

Stormwater Management Report

Prepared for:

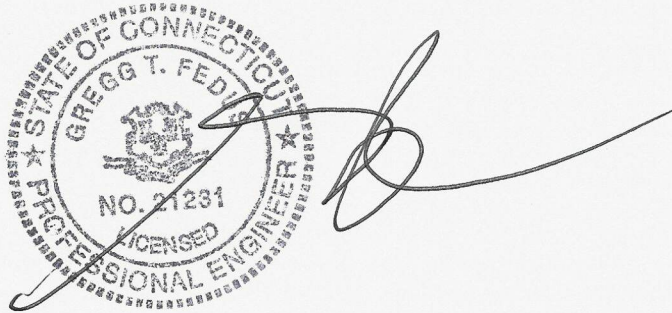
John Eoanou, JNE Holdings, LLC

695 Route 32

Montville, CT

SITE PLAN SUBMISSION

July 14, 2026



Prepared By:



70 Essex Street, Mystic, CT 06355 • Phone: 860-536-7390

Narrative Summary:

JNE Holdings, LLC is seeking to re-develop the property at 695 Route 32, Montville, CT. There will be one building with three Units, one existing, and two proposed. The units will be all three bedrooms with garage and outdoor parking. All stormwater from the access drive, the parking areas, and the buildings will be directed to an underground infiltration system within the parking lot. All stormwater from the access drive and outdoor parking will be pre-treated prior to entering the underground infiltration system. An outlet structure will control the stormwater exiting the underground infiltration and direct stormwater to a crushed stone infiltration and return the discharge to sheet flow prior to crossing the sanitary sewer easement. A short wall (three feet or less) is offset from the sanitary sewer easement one foot to keep all proposed grading off the easement.

We are treating 100% of the roof run-off and 100% of the new parking lot. Also, in regards to Runoff Discharge we offer the following:

1. There is no net increase in the peak rate of run-off for storms through the 100 year storm with the exception of the 2 year storm (slight increase of 0.05 cfs).
2. Rooftop drainage is all directed underground via piping directly to the underground infiltration system.
3. We are not changing our discharge location – all stormwater leaves the outlet structure and is piped to a crushed stone level spreader.

Our drainage study includes peak flow analysis, volume analysis, and stage-discharge. The Hydro Cad results are attached. The existing development flows and our proposed flows are outlined in the table below:

PEAK FLOW ANALYSIS

Storm (Years)	Existing Flow	Proposed Flow
2	0.40 CFS	0.45 CFS
10	0.90 CFS	0.75 CFS
25	1.33 CFS	0.99 CFS
50	1.74 CFS	1.21 CFS
100	2.25 CFS	1.87 CFS

VOLUME ANALYSIS

Storm (Years)	Existing Volume	Proposed Volume
2	0.036 acre-feet	0.028 acre-feet
10	0.075 acre-feet	0.059 acre-feet
25	0.110 acre-feet	0.088 acre-feet

50	0.144 acre-feet	0.117 acre-feet
100	0.185 acre-feet	0.153 acre-feet

Water Quality Volume – We have treated 100% of the parking lot stormwater with a hydro-dynamic separator prior to discharging into the underground infiltration. Also, all roof water is piped directly into the underground infiltration.

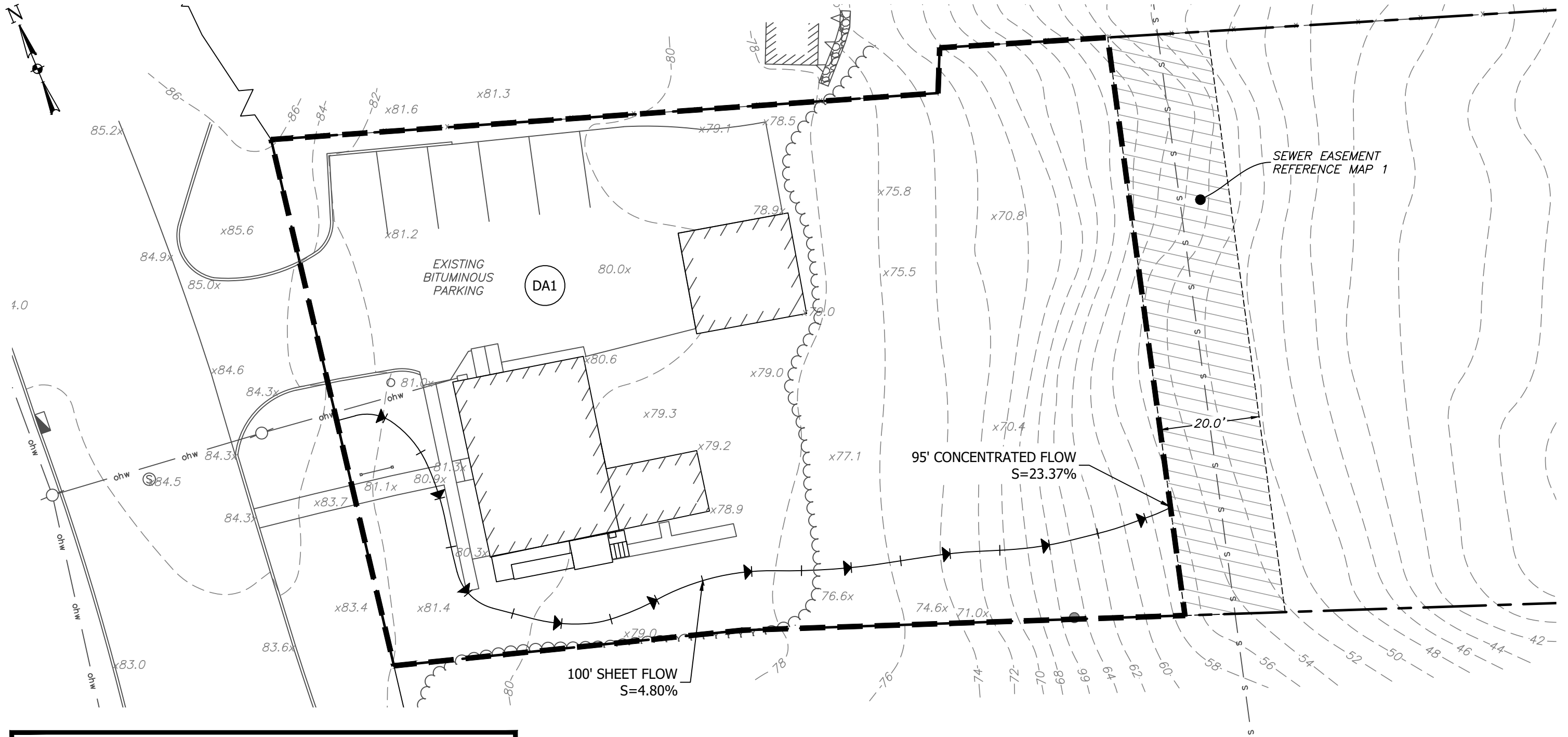
Conclusions:

The post development flows and volumes have been reduced from existing conditions using comparable rainfall data for all storms. The reductions are attributable to the construction of an underground infiltration system.

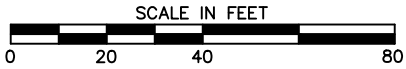
Attachments:

- Existing Drainage Area Map
- Proposed Drainage Area Map
- HydroCAD Printout for Existing Conditions and Proposed Conditions

P:\2026\26-001559 - MONTVILLE - 695 ROUTE 32 - NORTH GROUP\26-001559 - MONTVILLE - 695 ROUTE 32 - DRAINAGE MAPS.DWG



EXISTING DRAINAGE AREAS		
	DRAINAGE AREA 1 (DA1)	TOTAL
BUILDING AREAS	1,668 SF	1,668 SF
PARKING/IMPERVIOUS AREA	4,010 SF	4,010 SF
GRASS COVER AREA	4,428 SF	4,428 SF
WOODS AREA	7,603 SF	7,603 SF
TOTAL AREA	17,709 SF	17,709 SF



FEDUS ENGINEERING, LLC

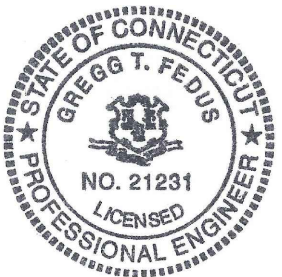
CIVIL ENGINEERS

Mailing Address: 70 Essex Street Mystic, Connecticut 06355

Office: (860) 536-7390

Gregg T. Fedus P.E.

CT. License No. 21231



Existing Drainage Map

of

695 Route 32

Montville, Connecticut

Prepared For:

North Group, LLC

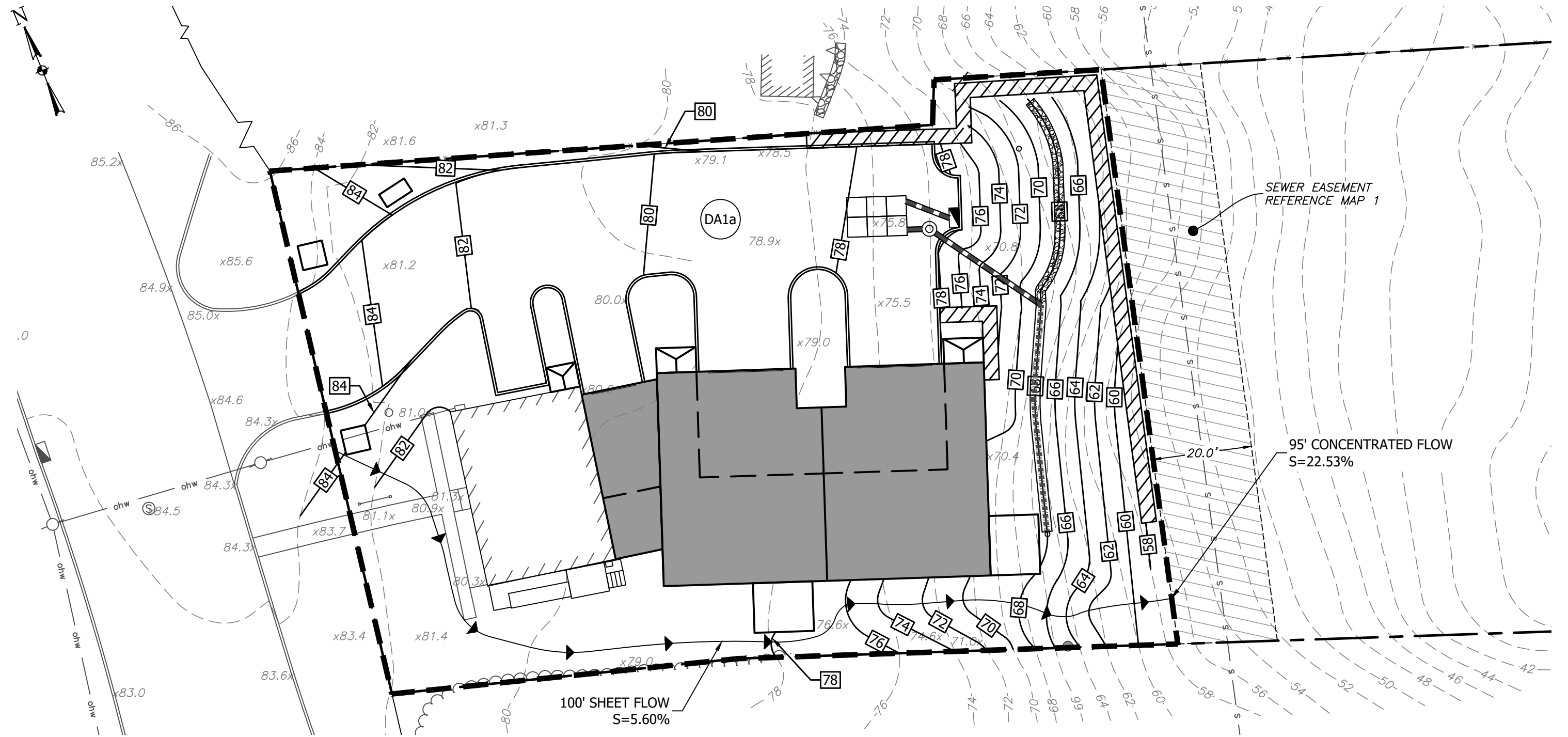
July 13, 2026

Scale: 1"=20'

JOB NO. 26-001559

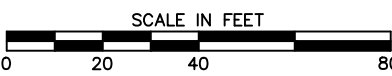
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PROPOSED DRAINAGE AREAS

	DRAINAGE AREA 1a (DA1a)	TOTAL
BUILDING AREAS	4,481 SF	4,481 SF
PARKING/IMPERVIOUS AREA	5,634 SF	5,634 SF
GRASS COVER AREA	7,594 SF	7,594 SF
TOTAL AREA	17,709 SF	17,709 SF

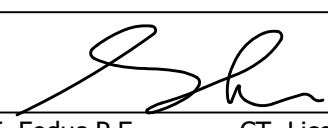


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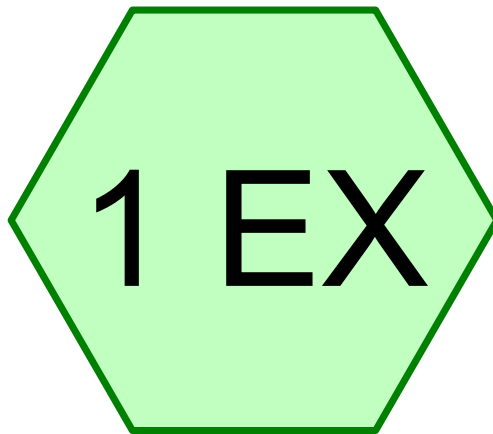
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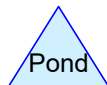
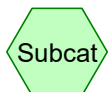
Proposed Drainage Map
of
695 Route 32
Montville, Connecticut
Prepared For:
North Group, LLC
July 13, 2026

Scale: 1"=20' JOB NO. 26-001559

Sheet
1 of 1



Existing Area 1



Existing Stormwater Analysis 2026 July

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2-Year	Type III 24-hr		Default	24.00	1	3.39	2
2	10-Year	Type III 24-hr		Default	24.00	1	5.03	2
3	25-Year	Type III 24-hr		Default	24.00	1	6.30	2
4	50-Year	Type III 24-hr		Default	24.00	1	7.48	2
5	100-Year	Type III 24-hr		Default	24.00	1	8.88	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.102	61	>75% Grass cover, Good, HSG B (1 EX)
0.092	98	Paved parking, HSG B (1 EX)
0.038	98	Roofs, HSG B (1 EX)
0.175	60	Woods, Fair, HSG B (1 EX)
0.407	72	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.407	HSG B	1 EX
0.000	HSG C	
0.000	HSG D	
0.000	Other	
0.407		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.102	0.000	0.000	0.000	0.102	>75% Grass cover, Good	1 EX
0.000	0.092	0.000	0.000	0.000	0.092	Paved parking	1 EX
0.000	0.038	0.000	0.000	0.000	0.038	Roofs	1 EX
0.000	0.175	0.000	0.000	0.000	0.175	Woods, Fair	1 EX
0.000	0.407	0.000	0.000	0.000	0.407	TOTAL AREA	

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Type III 24-hr 2-Year Rainfall=3.39"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment 1 EX: Existing Area 1

Runoff Area=17,709 sf 32.06% Impervious Runoff Depth=1.05"
Flow Length=195' Tc=10.4 min CN=72 Runoff=0.40 cfs 0.036 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.036 af Average Runoff Depth = 1.05"
67.94% Pervious = 0.276 ac 32.06% Impervious = 0.130 ac

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Type III 24-hr 2-Year Rainfall=3.39"

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Summary for Subcatchment 1 EX: Existing Area 1

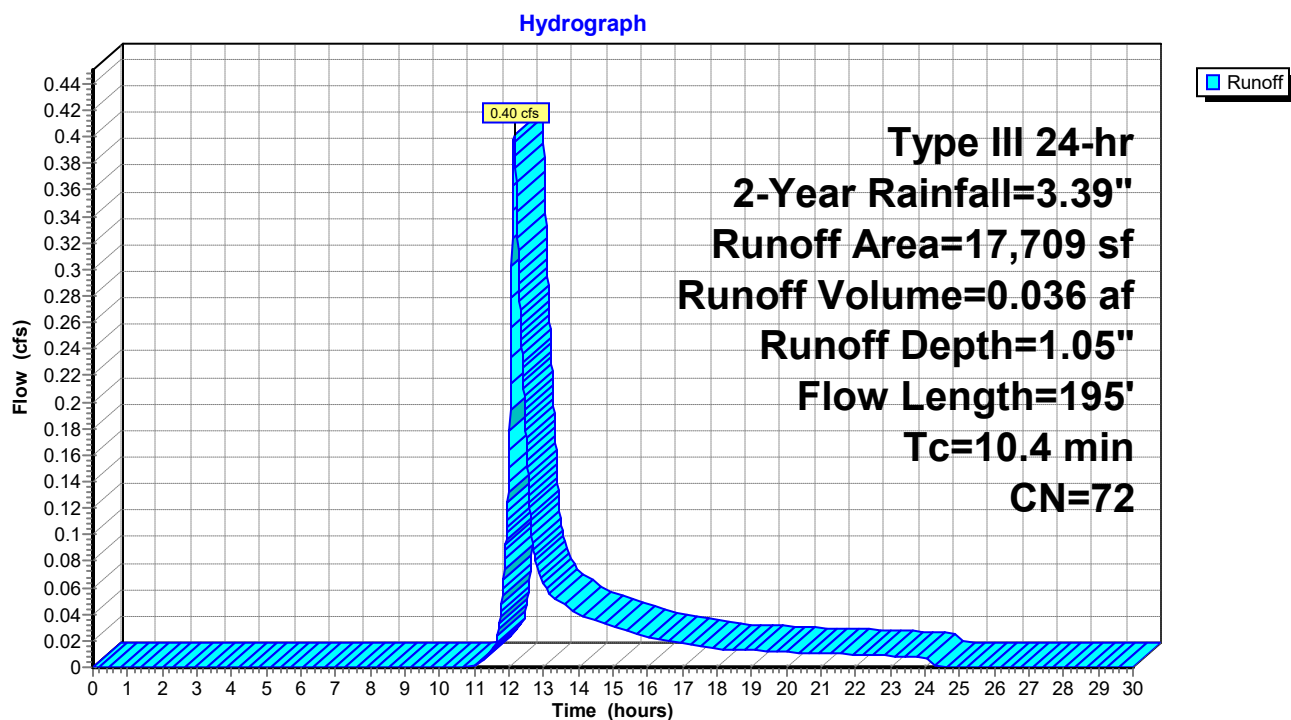
Runoff = 0.40 cfs @ 12.16 hrs, Volume= 0.036 af, Depth= 1.05"
Routed to nonexistent node 3L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.39"

Area (sf)	CN	Description
4,428	61	>75% Grass cover, Good, HSG B
4,010	98	Paved parking, HSG B
1,668	98	Roofs, HSG B
7,603	60	Woods, Fair, HSG B
17,709	72	Weighted Average
12,031		67.94% Pervious Area
5,678		32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0480	0.17		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Dense n= 0.240 P2= 3.39"
0.1	25	0.2237	3.31		Shallow Concentrated Flow, Lawn Area to Tree Line Short Grass Pasture Kv= 7.0 fps
0.5	70	0.2327	2.41		Shallow Concentrated Flow, Lawn Area to Easement Woodland Kv= 5.0 fps
10.4	195	Total			

Subcatchment 1 EX: Existing Area 1



Existing Stormwater Analysis 2026 July

Type III 24-hr 10-Year Rainfall=5.03"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment 1 EX: Existing Area 1

Runoff Area=17,709 sf 32.06% Impervious Runoff Depth=2.22"
Flow Length=195' Tc=10.4 min CN=72 Runoff=0.90 cfs 0.075 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.075 af Average Runoff Depth = 2.22"
67.94% Pervious = 0.276 ac 32.06% Impervious = 0.130 ac

Existing Stormwater Analysis 2026 July

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Type III 24-hr 10-Year Rainfall=5.03"

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Summary for Subcatchment 1 EX: Existing Area 1

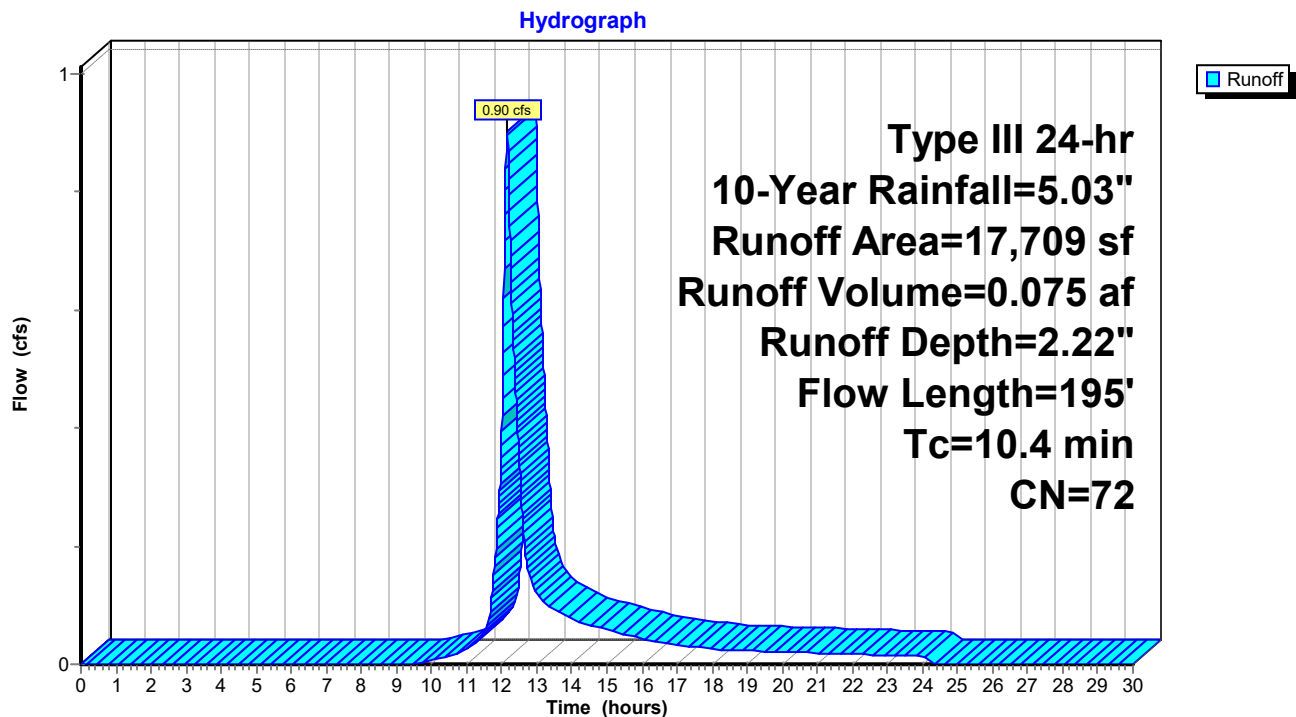
Runoff = 0.90 cfs @ 12.15 hrs, Volume= 0.075 af, Depth= 2.22"
Routed to nonexistent node 3L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.03"

Area (sf)	CN	Description
4,428	61	>75% Grass cover, Good, HSG B
4,010	98	Paved parking, HSG B
1,668	98	Roofs, HSG B
7,603	60	Woods, Fair, HSG B
17,709	72	Weighted Average
12,031		67.94% Pervious Area
5,678		32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0480	0.17		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Dense n= 0.240 P2= 3.39"
0.1	25	0.2237	3.31		Shallow Concentrated Flow, Lawn Area to Tree Line Short Grass Pasture Kv= 7.0 fps
0.5	70	0.2327	2.41		Shallow Concentrated Flow, Lawn Area to Easement Woodland Kv= 5.0 fps
10.4	195	Total			

Subcatchment 1 EX: Existing Area 1



Existing Stormwater Analysis 2026 July

Type III 24-hr 25-Year Rainfall=6.30"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment 1 EX: Existing Area 1

Runoff Area=17,709 sf 32.06% Impervious Runoff Depth=3.24"
Flow Length=195' Tc=10.4 min CN=72 Runoff=1.33 cfs 0.110 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.110 af Average Runoff Depth = 3.24"
67.94% Pervious = 0.276 ac 32.06% Impervious = 0.130 ac

Existing Stormwater Analysis 2026 July

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Type III 24-hr 25-Year Rainfall=6.30"

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Summary for Subcatchment 1 EX: Existing Area 1

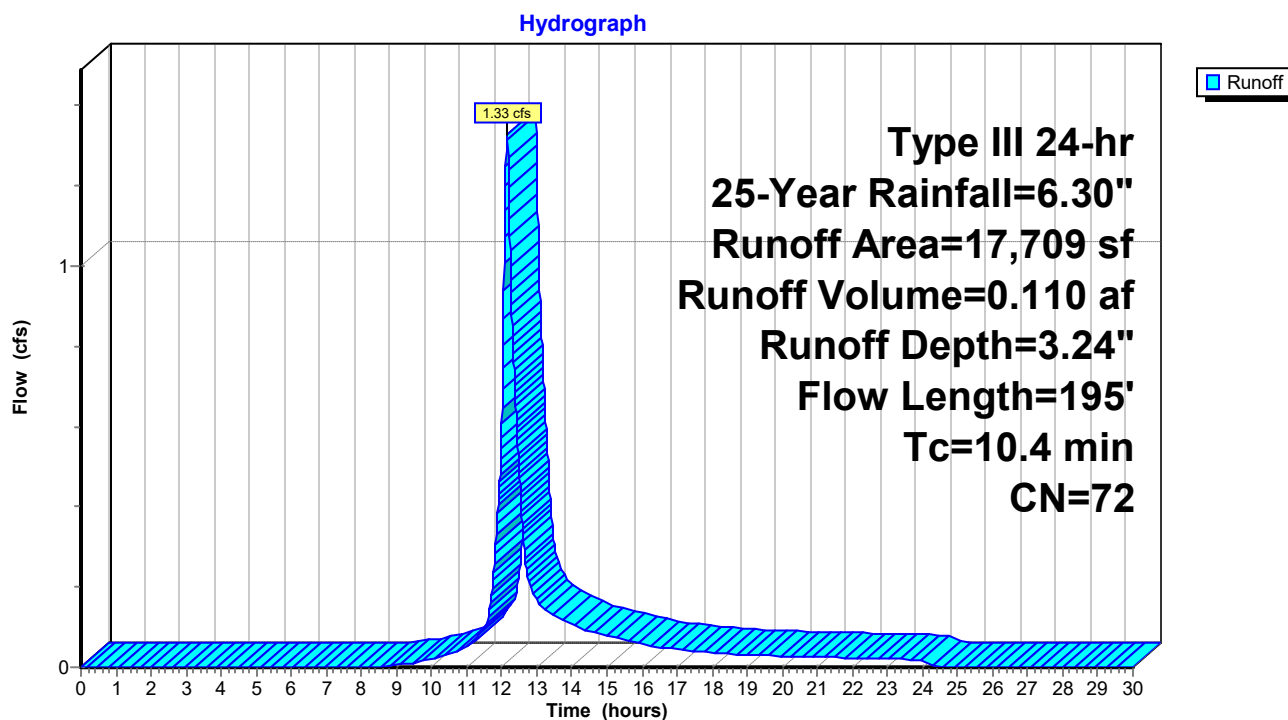
Runoff = 1.33 cfs @ 12.15 hrs, Volume= 0.110 af, Depth= 3.24"
Routed to nonexistent node 3L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.30"

