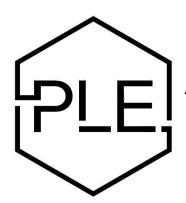
NEW BEGINNINGS DRAINAGE REPORT

Date: 07-24-2025

Located in: Bryant, Arkansas

Prepared for:City of Bryant, Arkansas

Prepared by:



PHILLIP LEWIS ENGINEERING

Structural + Civil Consultants

23620 Interstate 30 | Bryant, AR PH: 501-350-9840

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CERTIFICATION

I hereby state that this Final Drainage has been prepared by me or under my supervision and meets the standard of care and expertise which is usual and customary in this community of professional engineers. The analysis has been prepared utilizing procedures and practices by the City of Bryant and within the standard accepted practices.

Phillip A. Lewis, PE.

3

DATE: 07-24-2024

DESCRIPTION OF PROPERTY

The proposed project is for the construction of a new pregnancy center located along Highway 5, directly adjacent to the current ongoing seminary project. The proposed development is a 5,900 sq. ft. building and parking lot.

The intent of this drainage analysis is to adequately size the storm sewer system and summarize pre and post runoff conditions.

The existing ground coverage for the entire development drainage basin consists of natural vegetation (2%-7% slope), hydrologic soil group B/C.

According to FEMA Flood Insurance Rate Map, Panel 05125C0240E, this property lies within Zone X, areas determined to be outside the 0.2% annual chance floodplain. A copy of the map can be found in the appendix.



PROJECT LOCATION MAP

DRAINAGE CRITERIA

In accordance with the requirements of the City of Bryant, the proposed developments drainage plan and this drainage report were developed with the criteria established in the Bryant Stormwater Management & Drainage Manual provided on cityofbryant.com.

All drainage calculations were performed using HydroCAD software to determine and analyze the changes in stormrunoff volume, flow rates, and design the outlet release structure. Hydraflow Express software was used to appropriately design and size all storm sewer inlets, pipes and channels.

Calculations were performed using the Rational Method, using NOAA rainfall data, Runoff Coefficient table (Bryant Stormwater Management & Drainage Manual, Table 400-2) and the pipe and inlet structure sizes were determined by the 25-year storm event.

PROPOSED DRAINAGE SYSTEM

This development is designed to capture the majority of runoff within the parking lot curb and gutter. A portion of the site will discharge into a standard storm sewer system, releasing into the existing adjacent storm sewer. Other portions of the new development will either be captured by gutter/downspouts or curb/gutter and released to minor bioswales located withing the greenspace of the project. There is one located in the front of lot by Highway 5, releasing towards Midland Road. The other is behind the new building, releasing to the north. These release points are similar to the predevelopment conditions of this site.

These are small, highly vegetated, flat areas intended to slow the flow of stormwater and filter pollutants to aid in offsetting some of the increase of stormwater runoff caused by the new development.

The storm sewer system will consist of standard concrete curb inlets. These inlets were sized based on their independent drainage basin flow rate and the slope that the inlets will be placed at. The New Beginnings storm sewer system will tie-into the Bryant Seminary existing storm sewer system. The stormwater will ultimately be discharged to the north side of the property into the floodplain.

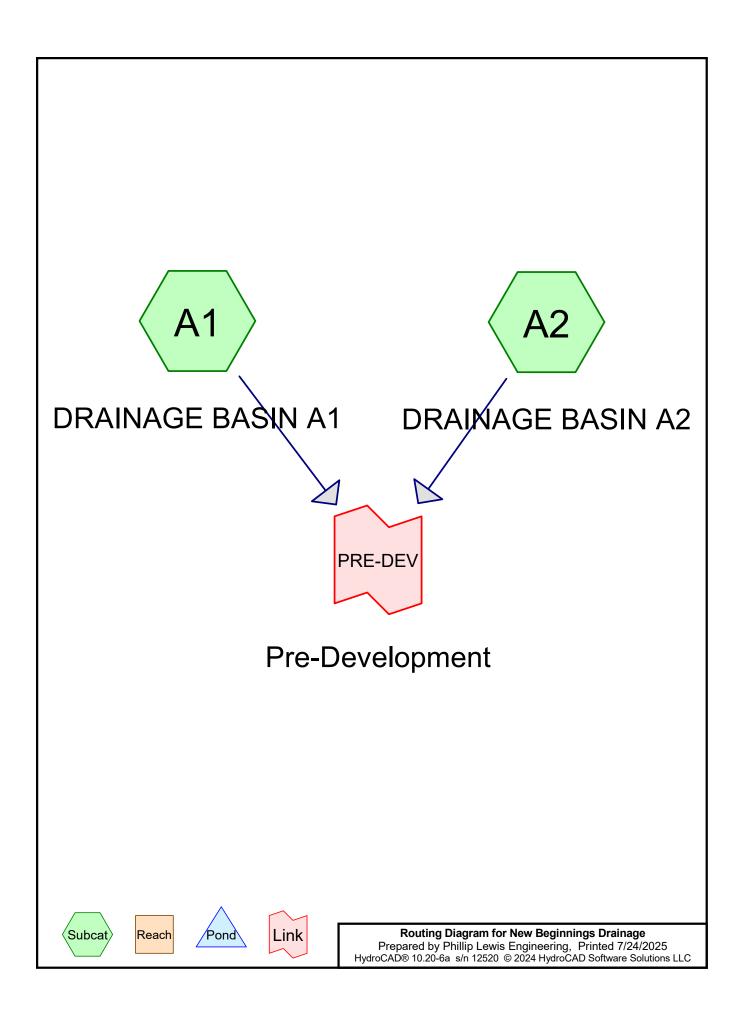
Overall Pre-development and Post-development runoff/discharge rates are compared below:

Storm Event	Pre-development Discharge (cfs)	Post-development Discharge (cfs) Without Detention	
2-yr	1.30	4.37	
10-yr	1.74	5.85	
25-yr	2.01	6.81	
50-yr	2.20	7.40	
100-yr	2.38	8.03	

Hydraulic grade elevations for the inlets are shown below:

Inlet	Peak Elevation (25-yr Storm Event)
CI – A1	369.08'
CI – A2	368.89'

PRE DEVELOPMENT HYDROGRAPHS



Summary for Subcatchment A1: DRAINAGE BASIN A1

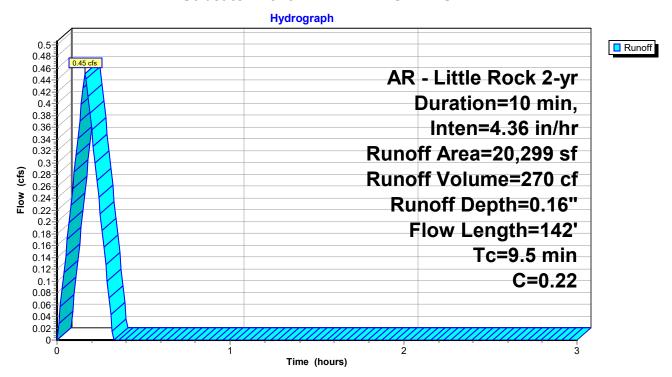
Runoff = 0.45 cfs @ 0.16 hrs, Volume= 270 cf, Depth= 0.16"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

