66.60	1.25	0.24	1.03	0.00
66.80	1.25	0.24	1.03	0.00
67.00	1.25	0.24	1.03	0.00
67.20	1.25	0.24	1.03	0.00
67.40	1.25	0.24	1.03	0.00
67.60	1.25	0.24	1.03	0.00
67.80	1.25	0.24	1.03	0.00
68.00	1.25	0.24	1.03	0.00
68.20	1.25	0.24	1.03	0.00
68.40	1.25	0.24	1.03	0.00
68.60	1.25	0.24	1.03	0.00
68.80	1.25	0.24	1.03	0.00
69.00	1.25	0.24	1.03	0.00
69.20	1.25	0.24	1.03	0.00
69.40	1.25	0.24	1.03	0.00
69.60	1.25	0.24	1.03	0.00
69.80	1.25	0.24	1.03	0.00
70.00	1.25	0.24	1.03	0.00
70.20	1.25	0.24	1.03	0.00
70.40	1.25	0.24	1.03	0.00
70.60	1.25	0.24	1.03	0.00
70.80	1.25	0.24	1.03	0.00
71.00	1.25	0.24	1.03	0.00
71.20	1.25	0.24	1.03	0.00
71.40	1.25	0.24	1.03	0.00
71.60	1.25	0.24	1.03	0.00
71.80	1.25	0.24	1.03	0.00
72.00	1.25	0.24	1.03	0.00



**Summary for Subcatchment P-1B-6: Area 6**

Runoff = 0.27 cfs @ 1.13 hrs, Volume= 357 cf, Depth= 0.72"  
 Routed to Pond PV-6 : Pervious Pavers 6

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b>
					Paved Kv= 20.3 fps
7.5	71	Total			

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.02
1.00	0.63	0.02	0.43	<b>0.12</b>
1.20	1.02	0.14	0.81	<b>0.19</b>
1.40	1.11	0.18	0.90	0.05
1.60	1.18	0.21	0.97	0.04
1.80	1.23	0.23	1.02	0.03
2.00	<b>1.25</b>	<b>0.24</b>	<b>1.03</b>	0.01
2.20	1.25	0.24	1.03	0.00
2.40	1.25	0.24	1.03	0.00
2.60	1.25	0.24	1.03	0.00
2.80	1.25	0.24	1.03	0.00
3.00	1.25	0.24	1.03	0.00
3.20	1.25	0.24	1.03	0.00
3.40	1.25	0.24	1.03	0.00
3.60	1.25	0.24	1.03	0.00
3.80	1.25	0.24	1.03	0.00
4.00	1.25	0.24	1.03	0.00
4.20	1.25	0.24	1.03	0.00
4.40	1.25	0.24	1.03	0.00
4.60	1.25	0.24	1.03	0.00
4.80	1.25	0.24	1.03	0.00
5.00	1.25	0.24	1.03	0.00
5.20	1.25	0.24	1.03	0.00
5.40	1.25	0.24	1.03	0.00
5.60	1.25	0.24	1.03	0.00
5.80	1.25	0.24	1.03	0.00
6.00	1.25	0.24	1.03	0.00
6.20	1.25	0.24	1.03	0.00
6.40	1.25	0.24	1.03	0.00
6.60	1.25	0.24	1.03	0.00
6.80	1.25	0.24	1.03	0.00
7.00	1.25	0.24	1.03	0.00
7.20	1.25	0.24	1.03	0.00
7.40	1.25	0.24	1.03	0.00
7.60	1.25	0.24	1.03	0.00
7.80	1.25	0.24	1.03	0.00
8.00	1.25	0.24	1.03	0.00
8.20	1.25	0.24	1.03	0.00
8.40	1.25	0.24	1.03	0.00
8.60	1.25	0.24	1.03	0.00
8.80	1.25	0.24	1.03	0.00
9.00	1.25	0.24	1.03	0.00
9.20	1.25	0.24	1.03	0.00
9.40	1.25	0.24	1.03	0.00
9.60	1.25	0.24	1.03	0.00
9.80	1.25	0.24	1.03	0.00
10.00	1.25	0.24	1.03	0.00
10.20	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.24	1.03	0.00
10.60	1.25	0.24	1.03	0.00
10.80	1.25	0.24	1.03	0.00
11.00	1.25	0.24	1.03	0.00
11.20	1.25	0.24	1.03	0.00
11.40	1.25	0.24	1.03	0.00
11.60	1.25	0.24	1.03	0.00
11.80	1.25	0.24	1.03	0.00
12.00	1.25	0.24	1.03	0.00
12.20	1.25	0.24	1.03	0.00
12.40	1.25	0.24	1.03	0.00
12.60	1.25	0.24	1.03	0.00
12.80	1.25	0.24	1.03	0.00
13.00	1.25	0.24	1.03	0.00
13.20	1.25	0.24	1.03	0.00
13.40	1.25	0.24	1.03	0.00
13.60	1.25	0.24	1.03	0.00
13.80	1.25	0.24	1.03	0.00
14.00	1.25	0.24	1.03	0.00
14.20	1.25	0.24	1.03	0.00
14.40	1.25	0.24	1.03	0.00
14.60	1.25	0.24	1.03	0.00
14.80	1.25	0.24	1.03	0.00
15.00	1.25	0.24	1.03	0.00
15.20	1.25	0.24	1.03	0.00
15.40	1.25	0.24	1.03	0.00
15.60	1.25	0.24	1.03	0.00
15.80	1.25	0.24	1.03	0.00
16.00	1.25	0.24	1.03	0.00
16.20	1.25	0.24	1.03	0.00
16.40	1.25	0.24	1.03	0.00
16.60	1.25	0.24	1.03	0.00
16.80	1.25	0.24	1.03	0.00
17.00	1.25	0.24	1.03	0.00
17.20	1.25	0.24	1.03	0.00
17.40	1.25	0.24	1.03	0.00
17.60	1.25	0.24	1.03	0.00
17.80	1.25	0.24	1.03	0.00
18.00	1.25	0.24	1.03	0.00
18.20	1.25	0.24	1.03	0.00
18.40	1.25	0.24	1.03	0.00
18.60	1.25	0.24	1.03	0.00
18.80	1.25	0.24	1.03	0.00
19.00	1.25	0.24	1.03	0.00
19.20	1.25	0.24	1.03	0.00
19.40	1.25	0.24	1.03	0.00
19.60	1.25	0.24	1.03	0.00
19.80	1.25	0.24	1.03	0.00
20.00	1.25	0.24	1.03	0.00
20.20	1.25	0.24	1.03	0.00
20.40	1.25	0.24	1.03	0.00
20.60	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.24	1.03	0.00
21.00	1.25	0.24	1.03	0.00
21.20	1.25	0.24	1.03	0.00
21.40	1.25	0.24	1.03	0.00
21.60	1.25	0.24	1.03	0.00
21.80	1.25	0.24	1.03	0.00
22.00	1.25	0.24	1.03	0.00
22.20	1.25	0.24	1.03	0.00
22.40	1.25	0.24	1.03	0.00
22.60	1.25	0.24	1.03	0.00
22.80	1.25	0.24	1.03	0.00
23.00	1.25	0.24	1.03	0.00
23.20	1.25	0.24	1.03	0.00
23.40	1.25	0.24	1.03	0.00
23.60	1.25	0.24	1.03	0.00
23.80	1.25	0.24	1.03	0.00
24.00	1.25	0.24	1.03	0.00
24.20	1.25	0.24	1.03	0.00
24.40	1.25	0.24	1.03	0.00
24.60	1.25	0.24	1.03	0.00
24.80	1.25	0.24	1.03	0.00
25.00	1.25	0.24	1.03	0.00
25.20	1.25	0.24	1.03	0.00
25.40	1.25	0.24	1.03	0.00
25.60	1.25	0.24	1.03	0.00
25.80	1.25	0.24	1.03	0.00
26.00	1.25	0.24	1.03	0.00
26.20	1.25	0.24	1.03	0.00
26.40	1.25	0.24	1.03	0.00
26.60	1.25	0.24	1.03	0.00
26.80	1.25	0.24	1.03	0.00
27.00	1.25	0.24	1.03	0.00
27.20	1.25	0.24	1.03	0.00
27.40	1.25	0.24	1.03	0.00
27.60	1.25	0.24	1.03	0.00
27.80	1.25	0.24	1.03	0.00
28.00	1.25	0.24	1.03	0.00
28.20	1.25	0.24	1.03	0.00
28.40	1.25	0.24	1.03	0.00
28.60	1.25	0.24	1.03	0.00
28.80	1.25	0.24	1.03	0.00
29.00	1.25	0.24	1.03	0.00
29.20	1.25	0.24	1.03	0.00
29.40	1.25	0.24	1.03	0.00
29.60	1.25	0.24	1.03	0.00
29.80	1.25	0.24	1.03	0.00
30.00	1.25	0.24	1.03	0.00
30.20	1.25	0.24	1.03	0.00
30.40	1.25	0.24	1.03	0.00
30.60	1.25	0.24	1.03	0.00
30.80	1.25	0.24	1.03	0.00
31.00	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.24	1.03	0.00
31.40	1.25	0.24	1.03	0.00
31.60	1.25	0.24	1.03	0.00
31.80	1.25	0.24	1.03	0.00
32.00	1.25	0.24	1.03	0.00
32.20	1.25	0.24	1.03	0.00
32.40	1.25	0.24	1.03	0.00
32.60	1.25	0.24	1.03	0.00
32.80	1.25	0.24	1.03	0.00
33.00	1.25	0.24	1.03	0.00
33.20	1.25	0.24	1.03	0.00
33.40	1.25	0.24	1.03	0.00
33.60	1.25	0.24	1.03	0.00
33.80	1.25	0.24	1.03	0.00
34.00	1.25	0.24	1.03	0.00
34.20	1.25	0.24	1.03	0.00
34.40	1.25	0.24	1.03	0.00
34.60	1.25	0.24	1.03	0.00
34.80	1.25	0.24	1.03	0.00
35.00	1.25	0.24	1.03	0.00
35.20	1.25	0.24	1.03	0.00
35.40	1.25	0.24	1.03	0.00
35.60	1.25	0.24	1.03	0.00
35.80	1.25	0.24	1.03	0.00
36.00	1.25	0.24	1.03	0.00
36.20	1.25	0.24	1.03	0.00
36.40	1.25	0.24	1.03	0.00
36.60	1.25	0.24	1.03	0.00
36.80	1.25	0.24	1.03	0.00
37.00	1.25	0.24	1.03	0.00
37.20	1.25	0.24	1.03	0.00
37.40	1.25	0.24	1.03	0.00
37.60	1.25	0.24	1.03	0.00
37.80	1.25	0.24	1.03	0.00
38.00	1.25	0.24	1.03	0.00
38.20	1.25	0.24	1.03	0.00
38.40	1.25	0.24	1.03	0.00
38.60	1.25	0.24	1.03	0.00
38.80	1.25	0.24	1.03	0.00
39.00	1.25	0.24	1.03	0.00
39.20	1.25	0.24	1.03	0.00
39.40	1.25	0.24	1.03	0.00
39.60	1.25	0.24	1.03	0.00
39.80	1.25	0.24	1.03	0.00
40.00	1.25	0.24	1.03	0.00
40.20	1.25	0.24	1.03	0.00
40.40	1.25	0.24	1.03	0.00
40.60	1.25	0.24	1.03	0.00
40.80	1.25	0.24	1.03	0.00
41.00	1.25	0.24	1.03	0.00
41.20	1.25	0.24	1.03	0.00
41.40	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.24	1.03	0.00
41.80	1.25	0.24	1.03	0.00
42.00	1.25	0.24	1.03	0.00
42.20	1.25	0.24	1.03	0.00
42.40	1.25	0.24	1.03	0.00
42.60	1.25	0.24	1.03	0.00
42.80	1.25	0.24	1.03	0.00
43.00	1.25	0.24	1.03	0.00
43.20	1.25	0.24	1.03	0.00
43.40	1.25	0.24	1.03	0.00
43.60	1.25	0.24	1.03	0.00
43.80	1.25	0.24	1.03	0.00
44.00	1.25	0.24	1.03	0.00
44.20	1.25	0.24	1.03	0.00
44.40	1.25	0.24	1.03	0.00
44.60	1.25	0.24	1.03	0.00
44.80	1.25	0.24	1.03	0.00
45.00	1.25	0.24	1.03	0.00
45.20	1.25	0.24	1.03	0.00
45.40	1.25	0.24	1.03	0.00
45.60	1.25	0.24	1.03	0.00
45.80	1.25	0.24	1.03	0.00
46.00	1.25	0.24	1.03	0.00
46.20	1.25	0.24	1.03	0.00
46.40	1.25	0.24	1.03	0.00
46.60	1.25	0.24	1.03	0.00
46.80	1.25	0.24	1.03	0.00
47.00	1.25	0.24	1.03	0.00
47.20	1.25	0.24	1.03	0.00
47.40	1.25	0.24	1.03	0.00
47.60	1.25	0.24	1.03	0.00
47.80	1.25	0.24	1.03	0.00
48.00	1.25	0.24	1.03	0.00
48.20	1.25	0.24	1.03	0.00
48.40	1.25	0.24	1.03	0.00
48.60	1.25	0.24	1.03	0.00
48.80	1.25	0.24	1.03	0.00
49.00	1.25	0.24	1.03	0.00
49.20	1.25	0.24	1.03	0.00
49.40	1.25	0.24	1.03	0.00
49.60	1.25	0.24	1.03	0.00
49.80	1.25	0.24	1.03	0.00
50.00	1.25	0.24	1.03	0.00
50.20	1.25	0.24	1.03	0.00
50.40	1.25	0.24	1.03	0.00
50.60	1.25	0.24	1.03	0.00
50.80	1.25	0.24	1.03	0.00
51.00	1.25	0.24	1.03	0.00
51.20	1.25	0.24	1.03	0.00
51.40	1.25	0.24	1.03	0.00
51.60	1.25	0.24	1.03	0.00
51.80	1.25	0.24	1.03	0.00

**2023-05-17-POI-1 - Pavers 1-6**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.24	1.03	0.00
52.20	1.25	0.24	1.03	0.00
52.40	1.25	0.24	1.03	0.00
52.60	1.25	0.24	1.03	0.00
52.80	1.25	0.24	1.03	0.00
53.00	1.25	0.24	1.03	0.00
53.20	1.25	0.24	1.03	0.00
53.40	1.25	0.24	1.03	0.00
53.60	1.25	0.24	1.03	0.00
53.80	1.25	0.24	1.03	0.00
54.00	1.25	0.24	1.03	0.00
54.20	1.25	0.24	1.03	0.00
54.40	1.25	0.24	1.03	0.00
54.60	1.25	0.24	1.03	0.00
54.80	1.25	0.24	1.03	0.00
55.00	1.25	0.24	1.03	0.00
55.20	1.25	0.24	1.03	0.00
55.40	1.25	0.24	1.03	0.00
55.60	1.25	0.24	1.03	0.00
55.80	1.25	0.24	1.03	0.00
56.00	1.25	0.24	1.03	0.00
56.20	1.25	0.24	1.03	0.00
56.40	1.25	0.24	1.03	0.00
56.60	1.25	0.24	1.03	0.00
56.80	1.25	0.24	1.03	0.00
57.00	1.25	0.24	1.03	0.00
57.20	1.25	0.24	1.03	0.00
57.40	1.25	0.24	1.03	0.00
57.60	1.25	0.24	1.03	0.00
57.80	1.25	0.24	1.03	0.00
58.00	1.25	0.24	1.03	0.00
58.20	1.25	0.24	1.03	0.00
58.40	1.25	0.24	1.03	0.00
58.60	1.25	0.24	1.03	0.00
58.80	1.25	0.24	1.03	0.00
59.00	1.25	0.24	1.03	0.00
59.20	1.25	0.24	1.03	0.00
59.40	1.25	0.24	1.03	0.00
59.60	1.25	0.24	1.03	0.00
59.80	1.25	0.24	1.03	0.00
60.00	1.25	0.24	1.03	0.00
60.20	1.25	0.24	1.03	0.00
60.40	1.25	0.24	1.03	0.00
60.60	1.25	0.24	1.03	0.00
60.80	1.25	0.24	1.03	0.00
61.00	1.25	0.24	1.03	0.00
61.20	1.25	0.24	1.03	0.00
61.40	1.25	0.24	1.03	0.00
61.60	1.25	0.24	1.03	0.00
61.80	1.25	0.24	1.03	0.00
62.00	1.25	0.24	1.03	0.00
62.20	1.25	0.24	1.03	0.00

Hydrograph for Subcatchment P-1B-6: Area 6 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.24	1.03	0.00
62.60	1.25	0.24	1.03	0.00
62.80	1.25	0.24	1.03	0.00
63.00	1.25	0.24	1.03	0.00
63.20	1.25	0.24	1.03	0.00
63.40	1.25	0.24	1.03	0.00
63.60	1.25	0.24	1.03	0.00
63.80	1.25	0.24	1.03	0.00
64.00	1.25	0.24	1.03	0.00
64.20	1.25	0.24	1.03	0.00
64.40	1.25	0.24	1.03	0.00
64.60	1.25	0.24	1.03	0.00
64.80	1.25	0.24	1.03	0.00
65.00	1.25	0.24	1.03	0.00
65.20	1.25	0.24	1.03	0.00
65.40	1.25	0.24	1.03	0.00
65.60	1.25	0.24	1.03	0.00
65.80	1.25	0.24	1.03	0.00
66.00	1.25	0.24	1.03	0.00
66.20	1.25	0.24	1.03	0.00
66.40	1.25	0.24	1.03	0.00
66.60	1.25	0.24	1.03	0.00
66.80	1.25	0.24	1.03	0.00
67.00	1.25	0.24	1.03	0.00
67.20	1.25	0.24	1.03	0.00
67.40	1.25	0.24	1.03	0.00
67.60	1.25	0.24	1.03	0.00
67.80	1.25	0.24	1.03	0.00
68.00	1.25	0.24	1.03	0.00
68.20	1.25	0.24	1.03	0.00
68.40	1.25	0.24	1.03	0.00
68.60	1.25	0.24	1.03	0.00
68.80	1.25	0.24	1.03	0.00
69.00	1.25	0.24	1.03	0.00
69.20	1.25	0.24	1.03	0.00
69.40	1.25	0.24	1.03	0.00
69.60	1.25	0.24	1.03	0.00
69.80	1.25	0.24	1.03	0.00
70.00	1.25	0.24	1.03	0.00
70.20	1.25	0.24	1.03	0.00
70.40	1.25	0.24	1.03	0.00
70.60	1.25	0.24	1.03	0.00
70.80	1.25	0.24	1.03	0.00
71.00	1.25	0.24	1.03	0.00
71.20	1.25	0.24	1.03	0.00
71.40	1.25	0.24	1.03	0.00
71.60	1.25	0.24	1.03	0.00
71.80	1.25	0.24	1.03	0.00
72.00	1.25	0.24	1.03	0.00



**Summary for Pond PV-1: Pervious Pavers 1**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=28)

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 0.65" for WQV event  
 Inflow = 0.45 cfs @ 1.09 hrs, Volume= 515 cf  
 Outflow = 0.21 cfs @ 1.13 hrs, Volume= 516 cf, Atten= 53%, Lag= 2.5 min  
 Primary = 0.21 cfs @ 1.13 hrs, Volume= 516 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 541.97' @ 1.13 hrs Surf.Area= 3,078 sf Storage= 115 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 3.9 min ( 72.2 - 68.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.88'	2,401 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,002 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.88	3,078	0	0
543.83	3,078	6,002	6,002

Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.55'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.21 cfs @ 1.13 hrs HW=541.97' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.21 cfs of 0.31 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.21 cfs @ 2.44 fps)

**Hydrograph for Pond PV-1: Pervious Pavers 1**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	541.88	0.00
0.20	0.00	0	541.88	0.00
0.40	0.01	0	541.88	0.01
0.60	0.02	0	541.88	0.02
0.80	0.05	0	541.88	0.05
1.00	<b>0.37</b>	<b>30</b>	<b>541.90</b>	<b>0.18</b>
1.20	<b>0.13</b>	<b>106</b>	<b>541.97</b>	<b>0.21</b>
1.40	0.06	23	541.90	0.18
1.60	0.05	0	541.88	0.10
1.80	0.02	0	541.88	0.04
2.00	0.02	0	541.88	0.03
2.20	0.00	0	541.88	0.00
2.40	0.00	0	541.88	0.00
2.60	0.00	0	541.88	0.00
2.80	0.00	0	541.88	0.00
3.00	0.00	0	541.88	0.00
3.20	0.00	0	541.88	0.00
3.40	0.00	0	541.88	0.00
3.60	0.00	0	541.88	0.00
3.80	0.00	0	541.88	0.00
4.00	0.00	0	541.88	0.00
4.20	0.00	0	541.88	0.00
4.40	0.00	0	541.88	0.00
4.60	0.00	0	541.88	0.00
4.80	0.00	0	541.88	0.00
5.00	0.00	0	541.88	0.00
5.20	0.00	0	541.88	0.00
5.40	0.00	0	541.88	0.00
5.60	0.00	0	541.88	0.00
5.80	0.00	0	541.88	0.00
6.00	0.00	0	541.88	0.00
6.20	0.00	0	541.88	0.00
6.40	0.00	0	541.88	0.00
6.60	0.00	0	541.88	0.00
6.80	0.00	0	541.88	0.00
7.00	0.00	0	541.88	0.00
7.20	0.00	0	541.88	0.00
7.40	0.00	0	541.88	0.00
7.60	0.00	0	541.88	0.00
7.80	0.00	0	541.88	0.00
8.00	0.00	0	541.88	0.00
8.20	0.00	0	541.88	0.00
8.40	0.00	0	541.88	0.00
8.60	0.00	0	541.88	0.00
8.80	0.00	0	541.88	0.00
9.00	0.00	0	541.88	0.00
9.20	0.00	0	541.88	0.00
9.40	0.00	0	541.88	0.00
9.60	0.00	0	541.88	0.00
9.80	0.00	0	541.88	0.00
10.00	0.00	0	541.88	0.00
10.20	0.00	0	541.88	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	541.88	0.00
10.60	0.00	0	541.88	0.00
10.80	0.00	0	541.88	0.00
11.00	0.00	0	541.88	0.00
11.20	0.00	0	541.88	0.00
11.40	0.00	0	541.88	0.00
11.60	0.00	0	541.88	0.00
11.80	0.00	0	541.88	0.00
12.00	0.00	0	541.88	0.00
12.20	0.00	0	541.88	0.00
12.40	0.00	0	541.88	0.00
12.60	0.00	0	541.88	0.00
12.80	0.00	0	541.88	0.00
13.00	0.00	0	541.88	0.00
13.20	0.00	0	541.88	0.00
13.40	0.00	0	541.88	0.00
13.60	0.00	0	541.88	0.00
13.80	0.00	0	541.88	0.00
14.00	0.00	0	541.88	0.00
14.20	0.00	0	541.88	0.00
14.40	0.00	0	541.88	0.00
14.60	0.00	0	541.88	0.00
14.80	0.00	0	541.88	0.00
15.00	0.00	0	541.88	0.00
15.20	0.00	0	541.88	0.00
15.40	0.00	0	541.88	0.00
15.60	0.00	0	541.88	0.00
15.80	0.00	0	541.88	0.00
16.00	0.00	0	541.88	0.00
16.20	0.00	0	541.88	0.00
16.40	0.00	0	541.88	0.00
16.60	0.00	0	541.88	0.00
16.80	0.00	0	541.88	0.00
17.00	0.00	0	541.88	0.00
17.20	0.00	0	541.88	0.00
17.40	0.00	0	541.88	0.00
17.60	0.00	0	541.88	0.00
17.80	0.00	0	541.88	0.00
18.00	0.00	0	541.88	0.00
18.20	0.00	0	541.88	0.00
18.40	0.00	0	541.88	0.00
18.60	0.00	0	541.88	0.00
18.80	0.00	0	541.88	0.00
19.00	0.00	0	541.88	0.00
19.20	0.00	0	541.88	0.00
19.40	0.00	0	541.88	0.00
19.60	0.00	0	541.88	0.00
19.80	0.00	0	541.88	0.00
20.00	0.00	0	541.88	0.00
20.20	0.00	0	541.88	0.00
20.40	0.00	0	541.88	0.00
20.60	0.00	0	541.88	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	541.88	0.00
21.00	0.00	0	541.88	0.00
21.20	0.00	0	541.88	0.00
21.40	0.00	0	541.88	0.00
21.60	0.00	0	541.88	0.00
21.80	0.00	0	541.88	0.00
22.00	0.00	0	541.88	0.00
22.20	0.00	0	541.88	0.00
22.40	0.00	0	541.88	0.00
22.60	0.00	0	541.88	0.00
22.80	0.00	0	541.88	0.00
23.00	0.00	0	541.88	0.00
23.20	0.00	0	541.88	0.00
23.40	0.00	0	541.88	0.00
23.60	0.00	0	541.88	0.00
23.80	0.00	0	541.88	0.00
24.00	0.00	0	541.88	0.00
24.20	0.00	0	541.88	0.00
24.40	0.00	0	541.88	0.00
24.60	0.00	0	541.88	0.00
24.80	0.00	0	541.88	0.00
25.00	0.00	0	541.88	0.00
25.20	0.00	0	541.88	0.00
25.40	0.00	0	541.88	0.00
25.60	0.00	0	541.88	0.00
25.80	0.00	0	541.88	0.00
26.00	0.00	0	541.88	0.00
26.20	0.00	0	541.88	0.00
26.40	0.00	0	541.88	0.00
26.60	0.00	0	541.88	0.00
26.80	0.00	0	541.88	0.00
27.00	0.00	0	541.88	0.00
27.20	0.00	0	541.88	0.00
27.40	0.00	0	541.88	0.00
27.60	0.00	0	541.88	0.00
27.80	0.00	0	541.88	0.00
28.00	0.00	0	541.88	0.00
28.20	0.00	0	541.88	0.00
28.40	0.00	0	541.88	0.00
28.60	0.00	0	541.88	0.00
28.80	0.00	0	541.88	0.00
29.00	0.00	0	541.88	0.00
29.20	0.00	0	541.88	0.00
29.40	0.00	0	541.88	0.00
29.60	0.00	0	541.88	0.00
29.80	0.00	0	541.88	0.00
30.00	0.00	0	541.88	0.00
30.20	0.00	0	541.88	0.00
30.40	0.00	0	541.88	0.00
30.60	0.00	0	541.88	0.00
30.80	0.00	0	541.88	0.00
31.00	0.00	0	541.88	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	541.88	0.00
31.40	0.00	0	541.88	0.00
31.60	0.00	0	541.88	0.00
31.80	0.00	0	541.88	0.00
32.00	0.00	0	541.88	0.00
32.20	0.00	0	541.88	0.00
32.40	0.00	0	541.88	0.00
32.60	0.00	0	541.88	0.00
32.80	0.00	0	541.88	0.00
33.00	0.00	0	541.88	0.00
33.20	0.00	0	541.88	0.00
33.40	0.00	0	541.88	0.00
33.60	0.00	0	541.88	0.00
33.80	0.00	0	541.88	0.00
34.00	0.00	0	541.88	0.00
34.20	0.00	0	541.88	0.00
34.40	0.00	0	541.88	0.00
34.60	0.00	0	541.88	0.00
34.80	0.00	0	541.88	0.00
35.00	0.00	0	541.88	0.00
35.20	0.00	0	541.88	0.00
35.40	0.00	0	541.88	0.00
35.60	0.00	0	541.88	0.00
35.80	0.00	0	541.88	0.00
36.00	0.00	0	541.88	0.00
36.20	0.00	0	541.88	0.00
36.40	0.00	0	541.88	0.00
36.60	0.00	0	541.88	0.00
36.80	0.00	0	541.88	0.00
37.00	0.00	0	541.88	0.00
37.20	0.00	0	541.88	0.00
37.40	0.00	0	541.88	0.00
37.60	0.00	0	541.88	0.00
37.80	0.00	0	541.88	0.00
38.00	0.00	0	541.88	0.00
38.20	0.00	0	541.88	0.00
38.40	0.00	0	541.88	0.00
38.60	0.00	0	541.88	0.00
38.80	0.00	0	541.88	0.00
39.00	0.00	0	541.88	0.00
39.20	0.00	0	541.88	0.00
39.40	0.00	0	541.88	0.00
39.60	0.00	0	541.88	0.00
39.80	0.00	0	541.88	0.00
40.00	0.00	0	541.88	0.00
40.20	0.00	0	541.88	0.00
40.40	0.00	0	541.88	0.00
40.60	0.00	0	541.88	0.00
40.80	0.00	0	541.88	0.00
41.00	0.00	0	541.88	0.00
41.20	0.00	0	541.88	0.00
41.40	0.00	0	541.88	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	541.88	0.00
41.80	0.00	0	541.88	0.00
42.00	0.00	0	541.88	0.00
42.20	0.00	0	541.88	0.00
42.40	0.00	0	541.88	0.00
42.60	0.00	0	541.88	0.00
42.80	0.00	0	541.88	0.00
43.00	0.00	0	541.88	0.00
43.20	0.00	0	541.88	0.00
43.40	0.00	0	541.88	0.00
43.60	0.00	0	541.88	0.00
43.80	0.00	0	541.88	0.00
44.00	0.00	0	541.88	0.00
44.20	0.00	0	541.88	0.00
44.40	0.00	0	541.88	0.00
44.60	0.00	0	541.88	0.00
44.80	0.00	0	541.88	0.00
45.00	0.00	0	541.88	0.00
45.20	0.00	0	541.88	0.00
45.40	0.00	0	541.88	0.00
45.60	0.00	0	541.88	0.00
45.80	0.00	0	541.88	0.00
46.00	0.00	0	541.88	0.00
46.20	0.00	0	541.88	0.00
46.40	0.00	0	541.88	0.00
46.60	0.00	0	541.88	0.00
46.80	0.00	0	541.88	0.00
47.00	0.00	0	541.88	0.00
47.20	0.00	0	541.88	0.00
47.40	0.00	0	541.88	0.00
47.60	0.00	0	541.88	0.00
47.80	0.00	0	541.88	0.00
48.00	0.00	0	541.88	0.00
48.20	0.00	0	541.88	0.00
48.40	0.00	0	541.88	0.00
48.60	0.00	0	541.88	0.00
48.80	0.00	0	541.88	0.00
49.00	0.00	0	541.88	0.00
49.20	0.00	0	541.88	0.00
49.40	0.00	0	541.88	0.00
49.60	0.00	0	541.88	0.00
49.80	0.00	0	541.88	0.00
50.00	0.00	0	541.88	0.00
50.20	0.00	0	541.88	0.00
50.40	0.00	0	541.88	0.00
50.60	0.00	0	541.88	0.00
50.80	0.00	0	541.88	0.00
51.00	0.00	0	541.88	0.00
51.20	0.00	0	541.88	0.00
51.40	0.00	0	541.88	0.00
51.60	0.00	0	541.88	0.00
51.80	0.00	0	541.88	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	541.88	0.00
52.20	0.00	0	541.88	0.00
52.40	0.00	0	541.88	0.00
52.60	0.00	0	541.88	0.00
52.80	0.00	0	541.88	0.00
53.00	0.00	0	541.88	0.00
53.20	0.00	0	541.88	0.00
53.40	0.00	0	541.88	0.00
53.60	0.00	0	541.88	0.00
53.80	0.00	0	541.88	0.00
54.00	0.00	0	541.88	0.00
54.20	0.00	0	541.88	0.00
54.40	0.00	0	541.88	0.00
54.60	0.00	0	541.88	0.00
54.80	0.00	0	541.88	0.00
55.00	0.00	0	541.88	0.00
55.20	0.00	0	541.88	0.00
55.40	0.00	0	541.88	0.00
55.60	0.00	0	541.88	0.00
55.80	0.00	0	541.88	0.00
56.00	0.00	0	541.88	0.00
56.20	0.00	0	541.88	0.00
56.40	0.00	0	541.88	0.00
56.60	0.00	0	541.88	0.00
56.80	0.00	0	541.88	0.00
57.00	0.00	0	541.88	0.00
57.20	0.00	0	541.88	0.00
57.40	0.00	0	541.88	0.00
57.60	0.00	0	541.88	0.00
57.80	0.00	0	541.88	0.00
58.00	0.00	0	541.88	0.00
58.20	0.00	0	541.88	0.00
58.40	0.00	0	541.88	0.00
58.60	0.00	0	541.88	0.00
58.80	0.00	0	541.88	0.00
59.00	0.00	0	541.88	0.00
59.20	0.00	0	541.88	0.00
59.40	0.00	0	541.88	0.00
59.60	0.00	0	541.88	0.00
59.80	0.00	0	541.88	0.00
60.00	0.00	0	541.88	0.00
60.20	0.00	0	541.88	0.00
60.40	0.00	0	541.88	0.00
60.60	0.00	0	541.88	0.00
60.80	0.00	0	541.88	0.00
61.00	0.00	0	541.88	0.00
61.20	0.00	0	541.88	0.00
61.40	0.00	0	541.88	0.00
61.60	0.00	0	541.88	0.00
61.80	0.00	0	541.88	0.00
62.00	0.00	0	541.88	0.00
62.20	0.00	0	541.88	0.00

Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	541.88	0.00
62.60	0.00	0	541.88	0.00
62.80	0.00	0	541.88	0.00
63.00	0.00	0	541.88	0.00
63.20	0.00	0	541.88	0.00
63.40	0.00	0	541.88	0.00
63.60	0.00	0	541.88	0.00
63.80	0.00	0	541.88	0.00
64.00	0.00	0	541.88	0.00
64.20	0.00	0	541.88	0.00
64.40	0.00	0	541.88	0.00
64.60	0.00	0	541.88	0.00
64.80	0.00	0	541.88	0.00
65.00	0.00	0	541.88	0.00
65.20	0.00	0	541.88	0.00
65.40	0.00	0	541.88	0.00
65.60	0.00	0	541.88	0.00
65.80	0.00	0	541.88	0.00
66.00	0.00	0	541.88	0.00
66.20	0.00	0	541.88	0.00
66.40	0.00	0	541.88	0.00
66.60	0.00	0	541.88	0.00
66.80	0.00	0	541.88	0.00
67.00	0.00	0	541.88	0.00
67.20	0.00	0	541.88	0.00
67.40	0.00	0	541.88	0.00
67.60	0.00	0	541.88	0.00
67.80	0.00	0	541.88	0.00
68.00	0.00	0	541.88	0.00
68.20	0.00	0	541.88	0.00
68.40	0.00	0	541.88	0.00
68.60	0.00	0	541.88	0.00
68.80	0.00	0	541.88	0.00
69.00	0.00	0	541.88	0.00
69.20	0.00	0	541.88	0.00
69.40	0.00	0	541.88	0.00
69.60	0.00	0	541.88	0.00
69.80	0.00	0	541.88	0.00
70.00	0.00	0	541.88	0.00
70.20	0.00	0	541.88	0.00
70.40	0.00	0	541.88	0.00
70.60	0.00	0	541.88	0.00
70.80	0.00	0	541.88	0.00
71.00	0.00	0	541.88	0.00
71.20	0.00	0	541.88	0.00
71.40	0.00	0	541.88	0.00
71.60	0.00	0	541.88	0.00
71.80	0.00	0	541.88	0.00
72.00	0.00	0	541.88	0.00



**Stage-Area-Storage for Pond PV-1: Pervious Pavers 1**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
541.88	3,078	0	542.40	3,078	640
541.89	3,078	12	542.41	3,078	653
541.90	3,078	25	542.42	3,078	665
541.91	3,078	37	542.43	3,078	677
541.92	3,078	49	542.44	3,078	689
541.93	3,078	62	542.45	3,078	702
541.94	3,078	74	542.46	3,078	714
541.95	3,078	86	542.47	3,078	726
541.96	3,078	98	542.48	3,078	739
541.97	3,078	111	542.49	3,078	751
541.98	3,078	123	542.50	3,078	763
541.99	3,078	135	542.51	3,078	776
542.00	3,078	148	542.52	3,078	788
542.01	3,078	160	542.53	3,078	800
542.02	3,078	172	542.54	3,078	813
542.03	3,078	185	542.55	3,078	825
542.04	3,078	197	542.56	3,078	837
542.05	3,078	209	542.57	3,078	850
542.06	3,078	222	542.58	3,078	862
542.07	3,078	234	542.59	3,078	874
542.08	3,078	246	542.60	3,078	886
542.09	3,078	259	542.61	3,078	899
542.10	3,078	271	542.62	3,078	911
542.11	3,078	283	542.63	3,078	923
542.12	3,078	295	542.64	3,078	936
542.13	3,078	308	542.65	3,078	948
542.14	3,078	320	542.66	3,078	960
542.15	3,078	332	542.67	3,078	973
542.16	3,078	345	542.68	3,078	985
542.17	3,078	357	542.69	3,078	997
542.18	3,078	369	542.70	3,078	1,010
542.19	3,078	382	542.71	3,078	1,022
542.20	3,078	394	542.72	3,078	1,034
542.21	3,078	406	542.73	3,078	1,047
542.22	3,078	419	542.74	3,078	1,059
542.23	3,078	431	542.75	3,078	1,071
542.24	3,078	443	542.76	3,078	1,083
542.25	3,078	456	542.77	3,078	1,096
542.26	3,078	468	542.78	3,078	1,108
542.27	3,078	480	542.79	3,078	1,120
542.28	3,078	492	542.80	3,078	1,133
542.29	3,078	505	542.81	3,078	1,145
542.30	3,078	517	542.82	3,078	1,157
542.31	3,078	529	542.83	3,078	1,170
542.32	3,078	542	542.84	3,078	1,182
542.33	3,078	554	542.85	3,078	1,194
542.34	3,078	566	542.86	3,078	1,207
542.35	3,078	579	542.87	3,078	1,219
542.36	3,078	591	542.88	3,078	1,231
542.37	3,078	603	542.89	3,078	1,244
542.38	3,078	616	542.90	3,078	1,256
542.39	3,078	628	542.91	3,078	1,268

**Stage-Area-Storage for Pond PV-1: Pervious Pavers 1 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.92	3,078	1,280	543.44	3,078	1,921
542.93	3,078	1,293	543.45	3,078	1,933
542.94	3,078	1,305	543.46	3,078	1,945
542.95	3,078	1,317	543.47	3,078	1,958
542.96	3,078	1,330	543.48	3,078	1,970
542.97	3,078	1,342	543.49	3,078	1,982
542.98	3,078	1,354	543.50	3,078	1,995
542.99	3,078	1,367	543.51	3,078	2,007
543.00	3,078	1,379	543.52	3,078	2,019
543.01	3,078	1,391	543.53	3,078	2,031
543.02	3,078	1,404	543.54	3,078	2,044
543.03	3,078	1,416	543.55	3,078	2,056
543.04	3,078	1,428	543.56	3,078	2,068
543.05	3,078	1,441	543.57	3,078	2,081
543.06	3,078	1,453	543.58	3,078	2,093
543.07	3,078	1,465	543.59	3,078	2,105
543.08	3,078	1,477	543.60	3,078	2,118
543.09	3,078	1,490	543.61	3,078	2,130
543.10	3,078	1,502	543.62	3,078	2,142
543.11	3,078	1,514	543.63	3,078	2,155
543.12	3,078	1,527	543.64	3,078	2,167
543.13	3,078	1,539	543.65	3,078	2,179
543.14	3,078	1,551	543.66	3,078	2,192
543.15	3,078	1,564	543.67	3,078	2,204
543.16	3,078	1,576	543.68	3,078	2,216
543.17	3,078	1,588	543.69	3,078	2,228
543.18	3,078	1,601	543.70	3,078	2,241
543.19	3,078	1,613	543.71	3,078	2,253
543.20	3,078	1,625	543.72	3,078	2,265
543.21	3,078	1,637	543.73	3,078	2,278
543.22	3,078	1,650	543.74	3,078	2,290
543.23	3,078	1,662	543.75	3,078	2,302
543.24	3,078	1,674	543.76	3,078	2,315
543.25	3,078	1,687	543.77	3,078	2,327
543.26	3,078	1,699	543.78	3,078	2,339
543.27	3,078	1,711	543.79	3,078	2,352
543.28	3,078	1,724	543.80	3,078	2,364
543.29	3,078	1,736	543.81	3,078	2,376
543.30	3,078	1,748	543.82	3,078	2,389
543.31	3,078	1,761	543.83	3,078	<b>2,401</b>
543.32	3,078	1,773			
543.33	3,078	1,785			
543.34	3,078	1,798			
543.35	3,078	1,810			
543.36	3,078	1,822			
543.37	3,078	1,834			
543.38	3,078	1,847			
543.39	3,078	1,859			
543.40	3,078	1,871			
543.41	3,078	1,884			
543.42	3,078	1,896			
543.43	3,078	1,908			

**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=33)

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 0.57" for WQV event  
 Inflow = 0.20 cfs @ 1.09 hrs, Volume= 230 cf  
 Outflow = 0.17 cfs @ 1.11 hrs, Volume= 230 cf, Atten= 15%, Lag= 1.2 min  
 Primary = 0.17 cfs @ 1.11 hrs, Volume= 230 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.26' @ 1.11 hrs Surf.Area= 2,214 sf Storage= 6 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 0.1 min ( 70.0 - 69.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.25'	1,311 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,277 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.25	2,214	0	0
543.73	2,214	3,277	3,277

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.92'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.17 cfs @ 1.11 hrs HW=542.26' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.17 cfs of 0.50 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.17 cfs @ 1.98 fps)

**Hydrograph for Pond PV-2: Pervious Pavers 2**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.25	0.00
0.20	0.00	0	542.25	0.00
0.40	0.00	0	542.25	0.00
0.60	0.01	0	542.25	0.01
0.80	0.02	0	542.25	0.02
1.00	<b>0.15</b>	<b>0</b>	<b>542.25</b>	<b>0.15</b>
1.20	<b>0.07</b>	<b>0</b>	<b>542.25</b>	<b>0.07</b>
1.40	0.03	0	542.25	0.03
1.60	0.02	0	542.25	0.02
1.80	0.01	0	542.25	0.01
2.00	0.01	0	542.25	0.01
2.20	0.00	0	542.25	0.00
2.40	0.00	0	542.25	0.00
2.60	0.00	0	542.25	0.00
2.80	0.00	0	542.25	0.00
3.00	0.00	0	542.25	0.00
3.20	0.00	0	542.25	0.00
3.40	0.00	0	542.25	0.00
3.60	0.00	0	542.25	0.00
3.80	0.00	0	542.25	0.00
4.00	0.00	0	542.25	0.00
4.20	0.00	0	542.25	0.00
4.40	0.00	0	542.25	0.00
4.60	0.00	0	542.25	0.00
4.80	0.00	0	542.25	0.00
5.00	0.00	0	542.25	0.00
5.20	0.00	0	542.25	0.00
5.40	0.00	0	542.25	0.00
5.60	0.00	0	542.25	0.00
5.80	0.00	0	542.25	0.00
6.00	0.00	0	542.25	0.00
6.20	0.00	0	542.25	0.00
6.40	0.00	0	542.25	0.00
6.60	0.00	0	542.25	0.00
6.80	0.00	0	542.25	0.00
7.00	0.00	0	542.25	0.00
7.20	0.00	0	542.25	0.00
7.40	0.00	0	542.25	0.00
7.60	0.00	0	542.25	0.00
7.80	0.00	0	542.25	0.00
8.00	0.00	0	542.25	0.00
8.20	0.00	0	542.25	0.00
8.40	0.00	0	542.25	0.00
8.60	0.00	0	542.25	0.00
8.80	0.00	0	542.25	0.00
9.00	0.00	0	542.25	0.00
9.20	0.00	0	542.25	0.00
9.40	0.00	0	542.25	0.00
9.60	0.00	0	542.25	0.00
9.80	0.00	0	542.25	0.00
10.00	0.00	0	542.25	0.00
10.20	0.00	0	542.25	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	542.25	0.00
10.60	0.00	0	542.25	0.00
10.80	0.00	0	542.25	0.00
11.00	0.00	0	542.25	0.00
11.20	0.00	0	542.25	0.00
11.40	0.00	0	542.25	0.00
11.60	0.00	0	542.25	0.00
11.80	0.00	0	542.25	0.00
12.00	0.00	0	542.25	0.00
12.20	0.00	0	542.25	0.00
12.40	0.00	0	542.25	0.00
12.60	0.00	0	542.25	0.00
12.80	0.00	0	542.25	0.00
13.00	0.00	0	542.25	0.00
13.20	0.00	0	542.25	0.00
13.40	0.00	0	542.25	0.00
13.60	0.00	0	542.25	0.00
13.80	0.00	0	542.25	0.00
14.00	0.00	0	542.25	0.00
14.20	0.00	0	542.25	0.00
14.40	0.00	0	542.25	0.00
14.60	0.00	0	542.25	0.00
14.80	0.00	0	542.25	0.00
15.00	0.00	0	542.25	0.00
15.20	0.00	0	542.25	0.00
15.40	0.00	0	542.25	0.00
15.60	0.00	0	542.25	0.00
15.80	0.00	0	542.25	0.00
16.00	0.00	0	542.25	0.00
16.20	0.00	0	542.25	0.00
16.40	0.00	0	542.25	0.00
16.60	0.00	0	542.25	0.00
16.80	0.00	0	542.25	0.00
17.00	0.00	0	542.25	0.00
17.20	0.00	0	542.25	0.00
17.40	0.00	0	542.25	0.00
17.60	0.00	0	542.25	0.00
17.80	0.00	0	542.25	0.00
18.00	0.00	0	542.25	0.00
18.20	0.00	0	542.25	0.00
18.40	0.00	0	542.25	0.00
18.60	0.00	0	542.25	0.00
18.80	0.00	0	542.25	0.00
19.00	0.00	0	542.25	0.00
19.20	0.00	0	542.25	0.00
19.40	0.00	0	542.25	0.00
19.60	0.00	0	542.25	0.00
19.80	0.00	0	542.25	0.00
20.00	0.00	0	542.25	0.00
20.20	0.00	0	542.25	0.00
20.40	0.00	0	542.25	0.00
20.60	0.00	0	542.25	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	542.25	0.00
21.00	0.00	0	542.25	0.00
21.20	0.00	0	542.25	0.00
21.40	0.00	0	542.25	0.00
21.60	0.00	0	542.25	0.00
21.80	0.00	0	542.25	0.00
22.00	0.00	0	542.25	0.00
22.20	0.00	0	542.25	0.00
22.40	0.00	0	542.25	0.00
22.60	0.00	0	542.25	0.00
22.80	0.00	0	542.25	0.00
23.00	0.00	0	542.25	0.00
23.20	0.00	0	542.25	0.00
23.40	0.00	0	542.25	0.00
23.60	0.00	0	542.25	0.00
23.80	0.00	0	542.25	0.00
24.00	0.00	0	542.25	0.00
24.20	0.00	0	542.25	0.00
24.40	0.00	0	542.25	0.00
24.60	0.00	0	542.25	0.00
24.80	0.00	0	542.25	0.00
25.00	0.00	0	542.25	0.00
25.20	0.00	0	542.25	0.00
25.40	0.00	0	542.25	0.00
25.60	0.00	0	542.25	0.00
25.80	0.00	0	542.25	0.00
26.00	0.00	0	542.25	0.00
26.20	0.00	0	542.25	0.00
26.40	0.00	0	542.25	0.00
26.60	0.00	0	542.25	0.00
26.80	0.00	0	542.25	0.00
27.00	0.00	0	542.25	0.00
27.20	0.00	0	542.25	0.00
27.40	0.00	0	542.25	0.00
27.60	0.00	0	542.25	0.00
27.80	0.00	0	542.25	0.00
28.00	0.00	0	542.25	0.00
28.20	0.00	0	542.25	0.00
28.40	0.00	0	542.25	0.00
28.60	0.00	0	542.25	0.00
28.80	0.00	0	542.25	0.00
29.00	0.00	0	542.25	0.00
29.20	0.00	0	542.25	0.00
29.40	0.00	0	542.25	0.00
29.60	0.00	0	542.25	0.00
29.80	0.00	0	542.25	0.00
30.00	0.00	0	542.25	0.00
30.20	0.00	0	542.25	0.00
30.40	0.00	0	542.25	0.00
30.60	0.00	0	542.25	0.00
30.80	0.00	0	542.25	0.00
31.00	0.00	0	542.25	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	542.25	0.00
31.40	0.00	0	542.25	0.00
31.60	0.00	0	542.25	0.00
31.80	0.00	0	542.25	0.00
32.00	0.00	0	542.25	0.00
32.20	0.00	0	542.25	0.00
32.40	0.00	0	542.25	0.00
32.60	0.00	0	542.25	0.00
32.80	0.00	0	542.25	0.00
33.00	0.00	0	542.25	0.00
33.20	0.00	0	542.25	0.00
33.40	0.00	0	542.25	0.00
33.60	0.00	0	542.25	0.00
33.80	0.00	0	542.25	0.00
34.00	0.00	0	542.25	0.00
34.20	0.00	0	542.25	0.00
34.40	0.00	0	542.25	0.00
34.60	0.00	0	542.25	0.00
34.80	0.00	0	542.25	0.00
35.00	0.00	0	542.25	0.00
35.20	0.00	0	542.25	0.00
35.40	0.00	0	542.25	0.00
35.60	0.00	0	542.25	0.00
35.80	0.00	0	542.25	0.00
36.00	0.00	0	542.25	0.00
36.20	0.00	0	542.25	0.00
36.40	0.00	0	542.25	0.00
36.60	0.00	0	542.25	0.00
36.80	0.00	0	542.25	0.00
37.00	0.00	0	542.25	0.00
37.20	0.00	0	542.25	0.00
37.40	0.00	0	542.25	0.00
37.60	0.00	0	542.25	0.00
37.80	0.00	0	542.25	0.00
38.00	0.00	0	542.25	0.00
38.20	0.00	0	542.25	0.00
38.40	0.00	0	542.25	0.00
38.60	0.00	0	542.25	0.00
38.80	0.00	0	542.25	0.00
39.00	0.00	0	542.25	0.00
39.20	0.00	0	542.25	0.00
39.40	0.00	0	542.25	0.00
39.60	0.00	0	542.25	0.00
39.80	0.00	0	542.25	0.00
40.00	0.00	0	542.25	0.00
40.20	0.00	0	542.25	0.00
40.40	0.00	0	542.25	0.00
40.60	0.00	0	542.25	0.00
40.80	0.00	0	542.25	0.00
41.00	0.00	0	542.25	0.00
41.20	0.00	0	542.25	0.00
41.40	0.00	0	542.25	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	542.25	0.00
41.80	0.00	0	542.25	0.00
42.00	0.00	0	542.25	0.00
42.20	0.00	0	542.25	0.00
42.40	0.00	0	542.25	0.00
42.60	0.00	0	542.25	0.00
42.80	0.00	0	542.25	0.00
43.00	0.00	0	542.25	0.00
43.20	0.00	0	542.25	0.00
43.40	0.00	0	542.25	0.00
43.60	0.00	0	542.25	0.00
43.80	0.00	0	542.25	0.00
44.00	0.00	0	542.25	0.00
44.20	0.00	0	542.25	0.00
44.40	0.00	0	542.25	0.00
44.60	0.00	0	542.25	0.00
44.80	0.00	0	542.25	0.00
45.00	0.00	0	542.25	0.00
45.20	0.00	0	542.25	0.00
45.40	0.00	0	542.25	0.00
45.60	0.00	0	542.25	0.00
45.80	0.00	0	542.25	0.00
46.00	0.00	0	542.25	0.00
46.20	0.00	0	542.25	0.00
46.40	0.00	0	542.25	0.00
46.60	0.00	0	542.25	0.00
46.80	0.00	0	542.25	0.00
47.00	0.00	0	542.25	0.00
47.20	0.00	0	542.25	0.00
47.40	0.00	0	542.25	0.00
47.60	0.00	0	542.25	0.00
47.80	0.00	0	542.25	0.00
48.00	0.00	0	542.25	0.00
48.20	0.00	0	542.25	0.00
48.40	0.00	0	542.25	0.00
48.60	0.00	0	542.25	0.00
48.80	0.00	0	542.25	0.00
49.00	0.00	0	542.25	0.00
49.20	0.00	0	542.25	0.00
49.40	0.00	0	542.25	0.00
49.60	0.00	0	542.25	0.00
49.80	0.00	0	542.25	0.00
50.00	0.00	0	542.25	0.00
50.20	0.00	0	542.25	0.00
50.40	0.00	0	542.25	0.00
50.60	0.00	0	542.25	0.00
50.80	0.00	0	542.25	0.00
51.00	0.00	0	542.25	0.00
51.20	0.00	0	542.25	0.00
51.40	0.00	0	542.25	0.00
51.60	0.00	0	542.25	0.00
51.80	0.00	0	542.25	0.00



**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.25	0.00
52.20	0.00	0	542.25	0.00
52.40	0.00	0	542.25	0.00
52.60	0.00	0	542.25	0.00
52.80	0.00	0	542.25	0.00
53.00	0.00	0	542.25	0.00
53.20	0.00	0	542.25	0.00
53.40	0.00	0	542.25	0.00
53.60	0.00	0	542.25	0.00
53.80	0.00	0	542.25	0.00
54.00	0.00	0	542.25	0.00
54.20	0.00	0	542.25	0.00
54.40	0.00	0	542.25	0.00
54.60	0.00	0	542.25	0.00
54.80	0.00	0	542.25	0.00
55.00	0.00	0	542.25	0.00
55.20	0.00	0	542.25	0.00
55.40	0.00	0	542.25	0.00
55.60	0.00	0	542.25	0.00
55.80	0.00	0	542.25	0.00
56.00	0.00	0	542.25	0.00
56.20	0.00	0	542.25	0.00
56.40	0.00	0	542.25	0.00
56.60	0.00	0	542.25	0.00
56.80	0.00	0	542.25	0.00
57.00	0.00	0	542.25	0.00
57.20	0.00	0	542.25	0.00
57.40	0.00	0	542.25	0.00
57.60	0.00	0	542.25	0.00
57.80	0.00	0	542.25	0.00
58.00	0.00	0	542.25	0.00
58.20	0.00	0	542.25	0.00
58.40	0.00	0	542.25	0.00
58.60	0.00	0	542.25	0.00
58.80	0.00	0	542.25	0.00
59.00	0.00	0	542.25	0.00
59.20	0.00	0	542.25	0.00
59.40	0.00	0	542.25	0.00
59.60	0.00	0	542.25	0.00
59.80	0.00	0	542.25	0.00
60.00	0.00	0	542.25	0.00
60.20	0.00	0	542.25	0.00
60.40	0.00	0	542.25	0.00
60.60	0.00	0	542.25	0.00
60.80	0.00	0	542.25	0.00
61.00	0.00	0	542.25	0.00
61.20	0.00	0	542.25	0.00
61.40	0.00	0	542.25	0.00
61.60	0.00	0	542.25	0.00
61.80	0.00	0	542.25	0.00
62.00	0.00	0	542.25	0.00
62.20	0.00	0	542.25	0.00

Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.25	0.00
62.60	0.00	0	542.25	0.00
62.80	0.00	0	542.25	0.00
63.00	0.00	0	542.25	0.00
63.20	0.00	0	542.25	0.00
63.40	0.00	0	542.25	0.00
63.60	0.00	0	542.25	0.00
63.80	0.00	0	542.25	0.00
64.00	0.00	0	542.25	0.00
64.20	0.00	0	542.25	0.00
64.40	0.00	0	542.25	0.00
64.60	0.00	0	542.25	0.00
64.80	0.00	0	542.25	0.00
65.00	0.00	0	542.25	0.00
65.20	0.00	0	542.25	0.00
65.40	0.00	0	542.25	0.00
65.60	0.00	0	542.25	0.00
65.80	0.00	0	542.25	0.00
66.00	0.00	0	542.25	0.00
66.20	0.00	0	542.25	0.00
66.40	0.00	0	542.25	0.00
66.60	0.00	0	542.25	0.00
66.80	0.00	0	542.25	0.00
67.00	0.00	0	542.25	0.00
67.20	0.00	0	542.25	0.00
67.40	0.00	0	542.25	0.00
67.60	0.00	0	542.25	0.00
67.80	0.00	0	542.25	0.00
68.00	0.00	0	542.25	0.00
68.20	0.00	0	542.25	0.00
68.40	0.00	0	542.25	0.00
68.60	0.00	0	542.25	0.00
68.80	0.00	0	542.25	0.00
69.00	0.00	0	542.25	0.00
69.20	0.00	0	542.25	0.00
69.40	0.00	0	542.25	0.00
69.60	0.00	0	542.25	0.00
69.80	0.00	0	542.25	0.00
70.00	0.00	0	542.25	0.00
70.20	0.00	0	542.25	0.00
70.40	0.00	0	542.25	0.00
70.60	0.00	0	542.25	0.00
70.80	0.00	0	542.25	0.00
71.00	0.00	0	542.25	0.00
71.20	0.00	0	542.25	0.00
71.40	0.00	0	542.25	0.00
71.60	0.00	0	542.25	0.00
71.80	0.00	0	542.25	0.00
72.00	0.00	0	542.25	0.00

**Stage-Area-Storage for Pond PV-2: Pervious Pavers 2**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.25	2,214	0	542.77	2,214	461
542.26	2,214	9	542.78	2,214	469
542.27	2,214	18	542.79	2,214	478
542.28	2,214	27	542.80	2,214	487
542.29	2,214	35	542.81	2,214	496
542.30	2,214	44	542.82	2,214	505
542.31	2,214	53	542.83	2,214	514
542.32	2,214	62	542.84	2,214	523
542.33	2,214	71	542.85	2,214	531
542.34	2,214	80	542.86	2,214	540
542.35	2,214	89	542.87	2,214	549
542.36	2,214	97	542.88	2,214	558
542.37	2,214	106	542.89	2,214	567
542.38	2,214	115	542.90	2,214	576
542.39	2,214	124	542.91	2,214	584
542.40	2,214	133	542.92	2,214	593
542.41	2,214	142	542.93	2,214	602
542.42	2,214	151	542.94	2,214	611
542.43	2,214	159	542.95	2,214	620
542.44	2,214	168	542.96	2,214	629
542.45	2,214	177	542.97	2,214	638
542.46	2,214	186	542.98	2,214	646
542.47	2,214	195	542.99	2,214	655
542.48	2,214	204	543.00	2,214	664
542.49	2,214	213	543.01	2,214	673
542.50	2,214	221	543.02	2,214	682
542.51	2,214	230	543.03	2,214	691
542.52	2,214	239	543.04	2,214	700
542.53	2,214	248	543.05	2,214	708
542.54	2,214	257	543.06	2,214	717
542.55	2,214	266	543.07	2,214	726
542.56	2,214	275	543.08	2,214	735
542.57	2,214	283	543.09	2,214	744
542.58	2,214	292	543.10	2,214	753
542.59	2,214	301	543.11	2,214	762
542.60	2,214	310	543.12	2,214	770
542.61	2,214	319	543.13	2,214	779
542.62	2,214	328	543.14	2,214	788
542.63	2,214	337	543.15	2,214	797
542.64	2,214	345	543.16	2,214	806
542.65	2,214	354	543.17	2,214	815
542.66	2,214	363	543.18	2,214	824
542.67	2,214	372	543.19	2,214	832
542.68	2,214	381	543.20	2,214	841
542.69	2,214	390	543.21	2,214	850
542.70	2,214	399	543.22	2,214	859
542.71	2,214	407	543.23	2,214	868
542.72	2,214	416	543.24	2,214	877
542.73	2,214	425	543.25	2,214	886
542.74	2,214	434	543.26	2,214	894
542.75	2,214	443	543.27	2,214	903
542.76	2,214	452	543.28	2,214	912

**Stage-Area-Storage for Pond PV-2: Pervious Pavers 2 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.29	2,214	921
543.30	2,214	930
543.31	2,214	939
543.32	2,214	948
543.33	2,214	956
543.34	2,214	965
543.35	2,214	974
543.36	2,214	983
543.37	2,214	992
543.38	2,214	1,001
543.39	2,214	1,010
543.40	2,214	1,018
543.41	2,214	1,027
543.42	2,214	1,036
543.43	2,214	1,045
543.44	2,214	1,054
543.45	2,214	1,063
543.46	2,214	1,072
543.47	2,214	1,080
543.48	2,214	1,089
543.49	2,214	1,098
543.50	2,214	1,107
543.51	2,214	1,116
543.52	2,214	1,125
543.53	2,214	1,134
543.54	2,214	1,142
543.55	2,214	1,151
543.56	2,214	1,160
543.57	2,214	1,169
543.58	2,214	1,178
543.59	2,214	1,187
543.60	2,214	1,196
543.61	2,214	1,204
543.62	2,214	1,213
543.63	2,214	1,222
543.64	2,214	1,231
543.65	2,214	1,240
543.66	2,214	1,249
543.67	2,214	1,258
543.68	2,214	1,266
543.69	2,214	1,275
543.70	2,214	1,284
543.71	2,214	1,293
543.72	2,214	1,302
543.73	2,214	<b>1,311</b>

**Summary for Pond PV-3: Pervious Pavers 3**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=39)

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 0.60" for WQV event  
 Inflow = 0.28 cfs @ 1.09 hrs, Volume= 327 cf  
 Outflow = 0.19 cfs @ 1.13 hrs, Volume= 327 cf, Atten= 33%, Lag= 2.3 min  
 Primary = 0.19 cfs @ 1.13 hrs, Volume= 327 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.07' @ 1.13 hrs Surf.Area= 2,400 sf Storage= 33 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 0.9 min ( 71.0 - 70.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.04'	1,718 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,296 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.04	2,400	0	0
543.83	2,400	4,296	4,296

Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.71'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.19 cfs @ 1.13 hrs HW=542.07' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.19 cfs of 0.24 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.19 cfs @ 2.14 fps)

**Hydrograph for Pond PV-3: Pervious Pavers 3**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.04	0.00
0.20	0.00	0	542.04	0.00
0.40	0.00	0	542.04	0.00
0.60	0.01	0	542.04	0.01
0.80	0.03	0	542.04	0.03
1.00	<b>0.20</b>	<b>1</b>	<b>542.04</b>	<b>0.17</b>
1.20	<b>0.11</b>	<b>22</b>	<b>542.06</b>	<b>0.18</b>
1.40	0.04	0	542.04	0.03
1.60	0.03	0	542.04	0.02
1.80	0.02	0	542.04	0.01
2.00	0.01	0	542.04	0.00
2.20	0.00	0	542.04	0.00
2.40	0.00	0	542.04	0.00
2.60	0.00	0	542.04	0.00
2.80	0.00	0	542.04	0.00
3.00	0.00	0	542.04	0.00
3.20	0.00	0	542.04	0.00
3.40	0.00	0	542.04	0.00
3.60	0.00	0	542.04	0.00
3.80	0.00	0	542.04	0.00
4.00	0.00	0	542.04	0.00
4.20	0.00	0	542.04	0.00
4.40	0.00	0	542.04	0.00
4.60	0.00	0	542.04	0.00
4.80	0.00	0	542.04	0.00
5.00	0.00	0	542.04	0.00
5.20	0.00	0	542.04	0.00
5.40	0.00	0	542.04	0.00
5.60	0.00	0	542.04	0.00
5.80	0.00	0	542.04	0.00
6.00	0.00	0	542.04	0.00
6.20	0.00	0	542.04	0.00
6.40	0.00	0	542.04	0.00
6.60	0.00	0	542.04	0.00
6.80	0.00	0	542.04	0.00
7.00	0.00	0	542.04	0.00
7.20	0.00	0	542.04	0.00
7.40	0.00	0	542.04	0.00
7.60	0.00	0	542.04	0.00
7.80	0.00	0	542.04	0.00
8.00	0.00	0	542.04	0.00
8.20	0.00	0	542.04	0.00
8.40	0.00	0	542.04	0.00
8.60	0.00	0	542.04	0.00
8.80	0.00	0	542.04	0.00
9.00	0.00	0	542.04	0.00
9.20	0.00	0	542.04	0.00
9.40	0.00	0	542.04	0.00
9.60	0.00	0	542.04	0.00
9.80	0.00	0	542.04	0.00
10.00	0.00	0	542.04	0.00
10.20	0.00	0	542.04	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	542.04	0.00
10.60	0.00	0	542.04	0.00
10.80	0.00	0	542.04	0.00
11.00	0.00	0	542.04	0.00
11.20	0.00	0	542.04	0.00
11.40	0.00	0	542.04	0.00
11.60	0.00	0	542.04	0.00
11.80	0.00	0	542.04	0.00
12.00	0.00	0	542.04	0.00
12.20	0.00	0	542.04	0.00
12.40	0.00	0	542.04	0.00
12.60	0.00	0	542.04	0.00
12.80	0.00	0	542.04	0.00
13.00	0.00	0	542.04	0.00
13.20	0.00	0	542.04	0.00
13.40	0.00	0	542.04	0.00
13.60	0.00	0	542.04	0.00
13.80	0.00	0	542.04	0.00
14.00	0.00	0	542.04	0.00
14.20	0.00	0	542.04	0.00
14.40	0.00	0	542.04	0.00
14.60	0.00	0	542.04	0.00
14.80	0.00	0	542.04	0.00
15.00	0.00	0	542.04	0.00
15.20	0.00	0	542.04	0.00
15.40	0.00	0	542.04	0.00
15.60	0.00	0	542.04	0.00
15.80	0.00	0	542.04	0.00
16.00	0.00	0	542.04	0.00
16.20	0.00	0	542.04	0.00
16.40	0.00	0	542.04	0.00
16.60	0.00	0	542.04	0.00
16.80	0.00	0	542.04	0.00
17.00	0.00	0	542.04	0.00
17.20	0.00	0	542.04	0.00
17.40	0.00	0	542.04	0.00
17.60	0.00	0	542.04	0.00
17.80	0.00	0	542.04	0.00
18.00	0.00	0	542.04	0.00
18.20	0.00	0	542.04	0.00
18.40	0.00	0	542.04	0.00
18.60	0.00	0	542.04	0.00
18.80	0.00	0	542.04	0.00
19.00	0.00	0	542.04	0.00
19.20	0.00	0	542.04	0.00
19.40	0.00	0	542.04	0.00
19.60	0.00	0	542.04	0.00
19.80	0.00	0	542.04	0.00
20.00	0.00	0	542.04	0.00
20.20	0.00	0	542.04	0.00
20.40	0.00	0	542.04	0.00
20.60	0.00	0	542.04	0.00

Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	542.04	0.00
21.00	0.00	0	542.04	0.00
21.20	0.00	0	542.04	0.00
21.40	0.00	0	542.04	0.00
21.60	0.00	0	542.04	0.00
21.80	0.00	0	542.04	0.00
22.00	0.00	0	542.04	0.00
22.20	0.00	0	542.04	0.00
22.40	0.00	0	542.04	0.00
22.60	0.00	0	542.04	0.00
22.80	0.00	0	542.04	0.00
23.00	0.00	0	542.04	0.00
23.20	0.00	0	542.04	0.00
23.40	0.00	0	542.04	0.00
23.60	0.00	0	542.04	0.00
23.80	0.00	0	542.04	0.00
24.00	0.00	0	542.04	0.00
24.20	0.00	0	542.04	0.00
24.40	0.00	0	542.04	0.00
24.60	0.00	0	542.04	0.00
24.80	0.00	0	542.04	0.00
25.00	0.00	0	542.04	0.00
25.20	0.00	0	542.04	0.00
25.40	0.00	0	542.04	0.00
25.60	0.00	0	542.04	0.00
25.80	0.00	0	542.04	0.00
26.00	0.00	0	542.04	0.00
26.20	0.00	0	542.04	0.00
26.40	0.00	0	542.04	0.00
26.60	0.00	0	542.04	0.00
26.80	0.00	0	542.04	0.00
27.00	0.00	0	542.04	0.00
27.20	0.00	0	542.04	0.00
27.40	0.00	0	542.04	0.00
27.60	0.00	0	542.04	0.00
27.80	0.00	0	542.04	0.00
28.00	0.00	0	542.04	0.00
28.20	0.00	0	542.04	0.00
28.40	0.00	0	542.04	0.00
28.60	0.00	0	542.04	0.00
28.80	0.00	0	542.04	0.00
29.00	0.00	0	542.04	0.00
29.20	0.00	0	542.04	0.00
29.40	0.00	0	542.04	0.00
29.60	0.00	0	542.04	0.00
29.80	0.00	0	542.04	0.00
30.00	0.00	0	542.04	0.00
30.20	0.00	0	542.04	0.00
30.40	0.00	0	542.04	0.00
30.60	0.00	0	542.04	0.00
30.80	0.00	0	542.04	0.00
31.00	0.00	0	542.04	0.00



**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	542.04	0.00
31.40	0.00	0	542.04	0.00
31.60	0.00	0	542.04	0.00
31.80	0.00	0	542.04	0.00
32.00	0.00	0	542.04	0.00
32.20	0.00	0	542.04	0.00
32.40	0.00	0	542.04	0.00
32.60	0.00	0	542.04	0.00
32.80	0.00	0	542.04	0.00
33.00	0.00	0	542.04	0.00
33.20	0.00	0	542.04	0.00
33.40	0.00	0	542.04	0.00
33.60	0.00	0	542.04	0.00
33.80	0.00	0	542.04	0.00
34.00	0.00	0	542.04	0.00
34.20	0.00	0	542.04	0.00
34.40	0.00	0	542.04	0.00
34.60	0.00	0	542.04	0.00
34.80	0.00	0	542.04	0.00
35.00	0.00	0	542.04	0.00
35.20	0.00	0	542.04	0.00
35.40	0.00	0	542.04	0.00
35.60	0.00	0	542.04	0.00
35.80	0.00	0	542.04	0.00
36.00	0.00	0	542.04	0.00
36.20	0.00	0	542.04	0.00
36.40	0.00	0	542.04	0.00
36.60	0.00	0	542.04	0.00
36.80	0.00	0	542.04	0.00
37.00	0.00	0	542.04	0.00
37.20	0.00	0	542.04	0.00
37.40	0.00	0	542.04	0.00
37.60	0.00	0	542.04	0.00
37.80	0.00	0	542.04	0.00
38.00	0.00	0	542.04	0.00
38.20	0.00	0	542.04	0.00
38.40	0.00	0	542.04	0.00
38.60	0.00	0	542.04	0.00
38.80	0.00	0	542.04	0.00
39.00	0.00	0	542.04	0.00
39.20	0.00	0	542.04	0.00
39.40	0.00	0	542.04	0.00
39.60	0.00	0	542.04	0.00
39.80	0.00	0	542.04	0.00
40.00	0.00	0	542.04	0.00
40.20	0.00	0	542.04	0.00
40.40	0.00	0	542.04	0.00
40.60	0.00	0	542.04	0.00
40.80	0.00	0	542.04	0.00
41.00	0.00	0	542.04	0.00
41.20	0.00	0	542.04	0.00
41.40	0.00	0	542.04	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	542.04	0.00
41.80	0.00	0	542.04	0.00
42.00	0.00	0	542.04	0.00
42.20	0.00	0	542.04	0.00
42.40	0.00	0	542.04	0.00
42.60	0.00	0	542.04	0.00
42.80	0.00	0	542.04	0.00
43.00	0.00	0	542.04	0.00
43.20	0.00	0	542.04	0.00
43.40	0.00	0	542.04	0.00
43.60	0.00	0	542.04	0.00
43.80	0.00	0	542.04	0.00
44.00	0.00	0	542.04	0.00
44.20	0.00	0	542.04	0.00
44.40	0.00	0	542.04	0.00
44.60	0.00	0	542.04	0.00
44.80	0.00	0	542.04	0.00
45.00	0.00	0	542.04	0.00
45.20	0.00	0	542.04	0.00
45.40	0.00	0	542.04	0.00
45.60	0.00	0	542.04	0.00
45.80	0.00	0	542.04	0.00
46.00	0.00	0	542.04	0.00
46.20	0.00	0	542.04	0.00
46.40	0.00	0	542.04	0.00
46.60	0.00	0	542.04	0.00
46.80	0.00	0	542.04	0.00
47.00	0.00	0	542.04	0.00
47.20	0.00	0	542.04	0.00
47.40	0.00	0	542.04	0.00
47.60	0.00	0	542.04	0.00
47.80	0.00	0	542.04	0.00
48.00	0.00	0	542.04	0.00
48.20	0.00	0	542.04	0.00
48.40	0.00	0	542.04	0.00
48.60	0.00	0	542.04	0.00
48.80	0.00	0	542.04	0.00
49.00	0.00	0	542.04	0.00
49.20	0.00	0	542.04	0.00
49.40	0.00	0	542.04	0.00
49.60	0.00	0	542.04	0.00
49.80	0.00	0	542.04	0.00
50.00	0.00	0	542.04	0.00
50.20	0.00	0	542.04	0.00
50.40	0.00	0	542.04	0.00
50.60	0.00	0	542.04	0.00
50.80	0.00	0	542.04	0.00
51.00	0.00	0	542.04	0.00
51.20	0.00	0	542.04	0.00
51.40	0.00	0	542.04	0.00
51.60	0.00	0	542.04	0.00
51.80	0.00	0	542.04	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.04	0.00
52.20	0.00	0	542.04	0.00
52.40	0.00	0	542.04	0.00
52.60	0.00	0	542.04	0.00
52.80	0.00	0	542.04	0.00
53.00	0.00	0	542.04	0.00
53.20	0.00	0	542.04	0.00
53.40	0.00	0	542.04	0.00
53.60	0.00	0	542.04	0.00
53.80	0.00	0	542.04	0.00
54.00	0.00	0	542.04	0.00
54.20	0.00	0	542.04	0.00
54.40	0.00	0	542.04	0.00
54.60	0.00	0	542.04	0.00
54.80	0.00	0	542.04	0.00
55.00	0.00	0	542.04	0.00
55.20	0.00	0	542.04	0.00
55.40	0.00	0	542.04	0.00
55.60	0.00	0	542.04	0.00
55.80	0.00	0	542.04	0.00
56.00	0.00	0	542.04	0.00
56.20	0.00	0	542.04	0.00
56.40	0.00	0	542.04	0.00
56.60	0.00	0	542.04	0.00
56.80	0.00	0	542.04	0.00
57.00	0.00	0	542.04	0.00
57.20	0.00	0	542.04	0.00
57.40	0.00	0	542.04	0.00
57.60	0.00	0	542.04	0.00
57.80	0.00	0	542.04	0.00
58.00	0.00	0	542.04	0.00
58.20	0.00	0	542.04	0.00
58.40	0.00	0	542.04	0.00
58.60	0.00	0	542.04	0.00
58.80	0.00	0	542.04	0.00
59.00	0.00	0	542.04	0.00
59.20	0.00	0	542.04	0.00
59.40	0.00	0	542.04	0.00
59.60	0.00	0	542.04	0.00
59.80	0.00	0	542.04	0.00
60.00	0.00	0	542.04	0.00
60.20	0.00	0	542.04	0.00
60.40	0.00	0	542.04	0.00
60.60	0.00	0	542.04	0.00
60.80	0.00	0	542.04	0.00
61.00	0.00	0	542.04	0.00
61.20	0.00	0	542.04	0.00
61.40	0.00	0	542.04	0.00
61.60	0.00	0	542.04	0.00
61.80	0.00	0	542.04	0.00
62.00	0.00	0	542.04	0.00
62.20	0.00	0	542.04	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.04	0.00
62.60	0.00	0	542.04	0.00
62.80	0.00	0	542.04	0.00
63.00	0.00	0	542.04	0.00
63.20	0.00	0	542.04	0.00
63.40	0.00	0	542.04	0.00
63.60	0.00	0	542.04	0.00
63.80	0.00	0	542.04	0.00
64.00	0.00	0	542.04	0.00
64.20	0.00	0	542.04	0.00
64.40	0.00	0	542.04	0.00
64.60	0.00	0	542.04	0.00
64.80	0.00	0	542.04	0.00
65.00	0.00	0	542.04	0.00
65.20	0.00	0	542.04	0.00
65.40	0.00	0	542.04	0.00
65.60	0.00	0	542.04	0.00
65.80	0.00	0	542.04	0.00
66.00	0.00	0	542.04	0.00
66.20	0.00	0	542.04	0.00
66.40	0.00	0	542.04	0.00
66.60	0.00	0	542.04	0.00
66.80	0.00	0	542.04	0.00
67.00	0.00	0	542.04	0.00
67.20	0.00	0	542.04	0.00
67.40	0.00	0	542.04	0.00
67.60	0.00	0	542.04	0.00
67.80	0.00	0	542.04	0.00
68.00	0.00	0	542.04	0.00
68.20	0.00	0	542.04	0.00
68.40	0.00	0	542.04	0.00
68.60	0.00	0	542.04	0.00
68.80	0.00	0	542.04	0.00
69.00	0.00	0	542.04	0.00
69.20	0.00	0	542.04	0.00
69.40	0.00	0	542.04	0.00
69.60	0.00	0	542.04	0.00
69.80	0.00	0	542.04	0.00
70.00	0.00	0	542.04	0.00
70.20	0.00	0	542.04	0.00
70.40	0.00	0	542.04	0.00
70.60	0.00	0	542.04	0.00
70.80	0.00	0	542.04	0.00
71.00	0.00	0	542.04	0.00
71.20	0.00	0	542.04	0.00
71.40	0.00	0	542.04	0.00
71.60	0.00	0	542.04	0.00
71.80	0.00	0	542.04	0.00
72.00	0.00	0	542.04	0.00

**Stage-Area-Storage for Pond PV-3: Pervious Pavers 3**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.04	2,400	0	542.56	2,400	499
542.05	2,400	10	542.57	2,400	509
542.06	2,400	19	542.58	2,400	518
542.07	2,400	29	542.59	2,400	528
542.08	2,400	38	542.60	2,400	538
542.09	2,400	48	542.61	2,400	547
542.10	2,400	58	542.62	2,400	557
542.11	2,400	67	542.63	2,400	566
542.12	2,400	77	542.64	2,400	576
542.13	2,400	86	542.65	2,400	586
542.14	2,400	96	542.66	2,400	595
542.15	2,400	106	542.67	2,400	605
542.16	2,400	115	542.68	2,400	614
542.17	2,400	125	542.69	2,400	624
542.18	2,400	134	542.70	2,400	634
542.19	2,400	144	542.71	2,400	643
542.20	2,400	154	542.72	2,400	653
542.21	2,400	163	542.73	2,400	662
542.22	2,400	173	542.74	2,400	672
542.23	2,400	182	542.75	2,400	682
542.24	2,400	192	542.76	2,400	691
542.25	2,400	202	542.77	2,400	701
542.26	2,400	211	542.78	2,400	710
542.27	2,400	221	542.79	2,400	720
542.28	2,400	230	542.80	2,400	730
542.29	2,400	240	542.81	2,400	739
542.30	2,400	250	542.82	2,400	749
542.31	2,400	259	542.83	2,400	758
542.32	2,400	269	542.84	2,400	768
542.33	2,400	278	542.85	2,400	778
542.34	2,400	288	542.86	2,400	787
542.35	2,400	298	542.87	2,400	797
542.36	2,400	307	542.88	2,400	806
542.37	2,400	317	542.89	2,400	816
542.38	2,400	326	542.90	2,400	826
542.39	2,400	336	542.91	2,400	835
542.40	2,400	346	542.92	2,400	845
542.41	2,400	355	542.93	2,400	854
542.42	2,400	365	542.94	2,400	864
542.43	2,400	374	542.95	2,400	874
542.44	2,400	384	542.96	2,400	883
542.45	2,400	394	542.97	2,400	893
542.46	2,400	403	542.98	2,400	902
542.47	2,400	413	542.99	2,400	912
542.48	2,400	422	543.00	2,400	922
542.49	2,400	432	543.01	2,400	931
542.50	2,400	442	543.02	2,400	941
542.51	2,400	451	543.03	2,400	950
542.52	2,400	461	543.04	2,400	960
542.53	2,400	470	543.05	2,400	970
542.54	2,400	480	543.06	2,400	979
542.55	2,400	490	543.07	2,400	989

**Stage-Area-Storage for Pond PV-3: Pervious Pavers 3 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.08	2,400	998	543.60	2,400	1,498
543.09	2,400	1,008	543.61	2,400	1,507
543.10	2,400	1,018	543.62	2,400	1,517
543.11	2,400	1,027	543.63	2,400	1,526
543.12	2,400	1,037	543.64	2,400	1,536
543.13	2,400	1,046	543.65	2,400	1,546
543.14	2,400	1,056	543.66	2,400	1,555
543.15	2,400	1,066	543.67	2,400	1,565
543.16	2,400	1,075	543.68	2,400	1,574
543.17	2,400	1,085	543.69	2,400	1,584
543.18	2,400	1,094	543.70	2,400	1,594
543.19	2,400	1,104	543.71	2,400	1,603
543.20	2,400	1,114	543.72	2,400	1,613
543.21	2,400	1,123	543.73	2,400	1,622
543.22	2,400	1,133	543.74	2,400	1,632
543.23	2,400	1,142	543.75	2,400	1,642
543.24	2,400	1,152	543.76	2,400	1,651
543.25	2,400	1,162	543.77	2,400	1,661
543.26	2,400	1,171	543.78	2,400	1,670
543.27	2,400	1,181	543.79	2,400	1,680
543.28	2,400	1,190	543.80	2,400	1,690
543.29	2,400	1,200	543.81	2,400	1,699
543.30	2,400	1,210	543.82	2,400	1,709
543.31	2,400	1,219	543.83	2,400	<b>1,718</b>
543.32	2,400	1,229			
543.33	2,400	1,238			
543.34	2,400	1,248			
543.35	2,400	1,258			
543.36	2,400	1,267			
543.37	2,400	1,277			
543.38	2,400	1,286			
543.39	2,400	1,296			
543.40	2,400	1,306			
543.41	2,400	1,315			
543.42	2,400	1,325			
543.43	2,400	1,334			
543.44	2,400	1,344			
543.45	2,400	1,354			
543.46	2,400	1,363			
543.47	2,400	1,373			
543.48	2,400	1,382			
543.49	2,400	1,392			
543.50	2,400	1,402			
543.51	2,400	1,411			
543.52	2,400	1,421			
543.53	2,400	1,430			
543.54	2,400	1,440			
543.55	2,400	1,450			
543.56	2,400	1,459			
543.57	2,400	1,469			
543.58	2,400	1,478			
543.59	2,400	1,488			

**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=42)

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 0.61" for WQV event  
 Inflow = 0.24 cfs @ 1.10 hrs, Volume= 281 cf  
 Outflow = 0.18 cfs @ 1.13 hrs, Volume= 282 cf, Atten= 24%, Lag= 2.2 min  
 Primary = 0.18 cfs @ 1.13 hrs, Volume= 282 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.10' @ 1.13 hrs Surf.Area= 2,211 sf Storage= 17 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 0.5 min ( 71.2 - 70.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.08'	2,432 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,080 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.08	2,211	0	0
544.83	2,211	6,080	6,080

Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.75'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.18 cfs @ 1.13 hrs HW=542.10' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.18 cfs of 0.96 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.18 cfs @ 2.06 fps)

**Hydrograph for Pond PV-4: Pervious Pavers 4**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.08	0.00
0.20	0.00	0	542.08	0.00
0.40	0.00	0	542.08	0.00
0.60	0.01	0	542.08	0.01
0.80	0.02	0	542.08	0.02
1.00	<b>0.16</b>	<b>0</b>	<b>542.08</b>	<b>0.16</b>
1.20	<b>0.10</b>	<b>6</b>	<b>542.09</b>	<b>0.17</b>
1.40	0.04	0	542.08	0.07
1.60	0.03	0	542.08	0.06
1.80	0.02	0	542.08	0.04
2.00	0.01	0	542.08	0.02
2.20	0.00	0	542.08	0.00
2.40	0.00	0	542.08	0.00
2.60	0.00	0	542.08	0.00
2.80	0.00	0	542.08	0.00
3.00	0.00	0	542.08	0.00
3.20	0.00	0	542.08	0.00
3.40	0.00	0	542.08	0.00
3.60	0.00	0	542.08	0.00
3.80	0.00	0	542.08	0.00
4.00	0.00	0	542.08	0.00
4.20	0.00	0	542.08	0.00
4.40	0.00	0	542.08	0.00
4.60	0.00	0	542.08	0.00
4.80	0.00	0	542.08	0.00
5.00	0.00	0	542.08	0.00
5.20	0.00	0	542.08	0.00
5.40	0.00	0	542.08	0.00
5.60	0.00	0	542.08	0.00
5.80	0.00	0	542.08	0.00
6.00	0.00	0	542.08	0.00
6.20	0.00	0	542.08	0.00
6.40	0.00	0	542.08	0.00
6.60	0.00	0	542.08	0.00
6.80	0.00	0	542.08	0.00
7.00	0.00	0	542.08	0.00
7.20	0.00	0	542.08	0.00
7.40	0.00	0	542.08	0.00
7.60	0.00	0	542.08	0.00
7.80	0.00	0	542.08	0.00
8.00	0.00	0	542.08	0.00
8.20	0.00	0	542.08	0.00
8.40	0.00	0	542.08	0.00
8.60	0.00	0	542.08	0.00
8.80	0.00	0	542.08	0.00
9.00	0.00	0	542.08	0.00
9.20	0.00	0	542.08	0.00
9.40	0.00	0	542.08	0.00
9.60	0.00	0	542.08	0.00
9.80	0.00	0	542.08	0.00
10.00	0.00	0	542.08	0.00
10.20	0.00	0	542.08	0.00



**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	542.08	0.00
10.60	0.00	0	542.08	0.00
10.80	0.00	0	542.08	0.00
11.00	0.00	0	542.08	0.00
11.20	0.00	0	542.08	0.00
11.40	0.00	0	542.08	0.00
11.60	0.00	0	542.08	0.00
11.80	0.00	0	542.08	0.00
12.00	0.00	0	542.08	0.00
12.20	0.00	0	542.08	0.00
12.40	0.00	0	542.08	0.00
12.60	0.00	0	542.08	0.00
12.80	0.00	0	542.08	0.00
13.00	0.00	0	542.08	0.00
13.20	0.00	0	542.08	0.00
13.40	0.00	0	542.08	0.00
13.60	0.00	0	542.08	0.00
13.80	0.00	0	542.08	0.00
14.00	0.00	0	542.08	0.00
14.20	0.00	0	542.08	0.00
14.40	0.00	0	542.08	0.00
14.60	0.00	0	542.08	0.00
14.80	0.00	0	542.08	0.00
15.00	0.00	0	542.08	0.00
15.20	0.00	0	542.08	0.00
15.40	0.00	0	542.08	0.00
15.60	0.00	0	542.08	0.00
15.80	0.00	0	542.08	0.00
16.00	0.00	0	542.08	0.00
16.20	0.00	0	542.08	0.00
16.40	0.00	0	542.08	0.00
16.60	0.00	0	542.08	0.00
16.80	0.00	0	542.08	0.00
17.00	0.00	0	542.08	0.00
17.20	0.00	0	542.08	0.00
17.40	0.00	0	542.08	0.00
17.60	0.00	0	542.08	0.00
17.80	0.00	0	542.08	0.00
18.00	0.00	0	542.08	0.00
18.20	0.00	0	542.08	0.00
18.40	0.00	0	542.08	0.00
18.60	0.00	0	542.08	0.00
18.80	0.00	0	542.08	0.00
19.00	0.00	0	542.08	0.00
19.20	0.00	0	542.08	0.00
19.40	0.00	0	542.08	0.00
19.60	0.00	0	542.08	0.00
19.80	0.00	0	542.08	0.00
20.00	0.00	0	542.08	0.00
20.20	0.00	0	542.08	0.00
20.40	0.00	0	542.08	0.00
20.60	0.00	0	542.08	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	542.08	0.00
21.00	0.00	0	542.08	0.00
21.20	0.00	0	542.08	0.00
21.40	0.00	0	542.08	0.00
21.60	0.00	0	542.08	0.00
21.80	0.00	0	542.08	0.00
22.00	0.00	0	542.08	0.00
22.20	0.00	0	542.08	0.00
22.40	0.00	0	542.08	0.00
22.60	0.00	0	542.08	0.00
22.80	0.00	0	542.08	0.00
23.00	0.00	0	542.08	0.00
23.20	0.00	0	542.08	0.00
23.40	0.00	0	542.08	0.00
23.60	0.00	0	542.08	0.00
23.80	0.00	0	542.08	0.00
24.00	0.00	0	542.08	0.00
24.20	0.00	0	542.08	0.00
24.40	0.00	0	542.08	0.00
24.60	0.00	0	542.08	0.00
24.80	0.00	0	542.08	0.00
25.00	0.00	0	542.08	0.00
25.20	0.00	0	542.08	0.00
25.40	0.00	0	542.08	0.00
25.60	0.00	0	542.08	0.00
25.80	0.00	0	542.08	0.00
26.00	0.00	0	542.08	0.00
26.20	0.00	0	542.08	0.00
26.40	0.00	0	542.08	0.00
26.60	0.00	0	542.08	0.00
26.80	0.00	0	542.08	0.00
27.00	0.00	0	542.08	0.00
27.20	0.00	0	542.08	0.00
27.40	0.00	0	542.08	0.00
27.60	0.00	0	542.08	0.00
27.80	0.00	0	542.08	0.00
28.00	0.00	0	542.08	0.00
28.20	0.00	0	542.08	0.00
28.40	0.00	0	542.08	0.00
28.60	0.00	0	542.08	0.00
28.80	0.00	0	542.08	0.00
29.00	0.00	0	542.08	0.00
29.20	0.00	0	542.08	0.00
29.40	0.00	0	542.08	0.00
29.60	0.00	0	542.08	0.00
29.80	0.00	0	542.08	0.00
30.00	0.00	0	542.08	0.00
30.20	0.00	0	542.08	0.00
30.40	0.00	0	542.08	0.00
30.60	0.00	0	542.08	0.00
30.80	0.00	0	542.08	0.00
31.00	0.00	0	542.08	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	542.08	0.00
31.40	0.00	0	542.08	0.00
31.60	0.00	0	542.08	0.00
31.80	0.00	0	542.08	0.00
32.00	0.00	0	542.08	0.00
32.20	0.00	0	542.08	0.00
32.40	0.00	0	542.08	0.00
32.60	0.00	0	542.08	0.00
32.80	0.00	0	542.08	0.00
33.00	0.00	0	542.08	0.00
33.20	0.00	0	542.08	0.00
33.40	0.00	0	542.08	0.00
33.60	0.00	0	542.08	0.00
33.80	0.00	0	542.08	0.00
34.00	0.00	0	542.08	0.00
34.20	0.00	0	542.08	0.00
34.40	0.00	0	542.08	0.00
34.60	0.00	0	542.08	0.00
34.80	0.00	0	542.08	0.00
35.00	0.00	0	542.08	0.00
35.20	0.00	0	542.08	0.00
35.40	0.00	0	542.08	0.00
35.60	0.00	0	542.08	0.00
35.80	0.00	0	542.08	0.00
36.00	0.00	0	542.08	0.00
36.20	0.00	0	542.08	0.00
36.40	0.00	0	542.08	0.00
36.60	0.00	0	542.08	0.00
36.80	0.00	0	542.08	0.00
37.00	0.00	0	542.08	0.00
37.20	0.00	0	542.08	0.00
37.40	0.00	0	542.08	0.00
37.60	0.00	0	542.08	0.00
37.80	0.00	0	542.08	0.00
38.00	0.00	0	542.08	0.00
38.20	0.00	0	542.08	0.00
38.40	0.00	0	542.08	0.00
38.60	0.00	0	542.08	0.00
38.80	0.00	0	542.08	0.00
39.00	0.00	0	542.08	0.00
39.20	0.00	0	542.08	0.00
39.40	0.00	0	542.08	0.00
39.60	0.00	0	542.08	0.00
39.80	0.00	0	542.08	0.00
40.00	0.00	0	542.08	0.00
40.20	0.00	0	542.08	0.00
40.40	0.00	0	542.08	0.00
40.60	0.00	0	542.08	0.00
40.80	0.00	0	542.08	0.00
41.00	0.00	0	542.08	0.00
41.20	0.00	0	542.08	0.00
41.40	0.00	0	542.08	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	542.08	0.00
41.80	0.00	0	542.08	0.00
42.00	0.00	0	542.08	0.00
42.20	0.00	0	542.08	0.00
42.40	0.00	0	542.08	0.00
42.60	0.00	0	542.08	0.00
42.80	0.00	0	542.08	0.00
43.00	0.00	0	542.08	0.00
43.20	0.00	0	542.08	0.00
43.40	0.00	0	542.08	0.00
43.60	0.00	0	542.08	0.00
43.80	0.00	0	542.08	0.00
44.00	0.00	0	542.08	0.00
44.20	0.00	0	542.08	0.00
44.40	0.00	0	542.08	0.00
44.60	0.00	0	542.08	0.00
44.80	0.00	0	542.08	0.00
45.00	0.00	0	542.08	0.00
45.20	0.00	0	542.08	0.00
45.40	0.00	0	542.08	0.00
45.60	0.00	0	542.08	0.00
45.80	0.00	0	542.08	0.00
46.00	0.00	0	542.08	0.00
46.20	0.00	0	542.08	0.00
46.40	0.00	0	542.08	0.00
46.60	0.00	0	542.08	0.00
46.80	0.00	0	542.08	0.00
47.00	0.00	0	542.08	0.00
47.20	0.00	0	542.08	0.00
47.40	0.00	0	542.08	0.00
47.60	0.00	0	542.08	0.00
47.80	0.00	0	542.08	0.00
48.00	0.00	0	542.08	0.00
48.20	0.00	0	542.08	0.00
48.40	0.00	0	542.08	0.00
48.60	0.00	0	542.08	0.00
48.80	0.00	0	542.08	0.00
49.00	0.00	0	542.08	0.00
49.20	0.00	0	542.08	0.00
49.40	0.00	0	542.08	0.00
49.60	0.00	0	542.08	0.00
49.80	0.00	0	542.08	0.00
50.00	0.00	0	542.08	0.00
50.20	0.00	0	542.08	0.00
50.40	0.00	0	542.08	0.00
50.60	0.00	0	542.08	0.00
50.80	0.00	0	542.08	0.00
51.00	0.00	0	542.08	0.00
51.20	0.00	0	542.08	0.00
51.40	0.00	0	542.08	0.00
51.60	0.00	0	542.08	0.00
51.80	0.00	0	542.08	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.08	0.00
52.20	0.00	0	542.08	0.00
52.40	0.00	0	542.08	0.00
52.60	0.00	0	542.08	0.00
52.80	0.00	0	542.08	0.00
53.00	0.00	0	542.08	0.00
53.20	0.00	0	542.08	0.00
53.40	0.00	0	542.08	0.00
53.60	0.00	0	542.08	0.00
53.80	0.00	0	542.08	0.00
54.00	0.00	0	542.08	0.00
54.20	0.00	0	542.08	0.00
54.40	0.00	0	542.08	0.00
54.60	0.00	0	542.08	0.00
54.80	0.00	0	542.08	0.00
55.00	0.00	0	542.08	0.00
55.20	0.00	0	542.08	0.00
55.40	0.00	0	542.08	0.00
55.60	0.00	0	542.08	0.00
55.80	0.00	0	542.08	0.00
56.00	0.00	0	542.08	0.00
56.20	0.00	0	542.08	0.00
56.40	0.00	0	542.08	0.00
56.60	0.00	0	542.08	0.00
56.80	0.00	0	542.08	0.00
57.00	0.00	0	542.08	0.00
57.20	0.00	0	542.08	0.00
57.40	0.00	0	542.08	0.00
57.60	0.00	0	542.08	0.00
57.80	0.00	0	542.08	0.00
58.00	0.00	0	542.08	0.00
58.20	0.00	0	542.08	0.00
58.40	0.00	0	542.08	0.00
58.60	0.00	0	542.08	0.00
58.80	0.00	0	542.08	0.00
59.00	0.00	0	542.08	0.00
59.20	0.00	0	542.08	0.00
59.40	0.00	0	542.08	0.00
59.60	0.00	0	542.08	0.00
59.80	0.00	0	542.08	0.00
60.00	0.00	0	542.08	0.00
60.20	0.00	0	542.08	0.00
60.40	0.00	0	542.08	0.00
60.60	0.00	0	542.08	0.00
60.80	0.00	0	542.08	0.00
61.00	0.00	0	542.08	0.00
61.20	0.00	0	542.08	0.00
61.40	0.00	0	542.08	0.00
61.60	0.00	0	542.08	0.00
61.80	0.00	0	542.08	0.00
62.00	0.00	0	542.08	0.00
62.20	0.00	0	542.08	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.08	0.00
62.60	0.00	0	542.08	0.00
62.80	0.00	0	542.08	0.00
63.00	0.00	0	542.08	0.00
63.20	0.00	0	542.08	0.00
63.40	0.00	0	542.08	0.00
63.60	0.00	0	542.08	0.00
63.80	0.00	0	542.08	0.00
64.00	0.00	0	542.08	0.00
64.20	0.00	0	542.08	0.00
64.40	0.00	0	542.08	0.00
64.60	0.00	0	542.08	0.00
64.80	0.00	0	542.08	0.00
65.00	0.00	0	542.08	0.00
65.20	0.00	0	542.08	0.00
65.40	0.00	0	542.08	0.00
65.60	0.00	0	542.08	0.00
65.80	0.00	0	542.08	0.00
66.00	0.00	0	542.08	0.00
66.20	0.00	0	542.08	0.00
66.40	0.00	0	542.08	0.00
66.60	0.00	0	542.08	0.00
66.80	0.00	0	542.08	0.00
67.00	0.00	0	542.08	0.00
67.20	0.00	0	542.08	0.00
67.40	0.00	0	542.08	0.00
67.60	0.00	0	542.08	0.00
67.80	0.00	0	542.08	0.00
68.00	0.00	0	542.08	0.00
68.20	0.00	0	542.08	0.00
68.40	0.00	0	542.08	0.00
68.60	0.00	0	542.08	0.00
68.80	0.00	0	542.08	0.00
69.00	0.00	0	542.08	0.00
69.20	0.00	0	542.08	0.00
69.40	0.00	0	542.08	0.00
69.60	0.00	0	542.08	0.00
69.80	0.00	0	542.08	0.00
70.00	0.00	0	542.08	0.00
70.20	0.00	0	542.08	0.00
70.40	0.00	0	542.08	0.00
70.60	0.00	0	542.08	0.00
70.80	0.00	0	542.08	0.00
71.00	0.00	0	542.08	0.00
71.20	0.00	0	542.08	0.00
71.40	0.00	0	542.08	0.00
71.60	0.00	0	542.08	0.00
71.80	0.00	0	542.08	0.00
72.00	0.00	0	542.08	0.00

**Stage-Area-Storage for Pond PV-4: Pervious Pavers 4**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.08	2,211	0	542.60	2,211	460
542.09	2,211	9	542.61	2,211	469
542.10	2,211	18	542.62	2,211	478
542.11	2,211	27	542.63	2,211	486
542.12	2,211	35	542.64	2,211	495
542.13	2,211	44	542.65	2,211	504
542.14	2,211	53	542.66	2,211	513
542.15	2,211	62	542.67	2,211	522
542.16	2,211	71	542.68	2,211	531
542.17	2,211	80	542.69	2,211	539
542.18	2,211	88	542.70	2,211	548
542.19	2,211	97	542.71	2,211	557
542.20	2,211	106	542.72	2,211	566
542.21	2,211	115	542.73	2,211	575
542.22	2,211	124	542.74	2,211	584
542.23	2,211	133	542.75	2,211	593
542.24	2,211	142	542.76	2,211	601
542.25	2,211	150	542.77	2,211	610
542.26	2,211	159	542.78	2,211	619
542.27	2,211	168	542.79	2,211	628
542.28	2,211	177	542.80	2,211	637
542.29	2,211	186	542.81	2,211	646
542.30	2,211	195	542.82	2,211	654
542.31	2,211	203	542.83	2,211	663
542.32	2,211	212	542.84	2,211	672
542.33	2,211	221	542.85	2,211	681
542.34	2,211	230	542.86	2,211	690
542.35	2,211	239	542.87	2,211	699
542.36	2,211	248	542.88	2,211	708
542.37	2,211	256	542.89	2,211	716
542.38	2,211	265	542.90	2,211	725
542.39	2,211	274	542.91	2,211	734
542.40	2,211	283	542.92	2,211	743
542.41	2,211	292	542.93	2,211	752
542.42	2,211	301	542.94	2,211	761
542.43	2,211	310	542.95	2,211	769
542.44	2,211	318	542.96	2,211	778
542.45	2,211	327	542.97	2,211	787
542.46	2,211	336	542.98	2,211	796
542.47	2,211	345	542.99	2,211	805
542.48	2,211	354	543.00	2,211	814
542.49	2,211	363	543.01	2,211	822
542.50	2,211	371	543.02	2,211	831
542.51	2,211	380	543.03	2,211	840
542.52	2,211	389	543.04	2,211	849
542.53	2,211	398	543.05	2,211	858
542.54	2,211	407	543.06	2,211	867
542.55	2,211	416	543.07	2,211	876
542.56	2,211	425	543.08	2,211	884
542.57	2,211	433	543.09	2,211	893
542.58	2,211	442	543.10	2,211	902
542.59	2,211	451	543.11	2,211	911

**Stage-Area-Storage for Pond PV-4: Pervious Pavers 4 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.12	2,211	920	543.64	2,211	1,380
543.13	2,211	929	543.65	2,211	1,389
543.14	2,211	937	543.66	2,211	1,397
543.15	2,211	946	543.67	2,211	1,406
543.16	2,211	955	543.68	2,211	1,415
543.17	2,211	964	543.69	2,211	1,424
543.18	2,211	973	543.70	2,211	1,433
543.19	2,211	982	543.71	2,211	1,442
543.20	2,211	991	543.72	2,211	1,450
543.21	2,211	999	543.73	2,211	1,459
543.22	2,211	1,008	543.74	2,211	1,468
543.23	2,211	1,017	543.75	2,211	1,477
543.24	2,211	1,026	543.76	2,211	1,486
543.25	2,211	1,035	543.77	2,211	1,495
543.26	2,211	1,044	543.78	2,211	1,503
543.27	2,211	1,052	543.79	2,211	1,512
543.28	2,211	1,061	543.80	2,211	1,521
543.29	2,211	1,070	543.81	2,211	1,530
543.30	2,211	1,079	543.82	2,211	1,539
543.31	2,211	1,088	543.83	2,211	1,548
543.32	2,211	1,097	543.84	2,211	1,557
543.33	2,211	1,106	543.85	2,211	1,565
543.34	2,211	1,114	543.86	2,211	1,574
543.35	2,211	1,123	543.87	2,211	1,583
543.36	2,211	1,132	543.88	2,211	1,592
543.37	2,211	1,141	543.89	2,211	1,601
543.38	2,211	1,150	543.90	2,211	1,610
543.39	2,211	1,159	543.91	2,211	1,618
543.40	2,211	1,167	543.92	2,211	1,627
543.41	2,211	1,176	543.93	2,211	1,636
543.42	2,211	1,185	543.94	2,211	1,645
543.43	2,211	1,194	543.95	2,211	1,654
543.44	2,211	1,203	543.96	2,211	1,663
543.45	2,211	1,212	543.97	2,211	1,672
543.46	2,211	1,220	543.98	2,211	1,680
543.47	2,211	1,229	543.99	2,211	1,689
543.48	2,211	1,238	544.00	2,211	1,698
543.49	2,211	1,247	544.01	2,211	1,707
543.50	2,211	1,256	544.02	2,211	1,716
543.51	2,211	1,265	544.03	2,211	1,725
543.52	2,211	1,274	544.04	2,211	1,733
543.53	2,211	1,282	544.05	2,211	1,742
543.54	2,211	1,291	544.06	2,211	1,751
543.55	2,211	1,300	544.07	2,211	1,760
543.56	2,211	1,309	544.08	2,211	1,769
543.57	2,211	1,318	544.09	2,211	1,778
543.58	2,211	1,327	544.10	2,211	1,786
543.59	2,211	1,335	544.11	2,211	1,795
543.60	2,211	1,344	544.12	2,211	1,804
543.61	2,211	1,353	544.13	2,211	1,813
543.62	2,211	1,362	544.14	2,211	1,822
543.63	2,211	1,371	544.15	2,211	1,831



**Stage-Area-Storage for Pond PV-4: Pervious Pavers 4 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.16	2,211	1,840	544.68	2,211	2,299
544.17	2,211	1,848	544.69	2,211	2,308
544.18	2,211	1,857	544.70	2,211	2,317
544.19	2,211	1,866	544.71	2,211	2,326
544.20	2,211	1,875	544.72	2,211	2,335
544.21	2,211	1,884	544.73	2,211	2,344
544.22	2,211	1,893	544.74	2,211	2,353
544.23	2,211	1,901	544.75	2,211	2,361
544.24	2,211	1,910	544.76	2,211	2,370
544.25	2,211	1,919	544.77	2,211	2,379
544.26	2,211	1,928	544.78	2,211	2,388
544.27	2,211	1,937	544.79	2,211	2,397
544.28	2,211	1,946	544.80	2,211	2,406
544.29	2,211	1,955	544.81	2,211	2,414
544.30	2,211	1,963	544.82	2,211	2,423
544.31	2,211	1,972	544.83	2,211	<b>2,432</b>
544.32	2,211	1,981			
544.33	2,211	1,990			
544.34	2,211	1,999			
544.35	2,211	2,008			
544.36	2,211	2,016			
544.37	2,211	2,025			
544.38	2,211	2,034			
544.39	2,211	2,043			
544.40	2,211	2,052			
544.41	2,211	2,061			
544.42	2,211	2,069			
544.43	2,211	2,078			
544.44	2,211	2,087			
544.45	2,211	2,096			
544.46	2,211	2,105			
544.47	2,211	2,114			
544.48	2,211	2,123			
544.49	2,211	2,131			
544.50	2,211	2,140			
544.51	2,211	2,149			
544.52	2,211	2,158			
544.53	2,211	2,167			
544.54	2,211	2,176			
544.55	2,211	2,184			
544.56	2,211	2,193			
544.57	2,211	2,202			
544.58	2,211	2,211			
544.59	2,211	2,220			
544.60	2,211	2,229			
544.61	2,211	2,238			
544.62	2,211	2,246			
544.63	2,211	2,255			
544.64	2,211	2,264			
544.65	2,211	2,273			
544.66	2,211	2,282			
544.67	2,211	2,291			

**Summary for Pond PV-5: Pervious Pavers 5**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=35)

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 0.52" for WQV event  
 Inflow = 0.24 cfs @ 1.10 hrs, Volume= 274 cf  
 Outflow = 0.18 cfs @ 1.13 hrs, Volume= 274 cf, Atten= 25%, Lag= 1.8 min  
 Primary = 0.18 cfs @ 1.13 hrs, Volume= 274 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.25' @ 1.13 hrs Surf.Area= 2,400 sf Storage= 16 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 0.3 min ( 71.1 - 70.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.23'	1,536 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,840 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.23	2,400	0	0
543.83	2,400	3,840	3,840

Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.90'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.18 cfs @ 1.13 hrs HW=542.25' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.18 cfs of 0.48 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.18 cfs @ 2.04 fps)

**Hydrograph for Pond PV-5: Pervious Pavers 5**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.23	0.00
0.20	0.00	0	542.23	0.00
0.40	0.00	0	542.23	0.00
0.60	0.01	0	542.23	0.01
0.80	0.02	0	542.23	0.02
1.00	<b>0.16</b>	<b>0</b>	<b>542.23</b>	<b>0.16</b>
1.20	<b>0.09</b>	<b>1</b>	<b>542.23</b>	<b>0.17</b>
1.40	0.04	0	542.23	0.04
1.60	0.03	0	542.23	0.03
1.80	0.02	0	542.23	0.02
2.00	0.01	0	542.23	0.01
2.20	0.00	0	542.23	0.00
2.40	0.00	0	542.23	0.00
2.60	0.00	0	542.23	0.00
2.80	0.00	0	542.23	0.00
3.00	0.00	0	542.23	0.00
3.20	0.00	0	542.23	0.00
3.40	0.00	0	542.23	0.00
3.60	0.00	0	542.23	0.00
3.80	0.00	0	542.23	0.00
4.00	0.00	0	542.23	0.00
4.20	0.00	0	542.23	0.00
4.40	0.00	0	542.23	0.00
4.60	0.00	0	542.23	0.00
4.80	0.00	0	542.23	0.00
5.00	0.00	0	542.23	0.00
5.20	0.00	0	542.23	0.00
5.40	0.00	0	542.23	0.00
5.60	0.00	0	542.23	0.00
5.80	0.00	0	542.23	0.00
6.00	0.00	0	542.23	0.00
6.20	0.00	0	542.23	0.00
6.40	0.00	0	542.23	0.00
6.60	0.00	0	542.23	0.00
6.80	0.00	0	542.23	0.00
7.00	0.00	0	542.23	0.00
7.20	0.00	0	542.23	0.00
7.40	0.00	0	542.23	0.00
7.60	0.00	0	542.23	0.00
7.80	0.00	0	542.23	0.00
8.00	0.00	0	542.23	0.00
8.20	0.00	0	542.23	0.00
8.40	0.00	0	542.23	0.00
8.60	0.00	0	542.23	0.00
8.80	0.00	0	542.23	0.00
9.00	0.00	0	542.23	0.00
9.20	0.00	0	542.23	0.00
9.40	0.00	0	542.23	0.00
9.60	0.00	0	542.23	0.00
9.80	0.00	0	542.23	0.00
10.00	0.00	0	542.23	0.00
10.20	0.00	0	542.23	0.00

Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	542.23	0.00
10.60	0.00	0	542.23	0.00
10.80	0.00	0	542.23	0.00
11.00	0.00	0	542.23	0.00
11.20	0.00	0	542.23	0.00
11.40	0.00	0	542.23	0.00
11.60	0.00	0	542.23	0.00
11.80	0.00	0	542.23	0.00
12.00	0.00	0	542.23	0.00
12.20	0.00	0	542.23	0.00
12.40	0.00	0	542.23	0.00
12.60	0.00	0	542.23	0.00
12.80	0.00	0	542.23	0.00
13.00	0.00	0	542.23	0.00
13.20	0.00	0	542.23	0.00
13.40	0.00	0	542.23	0.00
13.60	0.00	0	542.23	0.00
13.80	0.00	0	542.23	0.00
14.00	0.00	0	542.23	0.00
14.20	0.00	0	542.23	0.00
14.40	0.00	0	542.23	0.00
14.60	0.00	0	542.23	0.00
14.80	0.00	0	542.23	0.00
15.00	0.00	0	542.23	0.00
15.20	0.00	0	542.23	0.00
15.40	0.00	0	542.23	0.00
15.60	0.00	0	542.23	0.00
15.80	0.00	0	542.23	0.00
16.00	0.00	0	542.23	0.00
16.20	0.00	0	542.23	0.00
16.40	0.00	0	542.23	0.00
16.60	0.00	0	542.23	0.00
16.80	0.00	0	542.23	0.00
17.00	0.00	0	542.23	0.00
17.20	0.00	0	542.23	0.00
17.40	0.00	0	542.23	0.00
17.60	0.00	0	542.23	0.00
17.80	0.00	0	542.23	0.00
18.00	0.00	0	542.23	0.00
18.20	0.00	0	542.23	0.00
18.40	0.00	0	542.23	0.00
18.60	0.00	0	542.23	0.00
18.80	0.00	0	542.23	0.00
19.00	0.00	0	542.23	0.00
19.20	0.00	0	542.23	0.00
19.40	0.00	0	542.23	0.00
19.60	0.00	0	542.23	0.00
19.80	0.00	0	542.23	0.00
20.00	0.00	0	542.23	0.00
20.20	0.00	0	542.23	0.00
20.40	0.00	0	542.23	0.00
20.60	0.00	0	542.23	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	542.23	0.00
21.00	0.00	0	542.23	0.00
21.20	0.00	0	542.23	0.00
21.40	0.00	0	542.23	0.00
21.60	0.00	0	542.23	0.00
21.80	0.00	0	542.23	0.00
22.00	0.00	0	542.23	0.00
22.20	0.00	0	542.23	0.00
22.40	0.00	0	542.23	0.00
22.60	0.00	0	542.23	0.00
22.80	0.00	0	542.23	0.00
23.00	0.00	0	542.23	0.00
23.20	0.00	0	542.23	0.00
23.40	0.00	0	542.23	0.00
23.60	0.00	0	542.23	0.00
23.80	0.00	0	542.23	0.00
24.00	0.00	0	542.23	0.00
24.20	0.00	0	542.23	0.00
24.40	0.00	0	542.23	0.00
24.60	0.00	0	542.23	0.00
24.80	0.00	0	542.23	0.00
25.00	0.00	0	542.23	0.00
25.20	0.00	0	542.23	0.00
25.40	0.00	0	542.23	0.00
25.60	0.00	0	542.23	0.00
25.80	0.00	0	542.23	0.00
26.00	0.00	0	542.23	0.00
26.20	0.00	0	542.23	0.00
26.40	0.00	0	542.23	0.00
26.60	0.00	0	542.23	0.00
26.80	0.00	0	542.23	0.00
27.00	0.00	0	542.23	0.00
27.20	0.00	0	542.23	0.00
27.40	0.00	0	542.23	0.00
27.60	0.00	0	542.23	0.00
27.80	0.00	0	542.23	0.00
28.00	0.00	0	542.23	0.00
28.20	0.00	0	542.23	0.00
28.40	0.00	0	542.23	0.00
28.60	0.00	0	542.23	0.00
28.80	0.00	0	542.23	0.00
29.00	0.00	0	542.23	0.00
29.20	0.00	0	542.23	0.00
29.40	0.00	0	542.23	0.00
29.60	0.00	0	542.23	0.00
29.80	0.00	0	542.23	0.00
30.00	0.00	0	542.23	0.00
30.20	0.00	0	542.23	0.00
30.40	0.00	0	542.23	0.00
30.60	0.00	0	542.23	0.00
30.80	0.00	0	542.23	0.00
31.00	0.00	0	542.23	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	542.23	0.00
31.40	0.00	0	542.23	0.00
31.60	0.00	0	542.23	0.00
31.80	0.00	0	542.23	0.00
32.00	0.00	0	542.23	0.00
32.20	0.00	0	542.23	0.00
32.40	0.00	0	542.23	0.00
32.60	0.00	0	542.23	0.00
32.80	0.00	0	542.23	0.00
33.00	0.00	0	542.23	0.00
33.20	0.00	0	542.23	0.00
33.40	0.00	0	542.23	0.00
33.60	0.00	0	542.23	0.00
33.80	0.00	0	542.23	0.00
34.00	0.00	0	542.23	0.00
34.20	0.00	0	542.23	0.00
34.40	0.00	0	542.23	0.00
34.60	0.00	0	542.23	0.00
34.80	0.00	0	542.23	0.00
35.00	0.00	0	542.23	0.00
35.20	0.00	0	542.23	0.00
35.40	0.00	0	542.23	0.00
35.60	0.00	0	542.23	0.00
35.80	0.00	0	542.23	0.00
36.00	0.00	0	542.23	0.00
36.20	0.00	0	542.23	0.00
36.40	0.00	0	542.23	0.00
36.60	0.00	0	542.23	0.00
36.80	0.00	0	542.23	0.00
37.00	0.00	0	542.23	0.00
37.20	0.00	0	542.23	0.00
37.40	0.00	0	542.23	0.00
37.60	0.00	0	542.23	0.00
37.80	0.00	0	542.23	0.00
38.00	0.00	0	542.23	0.00
38.20	0.00	0	542.23	0.00
38.40	0.00	0	542.23	0.00
38.60	0.00	0	542.23	0.00
38.80	0.00	0	542.23	0.00
39.00	0.00	0	542.23	0.00
39.20	0.00	0	542.23	0.00
39.40	0.00	0	542.23	0.00
39.60	0.00	0	542.23	0.00
39.80	0.00	0	542.23	0.00
40.00	0.00	0	542.23	0.00
40.20	0.00	0	542.23	0.00
40.40	0.00	0	542.23	0.00
40.60	0.00	0	542.23	0.00
40.80	0.00	0	542.23	0.00
41.00	0.00	0	542.23	0.00
41.20	0.00	0	542.23	0.00
41.40	0.00	0	542.23	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	542.23	0.00
41.80	0.00	0	542.23	0.00
42.00	0.00	0	542.23	0.00
42.20	0.00	0	542.23	0.00
42.40	0.00	0	542.23	0.00
42.60	0.00	0	542.23	0.00
42.80	0.00	0	542.23	0.00
43.00	0.00	0	542.23	0.00
43.20	0.00	0	542.23	0.00
43.40	0.00	0	542.23	0.00
43.60	0.00	0	542.23	0.00
43.80	0.00	0	542.23	0.00
44.00	0.00	0	542.23	0.00
44.20	0.00	0	542.23	0.00
44.40	0.00	0	542.23	0.00
44.60	0.00	0	542.23	0.00
44.80	0.00	0	542.23	0.00
45.00	0.00	0	542.23	0.00
45.20	0.00	0	542.23	0.00
45.40	0.00	0	542.23	0.00
45.60	0.00	0	542.23	0.00
45.80	0.00	0	542.23	0.00
46.00	0.00	0	542.23	0.00
46.20	0.00	0	542.23	0.00
46.40	0.00	0	542.23	0.00
46.60	0.00	0	542.23	0.00
46.80	0.00	0	542.23	0.00
47.00	0.00	0	542.23	0.00
47.20	0.00	0	542.23	0.00
47.40	0.00	0	542.23	0.00
47.60	0.00	0	542.23	0.00
47.80	0.00	0	542.23	0.00
48.00	0.00	0	542.23	0.00
48.20	0.00	0	542.23	0.00
48.40	0.00	0	542.23	0.00
48.60	0.00	0	542.23	0.00
48.80	0.00	0	542.23	0.00
49.00	0.00	0	542.23	0.00
49.20	0.00	0	542.23	0.00
49.40	0.00	0	542.23	0.00
49.60	0.00	0	542.23	0.00
49.80	0.00	0	542.23	0.00
50.00	0.00	0	542.23	0.00
50.20	0.00	0	542.23	0.00
50.40	0.00	0	542.23	0.00
50.60	0.00	0	542.23	0.00
50.80	0.00	0	542.23	0.00
51.00	0.00	0	542.23	0.00
51.20	0.00	0	542.23	0.00
51.40	0.00	0	542.23	0.00
51.60	0.00	0	542.23	0.00
51.80	0.00	0	542.23	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.23	0.00
52.20	0.00	0	542.23	0.00
52.40	0.00	0	542.23	0.00
52.60	0.00	0	542.23	0.00
52.80	0.00	0	542.23	0.00
53.00	0.00	0	542.23	0.00
53.20	0.00	0	542.23	0.00
53.40	0.00	0	542.23	0.00
53.60	0.00	0	542.23	0.00
53.80	0.00	0	542.23	0.00
54.00	0.00	0	542.23	0.00
54.20	0.00	0	542.23	0.00
54.40	0.00	0	542.23	0.00
54.60	0.00	0	542.23	0.00
54.80	0.00	0	542.23	0.00
55.00	0.00	0	542.23	0.00
55.20	0.00	0	542.23	0.00
55.40	0.00	0	542.23	0.00
55.60	0.00	0	542.23	0.00
55.80	0.00	0	542.23	0.00
56.00	0.00	0	542.23	0.00
56.20	0.00	0	542.23	0.00
56.40	0.00	0	542.23	0.00
56.60	0.00	0	542.23	0.00
56.80	0.00	0	542.23	0.00
57.00	0.00	0	542.23	0.00
57.20	0.00	0	542.23	0.00
57.40	0.00	0	542.23	0.00
57.60	0.00	0	542.23	0.00
57.80	0.00	0	542.23	0.00
58.00	0.00	0	542.23	0.00
58.20	0.00	0	542.23	0.00
58.40	0.00	0	542.23	0.00
58.60	0.00	0	542.23	0.00
58.80	0.00	0	542.23	0.00
59.00	0.00	0	542.23	0.00
59.20	0.00	0	542.23	0.00
59.40	0.00	0	542.23	0.00
59.60	0.00	0	542.23	0.00
59.80	0.00	0	542.23	0.00
60.00	0.00	0	542.23	0.00
60.20	0.00	0	542.23	0.00
60.40	0.00	0	542.23	0.00
60.60	0.00	0	542.23	0.00
60.80	0.00	0	542.23	0.00
61.00	0.00	0	542.23	0.00
61.20	0.00	0	542.23	0.00
61.40	0.00	0	542.23	0.00
61.60	0.00	0	542.23	0.00
61.80	0.00	0	542.23	0.00
62.00	0.00	0	542.23	0.00
62.20	0.00	0	542.23	0.00



**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.23	0.00
62.60	0.00	0	542.23	0.00
62.80	0.00	0	542.23	0.00
63.00	0.00	0	542.23	0.00
63.20	0.00	0	542.23	0.00
63.40	0.00	0	542.23	0.00
63.60	0.00	0	542.23	0.00
63.80	0.00	0	542.23	0.00
64.00	0.00	0	542.23	0.00
64.20	0.00	0	542.23	0.00
64.40	0.00	0	542.23	0.00
64.60	0.00	0	542.23	0.00
64.80	0.00	0	542.23	0.00
65.00	0.00	0	542.23	0.00
65.20	0.00	0	542.23	0.00
65.40	0.00	0	542.23	0.00
65.60	0.00	0	542.23	0.00
65.80	0.00	0	542.23	0.00
66.00	0.00	0	542.23	0.00
66.20	0.00	0	542.23	0.00
66.40	0.00	0	542.23	0.00
66.60	0.00	0	542.23	0.00
66.80	0.00	0	542.23	0.00
67.00	0.00	0	542.23	0.00
67.20	0.00	0	542.23	0.00
67.40	0.00	0	542.23	0.00
67.60	0.00	0	542.23	0.00
67.80	0.00	0	542.23	0.00
68.00	0.00	0	542.23	0.00
68.20	0.00	0	542.23	0.00
68.40	0.00	0	542.23	0.00
68.60	0.00	0	542.23	0.00
68.80	0.00	0	542.23	0.00
69.00	0.00	0	542.23	0.00
69.20	0.00	0	542.23	0.00
69.40	0.00	0	542.23	0.00
69.60	0.00	0	542.23	0.00
69.80	0.00	0	542.23	0.00
70.00	0.00	0	542.23	0.00
70.20	0.00	0	542.23	0.00
70.40	0.00	0	542.23	0.00
70.60	0.00	0	542.23	0.00
70.80	0.00	0	542.23	0.00
71.00	0.00	0	542.23	0.00
71.20	0.00	0	542.23	0.00
71.40	0.00	0	542.23	0.00
71.60	0.00	0	542.23	0.00
71.80	0.00	0	542.23	0.00
72.00	0.00	0	542.23	0.00

**Stage-Area-Storage for Pond PV-5: Pervious Pavers 5**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.23	2,400	0	542.75	2,400	499
542.24	2,400	10	542.76	2,400	509
542.25	2,400	19	542.77	2,400	518
542.26	2,400	29	542.78	2,400	528
542.27	2,400	38	542.79	2,400	538
542.28	2,400	48	542.80	2,400	547
542.29	2,400	58	542.81	2,400	557
542.30	2,400	67	542.82	2,400	566
542.31	2,400	77	542.83	2,400	576
542.32	2,400	86	542.84	2,400	586
542.33	2,400	96	542.85	2,400	595
542.34	2,400	106	542.86	2,400	605
542.35	2,400	115	542.87	2,400	614
542.36	2,400	125	542.88	2,400	624
542.37	2,400	134	542.89	2,400	634
542.38	2,400	144	542.90	2,400	643
542.39	2,400	154	542.91	2,400	653
542.40	2,400	163	542.92	2,400	662
542.41	2,400	173	542.93	2,400	672
542.42	2,400	182	542.94	2,400	682
542.43	2,400	192	542.95	2,400	691
542.44	2,400	202	542.96	2,400	701
542.45	2,400	211	542.97	2,400	710
542.46	2,400	221	542.98	2,400	720
542.47	2,400	230	542.99	2,400	730
542.48	2,400	240	543.00	2,400	739
542.49	2,400	250	543.01	2,400	749
542.50	2,400	259	543.02	2,400	758
542.51	2,400	269	543.03	2,400	768
542.52	2,400	278	543.04	2,400	778
542.53	2,400	288	543.05	2,400	787
542.54	2,400	298	543.06	2,400	797
542.55	2,400	307	543.07	2,400	806
542.56	2,400	317	543.08	2,400	816
542.57	2,400	326	543.09	2,400	826
542.58	2,400	336	543.10	2,400	835
542.59	2,400	346	543.11	2,400	845
542.60	2,400	355	543.12	2,400	854
542.61	2,400	365	543.13	2,400	864
542.62	2,400	374	543.14	2,400	874
542.63	2,400	384	543.15	2,400	883
542.64	2,400	394	543.16	2,400	893
542.65	2,400	403	543.17	2,400	902
542.66	2,400	413	543.18	2,400	912
542.67	2,400	422	543.19	2,400	922
542.68	2,400	432	543.20	2,400	931
542.69	2,400	442	543.21	2,400	941
542.70	2,400	451	543.22	2,400	950
542.71	2,400	461	543.23	2,400	960
542.72	2,400	470	543.24	2,400	970
542.73	2,400	480	543.25	2,400	979
542.74	2,400	490	543.26	2,400	989

**Stage-Area-Storage for Pond PV-5: Pervious Pavers 5 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.27	2,400	998	543.79	2,400	1,498
543.28	2,400	1,008	543.80	2,400	1,507
543.29	2,400	1,018	543.81	2,400	1,517
543.30	2,400	1,027	543.82	2,400	1,526
543.31	2,400	1,037	543.83	2,400	<b>1,536</b>
543.32	2,400	1,046			
543.33	2,400	1,056			
543.34	2,400	1,066			
543.35	2,400	1,075			
543.36	2,400	1,085			
543.37	2,400	1,094			
543.38	2,400	1,104			
543.39	2,400	1,114			
543.40	2,400	1,123			
543.41	2,400	1,133			
543.42	2,400	1,142			
543.43	2,400	1,152			
543.44	2,400	1,162			
543.45	2,400	1,171			
543.46	2,400	1,181			
543.47	2,400	1,190			
543.48	2,400	1,200			
543.49	2,400	1,210			
543.50	2,400	1,219			
543.51	2,400	1,229			
543.52	2,400	1,238			
543.53	2,400	1,248			
543.54	2,400	1,258			
543.55	2,400	1,267			
543.56	2,400	1,277			
543.57	2,400	1,286			
543.58	2,400	1,296			
543.59	2,400	1,306			
543.60	2,400	1,315			
543.61	2,400	1,325			
543.62	2,400	1,334			
543.63	2,400	1,344			
543.64	2,400	1,354			
543.65	2,400	1,363			
543.66	2,400	1,373			
543.67	2,400	1,382			
543.68	2,400	1,392			
543.69	2,400	1,402			
543.70	2,400	1,411			
543.71	2,400	1,421			
543.72	2,400	1,430			
543.73	2,400	1,440			
543.74	2,400	1,450			
543.75	2,400	1,459			
543.76	2,400	1,469			
543.77	2,400	1,478			
543.78	2,400	1,488			

**Summary for Pond PV-6: Pervious Pavers 6**

[44] Hint: Outlet device #2 is below defined storage

[87] Warning: Oscillations may require smaller dt or Finer Routing (severity=43)

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 0.72" for WQV event  
 Inflow = 0.27 cfs @ 1.13 hrs, Volume= 357 cf  
 Outflow = 0.19 cfs @ 1.20 hrs, Volume= 357 cf, Atten= 27%, Lag= 4.1 min  
 Primary = 0.19 cfs @ 1.20 hrs, Volume= 357 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 541.24' @ 1.20 hrs Surf.Area= 1,488 sf Storage= 30 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 0.9 min ( 74.0 - 73.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.19'	1,363 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,408 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.19	1,488	0	0
543.48	1,488	3,408	3,408

Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	540.86'	<b>4.0" Vert. Underdrain</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.19 cfs @ 1.20 hrs HW=541.24' TW=0.00' (Dynamic Tailwater)

- ↑1=Culvert (Passes 0.19 cfs of 0.26 cfs potential flow)
- ↑2=Underdrain (Orifice Controls 0.19 cfs @ 2.23 fps)

**Hydrograph for Pond PV-6: Pervious Pavers 6**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	541.19	0.00
0.20	0.00	0	541.19	0.00
0.40	0.00	0	541.19	0.00
0.60	0.01	0	541.19	0.01
0.80	0.02	0	541.19	0.02
1.00	<b>0.12</b>	0	541.19	0.12
1.20	<b>0.19</b>	<b>30</b>	<b>541.24</b>	<b>0.19</b>
1.40	0.05	0	541.19	0.02
1.60	0.04	0	541.19	0.01
1.80	0.03	0	541.19	0.00
2.00	0.01	0	541.19	0.00
2.20	0.00	0	541.19	0.00
2.40	0.00	0	541.19	0.00
2.60	0.00	0	541.19	0.00
2.80	0.00	0	541.19	0.00
3.00	0.00	0	541.19	0.00
3.20	0.00	0	541.19	0.00
3.40	0.00	0	541.19	0.00
3.60	0.00	0	541.19	0.00
3.80	0.00	0	541.19	0.00
4.00	0.00	0	541.19	0.00
4.20	0.00	0	541.19	0.00
4.40	0.00	0	541.19	0.00
4.60	0.00	0	541.19	0.00
4.80	0.00	0	541.19	0.00
5.00	0.00	0	541.19	0.00
5.20	0.00	0	541.19	0.00
5.40	0.00	0	541.19	0.00
5.60	0.00	0	541.19	0.00
5.80	0.00	0	541.19	0.00
6.00	0.00	0	541.19	0.00
6.20	0.00	0	541.19	0.00
6.40	0.00	0	541.19	0.00
6.60	0.00	0	541.19	0.00
6.80	0.00	0	541.19	0.00
7.00	0.00	0	541.19	0.00
7.20	0.00	0	541.19	0.00
7.40	0.00	0	541.19	0.00
7.60	0.00	0	541.19	0.00
7.80	0.00	0	541.19	0.00
8.00	0.00	0	541.19	0.00
8.20	0.00	0	541.19	0.00
8.40	0.00	0	541.19	0.00
8.60	0.00	0	541.19	0.00
8.80	0.00	0	541.19	0.00
9.00	0.00	0	541.19	0.00
9.20	0.00	0	541.19	0.00
9.40	0.00	0	541.19	0.00
9.60	0.00	0	541.19	0.00
9.80	0.00	0	541.19	0.00
10.00	0.00	0	541.19	0.00
10.20	0.00	0	541.19	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	0	541.19	0.00
10.60	0.00	0	541.19	0.00
10.80	0.00	0	541.19	0.00
11.00	0.00	0	541.19	0.00
11.20	0.00	0	541.19	0.00
11.40	0.00	0	541.19	0.00
11.60	0.00	0	541.19	0.00
11.80	0.00	0	541.19	0.00
12.00	0.00	0	541.19	0.00
12.20	0.00	0	541.19	0.00
12.40	0.00	0	541.19	0.00
12.60	0.00	0	541.19	0.00
12.80	0.00	0	541.19	0.00
13.00	0.00	0	541.19	0.00
13.20	0.00	0	541.19	0.00
13.40	0.00	0	541.19	0.00
13.60	0.00	0	541.19	0.00
13.80	0.00	0	541.19	0.00
14.00	0.00	0	541.19	0.00
14.20	0.00	0	541.19	0.00
14.40	0.00	0	541.19	0.00
14.60	0.00	0	541.19	0.00
14.80	0.00	0	541.19	0.00
15.00	0.00	0	541.19	0.00
15.20	0.00	0	541.19	0.00
15.40	0.00	0	541.19	0.00
15.60	0.00	0	541.19	0.00
15.80	0.00	0	541.19	0.00
16.00	0.00	0	541.19	0.00
16.20	0.00	0	541.19	0.00
16.40	0.00	0	541.19	0.00
16.60	0.00	0	541.19	0.00
16.80	0.00	0	541.19	0.00
17.00	0.00	0	541.19	0.00
17.20	0.00	0	541.19	0.00
17.40	0.00	0	541.19	0.00
17.60	0.00	0	541.19	0.00
17.80	0.00	0	541.19	0.00
18.00	0.00	0	541.19	0.00
18.20	0.00	0	541.19	0.00
18.40	0.00	0	541.19	0.00
18.60	0.00	0	541.19	0.00
18.80	0.00	0	541.19	0.00
19.00	0.00	0	541.19	0.00
19.20	0.00	0	541.19	0.00
19.40	0.00	0	541.19	0.00
19.60	0.00	0	541.19	0.00
19.80	0.00	0	541.19	0.00
20.00	0.00	0	541.19	0.00
20.20	0.00	0	541.19	0.00
20.40	0.00	0	541.19	0.00
20.60	0.00	0	541.19	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	0	541.19	0.00
21.00	0.00	0	541.19	0.00
21.20	0.00	0	541.19	0.00
21.40	0.00	0	541.19	0.00
21.60	0.00	0	541.19	0.00
21.80	0.00	0	541.19	0.00
22.00	0.00	0	541.19	0.00
22.20	0.00	0	541.19	0.00
22.40	0.00	0	541.19	0.00
22.60	0.00	0	541.19	0.00
22.80	0.00	0	541.19	0.00
23.00	0.00	0	541.19	0.00
23.20	0.00	0	541.19	0.00
23.40	0.00	0	541.19	0.00
23.60	0.00	0	541.19	0.00
23.80	0.00	0	541.19	0.00
24.00	0.00	0	541.19	0.00
24.20	0.00	0	541.19	0.00
24.40	0.00	0	541.19	0.00
24.60	0.00	0	541.19	0.00
24.80	0.00	0	541.19	0.00
25.00	0.00	0	541.19	0.00
25.20	0.00	0	541.19	0.00
25.40	0.00	0	541.19	0.00
25.60	0.00	0	541.19	0.00
25.80	0.00	0	541.19	0.00
26.00	0.00	0	541.19	0.00
26.20	0.00	0	541.19	0.00
26.40	0.00	0	541.19	0.00
26.60	0.00	0	541.19	0.00
26.80	0.00	0	541.19	0.00
27.00	0.00	0	541.19	0.00
27.20	0.00	0	541.19	0.00
27.40	0.00	0	541.19	0.00
27.60	0.00	0	541.19	0.00
27.80	0.00	0	541.19	0.00
28.00	0.00	0	541.19	0.00
28.20	0.00	0	541.19	0.00
28.40	0.00	0	541.19	0.00
28.60	0.00	0	541.19	0.00
28.80	0.00	0	541.19	0.00
29.00	0.00	0	541.19	0.00
29.20	0.00	0	541.19	0.00
29.40	0.00	0	541.19	0.00
29.60	0.00	0	541.19	0.00
29.80	0.00	0	541.19	0.00
30.00	0.00	0	541.19	0.00
30.20	0.00	0	541.19	0.00
30.40	0.00	0	541.19	0.00
30.60	0.00	0	541.19	0.00
30.80	0.00	0	541.19	0.00
31.00	0.00	0	541.19	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	0	541.19	0.00
31.40	0.00	0	541.19	0.00
31.60	0.00	0	541.19	0.00
31.80	0.00	0	541.19	0.00
32.00	0.00	0	541.19	0.00
32.20	0.00	0	541.19	0.00
32.40	0.00	0	541.19	0.00
32.60	0.00	0	541.19	0.00
32.80	0.00	0	541.19	0.00
33.00	0.00	0	541.19	0.00
33.20	0.00	0	541.19	0.00
33.40	0.00	0	541.19	0.00
33.60	0.00	0	541.19	0.00
33.80	0.00	0	541.19	0.00
34.00	0.00	0	541.19	0.00
34.20	0.00	0	541.19	0.00
34.40	0.00	0	541.19	0.00
34.60	0.00	0	541.19	0.00
34.80	0.00	0	541.19	0.00
35.00	0.00	0	541.19	0.00
35.20	0.00	0	541.19	0.00
35.40	0.00	0	541.19	0.00
35.60	0.00	0	541.19	0.00
35.80	0.00	0	541.19	0.00
36.00	0.00	0	541.19	0.00
36.20	0.00	0	541.19	0.00
36.40	0.00	0	541.19	0.00
36.60	0.00	0	541.19	0.00
36.80	0.00	0	541.19	0.00
37.00	0.00	0	541.19	0.00
37.20	0.00	0	541.19	0.00
37.40	0.00	0	541.19	0.00
37.60	0.00	0	541.19	0.00
37.80	0.00	0	541.19	0.00
38.00	0.00	0	541.19	0.00
38.20	0.00	0	541.19	0.00
38.40	0.00	0	541.19	0.00
38.60	0.00	0	541.19	0.00
38.80	0.00	0	541.19	0.00
39.00	0.00	0	541.19	0.00
39.20	0.00	0	541.19	0.00
39.40	0.00	0	541.19	0.00
39.60	0.00	0	541.19	0.00
39.80	0.00	0	541.19	0.00
40.00	0.00	0	541.19	0.00
40.20	0.00	0	541.19	0.00
40.40	0.00	0	541.19	0.00
40.60	0.00	0	541.19	0.00
40.80	0.00	0	541.19	0.00
41.00	0.00	0	541.19	0.00
41.20	0.00	0	541.19	0.00
41.40	0.00	0	541.19	0.00



**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	541.19	0.00
41.80	0.00	0	541.19	0.00
42.00	0.00	0	541.19	0.00
42.20	0.00	0	541.19	0.00
42.40	0.00	0	541.19	0.00
42.60	0.00	0	541.19	0.00
42.80	0.00	0	541.19	0.00
43.00	0.00	0	541.19	0.00
43.20	0.00	0	541.19	0.00
43.40	0.00	0	541.19	0.00
43.60	0.00	0	541.19	0.00
43.80	0.00	0	541.19	0.00
44.00	0.00	0	541.19	0.00
44.20	0.00	0	541.19	0.00
44.40	0.00	0	541.19	0.00
44.60	0.00	0	541.19	0.00
44.80	0.00	0	541.19	0.00
45.00	0.00	0	541.19	0.00
45.20	0.00	0	541.19	0.00
45.40	0.00	0	541.19	0.00
45.60	0.00	0	541.19	0.00
45.80	0.00	0	541.19	0.00
46.00	0.00	0	541.19	0.00
46.20	0.00	0	541.19	0.00
46.40	0.00	0	541.19	0.00
46.60	0.00	0	541.19	0.00
46.80	0.00	0	541.19	0.00
47.00	0.00	0	541.19	0.00
47.20	0.00	0	541.19	0.00
47.40	0.00	0	541.19	0.00
47.60	0.00	0	541.19	0.00
47.80	0.00	0	541.19	0.00
48.00	0.00	0	541.19	0.00
48.20	0.00	0	541.19	0.00
48.40	0.00	0	541.19	0.00
48.60	0.00	0	541.19	0.00
48.80	0.00	0	541.19	0.00
49.00	0.00	0	541.19	0.00
49.20	0.00	0	541.19	0.00
49.40	0.00	0	541.19	0.00
49.60	0.00	0	541.19	0.00
49.80	0.00	0	541.19	0.00
50.00	0.00	0	541.19	0.00
50.20	0.00	0	541.19	0.00
50.40	0.00	0	541.19	0.00
50.60	0.00	0	541.19	0.00
50.80	0.00	0	541.19	0.00
51.00	0.00	0	541.19	0.00
51.20	0.00	0	541.19	0.00
51.40	0.00	0	541.19	0.00
51.60	0.00	0	541.19	0.00
51.80	0.00	0	541.19	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	541.19	0.00
52.20	0.00	0	541.19	0.00
52.40	0.00	0	541.19	0.00
52.60	0.00	0	541.19	0.00
52.80	0.00	0	541.19	0.00
53.00	0.00	0	541.19	0.00
53.20	0.00	0	541.19	0.00
53.40	0.00	0	541.19	0.00
53.60	0.00	0	541.19	0.00
53.80	0.00	0	541.19	0.00
54.00	0.00	0	541.19	0.00
54.20	0.00	0	541.19	0.00
54.40	0.00	0	541.19	0.00
54.60	0.00	0	541.19	0.00
54.80	0.00	0	541.19	0.00
55.00	0.00	0	541.19	0.00
55.20	0.00	0	541.19	0.00
55.40	0.00	0	541.19	0.00
55.60	0.00	0	541.19	0.00
55.80	0.00	0	541.19	0.00
56.00	0.00	0	541.19	0.00
56.20	0.00	0	541.19	0.00
56.40	0.00	0	541.19	0.00
56.60	0.00	0	541.19	0.00
56.80	0.00	0	541.19	0.00
57.00	0.00	0	541.19	0.00
57.20	0.00	0	541.19	0.00
57.40	0.00	0	541.19	0.00
57.60	0.00	0	541.19	0.00
57.80	0.00	0	541.19	0.00
58.00	0.00	0	541.19	0.00
58.20	0.00	0	541.19	0.00
58.40	0.00	0	541.19	0.00
58.60	0.00	0	541.19	0.00
58.80	0.00	0	541.19	0.00
59.00	0.00	0	541.19	0.00
59.20	0.00	0	541.19	0.00
59.40	0.00	0	541.19	0.00
59.60	0.00	0	541.19	0.00
59.80	0.00	0	541.19	0.00
60.00	0.00	0	541.19	0.00
60.20	0.00	0	541.19	0.00
60.40	0.00	0	541.19	0.00
60.60	0.00	0	541.19	0.00
60.80	0.00	0	541.19	0.00
61.00	0.00	0	541.19	0.00
61.20	0.00	0	541.19	0.00
61.40	0.00	0	541.19	0.00
61.60	0.00	0	541.19	0.00
61.80	0.00	0	541.19	0.00
62.00	0.00	0	541.19	0.00
62.20	0.00	0	541.19	0.00

Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	541.19	0.00
62.60	0.00	0	541.19	0.00
62.80	0.00	0	541.19	0.00
63.00	0.00	0	541.19	0.00
63.20	0.00	0	541.19	0.00
63.40	0.00	0	541.19	0.00
63.60	0.00	0	541.19	0.00
63.80	0.00	0	541.19	0.00
64.00	0.00	0	541.19	0.00
64.20	0.00	0	541.19	0.00
64.40	0.00	0	541.19	0.00
64.60	0.00	0	541.19	0.00
64.80	0.00	0	541.19	0.00
65.00	0.00	0	541.19	0.00
65.20	0.00	0	541.19	0.00
65.40	0.00	0	541.19	0.00
65.60	0.00	0	541.19	0.00
65.80	0.00	0	541.19	0.00
66.00	0.00	0	541.19	0.00
66.20	0.00	0	541.19	0.00
66.40	0.00	0	541.19	0.00
66.60	0.00	0	541.19	0.00
66.80	0.00	0	541.19	0.00
67.00	0.00	0	541.19	0.00
67.20	0.00	0	541.19	0.00
67.40	0.00	0	541.19	0.00
67.60	0.00	0	541.19	0.00
67.80	0.00	0	541.19	0.00
68.00	0.00	0	541.19	0.00
68.20	0.00	0	541.19	0.00
68.40	0.00	0	541.19	0.00
68.60	0.00	0	541.19	0.00
68.80	0.00	0	541.19	0.00
69.00	0.00	0	541.19	0.00
69.20	0.00	0	541.19	0.00
69.40	0.00	0	541.19	0.00
69.60	0.00	0	541.19	0.00
69.80	0.00	0	541.19	0.00
70.00	0.00	0	541.19	0.00
70.20	0.00	0	541.19	0.00
70.40	0.00	0	541.19	0.00
70.60	0.00	0	541.19	0.00
70.80	0.00	0	541.19	0.00
71.00	0.00	0	541.19	0.00
71.20	0.00	0	541.19	0.00
71.40	0.00	0	541.19	0.00
71.60	0.00	0	541.19	0.00
71.80	0.00	0	541.19	0.00
72.00	0.00	0	541.19	0.00

**Stage-Area-Storage for Pond PV-6: Pervious Pavers 6**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
541.19	1,488	0	541.71	1,488	310
541.20	1,488	6	541.72	1,488	315
541.21	1,488	12	541.73	1,488	321
541.22	1,488	18	541.74	1,488	327
541.23	1,488	24	541.75	1,488	333
541.24	1,488	30	541.76	1,488	339
541.25	1,488	36	541.77	1,488	345
541.26	1,488	42	541.78	1,488	351
541.27	1,488	48	541.79	1,488	357
541.28	1,488	54	541.80	1,488	363
541.29	1,488	60	541.81	1,488	369
541.30	1,488	65	541.82	1,488	375
541.31	1,488	71	541.83	1,488	381
541.32	1,488	77	541.84	1,488	387
541.33	1,488	83	541.85	1,488	393
541.34	1,488	89	541.86	1,488	399
541.35	1,488	95	541.87	1,488	405
541.36	1,488	101	541.88	1,488	411
541.37	1,488	107	541.89	1,488	417
541.38	1,488	113	541.90	1,488	423
541.39	1,488	119	541.91	1,488	429
541.40	1,488	125	541.92	1,488	434
541.41	1,488	131	541.93	1,488	440
541.42	1,488	137	541.94	1,488	446
541.43	1,488	143	541.95	1,488	452
541.44	1,488	149	541.96	1,488	458
541.45	1,488	155	541.97	1,488	464
541.46	1,488	161	541.98	1,488	470
541.47	1,488	167	541.99	1,488	476
541.48	1,488	173	542.00	1,488	482
541.49	1,488	179	542.01	1,488	488
541.50	1,488	185	542.02	1,488	494
541.51	1,488	190	542.03	1,488	500
541.52	1,488	196	542.04	1,488	506
541.53	1,488	202	542.05	1,488	512
541.54	1,488	208	542.06	1,488	518
541.55	1,488	214	542.07	1,488	524
541.56	1,488	220	542.08	1,488	530
541.57	1,488	226	542.09	1,488	536
541.58	1,488	232	542.10	1,488	542
541.59	1,488	238	542.11	1,488	548
541.60	1,488	244	542.12	1,488	554
541.61	1,488	250	542.13	1,488	559
541.62	1,488	256	542.14	1,488	565
541.63	1,488	262	542.15	1,488	571
541.64	1,488	268	542.16	1,488	577
541.65	1,488	274	542.17	1,488	583
541.66	1,488	280	542.18	1,488	589
541.67	1,488	286	542.19	1,488	595
541.68	1,488	292	542.20	1,488	601
541.69	1,488	298	542.21	1,488	607
541.70	1,488	304	542.22	1,488	613

**Stage-Area-Storage for Pond PV-6: Pervious Pavers 6 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.23	1,488	619	542.75	1,488	929
542.24	1,488	625	542.76	1,488	934
542.25	1,488	631	542.77	1,488	940
542.26	1,488	637	542.78	1,488	946
542.27	1,488	643	542.79	1,488	952
542.28	1,488	649	542.80	1,488	958
542.29	1,488	655	542.81	1,488	964
542.30	1,488	661	542.82	1,488	970
542.31	1,488	667	542.83	1,488	976
542.32	1,488	673	542.84	1,488	982
542.33	1,488	679	542.85	1,488	988
542.34	1,488	684	542.86	1,488	994
542.35	1,488	690	542.87	1,488	1,000
542.36	1,488	696	542.88	1,488	1,006
542.37	1,488	702	542.89	1,488	1,012
542.38	1,488	708	542.90	1,488	1,018
542.39	1,488	714	542.91	1,488	1,024
542.40	1,488	720	542.92	1,488	1,030
542.41	1,488	726	542.93	1,488	1,036
542.42	1,488	732	542.94	1,488	1,042
542.43	1,488	738	542.95	1,488	1,048
542.44	1,488	744	542.96	1,488	1,054
542.45	1,488	750	542.97	1,488	1,059
542.46	1,488	756	542.98	1,488	1,065
542.47	1,488	762	542.99	1,488	1,071
542.48	1,488	768	543.00	1,488	1,077
542.49	1,488	774	543.01	1,488	1,083
542.50	1,488	780	543.02	1,488	1,089
542.51	1,488	786	543.03	1,488	1,095
542.52	1,488	792	543.04	1,488	1,101
542.53	1,488	798	543.05	1,488	1,107
542.54	1,488	804	543.06	1,488	1,113
542.55	1,488	809	543.07	1,488	1,119
542.56	1,488	815	543.08	1,488	1,125
542.57	1,488	821	543.09	1,488	1,131
542.58	1,488	827	543.10	1,488	1,137
542.59	1,488	833	543.11	1,488	1,143
542.60	1,488	839	543.12	1,488	1,149
542.61	1,488	845	543.13	1,488	1,155
542.62	1,488	851	543.14	1,488	1,161
542.63	1,488	857	543.15	1,488	1,167
542.64	1,488	863	543.16	1,488	1,173
542.65	1,488	869	543.17	1,488	1,178
542.66	1,488	875	543.18	1,488	1,184
542.67	1,488	881	543.19	1,488	1,190
542.68	1,488	887	543.20	1,488	1,196
542.69	1,488	893	543.21	1,488	1,202
542.70	1,488	899	543.22	1,488	1,208
542.71	1,488	905	543.23	1,488	1,214
542.72	1,488	911	543.24	1,488	1,220
542.73	1,488	917	543.25	1,488	1,226
542.74	1,488	923	543.26	1,488	1,232

**Stage-Area-Storage for Pond PV-6: Pervious Pavers 6 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.27	1,488	1,238
543.28	1,488	1,244
543.29	1,488	1,250
543.30	1,488	1,256
543.31	1,488	1,262
543.32	1,488	1,268
543.33	1,488	1,274
543.34	1,488	1,280
543.35	1,488	1,286
543.36	1,488	1,292
543.37	1,488	1,298
543.38	1,488	1,303
543.39	1,488	1,309
543.40	1,488	1,315
543.41	1,488	1,321
543.42	1,488	1,327
543.43	1,488	1,333
543.44	1,488	1,339
543.45	1,488	1,345
543.46	1,488	1,351
543.47	1,488	1,357
543.48	1,488	<b>1,363</b>

**Summary for Link P-1B: Pavers 1-6**

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 0.62" for WQV event  
Inflow = 1.12 cfs @ 1.14 hrs, Volume= 1,987 cf  
Primary = 1.12 cfs @ 1.14 hrs, Volume= 1,987 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

**Hydrograph for Link P-1B: Pavers 1-6**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	5.20	0.00	0.00	0.00
0.10	0.00	0.00	0.00	5.30	0.00	0.00	0.00
0.20	0.00	0.00	0.00	5.40	0.00	0.00	0.00
0.30	0.00	0.00	0.00	5.50	0.00	0.00	0.00
0.40	0.02	0.00	0.02	5.60	0.00	0.00	0.00
0.50	0.04	0.00	0.04	5.70	0.00	0.00	0.00
0.60	0.08	0.00	0.08	5.80	0.00	0.00	0.00
0.70	0.10	0.00	0.10	5.90	0.00	0.00	0.00
0.80	0.17	0.00	0.17	6.00	0.00	0.00	0.00
0.90	0.34	0.00	0.34	6.10	0.00	0.00	0.00
1.00	0.94	0.00	0.94	6.20	0.00	0.00	0.00
1.10	1.10	0.00	1.10	6.30	0.00	0.00	0.00
1.20	1.00	0.00	1.00	6.40	0.00	0.00	0.00
1.30	0.61	0.00	0.61	6.50	0.00	0.00	0.00
1.40	0.37	0.00	0.37	6.60	0.00	0.00	0.00
1.50	0.31	0.00	0.31	6.70	0.00	0.00	0.00
1.60	0.23	0.00	0.23	6.80	0.00	0.00	0.00
1.70	0.23	0.00	0.23	6.90	0.00	0.00	0.00
1.80	0.12	0.00	0.12	7.00	0.00	0.00	0.00
1.90	0.07	0.00	0.07	7.10	0.00	0.00	0.00
2.00	0.07	0.00	0.07	7.20	0.00	0.00	0.00
2.10	0.00	0.00	0.00	7.30	0.00	0.00	0.00
2.20	0.00	0.00	0.00	7.40	0.00	0.00	0.00
2.30	0.00	0.00	0.00	7.50	0.00	0.00	0.00
2.40	0.00	0.00	0.00	7.60	0.00	0.00	0.00
2.50	0.00	0.00	0.00	7.70	0.00	0.00	0.00
2.60	0.00	0.00	0.00	7.80	0.00	0.00	0.00
2.70	0.00	0.00	0.00	7.90	0.00	0.00	0.00
2.80	0.00	0.00	0.00	8.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	8.10	0.00	0.00	0.00
3.00	0.00	0.00	0.00	8.20	0.00	0.00	0.00
3.10	0.00	0.00	0.00	8.30	0.00	0.00	0.00
3.20	0.00	0.00	0.00	8.40	0.00	0.00	0.00
3.30	0.00	0.00	0.00	8.50	0.00	0.00	0.00
3.40	0.00	0.00	0.00	8.60	0.00	0.00	0.00
3.50	0.00	0.00	0.00	8.70	0.00	0.00	0.00
3.60	0.00	0.00	0.00	8.80	0.00	0.00	0.00
3.70	0.00	0.00	0.00	8.90	0.00	0.00	0.00
3.80	0.00	0.00	0.00	9.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	9.10	0.00	0.00	0.00
4.00	0.00	0.00	0.00	9.20	0.00	0.00	0.00
4.10	0.00	0.00	0.00	9.30	0.00	0.00	0.00
4.20	0.00	0.00	0.00	9.40	0.00	0.00	0.00
4.30	0.00	0.00	0.00	9.50	0.00	0.00	0.00
4.40	0.00	0.00	0.00	9.60	0.00	0.00	0.00
4.50	0.00	0.00	0.00	9.70	0.00	0.00	0.00
4.60	0.00	0.00	0.00	9.80	0.00	0.00	0.00
4.70	0.00	0.00	0.00	9.90	0.00	0.00	0.00
4.80	0.00	0.00	0.00	10.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	10.10	0.00	0.00	0.00
5.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00
5.10	0.00	0.00	0.00	10.30	0.00	0.00	0.00



**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.00	0.00	0.00	15.60	0.00	0.00	0.00
10.50	0.00	0.00	0.00	15.70	0.00	0.00	0.00
10.60	0.00	0.00	0.00	15.80	0.00	0.00	0.00
10.70	0.00	0.00	0.00	15.90	0.00	0.00	0.00
10.80	0.00	0.00	0.00	16.00	0.00	0.00	0.00
10.90	0.00	0.00	0.00	16.10	0.00	0.00	0.00
11.00	0.00	0.00	0.00	16.20	0.00	0.00	0.00
11.10	0.00	0.00	0.00	16.30	0.00	0.00	0.00
11.20	0.00	0.00	0.00	16.40	0.00	0.00	0.00
11.30	0.00	0.00	0.00	16.50	0.00	0.00	0.00
11.40	0.00	0.00	0.00	16.60	0.00	0.00	0.00
11.50	0.00	0.00	0.00	16.70	0.00	0.00	0.00
11.60	0.00	0.00	0.00	16.80	0.00	0.00	0.00
11.70	0.00	0.00	0.00	16.90	0.00	0.00	0.00
11.80	0.00	0.00	0.00	17.00	0.00	0.00	0.00
11.90	0.00	0.00	0.00	17.10	0.00	0.00	0.00
12.00	0.00	0.00	0.00	17.20	0.00	0.00	0.00
12.10	0.00	0.00	0.00	17.30	0.00	0.00	0.00
12.20	0.00	0.00	0.00	17.40	0.00	0.00	0.00
12.30	0.00	0.00	0.00	17.50	0.00	0.00	0.00
12.40	0.00	0.00	0.00	17.60	0.00	0.00	0.00
12.50	0.00	0.00	0.00	17.70	0.00	0.00	0.00
12.60	0.00	0.00	0.00	17.80	0.00	0.00	0.00
12.70	0.00	0.00	0.00	17.90	0.00	0.00	0.00
12.80	0.00	0.00	0.00	18.00	0.00	0.00	0.00
12.90	0.00	0.00	0.00	18.10	0.00	0.00	0.00
13.00	0.00	0.00	0.00	18.20	0.00	0.00	0.00
13.10	0.00	0.00	0.00	18.30	0.00	0.00	0.00
13.20	0.00	0.00	0.00	18.40	0.00	0.00	0.00
13.30	0.00	0.00	0.00	18.50	0.00	0.00	0.00
13.40	0.00	0.00	0.00	18.60	0.00	0.00	0.00
13.50	0.00	0.00	0.00	18.70	0.00	0.00	0.00
13.60	0.00	0.00	0.00	18.80	0.00	0.00	0.00
13.70	0.00	0.00	0.00	18.90	0.00	0.00	0.00
13.80	0.00	0.00	0.00	19.00	0.00	0.00	0.00
13.90	0.00	0.00	0.00	19.10	0.00	0.00	0.00
14.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00
14.10	0.00	0.00	0.00	19.30	0.00	0.00	0.00
14.20	0.00	0.00	0.00	19.40	0.00	0.00	0.00
14.30	0.00	0.00	0.00	19.50	0.00	0.00	0.00
14.40	0.00	0.00	0.00	19.60	0.00	0.00	0.00
14.50	0.00	0.00	0.00	19.70	0.00	0.00	0.00
14.60	0.00	0.00	0.00	19.80	0.00	0.00	0.00
14.70	0.00	0.00	0.00	19.90	0.00	0.00	0.00
14.80	0.00	0.00	0.00	20.00	0.00	0.00	0.00
14.90	0.00	0.00	0.00	20.10	0.00	0.00	0.00
15.00	0.00	0.00	0.00	20.20	0.00	0.00	0.00
15.10	0.00	0.00	0.00	20.30	0.00	0.00	0.00
15.20	0.00	0.00	0.00	20.40	0.00	0.00	0.00
15.30	0.00	0.00	0.00	20.50	0.00	0.00	0.00
15.40	0.00	0.00	0.00	20.60	0.00	0.00	0.00
15.50	0.00	0.00	0.00	20.70	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.00	0.00	0.00	26.00	0.00	0.00	0.00
20.90	0.00	0.00	0.00	26.10	0.00	0.00	0.00
21.00	0.00	0.00	0.00	26.20	0.00	0.00	0.00
21.10	0.00	0.00	0.00	26.30	0.00	0.00	0.00
21.20	0.00	0.00	0.00	26.40	0.00	0.00	0.00
21.30	0.00	0.00	0.00	26.50	0.00	0.00	0.00
21.40	0.00	0.00	0.00	26.60	0.00	0.00	0.00
21.50	0.00	0.00	0.00	26.70	0.00	0.00	0.00
21.60	0.00	0.00	0.00	26.80	0.00	0.00	0.00
21.70	0.00	0.00	0.00	26.90	0.00	0.00	0.00
21.80	0.00	0.00	0.00	27.00	0.00	0.00	0.00
21.90	0.00	0.00	0.00	27.10	0.00	0.00	0.00
22.00	0.00	0.00	0.00	27.20	0.00	0.00	0.00
22.10	0.00	0.00	0.00	27.30	0.00	0.00	0.00
22.20	0.00	0.00	0.00	27.40	0.00	0.00	0.00
22.30	0.00	0.00	0.00	27.50	0.00	0.00	0.00
22.40	0.00	0.00	0.00	27.60	0.00	0.00	0.00
22.50	0.00	0.00	0.00	27.70	0.00	0.00	0.00
22.60	0.00	0.00	0.00	27.80	0.00	0.00	0.00
22.70	0.00	0.00	0.00	27.90	0.00	0.00	0.00
22.80	0.00	0.00	0.00	28.00	0.00	0.00	0.00
22.90	0.00	0.00	0.00	28.10	0.00	0.00	0.00
23.00	0.00	0.00	0.00	28.20	0.00	0.00	0.00
23.10	0.00	0.00	0.00	28.30	0.00	0.00	0.00
23.20	0.00	0.00	0.00	28.40	0.00	0.00	0.00
23.30	0.00	0.00	0.00	28.50	0.00	0.00	0.00
23.40	0.00	0.00	0.00	28.60	0.00	0.00	0.00
23.50	0.00	0.00	0.00	28.70	0.00	0.00	0.00
23.60	0.00	0.00	0.00	28.80	0.00	0.00	0.00
23.70	0.00	0.00	0.00	28.90	0.00	0.00	0.00
23.80	0.00	0.00	0.00	29.00	0.00	0.00	0.00
23.90	0.00	0.00	0.00	29.10	0.00	0.00	0.00
24.00	0.00	0.00	0.00	29.20	0.00	0.00	0.00
24.10	0.00	0.00	0.00	29.30	0.00	0.00	0.00
24.20	0.00	0.00	0.00	29.40	0.00	0.00	0.00
24.30	0.00	0.00	0.00	29.50	0.00	0.00	0.00
24.40	0.00	0.00	0.00	29.60	0.00	0.00	0.00
24.50	0.00	0.00	0.00	29.70	0.00	0.00	0.00
24.60	0.00	0.00	0.00	29.80	0.00	0.00	0.00
24.70	0.00	0.00	0.00	29.90	0.00	0.00	0.00
24.80	0.00	0.00	0.00	30.00	0.00	0.00	0.00
24.90	0.00	0.00	0.00	30.10	0.00	0.00	0.00
25.00	0.00	0.00	0.00	30.20	0.00	0.00	0.00
25.10	0.00	0.00	0.00	30.30	0.00	0.00	0.00
25.20	0.00	0.00	0.00	30.40	0.00	0.00	0.00
25.30	0.00	0.00	0.00	30.50	0.00	0.00	0.00
25.40	0.00	0.00	0.00	30.60	0.00	0.00	0.00
25.50	0.00	0.00	0.00	30.70	0.00	0.00	0.00
25.60	0.00	0.00	0.00	30.80	0.00	0.00	0.00
25.70	0.00	0.00	0.00	30.90	0.00	0.00	0.00
25.80	0.00	0.00	0.00	31.00	0.00	0.00	0.00
25.90	0.00	0.00	0.00	31.10	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
31.20	0.00	0.00	0.00	36.40	0.00	0.00	0.00
31.30	0.00	0.00	0.00	36.50	0.00	0.00	0.00
31.40	0.00	0.00	0.00	36.60	0.00	0.00	0.00
31.50	0.00	0.00	0.00	36.70	0.00	0.00	0.00
31.60	0.00	0.00	0.00	36.80	0.00	0.00	0.00
31.70	0.00	0.00	0.00	36.90	0.00	0.00	0.00
31.80	0.00	0.00	0.00	37.00	0.00	0.00	0.00
31.90	0.00	0.00	0.00	37.10	0.00	0.00	0.00
32.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00
32.10	0.00	0.00	0.00	37.30	0.00	0.00	0.00
32.20	0.00	0.00	0.00	37.40	0.00	0.00	0.00
32.30	0.00	0.00	0.00	37.50	0.00	0.00	0.00
32.40	0.00	0.00	0.00	37.60	0.00	0.00	0.00
32.50	0.00	0.00	0.00	37.70	0.00	0.00	0.00
32.60	0.00	0.00	0.00	37.80	0.00	0.00	0.00
32.70	0.00	0.00	0.00	37.90	0.00	0.00	0.00
32.80	0.00	0.00	0.00	38.00	0.00	0.00	0.00
32.90	0.00	0.00	0.00	38.10	0.00	0.00	0.00
33.00	0.00	0.00	0.00	38.20	0.00	0.00	0.00
33.10	0.00	0.00	0.00	38.30	0.00	0.00	0.00
33.20	0.00	0.00	0.00	38.40	0.00	0.00	0.00
33.30	0.00	0.00	0.00	38.50	0.00	0.00	0.00
33.40	0.00	0.00	0.00	38.60	0.00	0.00	0.00
33.50	0.00	0.00	0.00	38.70	0.00	0.00	0.00
33.60	0.00	0.00	0.00	38.80	0.00	0.00	0.00
33.70	0.00	0.00	0.00	38.90	0.00	0.00	0.00
33.80	0.00	0.00	0.00	39.00	0.00	0.00	0.00
33.90	0.00	0.00	0.00	39.10	0.00	0.00	0.00
34.00	0.00	0.00	0.00	39.20	0.00	0.00	0.00
34.10	0.00	0.00	0.00	39.30	0.00	0.00	0.00
34.20	0.00	0.00	0.00	39.40	0.00	0.00	0.00
34.30	0.00	0.00	0.00	39.50	0.00	0.00	0.00
34.40	0.00	0.00	0.00	39.60	0.00	0.00	0.00
34.50	0.00	0.00	0.00	39.70	0.00	0.00	0.00
34.60	0.00	0.00	0.00	39.80	0.00	0.00	0.00
34.70	0.00	0.00	0.00	39.90	0.00	0.00	0.00
34.80	0.00	0.00	0.00	40.00	0.00	0.00	0.00
34.90	0.00	0.00	0.00	40.10	0.00	0.00	0.00
35.00	0.00	0.00	0.00	40.20	0.00	0.00	0.00
35.10	0.00	0.00	0.00	40.30	0.00	0.00	0.00
35.20	0.00	0.00	0.00	40.40	0.00	0.00	0.00
35.30	0.00	0.00	0.00	40.50	0.00	0.00	0.00
35.40	0.00	0.00	0.00	40.60	0.00	0.00	0.00
35.50	0.00	0.00	0.00	40.70	0.00	0.00	0.00
35.60	0.00	0.00	0.00	40.80	0.00	0.00	0.00
35.70	0.00	0.00	0.00	40.90	0.00	0.00	0.00
35.80	0.00	0.00	0.00	41.00	0.00	0.00	0.00
35.90	0.00	0.00	0.00	41.10	0.00	0.00	0.00
36.00	0.00	0.00	0.00	41.20	0.00	0.00	0.00
36.10	0.00	0.00	0.00	41.30	0.00	0.00	0.00
36.20	0.00	0.00	0.00	41.40	0.00	0.00	0.00
36.30	0.00	0.00	0.00	41.50	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
41.60	0.00	0.00	0.00	46.80	0.00	0.00	0.00
41.70	0.00	0.00	0.00	46.90	0.00	0.00	0.00
41.80	0.00	0.00	0.00	47.00	0.00	0.00	0.00
41.90	0.00	0.00	0.00	47.10	0.00	0.00	0.00
42.00	0.00	0.00	0.00	47.20	0.00	0.00	0.00
42.10	0.00	0.00	0.00	47.30	0.00	0.00	0.00
42.20	0.00	0.00	0.00	47.40	0.00	0.00	0.00
42.30	0.00	0.00	0.00	47.50	0.00	0.00	0.00
42.40	0.00	0.00	0.00	47.60	0.00	0.00	0.00
42.50	0.00	0.00	0.00	47.70	0.00	0.00	0.00
42.60	0.00	0.00	0.00	47.80	0.00	0.00	0.00
42.70	0.00	0.00	0.00	47.90	0.00	0.00	0.00
42.80	0.00	0.00	0.00	48.00	0.00	0.00	0.00
42.90	0.00	0.00	0.00	48.10	0.00	0.00	0.00
43.00	0.00	0.00	0.00	48.20	0.00	0.00	0.00
43.10	0.00	0.00	0.00	48.30	0.00	0.00	0.00
43.20	0.00	0.00	0.00	48.40	0.00	0.00	0.00
43.30	0.00	0.00	0.00	48.50	0.00	0.00	0.00
43.40	0.00	0.00	0.00	48.60	0.00	0.00	0.00
43.50	0.00	0.00	0.00	48.70	0.00	0.00	0.00
43.60	0.00	0.00	0.00	48.80	0.00	0.00	0.00
43.70	0.00	0.00	0.00	48.90	0.00	0.00	0.00
43.80	0.00	0.00	0.00	49.00	0.00	0.00	0.00
43.90	0.00	0.00	0.00	49.10	0.00	0.00	0.00
44.00	0.00	0.00	0.00	49.20	0.00	0.00	0.00
44.10	0.00	0.00	0.00	49.30	0.00	0.00	0.00
44.20	0.00	0.00	0.00	49.40	0.00	0.00	0.00
44.30	0.00	0.00	0.00	49.50	0.00	0.00	0.00
44.40	0.00	0.00	0.00	49.60	0.00	0.00	0.00
44.50	0.00	0.00	0.00	49.70	0.00	0.00	0.00
44.60	0.00	0.00	0.00	49.80	0.00	0.00	0.00
44.70	0.00	0.00	0.00	49.90	0.00	0.00	0.00
44.80	0.00	0.00	0.00	50.00	0.00	0.00	0.00
44.90	0.00	0.00	0.00	50.10	0.00	0.00	0.00
45.00	0.00	0.00	0.00	50.20	0.00	0.00	0.00
45.10	0.00	0.00	0.00	50.30	0.00	0.00	0.00
45.20	0.00	0.00	0.00	50.40	0.00	0.00	0.00
45.30	0.00	0.00	0.00	50.50	0.00	0.00	0.00
45.40	0.00	0.00	0.00	50.60	0.00	0.00	0.00
45.50	0.00	0.00	0.00	50.70	0.00	0.00	0.00
45.60	0.00	0.00	0.00	50.80	0.00	0.00	0.00
45.70	0.00	0.00	0.00	50.90	0.00	0.00	0.00
45.80	0.00	0.00	0.00	51.00	0.00	0.00	0.00
45.90	0.00	0.00	0.00	51.10	0.00	0.00	0.00
46.00	0.00	0.00	0.00	51.20	0.00	0.00	0.00
46.10	0.00	0.00	0.00	51.30	0.00	0.00	0.00
46.20	0.00	0.00	0.00	51.40	0.00	0.00	0.00
46.30	0.00	0.00	0.00	51.50	0.00	0.00	0.00
46.40	0.00	0.00	0.00	51.60	0.00	0.00	0.00
46.50	0.00	0.00	0.00	51.70	0.00	0.00	0.00
46.60	0.00	0.00	0.00	51.80	0.00	0.00	0.00
46.70	0.00	0.00	0.00	51.90	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
52.00	0.00	0.00	0.00	57.20	0.00	0.00	0.00
52.10	0.00	0.00	0.00	57.30	0.00	0.00	0.00
52.20	0.00	0.00	0.00	57.40	0.00	0.00	0.00
52.30	0.00	0.00	0.00	57.50	0.00	0.00	0.00
52.40	0.00	0.00	0.00	57.60	0.00	0.00	0.00
52.50	0.00	0.00	0.00	57.70	0.00	0.00	0.00
52.60	0.00	0.00	0.00	57.80	0.00	0.00	0.00
52.70	0.00	0.00	0.00	57.90	0.00	0.00	0.00
52.80	0.00	0.00	0.00	58.00	0.00	0.00	0.00
52.90	0.00	0.00	0.00	58.10	0.00	0.00	0.00
53.00	0.00	0.00	0.00	58.20	0.00	0.00	0.00
53.10	0.00	0.00	0.00	58.30	0.00	0.00	0.00
53.20	0.00	0.00	0.00	58.40	0.00	0.00	0.00
53.30	0.00	0.00	0.00	58.50	0.00	0.00	0.00
53.40	0.00	0.00	0.00	58.60	0.00	0.00	0.00
53.50	0.00	0.00	0.00	58.70	0.00	0.00	0.00
53.60	0.00	0.00	0.00	58.80	0.00	0.00	0.00
53.70	0.00	0.00	0.00	58.90	0.00	0.00	0.00
53.80	0.00	0.00	0.00	59.00	0.00	0.00	0.00
53.90	0.00	0.00	0.00	59.10	0.00	0.00	0.00
54.00	0.00	0.00	0.00	59.20	0.00	0.00	0.00
54.10	0.00	0.00	0.00	59.30	0.00	0.00	0.00
54.20	0.00	0.00	0.00	59.40	0.00	0.00	0.00
54.30	0.00	0.00	0.00	59.50	0.00	0.00	0.00
54.40	0.00	0.00	0.00	59.60	0.00	0.00	0.00
54.50	0.00	0.00	0.00	59.70	0.00	0.00	0.00
54.60	0.00	0.00	0.00	59.80	0.00	0.00	0.00
54.70	0.00	0.00	0.00	59.90	0.00	0.00	0.00
54.80	0.00	0.00	0.00	60.00	0.00	0.00	0.00
54.90	0.00	0.00	0.00	60.10	0.00	0.00	0.00
55.00	0.00	0.00	0.00	60.20	0.00	0.00	0.00
55.10	0.00	0.00	0.00	60.30	0.00	0.00	0.00
55.20	0.00	0.00	0.00	60.40	0.00	0.00	0.00
55.30	0.00	0.00	0.00	60.50	0.00	0.00	0.00
55.40	0.00	0.00	0.00	60.60	0.00	0.00	0.00
55.50	0.00	0.00	0.00	60.70	0.00	0.00	0.00
55.60	0.00	0.00	0.00	60.80	0.00	0.00	0.00
55.70	0.00	0.00	0.00	60.90	0.00	0.00	0.00
55.80	0.00	0.00	0.00	61.00	0.00	0.00	0.00
55.90	0.00	0.00	0.00	61.10	0.00	0.00	0.00
56.00	0.00	0.00	0.00	61.20	0.00	0.00	0.00
56.10	0.00	0.00	0.00	61.30	0.00	0.00	0.00
56.20	0.00	0.00	0.00	61.40	0.00	0.00	0.00
56.30	0.00	0.00	0.00	61.50	0.00	0.00	0.00
56.40	0.00	0.00	0.00	61.60	0.00	0.00	0.00
56.50	0.00	0.00	0.00	61.70	0.00	0.00	0.00
56.60	0.00	0.00	0.00	61.80	0.00	0.00	0.00
56.70	0.00	0.00	0.00	61.90	0.00	0.00	0.00
56.80	0.00	0.00	0.00	62.00	0.00	0.00	0.00
56.90	0.00	0.00	0.00	62.10	0.00	0.00	0.00
57.00	0.00	0.00	0.00	62.20	0.00	0.00	0.00
57.10	0.00	0.00	0.00	62.30	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
62.40	0.00	0.00	0.00	67.60	0.00	0.00	0.00
62.50	0.00	0.00	0.00	67.70	0.00	0.00	0.00
62.60	0.00	0.00	0.00	67.80	0.00	0.00	0.00
62.70	0.00	0.00	0.00	67.90	0.00	0.00	0.00
62.80	0.00	0.00	0.00	68.00	0.00	0.00	0.00
62.90	0.00	0.00	0.00	68.10	0.00	0.00	0.00
63.00	0.00	0.00	0.00	68.20	0.00	0.00	0.00
63.10	0.00	0.00	0.00	68.30	0.00	0.00	0.00
63.20	0.00	0.00	0.00	68.40	0.00	0.00	0.00
63.30	0.00	0.00	0.00	68.50	0.00	0.00	0.00
63.40	0.00	0.00	0.00	68.60	0.00	0.00	0.00
63.50	0.00	0.00	0.00	68.70	0.00	0.00	0.00
63.60	0.00	0.00	0.00	68.80	0.00	0.00	0.00
63.70	0.00	0.00	0.00	68.90	0.00	0.00	0.00
63.80	0.00	0.00	0.00	69.00	0.00	0.00	0.00
63.90	0.00	0.00	0.00	69.10	0.00	0.00	0.00
64.00	0.00	0.00	0.00	69.20	0.00	0.00	0.00
64.10	0.00	0.00	0.00	69.30	0.00	0.00	0.00
64.20	0.00	0.00	0.00	69.40	0.00	0.00	0.00
64.30	0.00	0.00	0.00	69.50	0.00	0.00	0.00
64.40	0.00	0.00	0.00	69.60	0.00	0.00	0.00
64.50	0.00	0.00	0.00	69.70	0.00	0.00	0.00
64.60	0.00	0.00	0.00	69.80	0.00	0.00	0.00
64.70	0.00	0.00	0.00	69.90	0.00	0.00	0.00
64.80	0.00	0.00	0.00	70.00	0.00	0.00	0.00
64.90	0.00	0.00	0.00	70.10	0.00	0.00	0.00
65.00	0.00	0.00	0.00	70.20	0.00	0.00	0.00
65.10	0.00	0.00	0.00	70.30	0.00	0.00	0.00
65.20	0.00	0.00	0.00	70.40	0.00	0.00	0.00
65.30	0.00	0.00	0.00	70.50	0.00	0.00	0.00
65.40	0.00	0.00	0.00	70.60	0.00	0.00	0.00
65.50	0.00	0.00	0.00	70.70	0.00	0.00	0.00
65.60	0.00	0.00	0.00	70.80	0.00	0.00	0.00
65.70	0.00	0.00	0.00	70.90	0.00	0.00	0.00
65.80	0.00	0.00	0.00	71.00	0.00	0.00	0.00
65.90	0.00	0.00	0.00	71.10	0.00	0.00	0.00
66.00	0.00	0.00	0.00	71.20	0.00	0.00	0.00
66.10	0.00	0.00	0.00	71.30	0.00	0.00	0.00
66.20	0.00	0.00	0.00	71.40	0.00	0.00	0.00
66.30	0.00	0.00	0.00	71.50	0.00	0.00	0.00
66.40	0.00	0.00	0.00	71.60	0.00	0.00	0.00
66.50	0.00	0.00	0.00	71.70	0.00	0.00	0.00
66.60	0.00	0.00	0.00	71.80	0.00	0.00	0.00
66.70	0.00	0.00	0.00	71.90	0.00	0.00	0.00
66.80	0.00	0.00	0.00	72.00	0.00	0.00	0.00
66.90	0.00	0.00	0.00				
67.00	0.00	0.00	0.00				
67.10	0.00	0.00	0.00				
67.20	0.00	0.00	0.00				
67.30	0.00	0.00	0.00				
67.40	0.00	0.00	0.00				
67.50	0.00	0.00	0.00				

**Summary for Subcatchment P-1B-1: Area 1**

Runoff = 1.80 cfs @ 12.10 hrs, Volume= 5,699 cf, Depth= 7.24"  
 Routed to Pond PV-1 : Pervious Pavers 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,855	98	Impervious
*	3,043	98	MVS - Impervious
*	3,078	85	MVS - Pervious Pavers
	1,464	80	>75% Grass cover, Good, HSG D
	9,440	91	Weighted Average
	4,542	83	48.11% Pervious Area
	4,898	98	51.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	8	0.0090	0.08		<b>Sheet Flow, 1b1-1b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 1b2-1b3</b>
					Paved Kv= 20.3 fps
1.8	25	Total			

**Hydrograph for Subcatchment P-1B-1: Area 1**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.01
1.40	0.14	0.00	0.03	0.01
1.60	0.16	0.00	0.04	0.01
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.00	0.31	0.01
4.60	0.52	0.01	0.33	0.02
4.80	0.54	0.01	0.36	0.02
5.00	0.57	0.01	0.38	0.02
5.20	0.60	0.02	0.41	0.02
5.40	0.63	0.02	0.43	0.02
5.60	0.65	0.03	0.46	0.02
5.80	0.68	0.03	0.49	0.02
6.00	0.71	0.04	0.52	0.02
6.20	0.74	0.05	0.54	0.02
6.40	0.78	0.06	0.57	0.02
6.60	0.81	0.06	0.61	0.02
6.80	0.84	0.08	0.64	0.03
7.00	0.88	0.09	0.67	0.03
7.20	0.92	0.10	0.71	0.03
7.40	0.96	0.12	0.75	0.03
7.60	1.00	0.13	0.79	0.03
7.80	1.04	0.15	0.83	0.03
8.00	1.08	0.17	0.87	0.03
8.20	1.13	0.19	0.92	0.04
8.40	1.18	0.21	0.96	0.04
8.60	1.22	0.23	1.01	0.04
8.80	1.27	0.26	1.06	0.04
9.00	1.32	0.28	1.11	0.04
9.20	1.38	0.31	1.16	0.05
9.40	1.44	0.35	1.22	0.05
9.60	1.51	0.38	1.29	0.06
9.80	1.58	0.42	1.36	0.06
10.00	1.66	0.47	1.43	0.07
10.20	1.74	0.52	1.51	0.07



**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.58	1.60	0.08
10.60	1.92	0.64	1.70	0.09
10.80	2.04	0.72	1.81	0.11
11.00	2.17	0.81	1.94	0.13
11.20	2.34	0.93	2.11	0.16
11.40	2.53	1.08	2.31	0.20
11.60	2.80	1.29	2.57	0.29
11.80	3.18	1.59	2.94	0.43
12.00	4.00	2.29	3.77	<b>1.06</b>
12.20	5.17	3.33	4.94	<b>0.63</b>
12.40	5.55	3.68	5.31	0.33
12.60	5.82	3.92	5.58	0.24
12.80	6.01	4.10	5.78	0.20
13.00	6.18	4.26	5.94	0.17
13.20	6.31	4.38	6.08	0.14
13.40	6.43	4.49	6.19	0.12
13.60	6.53	4.58	6.29	0.10
13.80	6.61	4.66	6.37	0.09
14.00	6.69	4.74	6.46	0.09
14.20	6.77	4.81	6.53	0.08
14.40	6.84	4.88	6.60	0.07
14.60	6.91	4.94	6.67	0.07
14.80	6.97	5.00	6.73	0.06
15.00	7.03	5.05	6.79	0.06
15.20	7.08	5.10	6.84	0.05
15.40	7.13	5.15	6.89	0.05
15.60	7.17	5.19	6.94	0.05
15.80	7.22	5.24	6.98	0.05
16.00	7.27	5.28	7.03	0.05
16.20	7.31	5.32	7.07	0.05
16.40	7.35	5.36	7.11	0.04
16.60	7.39	5.40	7.15	0.04
16.80	7.43	5.44	7.19	0.04
17.00	7.47	5.47	7.23	0.04
17.20	7.51	5.51	7.27	0.04
17.40	7.54	5.54	7.30	0.04
17.60	7.57	5.57	7.34	0.04
17.80	7.61	5.60	7.37	0.03
18.00	7.64	5.63	7.40	0.03
18.20	7.67	5.66	7.43	0.03
18.40	7.70	5.69	7.46	0.03
18.60	7.72	5.71	7.48	0.03
18.80	7.75	5.74	7.51	0.03
19.00	7.78	5.77	7.54	0.03
19.20	7.81	5.79	7.57	0.03
19.40	7.83	5.82	7.59	0.03
19.60	7.86	5.84	7.62	0.03
19.80	7.89	5.87	7.65	0.03
20.00	7.91	5.89	7.67	0.03
20.20	7.94	5.92	7.70	0.03
20.40	7.96	5.94	7.72	0.03
20.60	7.99	5.97	7.75	0.03

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	5.99	7.77	0.03
21.00	8.04	6.01	7.80	0.03
21.20	8.06	6.03	7.82	0.03
21.40	8.08	6.06	7.84	0.02
21.60	8.11	6.08	7.87	0.02
21.80	8.13	6.10	7.89	0.02
22.00	8.15	6.12	7.91	0.02
22.20	8.17	6.14	7.93	0.02
22.40	8.19	6.16	7.95	0.02
22.60	8.21	6.18	7.97	0.02
22.80	8.23	6.20	7.99	0.02
23.00	8.25	6.22	8.01	0.02
23.20	8.27	6.24	8.03	0.02
23.40	8.29	6.26	8.05	0.02
23.60	8.31	6.28	8.07	0.02
23.80	8.33	6.29	8.09	0.02
24.00	<b>8.35</b>	<b>6.31</b>	<b>8.11</b>	0.02
24.20	8.35	6.31	8.11	0.00
24.40	8.35	6.31	8.11	0.00
24.60	8.35	6.31	8.11	0.00
24.80	8.35	6.31	8.11	0.00
25.00	8.35	6.31	8.11	0.00
25.20	8.35	6.31	8.11	0.00
25.40	8.35	6.31	8.11	0.00
25.60	8.35	6.31	8.11	0.00
25.80	8.35	6.31	8.11	0.00
26.00	8.35	6.31	8.11	0.00
26.20	8.35	6.31	8.11	0.00
26.40	8.35	6.31	8.11	0.00
26.60	8.35	6.31	8.11	0.00
26.80	8.35	6.31	8.11	0.00
27.00	8.35	6.31	8.11	0.00
27.20	8.35	6.31	8.11	0.00
27.40	8.35	6.31	8.11	0.00
27.60	8.35	6.31	8.11	0.00
27.80	8.35	6.31	8.11	0.00
28.00	8.35	6.31	8.11	0.00
28.20	8.35	6.31	8.11	0.00
28.40	8.35	6.31	8.11	0.00
28.60	8.35	6.31	8.11	0.00
28.80	8.35	6.31	8.11	0.00
29.00	8.35	6.31	8.11	0.00
29.20	8.35	6.31	8.11	0.00
29.40	8.35	6.31	8.11	0.00
29.60	8.35	6.31	8.11	0.00
29.80	8.35	6.31	8.11	0.00
30.00	8.35	6.31	8.11	0.00
30.20	8.35	6.31	8.11	0.00
30.40	8.35	6.31	8.11	0.00
30.60	8.35	6.31	8.11	0.00
30.80	8.35	6.31	8.11	0.00
31.00	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.31	8.11	0.00
31.40	8.35	6.31	8.11	0.00
31.60	8.35	6.31	8.11	0.00
31.80	8.35	6.31	8.11	0.00
32.00	8.35	6.31	8.11	0.00
32.20	8.35	6.31	8.11	0.00
32.40	8.35	6.31	8.11	0.00
32.60	8.35	6.31	8.11	0.00
32.80	8.35	6.31	8.11	0.00
33.00	8.35	6.31	8.11	0.00
33.20	8.35	6.31	8.11	0.00
33.40	8.35	6.31	8.11	0.00
33.60	8.35	6.31	8.11	0.00
33.80	8.35	6.31	8.11	0.00
34.00	8.35	6.31	8.11	0.00
34.20	8.35	6.31	8.11	0.00
34.40	8.35	6.31	8.11	0.00
34.60	8.35	6.31	8.11	0.00
34.80	8.35	6.31	8.11	0.00
35.00	8.35	6.31	8.11	0.00
35.20	8.35	6.31	8.11	0.00
35.40	8.35	6.31	8.11	0.00
35.60	8.35	6.31	8.11	0.00
35.80	8.35	6.31	8.11	0.00
36.00	8.35	6.31	8.11	0.00
36.20	8.35	6.31	8.11	0.00
36.40	8.35	6.31	8.11	0.00
36.60	8.35	6.31	8.11	0.00
36.80	8.35	6.31	8.11	0.00
37.00	8.35	6.31	8.11	0.00
37.20	8.35	6.31	8.11	0.00
37.40	8.35	6.31	8.11	0.00
37.60	8.35	6.31	8.11	0.00
37.80	8.35	6.31	8.11	0.00
38.00	8.35	6.31	8.11	0.00
38.20	8.35	6.31	8.11	0.00
38.40	8.35	6.31	8.11	0.00
38.60	8.35	6.31	8.11	0.00
38.80	8.35	6.31	8.11	0.00
39.00	8.35	6.31	8.11	0.00
39.20	8.35	6.31	8.11	0.00
39.40	8.35	6.31	8.11	0.00
39.60	8.35	6.31	8.11	0.00
39.80	8.35	6.31	8.11	0.00
40.00	8.35	6.31	8.11	0.00
40.20	8.35	6.31	8.11	0.00
40.40	8.35	6.31	8.11	0.00
40.60	8.35	6.31	8.11	0.00
40.80	8.35	6.31	8.11	0.00
41.00	8.35	6.31	8.11	0.00
41.20	8.35	6.31	8.11	0.00
41.40	8.35	6.31	8.11	0.00

Hydrograph for Subcatchment P-1B-1: Area 1 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.31	8.11	0.00
41.80	8.35	6.31	8.11	0.00
42.00	8.35	6.31	8.11	0.00
42.20	8.35	6.31	8.11	0.00
42.40	8.35	6.31	8.11	0.00
42.60	8.35	6.31	8.11	0.00
42.80	8.35	6.31	8.11	0.00
43.00	8.35	6.31	8.11	0.00
43.20	8.35	6.31	8.11	0.00
43.40	8.35	6.31	8.11	0.00
43.60	8.35	6.31	8.11	0.00
43.80	8.35	6.31	8.11	0.00
44.00	8.35	6.31	8.11	0.00
44.20	8.35	6.31	8.11	0.00
44.40	8.35	6.31	8.11	0.00
44.60	8.35	6.31	8.11	0.00
44.80	8.35	6.31	8.11	0.00
45.00	8.35	6.31	8.11	0.00
45.20	8.35	6.31	8.11	0.00
45.40	8.35	6.31	8.11	0.00
45.60	8.35	6.31	8.11	0.00
45.80	8.35	6.31	8.11	0.00
46.00	8.35	6.31	8.11	0.00
46.20	8.35	6.31	8.11	0.00
46.40	8.35	6.31	8.11	0.00
46.60	8.35	6.31	8.11	0.00
46.80	8.35	6.31	8.11	0.00
47.00	8.35	6.31	8.11	0.00
47.20	8.35	6.31	8.11	0.00
47.40	8.35	6.31	8.11	0.00
47.60	8.35	6.31	8.11	0.00
47.80	8.35	6.31	8.11	0.00
48.00	8.35	6.31	8.11	0.00
48.20	8.35	6.31	8.11	0.00
48.40	8.35	6.31	8.11	0.00
48.60	8.35	6.31	8.11	0.00
48.80	8.35	6.31	8.11	0.00
49.00	8.35	6.31	8.11	0.00
49.20	8.35	6.31	8.11	0.00
49.40	8.35	6.31	8.11	0.00
49.60	8.35	6.31	8.11	0.00
49.80	8.35	6.31	8.11	0.00
50.00	8.35	6.31	8.11	0.00
50.20	8.35	6.31	8.11	0.00
50.40	8.35	6.31	8.11	0.00
50.60	8.35	6.31	8.11	0.00
50.80	8.35	6.31	8.11	0.00
51.00	8.35	6.31	8.11	0.00
51.20	8.35	6.31	8.11	0.00
51.40	8.35	6.31	8.11	0.00
51.60	8.35	6.31	8.11	0.00
51.80	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.31	8.11	0.00
52.20	8.35	6.31	8.11	0.00
52.40	8.35	6.31	8.11	0.00
52.60	8.35	6.31	8.11	0.00
52.80	8.35	6.31	8.11	0.00
53.00	8.35	6.31	8.11	0.00
53.20	8.35	6.31	8.11	0.00
53.40	8.35	6.31	8.11	0.00
53.60	8.35	6.31	8.11	0.00
53.80	8.35	6.31	8.11	0.00
54.00	8.35	6.31	8.11	0.00
54.20	8.35	6.31	8.11	0.00
54.40	8.35	6.31	8.11	0.00
54.60	8.35	6.31	8.11	0.00
54.80	8.35	6.31	8.11	0.00
55.00	8.35	6.31	8.11	0.00
55.20	8.35	6.31	8.11	0.00
55.40	8.35	6.31	8.11	0.00
55.60	8.35	6.31	8.11	0.00
55.80	8.35	6.31	8.11	0.00
56.00	8.35	6.31	8.11	0.00
56.20	8.35	6.31	8.11	0.00
56.40	8.35	6.31	8.11	0.00
56.60	8.35	6.31	8.11	0.00
56.80	8.35	6.31	8.11	0.00
57.00	8.35	6.31	8.11	0.00
57.20	8.35	6.31	8.11	0.00
57.40	8.35	6.31	8.11	0.00
57.60	8.35	6.31	8.11	0.00
57.80	8.35	6.31	8.11	0.00
58.00	8.35	6.31	8.11	0.00
58.20	8.35	6.31	8.11	0.00
58.40	8.35	6.31	8.11	0.00
58.60	8.35	6.31	8.11	0.00
58.80	8.35	6.31	8.11	0.00
59.00	8.35	6.31	8.11	0.00
59.20	8.35	6.31	8.11	0.00
59.40	8.35	6.31	8.11	0.00
59.60	8.35	6.31	8.11	0.00
59.80	8.35	6.31	8.11	0.00
60.00	8.35	6.31	8.11	0.00
60.20	8.35	6.31	8.11	0.00
60.40	8.35	6.31	8.11	0.00
60.60	8.35	6.31	8.11	0.00
60.80	8.35	6.31	8.11	0.00
61.00	8.35	6.31	8.11	0.00
61.20	8.35	6.31	8.11	0.00
61.40	8.35	6.31	8.11	0.00
61.60	8.35	6.31	8.11	0.00
61.80	8.35	6.31	8.11	0.00
62.00	8.35	6.31	8.11	0.00
62.20	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-1: Area 1 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.31	8.11	0.00
62.60	8.35	6.31	8.11	0.00
62.80	8.35	6.31	8.11	0.00
63.00	8.35	6.31	8.11	0.00
63.20	8.35	6.31	8.11	0.00
63.40	8.35	6.31	8.11	0.00
63.60	8.35	6.31	8.11	0.00
63.80	8.35	6.31	8.11	0.00
64.00	8.35	6.31	8.11	0.00
64.20	8.35	6.31	8.11	0.00
64.40	8.35	6.31	8.11	0.00
64.60	8.35	6.31	8.11	0.00
64.80	8.35	6.31	8.11	0.00
65.00	8.35	6.31	8.11	0.00
65.20	8.35	6.31	8.11	0.00
65.40	8.35	6.31	8.11	0.00
65.60	8.35	6.31	8.11	0.00
65.80	8.35	6.31	8.11	0.00
66.00	8.35	6.31	8.11	0.00
66.20	8.35	6.31	8.11	0.00
66.40	8.35	6.31	8.11	0.00
66.60	8.35	6.31	8.11	0.00
66.80	8.35	6.31	8.11	0.00
67.00	8.35	6.31	8.11	0.00
67.20	8.35	6.31	8.11	0.00
67.40	8.35	6.31	8.11	0.00
67.60	8.35	6.31	8.11	0.00
67.80	8.35	6.31	8.11	0.00
68.00	8.35	6.31	8.11	0.00
68.20	8.35	6.31	8.11	0.00
68.40	8.35	6.31	8.11	0.00
68.60	8.35	6.31	8.11	0.00
68.80	8.35	6.31	8.11	0.00
69.00	8.35	6.31	8.11	0.00
69.20	8.35	6.31	8.11	0.00
69.40	8.35	6.31	8.11	0.00
69.60	8.35	6.31	8.11	0.00
69.80	8.35	6.31	8.11	0.00
70.00	8.35	6.31	8.11	0.00
70.20	8.35	6.31	8.11	0.00
70.40	8.35	6.31	8.11	0.00
70.60	8.35	6.31	8.11	0.00
70.80	8.35	6.31	8.11	0.00
71.00	8.35	6.31	8.11	0.00
71.20	8.35	6.31	8.11	0.00
71.40	8.35	6.31	8.11	0.00
71.60	8.35	6.31	8.11	0.00
71.80	8.35	6.31	8.11	0.00
72.00	8.35	6.31	8.11	0.00

**Summary for Subcatchment P-1B-2: Area 2**

Runoff = 0.91 cfs @ 12.10 hrs, Volume= 2,862 cf, Depth= 7.09"  
 Routed to Pond PV-2 : Pervious Pavers 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,573	98	Impervious
*	325	98	MVS - Impervious
*	2,214	85	MVS - Pervious Pavers
	732	80	>75% Grass cover, Good, HSG D
	4,844	89	Weighted Average
	2,946	84	60.82% Pervious Area
	1,898	98	39.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.4	16	0.0145	0.11		<b>Sheet Flow, 2b1-2b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0145	2.44		<b>Shallow Concentrated Flow, 2b2-2b3</b>
					Paved Kv= 20.3 fps
2.5	29	Total			

**Hydrograph for Subcatchment P-1B-2: Area 2**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.00
2.00	0.20	0.00	0.07	0.00
2.20	0.22	0.00	0.09	0.00
2.40	0.24	0.00	0.10	0.00
2.60	0.27	0.00	0.12	0.00
2.80	0.29	0.00	0.14	0.00
3.00	0.31	0.00	0.16	0.00
3.20	0.34	0.00	0.18	0.00
3.40	0.36	0.00	0.20	0.00
3.60	0.39	0.00	0.22	0.00
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.03	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.04	0.49	0.01
6.00	0.71	0.05	0.52	0.01
6.20	0.74	0.06	0.54	0.01
6.40	0.78	0.07	0.57	0.01
6.60	0.81	0.08	0.61	0.01
6.80	0.84	0.09	0.64	0.01
7.00	0.88	0.10	0.67	0.01
7.20	0.92	0.12	0.71	0.01
7.40	0.96	0.13	0.75	0.01
7.60	1.00	0.15	0.79	0.01
7.80	1.04	0.17	0.83	0.02
8.00	1.08	0.19	0.87	0.02
8.20	1.13	0.21	0.92	0.02
8.40	1.18	0.23	0.96	0.02
8.60	1.22	0.26	1.01	0.02
8.80	1.27	0.28	1.06	0.02
9.00	1.32	0.31	1.11	0.02
9.20	1.38	0.34	1.16	0.02
9.40	1.44	0.38	1.22	0.03
9.60	1.51	0.42	1.29	0.03
9.80	1.58	0.46	1.36	0.03
10.00	1.66	0.51	1.43	0.03
10.20	1.74	0.56	1.51	0.04



**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.62	1.60	0.04
10.60	1.92	0.69	1.70	0.05
10.80	2.04	0.77	1.81	0.06
11.00	2.17	0.87	1.94	0.07
11.20	2.34	0.99	2.11	0.08
11.40	2.53	1.14	2.31	0.10
11.60	2.80	1.35	2.57	0.15
11.80	3.18	1.66	2.94	0.22
12.00	4.00	2.37	3.77	<b>0.54</b>
12.20	5.17	3.43	4.94	<b>0.33</b>
12.40	5.55	3.78	5.31	0.17
12.60	5.82	4.02	5.58	0.12
12.80	6.01	4.21	5.78	0.10
13.00	6.18	4.36	5.94	0.08
13.20	6.31	4.49	6.08	0.07
13.40	6.43	4.60	6.19	0.06
13.60	6.53	4.69	6.29	0.05
13.80	6.61	4.77	6.37	0.05
14.00	6.69	4.85	6.46	0.04
14.20	6.77	4.92	6.53	0.04
14.40	6.84	4.99	6.60	0.04
14.60	6.91	5.05	6.67	0.04
14.80	6.97	5.11	6.73	0.03
15.00	7.03	5.16	6.79	0.03
15.20	7.08	5.21	6.84	0.03
15.40	7.13	5.26	6.89	0.03
15.60	7.17	5.31	6.94	0.03
15.80	7.22	5.35	6.98	0.03
16.00	7.27	5.39	7.03	0.02
16.20	7.31	5.44	7.07	0.02
16.40	7.35	5.48	7.11	0.02
16.60	7.39	5.51	7.15	0.02
16.80	7.43	5.55	7.19	0.02
17.00	7.47	5.59	7.23	0.02
17.20	7.51	5.62	7.27	0.02
17.40	7.54	5.66	7.30	0.02
17.60	7.57	5.69	7.34	0.02
17.80	7.61	5.72	7.37	0.02
18.00	7.64	5.75	7.40	0.02
18.20	7.67	5.78	7.43	0.02
18.40	7.70	5.80	7.46	0.02
18.60	7.72	5.83	7.48	0.02
18.80	7.75	5.86	7.51	0.02
19.00	7.78	5.88	7.54	0.02
19.20	7.81	5.91	7.57	0.01
19.40	7.83	5.94	7.59	0.01
19.60	7.86	5.96	7.62	0.01
19.80	7.89	5.99	7.65	0.01
20.00	7.91	6.01	7.67	0.01
20.20	7.94	6.04	7.70	0.01
20.40	7.96	6.06	7.72	0.01
20.60	7.99	6.08	7.75	0.01

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.11	7.77	0.01
21.00	8.04	6.13	7.80	0.01
21.20	8.06	6.15	7.82	0.01
21.40	8.08	6.17	7.84	0.01
21.60	8.11	6.20	7.87	0.01
21.80	8.13	6.22	7.89	0.01
22.00	8.15	6.24	7.91	0.01
22.20	8.17	6.26	7.93	0.01
22.40	8.19	6.28	7.95	0.01
22.60	8.21	6.30	7.97	0.01
22.80	8.23	6.32	7.99	0.01
23.00	8.25	6.34	8.01	0.01
23.20	8.27	6.36	8.03	0.01
23.40	8.29	6.38	8.05	0.01
23.60	8.31	6.40	8.07	0.01
23.80	8.33	6.41	8.09	0.01
24.00	<b>8.35</b>	<b>6.43</b>	<b>8.11</b>	0.01
24.20	8.35	6.43	8.11	0.00
24.40	8.35	6.43	8.11	0.00
24.60	8.35	6.43	8.11	0.00
24.80	8.35	6.43	8.11	0.00
25.00	8.35	6.43	8.11	0.00
25.20	8.35	6.43	8.11	0.00
25.40	8.35	6.43	8.11	0.00
25.60	8.35	6.43	8.11	0.00
25.80	8.35	6.43	8.11	0.00
26.00	8.35	6.43	8.11	0.00
26.20	8.35	6.43	8.11	0.00
26.40	8.35	6.43	8.11	0.00
26.60	8.35	6.43	8.11	0.00
26.80	8.35	6.43	8.11	0.00
27.00	8.35	6.43	8.11	0.00
27.20	8.35	6.43	8.11	0.00
27.40	8.35	6.43	8.11	0.00
27.60	8.35	6.43	8.11	0.00
27.80	8.35	6.43	8.11	0.00
28.00	8.35	6.43	8.11	0.00
28.20	8.35	6.43	8.11	0.00
28.40	8.35	6.43	8.11	0.00
28.60	8.35	6.43	8.11	0.00
28.80	8.35	6.43	8.11	0.00
29.00	8.35	6.43	8.11	0.00
29.20	8.35	6.43	8.11	0.00
29.40	8.35	6.43	8.11	0.00
29.60	8.35	6.43	8.11	0.00
29.80	8.35	6.43	8.11	0.00
30.00	8.35	6.43	8.11	0.00
30.20	8.35	6.43	8.11	0.00
30.40	8.35	6.43	8.11	0.00
30.60	8.35	6.43	8.11	0.00
30.80	8.35	6.43	8.11	0.00
31.00	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.43	8.11	0.00
31.40	8.35	6.43	8.11	0.00
31.60	8.35	6.43	8.11	0.00
31.80	8.35	6.43	8.11	0.00
32.00	8.35	6.43	8.11	0.00
32.20	8.35	6.43	8.11	0.00
32.40	8.35	6.43	8.11	0.00
32.60	8.35	6.43	8.11	0.00
32.80	8.35	6.43	8.11	0.00
33.00	8.35	6.43	8.11	0.00
33.20	8.35	6.43	8.11	0.00
33.40	8.35	6.43	8.11	0.00
33.60	8.35	6.43	8.11	0.00
33.80	8.35	6.43	8.11	0.00
34.00	8.35	6.43	8.11	0.00
34.20	8.35	6.43	8.11	0.00
34.40	8.35	6.43	8.11	0.00
34.60	8.35	6.43	8.11	0.00
34.80	8.35	6.43	8.11	0.00
35.00	8.35	6.43	8.11	0.00
35.20	8.35	6.43	8.11	0.00
35.40	8.35	6.43	8.11	0.00
35.60	8.35	6.43	8.11	0.00
35.80	8.35	6.43	8.11	0.00
36.00	8.35	6.43	8.11	0.00
36.20	8.35	6.43	8.11	0.00
36.40	8.35	6.43	8.11	0.00
36.60	8.35	6.43	8.11	0.00
36.80	8.35	6.43	8.11	0.00
37.00	8.35	6.43	8.11	0.00
37.20	8.35	6.43	8.11	0.00
37.40	8.35	6.43	8.11	0.00
37.60	8.35	6.43	8.11	0.00
37.80	8.35	6.43	8.11	0.00
38.00	8.35	6.43	8.11	0.00
38.20	8.35	6.43	8.11	0.00
38.40	8.35	6.43	8.11	0.00
38.60	8.35	6.43	8.11	0.00
38.80	8.35	6.43	8.11	0.00
39.00	8.35	6.43	8.11	0.00
39.20	8.35	6.43	8.11	0.00
39.40	8.35	6.43	8.11	0.00
39.60	8.35	6.43	8.11	0.00
39.80	8.35	6.43	8.11	0.00
40.00	8.35	6.43	8.11	0.00
40.20	8.35	6.43	8.11	0.00
40.40	8.35	6.43	8.11	0.00
40.60	8.35	6.43	8.11	0.00
40.80	8.35	6.43	8.11	0.00
41.00	8.35	6.43	8.11	0.00
41.20	8.35	6.43	8.11	0.00
41.40	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.43	8.11	0.00
41.80	8.35	6.43	8.11	0.00
42.00	8.35	6.43	8.11	0.00
42.20	8.35	6.43	8.11	0.00
42.40	8.35	6.43	8.11	0.00
42.60	8.35	6.43	8.11	0.00
42.80	8.35	6.43	8.11	0.00
43.00	8.35	6.43	8.11	0.00
43.20	8.35	6.43	8.11	0.00
43.40	8.35	6.43	8.11	0.00
43.60	8.35	6.43	8.11	0.00
43.80	8.35	6.43	8.11	0.00
44.00	8.35	6.43	8.11	0.00
44.20	8.35	6.43	8.11	0.00
44.40	8.35	6.43	8.11	0.00
44.60	8.35	6.43	8.11	0.00
44.80	8.35	6.43	8.11	0.00
45.00	8.35	6.43	8.11	0.00
45.20	8.35	6.43	8.11	0.00
45.40	8.35	6.43	8.11	0.00
45.60	8.35	6.43	8.11	0.00
45.80	8.35	6.43	8.11	0.00
46.00	8.35	6.43	8.11	0.00
46.20	8.35	6.43	8.11	0.00
46.40	8.35	6.43	8.11	0.00
46.60	8.35	6.43	8.11	0.00
46.80	8.35	6.43	8.11	0.00
47.00	8.35	6.43	8.11	0.00
47.20	8.35	6.43	8.11	0.00
47.40	8.35	6.43	8.11	0.00
47.60	8.35	6.43	8.11	0.00
47.80	8.35	6.43	8.11	0.00
48.00	8.35	6.43	8.11	0.00
48.20	8.35	6.43	8.11	0.00
48.40	8.35	6.43	8.11	0.00
48.60	8.35	6.43	8.11	0.00
48.80	8.35	6.43	8.11	0.00
49.00	8.35	6.43	8.11	0.00
49.20	8.35	6.43	8.11	0.00
49.40	8.35	6.43	8.11	0.00
49.60	8.35	6.43	8.11	0.00
49.80	8.35	6.43	8.11	0.00
50.00	8.35	6.43	8.11	0.00
50.20	8.35	6.43	8.11	0.00
50.40	8.35	6.43	8.11	0.00
50.60	8.35	6.43	8.11	0.00
50.80	8.35	6.43	8.11	0.00
51.00	8.35	6.43	8.11	0.00
51.20	8.35	6.43	8.11	0.00
51.40	8.35	6.43	8.11	0.00
51.60	8.35	6.43	8.11	0.00
51.80	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.43	8.11	0.00
52.20	8.35	6.43	8.11	0.00
52.40	8.35	6.43	8.11	0.00
52.60	8.35	6.43	8.11	0.00
52.80	8.35	6.43	8.11	0.00
53.00	8.35	6.43	8.11	0.00
53.20	8.35	6.43	8.11	0.00
53.40	8.35	6.43	8.11	0.00
53.60	8.35	6.43	8.11	0.00
53.80	8.35	6.43	8.11	0.00
54.00	8.35	6.43	8.11	0.00
54.20	8.35	6.43	8.11	0.00
54.40	8.35	6.43	8.11	0.00
54.60	8.35	6.43	8.11	0.00
54.80	8.35	6.43	8.11	0.00
55.00	8.35	6.43	8.11	0.00
55.20	8.35	6.43	8.11	0.00
55.40	8.35	6.43	8.11	0.00
55.60	8.35	6.43	8.11	0.00
55.80	8.35	6.43	8.11	0.00
56.00	8.35	6.43	8.11	0.00
56.20	8.35	6.43	8.11	0.00
56.40	8.35	6.43	8.11	0.00
56.60	8.35	6.43	8.11	0.00
56.80	8.35	6.43	8.11	0.00
57.00	8.35	6.43	8.11	0.00
57.20	8.35	6.43	8.11	0.00
57.40	8.35	6.43	8.11	0.00
57.60	8.35	6.43	8.11	0.00
57.80	8.35	6.43	8.11	0.00
58.00	8.35	6.43	8.11	0.00
58.20	8.35	6.43	8.11	0.00
58.40	8.35	6.43	8.11	0.00
58.60	8.35	6.43	8.11	0.00
58.80	8.35	6.43	8.11	0.00
59.00	8.35	6.43	8.11	0.00
59.20	8.35	6.43	8.11	0.00
59.40	8.35	6.43	8.11	0.00
59.60	8.35	6.43	8.11	0.00
59.80	8.35	6.43	8.11	0.00
60.00	8.35	6.43	8.11	0.00
60.20	8.35	6.43	8.11	0.00
60.40	8.35	6.43	8.11	0.00
60.60	8.35	6.43	8.11	0.00
60.80	8.35	6.43	8.11	0.00
61.00	8.35	6.43	8.11	0.00
61.20	8.35	6.43	8.11	0.00
61.40	8.35	6.43	8.11	0.00
61.60	8.35	6.43	8.11	0.00
61.80	8.35	6.43	8.11	0.00
62.00	8.35	6.43	8.11	0.00
62.20	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-2: Area 2 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.43	8.11	0.00
62.60	8.35	6.43	8.11	0.00
62.80	8.35	6.43	8.11	0.00
63.00	8.35	6.43	8.11	0.00
63.20	8.35	6.43	8.11	0.00
63.40	8.35	6.43	8.11	0.00
63.60	8.35	6.43	8.11	0.00
63.80	8.35	6.43	8.11	0.00
64.00	8.35	6.43	8.11	0.00
64.20	8.35	6.43	8.11	0.00
64.40	8.35	6.43	8.11	0.00
64.60	8.35	6.43	8.11	0.00
64.80	8.35	6.43	8.11	0.00
65.00	8.35	6.43	8.11	0.00
65.20	8.35	6.43	8.11	0.00
65.40	8.35	6.43	8.11	0.00
65.60	8.35	6.43	8.11	0.00
65.80	8.35	6.43	8.11	0.00
66.00	8.35	6.43	8.11	0.00
66.20	8.35	6.43	8.11	0.00
66.40	8.35	6.43	8.11	0.00
66.60	8.35	6.43	8.11	0.00
66.80	8.35	6.43	8.11	0.00
67.00	8.35	6.43	8.11	0.00
67.20	8.35	6.43	8.11	0.00
67.40	8.35	6.43	8.11	0.00
67.60	8.35	6.43	8.11	0.00
67.80	8.35	6.43	8.11	0.00
68.00	8.35	6.43	8.11	0.00
68.20	8.35	6.43	8.11	0.00
68.40	8.35	6.43	8.11	0.00
68.60	8.35	6.43	8.11	0.00
68.80	8.35	6.43	8.11	0.00
69.00	8.35	6.43	8.11	0.00
69.20	8.35	6.43	8.11	0.00
69.40	8.35	6.43	8.11	0.00
69.60	8.35	6.43	8.11	0.00
69.80	8.35	6.43	8.11	0.00
70.00	8.35	6.43	8.11	0.00
70.20	8.35	6.43	8.11	0.00
70.40	8.35	6.43	8.11	0.00
70.60	8.35	6.43	8.11	0.00
70.80	8.35	6.43	8.11	0.00
71.00	8.35	6.43	8.11	0.00
71.20	8.35	6.43	8.11	0.00
71.40	8.35	6.43	8.11	0.00
71.60	8.35	6.43	8.11	0.00
71.80	8.35	6.43	8.11	0.00
72.00	8.35	6.43	8.11	0.00

**Summary for Subcatchment P-1B-3: Area 3**

Runoff = 1.23 cfs @ 12.11 hrs, Volume= 3,906 cf, Depth= 7.11"  
 Routed to Pond PV-3 : Pervious Pavers 3

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
* 917	98	Impervious
* 2,010	98	MVS - Impervious
* 2,400	85	MVS - Pervious Pavers
1,265	80	>75% Grass cover, Good, HSG D
6,592	90	Weighted Average
3,665	83	55.60% Pervious Area
2,927	98	44.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	15	0.0082	0.09		<b>Sheet Flow, 3b1-3b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	31	0.0082	1.84		<b>Shallow Concentrated Flow, 3b2-3b3</b>
					Paved Kv= 20.3 fps
3.2	46	Total			

**Hydrograph for Subcatchment P-1B-3: Area 3**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.00
2.00	0.20	0.00	0.07	0.00
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.00	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.01	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.02	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.03	0.49	0.01
6.00	0.71	0.04	0.52	0.01
6.20	0.74	0.05	0.54	0.01
6.40	0.78	0.06	0.57	0.01
6.60	0.81	0.06	0.61	0.02
6.80	0.84	0.08	0.64	0.02
7.00	0.88	0.09	0.67	0.02
7.20	0.92	0.10	0.71	0.02
7.40	0.96	0.12	0.75	0.02
7.60	1.00	0.13	0.79	0.02
7.80	1.04	0.15	0.83	0.02
8.00	1.08	0.17	0.87	0.02
8.20	1.13	0.19	0.92	0.02
8.40	1.18	0.21	0.96	0.02
8.60	1.22	0.23	1.01	0.03
8.80	1.27	0.26	1.06	0.03
9.00	1.32	0.28	1.11	0.03
9.20	1.38	0.31	1.16	0.03
9.40	1.44	0.35	1.22	0.04
9.60	1.51	0.38	1.29	0.04
9.80	1.58	0.42	1.36	0.04
10.00	1.66	0.47	1.43	0.05
10.20	1.74	0.52	1.51	0.05



**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.58	1.60	0.05
10.60	1.92	0.64	1.70	0.06
10.80	2.04	0.72	1.81	0.08
11.00	2.17	0.81	1.94	0.09
11.20	2.34	0.93	2.11	0.11
11.40	2.53	1.08	2.31	0.14
11.60	2.80	1.29	2.57	0.20
11.80	3.18	1.59	2.94	0.29
12.00	4.00	2.29	3.77	<b>0.72</b>
12.20	5.17	3.33	4.94	<b>0.47</b>
12.40	5.55	3.68	5.31	0.23
12.60	5.82	3.92	5.58	0.17
12.80	6.01	4.10	5.78	0.14
13.00	6.18	4.26	5.94	0.12
13.20	6.31	4.38	6.08	0.10
13.40	6.43	4.49	6.19	0.08
13.60	6.53	4.58	6.29	0.07
13.80	6.61	4.66	6.37	0.06
14.00	6.69	4.74	6.46	0.06
14.20	6.77	4.81	6.53	0.06
14.40	6.84	4.88	6.60	0.05
14.60	6.91	4.94	6.67	0.05
14.80	6.97	5.00	6.73	0.04
15.00	7.03	5.05	6.79	0.04
15.20	7.08	5.10	6.84	0.04
15.40	7.13	5.15	6.89	0.04
15.60	7.17	5.19	6.94	0.04
15.80	7.22	5.24	6.98	0.03
16.00	7.27	5.28	7.03	0.03
16.20	7.31	5.32	7.07	0.03
16.40	7.35	5.36	7.11	0.03
16.60	7.39	5.40	7.15	0.03
16.80	7.43	5.44	7.19	0.03
17.00	7.47	5.47	7.23	0.03
17.20	7.51	5.51	7.27	0.03
17.40	7.54	5.54	7.30	0.03
17.60	7.57	5.57	7.34	0.02
17.80	7.61	5.60	7.37	0.02
18.00	7.64	5.63	7.40	0.02
18.20	7.67	5.66	7.43	0.02
18.40	7.70	5.69	7.46	0.02
18.60	7.72	5.71	7.48	0.02
18.80	7.75	5.74	7.51	0.02
19.00	7.78	5.77	7.54	0.02
19.20	7.81	5.79	7.57	0.02
19.40	7.83	5.82	7.59	0.02
19.60	7.86	5.84	7.62	0.02
19.80	7.89	5.87	7.65	0.02
20.00	7.91	5.89	7.67	0.02
20.20	7.94	5.92	7.70	0.02
20.40	7.96	5.94	7.72	0.02
20.60	7.99	5.97	7.75	0.02

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	5.99	7.77	0.02
21.00	8.04	6.01	7.80	0.02
21.20	8.06	6.03	7.82	0.02
21.40	8.08	6.06	7.84	0.02
21.60	8.11	6.08	7.87	0.02
21.80	8.13	6.10	7.89	0.02
22.00	8.15	6.12	7.91	0.02
22.20	8.17	6.14	7.93	0.02
22.40	8.19	6.16	7.95	0.02
22.60	8.21	6.18	7.97	0.02
22.80	8.23	6.20	7.99	0.02
23.00	8.25	6.22	8.01	0.01
23.20	8.27	6.24	8.03	0.01
23.40	8.29	6.26	8.05	0.01
23.60	8.31	6.28	8.07	0.01
23.80	8.33	6.29	8.09	0.01
24.00	<b>8.35</b>	<b>6.31</b>	<b>8.11</b>	0.01
24.20	8.35	6.31	8.11	0.00
24.40	8.35	6.31	8.11	0.00
24.60	8.35	6.31	8.11	0.00
24.80	8.35	6.31	8.11	0.00
25.00	8.35	6.31	8.11	0.00
25.20	8.35	6.31	8.11	0.00
25.40	8.35	6.31	8.11	0.00
25.60	8.35	6.31	8.11	0.00
25.80	8.35	6.31	8.11	0.00
26.00	8.35	6.31	8.11	0.00
26.20	8.35	6.31	8.11	0.00
26.40	8.35	6.31	8.11	0.00
26.60	8.35	6.31	8.11	0.00
26.80	8.35	6.31	8.11	0.00
27.00	8.35	6.31	8.11	0.00
27.20	8.35	6.31	8.11	0.00
27.40	8.35	6.31	8.11	0.00
27.60	8.35	6.31	8.11	0.00
27.80	8.35	6.31	8.11	0.00
28.00	8.35	6.31	8.11	0.00
28.20	8.35	6.31	8.11	0.00
28.40	8.35	6.31	8.11	0.00
28.60	8.35	6.31	8.11	0.00
28.80	8.35	6.31	8.11	0.00
29.00	8.35	6.31	8.11	0.00
29.20	8.35	6.31	8.11	0.00
29.40	8.35	6.31	8.11	0.00
29.60	8.35	6.31	8.11	0.00
29.80	8.35	6.31	8.11	0.00
30.00	8.35	6.31	8.11	0.00
30.20	8.35	6.31	8.11	0.00
30.40	8.35	6.31	8.11	0.00
30.60	8.35	6.31	8.11	0.00
30.80	8.35	6.31	8.11	0.00
31.00	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.31	8.11	0.00
31.40	8.35	6.31	8.11	0.00
31.60	8.35	6.31	8.11	0.00
31.80	8.35	6.31	8.11	0.00
32.00	8.35	6.31	8.11	0.00
32.20	8.35	6.31	8.11	0.00
32.40	8.35	6.31	8.11	0.00
32.60	8.35	6.31	8.11	0.00
32.80	8.35	6.31	8.11	0.00
33.00	8.35	6.31	8.11	0.00
33.20	8.35	6.31	8.11	0.00
33.40	8.35	6.31	8.11	0.00
33.60	8.35	6.31	8.11	0.00
33.80	8.35	6.31	8.11	0.00
34.00	8.35	6.31	8.11	0.00
34.20	8.35	6.31	8.11	0.00
34.40	8.35	6.31	8.11	0.00
34.60	8.35	6.31	8.11	0.00
34.80	8.35	6.31	8.11	0.00
35.00	8.35	6.31	8.11	0.00
35.20	8.35	6.31	8.11	0.00
35.40	8.35	6.31	8.11	0.00
35.60	8.35	6.31	8.11	0.00
35.80	8.35	6.31	8.11	0.00
36.00	8.35	6.31	8.11	0.00
36.20	8.35	6.31	8.11	0.00
36.40	8.35	6.31	8.11	0.00
36.60	8.35	6.31	8.11	0.00
36.80	8.35	6.31	8.11	0.00
37.00	8.35	6.31	8.11	0.00
37.20	8.35	6.31	8.11	0.00
37.40	8.35	6.31	8.11	0.00
37.60	8.35	6.31	8.11	0.00
37.80	8.35	6.31	8.11	0.00
38.00	8.35	6.31	8.11	0.00
38.20	8.35	6.31	8.11	0.00
38.40	8.35	6.31	8.11	0.00
38.60	8.35	6.31	8.11	0.00
38.80	8.35	6.31	8.11	0.00
39.00	8.35	6.31	8.11	0.00
39.20	8.35	6.31	8.11	0.00
39.40	8.35	6.31	8.11	0.00
39.60	8.35	6.31	8.11	0.00
39.80	8.35	6.31	8.11	0.00
40.00	8.35	6.31	8.11	0.00
40.20	8.35	6.31	8.11	0.00
40.40	8.35	6.31	8.11	0.00
40.60	8.35	6.31	8.11	0.00
40.80	8.35	6.31	8.11	0.00
41.00	8.35	6.31	8.11	0.00
41.20	8.35	6.31	8.11	0.00
41.40	8.35	6.31	8.11	0.00