Area (sf)	CN	Description
4,428	61	>75% Grass cover, Good, HSG B
4,010	98	Paved parking, HSG B
1,668	98	Roofs, HSG B
7,603	60	Woods, Fair, HSG B
17,709	72	Weighted Average
12,031		67.94% Pervious Area
5,678		32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0480	0.17		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Dense n= 0.240 P2= 3.39"
0.1	25	0.2237	3.31		Shallow Concentrated Flow, Lawn Area to Tree Line Short Grass Pasture Kv= 7.0 fps
0.5	70	0.2327	2.41		Shallow Concentrated Flow, Lawn Area to Easement Woodland Kv= 5.0 fps
10.4	195	Total			

Subcatchment 1 EX: Existing Area 1



Existing Stormwater Analysis 2026 July

Type III 24-hr 50-Year Rainfall=7.48"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment 1 EX: Existing Area 1

Runoff Area=17,709 sf 32.06% Impervious Runoff Depth=4.24"
Flow Length=195' Tc=10.4 min CN=72 Runoff=1.74 cfs 0.144 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.144 af Average Runoff Depth = 4.24"
67.94% Pervious = 0.276 ac 32.06% Impervious = 0.130 ac

Existing Stormwater Analysis 2026 July

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Type III 24-hr 50-Year Rainfall=7.48"

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Summary for Subcatchment 1 EX: Existing Area 1

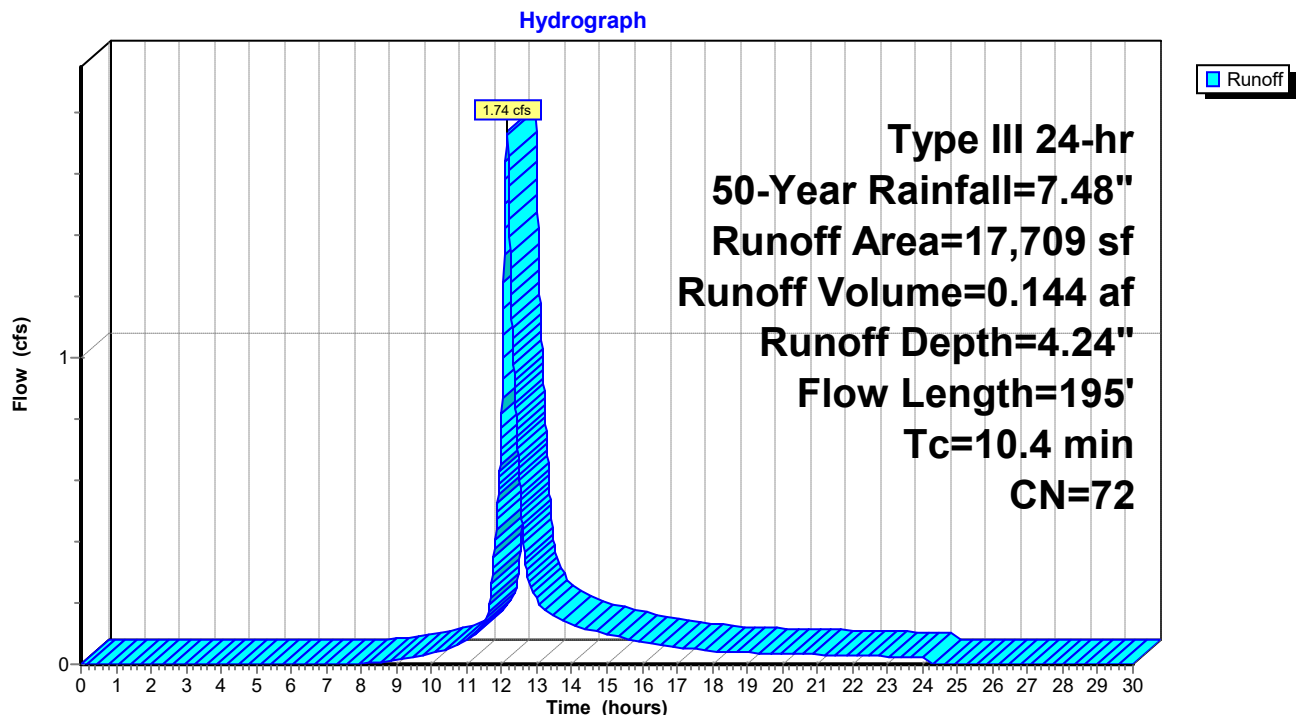
Runoff = 1.74 cfs @ 12.15 hrs, Volume= 0.144 af, Depth= 4.24"
Routed to nonexistent node 3L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-Year Rainfall=7.48"

Area (sf)	CN	Description
4,428	61	>75% Grass cover, Good, HSG B
4,010	98	Paved parking, HSG B
1,668	98	Roofs, HSG B
7,603	60	Woods, Fair, HSG B
17,709	72	Weighted Average
12,031		67.94% Pervious Area
5,678		32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0480	0.17		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Dense n= 0.240 P2= 3.39"
0.1	25	0.2237	3.31		Shallow Concentrated Flow, Lawn Area to Tree Line Short Grass Pasture Kv= 7.0 fps
0.5	70	0.2327	2.41		Shallow Concentrated Flow, Lawn Area to Easement Woodland Kv= 5.0 fps
10.4	195	Total			

Subcatchment 1 EX: Existing Area 1



Existing Stormwater Analysis 2026 July

Type III 24-hr 100-Year Rainfall=8.88"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment 1 EX: Existing Area 1

Runoff Area=17,709 sf 32.06% Impervious Runoff Depth=5.47"
Flow Length=195' Tc=10.4 min CN=72 Runoff=2.25 cfs 0.185 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.185 af Average Runoff Depth = 5.47"
67.94% Pervious = 0.276 ac 32.06% Impervious = 0.130 ac

Existing Stormwater Analysis 2026 July

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Type III 24-hr 100-Year Rainfall=8.88"

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Summary for Subcatchment 1 EX: Existing Area 1

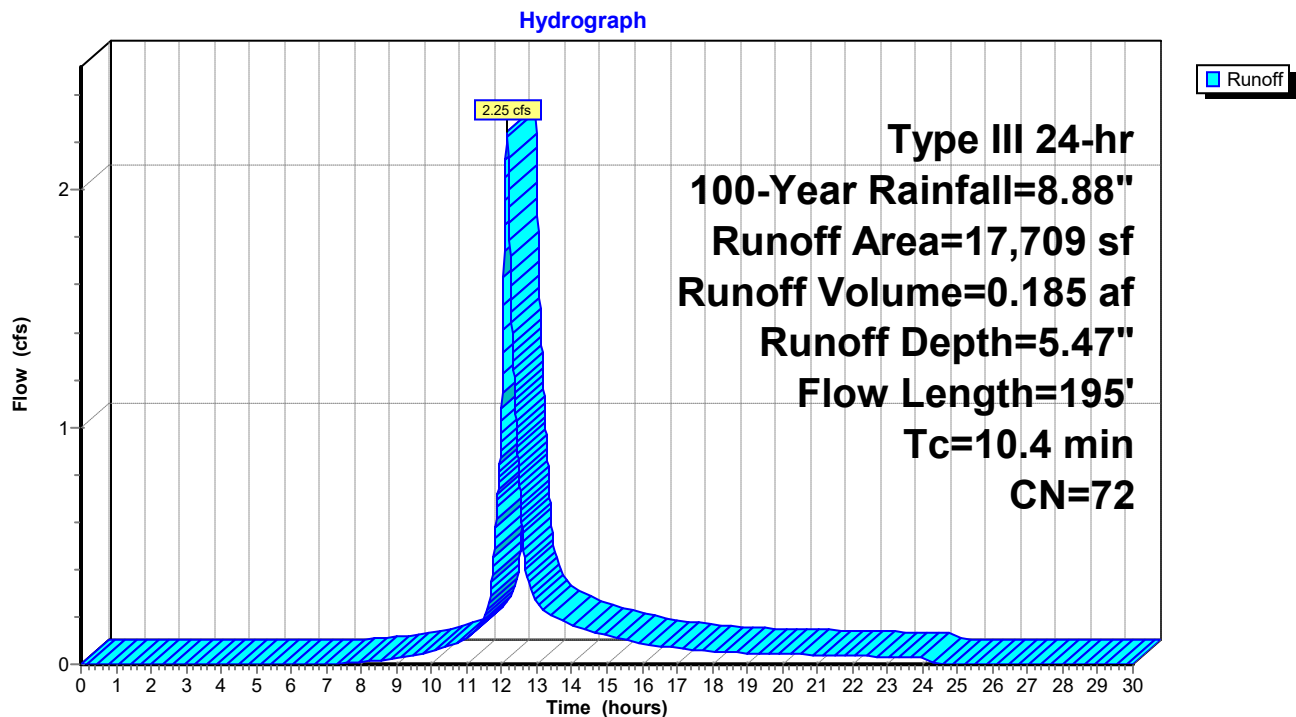
Runoff = 2.25 cfs @ 12.14 hrs, Volume= 0.185 af, Depth= 5.47"
Routed to nonexistent node 3L

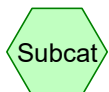
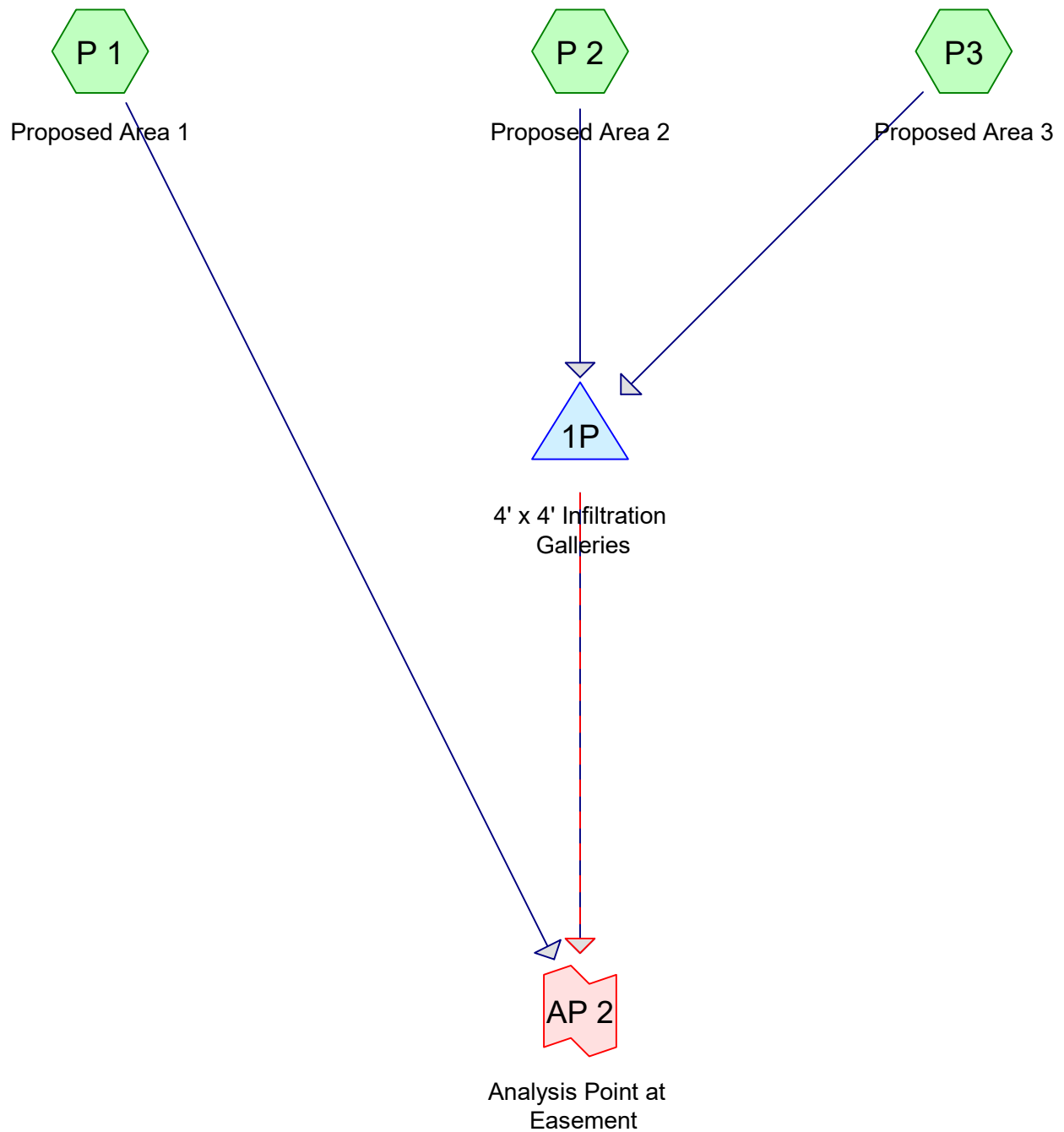
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.88"

Area (sf)	CN	Description
4,428	61	>75% Grass cover, Good, HSG B
4,010	98	Paved parking, HSG B
1,668	98	Roofs, HSG B
7,603	60	Woods, Fair, HSG B
17,709	72	Weighted Average
12,031		67.94% Pervious Area
5,678		32.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.8	100	0.0480	0.17		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Dense n= 0.240 P2= 3.39"
0.1	25	0.2237	3.31		Shallow Concentrated Flow, Lawn Area to Tree Line Short Grass Pasture Kv= 7.0 fps
0.5	70	0.2327	2.41		Shallow Concentrated Flow, Lawn Area to Easement Woodland Kv= 5.0 fps
10.4	195	Total			

Subcatchment 1 EX: Existing Area 1

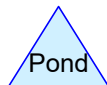




Subcat



Reach



Pond



Link

Routing Diagram for Proposed Stormwater Analysis 2026 July13

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Proposed Stormwater Analysis 2026 July13

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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
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2	10-Year	Type III 24-hr		Default	24.00	1	5.03	2
3	25-Year	Type III 24-hr		Default	24.00	1	6.30	2
4	50-Year	Type III 24-hr		Default	24.00	1	7.48	2
5	100-Year	Type III 24-hr		Default	24.00	1	8.88	2

Proposed Stormwater Analysis 2026 July13

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.174	61	>75% Grass cover, Good, HSG B (P 1)
0.129	98	Paved parking, HSG B (P3)
0.103	98	Roofs, HSG B (P 2)
0.407	82	TOTAL AREA

Proposed Stormwater Analysis 2026 July13

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	P 1, P 2, P3
0.407	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
0.407		TOTAL AREA

Proposed Stormwater Analysis 2026 July13

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.174	0.000	0.000	0.000	0.174	>75% Grass cover, Good	P 1
0.000	0.129	0.000	0.000	0.000	0.129	Paved parking	P3
0.000	0.103	0.000	0.000	0.000	0.103	Roofs	P 2
0.000	0.407	0.000	0.000	0.000	0.407	TOTAL AREA	

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 2-Year Rainfall=3.39"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment P 1: Proposed Area 1

Runoff Area=7,594 sf 0.00% Impervious Runoff Depth=0.52"
Flow Length=195' Tc=14.3 min CN=61 Runoff=0.06 cfs 0.008 af

Subcatchment P 2: Proposed Area 2

Runoff Area=4,481 sf 100.00% Impervious Runoff Depth=3.16"
Tc=5.0 min CN=98 Runoff=0.35 cfs 0.027 af

Subcatchment P3: Proposed Area 3

Runoff Area=5,634 sf 100.00% Impervious Runoff Depth=3.16"
Tc=5.0 min CN=98 Runoff=0.44 cfs 0.034 af

Pond 1P: 4' x 4' Infiltration Galleries

Peak Elev=71.88' Storage=400 cf Inflow=0.79 cfs 0.061 af
Discarded=0.05 cfs 0.041 af Primary=0.40 cfs 0.020 af Secondary=0.00 cfs 0.000 af Outflow=0.46 cfs 0.061 af

Link AP 2: Analysis Point at Easement

Inflow=0.45 cfs 0.028 af
Primary=0.45 cfs 0.028 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.069 af Average Runoff Depth = 2.03"
42.88% Pervious = 0.174 ac 57.12% Impervious = 0.232 ac

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 2-Year Rainfall=3.39"

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Summary for Subcatchment P 1: Proposed Area 1

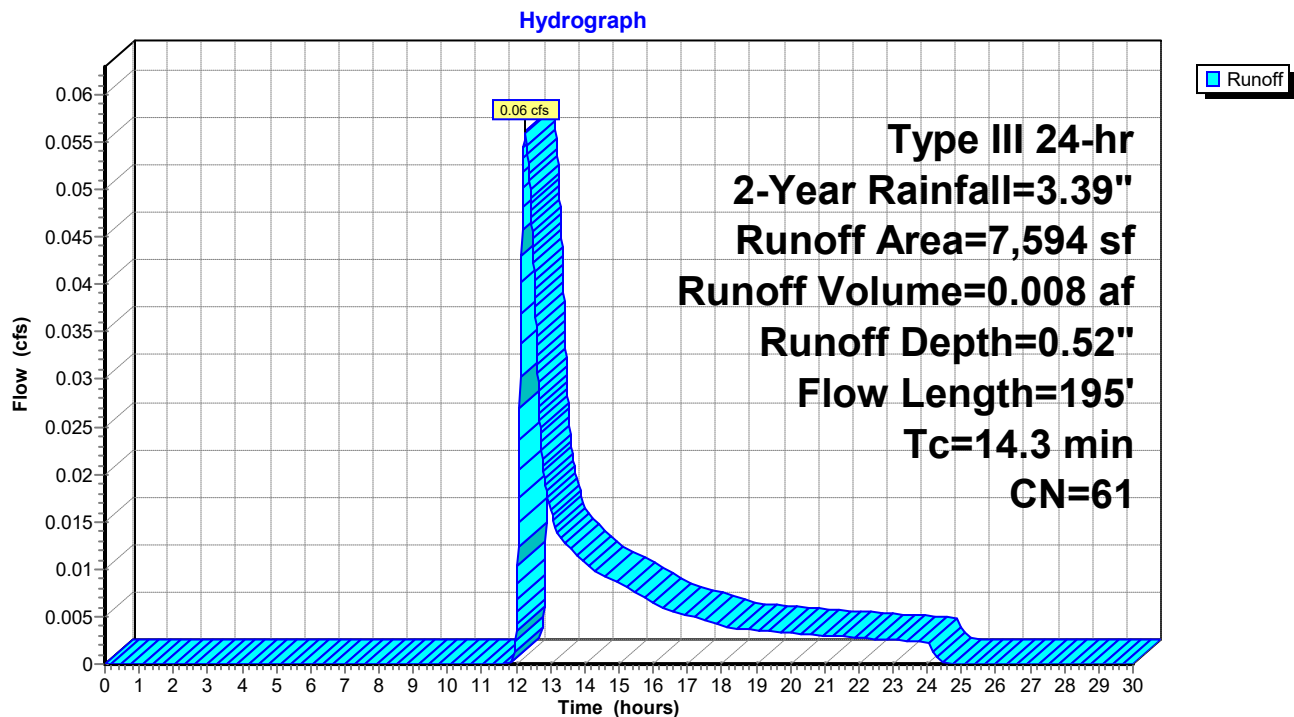
Runoff = 0.06 cfs @ 12.26 hrs, Volume= 0.008 af, Depth= 0.52"
Routed to Link AP 2 : Analysis Point at Easement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.39"

Area (sf)	CN	Description
7,594	61	>75% Grass cover, Good, HSG B
7,594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	100	0.0560	0.12		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Bermuda n= 0.410 P2= 3.39"
0.2	95	0.2253	7.12		Shallow Concentrated Flow, Lawn Area/ Swale/ Easement Area Grassed Waterway Kv= 15.0 fps
14.3	195	Total			

Subcatchment P 1: Proposed Area 1



Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 2-Year Rainfall=3.39"

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Hydrograph for Subcatchment P 1: Proposed Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	3.39	0.52	0.00
0.50	0.02	0.00	0.00	26.50	3.39	0.52	0.00
1.00	0.03	0.00	0.00	27.00	3.39	0.52	0.00
1.50	0.05	0.00	0.00	27.50	3.39	0.52	0.00
2.00	0.07	0.00	0.00	28.00	3.39	0.52	0.00
2.50	0.09	0.00	0.00	28.50	3.39	0.52	0.00
3.00	0.10	0.00	0.00	29.00	3.39	0.52	0.00
3.50	0.12	0.00	0.00	29.50	3.39	0.52	0.00
4.00	0.15	0.00	0.00	30.00	3.39	0.52	0.00
4.50	0.17	0.00	0.00				
5.00	0.19	0.00	0.00				
5.50	0.22	0.00	0.00				
6.00	0.24	0.00	0.00				
6.50	0.27	0.00	0.00				
7.00	0.31	0.00	0.00				
7.50	0.34	0.00	0.00				
8.00	0.39	0.00	0.00				
8.50	0.44	0.00	0.00				
9.00	0.49	0.00	0.00				
9.50	0.56	0.00	0.00				
10.00	0.64	0.00	0.00				
10.50	0.73	0.00	0.00				
11.00	0.85	0.00	0.00				
11.50	1.01	0.00	0.00				
12.00	1.69	0.03	0.00				
12.50	2.38	0.16	0.04				
13.00	2.54	0.21	0.02				
13.50	2.66	0.24	0.01				
14.00	2.75	0.28	0.01				
14.50	2.83	0.30	0.01				
15.00	2.90	0.33	0.01				
15.50	2.95	0.35	0.01				
16.00	3.00	0.37	0.01				
16.50	3.05	0.38	0.01				
17.00	3.08	0.40	0.01				
17.50	3.12	0.41	0.00				
18.00	3.15	0.42	0.00				
18.50	3.17	0.43	0.00				
19.00	3.20	0.44	0.00				
19.50	3.22	0.45	0.00				
20.00	3.24	0.46	0.00				
20.50	3.27	0.47	0.00				
21.00	3.29	0.48	0.00				
21.50	3.31	0.49	0.00				
22.00	3.32	0.50	0.00				
22.50	3.34	0.50	0.00				
23.00	3.36	0.51	0.00				
23.50	3.38	0.52	0.00				
24.00	3.39	0.52	0.00				
24.50	3.39	0.52	0.00				
25.00	3.39	0.52	0.00				
25.50	3.39	0.52	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 2-Year Rainfall=3.39"

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Summary for Subcatchment P 2: Proposed Area 2

Runoff = 0.35 cfs @ 12.07 hrs, Volume= 0.027 af, Depth= 3.16"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

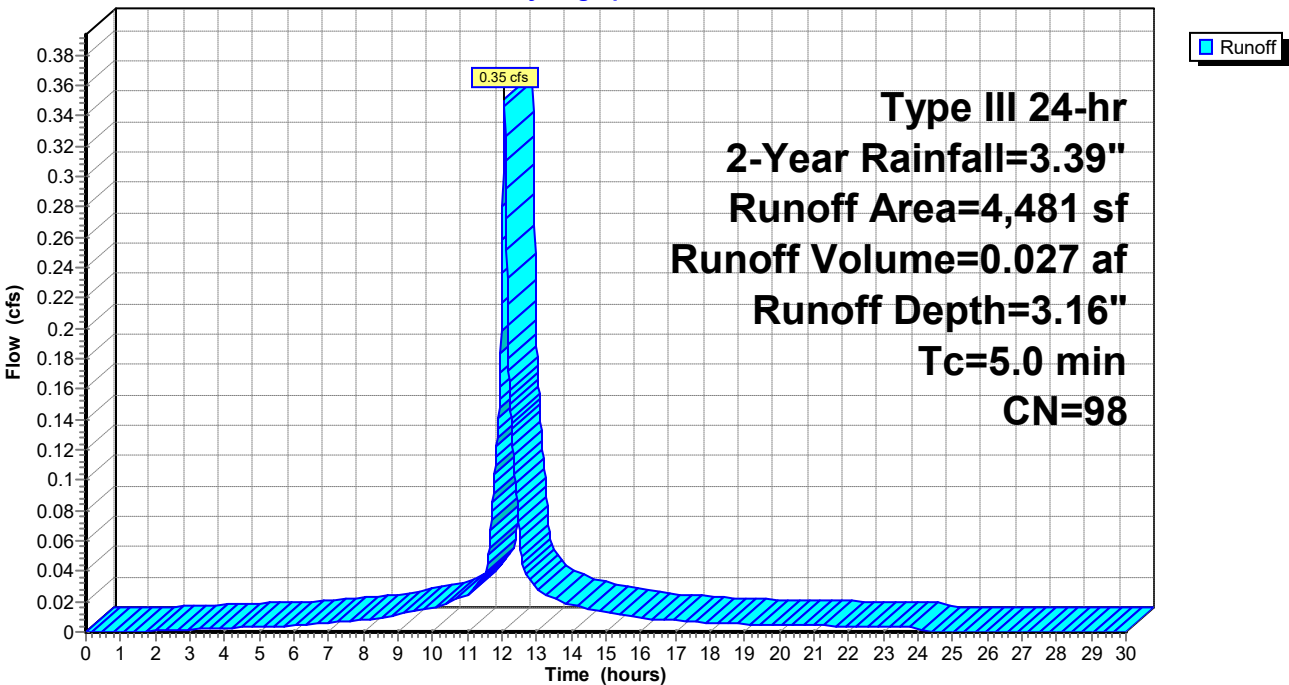
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.39"