	Α	rea (sf)	С	Description	1		
20,299 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		20,299		100.00% P	ervious Are	ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	9.2	100	0.0430	0.18	,	Sheet Flow, Overland Sheet flow	
	0.3	42	0.1410	2.63		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
	9.5	142	Total				

Subcatchment A1: DRAINAGE BASIN A1



Summary for Subcatchment A2: DRAINAGE BASIN A2

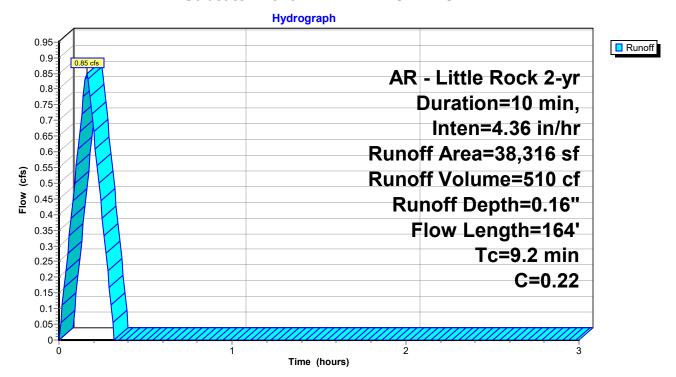
Runoff = 0.85 cfs @ 0.16 hrs, Volume= 510 cf, Depth= 0.16"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

	Α	rea (sf)	С	Description	1	
-		38,316	0.22	Sandy Soil	2-7% per r	manual (undeveloped)
		38,316		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
-	8.3	100	0.0560			Sheet Flow, Overland Sheet flow
	0.9	64	0.0320	1.25		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps
	9.2	164	Total	•		

Subcatchment A2: DRAINAGE BASIN A2



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Summary for Link PRE-DEV: Pre-Development

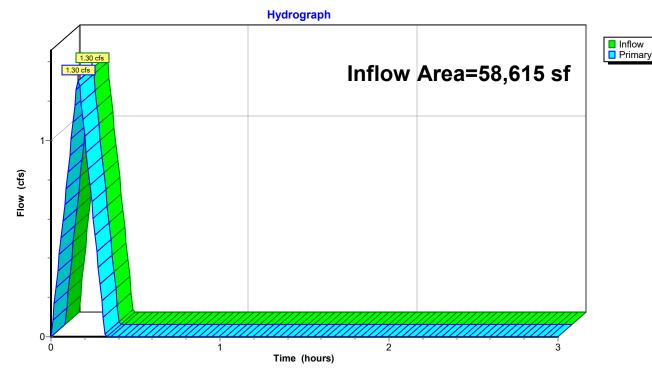
Inflow Area = 58,615 sf, 0.00% Impervious, Inflow Depth = 0.16" for 2-yr event

Inflow = 1.30 cfs @ 0.16 hrs, Volume= 780 cf

Primary = 1.30 cfs @ 0.16 hrs, Volume= 780 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

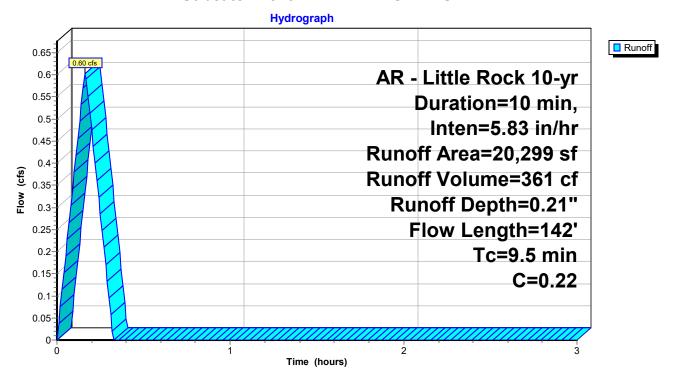
Runoff = 0.60 cfs @ 0.16 hrs, Volume= 361 cf, Depth= 0.21"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

	Α	rea (sf)	С	Description	1		
20,299 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		20,299		100.00% P	ervious Are	ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	9.2	100	0.0430	0.18	,	Sheet Flow, Overland Sheet flow	
	0.3	42	0.1410	2.63		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
	9.5	142	Total				

Subcatchment A1: DRAINAGE BASIN A1



Printed 7/24/2025

New Beginnings Drainage

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Summary for Subcatchment A2: DRAINAGE BASIN A2

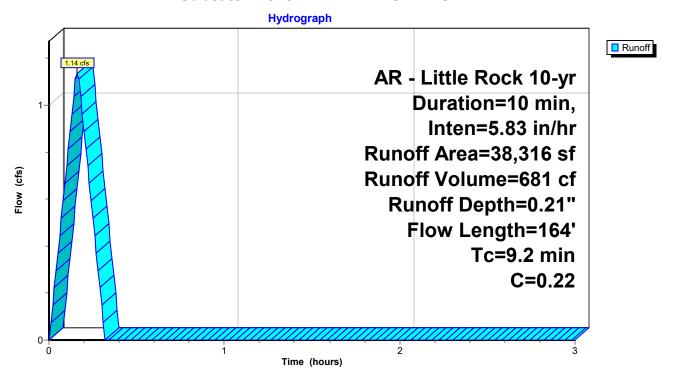
Runoff = 1.14 cfs @ 0.16 hrs, Volume= 681 cf, Depth= 0.21"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

	Α	rea (sf)	С	Description	1		
38,316 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		38,316		100.00% P	ervious Are	ea ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	8.3	100	0.0560	0.20	,	Sheet Flow, Overland Sheet flow	
	0.9	64	0.0320	1.25		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
_	92	164	Total	•			

Subcatchment A2: DRAINAGE BASIN A2



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Summary for Link PRE-DEV: Pre-Development

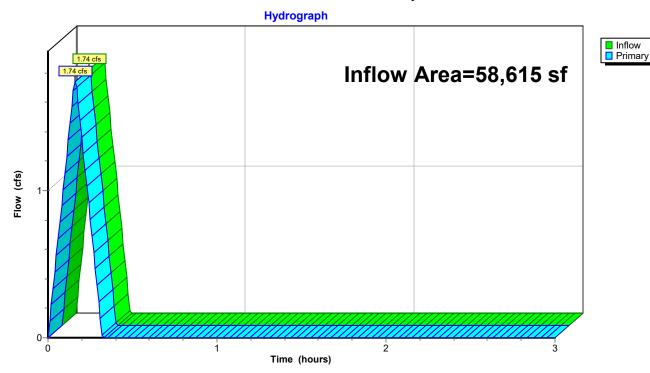
Inflow Area = 58,615 sf, 0.00% Impervious, Inflow Depth = 0.21" for 10-yr event