Hydrograph for Subcatchment P-1B-3: Area 3 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.31	8.11	0.00
41.80	8.35	6.31	8.11	0.00
42.00	8.35	6.31	8.11	0.00
42.20	8.35	6.31	8.11	0.00
42.40	8.35	6.31	8.11	0.00
42.60	8.35	6.31	8.11	0.00
42.80	8.35	6.31	8.11	0.00
43.00	8.35	6.31	8.11	0.00
43.20	8.35	6.31	8.11	0.00
43.40	8.35	6.31	8.11	0.00
43.60	8.35	6.31	8.11	0.00
43.80	8.35	6.31	8.11	0.00
44.00	8.35	6.31	8.11	0.00
44.20	8.35	6.31	8.11	0.00
44.40	8.35	6.31	8.11	0.00
44.60	8.35	6.31	8.11	0.00
44.80	8.35	6.31	8.11	0.00
45.00	8.35	6.31	8.11	0.00
45.20	8.35	6.31	8.11	0.00
45.40	8.35	6.31	8.11	0.00
45.60	8.35	6.31	8.11	0.00
45.80	8.35	6.31	8.11	0.00
46.00	8.35	6.31	8.11	0.00
46.20	8.35	6.31	8.11	0.00
46.40	8.35	6.31	8.11	0.00
46.60	8.35	6.31	8.11	0.00
46.80	8.35	6.31	8.11	0.00
47.00	8.35	6.31	8.11	0.00
47.20	8.35	6.31	8.11	0.00
47.40	8.35	6.31	8.11	0.00
47.60	8.35	6.31	8.11	0.00
47.80	8.35	6.31	8.11	0.00
48.00	8.35	6.31	8.11	0.00
48.20	8.35	6.31	8.11	0.00
48.40	8.35	6.31	8.11	0.00
48.60	8.35	6.31	8.11	0.00
48.80	8.35	6.31	8.11	0.00
49.00	8.35	6.31	8.11	0.00
49.20	8.35	6.31	8.11	0.00
49.40	8.35	6.31	8.11	0.00
49.60	8.35	6.31	8.11	0.00
49.80	8.35	6.31	8.11	0.00
50.00	8.35	6.31	8.11	0.00
50.20	8.35	6.31	8.11	0.00
50.40	8.35	6.31	8.11	0.00
50.60	8.35	6.31	8.11	0.00
50.80	8.35	6.31	8.11	0.00
51.00	8.35	6.31	8.11	0.00
51.20	8.35	6.31	8.11	0.00
51.40	8.35	6.31	8.11	0.00
51.60	8.35	6.31	8.11	0.00
51.80	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.31	8.11	0.00
52.20	8.35	6.31	8.11	0.00
52.40	8.35	6.31	8.11	0.00
52.60	8.35	6.31	8.11	0.00
52.80	8.35	6.31	8.11	0.00
53.00	8.35	6.31	8.11	0.00
53.20	8.35	6.31	8.11	0.00
53.40	8.35	6.31	8.11	0.00
53.60	8.35	6.31	8.11	0.00
53.80	8.35	6.31	8.11	0.00
54.00	8.35	6.31	8.11	0.00
54.20	8.35	6.31	8.11	0.00
54.40	8.35	6.31	8.11	0.00
54.60	8.35	6.31	8.11	0.00
54.80	8.35	6.31	8.11	0.00
55.00	8.35	6.31	8.11	0.00
55.20	8.35	6.31	8.11	0.00
55.40	8.35	6.31	8.11	0.00
55.60	8.35	6.31	8.11	0.00
55.80	8.35	6.31	8.11	0.00
56.00	8.35	6.31	8.11	0.00
56.20	8.35	6.31	8.11	0.00
56.40	8.35	6.31	8.11	0.00
56.60	8.35	6.31	8.11	0.00
56.80	8.35	6.31	8.11	0.00
57.00	8.35	6.31	8.11	0.00
57.20	8.35	6.31	8.11	0.00
57.40	8.35	6.31	8.11	0.00
57.60	8.35	6.31	8.11	0.00
57.80	8.35	6.31	8.11	0.00
58.00	8.35	6.31	8.11	0.00
58.20	8.35	6.31	8.11	0.00
58.40	8.35	6.31	8.11	0.00
58.60	8.35	6.31	8.11	0.00
58.80	8.35	6.31	8.11	0.00
59.00	8.35	6.31	8.11	0.00
59.20	8.35	6.31	8.11	0.00
59.40	8.35	6.31	8.11	0.00
59.60	8.35	6.31	8.11	0.00
59.80	8.35	6.31	8.11	0.00
60.00	8.35	6.31	8.11	0.00
60.20	8.35	6.31	8.11	0.00
60.40	8.35	6.31	8.11	0.00
60.60	8.35	6.31	8.11	0.00
60.80	8.35	6.31	8.11	0.00
61.00	8.35	6.31	8.11	0.00
61.20	8.35	6.31	8.11	0.00
61.40	8.35	6.31	8.11	0.00
61.60	8.35	6.31	8.11	0.00
61.80	8.35	6.31	8.11	0.00
62.00	8.35	6.31	8.11	0.00
62.20	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-3: Area 3 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.31	8.11	0.00
62.60	8.35	6.31	8.11	0.00
62.80	8.35	6.31	8.11	0.00
63.00	8.35	6.31	8.11	0.00
63.20	8.35	6.31	8.11	0.00
63.40	8.35	6.31	8.11	0.00
63.60	8.35	6.31	8.11	0.00
63.80	8.35	6.31	8.11	0.00
64.00	8.35	6.31	8.11	0.00
64.20	8.35	6.31	8.11	0.00
64.40	8.35	6.31	8.11	0.00
64.60	8.35	6.31	8.11	0.00
64.80	8.35	6.31	8.11	0.00
65.00	8.35	6.31	8.11	0.00
65.20	8.35	6.31	8.11	0.00
65.40	8.35	6.31	8.11	0.00
65.60	8.35	6.31	8.11	0.00
65.80	8.35	6.31	8.11	0.00
66.00	8.35	6.31	8.11	0.00
66.20	8.35	6.31	8.11	0.00
66.40	8.35	6.31	8.11	0.00
66.60	8.35	6.31	8.11	0.00
66.80	8.35	6.31	8.11	0.00
67.00	8.35	6.31	8.11	0.00
67.20	8.35	6.31	8.11	0.00
67.40	8.35	6.31	8.11	0.00
67.60	8.35	6.31	8.11	0.00
67.80	8.35	6.31	8.11	0.00
68.00	8.35	6.31	8.11	0.00
68.20	8.35	6.31	8.11	0.00
68.40	8.35	6.31	8.11	0.00
68.60	8.35	6.31	8.11	0.00
68.80	8.35	6.31	8.11	0.00
69.00	8.35	6.31	8.11	0.00
69.20	8.35	6.31	8.11	0.00
69.40	8.35	6.31	8.11	0.00
69.60	8.35	6.31	8.11	0.00
69.80	8.35	6.31	8.11	0.00
70.00	8.35	6.31	8.11	0.00
70.20	8.35	6.31	8.11	0.00
70.40	8.35	6.31	8.11	0.00
70.60	8.35	6.31	8.11	0.00
70.80	8.35	6.31	8.11	0.00
71.00	8.35	6.31	8.11	0.00
71.20	8.35	6.31	8.11	0.00
71.40	8.35	6.31	8.11	0.00
71.60	8.35	6.31	8.11	0.00
71.80	8.35	6.31	8.11	0.00
72.00	8.35	6.31	8.11	0.00

**Summary for Subcatchment P-1B-4: Area 4**

Runoff = 1.03 cfs @ 12.11 hrs, Volume= 3,306 cf, Depth= 7.17"  
 Routed to Pond PV-4 : Pervious Pavers 4

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,848	98	Impervious
*	601	98	MVS - Impervious
*	2,211	85	MVS - Pervious Pavers
	870	80	>75% Grass cover, Good, HSG D
	5,530	90	Weighted Average
	3,081	84	55.71% Pervious Area
	2,449	98	44.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	23	0.0100	0.10		<b>Sheet Flow, 4b1-4b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.0	1	0.0100	2.03		<b>Shallow Concentrated Flow, 4b2-4b3</b>
					Paved Kv= 20.3 fps
3.8	24	Total			

**Hydrograph for Subcatchment P-1B-4: Area 4**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.00
2.00	0.20	0.00	0.07	0.00
2.20	0.22	0.00	0.09	0.00
2.40	0.24	0.00	0.10	0.00
2.60	0.27	0.00	0.12	0.00
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.03	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.04	0.49	0.01
6.00	0.71	0.05	0.52	0.01
6.20	0.74	0.06	0.54	0.01
6.40	0.78	0.07	0.57	0.01
6.60	0.81	0.08	0.61	0.01
6.80	0.84	0.09	0.64	0.01
7.00	0.88	0.10	0.67	0.01
7.20	0.92	0.12	0.71	0.02
7.40	0.96	0.13	0.75	0.02
7.60	1.00	0.15	0.79	0.02
7.80	1.04	0.17	0.83	0.02
8.00	1.08	0.19	0.87	0.02
8.20	1.13	0.21	0.92	0.02
8.40	1.18	0.23	0.96	0.02
8.60	1.22	0.26	1.01	0.02
8.80	1.27	0.28	1.06	0.02
9.00	1.32	0.31	1.11	0.02
9.20	1.38	0.34	1.16	0.03
9.40	1.44	0.38	1.22	0.03
9.60	1.51	0.42	1.29	0.03
9.80	1.58	0.46	1.36	0.04
10.00	1.66	0.51	1.43	0.04
10.20	1.74	0.56	1.51	0.04



**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.62	1.60	0.05
10.60	1.92	0.69	1.70	0.05
10.80	2.04	0.77	1.81	0.06
11.00	2.17	0.87	1.94	0.07
11.20	2.34	0.99	2.11	0.09
11.40	2.53	1.14	2.31	0.11
11.60	2.80	1.35	2.57	0.17
11.80	3.18	1.66	2.94	0.25
12.00	4.00	2.37	3.77	<b>0.60</b>
12.20	5.17	3.43	4.94	<b>0.43</b>
12.40	5.55	3.78	5.31	0.20
12.60	5.82	4.02	5.58	0.14
12.80	6.01	4.21	5.78	0.12
13.00	6.18	4.36	5.94	0.10
13.20	6.31	4.49	6.08	0.08
13.40	6.43	4.60	6.19	0.07
13.60	6.53	4.69	6.29	0.06
13.80	6.61	4.77	6.37	0.05
14.00	6.69	4.85	6.46	0.05
14.20	6.77	4.92	6.53	0.05
14.40	6.84	4.99	6.60	0.04
14.60	6.91	5.05	6.67	0.04
14.80	6.97	5.11	6.73	0.04
15.00	7.03	5.16	6.79	0.03
15.20	7.08	5.21	6.84	0.03
15.40	7.13	5.26	6.89	0.03
15.60	7.17	5.31	6.94	0.03
15.80	7.22	5.35	6.98	0.03
16.00	7.27	5.39	7.03	0.03
16.20	7.31	5.44	7.07	0.03
16.40	7.35	5.48	7.11	0.03
16.60	7.39	5.51	7.15	0.03
16.80	7.43	5.55	7.19	0.02
17.00	7.47	5.59	7.23	0.02
17.20	7.51	5.62	7.27	0.02
17.40	7.54	5.66	7.30	0.02
17.60	7.57	5.69	7.34	0.02
17.80	7.61	5.72	7.37	0.02
18.00	7.64	5.75	7.40	0.02
18.20	7.67	5.78	7.43	0.02
18.40	7.70	5.80	7.46	0.02
18.60	7.72	5.83	7.48	0.02
18.80	7.75	5.86	7.51	0.02
19.00	7.78	5.88	7.54	0.02
19.20	7.81	5.91	7.57	0.02
19.40	7.83	5.94	7.59	0.02
19.60	7.86	5.96	7.62	0.02
19.80	7.89	5.99	7.65	0.02
20.00	7.91	6.01	7.67	0.02
20.20	7.94	6.04	7.70	0.02
20.40	7.96	6.06	7.72	0.02
20.60	7.99	6.08	7.75	0.02

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.11	7.77	0.02
21.00	8.04	6.13	7.80	0.01
21.20	8.06	6.15	7.82	0.01
21.40	8.08	6.17	7.84	0.01
21.60	8.11	6.20	7.87	0.01
21.80	8.13	6.22	7.89	0.01
22.00	8.15	6.24	7.91	0.01
22.20	8.17	6.26	7.93	0.01
22.40	8.19	6.28	7.95	0.01
22.60	8.21	6.30	7.97	0.01
22.80	8.23	6.32	7.99	0.01
23.00	8.25	6.34	8.01	0.01
23.20	8.27	6.36	8.03	0.01
23.40	8.29	6.38	8.05	0.01
23.60	8.31	6.40	8.07	0.01
23.80	8.33	6.41	8.09	0.01
24.00	<b>8.35</b>	<b>6.43</b>	<b>8.11</b>	0.01
24.20	8.35	6.43	8.11	0.00
24.40	8.35	6.43	8.11	0.00
24.60	8.35	6.43	8.11	0.00
24.80	8.35	6.43	8.11	0.00
25.00	8.35	6.43	8.11	0.00
25.20	8.35	6.43	8.11	0.00
25.40	8.35	6.43	8.11	0.00
25.60	8.35	6.43	8.11	0.00
25.80	8.35	6.43	8.11	0.00
26.00	8.35	6.43	8.11	0.00
26.20	8.35	6.43	8.11	0.00
26.40	8.35	6.43	8.11	0.00
26.60	8.35	6.43	8.11	0.00
26.80	8.35	6.43	8.11	0.00
27.00	8.35	6.43	8.11	0.00
27.20	8.35	6.43	8.11	0.00
27.40	8.35	6.43	8.11	0.00
27.60	8.35	6.43	8.11	0.00
27.80	8.35	6.43	8.11	0.00
28.00	8.35	6.43	8.11	0.00
28.20	8.35	6.43	8.11	0.00
28.40	8.35	6.43	8.11	0.00
28.60	8.35	6.43	8.11	0.00
28.80	8.35	6.43	8.11	0.00
29.00	8.35	6.43	8.11	0.00
29.20	8.35	6.43	8.11	0.00
29.40	8.35	6.43	8.11	0.00
29.60	8.35	6.43	8.11	0.00
29.80	8.35	6.43	8.11	0.00
30.00	8.35	6.43	8.11	0.00
30.20	8.35	6.43	8.11	0.00
30.40	8.35	6.43	8.11	0.00
30.60	8.35	6.43	8.11	0.00
30.80	8.35	6.43	8.11	0.00
31.00	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.43	8.11	0.00
31.40	8.35	6.43	8.11	0.00
31.60	8.35	6.43	8.11	0.00
31.80	8.35	6.43	8.11	0.00
32.00	8.35	6.43	8.11	0.00
32.20	8.35	6.43	8.11	0.00
32.40	8.35	6.43	8.11	0.00
32.60	8.35	6.43	8.11	0.00
32.80	8.35	6.43	8.11	0.00
33.00	8.35	6.43	8.11	0.00
33.20	8.35	6.43	8.11	0.00
33.40	8.35	6.43	8.11	0.00
33.60	8.35	6.43	8.11	0.00
33.80	8.35	6.43	8.11	0.00
34.00	8.35	6.43	8.11	0.00
34.20	8.35	6.43	8.11	0.00
34.40	8.35	6.43	8.11	0.00
34.60	8.35	6.43	8.11	0.00
34.80	8.35	6.43	8.11	0.00
35.00	8.35	6.43	8.11	0.00
35.20	8.35	6.43	8.11	0.00
35.40	8.35	6.43	8.11	0.00
35.60	8.35	6.43	8.11	0.00
35.80	8.35	6.43	8.11	0.00
36.00	8.35	6.43	8.11	0.00
36.20	8.35	6.43	8.11	0.00
36.40	8.35	6.43	8.11	0.00
36.60	8.35	6.43	8.11	0.00
36.80	8.35	6.43	8.11	0.00
37.00	8.35	6.43	8.11	0.00
37.20	8.35	6.43	8.11	0.00
37.40	8.35	6.43	8.11	0.00
37.60	8.35	6.43	8.11	0.00
37.80	8.35	6.43	8.11	0.00
38.00	8.35	6.43	8.11	0.00
38.20	8.35	6.43	8.11	0.00
38.40	8.35	6.43	8.11	0.00
38.60	8.35	6.43	8.11	0.00
38.80	8.35	6.43	8.11	0.00
39.00	8.35	6.43	8.11	0.00
39.20	8.35	6.43	8.11	0.00
39.40	8.35	6.43	8.11	0.00
39.60	8.35	6.43	8.11	0.00
39.80	8.35	6.43	8.11	0.00
40.00	8.35	6.43	8.11	0.00
40.20	8.35	6.43	8.11	0.00
40.40	8.35	6.43	8.11	0.00
40.60	8.35	6.43	8.11	0.00
40.80	8.35	6.43	8.11	0.00
41.00	8.35	6.43	8.11	0.00
41.20	8.35	6.43	8.11	0.00
41.40	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.43	8.11	0.00
41.80	8.35	6.43	8.11	0.00
42.00	8.35	6.43	8.11	0.00
42.20	8.35	6.43	8.11	0.00
42.40	8.35	6.43	8.11	0.00
42.60	8.35	6.43	8.11	0.00
42.80	8.35	6.43	8.11	0.00
43.00	8.35	6.43	8.11	0.00
43.20	8.35	6.43	8.11	0.00
43.40	8.35	6.43	8.11	0.00
43.60	8.35	6.43	8.11	0.00
43.80	8.35	6.43	8.11	0.00
44.00	8.35	6.43	8.11	0.00
44.20	8.35	6.43	8.11	0.00
44.40	8.35	6.43	8.11	0.00
44.60	8.35	6.43	8.11	0.00
44.80	8.35	6.43	8.11	0.00
45.00	8.35	6.43	8.11	0.00
45.20	8.35	6.43	8.11	0.00
45.40	8.35	6.43	8.11	0.00
45.60	8.35	6.43	8.11	0.00
45.80	8.35	6.43	8.11	0.00
46.00	8.35	6.43	8.11	0.00
46.20	8.35	6.43	8.11	0.00
46.40	8.35	6.43	8.11	0.00
46.60	8.35	6.43	8.11	0.00
46.80	8.35	6.43	8.11	0.00
47.00	8.35	6.43	8.11	0.00
47.20	8.35	6.43	8.11	0.00
47.40	8.35	6.43	8.11	0.00
47.60	8.35	6.43	8.11	0.00
47.80	8.35	6.43	8.11	0.00
48.00	8.35	6.43	8.11	0.00
48.20	8.35	6.43	8.11	0.00
48.40	8.35	6.43	8.11	0.00
48.60	8.35	6.43	8.11	0.00
48.80	8.35	6.43	8.11	0.00
49.00	8.35	6.43	8.11	0.00
49.20	8.35	6.43	8.11	0.00
49.40	8.35	6.43	8.11	0.00
49.60	8.35	6.43	8.11	0.00
49.80	8.35	6.43	8.11	0.00
50.00	8.35	6.43	8.11	0.00
50.20	8.35	6.43	8.11	0.00
50.40	8.35	6.43	8.11	0.00
50.60	8.35	6.43	8.11	0.00
50.80	8.35	6.43	8.11	0.00
51.00	8.35	6.43	8.11	0.00
51.20	8.35	6.43	8.11	0.00
51.40	8.35	6.43	8.11	0.00
51.60	8.35	6.43	8.11	0.00
51.80	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1B-4: Area 4 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.43	8.11	0.00
52.20	8.35	6.43	8.11	0.00
52.40	8.35	6.43	8.11	0.00
52.60	8.35	6.43	8.11	0.00
52.80	8.35	6.43	8.11	0.00
53.00	8.35	6.43	8.11	0.00
53.20	8.35	6.43	8.11	0.00
53.40	8.35	6.43	8.11	0.00
53.60	8.35	6.43	8.11	0.00
53.80	8.35	6.43	8.11	0.00
54.00	8.35	6.43	8.11	0.00
54.20	8.35	6.43	8.11	0.00
54.40	8.35	6.43	8.11	0.00
54.60	8.35	6.43	8.11	0.00
54.80	8.35	6.43	8.11	0.00
55.00	8.35	6.43	8.11	0.00
55.20	8.35	6.43	8.11	0.00
55.40	8.35	6.43	8.11	0.00
55.60	8.35	6.43	8.11	0.00
55.80	8.35	6.43	8.11	0.00
56.00	8.35	6.43	8.11	0.00
56.20	8.35	6.43	8.11	0.00
56.40	8.35	6.43	8.11	0.00
56.60	8.35	6.43	8.11	0.00
56.80	8.35	6.43	8.11	0.00
57.00	8.35	6.43	8.11	0.00
57.20	8.35	6.43	8.11	0.00
57.40	8.35	6.43	8.11	0.00
57.60	8.35	6.43	8.11	0.00
57.80	8.35	6.43	8.11	0.00
58.00	8.35	6.43	8.11	0.00
58.20	8.35	6.43	8.11	0.00
58.40	8.35	6.43	8.11	0.00
58.60	8.35	6.43	8.11	0.00
58.80	8.35	6.43	8.11	0.00
59.00	8.35	6.43	8.11	0.00
59.20	8.35	6.43	8.11	0.00
59.40	8.35	6.43	8.11	0.00
59.60	8.35	6.43	8.11	0.00
59.80	8.35	6.43	8.11	0.00
60.00	8.35	6.43	8.11	0.00
60.20	8.35	6.43	8.11	0.00
60.40	8.35	6.43	8.11	0.00
60.60	8.35	6.43	8.11	0.00
60.80	8.35	6.43	8.11	0.00
61.00	8.35	6.43	8.11	0.00
61.20	8.35	6.43	8.11	0.00
61.40	8.35	6.43	8.11	0.00
61.60	8.35	6.43	8.11	0.00
61.80	8.35	6.43	8.11	0.00
62.00	8.35	6.43	8.11	0.00
62.20	8.35	6.43	8.11	0.00

Hydrograph for Subcatchment P-1B-4: Area 4 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.43	8.11	0.00
62.60	8.35	6.43	8.11	0.00
62.80	8.35	6.43	8.11	0.00
63.00	8.35	6.43	8.11	0.00
63.20	8.35	6.43	8.11	0.00
63.40	8.35	6.43	8.11	0.00
63.60	8.35	6.43	8.11	0.00
63.80	8.35	6.43	8.11	0.00
64.00	8.35	6.43	8.11	0.00
64.20	8.35	6.43	8.11	0.00
64.40	8.35	6.43	8.11	0.00
64.60	8.35	6.43	8.11	0.00
64.80	8.35	6.43	8.11	0.00
65.00	8.35	6.43	8.11	0.00
65.20	8.35	6.43	8.11	0.00
65.40	8.35	6.43	8.11	0.00
65.60	8.35	6.43	8.11	0.00
65.80	8.35	6.43	8.11	0.00
66.00	8.35	6.43	8.11	0.00
66.20	8.35	6.43	8.11	0.00
66.40	8.35	6.43	8.11	0.00
66.60	8.35	6.43	8.11	0.00
66.80	8.35	6.43	8.11	0.00
67.00	8.35	6.43	8.11	0.00
67.20	8.35	6.43	8.11	0.00
67.40	8.35	6.43	8.11	0.00
67.60	8.35	6.43	8.11	0.00
67.80	8.35	6.43	8.11	0.00
68.00	8.35	6.43	8.11	0.00
68.20	8.35	6.43	8.11	0.00
68.40	8.35	6.43	8.11	0.00
68.60	8.35	6.43	8.11	0.00
68.80	8.35	6.43	8.11	0.00
69.00	8.35	6.43	8.11	0.00
69.20	8.35	6.43	8.11	0.00
69.40	8.35	6.43	8.11	0.00
69.60	8.35	6.43	8.11	0.00
69.80	8.35	6.43	8.11	0.00
70.00	8.35	6.43	8.11	0.00
70.20	8.35	6.43	8.11	0.00
70.40	8.35	6.43	8.11	0.00
70.60	8.35	6.43	8.11	0.00
70.80	8.35	6.43	8.11	0.00
71.00	8.35	6.43	8.11	0.00
71.20	8.35	6.43	8.11	0.00
71.40	8.35	6.43	8.11	0.00
71.60	8.35	6.43	8.11	0.00
71.80	8.35	6.43	8.11	0.00
72.00	8.35	6.43	8.11	0.00

**Summary for Subcatchment P-1B-5: Area 5**

Runoff = 1.16 cfs @ 12.11 hrs, Volume= 3,637 cf, Depth= 6.94"  
 Routed to Pond PV-5 : Pervious Pavers 5

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,998	98	Impervious
*	212	98	MVS - Impervious
*	2,400	85	MVS - Pervious
	1,675	80	>75% Grass cover, Good, HSG D
	6,285	88	Weighted Average
	4,075	83	64.84% Pervious Area
	2,210	98	35.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.0	16	0.0090	0.09		<b>Sheet Flow, 5b1-5b2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.1	17	0.0090	1.93		<b>Shallow Concentrated Flow, 5b2-5b3</b>
					Paved Kv= 20.3 fps
3.1	33	Total			

**Hydrograph for Subcatchment P-1B-5: Area 5**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.00
2.00	0.20	0.00	0.07	0.00
2.20	0.22	0.00	0.09	0.00
2.40	0.24	0.00	0.10	0.00
2.60	0.27	0.00	0.12	0.00
2.80	0.29	0.00	0.14	0.00
3.00	0.31	0.00	0.16	0.00
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.00	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.01	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.02	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.03	0.49	0.01
6.00	0.71	0.04	0.52	0.01
6.20	0.74	0.05	0.54	0.01
6.40	0.78	0.06	0.57	0.01
6.60	0.81	0.06	0.61	0.01
6.80	0.84	0.08	0.64	0.01
7.00	0.88	0.09	0.67	0.01
7.20	0.92	0.10	0.71	0.02
7.40	0.96	0.12	0.75	0.02
7.60	1.00	0.13	0.79	0.02
7.80	1.04	0.15	0.83	0.02
8.00	1.08	0.17	0.87	0.02
8.20	1.13	0.19	0.92	0.02
8.40	1.18	0.21	0.96	0.02
8.60	1.22	0.23	1.01	0.02
8.80	1.27	0.26	1.06	0.02
9.00	1.32	0.28	1.11	0.03
9.20	1.38	0.31	1.16	0.03
9.40	1.44	0.35	1.22	0.03
9.60	1.51	0.38	1.29	0.04
9.80	1.58	0.42	1.36	0.04
10.00	1.66	0.47	1.43	0.04
10.20	1.74	0.52	1.51	0.05



**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.58	1.60	0.05
10.60	1.92	0.64	1.70	0.06
10.80	2.04	0.72	1.81	0.07
11.00	2.17	0.81	1.94	0.08
11.20	2.34	0.93	2.11	0.10
11.40	2.53	1.08	2.31	0.13
11.60	2.80	1.29	2.57	0.19
11.80	3.18	1.59	2.94	0.28
12.00	4.00	2.29	3.77	<b>0.68</b>
12.20	5.17	3.33	4.94	<b>0.44</b>
12.40	5.55	3.68	5.31	0.22
12.60	5.82	3.92	5.58	0.16
12.80	6.01	4.10	5.78	0.13
13.00	6.18	4.26	5.94	0.11
13.20	6.31	4.38	6.08	0.09
13.40	6.43	4.49	6.19	0.08
13.60	6.53	4.58	6.29	0.06
13.80	6.61	4.66	6.37	0.06
14.00	6.69	4.74	6.46	0.06
14.20	6.77	4.81	6.53	0.05
14.40	6.84	4.88	6.60	0.05
14.60	6.91	4.94	6.67	0.05
14.80	6.97	5.00	6.73	0.04
15.00	7.03	5.05	6.79	0.04
15.20	7.08	5.10	6.84	0.04
15.40	7.13	5.15	6.89	0.03
15.60	7.17	5.19	6.94	0.03
15.80	7.22	5.24	6.98	0.03
16.00	7.27	5.28	7.03	0.03
16.20	7.31	5.32	7.07	0.03
16.40	7.35	5.36	7.11	0.03
16.60	7.39	5.40	7.15	0.03
16.80	7.43	5.44	7.19	0.03
17.00	7.47	5.47	7.23	0.03
17.20	7.51	5.51	7.27	0.03
17.40	7.54	5.54	7.30	0.02
17.60	7.57	5.57	7.34	0.02
17.80	7.61	5.60	7.37	0.02
18.00	7.64	5.63	7.40	0.02
18.20	7.67	5.66	7.43	0.02
18.40	7.70	5.69	7.46	0.02
18.60	7.72	5.71	7.48	0.02
18.80	7.75	5.74	7.51	0.02
19.00	7.78	5.77	7.54	0.02
19.20	7.81	5.79	7.57	0.02
19.40	7.83	5.82	7.59	0.02
19.60	7.86	5.84	7.62	0.02
19.80	7.89	5.87	7.65	0.02
20.00	7.91	5.89	7.67	0.02
20.20	7.94	5.92	7.70	0.02
20.40	7.96	5.94	7.72	0.02
20.60	7.99	5.97	7.75	0.02

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	5.99	7.77	0.02
21.00	8.04	6.01	7.80	0.02
21.20	8.06	6.03	7.82	0.02
21.40	8.08	6.06	7.84	0.02
21.60	8.11	6.08	7.87	0.02
21.80	8.13	6.10	7.89	0.02
22.00	8.15	6.12	7.91	0.02
22.20	8.17	6.14	7.93	0.02
22.40	8.19	6.16	7.95	0.01
22.60	8.21	6.18	7.97	0.01
22.80	8.23	6.20	7.99	0.01
23.00	8.25	6.22	8.01	0.01
23.20	8.27	6.24	8.03	0.01
23.40	8.29	6.26	8.05	0.01
23.60	8.31	6.28	8.07	0.01
23.80	8.33	6.29	8.09	0.01
24.00	<b>8.35</b>	<b>6.31</b>	<b>8.11</b>	0.01
24.20	8.35	6.31	8.11	0.00
24.40	8.35	6.31	8.11	0.00
24.60	8.35	6.31	8.11	0.00
24.80	8.35	6.31	8.11	0.00
25.00	8.35	6.31	8.11	0.00
25.20	8.35	6.31	8.11	0.00
25.40	8.35	6.31	8.11	0.00
25.60	8.35	6.31	8.11	0.00
25.80	8.35	6.31	8.11	0.00
26.00	8.35	6.31	8.11	0.00
26.20	8.35	6.31	8.11	0.00
26.40	8.35	6.31	8.11	0.00
26.60	8.35	6.31	8.11	0.00
26.80	8.35	6.31	8.11	0.00
27.00	8.35	6.31	8.11	0.00
27.20	8.35	6.31	8.11	0.00
27.40	8.35	6.31	8.11	0.00
27.60	8.35	6.31	8.11	0.00
27.80	8.35	6.31	8.11	0.00
28.00	8.35	6.31	8.11	0.00
28.20	8.35	6.31	8.11	0.00
28.40	8.35	6.31	8.11	0.00
28.60	8.35	6.31	8.11	0.00
28.80	8.35	6.31	8.11	0.00
29.00	8.35	6.31	8.11	0.00
29.20	8.35	6.31	8.11	0.00
29.40	8.35	6.31	8.11	0.00
29.60	8.35	6.31	8.11	0.00
29.80	8.35	6.31	8.11	0.00
30.00	8.35	6.31	8.11	0.00
30.20	8.35	6.31	8.11	0.00
30.40	8.35	6.31	8.11	0.00
30.60	8.35	6.31	8.11	0.00
30.80	8.35	6.31	8.11	0.00
31.00	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.31	8.11	0.00
31.40	8.35	6.31	8.11	0.00
31.60	8.35	6.31	8.11	0.00
31.80	8.35	6.31	8.11	0.00
32.00	8.35	6.31	8.11	0.00
32.20	8.35	6.31	8.11	0.00
32.40	8.35	6.31	8.11	0.00
32.60	8.35	6.31	8.11	0.00
32.80	8.35	6.31	8.11	0.00
33.00	8.35	6.31	8.11	0.00
33.20	8.35	6.31	8.11	0.00
33.40	8.35	6.31	8.11	0.00
33.60	8.35	6.31	8.11	0.00
33.80	8.35	6.31	8.11	0.00
34.00	8.35	6.31	8.11	0.00
34.20	8.35	6.31	8.11	0.00
34.40	8.35	6.31	8.11	0.00
34.60	8.35	6.31	8.11	0.00
34.80	8.35	6.31	8.11	0.00
35.00	8.35	6.31	8.11	0.00
35.20	8.35	6.31	8.11	0.00
35.40	8.35	6.31	8.11	0.00
35.60	8.35	6.31	8.11	0.00
35.80	8.35	6.31	8.11	0.00
36.00	8.35	6.31	8.11	0.00
36.20	8.35	6.31	8.11	0.00
36.40	8.35	6.31	8.11	0.00
36.60	8.35	6.31	8.11	0.00
36.80	8.35	6.31	8.11	0.00
37.00	8.35	6.31	8.11	0.00
37.20	8.35	6.31	8.11	0.00
37.40	8.35	6.31	8.11	0.00
37.60	8.35	6.31	8.11	0.00
37.80	8.35	6.31	8.11	0.00
38.00	8.35	6.31	8.11	0.00
38.20	8.35	6.31	8.11	0.00
38.40	8.35	6.31	8.11	0.00
38.60	8.35	6.31	8.11	0.00
38.80	8.35	6.31	8.11	0.00
39.00	8.35	6.31	8.11	0.00
39.20	8.35	6.31	8.11	0.00
39.40	8.35	6.31	8.11	0.00
39.60	8.35	6.31	8.11	0.00
39.80	8.35	6.31	8.11	0.00
40.00	8.35	6.31	8.11	0.00
40.20	8.35	6.31	8.11	0.00
40.40	8.35	6.31	8.11	0.00
40.60	8.35	6.31	8.11	0.00
40.80	8.35	6.31	8.11	0.00
41.00	8.35	6.31	8.11	0.00
41.20	8.35	6.31	8.11	0.00
41.40	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.31	8.11	0.00
41.80	8.35	6.31	8.11	0.00
42.00	8.35	6.31	8.11	0.00
42.20	8.35	6.31	8.11	0.00
42.40	8.35	6.31	8.11	0.00
42.60	8.35	6.31	8.11	0.00
42.80	8.35	6.31	8.11	0.00
43.00	8.35	6.31	8.11	0.00
43.20	8.35	6.31	8.11	0.00
43.40	8.35	6.31	8.11	0.00
43.60	8.35	6.31	8.11	0.00
43.80	8.35	6.31	8.11	0.00
44.00	8.35	6.31	8.11	0.00
44.20	8.35	6.31	8.11	0.00
44.40	8.35	6.31	8.11	0.00
44.60	8.35	6.31	8.11	0.00
44.80	8.35	6.31	8.11	0.00
45.00	8.35	6.31	8.11	0.00
45.20	8.35	6.31	8.11	0.00
45.40	8.35	6.31	8.11	0.00
45.60	8.35	6.31	8.11	0.00
45.80	8.35	6.31	8.11	0.00
46.00	8.35	6.31	8.11	0.00
46.20	8.35	6.31	8.11	0.00
46.40	8.35	6.31	8.11	0.00
46.60	8.35	6.31	8.11	0.00
46.80	8.35	6.31	8.11	0.00
47.00	8.35	6.31	8.11	0.00
47.20	8.35	6.31	8.11	0.00
47.40	8.35	6.31	8.11	0.00
47.60	8.35	6.31	8.11	0.00
47.80	8.35	6.31	8.11	0.00
48.00	8.35	6.31	8.11	0.00
48.20	8.35	6.31	8.11	0.00
48.40	8.35	6.31	8.11	0.00
48.60	8.35	6.31	8.11	0.00
48.80	8.35	6.31	8.11	0.00
49.00	8.35	6.31	8.11	0.00
49.20	8.35	6.31	8.11	0.00
49.40	8.35	6.31	8.11	0.00
49.60	8.35	6.31	8.11	0.00
49.80	8.35	6.31	8.11	0.00
50.00	8.35	6.31	8.11	0.00
50.20	8.35	6.31	8.11	0.00
50.40	8.35	6.31	8.11	0.00
50.60	8.35	6.31	8.11	0.00
50.80	8.35	6.31	8.11	0.00
51.00	8.35	6.31	8.11	0.00
51.20	8.35	6.31	8.11	0.00
51.40	8.35	6.31	8.11	0.00
51.60	8.35	6.31	8.11	0.00
51.80	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.31	8.11	0.00
52.20	8.35	6.31	8.11	0.00
52.40	8.35	6.31	8.11	0.00
52.60	8.35	6.31	8.11	0.00
52.80	8.35	6.31	8.11	0.00
53.00	8.35	6.31	8.11	0.00
53.20	8.35	6.31	8.11	0.00
53.40	8.35	6.31	8.11	0.00
53.60	8.35	6.31	8.11	0.00
53.80	8.35	6.31	8.11	0.00
54.00	8.35	6.31	8.11	0.00
54.20	8.35	6.31	8.11	0.00
54.40	8.35	6.31	8.11	0.00
54.60	8.35	6.31	8.11	0.00
54.80	8.35	6.31	8.11	0.00
55.00	8.35	6.31	8.11	0.00
55.20	8.35	6.31	8.11	0.00
55.40	8.35	6.31	8.11	0.00
55.60	8.35	6.31	8.11	0.00
55.80	8.35	6.31	8.11	0.00
56.00	8.35	6.31	8.11	0.00
56.20	8.35	6.31	8.11	0.00
56.40	8.35	6.31	8.11	0.00
56.60	8.35	6.31	8.11	0.00
56.80	8.35	6.31	8.11	0.00
57.00	8.35	6.31	8.11	0.00
57.20	8.35	6.31	8.11	0.00
57.40	8.35	6.31	8.11	0.00
57.60	8.35	6.31	8.11	0.00
57.80	8.35	6.31	8.11	0.00
58.00	8.35	6.31	8.11	0.00
58.20	8.35	6.31	8.11	0.00
58.40	8.35	6.31	8.11	0.00
58.60	8.35	6.31	8.11	0.00
58.80	8.35	6.31	8.11	0.00
59.00	8.35	6.31	8.11	0.00
59.20	8.35	6.31	8.11	0.00
59.40	8.35	6.31	8.11	0.00
59.60	8.35	6.31	8.11	0.00
59.80	8.35	6.31	8.11	0.00
60.00	8.35	6.31	8.11	0.00
60.20	8.35	6.31	8.11	0.00
60.40	8.35	6.31	8.11	0.00
60.60	8.35	6.31	8.11	0.00
60.80	8.35	6.31	8.11	0.00
61.00	8.35	6.31	8.11	0.00
61.20	8.35	6.31	8.11	0.00
61.40	8.35	6.31	8.11	0.00
61.60	8.35	6.31	8.11	0.00
61.80	8.35	6.31	8.11	0.00
62.00	8.35	6.31	8.11	0.00
62.20	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-5: Area 5 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.31	8.11	0.00
62.60	8.35	6.31	8.11	0.00
62.80	8.35	6.31	8.11	0.00
63.00	8.35	6.31	8.11	0.00
63.20	8.35	6.31	8.11	0.00
63.40	8.35	6.31	8.11	0.00
63.60	8.35	6.31	8.11	0.00
63.80	8.35	6.31	8.11	0.00
64.00	8.35	6.31	8.11	0.00
64.20	8.35	6.31	8.11	0.00
64.40	8.35	6.31	8.11	0.00
64.60	8.35	6.31	8.11	0.00
64.80	8.35	6.31	8.11	0.00
65.00	8.35	6.31	8.11	0.00
65.20	8.35	6.31	8.11	0.00
65.40	8.35	6.31	8.11	0.00
65.60	8.35	6.31	8.11	0.00
65.80	8.35	6.31	8.11	0.00
66.00	8.35	6.31	8.11	0.00
66.20	8.35	6.31	8.11	0.00
66.40	8.35	6.31	8.11	0.00
66.60	8.35	6.31	8.11	0.00
66.80	8.35	6.31	8.11	0.00
67.00	8.35	6.31	8.11	0.00
67.20	8.35	6.31	8.11	0.00
67.40	8.35	6.31	8.11	0.00
67.60	8.35	6.31	8.11	0.00
67.80	8.35	6.31	8.11	0.00
68.00	8.35	6.31	8.11	0.00
68.20	8.35	6.31	8.11	0.00
68.40	8.35	6.31	8.11	0.00
68.60	8.35	6.31	8.11	0.00
68.80	8.35	6.31	8.11	0.00
69.00	8.35	6.31	8.11	0.00
69.20	8.35	6.31	8.11	0.00
69.40	8.35	6.31	8.11	0.00
69.60	8.35	6.31	8.11	0.00
69.80	8.35	6.31	8.11	0.00
70.00	8.35	6.31	8.11	0.00
70.20	8.35	6.31	8.11	0.00
70.40	8.35	6.31	8.11	0.00
70.60	8.35	6.31	8.11	0.00
70.80	8.35	6.31	8.11	0.00
71.00	8.35	6.31	8.11	0.00
71.20	8.35	6.31	8.11	0.00
71.40	8.35	6.31	8.11	0.00
71.60	8.35	6.31	8.11	0.00
71.80	8.35	6.31	8.11	0.00
72.00	8.35	6.31	8.11	0.00

**Summary for Subcatchment P-1B-6: Area 6**

Runoff = 0.99 cfs @ 12.14 hrs, Volume= 3,655 cf, Depth= 7.40"  
 Routed to Pond PV-6 : Pervious Pavers 6

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	1,338	98	Impervious
*	2,242	98	MVS - Impervious
*	1,486	85	MVS - Pervious Pavers
	863	80	>75% Grass cover, Good, HSG D
	5,929	92	Weighted Average
	2,349	83	39.62% Pervious Area
	3,580	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	58	0.0120	0.13		<b>Sheet Flow, 6b1-6b2</b> Grass: Short n= 0.150 P2= 3.54"
0.1	13	0.0120	2.22		<b>Shallow Concentrated Flow, 6b2-6b3</b> Paved Kv= 20.3 fps
7.5	71	Total			

**Hydrograph for Subcatchment P-1B-6: Area 6**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.00	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.01	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.02	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.03	0.49	0.01
6.00	0.71	0.04	0.52	0.01
6.20	0.74	0.05	0.54	0.01
6.40	0.78	0.06	0.57	0.01
6.60	0.81	0.06	0.61	0.02
6.80	0.84	0.08	0.64	0.02
7.00	0.88	0.09	0.67	0.02
7.20	0.92	0.10	0.71	0.02
7.40	0.96	0.12	0.75	0.02
7.60	1.00	0.13	0.79	0.02
7.80	1.04	0.15	0.83	0.02
8.00	1.08	0.17	0.87	0.02
8.20	1.13	0.19	0.92	0.02
8.40	1.18	0.21	0.96	0.02
8.60	1.22	0.23	1.01	0.03
8.80	1.27	0.26	1.06	0.03
9.00	1.32	0.28	1.11	0.03
9.20	1.38	0.31	1.16	0.03
9.40	1.44	0.35	1.22	0.03
9.60	1.51	0.38	1.29	0.04
9.80	1.58	0.42	1.36	0.04
10.00	1.66	0.47	1.43	0.04
10.20	1.74	0.52	1.51	0.05



**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.58	1.60	0.05
10.60	1.92	0.64	1.70	0.06
10.80	2.04	0.72	1.81	0.07
11.00	2.17	0.81	1.94	0.08
11.20	2.34	0.93	2.11	0.10
11.40	2.53	1.08	2.31	0.12
11.60	2.80	1.29	2.57	0.16
11.80	3.18	1.59	2.94	0.23
12.00	4.00	2.29	3.77	<b>0.51</b>
12.20	5.17	3.33	4.94	<b>0.77</b>
12.40	5.55	3.68	5.31	0.27
12.60	5.82	3.92	5.58	0.18
12.80	6.01	4.10	5.78	0.13
13.00	6.18	4.26	5.94	0.11
13.20	6.31	4.38	6.08	0.09
13.40	6.43	4.49	6.19	0.08
13.60	6.53	4.58	6.29	0.07
13.80	6.61	4.66	6.37	0.06
14.00	6.69	4.74	6.46	0.06
14.20	6.77	4.81	6.53	0.05
14.40	6.84	4.88	6.60	0.05
14.60	6.91	4.94	6.67	0.04
14.80	6.97	5.00	6.73	0.04
15.00	7.03	5.05	6.79	0.04
15.20	7.08	5.10	6.84	0.03
15.40	7.13	5.15	6.89	0.03
15.60	7.17	5.19	6.94	0.03
15.80	7.22	5.24	6.98	0.03
16.00	7.27	5.28	7.03	0.03
16.20	7.31	5.32	7.07	0.03
16.40	7.35	5.36	7.11	0.03
16.60	7.39	5.40	7.15	0.03
16.80	7.43	5.44	7.19	0.03
17.00	7.47	5.47	7.23	0.03
17.20	7.51	5.51	7.27	0.02
17.40	7.54	5.54	7.30	0.02
17.60	7.57	5.57	7.34	0.02
17.80	7.61	5.60	7.37	0.02
18.00	7.64	5.63	7.40	0.02
18.20	7.67	5.66	7.43	0.02
18.40	7.70	5.69	7.46	0.02
18.60	7.72	5.71	7.48	0.02
18.80	7.75	5.74	7.51	0.02
19.00	7.78	5.77	7.54	0.02
19.20	7.81	5.79	7.57	0.02
19.40	7.83	5.82	7.59	0.02
19.60	7.86	5.84	7.62	0.02
19.80	7.89	5.87	7.65	0.02
20.00	7.91	5.89	7.67	0.02
20.20	7.94	5.92	7.70	0.02
20.40	7.96	5.94	7.72	0.02
20.60	7.99	5.97	7.75	0.02

**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	5.99	7.77	0.02
21.00	8.04	6.01	7.80	0.02
21.20	8.06	6.03	7.82	0.02
21.40	8.08	6.06	7.84	0.02
21.60	8.11	6.08	7.87	0.02
21.80	8.13	6.10	7.89	0.02
22.00	8.15	6.12	7.91	0.01
22.20	8.17	6.14	7.93	0.01
22.40	8.19	6.16	7.95	0.01
22.60	8.21	6.18	7.97	0.01
22.80	8.23	6.20	7.99	0.01
23.00	8.25	6.22	8.01	0.01
23.20	8.27	6.24	8.03	0.01
23.40	8.29	6.26	8.05	0.01
23.60	8.31	6.28	8.07	0.01
23.80	8.33	6.29	8.09	0.01
24.00	<b>8.35</b>	<b>6.31</b>	<b>8.11</b>	0.01
24.20	8.35	6.31	8.11	0.00
24.40	8.35	6.31	8.11	0.00
24.60	8.35	6.31	8.11	0.00
24.80	8.35	6.31	8.11	0.00
25.00	8.35	6.31	8.11	0.00
25.20	8.35	6.31	8.11	0.00
25.40	8.35	6.31	8.11	0.00
25.60	8.35	6.31	8.11	0.00
25.80	8.35	6.31	8.11	0.00
26.00	8.35	6.31	8.11	0.00
26.20	8.35	6.31	8.11	0.00
26.40	8.35	6.31	8.11	0.00
26.60	8.35	6.31	8.11	0.00
26.80	8.35	6.31	8.11	0.00
27.00	8.35	6.31	8.11	0.00
27.20	8.35	6.31	8.11	0.00
27.40	8.35	6.31	8.11	0.00
27.60	8.35	6.31	8.11	0.00
27.80	8.35	6.31	8.11	0.00
28.00	8.35	6.31	8.11	0.00
28.20	8.35	6.31	8.11	0.00
28.40	8.35	6.31	8.11	0.00
28.60	8.35	6.31	8.11	0.00
28.80	8.35	6.31	8.11	0.00
29.00	8.35	6.31	8.11	0.00
29.20	8.35	6.31	8.11	0.00
29.40	8.35	6.31	8.11	0.00
29.60	8.35	6.31	8.11	0.00
29.80	8.35	6.31	8.11	0.00
30.00	8.35	6.31	8.11	0.00
30.20	8.35	6.31	8.11	0.00
30.40	8.35	6.31	8.11	0.00
30.60	8.35	6.31	8.11	0.00
30.80	8.35	6.31	8.11	0.00
31.00	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.31	8.11	0.00
31.40	8.35	6.31	8.11	0.00
31.60	8.35	6.31	8.11	0.00
31.80	8.35	6.31	8.11	0.00
32.00	8.35	6.31	8.11	0.00
32.20	8.35	6.31	8.11	0.00
32.40	8.35	6.31	8.11	0.00
32.60	8.35	6.31	8.11	0.00
32.80	8.35	6.31	8.11	0.00
33.00	8.35	6.31	8.11	0.00
33.20	8.35	6.31	8.11	0.00
33.40	8.35	6.31	8.11	0.00
33.60	8.35	6.31	8.11	0.00
33.80	8.35	6.31	8.11	0.00
34.00	8.35	6.31	8.11	0.00
34.20	8.35	6.31	8.11	0.00
34.40	8.35	6.31	8.11	0.00
34.60	8.35	6.31	8.11	0.00
34.80	8.35	6.31	8.11	0.00
35.00	8.35	6.31	8.11	0.00
35.20	8.35	6.31	8.11	0.00
35.40	8.35	6.31	8.11	0.00
35.60	8.35	6.31	8.11	0.00
35.80	8.35	6.31	8.11	0.00
36.00	8.35	6.31	8.11	0.00
36.20	8.35	6.31	8.11	0.00
36.40	8.35	6.31	8.11	0.00
36.60	8.35	6.31	8.11	0.00
36.80	8.35	6.31	8.11	0.00
37.00	8.35	6.31	8.11	0.00
37.20	8.35	6.31	8.11	0.00
37.40	8.35	6.31	8.11	0.00
37.60	8.35	6.31	8.11	0.00
37.80	8.35	6.31	8.11	0.00
38.00	8.35	6.31	8.11	0.00
38.20	8.35	6.31	8.11	0.00
38.40	8.35	6.31	8.11	0.00
38.60	8.35	6.31	8.11	0.00
38.80	8.35	6.31	8.11	0.00
39.00	8.35	6.31	8.11	0.00
39.20	8.35	6.31	8.11	0.00
39.40	8.35	6.31	8.11	0.00
39.60	8.35	6.31	8.11	0.00
39.80	8.35	6.31	8.11	0.00
40.00	8.35	6.31	8.11	0.00
40.20	8.35	6.31	8.11	0.00
40.40	8.35	6.31	8.11	0.00
40.60	8.35	6.31	8.11	0.00
40.80	8.35	6.31	8.11	0.00
41.00	8.35	6.31	8.11	0.00
41.20	8.35	6.31	8.11	0.00
41.40	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.31	8.11	0.00
41.80	8.35	6.31	8.11	0.00
42.00	8.35	6.31	8.11	0.00
42.20	8.35	6.31	8.11	0.00
42.40	8.35	6.31	8.11	0.00
42.60	8.35	6.31	8.11	0.00
42.80	8.35	6.31	8.11	0.00
43.00	8.35	6.31	8.11	0.00
43.20	8.35	6.31	8.11	0.00
43.40	8.35	6.31	8.11	0.00
43.60	8.35	6.31	8.11	0.00
43.80	8.35	6.31	8.11	0.00
44.00	8.35	6.31	8.11	0.00
44.20	8.35	6.31	8.11	0.00
44.40	8.35	6.31	8.11	0.00
44.60	8.35	6.31	8.11	0.00
44.80	8.35	6.31	8.11	0.00
45.00	8.35	6.31	8.11	0.00
45.20	8.35	6.31	8.11	0.00
45.40	8.35	6.31	8.11	0.00
45.60	8.35	6.31	8.11	0.00
45.80	8.35	6.31	8.11	0.00
46.00	8.35	6.31	8.11	0.00
46.20	8.35	6.31	8.11	0.00
46.40	8.35	6.31	8.11	0.00
46.60	8.35	6.31	8.11	0.00
46.80	8.35	6.31	8.11	0.00
47.00	8.35	6.31	8.11	0.00
47.20	8.35	6.31	8.11	0.00
47.40	8.35	6.31	8.11	0.00
47.60	8.35	6.31	8.11	0.00
47.80	8.35	6.31	8.11	0.00
48.00	8.35	6.31	8.11	0.00
48.20	8.35	6.31	8.11	0.00
48.40	8.35	6.31	8.11	0.00
48.60	8.35	6.31	8.11	0.00
48.80	8.35	6.31	8.11	0.00
49.00	8.35	6.31	8.11	0.00
49.20	8.35	6.31	8.11	0.00
49.40	8.35	6.31	8.11	0.00
49.60	8.35	6.31	8.11	0.00
49.80	8.35	6.31	8.11	0.00
50.00	8.35	6.31	8.11	0.00
50.20	8.35	6.31	8.11	0.00
50.40	8.35	6.31	8.11	0.00
50.60	8.35	6.31	8.11	0.00
50.80	8.35	6.31	8.11	0.00
51.00	8.35	6.31	8.11	0.00
51.20	8.35	6.31	8.11	0.00
51.40	8.35	6.31	8.11	0.00
51.60	8.35	6.31	8.11	0.00
51.80	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.31	8.11	0.00
52.20	8.35	6.31	8.11	0.00
52.40	8.35	6.31	8.11	0.00
52.60	8.35	6.31	8.11	0.00
52.80	8.35	6.31	8.11	0.00
53.00	8.35	6.31	8.11	0.00
53.20	8.35	6.31	8.11	0.00
53.40	8.35	6.31	8.11	0.00
53.60	8.35	6.31	8.11	0.00
53.80	8.35	6.31	8.11	0.00
54.00	8.35	6.31	8.11	0.00
54.20	8.35	6.31	8.11	0.00
54.40	8.35	6.31	8.11	0.00
54.60	8.35	6.31	8.11	0.00
54.80	8.35	6.31	8.11	0.00
55.00	8.35	6.31	8.11	0.00
55.20	8.35	6.31	8.11	0.00
55.40	8.35	6.31	8.11	0.00
55.60	8.35	6.31	8.11	0.00
55.80	8.35	6.31	8.11	0.00
56.00	8.35	6.31	8.11	0.00
56.20	8.35	6.31	8.11	0.00
56.40	8.35	6.31	8.11	0.00
56.60	8.35	6.31	8.11	0.00
56.80	8.35	6.31	8.11	0.00
57.00	8.35	6.31	8.11	0.00
57.20	8.35	6.31	8.11	0.00
57.40	8.35	6.31	8.11	0.00
57.60	8.35	6.31	8.11	0.00
57.80	8.35	6.31	8.11	0.00
58.00	8.35	6.31	8.11	0.00
58.20	8.35	6.31	8.11	0.00
58.40	8.35	6.31	8.11	0.00
58.60	8.35	6.31	8.11	0.00
58.80	8.35	6.31	8.11	0.00
59.00	8.35	6.31	8.11	0.00
59.20	8.35	6.31	8.11	0.00
59.40	8.35	6.31	8.11	0.00
59.60	8.35	6.31	8.11	0.00
59.80	8.35	6.31	8.11	0.00
60.00	8.35	6.31	8.11	0.00
60.20	8.35	6.31	8.11	0.00
60.40	8.35	6.31	8.11	0.00
60.60	8.35	6.31	8.11	0.00
60.80	8.35	6.31	8.11	0.00
61.00	8.35	6.31	8.11	0.00
61.20	8.35	6.31	8.11	0.00
61.40	8.35	6.31	8.11	0.00
61.60	8.35	6.31	8.11	0.00
61.80	8.35	6.31	8.11	0.00
62.00	8.35	6.31	8.11	0.00
62.20	8.35	6.31	8.11	0.00

**Hydrograph for Subcatchment P-1B-6: Area 6 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.31	8.11	0.00
62.60	8.35	6.31	8.11	0.00
62.80	8.35	6.31	8.11	0.00
63.00	8.35	6.31	8.11	0.00
63.20	8.35	6.31	8.11	0.00
63.40	8.35	6.31	8.11	0.00
63.60	8.35	6.31	8.11	0.00
63.80	8.35	6.31	8.11	0.00
64.00	8.35	6.31	8.11	0.00
64.20	8.35	6.31	8.11	0.00
64.40	8.35	6.31	8.11	0.00
64.60	8.35	6.31	8.11	0.00
64.80	8.35	6.31	8.11	0.00
65.00	8.35	6.31	8.11	0.00
65.20	8.35	6.31	8.11	0.00
65.40	8.35	6.31	8.11	0.00
65.60	8.35	6.31	8.11	0.00
65.80	8.35	6.31	8.11	0.00
66.00	8.35	6.31	8.11	0.00
66.20	8.35	6.31	8.11	0.00
66.40	8.35	6.31	8.11	0.00
66.60	8.35	6.31	8.11	0.00
66.80	8.35	6.31	8.11	0.00
67.00	8.35	6.31	8.11	0.00
67.20	8.35	6.31	8.11	0.00
67.40	8.35	6.31	8.11	0.00
67.60	8.35	6.31	8.11	0.00
67.80	8.35	6.31	8.11	0.00
68.00	8.35	6.31	8.11	0.00
68.20	8.35	6.31	8.11	0.00
68.40	8.35	6.31	8.11	0.00
68.60	8.35	6.31	8.11	0.00
68.80	8.35	6.31	8.11	0.00
69.00	8.35	6.31	8.11	0.00
69.20	8.35	6.31	8.11	0.00
69.40	8.35	6.31	8.11	0.00
69.60	8.35	6.31	8.11	0.00
69.80	8.35	6.31	8.11	0.00
70.00	8.35	6.31	8.11	0.00
70.20	8.35	6.31	8.11	0.00
70.40	8.35	6.31	8.11	0.00
70.60	8.35	6.31	8.11	0.00
70.80	8.35	6.31	8.11	0.00
71.00	8.35	6.31	8.11	0.00
71.20	8.35	6.31	8.11	0.00
71.40	8.35	6.31	8.11	0.00
71.60	8.35	6.31	8.11	0.00
71.80	8.35	6.31	8.11	0.00
72.00	8.35	6.31	8.11	0.00

**Summary for Pond PV-1: Pervious Pavers 1**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 9,440 sf, 51.89% Impervious, Inflow Depth = 7.24" for 100-Year event  
 Inflow = 1.80 cfs @ 12.10 hrs, Volume= 5,699 cf  
 Outflow = 0.54 cfs @ 12.23 hrs, Volume= 5,699 cf, Atten= 70%, Lag= 7.6 min  
 Primary = 0.54 cfs @ 12.23 hrs, Volume= 5,699 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.78' @ 12.23 hrs Surf.Area= 3,078 sf Storage= 1,804 cf

Plug-Flow detention time= 95.5 min calculated for 5,699 cf (100% of inflow)  
 Center-of-Mass det. time= 95.8 min ( 857.9 - 762.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.31'	1,871 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.31	3,078	0	0
543.83	3,078	4,679	4,679

Device	Routing	Invert	Outlet Devices
#1	Primary	541.55'	<b>6.0" Round Culvert</b> L= 37.0' Ke= 0.500 Inlet / Outlet Invert= 541.55' / 541.37' S= 0.0049 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.95'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.54 cfs @ 12.23 hrs HW=543.78' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.54 cfs of 1.15 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.19 cfs @ 2.20 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.35 cfs @ 1.56 fps)

**Hydrograph for Pond PV-1: Pervious Pavers 1**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.31	0.00
0.20	0.00	0	542.31	0.00
0.40	0.00	0	542.31	0.00
0.60	0.00	0	542.31	0.00
0.80	0.00	2	542.31	0.00
1.00	0.00	4	542.31	0.00
1.20	0.01	7	542.32	0.00
1.40	0.01	11	542.32	0.00
1.60	0.01	16	542.32	0.00
1.80	0.01	21	542.33	0.00
2.00	0.01	26	542.33	0.00
2.20	0.01	31	542.34	0.00
2.40	0.01	37	542.34	0.00
2.60	0.01	43	542.34	0.00
2.80	0.01	48	542.35	0.00
3.00	0.01	54	542.35	0.00
3.20	0.01	60	542.36	0.00
3.40	0.01	66	542.36	0.00
3.60	0.01	71	542.37	0.00
3.80	0.01	77	542.37	0.01
4.00	0.01	82	542.38	0.01
4.20	0.01	87	542.38	0.01
4.40	0.01	93	542.39	0.01
4.60	0.02	98	542.39	0.01
4.80	0.02	103	542.39	0.01
5.00	0.02	108	542.40	0.01
5.20	0.02	114	542.40	0.01
5.40	0.02	119	542.41	0.01
5.60	0.02	124	542.41	0.01
5.80	0.02	128	542.41	0.01
6.00	0.02	133	542.42	0.01
6.20	0.02	138	542.42	0.01
6.40	0.02	143	542.43	0.01
6.60	0.02	149	542.43	0.02
6.80	0.03	155	542.44	0.02
7.00	0.03	161	542.44	0.02
7.20	0.03	167	542.45	0.02
7.40	0.03	174	542.45	0.02
7.60	0.03	181	542.46	0.02
7.80	0.03	188	542.46	0.02
8.00	0.03	195	542.47	0.02
8.20	0.04	202	542.47	0.03
8.40	0.04	209	542.48	0.03
8.60	0.04	216	542.49	0.03
8.80	0.04	224	542.49	0.03
9.00	0.04	231	542.50	0.03
9.20	0.05	240	542.50	0.03
9.40	0.05	251	542.51	0.04
9.60	0.06	263	542.52	0.04
9.80	0.06	277	542.53	0.04
10.00	0.07	292	542.55	0.05
10.20	0.07	309	542.56	0.05



**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.08	326	542.58	0.06
10.60	0.09	347	542.59	0.06
10.80	0.11	376	542.62	0.07
11.00	0.13	415	542.65	0.07
11.20	0.16	470	542.69	0.08
11.40	0.20	542	542.75	0.09
11.60	0.29	648	542.84	0.10
11.80	0.43	823	542.98	0.12
12.00	<b>1.06</b>	1,217	543.30	0.33
12.20	<b>0.63</b>	<b>1,798</b>	<b>543.77</b>	<b>0.54</b>
12.40	0.33	<b>1,729</b>	<b>543.71</b>	<b>0.52</b>
12.60	0.24	1,581	543.59	0.47
12.80	0.20	1,415	543.46	0.42
13.00	0.17	1,267	543.34	0.35
13.20	0.14	1,144	543.24	0.28
13.40	0.12	1,053	543.16	0.23
13.60	0.10	980	543.11	0.19
13.80	0.09	923	543.06	0.16
14.00	0.09	877	543.02	0.14
14.20	0.08	839	542.99	0.13
14.40	0.07	805	542.96	0.12
14.60	0.07	771	542.94	0.12
14.80	0.06	737	542.91	0.11
15.00	0.06	701	542.88	0.11
15.20	0.05	664	542.85	0.10
15.40	0.05	629	542.82	0.10
15.60	0.05	595	542.79	0.10
15.80	0.05	564	542.77	0.09
16.00	0.05	533	542.74	0.09
16.20	0.05	505	542.72	0.08
16.40	0.04	478	542.70	0.08
16.60	0.04	452	542.68	0.08
16.80	0.04	428	542.66	0.07
17.00	0.04	406	542.64	0.07
17.20	0.04	385	542.62	0.07
17.40	0.04	365	542.61	0.06
17.60	0.04	346	542.59	0.06
17.80	0.03	330	542.58	0.06
18.00	0.03	314	542.57	0.05
18.20	0.03	300	542.55	0.05
18.40	0.03	288	542.54	0.05
18.60	0.03	278	542.54	0.04
18.80	0.03	269	542.53	0.04
19.00	0.03	261	542.52	0.04
19.20	0.03	254	542.52	0.04
19.40	0.03	248	542.51	0.04
19.60	0.03	243	542.51	0.04
19.80	0.03	238	542.50	0.03
20.00	0.03	233	542.50	0.03
20.20	0.03	229	542.50	0.03
20.40	0.03	226	542.49	0.03
20.60	0.03	222	542.49	0.03

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.03	219	542.49	0.03
21.00	0.03	216	542.49	0.03
21.20	0.03	214	542.48	0.03
21.40	0.02	211	542.48	0.03
21.60	0.02	209	542.48	0.03
21.80	0.02	206	542.48	0.03
22.00	0.02	204	542.48	0.03
22.20	0.02	202	542.47	0.03
22.40	0.02	200	542.47	0.03
22.60	0.02	197	542.47	0.03
22.80	0.02	195	542.47	0.02
23.00	0.02	193	542.47	0.02
23.20	0.02	191	542.47	0.02
23.40	0.02	189	542.46	0.02
23.60	0.02	187	542.46	0.02
23.80	0.02	185	542.46	0.02
24.00	0.02	183	542.46	0.02
24.20	0.00	170	542.45	0.02
24.40	0.00	157	542.44	0.02
24.60	0.00	145	542.43	0.02
24.80	0.00	135	542.42	0.01
25.00	0.00	126	542.41	0.01
25.20	0.00	118	542.41	0.01
25.40	0.00	111	542.40	0.01
25.60	0.00	104	542.39	0.01
25.80	0.00	98	542.39	0.01
26.00	0.00	93	542.39	0.01
26.20	0.00	88	542.38	0.01
26.40	0.00	84	542.38	0.01
26.60	0.00	80	542.37	0.01
26.80	0.00	76	542.37	0.01
27.00	0.00	72	542.37	0.00
27.20	0.00	69	542.37	0.00
27.40	0.00	66	542.36	0.00
27.60	0.00	63	542.36	0.00
27.80	0.00	61	542.36	0.00
28.00	0.00	58	542.36	0.00
28.20	0.00	56	542.36	0.00
28.40	0.00	54	542.35	0.00
28.60	0.00	52	542.35	0.00
28.80	0.00	50	542.35	0.00
29.00	0.00	48	542.35	0.00
29.20	0.00	47	542.35	0.00
29.40	0.00	45	542.35	0.00
29.60	0.00	43	542.35	0.00
29.80	0.00	42	542.34	0.00
30.00	0.00	41	542.34	0.00
30.20	0.00	39	542.34	0.00
30.40	0.00	38	542.34	0.00
30.60	0.00	37	542.34	0.00
30.80	0.00	36	542.34	0.00
31.00	0.00	35	542.34	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	34	542.34	0.00
31.40	0.00	33	542.34	0.00
31.60	0.00	32	542.34	0.00
31.80	0.00	31	542.33	0.00
32.00	0.00	30	542.33	0.00
32.20	0.00	29	542.33	0.00
32.40	0.00	28	542.33	0.00
32.60	0.00	27	542.33	0.00
32.80	0.00	27	542.33	0.00
33.00	0.00	26	542.33	0.00
33.20	0.00	25	542.33	0.00
33.40	0.00	25	542.33	0.00
33.60	0.00	24	542.33	0.00
33.80	0.00	23	542.33	0.00
34.00	0.00	23	542.33	0.00
34.20	0.00	22	542.33	0.00
34.40	0.00	22	542.33	0.00
34.60	0.00	21	542.33	0.00
34.80	0.00	21	542.33	0.00
35.00	0.00	20	542.33	0.00
35.20	0.00	19	542.33	0.00
35.40	0.00	19	542.33	0.00
35.60	0.00	19	542.33	0.00
35.80	0.00	18	542.32	0.00
36.00	0.00	18	542.32	0.00
36.20	0.00	17	542.32	0.00
36.40	0.00	17	542.32	0.00
36.60	0.00	16	542.32	0.00
36.80	0.00	16	542.32	0.00
37.00	0.00	16	542.32	0.00
37.20	0.00	15	542.32	0.00
37.40	0.00	15	542.32	0.00
37.60	0.00	15	542.32	0.00
37.80	0.00	14	542.32	0.00
38.00	0.00	14	542.32	0.00
38.20	0.00	13	542.32	0.00
38.40	0.00	13	542.32	0.00
38.60	0.00	13	542.32	0.00
38.80	0.00	13	542.32	0.00
39.00	0.00	12	542.32	0.00
39.20	0.00	12	542.32	0.00
39.40	0.00	12	542.32	0.00
39.60	0.00	11	542.32	0.00
39.80	0.00	11	542.32	0.00
40.00	0.00	11	542.32	0.00
40.20	0.00	11	542.32	0.00
40.40	0.00	10	542.32	0.00
40.60	0.00	10	542.32	0.00
40.80	0.00	10	542.32	0.00
41.00	0.00	10	542.32	0.00
41.20	0.00	9	542.32	0.00
41.40	0.00	9	542.32	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	9	542.32	0.00
41.80	0.00	9	542.32	0.00
42.00	0.00	8	542.32	0.00
42.20	0.00	8	542.32	0.00
42.40	0.00	8	542.32	0.00
42.60	0.00	8	542.32	0.00
42.80	0.00	8	542.32	0.00
43.00	0.00	7	542.32	0.00
43.20	0.00	7	542.32	0.00
43.40	0.00	7	542.32	0.00
43.60	0.00	7	542.32	0.00
43.80	0.00	7	542.32	0.00
44.00	0.00	7	542.32	0.00
44.20	0.00	6	542.32	0.00
44.40	0.00	6	542.32	0.00
44.60	0.00	6	542.31	0.00
44.80	0.00	6	542.31	0.00
45.00	0.00	6	542.31	0.00
45.20	0.00	6	542.31	0.00
45.40	0.00	5	542.31	0.00
45.60	0.00	5	542.31	0.00
45.80	0.00	5	542.31	0.00
46.00	0.00	5	542.31	0.00
46.20	0.00	5	542.31	0.00
46.40	0.00	5	542.31	0.00
46.60	0.00	5	542.31	0.00
46.80	0.00	4	542.31	0.00
47.00	0.00	4	542.31	0.00
47.20	0.00	4	542.31	0.00
47.40	0.00	4	542.31	0.00
47.60	0.00	4	542.31	0.00
47.80	0.00	4	542.31	0.00
48.00	0.00	4	542.31	0.00
48.20	0.00	3	542.31	0.00
48.40	0.00	3	542.31	0.00
48.60	0.00	3	542.31	0.00
48.80	0.00	3	542.31	0.00
49.00	0.00	3	542.31	0.00
49.20	0.00	3	542.31	0.00
49.40	0.00	3	542.31	0.00
49.60	0.00	3	542.31	0.00
49.80	0.00	3	542.31	0.00
50.00	0.00	2	542.31	0.00
50.20	0.00	2	542.31	0.00
50.40	0.00	2	542.31	0.00
50.60	0.00	2	542.31	0.00
50.80	0.00	2	542.31	0.00
51.00	0.00	2	542.31	0.00
51.20	0.00	2	542.31	0.00
51.40	0.00	2	542.31	0.00
51.60	0.00	2	542.31	0.00
51.80	0.00	2	542.31	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	1	542.31	0.00
52.20	0.00	1	542.31	0.00
52.40	0.00	1	542.31	0.00
52.60	0.00	1	542.31	0.00
52.80	0.00	1	542.31	0.00
53.00	0.00	1	542.31	0.00
53.20	0.00	1	542.31	0.00
53.40	0.00	1	542.31	0.00
53.60	0.00	1	542.31	0.00
53.80	0.00	1	542.31	0.00
54.00	0.00	1	542.31	0.00
54.20	0.00	0	542.31	0.00
54.40	0.00	0	542.31	0.00
54.60	0.00	0	542.31	0.00
54.80	0.00	0	542.31	0.00
55.00	0.00	0	542.31	0.00
55.20	0.00	0	542.31	0.00
55.40	0.00	0	542.31	0.00
55.60	0.00	0	542.31	0.00
55.80	0.00	0	542.31	0.00
56.00	0.00	0	542.31	0.00
56.20	0.00	0	542.31	0.00
56.40	0.00	0	542.31	0.00
56.60	0.00	0	542.31	0.00
56.80	0.00	0	542.31	0.00
57.00	0.00	0	542.31	0.00
57.20	0.00	0	542.31	0.00
57.40	0.00	0	542.31	0.00
57.60	0.00	0	542.31	0.00
57.80	0.00	0	542.31	0.00
58.00	0.00	0	542.31	0.00
58.20	0.00	0	542.31	0.00
58.40	0.00	0	542.31	0.00
58.60	0.00	0	542.31	0.00
58.80	0.00	0	542.31	0.00
59.00	0.00	0	542.31	0.00
59.20	0.00	0	542.31	0.00
59.40	0.00	0	542.31	0.00
59.60	0.00	0	542.31	0.00
59.80	0.00	0	542.31	0.00
60.00	0.00	0	542.31	0.00
60.20	0.00	0	542.31	0.00
60.40	0.00	0	542.31	0.00
60.60	0.00	0	542.31	0.00
60.80	0.00	0	542.31	0.00
61.00	0.00	0	542.31	0.00
61.20	0.00	0	542.31	0.00
61.40	0.00	0	542.31	0.00
61.60	0.00	0	542.31	0.00
61.80	0.00	0	542.31	0.00
62.00	0.00	0	542.31	0.00
62.20	0.00	0	542.31	0.00

**Hydrograph for Pond PV-1: Pervious Pavers 1 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.31	0.00
62.60	0.00	0	542.31	0.00
62.80	0.00	0	542.31	0.00
63.00	0.00	0	542.31	0.00
63.20	0.00	0	542.31	0.00
63.40	0.00	0	542.31	0.00
63.60	0.00	0	542.31	0.00
63.80	0.00	0	542.31	0.00
64.00	0.00	0	542.31	0.00
64.20	0.00	0	542.31	0.00
64.40	0.00	0	542.31	0.00
64.60	0.00	0	542.31	0.00
64.80	0.00	0	542.31	0.00
65.00	0.00	0	542.31	0.00
65.20	0.00	0	542.31	0.00
65.40	0.00	0	542.31	0.00
65.60	0.00	0	542.31	0.00
65.80	0.00	0	542.31	0.00
66.00	0.00	0	542.31	0.00
66.20	0.00	0	542.31	0.00
66.40	0.00	0	542.31	0.00
66.60	0.00	0	542.31	0.00
66.80	0.00	0	542.31	0.00
67.00	0.00	0	542.31	0.00
67.20	0.00	0	542.31	0.00
67.40	0.00	0	542.31	0.00
67.60	0.00	0	542.31	0.00
67.80	0.00	0	542.31	0.00
68.00	0.00	0	542.31	0.00
68.20	0.00	0	542.31	0.00
68.40	0.00	0	542.31	0.00
68.60	0.00	0	542.31	0.00
68.80	0.00	0	542.31	0.00
69.00	0.00	0	542.31	0.00
69.20	0.00	0	542.31	0.00
69.40	0.00	0	542.31	0.00
69.60	0.00	0	542.31	0.00
69.80	0.00	0	542.31	0.00
70.00	0.00	0	542.31	0.00
70.20	0.00	0	542.31	0.00
70.40	0.00	0	542.31	0.00
70.60	0.00	0	542.31	0.00
70.80	0.00	0	542.31	0.00
71.00	0.00	0	542.31	0.00
71.20	0.00	0	542.31	0.00
71.40	0.00	0	542.31	0.00
71.60	0.00	0	542.31	0.00
71.80	0.00	0	542.31	0.00
72.00	0.00	0	542.31	0.00

**Stage-Area-Storage for Pond PV-1: Pervious Pavers 1**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.31	3,078	0	542.83	3,078	640
542.32	3,078	12	542.84	3,078	653
542.33	3,078	25	542.85	3,078	665
542.34	3,078	37	542.86	3,078	677
542.35	3,078	49	542.87	3,078	689
542.36	3,078	62	542.88	3,078	702
542.37	3,078	74	542.89	3,078	714
542.38	3,078	86	542.90	3,078	726
542.39	3,078	98	542.91	3,078	739
542.40	3,078	111	542.92	3,078	751
542.41	3,078	123	542.93	3,078	763
542.42	3,078	135	542.94	3,078	776
542.43	3,078	148	542.95	3,078	788
542.44	3,078	160	542.96	3,078	800
542.45	3,078	172	542.97	3,078	813
542.46	3,078	185	542.98	3,078	825
542.47	3,078	197	542.99	3,078	837
542.48	3,078	209	543.00	3,078	850
542.49	3,078	222	543.01	3,078	862
542.50	3,078	234	543.02	3,078	874
542.51	3,078	246	543.03	3,078	886
542.52	3,078	259	543.04	3,078	899
542.53	3,078	271	543.05	3,078	911
542.54	3,078	283	543.06	3,078	923
542.55	3,078	295	543.07	3,078	936
542.56	3,078	308	543.08	3,078	948
542.57	3,078	320	543.09	3,078	960
542.58	3,078	332	543.10	3,078	973
542.59	3,078	345	543.11	3,078	985
542.60	3,078	357	543.12	3,078	997
542.61	3,078	369	543.13	3,078	1,010
542.62	3,078	382	543.14	3,078	1,022
542.63	3,078	394	543.15	3,078	1,034
542.64	3,078	406	543.16	3,078	1,047
542.65	3,078	419	543.17	3,078	1,059
542.66	3,078	431	543.18	3,078	1,071
542.67	3,078	443	543.19	3,078	1,083
542.68	3,078	456	543.20	3,078	1,096
542.69	3,078	468	543.21	3,078	1,108
542.70	3,078	480	543.22	3,078	1,120
542.71	3,078	492	543.23	3,078	1,133
542.72	3,078	505	543.24	3,078	1,145
542.73	3,078	517	543.25	3,078	1,157
542.74	3,078	529	543.26	3,078	1,170
542.75	3,078	542	543.27	3,078	1,182
542.76	3,078	554	543.28	3,078	1,194
542.77	3,078	566	543.29	3,078	1,207
542.78	3,078	579	543.30	3,078	1,219
542.79	3,078	591	543.31	3,078	1,231
542.80	3,078	603	543.32	3,078	1,244
542.81	3,078	616	543.33	3,078	1,256
542.82	3,078	628	543.34	3,078	1,268

**Stage-Area-Storage for Pond PV-1: Pervious Pavers 1 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.35	3,078	1,280
543.36	3,078	1,293
543.37	3,078	1,305
543.38	3,078	1,317
543.39	3,078	1,330
543.40	3,078	1,342
543.41	3,078	1,354
543.42	3,078	1,367
543.43	3,078	1,379
543.44	3,078	1,391
543.45	3,078	1,404
543.46	3,078	1,416
543.47	3,078	1,428
543.48	3,078	1,441
543.49	3,078	1,453
543.50	3,078	1,465
543.51	3,078	1,477
543.52	3,078	1,490
543.53	3,078	1,502
543.54	3,078	1,514
543.55	3,078	1,527
543.56	3,078	1,539
543.57	3,078	1,551
543.58	3,078	1,564
543.59	3,078	1,576
543.60	3,078	1,588
543.61	3,078	1,601
543.62	3,078	1,613
543.63	3,078	1,625
543.64	3,078	1,637
543.65	3,078	1,650
543.66	3,078	1,662
543.67	3,078	1,674
543.68	3,078	1,687
543.69	3,078	1,699
543.70	3,078	1,711
543.71	3,078	1,724
543.72	3,078	1,736
543.73	3,078	1,748
543.74	3,078	1,761
543.75	3,078	1,773
543.76	3,078	1,785
543.77	3,078	1,798
543.78	3,078	1,810
543.79	3,078	1,822
543.80	3,078	1,834
543.81	3,078	1,847
543.82	3,078	1,859
543.83	3,078	<b>1,871</b>



**Summary for Pond PV-2: Pervious Pavers 2**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 4,844 sf, 39.18% Impervious, Inflow Depth = 7.09" for 100-Year event  
 Inflow = 0.91 cfs @ 12.10 hrs, Volume= 2,862 cf  
 Outflow = 0.33 cfs @ 12.19 hrs, Volume= 2,862 cf, Atten= 63%, Lag= 5.4 min  
 Primary = 0.33 cfs @ 12.19 hrs, Volume= 2,862 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.57' @ 12.19 hrs Surf.Area= 2,214 sf Storage= 931 cf

Plug-Flow detention time= 111.1 min calculated for 2,861 cf (100% of inflow)  
 Center-of-Mass det. time= 111.2 min ( 880.2 - 769.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,072 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,679 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,214	0	0
543.73	2,214	2,679	2,679

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 4.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.00'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.33 cfs @ 12.19 hrs HW=543.57' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.33 cfs of 1.23 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.06 cfs @ 1.89 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.27 cfs @ 1.22 fps)

**Hydrograph for Pond PV-2: Pervious Pavers 2**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.52	0.00
0.20	0.00	0	542.52	0.00
0.40	0.00	0	542.52	0.00
0.60	0.00	0	542.52	0.00
0.80	0.00	0	542.52	0.00
1.00	0.00	1	542.52	0.00
1.20	0.00	2	542.52	0.00
1.40	0.00	3	542.52	0.00
1.60	0.00	5	542.53	0.00
1.80	0.00	6	542.53	0.00
2.00	0.00	8	542.53	0.00
2.20	0.00	10	542.53	0.00
2.40	0.00	12	542.53	0.00
2.60	0.00	14	542.54	0.00
2.80	0.00	16	542.54	0.00
3.00	0.00	18	542.54	0.00
3.20	0.00	21	542.54	0.00
3.40	0.00	23	542.55	0.00
3.60	0.00	25	542.55	0.00
3.80	0.01	27	542.55	0.00
4.00	0.01	29	542.55	0.00
4.20	0.01	32	542.56	0.00
4.40	0.01	34	542.56	0.00
4.60	0.01	37	542.56	0.00
4.80	0.01	39	542.56	0.00
5.00	0.01	42	542.57	0.00
5.20	0.01	45	542.57	0.00
5.40	0.01	47	542.57	0.00
5.60	0.01	50	542.58	0.00
5.80	0.01	53	542.58	0.00
6.00	0.01	56	542.58	0.00
6.20	0.01	59	542.59	0.01
6.40	0.01	62	542.59	0.01
6.60	0.01	65	542.59	0.01
6.80	0.01	69	542.60	0.01
7.00	0.01	72	542.60	0.01
7.20	0.01	76	542.61	0.01
7.40	0.01	80	542.61	0.01
7.60	0.01	84	542.62	0.01
7.80	0.02	88	542.62	0.01
8.00	0.02	93	542.62	0.01
8.20	0.02	97	542.63	0.01
8.40	0.02	102	542.64	0.01
8.60	0.02	107	542.64	0.01
8.80	0.02	111	542.65	0.01
9.00	0.02	116	542.65	0.01
9.20	0.02	122	542.66	0.01
9.40	0.03	128	542.66	0.02
9.60	0.03	136	542.67	0.02
9.80	0.03	145	542.68	0.02
10.00	0.03	154	542.69	0.02
10.20	0.04	165	542.71	0.02

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.04	177	542.72	0.02
10.60	0.05	191	542.74	0.02
10.80	0.06	210	542.76	0.03
11.00	0.07	234	542.78	0.03
11.20	0.08	267	542.82	0.03
11.40	0.10	310	542.87	0.03
11.60	0.15	370	542.94	0.04
11.80	0.22	466	543.05	0.05
12.00	<b>0.54</b>	<b>657</b>	<b>543.26</b>	<b>0.17</b>
12.20	<b>0.33</b>	<b>931</b>	<b>543.57</b>	<b>0.33</b>
12.40	0.17	865	543.50	0.31
12.60	0.12	771	543.39	0.26
12.80	0.10	689	543.30	0.19
13.00	0.08	633	543.23	0.15
13.20	0.07	591	543.19	0.12
13.40	0.06	559	543.15	0.10
13.60	0.05	533	543.12	0.08
13.80	0.05	511	543.10	0.07
14.00	0.04	495	543.08	0.06
14.20	0.04	481	543.06	0.06
14.40	0.04	469	543.05	0.05
14.60	0.04	459	543.04	0.05
14.80	0.03	448	543.03	0.05
15.00	0.03	438	543.01	0.04
15.20	0.03	428	543.00	0.04
15.40	0.03	418	542.99	0.04
15.60	0.03	408	542.98	0.04
15.80	0.03	397	542.97	0.04
16.00	0.02	387	542.96	0.04
16.20	0.02	376	542.94	0.04
16.40	0.02	366	542.93	0.04
16.60	0.02	355	542.92	0.04
16.80	0.02	344	542.91	0.04
17.00	0.02	333	542.90	0.04
17.20	0.02	322	542.88	0.03
17.40	0.02	311	542.87	0.03
17.60	0.02	300	542.86	0.03
17.80	0.02	289	542.85	0.03
18.00	0.02	278	542.83	0.03
18.20	0.02	268	542.82	0.03
18.40	0.02	257	542.81	0.03
18.60	0.02	247	542.80	0.03
18.80	0.02	238	542.79	0.03
19.00	0.02	229	542.78	0.03
19.20	0.01	220	542.77	0.03
19.40	0.01	212	542.76	0.03
19.60	0.01	204	542.75	0.03
19.80	0.01	196	542.74	0.02
20.00	0.01	189	542.73	0.02
20.20	0.01	183	542.73	0.02
20.40	0.01	176	542.72	0.02
20.60	0.01	170	542.71	0.02

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.01	164	542.71	0.02
21.00	0.01	159	542.70	0.02
21.20	0.01	154	542.69	0.02
21.40	0.01	149	542.69	0.02
21.60	0.01	144	542.68	0.02
21.80	0.01	140	542.68	0.02
22.00	0.01	136	542.67	0.02
22.20	0.01	133	542.67	0.02
22.40	0.01	129	542.67	0.02
22.60	0.01	126	542.66	0.02
22.80	0.01	123	542.66	0.02
23.00	0.01	120	542.66	0.01
23.20	0.01	118	542.65	0.01
23.40	0.01	115	542.65	0.01
23.60	0.01	113	542.65	0.01
23.80	0.01	111	542.65	0.01
24.00	0.01	109	542.64	0.01
24.20	0.00	101	542.63	0.01
24.40	0.00	93	542.63	0.01
24.60	0.00	86	542.62	0.01
24.80	0.00	80	542.61	0.01
25.00	0.00	74	542.60	0.01
25.20	0.00	69	542.60	0.01
25.40	0.00	65	542.59	0.01
25.60	0.00	60	542.59	0.01
25.80	0.00	57	542.58	0.01
26.00	0.00	53	542.58	0.00
26.20	0.00	50	542.58	0.00
26.40	0.00	47	542.57	0.00
26.60	0.00	44	542.57	0.00
26.80	0.00	42	542.57	0.00
27.00	0.00	39	542.56	0.00
27.20	0.00	37	542.56	0.00
27.40	0.00	35	542.56	0.00
27.60	0.00	33	542.56	0.00
27.80	0.00	32	542.56	0.00
28.00	0.00	30	542.55	0.00
28.20	0.00	28	542.55	0.00
28.40	0.00	27	542.55	0.00
28.60	0.00	26	542.55	0.00
28.80	0.00	24	542.55	0.00
29.00	0.00	23	542.55	0.00
29.20	0.00	22	542.54	0.00
29.40	0.00	21	542.54	0.00
29.60	0.00	20	542.54	0.00
29.80	0.00	19	542.54	0.00
30.00	0.00	18	542.54	0.00
30.20	0.00	17	542.54	0.00
30.40	0.00	16	542.54	0.00
30.60	0.00	15	542.54	0.00
30.80	0.00	15	542.54	0.00
31.00	0.00	14	542.54	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	13	542.53	0.00
31.40	0.00	13	542.53	0.00
31.60	0.00	12	542.53	0.00
31.80	0.00	11	542.53	0.00
32.00	0.00	11	542.53	0.00
32.20	0.00	10	542.53	0.00
32.40	0.00	10	542.53	0.00
32.60	0.00	9	542.53	0.00
32.80	0.00	9	542.53	0.00
33.00	0.00	8	542.53	0.00
33.20	0.00	8	542.53	0.00
33.40	0.00	7	542.53	0.00
33.60	0.00	7	542.53	0.00
33.80	0.00	6	542.53	0.00
34.00	0.00	6	542.53	0.00
34.20	0.00	5	542.53	0.00
34.40	0.00	5	542.53	0.00
34.60	0.00	5	542.53	0.00
34.80	0.00	4	542.52	0.00
35.00	0.00	4	542.52	0.00
35.20	0.00	4	542.52	0.00
35.40	0.00	3	542.52	0.00
35.60	0.00	3	542.52	0.00
35.80	0.00	3	542.52	0.00
36.00	0.00	2	542.52	0.00
36.20	0.00	2	542.52	0.00
36.40	0.00	2	542.52	0.00
36.60	0.00	1	542.52	0.00
36.80	0.00	1	542.52	0.00
37.00	0.00	1	542.52	0.00
37.20	0.00	1	542.52	0.00
37.40	0.00	0	542.52	0.00
37.60	0.00	0	542.52	0.00
37.80	0.00	0	542.52	0.00
38.00	0.00	0	542.52	0.00
38.20	0.00	0	542.52	0.00
38.40	0.00	0	542.52	0.00
38.60	0.00	0	542.52	0.00
38.80	0.00	0	542.52	0.00
39.00	0.00	0	542.52	0.00
39.20	0.00	0	542.52	0.00
39.40	0.00	0	542.52	0.00
39.60	0.00	0	542.52	0.00
39.80	0.00	0	542.52	0.00
40.00	0.00	0	542.52	0.00
40.20	0.00	0	542.52	0.00
40.40	0.00	0	542.52	0.00
40.60	0.00	0	542.52	0.00
40.80	0.00	0	542.52	0.00
41.00	0.00	0	542.52	0.00
41.20	0.00	0	542.52	0.00
41.40	0.00	0	542.52	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	542.52	0.00
41.80	0.00	0	542.52	0.00
42.00	0.00	0	542.52	0.00
42.20	0.00	0	542.52	0.00
42.40	0.00	0	542.52	0.00
42.60	0.00	0	542.52	0.00
42.80	0.00	0	542.52	0.00
43.00	0.00	0	542.52	0.00
43.20	0.00	0	542.52	0.00
43.40	0.00	0	542.52	0.00
43.60	0.00	0	542.52	0.00
43.80	0.00	0	542.52	0.00
44.00	0.00	0	542.52	0.00
44.20	0.00	0	542.52	0.00
44.40	0.00	0	542.52	0.00
44.60	0.00	0	542.52	0.00
44.80	0.00	0	542.52	0.00
45.00	0.00	0	542.52	0.00
45.20	0.00	0	542.52	0.00
45.40	0.00	0	542.52	0.00
45.60	0.00	0	542.52	0.00
45.80	0.00	0	542.52	0.00
46.00	0.00	0	542.52	0.00
46.20	0.00	0	542.52	0.00
46.40	0.00	0	542.52	0.00
46.60	0.00	0	542.52	0.00
46.80	0.00	0	542.52	0.00
47.00	0.00	0	542.52	0.00
47.20	0.00	0	542.52	0.00
47.40	0.00	0	542.52	0.00
47.60	0.00	0	542.52	0.00
47.80	0.00	0	542.52	0.00
48.00	0.00	0	542.52	0.00
48.20	0.00	0	542.52	0.00
48.40	0.00	0	542.52	0.00
48.60	0.00	0	542.52	0.00
48.80	0.00	0	542.52	0.00
49.00	0.00	0	542.52	0.00
49.20	0.00	0	542.52	0.00
49.40	0.00	0	542.52	0.00
49.60	0.00	0	542.52	0.00
49.80	0.00	0	542.52	0.00
50.00	0.00	0	542.52	0.00
50.20	0.00	0	542.52	0.00
50.40	0.00	0	542.52	0.00
50.60	0.00	0	542.52	0.00
50.80	0.00	0	542.52	0.00
51.00	0.00	0	542.52	0.00
51.20	0.00	0	542.52	0.00
51.40	0.00	0	542.52	0.00
51.60	0.00	0	542.52	0.00
51.80	0.00	0	542.52	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.52	0.00
52.20	0.00	0	542.52	0.00
52.40	0.00	0	542.52	0.00
52.60	0.00	0	542.52	0.00
52.80	0.00	0	542.52	0.00
53.00	0.00	0	542.52	0.00
53.20	0.00	0	542.52	0.00
53.40	0.00	0	542.52	0.00
53.60	0.00	0	542.52	0.00
53.80	0.00	0	542.52	0.00
54.00	0.00	0	542.52	0.00
54.20	0.00	0	542.52	0.00
54.40	0.00	0	542.52	0.00
54.60	0.00	0	542.52	0.00
54.80	0.00	0	542.52	0.00
55.00	0.00	0	542.52	0.00
55.20	0.00	0	542.52	0.00
55.40	0.00	0	542.52	0.00
55.60	0.00	0	542.52	0.00
55.80	0.00	0	542.52	0.00
56.00	0.00	0	542.52	0.00
56.20	0.00	0	542.52	0.00
56.40	0.00	0	542.52	0.00
56.60	0.00	0	542.52	0.00
56.80	0.00	0	542.52	0.00
57.00	0.00	0	542.52	0.00
57.20	0.00	0	542.52	0.00
57.40	0.00	0	542.52	0.00
57.60	0.00	0	542.52	0.00
57.80	0.00	0	542.52	0.00
58.00	0.00	0	542.52	0.00
58.20	0.00	0	542.52	0.00
58.40	0.00	0	542.52	0.00
58.60	0.00	0	542.52	0.00
58.80	0.00	0	542.52	0.00
59.00	0.00	0	542.52	0.00
59.20	0.00	0	542.52	0.00
59.40	0.00	0	542.52	0.00
59.60	0.00	0	542.52	0.00
59.80	0.00	0	542.52	0.00
60.00	0.00	0	542.52	0.00
60.20	0.00	0	542.52	0.00
60.40	0.00	0	542.52	0.00
60.60	0.00	0	542.52	0.00
60.80	0.00	0	542.52	0.00
61.00	0.00	0	542.52	0.00
61.20	0.00	0	542.52	0.00
61.40	0.00	0	542.52	0.00
61.60	0.00	0	542.52	0.00
61.80	0.00	0	542.52	0.00
62.00	0.00	0	542.52	0.00
62.20	0.00	0	542.52	0.00

**Hydrograph for Pond PV-2: Pervious Pavers 2 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.52	0.00
62.60	0.00	0	542.52	0.00
62.80	0.00	0	542.52	0.00
63.00	0.00	0	542.52	0.00
63.20	0.00	0	542.52	0.00
63.40	0.00	0	542.52	0.00
63.60	0.00	0	542.52	0.00
63.80	0.00	0	542.52	0.00
64.00	0.00	0	542.52	0.00
64.20	0.00	0	542.52	0.00
64.40	0.00	0	542.52	0.00
64.60	0.00	0	542.52	0.00
64.80	0.00	0	542.52	0.00
65.00	0.00	0	542.52	0.00
65.20	0.00	0	542.52	0.00
65.40	0.00	0	542.52	0.00
65.60	0.00	0	542.52	0.00
65.80	0.00	0	542.52	0.00
66.00	0.00	0	542.52	0.00
66.20	0.00	0	542.52	0.00
66.40	0.00	0	542.52	0.00
66.60	0.00	0	542.52	0.00
66.80	0.00	0	542.52	0.00
67.00	0.00	0	542.52	0.00
67.20	0.00	0	542.52	0.00
67.40	0.00	0	542.52	0.00
67.60	0.00	0	542.52	0.00
67.80	0.00	0	542.52	0.00
68.00	0.00	0	542.52	0.00
68.20	0.00	0	542.52	0.00
68.40	0.00	0	542.52	0.00
68.60	0.00	0	542.52	0.00
68.80	0.00	0	542.52	0.00
69.00	0.00	0	542.52	0.00
69.20	0.00	0	542.52	0.00
69.40	0.00	0	542.52	0.00
69.60	0.00	0	542.52	0.00
69.80	0.00	0	542.52	0.00
70.00	0.00	0	542.52	0.00
70.20	0.00	0	542.52	0.00
70.40	0.00	0	542.52	0.00
70.60	0.00	0	542.52	0.00
70.80	0.00	0	542.52	0.00
71.00	0.00	0	542.52	0.00
71.20	0.00	0	542.52	0.00
71.40	0.00	0	542.52	0.00
71.60	0.00	0	542.52	0.00
71.80	0.00	0	542.52	0.00
72.00	0.00	0	542.52	0.00



**Stage-Area-Storage for Pond PV-2: Pervious Pavers 2**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.52	2,214	0	543.04	2,214	461
542.53	2,214	9	543.05	2,214	469
542.54	2,214	18	543.06	2,214	478
542.55	2,214	27	543.07	2,214	487
542.56	2,214	35	543.08	2,214	496
542.57	2,214	44	543.09	2,214	505
542.58	2,214	53	543.10	2,214	514
542.59	2,214	62	543.11	2,214	523
542.60	2,214	71	543.12	2,214	531
542.61	2,214	80	543.13	2,214	540
542.62	2,214	89	543.14	2,214	549
542.63	2,214	97	543.15	2,214	558
542.64	2,214	106	543.16	2,214	567
542.65	2,214	115	543.17	2,214	576
542.66	2,214	124	543.18	2,214	584
542.67	2,214	133	543.19	2,214	593
542.68	2,214	142	543.20	2,214	602
542.69	2,214	151	543.21	2,214	611
542.70	2,214	159	543.22	2,214	620
542.71	2,214	168	543.23	2,214	629
542.72	2,214	177	543.24	2,214	638
542.73	2,214	186	543.25	2,214	646
542.74	2,214	195	543.26	2,214	655
542.75	2,214	204	543.27	2,214	664
542.76	2,214	213	543.28	2,214	673
542.77	2,214	221	543.29	2,214	682
542.78	2,214	230	543.30	2,214	691
542.79	2,214	239	543.31	2,214	700
542.80	2,214	248	543.32	2,214	708
542.81	2,214	257	543.33	2,214	717
542.82	2,214	266	543.34	2,214	726
542.83	2,214	275	543.35	2,214	735
542.84	2,214	283	543.36	2,214	744
542.85	2,214	292	543.37	2,214	753
542.86	2,214	301	543.38	2,214	762
542.87	2,214	310	543.39	2,214	770
542.88	2,214	319	543.40	2,214	779
542.89	2,214	328	543.41	2,214	788
542.90	2,214	337	543.42	2,214	797
542.91	2,214	345	543.43	2,214	806
542.92	2,214	354	543.44	2,214	815
542.93	2,214	363	543.45	2,214	824
542.94	2,214	372	543.46	2,214	832
542.95	2,214	381	543.47	2,214	841
542.96	2,214	390	543.48	2,214	850
542.97	2,214	399	543.49	2,214	859
542.98	2,214	407	543.50	2,214	868
542.99	2,214	416	543.51	2,214	877
543.00	2,214	425	543.52	2,214	886
543.01	2,214	434	543.53	2,214	894
543.02	2,214	443	543.54	2,214	903
543.03	2,214	452	543.55	2,214	912

**Stage-Area-Storage for Pond PV-2: Pervious Pavers 2 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.56	2,214	921
543.57	2,214	930
543.58	2,214	939
543.59	2,214	948
543.60	2,214	956
543.61	2,214	965
543.62	2,214	974
543.63	2,214	983
543.64	2,214	992
543.65	2,214	1,001
543.66	2,214	1,010
543.67	2,214	1,018
543.68	2,214	1,027
543.69	2,214	1,036
543.70	2,214	1,045
543.71	2,214	1,054
543.72	2,214	1,063
543.73	2,214	<b>1,072</b>

### Summary for Pond PV-3: Pervious Pavers 3

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,592 sf, 44.40% Impervious, Inflow Depth = 7.11" for 100-Year event  
 Inflow = 1.23 cfs @ 12.11 hrs, Volume= 3,906 cf  
 Outflow = 0.40 cfs @ 12.24 hrs, Volume= 3,906 cf, Atten= 67%, Lag= 7.9 min  
 Primary = 0.40 cfs @ 12.24 hrs, Volume= 3,906 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.79' @ 12.24 hrs Surf.Area= 2,400 sf Storage= 1,341 cf

Plug-Flow detention time= 131.7 min calculated for 3,905 cf (100% of inflow)  
 Center-of-Mass det. time= 132.0 min ( 899.7 - 767.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.39'	1,382 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,456 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.39	2,400	0	0
543.83	2,400	3,456	3,456

Device	Routing	Invert	Outlet Devices
#1	Primary	541.71'	<b>6.0" Round Culvert</b> L= 22.0' Ke= 0.500 Inlet / Outlet Invert= 541.71' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.38'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.03'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.40 cfs @ 12.24 hrs HW=543.79' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.40 cfs of 1.24 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.07 cfs @ 2.20 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.33 cfs @ 1.47 fps)

**Hydrograph for Pond PV-3: Pervious Pavers 3**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.39	0.00
0.20	0.00	0	542.39	0.00
0.40	0.00	0	542.39	0.00
0.60	0.00	0	542.39	0.00
0.80	0.00	1	542.39	0.00
1.00	0.00	2	542.39	0.00
1.20	0.00	4	542.39	0.00
1.40	0.00	6	542.40	0.00
1.60	0.00	9	542.40	0.00
1.80	0.00	12	542.40	0.00
2.00	0.00	15	542.41	0.00
2.20	0.01	18	542.41	0.00
2.40	0.01	22	542.41	0.00
2.60	0.01	25	542.42	0.00
2.80	0.01	29	542.42	0.00
3.00	0.01	32	542.42	0.00
3.20	0.01	36	542.43	0.00
3.40	0.01	40	542.43	0.00
3.60	0.01	43	542.44	0.00
3.80	0.01	47	542.44	0.00
4.00	0.01	50	542.44	0.00
4.20	0.01	54	542.45	0.00
4.40	0.01	58	542.45	0.00
4.60	0.01	61	542.45	0.00
4.80	0.01	65	542.46	0.00
5.00	0.01	69	542.46	0.00
5.20	0.01	73	542.47	0.01
5.40	0.01	76	542.47	0.01
5.60	0.01	80	542.47	0.01
5.80	0.01	84	542.48	0.01
6.00	0.01	88	542.48	0.01
6.20	0.01	92	542.49	0.01
6.40	0.01	96	542.49	0.01
6.60	0.02	100	542.49	0.01
6.80	0.02	105	542.50	0.01
7.00	0.02	110	542.50	0.01
7.20	0.02	115	542.51	0.01
7.40	0.02	120	542.52	0.01
7.60	0.02	126	542.52	0.01
7.80	0.02	131	542.53	0.01
8.00	0.02	137	542.53	0.01
8.20	0.02	143	542.54	0.02
8.40	0.02	150	542.55	0.02
8.60	0.03	156	542.55	0.02
8.80	0.03	163	542.56	0.02
9.00	0.03	169	542.57	0.02
9.20	0.03	177	542.57	0.02
9.40	0.04	187	542.58	0.02
9.60	0.04	198	542.60	0.02
9.80	0.04	211	542.61	0.02
10.00	0.05	226	542.62	0.02
10.20	0.05	242	542.64	0.03

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.05	260	542.66	0.03
10.60	0.06	281	542.68	0.03
10.80	0.08	308	542.71	0.03
11.00	0.09	344	542.75	0.03
11.20	0.11	391	542.80	0.04
11.40	0.14	453	542.86	0.04
11.60	0.20	537	542.95	0.04
11.80	0.29	669	543.09	0.06
12.00	<b>0.72</b>	920	543.35	0.21
12.20	<b>0.47</b>	<b>1,336</b>	<b>543.78</b>	<b>0.40</b>
12.40	0.23	<b>1,286</b>	<b>543.73</b>	<b>0.38</b>
12.60	0.17	1,173	543.61	0.34
12.80	0.14	1,053	543.49	0.29
13.00	0.12	953	543.38	0.24
13.20	0.10	877	543.30	0.18
13.40	0.08	824	543.25	0.14
13.60	0.07	783	543.21	0.12
13.80	0.06	751	543.17	0.10
14.00	0.06	728	543.15	0.09
14.20	0.06	709	543.13	0.08
14.40	0.05	693	543.11	0.07
14.60	0.05	679	543.10	0.07
14.80	0.04	666	543.08	0.06
15.00	0.04	654	543.07	0.06
15.20	0.04	641	543.06	0.05
15.40	0.04	630	543.05	0.05
15.60	0.04	620	543.04	0.05
15.80	0.03	610	543.03	0.05
16.00	0.03	600	543.01	0.05
16.20	0.03	589	543.00	0.05
16.40	0.03	578	542.99	0.05
16.60	0.03	567	542.98	0.05
16.80	0.03	555	542.97	0.05
17.00	0.03	542	542.95	0.05
17.20	0.03	530	542.94	0.04
17.40	0.03	517	542.93	0.04
17.60	0.02	504	542.91	0.04
17.80	0.02	490	542.90	0.04
18.00	0.02	476	542.89	0.04
18.20	0.02	462	542.87	0.04
18.40	0.02	448	542.86	0.04
18.60	0.02	435	542.84	0.04
18.80	0.02	422	542.83	0.04
19.00	0.02	409	542.82	0.04
19.20	0.02	397	542.80	0.04
19.40	0.02	385	542.79	0.04
19.60	0.02	373	542.78	0.04
19.80	0.02	362	542.77	0.03
20.00	0.02	351	542.76	0.03
20.20	0.02	340	542.74	0.03
20.40	0.02	330	542.73	0.03
20.60	0.02	320	542.72	0.03