Area (sf)	CN	Description
4,481	98	Roofs, HSG B
4,481		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Roofs to Underground Infiltration

Subcatchment P 2: Proposed Area 2

Hydrograph



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 2-Year Rainfall=3.39"*

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Hydrograph for Subcatchment P 2: Proposed Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	3.39	3.16	0.00
0.50	0.02	0.00	0.00	26.50	3.39	3.16	0.00
1.00	0.03	0.00	0.00	27.00	3.39	3.16	0.00
1.50	0.05	0.00	0.00	27.50	3.39	3.16	0.00
2.00	0.07	0.00	0.00	28.00	3.39	3.16	0.00
2.50	0.09	0.01	0.00	28.50	3.39	3.16	0.00
3.00	0.10	0.02	0.00	29.00	3.39	3.16	0.00
3.50	0.12	0.02	0.00	29.50	3.39	3.16	0.00
4.00	0.15	0.04	0.00	30.00	3.39	3.16	0.00
4.50	0.17	0.05	0.00				
5.00	0.19	0.06	0.00				
5.50	0.22	0.08	0.00				
6.00	0.24	0.10	0.00				
6.50	0.27	0.12	0.00				
7.00	0.31	0.15	0.01				
7.50	0.34	0.18	0.01				
8.00	0.39	0.22	0.01				
8.50	0.44	0.26	0.01				
9.00	0.49	0.31	0.01				
9.50	0.56	0.38	0.01				
10.00	0.64	0.45	0.02				
10.50	0.73	0.54	0.02				
11.00	0.85	0.64	0.02				
11.50	1.01	0.80	0.04				
12.00	1.69	1.47	0.24				
12.50	2.38	2.15	0.07				
13.00	2.54	2.31	0.03				
13.50	2.66	2.43	0.02				
14.00	2.75	2.52	0.02				
14.50	2.83	2.60	0.02				
15.00	2.90	2.66	0.01				
15.50	2.95	2.72	0.01				
16.00	3.00	2.77	0.01				
16.50	3.05	2.81	0.01				
17.00	3.08	2.85	0.01				
17.50	3.12	2.88	0.01				
18.00	3.15	2.91	0.01				
18.50	3.17	2.94	0.01				
19.00	3.20	2.97	0.01				
19.50	3.22	2.99	0.00				
20.00	3.24	3.01	0.00				
20.50	3.27	3.03	0.00				
21.00	3.29	3.05	0.00				
21.50	3.31	3.07	0.00				
22.00	3.32	3.09	0.00				
22.50	3.34	3.11	0.00				
23.00	3.36	3.13	0.00				
23.50	3.38	3.14	0.00				
24.00	3.39	3.16	0.00				
24.50	3.39	3.16	0.00				
25.00	3.39	3.16	0.00				
25.50	3.39	3.16	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 2-Year Rainfall=3.39"

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Summary for Subcatchment P3: Proposed Area 3

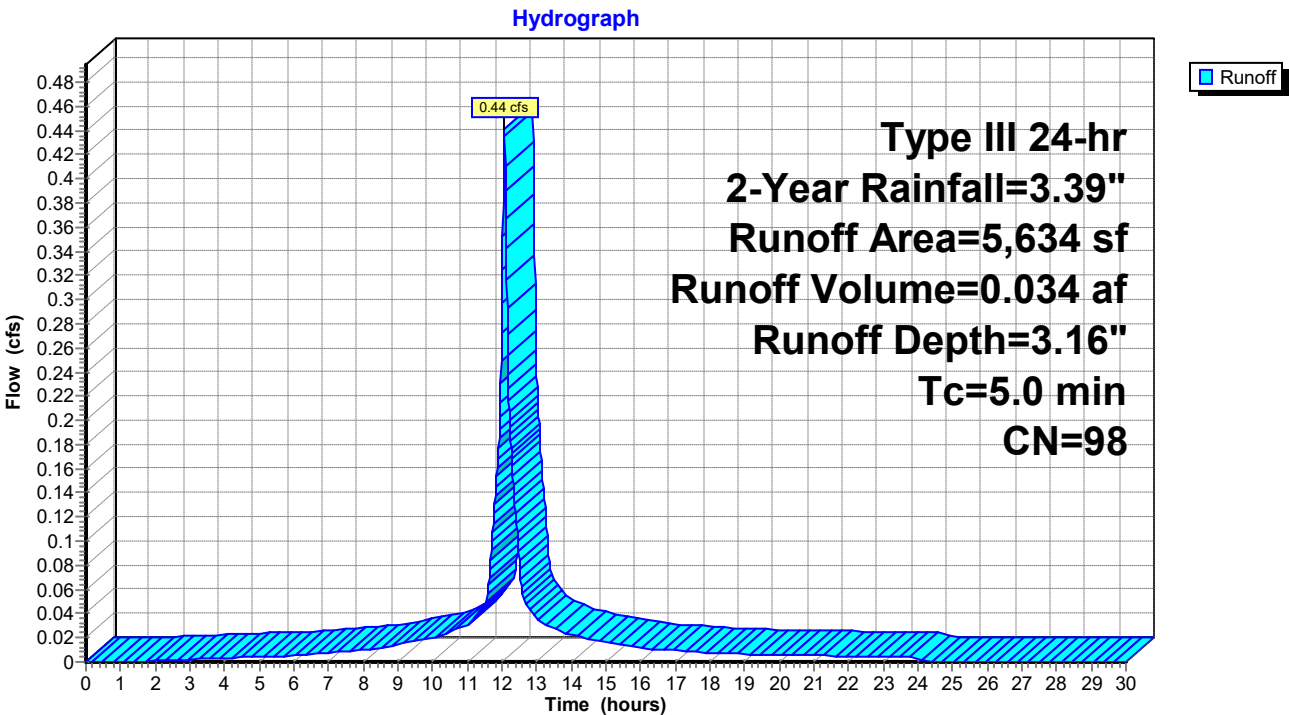
Runoff = 0.44 cfs @ 12.07 hrs, Volume= 0.034 af, Depth= 3.16"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-Year Rainfall=3.39"

Area (sf)	CN	Description
5,634	98	Paved parking, HSG B
5,634		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Parking area to Catch Basin

Subcatchment P3: Proposed Area 3



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 2-Year Rainfall=3.39"*

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Hydrograph for Subcatchment P3: Proposed Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	3.39	3.16	0.00
0.50	0.02	0.00	0.00	26.50	3.39	3.16	0.00
1.00	0.03	0.00	0.00	27.00	3.39	3.16	0.00
1.50	0.05	0.00	0.00	27.50	3.39	3.16	0.00
2.00	0.07	0.00	0.00	28.00	3.39	3.16	0.00
2.50	0.09	0.01	0.00	28.50	3.39	3.16	0.00
3.00	0.10	0.02	0.00	29.00	3.39	3.16	0.00
3.50	0.12	0.02	0.00	29.50	3.39	3.16	0.00
4.00	0.15	0.04	0.00	30.00	3.39	3.16	0.00
4.50	0.17	0.05	0.00				
5.00	0.19	0.06	0.00				
5.50	0.22	0.08	0.00				
6.00	0.24	0.10	0.01				
6.50	0.27	0.12	0.01				
7.00	0.31	0.15	0.01				
7.50	0.34	0.18	0.01				
8.00	0.39	0.22	0.01				
8.50	0.44	0.26	0.01				
9.00	0.49	0.31	0.01				
9.50	0.56	0.38	0.02				
10.00	0.64	0.45	0.02				
10.50	0.73	0.54	0.02				
11.00	0.85	0.64	0.03				
11.50	1.01	0.80	0.05				
12.00	1.69	1.47	0.30				
12.50	2.38	2.15	0.08				
13.00	2.54	2.31	0.04				
13.50	2.66	2.43	0.03				
14.00	2.75	2.52	0.02				
14.50	2.83	2.60	0.02				
15.00	2.90	2.66	0.02				
15.50	2.95	2.72	0.01				
16.00	3.00	2.77	0.01				
16.50	3.05	2.81	0.01				
17.00	3.08	2.85	0.01				
17.50	3.12	2.88	0.01				
18.00	3.15	2.91	0.01				
18.50	3.17	2.94	0.01				
19.00	3.20	2.97	0.01				
19.50	3.22	2.99	0.01				
20.00	3.24	3.01	0.01				
20.50	3.27	3.03	0.01				
21.00	3.29	3.05	0.01				
21.50	3.31	3.07	0.01				
22.00	3.32	3.09	0.00				
22.50	3.34	3.11	0.00				
23.00	3.36	3.13	0.00				
23.50	3.38	3.14	0.00				
24.00	3.39	3.16	0.00				
24.50	3.39	3.16	0.00				
25.00	3.39	3.16	0.00				
25.50	3.39	3.16	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 2-Year Rainfall=3.39"

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Summary for Pond 1P: 4' x 4' Infiltration Galleries

Inflow Area = 0.232 ac, 100.00% Impervious, Inflow Depth = 3.16" for 2-Year event
Inflow = 0.79 cfs @ 12.07 hrs, Volume= 0.061 af
Outflow = 0.46 cfs @ 12.17 hrs, Volume= 0.061 af, Atten= 43%, Lag= 6.0 min
Discarded = 0.05 cfs @ 11.08 hrs, Volume= 0.041 af
Primary = 0.40 cfs @ 12.17 hrs, Volume= 0.020 af
Routed to Link AP 2 : Analysis Point at Easement
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link AP 2 : Analysis Point at Easement

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Peak Elev= 71.88' @ 12.17 hrs Surf.Area= 395 sf Storage= 400 cf

Plug-Flow detention time= 12.9 min calculated for 0.061 af (100% of inflow)
Center-of-Mass det. time= 12.9 min (767.1 - 754.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	70.00'	525 cf	15.20'W x 26.00'L x 6.00'H Field A 2,371 cf Overall - 1,060 cf Embedded = 1,311 cf x 40.0% Voids
#2A	71.00'	798 cf	Concrete Galley 4x4x4 x 18 Inside #1 Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf 18 Chambers in 3 Rows
1,323 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices										
#1	Primary	70.80'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads 4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32										
#2	Secondary	75.00'											
#3	Discarded	70.00'	6.000 in/hr Exfiltration over Surface area										

Discarded OutFlow Max=0.05 cfs @ 11.08 hrs HW=70.06' (Free Discharge)
↑ **3=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.40 cfs @ 12.17 hrs HW=71.88' (Free Discharge)
↑ **1=Orifice/Grate** (Orifice Controls 0.40 cfs @ 4.59 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=70.00' (Free Discharge)
↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: 4' x 4' Infiltration Galleries - Chamber Wizard Field A

Chamber Model = Concrete Galley 4x4x4 (Concrete Galley, UCPI 4x4x4 Galley or equivalent)

Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf

Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf

6 Chambers/Row x 4.00' Long = 24.00' Row Length +12.0" End Stone x 2 = 26.00' Base Length

3 Rows x 52.8" Wide + 12.0" Side Stone x 2 = 15.20' Base Width

12.0" Stone Base + 48.0" Chamber Height + 12.0" Stone Cover = 6.00' Field Height

18 Chambers x 44.3 cf = 798.2 cf Chamber Storage

18 Chambers x 58.9 cf = 1,059.8 cf Displacement

2,371.2 cf Field - 1,059.8 cf Chambers = 1,311.4 cf Stone x 40.0% Voids = 524.6 cf Stone Storage

Chamber Storage + Stone Storage = 1,322.8 cf = 0.030 af

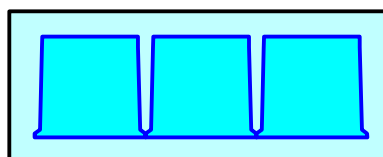
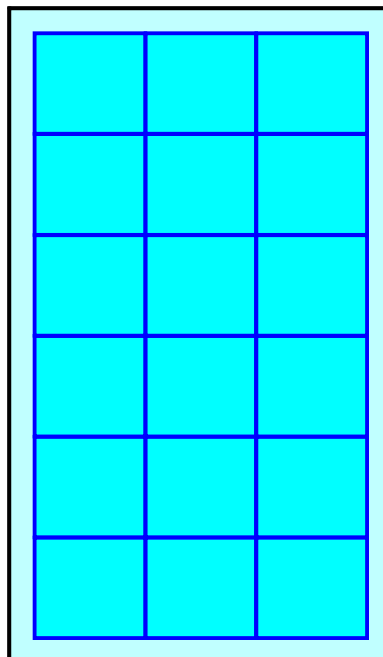
Overall Storage Efficiency = 55.8%

Overall System Size = 26.00' x 15.20' x 6.00'

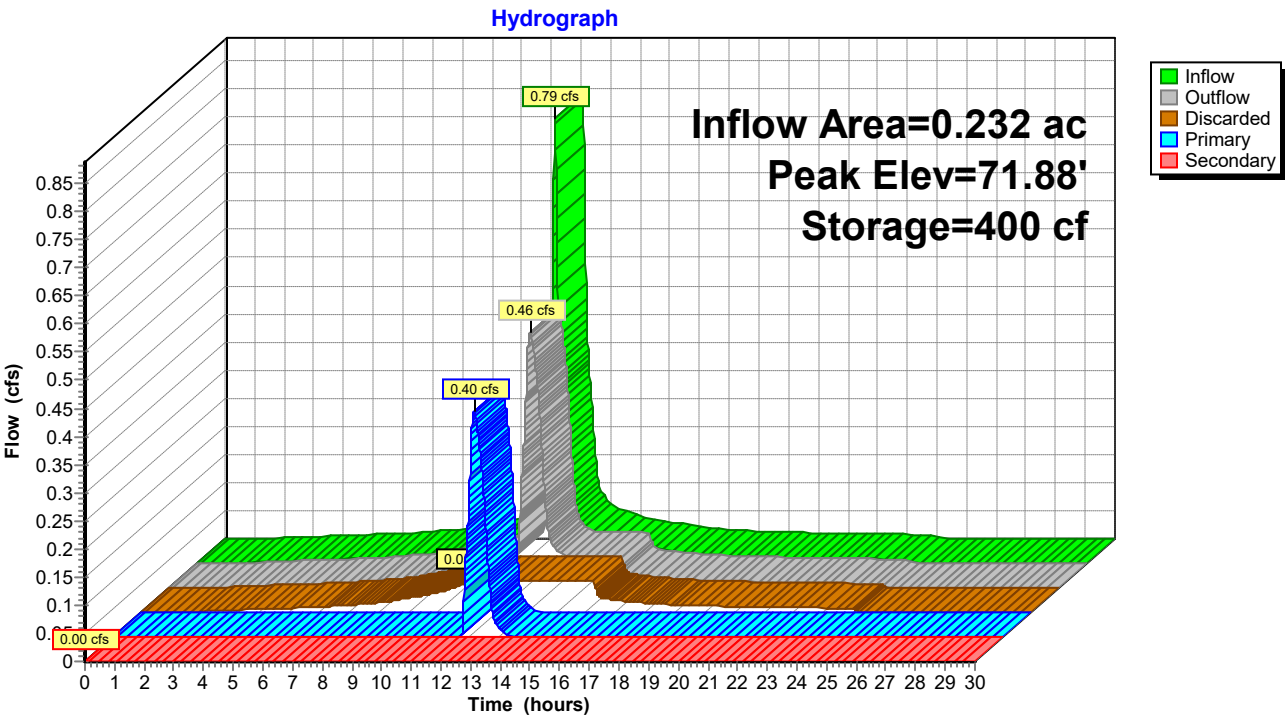
18 Chambers

87.8 cy Field

48.6 cy Stone



Pond 1P: 4' x 4' Infiltration Galleries



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 2-Year Rainfall=3.39"*

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Hydrograph for Pond 1P: 4' x 4' Infiltration Galleries

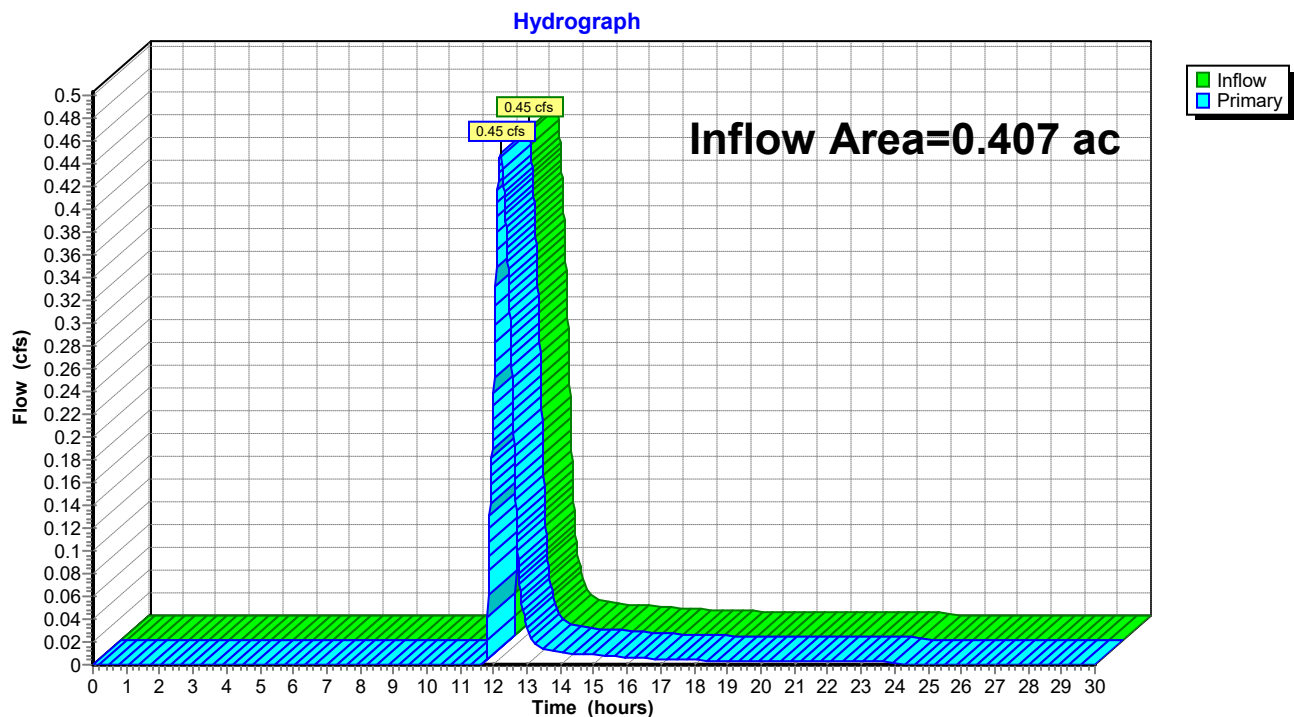
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0	70.00	0.00	0.00	0.00	0.00
1.00	0.00	0	70.00	0.00	0.00	0.00	0.00
2.00	0.00	0	70.00	0.00	0.00	0.00	0.00
3.00	0.00	1	70.00	0.00	0.00	0.00	0.00
4.00	0.01	1	70.01	0.01	0.01	0.00	0.00
5.00	0.01	1	70.01	0.01	0.01	0.00	0.00
6.00	0.01	2	70.01	0.01	0.01	0.00	0.00
7.00	0.01	2	70.01	0.01	0.01	0.00	0.00
8.00	0.02	3	70.02	0.02	0.02	0.00	0.00
9.00	0.03	4	70.03	0.03	0.03	0.00	0.00
10.00	0.04	6	70.04	0.04	0.04	0.00	0.00
11.00	0.05	9	70.06	0.05	0.05	0.00	0.00
12.00	0.53	234	71.28	0.29	0.05	0.24	0.00
13.00	0.06	139	70.88	0.07	0.05	0.02	0.00
14.00	0.04	110	70.69	0.05	0.05	0.00	0.00
15.00	0.03	38	70.24	0.05	0.05	0.00	0.00
16.00	0.02	4	70.02	0.02	0.02	0.00	0.00
17.00	0.02	3	70.02	0.02	0.02	0.00	0.00
18.00	0.01	2	70.01	0.01	0.01	0.00	0.00
19.00	0.01	2	70.01	0.01	0.01	0.00	0.00
20.00	0.01	2	70.01	0.01	0.01	0.00	0.00
21.00	0.01	2	70.01	0.01	0.01	0.00	0.00
22.00	0.01	1	70.01	0.01	0.01	0.00	0.00
23.00	0.01	1	70.01	0.01	0.01	0.00	0.00
24.00	0.01	1	70.01	0.01	0.01	0.00	0.00
25.00	0.00	0	70.00	0.00	0.00	0.00	0.00
26.00	0.00	0	70.00	0.00	0.00	0.00	0.00
27.00	0.00	0	70.00	0.00	0.00	0.00	0.00
28.00	0.00	0	70.00	0.00	0.00	0.00	0.00
29.00	0.00	0	70.00	0.00	0.00	0.00	0.00
30.00	0.00	0	70.00	0.00	0.00	0.00	0.00

Summary for Link AP 2: Analysis Point at Easement

Inflow Area = 0.407 ac, 57.12% Impervious, Inflow Depth = 0.83" for 2-Year event
Inflow = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af
Primary = 0.45 cfs @ 12.20 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 3L

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Link AP 2: Analysis Point at Easement



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 2-Year Rainfall=3.39"*

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Hydrograph for Link AP 2: Analysis Point at Easement

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	27.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	28.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00	29.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	29.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00				
5.00	0.00	0.00	0.00				
5.50	0.00	0.00	0.00				
6.00	0.00	0.00	0.00				
6.50	0.00	0.00	0.00				
7.00	0.00	0.00	0.00				
7.50	0.00	0.00	0.00				
8.00	0.00	0.00	0.00				
8.50	0.00	0.00	0.00				
9.00	0.00	0.00	0.00				
9.50	0.00	0.00	0.00				
10.00	0.00	0.00	0.00				
10.50	0.00	0.00	0.00				
11.00	0.00	0.00	0.00				
11.50	0.00	0.00	0.00				
12.00	0.24	0.00	0.24				
12.50	0.30	0.00	0.30				
13.00	0.03	0.00	0.03				
13.50	0.01	0.00	0.01				
14.00	0.01	0.00	0.01				
14.50	0.01	0.00	0.01				
15.00	0.01	0.00	0.01				
15.50	0.01	0.00	0.01				
16.00	0.01	0.00	0.01				
16.50	0.01	0.00	0.01				
17.00	0.01	0.00	0.01				
17.50	0.00	0.00	0.00				
18.00	0.00	0.00	0.00				
18.50	0.00	0.00	0.00				
19.00	0.00	0.00	0.00				
19.50	0.00	0.00	0.00				
20.00	0.00	0.00	0.00				
20.50	0.00	0.00	0.00				
21.00	0.00	0.00	0.00				
21.50	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
22.50	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
23.50	0.00	0.00	0.00				
24.00	0.00	0.00	0.00				
24.50	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
25.50	0.00	0.00	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 10-Year Rainfall=5.03"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment P 1: Proposed Area 1

Runoff Area=7,594 sf 0.00% Impervious Runoff Depth=1.39"
Flow Length=195' Tc=14.3 min CN=61 Runoff=0.20 cfs 0.020 af

Subcatchment P 2: Proposed Area 2

Runoff Area=4,481 sf 100.00% Impervious Runoff Depth=4.79"
Tc=5.0 min CN=98 Runoff=0.52 cfs 0.041 af

Subcatchment P3: Proposed Area 3

Runoff Area=5,634 sf 100.00% Impervious Runoff Depth=4.79"
Tc=5.0 min CN=98 Runoff=0.66 cfs 0.052 af

Pond 1P: 4' x 4' Infiltration Galleries

Peak Elev=72.69' Storage=625 cf Inflow=1.18 cfs 0.093 af
Discarded=0.05 cfs 0.054 af Primary=0.55 cfs 0.039 af Secondary=0.00 cfs 0.000 af Outflow=0.61 cfs 0.093 af

Link AP 2: Analysis Point at Easement

Inflow=0.75 cfs 0.059 af
Primary=0.75 cfs 0.059 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.113 af Average Runoff Depth = 3.33"
42.88% Pervious = 0.174 ac 57.12% Impervious = 0.232 ac

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 10-Year Rainfall=5.03"

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Summary for Subcatchment P 1: Proposed Area 1

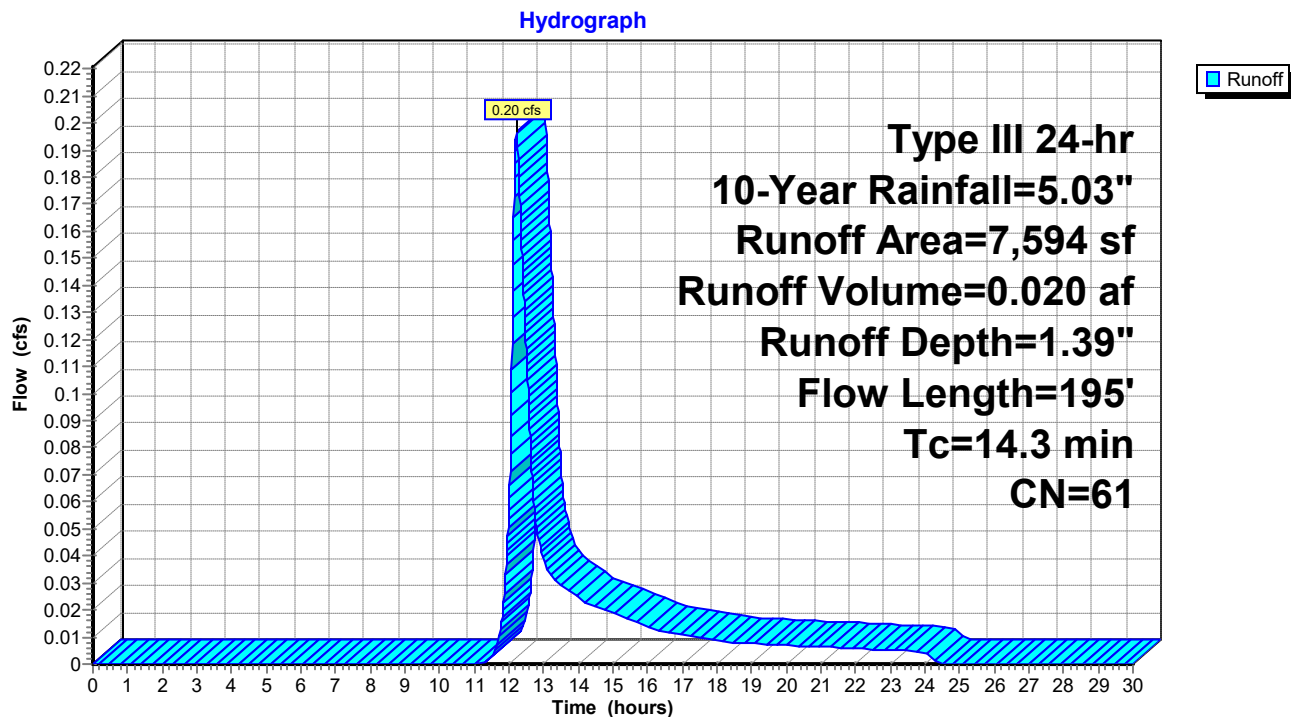
Runoff = 0.20 cfs @ 12.22 hrs, Volume= 0.020 af, Depth= 1.39"
Routed to Link AP 2 : Analysis Point at Easement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.03"