Inflow = 1.74 cfs @ 0.16 hrs, Volume= 1,043 cf

Primary = 1.74 cfs @ 0.16 hrs, Volume= 1,043 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

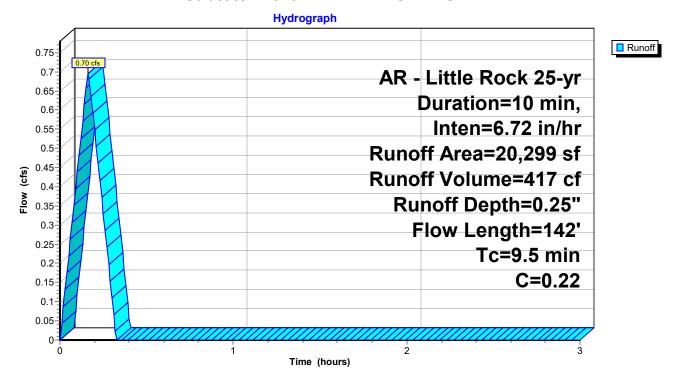
Runoff = 0.70 cfs @ 0.16 hrs, Volume= 417 cf, Depth= 0.25"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

	Α	rea (sf)	С	Description	1		
20,299 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		20,299		100.00% P	ervious Are	ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	9.2	100	0.0430	0.18	,	Sheet Flow, Overland Sheet flow	
	0.3	42	0.1410	2.63		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
	9.5	142	Total				

Subcatchment A1: DRAINAGE BASIN A1



Summary for Subcatchment A2: DRAINAGE BASIN A2

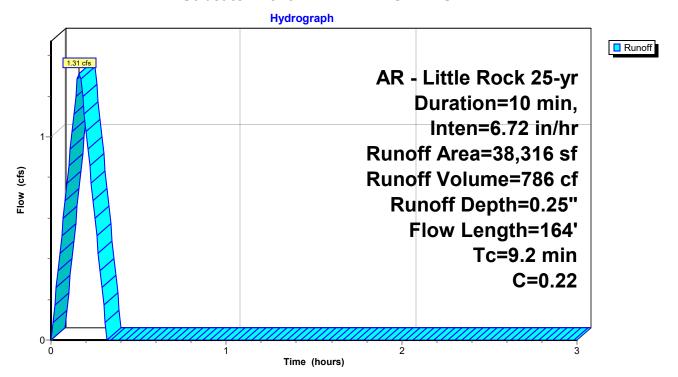
Runoff = 1.31 cfs @ 0.16 hrs, Volume= 786 cf, Depth= 0.25"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

	Α	rea (sf)	С	Description	1	
	nanual (undeveloped)					
		38,316		100.00% P	ervious Are	ea
Tc Length Slope Velocity Cap (min) (feet) (ft/ft) (ft/sec)					Capacity (cfs)	Description
-	8.3	100	0.0560		(0.0)	Sheet Flow, Overland Sheet flow
	0.9	64	0.0320	1.25		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps
	92	164	Total	•		

Subcatchment A2: DRAINAGE BASIN A2



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Summary for Link PRE-DEV: Pre-Development

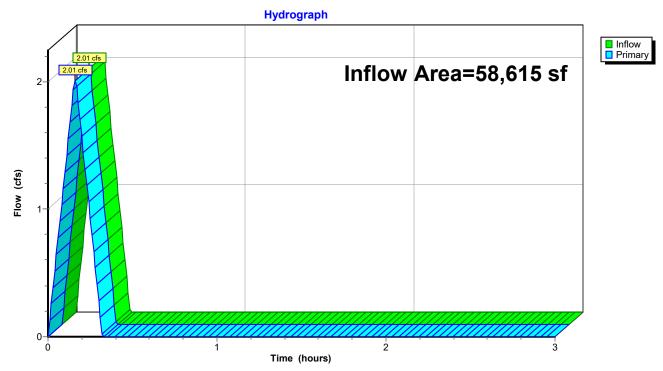
Inflow Area = 58,615 sf, 0.00% Impervious, Inflow Depth = 0.25" for 25-yr event

Inflow = 2.01 cfs @ 0.16 hrs, Volume= 1,203 cf

Primary = 2.01 cfs @ 0.16 hrs, Volume= 1,203 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

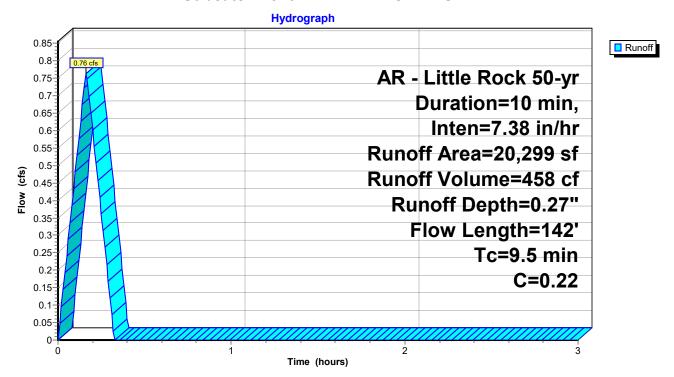
Runoff = 0.76 cfs @ 0.16 hrs, Volume= 458 cf, Depth= 0.27"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=10 min, Inten=7.38 in/hr

	A	rea (sf)	С	Description	า	
-		20,299	0.22	Sandy Soil	2-7% per r	manual (undeveloped)
-		20,299		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
-	9.2	100	0.0430		, ,	Sheet Flow, Overland Sheet flow
	0.3	42	0.1410	2.63		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps
_	9.5	142	Total	•	•	

Subcatchment A1: DRAINAGE BASIN A1



Summary for Subcatchment A2: DRAINAGE BASIN A2

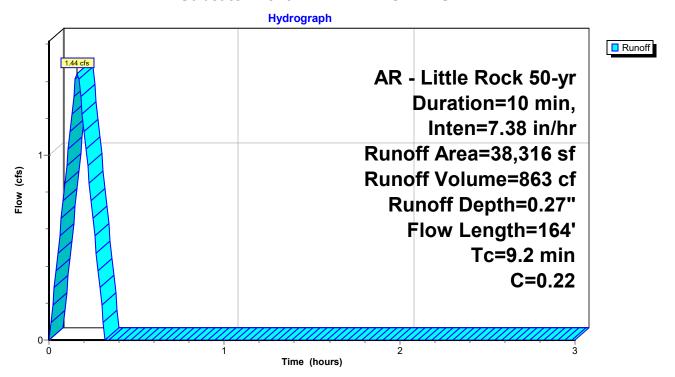
Runoff = 1.44 cfs @ 0.16 hrs, Volume= 863 cf, Depth= 0.27"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=10 min, Inten=7.38 in/hr