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	310	542.71	0.03
21.00	0.02	301	542.70	0.03
21.20	0.02	291	542.69	0.03
21.40	0.02	282	542.68	0.03
21.60	0.02	274	542.68	0.03
21.80	0.02	265	542.67	0.03
22.00	0.02	257	542.66	0.03
22.20	0.02	250	542.65	0.03
22.40	0.02	242	542.64	0.03
22.60	0.02	235	542.63	0.03
22.80	0.02	228	542.63	0.02
23.00	0.01	221	542.62	0.02
23.20	0.01	215	542.61	0.02
23.40	0.01	208	542.61	0.02
23.60	0.01	202	542.60	0.02
23.80	0.01	196	542.59	0.02
24.00	0.01	191	542.59	0.02
24.20	0.00	178	542.58	0.02
24.40	0.00	164	542.56	0.02
24.60	0.00	152	542.55	0.02
24.80	0.00	141	542.54	0.01
25.00	0.00	131	542.53	0.01
25.20	0.00	122	542.52	0.01
25.40	0.00	113	542.51	0.01
25.60	0.00	106	542.50	0.01
25.80	0.00	99	542.49	0.01
26.00	0.00	93	542.49	0.01
26.20	0.00	88	542.48	0.01
26.40	0.00	83	542.48	0.01
26.60	0.00	79	542.47	0.01
26.80	0.00	74	542.47	0.01
27.00	0.00	71	542.46	0.01
27.20	0.00	67	542.46	0.00
27.40	0.00	64	542.46	0.00
27.60	0.00	61	542.45	0.00
27.80	0.00	58	542.45	0.00
28.00	0.00	56	542.45	0.00
28.20	0.00	53	542.45	0.00
28.40	0.00	51	542.44	0.00
28.60	0.00	49	542.44	0.00
28.80	0.00	47	542.44	0.00
29.00	0.00	45	542.44	0.00
29.20	0.00	43	542.44	0.00
29.40	0.00	42	542.43	0.00
29.60	0.00	40	542.43	0.00
29.80	0.00	39	542.43	0.00
30.00	0.00	38	542.43	0.00
30.20	0.00	36	542.43	0.00
30.40	0.00	35	542.43	0.00
30.60	0.00	34	542.43	0.00
30.80	0.00	33	542.42	0.00
31.00	0.00	32	542.42	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	31	542.42	0.00
31.40	0.00	30	542.42	0.00
31.60	0.00	29	542.42	0.00
31.80	0.00	28	542.42	0.00
32.00	0.00	27	542.42	0.00
32.20	0.00	26	542.42	0.00
32.40	0.00	25	542.42	0.00
32.60	0.00	25	542.42	0.00
32.80	0.00	24	542.42	0.00
33.00	0.00	23	542.41	0.00
33.20	0.00	23	542.41	0.00
33.40	0.00	22	542.41	0.00
33.60	0.00	21	542.41	0.00
33.80	0.00	21	542.41	0.00
34.00	0.00	20	542.41	0.00
34.20	0.00	20	542.41	0.00
34.40	0.00	19	542.41	0.00
34.60	0.00	19	542.41	0.00
34.80	0.00	18	542.41	0.00
35.00	0.00	18	542.41	0.00
35.20	0.00	17	542.41	0.00
35.40	0.00	17	542.41	0.00
35.60	0.00	16	542.41	0.00
35.80	0.00	16	542.41	0.00
36.00	0.00	16	542.41	0.00
36.20	0.00	15	542.41	0.00
36.40	0.00	15	542.41	0.00
36.60	0.00	15	542.41	0.00
36.80	0.00	14	542.40	0.00
37.00	0.00	14	542.40	0.00
37.20	0.00	13	542.40	0.00
37.40	0.00	13	542.40	0.00
37.60	0.00	13	542.40	0.00
37.80	0.00	13	542.40	0.00
38.00	0.00	12	542.40	0.00
38.20	0.00	12	542.40	0.00
38.40	0.00	12	542.40	0.00
38.60	0.00	11	542.40	0.00
38.80	0.00	11	542.40	0.00
39.00	0.00	11	542.40	0.00
39.20	0.00	11	542.40	0.00
39.40	0.00	10	542.40	0.00
39.60	0.00	10	542.40	0.00
39.80	0.00	10	542.40	0.00
40.00	0.00	10	542.40	0.00
40.20	0.00	9	542.40	0.00
40.40	0.00	9	542.40	0.00
40.60	0.00	9	542.40	0.00
40.80	0.00	9	542.40	0.00
41.00	0.00	8	542.40	0.00
41.20	0.00	8	542.40	0.00
41.40	0.00	8	542.40	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	8	542.40	0.00
41.80	0.00	8	542.40	0.00
42.00	0.00	8	542.40	0.00
42.20	0.00	7	542.40	0.00
42.40	0.00	7	542.40	0.00
42.60	0.00	7	542.40	0.00
42.80	0.00	7	542.40	0.00
43.00	0.00	7	542.40	0.00
43.20	0.00	6	542.40	0.00
43.40	0.00	6	542.40	0.00
43.60	0.00	6	542.40	0.00
43.80	0.00	6	542.40	0.00
44.00	0.00	6	542.40	0.00
44.20	0.00	6	542.40	0.00
44.40	0.00	6	542.40	0.00
44.60	0.00	5	542.40	0.00
44.80	0.00	5	542.40	0.00
45.00	0.00	5	542.40	0.00
45.20	0.00	5	542.40	0.00
45.40	0.00	5	542.40	0.00
45.60	0.00	5	542.39	0.00
45.80	0.00	5	542.39	0.00
46.00	0.00	4	542.39	0.00
46.20	0.00	4	542.39	0.00
46.40	0.00	4	542.39	0.00
46.60	0.00	4	542.39	0.00
46.80	0.00	4	542.39	0.00
47.00	0.00	4	542.39	0.00
47.20	0.00	4	542.39	0.00
47.40	0.00	4	542.39	0.00
47.60	0.00	4	542.39	0.00
47.80	0.00	3	542.39	0.00
48.00	0.00	3	542.39	0.00
48.20	0.00	3	542.39	0.00
48.40	0.00	3	542.39	0.00
48.60	0.00	3	542.39	0.00
48.80	0.00	3	542.39	0.00
49.00	0.00	3	542.39	0.00
49.20	0.00	3	542.39	0.00
49.40	0.00	3	542.39	0.00
49.60	0.00	3	542.39	0.00
49.80	0.00	2	542.39	0.00
50.00	0.00	2	542.39	0.00
50.20	0.00	2	542.39	0.00
50.40	0.00	2	542.39	0.00
50.60	0.00	2	542.39	0.00
50.80	0.00	2	542.39	0.00
51.00	0.00	2	542.39	0.00
51.20	0.00	2	542.39	0.00
51.40	0.00	2	542.39	0.00
51.60	0.00	2	542.39	0.00
51.80	0.00	2	542.39	0.00



**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	1	542.39	0.00
52.20	0.00	1	542.39	0.00
52.40	0.00	1	542.39	0.00
52.60	0.00	1	542.39	0.00
52.80	0.00	1	542.39	0.00
53.00	0.00	1	542.39	0.00
53.20	0.00	1	542.39	0.00
53.40	0.00	1	542.39	0.00
53.60	0.00	1	542.39	0.00
53.80	0.00	1	542.39	0.00
54.00	0.00	1	542.39	0.00
54.20	0.00	1	542.39	0.00
54.40	0.00	1	542.39	0.00
54.60	0.00	1	542.39	0.00
54.80	0.00	0	542.39	0.00
55.00	0.00	0	542.39	0.00
55.20	0.00	0	542.39	0.00
55.40	0.00	0	542.39	0.00
55.60	0.00	0	542.39	0.00
55.80	0.00	0	542.39	0.00
56.00	0.00	0	542.39	0.00
56.20	0.00	0	542.39	0.00
56.40	0.00	0	542.39	0.00
56.60	0.00	0	542.39	0.00
56.80	0.00	0	542.39	0.00
57.00	0.00	0	542.39	0.00
57.20	0.00	0	542.39	0.00
57.40	0.00	0	542.39	0.00
57.60	0.00	0	542.39	0.00
57.80	0.00	0	542.39	0.00
58.00	0.00	0	542.39	0.00
58.20	0.00	0	542.39	0.00
58.40	0.00	0	542.39	0.00
58.60	0.00	0	542.39	0.00
58.80	0.00	0	542.39	0.00
59.00	0.00	0	542.39	0.00
59.20	0.00	0	542.39	0.00
59.40	0.00	0	542.39	0.00
59.60	0.00	0	542.39	0.00
59.80	0.00	0	542.39	0.00
60.00	0.00	0	542.39	0.00
60.20	0.00	0	542.39	0.00
60.40	0.00	0	542.39	0.00
60.60	0.00	0	542.39	0.00
60.80	0.00	0	542.39	0.00
61.00	0.00	0	542.39	0.00
61.20	0.00	0	542.39	0.00
61.40	0.00	0	542.39	0.00
61.60	0.00	0	542.39	0.00
61.80	0.00	0	542.39	0.00
62.00	0.00	0	542.39	0.00
62.20	0.00	0	542.39	0.00

**Hydrograph for Pond PV-3: Pervious Pavers 3 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.39	0.00
62.60	0.00	0	542.39	0.00
62.80	0.00	0	542.39	0.00
63.00	0.00	0	542.39	0.00
63.20	0.00	0	542.39	0.00
63.40	0.00	0	542.39	0.00
63.60	0.00	0	542.39	0.00
63.80	0.00	0	542.39	0.00
64.00	0.00	0	542.39	0.00
64.20	0.00	0	542.39	0.00
64.40	0.00	0	542.39	0.00
64.60	0.00	0	542.39	0.00
64.80	0.00	0	542.39	0.00
65.00	0.00	0	542.39	0.00
65.20	0.00	0	542.39	0.00
65.40	0.00	0	542.39	0.00
65.60	0.00	0	542.39	0.00
65.80	0.00	0	542.39	0.00
66.00	0.00	0	542.39	0.00
66.20	0.00	0	542.39	0.00
66.40	0.00	0	542.39	0.00
66.60	0.00	0	542.39	0.00
66.80	0.00	0	542.39	0.00
67.00	0.00	0	542.39	0.00
67.20	0.00	0	542.39	0.00
67.40	0.00	0	542.39	0.00
67.60	0.00	0	542.39	0.00
67.80	0.00	0	542.39	0.00
68.00	0.00	0	542.39	0.00
68.20	0.00	0	542.39	0.00
68.40	0.00	0	542.39	0.00
68.60	0.00	0	542.39	0.00
68.80	0.00	0	542.39	0.00
69.00	0.00	0	542.39	0.00
69.20	0.00	0	542.39	0.00
69.40	0.00	0	542.39	0.00
69.60	0.00	0	542.39	0.00
69.80	0.00	0	542.39	0.00
70.00	0.00	0	542.39	0.00
70.20	0.00	0	542.39	0.00
70.40	0.00	0	542.39	0.00
70.60	0.00	0	542.39	0.00
70.80	0.00	0	542.39	0.00
71.00	0.00	0	542.39	0.00
71.20	0.00	0	542.39	0.00
71.40	0.00	0	542.39	0.00
71.60	0.00	0	542.39	0.00
71.80	0.00	0	542.39	0.00
72.00	0.00	0	542.39	0.00

**Stage-Area-Storage for Pond PV-3: Pervious Pavers 3**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.39	2,400	0	542.91	2,400	499
542.40	2,400	10	542.92	2,400	509
542.41	2,400	19	542.93	2,400	518
542.42	2,400	29	542.94	2,400	528
542.43	2,400	38	542.95	2,400	538
542.44	2,400	48	542.96	2,400	547
542.45	2,400	58	542.97	2,400	557
542.46	2,400	67	542.98	2,400	566
542.47	2,400	77	542.99	2,400	576
542.48	2,400	86	543.00	2,400	586
542.49	2,400	96	543.01	2,400	595
542.50	2,400	106	543.02	2,400	605
542.51	2,400	115	543.03	2,400	614
542.52	2,400	125	543.04	2,400	624
542.53	2,400	134	543.05	2,400	634
542.54	2,400	144	543.06	2,400	643
542.55	2,400	154	543.07	2,400	653
542.56	2,400	163	543.08	2,400	662
542.57	2,400	173	543.09	2,400	672
542.58	2,400	182	543.10	2,400	682
542.59	2,400	192	543.11	2,400	691
542.60	2,400	202	543.12	2,400	701
542.61	2,400	211	543.13	2,400	710
542.62	2,400	221	543.14	2,400	720
542.63	2,400	230	543.15	2,400	730
542.64	2,400	240	543.16	2,400	739
542.65	2,400	250	543.17	2,400	749
542.66	2,400	259	543.18	2,400	758
542.67	2,400	269	543.19	2,400	768
542.68	2,400	278	543.20	2,400	778
542.69	2,400	288	543.21	2,400	787
542.70	2,400	298	543.22	2,400	797
542.71	2,400	307	543.23	2,400	806
542.72	2,400	317	543.24	2,400	816
542.73	2,400	326	543.25	2,400	826
542.74	2,400	336	543.26	2,400	835
542.75	2,400	346	543.27	2,400	845
542.76	2,400	355	543.28	2,400	854
542.77	2,400	365	543.29	2,400	864
542.78	2,400	374	543.30	2,400	874
542.79	2,400	384	543.31	2,400	883
542.80	2,400	394	543.32	2,400	893
542.81	2,400	403	543.33	2,400	902
542.82	2,400	413	543.34	2,400	912
542.83	2,400	422	543.35	2,400	922
542.84	2,400	432	543.36	2,400	931
542.85	2,400	442	543.37	2,400	941
542.86	2,400	451	543.38	2,400	950
542.87	2,400	461	543.39	2,400	960
542.88	2,400	470	543.40	2,400	970
542.89	2,400	480	543.41	2,400	979
542.90	2,400	490	543.42	2,400	989

**Stage-Area-Storage for Pond PV-3: Pervious Pavers 3 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.43	2,400	998
543.44	2,400	1,008
543.45	2,400	1,018
543.46	2,400	1,027
543.47	2,400	1,037
543.48	2,400	1,046
543.49	2,400	1,056
543.50	2,400	1,066
543.51	2,400	1,075
543.52	2,400	1,085
543.53	2,400	1,094
543.54	2,400	1,104
543.55	2,400	1,114
543.56	2,400	1,123
543.57	2,400	1,133
543.58	2,400	1,142
543.59	2,400	1,152
543.60	2,400	1,162
543.61	2,400	1,171
543.62	2,400	1,181
543.63	2,400	1,190
543.64	2,400	1,200
543.65	2,400	1,210
543.66	2,400	1,219
543.67	2,400	1,229
543.68	2,400	1,238
543.69	2,400	1,248
543.70	2,400	1,258
543.71	2,400	1,267
543.72	2,400	1,277
543.73	2,400	1,286
543.74	2,400	1,296
543.75	2,400	1,306
543.76	2,400	1,315
543.77	2,400	1,325
543.78	2,400	1,334
543.79	2,400	1,344
543.80	2,400	1,354
543.81	2,400	1,363
543.82	2,400	1,373
543.83	2,400	<b>1,382</b>

**Summary for Pond PV-4: Pervious Pavers 4**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,530 sf, 44.29% Impervious, Inflow Depth = 7.17" for 100-Year event  
 Inflow = 1.03 cfs @ 12.11 hrs, Volume= 3,306 cf  
 Outflow = 0.37 cfs @ 12.23 hrs, Volume= 3,306 cf, Atten= 64%, Lag= 7.3 min  
 Primary = 0.37 cfs @ 12.23 hrs, Volume= 3,306 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.64' @ 12.23 hrs Surf.Area= 2,211 sf Storage= 1,091 cf

Plug-Flow detention time= 119.9 min calculated for 3,306 cf (100% of inflow)  
 Center-of-Mass det. time= 120.2 min ( 887.4 - 767.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.41'	1,256 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,140 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.41	2,211	0	0
543.83	2,211	3,140	3,140

Device	Routing	Invert	Outlet Devices
#1	Primary	540.82'	<b>6.0" Round Culvert</b> L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 540.82' / 540.80' S= 0.0040 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.40'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.98'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.37 cfs @ 12.23 hrs HW=543.64' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.37 cfs of 1.52 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.07 cfs @ 2.06 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.30 cfs @ 1.35 fps)

**Hydrograph for Pond PV-4: Pervious Pavers 4**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.41	0.00
0.20	0.00	0	542.41	0.00
0.40	0.00	0	542.41	0.00
0.60	0.00	0	542.41	0.00
0.80	0.00	1	542.41	0.00
1.00	0.00	2	542.41	0.00
1.20	0.00	3	542.41	0.00
1.40	0.00	5	542.42	0.00
1.60	0.00	7	542.42	0.00
1.80	0.00	10	542.42	0.00
2.00	0.00	12	542.42	0.00
2.20	0.00	15	542.43	0.00
2.40	0.00	18	542.43	0.00
2.60	0.00	21	542.43	0.00
2.80	0.01	24	542.44	0.00
3.00	0.01	27	542.44	0.00
3.20	0.01	30	542.44	0.00
3.40	0.01	33	542.45	0.00
3.60	0.01	36	542.45	0.00
3.80	0.01	39	542.45	0.00
4.00	0.01	42	542.46	0.00
4.20	0.01	45	542.46	0.00
4.40	0.01	48	542.46	0.00
4.60	0.01	52	542.47	0.00
4.80	0.01	55	542.47	0.00
5.00	0.01	58	542.48	0.00
5.20	0.01	61	542.48	0.00
5.40	0.01	65	542.48	0.00
5.60	0.01	68	542.49	0.01
5.80	0.01	71	542.49	0.01
6.00	0.01	74	542.49	0.01
6.20	0.01	78	542.50	0.01
6.40	0.01	81	542.50	0.01
6.60	0.01	85	542.51	0.01
6.80	0.01	89	542.51	0.01
7.00	0.01	93	542.52	0.01
7.20	0.02	97	542.52	0.01
7.40	0.02	102	542.52	0.01
7.60	0.02	106	542.53	0.01
7.80	0.02	111	542.54	0.01
8.00	0.02	116	542.54	0.01
8.20	0.02	121	542.55	0.01
8.40	0.02	126	542.55	0.01
8.60	0.02	131	542.56	0.02
8.80	0.02	136	542.56	0.02
9.00	0.02	142	542.57	0.02
9.20	0.03	148	542.58	0.02
9.40	0.03	155	542.59	0.02
9.60	0.03	164	542.60	0.02
9.80	0.04	174	542.61	0.02
10.00	0.04	186	542.62	0.02
10.20	0.04	199	542.63	0.02

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.05	213	542.65	0.03
10.60	0.05	229	542.67	0.03
10.80	0.06	251	542.69	0.03
11.00	0.07	280	542.73	0.03
11.20	0.09	317	542.77	0.03
11.40	0.11	367	542.83	0.04
11.60	0.17	435	542.90	0.04
11.80	0.25	542	543.02	0.05
12.00	<b>0.60</b>	743	543.25	0.18
12.20	<b>0.43</b>	<b>1,087</b>	<b>543.64</b>	<b>0.37</b>
12.40	0.20	<b>1,034</b>	<b>543.58</b>	<b>0.35</b>
12.60	0.14	928	543.46	0.30
12.80	0.12	825	543.34	0.24
13.00	0.10	751	543.26	0.18
13.20	0.08	698	543.20	0.14
13.40	0.07	659	543.16	0.12
13.60	0.06	628	543.12	0.10
13.80	0.05	604	543.09	0.08
14.00	0.05	585	543.07	0.07
14.20	0.05	570	543.05	0.07
14.40	0.04	557	543.04	0.06
14.60	0.04	545	543.03	0.06
14.80	0.04	534	543.01	0.05
15.00	0.03	523	543.00	0.05
15.20	0.03	512	542.99	0.05
15.40	0.03	502	542.98	0.05
15.60	0.03	492	542.97	0.04
15.80	0.03	481	542.95	0.04
16.00	0.03	470	542.94	0.04
16.20	0.03	459	542.93	0.04
16.40	0.03	447	542.92	0.04
16.60	0.03	436	542.90	0.04
16.80	0.02	424	542.89	0.04
17.00	0.02	412	542.88	0.04
17.20	0.02	400	542.86	0.04
17.40	0.02	388	542.85	0.04
17.60	0.02	376	542.83	0.04
17.80	0.02	363	542.82	0.04
18.00	0.02	351	542.81	0.04
18.20	0.02	338	542.79	0.04
18.40	0.02	326	542.78	0.03
18.60	0.02	315	542.77	0.03
18.80	0.02	303	542.75	0.03
19.00	0.02	293	542.74	0.03
19.20	0.02	282	542.73	0.03
19.40	0.02	272	542.72	0.03
19.60	0.02	263	542.71	0.03
19.80	0.02	253	542.70	0.03
20.00	0.02	245	542.69	0.03
20.20	0.02	236	542.68	0.03
20.40	0.02	228	542.67	0.03
20.60	0.02	220	542.66	0.03

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	213	542.65	0.03
21.00	0.01	206	542.64	0.02
21.20	0.01	199	542.64	0.02
21.40	0.01	193	542.63	0.02
21.60	0.01	187	542.62	0.02
21.80	0.01	181	542.61	0.02
22.00	0.01	176	542.61	0.02
22.20	0.01	170	542.60	0.02
22.40	0.01	165	542.60	0.02
22.60	0.01	161	542.59	0.02
22.80	0.01	156	542.59	0.02
23.00	0.01	152	542.58	0.02
23.20	0.01	148	542.58	0.02
23.40	0.01	144	542.57	0.02
23.60	0.01	141	542.57	0.02
23.80	0.01	137	542.57	0.02
24.00	0.01	134	542.56	0.02
24.20	0.00	126	542.55	0.01
24.40	0.00	116	542.54	0.01
24.60	0.00	108	542.53	0.01
24.80	0.00	100	542.52	0.01
25.00	0.00	93	542.52	0.01
25.20	0.00	87	542.51	0.01
25.40	0.00	82	542.50	0.01
25.60	0.00	77	542.50	0.01
25.80	0.00	72	542.49	0.01
26.00	0.00	68	542.49	0.01
26.20	0.00	64	542.48	0.00
26.40	0.00	61	542.48	0.00
26.60	0.00	58	542.48	0.00
26.80	0.00	55	542.47	0.00
27.00	0.00	52	542.47	0.00
27.20	0.00	50	542.47	0.00
27.40	0.00	48	542.46	0.00
27.60	0.00	45	542.46	0.00
27.80	0.00	43	542.46	0.00
28.00	0.00	42	542.46	0.00
28.20	0.00	40	542.46	0.00
28.40	0.00	38	542.45	0.00
28.60	0.00	37	542.45	0.00
28.80	0.00	35	542.45	0.00
29.00	0.00	34	542.45	0.00
29.20	0.00	33	542.45	0.00
29.40	0.00	32	542.45	0.00
29.60	0.00	30	542.44	0.00
29.80	0.00	29	542.44	0.00
30.00	0.00	28	542.44	0.00
30.20	0.00	27	542.44	0.00
30.40	0.00	26	542.44	0.00
30.60	0.00	26	542.44	0.00
30.80	0.00	25	542.44	0.00
31.00	0.00	24	542.44	0.00



**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	23	542.44	0.00
31.40	0.00	22	542.44	0.00
31.60	0.00	22	542.43	0.00
31.80	0.00	21	542.43	0.00
32.00	0.00	21	542.43	0.00
32.20	0.00	20	542.43	0.00
32.40	0.00	19	542.43	0.00
32.60	0.00	19	542.43	0.00
32.80	0.00	18	542.43	0.00
33.00	0.00	18	542.43	0.00
33.20	0.00	17	542.43	0.00
33.40	0.00	17	542.43	0.00
33.60	0.00	16	542.43	0.00
33.80	0.00	16	542.43	0.00
34.00	0.00	15	542.43	0.00
34.20	0.00	15	542.43	0.00
34.40	0.00	15	542.43	0.00
34.60	0.00	14	542.43	0.00
34.80	0.00	14	542.43	0.00
35.00	0.00	13	542.43	0.00
35.20	0.00	13	542.42	0.00
35.40	0.00	13	542.42	0.00
35.60	0.00	12	542.42	0.00
35.80	0.00	12	542.42	0.00
36.00	0.00	12	542.42	0.00
36.20	0.00	11	542.42	0.00
36.40	0.00	11	542.42	0.00
36.60	0.00	11	542.42	0.00
36.80	0.00	11	542.42	0.00
37.00	0.00	10	542.42	0.00
37.20	0.00	10	542.42	0.00
37.40	0.00	10	542.42	0.00
37.60	0.00	9	542.42	0.00
37.80	0.00	9	542.42	0.00
38.00	0.00	9	542.42	0.00
38.20	0.00	9	542.42	0.00
38.40	0.00	9	542.42	0.00
38.60	0.00	8	542.42	0.00
38.80	0.00	8	542.42	0.00
39.00	0.00	8	542.42	0.00
39.20	0.00	8	542.42	0.00
39.40	0.00	7	542.42	0.00
39.60	0.00	7	542.42	0.00
39.80	0.00	7	542.42	0.00
40.00	0.00	7	542.42	0.00
40.20	0.00	7	542.42	0.00
40.40	0.00	7	542.42	0.00
40.60	0.00	6	542.42	0.00
40.80	0.00	6	542.42	0.00
41.00	0.00	6	542.42	0.00
41.20	0.00	6	542.42	0.00
41.40	0.00	6	542.42	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	6	542.42	0.00
41.80	0.00	5	542.42	0.00
42.00	0.00	5	542.42	0.00
42.20	0.00	5	542.42	0.00
42.40	0.00	5	542.42	0.00
42.60	0.00	5	542.42	0.00
42.80	0.00	5	542.42	0.00
43.00	0.00	5	542.42	0.00
43.20	0.00	4	542.41	0.00
43.40	0.00	4	542.41	0.00
43.60	0.00	4	542.41	0.00
43.80	0.00	4	542.41	0.00
44.00	0.00	4	542.41	0.00
44.20	0.00	4	542.41	0.00
44.40	0.00	4	542.41	0.00
44.60	0.00	4	542.41	0.00
44.80	0.00	3	542.41	0.00
45.00	0.00	3	542.41	0.00
45.20	0.00	3	542.41	0.00
45.40	0.00	3	542.41	0.00
45.60	0.00	3	542.41	0.00
45.80	0.00	3	542.41	0.00
46.00	0.00	3	542.41	0.00
46.20	0.00	3	542.41	0.00
46.40	0.00	3	542.41	0.00
46.60	0.00	3	542.41	0.00
46.80	0.00	2	542.41	0.00
47.00	0.00	2	542.41	0.00
47.20	0.00	2	542.41	0.00
47.40	0.00	2	542.41	0.00
47.60	0.00	2	542.41	0.00
47.80	0.00	2	542.41	0.00
48.00	0.00	2	542.41	0.00
48.20	0.00	2	542.41	0.00
48.40	0.00	2	542.41	0.00
48.60	0.00	2	542.41	0.00
48.80	0.00	2	542.41	0.00
49.00	0.00	1	542.41	0.00
49.20	0.00	1	542.41	0.00
49.40	0.00	1	542.41	0.00
49.60	0.00	1	542.41	0.00
49.80	0.00	1	542.41	0.00
50.00	0.00	1	542.41	0.00
50.20	0.00	1	542.41	0.00
50.40	0.00	1	542.41	0.00
50.60	0.00	1	542.41	0.00
50.80	0.00	1	542.41	0.00
51.00	0.00	1	542.41	0.00
51.20	0.00	1	542.41	0.00
51.40	0.00	1	542.41	0.00
51.60	0.00	1	542.41	0.00
51.80	0.00	0	542.41	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	542.41	0.00
52.20	0.00	0	542.41	0.00
52.40	0.00	0	542.41	0.00
52.60	0.00	0	542.41	0.00
52.80	0.00	0	542.41	0.00
53.00	0.00	0	542.41	0.00
53.20	0.00	0	542.41	0.00
53.40	0.00	0	542.41	0.00
53.60	0.00	0	542.41	0.00
53.80	0.00	0	542.41	0.00
54.00	0.00	0	542.41	0.00
54.20	0.00	0	542.41	0.00
54.40	0.00	0	542.41	0.00
54.60	0.00	0	542.41	0.00
54.80	0.00	0	542.41	0.00
55.00	0.00	0	542.41	0.00
55.20	0.00	0	542.41	0.00
55.40	0.00	0	542.41	0.00
55.60	0.00	0	542.41	0.00
55.80	0.00	0	542.41	0.00
56.00	0.00	0	542.41	0.00
56.20	0.00	0	542.41	0.00
56.40	0.00	0	542.41	0.00
56.60	0.00	0	542.41	0.00
56.80	0.00	0	542.41	0.00
57.00	0.00	0	542.41	0.00
57.20	0.00	0	542.41	0.00
57.40	0.00	0	542.41	0.00
57.60	0.00	0	542.41	0.00
57.80	0.00	0	542.41	0.00
58.00	0.00	0	542.41	0.00
58.20	0.00	0	542.41	0.00
58.40	0.00	0	542.41	0.00
58.60	0.00	0	542.41	0.00
58.80	0.00	0	542.41	0.00
59.00	0.00	0	542.41	0.00
59.20	0.00	0	542.41	0.00
59.40	0.00	0	542.41	0.00
59.60	0.00	0	542.41	0.00
59.80	0.00	0	542.41	0.00
60.00	0.00	0	542.41	0.00
60.20	0.00	0	542.41	0.00
60.40	0.00	0	542.41	0.00
60.60	0.00	0	542.41	0.00
60.80	0.00	0	542.41	0.00
61.00	0.00	0	542.41	0.00
61.20	0.00	0	542.41	0.00
61.40	0.00	0	542.41	0.00
61.60	0.00	0	542.41	0.00
61.80	0.00	0	542.41	0.00
62.00	0.00	0	542.41	0.00
62.20	0.00	0	542.41	0.00

**Hydrograph for Pond PV-4: Pervious Pavers 4 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.41	0.00
62.60	0.00	0	542.41	0.00
62.80	0.00	0	542.41	0.00
63.00	0.00	0	542.41	0.00
63.20	0.00	0	542.41	0.00
63.40	0.00	0	542.41	0.00
63.60	0.00	0	542.41	0.00
63.80	0.00	0	542.41	0.00
64.00	0.00	0	542.41	0.00
64.20	0.00	0	542.41	0.00
64.40	0.00	0	542.41	0.00
64.60	0.00	0	542.41	0.00
64.80	0.00	0	542.41	0.00
65.00	0.00	0	542.41	0.00
65.20	0.00	0	542.41	0.00
65.40	0.00	0	542.41	0.00
65.60	0.00	0	542.41	0.00
65.80	0.00	0	542.41	0.00
66.00	0.00	0	542.41	0.00
66.20	0.00	0	542.41	0.00
66.40	0.00	0	542.41	0.00
66.60	0.00	0	542.41	0.00
66.80	0.00	0	542.41	0.00
67.00	0.00	0	542.41	0.00
67.20	0.00	0	542.41	0.00
67.40	0.00	0	542.41	0.00
67.60	0.00	0	542.41	0.00
67.80	0.00	0	542.41	0.00
68.00	0.00	0	542.41	0.00
68.20	0.00	0	542.41	0.00
68.40	0.00	0	542.41	0.00
68.60	0.00	0	542.41	0.00
68.80	0.00	0	542.41	0.00
69.00	0.00	0	542.41	0.00
69.20	0.00	0	542.41	0.00
69.40	0.00	0	542.41	0.00
69.60	0.00	0	542.41	0.00
69.80	0.00	0	542.41	0.00
70.00	0.00	0	542.41	0.00
70.20	0.00	0	542.41	0.00
70.40	0.00	0	542.41	0.00
70.60	0.00	0	542.41	0.00
70.80	0.00	0	542.41	0.00
71.00	0.00	0	542.41	0.00
71.20	0.00	0	542.41	0.00
71.40	0.00	0	542.41	0.00
71.60	0.00	0	542.41	0.00
71.80	0.00	0	542.41	0.00
72.00	0.00	0	542.41	0.00

**Stage-Area-Storage for Pond PV-4: Pervious Pavers 4**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.41	2,211	0	542.93	2,211	460
542.42	2,211	9	542.94	2,211	469
542.43	2,211	18	542.95	2,211	478
542.44	2,211	27	542.96	2,211	486
542.45	2,211	35	542.97	2,211	495
542.46	2,211	44	542.98	2,211	504
542.47	2,211	53	542.99	2,211	513
542.48	2,211	62	543.00	2,211	522
542.49	2,211	71	543.01	2,211	531
542.50	2,211	80	543.02	2,211	539
542.51	2,211	88	543.03	2,211	548
542.52	2,211	97	543.04	2,211	557
542.53	2,211	106	543.05	2,211	566
542.54	2,211	115	543.06	2,211	575
542.55	2,211	124	543.07	2,211	584
542.56	2,211	133	543.08	2,211	593
542.57	2,211	142	543.09	2,211	601
542.58	2,211	150	543.10	2,211	610
542.59	2,211	159	543.11	2,211	619
542.60	2,211	168	543.12	2,211	628
542.61	2,211	177	543.13	2,211	637
542.62	2,211	186	543.14	2,211	646
542.63	2,211	195	543.15	2,211	654
542.64	2,211	203	543.16	2,211	663
542.65	2,211	212	543.17	2,211	672
542.66	2,211	221	543.18	2,211	681
542.67	2,211	230	543.19	2,211	690
542.68	2,211	239	543.20	2,211	699
542.69	2,211	248	543.21	2,211	708
542.70	2,211	256	543.22	2,211	716
542.71	2,211	265	543.23	2,211	725
542.72	2,211	274	543.24	2,211	734
542.73	2,211	283	543.25	2,211	743
542.74	2,211	292	543.26	2,211	752
542.75	2,211	301	543.27	2,211	761
542.76	2,211	310	543.28	2,211	769
542.77	2,211	318	543.29	2,211	778
542.78	2,211	327	543.30	2,211	787
542.79	2,211	336	543.31	2,211	796
542.80	2,211	345	543.32	2,211	805
542.81	2,211	354	543.33	2,211	814
542.82	2,211	363	543.34	2,211	822
542.83	2,211	371	543.35	2,211	831
542.84	2,211	380	543.36	2,211	840
542.85	2,211	389	543.37	2,211	849
542.86	2,211	398	543.38	2,211	858
542.87	2,211	407	543.39	2,211	867
542.88	2,211	416	543.40	2,211	876
542.89	2,211	425	543.41	2,211	884
542.90	2,211	433	543.42	2,211	893
542.91	2,211	442	543.43	2,211	902
542.92	2,211	451	543.44	2,211	911

**Stage-Area-Storage for Pond PV-4: Pervious Pavers 4 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.45	2,211	920
543.46	2,211	929
543.47	2,211	937
543.48	2,211	946
543.49	2,211	955
543.50	2,211	964
543.51	2,211	973
543.52	2,211	982
543.53	2,211	991
543.54	2,211	999
543.55	2,211	1,008
543.56	2,211	1,017
543.57	2,211	1,026
543.58	2,211	1,035
543.59	2,211	1,044
543.60	2,211	1,052
543.61	2,211	1,061
543.62	2,211	1,070
543.63	2,211	1,079
543.64	2,211	1,088
543.65	2,211	1,097
543.66	2,211	1,106
543.67	2,211	1,114
543.68	2,211	1,123
543.69	2,211	1,132
543.70	2,211	1,141
543.71	2,211	1,150
543.72	2,211	1,159
543.73	2,211	1,167
543.74	2,211	1,176
543.75	2,211	1,185
543.76	2,211	1,194
543.77	2,211	1,203
543.78	2,211	1,212
543.79	2,211	1,220
543.80	2,211	1,229
543.81	2,211	1,238
543.82	2,211	1,247
543.83	2,211	<b>1,256</b>

**Summary for Pond PV-5: Pervious Pavers 5**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,285 sf, 35.16% Impervious, Inflow Depth = 6.94" for 100-Year event  
 Inflow = 1.16 cfs @ 12.11 hrs, Volume= 3,637 cf  
 Outflow = 0.39 cfs @ 12.23 hrs, Volume= 3,637 cf, Atten= 67%, Lag= 7.6 min  
 Primary = 0.39 cfs @ 12.23 hrs, Volume= 3,637 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.81' @ 12.23 hrs Surf.Area= 2,400 sf Storage= 1,235 cf

Plug-Flow detention time= 127.3 min calculated for 3,637 cf (100% of inflow)  
 Center-of-Mass det. time= 127.6 min ( 900.8 - 773.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.52'	1,258 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,144 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.52	2,400	0	0
543.83	2,400	3,144	3,144

Device	Routing	Invert	Outlet Devices
#1	Primary	541.65'	<b>6.0" Round Culvert</b> L= 10.0' Ke= 0.500 Inlet / Outlet Invert= 541.65' / 541.60' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.51'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.09'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.39 cfs @ 12.23 hrs HW=543.81' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.39 cfs of 1.31 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.07 cfs @ 2.10 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.32 cfs @ 1.42 fps)

**Hydrograph for Pond PV-5: Pervious Pavers 5**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.52	0.00
0.20	0.00	0	542.52	0.00
0.40	0.00	0	542.52	0.00
0.60	0.00	0	542.52	0.00
0.80	0.00	1	542.52	0.00
1.00	0.00	2	542.52	0.00
1.20	0.00	3	542.52	0.00
1.40	0.00	5	542.52	0.00
1.60	0.00	7	542.53	0.00
1.80	0.00	9	542.53	0.00
2.00	0.00	11	542.53	0.00
2.20	0.00	14	542.53	0.00
2.40	0.00	16	542.54	0.00
2.60	0.00	19	542.54	0.00
2.80	0.00	22	542.54	0.00
3.00	0.00	25	542.55	0.00
3.20	0.01	28	542.55	0.00
3.40	0.01	30	542.55	0.00
3.60	0.01	33	542.55	0.00
3.80	0.01	36	542.56	0.00
4.00	0.01	39	542.56	0.00
4.20	0.01	42	542.56	0.00
4.40	0.01	45	542.57	0.00
4.60	0.01	48	542.57	0.00
4.80	0.01	52	542.57	0.00
5.00	0.01	55	542.58	0.00
5.20	0.01	59	542.58	0.00
5.40	0.01	62	542.58	0.00
5.60	0.01	66	542.59	0.00
5.80	0.01	69	542.59	0.00
6.00	0.01	73	542.60	0.01
6.20	0.01	77	542.60	0.01
6.40	0.01	81	542.60	0.01
6.60	0.01	85	542.61	0.01
6.80	0.01	90	542.61	0.01
7.00	0.01	94	542.62	0.01
7.20	0.02	99	542.62	0.01
7.40	0.02	105	542.63	0.01
7.60	0.02	110	542.63	0.01
7.80	0.02	115	542.64	0.01
8.00	0.02	121	542.65	0.01
8.20	0.02	127	542.65	0.01
8.40	0.02	133	542.66	0.01
8.60	0.02	139	542.67	0.01
8.80	0.02	146	542.67	0.02
9.00	0.03	152	542.68	0.02
9.20	0.03	159	542.69	0.02
9.40	0.03	168	542.70	0.02
9.60	0.04	178	542.71	0.02
9.80	0.04	190	542.72	0.02
10.00	0.04	203	542.73	0.02
10.20	0.05	218	542.75	0.02



**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.05	235	542.76	0.03
10.60	0.06	253	542.78	0.03
10.80	0.07	279	542.81	0.03
11.00	0.08	312	542.84	0.03
11.20	0.10	355	542.89	0.03
11.40	0.13	412	542.95	0.04
11.60	0.19	490	543.03	0.04
11.80	0.28	612	543.16	0.06
12.00	<b>0.68</b>	846	543.40	0.21
12.20	<b>0.44</b>	<b>1,231</b>	<b>543.80</b>	<b>0.39</b>
12.40	0.22	<b>1,178</b>	<b>543.75</b>	<b>0.37</b>
12.60	0.16	1,069	543.63	0.33
12.80	0.13	955	543.52	0.28
13.00	0.11	863	543.42	0.22
13.20	0.09	795	543.35	0.17
13.40	0.08	746	543.30	0.14
13.60	0.06	708	543.26	0.11
13.80	0.06	679	543.23	0.09
14.00	0.06	657	543.20	0.08
14.20	0.05	639	543.19	0.07
14.40	0.05	624	543.17	0.07
14.60	0.05	611	543.16	0.06
14.80	0.04	599	543.14	0.06
15.00	0.04	587	543.13	0.05
15.20	0.04	575	543.12	0.05
15.40	0.03	565	543.11	0.05
15.60	0.03	555	543.10	0.05
15.80	0.03	546	543.09	0.05
16.00	0.03	537	543.08	0.04
16.20	0.03	527	543.07	0.04
16.40	0.03	517	543.06	0.04
16.60	0.03	506	543.05	0.04
16.80	0.03	496	543.04	0.04
17.00	0.03	484	543.02	0.04
17.20	0.03	473	543.01	0.04
17.40	0.02	461	543.00	0.04
17.60	0.02	449	542.99	0.04
17.80	0.02	437	542.97	0.04
18.00	0.02	424	542.96	0.04
18.20	0.02	412	542.95	0.04
18.40	0.02	399	542.94	0.04
18.60	0.02	387	542.92	0.04
18.80	0.02	375	542.91	0.04
19.00	0.02	364	542.90	0.04
19.20	0.02	353	542.89	0.03
19.40	0.02	342	542.88	0.03
19.60	0.02	332	542.87	0.03
19.80	0.02	322	542.85	0.03
20.00	0.02	312	542.84	0.03
20.20	0.02	302	542.83	0.03
20.40	0.02	293	542.83	0.03
20.60	0.02	284	542.82	0.03

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	276	542.81	0.03
21.00	0.02	267	542.80	0.03
21.20	0.02	259	542.79	0.03
21.40	0.02	252	542.78	0.03
21.60	0.02	244	542.77	0.03
21.80	0.02	237	542.77	0.03
22.00	0.02	230	542.76	0.03
22.20	0.02	223	542.75	0.02
22.40	0.01	217	542.75	0.02
22.60	0.01	210	542.74	0.02
22.80	0.01	205	542.73	0.02
23.00	0.01	199	542.73	0.02
23.20	0.01	193	542.72	0.02
23.40	0.01	188	542.72	0.02
23.60	0.01	183	542.71	0.02
23.80	0.01	178	542.71	0.02
24.00	0.01	173	542.70	0.02
24.20	0.00	162	542.69	0.02
24.40	0.00	150	542.68	0.02
24.60	0.00	138	542.66	0.01
24.80	0.00	129	542.65	0.01
25.00	0.00	120	542.64	0.01
25.20	0.00	112	542.64	0.01
25.40	0.00	105	542.63	0.01
25.60	0.00	98	542.62	0.01
25.80	0.00	92	542.62	0.01
26.00	0.00	87	542.61	0.01
26.20	0.00	82	542.61	0.01
26.40	0.00	78	542.60	0.01
26.60	0.00	74	542.60	0.01
26.80	0.00	70	542.59	0.00
27.00	0.00	67	542.59	0.00
27.20	0.00	63	542.59	0.00
27.40	0.00	60	542.58	0.00
27.60	0.00	58	542.58	0.00
27.80	0.00	55	542.58	0.00
28.00	0.00	53	542.58	0.00
28.20	0.00	51	542.57	0.00
28.40	0.00	49	542.57	0.00
28.60	0.00	47	542.57	0.00
28.80	0.00	45	542.57	0.00
29.00	0.00	43	542.56	0.00
29.20	0.00	42	542.56	0.00
29.40	0.00	40	542.56	0.00
29.60	0.00	39	542.56	0.00
29.80	0.00	37	542.56	0.00
30.00	0.00	36	542.56	0.00
30.20	0.00	35	542.56	0.00
30.40	0.00	34	542.55	0.00
30.60	0.00	32	542.55	0.00
30.80	0.00	31	542.55	0.00
31.00	0.00	30	542.55	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	29	542.55	0.00
31.40	0.00	29	542.55	0.00
31.60	0.00	28	542.55	0.00
31.80	0.00	27	542.55	0.00
32.00	0.00	26	542.55	0.00
32.20	0.00	25	542.55	0.00
32.40	0.00	25	542.55	0.00
32.60	0.00	24	542.54	0.00
32.80	0.00	23	542.54	0.00
33.00	0.00	23	542.54	0.00
33.20	0.00	22	542.54	0.00
33.40	0.00	21	542.54	0.00
33.60	0.00	21	542.54	0.00
33.80	0.00	20	542.54	0.00
34.00	0.00	20	542.54	0.00
34.20	0.00	19	542.54	0.00
34.40	0.00	19	542.54	0.00
34.60	0.00	18	542.54	0.00
34.80	0.00	18	542.54	0.00
35.00	0.00	17	542.54	0.00
35.20	0.00	17	542.54	0.00
35.40	0.00	16	542.54	0.00
35.60	0.00	16	542.54	0.00
35.80	0.00	16	542.54	0.00
36.00	0.00	15	542.54	0.00
36.20	0.00	15	542.54	0.00
36.40	0.00	14	542.54	0.00
36.60	0.00	14	542.53	0.00
36.80	0.00	14	542.53	0.00
37.00	0.00	13	542.53	0.00
37.20	0.00	13	542.53	0.00
37.40	0.00	13	542.53	0.00
37.60	0.00	12	542.53	0.00
37.80	0.00	12	542.53	0.00
38.00	0.00	12	542.53	0.00
38.20	0.00	12	542.53	0.00
38.40	0.00	11	542.53	0.00
38.60	0.00	11	542.53	0.00
38.80	0.00	11	542.53	0.00
39.00	0.00	10	542.53	0.00
39.20	0.00	10	542.53	0.00
39.40	0.00	10	542.53	0.00
39.60	0.00	10	542.53	0.00
39.80	0.00	10	542.53	0.00
40.00	0.00	9	542.53	0.00
40.20	0.00	9	542.53	0.00
40.40	0.00	9	542.53	0.00
40.60	0.00	9	542.53	0.00
40.80	0.00	8	542.53	0.00
41.00	0.00	8	542.53	0.00
41.20	0.00	8	542.53	0.00
41.40	0.00	8	542.53	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	8	542.53	0.00
41.80	0.00	7	542.53	0.00
42.00	0.00	7	542.53	0.00
42.20	0.00	7	542.53	0.00
42.40	0.00	7	542.53	0.00
42.60	0.00	7	542.53	0.00
42.80	0.00	7	542.53	0.00
43.00	0.00	6	542.53	0.00
43.20	0.00	6	542.53	0.00
43.40	0.00	6	542.53	0.00
43.60	0.00	6	542.53	0.00
43.80	0.00	6	542.53	0.00
44.00	0.00	6	542.53	0.00
44.20	0.00	6	542.53	0.00
44.40	0.00	5	542.53	0.00
44.60	0.00	5	542.53	0.00
44.80	0.00	5	542.53	0.00
45.00	0.00	5	542.53	0.00
45.20	0.00	5	542.53	0.00
45.40	0.00	5	542.52	0.00
45.60	0.00	5	542.52	0.00
45.80	0.00	4	542.52	0.00
46.00	0.00	4	542.52	0.00
46.20	0.00	4	542.52	0.00
46.40	0.00	4	542.52	0.00
46.60	0.00	4	542.52	0.00
46.80	0.00	4	542.52	0.00
47.00	0.00	4	542.52	0.00
47.20	0.00	4	542.52	0.00
47.40	0.00	4	542.52	0.00
47.60	0.00	3	542.52	0.00
47.80	0.00	3	542.52	0.00
48.00	0.00	3	542.52	0.00
48.20	0.00	3	542.52	0.00
48.40	0.00	3	542.52	0.00
48.60	0.00	3	542.52	0.00
48.80	0.00	3	542.52	0.00
49.00	0.00	3	542.52	0.00
49.20	0.00	3	542.52	0.00
49.40	0.00	3	542.52	0.00
49.60	0.00	2	542.52	0.00
49.80	0.00	2	542.52	0.00
50.00	0.00	2	542.52	0.00
50.20	0.00	2	542.52	0.00
50.40	0.00	2	542.52	0.00
50.60	0.00	2	542.52	0.00
50.80	0.00	2	542.52	0.00
51.00	0.00	2	542.52	0.00
51.20	0.00	2	542.52	0.00
51.40	0.00	2	542.52	0.00
51.60	0.00	2	542.52	0.00
51.80	0.00	1	542.52	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	1	542.52	0.00
52.20	0.00	1	542.52	0.00
52.40	0.00	1	542.52	0.00
52.60	0.00	1	542.52	0.00
52.80	0.00	1	542.52	0.00
53.00	0.00	1	542.52	0.00
53.20	0.00	1	542.52	0.00
53.40	0.00	1	542.52	0.00
53.60	0.00	1	542.52	0.00
53.80	0.00	1	542.52	0.00
54.00	0.00	1	542.52	0.00
54.20	0.00	1	542.52	0.00
54.40	0.00	1	542.52	0.00
54.60	0.00	0	542.52	0.00
54.80	0.00	0	542.52	0.00
55.00	0.00	0	542.52	0.00
55.20	0.00	0	542.52	0.00
55.40	0.00	0	542.52	0.00
55.60	0.00	0	542.52	0.00
55.80	0.00	0	542.52	0.00
56.00	0.00	0	542.52	0.00
56.20	0.00	0	542.52	0.00
56.40	0.00	0	542.52	0.00
56.60	0.00	0	542.52	0.00
56.80	0.00	0	542.52	0.00
57.00	0.00	0	542.52	0.00
57.20	0.00	0	542.52	0.00
57.40	0.00	0	542.52	0.00
57.60	0.00	0	542.52	0.00
57.80	0.00	0	542.52	0.00
58.00	0.00	0	542.52	0.00
58.20	0.00	0	542.52	0.00
58.40	0.00	0	542.52	0.00
58.60	0.00	0	542.52	0.00
58.80	0.00	0	542.52	0.00
59.00	0.00	0	542.52	0.00
59.20	0.00	0	542.52	0.00
59.40	0.00	0	542.52	0.00
59.60	0.00	0	542.52	0.00
59.80	0.00	0	542.52	0.00
60.00	0.00	0	542.52	0.00
60.20	0.00	0	542.52	0.00
60.40	0.00	0	542.52	0.00
60.60	0.00	0	542.52	0.00
60.80	0.00	0	542.52	0.00
61.00	0.00	0	542.52	0.00
61.20	0.00	0	542.52	0.00
61.40	0.00	0	542.52	0.00
61.60	0.00	0	542.52	0.00
61.80	0.00	0	542.52	0.00
62.00	0.00	0	542.52	0.00
62.20	0.00	0	542.52	0.00

**Hydrograph for Pond PV-5: Pervious Pavers 5 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.52	0.00
62.60	0.00	0	542.52	0.00
62.80	0.00	0	542.52	0.00
63.00	0.00	0	542.52	0.00
63.20	0.00	0	542.52	0.00
63.40	0.00	0	542.52	0.00
63.60	0.00	0	542.52	0.00
63.80	0.00	0	542.52	0.00
64.00	0.00	0	542.52	0.00
64.20	0.00	0	542.52	0.00
64.40	0.00	0	542.52	0.00
64.60	0.00	0	542.52	0.00
64.80	0.00	0	542.52	0.00
65.00	0.00	0	542.52	0.00
65.20	0.00	0	542.52	0.00
65.40	0.00	0	542.52	0.00
65.60	0.00	0	542.52	0.00
65.80	0.00	0	542.52	0.00
66.00	0.00	0	542.52	0.00
66.20	0.00	0	542.52	0.00
66.40	0.00	0	542.52	0.00
66.60	0.00	0	542.52	0.00
66.80	0.00	0	542.52	0.00
67.00	0.00	0	542.52	0.00
67.20	0.00	0	542.52	0.00
67.40	0.00	0	542.52	0.00
67.60	0.00	0	542.52	0.00
67.80	0.00	0	542.52	0.00
68.00	0.00	0	542.52	0.00
68.20	0.00	0	542.52	0.00
68.40	0.00	0	542.52	0.00
68.60	0.00	0	542.52	0.00
68.80	0.00	0	542.52	0.00
69.00	0.00	0	542.52	0.00
69.20	0.00	0	542.52	0.00
69.40	0.00	0	542.52	0.00
69.60	0.00	0	542.52	0.00
69.80	0.00	0	542.52	0.00
70.00	0.00	0	542.52	0.00
70.20	0.00	0	542.52	0.00
70.40	0.00	0	542.52	0.00
70.60	0.00	0	542.52	0.00
70.80	0.00	0	542.52	0.00
71.00	0.00	0	542.52	0.00
71.20	0.00	0	542.52	0.00
71.40	0.00	0	542.52	0.00
71.60	0.00	0	542.52	0.00
71.80	0.00	0	542.52	0.00
72.00	0.00	0	542.52	0.00

**Stage-Area-Storage for Pond PV-5: Pervious Pavers 5**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.52	2,400	0	543.04	2,400	499
542.53	2,400	10	543.05	2,400	509
542.54	2,400	19	543.06	2,400	518
542.55	2,400	29	543.07	2,400	528
542.56	2,400	38	543.08	2,400	538
542.57	2,400	48	543.09	2,400	547
542.58	2,400	58	543.10	2,400	557
542.59	2,400	67	543.11	2,400	566
542.60	2,400	77	543.12	2,400	576
542.61	2,400	86	543.13	2,400	586
542.62	2,400	96	543.14	2,400	595
542.63	2,400	106	543.15	2,400	605
542.64	2,400	115	543.16	2,400	614
542.65	2,400	125	543.17	2,400	624
542.66	2,400	134	543.18	2,400	634
542.67	2,400	144	543.19	2,400	643
542.68	2,400	154	543.20	2,400	653
542.69	2,400	163	543.21	2,400	662
542.70	2,400	173	543.22	2,400	672
542.71	2,400	182	543.23	2,400	682
542.72	2,400	192	543.24	2,400	691
542.73	2,400	202	543.25	2,400	701
542.74	2,400	211	543.26	2,400	710
542.75	2,400	221	543.27	2,400	720
542.76	2,400	230	543.28	2,400	730
542.77	2,400	240	543.29	2,400	739
542.78	2,400	250	543.30	2,400	749
542.79	2,400	259	543.31	2,400	758
542.80	2,400	269	543.32	2,400	768
542.81	2,400	278	543.33	2,400	778
542.82	2,400	288	543.34	2,400	787
542.83	2,400	298	543.35	2,400	797
542.84	2,400	307	543.36	2,400	806
542.85	2,400	317	543.37	2,400	816
542.86	2,400	326	543.38	2,400	826
542.87	2,400	336	543.39	2,400	835
542.88	2,400	346	543.40	2,400	845
542.89	2,400	355	543.41	2,400	854
542.90	2,400	365	543.42	2,400	864
542.91	2,400	374	543.43	2,400	874
542.92	2,400	384	543.44	2,400	883
542.93	2,400	394	543.45	2,400	893
542.94	2,400	403	543.46	2,400	902
542.95	2,400	413	543.47	2,400	912
542.96	2,400	422	543.48	2,400	922
542.97	2,400	432	543.49	2,400	931
542.98	2,400	442	543.50	2,400	941
542.99	2,400	451	543.51	2,400	950
543.00	2,400	461	543.52	2,400	960
543.01	2,400	470	543.53	2,400	970
543.02	2,400	480	543.54	2,400	979
543.03	2,400	490	543.55	2,400	989

**Stage-Area-Storage for Pond PV-5: Pervious Pavers 5 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.56	2,400	998
543.57	2,400	1,008
543.58	2,400	1,018
543.59	2,400	1,027
543.60	2,400	1,037
543.61	2,400	1,046
543.62	2,400	1,056
543.63	2,400	1,066
543.64	2,400	1,075
543.65	2,400	1,085
543.66	2,400	1,094
543.67	2,400	1,104
543.68	2,400	1,114
543.69	2,400	1,123
543.70	2,400	1,133
543.71	2,400	1,142
543.72	2,400	1,152
543.73	2,400	1,162
543.74	2,400	1,171
543.75	2,400	1,181
543.76	2,400	1,190
543.77	2,400	1,200
543.78	2,400	1,210
543.79	2,400	1,219
543.80	2,400	1,229
543.81	2,400	1,238
543.82	2,400	1,248
543.83	2,400	<b>1,258</b>



### Summary for Pond PV-6: Pervious Pavers 6

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 5,929 sf, 60.38% Impervious, Inflow Depth = 7.40" for 100-Year event  
 Inflow = 0.99 cfs @ 12.14 hrs, Volume= 3,655 cf  
 Outflow = 0.47 cfs @ 12.27 hrs, Volume= 3,655 cf, Atten= 53%, Lag= 7.8 min  
 Primary = 0.47 cfs @ 12.27 hrs, Volume= 3,655 cf  
 Routed to Link P-1B : Pavers 1-6

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.41' @ 12.27 hrs Surf.Area= 1,488 sf Storage= 957 cf

Plug-Flow detention time= 69.2 min calculated for 3,655 cf (100% of inflow)  
 Center-of-Mass det. time= 69.3 min ( 832.0 - 762.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	541.80'	1,000 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 2,500 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
541.80	1,488	0	0
543.48	1,488	2,500	2,500

Device	Routing	Invert	Outlet Devices
#1	Primary	540.86'	<b>6.0" Round Culvert</b> L= 13.0' Ke= 0.500 Inlet / Outlet Invert= 540.86' / 540.79' S= 0.0054 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.79'	<b>3.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	542.57'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.47 cfs @ 12.27 hrs HW=543.41' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.47 cfs of 1.43 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.12 cfs @ 2.35 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.35 cfs @ 1.57 fps)

**Hydrograph for Pond PV-6: Pervious Pavers 6**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	541.80	0.00
0.20	0.00	0	541.80	0.00
0.40	0.00	0	541.80	0.00
0.60	0.00	0	541.80	0.00
0.80	0.00	1	541.80	0.00
1.00	0.00	2	541.80	0.00
1.20	0.00	4	541.81	0.00
1.40	0.00	7	541.81	0.00
1.60	0.00	10	541.82	0.00
1.80	0.01	13	541.82	0.00
2.00	0.01	16	541.83	0.00
2.20	0.01	20	541.83	0.00
2.40	0.01	23	541.84	0.00
2.60	0.01	26	541.84	0.00
2.80	0.01	30	541.85	0.00
3.00	0.01	33	541.86	0.00
3.20	0.01	36	541.86	0.00
3.40	0.01	39	541.87	0.00
3.60	0.01	41	541.87	0.01
3.80	0.01	44	541.87	0.01
4.00	0.01	46	541.88	0.01
4.20	0.01	49	541.88	0.01
4.40	0.01	51	541.89	0.01
4.60	0.01	53	541.89	0.01
4.80	0.01	55	541.89	0.01
5.00	0.01	57	541.90	0.01
5.20	0.01	59	541.90	0.01
5.40	0.01	60	541.90	0.01
5.60	0.01	62	541.90	0.01
5.80	0.01	64	541.91	0.01
6.00	0.01	65	541.91	0.01
6.20	0.01	67	541.91	0.01
6.40	0.01	69	541.92	0.01
6.60	0.02	71	541.92	0.01
6.80	0.02	74	541.92	0.01
7.00	0.02	76	541.93	0.01
7.20	0.02	79	541.93	0.01
7.40	0.02	81	541.94	0.02
7.60	0.02	84	541.94	0.02
7.80	0.02	87	541.95	0.02
8.00	0.02	90	541.95	0.02
8.20	0.02	93	541.96	0.02
8.40	0.02	96	541.96	0.02
8.60	0.03	100	541.97	0.02
8.80	0.03	103	541.97	0.02
9.00	0.03	106	541.98	0.02
9.20	0.03	110	541.98	0.02
9.40	0.03	114	541.99	0.03
9.60	0.04	120	542.00	0.03
9.80	0.04	127	542.01	0.03
10.00	0.04	135	542.03	0.03
10.20	0.05	144	542.04	0.03

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.05	154	542.06	0.04
10.60	0.06	166	542.08	0.04
10.80	0.07	182	542.11	0.04
11.00	0.08	204	542.14	0.05
11.20	0.10	233	542.19	0.05
11.40	0.12	274	542.26	0.06
11.60	0.16	329	542.35	0.06
11.80	0.23	418	542.50	0.07
12.00	<b>0.51</b>	584	542.78	0.17
12.20	<b>0.77</b>	<b>921</b>	<b>543.35</b>	<b>0.45</b>
12.40	0.27	<b>910</b>	<b>543.33</b>	<b>0.44</b>
12.60	0.18	777	543.11	0.36
12.80	0.13	660	542.91	0.26
13.00	0.11	593	542.80	0.18
13.20	0.09	552	542.73	0.14
13.40	0.08	523	542.68	0.11
13.60	0.07	500	542.64	0.10
13.80	0.06	479	542.60	0.08
14.00	0.06	462	542.58	0.08
14.20	0.05	446	542.55	0.08
14.40	0.05	428	542.52	0.07
14.60	0.04	409	542.49	0.07
14.80	0.04	389	542.45	0.07
15.00	0.04	368	542.42	0.07
15.20	0.03	347	542.38	0.06
15.40	0.03	326	542.35	0.06
15.60	0.03	306	542.31	0.06
15.80	0.03	286	542.28	0.06
16.00	0.03	268	542.25	0.05
16.20	0.03	251	542.22	0.05
16.40	0.03	235	542.20	0.05
16.60	0.03	220	542.17	0.05
16.80	0.03	206	542.15	0.05
17.00	0.03	193	542.12	0.04
17.20	0.02	181	542.10	0.04
17.40	0.02	169	542.08	0.04
17.60	0.02	158	542.07	0.04
17.80	0.02	149	542.05	0.03
18.00	0.02	139	542.03	0.03
18.20	0.02	131	542.02	0.03
18.40	0.02	123	542.01	0.03
18.60	0.02	117	542.00	0.03
18.80	0.02	112	541.99	0.03
19.00	0.02	108	541.98	0.02
19.20	0.02	104	541.98	0.02
19.40	0.02	101	541.97	0.02
19.60	0.02	99	541.97	0.02
19.80	0.02	97	541.96	0.02
20.00	0.02	95	541.96	0.02
20.20	0.02	93	541.96	0.02
20.40	0.02	92	541.95	0.02
20.60	0.02	90	541.95	0.02

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	89	541.95	0.02
21.00	0.02	88	541.95	0.02
21.20	0.02	87	541.95	0.02
21.40	0.02	86	541.94	0.02
21.60	0.02	85	541.94	0.02
21.80	0.02	84	541.94	0.02
22.00	0.01	83	541.94	0.02
22.20	0.01	82	541.94	0.02
22.40	0.01	81	541.94	0.02
22.60	0.01	80	541.94	0.02
22.80	0.01	80	541.93	0.02
23.00	0.01	79	541.93	0.01
23.20	0.01	78	541.93	0.01
23.40	0.01	77	541.93	0.01
23.60	0.01	76	541.93	0.01
23.80	0.01	75	541.93	0.01
24.00	0.01	75	541.93	0.01
24.20	0.00	70	541.92	0.01
24.40	0.00	62	541.90	0.01
24.60	0.00	56	541.89	0.01
24.80	0.00	50	541.88	0.01
25.00	0.00	45	541.88	0.01
25.20	0.00	41	541.87	0.01
25.40	0.00	38	541.86	0.00
25.60	0.00	35	541.86	0.00
25.80	0.00	32	541.85	0.00
26.00	0.00	30	541.85	0.00
26.20	0.00	28	541.85	0.00
26.40	0.00	26	541.84	0.00
26.60	0.00	24	541.84	0.00
26.80	0.00	23	541.84	0.00
27.00	0.00	21	541.84	0.00
27.20	0.00	20	541.83	0.00
27.40	0.00	19	541.83	0.00
27.60	0.00	18	541.83	0.00
27.80	0.00	17	541.83	0.00
28.00	0.00	16	541.83	0.00
28.20	0.00	15	541.83	0.00
28.40	0.00	15	541.82	0.00
28.60	0.00	14	541.82	0.00
28.80	0.00	13	541.82	0.00
29.00	0.00	13	541.82	0.00
29.20	0.00	12	541.82	0.00
29.40	0.00	11	541.82	0.00
29.60	0.00	11	541.82	0.00
29.80	0.00	10	541.82	0.00
30.00	0.00	10	541.82	0.00
30.20	0.00	9	541.82	0.00
30.40	0.00	9	541.82	0.00
30.60	0.00	9	541.81	0.00
30.80	0.00	8	541.81	0.00
31.00	0.00	8	541.81	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	8	541.81	0.00
31.40	0.00	7	541.81	0.00
31.60	0.00	7	541.81	0.00
31.80	0.00	7	541.81	0.00
32.00	0.00	6	541.81	0.00
32.20	0.00	6	541.81	0.00
32.40	0.00	6	541.81	0.00
32.60	0.00	6	541.81	0.00
32.80	0.00	5	541.81	0.00
33.00	0.00	5	541.81	0.00
33.20	0.00	5	541.81	0.00
33.40	0.00	5	541.81	0.00
33.60	0.00	5	541.81	0.00
33.80	0.00	4	541.81	0.00
34.00	0.00	4	541.81	0.00
34.20	0.00	4	541.81	0.00
34.40	0.00	4	541.81	0.00
34.60	0.00	4	541.81	0.00
34.80	0.00	3	541.81	0.00
35.00	0.00	3	541.81	0.00
35.20	0.00	3	541.81	0.00
35.40	0.00	3	541.81	0.00
35.60	0.00	3	541.80	0.00
35.80	0.00	3	541.80	0.00
36.00	0.00	3	541.80	0.00
36.20	0.00	2	541.80	0.00
36.40	0.00	2	541.80	0.00
36.60	0.00	2	541.80	0.00
36.80	0.00	2	541.80	0.00
37.00	0.00	2	541.80	0.00
37.20	0.00	2	541.80	0.00
37.40	0.00	2	541.80	0.00
37.60	0.00	2	541.80	0.00
37.80	0.00	2	541.80	0.00
38.00	0.00	1	541.80	0.00
38.20	0.00	1	541.80	0.00
38.40	0.00	1	541.80	0.00
38.60	0.00	1	541.80	0.00
38.80	0.00	1	541.80	0.00
39.00	0.00	1	541.80	0.00
39.20	0.00	1	541.80	0.00
39.40	0.00	1	541.80	0.00
39.60	0.00	1	541.80	0.00
39.80	0.00	1	541.80	0.00
40.00	0.00	1	541.80	0.00
40.20	0.00	0	541.80	0.00
40.40	0.00	0	541.80	0.00
40.60	0.00	0	541.80	0.00
40.80	0.00	0	541.80	0.00
41.00	0.00	0	541.80	0.00
41.20	0.00	0	541.80	0.00
41.40	0.00	0	541.80	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	0	541.80	0.00
41.80	0.00	0	541.80	0.00
42.00	0.00	0	541.80	0.00
42.20	0.00	0	541.80	0.00
42.40	0.00	0	541.80	0.00
42.60	0.00	0	541.80	0.00
42.80	0.00	0	541.80	0.00
43.00	0.00	0	541.80	0.00
43.20	0.00	0	541.80	0.00
43.40	0.00	0	541.80	0.00
43.60	0.00	0	541.80	0.00
43.80	0.00	0	541.80	0.00
44.00	0.00	0	541.80	0.00
44.20	0.00	0	541.80	0.00
44.40	0.00	0	541.80	0.00
44.60	0.00	0	541.80	0.00
44.80	0.00	0	541.80	0.00
45.00	0.00	0	541.80	0.00
45.20	0.00	0	541.80	0.00
45.40	0.00	0	541.80	0.00
45.60	0.00	0	541.80	0.00
45.80	0.00	0	541.80	0.00
46.00	0.00	0	541.80	0.00
46.20	0.00	0	541.80	0.00
46.40	0.00	0	541.80	0.00
46.60	0.00	0	541.80	0.00
46.80	0.00	0	541.80	0.00
47.00	0.00	0	541.80	0.00
47.20	0.00	0	541.80	0.00
47.40	0.00	0	541.80	0.00
47.60	0.00	0	541.80	0.00
47.80	0.00	0	541.80	0.00
48.00	0.00	0	541.80	0.00
48.20	0.00	0	541.80	0.00
48.40	0.00	0	541.80	0.00
48.60	0.00	0	541.80	0.00
48.80	0.00	0	541.80	0.00
49.00	0.00	0	541.80	0.00
49.20	0.00	0	541.80	0.00
49.40	0.00	0	541.80	0.00
49.60	0.00	0	541.80	0.00
49.80	0.00	0	541.80	0.00
50.00	0.00	0	541.80	0.00
50.20	0.00	0	541.80	0.00
50.40	0.00	0	541.80	0.00
50.60	0.00	0	541.80	0.00
50.80	0.00	0	541.80	0.00
51.00	0.00	0	541.80	0.00
51.20	0.00	0	541.80	0.00
51.40	0.00	0	541.80	0.00
51.60	0.00	0	541.80	0.00
51.80	0.00	0	541.80	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	541.80	0.00
52.20	0.00	0	541.80	0.00
52.40	0.00	0	541.80	0.00
52.60	0.00	0	541.80	0.00
52.80	0.00	0	541.80	0.00
53.00	0.00	0	541.80	0.00
53.20	0.00	0	541.80	0.00
53.40	0.00	0	541.80	0.00
53.60	0.00	0	541.80	0.00
53.80	0.00	0	541.80	0.00
54.00	0.00	0	541.80	0.00
54.20	0.00	0	541.80	0.00
54.40	0.00	0	541.80	0.00
54.60	0.00	0	541.80	0.00
54.80	0.00	0	541.80	0.00
55.00	0.00	0	541.80	0.00
55.20	0.00	0	541.80	0.00
55.40	0.00	0	541.80	0.00
55.60	0.00	0	541.80	0.00
55.80	0.00	0	541.80	0.00
56.00	0.00	0	541.80	0.00
56.20	0.00	0	541.80	0.00
56.40	0.00	0	541.80	0.00
56.60	0.00	0	541.80	0.00
56.80	0.00	0	541.80	0.00
57.00	0.00	0	541.80	0.00
57.20	0.00	0	541.80	0.00
57.40	0.00	0	541.80	0.00
57.60	0.00	0	541.80	0.00
57.80	0.00	0	541.80	0.00
58.00	0.00	0	541.80	0.00
58.20	0.00	0	541.80	0.00
58.40	0.00	0	541.80	0.00
58.60	0.00	0	541.80	0.00
58.80	0.00	0	541.80	0.00
59.00	0.00	0	541.80	0.00
59.20	0.00	0	541.80	0.00
59.40	0.00	0	541.80	0.00
59.60	0.00	0	541.80	0.00
59.80	0.00	0	541.80	0.00
60.00	0.00	0	541.80	0.00
60.20	0.00	0	541.80	0.00
60.40	0.00	0	541.80	0.00
60.60	0.00	0	541.80	0.00
60.80	0.00	0	541.80	0.00
61.00	0.00	0	541.80	0.00
61.20	0.00	0	541.80	0.00
61.40	0.00	0	541.80	0.00
61.60	0.00	0	541.80	0.00
61.80	0.00	0	541.80	0.00
62.00	0.00	0	541.80	0.00
62.20	0.00	0	541.80	0.00

**Hydrograph for Pond PV-6: Pervious Pavers 6 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	541.80	0.00
62.60	0.00	0	541.80	0.00
62.80	0.00	0	541.80	0.00
63.00	0.00	0	541.80	0.00
63.20	0.00	0	541.80	0.00
63.40	0.00	0	541.80	0.00
63.60	0.00	0	541.80	0.00
63.80	0.00	0	541.80	0.00
64.00	0.00	0	541.80	0.00
64.20	0.00	0	541.80	0.00
64.40	0.00	0	541.80	0.00
64.60	0.00	0	541.80	0.00
64.80	0.00	0	541.80	0.00
65.00	0.00	0	541.80	0.00
65.20	0.00	0	541.80	0.00
65.40	0.00	0	541.80	0.00
65.60	0.00	0	541.80	0.00
65.80	0.00	0	541.80	0.00
66.00	0.00	0	541.80	0.00
66.20	0.00	0	541.80	0.00
66.40	0.00	0	541.80	0.00
66.60	0.00	0	541.80	0.00
66.80	0.00	0	541.80	0.00
67.00	0.00	0	541.80	0.00
67.20	0.00	0	541.80	0.00
67.40	0.00	0	541.80	0.00
67.60	0.00	0	541.80	0.00
67.80	0.00	0	541.80	0.00
68.00	0.00	0	541.80	0.00
68.20	0.00	0	541.80	0.00
68.40	0.00	0	541.80	0.00
68.60	0.00	0	541.80	0.00
68.80	0.00	0	541.80	0.00
69.00	0.00	0	541.80	0.00
69.20	0.00	0	541.80	0.00
69.40	0.00	0	541.80	0.00
69.60	0.00	0	541.80	0.00
69.80	0.00	0	541.80	0.00
70.00	0.00	0	541.80	0.00
70.20	0.00	0	541.80	0.00
70.40	0.00	0	541.80	0.00
70.60	0.00	0	541.80	0.00
70.80	0.00	0	541.80	0.00
71.00	0.00	0	541.80	0.00
71.20	0.00	0	541.80	0.00
71.40	0.00	0	541.80	0.00
71.60	0.00	0	541.80	0.00
71.80	0.00	0	541.80	0.00
72.00	0.00	0	541.80	0.00



**Stage-Area-Storage for Pond PV-6: Pervious Pavers 6**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
541.80	1,488	0	542.32	1,488	310
541.81	1,488	6	542.33	1,488	315
541.82	1,488	12	542.34	1,488	321
541.83	1,488	18	542.35	1,488	327
541.84	1,488	24	542.36	1,488	333
541.85	1,488	30	542.37	1,488	339
541.86	1,488	36	542.38	1,488	345
541.87	1,488	42	542.39	1,488	351
541.88	1,488	48	542.40	1,488	357
541.89	1,488	54	542.41	1,488	363
541.90	1,488	60	542.42	1,488	369
541.91	1,488	65	542.43	1,488	375
541.92	1,488	71	542.44	1,488	381
541.93	1,488	77	542.45	1,488	387
541.94	1,488	83	542.46	1,488	393
541.95	1,488	89	542.47	1,488	399
541.96	1,488	95	542.48	1,488	405
541.97	1,488	101	542.49	1,488	411
541.98	1,488	107	542.50	1,488	417
541.99	1,488	113	542.51	1,488	423
542.00	1,488	119	542.52	1,488	429
542.01	1,488	125	542.53	1,488	434
542.02	1,488	131	542.54	1,488	440
542.03	1,488	137	542.55	1,488	446
542.04	1,488	143	542.56	1,488	452
542.05	1,488	149	542.57	1,488	458
542.06	1,488	155	542.58	1,488	464
542.07	1,488	161	542.59	1,488	470
542.08	1,488	167	542.60	1,488	476
542.09	1,488	173	542.61	1,488	482
542.10	1,488	179	542.62	1,488	488
542.11	1,488	185	542.63	1,488	494
542.12	1,488	190	542.64	1,488	500
542.13	1,488	196	542.65	1,488	506
542.14	1,488	202	542.66	1,488	512
542.15	1,488	208	542.67	1,488	518
542.16	1,488	214	542.68	1,488	524
542.17	1,488	220	542.69	1,488	530
542.18	1,488	226	542.70	1,488	536
542.19	1,488	232	542.71	1,488	542
542.20	1,488	238	542.72	1,488	548
542.21	1,488	244	542.73	1,488	554
542.22	1,488	250	542.74	1,488	559
542.23	1,488	256	542.75	1,488	565
542.24	1,488	262	542.76	1,488	571
542.25	1,488	268	542.77	1,488	577
542.26	1,488	274	542.78	1,488	583
542.27	1,488	280	542.79	1,488	589
542.28	1,488	286	542.80	1,488	595
542.29	1,488	292	542.81	1,488	601
542.30	1,488	298	542.82	1,488	607
542.31	1,488	304	542.83	1,488	613

**Stage-Area-Storage for Pond PV-6: Pervious Pavers 6 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.84	1,488	619	543.36	1,488	929
542.85	1,488	625	543.37	1,488	934
542.86	1,488	631	543.38	1,488	940
542.87	1,488	637	543.39	1,488	946
542.88	1,488	643	543.40	1,488	952
542.89	1,488	649	543.41	1,488	958
542.90	1,488	655	543.42	1,488	964
542.91	1,488	661	543.43	1,488	970
542.92	1,488	667	543.44	1,488	976
542.93	1,488	673	543.45	1,488	982
542.94	1,488	679	543.46	1,488	988
542.95	1,488	684	543.47	1,488	994
542.96	1,488	690	543.48	1,488	<b>1,000</b>
542.97	1,488	696			
542.98	1,488	702			
542.99	1,488	708			
543.00	1,488	714			
543.01	1,488	720			
543.02	1,488	726			
543.03	1,488	732			
543.04	1,488	738			
543.05	1,488	744			
543.06	1,488	750			
543.07	1,488	756			
543.08	1,488	762			
543.09	1,488	768			
543.10	1,488	774			
543.11	1,488	780			
543.12	1,488	786			
543.13	1,488	792			
543.14	1,488	798			
543.15	1,488	804			
543.16	1,488	809			
543.17	1,488	815			
543.18	1,488	821			
543.19	1,488	827			
543.20	1,488	833			
543.21	1,488	839			
543.22	1,488	845			
543.23	1,488	851			
543.24	1,488	857			
543.25	1,488	863			
543.26	1,488	869			
543.27	1,488	875			
543.28	1,488	881			
543.29	1,488	887			
543.30	1,488	893			
543.31	1,488	899			
543.32	1,488	905			
543.33	1,488	911			
543.34	1,488	917			
543.35	1,488	923			

**Summary for Link P-1B: Pavers 1-6**

Inflow Area = 38,620 sf, 46.51% Impervious, Inflow Depth = 7.17" for 100-Year event  
Inflow = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf  
Primary = 2.49 cfs @ 12.24 hrs, Volume= 23,066 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

**Hydrograph for Link P-1B: Pavers 1-6**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	5.20	0.04	0.00	0.04
0.10	0.00	0.00	0.00	5.30	0.04	0.00	0.04
0.20	0.00	0.00	0.00	5.40	0.04	0.00	0.04
0.30	0.00	0.00	0.00	5.50	0.04	0.00	0.04
0.40	0.00	0.00	0.00	5.60	0.04	0.00	0.04
0.50	0.00	0.00	0.00	5.70	0.04	0.00	0.04
0.60	0.00	0.00	0.00	5.80	0.04	0.00	0.04
0.70	0.00	0.00	0.00	5.90	0.05	0.00	0.05
0.80	0.00	0.00	0.00	6.00	0.05	0.00	0.05
0.90	0.00	0.00	0.00	6.10	0.05	0.00	0.05
1.00	0.00	0.00	0.00	6.20	0.05	0.00	0.05
1.10	0.00	0.00	0.00	6.30	0.05	0.00	0.05
1.20	0.00	0.00	0.00	6.40	0.05	0.00	0.05
1.30	0.00	0.00	0.00	6.50	0.06	0.00	0.06
1.40	0.00	0.00	0.00	6.60	0.06	0.00	0.06
1.50	0.00	0.00	0.00	6.70	0.06	0.00	0.06
1.60	0.00	0.00	0.00	6.80	0.06	0.00	0.06
1.70	0.00	0.00	0.00	6.90	0.06	0.00	0.06
1.80	0.00	0.00	0.00	7.00	0.07	0.00	0.07
1.90	0.00	0.00	0.00	7.10	0.07	0.00	0.07
2.00	0.00	0.00	0.00	7.20	0.07	0.00	0.07
2.10	0.00	0.00	0.00	7.30	0.07	0.00	0.07
2.20	0.01	0.00	0.01	7.40	0.08	0.00	0.08
2.30	0.01	0.00	0.01	7.50	0.08	0.00	0.08
2.40	0.01	0.00	0.01	7.60	0.08	0.00	0.08
2.50	0.01	0.00	0.01	7.70	0.08	0.00	0.08
2.60	0.01	0.00	0.01	7.80	0.09	0.00	0.09
2.70	0.01	0.00	0.01	7.90	0.09	0.00	0.09
2.80	0.01	0.00	0.01	8.00	0.09	0.00	0.09
2.90	0.01	0.00	0.01	8.10	0.09	0.00	0.09
3.00	0.01	0.00	0.01	8.20	0.10	0.00	0.10
3.10	0.01	0.00	0.01	8.30	0.10	0.00	0.10
3.20	0.01	0.00	0.01	8.40	0.10	0.00	0.10
3.30	0.01	0.00	0.01	8.50	0.11	0.00	0.11
3.40	0.02	0.00	0.02	8.60	0.11	0.00	0.11
3.50	0.02	0.00	0.02	8.70	0.11	0.00	0.11
3.60	0.02	0.00	0.02	8.80	0.12	0.00	0.12
3.70	0.02	0.00	0.02	8.90	0.12	0.00	0.12
3.80	0.02	0.00	0.02	9.00	0.12	0.00	0.12
3.90	0.02	0.00	0.02	9.10	0.13	0.00	0.13
4.00	0.02	0.00	0.02	9.20	0.13	0.00	0.13
4.10	0.02	0.00	0.02	9.30	0.13	0.00	0.13
4.20	0.02	0.00	0.02	9.40	0.14	0.00	0.14
4.30	0.02	0.00	0.02	9.50	0.14	0.00	0.14
4.40	0.03	0.00	0.03	9.60	0.15	0.00	0.15
4.50	0.03	0.00	0.03	9.70	0.15	0.00	0.15
4.60	0.03	0.00	0.03	9.80	0.16	0.00	0.16
4.70	0.03	0.00	0.03	9.90	0.16	0.00	0.16
4.80	0.03	0.00	0.03	10.00	0.17	0.00	0.17
4.90	0.03	0.00	0.03	10.10	0.17	0.00	0.17
5.00	0.03	0.00	0.03	10.20	0.18	0.00	0.18
5.10	0.03	0.00	0.03	10.30	0.19	0.00	0.19

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.19	0.00	0.19	15.60	0.34	0.00	0.34
10.50	0.20	0.00	0.20	15.70	0.33	0.00	0.33
10.60	0.20	0.00	0.20	15.80	0.33	0.00	0.33
10.70	0.21	0.00	0.21	15.90	0.32	0.00	0.32
10.80	0.22	0.00	0.22	16.00	0.32	0.00	0.32
10.90	0.23	0.00	0.23	16.10	0.31	0.00	0.31
11.00	0.24	0.00	0.24	16.20	0.31	0.00	0.31
11.10	0.25	0.00	0.25	16.30	0.31	0.00	0.31
11.20	0.27	0.00	0.27	16.40	0.30	0.00	0.30
11.30	0.28	0.00	0.28	16.50	0.30	0.00	0.30
11.40	0.29	0.00	0.29	16.60	0.29	0.00	0.29
11.50	0.31	0.00	0.31	16.70	0.29	0.00	0.29
11.60	0.33	0.00	0.33	16.80	0.28	0.00	0.28
11.70	0.35	0.00	0.35	16.90	0.28	0.00	0.28
11.80	0.43	0.00	0.43	17.00	0.28	0.00	0.28
11.90	0.67	0.00	0.67	17.10	0.27	0.00	0.27
12.00	1.27	0.00	1.27	17.20	0.27	0.00	0.27
12.10	2.10	0.00	2.10	17.30	0.26	0.00	0.26
12.20	<b>2.47</b>	0.00	<b>2.47</b>	17.40	0.26	0.00	0.26
12.30	<b>2.47</b>	0.00	<b>2.47</b>	17.50	0.25	0.00	0.25
12.40	2.36	0.00	2.36	17.60	0.25	0.00	0.25
12.50	2.22	0.00	2.22	17.70	0.25	0.00	0.25
12.60	2.06	0.00	2.06	17.80	0.24	0.00	0.24
12.70	1.88	0.00	1.88	17.90	0.24	0.00	0.24
12.80	1.68	0.00	1.68	18.00	0.23	0.00	0.23
12.90	1.50	0.00	1.50	18.10	0.23	0.00	0.23
13.00	1.33	0.00	1.33	18.20	0.22	0.00	0.22
13.10	1.17	0.00	1.17	18.30	0.22	0.00	0.22
13.20	1.03	0.00	1.03	18.40	0.22	0.00	0.22
13.30	0.92	0.00	0.92	18.50	0.21	0.00	0.21
13.40	0.83	0.00	0.83	18.60	0.21	0.00	0.21
13.50	0.76	0.00	0.76	18.70	0.21	0.00	0.21
13.60	0.69	0.00	0.69	18.80	0.20	0.00	0.20
13.70	0.64	0.00	0.64	18.90	0.20	0.00	0.20
13.80	0.59	0.00	0.59	19.00	0.20	0.00	0.20
13.90	0.56	0.00	0.56	19.10	0.19	0.00	0.19
14.00	0.53	0.00	0.53	19.20	0.19	0.00	0.19
14.10	0.50	0.00	0.50	19.30	0.19	0.00	0.19
14.20	0.48	0.00	0.48	19.40	0.18	0.00	0.18
14.30	0.46	0.00	0.46	19.50	0.18	0.00	0.18
14.40	0.45	0.00	0.45	19.60	0.18	0.00	0.18
14.50	0.43	0.00	0.43	19.70	0.18	0.00	0.18
14.60	0.42	0.00	0.42	19.80	0.17	0.00	0.17
14.70	0.41	0.00	0.41	19.90	0.17	0.00	0.17
14.80	0.40	0.00	0.40	20.00	0.17	0.00	0.17
14.90	0.39	0.00	0.39	20.10	0.17	0.00	0.17
15.00	0.38	0.00	0.38	20.20	0.17	0.00	0.17
15.10	0.37	0.00	0.37	20.30	0.16	0.00	0.16
15.20	0.36	0.00	0.36	20.40	0.16	0.00	0.16
15.30	0.35	0.00	0.35	20.50	0.16	0.00	0.16
15.40	0.35	0.00	0.35	20.60	0.16	0.00	0.16
15.50	0.34	0.00	0.34	20.70	0.16	0.00	0.16

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.15	0.00	0.15	26.00	0.04	0.00	0.04
20.90	0.15	0.00	0.15	26.10	0.03	0.00	0.03
21.00	0.15	0.00	0.15	26.20	0.03	0.00	0.03
21.10	0.15	0.00	0.15	26.30	0.03	0.00	0.03
21.20	0.15	0.00	0.15	26.40	0.03	0.00	0.03
21.30	0.15	0.00	0.15	26.50	0.03	0.00	0.03
21.40	0.14	0.00	0.14	26.60	0.03	0.00	0.03
21.50	0.14	0.00	0.14	26.70	0.03	0.00	0.03
21.60	0.14	0.00	0.14	26.80	0.02	0.00	0.02
21.70	0.14	0.00	0.14	26.90	0.02	0.00	0.02
21.80	0.14	0.00	0.14	27.00	0.02	0.00	0.02
21.90	0.14	0.00	0.14	27.10	0.02	0.00	0.02
22.00	0.13	0.00	0.13	27.20	0.02	0.00	0.02
22.10	0.13	0.00	0.13	27.30	0.02	0.00	0.02
22.20	0.13	0.00	0.13	27.40	0.02	0.00	0.02
22.30	0.13	0.00	0.13	27.50	0.02	0.00	0.02
22.40	0.13	0.00	0.13	27.60	0.02	0.00	0.02
22.50	0.13	0.00	0.13	27.70	0.02	0.00	0.02
22.60	0.12	0.00	0.12	27.80	0.02	0.00	0.02
22.70	0.12	0.00	0.12	27.90	0.02	0.00	0.02
22.80	0.12	0.00	0.12	28.00	0.02	0.00	0.02
22.90	0.12	0.00	0.12	28.10	0.02	0.00	0.02
23.00	0.12	0.00	0.12	28.20	0.01	0.00	0.01
23.10	0.12	0.00	0.12	28.30	0.01	0.00	0.01
23.20	0.12	0.00	0.12	28.40	0.01	0.00	0.01
23.30	0.11	0.00	0.11	28.50	0.01	0.00	0.01
23.40	0.11	0.00	0.11	28.60	0.01	0.00	0.01
23.50	0.11	0.00	0.11	28.70	0.01	0.00	0.01
23.60	0.11	0.00	0.11	28.80	0.01	0.00	0.01
23.70	0.11	0.00	0.11	28.90	0.01	0.00	0.01
23.80	0.11	0.00	0.11	29.00	0.01	0.00	0.01
23.90	0.11	0.00	0.11	29.10	0.01	0.00	0.01
24.00	0.10	0.00	0.10	29.20	0.01	0.00	0.01
24.10	0.10	0.00	0.10	29.30	0.01	0.00	0.01
24.20	0.10	0.00	0.10	29.40	0.01	0.00	0.01
24.30	0.09	0.00	0.09	29.50	0.01	0.00	0.01
24.40	0.08	0.00	0.08	29.60	0.01	0.00	0.01
24.50	0.08	0.00	0.08	29.70	0.01	0.00	0.01
24.60	0.07	0.00	0.07	29.80	0.01	0.00	0.01
24.70	0.07	0.00	0.07	29.90	0.01	0.00	0.01
24.80	0.07	0.00	0.07	30.00	0.01	0.00	0.01
24.90	0.06	0.00	0.06	30.10	0.01	0.00	0.01
25.00	0.06	0.00	0.06	30.20	0.01	0.00	0.01
25.10	0.06	0.00	0.06	30.30	0.01	0.00	0.01
25.20	0.05	0.00	0.05	30.40	0.01	0.00	0.01
25.30	0.05	0.00	0.05	30.50	0.01	0.00	0.01
25.40	0.05	0.00	0.05	30.60	0.01	0.00	0.01
25.50	0.05	0.00	0.05	30.70	0.01	0.00	0.01
25.60	0.04	0.00	0.04	30.80	0.01	0.00	0.01
25.70	0.04	0.00	0.04	30.90	0.01	0.00	0.01
25.80	0.04	0.00	0.04	31.00	0.01	0.00	0.01
25.90	0.04	0.00	0.04	31.10	0.01	0.00	0.01

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
31.20	0.01	0.00	0.01	36.40	0.00	0.00	0.00
31.30	0.01	0.00	0.01	36.50	0.00	0.00	0.00
31.40	0.01	0.00	0.01	36.60	0.00	0.00	0.00
31.50	0.01	0.00	0.01	36.70	0.00	0.00	0.00
31.60	0.01	0.00	0.01	36.80	0.00	0.00	0.00
31.70	0.01	0.00	0.01	36.90	0.00	0.00	0.00
31.80	0.01	0.00	0.01	37.00	0.00	0.00	0.00
31.90	0.01	0.00	0.01	37.10	0.00	0.00	0.00
32.00	0.01	0.00	0.01	37.20	0.00	0.00	0.00
32.10	0.01	0.00	0.01	37.30	0.00	0.00	0.00
32.20	0.01	0.00	0.01	37.40	0.00	0.00	0.00
32.30	0.01	0.00	0.01	37.50	0.00	0.00	0.00
32.40	0.01	0.00	0.01	37.60	0.00	0.00	0.00
32.50	0.00	0.00	0.00	37.70	0.00	0.00	0.00
32.60	0.00	0.00	0.00	37.80	0.00	0.00	0.00
32.70	0.00	0.00	0.00	37.90	0.00	0.00	0.00
32.80	0.00	0.00	0.00	38.00	0.00	0.00	0.00
32.90	0.00	0.00	0.00	38.10	0.00	0.00	0.00
33.00	0.00	0.00	0.00	38.20	0.00	0.00	0.00
33.10	0.00	0.00	0.00	38.30	0.00	0.00	0.00
33.20	0.00	0.00	0.00	38.40	0.00	0.00	0.00
33.30	0.00	0.00	0.00	38.50	0.00	0.00	0.00
33.40	0.00	0.00	0.00	38.60	0.00	0.00	0.00
33.50	0.00	0.00	0.00	38.70	0.00	0.00	0.00
33.60	0.00	0.00	0.00	38.80	0.00	0.00	0.00
33.70	0.00	0.00	0.00	38.90	0.00	0.00	0.00
33.80	0.00	0.00	0.00	39.00	0.00	0.00	0.00
33.90	0.00	0.00	0.00	39.10	0.00	0.00	0.00
34.00	0.00	0.00	0.00	39.20	0.00	0.00	0.00
34.10	0.00	0.00	0.00	39.30	0.00	0.00	0.00
34.20	0.00	0.00	0.00	39.40	0.00	0.00	0.00
34.30	0.00	0.00	0.00	39.50	0.00	0.00	0.00
34.40	0.00	0.00	0.00	39.60	0.00	0.00	0.00
34.50	0.00	0.00	0.00	39.70	0.00	0.00	0.00
34.60	0.00	0.00	0.00	39.80	0.00	0.00	0.00
34.70	0.00	0.00	0.00	39.90	0.00	0.00	0.00
34.80	0.00	0.00	0.00	40.00	0.00	0.00	0.00
34.90	0.00	0.00	0.00	40.10	0.00	0.00	0.00
35.00	0.00	0.00	0.00	40.20	0.00	0.00	0.00
35.10	0.00	0.00	0.00	40.30	0.00	0.00	0.00
35.20	0.00	0.00	0.00	40.40	0.00	0.00	0.00
35.30	0.00	0.00	0.00	40.50	0.00	0.00	0.00
35.40	0.00	0.00	0.00	40.60	0.00	0.00	0.00
35.50	0.00	0.00	0.00	40.70	0.00	0.00	0.00
35.60	0.00	0.00	0.00	40.80	0.00	0.00	0.00
35.70	0.00	0.00	0.00	40.90	0.00	0.00	0.00
35.80	0.00	0.00	0.00	41.00	0.00	0.00	0.00
35.90	0.00	0.00	0.00	41.10	0.00	0.00	0.00
36.00	0.00	0.00	0.00	41.20	0.00	0.00	0.00
36.10	0.00	0.00	0.00	41.30	0.00	0.00	0.00
36.20	0.00	0.00	0.00	41.40	0.00	0.00	0.00
36.30	0.00	0.00	0.00	41.50	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
41.60	0.00	0.00	0.00	46.80	0.00	0.00	0.00
41.70	0.00	0.00	0.00	46.90	0.00	0.00	0.00
41.80	0.00	0.00	0.00	47.00	0.00	0.00	0.00
41.90	0.00	0.00	0.00	47.10	0.00	0.00	0.00
42.00	0.00	0.00	0.00	47.20	0.00	0.00	0.00
42.10	0.00	0.00	0.00	47.30	0.00	0.00	0.00
42.20	0.00	0.00	0.00	47.40	0.00	0.00	0.00
42.30	0.00	0.00	0.00	47.50	0.00	0.00	0.00
42.40	0.00	0.00	0.00	47.60	0.00	0.00	0.00
42.50	0.00	0.00	0.00	47.70	0.00	0.00	0.00
42.60	0.00	0.00	0.00	47.80	0.00	0.00	0.00
42.70	0.00	0.00	0.00	47.90	0.00	0.00	0.00
42.80	0.00	0.00	0.00	48.00	0.00	0.00	0.00
42.90	0.00	0.00	0.00	48.10	0.00	0.00	0.00
43.00	0.00	0.00	0.00	48.20	0.00	0.00	0.00
43.10	0.00	0.00	0.00	48.30	0.00	0.00	0.00
43.20	0.00	0.00	0.00	48.40	0.00	0.00	0.00
43.30	0.00	0.00	0.00	48.50	0.00	0.00	0.00
43.40	0.00	0.00	0.00	48.60	0.00	0.00	0.00
43.50	0.00	0.00	0.00	48.70	0.00	0.00	0.00
43.60	0.00	0.00	0.00	48.80	0.00	0.00	0.00
43.70	0.00	0.00	0.00	48.90	0.00	0.00	0.00
43.80	0.00	0.00	0.00	49.00	0.00	0.00	0.00
43.90	0.00	0.00	0.00	49.10	0.00	0.00	0.00
44.00	0.00	0.00	0.00	49.20	0.00	0.00	0.00
44.10	0.00	0.00	0.00	49.30	0.00	0.00	0.00
44.20	0.00	0.00	0.00	49.40	0.00	0.00	0.00
44.30	0.00	0.00	0.00	49.50	0.00	0.00	0.00
44.40	0.00	0.00	0.00	49.60	0.00	0.00	0.00
44.50	0.00	0.00	0.00	49.70	0.00	0.00	0.00
44.60	0.00	0.00	0.00	49.80	0.00	0.00	0.00
44.70	0.00	0.00	0.00	49.90	0.00	0.00	0.00
44.80	0.00	0.00	0.00	50.00	0.00	0.00	0.00
44.90	0.00	0.00	0.00	50.10	0.00	0.00	0.00
45.00	0.00	0.00	0.00	50.20	0.00	0.00	0.00
45.10	0.00	0.00	0.00	50.30	0.00	0.00	0.00
45.20	0.00	0.00	0.00	50.40	0.00	0.00	0.00
45.30	0.00	0.00	0.00	50.50	0.00	0.00	0.00
45.40	0.00	0.00	0.00	50.60	0.00	0.00	0.00
45.50	0.00	0.00	0.00	50.70	0.00	0.00	0.00
45.60	0.00	0.00	0.00	50.80	0.00	0.00	0.00
45.70	0.00	0.00	0.00	50.90	0.00	0.00	0.00
45.80	0.00	0.00	0.00	51.00	0.00	0.00	0.00
45.90	0.00	0.00	0.00	51.10	0.00	0.00	0.00
46.00	0.00	0.00	0.00	51.20	0.00	0.00	0.00
46.10	0.00	0.00	0.00	51.30	0.00	0.00	0.00
46.20	0.00	0.00	0.00	51.40	0.00	0.00	0.00
46.30	0.00	0.00	0.00	51.50	0.00	0.00	0.00
46.40	0.00	0.00	0.00	51.60	0.00	0.00	0.00
46.50	0.00	0.00	0.00	51.70	0.00	0.00	0.00
46.60	0.00	0.00	0.00	51.80	0.00	0.00	0.00
46.70	0.00	0.00	0.00	51.90	0.00	0.00	0.00



**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
52.00	0.00	0.00	0.00	57.20	0.00	0.00	0.00
52.10	0.00	0.00	0.00	57.30	0.00	0.00	0.00
52.20	0.00	0.00	0.00	57.40	0.00	0.00	0.00
52.30	0.00	0.00	0.00	57.50	0.00	0.00	0.00
52.40	0.00	0.00	0.00	57.60	0.00	0.00	0.00
52.50	0.00	0.00	0.00	57.70	0.00	0.00	0.00
52.60	0.00	0.00	0.00	57.80	0.00	0.00	0.00
52.70	0.00	0.00	0.00	57.90	0.00	0.00	0.00
52.80	0.00	0.00	0.00	58.00	0.00	0.00	0.00
52.90	0.00	0.00	0.00	58.10	0.00	0.00	0.00
53.00	0.00	0.00	0.00	58.20	0.00	0.00	0.00
53.10	0.00	0.00	0.00	58.30	0.00	0.00	0.00
53.20	0.00	0.00	0.00	58.40	0.00	0.00	0.00
53.30	0.00	0.00	0.00	58.50	0.00	0.00	0.00
53.40	0.00	0.00	0.00	58.60	0.00	0.00	0.00
53.50	0.00	0.00	0.00	58.70	0.00	0.00	0.00
53.60	0.00	0.00	0.00	58.80	0.00	0.00	0.00
53.70	0.00	0.00	0.00	58.90	0.00	0.00	0.00
53.80	0.00	0.00	0.00	59.00	0.00	0.00	0.00
53.90	0.00	0.00	0.00	59.10	0.00	0.00	0.00
54.00	0.00	0.00	0.00	59.20	0.00	0.00	0.00
54.10	0.00	0.00	0.00	59.30	0.00	0.00	0.00
54.20	0.00	0.00	0.00	59.40	0.00	0.00	0.00
54.30	0.00	0.00	0.00	59.50	0.00	0.00	0.00
54.40	0.00	0.00	0.00	59.60	0.00	0.00	0.00
54.50	0.00	0.00	0.00	59.70	0.00	0.00	0.00
54.60	0.00	0.00	0.00	59.80	0.00	0.00	0.00
54.70	0.00	0.00	0.00	59.90	0.00	0.00	0.00
54.80	0.00	0.00	0.00	60.00	0.00	0.00	0.00
54.90	0.00	0.00	0.00	60.10	0.00	0.00	0.00
55.00	0.00	0.00	0.00	60.20	0.00	0.00	0.00
55.10	0.00	0.00	0.00	60.30	0.00	0.00	0.00
55.20	0.00	0.00	0.00	60.40	0.00	0.00	0.00
55.30	0.00	0.00	0.00	60.50	0.00	0.00	0.00
55.40	0.00	0.00	0.00	60.60	0.00	0.00	0.00
55.50	0.00	0.00	0.00	60.70	0.00	0.00	0.00
55.60	0.00	0.00	0.00	60.80	0.00	0.00	0.00
55.70	0.00	0.00	0.00	60.90	0.00	0.00	0.00
55.80	0.00	0.00	0.00	61.00	0.00	0.00	0.00
55.90	0.00	0.00	0.00	61.10	0.00	0.00	0.00
56.00	0.00	0.00	0.00	61.20	0.00	0.00	0.00
56.10	0.00	0.00	0.00	61.30	0.00	0.00	0.00
56.20	0.00	0.00	0.00	61.40	0.00	0.00	0.00
56.30	0.00	0.00	0.00	61.50	0.00	0.00	0.00
56.40	0.00	0.00	0.00	61.60	0.00	0.00	0.00
56.50	0.00	0.00	0.00	61.70	0.00	0.00	0.00
56.60	0.00	0.00	0.00	61.80	0.00	0.00	0.00
56.70	0.00	0.00	0.00	61.90	0.00	0.00	0.00
56.80	0.00	0.00	0.00	62.00	0.00	0.00	0.00
56.90	0.00	0.00	0.00	62.10	0.00	0.00	0.00
57.00	0.00	0.00	0.00	62.20	0.00	0.00	0.00
57.10	0.00	0.00	0.00	62.30	0.00	0.00	0.00

**Hydrograph for Link P-1B: Pavers 1-6 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
62.40	0.00	0.00	0.00	67.60	0.00	0.00	0.00
62.50	0.00	0.00	0.00	67.70	0.00	0.00	0.00
62.60	0.00	0.00	0.00	67.80	0.00	0.00	0.00
62.70	0.00	0.00	0.00	67.90	0.00	0.00	0.00
62.80	0.00	0.00	0.00	68.00	0.00	0.00	0.00
62.90	0.00	0.00	0.00	68.10	0.00	0.00	0.00
63.00	0.00	0.00	0.00	68.20	0.00	0.00	0.00
63.10	0.00	0.00	0.00	68.30	0.00	0.00	0.00
63.20	0.00	0.00	0.00	68.40	0.00	0.00	0.00
63.30	0.00	0.00	0.00	68.50	0.00	0.00	0.00
63.40	0.00	0.00	0.00	68.60	0.00	0.00	0.00
63.50	0.00	0.00	0.00	68.70	0.00	0.00	0.00
63.60	0.00	0.00	0.00	68.80	0.00	0.00	0.00
63.70	0.00	0.00	0.00	68.90	0.00	0.00	0.00
63.80	0.00	0.00	0.00	69.00	0.00	0.00	0.00
63.90	0.00	0.00	0.00	69.10	0.00	0.00	0.00
64.00	0.00	0.00	0.00	69.20	0.00	0.00	0.00
64.10	0.00	0.00	0.00	69.30	0.00	0.00	0.00
64.20	0.00	0.00	0.00	69.40	0.00	0.00	0.00
64.30	0.00	0.00	0.00	69.50	0.00	0.00	0.00
64.40	0.00	0.00	0.00	69.60	0.00	0.00	0.00
64.50	0.00	0.00	0.00	69.70	0.00	0.00	0.00
64.60	0.00	0.00	0.00	69.80	0.00	0.00	0.00
64.70	0.00	0.00	0.00	69.90	0.00	0.00	0.00
64.80	0.00	0.00	0.00	70.00	0.00	0.00	0.00
64.90	0.00	0.00	0.00	70.10	0.00	0.00	0.00
65.00	0.00	0.00	0.00	70.20	0.00	0.00	0.00
65.10	0.00	0.00	0.00	70.30	0.00	0.00	0.00
65.20	0.00	0.00	0.00	70.40	0.00	0.00	0.00
65.30	0.00	0.00	0.00	70.50	0.00	0.00	0.00
65.40	0.00	0.00	0.00	70.60	0.00	0.00	0.00
65.50	0.00	0.00	0.00	70.70	0.00	0.00	0.00
65.60	0.00	0.00	0.00	70.80	0.00	0.00	0.00
65.70	0.00	0.00	0.00	70.90	0.00	0.00	0.00
65.80	0.00	0.00	0.00	71.00	0.00	0.00	0.00
65.90	0.00	0.00	0.00	71.10	0.00	0.00	0.00
66.00	0.00	0.00	0.00	71.20	0.00	0.00	0.00
66.10	0.00	0.00	0.00	71.30	0.00	0.00	0.00
66.20	0.00	0.00	0.00	71.40	0.00	0.00	0.00
66.30	0.00	0.00	0.00	71.50	0.00	0.00	0.00
66.40	0.00	0.00	0.00	71.60	0.00	0.00	0.00
66.50	0.00	0.00	0.00	71.70	0.00	0.00	0.00
66.60	0.00	0.00	0.00	71.80	0.00	0.00	0.00
66.70	0.00	0.00	0.00	71.90	0.00	0.00	0.00
66.80	0.00	0.00	0.00	72.00	0.00	0.00	0.00
66.90	0.00	0.00	0.00				
67.00	0.00	0.00	0.00				
67.10	0.00	0.00	0.00				
67.20	0.00	0.00	0.00				
67.30	0.00	0.00	0.00				
67.40	0.00	0.00	0.00				
67.50	0.00	0.00	0.00				

**Summary for Subcatchment P-1C-10: Area 10**

Runoff = 0.41 cfs @ 1.11 hrs, Volume= 516 cf, Depth= 0.56"  
 Routed to Pond PV-10 : Pervious Pavers 10

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	716	98	Impervious
*	3,912	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	880	74	>75% Grass cover, Good, HSG C
	1,999	80	>75% Grass cover, Good, HSG D
	11,071	89	Weighted Average
	6,443	82	58.20% Pervious Area
	4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		<b>Sheet Flow, 10c1-10c2</b> Grass: Short n= 0.150 P2= 3.54"

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

Prepared by Stonefield Engineering &amp; Design

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**Hydrograph for Subcatchment P-1C-10: Area 10**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.02
0.80	0.23	0.00	0.09	0.03
1.00	0.63	0.01	0.43	<b>0.23</b>
1.20	1.02	0.12	0.81	<b>0.22</b>
1.40	1.11	0.16	0.90	0.07
1.60	1.18	0.19	0.97	0.05
1.80	1.23	0.21	1.02	0.04
2.00	<b>1.25</b>	<b>0.22</b>	<b>1.03</b>	0.02
2.20	1.25	0.22	1.03	0.00
2.40	1.25	0.22	1.03	0.00
2.60	1.25	0.22	1.03	0.00
2.80	1.25	0.22	1.03	0.00
3.00	1.25	0.22	1.03	0.00
3.20	1.25	0.22	1.03	0.00
3.40	1.25	0.22	1.03	0.00
3.60	1.25	0.22	1.03	0.00
3.80	1.25	0.22	1.03	0.00
4.00	1.25	0.22	1.03	0.00
4.20	1.25	0.22	1.03	0.00
4.40	1.25	0.22	1.03	0.00
4.60	1.25	0.22	1.03	0.00
4.80	1.25	0.22	1.03	0.00
5.00	1.25	0.22	1.03	0.00
5.20	1.25	0.22	1.03	0.00
5.40	1.25	0.22	1.03	0.00
5.60	1.25	0.22	1.03	0.00
5.80	1.25	0.22	1.03	0.00
6.00	1.25	0.22	1.03	0.00
6.20	1.25	0.22	1.03	0.00
6.40	1.25	0.22	1.03	0.00
6.60	1.25	0.22	1.03	0.00
6.80	1.25	0.22	1.03	0.00
7.00	1.25	0.22	1.03	0.00
7.20	1.25	0.22	1.03	0.00
7.40	1.25	0.22	1.03	0.00
7.60	1.25	0.22	1.03	0.00
7.80	1.25	0.22	1.03	0.00
8.00	1.25	0.22	1.03	0.00
8.20	1.25	0.22	1.03	0.00
8.40	1.25	0.22	1.03	0.00
8.60	1.25	0.22	1.03	0.00
8.80	1.25	0.22	1.03	0.00
9.00	1.25	0.22	1.03	0.00
9.20	1.25	0.22	1.03	0.00
9.40	1.25	0.22	1.03	0.00
9.60	1.25	0.22	1.03	0.00
9.80	1.25	0.22	1.03	0.00
10.00	1.25	0.22	1.03	0.00
10.20	1.25	0.22	1.03	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.22	1.03	0.00
10.60	1.25	0.22	1.03	0.00
10.80	1.25	0.22	1.03	0.00
11.00	1.25	0.22	1.03	0.00
11.20	1.25	0.22	1.03	0.00
11.40	1.25	0.22	1.03	0.00
11.60	1.25	0.22	1.03	0.00
11.80	1.25	0.22	1.03	0.00
12.00	1.25	0.22	1.03	0.00
12.20	1.25	0.22	1.03	0.00
12.40	1.25	0.22	1.03	0.00
12.60	1.25	0.22	1.03	0.00
12.80	1.25	0.22	1.03	0.00
13.00	1.25	0.22	1.03	0.00
13.20	1.25	0.22	1.03	0.00
13.40	1.25	0.22	1.03	0.00
13.60	1.25	0.22	1.03	0.00
13.80	1.25	0.22	1.03	0.00
14.00	1.25	0.22	1.03	0.00
14.20	1.25	0.22	1.03	0.00
14.40	1.25	0.22	1.03	0.00
14.60	1.25	0.22	1.03	0.00
14.80	1.25	0.22	1.03	0.00
15.00	1.25	0.22	1.03	0.00
15.20	1.25	0.22	1.03	0.00
15.40	1.25	0.22	1.03	0.00
15.60	1.25	0.22	1.03	0.00
15.80	1.25	0.22	1.03	0.00
16.00	1.25	0.22	1.03	0.00
16.20	1.25	0.22	1.03	0.00
16.40	1.25	0.22	1.03	0.00
16.60	1.25	0.22	1.03	0.00
16.80	1.25	0.22	1.03	0.00
17.00	1.25	0.22	1.03	0.00
17.20	1.25	0.22	1.03	0.00
17.40	1.25	0.22	1.03	0.00
17.60	1.25	0.22	1.03	0.00
17.80	1.25	0.22	1.03	0.00
18.00	1.25	0.22	1.03	0.00
18.20	1.25	0.22	1.03	0.00
18.40	1.25	0.22	1.03	0.00
18.60	1.25	0.22	1.03	0.00
18.80	1.25	0.22	1.03	0.00
19.00	1.25	0.22	1.03	0.00
19.20	1.25	0.22	1.03	0.00
19.40	1.25	0.22	1.03	0.00
19.60	1.25	0.22	1.03	0.00
19.80	1.25	0.22	1.03	0.00
20.00	1.25	0.22	1.03	0.00
20.20	1.25	0.22	1.03	0.00
20.40	1.25	0.22	1.03	0.00
20.60	1.25	0.22	1.03	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.22	1.03	0.00
21.00	1.25	0.22	1.03	0.00
21.20	1.25	0.22	1.03	0.00
21.40	1.25	0.22	1.03	0.00
21.60	1.25	0.22	1.03	0.00
21.80	1.25	0.22	1.03	0.00
22.00	1.25	0.22	1.03	0.00
22.20	1.25	0.22	1.03	0.00
22.40	1.25	0.22	1.03	0.00
22.60	1.25	0.22	1.03	0.00
22.80	1.25	0.22	1.03	0.00
23.00	1.25	0.22	1.03	0.00
23.20	1.25	0.22	1.03	0.00
23.40	1.25	0.22	1.03	0.00
23.60	1.25	0.22	1.03	0.00
23.80	1.25	0.22	1.03	0.00
24.00	1.25	0.22	1.03	0.00
24.20	1.25	0.22	1.03	0.00
24.40	1.25	0.22	1.03	0.00
24.60	1.25	0.22	1.03	0.00
24.80	1.25	0.22	1.03	0.00
25.00	1.25	0.22	1.03	0.00
25.20	1.25	0.22	1.03	0.00
25.40	1.25	0.22	1.03	0.00
25.60	1.25	0.22	1.03	0.00
25.80	1.25	0.22	1.03	0.00
26.00	1.25	0.22	1.03	0.00
26.20	1.25	0.22	1.03	0.00
26.40	1.25	0.22	1.03	0.00
26.60	1.25	0.22	1.03	0.00
26.80	1.25	0.22	1.03	0.00
27.00	1.25	0.22	1.03	0.00
27.20	1.25	0.22	1.03	0.00
27.40	1.25	0.22	1.03	0.00
27.60	1.25	0.22	1.03	0.00
27.80	1.25	0.22	1.03	0.00
28.00	1.25	0.22	1.03	0.00
28.20	1.25	0.22	1.03	0.00
28.40	1.25	0.22	1.03	0.00
28.60	1.25	0.22	1.03	0.00
28.80	1.25	0.22	1.03	0.00
29.00	1.25	0.22	1.03	0.00
29.20	1.25	0.22	1.03	0.00
29.40	1.25	0.22	1.03	0.00
29.60	1.25	0.22	1.03	0.00
29.80	1.25	0.22	1.03	0.00
30.00	1.25	0.22	1.03	0.00
30.20	1.25	0.22	1.03	0.00
30.40	1.25	0.22	1.03	0.00
30.60	1.25	0.22	1.03	0.00
30.80	1.25	0.22	1.03	0.00
31.00	1.25	0.22	1.03	0.00