Area (sf)	CN	Description
7,594	61	>75% Grass cover, Good, HSG B
7,594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	100	0.0560	0.12		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Bermuda n= 0.410 P2= 3.39"
0.2	95	0.2253	7.12		Shallow Concentrated Flow, Lawn Area/ Swale/ Easement Area Grassed Waterway Kv= 15.0 fps
14.3	195	Total			

Subcatchment P 1: Proposed Area 1



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 10-Year Rainfall=5.03"*

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Hydrograph for Subcatchment P 1: Proposed Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	5.03	1.39	0.00
0.50	0.03	0.00	0.00	26.50	5.03	1.39	0.00
1.00	0.05	0.00	0.00	27.00	5.03	1.39	0.00
1.50	0.08	0.00	0.00	27.50	5.03	1.39	0.00
2.00	0.10	0.00	0.00	28.00	5.03	1.39	0.00
2.50	0.13	0.00	0.00	28.50	5.03	1.39	0.00
3.00	0.15	0.00	0.00	29.00	5.03	1.39	0.00
3.50	0.18	0.00	0.00	29.50	5.03	1.39	0.00
4.00	0.22	0.00	0.00	30.00	5.03	1.39	0.00
4.50	0.25	0.00	0.00				
5.00	0.29	0.00	0.00				
5.50	0.32	0.00	0.00				
6.00	0.36	0.00	0.00				
6.50	0.41	0.00	0.00				
7.00	0.46	0.00	0.00				
7.50	0.51	0.00	0.00				
8.00	0.57	0.00	0.00				
8.50	0.65	0.00	0.00				
9.00	0.73	0.00	0.00				
9.50	0.83	0.00	0.00				
10.00	0.95	0.00	0.00				
10.50	1.09	0.00	0.00				
11.00	1.26	0.00	0.00				
11.50	1.50	0.01	0.00				
12.00	2.51	0.20	0.06				
12.50	3.53	0.59	0.12				
13.00	3.77	0.70	0.04				
13.50	3.94	0.78	0.03				
14.00	4.08	0.85	0.02				
14.50	4.20	0.91	0.02				
15.00	4.30	0.97	0.02				
15.50	4.38	1.02	0.02				
16.00	4.46	1.06	0.01				
16.50	4.52	1.09	0.01				
17.00	4.57	1.12	0.01				
17.50	4.62	1.15	0.01				
18.00	4.67	1.17	0.01				
18.50	4.71	1.20	0.01				
19.00	4.74	1.22	0.01				
19.50	4.78	1.24	0.01				
20.00	4.81	1.26	0.01				
20.50	4.85	1.28	0.01				
21.00	4.88	1.30	0.01				
21.50	4.91	1.31	0.01				
22.00	4.93	1.33	0.01				
22.50	4.96	1.34	0.01				
23.00	4.98	1.36	0.01				
23.50	5.01	1.37	0.00				
24.00	5.03	1.39	0.00				
24.50	5.03	1.39	0.00				
25.00	5.03	1.39	0.00				
25.50	5.03	1.39	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 10-Year Rainfall=5.03"

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Summary for Subcatchment P 2: Proposed Area 2

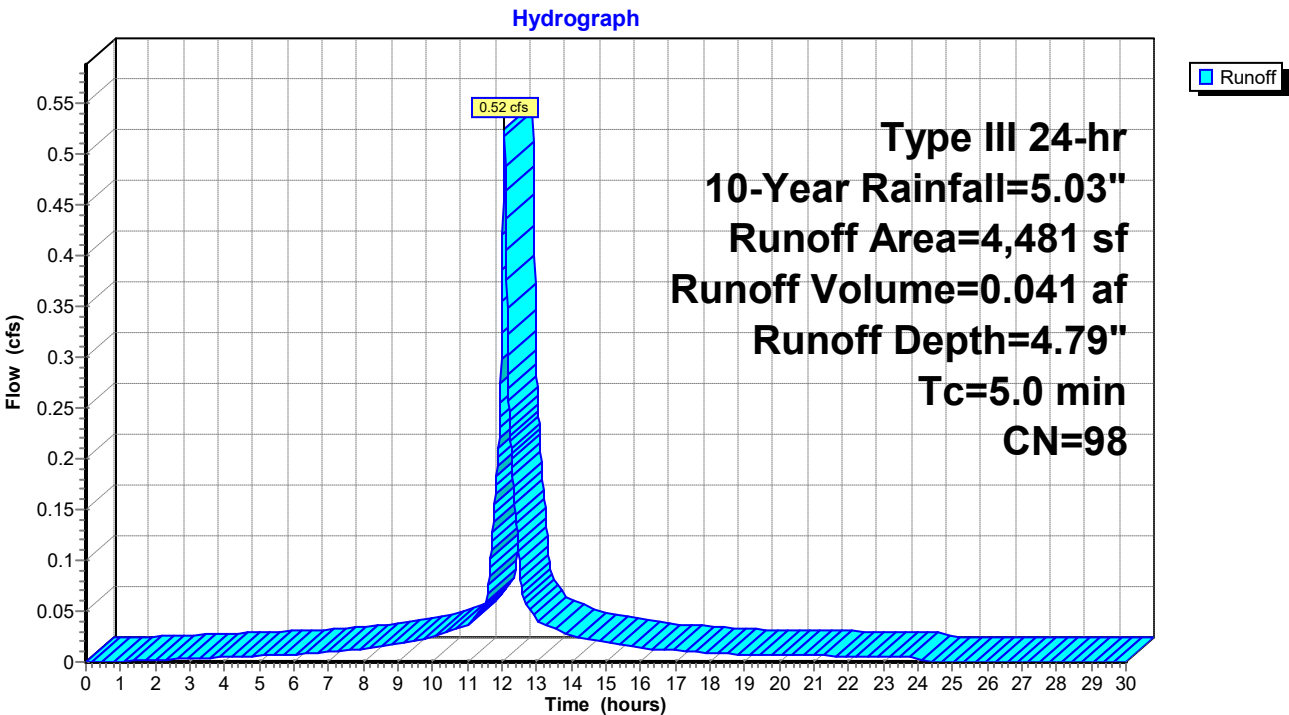
Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.041 af, Depth= 4.79"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.03"

Area (sf)	CN	Description
4,481	98	Roofs, HSG B
4,481		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Roofs to Underground Infiltration

Subcatchment P 2: Proposed Area 2



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 10-Year Rainfall=5.03"*

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Hydrograph for Subcatchment P 2: Proposed Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	5.03	4.79	0.00
0.50	0.03	0.00	0.00	26.50	5.03	4.79	0.00
1.00	0.05	0.00	0.00	27.00	5.03	4.79	0.00
1.50	0.08	0.01	0.00	27.50	5.03	4.79	0.00
2.00	0.10	0.01	0.00	28.00	5.03	4.79	0.00
2.50	0.13	0.03	0.00	28.50	5.03	4.79	0.00
3.00	0.15	0.04	0.00	29.00	5.03	4.79	0.00
3.50	0.18	0.06	0.00	29.50	5.03	4.79	0.00
4.00	0.22	0.08	0.00	30.00	5.03	4.79	0.00
4.50	0.25	0.11	0.01				
5.00	0.29	0.13	0.01				
5.50	0.32	0.16	0.01				
6.00	0.36	0.20	0.01				
6.50	0.41	0.23	0.01				
7.00	0.46	0.28	0.01				
7.50	0.51	0.33	0.01				
8.00	0.57	0.39	0.01				
8.50	0.65	0.45	0.02				
9.00	0.73	0.53	0.02				
9.50	0.83	0.63	0.02				
10.00	0.95	0.74	0.02				
10.50	1.09	0.88	0.03				
11.00	1.26	1.04	0.04				
11.50	1.50	1.28	0.06				
12.00	2.51	2.29	0.35				
12.50	3.53	3.30	0.10				
13.00	3.77	3.54	0.04				
13.50	3.94	3.71	0.03				
14.00	4.08	3.84	0.03				
14.50	4.20	3.96	0.02				
15.00	4.30	4.06	0.02				
15.50	4.38	4.15	0.02				
16.00	4.46	4.22	0.01				
16.50	4.52	4.28	0.01				
17.00	4.57	4.34	0.01				
17.50	4.62	4.39	0.01				
18.00	4.67	4.43	0.01				
18.50	4.71	4.47	0.01				
19.00	4.74	4.51	0.01				
19.50	4.78	4.54	0.01				
20.00	4.81	4.58	0.01				
20.50	4.85	4.61	0.01				
21.00	4.88	4.64	0.01				
21.50	4.91	4.67	0.01				
22.00	4.93	4.70	0.01				
22.50	4.96	4.72	0.01				
23.00	4.98	4.75	0.01				
23.50	5.01	4.77	0.00				
24.00	5.03	4.79	0.00				
24.50	5.03	4.79	0.00				
25.00	5.03	4.79	0.00				
25.50	5.03	4.79	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 10-Year Rainfall=5.03"

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Summary for Subcatchment P3: Proposed Area 3

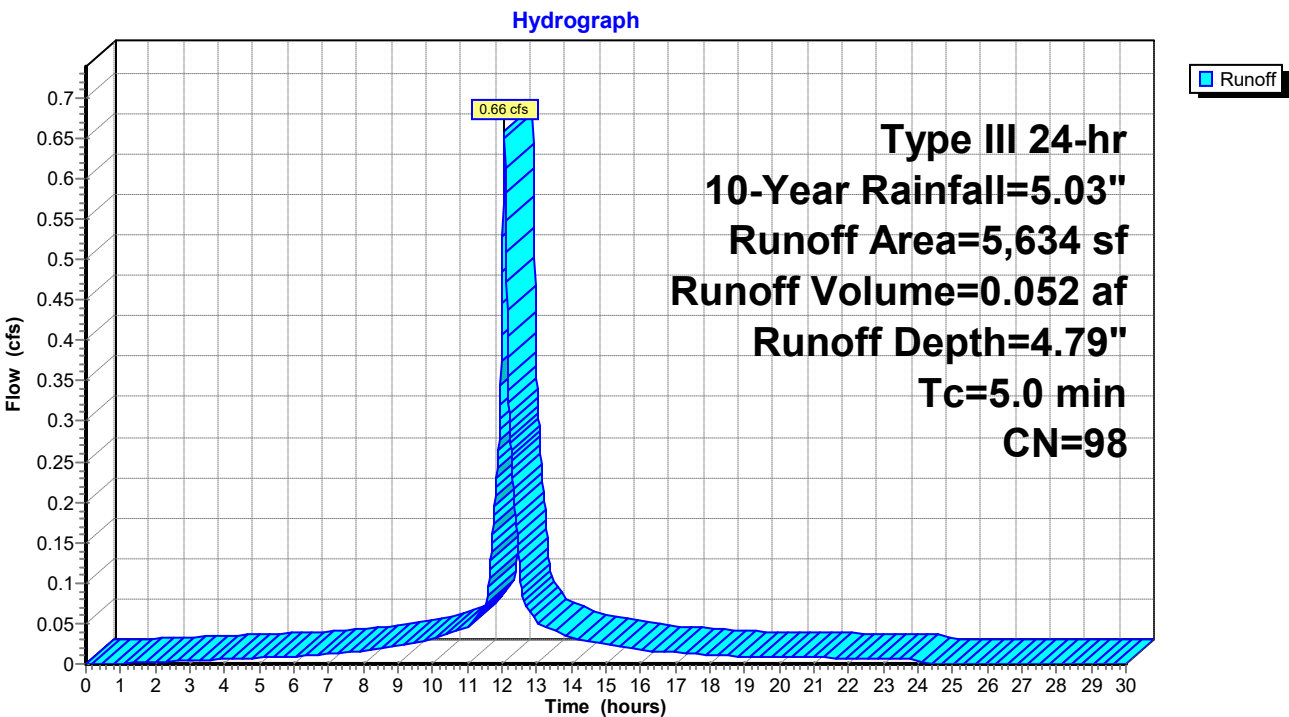
Runoff = 0.66 cfs @ 12.07 hrs, Volume= 0.052 af, Depth= 4.79"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-Year Rainfall=5.03"

Area (sf)	CN	Description
5,634	98	Paved parking, HSG B
5,634		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Parking area to Catch Basin

Subcatchment P3: Proposed Area 3



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 10-Year Rainfall=5.03"*

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Hydrograph for Subcatchment P3: Proposed Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	5.03	4.79	0.00
0.50	0.03	0.00	0.00	26.50	5.03	4.79	0.00
1.00	0.05	0.00	0.00	27.00	5.03	4.79	0.00
1.50	0.08	0.01	0.00	27.50	5.03	4.79	0.00
2.00	0.10	0.01	0.00	28.00	5.03	4.79	0.00
2.50	0.13	0.03	0.00	28.50	5.03	4.79	0.00
3.00	0.15	0.04	0.00	29.00	5.03	4.79	0.00
3.50	0.18	0.06	0.01	29.50	5.03	4.79	0.00
4.00	0.22	0.08	0.01	30.00	5.03	4.79	0.00
4.50	0.25	0.11	0.01				
5.00	0.29	0.13	0.01				
5.50	0.32	0.16	0.01				
6.00	0.36	0.20	0.01				
6.50	0.41	0.23	0.01				
7.00	0.46	0.28	0.01				
7.50	0.51	0.33	0.01				
8.00	0.57	0.39	0.02				
8.50	0.65	0.45	0.02				
9.00	0.73	0.53	0.02				
9.50	0.83	0.63	0.03				
10.00	0.95	0.74	0.03				
10.50	1.09	0.88	0.04				
11.00	1.26	1.04	0.05				
11.50	1.50	1.28	0.07				
12.00	2.51	2.29	0.45				
12.50	3.53	3.30	0.12				
13.00	3.77	3.54	0.05				
13.50	3.94	3.71	0.04				
14.00	4.08	3.84	0.03				
14.50	4.20	3.96	0.03				
15.00	4.30	4.06	0.03				
15.50	4.38	4.15	0.02				
16.00	4.46	4.22	0.02				
16.50	4.52	4.28	0.02				
17.00	4.57	4.34	0.01				
17.50	4.62	4.39	0.01				
18.00	4.67	4.43	0.01				
18.50	4.71	4.47	0.01				
19.00	4.74	4.51	0.01				
19.50	4.78	4.54	0.01				
20.00	4.81	4.58	0.01				
20.50	4.85	4.61	0.01				
21.00	4.88	4.64	0.01				
21.50	4.91	4.67	0.01				
22.00	4.93	4.70	0.01				
22.50	4.96	4.72	0.01				
23.00	4.98	4.75	0.01				
23.50	5.01	4.77	0.01				
24.00	5.03	4.79	0.01				
24.50	5.03	4.79	0.00				
25.00	5.03	4.79	0.00				
25.50	5.03	4.79	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 10-Year Rainfall=5.03"

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Summary for Pond 1P: 4' x 4' Infiltration Galleries

Inflow Area = 0.232 ac, 100.00% Impervious, Inflow Depth = 4.79" for 10-Year event
Inflow = 1.18 cfs @ 12.07 hrs, Volume= 0.093 af
Outflow = 0.61 cfs @ 12.19 hrs, Volume= 0.093 af, Atten= 49%, Lag= 7.2 min
Discarded = 0.05 cfs @ 10.07 hrs, Volume= 0.054 af
Primary = 0.55 cfs @ 12.19 hrs, Volume= 0.039 af
Routed to Link AP 2 : Analysis Point at Easement
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link AP 2 : Analysis Point at Easement

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Peak Elev= 72.69' @ 12.19 hrs Surf.Area= 395 sf Storage= 625 cf

Plug-Flow detention time= 14.8 min calculated for 0.093 af (100% of inflow)
Center-of-Mass det. time= 14.8 min (761.8 - 747.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	70.00'	525 cf	15.20'W x 26.00'L x 6.00'H Field A 2,371 cf Overall - 1,060 cf Embedded = 1,311 cf x 40.0% Voids
#2A	71.00'	798 cf	Concrete Galley 4x4x4 x 18 Inside #1 Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf 18 Chambers in 3 Rows
1,323 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices										
#1	Primary	70.80'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads 4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32										
#2	Secondary	75.00'											
#3	Discarded	70.00'	6.000 in/hr Exfiltration over Surface area										

Discarded OutFlow Max=0.05 cfs @ 10.07 hrs HW=70.06' (Free Discharge)
↑ **3=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.55 cfs @ 12.19 hrs HW=72.69' (Free Discharge)
↑ **1=Orifice/Grate** (Orifice Controls 0.55 cfs @ 6.33 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=70.00' (Free Discharge)
↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: 4' x 4' Infiltration Galleries - Chamber Wizard Field A

Chamber Model = Concrete Galley 4x4x4 (Concrete Galley, UCPI 4x4x4 Galley or equivalent)

Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf

Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf

6 Chambers/Row x 4.00' Long = 24.00' Row Length +12.0" End Stone x 2 = 26.00' Base Length

3 Rows x 52.8" Wide + 12.0" Side Stone x 2 = 15.20' Base Width

12.0" Stone Base + 48.0" Chamber Height + 12.0" Stone Cover = 6.00' Field Height

18 Chambers x 44.3 cf = 798.2 cf Chamber Storage

18 Chambers x 58.9 cf = 1,059.8 cf Displacement

2,371.2 cf Field - 1,059.8 cf Chambers = 1,311.4 cf Stone x 40.0% Voids = 524.6 cf Stone Storage

Chamber Storage + Stone Storage = 1,322.8 cf = 0.030 af

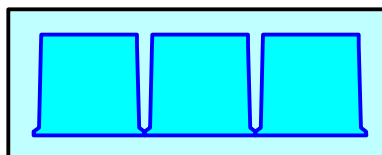
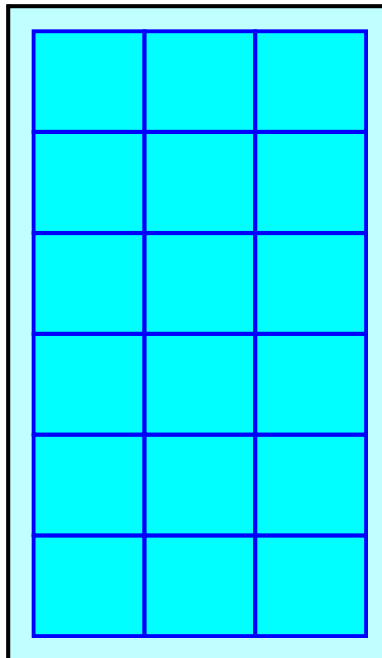
Overall Storage Efficiency = 55.8%

Overall System Size = 26.00' x 15.20' x 6.00'

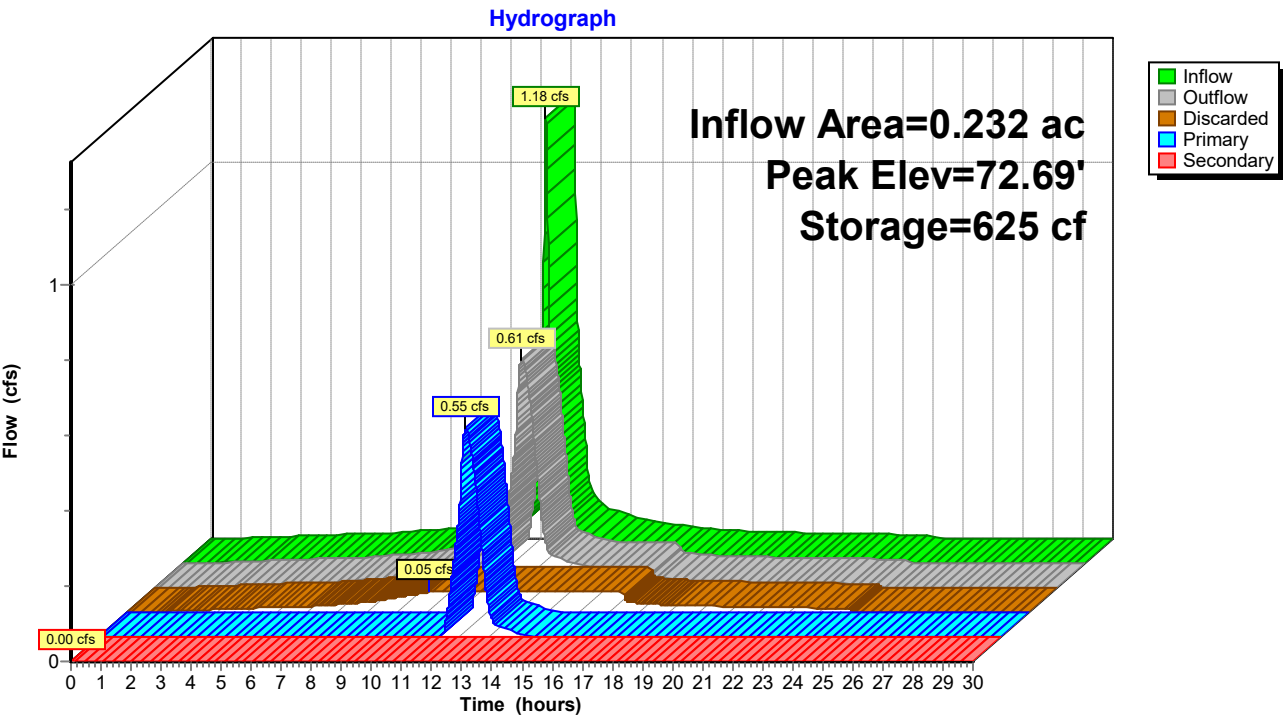
18 Chambers

87.8 cy Field

48.6 cy Stone



Pond 1P: 4' x 4' Infiltration Galleries



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 10-Year Rainfall=5.03"*

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Hydrograph for Pond 1P: 4' x 4' Infiltration Galleries

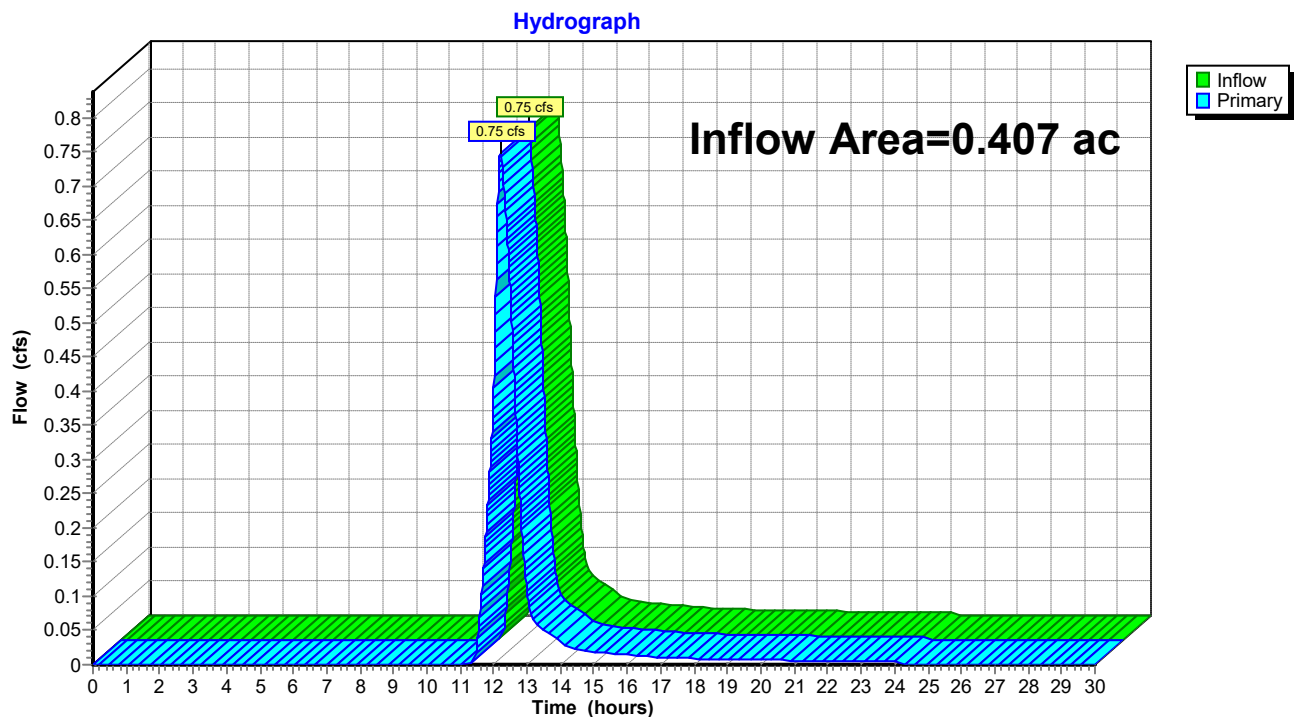
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0	70.00	0.00	0.00	0.00	0.00
1.00	0.00	0	70.00	0.00	0.00	0.00	0.00
2.00	0.00	1	70.00	0.00	0.00	0.00	0.00
3.00	0.01	1	70.01	0.01	0.01	0.00	0.00
4.00	0.01	2	70.01	0.01	0.01	0.00	0.00
5.00	0.01	2	70.01	0.01	0.01	0.00	0.00
6.00	0.02	3	70.02	0.02	0.02	0.00	0.00
7.00	0.02	4	70.02	0.02	0.02	0.00	0.00
8.00	0.03	5	70.03	0.03	0.03	0.00	0.00
9.00	0.04	7	70.04	0.04	0.04	0.00	0.00
10.00	0.05	9	70.06	0.05	0.05	0.00	0.00
11.00	0.08	56	70.35	0.05	0.05	0.00	0.00
12.00	0.80	337	71.65	0.40	0.05	0.35	0.00
13.00	0.09	153	70.97	0.12	0.05	0.06	0.00
14.00	0.06	135	70.85	0.06	0.05	0.01	0.00
15.00	0.05	117	70.74	0.05	0.05	0.00	0.00
16.00	0.03	57	70.36	0.05	0.05	0.00	0.00
17.00	0.03	4	70.03	0.03	0.03	0.00	0.00
18.00	0.02	3	70.02	0.02	0.02	0.00	0.00
19.00	0.02	3	70.02	0.02	0.02	0.00	0.00
20.00	0.02	3	70.02	0.02	0.02	0.00	0.00
21.00	0.01	2	70.02	0.01	0.01	0.00	0.00
22.00	0.01	2	70.01	0.01	0.01	0.00	0.00
23.00	0.01	2	70.01	0.01	0.01	0.00	0.00
24.00	0.01	2	70.01	0.01	0.01	0.00	0.00
25.00	0.00	0	70.00	0.00	0.00	0.00	0.00
26.00	0.00	0	70.00	0.00	0.00	0.00	0.00
27.00	0.00	0	70.00	0.00	0.00	0.00	0.00
28.00	0.00	0	70.00	0.00	0.00	0.00	0.00
29.00	0.00	0	70.00	0.00	0.00	0.00	0.00
30.00	0.00	0	70.00	0.00	0.00	0.00	0.00