	Α	rea (sf)	С	Description	1		
38,316 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		38,316		100.00% P	ervious Are	ea ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	8.3	100	0.0560	0.20	,	Sheet Flow, Overland Sheet flow	
	0.9	64	0.0320	1.25		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
_	92	164	Total	•			

Subcatchment A2: DRAINAGE BASIN A2



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Summary for Link PRE-DEV: Pre-Development

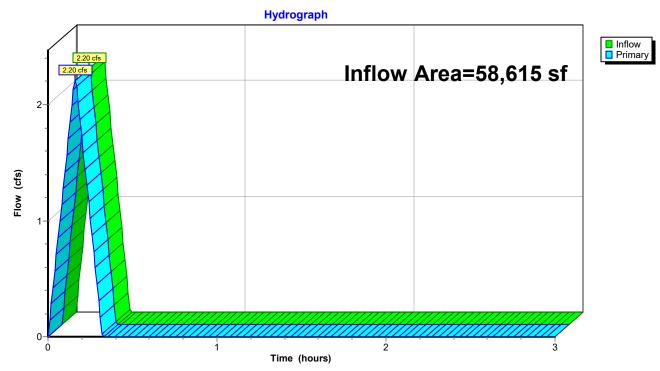
Inflow Area = 58,615 sf, 0.00% Impervious, Inflow Depth = 0.27" for 50-yr event

Inflow = 2.20 cfs @ 0.16 hrs, Volume= 1,321 cf

Primary = 2.20 cfs @ 0.16 hrs, Volume= 1,321 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

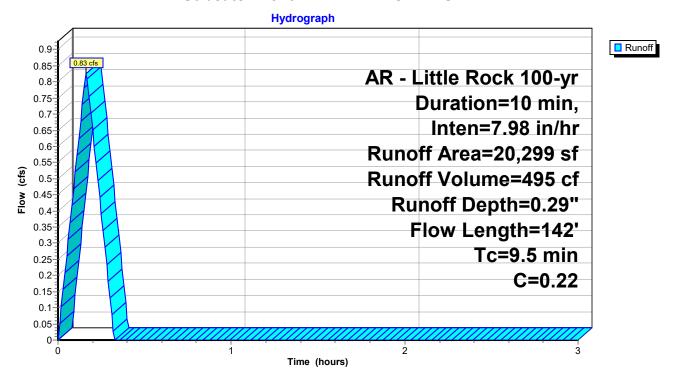
Runoff = 0.83 cfs @ 0.16 hrs, Volume= 495 cf, Depth= 0.29"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

	Α	rea (sf)	С	Description	1		
20,299 0.22 Sandy Soil 2-7% per manual (undeveloped)							
_		20,299		100.00% P	ervious Are	ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
-	9.2	100	0.0430	0.18	,	Sheet Flow, Overland Sheet flow	
	0.3	42	0.1410	2.63		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps	
	9.5	142	Total				

Subcatchment A1: DRAINAGE BASIN A1



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Summary for Subcatchment A2: DRAINAGE BASIN A2

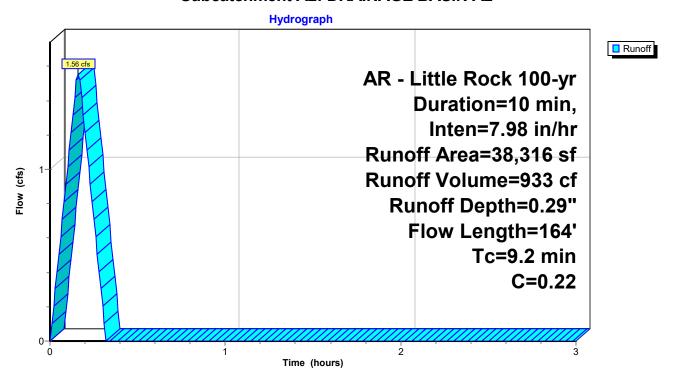
Runoff = 1.56 cfs @ 0.16 hrs, Volume= 933 cf, Depth= 0.29"

Routed to Link PRE-DEV: Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

	Α	rea (sf)	С	Description	1	
		38,316	0.22	Sandy Soil	2-7% per r	nanual (undeveloped)
		38,316		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description
-	8.3	100	0.0560		(0.0)	Sheet Flow, Overland Sheet flow
	0.9	64	0.0320	1.25		Grass: Dense n= 0.240 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Flow Short Grass Pasture Kv= 7.0 fps
	92	164	Total	•		

Subcatchment A2: DRAINAGE BASIN A2



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Summary for Link PRE-DEV: Pre-Development

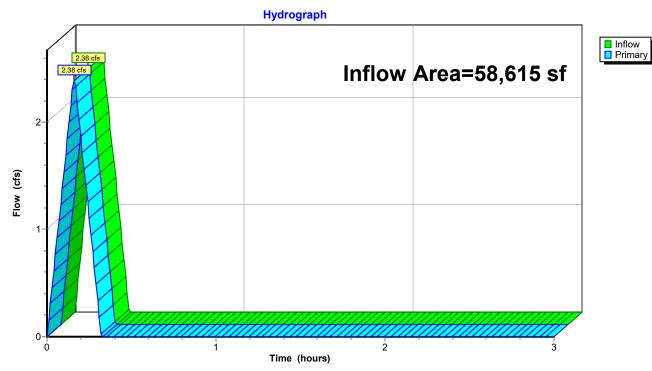
Inflow Area = 58,615 sf, 0.00% Impervious, Inflow Depth = 0.29" for 100-yr event

Inflow = 2.38 cfs @ 0.16 hrs, Volume= 1,428 cf

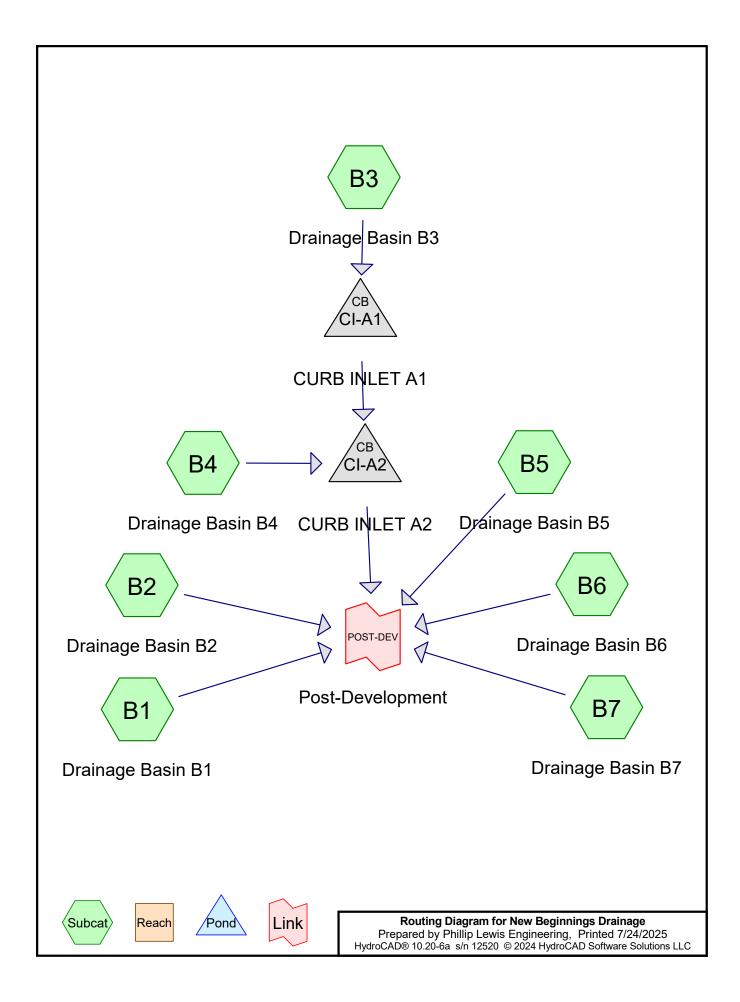
Primary = 2.38 cfs @ 0.16 hrs, Volume= 1,428 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development