Hydrograph for Subcatchment P-1C-10: Area 10 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.22	1.03	0.00
31.40	1.25	0.22	1.03	0.00
31.60	1.25	0.22	1.03	0.00
31.80	1.25	0.22	1.03	0.00
32.00	1.25	0.22	1.03	0.00
32.20	1.25	0.22	1.03	0.00
32.40	1.25	0.22	1.03	0.00
32.60	1.25	0.22	1.03	0.00
32.80	1.25	0.22	1.03	0.00
33.00	1.25	0.22	1.03	0.00
33.20	1.25	0.22	1.03	0.00
33.40	1.25	0.22	1.03	0.00
33.60	1.25	0.22	1.03	0.00
33.80	1.25	0.22	1.03	0.00
34.00	1.25	0.22	1.03	0.00
34.20	1.25	0.22	1.03	0.00
34.40	1.25	0.22	1.03	0.00
34.60	1.25	0.22	1.03	0.00
34.80	1.25	0.22	1.03	0.00
35.00	1.25	0.22	1.03	0.00
35.20	1.25	0.22	1.03	0.00
35.40	1.25	0.22	1.03	0.00
35.60	1.25	0.22	1.03	0.00
35.80	1.25	0.22	1.03	0.00
36.00	1.25	0.22	1.03	0.00
36.20	1.25	0.22	1.03	0.00
36.40	1.25	0.22	1.03	0.00
36.60	1.25	0.22	1.03	0.00
36.80	1.25	0.22	1.03	0.00
37.00	1.25	0.22	1.03	0.00
37.20	1.25	0.22	1.03	0.00
37.40	1.25	0.22	1.03	0.00
37.60	1.25	0.22	1.03	0.00
37.80	1.25	0.22	1.03	0.00
38.00	1.25	0.22	1.03	0.00
38.20	1.25	0.22	1.03	0.00
38.40	1.25	0.22	1.03	0.00
38.60	1.25	0.22	1.03	0.00
38.80	1.25	0.22	1.03	0.00
39.00	1.25	0.22	1.03	0.00
39.20	1.25	0.22	1.03	0.00
39.40	1.25	0.22	1.03	0.00
39.60	1.25	0.22	1.03	0.00
39.80	1.25	0.22	1.03	0.00
40.00	1.25	0.22	1.03	0.00
40.20	1.25	0.22	1.03	0.00
40.40	1.25	0.22	1.03	0.00
40.60	1.25	0.22	1.03	0.00
40.80	1.25	0.22	1.03	0.00
41.00	1.25	0.22	1.03	0.00
41.20	1.25	0.22	1.03	0.00
41.40	1.25	0.22	1.03	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.22	1.03	0.00
41.80	1.25	0.22	1.03	0.00
42.00	1.25	0.22	1.03	0.00
42.20	1.25	0.22	1.03	0.00
42.40	1.25	0.22	1.03	0.00
42.60	1.25	0.22	1.03	0.00
42.80	1.25	0.22	1.03	0.00
43.00	1.25	0.22	1.03	0.00
43.20	1.25	0.22	1.03	0.00
43.40	1.25	0.22	1.03	0.00
43.60	1.25	0.22	1.03	0.00
43.80	1.25	0.22	1.03	0.00
44.00	1.25	0.22	1.03	0.00
44.20	1.25	0.22	1.03	0.00
44.40	1.25	0.22	1.03	0.00
44.60	1.25	0.22	1.03	0.00
44.80	1.25	0.22	1.03	0.00
45.00	1.25	0.22	1.03	0.00
45.20	1.25	0.22	1.03	0.00
45.40	1.25	0.22	1.03	0.00
45.60	1.25	0.22	1.03	0.00
45.80	1.25	0.22	1.03	0.00
46.00	1.25	0.22	1.03	0.00
46.20	1.25	0.22	1.03	0.00
46.40	1.25	0.22	1.03	0.00
46.60	1.25	0.22	1.03	0.00
46.80	1.25	0.22	1.03	0.00
47.00	1.25	0.22	1.03	0.00
47.20	1.25	0.22	1.03	0.00
47.40	1.25	0.22	1.03	0.00
47.60	1.25	0.22	1.03	0.00
47.80	1.25	0.22	1.03	0.00
48.00	1.25	0.22	1.03	0.00
48.20	1.25	0.22	1.03	0.00
48.40	1.25	0.22	1.03	0.00
48.60	1.25	0.22	1.03	0.00
48.80	1.25	0.22	1.03	0.00
49.00	1.25	0.22	1.03	0.00
49.20	1.25	0.22	1.03	0.00
49.40	1.25	0.22	1.03	0.00
49.60	1.25	0.22	1.03	0.00
49.80	1.25	0.22	1.03	0.00
50.00	1.25	0.22	1.03	0.00
50.20	1.25	0.22	1.03	0.00
50.40	1.25	0.22	1.03	0.00
50.60	1.25	0.22	1.03	0.00
50.80	1.25	0.22	1.03	0.00
51.00	1.25	0.22	1.03	0.00
51.20	1.25	0.22	1.03	0.00
51.40	1.25	0.22	1.03	0.00
51.60	1.25	0.22	1.03	0.00
51.80	1.25	0.22	1.03	0.00



**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.22	1.03	0.00
52.20	1.25	0.22	1.03	0.00
52.40	1.25	0.22	1.03	0.00
52.60	1.25	0.22	1.03	0.00
52.80	1.25	0.22	1.03	0.00
53.00	1.25	0.22	1.03	0.00
53.20	1.25	0.22	1.03	0.00
53.40	1.25	0.22	1.03	0.00
53.60	1.25	0.22	1.03	0.00
53.80	1.25	0.22	1.03	0.00
54.00	1.25	0.22	1.03	0.00
54.20	1.25	0.22	1.03	0.00
54.40	1.25	0.22	1.03	0.00
54.60	1.25	0.22	1.03	0.00
54.80	1.25	0.22	1.03	0.00
55.00	1.25	0.22	1.03	0.00
55.20	1.25	0.22	1.03	0.00
55.40	1.25	0.22	1.03	0.00
55.60	1.25	0.22	1.03	0.00
55.80	1.25	0.22	1.03	0.00
56.00	1.25	0.22	1.03	0.00
56.20	1.25	0.22	1.03	0.00
56.40	1.25	0.22	1.03	0.00
56.60	1.25	0.22	1.03	0.00
56.80	1.25	0.22	1.03	0.00
57.00	1.25	0.22	1.03	0.00
57.20	1.25	0.22	1.03	0.00
57.40	1.25	0.22	1.03	0.00
57.60	1.25	0.22	1.03	0.00
57.80	1.25	0.22	1.03	0.00
58.00	1.25	0.22	1.03	0.00
58.20	1.25	0.22	1.03	0.00
58.40	1.25	0.22	1.03	0.00
58.60	1.25	0.22	1.03	0.00
58.80	1.25	0.22	1.03	0.00
59.00	1.25	0.22	1.03	0.00
59.20	1.25	0.22	1.03	0.00
59.40	1.25	0.22	1.03	0.00
59.60	1.25	0.22	1.03	0.00
59.80	1.25	0.22	1.03	0.00
60.00	1.25	0.22	1.03	0.00
60.20	1.25	0.22	1.03	0.00
60.40	1.25	0.22	1.03	0.00
60.60	1.25	0.22	1.03	0.00
60.80	1.25	0.22	1.03	0.00
61.00	1.25	0.22	1.03	0.00
61.20	1.25	0.22	1.03	0.00
61.40	1.25	0.22	1.03	0.00
61.60	1.25	0.22	1.03	0.00
61.80	1.25	0.22	1.03	0.00
62.00	1.25	0.22	1.03	0.00
62.20	1.25	0.22	1.03	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.22	1.03	0.00
62.60	1.25	0.22	1.03	0.00
62.80	1.25	0.22	1.03	0.00
63.00	1.25	0.22	1.03	0.00
63.20	1.25	0.22	1.03	0.00
63.40	1.25	0.22	1.03	0.00
63.60	1.25	0.22	1.03	0.00
63.80	1.25	0.22	1.03	0.00
64.00	1.25	0.22	1.03	0.00
64.20	1.25	0.22	1.03	0.00
64.40	1.25	0.22	1.03	0.00
64.60	1.25	0.22	1.03	0.00
64.80	1.25	0.22	1.03	0.00
65.00	1.25	0.22	1.03	0.00
65.20	1.25	0.22	1.03	0.00
65.40	1.25	0.22	1.03	0.00
65.60	1.25	0.22	1.03	0.00
65.80	1.25	0.22	1.03	0.00
66.00	1.25	0.22	1.03	0.00
66.20	1.25	0.22	1.03	0.00
66.40	1.25	0.22	1.03	0.00
66.60	1.25	0.22	1.03	0.00
66.80	1.25	0.22	1.03	0.00
67.00	1.25	0.22	1.03	0.00
67.20	1.25	0.22	1.03	0.00
67.40	1.25	0.22	1.03	0.00
67.60	1.25	0.22	1.03	0.00
67.80	1.25	0.22	1.03	0.00
68.00	1.25	0.22	1.03	0.00
68.20	1.25	0.22	1.03	0.00
68.40	1.25	0.22	1.03	0.00
68.60	1.25	0.22	1.03	0.00
68.80	1.25	0.22	1.03	0.00
69.00	1.25	0.22	1.03	0.00
69.20	1.25	0.22	1.03	0.00
69.40	1.25	0.22	1.03	0.00
69.60	1.25	0.22	1.03	0.00
69.80	1.25	0.22	1.03	0.00
70.00	1.25	0.22	1.03	0.00
70.20	1.25	0.22	1.03	0.00
70.40	1.25	0.22	1.03	0.00
70.60	1.25	0.22	1.03	0.00
70.80	1.25	0.22	1.03	0.00
71.00	1.25	0.22	1.03	0.00
71.20	1.25	0.22	1.03	0.00
71.40	1.25	0.22	1.03	0.00
71.60	1.25	0.22	1.03	0.00
71.80	1.25	0.22	1.03	0.00
72.00	1.25	0.22	1.03	0.00

**Summary for Subcatchment P-1C-11: Area 11**

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

Runoff = 0.35 cfs @ 1.08 hrs, Volume= 406 cf, Depth= 0.74"  
 Routed to Pond PV-11 : Pervious Pavers 11

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		<b>Sheet Flow, 11c1-11c2</b> Smooth surfaces n= 0.011 P2= 3.54"

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-11: Area 11**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.01
0.60	0.14	0.00	0.03	0.02
0.80	0.23	0.00	0.09	0.05
1.00	0.63	0.04	0.43	<b>0.31</b>
1.20	1.02	0.18	0.81	<b>0.08</b>
1.40	1.11	0.23	0.90	0.05
1.60	1.18	0.26	0.97	0.04
1.80	1.23	0.29	1.02	0.01
2.00	<b>1.25</b>	<b>0.30</b>	<b>1.03</b>	0.01
2.20	1.25	0.30	1.03	0.00
2.40	1.25	0.30	1.03	0.00
2.60	1.25	0.30	1.03	0.00
2.80	1.25	0.30	1.03	0.00
3.00	1.25	0.30	1.03	0.00
3.20	1.25	0.30	1.03	0.00
3.40	1.25	0.30	1.03	0.00
3.60	1.25	0.30	1.03	0.00
3.80	1.25	0.30	1.03	0.00
4.00	1.25	0.30	1.03	0.00
4.20	1.25	0.30	1.03	0.00
4.40	1.25	0.30	1.03	0.00
4.60	1.25	0.30	1.03	0.00
4.80	1.25	0.30	1.03	0.00
5.00	1.25	0.30	1.03	0.00
5.20	1.25	0.30	1.03	0.00
5.40	1.25	0.30	1.03	0.00
5.60	1.25	0.30	1.03	0.00
5.80	1.25	0.30	1.03	0.00
6.00	1.25	0.30	1.03	0.00
6.20	1.25	0.30	1.03	0.00
6.40	1.25	0.30	1.03	0.00
6.60	1.25	0.30	1.03	0.00
6.80	1.25	0.30	1.03	0.00
7.00	1.25	0.30	1.03	0.00
7.20	1.25	0.30	1.03	0.00
7.40	1.25	0.30	1.03	0.00
7.60	1.25	0.30	1.03	0.00
7.80	1.25	0.30	1.03	0.00
8.00	1.25	0.30	1.03	0.00
8.20	1.25	0.30	1.03	0.00
8.40	1.25	0.30	1.03	0.00
8.60	1.25	0.30	1.03	0.00
8.80	1.25	0.30	1.03	0.00
9.00	1.25	0.30	1.03	0.00
9.20	1.25	0.30	1.03	0.00
9.40	1.25	0.30	1.03	0.00
9.60	1.25	0.30	1.03	0.00
9.80	1.25	0.30	1.03	0.00
10.00	1.25	0.30	1.03	0.00
10.20	1.25	0.30	1.03	0.00

Hydrograph for Subcatchment P-1C-11: Area 11 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.30	1.03	0.00
10.60	1.25	0.30	1.03	0.00
10.80	1.25	0.30	1.03	0.00
11.00	1.25	0.30	1.03	0.00
11.20	1.25	0.30	1.03	0.00
11.40	1.25	0.30	1.03	0.00
11.60	1.25	0.30	1.03	0.00
11.80	1.25	0.30	1.03	0.00
12.00	1.25	0.30	1.03	0.00
12.20	1.25	0.30	1.03	0.00
12.40	1.25	0.30	1.03	0.00
12.60	1.25	0.30	1.03	0.00
12.80	1.25	0.30	1.03	0.00
13.00	1.25	0.30	1.03	0.00
13.20	1.25	0.30	1.03	0.00
13.40	1.25	0.30	1.03	0.00
13.60	1.25	0.30	1.03	0.00
13.80	1.25	0.30	1.03	0.00
14.00	1.25	0.30	1.03	0.00
14.20	1.25	0.30	1.03	0.00
14.40	1.25	0.30	1.03	0.00
14.60	1.25	0.30	1.03	0.00
14.80	1.25	0.30	1.03	0.00
15.00	1.25	0.30	1.03	0.00
15.20	1.25	0.30	1.03	0.00
15.40	1.25	0.30	1.03	0.00
15.60	1.25	0.30	1.03	0.00
15.80	1.25	0.30	1.03	0.00
16.00	1.25	0.30	1.03	0.00
16.20	1.25	0.30	1.03	0.00
16.40	1.25	0.30	1.03	0.00
16.60	1.25	0.30	1.03	0.00
16.80	1.25	0.30	1.03	0.00
17.00	1.25	0.30	1.03	0.00
17.20	1.25	0.30	1.03	0.00
17.40	1.25	0.30	1.03	0.00
17.60	1.25	0.30	1.03	0.00
17.80	1.25	0.30	1.03	0.00
18.00	1.25	0.30	1.03	0.00
18.20	1.25	0.30	1.03	0.00
18.40	1.25	0.30	1.03	0.00
18.60	1.25	0.30	1.03	0.00
18.80	1.25	0.30	1.03	0.00
19.00	1.25	0.30	1.03	0.00
19.20	1.25	0.30	1.03	0.00
19.40	1.25	0.30	1.03	0.00
19.60	1.25	0.30	1.03	0.00
19.80	1.25	0.30	1.03	0.00
20.00	1.25	0.30	1.03	0.00
20.20	1.25	0.30	1.03	0.00
20.40	1.25	0.30	1.03	0.00
20.60	1.25	0.30	1.03	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.30	1.03	0.00
21.00	1.25	0.30	1.03	0.00
21.20	1.25	0.30	1.03	0.00
21.40	1.25	0.30	1.03	0.00
21.60	1.25	0.30	1.03	0.00
21.80	1.25	0.30	1.03	0.00
22.00	1.25	0.30	1.03	0.00
22.20	1.25	0.30	1.03	0.00
22.40	1.25	0.30	1.03	0.00
22.60	1.25	0.30	1.03	0.00
22.80	1.25	0.30	1.03	0.00
23.00	1.25	0.30	1.03	0.00
23.20	1.25	0.30	1.03	0.00
23.40	1.25	0.30	1.03	0.00
23.60	1.25	0.30	1.03	0.00
23.80	1.25	0.30	1.03	0.00
24.00	1.25	0.30	1.03	0.00
24.20	1.25	0.30	1.03	0.00
24.40	1.25	0.30	1.03	0.00
24.60	1.25	0.30	1.03	0.00
24.80	1.25	0.30	1.03	0.00
25.00	1.25	0.30	1.03	0.00
25.20	1.25	0.30	1.03	0.00
25.40	1.25	0.30	1.03	0.00
25.60	1.25	0.30	1.03	0.00
25.80	1.25	0.30	1.03	0.00
26.00	1.25	0.30	1.03	0.00
26.20	1.25	0.30	1.03	0.00
26.40	1.25	0.30	1.03	0.00
26.60	1.25	0.30	1.03	0.00
26.80	1.25	0.30	1.03	0.00
27.00	1.25	0.30	1.03	0.00
27.20	1.25	0.30	1.03	0.00
27.40	1.25	0.30	1.03	0.00
27.60	1.25	0.30	1.03	0.00
27.80	1.25	0.30	1.03	0.00
28.00	1.25	0.30	1.03	0.00
28.20	1.25	0.30	1.03	0.00
28.40	1.25	0.30	1.03	0.00
28.60	1.25	0.30	1.03	0.00
28.80	1.25	0.30	1.03	0.00
29.00	1.25	0.30	1.03	0.00
29.20	1.25	0.30	1.03	0.00
29.40	1.25	0.30	1.03	0.00
29.60	1.25	0.30	1.03	0.00
29.80	1.25	0.30	1.03	0.00
30.00	1.25	0.30	1.03	0.00
30.20	1.25	0.30	1.03	0.00
30.40	1.25	0.30	1.03	0.00
30.60	1.25	0.30	1.03	0.00
30.80	1.25	0.30	1.03	0.00
31.00	1.25	0.30	1.03	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.30	1.03	0.00
31.40	1.25	0.30	1.03	0.00
31.60	1.25	0.30	1.03	0.00
31.80	1.25	0.30	1.03	0.00
32.00	1.25	0.30	1.03	0.00
32.20	1.25	0.30	1.03	0.00
32.40	1.25	0.30	1.03	0.00
32.60	1.25	0.30	1.03	0.00
32.80	1.25	0.30	1.03	0.00
33.00	1.25	0.30	1.03	0.00
33.20	1.25	0.30	1.03	0.00
33.40	1.25	0.30	1.03	0.00
33.60	1.25	0.30	1.03	0.00
33.80	1.25	0.30	1.03	0.00
34.00	1.25	0.30	1.03	0.00
34.20	1.25	0.30	1.03	0.00
34.40	1.25	0.30	1.03	0.00
34.60	1.25	0.30	1.03	0.00
34.80	1.25	0.30	1.03	0.00
35.00	1.25	0.30	1.03	0.00
35.20	1.25	0.30	1.03	0.00
35.40	1.25	0.30	1.03	0.00
35.60	1.25	0.30	1.03	0.00
35.80	1.25	0.30	1.03	0.00
36.00	1.25	0.30	1.03	0.00
36.20	1.25	0.30	1.03	0.00
36.40	1.25	0.30	1.03	0.00
36.60	1.25	0.30	1.03	0.00
36.80	1.25	0.30	1.03	0.00
37.00	1.25	0.30	1.03	0.00
37.20	1.25	0.30	1.03	0.00
37.40	1.25	0.30	1.03	0.00
37.60	1.25	0.30	1.03	0.00
37.80	1.25	0.30	1.03	0.00
38.00	1.25	0.30	1.03	0.00
38.20	1.25	0.30	1.03	0.00
38.40	1.25	0.30	1.03	0.00
38.60	1.25	0.30	1.03	0.00
38.80	1.25	0.30	1.03	0.00
39.00	1.25	0.30	1.03	0.00
39.20	1.25	0.30	1.03	0.00
39.40	1.25	0.30	1.03	0.00
39.60	1.25	0.30	1.03	0.00
39.80	1.25	0.30	1.03	0.00
40.00	1.25	0.30	1.03	0.00
40.20	1.25	0.30	1.03	0.00
40.40	1.25	0.30	1.03	0.00
40.60	1.25	0.30	1.03	0.00
40.80	1.25	0.30	1.03	0.00
41.00	1.25	0.30	1.03	0.00
41.20	1.25	0.30	1.03	0.00
41.40	1.25	0.30	1.03	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.30	1.03	0.00
41.80	1.25	0.30	1.03	0.00
42.00	1.25	0.30	1.03	0.00
42.20	1.25	0.30	1.03	0.00
42.40	1.25	0.30	1.03	0.00
42.60	1.25	0.30	1.03	0.00
42.80	1.25	0.30	1.03	0.00
43.00	1.25	0.30	1.03	0.00
43.20	1.25	0.30	1.03	0.00
43.40	1.25	0.30	1.03	0.00
43.60	1.25	0.30	1.03	0.00
43.80	1.25	0.30	1.03	0.00
44.00	1.25	0.30	1.03	0.00
44.20	1.25	0.30	1.03	0.00
44.40	1.25	0.30	1.03	0.00
44.60	1.25	0.30	1.03	0.00
44.80	1.25	0.30	1.03	0.00
45.00	1.25	0.30	1.03	0.00
45.20	1.25	0.30	1.03	0.00
45.40	1.25	0.30	1.03	0.00
45.60	1.25	0.30	1.03	0.00
45.80	1.25	0.30	1.03	0.00
46.00	1.25	0.30	1.03	0.00
46.20	1.25	0.30	1.03	0.00
46.40	1.25	0.30	1.03	0.00
46.60	1.25	0.30	1.03	0.00
46.80	1.25	0.30	1.03	0.00
47.00	1.25	0.30	1.03	0.00
47.20	1.25	0.30	1.03	0.00
47.40	1.25	0.30	1.03	0.00
47.60	1.25	0.30	1.03	0.00
47.80	1.25	0.30	1.03	0.00
48.00	1.25	0.30	1.03	0.00
48.20	1.25	0.30	1.03	0.00
48.40	1.25	0.30	1.03	0.00
48.60	1.25	0.30	1.03	0.00
48.80	1.25	0.30	1.03	0.00
49.00	1.25	0.30	1.03	0.00
49.20	1.25	0.30	1.03	0.00
49.40	1.25	0.30	1.03	0.00
49.60	1.25	0.30	1.03	0.00
49.80	1.25	0.30	1.03	0.00
50.00	1.25	0.30	1.03	0.00
50.20	1.25	0.30	1.03	0.00
50.40	1.25	0.30	1.03	0.00
50.60	1.25	0.30	1.03	0.00
50.80	1.25	0.30	1.03	0.00
51.00	1.25	0.30	1.03	0.00
51.20	1.25	0.30	1.03	0.00
51.40	1.25	0.30	1.03	0.00
51.60	1.25	0.30	1.03	0.00
51.80	1.25	0.30	1.03	0.00



**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.30	1.03	0.00
52.20	1.25	0.30	1.03	0.00
52.40	1.25	0.30	1.03	0.00
52.60	1.25	0.30	1.03	0.00
52.80	1.25	0.30	1.03	0.00
53.00	1.25	0.30	1.03	0.00
53.20	1.25	0.30	1.03	0.00
53.40	1.25	0.30	1.03	0.00
53.60	1.25	0.30	1.03	0.00
53.80	1.25	0.30	1.03	0.00
54.00	1.25	0.30	1.03	0.00
54.20	1.25	0.30	1.03	0.00
54.40	1.25	0.30	1.03	0.00
54.60	1.25	0.30	1.03	0.00
54.80	1.25	0.30	1.03	0.00
55.00	1.25	0.30	1.03	0.00
55.20	1.25	0.30	1.03	0.00
55.40	1.25	0.30	1.03	0.00
55.60	1.25	0.30	1.03	0.00
55.80	1.25	0.30	1.03	0.00
56.00	1.25	0.30	1.03	0.00
56.20	1.25	0.30	1.03	0.00
56.40	1.25	0.30	1.03	0.00
56.60	1.25	0.30	1.03	0.00
56.80	1.25	0.30	1.03	0.00
57.00	1.25	0.30	1.03	0.00
57.20	1.25	0.30	1.03	0.00
57.40	1.25	0.30	1.03	0.00
57.60	1.25	0.30	1.03	0.00
57.80	1.25	0.30	1.03	0.00
58.00	1.25	0.30	1.03	0.00
58.20	1.25	0.30	1.03	0.00
58.40	1.25	0.30	1.03	0.00
58.60	1.25	0.30	1.03	0.00
58.80	1.25	0.30	1.03	0.00
59.00	1.25	0.30	1.03	0.00
59.20	1.25	0.30	1.03	0.00
59.40	1.25	0.30	1.03	0.00
59.60	1.25	0.30	1.03	0.00
59.80	1.25	0.30	1.03	0.00
60.00	1.25	0.30	1.03	0.00
60.20	1.25	0.30	1.03	0.00
60.40	1.25	0.30	1.03	0.00
60.60	1.25	0.30	1.03	0.00
60.80	1.25	0.30	1.03	0.00
61.00	1.25	0.30	1.03	0.00
61.20	1.25	0.30	1.03	0.00
61.40	1.25	0.30	1.03	0.00
61.60	1.25	0.30	1.03	0.00
61.80	1.25	0.30	1.03	0.00
62.00	1.25	0.30	1.03	0.00
62.20	1.25	0.30	1.03	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.30	1.03	0.00
62.60	1.25	0.30	1.03	0.00
62.80	1.25	0.30	1.03	0.00
63.00	1.25	0.30	1.03	0.00
63.20	1.25	0.30	1.03	0.00
63.40	1.25	0.30	1.03	0.00
63.60	1.25	0.30	1.03	0.00
63.80	1.25	0.30	1.03	0.00
64.00	1.25	0.30	1.03	0.00
64.20	1.25	0.30	1.03	0.00
64.40	1.25	0.30	1.03	0.00
64.60	1.25	0.30	1.03	0.00
64.80	1.25	0.30	1.03	0.00
65.00	1.25	0.30	1.03	0.00
65.20	1.25	0.30	1.03	0.00
65.40	1.25	0.30	1.03	0.00
65.60	1.25	0.30	1.03	0.00
65.80	1.25	0.30	1.03	0.00
66.00	1.25	0.30	1.03	0.00
66.20	1.25	0.30	1.03	0.00
66.40	1.25	0.30	1.03	0.00
66.60	1.25	0.30	1.03	0.00
66.80	1.25	0.30	1.03	0.00
67.00	1.25	0.30	1.03	0.00
67.20	1.25	0.30	1.03	0.00
67.40	1.25	0.30	1.03	0.00
67.60	1.25	0.30	1.03	0.00
67.80	1.25	0.30	1.03	0.00
68.00	1.25	0.30	1.03	0.00
68.20	1.25	0.30	1.03	0.00
68.40	1.25	0.30	1.03	0.00
68.60	1.25	0.30	1.03	0.00
68.80	1.25	0.30	1.03	0.00
69.00	1.25	0.30	1.03	0.00
69.20	1.25	0.30	1.03	0.00
69.40	1.25	0.30	1.03	0.00
69.60	1.25	0.30	1.03	0.00
69.80	1.25	0.30	1.03	0.00
70.00	1.25	0.30	1.03	0.00
70.20	1.25	0.30	1.03	0.00
70.40	1.25	0.30	1.03	0.00
70.60	1.25	0.30	1.03	0.00
70.80	1.25	0.30	1.03	0.00
71.00	1.25	0.30	1.03	0.00
71.20	1.25	0.30	1.03	0.00
71.40	1.25	0.30	1.03	0.00
71.60	1.25	0.30	1.03	0.00
71.80	1.25	0.30	1.03	0.00
72.00	1.25	0.30	1.03	0.00

**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 0.33 cfs @ 1.10 hrs, Volume= 401 cf, Depth= 0.69"  
 Routed to Pond PV-7 : Pervious Pavers 7

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

Area (sf)	CN	Description
* 226	98	Impervious
* 3,598	98	MVS - Impervious
* 2,430	85	MVS - Pervious Pavers
709	80	>75% Grass cover, Good, HSG D
6,963	92	Weighted Average
3,139	84	45.08% Pervious Area
3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b>
					Paved Kv= 20.3 fps
3.7	54	Total			

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-7: Area 7**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.02
0.80	0.23	0.00	0.09	0.03
1.00	0.63	0.03	0.43	<b>0.25</b>
1.20	1.02	0.16	0.81	<b>0.14</b>
1.40	1.11	0.20	0.90	0.05
1.60	1.18	0.24	0.97	0.04
1.80	1.23	0.26	1.02	0.03
2.00	<b>1.25</b>	<b>0.27</b>	<b>1.03</b>	0.01
2.20	1.25	0.27	1.03	0.00
2.40	1.25	0.27	1.03	0.00
2.60	1.25	0.27	1.03	0.00
2.80	1.25	0.27	1.03	0.00
3.00	1.25	0.27	1.03	0.00
3.20	1.25	0.27	1.03	0.00
3.40	1.25	0.27	1.03	0.00
3.60	1.25	0.27	1.03	0.00
3.80	1.25	0.27	1.03	0.00
4.00	1.25	0.27	1.03	0.00
4.20	1.25	0.27	1.03	0.00
4.40	1.25	0.27	1.03	0.00
4.60	1.25	0.27	1.03	0.00
4.80	1.25	0.27	1.03	0.00
5.00	1.25	0.27	1.03	0.00
5.20	1.25	0.27	1.03	0.00
5.40	1.25	0.27	1.03	0.00
5.60	1.25	0.27	1.03	0.00
5.80	1.25	0.27	1.03	0.00
6.00	1.25	0.27	1.03	0.00
6.20	1.25	0.27	1.03	0.00
6.40	1.25	0.27	1.03	0.00
6.60	1.25	0.27	1.03	0.00
6.80	1.25	0.27	1.03	0.00
7.00	1.25	0.27	1.03	0.00
7.20	1.25	0.27	1.03	0.00
7.40	1.25	0.27	1.03	0.00
7.60	1.25	0.27	1.03	0.00
7.80	1.25	0.27	1.03	0.00
8.00	1.25	0.27	1.03	0.00
8.20	1.25	0.27	1.03	0.00
8.40	1.25	0.27	1.03	0.00
8.60	1.25	0.27	1.03	0.00
8.80	1.25	0.27	1.03	0.00
9.00	1.25	0.27	1.03	0.00
9.20	1.25	0.27	1.03	0.00
9.40	1.25	0.27	1.03	0.00
9.60	1.25	0.27	1.03	0.00
9.80	1.25	0.27	1.03	0.00
10.00	1.25	0.27	1.03	0.00
10.20	1.25	0.27	1.03	0.00

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.27	1.03	0.00
10.60	1.25	0.27	1.03	0.00
10.80	1.25	0.27	1.03	0.00
11.00	1.25	0.27	1.03	0.00
11.20	1.25	0.27	1.03	0.00
11.40	1.25	0.27	1.03	0.00
11.60	1.25	0.27	1.03	0.00
11.80	1.25	0.27	1.03	0.00
12.00	1.25	0.27	1.03	0.00
12.20	1.25	0.27	1.03	0.00
12.40	1.25	0.27	1.03	0.00
12.60	1.25	0.27	1.03	0.00
12.80	1.25	0.27	1.03	0.00
13.00	1.25	0.27	1.03	0.00
13.20	1.25	0.27	1.03	0.00
13.40	1.25	0.27	1.03	0.00
13.60	1.25	0.27	1.03	0.00
13.80	1.25	0.27	1.03	0.00
14.00	1.25	0.27	1.03	0.00
14.20	1.25	0.27	1.03	0.00
14.40	1.25	0.27	1.03	0.00
14.60	1.25	0.27	1.03	0.00
14.80	1.25	0.27	1.03	0.00
15.00	1.25	0.27	1.03	0.00
15.20	1.25	0.27	1.03	0.00
15.40	1.25	0.27	1.03	0.00
15.60	1.25	0.27	1.03	0.00
15.80	1.25	0.27	1.03	0.00
16.00	1.25	0.27	1.03	0.00
16.20	1.25	0.27	1.03	0.00
16.40	1.25	0.27	1.03	0.00
16.60	1.25	0.27	1.03	0.00
16.80	1.25	0.27	1.03	0.00
17.00	1.25	0.27	1.03	0.00
17.20	1.25	0.27	1.03	0.00
17.40	1.25	0.27	1.03	0.00
17.60	1.25	0.27	1.03	0.00
17.80	1.25	0.27	1.03	0.00
18.00	1.25	0.27	1.03	0.00
18.20	1.25	0.27	1.03	0.00
18.40	1.25	0.27	1.03	0.00
18.60	1.25	0.27	1.03	0.00
18.80	1.25	0.27	1.03	0.00
19.00	1.25	0.27	1.03	0.00
19.20	1.25	0.27	1.03	0.00
19.40	1.25	0.27	1.03	0.00
19.60	1.25	0.27	1.03	0.00
19.80	1.25	0.27	1.03	0.00
20.00	1.25	0.27	1.03	0.00
20.20	1.25	0.27	1.03	0.00
20.40	1.25	0.27	1.03	0.00
20.60	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.27	1.03	0.00
21.00	1.25	0.27	1.03	0.00
21.20	1.25	0.27	1.03	0.00
21.40	1.25	0.27	1.03	0.00
21.60	1.25	0.27	1.03	0.00
21.80	1.25	0.27	1.03	0.00
22.00	1.25	0.27	1.03	0.00
22.20	1.25	0.27	1.03	0.00
22.40	1.25	0.27	1.03	0.00
22.60	1.25	0.27	1.03	0.00
22.80	1.25	0.27	1.03	0.00
23.00	1.25	0.27	1.03	0.00
23.20	1.25	0.27	1.03	0.00
23.40	1.25	0.27	1.03	0.00
23.60	1.25	0.27	1.03	0.00
23.80	1.25	0.27	1.03	0.00
24.00	1.25	0.27	1.03	0.00
24.20	1.25	0.27	1.03	0.00
24.40	1.25	0.27	1.03	0.00
24.60	1.25	0.27	1.03	0.00
24.80	1.25	0.27	1.03	0.00
25.00	1.25	0.27	1.03	0.00
25.20	1.25	0.27	1.03	0.00
25.40	1.25	0.27	1.03	0.00
25.60	1.25	0.27	1.03	0.00
25.80	1.25	0.27	1.03	0.00
26.00	1.25	0.27	1.03	0.00
26.20	1.25	0.27	1.03	0.00
26.40	1.25	0.27	1.03	0.00
26.60	1.25	0.27	1.03	0.00
26.80	1.25	0.27	1.03	0.00
27.00	1.25	0.27	1.03	0.00
27.20	1.25	0.27	1.03	0.00
27.40	1.25	0.27	1.03	0.00
27.60	1.25	0.27	1.03	0.00
27.80	1.25	0.27	1.03	0.00
28.00	1.25	0.27	1.03	0.00
28.20	1.25	0.27	1.03	0.00
28.40	1.25	0.27	1.03	0.00
28.60	1.25	0.27	1.03	0.00
28.80	1.25	0.27	1.03	0.00
29.00	1.25	0.27	1.03	0.00
29.20	1.25	0.27	1.03	0.00
29.40	1.25	0.27	1.03	0.00
29.60	1.25	0.27	1.03	0.00
29.80	1.25	0.27	1.03	0.00
30.00	1.25	0.27	1.03	0.00
30.20	1.25	0.27	1.03	0.00
30.40	1.25	0.27	1.03	0.00
30.60	1.25	0.27	1.03	0.00
30.80	1.25	0.27	1.03	0.00
31.00	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.27	1.03	0.00
31.40	1.25	0.27	1.03	0.00
31.60	1.25	0.27	1.03	0.00
31.80	1.25	0.27	1.03	0.00
32.00	1.25	0.27	1.03	0.00
32.20	1.25	0.27	1.03	0.00
32.40	1.25	0.27	1.03	0.00
32.60	1.25	0.27	1.03	0.00
32.80	1.25	0.27	1.03	0.00
33.00	1.25	0.27	1.03	0.00
33.20	1.25	0.27	1.03	0.00
33.40	1.25	0.27	1.03	0.00
33.60	1.25	0.27	1.03	0.00
33.80	1.25	0.27	1.03	0.00
34.00	1.25	0.27	1.03	0.00
34.20	1.25	0.27	1.03	0.00
34.40	1.25	0.27	1.03	0.00
34.60	1.25	0.27	1.03	0.00
34.80	1.25	0.27	1.03	0.00
35.00	1.25	0.27	1.03	0.00
35.20	1.25	0.27	1.03	0.00
35.40	1.25	0.27	1.03	0.00
35.60	1.25	0.27	1.03	0.00
35.80	1.25	0.27	1.03	0.00
36.00	1.25	0.27	1.03	0.00
36.20	1.25	0.27	1.03	0.00
36.40	1.25	0.27	1.03	0.00
36.60	1.25	0.27	1.03	0.00
36.80	1.25	0.27	1.03	0.00
37.00	1.25	0.27	1.03	0.00
37.20	1.25	0.27	1.03	0.00
37.40	1.25	0.27	1.03	0.00
37.60	1.25	0.27	1.03	0.00
37.80	1.25	0.27	1.03	0.00
38.00	1.25	0.27	1.03	0.00
38.20	1.25	0.27	1.03	0.00
38.40	1.25	0.27	1.03	0.00
38.60	1.25	0.27	1.03	0.00
38.80	1.25	0.27	1.03	0.00
39.00	1.25	0.27	1.03	0.00
39.20	1.25	0.27	1.03	0.00
39.40	1.25	0.27	1.03	0.00
39.60	1.25	0.27	1.03	0.00
39.80	1.25	0.27	1.03	0.00
40.00	1.25	0.27	1.03	0.00
40.20	1.25	0.27	1.03	0.00
40.40	1.25	0.27	1.03	0.00
40.60	1.25	0.27	1.03	0.00
40.80	1.25	0.27	1.03	0.00
41.00	1.25	0.27	1.03	0.00
41.20	1.25	0.27	1.03	0.00
41.40	1.25	0.27	1.03	0.00

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.27	1.03	0.00
41.80	1.25	0.27	1.03	0.00
42.00	1.25	0.27	1.03	0.00
42.20	1.25	0.27	1.03	0.00
42.40	1.25	0.27	1.03	0.00
42.60	1.25	0.27	1.03	0.00
42.80	1.25	0.27	1.03	0.00
43.00	1.25	0.27	1.03	0.00
43.20	1.25	0.27	1.03	0.00
43.40	1.25	0.27	1.03	0.00
43.60	1.25	0.27	1.03	0.00
43.80	1.25	0.27	1.03	0.00
44.00	1.25	0.27	1.03	0.00
44.20	1.25	0.27	1.03	0.00
44.40	1.25	0.27	1.03	0.00
44.60	1.25	0.27	1.03	0.00
44.80	1.25	0.27	1.03	0.00
45.00	1.25	0.27	1.03	0.00
45.20	1.25	0.27	1.03	0.00
45.40	1.25	0.27	1.03	0.00
45.60	1.25	0.27	1.03	0.00
45.80	1.25	0.27	1.03	0.00
46.00	1.25	0.27	1.03	0.00
46.20	1.25	0.27	1.03	0.00
46.40	1.25	0.27	1.03	0.00
46.60	1.25	0.27	1.03	0.00
46.80	1.25	0.27	1.03	0.00
47.00	1.25	0.27	1.03	0.00
47.20	1.25	0.27	1.03	0.00
47.40	1.25	0.27	1.03	0.00
47.60	1.25	0.27	1.03	0.00
47.80	1.25	0.27	1.03	0.00
48.00	1.25	0.27	1.03	0.00
48.20	1.25	0.27	1.03	0.00
48.40	1.25	0.27	1.03	0.00
48.60	1.25	0.27	1.03	0.00
48.80	1.25	0.27	1.03	0.00
49.00	1.25	0.27	1.03	0.00
49.20	1.25	0.27	1.03	0.00
49.40	1.25	0.27	1.03	0.00
49.60	1.25	0.27	1.03	0.00
49.80	1.25	0.27	1.03	0.00
50.00	1.25	0.27	1.03	0.00
50.20	1.25	0.27	1.03	0.00
50.40	1.25	0.27	1.03	0.00
50.60	1.25	0.27	1.03	0.00
50.80	1.25	0.27	1.03	0.00
51.00	1.25	0.27	1.03	0.00
51.20	1.25	0.27	1.03	0.00
51.40	1.25	0.27	1.03	0.00
51.60	1.25	0.27	1.03	0.00
51.80	1.25	0.27	1.03	0.00



**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.27	1.03	0.00
52.20	1.25	0.27	1.03	0.00
52.40	1.25	0.27	1.03	0.00
52.60	1.25	0.27	1.03	0.00
52.80	1.25	0.27	1.03	0.00
53.00	1.25	0.27	1.03	0.00
53.20	1.25	0.27	1.03	0.00
53.40	1.25	0.27	1.03	0.00
53.60	1.25	0.27	1.03	0.00
53.80	1.25	0.27	1.03	0.00
54.00	1.25	0.27	1.03	0.00
54.20	1.25	0.27	1.03	0.00
54.40	1.25	0.27	1.03	0.00
54.60	1.25	0.27	1.03	0.00
54.80	1.25	0.27	1.03	0.00
55.00	1.25	0.27	1.03	0.00
55.20	1.25	0.27	1.03	0.00
55.40	1.25	0.27	1.03	0.00
55.60	1.25	0.27	1.03	0.00
55.80	1.25	0.27	1.03	0.00
56.00	1.25	0.27	1.03	0.00
56.20	1.25	0.27	1.03	0.00
56.40	1.25	0.27	1.03	0.00
56.60	1.25	0.27	1.03	0.00
56.80	1.25	0.27	1.03	0.00
57.00	1.25	0.27	1.03	0.00
57.20	1.25	0.27	1.03	0.00
57.40	1.25	0.27	1.03	0.00
57.60	1.25	0.27	1.03	0.00
57.80	1.25	0.27	1.03	0.00
58.00	1.25	0.27	1.03	0.00
58.20	1.25	0.27	1.03	0.00
58.40	1.25	0.27	1.03	0.00
58.60	1.25	0.27	1.03	0.00
58.80	1.25	0.27	1.03	0.00
59.00	1.25	0.27	1.03	0.00
59.20	1.25	0.27	1.03	0.00
59.40	1.25	0.27	1.03	0.00
59.60	1.25	0.27	1.03	0.00
59.80	1.25	0.27	1.03	0.00
60.00	1.25	0.27	1.03	0.00
60.20	1.25	0.27	1.03	0.00
60.40	1.25	0.27	1.03	0.00
60.60	1.25	0.27	1.03	0.00
60.80	1.25	0.27	1.03	0.00
61.00	1.25	0.27	1.03	0.00
61.20	1.25	0.27	1.03	0.00
61.40	1.25	0.27	1.03	0.00
61.60	1.25	0.27	1.03	0.00
61.80	1.25	0.27	1.03	0.00
62.00	1.25	0.27	1.03	0.00
62.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.27	1.03	0.00
62.60	1.25	0.27	1.03	0.00
62.80	1.25	0.27	1.03	0.00
63.00	1.25	0.27	1.03	0.00
63.20	1.25	0.27	1.03	0.00
63.40	1.25	0.27	1.03	0.00
63.60	1.25	0.27	1.03	0.00
63.80	1.25	0.27	1.03	0.00
64.00	1.25	0.27	1.03	0.00
64.20	1.25	0.27	1.03	0.00
64.40	1.25	0.27	1.03	0.00
64.60	1.25	0.27	1.03	0.00
64.80	1.25	0.27	1.03	0.00
65.00	1.25	0.27	1.03	0.00
65.20	1.25	0.27	1.03	0.00
65.40	1.25	0.27	1.03	0.00
65.60	1.25	0.27	1.03	0.00
65.80	1.25	0.27	1.03	0.00
66.00	1.25	0.27	1.03	0.00
66.20	1.25	0.27	1.03	0.00
66.40	1.25	0.27	1.03	0.00
66.60	1.25	0.27	1.03	0.00
66.80	1.25	0.27	1.03	0.00
67.00	1.25	0.27	1.03	0.00
67.20	1.25	0.27	1.03	0.00
67.40	1.25	0.27	1.03	0.00
67.60	1.25	0.27	1.03	0.00
67.80	1.25	0.27	1.03	0.00
68.00	1.25	0.27	1.03	0.00
68.20	1.25	0.27	1.03	0.00
68.40	1.25	0.27	1.03	0.00
68.60	1.25	0.27	1.03	0.00
68.80	1.25	0.27	1.03	0.00
69.00	1.25	0.27	1.03	0.00
69.20	1.25	0.27	1.03	0.00
69.40	1.25	0.27	1.03	0.00
69.60	1.25	0.27	1.03	0.00
69.80	1.25	0.27	1.03	0.00
70.00	1.25	0.27	1.03	0.00
70.20	1.25	0.27	1.03	0.00
70.40	1.25	0.27	1.03	0.00
70.60	1.25	0.27	1.03	0.00
70.80	1.25	0.27	1.03	0.00
71.00	1.25	0.27	1.03	0.00
71.20	1.25	0.27	1.03	0.00
71.40	1.25	0.27	1.03	0.00
71.60	1.25	0.27	1.03	0.00
71.80	1.25	0.27	1.03	0.00
72.00	1.25	0.27	1.03	0.00

**Summary for Subcatchment P-1C-8: Area 8**

Runoff = 0.25 cfs @ 1.09 hrs, Volume= 265 cf, Depth= 0.49"  
 Routed to Pond PV-8 : Pervious Pavers 8

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 8c1-8c2</b> Grass: Short n= 0.150 P2= 3.54"

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-8: Area 8**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.01
0.80	0.23	0.00	0.09	0.02
1.00	0.63	0.03	0.43	<b>0.17</b>
1.20	1.02	0.16	0.81	<b>0.08</b>
1.40	1.11	0.20	0.90	0.04
1.60	1.18	0.24	0.97	0.03
1.80	1.23	0.26	1.02	0.01
2.00	<b>1.25</b>	<b>0.27</b>	<b>1.03</b>	0.01
2.20	1.25	0.27	1.03	0.00
2.40	1.25	0.27	1.03	0.00
2.60	1.25	0.27	1.03	0.00
2.80	1.25	0.27	1.03	0.00
3.00	1.25	0.27	1.03	0.00
3.20	1.25	0.27	1.03	0.00
3.40	1.25	0.27	1.03	0.00
3.60	1.25	0.27	1.03	0.00
3.80	1.25	0.27	1.03	0.00
4.00	1.25	0.27	1.03	0.00
4.20	1.25	0.27	1.03	0.00
4.40	1.25	0.27	1.03	0.00
4.60	1.25	0.27	1.03	0.00
4.80	1.25	0.27	1.03	0.00
5.00	1.25	0.27	1.03	0.00
5.20	1.25	0.27	1.03	0.00
5.40	1.25	0.27	1.03	0.00
5.60	1.25	0.27	1.03	0.00
5.80	1.25	0.27	1.03	0.00
6.00	1.25	0.27	1.03	0.00
6.20	1.25	0.27	1.03	0.00
6.40	1.25	0.27	1.03	0.00
6.60	1.25	0.27	1.03	0.00
6.80	1.25	0.27	1.03	0.00
7.00	1.25	0.27	1.03	0.00
7.20	1.25	0.27	1.03	0.00
7.40	1.25	0.27	1.03	0.00
7.60	1.25	0.27	1.03	0.00
7.80	1.25	0.27	1.03	0.00
8.00	1.25	0.27	1.03	0.00
8.20	1.25	0.27	1.03	0.00
8.40	1.25	0.27	1.03	0.00
8.60	1.25	0.27	1.03	0.00
8.80	1.25	0.27	1.03	0.00
9.00	1.25	0.27	1.03	0.00
9.20	1.25	0.27	1.03	0.00
9.40	1.25	0.27	1.03	0.00
9.60	1.25	0.27	1.03	0.00
9.80	1.25	0.27	1.03	0.00
10.00	1.25	0.27	1.03	0.00
10.20	1.25	0.27	1.03	0.00

Hydrograph for Subcatchment P-1C-8: Area 8 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.27	1.03	0.00
10.60	1.25	0.27	1.03	0.00
10.80	1.25	0.27	1.03	0.00
11.00	1.25	0.27	1.03	0.00
11.20	1.25	0.27	1.03	0.00
11.40	1.25	0.27	1.03	0.00
11.60	1.25	0.27	1.03	0.00
11.80	1.25	0.27	1.03	0.00
12.00	1.25	0.27	1.03	0.00
12.20	1.25	0.27	1.03	0.00
12.40	1.25	0.27	1.03	0.00
12.60	1.25	0.27	1.03	0.00
12.80	1.25	0.27	1.03	0.00
13.00	1.25	0.27	1.03	0.00
13.20	1.25	0.27	1.03	0.00
13.40	1.25	0.27	1.03	0.00
13.60	1.25	0.27	1.03	0.00
13.80	1.25	0.27	1.03	0.00
14.00	1.25	0.27	1.03	0.00
14.20	1.25	0.27	1.03	0.00
14.40	1.25	0.27	1.03	0.00
14.60	1.25	0.27	1.03	0.00
14.80	1.25	0.27	1.03	0.00
15.00	1.25	0.27	1.03	0.00
15.20	1.25	0.27	1.03	0.00
15.40	1.25	0.27	1.03	0.00
15.60	1.25	0.27	1.03	0.00
15.80	1.25	0.27	1.03	0.00
16.00	1.25	0.27	1.03	0.00
16.20	1.25	0.27	1.03	0.00
16.40	1.25	0.27	1.03	0.00
16.60	1.25	0.27	1.03	0.00
16.80	1.25	0.27	1.03	0.00
17.00	1.25	0.27	1.03	0.00
17.20	1.25	0.27	1.03	0.00
17.40	1.25	0.27	1.03	0.00
17.60	1.25	0.27	1.03	0.00
17.80	1.25	0.27	1.03	0.00
18.00	1.25	0.27	1.03	0.00
18.20	1.25	0.27	1.03	0.00
18.40	1.25	0.27	1.03	0.00
18.60	1.25	0.27	1.03	0.00
18.80	1.25	0.27	1.03	0.00
19.00	1.25	0.27	1.03	0.00
19.20	1.25	0.27	1.03	0.00
19.40	1.25	0.27	1.03	0.00
19.60	1.25	0.27	1.03	0.00
19.80	1.25	0.27	1.03	0.00
20.00	1.25	0.27	1.03	0.00
20.20	1.25	0.27	1.03	0.00
20.40	1.25	0.27	1.03	0.00
20.60	1.25	0.27	1.03	0.00

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.27	1.03	0.00
21.00	1.25	0.27	1.03	0.00
21.20	1.25	0.27	1.03	0.00
21.40	1.25	0.27	1.03	0.00
21.60	1.25	0.27	1.03	0.00
21.80	1.25	0.27	1.03	0.00
22.00	1.25	0.27	1.03	0.00
22.20	1.25	0.27	1.03	0.00
22.40	1.25	0.27	1.03	0.00
22.60	1.25	0.27	1.03	0.00
22.80	1.25	0.27	1.03	0.00
23.00	1.25	0.27	1.03	0.00
23.20	1.25	0.27	1.03	0.00
23.40	1.25	0.27	1.03	0.00
23.60	1.25	0.27	1.03	0.00
23.80	1.25	0.27	1.03	0.00
24.00	1.25	0.27	1.03	0.00
24.20	1.25	0.27	1.03	0.00
24.40	1.25	0.27	1.03	0.00
24.60	1.25	0.27	1.03	0.00
24.80	1.25	0.27	1.03	0.00
25.00	1.25	0.27	1.03	0.00
25.20	1.25	0.27	1.03	0.00
25.40	1.25	0.27	1.03	0.00
25.60	1.25	0.27	1.03	0.00
25.80	1.25	0.27	1.03	0.00
26.00	1.25	0.27	1.03	0.00
26.20	1.25	0.27	1.03	0.00
26.40	1.25	0.27	1.03	0.00
26.60	1.25	0.27	1.03	0.00
26.80	1.25	0.27	1.03	0.00
27.00	1.25	0.27	1.03	0.00
27.20	1.25	0.27	1.03	0.00
27.40	1.25	0.27	1.03	0.00
27.60	1.25	0.27	1.03	0.00
27.80	1.25	0.27	1.03	0.00
28.00	1.25	0.27	1.03	0.00
28.20	1.25	0.27	1.03	0.00
28.40	1.25	0.27	1.03	0.00
28.60	1.25	0.27	1.03	0.00
28.80	1.25	0.27	1.03	0.00
29.00	1.25	0.27	1.03	0.00
29.20	1.25	0.27	1.03	0.00
29.40	1.25	0.27	1.03	0.00
29.60	1.25	0.27	1.03	0.00
29.80	1.25	0.27	1.03	0.00
30.00	1.25	0.27	1.03	0.00
30.20	1.25	0.27	1.03	0.00
30.40	1.25	0.27	1.03	0.00
30.60	1.25	0.27	1.03	0.00
30.80	1.25	0.27	1.03	0.00
31.00	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.27	1.03	0.00
31.40	1.25	0.27	1.03	0.00
31.60	1.25	0.27	1.03	0.00
31.80	1.25	0.27	1.03	0.00
32.00	1.25	0.27	1.03	0.00
32.20	1.25	0.27	1.03	0.00
32.40	1.25	0.27	1.03	0.00
32.60	1.25	0.27	1.03	0.00
32.80	1.25	0.27	1.03	0.00
33.00	1.25	0.27	1.03	0.00
33.20	1.25	0.27	1.03	0.00
33.40	1.25	0.27	1.03	0.00
33.60	1.25	0.27	1.03	0.00
33.80	1.25	0.27	1.03	0.00
34.00	1.25	0.27	1.03	0.00
34.20	1.25	0.27	1.03	0.00
34.40	1.25	0.27	1.03	0.00
34.60	1.25	0.27	1.03	0.00
34.80	1.25	0.27	1.03	0.00
35.00	1.25	0.27	1.03	0.00
35.20	1.25	0.27	1.03	0.00
35.40	1.25	0.27	1.03	0.00
35.60	1.25	0.27	1.03	0.00
35.80	1.25	0.27	1.03	0.00
36.00	1.25	0.27	1.03	0.00
36.20	1.25	0.27	1.03	0.00
36.40	1.25	0.27	1.03	0.00
36.60	1.25	0.27	1.03	0.00
36.80	1.25	0.27	1.03	0.00
37.00	1.25	0.27	1.03	0.00
37.20	1.25	0.27	1.03	0.00
37.40	1.25	0.27	1.03	0.00
37.60	1.25	0.27	1.03	0.00
37.80	1.25	0.27	1.03	0.00
38.00	1.25	0.27	1.03	0.00
38.20	1.25	0.27	1.03	0.00
38.40	1.25	0.27	1.03	0.00
38.60	1.25	0.27	1.03	0.00
38.80	1.25	0.27	1.03	0.00
39.00	1.25	0.27	1.03	0.00
39.20	1.25	0.27	1.03	0.00
39.40	1.25	0.27	1.03	0.00
39.60	1.25	0.27	1.03	0.00
39.80	1.25	0.27	1.03	0.00
40.00	1.25	0.27	1.03	0.00
40.20	1.25	0.27	1.03	0.00
40.40	1.25	0.27	1.03	0.00
40.60	1.25	0.27	1.03	0.00
40.80	1.25	0.27	1.03	0.00
41.00	1.25	0.27	1.03	0.00
41.20	1.25	0.27	1.03	0.00
41.40	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.27	1.03	0.00
41.80	1.25	0.27	1.03	0.00
42.00	1.25	0.27	1.03	0.00
42.20	1.25	0.27	1.03	0.00
42.40	1.25	0.27	1.03	0.00
42.60	1.25	0.27	1.03	0.00
42.80	1.25	0.27	1.03	0.00
43.00	1.25	0.27	1.03	0.00
43.20	1.25	0.27	1.03	0.00
43.40	1.25	0.27	1.03	0.00
43.60	1.25	0.27	1.03	0.00
43.80	1.25	0.27	1.03	0.00
44.00	1.25	0.27	1.03	0.00
44.20	1.25	0.27	1.03	0.00
44.40	1.25	0.27	1.03	0.00
44.60	1.25	0.27	1.03	0.00
44.80	1.25	0.27	1.03	0.00
45.00	1.25	0.27	1.03	0.00
45.20	1.25	0.27	1.03	0.00
45.40	1.25	0.27	1.03	0.00
45.60	1.25	0.27	1.03	0.00
45.80	1.25	0.27	1.03	0.00
46.00	1.25	0.27	1.03	0.00
46.20	1.25	0.27	1.03	0.00
46.40	1.25	0.27	1.03	0.00
46.60	1.25	0.27	1.03	0.00
46.80	1.25	0.27	1.03	0.00
47.00	1.25	0.27	1.03	0.00
47.20	1.25	0.27	1.03	0.00
47.40	1.25	0.27	1.03	0.00
47.60	1.25	0.27	1.03	0.00
47.80	1.25	0.27	1.03	0.00
48.00	1.25	0.27	1.03	0.00
48.20	1.25	0.27	1.03	0.00
48.40	1.25	0.27	1.03	0.00
48.60	1.25	0.27	1.03	0.00
48.80	1.25	0.27	1.03	0.00
49.00	1.25	0.27	1.03	0.00
49.20	1.25	0.27	1.03	0.00
49.40	1.25	0.27	1.03	0.00
49.60	1.25	0.27	1.03	0.00
49.80	1.25	0.27	1.03	0.00
50.00	1.25	0.27	1.03	0.00
50.20	1.25	0.27	1.03	0.00
50.40	1.25	0.27	1.03	0.00
50.60	1.25	0.27	1.03	0.00
50.80	1.25	0.27	1.03	0.00
51.00	1.25	0.27	1.03	0.00
51.20	1.25	0.27	1.03	0.00
51.40	1.25	0.27	1.03	0.00
51.60	1.25	0.27	1.03	0.00
51.80	1.25	0.27	1.03	0.00



**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.27	1.03	0.00
52.20	1.25	0.27	1.03	0.00
52.40	1.25	0.27	1.03	0.00
52.60	1.25	0.27	1.03	0.00
52.80	1.25	0.27	1.03	0.00
53.00	1.25	0.27	1.03	0.00
53.20	1.25	0.27	1.03	0.00
53.40	1.25	0.27	1.03	0.00
53.60	1.25	0.27	1.03	0.00
53.80	1.25	0.27	1.03	0.00
54.00	1.25	0.27	1.03	0.00
54.20	1.25	0.27	1.03	0.00
54.40	1.25	0.27	1.03	0.00
54.60	1.25	0.27	1.03	0.00
54.80	1.25	0.27	1.03	0.00
55.00	1.25	0.27	1.03	0.00
55.20	1.25	0.27	1.03	0.00
55.40	1.25	0.27	1.03	0.00
55.60	1.25	0.27	1.03	0.00
55.80	1.25	0.27	1.03	0.00
56.00	1.25	0.27	1.03	0.00
56.20	1.25	0.27	1.03	0.00
56.40	1.25	0.27	1.03	0.00
56.60	1.25	0.27	1.03	0.00
56.80	1.25	0.27	1.03	0.00
57.00	1.25	0.27	1.03	0.00
57.20	1.25	0.27	1.03	0.00
57.40	1.25	0.27	1.03	0.00
57.60	1.25	0.27	1.03	0.00
57.80	1.25	0.27	1.03	0.00
58.00	1.25	0.27	1.03	0.00
58.20	1.25	0.27	1.03	0.00
58.40	1.25	0.27	1.03	0.00
58.60	1.25	0.27	1.03	0.00
58.80	1.25	0.27	1.03	0.00
59.00	1.25	0.27	1.03	0.00
59.20	1.25	0.27	1.03	0.00
59.40	1.25	0.27	1.03	0.00
59.60	1.25	0.27	1.03	0.00
59.80	1.25	0.27	1.03	0.00
60.00	1.25	0.27	1.03	0.00
60.20	1.25	0.27	1.03	0.00
60.40	1.25	0.27	1.03	0.00
60.60	1.25	0.27	1.03	0.00
60.80	1.25	0.27	1.03	0.00
61.00	1.25	0.27	1.03	0.00
61.20	1.25	0.27	1.03	0.00
61.40	1.25	0.27	1.03	0.00
61.60	1.25	0.27	1.03	0.00
61.80	1.25	0.27	1.03	0.00
62.00	1.25	0.27	1.03	0.00
62.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.27	1.03	0.00
62.60	1.25	0.27	1.03	0.00
62.80	1.25	0.27	1.03	0.00
63.00	1.25	0.27	1.03	0.00
63.20	1.25	0.27	1.03	0.00
63.40	1.25	0.27	1.03	0.00
63.60	1.25	0.27	1.03	0.00
63.80	1.25	0.27	1.03	0.00
64.00	1.25	0.27	1.03	0.00
64.20	1.25	0.27	1.03	0.00
64.40	1.25	0.27	1.03	0.00
64.60	1.25	0.27	1.03	0.00
64.80	1.25	0.27	1.03	0.00
65.00	1.25	0.27	1.03	0.00
65.20	1.25	0.27	1.03	0.00
65.40	1.25	0.27	1.03	0.00
65.60	1.25	0.27	1.03	0.00
65.80	1.25	0.27	1.03	0.00
66.00	1.25	0.27	1.03	0.00
66.20	1.25	0.27	1.03	0.00
66.40	1.25	0.27	1.03	0.00
66.60	1.25	0.27	1.03	0.00
66.80	1.25	0.27	1.03	0.00
67.00	1.25	0.27	1.03	0.00
67.20	1.25	0.27	1.03	0.00
67.40	1.25	0.27	1.03	0.00
67.60	1.25	0.27	1.03	0.00
67.80	1.25	0.27	1.03	0.00
68.00	1.25	0.27	1.03	0.00
68.20	1.25	0.27	1.03	0.00
68.40	1.25	0.27	1.03	0.00
68.60	1.25	0.27	1.03	0.00
68.80	1.25	0.27	1.03	0.00
69.00	1.25	0.27	1.03	0.00
69.20	1.25	0.27	1.03	0.00
69.40	1.25	0.27	1.03	0.00
69.60	1.25	0.27	1.03	0.00
69.80	1.25	0.27	1.03	0.00
70.00	1.25	0.27	1.03	0.00
70.20	1.25	0.27	1.03	0.00
70.40	1.25	0.27	1.03	0.00
70.60	1.25	0.27	1.03	0.00
70.80	1.25	0.27	1.03	0.00
71.00	1.25	0.27	1.03	0.00
71.20	1.25	0.27	1.03	0.00
71.40	1.25	0.27	1.03	0.00
71.60	1.25	0.27	1.03	0.00
71.80	1.25	0.27	1.03	0.00
72.00	1.25	0.27	1.03	0.00

**Summary for Subcatchment P-1C-9: Area 9**

Runoff = 0.36 cfs @ 1.09 hrs, Volume= 408 cf, Depth= 0.60"  
 Routed to Pond PV-9 : Pervious Pavers 9

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NJ DEP 2-hr WQV Rainfall=1.25"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 9c1-9c2</b> Grass: Short n= 0.150 P2= 3.54"

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-9: Area 9**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.07	0.00	0.00	0.00
0.60	0.14	0.00	0.03	0.02
0.80	0.23	0.00	0.09	0.04
1.00	0.63	0.03	0.43	<b>0.28</b>
1.20	1.02	0.16	0.81	<b>0.11</b>
1.40	1.11	0.20	0.90	0.05
1.60	1.18	0.24	0.97	0.04
1.80	1.23	0.26	1.02	0.02
2.00	<b>1.25</b>	<b>0.27</b>	<b>1.03</b>	0.01
2.20	1.25	0.27	1.03	0.00
2.40	1.25	0.27	1.03	0.00
2.60	1.25	0.27	1.03	0.00
2.80	1.25	0.27	1.03	0.00
3.00	1.25	0.27	1.03	0.00
3.20	1.25	0.27	1.03	0.00
3.40	1.25	0.27	1.03	0.00
3.60	1.25	0.27	1.03	0.00
3.80	1.25	0.27	1.03	0.00
4.00	1.25	0.27	1.03	0.00
4.20	1.25	0.27	1.03	0.00
4.40	1.25	0.27	1.03	0.00
4.60	1.25	0.27	1.03	0.00
4.80	1.25	0.27	1.03	0.00
5.00	1.25	0.27	1.03	0.00
5.20	1.25	0.27	1.03	0.00
5.40	1.25	0.27	1.03	0.00
5.60	1.25	0.27	1.03	0.00
5.80	1.25	0.27	1.03	0.00
6.00	1.25	0.27	1.03	0.00
6.20	1.25	0.27	1.03	0.00
6.40	1.25	0.27	1.03	0.00
6.60	1.25	0.27	1.03	0.00
6.80	1.25	0.27	1.03	0.00
7.00	1.25	0.27	1.03	0.00
7.20	1.25	0.27	1.03	0.00
7.40	1.25	0.27	1.03	0.00
7.60	1.25	0.27	1.03	0.00
7.80	1.25	0.27	1.03	0.00
8.00	1.25	0.27	1.03	0.00
8.20	1.25	0.27	1.03	0.00
8.40	1.25	0.27	1.03	0.00
8.60	1.25	0.27	1.03	0.00
8.80	1.25	0.27	1.03	0.00
9.00	1.25	0.27	1.03	0.00
9.20	1.25	0.27	1.03	0.00
9.40	1.25	0.27	1.03	0.00
9.60	1.25	0.27	1.03	0.00
9.80	1.25	0.27	1.03	0.00
10.00	1.25	0.27	1.03	0.00
10.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.25	0.27	1.03	0.00
10.60	1.25	0.27	1.03	0.00
10.80	1.25	0.27	1.03	0.00
11.00	1.25	0.27	1.03	0.00
11.20	1.25	0.27	1.03	0.00
11.40	1.25	0.27	1.03	0.00
11.60	1.25	0.27	1.03	0.00
11.80	1.25	0.27	1.03	0.00
12.00	1.25	0.27	1.03	0.00
12.20	1.25	0.27	1.03	0.00
12.40	1.25	0.27	1.03	0.00
12.60	1.25	0.27	1.03	0.00
12.80	1.25	0.27	1.03	0.00
13.00	1.25	0.27	1.03	0.00
13.20	1.25	0.27	1.03	0.00
13.40	1.25	0.27	1.03	0.00
13.60	1.25	0.27	1.03	0.00
13.80	1.25	0.27	1.03	0.00
14.00	1.25	0.27	1.03	0.00
14.20	1.25	0.27	1.03	0.00
14.40	1.25	0.27	1.03	0.00
14.60	1.25	0.27	1.03	0.00
14.80	1.25	0.27	1.03	0.00
15.00	1.25	0.27	1.03	0.00
15.20	1.25	0.27	1.03	0.00
15.40	1.25	0.27	1.03	0.00
15.60	1.25	0.27	1.03	0.00
15.80	1.25	0.27	1.03	0.00
16.00	1.25	0.27	1.03	0.00
16.20	1.25	0.27	1.03	0.00
16.40	1.25	0.27	1.03	0.00
16.60	1.25	0.27	1.03	0.00
16.80	1.25	0.27	1.03	0.00
17.00	1.25	0.27	1.03	0.00
17.20	1.25	0.27	1.03	0.00
17.40	1.25	0.27	1.03	0.00
17.60	1.25	0.27	1.03	0.00
17.80	1.25	0.27	1.03	0.00
18.00	1.25	0.27	1.03	0.00
18.20	1.25	0.27	1.03	0.00
18.40	1.25	0.27	1.03	0.00
18.60	1.25	0.27	1.03	0.00
18.80	1.25	0.27	1.03	0.00
19.00	1.25	0.27	1.03	0.00
19.20	1.25	0.27	1.03	0.00
19.40	1.25	0.27	1.03	0.00
19.60	1.25	0.27	1.03	0.00
19.80	1.25	0.27	1.03	0.00
20.00	1.25	0.27	1.03	0.00
20.20	1.25	0.27	1.03	0.00
20.40	1.25	0.27	1.03	0.00
20.60	1.25	0.27	1.03	0.00

**2023-05-17-POI-1 - Pavers 7-11**

NJ DEP 2-hr WQV Rainfall=1.25"

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**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	1.25	0.27	1.03	0.00
21.00	1.25	0.27	1.03	0.00
21.20	1.25	0.27	1.03	0.00
21.40	1.25	0.27	1.03	0.00
21.60	1.25	0.27	1.03	0.00
21.80	1.25	0.27	1.03	0.00
22.00	1.25	0.27	1.03	0.00
22.20	1.25	0.27	1.03	0.00
22.40	1.25	0.27	1.03	0.00
22.60	1.25	0.27	1.03	0.00
22.80	1.25	0.27	1.03	0.00
23.00	1.25	0.27	1.03	0.00
23.20	1.25	0.27	1.03	0.00
23.40	1.25	0.27	1.03	0.00
23.60	1.25	0.27	1.03	0.00
23.80	1.25	0.27	1.03	0.00
24.00	1.25	0.27	1.03	0.00
24.20	1.25	0.27	1.03	0.00
24.40	1.25	0.27	1.03	0.00
24.60	1.25	0.27	1.03	0.00
24.80	1.25	0.27	1.03	0.00
25.00	1.25	0.27	1.03	0.00
25.20	1.25	0.27	1.03	0.00
25.40	1.25	0.27	1.03	0.00
25.60	1.25	0.27	1.03	0.00
25.80	1.25	0.27	1.03	0.00
26.00	1.25	0.27	1.03	0.00
26.20	1.25	0.27	1.03	0.00
26.40	1.25	0.27	1.03	0.00
26.60	1.25	0.27	1.03	0.00
26.80	1.25	0.27	1.03	0.00
27.00	1.25	0.27	1.03	0.00
27.20	1.25	0.27	1.03	0.00
27.40	1.25	0.27	1.03	0.00
27.60	1.25	0.27	1.03	0.00
27.80	1.25	0.27	1.03	0.00
28.00	1.25	0.27	1.03	0.00
28.20	1.25	0.27	1.03	0.00
28.40	1.25	0.27	1.03	0.00
28.60	1.25	0.27	1.03	0.00
28.80	1.25	0.27	1.03	0.00
29.00	1.25	0.27	1.03	0.00
29.20	1.25	0.27	1.03	0.00
29.40	1.25	0.27	1.03	0.00
29.60	1.25	0.27	1.03	0.00
29.80	1.25	0.27	1.03	0.00
30.00	1.25	0.27	1.03	0.00
30.20	1.25	0.27	1.03	0.00
30.40	1.25	0.27	1.03	0.00
30.60	1.25	0.27	1.03	0.00
30.80	1.25	0.27	1.03	0.00
31.00	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	1.25	0.27	1.03	0.00
31.40	1.25	0.27	1.03	0.00
31.60	1.25	0.27	1.03	0.00
31.80	1.25	0.27	1.03	0.00
32.00	1.25	0.27	1.03	0.00
32.20	1.25	0.27	1.03	0.00
32.40	1.25	0.27	1.03	0.00
32.60	1.25	0.27	1.03	0.00
32.80	1.25	0.27	1.03	0.00
33.00	1.25	0.27	1.03	0.00
33.20	1.25	0.27	1.03	0.00
33.40	1.25	0.27	1.03	0.00
33.60	1.25	0.27	1.03	0.00
33.80	1.25	0.27	1.03	0.00
34.00	1.25	0.27	1.03	0.00
34.20	1.25	0.27	1.03	0.00
34.40	1.25	0.27	1.03	0.00
34.60	1.25	0.27	1.03	0.00
34.80	1.25	0.27	1.03	0.00
35.00	1.25	0.27	1.03	0.00
35.20	1.25	0.27	1.03	0.00
35.40	1.25	0.27	1.03	0.00
35.60	1.25	0.27	1.03	0.00
35.80	1.25	0.27	1.03	0.00
36.00	1.25	0.27	1.03	0.00
36.20	1.25	0.27	1.03	0.00
36.40	1.25	0.27	1.03	0.00
36.60	1.25	0.27	1.03	0.00
36.80	1.25	0.27	1.03	0.00
37.00	1.25	0.27	1.03	0.00
37.20	1.25	0.27	1.03	0.00
37.40	1.25	0.27	1.03	0.00
37.60	1.25	0.27	1.03	0.00
37.80	1.25	0.27	1.03	0.00
38.00	1.25	0.27	1.03	0.00
38.20	1.25	0.27	1.03	0.00
38.40	1.25	0.27	1.03	0.00
38.60	1.25	0.27	1.03	0.00
38.80	1.25	0.27	1.03	0.00
39.00	1.25	0.27	1.03	0.00
39.20	1.25	0.27	1.03	0.00
39.40	1.25	0.27	1.03	0.00
39.60	1.25	0.27	1.03	0.00
39.80	1.25	0.27	1.03	0.00
40.00	1.25	0.27	1.03	0.00
40.20	1.25	0.27	1.03	0.00
40.40	1.25	0.27	1.03	0.00
40.60	1.25	0.27	1.03	0.00
40.80	1.25	0.27	1.03	0.00
41.00	1.25	0.27	1.03	0.00
41.20	1.25	0.27	1.03	0.00
41.40	1.25	0.27	1.03	0.00

Hydrograph for Subcatchment P-1C-9: Area 9 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	1.25	0.27	1.03	0.00
41.80	1.25	0.27	1.03	0.00
42.00	1.25	0.27	1.03	0.00
42.20	1.25	0.27	1.03	0.00
42.40	1.25	0.27	1.03	0.00
42.60	1.25	0.27	1.03	0.00
42.80	1.25	0.27	1.03	0.00
43.00	1.25	0.27	1.03	0.00
43.20	1.25	0.27	1.03	0.00
43.40	1.25	0.27	1.03	0.00
43.60	1.25	0.27	1.03	0.00
43.80	1.25	0.27	1.03	0.00
44.00	1.25	0.27	1.03	0.00
44.20	1.25	0.27	1.03	0.00
44.40	1.25	0.27	1.03	0.00
44.60	1.25	0.27	1.03	0.00
44.80	1.25	0.27	1.03	0.00
45.00	1.25	0.27	1.03	0.00
45.20	1.25	0.27	1.03	0.00
45.40	1.25	0.27	1.03	0.00
45.60	1.25	0.27	1.03	0.00
45.80	1.25	0.27	1.03	0.00
46.00	1.25	0.27	1.03	0.00
46.20	1.25	0.27	1.03	0.00
46.40	1.25	0.27	1.03	0.00
46.60	1.25	0.27	1.03	0.00
46.80	1.25	0.27	1.03	0.00
47.00	1.25	0.27	1.03	0.00
47.20	1.25	0.27	1.03	0.00
47.40	1.25	0.27	1.03	0.00
47.60	1.25	0.27	1.03	0.00
47.80	1.25	0.27	1.03	0.00
48.00	1.25	0.27	1.03	0.00
48.20	1.25	0.27	1.03	0.00
48.40	1.25	0.27	1.03	0.00
48.60	1.25	0.27	1.03	0.00
48.80	1.25	0.27	1.03	0.00
49.00	1.25	0.27	1.03	0.00
49.20	1.25	0.27	1.03	0.00
49.40	1.25	0.27	1.03	0.00
49.60	1.25	0.27	1.03	0.00
49.80	1.25	0.27	1.03	0.00
50.00	1.25	0.27	1.03	0.00
50.20	1.25	0.27	1.03	0.00
50.40	1.25	0.27	1.03	0.00
50.60	1.25	0.27	1.03	0.00
50.80	1.25	0.27	1.03	0.00
51.00	1.25	0.27	1.03	0.00
51.20	1.25	0.27	1.03	0.00
51.40	1.25	0.27	1.03	0.00
51.60	1.25	0.27	1.03	0.00
51.80	1.25	0.27	1.03	0.00



**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	1.25	0.27	1.03	0.00
52.20	1.25	0.27	1.03	0.00
52.40	1.25	0.27	1.03	0.00
52.60	1.25	0.27	1.03	0.00
52.80	1.25	0.27	1.03	0.00
53.00	1.25	0.27	1.03	0.00
53.20	1.25	0.27	1.03	0.00
53.40	1.25	0.27	1.03	0.00
53.60	1.25	0.27	1.03	0.00
53.80	1.25	0.27	1.03	0.00
54.00	1.25	0.27	1.03	0.00
54.20	1.25	0.27	1.03	0.00
54.40	1.25	0.27	1.03	0.00
54.60	1.25	0.27	1.03	0.00
54.80	1.25	0.27	1.03	0.00
55.00	1.25	0.27	1.03	0.00
55.20	1.25	0.27	1.03	0.00
55.40	1.25	0.27	1.03	0.00
55.60	1.25	0.27	1.03	0.00
55.80	1.25	0.27	1.03	0.00
56.00	1.25	0.27	1.03	0.00
56.20	1.25	0.27	1.03	0.00
56.40	1.25	0.27	1.03	0.00
56.60	1.25	0.27	1.03	0.00
56.80	1.25	0.27	1.03	0.00
57.00	1.25	0.27	1.03	0.00
57.20	1.25	0.27	1.03	0.00
57.40	1.25	0.27	1.03	0.00
57.60	1.25	0.27	1.03	0.00
57.80	1.25	0.27	1.03	0.00
58.00	1.25	0.27	1.03	0.00
58.20	1.25	0.27	1.03	0.00
58.40	1.25	0.27	1.03	0.00
58.60	1.25	0.27	1.03	0.00
58.80	1.25	0.27	1.03	0.00
59.00	1.25	0.27	1.03	0.00
59.20	1.25	0.27	1.03	0.00
59.40	1.25	0.27	1.03	0.00
59.60	1.25	0.27	1.03	0.00
59.80	1.25	0.27	1.03	0.00
60.00	1.25	0.27	1.03	0.00
60.20	1.25	0.27	1.03	0.00
60.40	1.25	0.27	1.03	0.00
60.60	1.25	0.27	1.03	0.00
60.80	1.25	0.27	1.03	0.00
61.00	1.25	0.27	1.03	0.00
61.20	1.25	0.27	1.03	0.00
61.40	1.25	0.27	1.03	0.00
61.60	1.25	0.27	1.03	0.00
61.80	1.25	0.27	1.03	0.00
62.00	1.25	0.27	1.03	0.00
62.20	1.25	0.27	1.03	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	1.25	0.27	1.03	0.00
62.60	1.25	0.27	1.03	0.00
62.80	1.25	0.27	1.03	0.00
63.00	1.25	0.27	1.03	0.00
63.20	1.25	0.27	1.03	0.00
63.40	1.25	0.27	1.03	0.00
63.60	1.25	0.27	1.03	0.00
63.80	1.25	0.27	1.03	0.00
64.00	1.25	0.27	1.03	0.00
64.20	1.25	0.27	1.03	0.00
64.40	1.25	0.27	1.03	0.00
64.60	1.25	0.27	1.03	0.00
64.80	1.25	0.27	1.03	0.00
65.00	1.25	0.27	1.03	0.00
65.20	1.25	0.27	1.03	0.00
65.40	1.25	0.27	1.03	0.00
65.60	1.25	0.27	1.03	0.00
65.80	1.25	0.27	1.03	0.00
66.00	1.25	0.27	1.03	0.00
66.20	1.25	0.27	1.03	0.00
66.40	1.25	0.27	1.03	0.00
66.60	1.25	0.27	1.03	0.00
66.80	1.25	0.27	1.03	0.00
67.00	1.25	0.27	1.03	0.00
67.20	1.25	0.27	1.03	0.00
67.40	1.25	0.27	1.03	0.00
67.60	1.25	0.27	1.03	0.00
67.80	1.25	0.27	1.03	0.00
68.00	1.25	0.27	1.03	0.00
68.20	1.25	0.27	1.03	0.00
68.40	1.25	0.27	1.03	0.00
68.60	1.25	0.27	1.03	0.00
68.80	1.25	0.27	1.03	0.00
69.00	1.25	0.27	1.03	0.00
69.20	1.25	0.27	1.03	0.00
69.40	1.25	0.27	1.03	0.00
69.60	1.25	0.27	1.03	0.00
69.80	1.25	0.27	1.03	0.00
70.00	1.25	0.27	1.03	0.00
70.20	1.25	0.27	1.03	0.00
70.40	1.25	0.27	1.03	0.00
70.60	1.25	0.27	1.03	0.00
70.80	1.25	0.27	1.03	0.00
71.00	1.25	0.27	1.03	0.00
71.20	1.25	0.27	1.03	0.00
71.40	1.25	0.27	1.03	0.00
71.60	1.25	0.27	1.03	0.00
71.80	1.25	0.27	1.03	0.00
72.00	1.25	0.27	1.03	0.00

**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 0.56" for WQV event  
 Inflow = 0.41 cfs @ 1.11 hrs, Volume= 516 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.99' @ 2.31 hrs Surf.Area= 3,564 sf Storage= 516 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	542.63'	3,208 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 8,019 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.63	3,564	0	0
544.88	3,564	8,019	8,019

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.30'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.63' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.74 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

**Hydrograph for Pond PV-10: Pervious Pavers 10**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.63	<b>0.00</b>
0.20	0.00	0	542.63	0.00
0.40	0.00	0	542.63	0.00
0.60	0.02	7	542.63	0.00
0.80	0.03	24	542.65	0.00
1.00	<b>0.23</b>	87	542.69	0.00
1.20	<b>0.22</b>	324	542.86	0.00
1.40	0.07	411	542.92	0.00
1.60	0.05	457	542.95	0.00
1.80	0.04	495	542.98	0.00
2.00	0.02	511	542.99	0.00
2.20	0.00	<b>516</b>	<b>542.99</b>	0.00
2.40	0.00	<b>516</b>	<b>542.99</b>	0.00
2.60	0.00	516	542.99	0.00
2.80	0.00	516	542.99	0.00
3.00	0.00	516	542.99	0.00
3.20	0.00	516	542.99	0.00
3.40	0.00	516	542.99	0.00
3.60	0.00	516	542.99	0.00
3.80	0.00	516	542.99	0.00
4.00	0.00	516	542.99	0.00
4.20	0.00	516	542.99	0.00
4.40	0.00	516	542.99	0.00
4.60	0.00	516	542.99	0.00
4.80	0.00	516	542.99	0.00
5.00	0.00	516	542.99	0.00
5.20	0.00	516	542.99	0.00
5.40	0.00	516	542.99	0.00
5.60	0.00	516	542.99	0.00
5.80	0.00	516	542.99	0.00
6.00	0.00	516	542.99	0.00
6.20	0.00	516	542.99	0.00
6.40	0.00	516	542.99	0.00
6.60	0.00	516	542.99	0.00
6.80	0.00	516	542.99	0.00
7.00	0.00	516	542.99	0.00
7.20	0.00	516	542.99	0.00
7.40	0.00	516	542.99	0.00
7.60	0.00	516	542.99	0.00
7.80	0.00	516	542.99	0.00
8.00	0.00	516	542.99	0.00
8.20	0.00	516	542.99	0.00
8.40	0.00	516	542.99	0.00
8.60	0.00	516	542.99	0.00
8.80	0.00	516	542.99	0.00
9.00	0.00	516	542.99	0.00
9.20	0.00	516	542.99	0.00
9.40	0.00	516	542.99	0.00
9.60	0.00	516	542.99	0.00
9.80	0.00	516	542.99	0.00
10.00	0.00	516	542.99	0.00
10.20	0.00	516	542.99	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	516	542.99	0.00
10.60	0.00	516	542.99	0.00
10.80	0.00	516	542.99	0.00
11.00	0.00	516	542.99	0.00
11.20	0.00	516	542.99	0.00
11.40	0.00	516	542.99	0.00
11.60	0.00	516	542.99	0.00
11.80	0.00	516	542.99	0.00
12.00	0.00	516	542.99	0.00
12.20	0.00	516	542.99	0.00
12.40	0.00	516	542.99	0.00
12.60	0.00	516	542.99	0.00
12.80	0.00	516	542.99	0.00
13.00	0.00	516	542.99	0.00
13.20	0.00	516	542.99	0.00
13.40	0.00	516	542.99	0.00
13.60	0.00	516	542.99	0.00
13.80	0.00	516	542.99	0.00
14.00	0.00	516	542.99	0.00
14.20	0.00	516	542.99	0.00
14.40	0.00	516	542.99	0.00
14.60	0.00	516	542.99	0.00
14.80	0.00	516	542.99	0.00
15.00	0.00	516	542.99	0.00
15.20	0.00	516	542.99	0.00
15.40	0.00	516	542.99	0.00
15.60	0.00	516	542.99	0.00
15.80	0.00	516	542.99	0.00
16.00	0.00	516	542.99	0.00
16.20	0.00	516	542.99	0.00
16.40	0.00	516	542.99	0.00
16.60	0.00	516	542.99	0.00
16.80	0.00	516	542.99	0.00
17.00	0.00	516	542.99	0.00
17.20	0.00	516	542.99	0.00
17.40	0.00	516	542.99	0.00
17.60	0.00	516	542.99	0.00
17.80	0.00	516	542.99	0.00
18.00	0.00	516	542.99	0.00
18.20	0.00	516	542.99	0.00
18.40	0.00	516	542.99	0.00
18.60	0.00	516	542.99	0.00
18.80	0.00	516	542.99	0.00
19.00	0.00	516	542.99	0.00
19.20	0.00	516	542.99	0.00
19.40	0.00	516	542.99	0.00
19.60	0.00	516	542.99	0.00
19.80	0.00	516	542.99	0.00
20.00	0.00	516	542.99	0.00
20.20	0.00	516	542.99	0.00
20.40	0.00	516	542.99	0.00
20.60	0.00	516	542.99	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	516	542.99	0.00
21.00	0.00	516	542.99	0.00
21.20	0.00	516	542.99	0.00
21.40	0.00	516	542.99	0.00
21.60	0.00	516	542.99	0.00
21.80	0.00	516	542.99	0.00
22.00	0.00	516	542.99	0.00
22.20	0.00	516	542.99	0.00
22.40	0.00	516	542.99	0.00
22.60	0.00	516	542.99	0.00
22.80	0.00	516	542.99	0.00
23.00	0.00	516	542.99	0.00
23.20	0.00	516	542.99	0.00
23.40	0.00	516	542.99	0.00
23.60	0.00	516	542.99	0.00
23.80	0.00	516	542.99	0.00
24.00	0.00	516	542.99	0.00
24.20	0.00	516	542.99	0.00
24.40	0.00	516	542.99	0.00
24.60	0.00	516	542.99	0.00
24.80	0.00	516	542.99	0.00
25.00	0.00	516	542.99	0.00
25.20	0.00	516	542.99	0.00
25.40	0.00	516	542.99	0.00
25.60	0.00	516	542.99	0.00
25.80	0.00	516	542.99	0.00
26.00	0.00	516	542.99	0.00
26.20	0.00	516	542.99	0.00
26.40	0.00	516	542.99	0.00
26.60	0.00	516	542.99	0.00
26.80	0.00	516	542.99	0.00
27.00	0.00	516	542.99	0.00
27.20	0.00	516	542.99	0.00
27.40	0.00	516	542.99	0.00
27.60	0.00	516	542.99	0.00
27.80	0.00	516	542.99	0.00
28.00	0.00	516	542.99	0.00
28.20	0.00	516	542.99	0.00
28.40	0.00	516	542.99	0.00
28.60	0.00	516	542.99	0.00
28.80	0.00	516	542.99	0.00
29.00	0.00	516	542.99	0.00
29.20	0.00	516	542.99	0.00
29.40	0.00	516	542.99	0.00
29.60	0.00	516	542.99	0.00
29.80	0.00	516	542.99	0.00
30.00	0.00	516	542.99	0.00
30.20	0.00	516	542.99	0.00
30.40	0.00	516	542.99	0.00
30.60	0.00	516	542.99	0.00
30.80	0.00	516	542.99	0.00
31.00	0.00	516	542.99	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	516	542.99	0.00
31.40	0.00	516	542.99	0.00
31.60	0.00	516	542.99	0.00
31.80	0.00	516	542.99	0.00
32.00	0.00	516	542.99	0.00
32.20	0.00	516	542.99	0.00
32.40	0.00	516	542.99	0.00
32.60	0.00	516	542.99	0.00
32.80	0.00	516	542.99	0.00
33.00	0.00	516	542.99	0.00
33.20	0.00	516	542.99	0.00
33.40	0.00	516	542.99	0.00
33.60	0.00	516	542.99	0.00
33.80	0.00	516	542.99	0.00
34.00	0.00	516	542.99	0.00
34.20	0.00	516	542.99	0.00
34.40	0.00	516	542.99	0.00
34.60	0.00	516	542.99	0.00
34.80	0.00	516	542.99	0.00
35.00	0.00	516	542.99	0.00
35.20	0.00	516	542.99	0.00
35.40	0.00	516	542.99	0.00
35.60	0.00	516	542.99	0.00
35.80	0.00	516	542.99	0.00
36.00	0.00	516	542.99	0.00
36.20	0.00	516	542.99	0.00
36.40	0.00	516	542.99	0.00
36.60	0.00	516	542.99	0.00
36.80	0.00	516	542.99	0.00
37.00	0.00	516	542.99	0.00
37.20	0.00	516	542.99	0.00
37.40	0.00	516	542.99	0.00
37.60	0.00	516	542.99	0.00
37.80	0.00	516	542.99	0.00
38.00	0.00	516	542.99	0.00
38.20	0.00	516	542.99	0.00
38.40	0.00	516	542.99	0.00
38.60	0.00	516	542.99	0.00
38.80	0.00	516	542.99	0.00
39.00	0.00	516	542.99	0.00
39.20	0.00	516	542.99	0.00
39.40	0.00	516	542.99	0.00
39.60	0.00	516	542.99	0.00
39.80	0.00	516	542.99	0.00
40.00	0.00	516	542.99	0.00
40.20	0.00	516	542.99	0.00
40.40	0.00	516	542.99	0.00
40.60	0.00	516	542.99	0.00
40.80	0.00	516	542.99	0.00
41.00	0.00	516	542.99	0.00
41.20	0.00	516	542.99	0.00
41.40	0.00	516	542.99	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	516	542.99	0.00
41.80	0.00	516	542.99	0.00
42.00	0.00	516	542.99	0.00
42.20	0.00	516	542.99	0.00
42.40	0.00	516	542.99	0.00
42.60	0.00	516	542.99	0.00
42.80	0.00	516	542.99	0.00
43.00	0.00	516	542.99	0.00
43.20	0.00	516	542.99	0.00
43.40	0.00	516	542.99	0.00
43.60	0.00	516	542.99	0.00
43.80	0.00	516	542.99	0.00
44.00	0.00	516	542.99	0.00
44.20	0.00	516	542.99	0.00
44.40	0.00	516	542.99	0.00
44.60	0.00	516	542.99	0.00
44.80	0.00	516	542.99	0.00
45.00	0.00	516	542.99	0.00
45.20	0.00	516	542.99	0.00
45.40	0.00	516	542.99	0.00
45.60	0.00	516	542.99	0.00
45.80	0.00	516	542.99	0.00
46.00	0.00	516	542.99	0.00
46.20	0.00	516	542.99	0.00
46.40	0.00	516	542.99	0.00
46.60	0.00	516	542.99	0.00
46.80	0.00	516	542.99	0.00
47.00	0.00	516	542.99	0.00
47.20	0.00	516	542.99	0.00
47.40	0.00	516	542.99	0.00
47.60	0.00	516	542.99	0.00
47.80	0.00	516	542.99	0.00
48.00	0.00	516	542.99	0.00
48.20	0.00	516	542.99	0.00
48.40	0.00	516	542.99	0.00
48.60	0.00	516	542.99	0.00
48.80	0.00	516	542.99	0.00
49.00	0.00	516	542.99	0.00
49.20	0.00	516	542.99	0.00
49.40	0.00	516	542.99	0.00
49.60	0.00	516	542.99	0.00
49.80	0.00	516	542.99	0.00
50.00	0.00	516	542.99	0.00
50.20	0.00	516	542.99	0.00
50.40	0.00	516	542.99	0.00
50.60	0.00	516	542.99	0.00
50.80	0.00	516	542.99	0.00
51.00	0.00	516	542.99	0.00
51.20	0.00	516	542.99	0.00
51.40	0.00	516	542.99	0.00
51.60	0.00	516	542.99	0.00
51.80	0.00	516	542.99	0.00



**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	516	542.99	0.00
52.20	0.00	516	542.99	0.00
52.40	0.00	516	542.99	0.00
52.60	0.00	516	542.99	0.00
52.80	0.00	516	542.99	0.00
53.00	0.00	516	542.99	0.00
53.20	0.00	516	542.99	0.00
53.40	0.00	516	542.99	0.00
53.60	0.00	516	542.99	0.00
53.80	0.00	516	542.99	0.00
54.00	0.00	516	542.99	0.00
54.20	0.00	516	542.99	0.00
54.40	0.00	516	542.99	0.00
54.60	0.00	516	542.99	0.00
54.80	0.00	516	542.99	0.00
55.00	0.00	516	542.99	0.00
55.20	0.00	516	542.99	0.00
55.40	0.00	516	542.99	0.00
55.60	0.00	516	542.99	0.00
55.80	0.00	516	542.99	0.00
56.00	0.00	516	542.99	0.00
56.20	0.00	516	542.99	0.00
56.40	0.00	516	542.99	0.00
56.60	0.00	516	542.99	0.00
56.80	0.00	516	542.99	0.00
57.00	0.00	516	542.99	0.00
57.20	0.00	516	542.99	0.00
57.40	0.00	516	542.99	0.00
57.60	0.00	516	542.99	0.00
57.80	0.00	516	542.99	0.00
58.00	0.00	516	542.99	0.00
58.20	0.00	516	542.99	0.00
58.40	0.00	516	542.99	0.00
58.60	0.00	516	542.99	0.00
58.80	0.00	516	542.99	0.00
59.00	0.00	516	542.99	0.00
59.20	0.00	516	542.99	0.00
59.40	0.00	516	542.99	0.00
59.60	0.00	516	542.99	0.00
59.80	0.00	516	542.99	0.00
60.00	0.00	516	542.99	0.00
60.20	0.00	516	542.99	0.00
60.40	0.00	516	542.99	0.00
60.60	0.00	516	542.99	0.00
60.80	0.00	516	542.99	0.00
61.00	0.00	516	542.99	0.00
61.20	0.00	516	542.99	0.00
61.40	0.00	516	542.99	0.00
61.60	0.00	516	542.99	0.00
61.80	0.00	516	542.99	0.00
62.00	0.00	516	542.99	0.00
62.20	0.00	516	542.99	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	516	542.99	0.00
62.60	0.00	516	542.99	0.00
62.80	0.00	516	542.99	0.00
63.00	0.00	516	542.99	0.00
63.20	0.00	516	542.99	0.00
63.40	0.00	516	542.99	0.00
63.60	0.00	516	542.99	0.00
63.80	0.00	516	542.99	0.00
64.00	0.00	516	542.99	0.00
64.20	0.00	516	542.99	0.00
64.40	0.00	516	542.99	0.00
64.60	0.00	516	542.99	0.00
64.80	0.00	516	542.99	0.00
65.00	0.00	516	542.99	0.00
65.20	0.00	516	542.99	0.00
65.40	0.00	516	542.99	0.00
65.60	0.00	516	542.99	0.00
65.80	0.00	516	542.99	0.00
66.00	0.00	516	542.99	0.00
66.20	0.00	516	542.99	0.00
66.40	0.00	516	542.99	0.00
66.60	0.00	516	542.99	0.00
66.80	0.00	516	542.99	0.00
67.00	0.00	516	542.99	0.00
67.20	0.00	516	542.99	0.00
67.40	0.00	516	542.99	0.00
67.60	0.00	516	542.99	0.00
67.80	0.00	516	542.99	0.00
68.00	0.00	516	542.99	0.00
68.20	0.00	516	542.99	0.00
68.40	0.00	516	542.99	0.00
68.60	0.00	516	542.99	0.00
68.80	0.00	516	542.99	0.00
69.00	0.00	516	542.99	0.00
69.20	0.00	516	542.99	0.00
69.40	0.00	516	542.99	0.00
69.60	0.00	516	542.99	0.00
69.80	0.00	516	542.99	0.00
70.00	0.00	516	542.99	0.00
70.20	0.00	516	542.99	0.00
70.40	0.00	516	542.99	0.00
70.60	0.00	516	542.99	0.00
70.80	0.00	516	542.99	0.00
71.00	0.00	516	542.99	0.00
71.20	0.00	516	542.99	0.00
71.40	0.00	516	542.99	0.00
71.60	0.00	516	542.99	0.00
71.80	0.00	516	542.99	0.00
72.00	0.00	516	542.99	0.00

**Stage-Area-Storage for Pond PV-10: Pervious Pavers 10**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.63	3,564	0	543.15	3,564	741
542.64	3,564	14	543.16	3,564	756
542.65	3,564	29	543.17	3,564	770
542.66	3,564	43	543.18	3,564	784
542.67	3,564	57	543.19	3,564	798
542.68	3,564	71	543.20	3,564	813
542.69	3,564	86	543.21	3,564	827
542.70	3,564	100	543.22	3,564	841
542.71	3,564	114	543.23	3,564	855
542.72	3,564	128	543.24	3,564	870
542.73	3,564	143	543.25	3,564	884
542.74	3,564	157	543.26	3,564	898
542.75	3,564	171	543.27	3,564	912
542.76	3,564	185	543.28	3,564	927
542.77	3,564	200	543.29	3,564	941
542.78	3,564	214	543.30	3,564	955
542.79	3,564	228	543.31	3,564	969
542.80	3,564	242	543.32	3,564	984
542.81	3,564	257	543.33	3,564	998
542.82	3,564	271	543.34	3,564	1,012
542.83	3,564	285	543.35	3,564	1,026
542.84	3,564	299	543.36	3,564	1,041
542.85	3,564	314	543.37	3,564	1,055
542.86	3,564	328	543.38	3,564	1,069
542.87	3,564	342	543.39	3,564	1,083
542.88	3,564	356	543.40	3,564	1,098
542.89	3,564	371	543.41	3,564	1,112
542.90	3,564	385	543.42	3,564	1,126
542.91	3,564	399	543.43	3,564	1,140
542.92	3,564	413	543.44	3,564	1,155
542.93	3,564	428	543.45	3,564	1,169
542.94	3,564	442	543.46	3,564	1,183
542.95	3,564	456	543.47	3,564	1,198
542.96	3,564	470	543.48	3,564	1,212
542.97	3,564	485	543.49	3,564	1,226
542.98	3,564	499	543.50	3,564	1,240
542.99	3,564	513	543.51	3,564	1,255
543.00	3,564	527	543.52	3,564	1,269
543.01	3,564	542	543.53	3,564	1,283
543.02	3,564	556	543.54	3,564	1,297
543.03	3,564	570	543.55	3,564	1,312
543.04	3,564	584	543.56	3,564	1,326
543.05	3,564	599	543.57	3,564	1,340
543.06	3,564	613	543.58	3,564	1,354
543.07	3,564	627	543.59	3,564	1,369
543.08	3,564	642	543.60	3,564	1,383
543.09	3,564	656	543.61	3,564	1,397
543.10	3,564	670	543.62	3,564	1,411
543.11	3,564	684	543.63	3,564	1,426
543.12	3,564	699	543.64	3,564	1,440
543.13	3,564	713	543.65	3,564	1,454
543.14	3,564	727	543.66	3,564	1,468

**Stage-Area-Storage for Pond PV-10: Pervious Pavers 10 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.67	3,564	1,483	544.19	3,564	2,224
543.68	3,564	1,497	544.20	3,564	2,238
543.69	3,564	1,511	544.21	3,564	2,252
543.70	3,564	1,525	544.22	3,564	2,267
543.71	3,564	1,540	544.23	3,564	2,281
543.72	3,564	1,554	544.24	3,564	2,295
543.73	3,564	1,568	544.25	3,564	2,309
543.74	3,564	1,582	544.26	3,564	2,324
543.75	3,564	1,597	544.27	3,564	2,338
543.76	3,564	1,611	544.28	3,564	2,352
543.77	3,564	1,625	544.29	3,564	2,366
543.78	3,564	1,639	544.30	3,564	2,381
543.79	3,564	1,654	544.31	3,564	2,395
543.80	3,564	1,668	544.32	3,564	2,409
543.81	3,564	1,682	544.33	3,564	2,424
543.82	3,564	1,696	544.34	3,564	2,438
543.83	3,564	1,711	544.35	3,564	2,452
543.84	3,564	1,725	544.36	3,564	2,466
543.85	3,564	1,739	544.37	3,564	2,481
543.86	3,564	1,753	544.38	3,564	2,495
543.87	3,564	1,768	544.39	3,564	2,509
543.88	3,564	1,782	544.40	3,564	2,523
543.89	3,564	1,796	544.41	3,564	2,538
543.90	3,564	1,811	544.42	3,564	2,552
543.91	3,564	1,825	544.43	3,564	2,566
543.92	3,564	1,839	544.44	3,564	2,580
543.93	3,564	1,853	544.45	3,564	2,595
543.94	3,564	1,868	544.46	3,564	2,609
543.95	3,564	1,882	544.47	3,564	2,623
543.96	3,564	1,896	544.48	3,564	2,637
543.97	3,564	1,910	544.49	3,564	2,652
543.98	3,564	1,925	544.50	3,564	2,666
543.99	3,564	1,939	544.51	3,564	2,680
544.00	3,564	1,953	544.52	3,564	2,694
544.01	3,564	1,967	544.53	3,564	2,709
544.02	3,564	1,982	544.54	3,564	2,723
544.03	3,564	1,996	544.55	3,564	2,737
544.04	3,564	2,010	544.56	3,564	2,751
544.05	3,564	2,024	544.57	3,564	2,766
544.06	3,564	2,039	544.58	3,564	2,780
544.07	3,564	2,053	544.59	3,564	2,794
544.08	3,564	2,067	544.60	3,564	2,808
544.09	3,564	2,081	544.61	3,564	2,823
544.10	3,564	2,096	544.62	3,564	2,837
544.11	3,564	2,110	544.63	3,564	2,851
544.12	3,564	2,124	544.64	3,564	2,865
544.13	3,564	2,138	544.65	3,564	2,880
544.14	3,564	2,153	544.66	3,564	2,894
544.15	3,564	2,167	544.67	3,564	2,908
544.16	3,564	2,181	544.68	3,564	2,922
544.17	3,564	2,195	544.69	3,564	2,937
544.18	3,564	2,210	544.70	3,564	2,951

**Stage-Area-Storage for Pond PV-10: Pervious Pavers 10 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.71	3,564	2,965
544.72	3,564	2,980
544.73	3,564	2,994
544.74	3,564	3,008
544.75	3,564	3,022
544.76	3,564	3,037
544.77	3,564	3,051
544.78	3,564	3,065
544.79	3,564	3,079
544.80	3,564	3,094
544.81	3,564	3,108
544.82	3,564	3,122
544.83	3,564	3,136
544.84	3,564	3,151
544.85	3,564	3,165
544.86	3,564	3,179
544.87	3,564	3,193
544.88	3,564	<b>3,208</b>

**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 0.74" for WQV event  
 Inflow = 0.35 cfs @ 1.08 hrs, Volume= 406 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.62' @ 2.07 hrs Surf.Area= 2,592 sf Storage= 406 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	543.23'	1,970 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,925 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.23	2,592	0	0
545.13	2,592	4,925	4,925

Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.90'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=543.23' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.84 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

**Hydrograph for Pond PV-11: Pervious Pavers 11**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.23	<b>0.00</b>
0.20	0.00	0	543.23	0.00
0.40	0.01	1	543.23	0.00
0.60	0.02	9	543.24	0.00
0.80	0.05	28	543.26	0.00
1.00	<b>0.31</b>	131	543.36	0.00
1.20	<b>0.08</b>	299	543.52	0.00
1.40	0.05	342	543.56	0.00
1.60	0.04	373	543.59	0.00
1.80	0.01	396	543.61	0.00
2.00	0.01	<b>405</b>	<b>543.62</b>	0.00
2.20	0.00	<b>406</b>	<b>543.62</b>	0.00
2.40	0.00	406	543.62	0.00
2.60	0.00	406	543.62	0.00
2.80	0.00	406	543.62	0.00
3.00	0.00	406	543.62	0.00
3.20	0.00	406	543.62	0.00
3.40	0.00	406	543.62	0.00
3.60	0.00	406	543.62	0.00
3.80	0.00	406	543.62	0.00
4.00	0.00	406	543.62	0.00
4.20	0.00	406	543.62	0.00
4.40	0.00	406	543.62	0.00
4.60	0.00	406	543.62	0.00
4.80	0.00	406	543.62	0.00
5.00	0.00	406	543.62	0.00
5.20	0.00	406	543.62	0.00
5.40	0.00	406	543.62	0.00
5.60	0.00	406	543.62	0.00
5.80	0.00	406	543.62	0.00
6.00	0.00	406	543.62	0.00
6.20	0.00	406	543.62	0.00
6.40	0.00	406	543.62	0.00
6.60	0.00	406	543.62	0.00
6.80	0.00	406	543.62	0.00
7.00	0.00	406	543.62	0.00
7.20	0.00	406	543.62	0.00
7.40	0.00	406	543.62	0.00
7.60	0.00	406	543.62	0.00
7.80	0.00	406	543.62	0.00
8.00	0.00	406	543.62	0.00
8.20	0.00	406	543.62	0.00
8.40	0.00	406	543.62	0.00
8.60	0.00	406	543.62	0.00
8.80	0.00	406	543.62	0.00
9.00	0.00	406	543.62	0.00
9.20	0.00	406	543.62	0.00
9.40	0.00	406	543.62	0.00
9.60	0.00	406	543.62	0.00
9.80	0.00	406	543.62	0.00
10.00	0.00	406	543.62	0.00
10.20	0.00	406	543.62	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	406	543.62	0.00
10.60	0.00	406	543.62	0.00
10.80	0.00	406	543.62	0.00
11.00	0.00	406	543.62	0.00
11.20	0.00	406	543.62	0.00
11.40	0.00	406	543.62	0.00
11.60	0.00	406	543.62	0.00
11.80	0.00	406	543.62	0.00
12.00	0.00	406	543.62	0.00
12.20	0.00	406	543.62	0.00
12.40	0.00	406	543.62	0.00
12.60	0.00	406	543.62	0.00
12.80	0.00	406	543.62	0.00
13.00	0.00	406	543.62	0.00
13.20	0.00	406	543.62	0.00
13.40	0.00	406	543.62	0.00
13.60	0.00	406	543.62	0.00
13.80	0.00	406	543.62	0.00
14.00	0.00	406	543.62	0.00
14.20	0.00	406	543.62	0.00
14.40	0.00	406	543.62	0.00
14.60	0.00	406	543.62	0.00
14.80	0.00	406	543.62	0.00
15.00	0.00	406	543.62	0.00
15.20	0.00	406	543.62	0.00
15.40	0.00	406	543.62	0.00
15.60	0.00	406	543.62	0.00
15.80	0.00	406	543.62	0.00
16.00	0.00	406	543.62	0.00
16.20	0.00	406	543.62	0.00
16.40	0.00	406	543.62	0.00
16.60	0.00	406	543.62	0.00
16.80	0.00	406	543.62	0.00
17.00	0.00	406	543.62	0.00
17.20	0.00	406	543.62	0.00
17.40	0.00	406	543.62	0.00
17.60	0.00	406	543.62	0.00
17.80	0.00	406	543.62	0.00
18.00	0.00	406	543.62	0.00
18.20	0.00	406	543.62	0.00
18.40	0.00	406	543.62	0.00
18.60	0.00	406	543.62	0.00
18.80	0.00	406	543.62	0.00
19.00	0.00	406	543.62	0.00
19.20	0.00	406	543.62	0.00
19.40	0.00	406	543.62	0.00
19.60	0.00	406	543.62	0.00
19.80	0.00	406	543.62	0.00
20.00	0.00	406	543.62	0.00
20.20	0.00	406	543.62	0.00
20.40	0.00	406	543.62	0.00
20.60	0.00	406	543.62	0.00