Summary for Link AP 2: Analysis Point at Easement

Inflow Area = 0.407 ac, 57.12% Impervious, Inflow Depth = 1.75" for 10-Year event
Inflow = 0.75 cfs @ 12.21 hrs, Volume= 0.059 af
Primary = 0.75 cfs @ 12.21 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 3L

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Link AP 2: Analysis Point at Easement



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 10-Year Rainfall=5.03"*

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Hydrograph for Link AP 2: Analysis Point at Easement

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	27.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	28.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00	29.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	29.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00				
5.00	0.00	0.00	0.00				
5.50	0.00	0.00	0.00				
6.00	0.00	0.00	0.00				
6.50	0.00	0.00	0.00				
7.00	0.00	0.00	0.00				
7.50	0.00	0.00	0.00				
8.00	0.00	0.00	0.00				
8.50	0.00	0.00	0.00				
9.00	0.00	0.00	0.00				
9.50	0.00	0.00	0.00				
10.00	0.00	0.00	0.00				
10.50	0.00	0.00	0.00				
11.00	0.00	0.00	0.00				
11.50	0.02	0.00	0.02				
12.00	0.41	0.00	0.41				
12.50	0.54	0.00	0.54				
13.00	0.10	0.00	0.10				
13.50	0.05	0.00	0.05				
14.00	0.03	0.00	0.03				
14.50	0.02	0.00	0.02				
15.00	0.02	0.00	0.02				
15.50	0.02	0.00	0.02				
16.00	0.01	0.00	0.01				
16.50	0.01	0.00	0.01				
17.00	0.01	0.00	0.01				
17.50	0.01	0.00	0.01				
18.00	0.01	0.00	0.01				
18.50	0.01	0.00	0.01				
19.00	0.01	0.00	0.01				
19.50	0.01	0.00	0.01				
20.00	0.01	0.00	0.01				
20.50	0.01	0.00	0.01				
21.00	0.01	0.00	0.01				
21.50	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
22.50	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
23.50	0.00	0.00	0.00				
24.00	0.00	0.00	0.00				
24.50	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
25.50	0.00	0.00	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 25-Year Rainfall=6.30"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P 1: Proposed Area 1

Runoff Area=7,594 sf 0.00% Impervious Runoff Depth=2.21"
Flow Length=195' Tc=14.3 min CN=61 Runoff=0.33 cfs 0.032 af

Subcatchment P 2: Proposed Area 2

Runoff Area=4,481 sf 100.00% Impervious Runoff Depth=6.06"
Tc=5.0 min CN=98 Runoff=0.66 cfs 0.052 af

Subcatchment P3: Proposed Area 3

Runoff Area=5,634 sf 100.00% Impervious Runoff Depth=6.06"
Tc=5.0 min CN=98 Runoff=0.83 cfs 0.065 af

Pond 1P: 4' x 4' Infiltration Galleries

Peak Elev=73.39' Storage=817 cf Inflow=1.49 cfs 0.117 af
Discarded=0.05 cfs 0.061 af Primary=0.65 cfs 0.056 af Secondary=0.00 cfs 0.000 af Outflow=0.71 cfs 0.117 af

Link AP 2: Analysis Point at Easement

Inflow=0.99 cfs 0.088 af
Primary=0.99 cfs 0.088 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.149 af Average Runoff Depth = 4.41"
42.88% Pervious = 0.174 ac 57.12% Impervious = 0.232 ac

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 25-Year Rainfall=6.30"

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Summary for Subcatchment P 1: Proposed Area 1

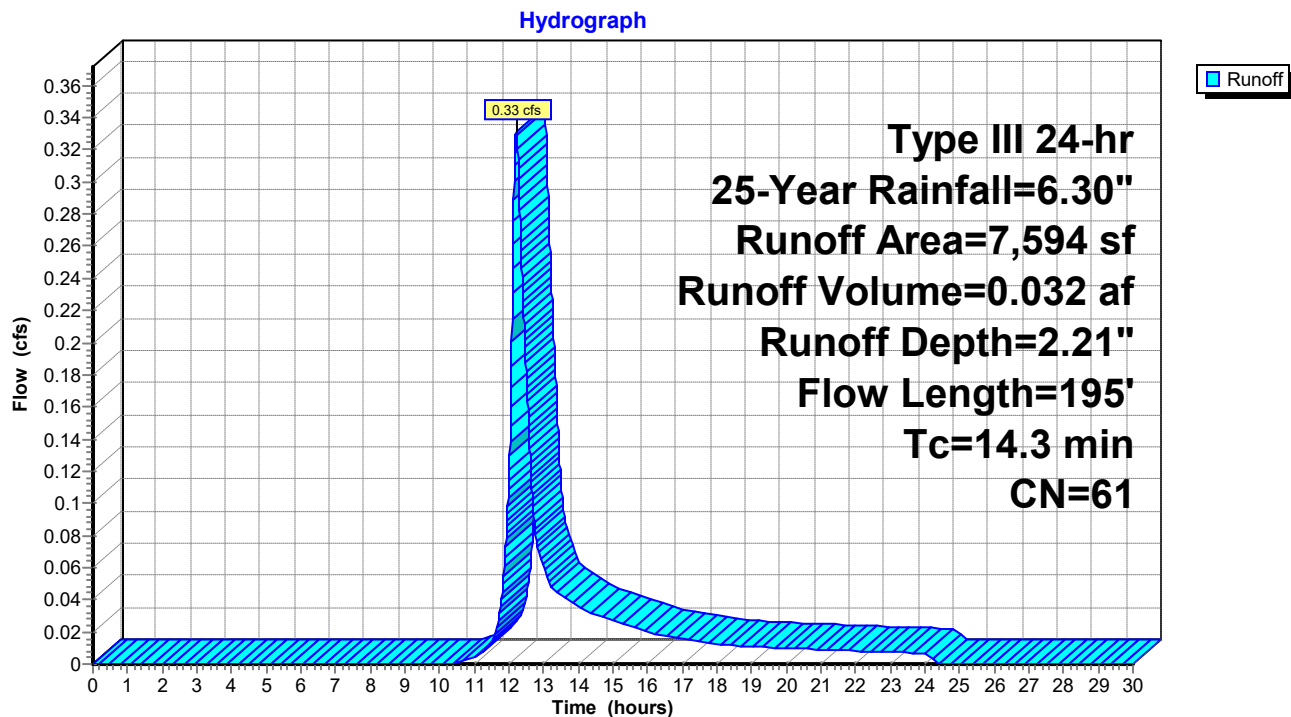
Runoff = 0.33 cfs @ 12.21 hrs, Volume= 0.032 af, Depth= 2.21"
Routed to Link AP 2 : Analysis Point at Easement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.30"

Area (sf)	CN	Description
7,594	61	>75% Grass cover, Good, HSG B
7,594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	100	0.0560	0.12		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Bermuda n= 0.410 P2= 3.39"
0.2	95	0.2253	7.12		Shallow Concentrated Flow, Lawn Area/ Swale/ Easement Area Grassed Waterway Kv= 15.0 fps
14.3	195	Total			

Subcatchment P 1: Proposed Area 1



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 25-Year Rainfall=6.30"*

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Hydrograph for Subcatchment P 1: Proposed Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	6.30	2.21	0.00
0.50	0.03	0.00	0.00	26.50	6.30	2.21	0.00
1.00	0.06	0.00	0.00	27.00	6.30	2.21	0.00
1.50	0.09	0.00	0.00	27.50	6.30	2.21	0.00
2.00	0.13	0.00	0.00	28.00	6.30	2.21	0.00
2.50	0.16	0.00	0.00	28.50	6.30	2.21	0.00
3.00	0.19	0.00	0.00	29.00	6.30	2.21	0.00
3.50	0.23	0.00	0.00	29.50	6.30	2.21	0.00
4.00	0.27	0.00	0.00	30.00	6.30	2.21	0.00
4.50	0.31	0.00	0.00				
5.00	0.36	0.00	0.00				
5.50	0.40	0.00	0.00				
6.00	0.45	0.00	0.00				
6.50	0.51	0.00	0.00				
7.00	0.57	0.00	0.00				
7.50	0.64	0.00	0.00				
8.00	0.72	0.00	0.00				
8.50	0.81	0.00	0.00				
9.00	0.92	0.00	0.00				
9.50	1.05	0.00	0.00				
10.00	1.19	0.00	0.00				
10.50	1.36	0.00	0.00				
11.00	1.58	0.01	0.00				
11.50	1.88	0.05	0.01				
12.00	3.15	0.42	0.11				
12.50	4.42	1.04	0.18				
13.00	4.72	1.21	0.06				
13.50	4.94	1.33	0.04				
14.00	5.11	1.44	0.04				
14.50	5.25	1.52	0.03				
15.00	5.38	1.60	0.03				
15.50	5.49	1.67	0.02				
16.00	5.58	1.73	0.02				
16.50	5.66	1.78	0.02				
17.00	5.73	1.83	0.02				
17.50	5.79	1.87	0.01				
18.00	5.85	1.90	0.01				
18.50	5.90	1.94	0.01				
19.00	5.94	1.97	0.01				
19.50	5.99	2.00	0.01				
20.00	6.03	2.03	0.01				
20.50	6.07	2.05	0.01				
21.00	6.11	2.08	0.01				
21.50	6.14	2.10	0.01				
22.00	6.18	2.13	0.01				
22.50	6.21	2.15	0.01				
23.00	6.24	2.17	0.01				
23.50	6.27	2.19	0.01				
24.00	6.30	2.21	0.01				
24.50	6.30	2.21	0.00				
25.00	6.30	2.21	0.00				
25.50	6.30	2.21	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 25-Year Rainfall=6.30"

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Summary for Subcatchment P 2: Proposed Area 2

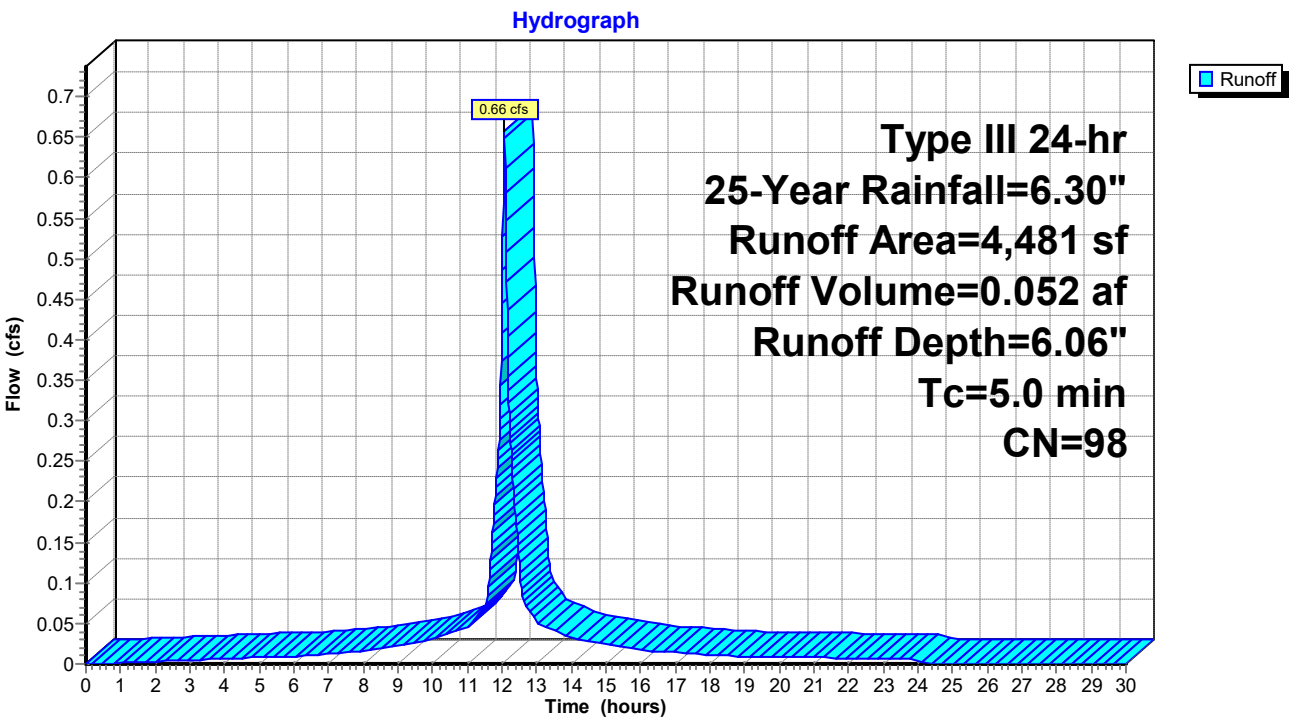
Runoff = 0.66 cfs @ 12.07 hrs, Volume= 0.052 af, Depth= 6.06"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.30"

Area (sf)	CN	Description
4,481	98	Roofs, HSG B
4,481		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Roofs to Underground Infiltration

Subcatchment P 2: Proposed Area 2



Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 25-Year Rainfall=6.30"

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Hydrograph for Subcatchment P 2: Proposed Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	6.30	6.06	0.00
0.50	0.03	0.00	0.00	26.50	6.30	6.06	0.00
1.00	0.06	0.00	0.00	27.00	6.30	6.06	0.00
1.50	0.09	0.01	0.00	27.50	6.30	6.06	0.00
2.00	0.13	0.03	0.00	28.00	6.30	6.06	0.00
2.50	0.16	0.04	0.00	28.50	6.30	6.06	0.00
3.00	0.19	0.07	0.00	29.00	6.30	6.06	0.00
3.50	0.23	0.09	0.01	29.50	6.30	6.06	0.00
4.00	0.27	0.12	0.01	30.00	6.30	6.06	0.00
4.50	0.31	0.16	0.01				
5.00	0.36	0.19	0.01				
5.50	0.40	0.23	0.01				
6.00	0.45	0.28	0.01				
6.50	0.51	0.33	0.01				
7.00	0.57	0.38	0.01				
7.50	0.64	0.45	0.01				
8.00	0.72	0.52	0.02				
8.50	0.81	0.61	0.02				
9.00	0.92	0.71	0.02				
9.50	1.05	0.83	0.03				
10.00	1.19	0.98	0.03				
10.50	1.36	1.15	0.04				
11.00	1.58	1.35	0.05				
11.50	1.88	1.65	0.07				
12.00	3.15	2.92	0.45				
12.50	4.42	4.19	0.12				
13.00	4.72	4.49	0.05				
13.50	4.94	4.70	0.04				
14.00	5.11	4.87	0.03				
14.50	5.25	5.02	0.03				
15.00	5.38	5.14	0.03				
15.50	5.49	5.25	0.02				
16.00	5.58	5.34	0.02				
16.50	5.66	5.42	0.02				
17.00	5.73	5.49	0.01				
17.50	5.79	5.55	0.01				
18.00	5.85	5.61	0.01				
18.50	5.90	5.66	0.01				
19.00	5.94	5.70	0.01				
19.50	5.99	5.75	0.01				
20.00	6.03	5.79	0.01				
20.50	6.07	5.83	0.01				
21.00	6.11	5.87	0.01				
21.50	6.14	5.91	0.01				
22.00	6.18	5.94	0.01				
22.50	6.21	5.97	0.01				
23.00	6.24	6.00	0.01				
23.50	6.27	6.03	0.01				
24.00	6.30	6.06	0.01				
24.50	6.30	6.06	0.00				
25.00	6.30	6.06	0.00				
25.50	6.30	6.06	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 25-Year Rainfall=6.30"

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Summary for Subcatchment P3: Proposed Area 3

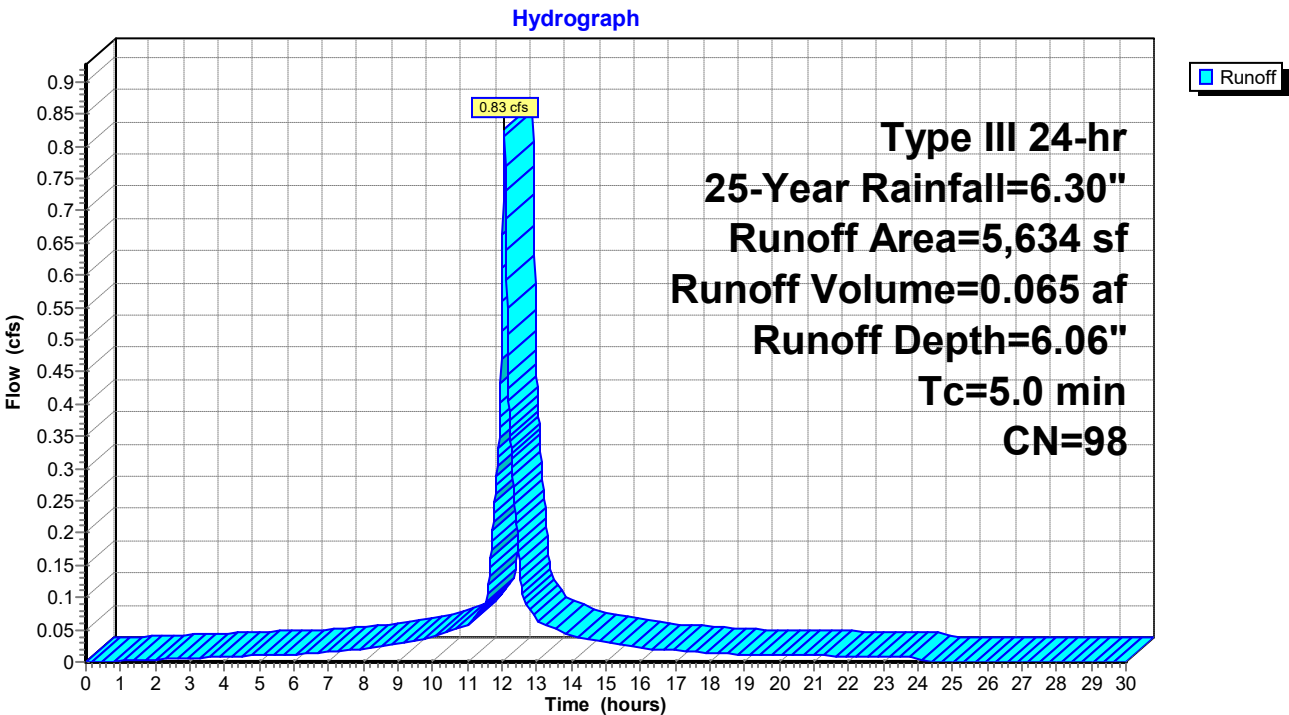
Runoff = 0.83 cfs @ 12.07 hrs, Volume= 0.065 af, Depth= 6.06"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-Year Rainfall=6.30"

Area (sf)	CN	Description
5,634	98	Paved parking, HSG B
5,634		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Parking area to Catch Basin

Subcatchment P3: Proposed Area 3



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 25-Year Rainfall=6.30"*

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Hydrograph for Subcatchment P3: Proposed Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	6.30	6.06	0.00
0.50	0.03	0.00	0.00	26.50	6.30	6.06	0.00
1.00	0.06	0.00	0.00	27.00	6.30	6.06	0.00
1.50	0.09	0.01	0.00	27.50	6.30	6.06	0.00
2.00	0.13	0.03	0.00	28.00	6.30	6.06	0.00
2.50	0.16	0.04	0.01	28.50	6.30	6.06	0.00
3.00	0.19	0.07	0.01	29.00	6.30	6.06	0.00
3.50	0.23	0.09	0.01	29.50	6.30	6.06	0.00
4.00	0.27	0.12	0.01	30.00	6.30	6.06	0.00
4.50	0.31	0.16	0.01				
5.00	0.36	0.19	0.01				
5.50	0.40	0.23	0.01				
6.00	0.45	0.28	0.01				
6.50	0.51	0.33	0.01				
7.00	0.57	0.38	0.02				
7.50	0.64	0.45	0.02				
8.00	0.72	0.52	0.02				
8.50	0.81	0.61	0.02				
9.00	0.92	0.71	0.03				
9.50	1.05	0.83	0.03				
10.00	1.19	0.98	0.04				
10.50	1.36	1.15	0.05				
11.00	1.58	1.35	0.06				
11.50	1.88	1.65	0.09				
12.00	3.15	2.92	0.56				
12.50	4.42	4.19	0.15				
13.00	4.72	4.49	0.07				
13.50	4.94	4.70	0.05				
14.00	5.11	4.87	0.04				
14.50	5.25	5.02	0.04				
15.00	5.38	5.14	0.03				
15.50	5.49	5.25	0.03				
16.00	5.58	5.34	0.02				
16.50	5.66	5.42	0.02				
17.00	5.73	5.49	0.02				
17.50	5.79	5.55	0.02				
18.00	5.85	5.61	0.01				
18.50	5.90	5.66	0.01				
19.00	5.94	5.70	0.01				
19.50	5.99	5.75	0.01				
20.00	6.03	5.79	0.01				
20.50	6.07	5.83	0.01				
21.00	6.11	5.87	0.01				
21.50	6.14	5.91	0.01				
22.00	6.18	5.94	0.01				
22.50	6.21	5.97	0.01				
23.00	6.24	6.00	0.01				
23.50	6.27	6.03	0.01				
24.00	6.30	6.06	0.01				
24.50	6.30	6.06	0.00				
25.00	6.30	6.06	0.00				
25.50	6.30	6.06	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 25-Year Rainfall=6.30"

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Summary for Pond 1P: 4' x 4' Infiltration Galleries

Inflow Area = 0.232 ac, 100.00% Impervious, Inflow Depth = 6.06" for 25-Year event
Inflow = 1.49 cfs @ 12.07 hrs, Volume= 0.117 af
Outflow = 0.71 cfs @ 12.21 hrs, Volume= 0.117 af, Atten= 52%, Lag= 8.1 min
Discarded = 0.05 cfs @ 9.22 hrs, Volume= 0.061 af
Primary = 0.65 cfs @ 12.21 hrs, Volume= 0.056 af
Routed to Link AP 2 : Analysis Point at Easement
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Link AP 2 : Analysis Point at Easement

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Peak Elev= 73.39' @ 12.21 hrs Surf.Area= 395 sf Storage= 817 cf

Plug-Flow detention time= 15.9 min calculated for 0.117 af (100% of inflow)
Center-of-Mass det. time= 15.9 min (759.4 - 743.5)

Volume	Invert	Avail.Storage	Storage Description
#1A	70.00'	525 cf	15.20'W x 26.00'L x 6.00'H Field A 2,371 cf Overall - 1,060 cf Embedded = 1,311 cf x 40.0% Voids
#2A	71.00'	798 cf	Concrete Galley 4x4x4 x 18 Inside #1 Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf 18 Chambers in 3 Rows
1,323 cf			Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	70.80'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads 4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Secondary	75.00'	
#3	Discarded	70.00'	6.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.05 cfs @ 9.22 hrs HW=70.06' (Free Discharge)
↑ **3=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.65 cfs @ 12.21 hrs HW=73.39' (Free Discharge)
↑ **1=Orifice/Grate** (Orifice Controls 0.65 cfs @ 7.50 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=70.00' (Free Discharge)
↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: 4' x 4' Infiltration Galleries - Chamber Wizard Field A

Chamber Model = Concrete Galley 4x4x4 (Concrete Galley, UCPI 4x4x4 Galley or equivalent)

Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf

Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf

6 Chambers/Row x 4.00' Long = 24.00' Row Length +12.0" End Stone x 2 = 26.00' Base Length

3 Rows x 52.8" Wide + 12.0" Side Stone x 2 = 15.20' Base Width

12.0" Stone Base + 48.0" Chamber Height + 12.0" Stone Cover = 6.00' Field Height

18 Chambers x 44.3 cf = 798.2 cf Chamber Storage

18 Chambers x 58.9 cf = 1,059.8 cf Displacement

2,371.2 cf Field - 1,059.8 cf Chambers = 1,311.4 cf Stone x 40.0% Voids = 524.6 cf Stone Storage

Chamber Storage + Stone Storage = 1,322.8 cf = 0.030 af

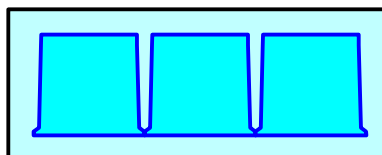
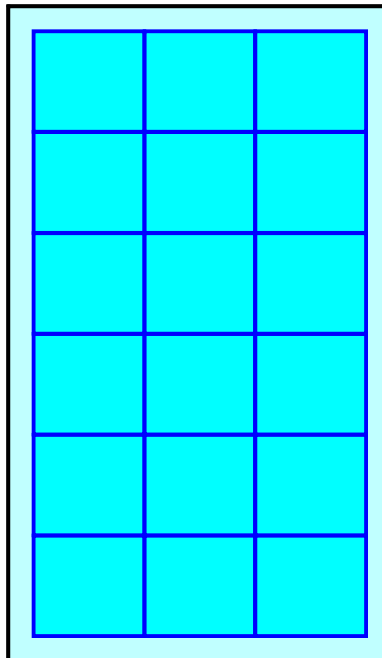
Overall Storage Efficiency = 55.8%