POST DEVELOPMENT HYDROGRAPHS



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Summary for Subcatchment B1: Drainage Basin B1

Runoff = 0.10 cfs @ 0.09 hrs, Volume= 36 cf, I

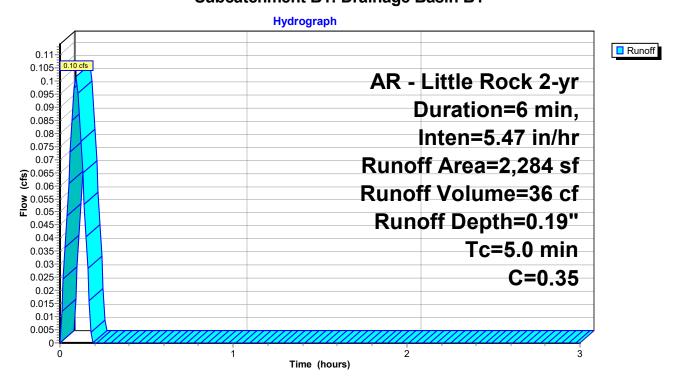
36 cf, Depth= 0.19"

Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

A	rea (sf)	С	Description	1	
	2,284	0.35	Sandy Soil	2-7% per r	manual
	0	0.92	Paved Area	as	
	2,284	0.35	Weighted A	Average	
	2,284		100.00% P	ervious Are	ea
_				_	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
5.0	-				Direct Entry, Minimum Adjustment

Subcatchment B1: Drainage Basin B1



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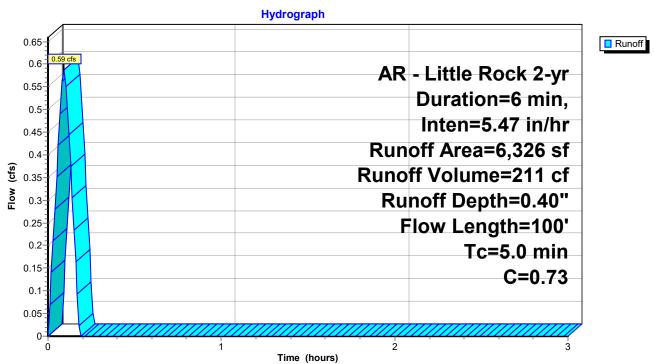
Summary for Subcatchment B2: Drainage Basin B2

Runoff = 0.59 cfs @ 0.09 hrs, Volume= 211 cf, Depth= 0.40" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

A	rea (sf)	С	Description	1	
	2,115	0.35	Sandy Soil	2-7% per r	manual
	4,211	0.92	Paved Area	as	
	6,326	0.73	Weighted A	Average	
	6,326		100.00% P	ervious Are	ea
Tc	Length	Slope		Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	42	0.1667	3.09		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
4.3					Direct Entry, Minimum Adjustment
5.0	100	Total			

Subcatchment B2: Drainage Basin B2



Prepared by Phillip Lewis Engineering

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Summary for Subcatchment B3: Drainage Basin B3

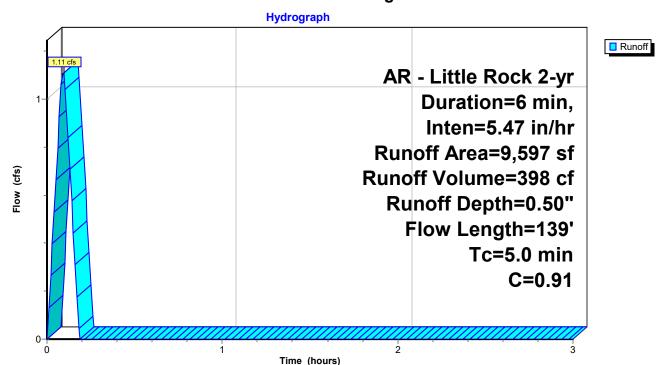
Runoff = 1.11 cfs @ 0.09 hrs, Volume= 398 cf, Depth= 0.50"

Routed to Pond CI-A1: CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

	Area (sf)	С	Description	1	
	155	0.35	Sandy Soil	2-7% per r	manual
	9,442	0.92	Paved Are	as	
	9,597	0.91	Weighted /	Average	
	9,597		100.00% P	ervious Are	ea
To	3	Slope		Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	28	0.1667	2.85		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	. 30	0.0160	1.13		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	. 41	0.0520	1.93		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	40	0.0360	3.85		Shallow Concentrated Flow, Gutter Flow
					Paved Kv= 20.3 fps
3.8	}				Direct Entry, Minimum Adjustment
5.0	139	Total			

Subcatchment B3: Drainage Basin B3



Prepared by Phillip Lewis Engineering

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Summary for Subcatchment B4: Drainage Basin B4

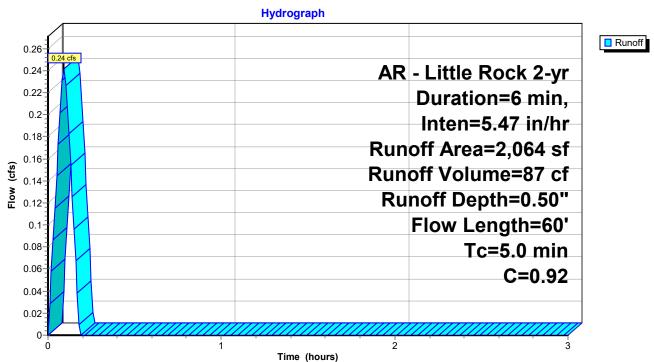
Runoff = 0.24 cfs @ 0.09 hrs, Volume= 87 cf, Depth= 0.50"