**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	406	543.62	0.00
21.00	0.00	406	543.62	0.00
21.20	0.00	406	543.62	0.00
21.40	0.00	406	543.62	0.00
21.60	0.00	406	543.62	0.00
21.80	0.00	406	543.62	0.00
22.00	0.00	406	543.62	0.00
22.20	0.00	406	543.62	0.00
22.40	0.00	406	543.62	0.00
22.60	0.00	406	543.62	0.00
22.80	0.00	406	543.62	0.00
23.00	0.00	406	543.62	0.00
23.20	0.00	406	543.62	0.00
23.40	0.00	406	543.62	0.00
23.60	0.00	406	543.62	0.00
23.80	0.00	406	543.62	0.00
24.00	0.00	406	543.62	0.00
24.20	0.00	406	543.62	0.00
24.40	0.00	406	543.62	0.00
24.60	0.00	406	543.62	0.00
24.80	0.00	406	543.62	0.00
25.00	0.00	406	543.62	0.00
25.20	0.00	406	543.62	0.00
25.40	0.00	406	543.62	0.00
25.60	0.00	406	543.62	0.00
25.80	0.00	406	543.62	0.00
26.00	0.00	406	543.62	0.00
26.20	0.00	406	543.62	0.00
26.40	0.00	406	543.62	0.00
26.60	0.00	406	543.62	0.00
26.80	0.00	406	543.62	0.00
27.00	0.00	406	543.62	0.00
27.20	0.00	406	543.62	0.00
27.40	0.00	406	543.62	0.00
27.60	0.00	406	543.62	0.00
27.80	0.00	406	543.62	0.00
28.00	0.00	406	543.62	0.00
28.20	0.00	406	543.62	0.00
28.40	0.00	406	543.62	0.00
28.60	0.00	406	543.62	0.00
28.80	0.00	406	543.62	0.00
29.00	0.00	406	543.62	0.00
29.20	0.00	406	543.62	0.00
29.40	0.00	406	543.62	0.00
29.60	0.00	406	543.62	0.00
29.80	0.00	406	543.62	0.00
30.00	0.00	406	543.62	0.00
30.20	0.00	406	543.62	0.00
30.40	0.00	406	543.62	0.00
30.60	0.00	406	543.62	0.00
30.80	0.00	406	543.62	0.00
31.00	0.00	406	543.62	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	406	543.62	0.00
31.40	0.00	406	543.62	0.00
31.60	0.00	406	543.62	0.00
31.80	0.00	406	543.62	0.00
32.00	0.00	406	543.62	0.00
32.20	0.00	406	543.62	0.00
32.40	0.00	406	543.62	0.00
32.60	0.00	406	543.62	0.00
32.80	0.00	406	543.62	0.00
33.00	0.00	406	543.62	0.00
33.20	0.00	406	543.62	0.00
33.40	0.00	406	543.62	0.00
33.60	0.00	406	543.62	0.00
33.80	0.00	406	543.62	0.00
34.00	0.00	406	543.62	0.00
34.20	0.00	406	543.62	0.00
34.40	0.00	406	543.62	0.00
34.60	0.00	406	543.62	0.00
34.80	0.00	406	543.62	0.00
35.00	0.00	406	543.62	0.00
35.20	0.00	406	543.62	0.00
35.40	0.00	406	543.62	0.00
35.60	0.00	406	543.62	0.00
35.80	0.00	406	543.62	0.00
36.00	0.00	406	543.62	0.00
36.20	0.00	406	543.62	0.00
36.40	0.00	406	543.62	0.00
36.60	0.00	406	543.62	0.00
36.80	0.00	406	543.62	0.00
37.00	0.00	406	543.62	0.00
37.20	0.00	406	543.62	0.00
37.40	0.00	406	543.62	0.00
37.60	0.00	406	543.62	0.00
37.80	0.00	406	543.62	0.00
38.00	0.00	406	543.62	0.00
38.20	0.00	406	543.62	0.00
38.40	0.00	406	543.62	0.00
38.60	0.00	406	543.62	0.00
38.80	0.00	406	543.62	0.00
39.00	0.00	406	543.62	0.00
39.20	0.00	406	543.62	0.00
39.40	0.00	406	543.62	0.00
39.60	0.00	406	543.62	0.00
39.80	0.00	406	543.62	0.00
40.00	0.00	406	543.62	0.00
40.20	0.00	406	543.62	0.00
40.40	0.00	406	543.62	0.00
40.60	0.00	406	543.62	0.00
40.80	0.00	406	543.62	0.00
41.00	0.00	406	543.62	0.00
41.20	0.00	406	543.62	0.00
41.40	0.00	406	543.62	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	406	543.62	0.00
41.80	0.00	406	543.62	0.00
42.00	0.00	406	543.62	0.00
42.20	0.00	406	543.62	0.00
42.40	0.00	406	543.62	0.00
42.60	0.00	406	543.62	0.00
42.80	0.00	406	543.62	0.00
43.00	0.00	406	543.62	0.00
43.20	0.00	406	543.62	0.00
43.40	0.00	406	543.62	0.00
43.60	0.00	406	543.62	0.00
43.80	0.00	406	543.62	0.00
44.00	0.00	406	543.62	0.00
44.20	0.00	406	543.62	0.00
44.40	0.00	406	543.62	0.00
44.60	0.00	406	543.62	0.00
44.80	0.00	406	543.62	0.00
45.00	0.00	406	543.62	0.00
45.20	0.00	406	543.62	0.00
45.40	0.00	406	543.62	0.00
45.60	0.00	406	543.62	0.00
45.80	0.00	406	543.62	0.00
46.00	0.00	406	543.62	0.00
46.20	0.00	406	543.62	0.00
46.40	0.00	406	543.62	0.00
46.60	0.00	406	543.62	0.00
46.80	0.00	406	543.62	0.00
47.00	0.00	406	543.62	0.00
47.20	0.00	406	543.62	0.00
47.40	0.00	406	543.62	0.00
47.60	0.00	406	543.62	0.00
47.80	0.00	406	543.62	0.00
48.00	0.00	406	543.62	0.00
48.20	0.00	406	543.62	0.00
48.40	0.00	406	543.62	0.00
48.60	0.00	406	543.62	0.00
48.80	0.00	406	543.62	0.00
49.00	0.00	406	543.62	0.00
49.20	0.00	406	543.62	0.00
49.40	0.00	406	543.62	0.00
49.60	0.00	406	543.62	0.00
49.80	0.00	406	543.62	0.00
50.00	0.00	406	543.62	0.00
50.20	0.00	406	543.62	0.00
50.40	0.00	406	543.62	0.00
50.60	0.00	406	543.62	0.00
50.80	0.00	406	543.62	0.00
51.00	0.00	406	543.62	0.00
51.20	0.00	406	543.62	0.00
51.40	0.00	406	543.62	0.00
51.60	0.00	406	543.62	0.00
51.80	0.00	406	543.62	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	406	543.62	0.00
52.20	0.00	406	543.62	0.00
52.40	0.00	406	543.62	0.00
52.60	0.00	406	543.62	0.00
52.80	0.00	406	543.62	0.00
53.00	0.00	406	543.62	0.00
53.20	0.00	406	543.62	0.00
53.40	0.00	406	543.62	0.00
53.60	0.00	406	543.62	0.00
53.80	0.00	406	543.62	0.00
54.00	0.00	406	543.62	0.00
54.20	0.00	406	543.62	0.00
54.40	0.00	406	543.62	0.00
54.60	0.00	406	543.62	0.00
54.80	0.00	406	543.62	0.00
55.00	0.00	406	543.62	0.00
55.20	0.00	406	543.62	0.00
55.40	0.00	406	543.62	0.00
55.60	0.00	406	543.62	0.00
55.80	0.00	406	543.62	0.00
56.00	0.00	406	543.62	0.00
56.20	0.00	406	543.62	0.00
56.40	0.00	406	543.62	0.00
56.60	0.00	406	543.62	0.00
56.80	0.00	406	543.62	0.00
57.00	0.00	406	543.62	0.00
57.20	0.00	406	543.62	0.00
57.40	0.00	406	543.62	0.00
57.60	0.00	406	543.62	0.00
57.80	0.00	406	543.62	0.00
58.00	0.00	406	543.62	0.00
58.20	0.00	406	543.62	0.00
58.40	0.00	406	543.62	0.00
58.60	0.00	406	543.62	0.00
58.80	0.00	406	543.62	0.00
59.00	0.00	406	543.62	0.00
59.20	0.00	406	543.62	0.00
59.40	0.00	406	543.62	0.00
59.60	0.00	406	543.62	0.00
59.80	0.00	406	543.62	0.00
60.00	0.00	406	543.62	0.00
60.20	0.00	406	543.62	0.00
60.40	0.00	406	543.62	0.00
60.60	0.00	406	543.62	0.00
60.80	0.00	406	543.62	0.00
61.00	0.00	406	543.62	0.00
61.20	0.00	406	543.62	0.00
61.40	0.00	406	543.62	0.00
61.60	0.00	406	543.62	0.00
61.80	0.00	406	543.62	0.00
62.00	0.00	406	543.62	0.00
62.20	0.00	406	543.62	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	406	543.62	0.00
62.60	0.00	406	543.62	0.00
62.80	0.00	406	543.62	0.00
63.00	0.00	406	543.62	0.00
63.20	0.00	406	543.62	0.00
63.40	0.00	406	543.62	0.00
63.60	0.00	406	543.62	0.00
63.80	0.00	406	543.62	0.00
64.00	0.00	406	543.62	0.00
64.20	0.00	406	543.62	0.00
64.40	0.00	406	543.62	0.00
64.60	0.00	406	543.62	0.00
64.80	0.00	406	543.62	0.00
65.00	0.00	406	543.62	0.00
65.20	0.00	406	543.62	0.00
65.40	0.00	406	543.62	0.00
65.60	0.00	406	543.62	0.00
65.80	0.00	406	543.62	0.00
66.00	0.00	406	543.62	0.00
66.20	0.00	406	543.62	0.00
66.40	0.00	406	543.62	0.00
66.60	0.00	406	543.62	0.00
66.80	0.00	406	543.62	0.00
67.00	0.00	406	543.62	0.00
67.20	0.00	406	543.62	0.00
67.40	0.00	406	543.62	0.00
67.60	0.00	406	543.62	0.00
67.80	0.00	406	543.62	0.00
68.00	0.00	406	543.62	0.00
68.20	0.00	406	543.62	0.00
68.40	0.00	406	543.62	0.00
68.60	0.00	406	543.62	0.00
68.80	0.00	406	543.62	0.00
69.00	0.00	406	543.62	0.00
69.20	0.00	406	543.62	0.00
69.40	0.00	406	543.62	0.00
69.60	0.00	406	543.62	0.00
69.80	0.00	406	543.62	0.00
70.00	0.00	406	543.62	0.00
70.20	0.00	406	543.62	0.00
70.40	0.00	406	543.62	0.00
70.60	0.00	406	543.62	0.00
70.80	0.00	406	543.62	0.00
71.00	0.00	406	543.62	0.00
71.20	0.00	406	543.62	0.00
71.40	0.00	406	543.62	0.00
71.60	0.00	406	543.62	0.00
71.80	0.00	406	543.62	0.00
72.00	0.00	406	543.62	0.00

**Stage-Area-Storage for Pond PV-11: Pervious Pavers 11**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.23	2,592	0	543.75	2,592	539
543.24	2,592	10	543.76	2,592	550
543.25	2,592	21	543.77	2,592	560
543.26	2,592	31	543.78	2,592	570
543.27	2,592	41	543.79	2,592	581
543.28	2,592	52	543.80	2,592	591
543.29	2,592	62	543.81	2,592	601
543.30	2,592	73	543.82	2,592	612
543.31	2,592	83	543.83	2,592	622
543.32	2,592	93	543.84	2,592	632
543.33	2,592	104	543.85	2,592	643
543.34	2,592	114	543.86	2,592	653
543.35	2,592	124	543.87	2,592	664
543.36	2,592	135	543.88	2,592	674
543.37	2,592	145	543.89	2,592	684
543.38	2,592	156	543.90	2,592	695
543.39	2,592	166	543.91	2,592	705
543.40	2,592	176	543.92	2,592	715
543.41	2,592	187	543.93	2,592	726
543.42	2,592	197	543.94	2,592	736
543.43	2,592	207	543.95	2,592	746
543.44	2,592	218	543.96	2,592	757
543.45	2,592	228	543.97	2,592	767
543.46	2,592	238	543.98	2,592	778
543.47	2,592	249	543.99	2,592	788
543.48	2,592	259	544.00	2,592	798
543.49	2,592	270	544.01	2,592	809
543.50	2,592	280	544.02	2,592	819
543.51	2,592	290	544.03	2,592	829
543.52	2,592	301	544.04	2,592	840
543.53	2,592	311	544.05	2,592	850
543.54	2,592	321	544.06	2,592	861
543.55	2,592	332	544.07	2,592	871
543.56	2,592	342	544.08	2,592	881
543.57	2,592	353	544.09	2,592	892
543.58	2,592	363	544.10	2,592	902
543.59	2,592	373	544.11	2,592	912
543.60	2,592	384	544.12	2,592	923
543.61	2,592	394	544.13	2,592	933
543.62	2,592	404	544.14	2,592	943
543.63	2,592	415	544.15	2,592	954
543.64	2,592	425	544.16	2,592	964
543.65	2,592	435	544.17	2,592	975
543.66	2,592	446	544.18	2,592	985
543.67	2,592	456	544.19	2,592	995
543.68	2,592	467	544.20	2,592	1,006
543.69	2,592	477	544.21	2,592	1,016
543.70	2,592	487	544.22	2,592	1,026
543.71	2,592	498	544.23	2,592	1,037
543.72	2,592	508	544.24	2,592	1,047
543.73	2,592	518	544.25	2,592	1,058
543.74	2,592	529	544.26	2,592	1,068

**Stage-Area-Storage for Pond PV-11: Pervious Pavers 11 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.27	2,592	1,078	544.79	2,592	1,617
544.28	2,592	1,089	544.80	2,592	1,628
544.29	2,592	1,099	544.81	2,592	1,638
544.30	2,592	1,109	544.82	2,592	1,649
544.31	2,592	1,120	544.83	2,592	1,659
544.32	2,592	1,130	544.84	2,592	1,669
544.33	2,592	1,140	544.85	2,592	1,680
544.34	2,592	1,151	544.86	2,592	1,690
544.35	2,592	1,161	544.87	2,592	1,700
544.36	2,592	1,172	544.88	2,592	1,711
544.37	2,592	1,182	544.89	2,592	1,721
544.38	2,592	1,192	544.90	2,592	1,731
544.39	2,592	1,203	544.91	2,592	1,742
544.40	2,592	1,213	544.92	2,592	1,752
544.41	2,592	1,223	544.93	2,592	1,763
544.42	2,592	1,234	544.94	2,592	1,773
544.43	2,592	1,244	544.95	2,592	1,783
544.44	2,592	1,255	544.96	2,592	1,794
544.45	2,592	1,265	544.97	2,592	1,804
544.46	2,592	1,275	544.98	2,592	1,814
544.47	2,592	1,286	544.99	2,592	1,825
544.48	2,592	1,296	545.00	2,592	1,835
544.49	2,592	1,306	545.01	2,592	1,846
544.50	2,592	1,317	545.02	2,592	1,856
544.51	2,592	1,327	545.03	2,592	1,866
544.52	2,592	1,337	545.04	2,592	1,877
544.53	2,592	1,348	545.05	2,592	1,887
544.54	2,592	1,358	545.06	2,592	1,897
544.55	2,592	1,369	545.07	2,592	1,908
544.56	2,592	1,379	545.08	2,592	1,918
544.57	2,592	1,389	545.09	2,592	1,928
544.58	2,592	1,400	545.10	2,592	1,939
544.59	2,592	1,410	545.11	2,592	1,949
544.60	2,592	1,420	545.12	2,592	1,960
544.61	2,592	1,431	545.13	2,592	<b>1,970</b>
544.62	2,592	1,441			
544.63	2,592	1,452			
544.64	2,592	1,462			
544.65	2,592	1,472			
544.66	2,592	1,483			
544.67	2,592	1,493			
544.68	2,592	1,503			
544.69	2,592	1,514			
544.70	2,592	1,524			
544.71	2,592	1,534			
544.72	2,592	1,545			
544.73	2,592	1,555			
544.74	2,592	1,566			
544.75	2,592	1,576			
544.76	2,592	1,586			
544.77	2,592	1,597			
544.78	2,592	1,607			

**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 0.69" for WQV event  
 Inflow = 0.33 cfs @ 1.10 hrs, Volume= 401 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 542.49' @ 2.22 hrs Surf.Area= 2,430 sf Storage= 401 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	542.08'	2,041 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,103 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.08	2,430	0	0
544.18	2,430	5,103	5,103

Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	541.75'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.08' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.87 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)



**Hydrograph for Pond PV-7: Pervious Pavers 7**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.08	<b>0.00</b>
0.20	0.00	0	542.08	0.00
0.40	0.00	0	542.08	0.00
0.60	0.02	7	542.09	0.00
0.80	0.03	22	542.10	0.00
1.00	<b>0.25</b>	88	542.17	0.00
1.20	<b>0.14</b>	275	542.36	0.00
1.40	0.05	329	542.42	0.00
1.60	0.04	362	542.45	0.00
1.80	0.03	388	542.48	0.00
2.00	0.01	398	542.49	0.00
2.20	0.00	<b>401</b>	<b>542.49</b>	0.00
2.40	0.00	<b>401</b>	<b>542.49</b>	0.00
2.60	0.00	401	542.49	0.00
2.80	0.00	401	542.49	0.00
3.00	0.00	401	542.49	0.00
3.20	0.00	401	542.49	0.00
3.40	0.00	401	542.49	0.00
3.60	0.00	401	542.49	0.00
3.80	0.00	401	542.49	0.00
4.00	0.00	401	542.49	0.00
4.20	0.00	401	542.49	0.00
4.40	0.00	401	542.49	0.00
4.60	0.00	401	542.49	0.00
4.80	0.00	401	542.49	0.00
5.00	0.00	401	542.49	0.00
5.20	0.00	401	542.49	0.00
5.40	0.00	401	542.49	0.00
5.60	0.00	401	542.49	0.00
5.80	0.00	401	542.49	0.00
6.00	0.00	401	542.49	0.00
6.20	0.00	401	542.49	0.00
6.40	0.00	401	542.49	0.00
6.60	0.00	401	542.49	0.00
6.80	0.00	401	542.49	0.00
7.00	0.00	401	542.49	0.00
7.20	0.00	401	542.49	0.00
7.40	0.00	401	542.49	0.00
7.60	0.00	401	542.49	0.00
7.80	0.00	401	542.49	0.00
8.00	0.00	401	542.49	0.00
8.20	0.00	401	542.49	0.00
8.40	0.00	401	542.49	0.00
8.60	0.00	401	542.49	0.00
8.80	0.00	401	542.49	0.00
9.00	0.00	401	542.49	0.00
9.20	0.00	401	542.49	0.00
9.40	0.00	401	542.49	0.00
9.60	0.00	401	542.49	0.00
9.80	0.00	401	542.49	0.00
10.00	0.00	401	542.49	0.00
10.20	0.00	401	542.49	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	401	542.49	0.00
10.60	0.00	401	542.49	0.00
10.80	0.00	401	542.49	0.00
11.00	0.00	401	542.49	0.00
11.20	0.00	401	542.49	0.00
11.40	0.00	401	542.49	0.00
11.60	0.00	401	542.49	0.00
11.80	0.00	401	542.49	0.00
12.00	0.00	401	542.49	0.00
12.20	0.00	401	542.49	0.00
12.40	0.00	401	542.49	0.00
12.60	0.00	401	542.49	0.00
12.80	0.00	401	542.49	0.00
13.00	0.00	401	542.49	0.00
13.20	0.00	401	542.49	0.00
13.40	0.00	401	542.49	0.00
13.60	0.00	401	542.49	0.00
13.80	0.00	401	542.49	0.00
14.00	0.00	401	542.49	0.00
14.20	0.00	401	542.49	0.00
14.40	0.00	401	542.49	0.00
14.60	0.00	401	542.49	0.00
14.80	0.00	401	542.49	0.00
15.00	0.00	401	542.49	0.00
15.20	0.00	401	542.49	0.00
15.40	0.00	401	542.49	0.00
15.60	0.00	401	542.49	0.00
15.80	0.00	401	542.49	0.00
16.00	0.00	401	542.49	0.00
16.20	0.00	401	542.49	0.00
16.40	0.00	401	542.49	0.00
16.60	0.00	401	542.49	0.00
16.80	0.00	401	542.49	0.00
17.00	0.00	401	542.49	0.00
17.20	0.00	401	542.49	0.00
17.40	0.00	401	542.49	0.00
17.60	0.00	401	542.49	0.00
17.80	0.00	401	542.49	0.00
18.00	0.00	401	542.49	0.00
18.20	0.00	401	542.49	0.00
18.40	0.00	401	542.49	0.00
18.60	0.00	401	542.49	0.00
18.80	0.00	401	542.49	0.00
19.00	0.00	401	542.49	0.00
19.20	0.00	401	542.49	0.00
19.40	0.00	401	542.49	0.00
19.60	0.00	401	542.49	0.00
19.80	0.00	401	542.49	0.00
20.00	0.00	401	542.49	0.00
20.20	0.00	401	542.49	0.00
20.40	0.00	401	542.49	0.00
20.60	0.00	401	542.49	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	401	542.49	0.00
21.00	0.00	401	542.49	0.00
21.20	0.00	401	542.49	0.00
21.40	0.00	401	542.49	0.00
21.60	0.00	401	542.49	0.00
21.80	0.00	401	542.49	0.00
22.00	0.00	401	542.49	0.00
22.20	0.00	401	542.49	0.00
22.40	0.00	401	542.49	0.00
22.60	0.00	401	542.49	0.00
22.80	0.00	401	542.49	0.00
23.00	0.00	401	542.49	0.00
23.20	0.00	401	542.49	0.00
23.40	0.00	401	542.49	0.00
23.60	0.00	401	542.49	0.00
23.80	0.00	401	542.49	0.00
24.00	0.00	401	542.49	0.00
24.20	0.00	401	542.49	0.00
24.40	0.00	401	542.49	0.00
24.60	0.00	401	542.49	0.00
24.80	0.00	401	542.49	0.00
25.00	0.00	401	542.49	0.00
25.20	0.00	401	542.49	0.00
25.40	0.00	401	542.49	0.00
25.60	0.00	401	542.49	0.00
25.80	0.00	401	542.49	0.00
26.00	0.00	401	542.49	0.00
26.20	0.00	401	542.49	0.00
26.40	0.00	401	542.49	0.00
26.60	0.00	401	542.49	0.00
26.80	0.00	401	542.49	0.00
27.00	0.00	401	542.49	0.00
27.20	0.00	401	542.49	0.00
27.40	0.00	401	542.49	0.00
27.60	0.00	401	542.49	0.00
27.80	0.00	401	542.49	0.00
28.00	0.00	401	542.49	0.00
28.20	0.00	401	542.49	0.00
28.40	0.00	401	542.49	0.00
28.60	0.00	401	542.49	0.00
28.80	0.00	401	542.49	0.00
29.00	0.00	401	542.49	0.00
29.20	0.00	401	542.49	0.00
29.40	0.00	401	542.49	0.00
29.60	0.00	401	542.49	0.00
29.80	0.00	401	542.49	0.00
30.00	0.00	401	542.49	0.00
30.20	0.00	401	542.49	0.00
30.40	0.00	401	542.49	0.00
30.60	0.00	401	542.49	0.00
30.80	0.00	401	542.49	0.00
31.00	0.00	401	542.49	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	401	542.49	0.00
31.40	0.00	401	542.49	0.00
31.60	0.00	401	542.49	0.00
31.80	0.00	401	542.49	0.00
32.00	0.00	401	542.49	0.00
32.20	0.00	401	542.49	0.00
32.40	0.00	401	542.49	0.00
32.60	0.00	401	542.49	0.00
32.80	0.00	401	542.49	0.00
33.00	0.00	401	542.49	0.00
33.20	0.00	401	542.49	0.00
33.40	0.00	401	542.49	0.00
33.60	0.00	401	542.49	0.00
33.80	0.00	401	542.49	0.00
34.00	0.00	401	542.49	0.00
34.20	0.00	401	542.49	0.00
34.40	0.00	401	542.49	0.00
34.60	0.00	401	542.49	0.00
34.80	0.00	401	542.49	0.00
35.00	0.00	401	542.49	0.00
35.20	0.00	401	542.49	0.00
35.40	0.00	401	542.49	0.00
35.60	0.00	401	542.49	0.00
35.80	0.00	401	542.49	0.00
36.00	0.00	401	542.49	0.00
36.20	0.00	401	542.49	0.00
36.40	0.00	401	542.49	0.00
36.60	0.00	401	542.49	0.00
36.80	0.00	401	542.49	0.00
37.00	0.00	401	542.49	0.00
37.20	0.00	401	542.49	0.00
37.40	0.00	401	542.49	0.00
37.60	0.00	401	542.49	0.00
37.80	0.00	401	542.49	0.00
38.00	0.00	401	542.49	0.00
38.20	0.00	401	542.49	0.00
38.40	0.00	401	542.49	0.00
38.60	0.00	401	542.49	0.00
38.80	0.00	401	542.49	0.00
39.00	0.00	401	542.49	0.00
39.20	0.00	401	542.49	0.00
39.40	0.00	401	542.49	0.00
39.60	0.00	401	542.49	0.00
39.80	0.00	401	542.49	0.00
40.00	0.00	401	542.49	0.00
40.20	0.00	401	542.49	0.00
40.40	0.00	401	542.49	0.00
40.60	0.00	401	542.49	0.00
40.80	0.00	401	542.49	0.00
41.00	0.00	401	542.49	0.00
41.20	0.00	401	542.49	0.00
41.40	0.00	401	542.49	0.00

Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	401	542.49	0.00
41.80	0.00	401	542.49	0.00
42.00	0.00	401	542.49	0.00
42.20	0.00	401	542.49	0.00
42.40	0.00	401	542.49	0.00
42.60	0.00	401	542.49	0.00
42.80	0.00	401	542.49	0.00
43.00	0.00	401	542.49	0.00
43.20	0.00	401	542.49	0.00
43.40	0.00	401	542.49	0.00
43.60	0.00	401	542.49	0.00
43.80	0.00	401	542.49	0.00
44.00	0.00	401	542.49	0.00
44.20	0.00	401	542.49	0.00
44.40	0.00	401	542.49	0.00
44.60	0.00	401	542.49	0.00
44.80	0.00	401	542.49	0.00
45.00	0.00	401	542.49	0.00
45.20	0.00	401	542.49	0.00
45.40	0.00	401	542.49	0.00
45.60	0.00	401	542.49	0.00
45.80	0.00	401	542.49	0.00
46.00	0.00	401	542.49	0.00
46.20	0.00	401	542.49	0.00
46.40	0.00	401	542.49	0.00
46.60	0.00	401	542.49	0.00
46.80	0.00	401	542.49	0.00
47.00	0.00	401	542.49	0.00
47.20	0.00	401	542.49	0.00
47.40	0.00	401	542.49	0.00
47.60	0.00	401	542.49	0.00
47.80	0.00	401	542.49	0.00
48.00	0.00	401	542.49	0.00
48.20	0.00	401	542.49	0.00
48.40	0.00	401	542.49	0.00
48.60	0.00	401	542.49	0.00
48.80	0.00	401	542.49	0.00
49.00	0.00	401	542.49	0.00
49.20	0.00	401	542.49	0.00
49.40	0.00	401	542.49	0.00
49.60	0.00	401	542.49	0.00
49.80	0.00	401	542.49	0.00
50.00	0.00	401	542.49	0.00
50.20	0.00	401	542.49	0.00
50.40	0.00	401	542.49	0.00
50.60	0.00	401	542.49	0.00
50.80	0.00	401	542.49	0.00
51.00	0.00	401	542.49	0.00
51.20	0.00	401	542.49	0.00
51.40	0.00	401	542.49	0.00
51.60	0.00	401	542.49	0.00
51.80	0.00	401	542.49	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	401	542.49	0.00
52.20	0.00	401	542.49	0.00
52.40	0.00	401	542.49	0.00
52.60	0.00	401	542.49	0.00
52.80	0.00	401	542.49	0.00
53.00	0.00	401	542.49	0.00
53.20	0.00	401	542.49	0.00
53.40	0.00	401	542.49	0.00
53.60	0.00	401	542.49	0.00
53.80	0.00	401	542.49	0.00
54.00	0.00	401	542.49	0.00
54.20	0.00	401	542.49	0.00
54.40	0.00	401	542.49	0.00
54.60	0.00	401	542.49	0.00
54.80	0.00	401	542.49	0.00
55.00	0.00	401	542.49	0.00
55.20	0.00	401	542.49	0.00
55.40	0.00	401	542.49	0.00
55.60	0.00	401	542.49	0.00
55.80	0.00	401	542.49	0.00
56.00	0.00	401	542.49	0.00
56.20	0.00	401	542.49	0.00
56.40	0.00	401	542.49	0.00
56.60	0.00	401	542.49	0.00
56.80	0.00	401	542.49	0.00
57.00	0.00	401	542.49	0.00
57.20	0.00	401	542.49	0.00
57.40	0.00	401	542.49	0.00
57.60	0.00	401	542.49	0.00
57.80	0.00	401	542.49	0.00
58.00	0.00	401	542.49	0.00
58.20	0.00	401	542.49	0.00
58.40	0.00	401	542.49	0.00
58.60	0.00	401	542.49	0.00
58.80	0.00	401	542.49	0.00
59.00	0.00	401	542.49	0.00
59.20	0.00	401	542.49	0.00
59.40	0.00	401	542.49	0.00
59.60	0.00	401	542.49	0.00
59.80	0.00	401	542.49	0.00
60.00	0.00	401	542.49	0.00
60.20	0.00	401	542.49	0.00
60.40	0.00	401	542.49	0.00
60.60	0.00	401	542.49	0.00
60.80	0.00	401	542.49	0.00
61.00	0.00	401	542.49	0.00
61.20	0.00	401	542.49	0.00
61.40	0.00	401	542.49	0.00
61.60	0.00	401	542.49	0.00
61.80	0.00	401	542.49	0.00
62.00	0.00	401	542.49	0.00
62.20	0.00	401	542.49	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	401	542.49	0.00
62.60	0.00	401	542.49	0.00
62.80	0.00	401	542.49	0.00
63.00	0.00	401	542.49	0.00
63.20	0.00	401	542.49	0.00
63.40	0.00	401	542.49	0.00
63.60	0.00	401	542.49	0.00
63.80	0.00	401	542.49	0.00
64.00	0.00	401	542.49	0.00
64.20	0.00	401	542.49	0.00
64.40	0.00	401	542.49	0.00
64.60	0.00	401	542.49	0.00
64.80	0.00	401	542.49	0.00
65.00	0.00	401	542.49	0.00
65.20	0.00	401	542.49	0.00
65.40	0.00	401	542.49	0.00
65.60	0.00	401	542.49	0.00
65.80	0.00	401	542.49	0.00
66.00	0.00	401	542.49	0.00
66.20	0.00	401	542.49	0.00
66.40	0.00	401	542.49	0.00
66.60	0.00	401	542.49	0.00
66.80	0.00	401	542.49	0.00
67.00	0.00	401	542.49	0.00
67.20	0.00	401	542.49	0.00
67.40	0.00	401	542.49	0.00
67.60	0.00	401	542.49	0.00
67.80	0.00	401	542.49	0.00
68.00	0.00	401	542.49	0.00
68.20	0.00	401	542.49	0.00
68.40	0.00	401	542.49	0.00
68.60	0.00	401	542.49	0.00
68.80	0.00	401	542.49	0.00
69.00	0.00	401	542.49	0.00
69.20	0.00	401	542.49	0.00
69.40	0.00	401	542.49	0.00
69.60	0.00	401	542.49	0.00
69.80	0.00	401	542.49	0.00
70.00	0.00	401	542.49	0.00
70.20	0.00	401	542.49	0.00
70.40	0.00	401	542.49	0.00
70.60	0.00	401	542.49	0.00
70.80	0.00	401	542.49	0.00
71.00	0.00	401	542.49	0.00
71.20	0.00	401	542.49	0.00
71.40	0.00	401	542.49	0.00
71.60	0.00	401	542.49	0.00
71.80	0.00	401	542.49	0.00
72.00	0.00	401	542.49	0.00

**Stage-Area-Storage for Pond PV-7: Pervious Pavers 7**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.08	2,430	0	542.60	2,430	505
542.09	2,430	10	542.61	2,430	515
542.10	2,430	19	542.62	2,430	525
542.11	2,430	29	542.63	2,430	535
542.12	2,430	39	542.64	2,430	544
542.13	2,430	49	542.65	2,430	554
542.14	2,430	58	542.66	2,430	564
542.15	2,430	68	542.67	2,430	573
542.16	2,430	78	542.68	2,430	583
542.17	2,430	87	542.69	2,430	593
542.18	2,430	97	542.70	2,430	603
542.19	2,430	107	542.71	2,430	612
542.20	2,430	117	542.72	2,430	622
542.21	2,430	126	542.73	2,430	632
542.22	2,430	136	542.74	2,430	642
542.23	2,430	146	542.75	2,430	651
542.24	2,430	156	542.76	2,430	661
542.25	2,430	165	542.77	2,430	671
542.26	2,430	175	542.78	2,430	680
542.27	2,430	185	542.79	2,430	690
542.28	2,430	194	542.80	2,430	700
542.29	2,430	204	542.81	2,430	710
542.30	2,430	214	542.82	2,430	719
542.31	2,430	224	542.83	2,430	729
542.32	2,430	233	542.84	2,430	739
542.33	2,430	243	542.85	2,430	748
542.34	2,430	253	542.86	2,430	758
542.35	2,430	262	542.87	2,430	768
542.36	2,430	272	542.88	2,430	778
542.37	2,430	282	542.89	2,430	787
542.38	2,430	292	542.90	2,430	797
542.39	2,430	301	542.91	2,430	807
542.40	2,430	311	542.92	2,430	816
542.41	2,430	321	542.93	2,430	826
542.42	2,430	330	542.94	2,430	836
542.43	2,430	340	542.95	2,430	846
542.44	2,430	350	542.96	2,430	855
542.45	2,430	360	542.97	2,430	865
542.46	2,430	369	542.98	2,430	875
542.47	2,430	379	542.99	2,430	885
542.48	2,430	389	543.00	2,430	894
542.49	2,430	399	543.01	2,430	904
542.50	2,430	408	543.02	2,430	914
542.51	2,430	418	543.03	2,430	923
542.52	2,430	428	543.04	2,430	933
542.53	2,430	437	543.05	2,430	943
542.54	2,430	447	543.06	2,430	953
542.55	2,430	457	543.07	2,430	962
542.56	2,430	467	543.08	2,430	972
542.57	2,430	476	543.09	2,430	982
542.58	2,430	486	543.10	2,430	991
542.59	2,430	496	543.11	2,430	1,001



**Stage-Area-Storage for Pond PV-7: Pervious Pavers 7 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.12	2,430	1,011	543.64	2,430	1,516
543.13	2,430	1,021	543.65	2,430	1,526
543.14	2,430	1,030	543.66	2,430	1,536
543.15	2,430	1,040	543.67	2,430	1,545
543.16	2,430	1,050	543.68	2,430	1,555
543.17	2,430	1,059	543.69	2,430	1,565
543.18	2,430	1,069	543.70	2,430	1,575
543.19	2,430	1,079	543.71	2,430	1,584
543.20	2,430	1,089	543.72	2,430	1,594
543.21	2,430	1,098	543.73	2,430	1,604
543.22	2,430	1,108	543.74	2,430	1,614
543.23	2,430	1,118	543.75	2,430	1,623
543.24	2,430	1,128	543.76	2,430	1,633
543.25	2,430	1,137	543.77	2,430	1,643
543.26	2,430	1,147	543.78	2,430	1,652
543.27	2,430	1,157	543.79	2,430	1,662
543.28	2,430	1,166	543.80	2,430	1,672
543.29	2,430	1,176	543.81	2,430	1,682
543.30	2,430	1,186	543.82	2,430	1,691
543.31	2,430	1,196	543.83	2,430	1,701
543.32	2,430	1,205	543.84	2,430	1,711
543.33	2,430	1,215	543.85	2,430	1,720
543.34	2,430	1,225	543.86	2,430	1,730
543.35	2,430	1,234	543.87	2,430	1,740
543.36	2,430	1,244	543.88	2,430	1,750
543.37	2,430	1,254	543.89	2,430	1,759
543.38	2,430	1,264	543.90	2,430	1,769
543.39	2,430	1,273	543.91	2,430	1,779
543.40	2,430	1,283	543.92	2,430	1,788
543.41	2,430	1,293	543.93	2,430	1,798
543.42	2,430	1,302	543.94	2,430	1,808
543.43	2,430	1,312	543.95	2,430	1,818
543.44	2,430	1,322	543.96	2,430	1,827
543.45	2,430	1,332	543.97	2,430	1,837
543.46	2,430	1,341	543.98	2,430	1,847
543.47	2,430	1,351	543.99	2,430	1,857
543.48	2,430	1,361	544.00	2,430	1,866
543.49	2,430	1,371	544.01	2,430	1,876
543.50	2,430	1,380	544.02	2,430	1,886
543.51	2,430	1,390	544.03	2,430	1,895
543.52	2,430	1,400	544.04	2,430	1,905
543.53	2,430	1,409	544.05	2,430	1,915
543.54	2,430	1,419	544.06	2,430	1,925
543.55	2,430	1,429	544.07	2,430	1,934
543.56	2,430	1,439	544.08	2,430	1,944
543.57	2,430	1,448	544.09	2,430	1,954
543.58	2,430	1,458	544.10	2,430	1,963
543.59	2,430	1,468	544.11	2,430	1,973
543.60	2,430	1,477	544.12	2,430	1,983
543.61	2,430	1,487	544.13	2,430	1,993
543.62	2,430	1,497	544.14	2,430	2,002
543.63	2,430	1,507	544.15	2,430	2,012

**Stage-Area-Storage for Pond PV-7: Pervious Pavers 7 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.16	2,430	2,022
544.17	2,430	2,031
544.18	2,430	<b>2,041</b>

**Summary for Pond PV-8: Pervious Pavers 8**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 0.49" for WQV event  
 Inflow = 0.25 cfs @ 1.09 hrs, Volume= 265 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.53' @ 2.12 hrs Surf.Area= 3,564 sf Storage= 265 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	543.34'	1,768 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,419 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.34	3,564	0	0
544.58	3,564	4,419	4,419

Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.01'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=543.34' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 1.27 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

**Hydrograph for Pond PV-8: Pervious Pavers 8**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.34	<b>0.00</b>
0.20	0.00	0	543.34	0.00
0.40	0.00	0	543.34	0.00
0.60	0.01	4	543.34	0.00
0.80	0.02	12	543.35	0.00
1.00	<b>0.17</b>	57	543.38	0.00
1.20	<b>0.08</b>	178	543.46	0.00
1.40	0.04	213	543.49	0.00
1.60	0.03	237	543.51	0.00
1.80	0.01	257	543.52	0.00
2.00	0.01	<b>264</b>	<b>543.53</b>	0.00
2.20	0.00	<b>265</b>	<b>543.53</b>	0.00
2.40	0.00	265	543.53	0.00
2.60	0.00	265	543.53	0.00
2.80	0.00	265	543.53	0.00
3.00	0.00	265	543.53	0.00
3.20	0.00	265	543.53	0.00
3.40	0.00	265	543.53	0.00
3.60	0.00	265	543.53	0.00
3.80	0.00	265	543.53	0.00
4.00	0.00	265	543.53	0.00
4.20	0.00	265	543.53	0.00
4.40	0.00	265	543.53	0.00
4.60	0.00	265	543.53	0.00
4.80	0.00	265	543.53	0.00
5.00	0.00	265	543.53	0.00
5.20	0.00	265	543.53	0.00
5.40	0.00	265	543.53	0.00
5.60	0.00	265	543.53	0.00
5.80	0.00	265	543.53	0.00
6.00	0.00	265	543.53	0.00
6.20	0.00	265	543.53	0.00
6.40	0.00	265	543.53	0.00
6.60	0.00	265	543.53	0.00
6.80	0.00	265	543.53	0.00
7.00	0.00	265	543.53	0.00
7.20	0.00	265	543.53	0.00
7.40	0.00	265	543.53	0.00
7.60	0.00	265	543.53	0.00
7.80	0.00	265	543.53	0.00
8.00	0.00	265	543.53	0.00
8.20	0.00	265	543.53	0.00
8.40	0.00	265	543.53	0.00
8.60	0.00	265	543.53	0.00
8.80	0.00	265	543.53	0.00
9.00	0.00	265	543.53	0.00
9.20	0.00	265	543.53	0.00
9.40	0.00	265	543.53	0.00
9.60	0.00	265	543.53	0.00
9.80	0.00	265	543.53	0.00
10.00	0.00	265	543.53	0.00
10.20	0.00	265	543.53	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	265	543.53	0.00
10.60	0.00	265	543.53	0.00
10.80	0.00	265	543.53	0.00
11.00	0.00	265	543.53	0.00
11.20	0.00	265	543.53	0.00
11.40	0.00	265	543.53	0.00
11.60	0.00	265	543.53	0.00
11.80	0.00	265	543.53	0.00
12.00	0.00	265	543.53	0.00
12.20	0.00	265	543.53	0.00
12.40	0.00	265	543.53	0.00
12.60	0.00	265	543.53	0.00
12.80	0.00	265	543.53	0.00
13.00	0.00	265	543.53	0.00
13.20	0.00	265	543.53	0.00
13.40	0.00	265	543.53	0.00
13.60	0.00	265	543.53	0.00
13.80	0.00	265	543.53	0.00
14.00	0.00	265	543.53	0.00
14.20	0.00	265	543.53	0.00
14.40	0.00	265	543.53	0.00
14.60	0.00	265	543.53	0.00
14.80	0.00	265	543.53	0.00
15.00	0.00	265	543.53	0.00
15.20	0.00	265	543.53	0.00
15.40	0.00	265	543.53	0.00
15.60	0.00	265	543.53	0.00
15.80	0.00	265	543.53	0.00
16.00	0.00	265	543.53	0.00
16.20	0.00	265	543.53	0.00
16.40	0.00	265	543.53	0.00
16.60	0.00	265	543.53	0.00
16.80	0.00	265	543.53	0.00
17.00	0.00	265	543.53	0.00
17.20	0.00	265	543.53	0.00
17.40	0.00	265	543.53	0.00
17.60	0.00	265	543.53	0.00
17.80	0.00	265	543.53	0.00
18.00	0.00	265	543.53	0.00
18.20	0.00	265	543.53	0.00
18.40	0.00	265	543.53	0.00
18.60	0.00	265	543.53	0.00
18.80	0.00	265	543.53	0.00
19.00	0.00	265	543.53	0.00
19.20	0.00	265	543.53	0.00
19.40	0.00	265	543.53	0.00
19.60	0.00	265	543.53	0.00
19.80	0.00	265	543.53	0.00
20.00	0.00	265	543.53	0.00
20.20	0.00	265	543.53	0.00
20.40	0.00	265	543.53	0.00
20.60	0.00	265	543.53	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	265	543.53	0.00
21.00	0.00	265	543.53	0.00
21.20	0.00	265	543.53	0.00
21.40	0.00	265	543.53	0.00
21.60	0.00	265	543.53	0.00
21.80	0.00	265	543.53	0.00
22.00	0.00	265	543.53	0.00
22.20	0.00	265	543.53	0.00
22.40	0.00	265	543.53	0.00
22.60	0.00	265	543.53	0.00
22.80	0.00	265	543.53	0.00
23.00	0.00	265	543.53	0.00
23.20	0.00	265	543.53	0.00
23.40	0.00	265	543.53	0.00
23.60	0.00	265	543.53	0.00
23.80	0.00	265	543.53	0.00
24.00	0.00	265	543.53	0.00
24.20	0.00	265	543.53	0.00
24.40	0.00	265	543.53	0.00
24.60	0.00	265	543.53	0.00
24.80	0.00	265	543.53	0.00
25.00	0.00	265	543.53	0.00
25.20	0.00	265	543.53	0.00
25.40	0.00	265	543.53	0.00
25.60	0.00	265	543.53	0.00
25.80	0.00	265	543.53	0.00
26.00	0.00	265	543.53	0.00
26.20	0.00	265	543.53	0.00
26.40	0.00	265	543.53	0.00
26.60	0.00	265	543.53	0.00
26.80	0.00	265	543.53	0.00
27.00	0.00	265	543.53	0.00
27.20	0.00	265	543.53	0.00
27.40	0.00	265	543.53	0.00
27.60	0.00	265	543.53	0.00
27.80	0.00	265	543.53	0.00
28.00	0.00	265	543.53	0.00
28.20	0.00	265	543.53	0.00
28.40	0.00	265	543.53	0.00
28.60	0.00	265	543.53	0.00
28.80	0.00	265	543.53	0.00
29.00	0.00	265	543.53	0.00
29.20	0.00	265	543.53	0.00
29.40	0.00	265	543.53	0.00
29.60	0.00	265	543.53	0.00
29.80	0.00	265	543.53	0.00
30.00	0.00	265	543.53	0.00
30.20	0.00	265	543.53	0.00
30.40	0.00	265	543.53	0.00
30.60	0.00	265	543.53	0.00
30.80	0.00	265	543.53	0.00
31.00	0.00	265	543.53	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	265	543.53	0.00
31.40	0.00	265	543.53	0.00
31.60	0.00	265	543.53	0.00
31.80	0.00	265	543.53	0.00
32.00	0.00	265	543.53	0.00
32.20	0.00	265	543.53	0.00
32.40	0.00	265	543.53	0.00
32.60	0.00	265	543.53	0.00
32.80	0.00	265	543.53	0.00
33.00	0.00	265	543.53	0.00
33.20	0.00	265	543.53	0.00
33.40	0.00	265	543.53	0.00
33.60	0.00	265	543.53	0.00
33.80	0.00	265	543.53	0.00
34.00	0.00	265	543.53	0.00
34.20	0.00	265	543.53	0.00
34.40	0.00	265	543.53	0.00
34.60	0.00	265	543.53	0.00
34.80	0.00	265	543.53	0.00
35.00	0.00	265	543.53	0.00
35.20	0.00	265	543.53	0.00
35.40	0.00	265	543.53	0.00
35.60	0.00	265	543.53	0.00
35.80	0.00	265	543.53	0.00
36.00	0.00	265	543.53	0.00
36.20	0.00	265	543.53	0.00
36.40	0.00	265	543.53	0.00
36.60	0.00	265	543.53	0.00
36.80	0.00	265	543.53	0.00
37.00	0.00	265	543.53	0.00
37.20	0.00	265	543.53	0.00
37.40	0.00	265	543.53	0.00
37.60	0.00	265	543.53	0.00
37.80	0.00	265	543.53	0.00
38.00	0.00	265	543.53	0.00
38.20	0.00	265	543.53	0.00
38.40	0.00	265	543.53	0.00
38.60	0.00	265	543.53	0.00
38.80	0.00	265	543.53	0.00
39.00	0.00	265	543.53	0.00
39.20	0.00	265	543.53	0.00
39.40	0.00	265	543.53	0.00
39.60	0.00	265	543.53	0.00
39.80	0.00	265	543.53	0.00
40.00	0.00	265	543.53	0.00
40.20	0.00	265	543.53	0.00
40.40	0.00	265	543.53	0.00
40.60	0.00	265	543.53	0.00
40.80	0.00	265	543.53	0.00
41.00	0.00	265	543.53	0.00
41.20	0.00	265	543.53	0.00
41.40	0.00	265	543.53	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	265	543.53	0.00
41.80	0.00	265	543.53	0.00
42.00	0.00	265	543.53	0.00
42.20	0.00	265	543.53	0.00
42.40	0.00	265	543.53	0.00
42.60	0.00	265	543.53	0.00
42.80	0.00	265	543.53	0.00
43.00	0.00	265	543.53	0.00
43.20	0.00	265	543.53	0.00
43.40	0.00	265	543.53	0.00
43.60	0.00	265	543.53	0.00
43.80	0.00	265	543.53	0.00
44.00	0.00	265	543.53	0.00
44.20	0.00	265	543.53	0.00
44.40	0.00	265	543.53	0.00
44.60	0.00	265	543.53	0.00
44.80	0.00	265	543.53	0.00
45.00	0.00	265	543.53	0.00
45.20	0.00	265	543.53	0.00
45.40	0.00	265	543.53	0.00
45.60	0.00	265	543.53	0.00
45.80	0.00	265	543.53	0.00
46.00	0.00	265	543.53	0.00
46.20	0.00	265	543.53	0.00
46.40	0.00	265	543.53	0.00
46.60	0.00	265	543.53	0.00
46.80	0.00	265	543.53	0.00
47.00	0.00	265	543.53	0.00
47.20	0.00	265	543.53	0.00
47.40	0.00	265	543.53	0.00
47.60	0.00	265	543.53	0.00
47.80	0.00	265	543.53	0.00
48.00	0.00	265	543.53	0.00
48.20	0.00	265	543.53	0.00
48.40	0.00	265	543.53	0.00
48.60	0.00	265	543.53	0.00
48.80	0.00	265	543.53	0.00
49.00	0.00	265	543.53	0.00
49.20	0.00	265	543.53	0.00
49.40	0.00	265	543.53	0.00
49.60	0.00	265	543.53	0.00
49.80	0.00	265	543.53	0.00
50.00	0.00	265	543.53	0.00
50.20	0.00	265	543.53	0.00
50.40	0.00	265	543.53	0.00
50.60	0.00	265	543.53	0.00
50.80	0.00	265	543.53	0.00
51.00	0.00	265	543.53	0.00
51.20	0.00	265	543.53	0.00
51.40	0.00	265	543.53	0.00
51.60	0.00	265	543.53	0.00
51.80	0.00	265	543.53	0.00



**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	265	543.53	0.00
52.20	0.00	265	543.53	0.00
52.40	0.00	265	543.53	0.00
52.60	0.00	265	543.53	0.00
52.80	0.00	265	543.53	0.00
53.00	0.00	265	543.53	0.00
53.20	0.00	265	543.53	0.00
53.40	0.00	265	543.53	0.00
53.60	0.00	265	543.53	0.00
53.80	0.00	265	543.53	0.00
54.00	0.00	265	543.53	0.00
54.20	0.00	265	543.53	0.00
54.40	0.00	265	543.53	0.00
54.60	0.00	265	543.53	0.00
54.80	0.00	265	543.53	0.00
55.00	0.00	265	543.53	0.00
55.20	0.00	265	543.53	0.00
55.40	0.00	265	543.53	0.00
55.60	0.00	265	543.53	0.00
55.80	0.00	265	543.53	0.00
56.00	0.00	265	543.53	0.00
56.20	0.00	265	543.53	0.00
56.40	0.00	265	543.53	0.00
56.60	0.00	265	543.53	0.00
56.80	0.00	265	543.53	0.00
57.00	0.00	265	543.53	0.00
57.20	0.00	265	543.53	0.00
57.40	0.00	265	543.53	0.00
57.60	0.00	265	543.53	0.00
57.80	0.00	265	543.53	0.00
58.00	0.00	265	543.53	0.00
58.20	0.00	265	543.53	0.00
58.40	0.00	265	543.53	0.00
58.60	0.00	265	543.53	0.00
58.80	0.00	265	543.53	0.00
59.00	0.00	265	543.53	0.00
59.20	0.00	265	543.53	0.00
59.40	0.00	265	543.53	0.00
59.60	0.00	265	543.53	0.00
59.80	0.00	265	543.53	0.00
60.00	0.00	265	543.53	0.00
60.20	0.00	265	543.53	0.00
60.40	0.00	265	543.53	0.00
60.60	0.00	265	543.53	0.00
60.80	0.00	265	543.53	0.00
61.00	0.00	265	543.53	0.00
61.20	0.00	265	543.53	0.00
61.40	0.00	265	543.53	0.00
61.60	0.00	265	543.53	0.00
61.80	0.00	265	543.53	0.00
62.00	0.00	265	543.53	0.00
62.20	0.00	265	543.53	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	265	543.53	0.00
62.60	0.00	265	543.53	0.00
62.80	0.00	265	543.53	0.00
63.00	0.00	265	543.53	0.00
63.20	0.00	265	543.53	0.00
63.40	0.00	265	543.53	0.00
63.60	0.00	265	543.53	0.00
63.80	0.00	265	543.53	0.00
64.00	0.00	265	543.53	0.00
64.20	0.00	265	543.53	0.00
64.40	0.00	265	543.53	0.00
64.60	0.00	265	543.53	0.00
64.80	0.00	265	543.53	0.00
65.00	0.00	265	543.53	0.00
65.20	0.00	265	543.53	0.00
65.40	0.00	265	543.53	0.00
65.60	0.00	265	543.53	0.00
65.80	0.00	265	543.53	0.00
66.00	0.00	265	543.53	0.00
66.20	0.00	265	543.53	0.00
66.40	0.00	265	543.53	0.00
66.60	0.00	265	543.53	0.00
66.80	0.00	265	543.53	0.00
67.00	0.00	265	543.53	0.00
67.20	0.00	265	543.53	0.00
67.40	0.00	265	543.53	0.00
67.60	0.00	265	543.53	0.00
67.80	0.00	265	543.53	0.00
68.00	0.00	265	543.53	0.00
68.20	0.00	265	543.53	0.00
68.40	0.00	265	543.53	0.00
68.60	0.00	265	543.53	0.00
68.80	0.00	265	543.53	0.00
69.00	0.00	265	543.53	0.00
69.20	0.00	265	543.53	0.00
69.40	0.00	265	543.53	0.00
69.60	0.00	265	543.53	0.00
69.80	0.00	265	543.53	0.00
70.00	0.00	265	543.53	0.00
70.20	0.00	265	543.53	0.00
70.40	0.00	265	543.53	0.00
70.60	0.00	265	543.53	0.00
70.80	0.00	265	543.53	0.00
71.00	0.00	265	543.53	0.00
71.20	0.00	265	543.53	0.00
71.40	0.00	265	543.53	0.00
71.60	0.00	265	543.53	0.00
71.80	0.00	265	543.53	0.00
72.00	0.00	265	543.53	0.00

**Stage-Area-Storage for Pond PV-8: Pervious Pavers 8**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.34	3,564	0	543.86	3,564	741
543.35	3,564	14	543.87	3,564	756
543.36	3,564	29	543.88	3,564	770
543.37	3,564	43	543.89	3,564	784
543.38	3,564	57	543.90	3,564	798
543.39	3,564	71	543.91	3,564	813
543.40	3,564	86	543.92	3,564	827
543.41	3,564	100	543.93	3,564	841
543.42	3,564	114	543.94	3,564	855
543.43	3,564	128	543.95	3,564	870
543.44	3,564	143	543.96	3,564	884
543.45	3,564	157	543.97	3,564	898
543.46	3,564	171	543.98	3,564	912
543.47	3,564	185	543.99	3,564	927
543.48	3,564	200	544.00	3,564	941
543.49	3,564	214	544.01	3,564	955
543.50	3,564	228	544.02	3,564	969
543.51	3,564	242	544.03	3,564	984
543.52	3,564	257	544.04	3,564	998
543.53	3,564	271	544.05	3,564	1,012
543.54	3,564	285	544.06	3,564	1,026
543.55	3,564	299	544.07	3,564	1,041
543.56	3,564	314	544.08	3,564	1,055
543.57	3,564	328	544.09	3,564	1,069
543.58	3,564	342	544.10	3,564	1,083
543.59	3,564	356	544.11	3,564	1,098
543.60	3,564	371	544.12	3,564	1,112
543.61	3,564	385	544.13	3,564	1,126
543.62	3,564	399	544.14	3,564	1,140
543.63	3,564	413	544.15	3,564	1,155
543.64	3,564	428	544.16	3,564	1,169
543.65	3,564	442	544.17	3,564	1,183
543.66	3,564	456	544.18	3,564	1,198
543.67	3,564	470	544.19	3,564	1,212
543.68	3,564	485	544.20	3,564	1,226
543.69	3,564	499	544.21	3,564	1,240
543.70	3,564	513	544.22	3,564	1,255
543.71	3,564	527	544.23	3,564	1,269
543.72	3,564	542	544.24	3,564	1,283
543.73	3,564	556	544.25	3,564	1,297
543.74	3,564	570	544.26	3,564	1,312
543.75	3,564	584	544.27	3,564	1,326
543.76	3,564	599	544.28	3,564	1,340
543.77	3,564	613	544.29	3,564	1,354
543.78	3,564	627	544.30	3,564	1,369
543.79	3,564	642	544.31	3,564	1,383
543.80	3,564	656	544.32	3,564	1,397
543.81	3,564	670	544.33	3,564	1,411
543.82	3,564	684	544.34	3,564	1,426
543.83	3,564	699	544.35	3,564	1,440
543.84	3,564	713	544.36	3,564	1,454
543.85	3,564	727	544.37	3,564	1,468

**Stage-Area-Storage for Pond PV-8: Pervious Pavers 8 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.38	3,564	1,483
544.39	3,564	1,497
544.40	3,564	1,511
544.41	3,564	1,525
544.42	3,564	1,540
544.43	3,564	1,554
544.44	3,564	1,568
544.45	3,564	1,582
544.46	3,564	1,597
544.47	3,564	1,611
544.48	3,564	1,625
544.49	3,564	1,639
544.50	3,564	1,654
544.51	3,564	1,668
544.52	3,564	1,682
544.53	3,564	1,696
544.54	3,564	1,711
544.55	3,564	1,725
544.56	3,564	1,739
544.57	3,564	1,753
544.58	3,564	<b>1,768</b>

**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 0.60" for WQV event  
 Inflow = 0.36 cfs @ 1.09 hrs, Volume= 408 cf  
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 100%, Lag= 0.0 min  
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 543.12' @ 2.12 hrs Surf.Area= 3,564 sf Storage= 408 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	542.83'	2,495 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,237 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.83	3,564	0	0
544.58	3,564	6,237	6,237

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.50'	<b>4.0" Vert. Underdrain X 0.00</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=542.83' TW=0.00' (Dynamic Tailwater)

↑1=Culvert (Passes 0.00 cfs of 0.85 cfs potential flow)

↑2=Underdrain ( Controls 0.00 cfs)

**Hydrograph for Pond PV-9: Pervious Pavers 9**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.83	<b>0.00</b>
0.20	0.00	0	542.83	0.00
0.40	0.00	1	542.83	0.00
0.60	0.02	8	542.84	0.00
0.80	0.04	23	542.85	0.00
1.00	<b>0.28</b>	104	542.90	0.00
1.20	<b>0.11</b>	286	543.03	0.00
1.40	0.05	335	543.06	0.00
1.60	0.04	369	543.09	0.00
1.80	0.02	396	543.11	0.00
2.00	0.01	<b>406</b>	<b>543.11</b>	0.00
2.20	0.00	<b>408</b>	<b>543.12</b>	0.00
2.40	0.00	408	543.12	0.00
2.60	0.00	408	543.12	0.00
2.80	0.00	408	543.12	0.00
3.00	0.00	408	543.12	0.00
3.20	0.00	408	543.12	0.00
3.40	0.00	408	543.12	0.00
3.60	0.00	408	543.12	0.00
3.80	0.00	408	543.12	0.00
4.00	0.00	408	543.12	0.00
4.20	0.00	408	543.12	0.00
4.40	0.00	408	543.12	0.00
4.60	0.00	408	543.12	0.00
4.80	0.00	408	543.12	0.00
5.00	0.00	408	543.12	0.00
5.20	0.00	408	543.12	0.00
5.40	0.00	408	543.12	0.00
5.60	0.00	408	543.12	0.00
5.80	0.00	408	543.12	0.00
6.00	0.00	408	543.12	0.00
6.20	0.00	408	543.12	0.00
6.40	0.00	408	543.12	0.00
6.60	0.00	408	543.12	0.00
6.80	0.00	408	543.12	0.00
7.00	0.00	408	543.12	0.00
7.20	0.00	408	543.12	0.00
7.40	0.00	408	543.12	0.00
7.60	0.00	408	543.12	0.00
7.80	0.00	408	543.12	0.00
8.00	0.00	408	543.12	0.00
8.20	0.00	408	543.12	0.00
8.40	0.00	408	543.12	0.00
8.60	0.00	408	543.12	0.00
8.80	0.00	408	543.12	0.00
9.00	0.00	408	543.12	0.00
9.20	0.00	408	543.12	0.00
9.40	0.00	408	543.12	0.00
9.60	0.00	408	543.12	0.00
9.80	0.00	408	543.12	0.00
10.00	0.00	408	543.12	0.00
10.20	0.00	408	543.12	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.00	408	543.12	0.00
10.60	0.00	408	543.12	0.00
10.80	0.00	408	543.12	0.00
11.00	0.00	408	543.12	0.00
11.20	0.00	408	543.12	0.00
11.40	0.00	408	543.12	0.00
11.60	0.00	408	543.12	0.00
11.80	0.00	408	543.12	0.00
12.00	0.00	408	543.12	0.00
12.20	0.00	408	543.12	0.00
12.40	0.00	408	543.12	0.00
12.60	0.00	408	543.12	0.00
12.80	0.00	408	543.12	0.00
13.00	0.00	408	543.12	0.00
13.20	0.00	408	543.12	0.00
13.40	0.00	408	543.12	0.00
13.60	0.00	408	543.12	0.00
13.80	0.00	408	543.12	0.00
14.00	0.00	408	543.12	0.00
14.20	0.00	408	543.12	0.00
14.40	0.00	408	543.12	0.00
14.60	0.00	408	543.12	0.00
14.80	0.00	408	543.12	0.00
15.00	0.00	408	543.12	0.00
15.20	0.00	408	543.12	0.00
15.40	0.00	408	543.12	0.00
15.60	0.00	408	543.12	0.00
15.80	0.00	408	543.12	0.00
16.00	0.00	408	543.12	0.00
16.20	0.00	408	543.12	0.00
16.40	0.00	408	543.12	0.00
16.60	0.00	408	543.12	0.00
16.80	0.00	408	543.12	0.00
17.00	0.00	408	543.12	0.00
17.20	0.00	408	543.12	0.00
17.40	0.00	408	543.12	0.00
17.60	0.00	408	543.12	0.00
17.80	0.00	408	543.12	0.00
18.00	0.00	408	543.12	0.00
18.20	0.00	408	543.12	0.00
18.40	0.00	408	543.12	0.00
18.60	0.00	408	543.12	0.00
18.80	0.00	408	543.12	0.00
19.00	0.00	408	543.12	0.00
19.20	0.00	408	543.12	0.00
19.40	0.00	408	543.12	0.00
19.60	0.00	408	543.12	0.00
19.80	0.00	408	543.12	0.00
20.00	0.00	408	543.12	0.00
20.20	0.00	408	543.12	0.00
20.40	0.00	408	543.12	0.00
20.60	0.00	408	543.12	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.00	408	543.12	0.00
21.00	0.00	408	543.12	0.00
21.20	0.00	408	543.12	0.00
21.40	0.00	408	543.12	0.00
21.60	0.00	408	543.12	0.00
21.80	0.00	408	543.12	0.00
22.00	0.00	408	543.12	0.00
22.20	0.00	408	543.12	0.00
22.40	0.00	408	543.12	0.00
22.60	0.00	408	543.12	0.00
22.80	0.00	408	543.12	0.00
23.00	0.00	408	543.12	0.00
23.20	0.00	408	543.12	0.00
23.40	0.00	408	543.12	0.00
23.60	0.00	408	543.12	0.00
23.80	0.00	408	543.12	0.00
24.00	0.00	408	543.12	0.00
24.20	0.00	408	543.12	0.00
24.40	0.00	408	543.12	0.00
24.60	0.00	408	543.12	0.00
24.80	0.00	408	543.12	0.00
25.00	0.00	408	543.12	0.00
25.20	0.00	408	543.12	0.00
25.40	0.00	408	543.12	0.00
25.60	0.00	408	543.12	0.00
25.80	0.00	408	543.12	0.00
26.00	0.00	408	543.12	0.00
26.20	0.00	408	543.12	0.00
26.40	0.00	408	543.12	0.00
26.60	0.00	408	543.12	0.00
26.80	0.00	408	543.12	0.00
27.00	0.00	408	543.12	0.00
27.20	0.00	408	543.12	0.00
27.40	0.00	408	543.12	0.00
27.60	0.00	408	543.12	0.00
27.80	0.00	408	543.12	0.00
28.00	0.00	408	543.12	0.00
28.20	0.00	408	543.12	0.00
28.40	0.00	408	543.12	0.00
28.60	0.00	408	543.12	0.00
28.80	0.00	408	543.12	0.00
29.00	0.00	408	543.12	0.00
29.20	0.00	408	543.12	0.00
29.40	0.00	408	543.12	0.00
29.60	0.00	408	543.12	0.00
29.80	0.00	408	543.12	0.00
30.00	0.00	408	543.12	0.00
30.20	0.00	408	543.12	0.00
30.40	0.00	408	543.12	0.00
30.60	0.00	408	543.12	0.00
30.80	0.00	408	543.12	0.00
31.00	0.00	408	543.12	0.00



**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	408	543.12	0.00
31.40	0.00	408	543.12	0.00
31.60	0.00	408	543.12	0.00
31.80	0.00	408	543.12	0.00
32.00	0.00	408	543.12	0.00
32.20	0.00	408	543.12	0.00
32.40	0.00	408	543.12	0.00
32.60	0.00	408	543.12	0.00
32.80	0.00	408	543.12	0.00
33.00	0.00	408	543.12	0.00
33.20	0.00	408	543.12	0.00
33.40	0.00	408	543.12	0.00
33.60	0.00	408	543.12	0.00
33.80	0.00	408	543.12	0.00
34.00	0.00	408	543.12	0.00
34.20	0.00	408	543.12	0.00
34.40	0.00	408	543.12	0.00
34.60	0.00	408	543.12	0.00
34.80	0.00	408	543.12	0.00
35.00	0.00	408	543.12	0.00
35.20	0.00	408	543.12	0.00
35.40	0.00	408	543.12	0.00
35.60	0.00	408	543.12	0.00
35.80	0.00	408	543.12	0.00
36.00	0.00	408	543.12	0.00
36.20	0.00	408	543.12	0.00
36.40	0.00	408	543.12	0.00
36.60	0.00	408	543.12	0.00
36.80	0.00	408	543.12	0.00
37.00	0.00	408	543.12	0.00
37.20	0.00	408	543.12	0.00
37.40	0.00	408	543.12	0.00
37.60	0.00	408	543.12	0.00
37.80	0.00	408	543.12	0.00
38.00	0.00	408	543.12	0.00
38.20	0.00	408	543.12	0.00
38.40	0.00	408	543.12	0.00
38.60	0.00	408	543.12	0.00
38.80	0.00	408	543.12	0.00
39.00	0.00	408	543.12	0.00
39.20	0.00	408	543.12	0.00
39.40	0.00	408	543.12	0.00
39.60	0.00	408	543.12	0.00
39.80	0.00	408	543.12	0.00
40.00	0.00	408	543.12	0.00
40.20	0.00	408	543.12	0.00
40.40	0.00	408	543.12	0.00
40.60	0.00	408	543.12	0.00
40.80	0.00	408	543.12	0.00
41.00	0.00	408	543.12	0.00
41.20	0.00	408	543.12	0.00
41.40	0.00	408	543.12	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	408	543.12	0.00
41.80	0.00	408	543.12	0.00
42.00	0.00	408	543.12	0.00
42.20	0.00	408	543.12	0.00
42.40	0.00	408	543.12	0.00
42.60	0.00	408	543.12	0.00
42.80	0.00	408	543.12	0.00
43.00	0.00	408	543.12	0.00
43.20	0.00	408	543.12	0.00
43.40	0.00	408	543.12	0.00
43.60	0.00	408	543.12	0.00
43.80	0.00	408	543.12	0.00
44.00	0.00	408	543.12	0.00
44.20	0.00	408	543.12	0.00
44.40	0.00	408	543.12	0.00
44.60	0.00	408	543.12	0.00
44.80	0.00	408	543.12	0.00
45.00	0.00	408	543.12	0.00
45.20	0.00	408	543.12	0.00
45.40	0.00	408	543.12	0.00
45.60	0.00	408	543.12	0.00
45.80	0.00	408	543.12	0.00
46.00	0.00	408	543.12	0.00
46.20	0.00	408	543.12	0.00
46.40	0.00	408	543.12	0.00
46.60	0.00	408	543.12	0.00
46.80	0.00	408	543.12	0.00
47.00	0.00	408	543.12	0.00
47.20	0.00	408	543.12	0.00
47.40	0.00	408	543.12	0.00
47.60	0.00	408	543.12	0.00
47.80	0.00	408	543.12	0.00
48.00	0.00	408	543.12	0.00
48.20	0.00	408	543.12	0.00
48.40	0.00	408	543.12	0.00
48.60	0.00	408	543.12	0.00
48.80	0.00	408	543.12	0.00
49.00	0.00	408	543.12	0.00
49.20	0.00	408	543.12	0.00
49.40	0.00	408	543.12	0.00
49.60	0.00	408	543.12	0.00
49.80	0.00	408	543.12	0.00
50.00	0.00	408	543.12	0.00
50.20	0.00	408	543.12	0.00
50.40	0.00	408	543.12	0.00
50.60	0.00	408	543.12	0.00
50.80	0.00	408	543.12	0.00
51.00	0.00	408	543.12	0.00
51.20	0.00	408	543.12	0.00
51.40	0.00	408	543.12	0.00
51.60	0.00	408	543.12	0.00
51.80	0.00	408	543.12	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	408	543.12	0.00
52.20	0.00	408	543.12	0.00
52.40	0.00	408	543.12	0.00
52.60	0.00	408	543.12	0.00
52.80	0.00	408	543.12	0.00
53.00	0.00	408	543.12	0.00
53.20	0.00	408	543.12	0.00
53.40	0.00	408	543.12	0.00
53.60	0.00	408	543.12	0.00
53.80	0.00	408	543.12	0.00
54.00	0.00	408	543.12	0.00
54.20	0.00	408	543.12	0.00
54.40	0.00	408	543.12	0.00
54.60	0.00	408	543.12	0.00
54.80	0.00	408	543.12	0.00
55.00	0.00	408	543.12	0.00
55.20	0.00	408	543.12	0.00
55.40	0.00	408	543.12	0.00
55.60	0.00	408	543.12	0.00
55.80	0.00	408	543.12	0.00
56.00	0.00	408	543.12	0.00
56.20	0.00	408	543.12	0.00
56.40	0.00	408	543.12	0.00
56.60	0.00	408	543.12	0.00
56.80	0.00	408	543.12	0.00
57.00	0.00	408	543.12	0.00
57.20	0.00	408	543.12	0.00
57.40	0.00	408	543.12	0.00
57.60	0.00	408	543.12	0.00
57.80	0.00	408	543.12	0.00
58.00	0.00	408	543.12	0.00
58.20	0.00	408	543.12	0.00
58.40	0.00	408	543.12	0.00
58.60	0.00	408	543.12	0.00
58.80	0.00	408	543.12	0.00
59.00	0.00	408	543.12	0.00
59.20	0.00	408	543.12	0.00
59.40	0.00	408	543.12	0.00
59.60	0.00	408	543.12	0.00
59.80	0.00	408	543.12	0.00
60.00	0.00	408	543.12	0.00
60.20	0.00	408	543.12	0.00
60.40	0.00	408	543.12	0.00
60.60	0.00	408	543.12	0.00
60.80	0.00	408	543.12	0.00
61.00	0.00	408	543.12	0.00
61.20	0.00	408	543.12	0.00
61.40	0.00	408	543.12	0.00
61.60	0.00	408	543.12	0.00
61.80	0.00	408	543.12	0.00
62.00	0.00	408	543.12	0.00
62.20	0.00	408	543.12	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	408	543.12	0.00
62.60	0.00	408	543.12	0.00
62.80	0.00	408	543.12	0.00
63.00	0.00	408	543.12	0.00
63.20	0.00	408	543.12	0.00
63.40	0.00	408	543.12	0.00
63.60	0.00	408	543.12	0.00
63.80	0.00	408	543.12	0.00
64.00	0.00	408	543.12	0.00
64.20	0.00	408	543.12	0.00
64.40	0.00	408	543.12	0.00
64.60	0.00	408	543.12	0.00
64.80	0.00	408	543.12	0.00
65.00	0.00	408	543.12	0.00
65.20	0.00	408	543.12	0.00
65.40	0.00	408	543.12	0.00
65.60	0.00	408	543.12	0.00
65.80	0.00	408	543.12	0.00
66.00	0.00	408	543.12	0.00
66.20	0.00	408	543.12	0.00
66.40	0.00	408	543.12	0.00
66.60	0.00	408	543.12	0.00
66.80	0.00	408	543.12	0.00
67.00	0.00	408	543.12	0.00
67.20	0.00	408	543.12	0.00
67.40	0.00	408	543.12	0.00
67.60	0.00	408	543.12	0.00
67.80	0.00	408	543.12	0.00
68.00	0.00	408	543.12	0.00
68.20	0.00	408	543.12	0.00
68.40	0.00	408	543.12	0.00
68.60	0.00	408	543.12	0.00
68.80	0.00	408	543.12	0.00
69.00	0.00	408	543.12	0.00
69.20	0.00	408	543.12	0.00
69.40	0.00	408	543.12	0.00
69.60	0.00	408	543.12	0.00
69.80	0.00	408	543.12	0.00
70.00	0.00	408	543.12	0.00
70.20	0.00	408	543.12	0.00
70.40	0.00	408	543.12	0.00
70.60	0.00	408	543.12	0.00
70.80	0.00	408	543.12	0.00
71.00	0.00	408	543.12	0.00
71.20	0.00	408	543.12	0.00
71.40	0.00	408	543.12	0.00
71.60	0.00	408	543.12	0.00
71.80	0.00	408	543.12	0.00
72.00	0.00	408	543.12	0.00

**Stage-Area-Storage for Pond PV-9: Pervious Pavers 9**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.83	3,564	0	543.35	3,564	741
542.84	3,564	14	543.36	3,564	756
542.85	3,564	29	543.37	3,564	770
542.86	3,564	43	543.38	3,564	784
542.87	3,564	57	543.39	3,564	798
542.88	3,564	71	543.40	3,564	813
542.89	3,564	86	543.41	3,564	827
542.90	3,564	100	543.42	3,564	841
542.91	3,564	114	543.43	3,564	855
542.92	3,564	128	543.44	3,564	870
542.93	3,564	143	543.45	3,564	884
542.94	3,564	157	543.46	3,564	898
542.95	3,564	171	543.47	3,564	912
542.96	3,564	185	543.48	3,564	927
542.97	3,564	200	543.49	3,564	941
542.98	3,564	214	543.50	3,564	955
542.99	3,564	228	543.51	3,564	969
543.00	3,564	242	543.52	3,564	984
543.01	3,564	257	543.53	3,564	998
543.02	3,564	271	543.54	3,564	1,012
543.03	3,564	285	543.55	3,564	1,026
543.04	3,564	299	543.56	3,564	1,041
543.05	3,564	314	543.57	3,564	1,055
543.06	3,564	328	543.58	3,564	1,069
543.07	3,564	342	543.59	3,564	1,083
543.08	3,564	356	543.60	3,564	1,098
543.09	3,564	371	543.61	3,564	1,112
543.10	3,564	385	543.62	3,564	1,126
543.11	3,564	399	543.63	3,564	1,140
543.12	3,564	413	543.64	3,564	1,155
543.13	3,564	428	543.65	3,564	1,169
543.14	3,564	442	543.66	3,564	1,183
543.15	3,564	456	543.67	3,564	1,198
543.16	3,564	470	543.68	3,564	1,212
543.17	3,564	485	543.69	3,564	1,226
543.18	3,564	499	543.70	3,564	1,240
543.19	3,564	513	543.71	3,564	1,255
543.20	3,564	527	543.72	3,564	1,269
543.21	3,564	542	543.73	3,564	1,283
543.22	3,564	556	543.74	3,564	1,297
543.23	3,564	570	543.75	3,564	1,312
543.24	3,564	584	543.76	3,564	1,326
543.25	3,564	599	543.77	3,564	1,340
543.26	3,564	613	543.78	3,564	1,354
543.27	3,564	627	543.79	3,564	1,369
543.28	3,564	642	543.80	3,564	1,383
543.29	3,564	656	543.81	3,564	1,397
543.30	3,564	670	543.82	3,564	1,411
543.31	3,564	684	543.83	3,564	1,426
543.32	3,564	699	543.84	3,564	1,440
543.33	3,564	713	543.85	3,564	1,454
543.34	3,564	727	543.86	3,564	1,468

**Stage-Area-Storage for Pond PV-9: Pervious Pavers 9 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.87	3,564	1,483	544.39	3,564	2,224
543.88	3,564	1,497	544.40	3,564	2,238
543.89	3,564	1,511	544.41	3,564	2,252
543.90	3,564	1,525	544.42	3,564	2,267
543.91	3,564	1,540	544.43	3,564	2,281
543.92	3,564	1,554	544.44	3,564	2,295
543.93	3,564	1,568	544.45	3,564	2,309
543.94	3,564	1,582	544.46	3,564	2,324
543.95	3,564	1,597	544.47	3,564	2,338
543.96	3,564	1,611	544.48	3,564	2,352
543.97	3,564	1,625	544.49	3,564	2,366
543.98	3,564	1,639	544.50	3,564	2,381
543.99	3,564	1,654	544.51	3,564	2,395
544.00	3,564	1,668	544.52	3,564	2,409
544.01	3,564	1,682	544.53	3,564	2,424
544.02	3,564	1,696	544.54	3,564	2,438
544.03	3,564	1,711	544.55	3,564	2,452
544.04	3,564	1,725	544.56	3,564	2,466
544.05	3,564	1,739	544.57	3,564	2,481
544.06	3,564	1,753	544.58	3,564	<b>2,495</b>
544.07	3,564	1,768			
544.08	3,564	1,782			
544.09	3,564	1,796			
544.10	3,564	1,811			
544.11	3,564	1,825			
544.12	3,564	1,839			
544.13	3,564	1,853			
544.14	3,564	1,868			
544.15	3,564	1,882			
544.16	3,564	1,896			
544.17	3,564	1,910			
544.18	3,564	1,925			
544.19	3,564	1,939			
544.20	3,564	1,953			
544.21	3,564	1,967			
544.22	3,564	1,982			
544.23	3,564	1,996			
544.24	3,564	2,010			
544.25	3,564	2,024			
544.26	3,564	2,039			
544.27	3,564	2,053			
544.28	3,564	2,067			
544.29	3,564	2,081			
544.30	3,564	2,096			
544.31	3,564	2,110			
544.32	3,564	2,124			
544.33	3,564	2,138			
544.34	3,564	2,153			
544.35	3,564	2,167			
544.36	3,564	2,181			
544.37	3,564	2,195			
544.38	3,564	2,210			

**Summary for Link P-1C: Proposed Pavers 7-11**

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 0.00" for WQV event  
Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

**Hydrograph for Link P-1C: Proposed Pavers 7-11**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	5.20	0.00	0.00	0.00
0.10	0.00	0.00	0.00	5.30	0.00	0.00	0.00
0.20	0.00	0.00	0.00	5.40	0.00	0.00	0.00
0.30	0.00	0.00	0.00	5.50	0.00	0.00	0.00
0.40	0.00	0.00	0.00	5.60	0.00	0.00	0.00
0.50	0.00	0.00	0.00	5.70	0.00	0.00	0.00
0.60	0.00	0.00	0.00	5.80	0.00	0.00	0.00
0.70	0.00	0.00	0.00	5.90	0.00	0.00	0.00
0.80	0.00	0.00	0.00	6.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	6.10	0.00	0.00	0.00
1.00	0.00	0.00	0.00	6.20	0.00	0.00	0.00
1.10	0.00	0.00	0.00	6.30	0.00	0.00	0.00
1.20	0.00	0.00	0.00	6.40	0.00	0.00	0.00
1.30	0.00	0.00	0.00	6.50	0.00	0.00	0.00
1.40	0.00	0.00	0.00	6.60	0.00	0.00	0.00
1.50	0.00	0.00	0.00	6.70	0.00	0.00	0.00
1.60	0.00	0.00	0.00	6.80	0.00	0.00	0.00
1.70	0.00	0.00	0.00	6.90	0.00	0.00	0.00
1.80	0.00	0.00	0.00	7.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	7.10	0.00	0.00	0.00
2.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00
2.10	0.00	0.00	0.00	7.30	0.00	0.00	0.00
2.20	0.00	0.00	0.00	7.40	0.00	0.00	0.00
2.30	0.00	0.00	0.00	7.50	0.00	0.00	0.00
2.40	0.00	0.00	0.00	7.60	0.00	0.00	0.00
2.50	0.00	0.00	0.00	7.70	0.00	0.00	0.00
2.60	0.00	0.00	0.00	7.80	0.00	0.00	0.00
2.70	0.00	0.00	0.00	7.90	0.00	0.00	0.00
2.80	0.00	0.00	0.00	8.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	8.10	0.00	0.00	0.00
3.00	0.00	0.00	0.00	8.20	0.00	0.00	0.00
3.10	0.00	0.00	0.00	8.30	0.00	0.00	0.00
3.20	0.00	0.00	0.00	8.40	0.00	0.00	0.00
3.30	0.00	0.00	0.00	8.50	0.00	0.00	0.00
3.40	0.00	0.00	0.00	8.60	0.00	0.00	0.00
3.50	0.00	0.00	0.00	8.70	0.00	0.00	0.00
3.60	0.00	0.00	0.00	8.80	0.00	0.00	0.00
3.70	0.00	0.00	0.00	8.90	0.00	0.00	0.00
3.80	0.00	0.00	0.00	9.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	9.10	0.00	0.00	0.00
4.00	0.00	0.00	0.00	9.20	0.00	0.00	0.00
4.10	0.00	0.00	0.00	9.30	0.00	0.00	0.00
4.20	0.00	0.00	0.00	9.40	0.00	0.00	0.00
4.30	0.00	0.00	0.00	9.50	0.00	0.00	0.00
4.40	0.00	0.00	0.00	9.60	0.00	0.00	0.00
4.50	0.00	0.00	0.00	9.70	0.00	0.00	0.00
4.60	0.00	0.00	0.00	9.80	0.00	0.00	0.00
4.70	0.00	0.00	0.00	9.90	0.00	0.00	0.00
4.80	0.00	0.00	0.00	10.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	10.10	0.00	0.00	0.00
5.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00
5.10	0.00	0.00	0.00	10.30	0.00	0.00	0.00



**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.00	0.00	0.00	15.60	0.00	0.00	0.00
10.50	0.00	0.00	0.00	15.70	0.00	0.00	0.00
10.60	0.00	0.00	0.00	15.80	0.00	0.00	0.00
10.70	0.00	0.00	0.00	15.90	0.00	0.00	0.00
10.80	0.00	0.00	0.00	16.00	0.00	0.00	0.00
10.90	0.00	0.00	0.00	16.10	0.00	0.00	0.00
11.00	0.00	0.00	0.00	16.20	0.00	0.00	0.00
11.10	0.00	0.00	0.00	16.30	0.00	0.00	0.00
11.20	0.00	0.00	0.00	16.40	0.00	0.00	0.00
11.30	0.00	0.00	0.00	16.50	0.00	0.00	0.00
11.40	0.00	0.00	0.00	16.60	0.00	0.00	0.00
11.50	0.00	0.00	0.00	16.70	0.00	0.00	0.00
11.60	0.00	0.00	0.00	16.80	0.00	0.00	0.00
11.70	0.00	0.00	0.00	16.90	0.00	0.00	0.00
11.80	0.00	0.00	0.00	17.00	0.00	0.00	0.00
11.90	0.00	0.00	0.00	17.10	0.00	0.00	0.00
12.00	0.00	0.00	0.00	17.20	0.00	0.00	0.00
12.10	0.00	0.00	0.00	17.30	0.00	0.00	0.00
12.20	0.00	0.00	0.00	17.40	0.00	0.00	0.00
12.30	0.00	0.00	0.00	17.50	0.00	0.00	0.00
12.40	0.00	0.00	0.00	17.60	0.00	0.00	0.00
12.50	0.00	0.00	0.00	17.70	0.00	0.00	0.00
12.60	0.00	0.00	0.00	17.80	0.00	0.00	0.00
12.70	0.00	0.00	0.00	17.90	0.00	0.00	0.00
12.80	0.00	0.00	0.00	18.00	0.00	0.00	0.00
12.90	0.00	0.00	0.00	18.10	0.00	0.00	0.00
13.00	0.00	0.00	0.00	18.20	0.00	0.00	0.00
13.10	0.00	0.00	0.00	18.30	0.00	0.00	0.00
13.20	0.00	0.00	0.00	18.40	0.00	0.00	0.00
13.30	0.00	0.00	0.00	18.50	0.00	0.00	0.00
13.40	0.00	0.00	0.00	18.60	0.00	0.00	0.00
13.50	0.00	0.00	0.00	18.70	0.00	0.00	0.00
13.60	0.00	0.00	0.00	18.80	0.00	0.00	0.00
13.70	0.00	0.00	0.00	18.90	0.00	0.00	0.00
13.80	0.00	0.00	0.00	19.00	0.00	0.00	0.00
13.90	0.00	0.00	0.00	19.10	0.00	0.00	0.00
14.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00
14.10	0.00	0.00	0.00	19.30	0.00	0.00	0.00
14.20	0.00	0.00	0.00	19.40	0.00	0.00	0.00
14.30	0.00	0.00	0.00	19.50	0.00	0.00	0.00
14.40	0.00	0.00	0.00	19.60	0.00	0.00	0.00
14.50	0.00	0.00	0.00	19.70	0.00	0.00	0.00
14.60	0.00	0.00	0.00	19.80	0.00	0.00	0.00
14.70	0.00	0.00	0.00	19.90	0.00	0.00	0.00
14.80	0.00	0.00	0.00	20.00	0.00	0.00	0.00
14.90	0.00	0.00	0.00	20.10	0.00	0.00	0.00
15.00	0.00	0.00	0.00	20.20	0.00	0.00	0.00
15.10	0.00	0.00	0.00	20.30	0.00	0.00	0.00
15.20	0.00	0.00	0.00	20.40	0.00	0.00	0.00
15.30	0.00	0.00	0.00	20.50	0.00	0.00	0.00
15.40	0.00	0.00	0.00	20.60	0.00	0.00	0.00
15.50	0.00	0.00	0.00	20.70	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.00	0.00	0.00	26.00	0.00	0.00	0.00
20.90	0.00	0.00	0.00	26.10	0.00	0.00	0.00
21.00	0.00	0.00	0.00	26.20	0.00	0.00	0.00
21.10	0.00	0.00	0.00	26.30	0.00	0.00	0.00
21.20	0.00	0.00	0.00	26.40	0.00	0.00	0.00
21.30	0.00	0.00	0.00	26.50	0.00	0.00	0.00
21.40	0.00	0.00	0.00	26.60	0.00	0.00	0.00
21.50	0.00	0.00	0.00	26.70	0.00	0.00	0.00
21.60	0.00	0.00	0.00	26.80	0.00	0.00	0.00
21.70	0.00	0.00	0.00	26.90	0.00	0.00	0.00
21.80	0.00	0.00	0.00	27.00	0.00	0.00	0.00
21.90	0.00	0.00	0.00	27.10	0.00	0.00	0.00
22.00	0.00	0.00	0.00	27.20	0.00	0.00	0.00
22.10	0.00	0.00	0.00	27.30	0.00	0.00	0.00
22.20	0.00	0.00	0.00	27.40	0.00	0.00	0.00
22.30	0.00	0.00	0.00	27.50	0.00	0.00	0.00
22.40	0.00	0.00	0.00	27.60	0.00	0.00	0.00
22.50	0.00	0.00	0.00	27.70	0.00	0.00	0.00
22.60	0.00	0.00	0.00	27.80	0.00	0.00	0.00
22.70	0.00	0.00	0.00	27.90	0.00	0.00	0.00
22.80	0.00	0.00	0.00	28.00	0.00	0.00	0.00
22.90	0.00	0.00	0.00	28.10	0.00	0.00	0.00
23.00	0.00	0.00	0.00	28.20	0.00	0.00	0.00
23.10	0.00	0.00	0.00	28.30	0.00	0.00	0.00
23.20	0.00	0.00	0.00	28.40	0.00	0.00	0.00
23.30	0.00	0.00	0.00	28.50	0.00	0.00	0.00
23.40	0.00	0.00	0.00	28.60	0.00	0.00	0.00
23.50	0.00	0.00	0.00	28.70	0.00	0.00	0.00
23.60	0.00	0.00	0.00	28.80	0.00	0.00	0.00
23.70	0.00	0.00	0.00	28.90	0.00	0.00	0.00
23.80	0.00	0.00	0.00	29.00	0.00	0.00	0.00
23.90	0.00	0.00	0.00	29.10	0.00	0.00	0.00
24.00	0.00	0.00	0.00	29.20	0.00	0.00	0.00
24.10	0.00	0.00	0.00	29.30	0.00	0.00	0.00
24.20	0.00	0.00	0.00	29.40	0.00	0.00	0.00
24.30	0.00	0.00	0.00	29.50	0.00	0.00	0.00
24.40	0.00	0.00	0.00	29.60	0.00	0.00	0.00
24.50	0.00	0.00	0.00	29.70	0.00	0.00	0.00
24.60	0.00	0.00	0.00	29.80	0.00	0.00	0.00
24.70	0.00	0.00	0.00	29.90	0.00	0.00	0.00
24.80	0.00	0.00	0.00	30.00	0.00	0.00	0.00
24.90	0.00	0.00	0.00	30.10	0.00	0.00	0.00
25.00	0.00	0.00	0.00	30.20	0.00	0.00	0.00
25.10	0.00	0.00	0.00	30.30	0.00	0.00	0.00
25.20	0.00	0.00	0.00	30.40	0.00	0.00	0.00
25.30	0.00	0.00	0.00	30.50	0.00	0.00	0.00
25.40	0.00	0.00	0.00	30.60	0.00	0.00	0.00
25.50	0.00	0.00	0.00	30.70	0.00	0.00	0.00
25.60	0.00	0.00	0.00	30.80	0.00	0.00	0.00
25.70	0.00	0.00	0.00	30.90	0.00	0.00	0.00
25.80	0.00	0.00	0.00	31.00	0.00	0.00	0.00
25.90	0.00	0.00	0.00	31.10	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
31.20	0.00	0.00	0.00	36.40	0.00	0.00	0.00
31.30	0.00	0.00	0.00	36.50	0.00	0.00	0.00
31.40	0.00	0.00	0.00	36.60	0.00	0.00	0.00
31.50	0.00	0.00	0.00	36.70	0.00	0.00	0.00
31.60	0.00	0.00	0.00	36.80	0.00	0.00	0.00
31.70	0.00	0.00	0.00	36.90	0.00	0.00	0.00
31.80	0.00	0.00	0.00	37.00	0.00	0.00	0.00
31.90	0.00	0.00	0.00	37.10	0.00	0.00	0.00
32.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00
32.10	0.00	0.00	0.00	37.30	0.00	0.00	0.00
32.20	0.00	0.00	0.00	37.40	0.00	0.00	0.00
32.30	0.00	0.00	0.00	37.50	0.00	0.00	0.00
32.40	0.00	0.00	0.00	37.60	0.00	0.00	0.00
32.50	0.00	0.00	0.00	37.70	0.00	0.00	0.00
32.60	0.00	0.00	0.00	37.80	0.00	0.00	0.00
32.70	0.00	0.00	0.00	37.90	0.00	0.00	0.00
32.80	0.00	0.00	0.00	38.00	0.00	0.00	0.00
32.90	0.00	0.00	0.00	38.10	0.00	0.00	0.00
33.00	0.00	0.00	0.00	38.20	0.00	0.00	0.00
33.10	0.00	0.00	0.00	38.30	0.00	0.00	0.00
33.20	0.00	0.00	0.00	38.40	0.00	0.00	0.00
33.30	0.00	0.00	0.00	38.50	0.00	0.00	0.00
33.40	0.00	0.00	0.00	38.60	0.00	0.00	0.00
33.50	0.00	0.00	0.00	38.70	0.00	0.00	0.00
33.60	0.00	0.00	0.00	38.80	0.00	0.00	0.00
33.70	0.00	0.00	0.00	38.90	0.00	0.00	0.00
33.80	0.00	0.00	0.00	39.00	0.00	0.00	0.00
33.90	0.00	0.00	0.00	39.10	0.00	0.00	0.00
34.00	0.00	0.00	0.00	39.20	0.00	0.00	0.00
34.10	0.00	0.00	0.00	39.30	0.00	0.00	0.00
34.20	0.00	0.00	0.00	39.40	0.00	0.00	0.00
34.30	0.00	0.00	0.00	39.50	0.00	0.00	0.00
34.40	0.00	0.00	0.00	39.60	0.00	0.00	0.00
34.50	0.00	0.00	0.00	39.70	0.00	0.00	0.00
34.60	0.00	0.00	0.00	39.80	0.00	0.00	0.00
34.70	0.00	0.00	0.00	39.90	0.00	0.00	0.00
34.80	0.00	0.00	0.00	40.00	0.00	0.00	0.00
34.90	0.00	0.00	0.00	40.10	0.00	0.00	0.00
35.00	0.00	0.00	0.00	40.20	0.00	0.00	0.00
35.10	0.00	0.00	0.00	40.30	0.00	0.00	0.00
35.20	0.00	0.00	0.00	40.40	0.00	0.00	0.00
35.30	0.00	0.00	0.00	40.50	0.00	0.00	0.00
35.40	0.00	0.00	0.00	40.60	0.00	0.00	0.00
35.50	0.00	0.00	0.00	40.70	0.00	0.00	0.00
35.60	0.00	0.00	0.00	40.80	0.00	0.00	0.00
35.70	0.00	0.00	0.00	40.90	0.00	0.00	0.00
35.80	0.00	0.00	0.00	41.00	0.00	0.00	0.00
35.90	0.00	0.00	0.00	41.10	0.00	0.00	0.00
36.00	0.00	0.00	0.00	41.20	0.00	0.00	0.00
36.10	0.00	0.00	0.00	41.30	0.00	0.00	0.00
36.20	0.00	0.00	0.00	41.40	0.00	0.00	0.00
36.30	0.00	0.00	0.00	41.50	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
41.60	0.00	0.00	0.00	46.80	0.00	0.00	0.00
41.70	0.00	0.00	0.00	46.90	0.00	0.00	0.00
41.80	0.00	0.00	0.00	47.00	0.00	0.00	0.00
41.90	0.00	0.00	0.00	47.10	0.00	0.00	0.00
42.00	0.00	0.00	0.00	47.20	0.00	0.00	0.00
42.10	0.00	0.00	0.00	47.30	0.00	0.00	0.00
42.20	0.00	0.00	0.00	47.40	0.00	0.00	0.00
42.30	0.00	0.00	0.00	47.50	0.00	0.00	0.00
42.40	0.00	0.00	0.00	47.60	0.00	0.00	0.00
42.50	0.00	0.00	0.00	47.70	0.00	0.00	0.00
42.60	0.00	0.00	0.00	47.80	0.00	0.00	0.00
42.70	0.00	0.00	0.00	47.90	0.00	0.00	0.00
42.80	0.00	0.00	0.00	48.00	0.00	0.00	0.00
42.90	0.00	0.00	0.00	48.10	0.00	0.00	0.00
43.00	0.00	0.00	0.00	48.20	0.00	0.00	0.00
43.10	0.00	0.00	0.00	48.30	0.00	0.00	0.00
43.20	0.00	0.00	0.00	48.40	0.00	0.00	0.00
43.30	0.00	0.00	0.00	48.50	0.00	0.00	0.00
43.40	0.00	0.00	0.00	48.60	0.00	0.00	0.00
43.50	0.00	0.00	0.00	48.70	0.00	0.00	0.00
43.60	0.00	0.00	0.00	48.80	0.00	0.00	0.00
43.70	0.00	0.00	0.00	48.90	0.00	0.00	0.00
43.80	0.00	0.00	0.00	49.00	0.00	0.00	0.00
43.90	0.00	0.00	0.00	49.10	0.00	0.00	0.00
44.00	0.00	0.00	0.00	49.20	0.00	0.00	0.00
44.10	0.00	0.00	0.00	49.30	0.00	0.00	0.00
44.20	0.00	0.00	0.00	49.40	0.00	0.00	0.00
44.30	0.00	0.00	0.00	49.50	0.00	0.00	0.00
44.40	0.00	0.00	0.00	49.60	0.00	0.00	0.00
44.50	0.00	0.00	0.00	49.70	0.00	0.00	0.00
44.60	0.00	0.00	0.00	49.80	0.00	0.00	0.00
44.70	0.00	0.00	0.00	49.90	0.00	0.00	0.00
44.80	0.00	0.00	0.00	50.00	0.00	0.00	0.00
44.90	0.00	0.00	0.00	50.10	0.00	0.00	0.00
45.00	0.00	0.00	0.00	50.20	0.00	0.00	0.00
45.10	0.00	0.00	0.00	50.30	0.00	0.00	0.00
45.20	0.00	0.00	0.00	50.40	0.00	0.00	0.00
45.30	0.00	0.00	0.00	50.50	0.00	0.00	0.00
45.40	0.00	0.00	0.00	50.60	0.00	0.00	0.00
45.50	0.00	0.00	0.00	50.70	0.00	0.00	0.00
45.60	0.00	0.00	0.00	50.80	0.00	0.00	0.00
45.70	0.00	0.00	0.00	50.90	0.00	0.00	0.00
45.80	0.00	0.00	0.00	51.00	0.00	0.00	0.00
45.90	0.00	0.00	0.00	51.10	0.00	0.00	0.00
46.00	0.00	0.00	0.00	51.20	0.00	0.00	0.00
46.10	0.00	0.00	0.00	51.30	0.00	0.00	0.00
46.20	0.00	0.00	0.00	51.40	0.00	0.00	0.00
46.30	0.00	0.00	0.00	51.50	0.00	0.00	0.00
46.40	0.00	0.00	0.00	51.60	0.00	0.00	0.00
46.50	0.00	0.00	0.00	51.70	0.00	0.00	0.00
46.60	0.00	0.00	0.00	51.80	0.00	0.00	0.00
46.70	0.00	0.00	0.00	51.90	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
52.00	0.00	0.00	0.00	57.20	0.00	0.00	0.00
52.10	0.00	0.00	0.00	57.30	0.00	0.00	0.00
52.20	0.00	0.00	0.00	57.40	0.00	0.00	0.00
52.30	0.00	0.00	0.00	57.50	0.00	0.00	0.00
52.40	0.00	0.00	0.00	57.60	0.00	0.00	0.00
52.50	0.00	0.00	0.00	57.70	0.00	0.00	0.00
52.60	0.00	0.00	0.00	57.80	0.00	0.00	0.00
52.70	0.00	0.00	0.00	57.90	0.00	0.00	0.00
52.80	0.00	0.00	0.00	58.00	0.00	0.00	0.00
52.90	0.00	0.00	0.00	58.10	0.00	0.00	0.00
53.00	0.00	0.00	0.00	58.20	0.00	0.00	0.00
53.10	0.00	0.00	0.00	58.30	0.00	0.00	0.00
53.20	0.00	0.00	0.00	58.40	0.00	0.00	0.00
53.30	0.00	0.00	0.00	58.50	0.00	0.00	0.00
53.40	0.00	0.00	0.00	58.60	0.00	0.00	0.00
53.50	0.00	0.00	0.00	58.70	0.00	0.00	0.00
53.60	0.00	0.00	0.00	58.80	0.00	0.00	0.00
53.70	0.00	0.00	0.00	58.90	0.00	0.00	0.00
53.80	0.00	0.00	0.00	59.00	0.00	0.00	0.00
53.90	0.00	0.00	0.00	59.10	0.00	0.00	0.00
54.00	0.00	0.00	0.00	59.20	0.00	0.00	0.00
54.10	0.00	0.00	0.00	59.30	0.00	0.00	0.00
54.20	0.00	0.00	0.00	59.40	0.00	0.00	0.00
54.30	0.00	0.00	0.00	59.50	0.00	0.00	0.00
54.40	0.00	0.00	0.00	59.60	0.00	0.00	0.00
54.50	0.00	0.00	0.00	59.70	0.00	0.00	0.00
54.60	0.00	0.00	0.00	59.80	0.00	0.00	0.00
54.70	0.00	0.00	0.00	59.90	0.00	0.00	0.00
54.80	0.00	0.00	0.00	60.00	0.00	0.00	0.00
54.90	0.00	0.00	0.00	60.10	0.00	0.00	0.00
55.00	0.00	0.00	0.00	60.20	0.00	0.00	0.00
55.10	0.00	0.00	0.00	60.30	0.00	0.00	0.00
55.20	0.00	0.00	0.00	60.40	0.00	0.00	0.00
55.30	0.00	0.00	0.00	60.50	0.00	0.00	0.00
55.40	0.00	0.00	0.00	60.60	0.00	0.00	0.00
55.50	0.00	0.00	0.00	60.70	0.00	0.00	0.00
55.60	0.00	0.00	0.00	60.80	0.00	0.00	0.00
55.70	0.00	0.00	0.00	60.90	0.00	0.00	0.00
55.80	0.00	0.00	0.00	61.00	0.00	0.00	0.00
55.90	0.00	0.00	0.00	61.10	0.00	0.00	0.00
56.00	0.00	0.00	0.00	61.20	0.00	0.00	0.00
56.10	0.00	0.00	0.00	61.30	0.00	0.00	0.00
56.20	0.00	0.00	0.00	61.40	0.00	0.00	0.00
56.30	0.00	0.00	0.00	61.50	0.00	0.00	0.00
56.40	0.00	0.00	0.00	61.60	0.00	0.00	0.00
56.50	0.00	0.00	0.00	61.70	0.00	0.00	0.00
56.60	0.00	0.00	0.00	61.80	0.00	0.00	0.00
56.70	0.00	0.00	0.00	61.90	0.00	0.00	0.00
56.80	0.00	0.00	0.00	62.00	0.00	0.00	0.00
56.90	0.00	0.00	0.00	62.10	0.00	0.00	0.00
57.00	0.00	0.00	0.00	62.20	0.00	0.00	0.00
57.10	0.00	0.00	0.00	62.30	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
62.40	0.00	0.00	0.00	67.60	0.00	0.00	0.00
62.50	0.00	0.00	0.00	67.70	0.00	0.00	0.00
62.60	0.00	0.00	0.00	67.80	0.00	0.00	0.00
62.70	0.00	0.00	0.00	67.90	0.00	0.00	0.00
62.80	0.00	0.00	0.00	68.00	0.00	0.00	0.00
62.90	0.00	0.00	0.00	68.10	0.00	0.00	0.00
63.00	0.00	0.00	0.00	68.20	0.00	0.00	0.00
63.10	0.00	0.00	0.00	68.30	0.00	0.00	0.00
63.20	0.00	0.00	0.00	68.40	0.00	0.00	0.00
63.30	0.00	0.00	0.00	68.50	0.00	0.00	0.00
63.40	0.00	0.00	0.00	68.60	0.00	0.00	0.00
63.50	0.00	0.00	0.00	68.70	0.00	0.00	0.00
63.60	0.00	0.00	0.00	68.80	0.00	0.00	0.00
63.70	0.00	0.00	0.00	68.90	0.00	0.00	0.00
63.80	0.00	0.00	0.00	69.00	0.00	0.00	0.00
63.90	0.00	0.00	0.00	69.10	0.00	0.00	0.00
64.00	0.00	0.00	0.00	69.20	0.00	0.00	0.00
64.10	0.00	0.00	0.00	69.30	0.00	0.00	0.00
64.20	0.00	0.00	0.00	69.40	0.00	0.00	0.00
64.30	0.00	0.00	0.00	69.50	0.00	0.00	0.00
64.40	0.00	0.00	0.00	69.60	0.00	0.00	0.00
64.50	0.00	0.00	0.00	69.70	0.00	0.00	0.00
64.60	0.00	0.00	0.00	69.80	0.00	0.00	0.00
64.70	0.00	0.00	0.00	69.90	0.00	0.00	0.00
64.80	0.00	0.00	0.00	70.00	0.00	0.00	0.00
64.90	0.00	0.00	0.00	70.10	0.00	0.00	0.00
65.00	0.00	0.00	0.00	70.20	0.00	0.00	0.00
65.10	0.00	0.00	0.00	70.30	0.00	0.00	0.00
65.20	0.00	0.00	0.00	70.40	0.00	0.00	0.00
65.30	0.00	0.00	0.00	70.50	0.00	0.00	0.00
65.40	0.00	0.00	0.00	70.60	0.00	0.00	0.00
65.50	0.00	0.00	0.00	70.70	0.00	0.00	0.00
65.60	0.00	0.00	0.00	70.80	0.00	0.00	0.00
65.70	0.00	0.00	0.00	70.90	0.00	0.00	0.00
65.80	0.00	0.00	0.00	71.00	0.00	0.00	0.00
65.90	0.00	0.00	0.00	71.10	0.00	0.00	0.00
66.00	0.00	0.00	0.00	71.20	0.00	0.00	0.00
66.10	0.00	0.00	0.00	71.30	0.00	0.00	0.00
66.20	0.00	0.00	0.00	71.40	0.00	0.00	0.00
66.30	0.00	0.00	0.00	71.50	0.00	0.00	0.00
66.40	0.00	0.00	0.00	71.60	0.00	0.00	0.00
66.50	0.00	0.00	0.00	71.70	0.00	0.00	0.00
66.60	0.00	0.00	0.00	71.80	0.00	0.00	0.00
66.70	0.00	0.00	0.00	71.90	0.00	0.00	0.00
66.80	0.00	0.00	0.00	72.00	0.00	0.00	0.00
66.90	0.00	0.00	0.00				
67.00	0.00	0.00	0.00				
67.10	0.00	0.00	0.00				
67.20	0.00	0.00	0.00				
67.30	0.00	0.00	0.00				
67.40	0.00	0.00	0.00				
67.50	0.00	0.00	0.00				

**Summary for Subcatchment P-1C-10: Area 10**

Runoff = 1.93 cfs @ 12.12 hrs, Volume= 6,453 cf, Depth= 6.99"  
 Routed to Pond PV-10 : Pervious Pavers 10

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
* 716	98	Impervious
* 3,912	98	MVS - Impervious
* 3,564	85	MVS - Pervious
880	74	>75% Grass cover, Good, HSG C
1,999	80	>75% Grass cover, Good, HSG D
11,071	89	Weighted Average
6,443	82	58.20% Pervious Area
4,628	98	41.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	38	0.0120	0.12		<b>Sheet Flow, 10c1-10c2</b> Grass: Short n= 0.150 P2= 3.54"

**Hydrograph for Subcatchment P-1C-10: Area 10**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.01
1.60	0.16	0.00	0.04	0.01
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.00	0.31	0.01
4.60	0.52	0.00	0.33	0.01
4.80	0.54	0.00	0.36	0.01
5.00	0.57	0.01	0.38	0.02
5.20	0.60	0.01	0.41	0.02
5.40	0.63	0.01	0.43	0.02
5.60	0.65	0.02	0.46	0.02
5.80	0.68	0.02	0.49	0.02
6.00	0.71	0.03	0.52	0.02
6.20	0.74	0.04	0.54	0.02
6.40	0.78	0.04	0.57	0.02
6.60	0.81	0.05	0.61	0.02
6.80	0.84	0.06	0.64	0.03
7.00	0.88	0.07	0.67	0.03
7.20	0.92	0.09	0.71	0.03
7.40	0.96	0.10	0.75	0.03
7.60	1.00	0.11	0.79	0.03
7.80	1.04	0.13	0.83	0.03
8.00	1.08	0.15	0.87	0.04
8.20	1.13	0.16	0.92	0.04
8.40	1.18	0.19	0.96	0.04
8.60	1.22	0.21	1.01	0.04
8.80	1.27	0.23	1.06	0.04
9.00	1.32	0.25	1.11	0.05
9.20	1.38	0.28	1.16	0.05
9.40	1.44	0.31	1.22	0.06
9.60	1.51	0.35	1.29	0.06
9.80	1.58	0.39	1.36	0.07
10.00	1.66	0.43	1.43	0.07
10.20	1.74	0.48	1.51	0.08



**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.54	1.60	0.09
10.60	1.92	0.60	1.70	0.10
10.80	2.04	0.67	1.81	0.12
11.00	2.17	0.76	1.94	0.14
11.20	2.34	0.88	2.11	0.18
11.40	2.53	1.02	2.31	0.22
11.60	2.80	1.22	2.57	0.31
11.80	3.18	1.52	2.94	0.46
12.00	4.00	2.20	3.77	<b>1.08</b>
12.20	5.17	3.24	4.94	<b>1.06</b>
12.40	5.55	3.58	5.31	0.42
12.60	5.82	3.82	5.58	0.30
12.80	6.01	4.00	5.78	0.24
13.00	6.18	4.15	5.94	0.20
13.20	6.31	4.28	6.08	0.16
13.40	6.43	4.38	6.19	0.14
13.60	6.53	4.47	6.29	0.12
13.80	6.61	4.55	6.37	0.11
14.00	6.69	4.63	6.46	0.10
14.20	6.77	4.70	6.53	0.09
14.40	6.84	4.77	6.60	0.09
14.60	6.91	4.83	6.67	0.08
14.80	6.97	4.89	6.73	0.07
15.00	7.03	4.94	6.79	0.07
15.20	7.08	4.99	6.84	0.06
15.40	7.13	5.03	6.89	0.06
15.60	7.17	5.08	6.94	0.06
15.80	7.22	5.12	6.98	0.06
16.00	7.27	5.17	7.03	0.06
16.20	7.31	5.21	7.07	0.05
16.40	7.35	5.25	7.11	0.05
16.60	7.39	5.29	7.15	0.05
16.80	7.43	5.32	7.19	0.05
17.00	7.47	5.36	7.23	0.05
17.20	7.51	5.39	7.27	0.04
17.40	7.54	5.43	7.30	0.04
17.60	7.57	5.46	7.34	0.04
17.80	7.61	5.49	7.37	0.04
18.00	7.64	5.52	7.40	0.04
18.20	7.67	5.54	7.43	0.04
18.40	7.70	5.57	7.46	0.04
18.60	7.72	5.60	7.48	0.04
18.80	7.75	5.62	7.51	0.03
19.00	7.78	5.65	7.54	0.03
19.20	7.81	5.68	7.57	0.03
19.40	7.83	5.70	7.59	0.03
19.60	7.86	5.73	7.62	0.03
19.80	7.89	5.75	7.65	0.03
20.00	7.91	5.78	7.67	0.03
20.20	7.94	5.80	7.70	0.03
20.40	7.96	5.82	7.72	0.03
20.60	7.99	5.85	7.75	0.03