Overall System Size = 26.00' x 15.20' x 6.00'

18 Chambers

87.8 cy Field

48.6 cy Stone



Proposed Stormwater Analysis 2026 July13

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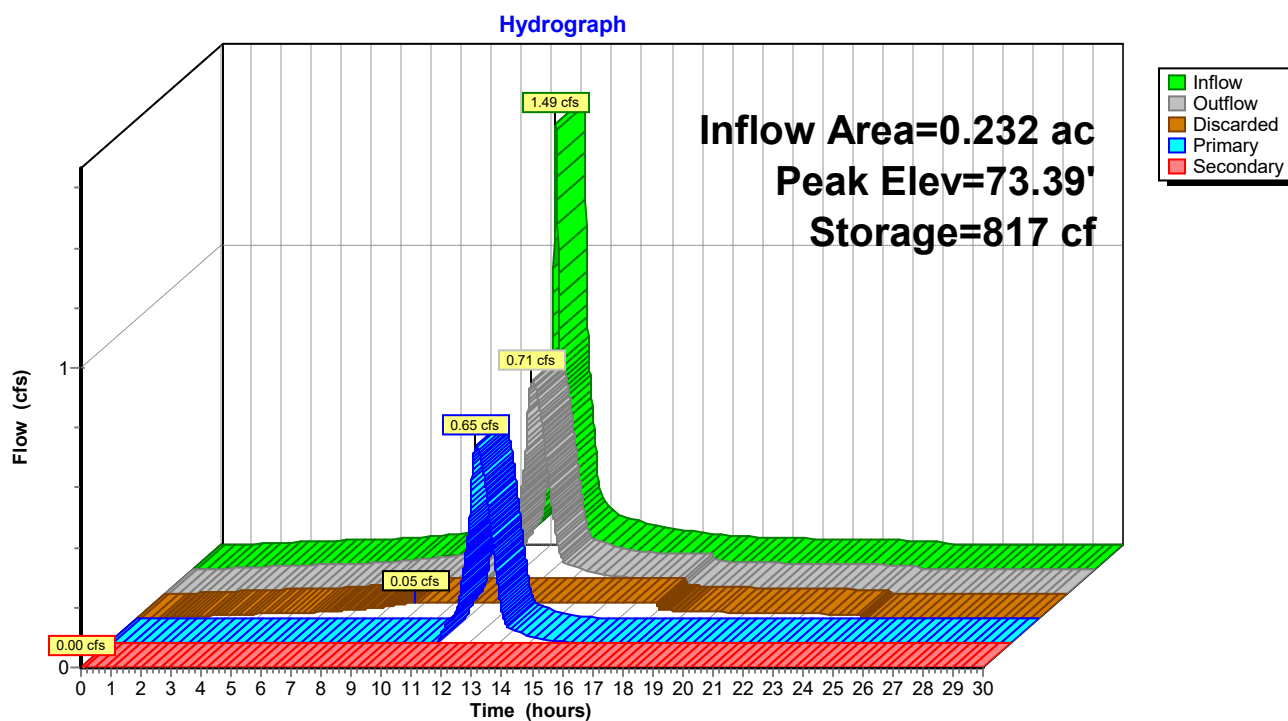
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Type III 24-hr 25-Year Rainfall=6.30"

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Pond 1P: 4' x 4' Infiltration Galleries



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 25-Year Rainfall=6.30"*

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Hydrograph for Pond 1P: 4' x 4' Infiltration Galleries

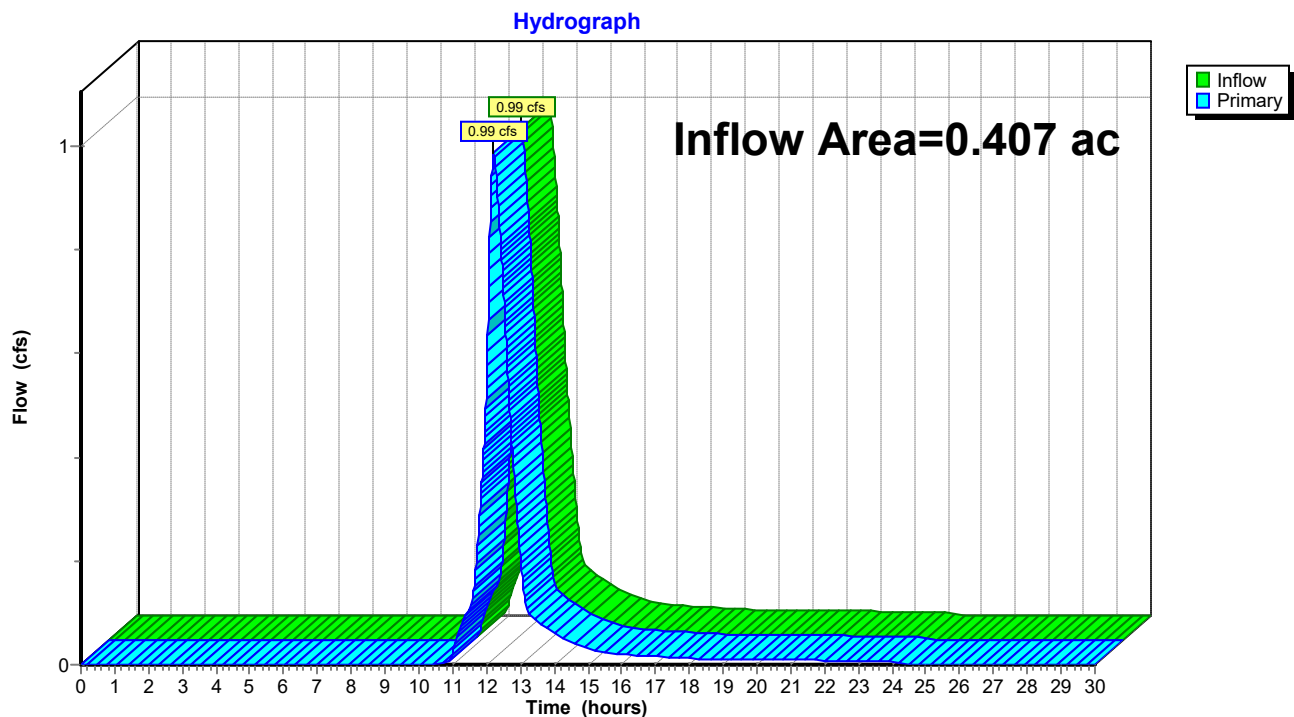
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0	70.00	0.00	0.00	0.00	0.00
1.00	0.00	0	70.00	0.00	0.00	0.00	0.00
2.00	0.01	1	70.01	0.01	0.01	0.00	0.00
3.00	0.01	2	70.01	0.01	0.01	0.00	0.00
4.00	0.01	3	70.02	0.01	0.01	0.00	0.00
5.00	0.02	3	70.02	0.02	0.02	0.00	0.00
6.00	0.02	4	70.02	0.02	0.02	0.00	0.00
7.00	0.03	5	70.03	0.03	0.03	0.00	0.00
8.00	0.04	6	70.04	0.04	0.04	0.00	0.00
9.00	0.05	9	70.06	0.05	0.05	0.00	0.00
10.00	0.07	31	70.20	0.05	0.05	0.00	0.00
11.00	0.10	140	70.88	0.07	0.05	0.02	0.00
12.00	1.00	421	71.95	0.47	0.05	0.42	0.00
13.00	0.12	183	71.09	0.20	0.05	0.15	0.00
14.00	0.07	142	70.90	0.08	0.05	0.02	0.00
15.00	0.06	133	70.84	0.06	0.05	0.00	0.00
16.00	0.04	105	70.66	0.05	0.05	0.00	0.00
17.00	0.03	34	70.22	0.05	0.05	0.00	0.00
18.00	0.02	4	70.03	0.02	0.02	0.00	0.00
19.00	0.02	4	70.02	0.02	0.02	0.00	0.00
20.00	0.02	3	70.02	0.02	0.02	0.00	0.00
21.00	0.02	3	70.02	0.02	0.02	0.00	0.00
22.00	0.02	3	70.02	0.02	0.02	0.00	0.00
23.00	0.01	2	70.02	0.01	0.01	0.00	0.00
24.00	0.01	2	70.01	0.01	0.01	0.00	0.00
25.00	0.00	0	70.00	0.00	0.00	0.00	0.00
26.00	0.00	0	70.00	0.00	0.00	0.00	0.00
27.00	0.00	0	70.00	0.00	0.00	0.00	0.00
28.00	0.00	0	70.00	0.00	0.00	0.00	0.00
29.00	0.00	0	70.00	0.00	0.00	0.00	0.00
30.00	0.00	0	70.00	0.00	0.00	0.00	0.00

Summary for Link AP 2: Analysis Point at Easement

Inflow Area = 0.407 ac, 57.12% Impervious, Inflow Depth = 2.59" for 25-Year event
Inflow = 0.99 cfs @ 12.21 hrs, Volume= 0.088 af
Primary = 0.99 cfs @ 12.21 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 3L

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Link AP 2: Analysis Point at Easement



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 25-Year Rainfall=6.30"*

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Hydrograph for Link AP 2: Analysis Point at Easement

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	27.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	28.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00	29.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	29.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00				
5.00	0.00	0.00	0.00				
5.50	0.00	0.00	0.00				
6.00	0.00	0.00	0.00				
6.50	0.00	0.00	0.00				
7.00	0.00	0.00	0.00				
7.50	0.00	0.00	0.00				
8.00	0.00	0.00	0.00				
8.50	0.00	0.00	0.00				
9.00	0.00	0.00	0.00				
9.50	0.00	0.00	0.00				
10.00	0.00	0.00	0.00				
10.50	0.00	0.00	0.00				
11.00	0.02	0.00	0.02				
11.50	0.11	0.00	0.11				
12.00	0.53	0.00	0.53				
12.50	0.72	0.00	0.72				
13.00	0.21	0.00	0.21				
13.50	0.08	0.00	0.08				
14.00	0.06	0.00	0.06				
14.50	0.04	0.00	0.04				
15.00	0.03	0.00	0.03				
15.50	0.02	0.00	0.02				
16.00	0.02	0.00	0.02				
16.50	0.02	0.00	0.02				
17.00	0.02	0.00	0.02				
17.50	0.01	0.00	0.01				
18.00	0.01	0.00	0.01				
18.50	0.01	0.00	0.01				
19.00	0.01	0.00	0.01				
19.50	0.01	0.00	0.01				
20.00	0.01	0.00	0.01				
20.50	0.01	0.00	0.01				
21.00	0.01	0.00	0.01				
21.50	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
22.50	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
23.50	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
24.50	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
25.50	0.00	0.00	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 50-Year Rainfall=7.48"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P 1: Proposed Area 1

Runoff Area=7,594 sf 0.00% Impervious Runoff Depth=3.05"
Flow Length=195' Tc=14.3 min CN=61 Runoff=0.47 cfs 0.044 af

Subcatchment P 2: Proposed Area 2

Runoff Area=4,481 sf 100.00% Impervious Runoff Depth=7.24"
Tc=5.0 min CN=98 Runoff=0.78 cfs 0.062 af

Subcatchment P3: Proposed Area 3

Runoff Area=5,634 sf 100.00% Impervious Runoff Depth=7.24"
Tc=5.0 min CN=98 Runoff=0.98 cfs 0.078 af

Pond 1P: 4' x 4' Infiltration Galleries

Peak Elev=74.09' Storage=1,008 cf Inflow=1.77 cfs 0.140 af
Discarded=0.05 cfs 0.068 af Primary=0.74 cfs 0.072 af Secondary=0.00 cfs 0.000 af Outflow=0.80 cfs 0.140 af

Link AP 2: Analysis Point at Easement

Inflow=1.21 cfs 0.117 af
Primary=1.21 cfs 0.117 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.184 af Average Runoff Depth = 5.44"
42.88% Pervious = 0.174 ac 57.12% Impervious = 0.232 ac

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 50-Year Rainfall=7.48"

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Summary for Subcatchment P 1: Proposed Area 1

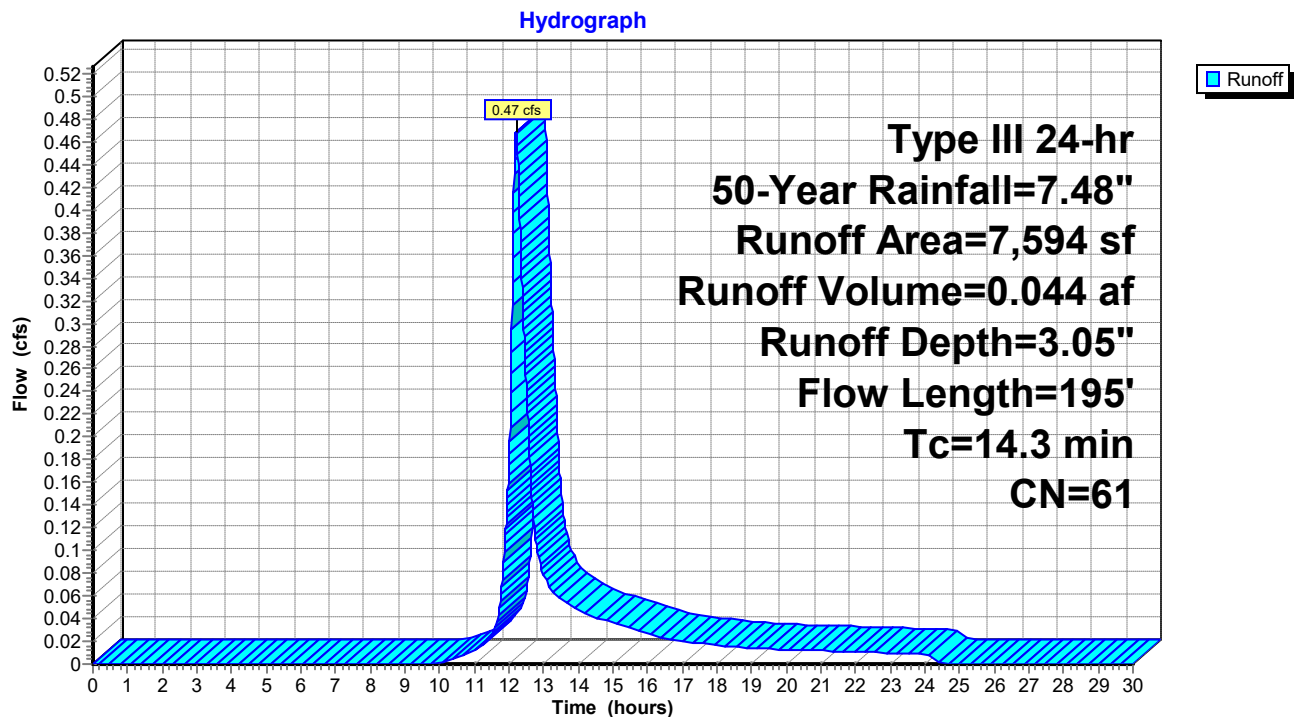
Runoff = 0.47 cfs @ 12.20 hrs, Volume= 0.044 af, Depth= 3.05"
Routed to Link AP 2 : Analysis Point at Easement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-Year Rainfall=7.48"

Area (sf)	CN	Description
7,594	61	>75% Grass cover, Good, HSG B
7,594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	100	0.0560	0.12		Sheet Flow, Center of Route 32 ROW to Lawn Area
					Grass: Bermuda n= 0.410 P2= 3.39"
0.2	95	0.2253	7.12		Shallow Concentrated Flow, Lawn Area/ Swale/ Easement Area
					Grassed Waterway Kv= 15.0 fps
14.3	195	Total			

Subcatchment P 1: Proposed Area 1



Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 50-Year Rainfall=7.48"

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Hydrograph for Subcatchment P 1: Proposed Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	7.48	3.05	0.00
0.50	0.04	0.00	0.00	26.50	7.48	3.05	0.00
1.00	0.07	0.00	0.00	27.00	7.48	3.05	0.00
1.50	0.11	0.00	0.00	27.50	7.48	3.05	0.00
2.00	0.15	0.00	0.00	28.00	7.48	3.05	0.00
2.50	0.19	0.00	0.00	28.50	7.48	3.05	0.00
3.00	0.23	0.00	0.00	29.00	7.48	3.05	0.00
3.50	0.27	0.00	0.00	29.50	7.48	3.05	0.00
4.00	0.32	0.00	0.00	30.00	7.48	3.05	0.00
4.50	0.37	0.00	0.00				
5.00	0.42	0.00	0.00				
5.50	0.48	0.00	0.00				
6.00	0.54	0.00	0.00				
6.50	0.60	0.00	0.00				
7.00	0.68	0.00	0.00				
7.50	0.76	0.00	0.00				
8.00	0.85	0.00	0.00				
8.50	0.96	0.00	0.00				
9.00	1.09	0.00	0.00				
9.50	1.24	0.00	0.00				
10.00	1.41	0.00	0.00				
10.50	1.62	0.02	0.01				
11.00	1.87	0.05	0.01				
11.50	2.23	0.12	0.03				
12.00	3.74	0.68	0.18				
12.50	5.25	1.52	0.25				
13.00	5.61	1.75	0.08				
13.50	5.86	1.91	0.06				
14.00	6.07	2.05	0.05				
14.50	6.24	2.17	0.04				
15.00	6.39	2.27	0.04				
15.50	6.52	2.36	0.03				
16.00	6.63	2.44	0.03				
16.50	6.72	2.50	0.02				
17.00	6.80	2.56	0.02				
17.50	6.88	2.61	0.02				
18.00	6.94	2.66	0.02				
18.50	7.00	2.70	0.01				
19.00	7.06	2.74	0.01				
19.50	7.11	2.78	0.01				
20.00	7.16	2.82	0.01				
20.50	7.21	2.85	0.01				
21.00	7.25	2.88	0.01				
21.50	7.29	2.92	0.01				
22.00	7.34	2.95	0.01				
22.50	7.38	2.98	0.01				
23.00	7.41	3.00	0.01				
23.50	7.45	3.03	0.01				
24.00	7.48	3.05	0.01				
24.50	7.48	3.05	0.00				
25.00	7.48	3.05	0.00				
25.50	7.48	3.05	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 50-Year Rainfall=7.48"

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Summary for Subcatchment P 2: Proposed Area 2

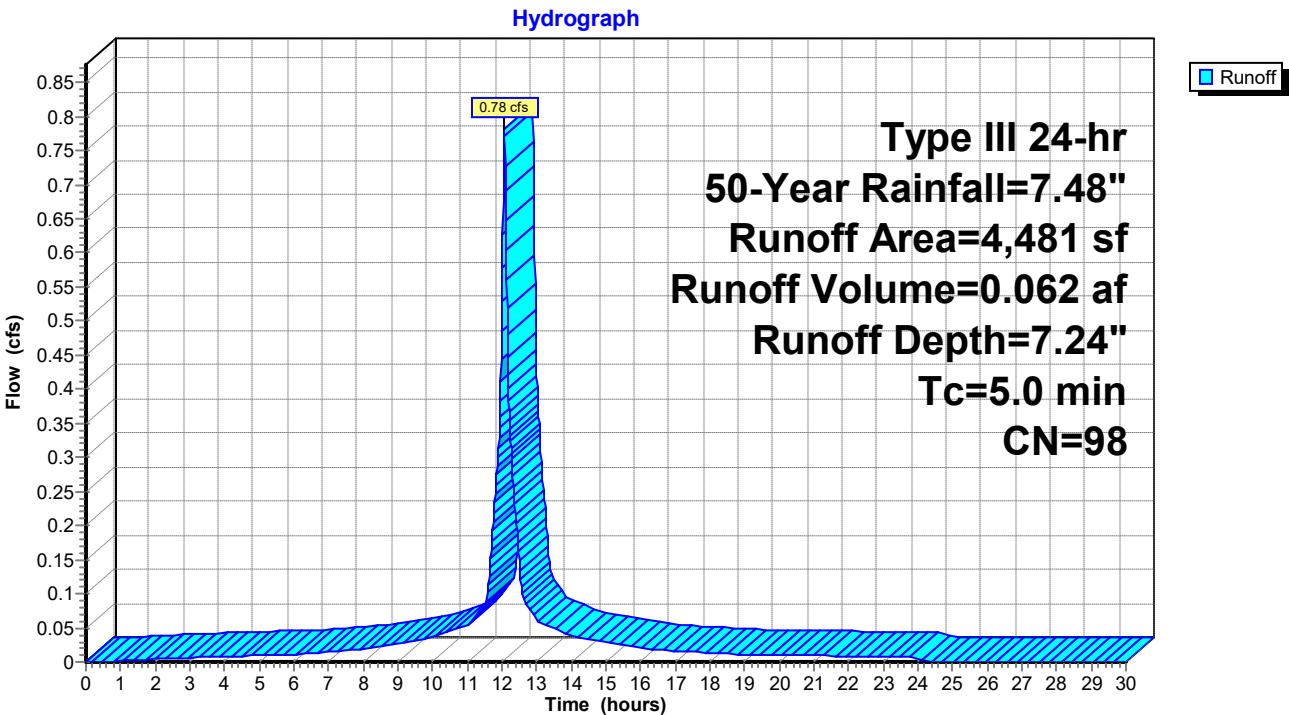
Runoff = 0.78 cfs @ 12.07 hrs, Volume= 0.062 af, Depth= 7.24"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-Year Rainfall=7.48"

Area (sf)	CN	Description
4,481	98	Roofs, HSG B
4,481		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Roofs to Underground Infiltration

Subcatchment P 2: Proposed Area 2



Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 50-Year Rainfall=7.48"

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Hydrograph for Subcatchment P 2: Proposed Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	7.48	7.24	0.00
0.50	0.04	0.00	0.00	26.50	7.48	7.24	0.00
1.00	0.07	0.00	0.00	27.00	7.48	7.24	0.00
1.50	0.11	0.02	0.00	27.50	7.48	7.24	0.00
2.00	0.15	0.04	0.00	28.00	7.48	7.24	0.00
2.50	0.19	0.06	0.01	28.50	7.48	7.24	0.00
3.00	0.23	0.09	0.01	29.00	7.48	7.24	0.00
3.50	0.27	0.12	0.01	29.50	7.48	7.24	0.00
4.00	0.32	0.16	0.01	30.00	7.48	7.24	0.00
4.50	0.37	0.20	0.01				
5.00	0.42	0.25	0.01				
5.50	0.48	0.30	0.01				
6.00	0.54	0.35	0.01				
6.50	0.60	0.41	0.01				
7.00	0.68	0.48	0.02				
7.50	0.76	0.56	0.02				
8.00	0.85	0.65	0.02				
8.50	0.96	0.75	0.02				
9.00	1.09	0.88	0.03				
9.50	1.24	1.03	0.03				
10.00	1.41	1.20	0.04				
10.50	1.62	1.40	0.05				
11.00	1.87	1.65	0.05				
11.50	2.23	2.00	0.09				
12.00	3.74	3.51	0.53				
12.50	5.25	5.01	0.14				
13.00	5.61	5.37	0.06				
13.50	5.86	5.62	0.05				
14.00	6.07	5.83	0.04				
14.50	6.24	6.00	0.03				
15.00	6.39	6.15	0.03				
15.50	6.52	6.28	0.03				
16.00	6.63	6.39	0.02				
16.50	6.72	6.48	0.02				
17.00	6.80	6.56	0.02				
17.50	6.88	6.64	0.01				
18.00	6.94	6.70	0.01				
18.50	7.00	6.76	0.01				
19.00	7.06	6.82	0.01				
19.50	7.11	6.87	0.01				
20.00	7.16	6.92	0.01				
20.50	7.21	6.97	0.01				
21.00	7.25	7.01	0.01				
21.50	7.29	7.06	0.01				
22.00	7.34	7.10	0.01				
22.50	7.38	7.14	0.01				
23.00	7.41	7.17	0.01				
23.50	7.45	7.21	0.01				
24.00	7.48	7.24	0.01				
24.50	7.48	7.24	0.00				
25.00	7.48	7.24	0.00				
25.50	7.48	7.24	0.00				

Summary for Subcatchment P3: Proposed Area 3

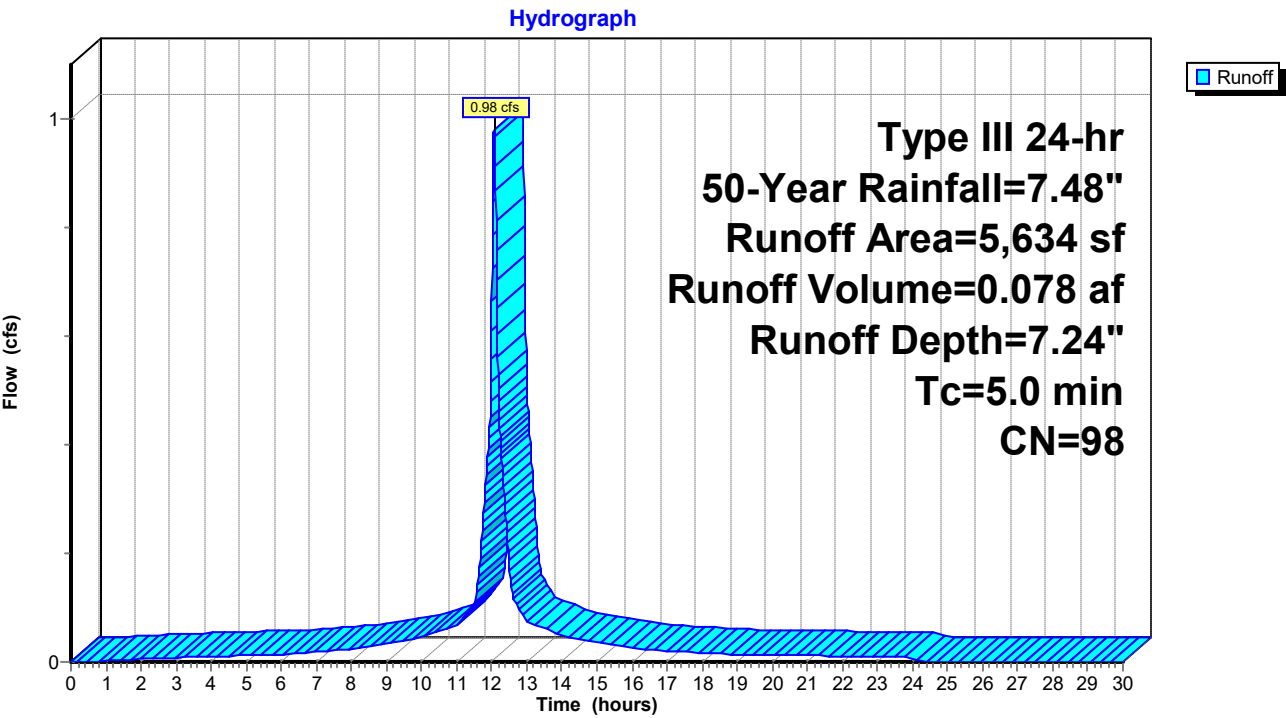
Runoff = 0.98 cfs @ 12.07 hrs, Volume= 0.078 af, Depth= 7.24"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 50-Year Rainfall=7.48"