Routed to Pond CI-A2: CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

_	Aı	rea (sf)	С	Description	1	
		0	0.35 Sandy Soil 2-7% per m			manual
		2,064	0.92	Paved Area	as	
		2,064	0.92	Weighted A	Average	
		2,064		100.00% P	ervious Are	ea
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	0.6	45	0.0170	1.26		Sheet Flow, Asphalt Sheet Flow
						Smooth surfaces n= 0.011 P2= 4.20"
	0.0	15	0.0840	5.88		Shallow Concentrated Flow, Gutter Flow
						Paved Kv= 20.3 fps
	4.4					Direct Entry, Minimum Adjustment
	5.0	60	Total			

Subcatchment B4: Drainage Basin B4



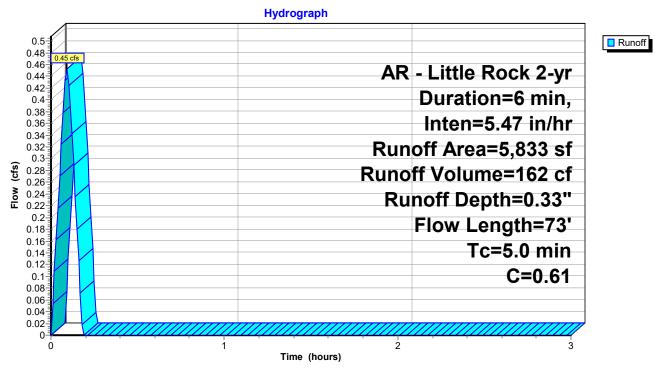
Summary for Subcatchment B5: Drainage Basin B5

Runoff = 0.45 cfs @ 0.09 hrs, Volume= 162 cf, Depth= 0.33" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

 Aı	rea (sf)	С	Description	1	
	3,123	0.35	Sandy Soil 2-7% per manual		
	2,710	0.92	Paved Area	as ·	
	5,833	0.61	Weighted A	Average	
	5,833		100.00% P	ervious Are	ea
Tc	Length	Slope	Velocity	Capacity	Description
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.1	18	0.1667	2.61		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated
					Short Grass Pasture Kv= 7.0 fps
4.5					Direct Entry, Minimum Adjustment
5.0	73	Total			

Subcatchment B5: Drainage Basin B5



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Summary for Subcatchment B6: Drainage Basin B6

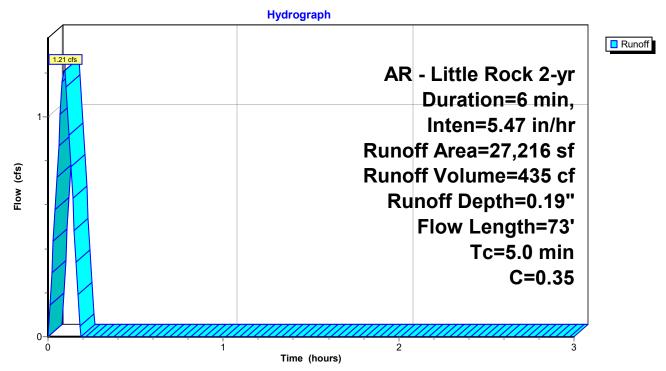
Runoff = 1.21 cfs @ 0.09 hrs, Volume= 435 cf, Depth= 0.19"

Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

	Α	rea (sf)	С	Description	ĺ		
		27,216	0.35	Sandy Soil	2-7% per r	manual	
		27,216		100.00% P	0% Pervious Area		
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	0.1	18	0.1667	2.61	, ,	Sheet Flow, Rooftop	
						Smooth surfaces n= 0.011 P2= 4.20"	
	0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated	
	15					Short Grass Pasture Kv= 7.0 fps	
_	4.5					Direct Entry, Minimum Adjustment	
	5.0	73	Total				

Subcatchment B6: Drainage Basin B6



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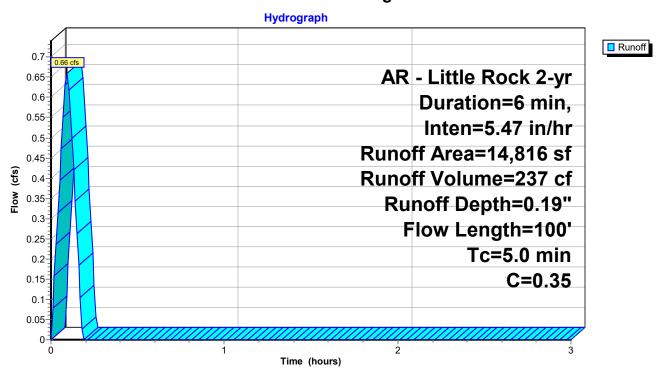
Summary for Subcatchment B7: Drainage Basin B7

Runoff = 0.66 cfs @ 0.09 hrs, Volume= 237 cf, Depth= 0.19" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr

Α	rea (sf)	С	Description	1	
	14,816	0.35	Sandy Soil	2-7% per r	manual
	14,816		100.00% P	ervious Are	ea
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	42	0.1667	3.09		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
4.3					Direct Entry, Minimum Adjustment
5.0	100	Total			

Subcatchment B7: Drainage Basin B7



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Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 9,597 sf, 0.00% Impervious, Inflow Depth = 0.50" for 2-yr event

Inflow = 1.11 cfs @ 0.09 hrs, Volume= 398 cf

Outflow = 1.11 cfs @ 0.09 hrs, Volume= 398 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.11 cfs @ 0.09 hrs, Volume= 398 cf

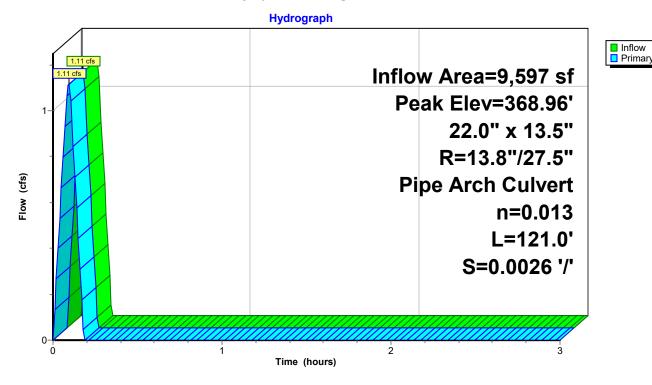
Routed to Pond CI-A2: CURB INLET A2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.96' @ 0.09 hrs

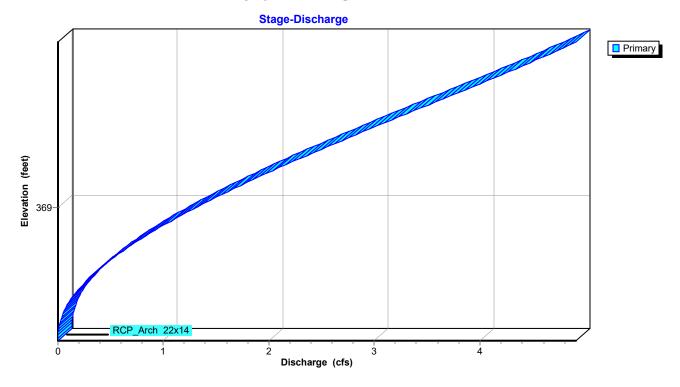
Device	Routing	Invert	Outlet Devices
	Primary	368.50'	22.0" W x 13.5" H, R=13.8"/27.5" Pipe Arch RCP_Arch 22x14 L= 121.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.50' / 368.19' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.65 sf