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	5.87	7.77	0.03
21.00	8.04	5.89	7.80	0.03
21.20	8.06	5.92	7.82	0.03
21.40	8.08	5.94	7.84	0.03
21.60	8.11	5.96	7.87	0.03
21.80	8.13	5.98	7.89	0.03
22.00	8.15	6.00	7.91	0.03
22.20	8.17	6.02	7.93	0.03
22.40	8.19	6.04	7.95	0.03
22.60	8.21	6.06	7.97	0.03
22.80	8.23	6.08	7.99	0.03
23.00	8.25	6.10	8.01	0.03
23.20	8.27	6.12	8.03	0.02
23.40	8.29	6.14	8.05	0.02
23.60	8.31	6.16	8.07	0.02
23.80	8.33	6.18	8.09	0.02
24.00	<b>8.35</b>	<b>6.19</b>	<b>8.11</b>	0.02
24.20	8.35	6.19	8.11	0.00
24.40	8.35	6.19	8.11	0.00
24.60	8.35	6.19	8.11	0.00
24.80	8.35	6.19	8.11	0.00
25.00	8.35	6.19	8.11	0.00
25.20	8.35	6.19	8.11	0.00
25.40	8.35	6.19	8.11	0.00
25.60	8.35	6.19	8.11	0.00
25.80	8.35	6.19	8.11	0.00
26.00	8.35	6.19	8.11	0.00
26.20	8.35	6.19	8.11	0.00
26.40	8.35	6.19	8.11	0.00
26.60	8.35	6.19	8.11	0.00
26.80	8.35	6.19	8.11	0.00
27.00	8.35	6.19	8.11	0.00
27.20	8.35	6.19	8.11	0.00
27.40	8.35	6.19	8.11	0.00
27.60	8.35	6.19	8.11	0.00
27.80	8.35	6.19	8.11	0.00
28.00	8.35	6.19	8.11	0.00
28.20	8.35	6.19	8.11	0.00
28.40	8.35	6.19	8.11	0.00
28.60	8.35	6.19	8.11	0.00
28.80	8.35	6.19	8.11	0.00
29.00	8.35	6.19	8.11	0.00
29.20	8.35	6.19	8.11	0.00
29.40	8.35	6.19	8.11	0.00
29.60	8.35	6.19	8.11	0.00
29.80	8.35	6.19	8.11	0.00
30.00	8.35	6.19	8.11	0.00
30.20	8.35	6.19	8.11	0.00
30.40	8.35	6.19	8.11	0.00
30.60	8.35	6.19	8.11	0.00
30.80	8.35	6.19	8.11	0.00
31.00	8.35	6.19	8.11	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.19	8.11	0.00
31.40	8.35	6.19	8.11	0.00
31.60	8.35	6.19	8.11	0.00
31.80	8.35	6.19	8.11	0.00
32.00	8.35	6.19	8.11	0.00
32.20	8.35	6.19	8.11	0.00
32.40	8.35	6.19	8.11	0.00
32.60	8.35	6.19	8.11	0.00
32.80	8.35	6.19	8.11	0.00
33.00	8.35	6.19	8.11	0.00
33.20	8.35	6.19	8.11	0.00
33.40	8.35	6.19	8.11	0.00
33.60	8.35	6.19	8.11	0.00
33.80	8.35	6.19	8.11	0.00
34.00	8.35	6.19	8.11	0.00
34.20	8.35	6.19	8.11	0.00
34.40	8.35	6.19	8.11	0.00
34.60	8.35	6.19	8.11	0.00
34.80	8.35	6.19	8.11	0.00
35.00	8.35	6.19	8.11	0.00
35.20	8.35	6.19	8.11	0.00
35.40	8.35	6.19	8.11	0.00
35.60	8.35	6.19	8.11	0.00
35.80	8.35	6.19	8.11	0.00
36.00	8.35	6.19	8.11	0.00
36.20	8.35	6.19	8.11	0.00
36.40	8.35	6.19	8.11	0.00
36.60	8.35	6.19	8.11	0.00
36.80	8.35	6.19	8.11	0.00
37.00	8.35	6.19	8.11	0.00
37.20	8.35	6.19	8.11	0.00
37.40	8.35	6.19	8.11	0.00
37.60	8.35	6.19	8.11	0.00
37.80	8.35	6.19	8.11	0.00
38.00	8.35	6.19	8.11	0.00
38.20	8.35	6.19	8.11	0.00
38.40	8.35	6.19	8.11	0.00
38.60	8.35	6.19	8.11	0.00
38.80	8.35	6.19	8.11	0.00
39.00	8.35	6.19	8.11	0.00
39.20	8.35	6.19	8.11	0.00
39.40	8.35	6.19	8.11	0.00
39.60	8.35	6.19	8.11	0.00
39.80	8.35	6.19	8.11	0.00
40.00	8.35	6.19	8.11	0.00
40.20	8.35	6.19	8.11	0.00
40.40	8.35	6.19	8.11	0.00
40.60	8.35	6.19	8.11	0.00
40.80	8.35	6.19	8.11	0.00
41.00	8.35	6.19	8.11	0.00
41.20	8.35	6.19	8.11	0.00
41.40	8.35	6.19	8.11	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.19	8.11	0.00
41.80	8.35	6.19	8.11	0.00
42.00	8.35	6.19	8.11	0.00
42.20	8.35	6.19	8.11	0.00
42.40	8.35	6.19	8.11	0.00
42.60	8.35	6.19	8.11	0.00
42.80	8.35	6.19	8.11	0.00
43.00	8.35	6.19	8.11	0.00
43.20	8.35	6.19	8.11	0.00
43.40	8.35	6.19	8.11	0.00
43.60	8.35	6.19	8.11	0.00
43.80	8.35	6.19	8.11	0.00
44.00	8.35	6.19	8.11	0.00
44.20	8.35	6.19	8.11	0.00
44.40	8.35	6.19	8.11	0.00
44.60	8.35	6.19	8.11	0.00
44.80	8.35	6.19	8.11	0.00
45.00	8.35	6.19	8.11	0.00
45.20	8.35	6.19	8.11	0.00
45.40	8.35	6.19	8.11	0.00
45.60	8.35	6.19	8.11	0.00
45.80	8.35	6.19	8.11	0.00
46.00	8.35	6.19	8.11	0.00
46.20	8.35	6.19	8.11	0.00
46.40	8.35	6.19	8.11	0.00
46.60	8.35	6.19	8.11	0.00
46.80	8.35	6.19	8.11	0.00
47.00	8.35	6.19	8.11	0.00
47.20	8.35	6.19	8.11	0.00
47.40	8.35	6.19	8.11	0.00
47.60	8.35	6.19	8.11	0.00
47.80	8.35	6.19	8.11	0.00
48.00	8.35	6.19	8.11	0.00
48.20	8.35	6.19	8.11	0.00
48.40	8.35	6.19	8.11	0.00
48.60	8.35	6.19	8.11	0.00
48.80	8.35	6.19	8.11	0.00
49.00	8.35	6.19	8.11	0.00
49.20	8.35	6.19	8.11	0.00
49.40	8.35	6.19	8.11	0.00
49.60	8.35	6.19	8.11	0.00
49.80	8.35	6.19	8.11	0.00
50.00	8.35	6.19	8.11	0.00
50.20	8.35	6.19	8.11	0.00
50.40	8.35	6.19	8.11	0.00
50.60	8.35	6.19	8.11	0.00
50.80	8.35	6.19	8.11	0.00
51.00	8.35	6.19	8.11	0.00
51.20	8.35	6.19	8.11	0.00
51.40	8.35	6.19	8.11	0.00
51.60	8.35	6.19	8.11	0.00
51.80	8.35	6.19	8.11	0.00

**Hydrograph for Subcatchment P-1C-10: Area 10 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.19	8.11	0.00
52.20	8.35	6.19	8.11	0.00
52.40	8.35	6.19	8.11	0.00
52.60	8.35	6.19	8.11	0.00
52.80	8.35	6.19	8.11	0.00
53.00	8.35	6.19	8.11	0.00
53.20	8.35	6.19	8.11	0.00
53.40	8.35	6.19	8.11	0.00
53.60	8.35	6.19	8.11	0.00
53.80	8.35	6.19	8.11	0.00
54.00	8.35	6.19	8.11	0.00
54.20	8.35	6.19	8.11	0.00
54.40	8.35	6.19	8.11	0.00
54.60	8.35	6.19	8.11	0.00
54.80	8.35	6.19	8.11	0.00
55.00	8.35	6.19	8.11	0.00
55.20	8.35	6.19	8.11	0.00
55.40	8.35	6.19	8.11	0.00
55.60	8.35	6.19	8.11	0.00
55.80	8.35	6.19	8.11	0.00
56.00	8.35	6.19	8.11	0.00
56.20	8.35	6.19	8.11	0.00
56.40	8.35	6.19	8.11	0.00
56.60	8.35	6.19	8.11	0.00
56.80	8.35	6.19	8.11	0.00
57.00	8.35	6.19	8.11	0.00
57.20	8.35	6.19	8.11	0.00
57.40	8.35	6.19	8.11	0.00
57.60	8.35	6.19	8.11	0.00
57.80	8.35	6.19	8.11	0.00
58.00	8.35	6.19	8.11	0.00
58.20	8.35	6.19	8.11	0.00
58.40	8.35	6.19	8.11	0.00
58.60	8.35	6.19	8.11	0.00
58.80	8.35	6.19	8.11	0.00
59.00	8.35	6.19	8.11	0.00
59.20	8.35	6.19	8.11	0.00
59.40	8.35	6.19	8.11	0.00
59.60	8.35	6.19	8.11	0.00
59.80	8.35	6.19	8.11	0.00
60.00	8.35	6.19	8.11	0.00
60.20	8.35	6.19	8.11	0.00
60.40	8.35	6.19	8.11	0.00
60.60	8.35	6.19	8.11	0.00
60.80	8.35	6.19	8.11	0.00
61.00	8.35	6.19	8.11	0.00
61.20	8.35	6.19	8.11	0.00
61.40	8.35	6.19	8.11	0.00
61.60	8.35	6.19	8.11	0.00
61.80	8.35	6.19	8.11	0.00
62.00	8.35	6.19	8.11	0.00
62.20	8.35	6.19	8.11	0.00

Hydrograph for Subcatchment P-1C-10: Area 10 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.19	8.11	0.00
62.60	8.35	6.19	8.11	0.00
62.80	8.35	6.19	8.11	0.00
63.00	8.35	6.19	8.11	0.00
63.20	8.35	6.19	8.11	0.00
63.40	8.35	6.19	8.11	0.00
63.60	8.35	6.19	8.11	0.00
63.80	8.35	6.19	8.11	0.00
64.00	8.35	6.19	8.11	0.00
64.20	8.35	6.19	8.11	0.00
64.40	8.35	6.19	8.11	0.00
64.60	8.35	6.19	8.11	0.00
64.80	8.35	6.19	8.11	0.00
65.00	8.35	6.19	8.11	0.00
65.20	8.35	6.19	8.11	0.00
65.40	8.35	6.19	8.11	0.00
65.60	8.35	6.19	8.11	0.00
65.80	8.35	6.19	8.11	0.00
66.00	8.35	6.19	8.11	0.00
66.20	8.35	6.19	8.11	0.00
66.40	8.35	6.19	8.11	0.00
66.60	8.35	6.19	8.11	0.00
66.80	8.35	6.19	8.11	0.00
67.00	8.35	6.19	8.11	0.00
67.20	8.35	6.19	8.11	0.00
67.40	8.35	6.19	8.11	0.00
67.60	8.35	6.19	8.11	0.00
67.80	8.35	6.19	8.11	0.00
68.00	8.35	6.19	8.11	0.00
68.20	8.35	6.19	8.11	0.00
68.40	8.35	6.19	8.11	0.00
68.60	8.35	6.19	8.11	0.00
68.80	8.35	6.19	8.11	0.00
69.00	8.35	6.19	8.11	0.00
69.20	8.35	6.19	8.11	0.00
69.40	8.35	6.19	8.11	0.00
69.60	8.35	6.19	8.11	0.00
69.80	8.35	6.19	8.11	0.00
70.00	8.35	6.19	8.11	0.00
70.20	8.35	6.19	8.11	0.00
70.40	8.35	6.19	8.11	0.00
70.60	8.35	6.19	8.11	0.00
70.80	8.35	6.19	8.11	0.00
71.00	8.35	6.19	8.11	0.00
71.20	8.35	6.19	8.11	0.00
71.40	8.35	6.19	8.11	0.00
71.60	8.35	6.19	8.11	0.00
71.80	8.35	6.19	8.11	0.00
72.00	8.35	6.19	8.11	0.00

**Summary for Subcatchment P-1C-11: Area 11**

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

Runoff = 1.27 cfs @ 12.09 hrs, Volume= 4,085 cf, Depth= 7.49"  
 Routed to Pond PV-11 : Pervious Pavers 11

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	88	98	Impervious
*	3,862	98	MVS - Impervious
*	2,592	85	MVS - Pervious Pavers
	6,542	93	Weighted Average
	2,592	85	39.62% Pervious Area
	3,950	98	60.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	72	0.0120	1.10		<b>Sheet Flow, 11c1-11c2</b> Smooth surfaces n= 0.011 P2= 3.54"

**Hydrograph for Subcatchment P-1C-11: Area 11**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.01
1.60	0.16	0.00	0.04	0.01
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.01	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.02	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.03	0.41	0.01
5.40	0.63	0.04	0.43	0.01
5.60	0.65	0.04	0.46	0.01
5.80	0.68	0.05	0.49	0.01
6.00	0.71	0.06	0.52	0.02
6.20	0.74	0.07	0.54	0.02
6.40	0.78	0.08	0.57	0.02
6.60	0.81	0.09	0.61	0.02
6.80	0.84	0.11	0.64	0.02
7.00	0.88	0.12	0.67	0.02
7.20	0.92	0.14	0.71	0.02
7.40	0.96	0.15	0.75	0.02
7.60	1.00	0.17	0.79	0.02
7.80	1.04	0.19	0.83	0.03
8.00	1.08	0.21	0.87	0.03
8.20	1.13	0.24	0.92	0.03
8.40	1.18	0.26	0.96	0.03
8.60	1.22	0.29	1.01	0.03
8.80	1.27	0.32	1.06	0.03
9.00	1.32	0.35	1.11	0.03
9.20	1.38	0.38	1.16	0.04
9.40	1.44	0.42	1.22	0.04
9.60	1.51	0.46	1.29	0.04
9.80	1.58	0.50	1.36	0.05
10.00	1.66	0.55	1.43	0.05
10.20	1.74	0.61	1.51	0.05



**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.67	1.60	0.06
10.60	1.92	0.74	1.70	0.07
10.80	2.04	0.82	1.81	0.08
11.00	2.17	0.92	1.94	0.09
11.20	2.34	1.05	2.11	0.12
11.40	2.53	1.21	2.31	0.14
11.60	2.80	1.42	2.57	0.21
11.80	3.18	1.74	2.94	0.31
12.00	4.00	2.46	3.77	<b>0.76</b>
12.20	5.17	3.53	4.94	<b>0.44</b>
12.40	5.55	3.88	5.31	0.23
12.60	5.82	4.13	5.58	0.17
12.80	6.01	4.32	5.78	0.14
13.00	6.18	4.47	5.94	0.12
13.20	6.31	4.60	6.08	0.10
13.40	6.43	4.71	6.19	0.08
13.60	6.53	4.80	6.29	0.07
13.80	6.61	4.88	6.37	0.06
14.00	6.69	4.96	6.46	0.06
14.20	6.77	5.03	6.53	0.06
14.40	6.84	5.10	6.60	0.05
14.60	6.91	5.17	6.67	0.05
14.80	6.97	5.22	6.73	0.04
15.00	7.03	5.28	6.79	0.04
15.20	7.08	5.33	6.84	0.04
15.40	7.13	5.37	6.89	0.04
15.60	7.17	5.42	6.94	0.04
15.80	7.22	5.46	6.98	0.03
16.00	7.27	5.51	7.03	0.03
16.20	7.31	5.55	7.07	0.03
16.40	7.35	5.59	7.11	0.03
16.60	7.39	5.63	7.15	0.03
16.80	7.43	5.67	7.19	0.03
17.00	7.47	5.70	7.23	0.03
17.20	7.51	5.74	7.27	0.03
17.40	7.54	5.77	7.30	0.03
17.60	7.57	5.80	7.34	0.02
17.80	7.61	5.83	7.37	0.02
18.00	7.64	5.86	7.40	0.02
18.20	7.67	5.89	7.43	0.02
18.40	7.70	5.92	7.46	0.02
18.60	7.72	5.95	7.48	0.02
18.80	7.75	5.97	7.51	0.02
19.00	7.78	6.00	7.54	0.02
19.20	7.81	6.03	7.57	0.02
19.40	7.83	6.05	7.59	0.02
19.60	7.86	6.08	7.62	0.02
19.80	7.89	6.10	7.65	0.02
20.00	7.91	6.13	7.67	0.02
20.20	7.94	6.15	7.70	0.02
20.40	7.96	6.18	7.72	0.02
20.60	7.99	6.20	7.75	0.02

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.22	7.77	0.02
21.00	8.04	6.25	7.80	0.02
21.20	8.06	6.27	7.82	0.02
21.40	8.08	6.29	7.84	0.02
21.60	8.11	6.31	7.87	0.02
21.80	8.13	6.34	7.89	0.02
22.00	8.15	6.36	7.91	0.02
22.20	8.17	6.38	7.93	0.02
22.40	8.19	6.40	7.95	0.02
22.60	8.21	6.42	7.97	0.02
22.80	8.23	6.44	7.99	0.02
23.00	8.25	6.46	8.01	0.01
23.20	8.27	6.48	8.03	0.01
23.40	8.29	6.50	8.05	0.01
23.60	8.31	6.52	8.07	0.01
23.80	8.33	6.53	8.09	0.01
24.00	<b>8.35</b>	<b>6.55</b>	<b>8.11</b>	0.01
24.20	8.35	6.55	8.11	0.00
24.40	8.35	6.55	8.11	0.00
24.60	8.35	6.55	8.11	0.00
24.80	8.35	6.55	8.11	0.00
25.00	8.35	6.55	8.11	0.00
25.20	8.35	6.55	8.11	0.00
25.40	8.35	6.55	8.11	0.00
25.60	8.35	6.55	8.11	0.00
25.80	8.35	6.55	8.11	0.00
26.00	8.35	6.55	8.11	0.00
26.20	8.35	6.55	8.11	0.00
26.40	8.35	6.55	8.11	0.00
26.60	8.35	6.55	8.11	0.00
26.80	8.35	6.55	8.11	0.00
27.00	8.35	6.55	8.11	0.00
27.20	8.35	6.55	8.11	0.00
27.40	8.35	6.55	8.11	0.00
27.60	8.35	6.55	8.11	0.00
27.80	8.35	6.55	8.11	0.00
28.00	8.35	6.55	8.11	0.00
28.20	8.35	6.55	8.11	0.00
28.40	8.35	6.55	8.11	0.00
28.60	8.35	6.55	8.11	0.00
28.80	8.35	6.55	8.11	0.00
29.00	8.35	6.55	8.11	0.00
29.20	8.35	6.55	8.11	0.00
29.40	8.35	6.55	8.11	0.00
29.60	8.35	6.55	8.11	0.00
29.80	8.35	6.55	8.11	0.00
30.00	8.35	6.55	8.11	0.00
30.20	8.35	6.55	8.11	0.00
30.40	8.35	6.55	8.11	0.00
30.60	8.35	6.55	8.11	0.00
30.80	8.35	6.55	8.11	0.00
31.00	8.35	6.55	8.11	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.55	8.11	0.00
31.40	8.35	6.55	8.11	0.00
31.60	8.35	6.55	8.11	0.00
31.80	8.35	6.55	8.11	0.00
32.00	8.35	6.55	8.11	0.00
32.20	8.35	6.55	8.11	0.00
32.40	8.35	6.55	8.11	0.00
32.60	8.35	6.55	8.11	0.00
32.80	8.35	6.55	8.11	0.00
33.00	8.35	6.55	8.11	0.00
33.20	8.35	6.55	8.11	0.00
33.40	8.35	6.55	8.11	0.00
33.60	8.35	6.55	8.11	0.00
33.80	8.35	6.55	8.11	0.00
34.00	8.35	6.55	8.11	0.00
34.20	8.35	6.55	8.11	0.00
34.40	8.35	6.55	8.11	0.00
34.60	8.35	6.55	8.11	0.00
34.80	8.35	6.55	8.11	0.00
35.00	8.35	6.55	8.11	0.00
35.20	8.35	6.55	8.11	0.00
35.40	8.35	6.55	8.11	0.00
35.60	8.35	6.55	8.11	0.00
35.80	8.35	6.55	8.11	0.00
36.00	8.35	6.55	8.11	0.00
36.20	8.35	6.55	8.11	0.00
36.40	8.35	6.55	8.11	0.00
36.60	8.35	6.55	8.11	0.00
36.80	8.35	6.55	8.11	0.00
37.00	8.35	6.55	8.11	0.00
37.20	8.35	6.55	8.11	0.00
37.40	8.35	6.55	8.11	0.00
37.60	8.35	6.55	8.11	0.00
37.80	8.35	6.55	8.11	0.00
38.00	8.35	6.55	8.11	0.00
38.20	8.35	6.55	8.11	0.00
38.40	8.35	6.55	8.11	0.00
38.60	8.35	6.55	8.11	0.00
38.80	8.35	6.55	8.11	0.00
39.00	8.35	6.55	8.11	0.00
39.20	8.35	6.55	8.11	0.00
39.40	8.35	6.55	8.11	0.00
39.60	8.35	6.55	8.11	0.00
39.80	8.35	6.55	8.11	0.00
40.00	8.35	6.55	8.11	0.00
40.20	8.35	6.55	8.11	0.00
40.40	8.35	6.55	8.11	0.00
40.60	8.35	6.55	8.11	0.00
40.80	8.35	6.55	8.11	0.00
41.00	8.35	6.55	8.11	0.00
41.20	8.35	6.55	8.11	0.00
41.40	8.35	6.55	8.11	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.55	8.11	0.00
41.80	8.35	6.55	8.11	0.00
42.00	8.35	6.55	8.11	0.00
42.20	8.35	6.55	8.11	0.00
42.40	8.35	6.55	8.11	0.00
42.60	8.35	6.55	8.11	0.00
42.80	8.35	6.55	8.11	0.00
43.00	8.35	6.55	8.11	0.00
43.20	8.35	6.55	8.11	0.00
43.40	8.35	6.55	8.11	0.00
43.60	8.35	6.55	8.11	0.00
43.80	8.35	6.55	8.11	0.00
44.00	8.35	6.55	8.11	0.00
44.20	8.35	6.55	8.11	0.00
44.40	8.35	6.55	8.11	0.00
44.60	8.35	6.55	8.11	0.00
44.80	8.35	6.55	8.11	0.00
45.00	8.35	6.55	8.11	0.00
45.20	8.35	6.55	8.11	0.00
45.40	8.35	6.55	8.11	0.00
45.60	8.35	6.55	8.11	0.00
45.80	8.35	6.55	8.11	0.00
46.00	8.35	6.55	8.11	0.00
46.20	8.35	6.55	8.11	0.00
46.40	8.35	6.55	8.11	0.00
46.60	8.35	6.55	8.11	0.00
46.80	8.35	6.55	8.11	0.00
47.00	8.35	6.55	8.11	0.00
47.20	8.35	6.55	8.11	0.00
47.40	8.35	6.55	8.11	0.00
47.60	8.35	6.55	8.11	0.00
47.80	8.35	6.55	8.11	0.00
48.00	8.35	6.55	8.11	0.00
48.20	8.35	6.55	8.11	0.00
48.40	8.35	6.55	8.11	0.00
48.60	8.35	6.55	8.11	0.00
48.80	8.35	6.55	8.11	0.00
49.00	8.35	6.55	8.11	0.00
49.20	8.35	6.55	8.11	0.00
49.40	8.35	6.55	8.11	0.00
49.60	8.35	6.55	8.11	0.00
49.80	8.35	6.55	8.11	0.00
50.00	8.35	6.55	8.11	0.00
50.20	8.35	6.55	8.11	0.00
50.40	8.35	6.55	8.11	0.00
50.60	8.35	6.55	8.11	0.00
50.80	8.35	6.55	8.11	0.00
51.00	8.35	6.55	8.11	0.00
51.20	8.35	6.55	8.11	0.00
51.40	8.35	6.55	8.11	0.00
51.60	8.35	6.55	8.11	0.00
51.80	8.35	6.55	8.11	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.55	8.11	0.00
52.20	8.35	6.55	8.11	0.00
52.40	8.35	6.55	8.11	0.00
52.60	8.35	6.55	8.11	0.00
52.80	8.35	6.55	8.11	0.00
53.00	8.35	6.55	8.11	0.00
53.20	8.35	6.55	8.11	0.00
53.40	8.35	6.55	8.11	0.00
53.60	8.35	6.55	8.11	0.00
53.80	8.35	6.55	8.11	0.00
54.00	8.35	6.55	8.11	0.00
54.20	8.35	6.55	8.11	0.00
54.40	8.35	6.55	8.11	0.00
54.60	8.35	6.55	8.11	0.00
54.80	8.35	6.55	8.11	0.00
55.00	8.35	6.55	8.11	0.00
55.20	8.35	6.55	8.11	0.00
55.40	8.35	6.55	8.11	0.00
55.60	8.35	6.55	8.11	0.00
55.80	8.35	6.55	8.11	0.00
56.00	8.35	6.55	8.11	0.00
56.20	8.35	6.55	8.11	0.00
56.40	8.35	6.55	8.11	0.00
56.60	8.35	6.55	8.11	0.00
56.80	8.35	6.55	8.11	0.00
57.00	8.35	6.55	8.11	0.00
57.20	8.35	6.55	8.11	0.00
57.40	8.35	6.55	8.11	0.00
57.60	8.35	6.55	8.11	0.00
57.80	8.35	6.55	8.11	0.00
58.00	8.35	6.55	8.11	0.00
58.20	8.35	6.55	8.11	0.00
58.40	8.35	6.55	8.11	0.00
58.60	8.35	6.55	8.11	0.00
58.80	8.35	6.55	8.11	0.00
59.00	8.35	6.55	8.11	0.00
59.20	8.35	6.55	8.11	0.00
59.40	8.35	6.55	8.11	0.00
59.60	8.35	6.55	8.11	0.00
59.80	8.35	6.55	8.11	0.00
60.00	8.35	6.55	8.11	0.00
60.20	8.35	6.55	8.11	0.00
60.40	8.35	6.55	8.11	0.00
60.60	8.35	6.55	8.11	0.00
60.80	8.35	6.55	8.11	0.00
61.00	8.35	6.55	8.11	0.00
61.20	8.35	6.55	8.11	0.00
61.40	8.35	6.55	8.11	0.00
61.60	8.35	6.55	8.11	0.00
61.80	8.35	6.55	8.11	0.00
62.00	8.35	6.55	8.11	0.00
62.20	8.35	6.55	8.11	0.00

**Hydrograph for Subcatchment P-1C-11: Area 11 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.55	8.11	0.00
62.60	8.35	6.55	8.11	0.00
62.80	8.35	6.55	8.11	0.00
63.00	8.35	6.55	8.11	0.00
63.20	8.35	6.55	8.11	0.00
63.40	8.35	6.55	8.11	0.00
63.60	8.35	6.55	8.11	0.00
63.80	8.35	6.55	8.11	0.00
64.00	8.35	6.55	8.11	0.00
64.20	8.35	6.55	8.11	0.00
64.40	8.35	6.55	8.11	0.00
64.60	8.35	6.55	8.11	0.00
64.80	8.35	6.55	8.11	0.00
65.00	8.35	6.55	8.11	0.00
65.20	8.35	6.55	8.11	0.00
65.40	8.35	6.55	8.11	0.00
65.60	8.35	6.55	8.11	0.00
65.80	8.35	6.55	8.11	0.00
66.00	8.35	6.55	8.11	0.00
66.20	8.35	6.55	8.11	0.00
66.40	8.35	6.55	8.11	0.00
66.60	8.35	6.55	8.11	0.00
66.80	8.35	6.55	8.11	0.00
67.00	8.35	6.55	8.11	0.00
67.20	8.35	6.55	8.11	0.00
67.40	8.35	6.55	8.11	0.00
67.60	8.35	6.55	8.11	0.00
67.80	8.35	6.55	8.11	0.00
68.00	8.35	6.55	8.11	0.00
68.20	8.35	6.55	8.11	0.00
68.40	8.35	6.55	8.11	0.00
68.60	8.35	6.55	8.11	0.00
68.80	8.35	6.55	8.11	0.00
69.00	8.35	6.55	8.11	0.00
69.20	8.35	6.55	8.11	0.00
69.40	8.35	6.55	8.11	0.00
69.60	8.35	6.55	8.11	0.00
69.80	8.35	6.55	8.11	0.00
70.00	8.35	6.55	8.11	0.00
70.20	8.35	6.55	8.11	0.00
70.40	8.35	6.55	8.11	0.00
70.60	8.35	6.55	8.11	0.00
70.80	8.35	6.55	8.11	0.00
71.00	8.35	6.55	8.11	0.00
71.20	8.35	6.55	8.11	0.00
71.40	8.35	6.55	8.11	0.00
71.60	8.35	6.55	8.11	0.00
71.80	8.35	6.55	8.11	0.00
72.00	8.35	6.55	8.11	0.00

**Summary for Subcatchment P-1C-7: Area 7**

Runoff = 1.31 cfs @ 12.11 hrs, Volume= 4,267 cf, Depth= 7.35"  
 Routed to Pond PV-7 : Pervious Pavers 7

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

Area (sf)	CN	Description
* 226	98	Impervious
* 3,598	98	MVS - Impervious
* 2,430	85	MVS - Pervious Pavers
709	80	>75% Grass cover, Good, HSG D
6,963	92	Weighted Average
3,139	84	45.08% Pervious Area
3,824	98	54.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.4	20	0.0100	0.10		<b>Sheet Flow, 7c1-7c2</b>
					Grass: Short n= 0.150 P2= 3.54"
0.3	34	0.0100	2.03		<b>Shallow Concentrated Flow, 7c2-7c3</b>
					Paved Kv= 20.3 fps
3.7	54	Total			

**Hydrograph for Subcatchment P-1C-7: Area 7**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.01
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.03	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.04	0.49	0.01
6.00	0.71	0.05	0.52	0.02
6.20	0.74	0.06	0.54	0.02
6.40	0.78	0.07	0.57	0.02
6.60	0.81	0.08	0.61	0.02
6.80	0.84	0.09	0.64	0.02
7.00	0.88	0.10	0.67	0.02
7.20	0.92	0.12	0.71	0.02
7.40	0.96	0.13	0.75	0.02
7.60	1.00	0.15	0.79	0.02
7.80	1.04	0.17	0.83	0.03
8.00	1.08	0.19	0.87	0.03
8.20	1.13	0.21	0.92	0.03
8.40	1.18	0.23	0.96	0.03
8.60	1.22	0.26	1.01	0.03
8.80	1.27	0.28	1.06	0.03
9.00	1.32	0.31	1.11	0.03
9.20	1.38	0.34	1.16	0.04
9.40	1.44	0.38	1.22	0.04
9.60	1.51	0.42	1.29	0.04
9.80	1.58	0.46	1.36	0.05
10.00	1.66	0.51	1.43	0.05
10.20	1.74	0.56	1.51	0.06



**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.62	1.60	0.06
10.60	1.92	0.69	1.70	0.07
10.80	2.04	0.77	1.81	0.08
11.00	2.17	0.87	1.94	0.10
11.20	2.34	0.99	2.11	0.12
11.40	2.53	1.14	2.31	0.15
11.60	2.80	1.35	2.57	0.22
11.80	3.18	1.66	2.94	0.32
12.00	4.00	2.37	3.77	<b>0.76</b>
12.20	5.17	3.43	4.94	<b>0.54</b>
12.40	5.55	3.78	5.31	0.25
12.60	5.82	4.02	5.58	0.18
12.80	6.01	4.21	5.78	0.15
13.00	6.18	4.36	5.94	0.12
13.20	6.31	4.49	6.08	0.10
13.40	6.43	4.60	6.19	0.09
13.60	6.53	4.69	6.29	0.07
13.80	6.61	4.77	6.37	0.07
14.00	6.69	4.85	6.46	0.06
14.20	6.77	4.92	6.53	0.06
14.40	6.84	4.99	6.60	0.06
14.60	6.91	5.05	6.67	0.05
14.80	6.97	5.11	6.73	0.05
15.00	7.03	5.16	6.79	0.04
15.20	7.08	5.21	6.84	0.04
15.40	7.13	5.26	6.89	0.04
15.60	7.17	5.31	6.94	0.04
15.80	7.22	5.35	6.98	0.04
16.00	7.27	5.39	7.03	0.04
16.20	7.31	5.44	7.07	0.03
16.40	7.35	5.48	7.11	0.03
16.60	7.39	5.51	7.15	0.03
16.80	7.43	5.55	7.19	0.03
17.00	7.47	5.59	7.23	0.03
17.20	7.51	5.62	7.27	0.03
17.40	7.54	5.66	7.30	0.03
17.60	7.57	5.69	7.34	0.03
17.80	7.61	5.72	7.37	0.02
18.00	7.64	5.75	7.40	0.02
18.20	7.67	5.78	7.43	0.02
18.40	7.70	5.80	7.46	0.02
18.60	7.72	5.83	7.48	0.02
18.80	7.75	5.86	7.51	0.02
19.00	7.78	5.88	7.54	0.02
19.20	7.81	5.91	7.57	0.02
19.40	7.83	5.94	7.59	0.02
19.60	7.86	5.96	7.62	0.02
19.80	7.89	5.99	7.65	0.02
20.00	7.91	6.01	7.67	0.02
20.20	7.94	6.04	7.70	0.02
20.40	7.96	6.06	7.72	0.02
20.60	7.99	6.08	7.75	0.02

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.11	7.77	0.02
21.00	8.04	6.13	7.80	0.02
21.20	8.06	6.15	7.82	0.02
21.40	8.08	6.17	7.84	0.02
21.60	8.11	6.20	7.87	0.02
21.80	8.13	6.22	7.89	0.02
22.00	8.15	6.24	7.91	0.02
22.20	8.17	6.26	7.93	0.02
22.40	8.19	6.28	7.95	0.02
22.60	8.21	6.30	7.97	0.02
22.80	8.23	6.32	7.99	0.02
23.00	8.25	6.34	8.01	0.02
23.20	8.27	6.36	8.03	0.02
23.40	8.29	6.38	8.05	0.02
23.60	8.31	6.40	8.07	0.02
23.80	8.33	6.41	8.09	0.01
24.00	<b>8.35</b>	<b>6.43</b>	<b>8.11</b>	0.01
24.20	8.35	6.43	8.11	0.00
24.40	8.35	6.43	8.11	0.00
24.60	8.35	6.43	8.11	0.00
24.80	8.35	6.43	8.11	0.00
25.00	8.35	6.43	8.11	0.00
25.20	8.35	6.43	8.11	0.00
25.40	8.35	6.43	8.11	0.00
25.60	8.35	6.43	8.11	0.00
25.80	8.35	6.43	8.11	0.00
26.00	8.35	6.43	8.11	0.00
26.20	8.35	6.43	8.11	0.00
26.40	8.35	6.43	8.11	0.00
26.60	8.35	6.43	8.11	0.00
26.80	8.35	6.43	8.11	0.00
27.00	8.35	6.43	8.11	0.00
27.20	8.35	6.43	8.11	0.00
27.40	8.35	6.43	8.11	0.00
27.60	8.35	6.43	8.11	0.00
27.80	8.35	6.43	8.11	0.00
28.00	8.35	6.43	8.11	0.00
28.20	8.35	6.43	8.11	0.00
28.40	8.35	6.43	8.11	0.00
28.60	8.35	6.43	8.11	0.00
28.80	8.35	6.43	8.11	0.00
29.00	8.35	6.43	8.11	0.00
29.20	8.35	6.43	8.11	0.00
29.40	8.35	6.43	8.11	0.00
29.60	8.35	6.43	8.11	0.00
29.80	8.35	6.43	8.11	0.00
30.00	8.35	6.43	8.11	0.00
30.20	8.35	6.43	8.11	0.00
30.40	8.35	6.43	8.11	0.00
30.60	8.35	6.43	8.11	0.00
30.80	8.35	6.43	8.11	0.00
31.00	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.43	8.11	0.00
31.40	8.35	6.43	8.11	0.00
31.60	8.35	6.43	8.11	0.00
31.80	8.35	6.43	8.11	0.00
32.00	8.35	6.43	8.11	0.00
32.20	8.35	6.43	8.11	0.00
32.40	8.35	6.43	8.11	0.00
32.60	8.35	6.43	8.11	0.00
32.80	8.35	6.43	8.11	0.00
33.00	8.35	6.43	8.11	0.00
33.20	8.35	6.43	8.11	0.00
33.40	8.35	6.43	8.11	0.00
33.60	8.35	6.43	8.11	0.00
33.80	8.35	6.43	8.11	0.00
34.00	8.35	6.43	8.11	0.00
34.20	8.35	6.43	8.11	0.00
34.40	8.35	6.43	8.11	0.00
34.60	8.35	6.43	8.11	0.00
34.80	8.35	6.43	8.11	0.00
35.00	8.35	6.43	8.11	0.00
35.20	8.35	6.43	8.11	0.00
35.40	8.35	6.43	8.11	0.00
35.60	8.35	6.43	8.11	0.00
35.80	8.35	6.43	8.11	0.00
36.00	8.35	6.43	8.11	0.00
36.20	8.35	6.43	8.11	0.00
36.40	8.35	6.43	8.11	0.00
36.60	8.35	6.43	8.11	0.00
36.80	8.35	6.43	8.11	0.00
37.00	8.35	6.43	8.11	0.00
37.20	8.35	6.43	8.11	0.00
37.40	8.35	6.43	8.11	0.00
37.60	8.35	6.43	8.11	0.00
37.80	8.35	6.43	8.11	0.00
38.00	8.35	6.43	8.11	0.00
38.20	8.35	6.43	8.11	0.00
38.40	8.35	6.43	8.11	0.00
38.60	8.35	6.43	8.11	0.00
38.80	8.35	6.43	8.11	0.00
39.00	8.35	6.43	8.11	0.00
39.20	8.35	6.43	8.11	0.00
39.40	8.35	6.43	8.11	0.00
39.60	8.35	6.43	8.11	0.00
39.80	8.35	6.43	8.11	0.00
40.00	8.35	6.43	8.11	0.00
40.20	8.35	6.43	8.11	0.00
40.40	8.35	6.43	8.11	0.00
40.60	8.35	6.43	8.11	0.00
40.80	8.35	6.43	8.11	0.00
41.00	8.35	6.43	8.11	0.00
41.20	8.35	6.43	8.11	0.00
41.40	8.35	6.43	8.11	0.00

Hydrograph for Subcatchment P-1C-7: Area 7 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.43	8.11	0.00
41.80	8.35	6.43	8.11	0.00
42.00	8.35	6.43	8.11	0.00
42.20	8.35	6.43	8.11	0.00
42.40	8.35	6.43	8.11	0.00
42.60	8.35	6.43	8.11	0.00
42.80	8.35	6.43	8.11	0.00
43.00	8.35	6.43	8.11	0.00
43.20	8.35	6.43	8.11	0.00
43.40	8.35	6.43	8.11	0.00
43.60	8.35	6.43	8.11	0.00
43.80	8.35	6.43	8.11	0.00
44.00	8.35	6.43	8.11	0.00
44.20	8.35	6.43	8.11	0.00
44.40	8.35	6.43	8.11	0.00
44.60	8.35	6.43	8.11	0.00
44.80	8.35	6.43	8.11	0.00
45.00	8.35	6.43	8.11	0.00
45.20	8.35	6.43	8.11	0.00
45.40	8.35	6.43	8.11	0.00
45.60	8.35	6.43	8.11	0.00
45.80	8.35	6.43	8.11	0.00
46.00	8.35	6.43	8.11	0.00
46.20	8.35	6.43	8.11	0.00
46.40	8.35	6.43	8.11	0.00
46.60	8.35	6.43	8.11	0.00
46.80	8.35	6.43	8.11	0.00
47.00	8.35	6.43	8.11	0.00
47.20	8.35	6.43	8.11	0.00
47.40	8.35	6.43	8.11	0.00
47.60	8.35	6.43	8.11	0.00
47.80	8.35	6.43	8.11	0.00
48.00	8.35	6.43	8.11	0.00
48.20	8.35	6.43	8.11	0.00
48.40	8.35	6.43	8.11	0.00
48.60	8.35	6.43	8.11	0.00
48.80	8.35	6.43	8.11	0.00
49.00	8.35	6.43	8.11	0.00
49.20	8.35	6.43	8.11	0.00
49.40	8.35	6.43	8.11	0.00
49.60	8.35	6.43	8.11	0.00
49.80	8.35	6.43	8.11	0.00
50.00	8.35	6.43	8.11	0.00
50.20	8.35	6.43	8.11	0.00
50.40	8.35	6.43	8.11	0.00
50.60	8.35	6.43	8.11	0.00
50.80	8.35	6.43	8.11	0.00
51.00	8.35	6.43	8.11	0.00
51.20	8.35	6.43	8.11	0.00
51.40	8.35	6.43	8.11	0.00
51.60	8.35	6.43	8.11	0.00
51.80	8.35	6.43	8.11	0.00

Hydrograph for Subcatchment P-1C-7: Area 7 (continued)

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.43	8.11	0.00
52.20	8.35	6.43	8.11	0.00
52.40	8.35	6.43	8.11	0.00
52.60	8.35	6.43	8.11	0.00
52.80	8.35	6.43	8.11	0.00
53.00	8.35	6.43	8.11	0.00
53.20	8.35	6.43	8.11	0.00
53.40	8.35	6.43	8.11	0.00
53.60	8.35	6.43	8.11	0.00
53.80	8.35	6.43	8.11	0.00
54.00	8.35	6.43	8.11	0.00
54.20	8.35	6.43	8.11	0.00
54.40	8.35	6.43	8.11	0.00
54.60	8.35	6.43	8.11	0.00
54.80	8.35	6.43	8.11	0.00
55.00	8.35	6.43	8.11	0.00
55.20	8.35	6.43	8.11	0.00
55.40	8.35	6.43	8.11	0.00
55.60	8.35	6.43	8.11	0.00
55.80	8.35	6.43	8.11	0.00
56.00	8.35	6.43	8.11	0.00
56.20	8.35	6.43	8.11	0.00
56.40	8.35	6.43	8.11	0.00
56.60	8.35	6.43	8.11	0.00
56.80	8.35	6.43	8.11	0.00
57.00	8.35	6.43	8.11	0.00
57.20	8.35	6.43	8.11	0.00
57.40	8.35	6.43	8.11	0.00
57.60	8.35	6.43	8.11	0.00
57.80	8.35	6.43	8.11	0.00
58.00	8.35	6.43	8.11	0.00
58.20	8.35	6.43	8.11	0.00
58.40	8.35	6.43	8.11	0.00
58.60	8.35	6.43	8.11	0.00
58.80	8.35	6.43	8.11	0.00
59.00	8.35	6.43	8.11	0.00
59.20	8.35	6.43	8.11	0.00
59.40	8.35	6.43	8.11	0.00
59.60	8.35	6.43	8.11	0.00
59.80	8.35	6.43	8.11	0.00
60.00	8.35	6.43	8.11	0.00
60.20	8.35	6.43	8.11	0.00
60.40	8.35	6.43	8.11	0.00
60.60	8.35	6.43	8.11	0.00
60.80	8.35	6.43	8.11	0.00
61.00	8.35	6.43	8.11	0.00
61.20	8.35	6.43	8.11	0.00
61.40	8.35	6.43	8.11	0.00
61.60	8.35	6.43	8.11	0.00
61.80	8.35	6.43	8.11	0.00
62.00	8.35	6.43	8.11	0.00
62.20	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-7: Area 7 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.43	8.11	0.00
62.60	8.35	6.43	8.11	0.00
62.80	8.35	6.43	8.11	0.00
63.00	8.35	6.43	8.11	0.00
63.20	8.35	6.43	8.11	0.00
63.40	8.35	6.43	8.11	0.00
63.60	8.35	6.43	8.11	0.00
63.80	8.35	6.43	8.11	0.00
64.00	8.35	6.43	8.11	0.00
64.20	8.35	6.43	8.11	0.00
64.40	8.35	6.43	8.11	0.00
64.60	8.35	6.43	8.11	0.00
64.80	8.35	6.43	8.11	0.00
65.00	8.35	6.43	8.11	0.00
65.20	8.35	6.43	8.11	0.00
65.40	8.35	6.43	8.11	0.00
65.60	8.35	6.43	8.11	0.00
65.80	8.35	6.43	8.11	0.00
66.00	8.35	6.43	8.11	0.00
66.20	8.35	6.43	8.11	0.00
66.40	8.35	6.43	8.11	0.00
66.60	8.35	6.43	8.11	0.00
66.80	8.35	6.43	8.11	0.00
67.00	8.35	6.43	8.11	0.00
67.20	8.35	6.43	8.11	0.00
67.40	8.35	6.43	8.11	0.00
67.60	8.35	6.43	8.11	0.00
67.80	8.35	6.43	8.11	0.00
68.00	8.35	6.43	8.11	0.00
68.20	8.35	6.43	8.11	0.00
68.40	8.35	6.43	8.11	0.00
68.60	8.35	6.43	8.11	0.00
68.80	8.35	6.43	8.11	0.00
69.00	8.35	6.43	8.11	0.00
69.20	8.35	6.43	8.11	0.00
69.40	8.35	6.43	8.11	0.00
69.60	8.35	6.43	8.11	0.00
69.80	8.35	6.43	8.11	0.00
70.00	8.35	6.43	8.11	0.00
70.20	8.35	6.43	8.11	0.00
70.40	8.35	6.43	8.11	0.00
70.60	8.35	6.43	8.11	0.00
70.80	8.35	6.43	8.11	0.00
71.00	8.35	6.43	8.11	0.00
71.20	8.35	6.43	8.11	0.00
71.40	8.35	6.43	8.11	0.00
71.60	8.35	6.43	8.11	0.00
71.80	8.35	6.43	8.11	0.00
72.00	8.35	6.43	8.11	0.00

**Summary for Subcatchment P-1C-8: Area 8**

Runoff = 1.23 cfs @ 12.10 hrs, Volume= 3,763 cf, Depth= 6.90"  
 Routed to Pond PV-8 : Pervious Pavers 8

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	161	98	Impervious
*	1,680	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,135	80	>75% Grass cover, Good, HSG D
	6,540	88	Weighted Average
	4,699	84	71.85% Pervious Area
	1,841	98	28.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 8c1-8c2</b> Grass: Short n= 0.150 P2= 3.54"

**Hydrograph for Subcatchment P-1C-8: Area 8**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.00
2.00	0.20	0.00	0.07	0.00
2.20	0.22	0.00	0.09	0.00
2.40	0.24	0.00	0.10	0.00
2.60	0.27	0.00	0.12	0.00
2.80	0.29	0.00	0.14	0.00
3.00	0.31	0.00	0.16	0.00
3.20	0.34	0.00	0.18	0.00
3.40	0.36	0.00	0.20	0.00
3.60	0.39	0.00	0.22	0.00
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.03	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.04	0.49	0.01
6.00	0.71	0.05	0.52	0.01
6.20	0.74	0.06	0.54	0.01
6.40	0.78	0.07	0.57	0.01
6.60	0.81	0.08	0.61	0.01
6.80	0.84	0.09	0.64	0.01
7.00	0.88	0.10	0.67	0.01
7.20	0.92	0.12	0.71	0.02
7.40	0.96	0.13	0.75	0.02
7.60	1.00	0.15	0.79	0.02
7.80	1.04	0.17	0.83	0.02
8.00	1.08	0.19	0.87	0.02
8.20	1.13	0.21	0.92	0.02
8.40	1.18	0.23	0.96	0.02
8.60	1.22	0.26	1.01	0.02
8.80	1.27	0.28	1.06	0.02
9.00	1.32	0.31	1.11	0.03
9.20	1.38	0.34	1.16	0.03
9.40	1.44	0.38	1.22	0.03
9.60	1.51	0.42	1.29	0.04
9.80	1.58	0.46	1.36	0.04
10.00	1.66	0.51	1.43	0.04
10.20	1.74	0.56	1.51	0.05



**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.62	1.60	0.05
10.60	1.92	0.69	1.70	0.06
10.80	2.04	0.77	1.81	0.07
11.00	2.17	0.87	1.94	0.08
11.20	2.34	0.99	2.11	0.11
11.40	2.53	1.14	2.31	0.13
11.60	2.80	1.35	2.57	0.20
11.80	3.18	1.66	2.94	0.29
12.00	4.00	2.37	3.77	<b>0.72</b>
12.20	5.17	3.43	4.94	<b>0.43</b>
12.40	5.55	3.78	5.31	0.23
12.60	5.82	4.02	5.58	0.16
12.80	6.01	4.21	5.78	0.14
13.00	6.18	4.36	5.94	0.11
13.20	6.31	4.49	6.08	0.09
13.40	6.43	4.60	6.19	0.08
13.60	6.53	4.69	6.29	0.07
13.80	6.61	4.77	6.37	0.06
14.00	6.69	4.85	6.46	0.06
14.20	6.77	4.92	6.53	0.05
14.40	6.84	4.99	6.60	0.05
14.60	6.91	5.05	6.67	0.05
14.80	6.97	5.11	6.73	0.04
15.00	7.03	5.16	6.79	0.04
15.20	7.08	5.21	6.84	0.04
15.40	7.13	5.26	6.89	0.04
15.60	7.17	5.31	6.94	0.03
15.80	7.22	5.35	6.98	0.03
16.00	7.27	5.39	7.03	0.03
16.20	7.31	5.44	7.07	0.03
16.40	7.35	5.48	7.11	0.03
16.60	7.39	5.51	7.15	0.03
16.80	7.43	5.55	7.19	0.03
17.00	7.47	5.59	7.23	0.03
17.20	7.51	5.62	7.27	0.03
17.40	7.54	5.66	7.30	0.03
17.60	7.57	5.69	7.34	0.02
17.80	7.61	5.72	7.37	0.02
18.00	7.64	5.75	7.40	0.02
18.20	7.67	5.78	7.43	0.02
18.40	7.70	5.80	7.46	0.02
18.60	7.72	5.83	7.48	0.02
18.80	7.75	5.86	7.51	0.02
19.00	7.78	5.88	7.54	0.02
19.20	7.81	5.91	7.57	0.02
19.40	7.83	5.94	7.59	0.02
19.60	7.86	5.96	7.62	0.02
19.80	7.89	5.99	7.65	0.02
20.00	7.91	6.01	7.67	0.02
20.20	7.94	6.04	7.70	0.02
20.40	7.96	6.06	7.72	0.02
20.60	7.99	6.08	7.75	0.02

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.11	7.77	0.02
21.00	8.04	6.13	7.80	0.02
21.20	8.06	6.15	7.82	0.02
21.40	8.08	6.17	7.84	0.02
21.60	8.11	6.20	7.87	0.02
21.80	8.13	6.22	7.89	0.02
22.00	8.15	6.24	7.91	0.02
22.20	8.17	6.26	7.93	0.02
22.40	8.19	6.28	7.95	0.02
22.60	8.21	6.30	7.97	0.02
22.80	8.23	6.32	7.99	0.02
23.00	8.25	6.34	8.01	0.01
23.20	8.27	6.36	8.03	0.01
23.40	8.29	6.38	8.05	0.01
23.60	8.31	6.40	8.07	0.01
23.80	8.33	6.41	8.09	0.01
24.00	<b>8.35</b>	<b>6.43</b>	<b>8.11</b>	0.01
24.20	8.35	6.43	8.11	0.00
24.40	8.35	6.43	8.11	0.00
24.60	8.35	6.43	8.11	0.00
24.80	8.35	6.43	8.11	0.00
25.00	8.35	6.43	8.11	0.00
25.20	8.35	6.43	8.11	0.00
25.40	8.35	6.43	8.11	0.00
25.60	8.35	6.43	8.11	0.00
25.80	8.35	6.43	8.11	0.00
26.00	8.35	6.43	8.11	0.00
26.20	8.35	6.43	8.11	0.00
26.40	8.35	6.43	8.11	0.00
26.60	8.35	6.43	8.11	0.00
26.80	8.35	6.43	8.11	0.00
27.00	8.35	6.43	8.11	0.00
27.20	8.35	6.43	8.11	0.00
27.40	8.35	6.43	8.11	0.00
27.60	8.35	6.43	8.11	0.00
27.80	8.35	6.43	8.11	0.00
28.00	8.35	6.43	8.11	0.00
28.20	8.35	6.43	8.11	0.00
28.40	8.35	6.43	8.11	0.00
28.60	8.35	6.43	8.11	0.00
28.80	8.35	6.43	8.11	0.00
29.00	8.35	6.43	8.11	0.00
29.20	8.35	6.43	8.11	0.00
29.40	8.35	6.43	8.11	0.00
29.60	8.35	6.43	8.11	0.00
29.80	8.35	6.43	8.11	0.00
30.00	8.35	6.43	8.11	0.00
30.20	8.35	6.43	8.11	0.00
30.40	8.35	6.43	8.11	0.00
30.60	8.35	6.43	8.11	0.00
30.80	8.35	6.43	8.11	0.00
31.00	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.43	8.11	0.00
31.40	8.35	6.43	8.11	0.00
31.60	8.35	6.43	8.11	0.00
31.80	8.35	6.43	8.11	0.00
32.00	8.35	6.43	8.11	0.00
32.20	8.35	6.43	8.11	0.00
32.40	8.35	6.43	8.11	0.00
32.60	8.35	6.43	8.11	0.00
32.80	8.35	6.43	8.11	0.00
33.00	8.35	6.43	8.11	0.00
33.20	8.35	6.43	8.11	0.00
33.40	8.35	6.43	8.11	0.00
33.60	8.35	6.43	8.11	0.00
33.80	8.35	6.43	8.11	0.00
34.00	8.35	6.43	8.11	0.00
34.20	8.35	6.43	8.11	0.00
34.40	8.35	6.43	8.11	0.00
34.60	8.35	6.43	8.11	0.00
34.80	8.35	6.43	8.11	0.00
35.00	8.35	6.43	8.11	0.00
35.20	8.35	6.43	8.11	0.00
35.40	8.35	6.43	8.11	0.00
35.60	8.35	6.43	8.11	0.00
35.80	8.35	6.43	8.11	0.00
36.00	8.35	6.43	8.11	0.00
36.20	8.35	6.43	8.11	0.00
36.40	8.35	6.43	8.11	0.00
36.60	8.35	6.43	8.11	0.00
36.80	8.35	6.43	8.11	0.00
37.00	8.35	6.43	8.11	0.00
37.20	8.35	6.43	8.11	0.00
37.40	8.35	6.43	8.11	0.00
37.60	8.35	6.43	8.11	0.00
37.80	8.35	6.43	8.11	0.00
38.00	8.35	6.43	8.11	0.00
38.20	8.35	6.43	8.11	0.00
38.40	8.35	6.43	8.11	0.00
38.60	8.35	6.43	8.11	0.00
38.80	8.35	6.43	8.11	0.00
39.00	8.35	6.43	8.11	0.00
39.20	8.35	6.43	8.11	0.00
39.40	8.35	6.43	8.11	0.00
39.60	8.35	6.43	8.11	0.00
39.80	8.35	6.43	8.11	0.00
40.00	8.35	6.43	8.11	0.00
40.20	8.35	6.43	8.11	0.00
40.40	8.35	6.43	8.11	0.00
40.60	8.35	6.43	8.11	0.00
40.80	8.35	6.43	8.11	0.00
41.00	8.35	6.43	8.11	0.00
41.20	8.35	6.43	8.11	0.00
41.40	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.43	8.11	0.00
41.80	8.35	6.43	8.11	0.00
42.00	8.35	6.43	8.11	0.00
42.20	8.35	6.43	8.11	0.00
42.40	8.35	6.43	8.11	0.00
42.60	8.35	6.43	8.11	0.00
42.80	8.35	6.43	8.11	0.00
43.00	8.35	6.43	8.11	0.00
43.20	8.35	6.43	8.11	0.00
43.40	8.35	6.43	8.11	0.00
43.60	8.35	6.43	8.11	0.00
43.80	8.35	6.43	8.11	0.00
44.00	8.35	6.43	8.11	0.00
44.20	8.35	6.43	8.11	0.00
44.40	8.35	6.43	8.11	0.00
44.60	8.35	6.43	8.11	0.00
44.80	8.35	6.43	8.11	0.00
45.00	8.35	6.43	8.11	0.00
45.20	8.35	6.43	8.11	0.00
45.40	8.35	6.43	8.11	0.00
45.60	8.35	6.43	8.11	0.00
45.80	8.35	6.43	8.11	0.00
46.00	8.35	6.43	8.11	0.00
46.20	8.35	6.43	8.11	0.00
46.40	8.35	6.43	8.11	0.00
46.60	8.35	6.43	8.11	0.00
46.80	8.35	6.43	8.11	0.00
47.00	8.35	6.43	8.11	0.00
47.20	8.35	6.43	8.11	0.00
47.40	8.35	6.43	8.11	0.00
47.60	8.35	6.43	8.11	0.00
47.80	8.35	6.43	8.11	0.00
48.00	8.35	6.43	8.11	0.00
48.20	8.35	6.43	8.11	0.00
48.40	8.35	6.43	8.11	0.00
48.60	8.35	6.43	8.11	0.00
48.80	8.35	6.43	8.11	0.00
49.00	8.35	6.43	8.11	0.00
49.20	8.35	6.43	8.11	0.00
49.40	8.35	6.43	8.11	0.00
49.60	8.35	6.43	8.11	0.00
49.80	8.35	6.43	8.11	0.00
50.00	8.35	6.43	8.11	0.00
50.20	8.35	6.43	8.11	0.00
50.40	8.35	6.43	8.11	0.00
50.60	8.35	6.43	8.11	0.00
50.80	8.35	6.43	8.11	0.00
51.00	8.35	6.43	8.11	0.00
51.20	8.35	6.43	8.11	0.00
51.40	8.35	6.43	8.11	0.00
51.60	8.35	6.43	8.11	0.00
51.80	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.43	8.11	0.00
52.20	8.35	6.43	8.11	0.00
52.40	8.35	6.43	8.11	0.00
52.60	8.35	6.43	8.11	0.00
52.80	8.35	6.43	8.11	0.00
53.00	8.35	6.43	8.11	0.00
53.20	8.35	6.43	8.11	0.00
53.40	8.35	6.43	8.11	0.00
53.60	8.35	6.43	8.11	0.00
53.80	8.35	6.43	8.11	0.00
54.00	8.35	6.43	8.11	0.00
54.20	8.35	6.43	8.11	0.00
54.40	8.35	6.43	8.11	0.00
54.60	8.35	6.43	8.11	0.00
54.80	8.35	6.43	8.11	0.00
55.00	8.35	6.43	8.11	0.00
55.20	8.35	6.43	8.11	0.00
55.40	8.35	6.43	8.11	0.00
55.60	8.35	6.43	8.11	0.00
55.80	8.35	6.43	8.11	0.00
56.00	8.35	6.43	8.11	0.00
56.20	8.35	6.43	8.11	0.00
56.40	8.35	6.43	8.11	0.00
56.60	8.35	6.43	8.11	0.00
56.80	8.35	6.43	8.11	0.00
57.00	8.35	6.43	8.11	0.00
57.20	8.35	6.43	8.11	0.00
57.40	8.35	6.43	8.11	0.00
57.60	8.35	6.43	8.11	0.00
57.80	8.35	6.43	8.11	0.00
58.00	8.35	6.43	8.11	0.00
58.20	8.35	6.43	8.11	0.00
58.40	8.35	6.43	8.11	0.00
58.60	8.35	6.43	8.11	0.00
58.80	8.35	6.43	8.11	0.00
59.00	8.35	6.43	8.11	0.00
59.20	8.35	6.43	8.11	0.00
59.40	8.35	6.43	8.11	0.00
59.60	8.35	6.43	8.11	0.00
59.80	8.35	6.43	8.11	0.00
60.00	8.35	6.43	8.11	0.00
60.20	8.35	6.43	8.11	0.00
60.40	8.35	6.43	8.11	0.00
60.60	8.35	6.43	8.11	0.00
60.80	8.35	6.43	8.11	0.00
61.00	8.35	6.43	8.11	0.00
61.20	8.35	6.43	8.11	0.00
61.40	8.35	6.43	8.11	0.00
61.60	8.35	6.43	8.11	0.00
61.80	8.35	6.43	8.11	0.00
62.00	8.35	6.43	8.11	0.00
62.20	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-8: Area 8 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.43	8.11	0.00
62.60	8.35	6.43	8.11	0.00
62.80	8.35	6.43	8.11	0.00
63.00	8.35	6.43	8.11	0.00
63.20	8.35	6.43	8.11	0.00
63.40	8.35	6.43	8.11	0.00
63.60	8.35	6.43	8.11	0.00
63.80	8.35	6.43	8.11	0.00
64.00	8.35	6.43	8.11	0.00
64.20	8.35	6.43	8.11	0.00
64.40	8.35	6.43	8.11	0.00
64.60	8.35	6.43	8.11	0.00
64.80	8.35	6.43	8.11	0.00
65.00	8.35	6.43	8.11	0.00
65.20	8.35	6.43	8.11	0.00
65.40	8.35	6.43	8.11	0.00
65.60	8.35	6.43	8.11	0.00
65.80	8.35	6.43	8.11	0.00
66.00	8.35	6.43	8.11	0.00
66.20	8.35	6.43	8.11	0.00
66.40	8.35	6.43	8.11	0.00
66.60	8.35	6.43	8.11	0.00
66.80	8.35	6.43	8.11	0.00
67.00	8.35	6.43	8.11	0.00
67.20	8.35	6.43	8.11	0.00
67.40	8.35	6.43	8.11	0.00
67.60	8.35	6.43	8.11	0.00
67.80	8.35	6.43	8.11	0.00
68.00	8.35	6.43	8.11	0.00
68.20	8.35	6.43	8.11	0.00
68.40	8.35	6.43	8.11	0.00
68.60	8.35	6.43	8.11	0.00
68.80	8.35	6.43	8.11	0.00
69.00	8.35	6.43	8.11	0.00
69.20	8.35	6.43	8.11	0.00
69.40	8.35	6.43	8.11	0.00
69.60	8.35	6.43	8.11	0.00
69.80	8.35	6.43	8.11	0.00
70.00	8.35	6.43	8.11	0.00
70.20	8.35	6.43	8.11	0.00
70.40	8.35	6.43	8.11	0.00
70.60	8.35	6.43	8.11	0.00
70.80	8.35	6.43	8.11	0.00
71.00	8.35	6.43	8.11	0.00
71.20	8.35	6.43	8.11	0.00
71.40	8.35	6.43	8.11	0.00
71.60	8.35	6.43	8.11	0.00
71.80	8.35	6.43	8.11	0.00
72.00	8.35	6.43	8.11	0.00

**Summary for Subcatchment P-1C-9: Area 9**

Runoff = 1.56 cfs @ 12.10 hrs, Volume= 4,876 cf, Depth= 7.15"  
 Routed to Pond PV-9 : Pervious Pavers 9

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 NOAA 24-hr D 100-Year Rainfall=8.35"

	Area (sf)	CN	Description
*	133	98	Impervious
*	3,362	98	MVS - Impervious
*	3,564	85	MVS - Pervious
	1,126	80	>75% Grass cover, Good, HSG D
	8,185	90	Weighted Average
	4,690	84	57.30% Pervious Area
	3,495	98	42.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	16	0.0250	0.14		<b>Sheet Flow, 9c1-9c2</b> Grass: Short n= 0.150 P2= 3.54"

**Hydrograph for Subcatchment P-1C-9: Area 9**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	0.00
0.20	0.02	0.00	0.00	0.00
0.40	0.04	0.00	0.00	0.00
0.60	0.06	0.00	0.00	0.00
0.80	0.08	0.00	0.01	0.00
1.00	0.10	0.00	0.01	0.00
1.20	0.12	0.00	0.02	0.00
1.40	0.14	0.00	0.03	0.00
1.60	0.16	0.00	0.04	0.00
1.80	0.18	0.00	0.06	0.01
2.00	0.20	0.00	0.07	0.01
2.20	0.22	0.00	0.09	0.01
2.40	0.24	0.00	0.10	0.01
2.60	0.27	0.00	0.12	0.01
2.80	0.29	0.00	0.14	0.01
3.00	0.31	0.00	0.16	0.01
3.20	0.34	0.00	0.18	0.01
3.40	0.36	0.00	0.20	0.01
3.60	0.39	0.00	0.22	0.01
3.80	0.41	0.00	0.24	0.01
4.00	0.44	0.00	0.26	0.01
4.20	0.46	0.00	0.29	0.01
4.40	0.49	0.01	0.31	0.01
4.60	0.52	0.01	0.33	0.01
4.80	0.54	0.01	0.36	0.01
5.00	0.57	0.02	0.38	0.01
5.20	0.60	0.02	0.41	0.01
5.40	0.63	0.03	0.43	0.01
5.60	0.65	0.03	0.46	0.01
5.80	0.68	0.04	0.49	0.01
6.00	0.71	0.05	0.52	0.02
6.20	0.74	0.06	0.54	0.02
6.40	0.78	0.07	0.57	0.02
6.60	0.81	0.08	0.61	0.02
6.80	0.84	0.09	0.64	0.02
7.00	0.88	0.10	0.67	0.02
7.20	0.92	0.12	0.71	0.02
7.40	0.96	0.13	0.75	0.02
7.60	1.00	0.15	0.79	0.03
7.80	1.04	0.17	0.83	0.03
8.00	1.08	0.19	0.87	0.03
8.20	1.13	0.21	0.92	0.03
8.40	1.18	0.23	0.96	0.03
8.60	1.22	0.26	1.01	0.03
8.80	1.27	0.28	1.06	0.03
9.00	1.32	0.31	1.11	0.04
9.20	1.38	0.34	1.16	0.04
9.40	1.44	0.38	1.22	0.04
9.60	1.51	0.42	1.29	0.05
9.80	1.58	0.46	1.36	0.05
10.00	1.66	0.51	1.43	0.06
10.20	1.74	0.56	1.51	0.06



**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
10.40	1.82	0.62	1.60	0.07
10.60	1.92	0.69	1.70	0.08
10.80	2.04	0.77	1.81	0.09
11.00	2.17	0.87	1.94	0.11
11.20	2.34	0.99	2.11	0.14
11.40	2.53	1.14	2.31	0.17
11.60	2.80	1.35	2.57	0.25
11.80	3.18	1.66	2.94	0.37
12.00	4.00	2.37	3.77	<b>0.92</b>
12.20	5.17	3.43	4.94	<b>0.55</b>
12.40	5.55	3.78	5.31	0.29
12.60	5.82	4.02	5.58	0.20
12.80	6.01	4.21	5.78	0.17
13.00	6.18	4.36	5.94	0.14
13.20	6.31	4.49	6.08	0.12
13.40	6.43	4.60	6.19	0.10
13.60	6.53	4.69	6.29	0.08
13.80	6.61	4.77	6.37	0.08
14.00	6.69	4.85	6.46	0.07
14.20	6.77	4.92	6.53	0.07
14.40	6.84	4.99	6.60	0.06
14.60	6.91	5.05	6.67	0.06
14.80	6.97	5.11	6.73	0.05
15.00	7.03	5.16	6.79	0.05
15.20	7.08	5.21	6.84	0.05
15.40	7.13	5.26	6.89	0.05
15.60	7.17	5.31	6.94	0.04
15.80	7.22	5.35	6.98	0.04
16.00	7.27	5.39	7.03	0.04
16.20	7.31	5.44	7.07	0.04
16.40	7.35	5.48	7.11	0.04
16.60	7.39	5.51	7.15	0.04
16.80	7.43	5.55	7.19	0.04
17.00	7.47	5.59	7.23	0.03
17.20	7.51	5.62	7.27	0.03
17.40	7.54	5.66	7.30	0.03
17.60	7.57	5.69	7.34	0.03
17.80	7.61	5.72	7.37	0.03
18.00	7.64	5.75	7.40	0.03
18.20	7.67	5.78	7.43	0.03
18.40	7.70	5.80	7.46	0.03
18.60	7.72	5.83	7.48	0.03
18.80	7.75	5.86	7.51	0.03
19.00	7.78	5.88	7.54	0.03
19.20	7.81	5.91	7.57	0.03
19.40	7.83	5.94	7.59	0.02
19.60	7.86	5.96	7.62	0.02
19.80	7.89	5.99	7.65	0.02
20.00	7.91	6.01	7.67	0.02
20.20	7.94	6.04	7.70	0.02
20.40	7.96	6.06	7.72	0.02
20.60	7.99	6.08	7.75	0.02

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
20.80	8.01	6.11	7.77	0.02
21.00	8.04	6.13	7.80	0.02
21.20	8.06	6.15	7.82	0.02
21.40	8.08	6.17	7.84	0.02
21.60	8.11	6.20	7.87	0.02
21.80	8.13	6.22	7.89	0.02
22.00	8.15	6.24	7.91	0.02
22.20	8.17	6.26	7.93	0.02
22.40	8.19	6.28	7.95	0.02
22.60	8.21	6.30	7.97	0.02
22.80	8.23	6.32	7.99	0.02
23.00	8.25	6.34	8.01	0.02
23.20	8.27	6.36	8.03	0.02
23.40	8.29	6.38	8.05	0.02
23.60	8.31	6.40	8.07	0.02
23.80	8.33	6.41	8.09	0.02
24.00	<b>8.35</b>	<b>6.43</b>	<b>8.11</b>	0.02
24.20	8.35	6.43	8.11	0.00
24.40	8.35	6.43	8.11	0.00
24.60	8.35	6.43	8.11	0.00
24.80	8.35	6.43	8.11	0.00
25.00	8.35	6.43	8.11	0.00
25.20	8.35	6.43	8.11	0.00
25.40	8.35	6.43	8.11	0.00
25.60	8.35	6.43	8.11	0.00
25.80	8.35	6.43	8.11	0.00
26.00	8.35	6.43	8.11	0.00
26.20	8.35	6.43	8.11	0.00
26.40	8.35	6.43	8.11	0.00
26.60	8.35	6.43	8.11	0.00
26.80	8.35	6.43	8.11	0.00
27.00	8.35	6.43	8.11	0.00
27.20	8.35	6.43	8.11	0.00
27.40	8.35	6.43	8.11	0.00
27.60	8.35	6.43	8.11	0.00
27.80	8.35	6.43	8.11	0.00
28.00	8.35	6.43	8.11	0.00
28.20	8.35	6.43	8.11	0.00
28.40	8.35	6.43	8.11	0.00
28.60	8.35	6.43	8.11	0.00
28.80	8.35	6.43	8.11	0.00
29.00	8.35	6.43	8.11	0.00
29.20	8.35	6.43	8.11	0.00
29.40	8.35	6.43	8.11	0.00
29.60	8.35	6.43	8.11	0.00
29.80	8.35	6.43	8.11	0.00
30.00	8.35	6.43	8.11	0.00
30.20	8.35	6.43	8.11	0.00
30.40	8.35	6.43	8.11	0.00
30.60	8.35	6.43	8.11	0.00
30.80	8.35	6.43	8.11	0.00
31.00	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
31.20	8.35	6.43	8.11	0.00
31.40	8.35	6.43	8.11	0.00
31.60	8.35	6.43	8.11	0.00
31.80	8.35	6.43	8.11	0.00
32.00	8.35	6.43	8.11	0.00
32.20	8.35	6.43	8.11	0.00
32.40	8.35	6.43	8.11	0.00
32.60	8.35	6.43	8.11	0.00
32.80	8.35	6.43	8.11	0.00
33.00	8.35	6.43	8.11	0.00
33.20	8.35	6.43	8.11	0.00
33.40	8.35	6.43	8.11	0.00
33.60	8.35	6.43	8.11	0.00
33.80	8.35	6.43	8.11	0.00
34.00	8.35	6.43	8.11	0.00
34.20	8.35	6.43	8.11	0.00
34.40	8.35	6.43	8.11	0.00
34.60	8.35	6.43	8.11	0.00
34.80	8.35	6.43	8.11	0.00
35.00	8.35	6.43	8.11	0.00
35.20	8.35	6.43	8.11	0.00
35.40	8.35	6.43	8.11	0.00
35.60	8.35	6.43	8.11	0.00
35.80	8.35	6.43	8.11	0.00
36.00	8.35	6.43	8.11	0.00
36.20	8.35	6.43	8.11	0.00
36.40	8.35	6.43	8.11	0.00
36.60	8.35	6.43	8.11	0.00
36.80	8.35	6.43	8.11	0.00
37.00	8.35	6.43	8.11	0.00
37.20	8.35	6.43	8.11	0.00
37.40	8.35	6.43	8.11	0.00
37.60	8.35	6.43	8.11	0.00
37.80	8.35	6.43	8.11	0.00
38.00	8.35	6.43	8.11	0.00
38.20	8.35	6.43	8.11	0.00
38.40	8.35	6.43	8.11	0.00
38.60	8.35	6.43	8.11	0.00
38.80	8.35	6.43	8.11	0.00
39.00	8.35	6.43	8.11	0.00
39.20	8.35	6.43	8.11	0.00
39.40	8.35	6.43	8.11	0.00
39.60	8.35	6.43	8.11	0.00
39.80	8.35	6.43	8.11	0.00
40.00	8.35	6.43	8.11	0.00
40.20	8.35	6.43	8.11	0.00
40.40	8.35	6.43	8.11	0.00
40.60	8.35	6.43	8.11	0.00
40.80	8.35	6.43	8.11	0.00
41.00	8.35	6.43	8.11	0.00
41.20	8.35	6.43	8.11	0.00
41.40	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
41.60	8.35	6.43	8.11	0.00
41.80	8.35	6.43	8.11	0.00
42.00	8.35	6.43	8.11	0.00
42.20	8.35	6.43	8.11	0.00
42.40	8.35	6.43	8.11	0.00
42.60	8.35	6.43	8.11	0.00
42.80	8.35	6.43	8.11	0.00
43.00	8.35	6.43	8.11	0.00
43.20	8.35	6.43	8.11	0.00
43.40	8.35	6.43	8.11	0.00
43.60	8.35	6.43	8.11	0.00
43.80	8.35	6.43	8.11	0.00
44.00	8.35	6.43	8.11	0.00
44.20	8.35	6.43	8.11	0.00
44.40	8.35	6.43	8.11	0.00
44.60	8.35	6.43	8.11	0.00
44.80	8.35	6.43	8.11	0.00
45.00	8.35	6.43	8.11	0.00
45.20	8.35	6.43	8.11	0.00
45.40	8.35	6.43	8.11	0.00
45.60	8.35	6.43	8.11	0.00
45.80	8.35	6.43	8.11	0.00
46.00	8.35	6.43	8.11	0.00
46.20	8.35	6.43	8.11	0.00
46.40	8.35	6.43	8.11	0.00
46.60	8.35	6.43	8.11	0.00
46.80	8.35	6.43	8.11	0.00
47.00	8.35	6.43	8.11	0.00
47.20	8.35	6.43	8.11	0.00
47.40	8.35	6.43	8.11	0.00
47.60	8.35	6.43	8.11	0.00
47.80	8.35	6.43	8.11	0.00
48.00	8.35	6.43	8.11	0.00
48.20	8.35	6.43	8.11	0.00
48.40	8.35	6.43	8.11	0.00
48.60	8.35	6.43	8.11	0.00
48.80	8.35	6.43	8.11	0.00
49.00	8.35	6.43	8.11	0.00
49.20	8.35	6.43	8.11	0.00
49.40	8.35	6.43	8.11	0.00
49.60	8.35	6.43	8.11	0.00
49.80	8.35	6.43	8.11	0.00
50.00	8.35	6.43	8.11	0.00
50.20	8.35	6.43	8.11	0.00
50.40	8.35	6.43	8.11	0.00
50.60	8.35	6.43	8.11	0.00
50.80	8.35	6.43	8.11	0.00
51.00	8.35	6.43	8.11	0.00
51.20	8.35	6.43	8.11	0.00
51.40	8.35	6.43	8.11	0.00
51.60	8.35	6.43	8.11	0.00
51.80	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
52.00	8.35	6.43	8.11	0.00
52.20	8.35	6.43	8.11	0.00
52.40	8.35	6.43	8.11	0.00
52.60	8.35	6.43	8.11	0.00
52.80	8.35	6.43	8.11	0.00
53.00	8.35	6.43	8.11	0.00
53.20	8.35	6.43	8.11	0.00
53.40	8.35	6.43	8.11	0.00
53.60	8.35	6.43	8.11	0.00
53.80	8.35	6.43	8.11	0.00
54.00	8.35	6.43	8.11	0.00
54.20	8.35	6.43	8.11	0.00
54.40	8.35	6.43	8.11	0.00
54.60	8.35	6.43	8.11	0.00
54.80	8.35	6.43	8.11	0.00
55.00	8.35	6.43	8.11	0.00
55.20	8.35	6.43	8.11	0.00
55.40	8.35	6.43	8.11	0.00
55.60	8.35	6.43	8.11	0.00
55.80	8.35	6.43	8.11	0.00
56.00	8.35	6.43	8.11	0.00
56.20	8.35	6.43	8.11	0.00
56.40	8.35	6.43	8.11	0.00
56.60	8.35	6.43	8.11	0.00
56.80	8.35	6.43	8.11	0.00
57.00	8.35	6.43	8.11	0.00
57.20	8.35	6.43	8.11	0.00
57.40	8.35	6.43	8.11	0.00
57.60	8.35	6.43	8.11	0.00
57.80	8.35	6.43	8.11	0.00
58.00	8.35	6.43	8.11	0.00
58.20	8.35	6.43	8.11	0.00
58.40	8.35	6.43	8.11	0.00
58.60	8.35	6.43	8.11	0.00
58.80	8.35	6.43	8.11	0.00
59.00	8.35	6.43	8.11	0.00
59.20	8.35	6.43	8.11	0.00
59.40	8.35	6.43	8.11	0.00
59.60	8.35	6.43	8.11	0.00
59.80	8.35	6.43	8.11	0.00
60.00	8.35	6.43	8.11	0.00
60.20	8.35	6.43	8.11	0.00
60.40	8.35	6.43	8.11	0.00
60.60	8.35	6.43	8.11	0.00
60.80	8.35	6.43	8.11	0.00
61.00	8.35	6.43	8.11	0.00
61.20	8.35	6.43	8.11	0.00
61.40	8.35	6.43	8.11	0.00
61.60	8.35	6.43	8.11	0.00
61.80	8.35	6.43	8.11	0.00
62.00	8.35	6.43	8.11	0.00
62.20	8.35	6.43	8.11	0.00

**Hydrograph for Subcatchment P-1C-9: Area 9 (continued)**

Time (hours)	Precip. (inches)	Perv.Excess (inches)	Imp.Excess (inches)	Runoff (cfs)
62.40	8.35	6.43	8.11	0.00
62.60	8.35	6.43	8.11	0.00
62.80	8.35	6.43	8.11	0.00
63.00	8.35	6.43	8.11	0.00
63.20	8.35	6.43	8.11	0.00
63.40	8.35	6.43	8.11	0.00
63.60	8.35	6.43	8.11	0.00
63.80	8.35	6.43	8.11	0.00
64.00	8.35	6.43	8.11	0.00
64.20	8.35	6.43	8.11	0.00
64.40	8.35	6.43	8.11	0.00
64.60	8.35	6.43	8.11	0.00
64.80	8.35	6.43	8.11	0.00
65.00	8.35	6.43	8.11	0.00
65.20	8.35	6.43	8.11	0.00
65.40	8.35	6.43	8.11	0.00
65.60	8.35	6.43	8.11	0.00
65.80	8.35	6.43	8.11	0.00
66.00	8.35	6.43	8.11	0.00
66.20	8.35	6.43	8.11	0.00
66.40	8.35	6.43	8.11	0.00
66.60	8.35	6.43	8.11	0.00
66.80	8.35	6.43	8.11	0.00
67.00	8.35	6.43	8.11	0.00
67.20	8.35	6.43	8.11	0.00
67.40	8.35	6.43	8.11	0.00
67.60	8.35	6.43	8.11	0.00
67.80	8.35	6.43	8.11	0.00
68.00	8.35	6.43	8.11	0.00
68.20	8.35	6.43	8.11	0.00
68.40	8.35	6.43	8.11	0.00
68.60	8.35	6.43	8.11	0.00
68.80	8.35	6.43	8.11	0.00
69.00	8.35	6.43	8.11	0.00
69.20	8.35	6.43	8.11	0.00
69.40	8.35	6.43	8.11	0.00
69.60	8.35	6.43	8.11	0.00
69.80	8.35	6.43	8.11	0.00
70.00	8.35	6.43	8.11	0.00
70.20	8.35	6.43	8.11	0.00
70.40	8.35	6.43	8.11	0.00
70.60	8.35	6.43	8.11	0.00
70.80	8.35	6.43	8.11	0.00
71.00	8.35	6.43	8.11	0.00
71.20	8.35	6.43	8.11	0.00
71.40	8.35	6.43	8.11	0.00
71.60	8.35	6.43	8.11	0.00
71.80	8.35	6.43	8.11	0.00
72.00	8.35	6.43	8.11	0.00

**Summary for Pond PV-10: Pervious Pavers 10**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 11,071 sf, 41.80% Impervious, Inflow Depth = 6.99" for 100-Year event  
 Inflow = 1.93 cfs @ 12.12 hrs, Volume= 6,453 cf  
 Outflow = 0.56 cfs @ 12.33 hrs, Volume= 6,453 cf, Atten= 71%, Lag= 12.1 min  
 Primary = 0.56 cfs @ 12.33 hrs, Volume= 6,453 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.51' @ 12.33 hrs Surf.Area= 3,564 sf Storage= 2,148 cf

Plug-Flow detention time= 106.6 min calculated for 6,452 cf (100% of inflow)  
 Center-of-Mass det. time= 106.9 min ( 879.3 - 772.4 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.00'	2,252 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,631 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.00	3,564	0	0
544.58	3,564	5,631	5,631

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.99'	<b>4.0" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.62'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.56 cfs @ 12.33 hrs HW=544.51' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.56 cfs of 1.48 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.20 cfs @ 2.24 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.36 cfs @ 1.63 fps)

**Hydrograph for Pond PV-10: Pervious Pavers 10**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.00	0.00
0.20	0.00	0	543.00	0.00
0.40	0.00	0	543.00	0.00
0.60	0.00	0	543.00	0.00
0.80	0.00	1	543.00	0.00
1.00	0.00	3	543.00	0.00
1.20	0.00	6	543.00	0.00
1.40	0.01	10	543.01	0.00
1.60	0.01	14	543.01	0.00
1.80	0.01	18	543.01	0.00
2.00	0.01	23	543.02	0.00
2.20	0.01	28	543.02	0.00
2.40	0.01	34	543.02	0.00
2.60	0.01	40	543.03	0.00
2.80	0.01	45	543.03	0.00
3.00	0.01	51	543.04	0.00
3.20	0.01	57	543.04	0.00
3.40	0.01	63	543.04	0.00
3.60	0.01	69	543.05	0.00
3.80	0.01	74	543.05	0.00
4.00	0.01	80	543.06	0.00
4.20	0.01	86	543.06	0.00
4.40	0.01	91	543.06	0.01
4.60	0.01	97	543.07	0.01
4.80	0.01	103	543.07	0.01
5.00	0.02	109	543.08	0.01
5.20	0.02	115	543.08	0.01
5.40	0.02	121	543.08	0.01
5.60	0.02	127	543.09	0.01
5.80	0.02	133	543.09	0.01
6.00	0.02	139	543.10	0.01
6.20	0.02	145	543.10	0.01
6.40	0.02	152	543.11	0.01
6.60	0.02	159	543.11	0.01
6.80	0.03	166	543.12	0.01
7.00	0.03	174	543.12	0.02
7.20	0.03	182	543.13	0.02
7.40	0.03	190	543.13	0.02
7.60	0.03	199	543.14	0.02
7.80	0.03	208	543.15	0.02
8.00	0.04	217	543.15	0.02
8.20	0.04	226	543.16	0.02
8.40	0.04	235	543.17	0.03
8.60	0.04	245	543.17	0.03
8.80	0.04	255	543.18	0.03
9.00	0.05	264	543.19	0.03
9.20	0.05	275	543.19	0.03
9.40	0.06	288	543.20	0.04
9.60	0.06	303	543.21	0.04
9.80	0.07	320	543.22	0.04
10.00	0.07	338	543.24	0.05
10.20	0.08	359	543.25	0.05



**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.09	380	543.27	0.06
10.60	0.10	404	543.28	0.06
10.80	0.12	437	543.31	0.07
11.00	0.14	482	543.34	0.07
11.20	0.18	542	543.38	0.08
11.40	0.22	623	543.44	0.09
11.60	0.31	733	543.51	0.10
11.80	0.46	914	543.64	0.12
12.00	<b>1.08</b>	1,274	543.89	0.27
12.20	<b>1.06</b>	<b>2,061</b>	<b>544.45</b>	<b>0.54</b>
12.40	0.42	<b>2,130</b>	<b>544.49</b>	<b>0.55</b>
12.60	0.30	2,007	544.41	0.52
12.80	0.24	1,834	544.29	0.48
13.00	0.20	1,663	544.17	0.43
13.20	0.16	1,501	544.05	0.38
13.40	0.14	1,360	543.95	0.32
13.60	0.12	1,249	543.88	0.25
13.80	0.11	1,162	543.82	0.21
14.00	0.10	1,097	543.77	0.18
14.20	0.09	1,044	543.73	0.16
14.40	0.09	1,000	543.70	0.14
14.60	0.08	962	543.67	0.13
14.80	0.07	926	543.65	0.12
15.00	0.07	892	543.63	0.12
15.20	0.06	857	543.60	0.11
15.40	0.06	822	543.58	0.11
15.60	0.06	788	543.55	0.11
15.80	0.06	755	543.53	0.10
16.00	0.06	723	543.51	0.10
16.20	0.05	692	543.49	0.10
16.40	0.05	662	543.46	0.09
16.60	0.05	633	543.44	0.09
16.80	0.05	605	543.42	0.09
17.00	0.05	578	543.41	0.08
17.20	0.04	552	543.39	0.08
17.40	0.04	526	543.37	0.08
17.60	0.04	502	543.35	0.07
17.80	0.04	479	543.34	0.07
18.00	0.04	456	543.32	0.07
18.20	0.04	435	543.30	0.07
18.40	0.04	415	543.29	0.06
18.60	0.04	397	543.28	0.06
18.80	0.03	381	543.27	0.06
19.00	0.03	367	543.26	0.05
19.20	0.03	354	543.25	0.05
19.40	0.03	343	543.24	0.05
19.60	0.03	333	543.23	0.05
19.80	0.03	324	543.23	0.04
20.00	0.03	316	543.22	0.04
20.20	0.03	309	543.22	0.04
20.40	0.03	303	543.21	0.04
20.60	0.03	297	543.21	0.04

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.03	291	543.20	0.04
21.00	0.03	286	543.20	0.04
21.20	0.03	282	543.20	0.04
21.40	0.03	277	543.19	0.03
21.60	0.03	273	543.19	0.03
21.80	0.03	270	543.19	0.03
22.00	0.03	266	543.19	0.03
22.20	0.03	263	543.18	0.03
22.40	0.03	259	543.18	0.03
22.60	0.03	256	543.18	0.03
22.80	0.03	253	543.18	0.03
23.00	0.03	250	543.18	0.03
23.20	0.02	247	543.17	0.03
23.40	0.02	244	543.17	0.03
23.60	0.02	241	543.17	0.03
23.80	0.02	239	543.17	0.03
24.00	0.02	236	543.17	0.03
24.20	0.00	224	543.16	0.02
24.40	0.00	208	543.15	0.02
24.60	0.00	193	543.14	0.02
24.80	0.00	180	543.13	0.02
25.00	0.00	169	543.12	0.02
25.20	0.00	158	543.11	0.01
25.40	0.00	149	543.10	0.01
25.60	0.00	141	543.10	0.01
25.80	0.00	133	543.09	0.01
26.00	0.00	126	543.09	0.01
26.20	0.00	120	543.08	0.01
26.40	0.00	114	543.08	0.01
26.60	0.00	109	543.08	0.01
26.80	0.00	104	543.07	0.01
27.00	0.00	99	543.07	0.01
27.20	0.00	95	543.07	0.01
27.40	0.00	91	543.06	0.01
27.60	0.00	87	543.06	0.00
27.80	0.00	84	543.06	0.00
28.00	0.00	81	543.06	0.00
28.20	0.00	77	543.05	0.00
28.40	0.00	75	543.05	0.00
28.60	0.00	72	543.05	0.00
28.80	0.00	69	543.05	0.00
29.00	0.00	67	543.05	0.00
29.20	0.00	65	543.05	0.00
29.40	0.00	63	543.04	0.00
29.60	0.00	61	543.04	0.00
29.80	0.00	59	543.04	0.00
30.00	0.00	57	543.04	0.00
30.20	0.00	55	543.04	0.00
30.40	0.00	53	543.04	0.00
30.60	0.00	52	543.04	0.00
30.80	0.00	50	543.04	0.00
31.00	0.00	49	543.03	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	47	543.03	0.00
31.40	0.00	46	543.03	0.00
31.60	0.00	45	543.03	0.00
31.80	0.00	44	543.03	0.00
32.00	0.00	42	543.03	0.00
32.20	0.00	41	543.03	0.00
32.40	0.00	40	543.03	0.00
32.60	0.00	39	543.03	0.00
32.80	0.00	38	543.03	0.00
33.00	0.00	37	543.03	0.00
33.20	0.00	36	543.03	0.00
33.40	0.00	35	543.02	0.00
33.60	0.00	35	543.02	0.00
33.80	0.00	34	543.02	0.00
34.00	0.00	33	543.02	0.00
34.20	0.00	32	543.02	0.00
34.40	0.00	31	543.02	0.00
34.60	0.00	31	543.02	0.00
34.80	0.00	30	543.02	0.00
35.00	0.00	29	543.02	0.00
35.20	0.00	29	543.02	0.00
35.40	0.00	28	543.02	0.00
35.60	0.00	27	543.02	0.00
35.80	0.00	27	543.02	0.00
36.00	0.00	26	543.02	0.00
36.20	0.00	25	543.02	0.00
36.40	0.00	25	543.02	0.00
36.60	0.00	24	543.02	0.00
36.80	0.00	24	543.02	0.00
37.00	0.00	23	543.02	0.00
37.20	0.00	23	543.02	0.00
37.40	0.00	22	543.02	0.00
37.60	0.00	22	543.02	0.00
37.80	0.00	21	543.01	0.00
38.00	0.00	21	543.01	0.00
38.20	0.00	20	543.01	0.00
38.40	0.00	20	543.01	0.00
38.60	0.00	20	543.01	0.00
38.80	0.00	19	543.01	0.00
39.00	0.00	19	543.01	0.00
39.20	0.00	18	543.01	0.00
39.40	0.00	18	543.01	0.00
39.60	0.00	18	543.01	0.00
39.80	0.00	17	543.01	0.00
40.00	0.00	17	543.01	0.00
40.20	0.00	17	543.01	0.00
40.40	0.00	16	543.01	0.00
40.60	0.00	16	543.01	0.00
40.80	0.00	16	543.01	0.00
41.00	0.00	15	543.01	0.00
41.20	0.00	15	543.01	0.00
41.40	0.00	15	543.01	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	14	543.01	0.00
41.80	0.00	14	543.01	0.00
42.00	0.00	14	543.01	0.00
42.20	0.00	13	543.01	0.00
42.40	0.00	13	543.01	0.00
42.60	0.00	13	543.01	0.00
42.80	0.00	13	543.01	0.00
43.00	0.00	12	543.01	0.00
43.20	0.00	12	543.01	0.00
43.40	0.00	12	543.01	0.00
43.60	0.00	12	543.01	0.00
43.80	0.00	11	543.01	0.00
44.00	0.00	11	543.01	0.00
44.20	0.00	11	543.01	0.00
44.40	0.00	11	543.01	0.00
44.60	0.00	10	543.01	0.00
44.80	0.00	10	543.01	0.00
45.00	0.00	10	543.01	0.00
45.20	0.00	10	543.01	0.00
45.40	0.00	10	543.01	0.00
45.60	0.00	9	543.01	0.00
45.80	0.00	9	543.01	0.00
46.00	0.00	9	543.01	0.00
46.20	0.00	9	543.01	0.00
46.40	0.00	9	543.01	0.00
46.60	0.00	8	543.01	0.00
46.80	0.00	8	543.01	0.00
47.00	0.00	8	543.01	0.00
47.20	0.00	8	543.01	0.00
47.40	0.00	8	543.01	0.00
47.60	0.00	7	543.01	0.00
47.80	0.00	7	543.01	0.00
48.00	0.00	7	543.01	0.00
48.20	0.00	7	543.00	0.00
48.40	0.00	7	543.00	0.00
48.60	0.00	7	543.00	0.00
48.80	0.00	7	543.00	0.00
49.00	0.00	6	543.00	0.00
49.20	0.00	6	543.00	0.00
49.40	0.00	6	543.00	0.00
49.60	0.00	6	543.00	0.00
49.80	0.00	6	543.00	0.00
50.00	0.00	6	543.00	0.00
50.20	0.00	5	543.00	0.00
50.40	0.00	5	543.00	0.00
50.60	0.00	5	543.00	0.00
50.80	0.00	5	543.00	0.00
51.00	0.00	5	543.00	0.00
51.20	0.00	5	543.00	0.00
51.40	0.00	5	543.00	0.00
51.60	0.00	5	543.00	0.00
51.80	0.00	4	543.00	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	4	543.00	0.00
52.20	0.00	4	543.00	0.00
52.40	0.00	4	543.00	0.00
52.60	0.00	4	543.00	0.00
52.80	0.00	4	543.00	0.00
53.00	0.00	4	543.00	0.00
53.20	0.00	4	543.00	0.00
53.40	0.00	3	543.00	0.00
53.60	0.00	3	543.00	0.00
53.80	0.00	3	543.00	0.00
54.00	0.00	3	543.00	0.00
54.20	0.00	3	543.00	0.00
54.40	0.00	3	543.00	0.00
54.60	0.00	3	543.00	0.00
54.80	0.00	3	543.00	0.00
55.00	0.00	3	543.00	0.00
55.20	0.00	2	543.00	0.00
55.40	0.00	2	543.00	0.00
55.60	0.00	2	543.00	0.00
55.80	0.00	2	543.00	0.00
56.00	0.00	2	543.00	0.00
56.20	0.00	2	543.00	0.00
56.40	0.00	2	543.00	0.00
56.60	0.00	2	543.00	0.00
56.80	0.00	2	543.00	0.00
57.00	0.00	2	543.00	0.00
57.20	0.00	1	543.00	0.00
57.40	0.00	1	543.00	0.00
57.60	0.00	1	543.00	0.00
57.80	0.00	1	543.00	0.00
58.00	0.00	1	543.00	0.00
58.20	0.00	1	543.00	0.00
58.40	0.00	1	543.00	0.00
58.60	0.00	1	543.00	0.00
58.80	0.00	1	543.00	0.00
59.00	0.00	1	543.00	0.00
59.20	0.00	1	543.00	0.00
59.40	0.00	1	543.00	0.00
59.60	0.00	0	543.00	0.00
59.80	0.00	0	543.00	0.00
60.00	0.00	0	543.00	0.00
60.20	0.00	0	543.00	0.00
60.40	0.00	0	543.00	0.00
60.60	0.00	0	543.00	0.00
60.80	0.00	0	543.00	0.00
61.00	0.00	0	543.00	0.00
61.20	0.00	0	543.00	0.00
61.40	0.00	0	543.00	0.00
61.60	0.00	0	543.00	0.00
61.80	0.00	0	543.00	0.00
62.00	0.00	0	543.00	0.00
62.20	0.00	0	543.00	0.00

**Hydrograph for Pond PV-10: Pervious Pavers 10 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	543.00	0.00
62.60	0.00	0	543.00	0.00
62.80	0.00	0	543.00	0.00
63.00	0.00	0	543.00	0.00
63.20	0.00	0	543.00	0.00
63.40	0.00	0	543.00	0.00
63.60	0.00	0	543.00	0.00
63.80	0.00	0	543.00	0.00
64.00	0.00	0	543.00	0.00
64.20	0.00	0	543.00	0.00
64.40	0.00	0	543.00	0.00
64.60	0.00	0	543.00	0.00
64.80	0.00	0	543.00	0.00
65.00	0.00	0	543.00	0.00
65.20	0.00	0	543.00	0.00
65.40	0.00	0	543.00	0.00
65.60	0.00	0	543.00	0.00
65.80	0.00	0	543.00	0.00
66.00	0.00	0	543.00	0.00
66.20	0.00	0	543.00	0.00
66.40	0.00	0	543.00	0.00
66.60	0.00	0	543.00	0.00
66.80	0.00	0	543.00	0.00
67.00	0.00	0	543.00	0.00
67.20	0.00	0	543.00	0.00
67.40	0.00	0	543.00	0.00
67.60	0.00	0	543.00	0.00
67.80	0.00	0	543.00	0.00
68.00	0.00	0	543.00	0.00
68.20	0.00	0	543.00	0.00
68.40	0.00	0	543.00	0.00
68.60	0.00	0	543.00	0.00
68.80	0.00	0	543.00	0.00
69.00	0.00	0	543.00	0.00
69.20	0.00	0	543.00	0.00
69.40	0.00	0	543.00	0.00
69.60	0.00	0	543.00	0.00
69.80	0.00	0	543.00	0.00
70.00	0.00	0	543.00	0.00
70.20	0.00	0	543.00	0.00
70.40	0.00	0	543.00	0.00
70.60	0.00	0	543.00	0.00
70.80	0.00	0	543.00	0.00
71.00	0.00	0	543.00	0.00
71.20	0.00	0	543.00	0.00
71.40	0.00	0	543.00	0.00
71.60	0.00	0	543.00	0.00
71.80	0.00	0	543.00	0.00
72.00	0.00	0	543.00	0.00

**Stage-Area-Storage for Pond PV-10: Pervious Pavers 10**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.00	3,564	0	543.52	3,564	741
543.01	3,564	14	543.53	3,564	756
543.02	3,564	29	543.54	3,564	770
543.03	3,564	43	543.55	3,564	784
543.04	3,564	57	543.56	3,564	798
543.05	3,564	71	543.57	3,564	813
543.06	3,564	86	543.58	3,564	827
543.07	3,564	100	543.59	3,564	841
543.08	3,564	114	543.60	3,564	855
543.09	3,564	128	543.61	3,564	870
543.10	3,564	143	543.62	3,564	884
543.11	3,564	157	543.63	3,564	898
543.12	3,564	171	543.64	3,564	912
543.13	3,564	185	543.65	3,564	927
543.14	3,564	200	543.66	3,564	941
543.15	3,564	214	543.67	3,564	955
543.16	3,564	228	543.68	3,564	969
543.17	3,564	242	543.69	3,564	984
543.18	3,564	257	543.70	3,564	998
543.19	3,564	271	543.71	3,564	1,012
543.20	3,564	285	543.72	3,564	1,026
543.21	3,564	299	543.73	3,564	1,041
543.22	3,564	314	543.74	3,564	1,055
543.23	3,564	328	543.75	3,564	1,069
543.24	3,564	342	543.76	3,564	1,083
543.25	3,564	356	543.77	3,564	1,098
543.26	3,564	371	543.78	3,564	1,112
543.27	3,564	385	543.79	3,564	1,126
543.28	3,564	399	543.80	3,564	1,140
543.29	3,564	413	543.81	3,564	1,155
543.30	3,564	428	543.82	3,564	1,169
543.31	3,564	442	543.83	3,564	1,183
543.32	3,564	456	543.84	3,564	1,198
543.33	3,564	470	543.85	3,564	1,212
543.34	3,564	485	543.86	3,564	1,226
543.35	3,564	499	543.87	3,564	1,240
543.36	3,564	513	543.88	3,564	1,255
543.37	3,564	527	543.89	3,564	1,269
543.38	3,564	542	543.90	3,564	1,283
543.39	3,564	556	543.91	3,564	1,297
543.40	3,564	570	543.92	3,564	1,312
543.41	3,564	584	543.93	3,564	1,326
543.42	3,564	599	543.94	3,564	1,340
543.43	3,564	613	543.95	3,564	1,354
543.44	3,564	627	543.96	3,564	1,369
543.45	3,564	642	543.97	3,564	1,383
543.46	3,564	656	543.98	3,564	1,397
543.47	3,564	670	543.99	3,564	1,411
543.48	3,564	684	544.00	3,564	1,426
543.49	3,564	699	544.01	3,564	1,440
543.50	3,564	713	544.02	3,564	1,454
543.51	3,564	727	544.03	3,564	1,468

**Stage-Area-Storage for Pond PV-10: Pervious Pavers 10 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.04	3,564	1,483	544.56	3,564	2,224
544.05	3,564	1,497	544.57	3,564	2,238
544.06	3,564	1,511	544.58	3,564	<b>2,252</b>
544.07	3,564	1,525			
544.08	3,564	1,540			
544.09	3,564	1,554			
544.10	3,564	1,568			
544.11	3,564	1,582			
544.12	3,564	1,597			
544.13	3,564	1,611			
544.14	3,564	1,625			
544.15	3,564	1,639			
544.16	3,564	1,654			
544.17	3,564	1,668			
544.18	3,564	1,682			
544.19	3,564	1,696			
544.20	3,564	1,711			
544.21	3,564	1,725			
544.22	3,564	1,739			
544.23	3,564	1,753			
544.24	3,564	1,768			
544.25	3,564	1,782			
544.26	3,564	1,796			
544.27	3,564	1,811			
544.28	3,564	1,825			
544.29	3,564	1,839			
544.30	3,564	1,853			
544.31	3,564	1,868			
544.32	3,564	1,882			
544.33	3,564	1,896			
544.34	3,564	1,910			
544.35	3,564	1,925			
544.36	3,564	1,939			
544.37	3,564	1,953			
544.38	3,564	1,967			
544.39	3,564	1,982			
544.40	3,564	1,996			
544.41	3,564	2,010			
544.42	3,564	2,024			
544.43	3,564	2,039			
544.44	3,564	2,053			
544.45	3,564	2,067			
544.46	3,564	2,081			
544.47	3,564	2,096			
544.48	3,564	2,110			
544.49	3,564	2,124			
544.50	3,564	2,138			
544.51	3,564	2,153			
544.52	3,564	2,167			
544.53	3,564	2,181			
544.54	3,564	2,195			
544.55	3,564	2,210			



**Summary for Pond PV-11: Pervious Pavers 11**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,542 sf, 60.38% Impervious, Inflow Depth = 7.49" for 100-Year event  
 Inflow = 1.27 cfs @ 12.09 hrs, Volume= 4,085 cf  
 Outflow = 0.40 cfs @ 12.21 hrs, Volume= 4,085 cf, Atten= 69%, Lag= 7.4 min  
 Primary = 0.40 cfs @ 12.21 hrs, Volume= 4,085 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Starting Elev= 543.50' Storage= 0 cf  
 Peak Elev= 545.03' @ 12.21 hrs Surf.Area= 2,592 sf Storage= 1,455 cf

Plug-Flow detention time= 145.8 min calculated for 4,084 cf (100% of inflow)  
 Center-of-Mass det. time= 146.0 min ( 901.3 - 755.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.63'	2,592 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 6,480 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.63	2,592	0	0
546.13	2,592	6,480	6,480

Device	Routing	Invert	Outlet Devices
#1	Primary	541.50'	<b>6.0" Round Culvert</b> L= 74.0' Ke= 0.500 Inlet / Outlet Invert= 541.50' / 541.13' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.62'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	544.30'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.40 cfs @ 12.21 hrs HW=545.03' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.40 cfs of 1.22 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.08 cfs @ 2.20 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.32 cfs @ 1.44 fps)

**Hydrograph for Pond PV-11: Pervious Pavers 11**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.63	0.00
0.20	0.00	0	543.63	0.00
0.40	0.00	0	543.63	0.00
0.60	0.00	0	543.63	0.00
0.80	0.00	1	543.63	0.00
1.00	0.00	3	543.63	0.00
1.20	0.00	6	543.64	0.00
1.40	0.01	9	543.64	0.00
1.60	0.01	13	543.64	0.00
1.80	0.01	17	543.65	0.00
2.00	0.01	21	543.65	0.00
2.20	0.01	26	543.65	0.00
2.40	0.01	30	543.66	0.00
2.60	0.01	35	543.66	0.00
2.80	0.01	40	543.67	0.00
3.00	0.01	45	543.67	0.00
3.20	0.01	49	543.68	0.00
3.40	0.01	54	543.68	0.00
3.60	0.01	59	543.69	0.00
3.80	0.01	64	543.69	0.00
4.00	0.01	69	543.70	0.00
4.20	0.01	74	543.70	0.00
4.40	0.01	78	543.71	0.01
4.60	0.01	83	543.71	0.01
4.80	0.01	88	543.71	0.01
5.00	0.01	93	543.72	0.01
5.20	0.01	97	543.72	0.01
5.40	0.01	102	543.73	0.01
5.60	0.01	106	543.73	0.01
5.80	0.01	110	543.74	0.01
6.00	0.02	114	543.74	0.01
6.20	0.02	119	543.74	0.01
6.40	0.02	123	543.75	0.01
6.60	0.02	128	543.75	0.01
6.80	0.02	134	543.76	0.01
7.00	0.02	139	543.76	0.01
7.20	0.02	145	543.77	0.01
7.40	0.02	151	543.78	0.01
7.60	0.02	157	543.78	0.02
7.80	0.03	163	543.79	0.02
8.00	0.03	170	543.79	0.02
8.20	0.03	176	543.80	0.02
8.40	0.03	183	543.81	0.02
8.60	0.03	190	543.81	0.02
8.80	0.03	198	543.82	0.02
9.00	0.03	206	543.83	0.02
9.20	0.04	215	543.84	0.02
9.40	0.04	226	543.85	0.02
9.60	0.04	239	543.86	0.02
9.80	0.05	254	543.88	0.03
10.00	0.05	271	543.89	0.03
10.20	0.05	289	543.91	0.03

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.06	310	543.93	0.03
10.60	0.07	333	543.95	0.03
10.80	0.08	365	543.98	0.03
11.00	0.09	405	544.02	0.04
11.20	0.12	458	544.07	0.04
11.40	0.14	527	544.14	0.04
11.60	0.21	623	544.23	0.05
11.80	0.31	771	544.37	0.07
12.00	<b>0.76</b>	1,071	544.66	0.25
12.20	<b>0.44</b>	<b>1,454</b>	<b>545.03</b>	<b>0.40</b>
12.40	0.23	<b>1,387</b>	<b>544.97</b>	<b>0.37</b>
12.60	0.17	1,274	544.86	0.34
12.80	0.14	1,157	544.75	0.29
13.00	0.12	1,056	544.65	0.24
13.20	0.10	979	544.57	0.18
13.40	0.08	923	544.52	0.15
13.60	0.07	879	544.48	0.12
13.80	0.06	846	544.45	0.10
14.00	0.06	820	544.42	0.09
14.20	0.06	799	544.40	0.08
14.40	0.05	782	544.38	0.07
14.60	0.05	766	544.37	0.07
14.80	0.04	752	544.36	0.06
15.00	0.04	738	544.34	0.06
15.20	0.04	724	544.33	0.06
15.40	0.04	712	544.32	0.05
15.60	0.04	701	544.31	0.05
15.80	0.03	690	544.30	0.05
16.00	0.03	679	544.29	0.05
16.20	0.03	667	544.27	0.05
16.40	0.03	655	544.26	0.05
16.60	0.03	643	544.25	0.05
16.80	0.03	630	544.24	0.05
17.00	0.03	617	544.22	0.05
17.20	0.03	603	544.21	0.05
17.40	0.03	589	544.20	0.05
17.60	0.02	575	544.18	0.04
17.80	0.02	560	544.17	0.04
18.00	0.02	545	544.16	0.04
18.20	0.02	530	544.14	0.04
18.40	0.02	515	544.13	0.04
18.60	0.02	501	544.11	0.04
18.80	0.02	487	544.10	0.04
19.00	0.02	473	544.09	0.04
19.20	0.02	459	544.07	0.04
19.40	0.02	446	544.06	0.04
19.60	0.02	433	544.05	0.04
19.80	0.02	421	544.04	0.04
20.00	0.02	408	544.02	0.04
20.20	0.02	396	544.01	0.04
20.40	0.02	385	544.00	0.03
20.60	0.02	373	543.99	0.03