Area (sf)	CN	Description
5,634	98	Paved parking, HSG B
5,634		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Parking area to Catch Basin

Subcatchment P3: Proposed Area 3



Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 50-Year Rainfall=7.48"

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Hydrograph for Subcatchment P3: Proposed Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	7.48	7.24	0.00
0.50	0.04	0.00	0.00	26.50	7.48	7.24	0.00
1.00	0.07	0.00	0.00	27.00	7.48	7.24	0.00
1.50	0.11	0.02	0.00	27.50	7.48	7.24	0.00
2.00	0.15	0.04	0.01	28.00	7.48	7.24	0.00
2.50	0.19	0.06	0.01	28.50	7.48	7.24	0.00
3.00	0.23	0.09	0.01	29.00	7.48	7.24	0.00
3.50	0.27	0.12	0.01	29.50	7.48	7.24	0.00
4.00	0.32	0.16	0.01	30.00	7.48	7.24	0.00
4.50	0.37	0.20	0.01				
5.00	0.42	0.25	0.01				
5.50	0.48	0.30	0.01				
6.00	0.54	0.35	0.01				
6.50	0.60	0.41	0.02				
7.00	0.68	0.48	0.02				
7.50	0.76	0.56	0.02				
8.00	0.85	0.65	0.02				
8.50	0.96	0.75	0.03				
9.00	1.09	0.88	0.03				
9.50	1.24	1.03	0.04				
10.00	1.41	1.20	0.05				
10.50	1.62	1.40	0.06				
11.00	1.87	1.65	0.07				
11.50	2.23	2.00	0.11				
12.00	3.74	3.51	0.67				
12.50	5.25	5.01	0.18				
13.00	5.61	5.37	0.08				
13.50	5.86	5.62	0.06				
14.00	6.07	5.83	0.05				
14.50	6.24	6.00	0.04				
15.00	6.39	6.15	0.04				
15.50	6.52	6.28	0.03				
16.00	6.63	6.39	0.03				
16.50	6.72	6.48	0.02				
17.00	6.80	6.56	0.02				
17.50	6.88	6.64	0.02				
18.00	6.94	6.70	0.02				
18.50	7.00	6.76	0.01				
19.00	7.06	6.82	0.01				
19.50	7.11	6.87	0.01				
20.00	7.16	6.92	0.01				
20.50	7.21	6.97	0.01				
21.00	7.25	7.01	0.01				
21.50	7.29	7.06	0.01				
22.00	7.34	7.10	0.01				
22.50	7.38	7.14	0.01				
23.00	7.41	7.17	0.01				
23.50	7.45	7.21	0.01				
24.00	7.48	7.24	0.01				
24.50	7.48	7.24	0.00				
25.00	7.48	7.24	0.00				
25.50	7.48	7.24	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 50-Year Rainfall=7.48"

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Summary for Pond 1P: 4' x 4' Infiltration Galleries

Inflow Area = 0.232 ac, 100.00% Impervious, Inflow Depth = 7.24" for 50-Year event
 Inflow = 1.77 cfs @ 12.07 hrs, Volume= 0.140 af
 Outflow = 0.80 cfs @ 12.22 hrs, Volume= 0.140 af, Atten= 55%, Lag= 9.0 min
 Discarded = 0.05 cfs @ 8.69 hrs, Volume= 0.068 af
 Primary = 0.74 cfs @ 12.22 hrs, Volume= 0.072 af
 Routed to Link AP 2 : Analysis Point at Easement
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
 Routed to Link AP 2 : Analysis Point at Easement

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Peak Elev= 74.09' @ 12.22 hrs Surf.Area= 395 sf Storage= 1,008 cf

Plug-Flow detention time= 16.7 min calculated for 0.140 af (100% of inflow)
 Center-of-Mass det. time= 16.7 min (757.9 - 741.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	70.00'	525 cf	15.20'W x 26.00'L x 6.00'H Field A 2,371 cf Overall - 1,060 cf Embedded = 1,311 cf x 40.0% Voids
#2A	71.00'	798 cf	Concrete Galley 4x4x4 x 18 Inside #1 Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf 18 Chambers in 3 Rows
		1,323 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	70.80'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads 4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Secondary	75.00'	
#3	Discarded	70.00'	6.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.05 cfs @ 8.69 hrs HW=70.06' (Free Discharge)
 ↑ **3=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.74 cfs @ 12.22 hrs HW=74.09' (Free Discharge)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.74 cfs @ 8.51 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=70.00' (Free Discharge)
 ↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: 4' x 4' Infiltration Galleries - Chamber Wizard Field A

Chamber Model = Concrete Galley 4x4x4 (Concrete Galley, UCPI 4x4x4 Galley or equivalent)

Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf

Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf

6 Chambers/Row x 4.00' Long = 24.00' Row Length +12.0" End Stone x 2 = 26.00' Base Length

3 Rows x 52.8" Wide + 12.0" Side Stone x 2 = 15.20' Base Width

12.0" Stone Base + 48.0" Chamber Height + 12.0" Stone Cover = 6.00' Field Height

18 Chambers x 44.3 cf = 798.2 cf Chamber Storage

18 Chambers x 58.9 cf = 1,059.8 cf Displacement

2,371.2 cf Field - 1,059.8 cf Chambers = 1,311.4 cf Stone x 40.0% Voids = 524.6 cf Stone Storage

Chamber Storage + Stone Storage = 1,322.8 cf = 0.030 af

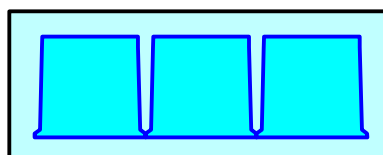
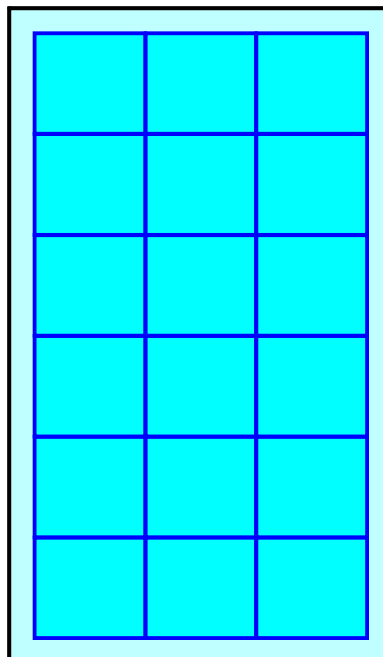
Overall Storage Efficiency = 55.8%

Overall System Size = 26.00' x 15.20' x 6.00'

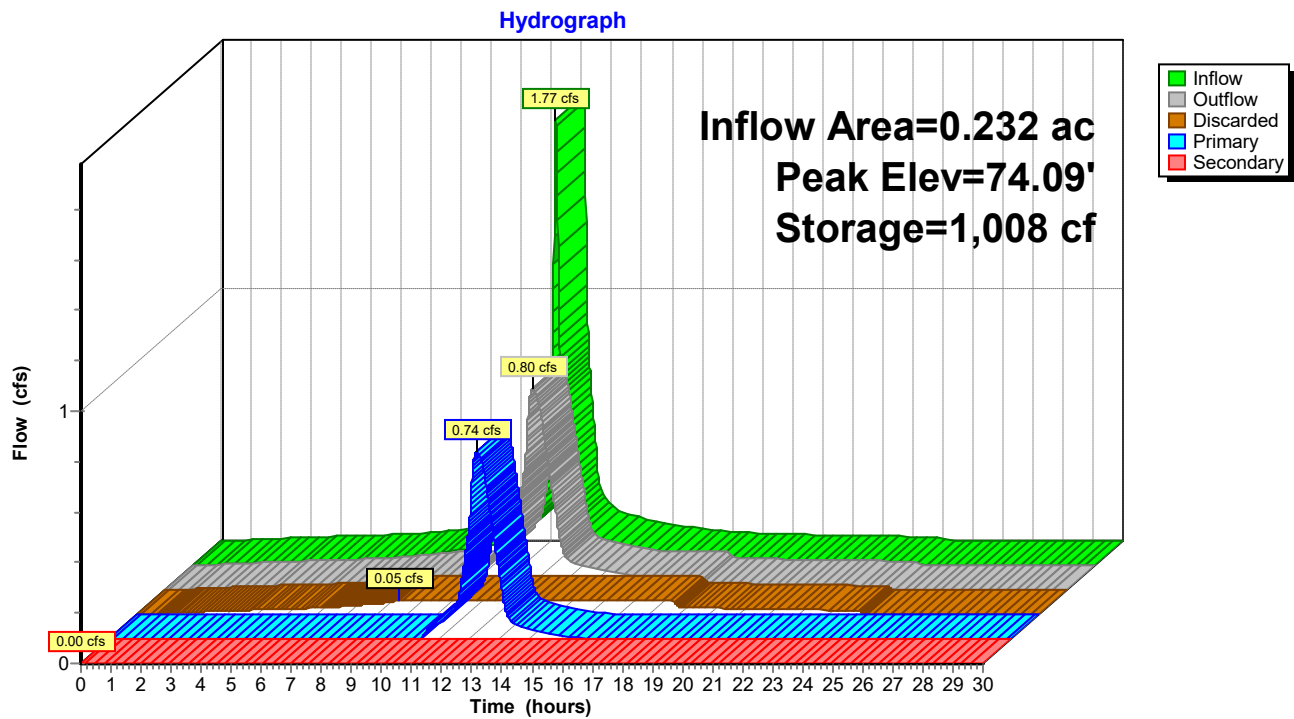
18 Chambers

87.8 cy Field

48.6 cy Stone



Pond 1P: 4' x 4' Infiltration Galleries



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 50-Year Rainfall=7.48"*

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Hydrograph for Pond 1P: 4' x 4' Infiltration Galleries

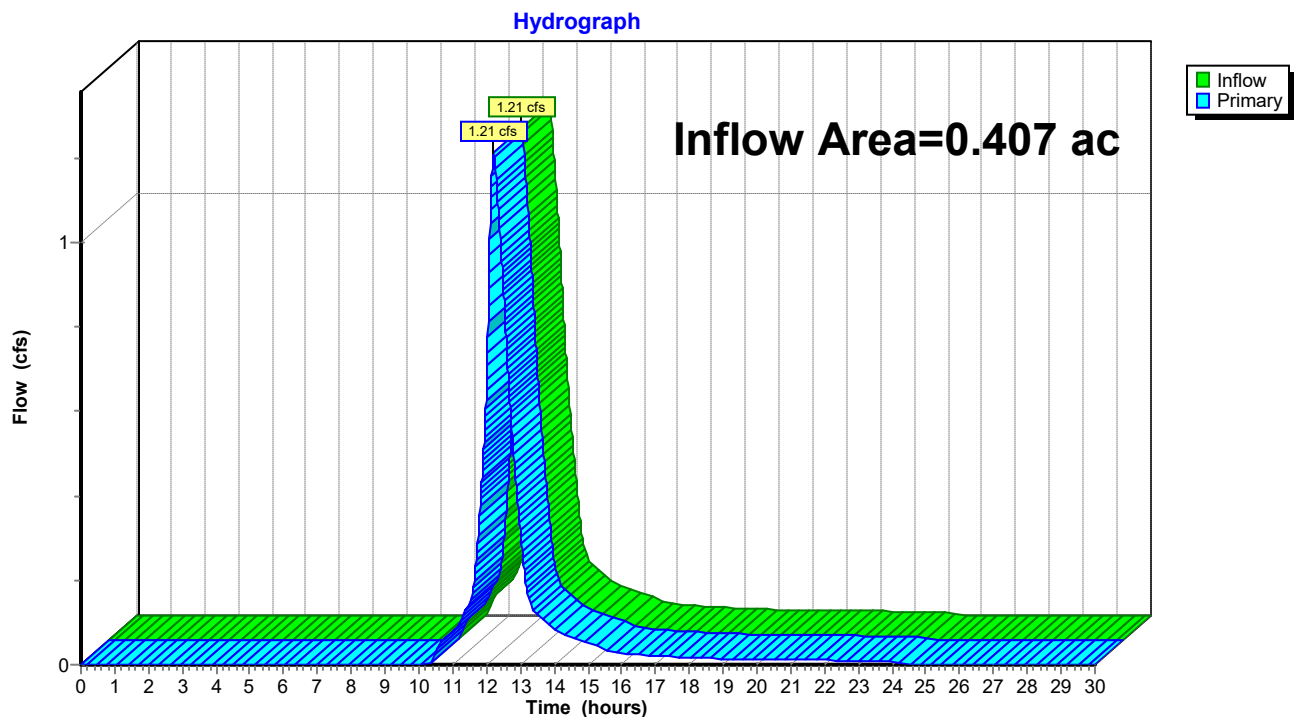
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0	70.00	0.00	0.00	0.00	0.00
1.00	0.00	1	70.00	0.00	0.00	0.00	0.00
2.00	0.01	2	70.01	0.01	0.01	0.00	0.00
3.00	0.01	2	70.02	0.01	0.01	0.00	0.00
4.00	0.02	3	70.02	0.02	0.02	0.00	0.00
5.00	0.02	4	70.02	0.02	0.02	0.00	0.00
6.00	0.03	4	70.03	0.03	0.03	0.00	0.00
7.00	0.03	6	70.04	0.03	0.03	0.00	0.00
8.00	0.04	7	70.05	0.04	0.04	0.00	0.00
9.00	0.06	14	70.09	0.05	0.05	0.00	0.00
10.00	0.08	78	70.49	0.05	0.05	0.00	0.00
11.00	0.12	154	70.97	0.12	0.05	0.07	0.00
12.00	1.19	504	72.25	0.53	0.05	0.48	0.00
13.00	0.14	240	71.30	0.30	0.05	0.24	0.00
14.00	0.09	146	70.93	0.09	0.05	0.04	0.00
15.00	0.07	138	70.87	0.07	0.05	0.01	0.00
16.00	0.05	124	70.79	0.05	0.05	0.00	0.00
17.00	0.04	77	70.49	0.05	0.05	0.00	0.00
18.00	0.03	5	70.03	0.03	0.03	0.00	0.00
19.00	0.03	4	70.03	0.03	0.03	0.00	0.00
20.00	0.02	4	70.03	0.02	0.02	0.00	0.00
21.00	0.02	4	70.02	0.02	0.02	0.00	0.00
22.00	0.02	3	70.02	0.02	0.02	0.00	0.00
23.00	0.02	3	70.02	0.02	0.02	0.00	0.00
24.00	0.02	3	70.02	0.02	0.02	0.00	0.00
25.00	0.00	0	70.00	0.00	0.00	0.00	0.00
26.00	0.00	0	70.00	0.00	0.00	0.00	0.00
27.00	0.00	0	70.00	0.00	0.00	0.00	0.00
28.00	0.00	0	70.00	0.00	0.00	0.00	0.00
29.00	0.00	0	70.00	0.00	0.00	0.00	0.00
30.00	0.00	0	70.00	0.00	0.00	0.00	0.00

Summary for Link AP 2: Analysis Point at Easement

Inflow Area = 0.407 ac, 57.12% Impervious, Inflow Depth = 3.45" for 50-Year event
Inflow = 1.21 cfs @ 12.21 hrs, Volume= 0.117 af
Primary = 1.21 cfs @ 12.21 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 3L

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Link AP 2: Analysis Point at Easement



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 50-Year Rainfall=7.48"*

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Hydrograph for Link AP 2: Analysis Point at Easement

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	27.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	28.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00	29.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	29.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00				
5.00	0.00	0.00	0.00				
5.50	0.00	0.00	0.00				
6.00	0.00	0.00	0.00				
6.50	0.00	0.00	0.00				
7.00	0.00	0.00	0.00				
7.50	0.00	0.00	0.00				
8.00	0.00	0.00	0.00				
8.50	0.00	0.00	0.00				
9.00	0.00	0.00	0.00				
9.50	0.00	0.00	0.00				
10.00	0.00	0.00	0.00				
10.50	0.03	0.00	0.03				
11.00	0.08	0.00	0.08				
11.50	0.15	0.00	0.15				
12.00	0.65	0.00	0.65				
12.50	0.89	0.00	0.89				
13.00	0.32	0.00	0.32				
13.50	0.12	0.00	0.12				
14.00	0.09	0.00	0.09				
14.50	0.06	0.00	0.06				
15.00	0.05	0.00	0.05				
15.50	0.04	0.00	0.04				
16.00	0.03	0.00	0.03				
16.50	0.02	0.00	0.02				
17.00	0.02	0.00	0.02				
17.50	0.02	0.00	0.02				
18.00	0.02	0.00	0.02				
18.50	0.01	0.00	0.01				
19.00	0.01	0.00	0.01				
19.50	0.01	0.00	0.01				
20.00	0.01	0.00	0.01				
20.50	0.01	0.00	0.01				
21.00	0.01	0.00	0.01				
21.50	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
22.50	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
23.50	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
24.50	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
25.50	0.00	0.00	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 100-Year Rainfall=8.88"

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Time span=0.00-30.00 hrs, dt=0.01 hrs, 3001 points

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

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

Subcatchment P 1: Proposed Area 1

Runoff Area=7,594 sf 0.00% Impervious Runoff Depth=4.13"
Flow Length=195' Tc=14.3 min CN=61 Runoff=0.64 cfs 0.060 af

Subcatchment P 2: Proposed Area 2

Runoff Area=4,481 sf 100.00% Impervious Runoff Depth=8.64"
Tc=5.0 min CN=98 Runoff=0.93 cfs 0.074 af

Subcatchment P3: Proposed Area 3

Runoff Area=5,634 sf 100.00% Impervious Runoff Depth=8.64"
Tc=5.0 min CN=98 Runoff=1.17 cfs 0.093 af

Pond 1P: 4' x 4' Infiltration Galleries

Peak Elev=75.11' Storage=1,182 cf Inflow=2.10 cfs 0.167 af
Discarded=0.05 cfs 0.074 af Primary=0.86 cfs 0.091 af Secondary=0.40 cfs 0.002 af Outflow=1.31 cfs 0.167 af

Link AP 2: Analysis Point at Easement

Inflow=1.87 cfs 0.153 af
Primary=1.87 cfs 0.153 af

Total Runoff Area = 0.407 ac Runoff Volume = 0.227 af Average Runoff Depth = 6.71"
42.88% Pervious = 0.174 ac 57.12% Impervious = 0.232 ac

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 100-Year Rainfall=8.88"

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Summary for Subcatchment P 1: Proposed Area 1

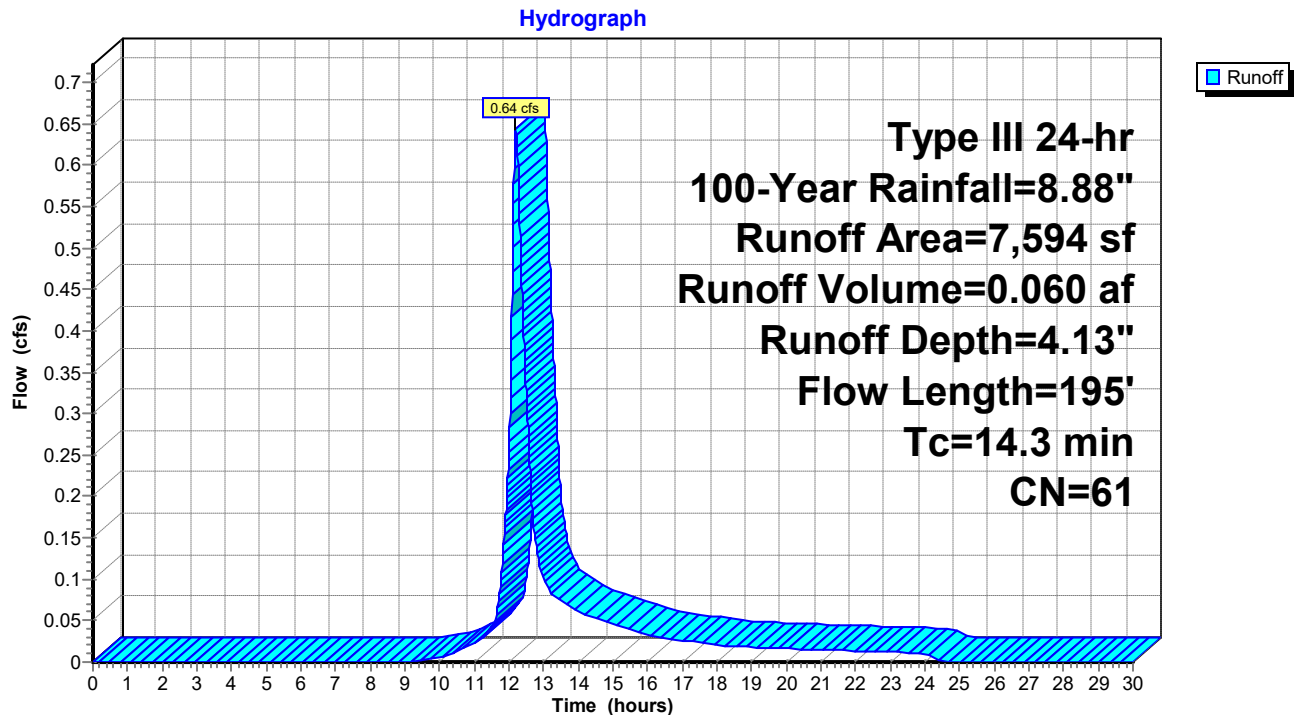
Runoff = 0.64 cfs @ 12.20 hrs, Volume= 0.060 af, Depth= 4.13"
Routed to Link AP 2 : Analysis Point at Easement

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.88"

Area (sf)	CN	Description
7,594	61	>75% Grass cover, Good, HSG B
7,594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	100	0.0560	0.12		Sheet Flow, Center of Route 32 ROW to Lawn Area Grass: Bermuda n= 0.410 P2= 3.39"
0.2	95	0.2253	7.12		Shallow Concentrated Flow, Lawn Area/ Swale/ Easement Area Grassed Waterway Kv= 15.0 fps
14.3	195	Total			

Subcatchment P 1: Proposed Area 1



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 100-Year Rainfall=8.88"*

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Hydrograph for Subcatchment P 1: Proposed Area 1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	8.88	4.13	0.00
0.50	0.04	0.00	0.00	26.50	8.88	4.13	0.00
1.00	0.09	0.00	0.00	27.00	8.88	4.13	0.00
1.50	0.13	0.00	0.00	27.50	8.88	4.13	0.00
2.00	0.18	0.00	0.00	28.00	8.88	4.13	0.00
2.50	0.22	0.00	0.00	28.50	8.88	4.13	0.00
3.00	0.27	0.00	0.00	29.00	8.88	4.13	0.00
3.50	0.33	0.00	0.00	29.50	8.88	4.13	0.00
4.00	0.38	0.00	0.00	30.00	8.88	4.13	0.00
4.50	0.44	0.00	0.00				
5.00	0.50	0.00	0.00				
5.50	0.57	0.00	0.00				
6.00	0.64	0.00	0.00				
6.50	0.72	0.00	0.00				
7.00	0.80	0.00	0.00				
7.50	0.90	0.00	0.00				
8.00	1.01	0.00	0.00				
8.50	1.14	0.00	0.00				
9.00	1.29	0.00	0.00				
9.50	1.47	0.01	0.00				
10.00	1.68	0.02	0.01				
10.50	1.92	0.06	0.01				
11.00	2.22	0.12	0.02				
11.50	2.65	0.24	0.04				
12.00	4.44	1.05	0.25				
12.50	6.23	2.16	0.33				
13.00	6.66	2.46	0.10				
13.50	6.96	2.67	0.07				
14.00	7.20	2.85	0.06				
14.50	7.41	3.00	0.05				
15.00	7.59	3.13	0.05				
15.50	7.74	3.25	0.04				
16.00	7.87	3.34	0.03				
16.50	7.98	3.43	0.03				
17.00	8.08	3.50	0.03				
17.50	8.16	3.57	0.02				
18.00	8.24	3.63	0.02				
18.50	8.31	3.68	0.02				
19.00	8.38	3.73	0.02				
19.50	8.44	3.78	0.02				
20.00	8.50	3.83	0.02				
20.50	8.55	3.87	0.02				
21.00	8.61	3.92	0.01				
21.50	8.66	3.96	0.01				
22.00	8.71	3.99	0.01				
22.50	8.76	4.03	0.01				
23.00	8.80	4.07	0.01				
23.50	8.84	4.10	0.01				
24.00	8.88	4.13	0.01				
24.50	8.88	4.13	0.00				
25.00	8.88	4.13	0.00				
25.50	8.88	4.13	0.00				

Proposed Stormwater Analysis 2026 July13

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Type III 24-hr 100-Year Rainfall=8.88"

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Summary for Subcatchment P 2: Proposed Area 2