Primary OutFlow Max=1.11 cfs @ 0.09 hrs HW=368.96' (Free Discharge) 1=RCP_Arch 22x14 (Barrel Controls 1.11 cfs @ 2.30 fps)

Pond CI-A1: CURB INLET A1



Pond CI-A1: CURB INLET A1



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
368.50	0	369.02	0	369.54	0
368.51	0	369.03	0	369.55	0
368.52	0	369.04	0	369.56	0
368.53	0	369.05	0	369.57	0
368.54	0	369.06	0	369.58	0
368.55	0	369.07	0	369.59	0
368.56	0	369.08	0	369.60	0
368.57 368.58	0	369.09	0	369.61	0 0
368.58 368.59	0 0	369.10 369.11	0 0	369.62	U
368.60	0	369.11	0		
368.61	0	369.13	0		
368.62	0	369.14	0		
368.63	Ö	369.15	Ö		
368.64	0	369.16	0		
368.65	0	369.17	0		
368.66	0	369.18	0		
368.67	0	369.19	0		
368.68	0	369.20	0		
368.69	0	369.21	0		
368.70	0	369.22	0		
368.71	0	369.23	0		
368.72	0	369.24	0		
368.73 368.74	0 0	369.25 369.26	0 0		
368.75	0	369.27	0		
368.76	0	369.28	0		
368.77	0	369.29	0		
368.78	Ő	369.30	Ö		
368.79	0	369.31	0		
368.80	0	369.32	0		
368.81	0	369.33	0		
368.82	0	369.34	0		
368.83	0	369.35	0		
368.84	0	369.36	0		
368.85	0	369.37	0		
368.86	0 0	369.38	0 0		
368.87 368.88	0	369.39 369.40	0		
368.89	0	369.41	0		
368.90	0	369.42	0		
368.91	Ö	369.43	ő		
368.92	0	369.44	0		
368.93	0	369.45	0		
368.94	0	369.46	0		
368.95	0	369.47	0		
368.96	0	369.48	0		
368.97	0	369.49	0		
368.98	0	369.50	0		
368.99	0	369.51	0		
369.00 369.01	0 0	369.52 369.53	0 0		
308.01	U	308.33	0		
		I			

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Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 11,661 sf, 0.00% Impervious, Inflow Depth = 0.50" for 2-yr event

Inflow = 1.35 cfs @ 0.09 hrs, Volume= 485 cf

Outflow = 1.35 cfs @ 0.09 hrs, Volume= 485 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.35 cfs @ 0.09 hrs, Volume= 485 cf

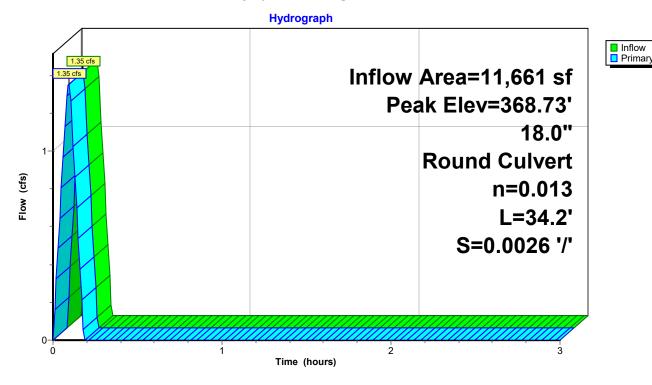
Routed to Link POST-DEV: Post-Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.73' @ 0.09 hrs

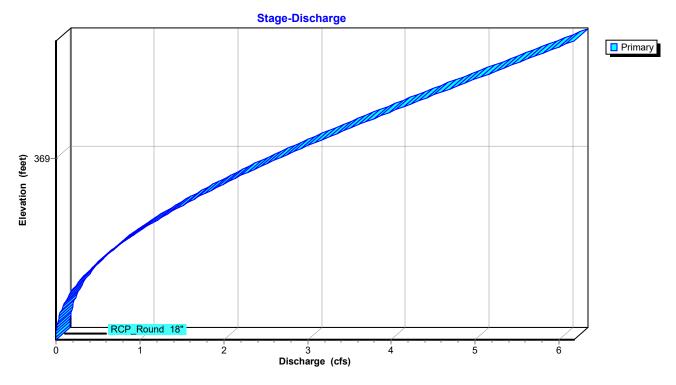
Device	Routing	Invert	Outlet Devices
#1	Primary	368.09'	18.0" Round RCP_Round 18"
			L= 34.2' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 368.09' / 368.00' S= 0.0026 '/' Cc= 0.900
			n= 0.013, Flow Area= 1.77 sf

Primary OutFlow Max=1.35 cfs @ 0.09 hrs HW=368.73' (Free Discharge) 1=RCP_Round 18" (Barrel Controls 1.35 cfs @ 2.78 fps)

Pond CI-A2: CURB INLET A2



Pond CI-A2: CURB INLET A2



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

			<u> </u>		
Elevation	Storage	Elevation	Storage	Elevation	Storage
(feet)	(cubic-feet)	(feet)	(cubic-feet)	(feet)	(cubic-feet)
368.09	0	368.61	0	369.13	0
368.10	0	368.62	0	369.14	0
368.11	0	368.63	0	369.15	0
368.12	0	368.64	0	369.16	0
368.13	0	368.65	0	369.17	0
368.14	0	368.66	0	369.18	0
368.15	0	368.67	0	369.19	0
368.16	0	368.68	0	369.20	0
368.17	0	368.69	0	369.21	0
368.18 368.19	0 0	368.70 368.71	0 0	369.22 369.23	0 0
368.20	0	368.72	0	369.23 369.24	0
368.21	0	368.73	0	369.25	0
368.22	0	368.74	0	369.26	0
368.23	0	368.75	0	369.27	0
368.24	0	368.76	0	369.28	0
368.25	0	368.77	0	369.29	0
368.26	0	368.78	0	369.30	0
368.27	0	368.79	0	369.31	0
368.28	0	368.80	Ö	369.32	0
368.29	0	368.81	Ö	369.33	Ö
368.30	Ö	368.82	ő	369.34	Ö
368.31	Ö	368.83	Ö	369.35	Ö
368.32	Ő	368.84	ő	369.36	Ö
368.33	Ö	368.85	Ö	369.37	Ő
368.34	0	368.86	0	369.38	0
368.35	Ō	368.87	0	369.39	0
368.36	0	368.88	0	369.40	0
368.37	0	368.89	0	369.41	0
368.38	0	368.90	0	369.42	0
368.39	0	368.91	0	369.43	0
368.40	0	368.92	0	369.44	0
368.41	0	368.93	0	369.45	0
368.42	0	368.94	0	369.46	0
368.43	0	368.95	0	369.47	0
368.44	0	368.96	0	369.48	0
368.45	0	368.97	0	369.49	0
368.46	0	368.98	0	369.50	0
368.47	0	368.99	0	369.51	0
368.48	0	369.00	0	369.52	0
368.49	0	369.01	0	369.53	0
368.50	0	369.02	0	369.54	0
368.51	0	369.03	0	369.55	0
368.52	0	369.04	0	369.56	0
368.53	0	369.05	0	369.57	0
368.54	0	369.06	0	369.58	0
368.55	0	369.07	0	369.59	0
368.56	0	369.08	0		
368.57	0	369.09	0		
368.58	0	369.10	0		
368.59 368.60	0 0	369.11 369.12	0		
300.00	U	JUS. 12	ا		
		l			