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	362	543.98	0.03
21.00	0.02	352	543.97	0.03
21.20	0.02	341	543.96	0.03
21.40	0.02	331	543.95	0.03
21.60	0.02	321	543.94	0.03
21.80	0.02	311	543.93	0.03
22.00	0.02	302	543.92	0.03
22.20	0.02	293	543.91	0.03
22.40	0.02	284	543.90	0.03
22.60	0.02	276	543.90	0.03
22.80	0.02	267	543.89	0.03
23.00	0.01	259	543.88	0.03
23.20	0.01	252	543.87	0.03
23.40	0.01	244	543.87	0.02
23.60	0.01	237	543.86	0.02
23.80	0.01	230	543.85	0.02
24.00	0.01	223	543.85	0.02
24.20	0.00	208	543.83	0.02
24.40	0.00	193	543.82	0.02
24.60	0.00	179	543.80	0.02
24.80	0.00	167	543.79	0.02
25.00	0.00	155	543.78	0.02
25.20	0.00	145	543.77	0.01
25.40	0.00	135	543.76	0.01
25.60	0.00	127	543.75	0.01
25.80	0.00	119	543.74	0.01
26.00	0.00	112	543.74	0.01
26.20	0.00	105	543.73	0.01
26.40	0.00	100	543.73	0.01
26.60	0.00	94	543.72	0.01
26.80	0.00	89	543.72	0.01
27.00	0.00	85	543.71	0.01
27.20	0.00	81	543.71	0.01
27.40	0.00	77	543.70	0.01
27.60	0.00	73	543.70	0.00
27.80	0.00	70	543.70	0.00
28.00	0.00	67	543.69	0.00
28.20	0.00	64	543.69	0.00
28.40	0.00	62	543.69	0.00
28.60	0.00	59	543.69	0.00
28.80	0.00	57	543.68	0.00
29.00	0.00	55	543.68	0.00
29.20	0.00	53	543.68	0.00
29.40	0.00	51	543.68	0.00
29.60	0.00	49	543.68	0.00
29.80	0.00	47	543.68	0.00
30.00	0.00	45	543.67	0.00
30.20	0.00	44	543.67	0.00
30.40	0.00	42	543.67	0.00
30.60	0.00	41	543.67	0.00
30.80	0.00	40	543.67	0.00
31.00	0.00	38	543.67	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	37	543.67	0.00
31.40	0.00	36	543.66	0.00
31.60	0.00	35	543.66	0.00
31.80	0.00	34	543.66	0.00
32.00	0.00	33	543.66	0.00
32.20	0.00	32	543.66	0.00
32.40	0.00	31	543.66	0.00
32.60	0.00	30	543.66	0.00
32.80	0.00	29	543.66	0.00
33.00	0.00	29	543.66	0.00
33.20	0.00	28	543.66	0.00
33.40	0.00	27	543.66	0.00
33.60	0.00	26	543.66	0.00
33.80	0.00	26	543.65	0.00
34.00	0.00	25	543.65	0.00
34.20	0.00	24	543.65	0.00
34.40	0.00	24	543.65	0.00
34.60	0.00	23	543.65	0.00
34.80	0.00	22	543.65	0.00
35.00	0.00	22	543.65	0.00
35.20	0.00	21	543.65	0.00
35.40	0.00	21	543.65	0.00
35.60	0.00	20	543.65	0.00
35.80	0.00	20	543.65	0.00
36.00	0.00	19	543.65	0.00
36.20	0.00	19	543.65	0.00
36.40	0.00	18	543.65	0.00
36.60	0.00	18	543.65	0.00
36.80	0.00	18	543.65	0.00
37.00	0.00	17	543.65	0.00
37.20	0.00	17	543.65	0.00
37.40	0.00	16	543.65	0.00
37.60	0.00	16	543.65	0.00
37.80	0.00	16	543.65	0.00
38.00	0.00	15	543.64	0.00
38.20	0.00	15	543.64	0.00
38.40	0.00	15	543.64	0.00
38.60	0.00	14	543.64	0.00
38.80	0.00	14	543.64	0.00
39.00	0.00	14	543.64	0.00
39.20	0.00	13	543.64	0.00
39.40	0.00	13	543.64	0.00
39.60	0.00	13	543.64	0.00
39.80	0.00	12	543.64	0.00
40.00	0.00	12	543.64	0.00
40.20	0.00	12	543.64	0.00
40.40	0.00	12	543.64	0.00
40.60	0.00	11	543.64	0.00
40.80	0.00	11	543.64	0.00
41.00	0.00	11	543.64	0.00
41.20	0.00	11	543.64	0.00
41.40	0.00	10	543.64	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	10	543.64	0.00
41.80	0.00	10	543.64	0.00
42.00	0.00	10	543.64	0.00
42.20	0.00	10	543.64	0.00
42.40	0.00	9	543.64	0.00
42.60	0.00	9	543.64	0.00
42.80	0.00	9	543.64	0.00
43.00	0.00	9	543.64	0.00
43.20	0.00	9	543.64	0.00
43.40	0.00	8	543.64	0.00
43.60	0.00	8	543.64	0.00
43.80	0.00	8	543.64	0.00
44.00	0.00	8	543.64	0.00
44.20	0.00	8	543.64	0.00
44.40	0.00	7	543.64	0.00
44.60	0.00	7	543.64	0.00
44.80	0.00	7	543.64	0.00
45.00	0.00	7	543.64	0.00
45.20	0.00	7	543.64	0.00
45.40	0.00	7	543.64	0.00
45.60	0.00	6	543.64	0.00
45.80	0.00	6	543.64	0.00
46.00	0.00	6	543.64	0.00
46.20	0.00	6	543.64	0.00
46.40	0.00	6	543.64	0.00
46.60	0.00	6	543.64	0.00
46.80	0.00	6	543.64	0.00
47.00	0.00	5	543.64	0.00
47.20	0.00	5	543.64	0.00
47.40	0.00	5	543.63	0.00
47.60	0.00	5	543.63	0.00
47.80	0.00	5	543.63	0.00
48.00	0.00	5	543.63	0.00
48.20	0.00	5	543.63	0.00
48.40	0.00	5	543.63	0.00
48.60	0.00	4	543.63	0.00
48.80	0.00	4	543.63	0.00
49.00	0.00	4	543.63	0.00
49.20	0.00	4	543.63	0.00
49.40	0.00	4	543.63	0.00
49.60	0.00	4	543.63	0.00
49.80	0.00	4	543.63	0.00
50.00	0.00	4	543.63	0.00
50.20	0.00	4	543.63	0.00
50.40	0.00	3	543.63	0.00
50.60	0.00	3	543.63	0.00
50.80	0.00	3	543.63	0.00
51.00	0.00	3	543.63	0.00
51.20	0.00	3	543.63	0.00
51.40	0.00	3	543.63	0.00
51.60	0.00	3	543.63	0.00
51.80	0.00	3	543.63	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	3	543.63	0.00
52.20	0.00	3	543.63	0.00
52.40	0.00	2	543.63	0.00
52.60	0.00	2	543.63	0.00
52.80	0.00	2	543.63	0.00
53.00	0.00	2	543.63	0.00
53.20	0.00	2	543.63	0.00
53.40	0.00	2	543.63	0.00
53.60	0.00	2	543.63	0.00
53.80	0.00	2	543.63	0.00
54.00	0.00	2	543.63	0.00
54.20	0.00	2	543.63	0.00
54.40	0.00	2	543.63	0.00
54.60	0.00	2	543.63	0.00
54.80	0.00	1	543.63	0.00
55.00	0.00	1	543.63	0.00
55.20	0.00	1	543.63	0.00
55.40	0.00	1	543.63	0.00
55.60	0.00	1	543.63	0.00
55.80	0.00	1	543.63	0.00
56.00	0.00	1	543.63	0.00
56.20	0.00	1	543.63	0.00
56.40	0.00	1	543.63	0.00
56.60	0.00	1	543.63	0.00
56.80	0.00	1	543.63	0.00
57.00	0.00	1	543.63	0.00
57.20	0.00	1	543.63	0.00
57.40	0.00	1	543.63	0.00
57.60	0.00	0	543.63	0.00
57.80	0.00	0	543.63	0.00
58.00	0.00	0	543.63	0.00
58.20	0.00	0	543.63	0.00
58.40	0.00	0	543.63	0.00
58.60	0.00	0	543.63	0.00
58.80	0.00	0	543.63	0.00
59.00	0.00	0	543.63	0.00
59.20	0.00	0	543.63	0.00
59.40	0.00	0	543.63	0.00
59.60	0.00	0	543.63	0.00
59.80	0.00	0	543.63	0.00
60.00	0.00	0	543.63	0.00
60.20	0.00	0	543.63	0.00
60.40	0.00	0	543.63	0.00
60.60	0.00	0	543.63	0.00
60.80	0.00	0	543.63	0.00
61.00	0.00	0	543.63	0.00
61.20	0.00	0	543.63	0.00
61.40	0.00	0	543.63	0.00
61.60	0.00	0	543.63	0.00
61.80	0.00	0	543.63	0.00
62.00	0.00	0	543.63	0.00
62.20	0.00	0	543.63	0.00

**Hydrograph for Pond PV-11: Pervious Pavers 11 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	543.63	0.00
62.60	0.00	0	543.63	0.00
62.80	0.00	0	543.63	0.00
63.00	0.00	0	543.63	0.00
63.20	0.00	0	543.63	0.00
63.40	0.00	0	543.63	0.00
63.60	0.00	0	543.63	0.00
63.80	0.00	0	543.63	0.00
64.00	0.00	0	543.63	0.00
64.20	0.00	0	543.63	0.00
64.40	0.00	0	543.63	0.00
64.60	0.00	0	543.63	0.00
64.80	0.00	0	543.63	0.00
65.00	0.00	0	543.63	0.00
65.20	0.00	0	543.63	0.00
65.40	0.00	0	543.63	0.00
65.60	0.00	0	543.63	0.00
65.80	0.00	0	543.63	0.00
66.00	0.00	0	543.63	0.00
66.20	0.00	0	543.63	0.00
66.40	0.00	0	543.63	0.00
66.60	0.00	0	543.63	0.00
66.80	0.00	0	543.63	0.00
67.00	0.00	0	543.63	0.00
67.20	0.00	0	543.63	0.00
67.40	0.00	0	543.63	0.00
67.60	0.00	0	543.63	0.00
67.80	0.00	0	543.63	0.00
68.00	0.00	0	543.63	0.00
68.20	0.00	0	543.63	0.00
68.40	0.00	0	543.63	0.00
68.60	0.00	0	543.63	0.00
68.80	0.00	0	543.63	0.00
69.00	0.00	0	543.63	0.00
69.20	0.00	0	543.63	0.00
69.40	0.00	0	543.63	0.00
69.60	0.00	0	543.63	0.00
69.80	0.00	0	543.63	0.00
70.00	0.00	0	543.63	0.00
70.20	0.00	0	543.63	0.00
70.40	0.00	0	543.63	0.00
70.60	0.00	0	543.63	0.00
70.80	0.00	0	543.63	0.00
71.00	0.00	0	543.63	0.00
71.20	0.00	0	543.63	0.00
71.40	0.00	0	543.63	0.00
71.60	0.00	0	543.63	0.00
71.80	0.00	0	543.63	0.00
72.00	0.00	0	543.63	0.00



**Stage-Area-Storage for Pond PV-11: Pervious Pavers 11**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.63	2,592	0	544.15	2,592	539
543.64	2,592	10	544.16	2,592	550
543.65	2,592	21	544.17	2,592	560
543.66	2,592	31	544.18	2,592	570
543.67	2,592	41	544.19	2,592	581
543.68	2,592	52	544.20	2,592	591
543.69	2,592	62	544.21	2,592	601
543.70	2,592	73	544.22	2,592	612
543.71	2,592	83	544.23	2,592	622
543.72	2,592	93	544.24	2,592	632
543.73	2,592	104	544.25	2,592	643
543.74	2,592	114	544.26	2,592	653
543.75	2,592	124	544.27	2,592	664
543.76	2,592	135	544.28	2,592	674
543.77	2,592	145	544.29	2,592	684
543.78	2,592	156	544.30	2,592	695
543.79	2,592	166	544.31	2,592	705
543.80	2,592	176	544.32	2,592	715
543.81	2,592	187	544.33	2,592	726
543.82	2,592	197	544.34	2,592	736
543.83	2,592	207	544.35	2,592	746
543.84	2,592	218	544.36	2,592	757
543.85	2,592	228	544.37	2,592	767
543.86	2,592	238	544.38	2,592	778
543.87	2,592	249	544.39	2,592	788
543.88	2,592	259	544.40	2,592	798
543.89	2,592	270	544.41	2,592	809
543.90	2,592	280	544.42	2,592	819
543.91	2,592	290	544.43	2,592	829
543.92	2,592	301	544.44	2,592	840
543.93	2,592	311	544.45	2,592	850
543.94	2,592	321	544.46	2,592	861
543.95	2,592	332	544.47	2,592	871
543.96	2,592	342	544.48	2,592	881
543.97	2,592	353	544.49	2,592	892
543.98	2,592	363	544.50	2,592	902
543.99	2,592	373	544.51	2,592	912
544.00	2,592	384	544.52	2,592	923
544.01	2,592	394	544.53	2,592	933
544.02	2,592	404	544.54	2,592	943
544.03	2,592	415	544.55	2,592	954
544.04	2,592	425	544.56	2,592	964
544.05	2,592	435	544.57	2,592	975
544.06	2,592	446	544.58	2,592	985
544.07	2,592	456	544.59	2,592	995
544.08	2,592	467	544.60	2,592	1,006
544.09	2,592	477	544.61	2,592	1,016
544.10	2,592	487	544.62	2,592	1,026
544.11	2,592	498	544.63	2,592	1,037
544.12	2,592	508	544.64	2,592	1,047
544.13	2,592	518	544.65	2,592	1,058
544.14	2,592	529	544.66	2,592	1,068

**Stage-Area-Storage for Pond PV-11: Pervious Pavers 11 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.67	2,592	1,078	545.19	2,592	1,617
544.68	2,592	1,089	545.20	2,592	1,628
544.69	2,592	1,099	545.21	2,592	1,638
544.70	2,592	1,109	545.22	2,592	1,649
544.71	2,592	1,120	545.23	2,592	1,659
544.72	2,592	1,130	545.24	2,592	1,669
544.73	2,592	1,140	545.25	2,592	1,680
544.74	2,592	1,151	545.26	2,592	1,690
544.75	2,592	1,161	545.27	2,592	1,700
544.76	2,592	1,172	545.28	2,592	1,711
544.77	2,592	1,182	545.29	2,592	1,721
544.78	2,592	1,192	545.30	2,592	1,731
544.79	2,592	1,203	545.31	2,592	1,742
544.80	2,592	1,213	545.32	2,592	1,752
544.81	2,592	1,223	545.33	2,592	1,763
544.82	2,592	1,234	545.34	2,592	1,773
544.83	2,592	1,244	545.35	2,592	1,783
544.84	2,592	1,255	545.36	2,592	1,794
544.85	2,592	1,265	545.37	2,592	1,804
544.86	2,592	1,275	545.38	2,592	1,814
544.87	2,592	1,286	545.39	2,592	1,825
544.88	2,592	1,296	545.40	2,592	1,835
544.89	2,592	1,306	545.41	2,592	1,846
544.90	2,592	1,317	545.42	2,592	1,856
544.91	2,592	1,327	545.43	2,592	1,866
544.92	2,592	1,337	545.44	2,592	1,877
544.93	2,592	1,348	545.45	2,592	1,887
544.94	2,592	1,358	545.46	2,592	1,897
544.95	2,592	1,369	545.47	2,592	1,908
544.96	2,592	1,379	545.48	2,592	1,918
544.97	2,592	1,389	545.49	2,592	1,928
544.98	2,592	1,400	545.50	2,592	1,939
544.99	2,592	1,410	545.51	2,592	1,949
545.00	2,592	1,420	545.52	2,592	1,960
545.01	2,592	1,431	545.53	2,592	1,970
545.02	2,592	1,441	545.54	2,592	1,980
545.03	2,592	1,452	545.55	2,592	1,991
545.04	2,592	1,462	545.56	2,592	2,001
545.05	2,592	1,472	545.57	2,592	2,011
545.06	2,592	1,483	545.58	2,592	2,022
545.07	2,592	1,493	545.59	2,592	2,032
545.08	2,592	1,503	545.60	2,592	2,042
545.09	2,592	1,514	545.61	2,592	2,053
545.10	2,592	1,524	545.62	2,592	2,063
545.11	2,592	1,534	545.63	2,592	2,074
545.12	2,592	1,545	545.64	2,592	2,084
545.13	2,592	1,555	545.65	2,592	2,094
545.14	2,592	1,566	545.66	2,592	2,105
545.15	2,592	1,576	545.67	2,592	2,115
545.16	2,592	1,586	545.68	2,592	2,125
545.17	2,592	1,597	545.69	2,592	2,136
545.18	2,592	1,607	545.70	2,592	2,146

**Stage-Area-Storage for Pond PV-11: Pervious Pavers 11 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
545.71	2,592	2,157
545.72	2,592	2,167
545.73	2,592	2,177
545.74	2,592	2,188
545.75	2,592	2,198
545.76	2,592	2,208
545.77	2,592	2,219
545.78	2,592	2,229
545.79	2,592	2,239
545.80	2,592	2,250
545.81	2,592	2,260
545.82	2,592	2,271
545.83	2,592	2,281
545.84	2,592	2,291
545.85	2,592	2,302
545.86	2,592	2,312
545.87	2,592	2,322
545.88	2,592	2,333
545.89	2,592	2,343
545.90	2,592	2,354
545.91	2,592	2,364
545.92	2,592	2,374
545.93	2,592	2,385
545.94	2,592	2,395
545.95	2,592	2,405
545.96	2,592	2,416
545.97	2,592	2,426
545.98	2,592	2,436
545.99	2,592	2,447
546.00	2,592	2,457
546.01	2,592	2,468
546.02	2,592	2,478
546.03	2,592	2,488
546.04	2,592	2,499
546.05	2,592	2,509
546.06	2,592	2,519
546.07	2,592	2,530
546.08	2,592	2,540
546.09	2,592	2,551
546.10	2,592	2,561
546.11	2,592	2,571
546.12	2,592	2,582
546.13	2,592	<b>2,592</b>

**Summary for Pond PV-7: Pervious Pavers 7**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,963 sf, 54.92% Impervious, Inflow Depth = 7.35" for 100-Year event  
 Inflow = 1.31 cfs @ 12.11 hrs, Volume= 4,267 cf  
 Outflow = 0.42 cfs @ 12.25 hrs, Volume= 4,267 cf, Atten= 68%, Lag= 8.5 min  
 Primary = 0.42 cfs @ 12.25 hrs, Volume= 4,267 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.05' @ 12.25 hrs Surf.Area= 2,430 sf Storage= 1,502 cf

Plug-Flow detention time= 140.8 min calculated for 4,266 cf (100% of inflow)  
 Center-of-Mass det. time= 141.0 min ( 902.3 - 761.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	542.50'	1,633 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 4,082 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
542.50	2,430	0	0
544.18	2,430	4,082	4,082

Device	Routing	Invert	Outlet Devices
#1	Primary	540.98'	<b>6.0" Round Culvert</b> L= 2.0' Ke= 0.500 Inlet / Outlet Invert= 540.98' / 540.97' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	542.49'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.25'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.42 cfs @ 12.25 hrs HW=544.05' TW=0.00' (Dynamic Tailwater)

- ↑ **1=Culvert** (Passes 0.42 cfs of 1.59 cfs potential flow)
- ↑ **2=Low Flow Orifice** (Orifice Controls 0.08 cfs @ 2.32 fps)
- ↑ **3=Control Orifice** (Orifice Controls 0.34 cfs @ 1.52 fps)

**Hydrograph for Pond PV-7: Pervious Pavers 7**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	542.50	0.00
0.20	0.00	0	542.50	0.00
0.40	0.00	0	542.50	0.00
0.60	0.00	0	542.50	0.00
0.80	0.00	1	542.50	0.00
1.00	0.00	3	542.50	0.00
1.20	0.00	5	542.51	0.00
1.40	0.00	8	542.51	0.00
1.60	0.01	12	542.51	0.00
1.80	0.01	15	542.52	0.00
2.00	0.01	19	542.52	0.00
2.20	0.01	24	542.52	0.00
2.40	0.01	28	542.53	0.00
2.60	0.01	33	542.53	0.00
2.80	0.01	37	542.54	0.00
3.00	0.01	42	542.54	0.00
3.20	0.01	46	542.55	0.00
3.40	0.01	51	542.55	0.00
3.60	0.01	55	542.56	0.00
3.80	0.01	60	542.56	0.00
4.00	0.01	64	542.57	0.00
4.20	0.01	69	542.57	0.00
4.40	0.01	73	542.58	0.01
4.60	0.01	78	542.58	0.01
4.80	0.01	82	542.58	0.01
5.00	0.01	86	542.59	0.01
5.20	0.01	91	542.59	0.01
5.40	0.01	95	542.60	0.01
5.60	0.01	99	542.60	0.01
5.80	0.01	103	542.61	0.01
6.00	0.02	107	542.61	0.01
6.20	0.02	111	542.61	0.01
6.40	0.02	116	542.62	0.01
6.60	0.02	120	542.62	0.01
6.80	0.02	125	542.63	0.01
7.00	0.02	130	542.63	0.01
7.20	0.02	136	542.64	0.01
7.40	0.02	142	542.65	0.01
7.60	0.02	148	542.65	0.02
7.80	0.03	154	542.66	0.02
8.00	0.03	160	542.66	0.02
8.20	0.03	167	542.67	0.02
8.40	0.03	173	542.68	0.02
8.60	0.03	181	542.69	0.02
8.80	0.03	188	542.69	0.02
9.00	0.03	196	542.70	0.02
9.20	0.04	205	542.71	0.02
9.40	0.04	216	542.72	0.02
9.60	0.04	229	542.74	0.02
9.80	0.05	244	542.75	0.03
10.00	0.05	260	542.77	0.03
10.20	0.06	279	542.79	0.03

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.06	300	542.81	0.03
10.60	0.07	323	542.83	0.03
10.80	0.08	354	542.86	0.03
11.00	0.10	393	542.90	0.04
11.20	0.12	445	542.96	0.04
11.40	0.15	513	543.03	0.04
11.60	0.22	604	543.12	0.05
11.80	0.32	748	543.27	0.06
12.00	<b>0.76</b>	1,022	543.55	0.21
12.20	<b>0.54</b>	<b>1,491</b>	<b>544.03</b>	<b>0.41</b>
12.40	0.25	<b>1,455</b>	<b>544.00</b>	<b>0.40</b>
12.60	0.18	1,341	543.88	0.36
12.80	0.15	1,214	543.75	0.31
13.00	0.12	1,105	543.64	0.26
13.20	0.10	1,018	543.55	0.20
13.40	0.09	957	543.48	0.16
13.60	0.07	911	543.44	0.13
13.80	0.07	876	543.40	0.11
14.00	0.06	850	543.37	0.10
14.20	0.06	829	543.35	0.09
14.40	0.06	812	543.33	0.08
14.60	0.05	796	543.32	0.07
14.80	0.05	782	543.30	0.07
15.00	0.04	768	543.29	0.06
15.20	0.04	755	543.28	0.06
15.40	0.04	743	543.26	0.06
15.60	0.04	731	543.25	0.05
15.80	0.04	720	543.24	0.05
16.00	0.04	708	543.23	0.05
16.20	0.03	696	543.22	0.05
16.40	0.03	683	543.20	0.05
16.60	0.03	670	543.19	0.05
16.80	0.03	656	543.17	0.05
17.00	0.03	642	543.16	0.05
17.20	0.03	627	543.15	0.05
17.40	0.03	613	543.13	0.05
17.60	0.03	597	543.11	0.05
17.80	0.02	582	543.10	0.05
18.00	0.02	566	543.08	0.05
18.20	0.02	550	543.07	0.05
18.40	0.02	534	543.05	0.04
18.60	0.02	519	543.03	0.04
18.80	0.02	504	543.02	0.04
19.00	0.02	489	543.00	0.04
19.20	0.02	475	542.99	0.04
19.40	0.02	461	542.97	0.04
19.60	0.02	447	542.96	0.04
19.80	0.02	434	542.95	0.04
20.00	0.02	421	542.93	0.04
20.20	0.02	408	542.92	0.04
20.40	0.02	396	542.91	0.04
20.60	0.02	384	542.89	0.04

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	372	542.88	0.04
21.00	0.02	360	542.87	0.03
21.20	0.02	349	542.86	0.03
21.40	0.02	339	542.85	0.03
21.60	0.02	328	542.84	0.03
21.80	0.02	318	542.83	0.03
22.00	0.02	308	542.82	0.03
22.20	0.02	298	542.81	0.03
22.40	0.02	289	542.80	0.03
22.60	0.02	280	542.79	0.03
22.80	0.02	271	542.78	0.03
23.00	0.02	263	542.77	0.03
23.20	0.02	254	542.76	0.03
23.40	0.02	247	542.75	0.03
23.60	0.02	239	542.75	0.03
23.80	0.01	231	542.74	0.02
24.00	0.01	224	542.73	0.02
24.20	0.00	210	542.72	0.02
24.40	0.00	194	542.70	0.02
24.60	0.00	179	542.68	0.02
24.80	0.00	166	542.67	0.02
25.00	0.00	153	542.66	0.02
25.20	0.00	142	542.65	0.01
25.40	0.00	132	542.64	0.01
25.60	0.00	123	542.63	0.01
25.80	0.00	115	542.62	0.01
26.00	0.00	107	542.61	0.01
26.20	0.00	101	542.60	0.01
26.40	0.00	95	542.60	0.01
26.60	0.00	89	542.59	0.01
26.80	0.00	84	542.59	0.01
27.00	0.00	80	542.58	0.01
27.20	0.00	76	542.58	0.01
27.40	0.00	72	542.57	0.01
27.60	0.00	68	542.57	0.00
27.80	0.00	65	542.57	0.00
28.00	0.00	62	542.56	0.00
28.20	0.00	59	542.56	0.00
28.40	0.00	57	542.56	0.00
28.60	0.00	54	542.56	0.00
28.80	0.00	52	542.55	0.00
29.00	0.00	50	542.55	0.00
29.20	0.00	48	542.55	0.00
29.40	0.00	46	542.55	0.00
29.60	0.00	44	542.55	0.00
29.80	0.00	43	542.54	0.00
30.00	0.00	41	542.54	0.00
30.20	0.00	40	542.54	0.00
30.40	0.00	38	542.54	0.00
30.60	0.00	37	542.54	0.00
30.80	0.00	36	542.54	0.00
31.00	0.00	35	542.54	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	33	542.53	0.00
31.40	0.00	32	542.53	0.00
31.60	0.00	31	542.53	0.00
31.80	0.00	30	542.53	0.00
32.00	0.00	29	542.53	0.00
32.20	0.00	29	542.53	0.00
32.40	0.00	28	542.53	0.00
32.60	0.00	27	542.53	0.00
32.80	0.00	26	542.53	0.00
33.00	0.00	25	542.53	0.00
33.20	0.00	25	542.53	0.00
33.40	0.00	24	542.52	0.00
33.60	0.00	23	542.52	0.00
33.80	0.00	23	542.52	0.00
34.00	0.00	22	542.52	0.00
34.20	0.00	21	542.52	0.00
34.40	0.00	21	542.52	0.00
34.60	0.00	20	542.52	0.00
34.80	0.00	20	542.52	0.00
35.00	0.00	19	542.52	0.00
35.20	0.00	19	542.52	0.00
35.40	0.00	18	542.52	0.00
35.60	0.00	18	542.52	0.00
35.80	0.00	17	542.52	0.00
36.00	0.00	17	542.52	0.00
36.20	0.00	17	542.52	0.00
36.40	0.00	16	542.52	0.00
36.60	0.00	16	542.52	0.00
36.80	0.00	15	542.52	0.00
37.00	0.00	15	542.52	0.00
37.20	0.00	15	542.51	0.00
37.40	0.00	14	542.51	0.00
37.60	0.00	14	542.51	0.00
37.80	0.00	14	542.51	0.00
38.00	0.00	13	542.51	0.00
38.20	0.00	13	542.51	0.00
38.40	0.00	13	542.51	0.00
38.60	0.00	12	542.51	0.00
38.80	0.00	12	542.51	0.00
39.00	0.00	12	542.51	0.00
39.20	0.00	11	542.51	0.00
39.40	0.00	11	542.51	0.00
39.60	0.00	11	542.51	0.00
39.80	0.00	11	542.51	0.00
40.00	0.00	10	542.51	0.00
40.20	0.00	10	542.51	0.00
40.40	0.00	10	542.51	0.00
40.60	0.00	10	542.51	0.00
40.80	0.00	9	542.51	0.00
41.00	0.00	9	542.51	0.00
41.20	0.00	9	542.51	0.00
41.40	0.00	9	542.51	0.00



**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	9	542.51	0.00
41.80	0.00	8	542.51	0.00
42.00	0.00	8	542.51	0.00
42.20	0.00	8	542.51	0.00
42.40	0.00	8	542.51	0.00
42.60	0.00	8	542.51	0.00
42.80	0.00	7	542.51	0.00
43.00	0.00	7	542.51	0.00
43.20	0.00	7	542.51	0.00
43.40	0.00	7	542.51	0.00
43.60	0.00	7	542.51	0.00
43.80	0.00	7	542.51	0.00
44.00	0.00	6	542.51	0.00
44.20	0.00	6	542.51	0.00
44.40	0.00	6	542.51	0.00
44.60	0.00	6	542.51	0.00
44.80	0.00	6	542.51	0.00
45.00	0.00	6	542.51	0.00
45.20	0.00	6	542.51	0.00
45.40	0.00	5	542.51	0.00
45.60	0.00	5	542.51	0.00
45.80	0.00	5	542.51	0.00
46.00	0.00	5	542.51	0.00
46.20	0.00	5	542.50	0.00
46.40	0.00	5	542.50	0.00
46.60	0.00	5	542.50	0.00
46.80	0.00	4	542.50	0.00
47.00	0.00	4	542.50	0.00
47.20	0.00	4	542.50	0.00
47.40	0.00	4	542.50	0.00
47.60	0.00	4	542.50	0.00
47.80	0.00	4	542.50	0.00
48.00	0.00	4	542.50	0.00
48.20	0.00	4	542.50	0.00
48.40	0.00	4	542.50	0.00
48.60	0.00	3	542.50	0.00
48.80	0.00	3	542.50	0.00
49.00	0.00	3	542.50	0.00
49.20	0.00	3	542.50	0.00
49.40	0.00	3	542.50	0.00
49.60	0.00	3	542.50	0.00
49.80	0.00	3	542.50	0.00
50.00	0.00	3	542.50	0.00
50.20	0.00	3	542.50	0.00
50.40	0.00	3	542.50	0.00
50.60	0.00	2	542.50	0.00
50.80	0.00	2	542.50	0.00
51.00	0.00	2	542.50	0.00
51.20	0.00	2	542.50	0.00
51.40	0.00	2	542.50	0.00
51.60	0.00	2	542.50	0.00
51.80	0.00	2	542.50	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	2	542.50	0.00
52.20	0.00	2	542.50	0.00
52.40	0.00	2	542.50	0.00
52.60	0.00	2	542.50	0.00
52.80	0.00	1	542.50	0.00
53.00	0.00	1	542.50	0.00
53.20	0.00	1	542.50	0.00
53.40	0.00	1	542.50	0.00
53.60	0.00	1	542.50	0.00
53.80	0.00	1	542.50	0.00
54.00	0.00	1	542.50	0.00
54.20	0.00	1	542.50	0.00
54.40	0.00	1	542.50	0.00
54.60	0.00	1	542.50	0.00
54.80	0.00	1	542.50	0.00
55.00	0.00	1	542.50	0.00
55.20	0.00	1	542.50	0.00
55.40	0.00	1	542.50	0.00
55.60	0.00	0	542.50	0.00
55.80	0.00	0	542.50	0.00
56.00	0.00	0	542.50	0.00
56.20	0.00	0	542.50	0.00
56.40	0.00	0	542.50	0.00
56.60	0.00	0	542.50	0.00
56.80	0.00	0	542.50	0.00
57.00	0.00	0	542.50	0.00
57.20	0.00	0	542.50	0.00
57.40	0.00	0	542.50	0.00
57.60	0.00	0	542.50	0.00
57.80	0.00	0	542.50	0.00
58.00	0.00	0	542.50	0.00
58.20	0.00	0	542.50	0.00
58.40	0.00	0	542.50	0.00
58.60	0.00	0	542.50	0.00
58.80	0.00	0	542.50	0.00
59.00	0.00	0	542.50	0.00
59.20	0.00	0	542.50	0.00
59.40	0.00	0	542.50	0.00
59.60	0.00	0	542.50	0.00
59.80	0.00	0	542.50	0.00
60.00	0.00	0	542.50	0.00
60.20	0.00	0	542.50	0.00
60.40	0.00	0	542.50	0.00
60.60	0.00	0	542.50	0.00
60.80	0.00	0	542.50	0.00
61.00	0.00	0	542.50	0.00
61.20	0.00	0	542.50	0.00
61.40	0.00	0	542.50	0.00
61.60	0.00	0	542.50	0.00
61.80	0.00	0	542.50	0.00
62.00	0.00	0	542.50	0.00
62.20	0.00	0	542.50	0.00

**Hydrograph for Pond PV-7: Pervious Pavers 7 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	542.50	0.00
62.60	0.00	0	542.50	0.00
62.80	0.00	0	542.50	0.00
63.00	0.00	0	542.50	0.00
63.20	0.00	0	542.50	0.00
63.40	0.00	0	542.50	0.00
63.60	0.00	0	542.50	0.00
63.80	0.00	0	542.50	0.00
64.00	0.00	0	542.50	0.00
64.20	0.00	0	542.50	0.00
64.40	0.00	0	542.50	0.00
64.60	0.00	0	542.50	0.00
64.80	0.00	0	542.50	0.00
65.00	0.00	0	542.50	0.00
65.20	0.00	0	542.50	0.00
65.40	0.00	0	542.50	0.00
65.60	0.00	0	542.50	0.00
65.80	0.00	0	542.50	0.00
66.00	0.00	0	542.50	0.00
66.20	0.00	0	542.50	0.00
66.40	0.00	0	542.50	0.00
66.60	0.00	0	542.50	0.00
66.80	0.00	0	542.50	0.00
67.00	0.00	0	542.50	0.00
67.20	0.00	0	542.50	0.00
67.40	0.00	0	542.50	0.00
67.60	0.00	0	542.50	0.00
67.80	0.00	0	542.50	0.00
68.00	0.00	0	542.50	0.00
68.20	0.00	0	542.50	0.00
68.40	0.00	0	542.50	0.00
68.60	0.00	0	542.50	0.00
68.80	0.00	0	542.50	0.00
69.00	0.00	0	542.50	0.00
69.20	0.00	0	542.50	0.00
69.40	0.00	0	542.50	0.00
69.60	0.00	0	542.50	0.00
69.80	0.00	0	542.50	0.00
70.00	0.00	0	542.50	0.00
70.20	0.00	0	542.50	0.00
70.40	0.00	0	542.50	0.00
70.60	0.00	0	542.50	0.00
70.80	0.00	0	542.50	0.00
71.00	0.00	0	542.50	0.00
71.20	0.00	0	542.50	0.00
71.40	0.00	0	542.50	0.00
71.60	0.00	0	542.50	0.00
71.80	0.00	0	542.50	0.00
72.00	0.00	0	542.50	0.00

**Stage-Area-Storage for Pond PV-7: Pervious Pavers 7**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
542.50	2,430	0	543.02	2,430	505
542.51	2,430	10	543.03	2,430	515
542.52	2,430	19	543.04	2,430	525
542.53	2,430	29	543.05	2,430	535
542.54	2,430	39	543.06	2,430	544
542.55	2,430	49	543.07	2,430	554
542.56	2,430	58	543.08	2,430	564
542.57	2,430	68	543.09	2,430	573
542.58	2,430	78	543.10	2,430	583
542.59	2,430	87	543.11	2,430	593
542.60	2,430	97	543.12	2,430	603
542.61	2,430	107	543.13	2,430	612
542.62	2,430	117	543.14	2,430	622
542.63	2,430	126	543.15	2,430	632
542.64	2,430	136	543.16	2,430	642
542.65	2,430	146	543.17	2,430	651
542.66	2,430	156	543.18	2,430	661
542.67	2,430	165	543.19	2,430	671
542.68	2,430	175	543.20	2,430	680
542.69	2,430	185	543.21	2,430	690
542.70	2,430	194	543.22	2,430	700
542.71	2,430	204	543.23	2,430	710
542.72	2,430	214	543.24	2,430	719
542.73	2,430	224	543.25	2,430	729
542.74	2,430	233	543.26	2,430	739
542.75	2,430	243	543.27	2,430	748
542.76	2,430	253	543.28	2,430	758
542.77	2,430	262	543.29	2,430	768
542.78	2,430	272	543.30	2,430	778
542.79	2,430	282	543.31	2,430	787
542.80	2,430	292	543.32	2,430	797
542.81	2,430	301	543.33	2,430	807
542.82	2,430	311	543.34	2,430	816
542.83	2,430	321	543.35	2,430	826
542.84	2,430	330	543.36	2,430	836
542.85	2,430	340	543.37	2,430	846
542.86	2,430	350	543.38	2,430	855
542.87	2,430	360	543.39	2,430	865
542.88	2,430	369	543.40	2,430	875
542.89	2,430	379	543.41	2,430	885
542.90	2,430	389	543.42	2,430	894
542.91	2,430	399	543.43	2,430	904
542.92	2,430	408	543.44	2,430	914
542.93	2,430	418	543.45	2,430	923
542.94	2,430	428	543.46	2,430	933
542.95	2,430	437	543.47	2,430	943
542.96	2,430	447	543.48	2,430	953
542.97	2,430	457	543.49	2,430	962
542.98	2,430	467	543.50	2,430	972
542.99	2,430	476	543.51	2,430	982
543.00	2,430	486	543.52	2,430	991
543.01	2,430	496	543.53	2,430	1,001

**Stage-Area-Storage for Pond PV-7: Pervious Pavers 7 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.54	2,430	1,011	544.06	2,430	1,516
543.55	2,430	1,021	544.07	2,430	1,526
543.56	2,430	1,030	544.08	2,430	1,536
543.57	2,430	1,040	544.09	2,430	1,545
543.58	2,430	1,050	544.10	2,430	1,555
543.59	2,430	1,059	544.11	2,430	1,565
543.60	2,430	1,069	544.12	2,430	1,575
543.61	2,430	1,079	544.13	2,430	1,584
543.62	2,430	1,089	544.14	2,430	1,594
543.63	2,430	1,098	544.15	2,430	1,604
543.64	2,430	1,108	544.16	2,430	1,614
543.65	2,430	1,118	544.17	2,430	1,623
543.66	2,430	1,128	544.18	2,430	<b>1,633</b>
543.67	2,430	1,137			
543.68	2,430	1,147			
543.69	2,430	1,157			
543.70	2,430	1,166			
543.71	2,430	1,176			
543.72	2,430	1,186			
543.73	2,430	1,196			
543.74	2,430	1,205			
543.75	2,430	1,215			
543.76	2,430	1,225			
543.77	2,430	1,234			
543.78	2,430	1,244			
543.79	2,430	1,254			
543.80	2,430	1,264			
543.81	2,430	1,273			
543.82	2,430	1,283			
543.83	2,430	1,293			
543.84	2,430	1,302			
543.85	2,430	1,312			
543.86	2,430	1,322			
543.87	2,430	1,332			
543.88	2,430	1,341			
543.89	2,430	1,351			
543.90	2,430	1,361			
543.91	2,430	1,371			
543.92	2,430	1,380			
543.93	2,430	1,390			
543.94	2,430	1,400			
543.95	2,430	1,409			
543.96	2,430	1,419			
543.97	2,430	1,429			
543.98	2,430	1,439			
543.99	2,430	1,448			
544.00	2,430	1,458			
544.01	2,430	1,468			
544.02	2,430	1,477			
544.03	2,430	1,487			
544.04	2,430	1,497			
544.05	2,430	1,507			

**Summary for Pond PV-8: Pervious Pavers 8**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 6,540 sf, 28.15% Impervious, Inflow Depth = 6.90" for 100-Year event  
 Inflow = 1.23 cfs @ 12.10 hrs, Volume= 3,763 cf  
 Outflow = 0.33 cfs @ 12.24 hrs, Volume= 3,763 cf, Atten= 73%, Lag= 8.8 min  
 Primary = 0.33 cfs @ 12.24 hrs, Volume= 3,763 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.56' @ 12.24 hrs Surf.Area= 3,564 sf Storage= 1,454 cf

Plug-Flow detention time= 179.7 min calculated for 3,763 cf (100% of inflow)  
 Center-of-Mass det. time= 179.7 min ( 954.8 - 775.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.54'	1,483 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 3,707 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.54	3,564	0	0
544.58	3,564	3,707	3,707

Device	Routing	Invert	Outlet Devices
#1	Primary	541.28'	<b>6.0" Round Culvert</b> L= 15.0' Ke= 0.500 Inlet / Outlet Invert= 541.28' / 541.20' S= 0.0053 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.53'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.99'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.33 cfs @ 12.24 hrs HW=544.56' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.33 cfs of 1.65 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.06 cfs @ 1.85 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.27 cfs @ 1.21 fps)

**Hydrograph for Pond PV-8: Pervious Pavers 8**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.54	0.00
0.20	0.00	0	543.54	0.00
0.40	0.00	0	543.54	0.00
0.60	0.00	0	543.54	0.00
0.80	0.00	1	543.54	0.00
1.00	0.00	1	543.54	0.00
1.20	0.00	3	543.54	0.00
1.40	0.00	4	543.54	0.00
1.60	0.00	6	543.54	0.00
1.80	0.00	8	543.55	0.00
2.00	0.00	10	543.55	0.00
2.20	0.00	12	543.55	0.00
2.40	0.00	14	543.55	0.00
2.60	0.00	17	543.55	0.00
2.80	0.00	19	543.55	0.00
3.00	0.00	22	543.56	0.00
3.20	0.00	24	543.56	0.00
3.40	0.00	27	543.56	0.00
3.60	0.00	30	543.56	0.00
3.80	0.01	33	543.56	0.00
4.00	0.01	36	543.57	0.00
4.20	0.01	39	543.57	0.00
4.40	0.01	43	543.57	0.00
4.60	0.01	47	543.57	0.00
4.80	0.01	51	543.58	0.00
5.00	0.01	55	543.58	0.00
5.20	0.01	60	543.58	0.00
5.40	0.01	64	543.59	0.00
5.60	0.01	69	543.59	0.00
5.80	0.01	74	543.59	0.00
6.00	0.01	79	543.60	0.00
6.20	0.01	84	543.60	0.00
6.40	0.01	90	543.60	0.00
6.60	0.01	96	543.61	0.00
6.80	0.01	102	543.61	0.00
7.00	0.01	109	543.62	0.01
7.20	0.02	116	543.62	0.01
7.40	0.02	123	543.63	0.01
7.60	0.02	131	543.63	0.01
7.80	0.02	139	543.64	0.01
8.00	0.02	147	543.64	0.01
8.20	0.02	156	543.65	0.01
8.40	0.02	165	543.66	0.01
8.60	0.02	174	543.66	0.01
8.80	0.02	183	543.67	0.01
9.00	0.03	192	543.67	0.01
9.20	0.03	203	543.68	0.01
9.40	0.03	215	543.69	0.02
9.60	0.04	228	543.70	0.02
9.80	0.04	243	543.71	0.02
10.00	0.04	260	543.72	0.02
10.20	0.05	278	543.73	0.02

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.05	298	543.75	0.02
10.60	0.06	321	543.77	0.02
10.80	0.07	351	543.79	0.03
11.00	0.08	389	543.81	0.03
11.20	0.11	439	543.85	0.03
11.40	0.13	504	543.89	0.03
11.60	0.20	593	543.96	0.04
11.80	0.29	731	544.05	0.06
12.00	<b>0.72</b>	1,017	544.25	0.17
12.20	<b>0.43</b>	<b>1,445</b>	<b>544.55</b>	<b>0.33</b>
12.40	0.23	<b>1,424</b>	<b>544.54</b>	<b>0.32</b>
12.60	0.16	1,341	544.48	0.30
12.80	0.14	1,242	544.41	0.27
13.00	0.11	1,149	544.35	0.23
13.20	0.09	1,067	544.29	0.19
13.40	0.08	1,003	544.24	0.16
13.60	0.07	948	544.21	0.14
13.80	0.06	904	544.17	0.12
14.00	0.06	869	544.15	0.10
14.20	0.05	841	544.13	0.09
14.40	0.05	816	544.11	0.08
14.60	0.05	795	544.10	0.07
14.80	0.04	776	544.08	0.07
15.00	0.04	758	544.07	0.06
15.20	0.04	741	544.06	0.06
15.40	0.04	727	544.05	0.05
15.60	0.03	714	544.04	0.05
15.80	0.03	702	544.03	0.05
16.00	0.03	692	544.03	0.05
16.20	0.03	682	544.02	0.04
16.40	0.03	673	544.01	0.04
16.60	0.03	664	544.01	0.04
16.80	0.03	655	544.00	0.04
17.00	0.03	646	543.99	0.04
17.20	0.03	637	543.99	0.04
17.40	0.03	628	543.98	0.04
17.60	0.02	618	543.97	0.04
17.80	0.02	608	543.97	0.04
18.00	0.02	597	543.96	0.04
18.20	0.02	585	543.95	0.04
18.40	0.02	574	543.94	0.04
18.60	0.02	563	543.94	0.04
18.80	0.02	552	543.93	0.04
19.00	0.02	541	543.92	0.04
19.20	0.02	531	543.91	0.03
19.40	0.02	520	543.90	0.03
19.60	0.02	510	543.90	0.03
19.80	0.02	500	543.89	0.03
20.00	0.02	490	543.88	0.03
20.20	0.02	480	543.88	0.03
20.40	0.02	470	543.87	0.03
20.60	0.02	460	543.86	0.03



**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	451	543.86	0.03
21.00	0.02	441	543.85	0.03
21.20	0.02	432	543.84	0.03
21.40	0.02	423	543.84	0.03
21.60	0.02	414	543.83	0.03
21.80	0.02	405	543.82	0.03
22.00	0.02	396	543.82	0.03
22.20	0.02	388	543.81	0.03
22.40	0.02	379	543.81	0.03
22.60	0.02	371	543.80	0.03
22.80	0.02	363	543.79	0.03
23.00	0.01	355	543.79	0.03
23.20	0.01	347	543.78	0.03
23.40	0.01	339	543.78	0.02
23.60	0.01	332	543.77	0.02
23.80	0.01	324	543.77	0.02
24.00	0.01	317	543.76	0.02
24.20	0.00	302	543.75	0.02
24.40	0.00	286	543.74	0.02
24.60	0.00	271	543.73	0.02
24.80	0.00	257	543.72	0.02
25.00	0.00	243	543.71	0.02
25.20	0.00	230	543.70	0.02
25.40	0.00	219	543.69	0.02
25.60	0.00	208	543.69	0.01
25.80	0.00	197	543.68	0.01
26.00	0.00	188	543.67	0.01
26.20	0.00	179	543.67	0.01
26.40	0.00	171	543.66	0.01
26.60	0.00	163	543.65	0.01
26.80	0.00	156	543.65	0.01
27.00	0.00	150	543.64	0.01
27.20	0.00	143	543.64	0.01
27.40	0.00	138	543.64	0.01
27.60	0.00	132	543.63	0.01
27.80	0.00	127	543.63	0.01
28.00	0.00	122	543.63	0.01
28.20	0.00	118	543.62	0.01
28.40	0.00	114	543.62	0.01
28.60	0.00	110	543.62	0.01
28.80	0.00	106	543.61	0.01
29.00	0.00	102	543.61	0.00
29.20	0.00	99	543.61	0.00
29.40	0.00	96	543.61	0.00
29.60	0.00	93	543.60	0.00
29.80	0.00	90	543.60	0.00
30.00	0.00	87	543.60	0.00
30.20	0.00	84	543.60	0.00
30.40	0.00	82	543.60	0.00
30.60	0.00	79	543.60	0.00
30.80	0.00	77	543.59	0.00
31.00	0.00	75	543.59	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	73	543.59	0.00
31.40	0.00	71	543.59	0.00
31.60	0.00	69	543.59	0.00
31.80	0.00	67	543.59	0.00
32.00	0.00	66	543.59	0.00
32.20	0.00	64	543.58	0.00
32.40	0.00	62	543.58	0.00
32.60	0.00	61	543.58	0.00
32.80	0.00	59	543.58	0.00
33.00	0.00	58	543.58	0.00
33.20	0.00	56	543.58	0.00
33.40	0.00	55	543.58	0.00
33.60	0.00	54	543.58	0.00
33.80	0.00	53	543.58	0.00
34.00	0.00	51	543.58	0.00
34.20	0.00	50	543.58	0.00
34.40	0.00	49	543.57	0.00
34.60	0.00	48	543.57	0.00
34.80	0.00	47	543.57	0.00
35.00	0.00	46	543.57	0.00
35.20	0.00	45	543.57	0.00
35.40	0.00	44	543.57	0.00
35.60	0.00	43	543.57	0.00
35.80	0.00	42	543.57	0.00
36.00	0.00	41	543.57	0.00
36.20	0.00	40	543.57	0.00
36.40	0.00	40	543.57	0.00
36.60	0.00	39	543.57	0.00
36.80	0.00	38	543.57	0.00
37.00	0.00	37	543.57	0.00
37.20	0.00	37	543.57	0.00
37.40	0.00	36	543.57	0.00
37.60	0.00	35	543.56	0.00
37.80	0.00	35	543.56	0.00
38.00	0.00	34	543.56	0.00
38.20	0.00	33	543.56	0.00
38.40	0.00	33	543.56	0.00
38.60	0.00	32	543.56	0.00
38.80	0.00	31	543.56	0.00
39.00	0.00	31	543.56	0.00
39.20	0.00	30	543.56	0.00
39.40	0.00	30	543.56	0.00
39.60	0.00	29	543.56	0.00
39.80	0.00	29	543.56	0.00
40.00	0.00	28	543.56	0.00
40.20	0.00	28	543.56	0.00
40.40	0.00	27	543.56	0.00
40.60	0.00	27	543.56	0.00
40.80	0.00	26	543.56	0.00
41.00	0.00	26	543.56	0.00
41.20	0.00	25	543.56	0.00
41.40	0.00	25	543.56	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	24	543.56	0.00
41.80	0.00	24	543.56	0.00
42.00	0.00	24	543.56	0.00
42.20	0.00	23	543.56	0.00
42.40	0.00	23	543.56	0.00
42.60	0.00	22	543.56	0.00
42.80	0.00	22	543.56	0.00
43.00	0.00	22	543.56	0.00
43.20	0.00	21	543.55	0.00
43.40	0.00	21	543.55	0.00
43.60	0.00	21	543.55	0.00
43.80	0.00	20	543.55	0.00
44.00	0.00	20	543.55	0.00
44.20	0.00	20	543.55	0.00
44.40	0.00	19	543.55	0.00
44.60	0.00	19	543.55	0.00
44.80	0.00	19	543.55	0.00
45.00	0.00	18	543.55	0.00
45.20	0.00	18	543.55	0.00
45.40	0.00	18	543.55	0.00
45.60	0.00	18	543.55	0.00
45.80	0.00	17	543.55	0.00
46.00	0.00	17	543.55	0.00
46.20	0.00	17	543.55	0.00
46.40	0.00	16	543.55	0.00
46.60	0.00	16	543.55	0.00
46.80	0.00	16	543.55	0.00
47.00	0.00	16	543.55	0.00
47.20	0.00	15	543.55	0.00
47.40	0.00	15	543.55	0.00
47.60	0.00	15	543.55	0.00
47.80	0.00	15	543.55	0.00
48.00	0.00	14	543.55	0.00
48.20	0.00	14	543.55	0.00
48.40	0.00	14	543.55	0.00
48.60	0.00	14	543.55	0.00
48.80	0.00	13	543.55	0.00
49.00	0.00	13	543.55	0.00
49.20	0.00	13	543.55	0.00
49.40	0.00	13	543.55	0.00
49.60	0.00	13	543.55	0.00
49.80	0.00	12	543.55	0.00
50.00	0.00	12	543.55	0.00
50.20	0.00	12	543.55	0.00
50.40	0.00	12	543.55	0.00
50.60	0.00	12	543.55	0.00
50.80	0.00	11	543.55	0.00
51.00	0.00	11	543.55	0.00
51.20	0.00	11	543.55	0.00
51.40	0.00	11	543.55	0.00
51.60	0.00	11	543.55	0.00
51.80	0.00	11	543.55	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	10	543.55	0.00
52.20	0.00	10	543.55	0.00
52.40	0.00	10	543.55	0.00
52.60	0.00	10	543.55	0.00
52.80	0.00	10	543.55	0.00
53.00	0.00	10	543.55	0.00
53.20	0.00	9	543.55	0.00
53.40	0.00	9	543.55	0.00
53.60	0.00	9	543.55	0.00
53.80	0.00	9	543.55	0.00
54.00	0.00	9	543.55	0.00
54.20	0.00	9	543.55	0.00
54.40	0.00	8	543.55	0.00
54.60	0.00	8	543.55	0.00
54.80	0.00	8	543.55	0.00
55.00	0.00	8	543.55	0.00
55.20	0.00	8	543.55	0.00
55.40	0.00	8	543.55	0.00
55.60	0.00	8	543.55	0.00
55.80	0.00	7	543.55	0.00
56.00	0.00	7	543.55	0.00
56.20	0.00	7	543.55	0.00
56.40	0.00	7	543.54	0.00
56.60	0.00	7	543.54	0.00
56.80	0.00	7	543.54	0.00
57.00	0.00	7	543.54	0.00
57.20	0.00	7	543.54	0.00
57.40	0.00	6	543.54	0.00
57.60	0.00	6	543.54	0.00
57.80	0.00	6	543.54	0.00
58.00	0.00	6	543.54	0.00
58.20	0.00	6	543.54	0.00
58.40	0.00	6	543.54	0.00
58.60	0.00	6	543.54	0.00
58.80	0.00	6	543.54	0.00
59.00	0.00	5	543.54	0.00
59.20	0.00	5	543.54	0.00
59.40	0.00	5	543.54	0.00
59.60	0.00	5	543.54	0.00
59.80	0.00	5	543.54	0.00
60.00	0.00	5	543.54	0.00
60.20	0.00	5	543.54	0.00
60.40	0.00	5	543.54	0.00
60.60	0.00	5	543.54	0.00
60.80	0.00	5	543.54	0.00
61.00	0.00	4	543.54	0.00
61.20	0.00	4	543.54	0.00
61.40	0.00	4	543.54	0.00
61.60	0.00	4	543.54	0.00
61.80	0.00	4	543.54	0.00
62.00	0.00	4	543.54	0.00
62.20	0.00	4	543.54	0.00

**Hydrograph for Pond PV-8: Pervious Pavers 8 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	4	543.54	0.00
62.60	0.00	4	543.54	0.00
62.80	0.00	4	543.54	0.00
63.00	0.00	3	543.54	0.00
63.20	0.00	3	543.54	0.00
63.40	0.00	3	543.54	0.00
63.60	0.00	3	543.54	0.00
63.80	0.00	3	543.54	0.00
64.00	0.00	3	543.54	0.00
64.20	0.00	3	543.54	0.00
64.40	0.00	3	543.54	0.00
64.60	0.00	3	543.54	0.00
64.80	0.00	3	543.54	0.00
65.00	0.00	3	543.54	0.00
65.20	0.00	3	543.54	0.00
65.40	0.00	2	543.54	0.00
65.60	0.00	2	543.54	0.00
65.80	0.00	2	543.54	0.00
66.00	0.00	2	543.54	0.00
66.20	0.00	2	543.54	0.00
66.40	0.00	2	543.54	0.00
66.60	0.00	2	543.54	0.00
66.80	0.00	2	543.54	0.00
67.00	0.00	2	543.54	0.00
67.20	0.00	2	543.54	0.00
67.40	0.00	2	543.54	0.00
67.60	0.00	2	543.54	0.00
67.80	0.00	2	543.54	0.00
68.00	0.00	1	543.54	0.00
68.20	0.00	1	543.54	0.00
68.40	0.00	1	543.54	0.00
68.60	0.00	1	543.54	0.00
68.80	0.00	1	543.54	0.00
69.00	0.00	1	543.54	0.00
69.20	0.00	1	543.54	0.00
69.40	0.00	1	543.54	0.00
69.60	0.00	1	543.54	0.00
69.80	0.00	1	543.54	0.00
70.00	0.00	1	543.54	0.00
70.20	0.00	1	543.54	0.00
70.40	0.00	1	543.54	0.00
70.60	0.00	1	543.54	0.00
70.80	0.00	1	543.54	0.00
71.00	0.00	0	543.54	0.00
71.20	0.00	0	543.54	0.00
71.40	0.00	0	543.54	0.00
71.60	0.00	0	543.54	0.00
71.80	0.00	0	543.54	0.00
72.00	0.00	0	543.54	0.00

**Stage-Area-Storage for Pond PV-8: Pervious Pavers 8**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.54	3,564	0	544.06	3,564	741
543.55	3,564	14	544.07	3,564	756
543.56	3,564	29	544.08	3,564	770
543.57	3,564	43	544.09	3,564	784
543.58	3,564	57	544.10	3,564	798
543.59	3,564	71	544.11	3,564	813
543.60	3,564	86	544.12	3,564	827
543.61	3,564	100	544.13	3,564	841
543.62	3,564	114	544.14	3,564	855
543.63	3,564	128	544.15	3,564	870
543.64	3,564	143	544.16	3,564	884
543.65	3,564	157	544.17	3,564	898
543.66	3,564	171	544.18	3,564	912
543.67	3,564	185	544.19	3,564	927
543.68	3,564	200	544.20	3,564	941
543.69	3,564	214	544.21	3,564	955
543.70	3,564	228	544.22	3,564	969
543.71	3,564	242	544.23	3,564	984
543.72	3,564	257	544.24	3,564	998
543.73	3,564	271	544.25	3,564	1,012
543.74	3,564	285	544.26	3,564	1,026
543.75	3,564	299	544.27	3,564	1,041
543.76	3,564	314	544.28	3,564	1,055
543.77	3,564	328	544.29	3,564	1,069
543.78	3,564	342	544.30	3,564	1,083
543.79	3,564	356	544.31	3,564	1,098
543.80	3,564	371	544.32	3,564	1,112
543.81	3,564	385	544.33	3,564	1,126
543.82	3,564	399	544.34	3,564	1,140
543.83	3,564	413	544.35	3,564	1,155
543.84	3,564	428	544.36	3,564	1,169
543.85	3,564	442	544.37	3,564	1,183
543.86	3,564	456	544.38	3,564	1,198
543.87	3,564	470	544.39	3,564	1,212
543.88	3,564	485	544.40	3,564	1,226
543.89	3,564	499	544.41	3,564	1,240
543.90	3,564	513	544.42	3,564	1,255
543.91	3,564	527	544.43	3,564	1,269
543.92	3,564	542	544.44	3,564	1,283
543.93	3,564	556	544.45	3,564	1,297
543.94	3,564	570	544.46	3,564	1,312
543.95	3,564	584	544.47	3,564	1,326
543.96	3,564	599	544.48	3,564	1,340
543.97	3,564	613	544.49	3,564	1,354
543.98	3,564	627	544.50	3,564	1,369
543.99	3,564	642	544.51	3,564	1,383
544.00	3,564	656	544.52	3,564	1,397
544.01	3,564	670	544.53	3,564	1,411
544.02	3,564	684	544.54	3,564	1,426
544.03	3,564	699	544.55	3,564	1,440
544.04	3,564	713	544.56	3,564	1,454
544.05	3,564	727	544.57	3,564	1,468

**Stage-Area-Storage for Pond PV-8: Pervious Pavers 8 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.58	3,564	<b>1,483</b>

**Summary for Pond PV-9: Pervious Pavers 9**

[44] Hint: Outlet device #2 is below defined storage

Inflow Area = 8,185 sf, 42.70% Impervious, Inflow Depth = 7.15" for 100-Year event  
 Inflow = 1.56 cfs @ 12.10 hrs, Volume= 4,876 cf  
 Outflow = 0.39 cfs @ 12.31 hrs, Volume= 4,876 cf, Atten= 75%, Lag= 12.4 min  
 Primary = 0.39 cfs @ 12.31 hrs, Volume= 4,876 cf  
 Routed to Link P-1C : Proposed Pavers 7-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs  
 Peak Elev= 544.47' @ 12.31 hrs Surf.Area= 3,564 sf Storage= 1,916 cf

Plug-Flow detention time= 183.8 min calculated for 4,875 cf (100% of inflow)  
 Center-of-Mass det. time= 184.0 min ( 950.5 - 766.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	543.13'	2,067 cf	<b>Stone Storage (Prismatic)</b> Listed below (Recalc) 5,168 cf Overall x 40.0% Voids

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
543.13	3,564	0	0
544.58	3,564	5,168	5,168

Device	Routing	Invert	Outlet Devices
#1	Primary	541.62'	<b>6.0" Round Culvert</b> L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 541.62' / 541.50' S= 0.0050 '/' Cc= 0.900 n= 0.011, Flow Area= 0.20 sf
#2	Device 1	543.11'	<b>2.5" Vert. Low Flow Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	543.75'	<b>8.0" W x 4.0" H Vert. Control Orifice X 0.40</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.39 cfs @ 12.31 hrs HW=544.47' TW=0.00' (Dynamic Tailwater)

- ↑ 1=Culvert (Passes 0.39 cfs of 1.47 cfs potential flow)
- ↑ 2=Low Flow Orifice (Orifice Controls 0.07 cfs @ 2.16 fps)
- ↑ 3=Control Orifice (Orifice Controls 0.32 cfs @ 1.43 fps)



**Hydrograph for Pond PV-9: Pervious Pavers 9**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0	543.13	0.00
0.20	0.00	0	543.13	0.00
0.40	0.00	0	543.13	0.00
0.60	0.00	0	543.13	0.00
0.80	0.00	1	543.13	0.00
1.00	0.00	2	543.13	0.00
1.20	0.00	5	543.13	0.00
1.40	0.00	7	543.14	0.00
1.60	0.00	10	543.14	0.00
1.80	0.01	13	543.14	0.00
2.00	0.01	17	543.14	0.00
2.20	0.01	21	543.14	0.00
2.40	0.01	25	543.15	0.00
2.60	0.01	29	543.15	0.00
2.80	0.01	33	543.15	0.00
3.00	0.01	38	543.16	0.00
3.20	0.01	42	543.16	0.00
3.40	0.01	47	543.16	0.00
3.60	0.01	51	543.17	0.00
3.80	0.01	56	543.17	0.00
4.00	0.01	61	543.17	0.00
4.20	0.01	66	543.18	0.00
4.40	0.01	71	543.18	0.00
4.60	0.01	77	543.18	0.00
4.80	0.01	82	543.19	0.00
5.00	0.01	88	543.19	0.00
5.20	0.01	94	543.20	0.01
5.40	0.01	99	543.20	0.01
5.60	0.01	105	543.20	0.01
5.80	0.01	111	543.21	0.01
6.00	0.02	117	543.21	0.01
6.20	0.02	123	543.22	0.01
6.40	0.02	130	543.22	0.01
6.60	0.02	137	543.23	0.01
6.80	0.02	145	543.23	0.01
7.00	0.02	152	543.24	0.01
7.20	0.02	161	543.24	0.01
7.40	0.02	169	543.25	0.01
7.60	0.03	178	543.25	0.01
7.80	0.03	187	543.26	0.01
8.00	0.03	197	543.27	0.02
8.20	0.03	207	543.28	0.02
8.40	0.03	217	543.28	0.02
8.60	0.03	228	543.29	0.02
8.80	0.03	239	543.30	0.02
9.00	0.04	250	543.31	0.02
9.20	0.04	263	543.31	0.02
9.40	0.04	278	543.33	0.02
9.60	0.05	296	543.34	0.02
9.80	0.05	316	543.35	0.02
10.00	0.06	338	543.37	0.03
10.20	0.06	363	543.38	0.03

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
10.40	0.07	390	543.40	0.03
10.60	0.08	422	543.43	0.03
10.80	0.09	462	543.45	0.03
11.00	0.11	514	543.49	0.03
11.20	0.14	580	543.54	0.04
11.40	0.17	666	543.60	0.04
11.60	0.25	784	543.68	0.04
11.80	0.37	966	543.81	0.06
12.00	<b>0.92</b>	1,337	544.07	0.21
12.20	<b>0.55</b>	<b>1,897</b>	<b>544.46</b>	<b>0.39</b>
12.40	0.29	<b>1,891</b>	<b>544.46</b>	<b>0.39</b>
12.60	0.20	1,801	544.39	0.37
12.80	0.17	1,683	544.31	0.34
13.00	0.14	1,565	544.23	0.30
13.20	0.12	1,452	544.15	0.26
13.40	0.10	1,354	544.08	0.22
13.60	0.08	1,274	544.02	0.18
13.80	0.08	1,213	543.98	0.15
14.00	0.07	1,166	543.95	0.13
14.20	0.07	1,128	543.92	0.12
14.40	0.06	1,097	543.90	0.10
14.60	0.06	1,070	543.88	0.09
14.80	0.05	1,046	543.86	0.09
15.00	0.05	1,024	543.85	0.08
15.20	0.05	1,004	543.83	0.07
15.40	0.05	987	543.82	0.07
15.60	0.04	972	543.81	0.06
15.80	0.04	958	543.80	0.06
16.00	0.04	946	543.79	0.06
16.20	0.04	934	543.79	0.06
16.40	0.04	923	543.78	0.05
16.60	0.04	913	543.77	0.05
16.80	0.04	903	543.76	0.05
17.00	0.03	892	543.76	0.05
17.20	0.03	882	543.75	0.05
17.40	0.03	871	543.74	0.05
17.60	0.03	859	543.73	0.05
17.80	0.03	846	543.72	0.05
18.00	0.03	833	543.71	0.05
18.20	0.03	819	543.70	0.05
18.40	0.03	806	543.70	0.05
18.60	0.03	792	543.69	0.05
18.80	0.03	778	543.68	0.04
19.00	0.03	765	543.67	0.04
19.20	0.03	751	543.66	0.04
19.40	0.02	738	543.65	0.04
19.60	0.02	725	543.64	0.04
19.80	0.02	712	543.63	0.04
20.00	0.02	699	543.62	0.04
20.20	0.02	686	543.61	0.04
20.40	0.02	673	543.60	0.04
20.60	0.02	660	543.59	0.04

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
20.80	0.02	647	543.58	0.04
21.00	0.02	635	543.58	0.04
21.20	0.02	622	543.57	0.04
21.40	0.02	610	543.56	0.04
21.60	0.02	598	543.55	0.04
21.80	0.02	585	543.54	0.04
22.00	0.02	573	543.53	0.04
22.20	0.02	561	543.52	0.04
22.40	0.02	550	543.52	0.04
22.60	0.02	538	543.51	0.04
22.80	0.02	526	543.50	0.04
23.00	0.02	515	543.49	0.03
23.20	0.02	503	543.48	0.03
23.40	0.02	492	543.48	0.03
23.60	0.02	481	543.47	0.03
23.80	0.02	470	543.46	0.03
24.00	0.02	459	543.45	0.03
24.20	0.00	438	543.44	0.03
24.40	0.00	416	543.42	0.03
24.60	0.00	395	543.41	0.03
24.80	0.00	375	543.39	0.03
25.00	0.00	355	543.38	0.03
25.20	0.00	336	543.37	0.03
25.40	0.00	318	543.35	0.02
25.60	0.00	301	543.34	0.02
25.80	0.00	284	543.33	0.02
26.00	0.00	269	543.32	0.02
26.20	0.00	254	543.31	0.02
26.40	0.00	240	543.30	0.02
26.60	0.00	226	543.29	0.02
26.80	0.00	214	543.28	0.02
27.00	0.00	202	543.27	0.02
27.20	0.00	191	543.26	0.01
27.40	0.00	181	543.26	0.01
27.60	0.00	172	543.25	0.01
27.80	0.00	163	543.24	0.01
28.00	0.00	155	543.24	0.01
28.20	0.00	148	543.23	0.01
28.40	0.00	141	543.23	0.01
28.60	0.00	134	543.22	0.01
28.80	0.00	128	543.22	0.01
29.00	0.00	122	543.22	0.01
29.20	0.00	117	543.21	0.01
29.40	0.00	112	543.21	0.01
29.60	0.00	107	543.21	0.01
29.80	0.00	103	543.20	0.01
30.00	0.00	99	543.20	0.01
30.20	0.00	95	543.20	0.01
30.40	0.00	91	543.19	0.01
30.60	0.00	87	543.19	0.00
30.80	0.00	84	543.19	0.00
31.00	0.00	81	543.19	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
31.20	0.00	78	543.18	0.00
31.40	0.00	75	543.18	0.00
31.60	0.00	72	543.18	0.00
31.80	0.00	70	543.18	0.00
32.00	0.00	67	543.18	0.00
32.20	0.00	65	543.18	0.00
32.40	0.00	63	543.17	0.00
32.60	0.00	60	543.17	0.00
32.80	0.00	58	543.17	0.00
33.00	0.00	56	543.17	0.00
33.20	0.00	54	543.17	0.00
33.40	0.00	53	543.17	0.00
33.60	0.00	51	543.17	0.00
33.80	0.00	49	543.16	0.00
34.00	0.00	48	543.16	0.00
34.20	0.00	46	543.16	0.00
34.40	0.00	45	543.16	0.00
34.60	0.00	43	543.16	0.00
34.80	0.00	42	543.16	0.00
35.00	0.00	41	543.16	0.00
35.20	0.00	39	543.16	0.00
35.40	0.00	38	543.16	0.00
35.60	0.00	37	543.16	0.00
35.80	0.00	36	543.16	0.00
36.00	0.00	35	543.15	0.00
36.20	0.00	34	543.15	0.00
36.40	0.00	32	543.15	0.00
36.60	0.00	31	543.15	0.00
36.80	0.00	30	543.15	0.00
37.00	0.00	30	543.15	0.00
37.20	0.00	29	543.15	0.00
37.40	0.00	28	543.15	0.00
37.60	0.00	27	543.15	0.00
37.80	0.00	26	543.15	0.00
38.00	0.00	25	543.15	0.00
38.20	0.00	24	543.15	0.00
38.40	0.00	24	543.15	0.00
38.60	0.00	23	543.15	0.00
38.80	0.00	22	543.15	0.00
39.00	0.00	22	543.15	0.00
39.20	0.00	21	543.14	0.00
39.40	0.00	20	543.14	0.00
39.60	0.00	19	543.14	0.00
39.80	0.00	19	543.14	0.00
40.00	0.00	18	543.14	0.00
40.20	0.00	18	543.14	0.00
40.40	0.00	17	543.14	0.00
40.60	0.00	16	543.14	0.00
40.80	0.00	16	543.14	0.00
41.00	0.00	15	543.14	0.00
41.20	0.00	15	543.14	0.00
41.40	0.00	14	543.14	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
41.60	0.00	14	543.14	0.00
41.80	0.00	13	543.14	0.00
42.00	0.00	13	543.14	0.00
42.20	0.00	12	543.14	0.00
42.40	0.00	12	543.14	0.00
42.60	0.00	11	543.14	0.00
42.80	0.00	11	543.14	0.00
43.00	0.00	11	543.14	0.00
43.20	0.00	10	543.14	0.00
43.40	0.00	10	543.14	0.00
43.60	0.00	9	543.14	0.00
43.80	0.00	9	543.14	0.00
44.00	0.00	9	543.14	0.00
44.20	0.00	8	543.14	0.00
44.40	0.00	8	543.14	0.00
44.60	0.00	7	543.14	0.00
44.80	0.00	7	543.13	0.00
45.00	0.00	7	543.13	0.00
45.20	0.00	6	543.13	0.00
45.40	0.00	6	543.13	0.00
45.60	0.00	6	543.13	0.00
45.80	0.00	5	543.13	0.00
46.00	0.00	5	543.13	0.00
46.20	0.00	5	543.13	0.00
46.40	0.00	4	543.13	0.00
46.60	0.00	4	543.13	0.00
46.80	0.00	4	543.13	0.00
47.00	0.00	3	543.13	0.00
47.20	0.00	3	543.13	0.00
47.40	0.00	3	543.13	0.00
47.60	0.00	3	543.13	0.00
47.80	0.00	2	543.13	0.00
48.00	0.00	2	543.13	0.00
48.20	0.00	2	543.13	0.00
48.40	0.00	2	543.13	0.00
48.60	0.00	1	543.13	0.00
48.80	0.00	1	543.13	0.00
49.00	0.00	1	543.13	0.00
49.20	0.00	1	543.13	0.00
49.40	0.00	0	543.13	0.00
49.60	0.00	0	543.13	0.00
49.80	0.00	0	543.13	0.00
50.00	0.00	0	543.13	0.00
50.20	0.00	0	543.13	0.00
50.40	0.00	0	543.13	0.00
50.60	0.00	0	543.13	0.00
50.80	0.00	0	543.13	0.00
51.00	0.00	0	543.13	0.00
51.20	0.00	0	543.13	0.00
51.40	0.00	0	543.13	0.00
51.60	0.00	0	543.13	0.00
51.80	0.00	0	543.13	0.00

Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
52.00	0.00	0	543.13	0.00
52.20	0.00	0	543.13	0.00
52.40	0.00	0	543.13	0.00
52.60	0.00	0	543.13	0.00
52.80	0.00	0	543.13	0.00
53.00	0.00	0	543.13	0.00
53.20	0.00	0	543.13	0.00
53.40	0.00	0	543.13	0.00
53.60	0.00	0	543.13	0.00
53.80	0.00	0	543.13	0.00
54.00	0.00	0	543.13	0.00
54.20	0.00	0	543.13	0.00
54.40	0.00	0	543.13	0.00
54.60	0.00	0	543.13	0.00
54.80	0.00	0	543.13	0.00
55.00	0.00	0	543.13	0.00
55.20	0.00	0	543.13	0.00
55.40	0.00	0	543.13	0.00
55.60	0.00	0	543.13	0.00
55.80	0.00	0	543.13	0.00
56.00	0.00	0	543.13	0.00
56.20	0.00	0	543.13	0.00
56.40	0.00	0	543.13	0.00
56.60	0.00	0	543.13	0.00
56.80	0.00	0	543.13	0.00
57.00	0.00	0	543.13	0.00
57.20	0.00	0	543.13	0.00
57.40	0.00	0	543.13	0.00
57.60	0.00	0	543.13	0.00
57.80	0.00	0	543.13	0.00
58.00	0.00	0	543.13	0.00
58.20	0.00	0	543.13	0.00
58.40	0.00	0	543.13	0.00
58.60	0.00	0	543.13	0.00
58.80	0.00	0	543.13	0.00
59.00	0.00	0	543.13	0.00
59.20	0.00	0	543.13	0.00
59.40	0.00	0	543.13	0.00
59.60	0.00	0	543.13	0.00
59.80	0.00	0	543.13	0.00
60.00	0.00	0	543.13	0.00
60.20	0.00	0	543.13	0.00
60.40	0.00	0	543.13	0.00
60.60	0.00	0	543.13	0.00
60.80	0.00	0	543.13	0.00
61.00	0.00	0	543.13	0.00
61.20	0.00	0	543.13	0.00
61.40	0.00	0	543.13	0.00
61.60	0.00	0	543.13	0.00
61.80	0.00	0	543.13	0.00
62.00	0.00	0	543.13	0.00
62.20	0.00	0	543.13	0.00

**Hydrograph for Pond PV-9: Pervious Pavers 9 (continued)**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
62.40	0.00	0	543.13	0.00
62.60	0.00	0	543.13	0.00
62.80	0.00	0	543.13	0.00
63.00	0.00	0	543.13	0.00
63.20	0.00	0	543.13	0.00
63.40	0.00	0	543.13	0.00
63.60	0.00	0	543.13	0.00
63.80	0.00	0	543.13	0.00
64.00	0.00	0	543.13	0.00
64.20	0.00	0	543.13	0.00
64.40	0.00	0	543.13	0.00
64.60	0.00	0	543.13	0.00
64.80	0.00	0	543.13	0.00
65.00	0.00	0	543.13	0.00
65.20	0.00	0	543.13	0.00
65.40	0.00	0	543.13	0.00
65.60	0.00	0	543.13	0.00
65.80	0.00	0	543.13	0.00
66.00	0.00	0	543.13	0.00
66.20	0.00	0	543.13	0.00
66.40	0.00	0	543.13	0.00
66.60	0.00	0	543.13	0.00
66.80	0.00	0	543.13	0.00
67.00	0.00	0	543.13	0.00
67.20	0.00	0	543.13	0.00
67.40	0.00	0	543.13	0.00
67.60	0.00	0	543.13	0.00
67.80	0.00	0	543.13	0.00
68.00	0.00	0	543.13	0.00
68.20	0.00	0	543.13	0.00
68.40	0.00	0	543.13	0.00
68.60	0.00	0	543.13	0.00
68.80	0.00	0	543.13	0.00
69.00	0.00	0	543.13	0.00
69.20	0.00	0	543.13	0.00
69.40	0.00	0	543.13	0.00
69.60	0.00	0	543.13	0.00
69.80	0.00	0	543.13	0.00
70.00	0.00	0	543.13	0.00
70.20	0.00	0	543.13	0.00
70.40	0.00	0	543.13	0.00
70.60	0.00	0	543.13	0.00
70.80	0.00	0	543.13	0.00
71.00	0.00	0	543.13	0.00
71.20	0.00	0	543.13	0.00
71.40	0.00	0	543.13	0.00
71.60	0.00	0	543.13	0.00
71.80	0.00	0	543.13	0.00
72.00	0.00	0	543.13	0.00

**Stage-Area-Storage for Pond PV-9: Pervious Pavers 9**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)	Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
543.13	3,564	0	543.65	3,564	741
543.14	3,564	14	543.66	3,564	756
543.15	3,564	29	543.67	3,564	770
543.16	3,564	43	543.68	3,564	784
543.17	3,564	57	543.69	3,564	798
543.18	3,564	71	543.70	3,564	813
543.19	3,564	86	543.71	3,564	827
543.20	3,564	100	543.72	3,564	841
543.21	3,564	114	543.73	3,564	855
543.22	3,564	128	543.74	3,564	870
543.23	3,564	143	543.75	3,564	884
543.24	3,564	157	543.76	3,564	898
543.25	3,564	171	543.77	3,564	912
543.26	3,564	185	543.78	3,564	927
543.27	3,564	200	543.79	3,564	941
543.28	3,564	214	543.80	3,564	955
543.29	3,564	228	543.81	3,564	969
543.30	3,564	242	543.82	3,564	984
543.31	3,564	257	543.83	3,564	998
543.32	3,564	271	543.84	3,564	1,012
543.33	3,564	285	543.85	3,564	1,026
543.34	3,564	299	543.86	3,564	1,041
543.35	3,564	314	543.87	3,564	1,055
543.36	3,564	328	543.88	3,564	1,069
543.37	3,564	342	543.89	3,564	1,083
543.38	3,564	356	543.90	3,564	1,098
543.39	3,564	371	543.91	3,564	1,112
543.40	3,564	385	543.92	3,564	1,126
543.41	3,564	399	543.93	3,564	1,140
543.42	3,564	413	543.94	3,564	1,155
543.43	3,564	428	543.95	3,564	1,169
543.44	3,564	442	543.96	3,564	1,183
543.45	3,564	456	543.97	3,564	1,198
543.46	3,564	470	543.98	3,564	1,212
543.47	3,564	485	543.99	3,564	1,226
543.48	3,564	499	544.00	3,564	1,240
543.49	3,564	513	544.01	3,564	1,255
543.50	3,564	527	544.02	3,564	1,269
543.51	3,564	542	544.03	3,564	1,283
543.52	3,564	556	544.04	3,564	1,297
543.53	3,564	570	544.05	3,564	1,312
543.54	3,564	584	544.06	3,564	1,326
543.55	3,564	599	544.07	3,564	1,340
543.56	3,564	613	544.08	3,564	1,354
543.57	3,564	627	544.09	3,564	1,369
543.58	3,564	642	544.10	3,564	1,383
543.59	3,564	656	544.11	3,564	1,397
543.60	3,564	670	544.12	3,564	1,411
543.61	3,564	684	544.13	3,564	1,426
543.62	3,564	699	544.14	3,564	1,440
543.63	3,564	713	544.15	3,564	1,454
543.64	3,564	727	544.16	3,564	1,468



**Stage-Area-Storage for Pond PV-9: Pervious Pavers 9 (continued)**

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
544.17	3,564	1,483
544.18	3,564	1,497
544.19	3,564	1,511
544.20	3,564	1,525
544.21	3,564	1,540
544.22	3,564	1,554
544.23	3,564	1,568
544.24	3,564	1,582
544.25	3,564	1,597
544.26	3,564	1,611
544.27	3,564	1,625
544.28	3,564	1,639
544.29	3,564	1,654
544.30	3,564	1,668
544.31	3,564	1,682
544.32	3,564	1,696
544.33	3,564	1,711
544.34	3,564	1,725
544.35	3,564	1,739
544.36	3,564	1,753
544.37	3,564	1,768
544.38	3,564	1,782
544.39	3,564	1,796
544.40	3,564	1,811
544.41	3,564	1,825
544.42	3,564	1,839
544.43	3,564	1,853
544.44	3,564	1,868
544.45	3,564	1,882
544.46	3,564	1,896
544.47	3,564	1,910
544.48	3,564	1,925
544.49	3,564	1,939
544.50	3,564	1,953
544.51	3,564	1,967
544.52	3,564	1,982
544.53	3,564	1,996
544.54	3,564	2,010
544.55	3,564	2,024
544.56	3,564	2,039
544.57	3,564	2,053
544.58	3,564	<b>2,067</b>

**Summary for Link P-1C: Proposed Pavers 7-11**

Inflow Area = 39,301 sf, 45.13% Impervious, Inflow Depth = 7.16" for 100-Year event  
Inflow = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf  
Primary = 2.09 cfs @ 12.27 hrs, Volume= 23,443 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

**Hydrograph for Link P-1C: Proposed Pavers 7-11**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	5.20	0.03	0.00	0.03
0.10	0.00	0.00	0.00	5.30	0.03	0.00	0.03
0.20	0.00	0.00	0.00	5.40	0.03	0.00	0.03
0.30	0.00	0.00	0.00	5.50	0.03	0.00	0.03
0.40	0.00	0.00	0.00	5.60	0.04	0.00	0.04
0.50	0.00	0.00	0.00	5.70	0.04	0.00	0.04
0.60	0.00	0.00	0.00	5.80	0.04	0.00	0.04
0.70	0.00	0.00	0.00	5.90	0.04	0.00	0.04
0.80	0.00	0.00	0.00	6.00	0.04	0.00	0.04
0.90	0.00	0.00	0.00	6.10	0.04	0.00	0.04
1.00	0.00	0.00	0.00	6.20	0.04	0.00	0.04
1.10	0.00	0.00	0.00	6.30	0.05	0.00	0.05
1.20	0.00	0.00	0.00	6.40	0.05	0.00	0.05
1.30	0.00	0.00	0.00	6.50	0.05	0.00	0.05
1.40	0.00	0.00	0.00	6.60	0.05	0.00	0.05
1.50	0.00	0.00	0.00	6.70	0.05	0.00	0.05
1.60	0.00	0.00	0.00	6.80	0.05	0.00	0.05
1.70	0.00	0.00	0.00	6.90	0.06	0.00	0.06
1.80	0.00	0.00	0.00	7.00	0.06	0.00	0.06
1.90	0.00	0.00	0.00	7.10	0.06	0.00	0.06
2.00	0.00	0.00	0.00	7.20	0.06	0.00	0.06
2.10	0.00	0.00	0.00	7.30	0.06	0.00	0.06
2.20	0.00	0.00	0.00	7.40	0.07	0.00	0.07
2.30	0.00	0.00	0.00	7.50	0.07	0.00	0.07
2.40	0.00	0.00	0.00	7.60	0.07	0.00	0.07
2.50	0.01	0.00	0.01	7.70	0.07	0.00	0.07
2.60	0.01	0.00	0.01	7.80	0.08	0.00	0.08
2.70	0.01	0.00	0.01	7.90	0.08	0.00	0.08
2.80	0.01	0.00	0.01	8.00	0.08	0.00	0.08
2.90	0.01	0.00	0.01	8.10	0.08	0.00	0.08
3.00	0.01	0.00	0.01	8.20	0.09	0.00	0.09
3.10	0.01	0.00	0.01	8.30	0.09	0.00	0.09
3.20	0.01	0.00	0.01	8.40	0.09	0.00	0.09
3.30	0.01	0.00	0.01	8.50	0.09	0.00	0.09
3.40	0.01	0.00	0.01	8.60	0.10	0.00	0.10
3.50	0.01	0.00	0.01	8.70	0.10	0.00	0.10
3.60	0.01	0.00	0.01	8.80	0.10	0.00	0.10
3.70	0.01	0.00	0.01	8.90	0.11	0.00	0.11
3.80	0.01	0.00	0.01	9.00	0.11	0.00	0.11
3.90	0.02	0.00	0.02	9.10	0.11	0.00	0.11
4.00	0.02	0.00	0.02	9.20	0.11	0.00	0.11
4.10	0.02	0.00	0.02	9.30	0.12	0.00	0.12
4.20	0.02	0.00	0.02	9.40	0.12	0.00	0.12
4.30	0.02	0.00	0.02	9.50	0.12	0.00	0.12
4.40	0.02	0.00	0.02	9.60	0.13	0.00	0.13
4.50	0.02	0.00	0.02	9.70	0.13	0.00	0.13
4.60	0.02	0.00	0.02	9.80	0.14	0.00	0.14
4.70	0.02	0.00	0.02	9.90	0.14	0.00	0.14
4.80	0.03	0.00	0.03	10.00	0.15	0.00	0.15
4.90	0.03	0.00	0.03	10.10	0.15	0.00	0.15
5.00	0.03	0.00	0.03	10.20	0.16	0.00	0.16
5.10	0.03	0.00	0.03	10.30	0.16	0.00	0.16

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.17	0.00	0.17	15.60	0.33	0.00	0.33
10.50	0.17	0.00	0.17	15.70	0.32	0.00	0.32
10.60	0.18	0.00	0.18	15.80	0.31	0.00	0.31
10.70	0.18	0.00	0.18	15.90	0.31	0.00	0.31
10.80	0.19	0.00	0.19	16.00	0.31	0.00	0.31
10.90	0.20	0.00	0.20	16.10	0.30	0.00	0.30
11.00	0.21	0.00	0.21	16.20	0.30	0.00	0.30
11.10	0.22	0.00	0.22	16.30	0.29	0.00	0.29
11.20	0.23	0.00	0.23	16.40	0.29	0.00	0.29
11.30	0.24	0.00	0.24	16.50	0.29	0.00	0.29
11.40	0.25	0.00	0.25	16.60	0.28	0.00	0.28
11.50	0.26	0.00	0.26	16.70	0.28	0.00	0.28
11.60	0.28	0.00	0.28	16.80	0.27	0.00	0.27
11.70	0.30	0.00	0.30	16.90	0.27	0.00	0.27
11.80	0.36	0.00	0.36	17.00	0.27	0.00	0.27
11.90	0.59	0.00	0.59	17.10	0.26	0.00	0.26
12.00	1.10	0.00	1.10	17.20	0.26	0.00	0.26
12.10	1.79	0.00	1.79	17.30	0.26	0.00	0.26
12.20	<b>2.07</b>	0.00	<b>2.07</b>	17.40	0.26	0.00	0.26
12.30	<b>2.09</b>	0.00	<b>2.09</b>	17.50	0.25	0.00	0.25
12.40	2.04	0.00	2.04	17.60	0.25	0.00	0.25
12.50	1.98	0.00	1.98	17.70	0.25	0.00	0.25
12.60	1.89	0.00	1.89	17.80	0.25	0.00	0.25
12.70	1.79	0.00	1.79	17.90	0.24	0.00	0.24
12.80	1.69	0.00	1.69	18.00	0.24	0.00	0.24
12.90	1.58	0.00	1.58	18.10	0.24	0.00	0.24
13.00	1.47	0.00	1.47	18.20	0.24	0.00	0.24
13.10	1.34	0.00	1.34	18.30	0.23	0.00	0.23
13.20	1.22	0.00	1.22	18.40	0.23	0.00	0.23
13.30	1.11	0.00	1.11	18.50	0.23	0.00	0.23
13.40	1.01	0.00	1.01	18.60	0.22	0.00	0.22
13.50	0.91	0.00	0.91	18.70	0.22	0.00	0.22
13.60	0.82	0.00	0.82	18.80	0.22	0.00	0.22
13.70	0.75	0.00	0.75	18.90	0.22	0.00	0.22
13.80	0.69	0.00	0.69	19.00	0.21	0.00	0.21
13.90	0.64	0.00	0.64	19.10	0.21	0.00	0.21
14.00	0.60	0.00	0.60	19.20	0.21	0.00	0.21
14.10	0.56	0.00	0.56	19.30	0.21	0.00	0.21
14.20	0.53	0.00	0.53	19.40	0.20	0.00	0.20
14.30	0.51	0.00	0.51	19.50	0.20	0.00	0.20
14.40	0.48	0.00	0.48	19.60	0.20	0.00	0.20
14.50	0.46	0.00	0.46	19.70	0.20	0.00	0.20
14.60	0.44	0.00	0.44	19.80	0.20	0.00	0.20
14.70	0.42	0.00	0.42	19.90	0.19	0.00	0.19
14.80	0.41	0.00	0.41	20.00	0.19	0.00	0.19
14.90	0.39	0.00	0.39	20.10	0.19	0.00	0.19
15.00	0.38	0.00	0.38	20.20	0.19	0.00	0.19
15.10	0.37	0.00	0.37	20.30	0.19	0.00	0.19
15.20	0.36	0.00	0.36	20.40	0.18	0.00	0.18
15.30	0.35	0.00	0.35	20.50	0.18	0.00	0.18
15.40	0.34	0.00	0.34	20.60	0.18	0.00	0.18
15.50	0.33	0.00	0.33	20.70	0.18	0.00	0.18

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.18	0.00	0.18	26.00	0.06	0.00	0.06
20.90	0.18	0.00	0.18	26.10	0.06	0.00	0.06
21.00	0.17	0.00	0.17	26.20	0.06	0.00	0.06
21.10	0.17	0.00	0.17	26.30	0.06	0.00	0.06
21.20	0.17	0.00	0.17	26.40	0.05	0.00	0.05
21.30	0.17	0.00	0.17	26.50	0.05	0.00	0.05
21.40	0.17	0.00	0.17	26.60	0.05	0.00	0.05
21.50	0.17	0.00	0.17	26.70	0.05	0.00	0.05
21.60	0.16	0.00	0.16	26.80	0.05	0.00	0.05
21.70	0.16	0.00	0.16	26.90	0.04	0.00	0.04
21.80	0.16	0.00	0.16	27.00	0.04	0.00	0.04
21.90	0.16	0.00	0.16	27.10	0.04	0.00	0.04
22.00	0.16	0.00	0.16	27.20	0.04	0.00	0.04
22.10	0.16	0.00	0.16	27.30	0.04	0.00	0.04
22.20	0.15	0.00	0.15	27.40	0.04	0.00	0.04
22.30	0.15	0.00	0.15	27.50	0.04	0.00	0.04
22.40	0.15	0.00	0.15	27.60	0.03	0.00	0.03
22.50	0.15	0.00	0.15	27.70	0.03	0.00	0.03
22.60	0.15	0.00	0.15	27.80	0.03	0.00	0.03
22.70	0.15	0.00	0.15	27.90	0.03	0.00	0.03
22.80	0.15	0.00	0.15	28.00	0.03	0.00	0.03
22.90	0.14	0.00	0.14	28.10	0.03	0.00	0.03
23.00	0.14	0.00	0.14	28.20	0.03	0.00	0.03
23.10	0.14	0.00	0.14	28.30	0.03	0.00	0.03
23.20	0.14	0.00	0.14	28.40	0.03	0.00	0.03
23.30	0.14	0.00	0.14	28.50	0.03	0.00	0.03
23.40	0.14	0.00	0.14	28.60	0.02	0.00	0.02
23.50	0.14	0.00	0.14	28.70	0.02	0.00	0.02
23.60	0.13	0.00	0.13	28.80	0.02	0.00	0.02
23.70	0.13	0.00	0.13	28.90	0.02	0.00	0.02
23.80	0.13	0.00	0.13	29.00	0.02	0.00	0.02
23.90	0.13	0.00	0.13	29.10	0.02	0.00	0.02
24.00	0.13	0.00	0.13	29.20	0.02	0.00	0.02
24.10	0.13	0.00	0.13	29.30	0.02	0.00	0.02
24.20	0.12	0.00	0.12	29.40	0.02	0.00	0.02
24.30	0.12	0.00	0.12	29.50	0.02	0.00	0.02
24.40	0.11	0.00	0.11	29.60	0.02	0.00	0.02
24.50	0.11	0.00	0.11	29.70	0.02	0.00	0.02
24.60	0.11	0.00	0.11	29.80	0.02	0.00	0.02
24.70	0.10	0.00	0.10	29.90	0.02	0.00	0.02
24.80	0.10	0.00	0.10	30.00	0.02	0.00	0.02
24.90	0.10	0.00	0.10	30.10	0.02	0.00	0.02
25.00	0.09	0.00	0.09	30.20	0.02	0.00	0.02
25.10	0.09	0.00	0.09	30.30	0.01	0.00	0.01
25.20	0.08	0.00	0.08	30.40	0.01	0.00	0.01
25.30	0.08	0.00	0.08	30.50	0.01	0.00	0.01
25.40	0.08	0.00	0.08	30.60	0.01	0.00	0.01
25.50	0.08	0.00	0.08	30.70	0.01	0.00	0.01
25.60	0.07	0.00	0.07	30.80	0.01	0.00	0.01
25.70	0.07	0.00	0.07	30.90	0.01	0.00	0.01
25.80	0.07	0.00	0.07	31.00	0.01	0.00	0.01
25.90	0.06	0.00	0.06	31.10	0.01	0.00	0.01

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
31.20	0.01	0.00	0.01	36.40	0.00	0.00	0.00
31.30	0.01	0.00	0.01	36.50	0.00	0.00	0.00
31.40	0.01	0.00	0.01	36.60	0.00	0.00	0.00
31.50	0.01	0.00	0.01	36.70	0.00	0.00	0.00
31.60	0.01	0.00	0.01	36.80	0.00	0.00	0.00
31.70	0.01	0.00	0.01	36.90	0.00	0.00	0.00
31.80	0.01	0.00	0.01	37.00	0.00	0.00	0.00
31.90	0.01	0.00	0.01	37.10	0.00	0.00	0.00
32.00	0.01	0.00	0.01	37.20	0.00	0.00	0.00
32.10	0.01	0.00	0.01	37.30	0.00	0.00	0.00
32.20	0.01	0.00	0.01	37.40	0.00	0.00	0.00
32.30	0.01	0.00	0.01	37.50	0.00	0.00	0.00
32.40	0.01	0.00	0.01	37.60	0.00	0.00	0.00
32.50	0.01	0.00	0.01	37.70	0.00	0.00	0.00
32.60	0.01	0.00	0.01	37.80	0.00	0.00	0.00
32.70	0.01	0.00	0.01	37.90	0.00	0.00	0.00
32.80	0.01	0.00	0.01	38.00	0.00	0.00	0.00
32.90	0.01	0.00	0.01	38.10	0.00	0.00	0.00
33.00	0.01	0.00	0.01	38.20	0.00	0.00	0.00
33.10	0.01	0.00	0.01	38.30	0.00	0.00	0.00
33.20	0.01	0.00	0.01	38.40	0.00	0.00	0.00
33.30	0.01	0.00	0.01	38.50	0.00	0.00	0.00
33.40	0.01	0.00	0.01	38.60	0.00	0.00	0.00
33.50	0.01	0.00	0.01	38.70	0.00	0.00	0.00
33.60	0.01	0.00	0.01	38.80	0.00	0.00	0.00
33.70	0.01	0.00	0.01	38.90	0.00	0.00	0.00
33.80	0.01	0.00	0.01	39.00	0.00	0.00	0.00
33.90	0.01	0.00	0.01	39.10	0.00	0.00	0.00
34.00	0.01	0.00	0.01	39.20	0.00	0.00	0.00
34.10	0.01	0.00	0.01	39.30	0.00	0.00	0.00
34.20	0.01	0.00	0.01	39.40	0.00	0.00	0.00
34.30	0.01	0.00	0.01	39.50	0.00	0.00	0.00
34.40	0.01	0.00	0.01	39.60	0.00	0.00	0.00
34.50	0.01	0.00	0.01	39.70	0.00	0.00	0.00
34.60	0.01	0.00	0.01	39.80	0.00	0.00	0.00
34.70	0.01	0.00	0.01	39.90	0.00	0.00	0.00
34.80	0.01	0.00	0.01	40.00	0.00	0.00	0.00
34.90	0.01	0.00	0.01	40.10	0.00	0.00	0.00
35.00	0.01	0.00	0.01	40.20	0.00	0.00	0.00
35.10	0.01	0.00	0.01	40.30	0.00	0.00	0.00
35.20	0.01	0.00	0.01	40.40	0.00	0.00	0.00
35.30	0.01	0.00	0.01	40.50	0.00	0.00	0.00
35.40	0.01	0.00	0.01	40.60	0.00	0.00	0.00
35.50	0.01	0.00	0.01	40.70	0.00	0.00	0.00
35.60	0.01	0.00	0.01	40.80	0.00	0.00	0.00
35.70	0.00	0.00	0.00	40.90	0.00	0.00	0.00
35.80	0.00	0.00	0.00	41.00	0.00	0.00	0.00
35.90	0.00	0.00	0.00	41.10	0.00	0.00	0.00
36.00	0.00	0.00	0.00	41.20	0.00	0.00	0.00
36.10	0.00	0.00	0.00	41.30	0.00	0.00	0.00
36.20	0.00	0.00	0.00	41.40	0.00	0.00	0.00
36.30	0.00	0.00	0.00	41.50	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
41.60	0.00	0.00	0.00	46.80	0.00	0.00	0.00
41.70	0.00	0.00	0.00	46.90	0.00	0.00	0.00
41.80	0.00	0.00	0.00	47.00	0.00	0.00	0.00
41.90	0.00	0.00	0.00	47.10	0.00	0.00	0.00
42.00	0.00	0.00	0.00	47.20	0.00	0.00	0.00
42.10	0.00	0.00	0.00	47.30	0.00	0.00	0.00
42.20	0.00	0.00	0.00	47.40	0.00	0.00	0.00
42.30	0.00	0.00	0.00	47.50	0.00	0.00	0.00
42.40	0.00	0.00	0.00	47.60	0.00	0.00	0.00
42.50	0.00	0.00	0.00	47.70	0.00	0.00	0.00
42.60	0.00	0.00	0.00	47.80	0.00	0.00	0.00
42.70	0.00	0.00	0.00	47.90	0.00	0.00	0.00
42.80	0.00	0.00	0.00	48.00	0.00	0.00	0.00
42.90	0.00	0.00	0.00	48.10	0.00	0.00	0.00
43.00	0.00	0.00	0.00	48.20	0.00	0.00	0.00
43.10	0.00	0.00	0.00	48.30	0.00	0.00	0.00
43.20	0.00	0.00	0.00	48.40	0.00	0.00	0.00
43.30	0.00	0.00	0.00	48.50	0.00	0.00	0.00
43.40	0.00	0.00	0.00	48.60	0.00	0.00	0.00
43.50	0.00	0.00	0.00	48.70	0.00	0.00	0.00
43.60	0.00	0.00	0.00	48.80	0.00	0.00	0.00
43.70	0.00	0.00	0.00	48.90	0.00	0.00	0.00
43.80	0.00	0.00	0.00	49.00	0.00	0.00	0.00
43.90	0.00	0.00	0.00	49.10	0.00	0.00	0.00
44.00	0.00	0.00	0.00	49.20	0.00	0.00	0.00
44.10	0.00	0.00	0.00	49.30	0.00	0.00	0.00
44.20	0.00	0.00	0.00	49.40	0.00	0.00	0.00
44.30	0.00	0.00	0.00	49.50	0.00	0.00	0.00
44.40	0.00	0.00	0.00	49.60	0.00	0.00	0.00
44.50	0.00	0.00	0.00	49.70	0.00	0.00	0.00
44.60	0.00	0.00	0.00	49.80	0.00	0.00	0.00
44.70	0.00	0.00	0.00	49.90	0.00	0.00	0.00
44.80	0.00	0.00	0.00	50.00	0.00	0.00	0.00
44.90	0.00	0.00	0.00	50.10	0.00	0.00	0.00
45.00	0.00	0.00	0.00	50.20	0.00	0.00	0.00
45.10	0.00	0.00	0.00	50.30	0.00	0.00	0.00
45.20	0.00	0.00	0.00	50.40	0.00	0.00	0.00
45.30	0.00	0.00	0.00	50.50	0.00	0.00	0.00
45.40	0.00	0.00	0.00	50.60	0.00	0.00	0.00
45.50	0.00	0.00	0.00	50.70	0.00	0.00	0.00
45.60	0.00	0.00	0.00	50.80	0.00	0.00	0.00
45.70	0.00	0.00	0.00	50.90	0.00	0.00	0.00
45.80	0.00	0.00	0.00	51.00	0.00	0.00	0.00
45.90	0.00	0.00	0.00	51.10	0.00	0.00	0.00
46.00	0.00	0.00	0.00	51.20	0.00	0.00	0.00
46.10	0.00	0.00	0.00	51.30	0.00	0.00	0.00
46.20	0.00	0.00	0.00	51.40	0.00	0.00	0.00
46.30	0.00	0.00	0.00	51.50	0.00	0.00	0.00
46.40	0.00	0.00	0.00	51.60	0.00	0.00	0.00
46.50	0.00	0.00	0.00	51.70	0.00	0.00	0.00
46.60	0.00	0.00	0.00	51.80	0.00	0.00	0.00
46.70	0.00	0.00	0.00	51.90	0.00	0.00	0.00

**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
52.00	0.00	0.00	0.00	57.20	0.00	0.00	0.00
52.10	0.00	0.00	0.00	57.30	0.00	0.00	0.00
52.20	0.00	0.00	0.00	57.40	0.00	0.00	0.00
52.30	0.00	0.00	0.00	57.50	0.00	0.00	0.00
52.40	0.00	0.00	0.00	57.60	0.00	0.00	0.00
52.50	0.00	0.00	0.00	57.70	0.00	0.00	0.00
52.60	0.00	0.00	0.00	57.80	0.00	0.00	0.00
52.70	0.00	0.00	0.00	57.90	0.00	0.00	0.00
52.80	0.00	0.00	0.00	58.00	0.00	0.00	0.00
52.90	0.00	0.00	0.00	58.10	0.00	0.00	0.00
53.00	0.00	0.00	0.00	58.20	0.00	0.00	0.00
53.10	0.00	0.00	0.00	58.30	0.00	0.00	0.00
53.20	0.00	0.00	0.00	58.40	0.00	0.00	0.00
53.30	0.00	0.00	0.00	58.50	0.00	0.00	0.00
53.40	0.00	0.00	0.00	58.60	0.00	0.00	0.00
53.50	0.00	0.00	0.00	58.70	0.00	0.00	0.00
53.60	0.00	0.00	0.00	58.80	0.00	0.00	0.00
53.70	0.00	0.00	0.00	58.90	0.00	0.00	0.00
53.80	0.00	0.00	0.00	59.00	0.00	0.00	0.00
53.90	0.00	0.00	0.00	59.10	0.00	0.00	0.00
54.00	0.00	0.00	0.00	59.20	0.00	0.00	0.00
54.10	0.00	0.00	0.00	59.30	0.00	0.00	0.00
54.20	0.00	0.00	0.00	59.40	0.00	0.00	0.00
54.30	0.00	0.00	0.00	59.50	0.00	0.00	0.00
54.40	0.00	0.00	0.00	59.60	0.00	0.00	0.00
54.50	0.00	0.00	0.00	59.70	0.00	0.00	0.00
54.60	0.00	0.00	0.00	59.80	0.00	0.00	0.00
54.70	0.00	0.00	0.00	59.90	0.00	0.00	0.00
54.80	0.00	0.00	0.00	60.00	0.00	0.00	0.00
54.90	0.00	0.00	0.00	60.10	0.00	0.00	0.00
55.00	0.00	0.00	0.00	60.20	0.00	0.00	0.00
55.10	0.00	0.00	0.00	60.30	0.00	0.00	0.00
55.20	0.00	0.00	0.00	60.40	0.00	0.00	0.00
55.30	0.00	0.00	0.00	60.50	0.00	0.00	0.00
55.40	0.00	0.00	0.00	60.60	0.00	0.00	0.00
55.50	0.00	0.00	0.00	60.70	0.00	0.00	0.00
55.60	0.00	0.00	0.00	60.80	0.00	0.00	0.00
55.70	0.00	0.00	0.00	60.90	0.00	0.00	0.00
55.80	0.00	0.00	0.00	61.00	0.00	0.00	0.00
55.90	0.00	0.00	0.00	61.10	0.00	0.00	0.00
56.00	0.00	0.00	0.00	61.20	0.00	0.00	0.00
56.10	0.00	0.00	0.00	61.30	0.00	0.00	0.00
56.20	0.00	0.00	0.00	61.40	0.00	0.00	0.00
56.30	0.00	0.00	0.00	61.50	0.00	0.00	0.00
56.40	0.00	0.00	0.00	61.60	0.00	0.00	0.00
56.50	0.00	0.00	0.00	61.70	0.00	0.00	0.00
56.60	0.00	0.00	0.00	61.80	0.00	0.00	0.00
56.70	0.00	0.00	0.00	61.90	0.00	0.00	0.00
56.80	0.00	0.00	0.00	62.00	0.00	0.00	0.00
56.90	0.00	0.00	0.00	62.10	0.00	0.00	0.00
57.00	0.00	0.00	0.00	62.20	0.00	0.00	0.00
57.10	0.00	0.00	0.00	62.30	0.00	0.00	0.00



**Hydrograph for Link P-1C: Proposed Pavers 7-11 (continued)**

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
62.40	0.00	0.00	0.00	67.60	0.00	0.00	0.00
62.50	0.00	0.00	0.00	67.70	0.00	0.00	0.00
62.60	0.00	0.00	0.00	67.80	0.00	0.00	0.00
62.70	0.00	0.00	0.00	67.90	0.00	0.00	0.00
62.80	0.00	0.00	0.00	68.00	0.00	0.00	0.00
62.90	0.00	0.00	0.00	68.10	0.00	0.00	0.00
63.00	0.00	0.00	0.00	68.20	0.00	0.00	0.00
63.10	0.00	0.00	0.00	68.30	0.00	0.00	0.00
63.20	0.00	0.00	0.00	68.40	0.00	0.00	0.00
63.30	0.00	0.00	0.00	68.50	0.00	0.00	0.00
63.40	0.00	0.00	0.00	68.60	0.00	0.00	0.00
63.50	0.00	0.00	0.00	68.70	0.00	0.00	0.00
63.60	0.00	0.00	0.00	68.80	0.00	0.00	0.00
63.70	0.00	0.00	0.00	68.90	0.00	0.00	0.00
63.80	0.00	0.00	0.00	69.00	0.00	0.00	0.00
63.90	0.00	0.00	0.00	69.10	0.00	0.00	0.00
64.00	0.00	0.00	0.00	69.20	0.00	0.00	0.00
64.10	0.00	0.00	0.00	69.30	0.00	0.00	0.00
64.20	0.00	0.00	0.00	69.40	0.00	0.00	0.00
64.30	0.00	0.00	0.00	69.50	0.00	0.00	0.00
64.40	0.00	0.00	0.00	69.60	0.00	0.00	0.00
64.50	0.00	0.00	0.00	69.70	0.00	0.00	0.00
64.60	0.00	0.00	0.00	69.80	0.00	0.00	0.00
64.70	0.00	0.00	0.00	69.90	0.00	0.00	0.00
64.80	0.00	0.00	0.00	70.00	0.00	0.00	0.00
64.90	0.00	0.00	0.00	70.10	0.00	0.00	0.00
65.00	0.00	0.00	0.00	70.20	0.00	0.00	0.00
65.10	0.00	0.00	0.00	70.30	0.00	0.00	0.00
65.20	0.00	0.00	0.00	70.40	0.00	0.00	0.00
65.30	0.00	0.00	0.00	70.50	0.00	0.00	0.00
65.40	0.00	0.00	0.00	70.60	0.00	0.00	0.00
65.50	0.00	0.00	0.00	70.70	0.00	0.00	0.00
65.60	0.00	0.00	0.00	70.80	0.00	0.00	0.00
65.70	0.00	0.00	0.00	70.90	0.00	0.00	0.00
65.80	0.00	0.00	0.00	71.00	0.00	0.00	0.00
65.90	0.00	0.00	0.00	71.10	0.00	0.00	0.00
66.00	0.00	0.00	0.00	71.20	0.00	0.00	0.00
66.10	0.00	0.00	0.00	71.30	0.00	0.00	0.00
66.20	0.00	0.00	0.00	71.40	0.00	0.00	0.00
66.30	0.00	0.00	0.00	71.50	0.00	0.00	0.00
66.40	0.00	0.00	0.00	71.60	0.00	0.00	0.00
66.50	0.00	0.00	0.00	71.70	0.00	0.00	0.00
66.60	0.00	0.00	0.00	71.80	0.00	0.00	0.00
66.70	0.00	0.00	0.00	71.90	0.00	0.00	0.00
66.80	0.00	0.00	0.00	72.00	0.00	0.00	0.00
66.90	0.00	0.00	0.00				
67.00	0.00	0.00	0.00				
67.10	0.00	0.00	0.00				
67.20	0.00	0.00	0.00				
67.30	0.00	0.00	0.00				
67.40	0.00	0.00	0.00				
67.50	0.00	0.00	0.00				

# **APPENDIX D DRAINAGE AREA MAPS**

## **INVENTORY**

**SHEET 1 OF 3: EXISTING DRAINAGE AREA MAP**

**SHEET 2 OF 3: PROPOSED DRAINAGE AREA MAP**

**SHEET 3 OF 3: WATER QUALITY EXHIBITS**