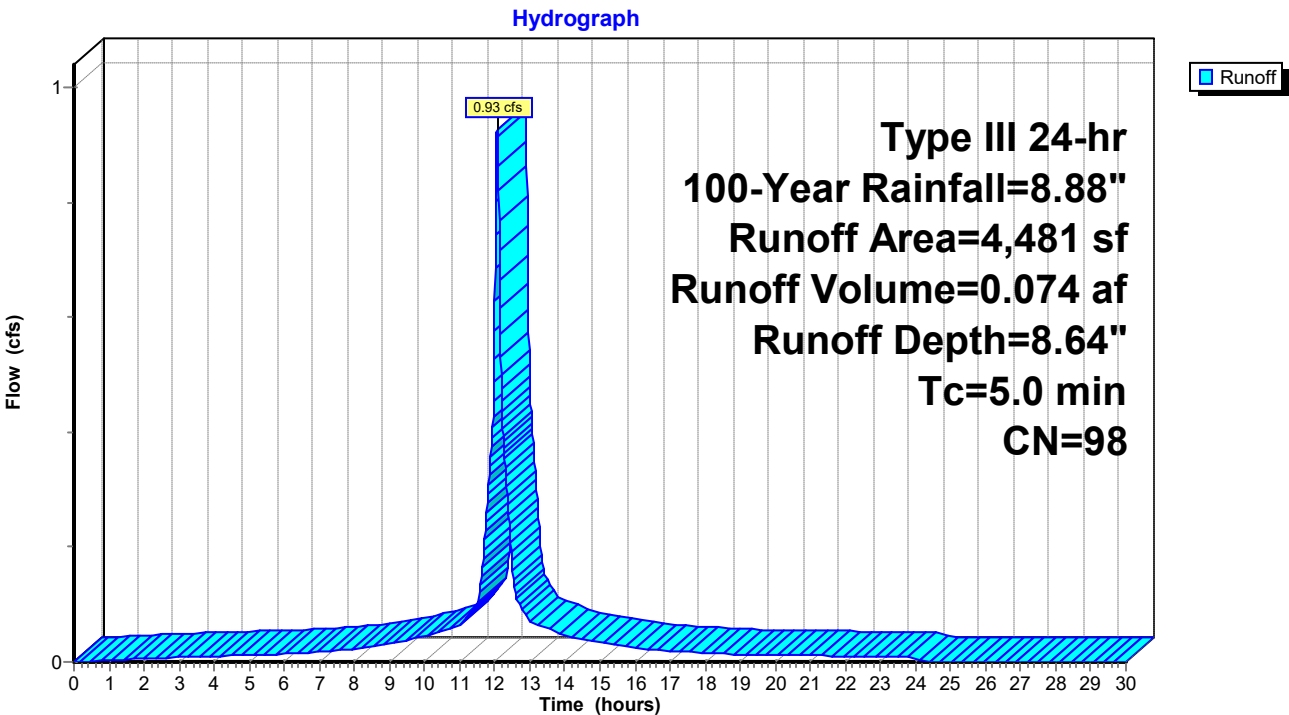
Runoff = 0.93 cfs @ 12.07 hrs, Volume= 0.074 af, Depth= 8.64"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.88"

Area (sf)	CN	Description
4,481	98	Roofs, HSG B
4,481		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Roofs to Underground Infiltration

Subcatchment P 2: Proposed Area 2



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 100-Year Rainfall=8.88"*

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Hydrograph for Subcatchment P 2: Proposed Area 2

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	8.88	8.64	0.00
0.50	0.04	0.00	0.00	26.50	8.88	8.64	0.00
1.00	0.09	0.01	0.00	27.00	8.88	8.64	0.00
1.50	0.13	0.03	0.00	27.50	8.88	8.64	0.00
2.00	0.18	0.05	0.01	28.00	8.88	8.64	0.00
2.50	0.22	0.09	0.01	28.50	8.88	8.64	0.00
3.00	0.27	0.12	0.01	29.00	8.88	8.64	0.00
3.50	0.33	0.17	0.01	29.50	8.88	8.64	0.00
4.00	0.38	0.21	0.01	30.00	8.88	8.64	0.00
4.50	0.44	0.27	0.01				
5.00	0.50	0.32	0.01				
5.50	0.57	0.38	0.01				
6.00	0.64	0.45	0.01				
6.50	0.72	0.52	0.02				
7.00	0.80	0.60	0.02				
7.50	0.90	0.70	0.02				
8.00	1.01	0.80	0.02				
8.50	1.14	0.93	0.03				
9.00	1.29	1.08	0.03				
9.50	1.47	1.25	0.04				
10.00	1.68	1.46	0.04				
10.50	1.92	1.70	0.05				
11.00	2.22	1.99	0.07				
11.50	2.65	2.42	0.10				
12.00	4.44	4.20	0.63				
12.50	6.23	6.00	0.17				
13.00	6.66	6.42	0.07				
13.50	6.96	6.72	0.06				
14.00	7.20	6.96	0.05				
14.50	7.41	7.17	0.04				
15.00	7.59	7.35	0.04				
15.50	7.74	7.50	0.03				
16.00	7.87	7.63	0.02				
16.50	7.98	7.74	0.02				
17.00	8.08	7.84	0.02				
17.50	8.16	7.92	0.02				
18.00	8.24	8.00	0.02				
18.50	8.31	8.07	0.01				
19.00	8.38	8.14	0.01				
19.50	8.44	8.20	0.01				
20.00	8.50	8.26	0.01				
20.50	8.55	8.31	0.01				
21.00	8.61	8.37	0.01				
21.50	8.66	8.42	0.01				
22.00	8.71	8.47	0.01				
22.50	8.76	8.52	0.01				
23.00	8.80	8.56	0.01				
23.50	8.84	8.60	0.01				
24.00	8.88	8.64	0.01				
24.50	8.88	8.64	0.00				
25.00	8.88	8.64	0.00				
25.50	8.88	8.64	0.00				

Summary for Subcatchment P3: Proposed Area 3

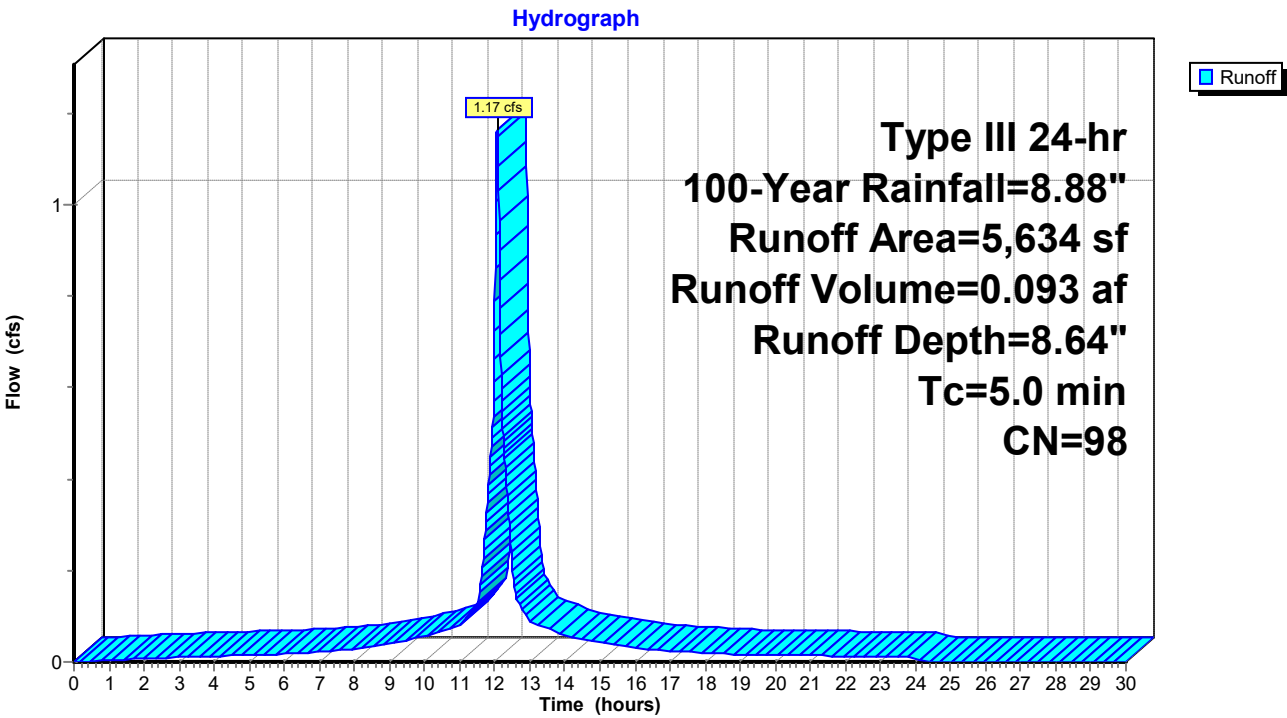
Runoff = 1.17 cfs @ 12.07 hrs, Volume= 0.093 af, Depth= 8.64"
Routed to Pond 1P : 4' x 4' Infiltration Galleries

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-Year Rainfall=8.88"

Area (sf)	CN	Description
5,634	98	Paved parking, HSG B
5,634		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Parking area to Catch Basin

Subcatchment P3: Proposed Area 3



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 100-Year Rainfall=8.88"*

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Hydrograph for Subcatchment P3: Proposed Area 3

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	26.00	8.88	8.64	0.00
0.50	0.04	0.00	0.00	26.50	8.88	8.64	0.00
1.00	0.09	0.01	0.00	27.00	8.88	8.64	0.00
1.50	0.13	0.03	0.01	27.50	8.88	8.64	0.00
2.00	0.18	0.05	0.01	28.00	8.88	8.64	0.00
2.50	0.22	0.09	0.01	28.50	8.88	8.64	0.00
3.00	0.27	0.12	0.01	29.00	8.88	8.64	0.00
3.50	0.33	0.17	0.01	29.50	8.88	8.64	0.00
4.00	0.38	0.21	0.01	30.00	8.88	8.64	0.00
4.50	0.44	0.27	0.01				
5.00	0.50	0.32	0.02				
5.50	0.57	0.38	0.02				
6.00	0.64	0.45	0.02				
6.50	0.72	0.52	0.02				
7.00	0.80	0.60	0.02				
7.50	0.90	0.70	0.03				
8.00	1.01	0.80	0.03				
8.50	1.14	0.93	0.03				
9.00	1.29	1.08	0.04				
9.50	1.47	1.25	0.05				
10.00	1.68	1.46	0.06				
10.50	1.92	1.70	0.07				
11.00	2.22	1.99	0.08				
11.50	2.65	2.42	0.13				
12.00	4.44	4.20	0.79				
12.50	6.23	6.00	0.22				
13.00	6.66	6.42	0.09				
13.50	6.96	6.72	0.07				
14.00	7.20	6.96	0.06				
14.50	7.41	7.17	0.05				
15.00	7.59	7.35	0.04				
15.50	7.74	7.50	0.04				
16.00	7.87	7.63	0.03				
16.50	7.98	7.74	0.03				
17.00	8.08	7.84	0.02				
17.50	8.16	7.92	0.02				
18.00	8.24	8.00	0.02				
18.50	8.31	8.07	0.02				
19.00	8.38	8.14	0.02				
19.50	8.44	8.20	0.02				
20.00	8.50	8.26	0.02				
20.50	8.55	8.31	0.01				
21.00	8.61	8.37	0.01				
21.50	8.66	8.42	0.01				
22.00	8.71	8.47	0.01				
22.50	8.76	8.52	0.01				
23.00	8.80	8.56	0.01				
23.50	8.84	8.60	0.01				
24.00	8.88	8.64	0.01				
24.50	8.88	8.64	0.00				
25.00	8.88	8.64	0.00				
25.50	8.88	8.64	0.00				

Proposed Stormwater Analysis 2026 July13

Type III 24-hr 100-Year Rainfall=8.88"

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Summary for Pond 1P: 4' x 4' Infiltration Galleries

Inflow Area = 0.232 ac, 100.00% Impervious, Inflow Depth = 8.64" for 100-Year event
 Inflow = 2.10 cfs @ 12.07 hrs, Volume= 0.167 af
 Outflow = 1.31 cfs @ 12.16 hrs, Volume= 0.167 af, Atten= 38%, Lag= 5.5 min
 Discarded = 0.05 cfs @ 8.23 hrs, Volume= 0.074 af
 Primary = 0.86 cfs @ 12.16 hrs, Volume= 0.091 af
 Routed to Link AP 2 : Analysis Point at Easement
 Secondary = 0.40 cfs @ 12.16 hrs, Volume= 0.002 af
 Routed to Link AP 2 : Analysis Point at Easement

Routing by Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Peak Elev= 75.11' @ 12.16 hrs Surf.Area= 395 sf Storage= 1,182 cf

Plug-Flow detention time= 17.1 min calculated for 0.167 af (100% of inflow)
 Center-of-Mass det. time= 17.1 min (756.2 - 739.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	70.00'	525 cf	15.20'W x 26.00'L x 6.00'H Field A 2,371 cf Overall - 1,060 cf Embedded = 1,311 cf x 40.0% Voids
#2A	71.00'	798 cf	Concrete Galley 4x4x4 x 18 Inside #1 Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf 18 Chambers in 3 Rows
		1,323 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Primary	70.80'	4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads 4.0' long x 1.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 Coef. (English) 2.69 2.72 2.75 2.85 2.98 3.08 3.20 3.28 3.31 3.30 3.31 3.32
#2	Secondary	75.00'	
#3	Discarded	70.00'	6.000 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.05 cfs @ 8.23 hrs HW=70.06' (Free Discharge)
 ↑ **3=Exfiltration** (Exfiltration Controls 0.05 cfs)

Primary OutFlow Max=0.86 cfs @ 12.16 hrs HW=75.11' (Free Discharge)
 ↑ **1=Orifice/Grate** (Orifice Controls 0.86 cfs @ 9.80 fps)

Secondary OutFlow Max=0.39 cfs @ 12.16 hrs HW=75.11' (Free Discharge)
 ↑ **2=Broad-Crested Rectangular Weir** (Weir Controls 0.39 cfs @ 0.89 fps)

Pond 1P: 4' x 4' Infiltration Galleries - Chamber Wizard Field A

Chamber Model = Concrete Galley 4x4x4 (Concrete Galley, UCPI 4x4x4 Galley or equivalent)

Inside= 42.0"W x 43.0"H => 12.67 sf x 3.50'L = 44.3 cf

Outside= 52.8"W x 48.0"H => 14.72 sf x 4.00'L = 58.9 cf

6 Chambers/Row x 4.00' Long = 24.00' Row Length +12.0" End Stone x 2 = 26.00' Base Length

3 Rows x 52.8" Wide + 12.0" Side Stone x 2 = 15.20' Base Width

12.0" Stone Base + 48.0" Chamber Height + 12.0" Stone Cover = 6.00' Field Height

18 Chambers x 44.3 cf = 798.2 cf Chamber Storage

18 Chambers x 58.9 cf = 1,059.8 cf Displacement

2,371.2 cf Field - 1,059.8 cf Chambers = 1,311.4 cf Stone x 40.0% Voids = 524.6 cf Stone Storage

Chamber Storage + Stone Storage = 1,322.8 cf = 0.030 af

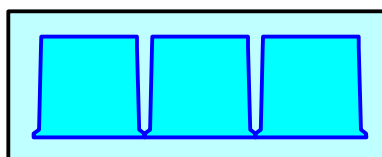
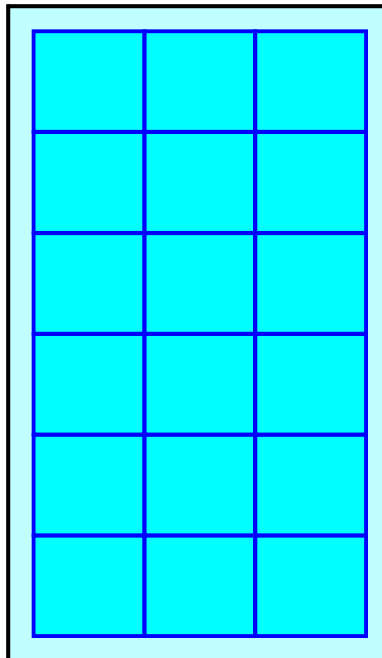
Overall Storage Efficiency = 55.8%

Overall System Size = 26.00' x 15.20' x 6.00'

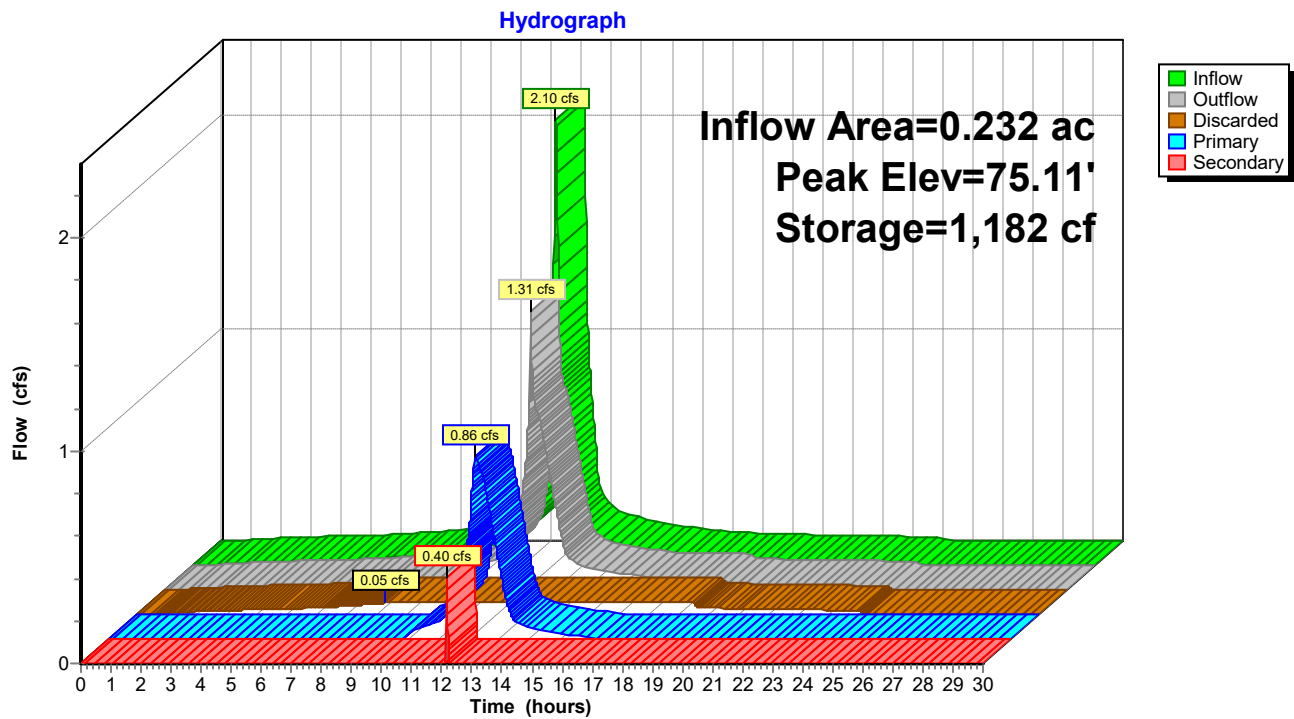
18 Chambers

87.8 cy Field

48.6 cy Stone



Pond 1P: 4' x 4' Infiltration Galleries



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 100-Year Rainfall=8.88"*

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Hydrograph for Pond 1P: 4' x 4' Infiltration Galleries

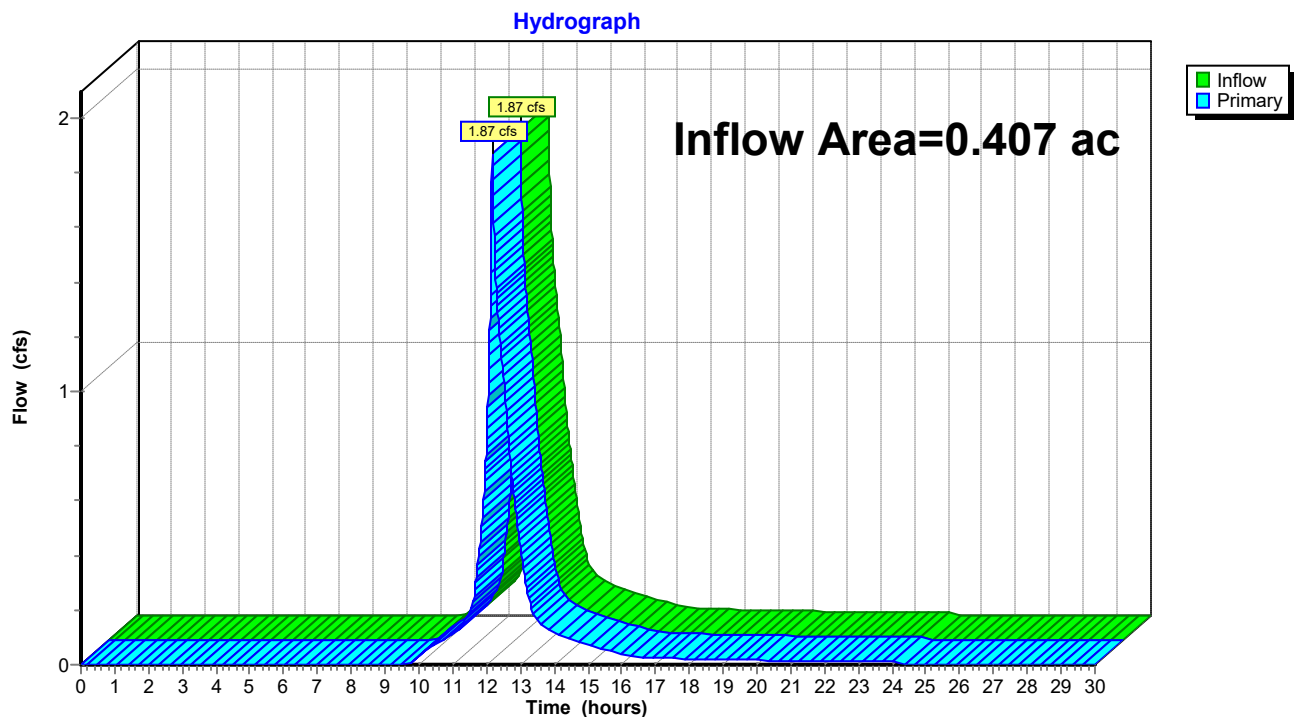
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)	Secondary (cfs)
0.00	0.00	0	70.00	0.00	0.00	0.00	0.00
1.00	0.01	1	70.01	0.01	0.01	0.00	0.00
2.00	0.01	2	70.01	0.01	0.01	0.00	0.00
3.00	0.02	3	70.02	0.02	0.02	0.00	0.00
4.00	0.02	4	70.02	0.02	0.02	0.00	0.00
5.00	0.03	5	70.03	0.03	0.03	0.00	0.00
6.00	0.03	5	70.03	0.03	0.03	0.00	0.00
7.00	0.04	7	70.04	0.04	0.04	0.00	0.00
8.00	0.05	9	70.06	0.05	0.05	0.00	0.00
9.00	0.07	38	70.24	0.05	0.05	0.00	0.00
10.00	0.10	144	70.91	0.08	0.05	0.03	0.00
11.00	0.15	160	71.01	0.14	0.05	0.09	0.00
12.00	1.42	609	72.63	0.60	0.05	0.54	0.00
13.00	0.17	321	71.60	0.39	0.05	0.33	0.00
14.00	0.11	151	70.96	0.11	0.05	0.05	0.00
15.00	0.08	143	70.91	0.08	0.05	0.03	0.00
16.00	0.06	133	70.84	0.06	0.05	0.00	0.00
17.00	0.04	111	70.70	0.05	0.05	0.00	0.00
18.00	0.03	55	70.35	0.05	0.05	0.00	0.00
19.00	0.03	5	70.03	0.03	0.03	0.00	0.00
20.00	0.03	5	70.03	0.03	0.03	0.00	0.00
21.00	0.02	4	70.03	0.02	0.02	0.00	0.00
22.00	0.02	4	70.02	0.02	0.02	0.00	0.00
23.00	0.02	4	70.02	0.02	0.02	0.00	0.00
24.00	0.02	3	70.02	0.02	0.02	0.00	0.00
25.00	0.00	0	70.00	0.00	0.00	0.00	0.00
26.00	0.00	0	70.00	0.00	0.00	0.00	0.00
27.00	0.00	0	70.00	0.00	0.00	0.00	0.00
28.00	0.00	0	70.00	0.00	0.00	0.00	0.00
29.00	0.00	0	70.00	0.00	0.00	0.00	0.00
30.00	0.00	0	70.00	0.00	0.00	0.00	0.00

Summary for Link AP 2: Analysis Point at Easement

Inflow Area = 0.407 ac, 57.12% Impervious, Inflow Depth = 4.52" for 100-Year event
Inflow = 1.87 cfs @ 12.16 hrs, Volume= 0.153 af
Primary = 1.87 cfs @ 12.16 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Routed to nonexistent node 3L

Primary outflow = Inflow, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Link AP 2: Analysis Point at Easement



Proposed Stormwater Analysis 2026 July13*Type III 24-hr 100-Year Rainfall=8.88"*

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Hydrograph for Link AP 2: Analysis Point at Easement

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00	26.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	26.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00	27.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	27.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	28.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00	29.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	29.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00				
5.00	0.00	0.00	0.00				
5.50	0.00	0.00	0.00				
6.00	0.00	0.00	0.00				
6.50	0.00	0.00	0.00				
7.00	0.00	0.00	0.00				
7.50	0.00	0.00	0.00				
8.00	0.00	0.00	0.00				
8.50	0.00	0.00	0.00				
9.00	0.00	0.00	0.00				
9.50	0.00	0.00	0.00				
10.00	0.04	0.00	0.04				
10.50	0.08	0.00	0.08				
11.00	0.11	0.00	0.11				
11.50	0.20	0.00	0.20				
12.00	0.80	0.00	0.80				
12.50	1.05	0.00	1.05				
13.00	0.44	0.00	0.44				
13.50	0.16	0.00	0.16				
14.00	0.12	0.00	0.12				
14.50	0.09	0.00	0.09				
15.00	0.07	0.00	0.07				
15.50	0.06	0.00	0.06				
16.00	0.04	0.00	0.04				
16.50	0.03	0.00	0.03				
17.00	0.03	0.00	0.03				
17.50	0.02	0.00	0.02				
18.00	0.02	0.00	0.02				
18.50	0.02	0.00	0.02				
19.00	0.02	0.00	0.02				
19.50	0.02	0.00	0.02				
20.00	0.02	0.00	0.02				
20.50	0.02	0.00	0.02				
21.00	0.01	0.00	0.01				
21.50	0.01	0.00	0.01				
22.00	0.01	0.00	0.01				
22.50	0.01	0.00	0.01				
23.00	0.01	0.00	0.01				
23.50	0.01	0.00	0.01				
24.00	0.01	0.00	0.01				
24.50	0.00	0.00	0.00				
25.00	0.00	0.00	0.00				
25.50	0.00	0.00	0.00				