New Beginnings Drainage Prepared by Phillip Lewis Engineering

AR - Little Rock 2-yr Duration=6 min, Inten=5.47 in/hr Printed 7/24/2025

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Summary for Link POST-DEV: Post-Development

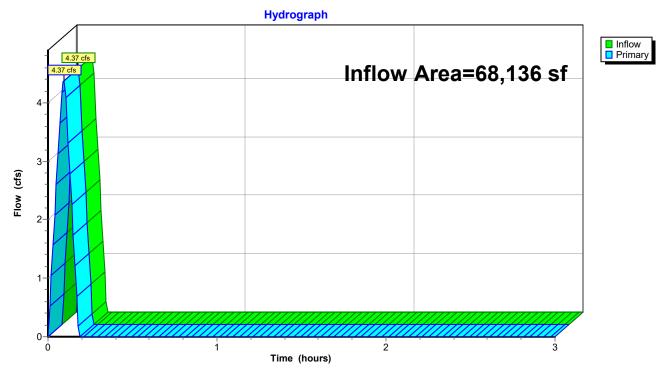
Inflow Area = 68,136 sf, 0.00% Impervious, Inflow Depth = 0.28" for 2-yr event

Inflow = 4.37 cfs @ 0.09 hrs, Volume= 1,566 cf

Primary = 4.37 cfs @ 0.09 hrs, Volume= 1,566 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development



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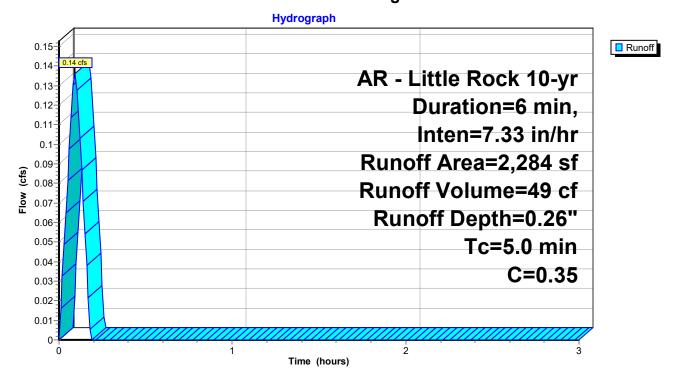
Summary for Subcatchment B1: Drainage Basin B1

Runoff = 0.14 cfs @ 0.09 hrs, Volume= 49 cf, Depth= 0.26" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

A	rea (sf)	С	Description	1				
	2,284	0.35	Sandy Soil	Sandy Soil 2-7% per manual				
	0	0.92	Paved Area	aved Areas				
	2,284	0.35	Weighted A	Veighted Average				
	2,284		100.00% P	100.00% Pervious Area				
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
5.0					Direct Entry, Minimum Adjustment			

Subcatchment B1: Drainage Basin B1



Summary for Subcatchment B2: Drainage Basin B2

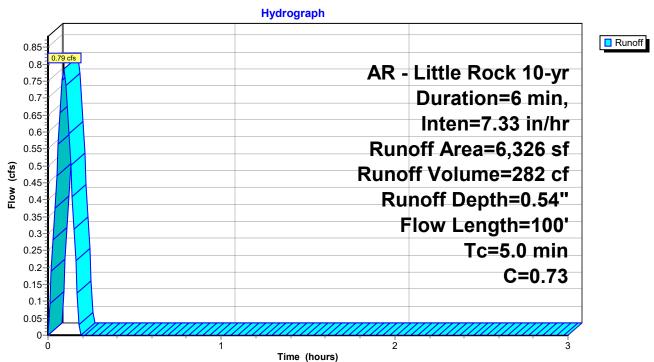
Runoff = 0.79 cfs @ 0.09 hrs, Volume= 282 cf, Depth= 0.54" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

 Aı	rea (sf)	С	Description	1	
	2,115	0.35	Sandy Soil	2-7% per r	manual
	4,211	0.92	Paved Are	as	
	6,326	0.73	Weighted /	Average	
	6,326		100.00% P	ervious Are	ea
Tc	Length	Slope	Velocity	Capacity	Description
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	42	0.1667	3.09		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
 4.3					Direct Entry, Minimum Adjustment
 5.0	100	Total	·	·	

Subcatchment B2: Drainage Basin B2



Summary for Subcatchment B3: Drainage Basin B3

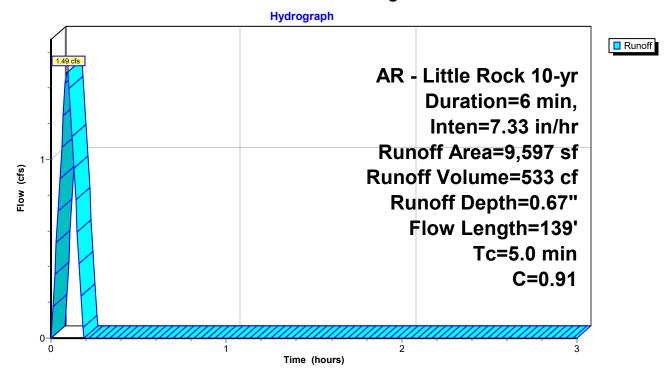
Runoff = 1.49 cfs @ 0.10 hrs, Volume= 533 cf, Depth= 0.67"

Routed to Pond CI-A1: CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

	Area (sf)	С	Description	1	
	155	0.35	Sandy Soil	2-7% per r	manual
	9,442	0.92	Paved Are	as	
	9,597	0.91	Weighted /	Average	
	9,597		100.00% P	ervious Are	ea
To	3	Slope		Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	28	0.1667	2.85		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	. 30	0.0160	1.13		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	. 41	0.0520	1.93		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	40	0.0360	3.85		Shallow Concentrated Flow, Gutter Flow
					Paved Kv= 20.3 fps
3.8	}				Direct Entry, Minimum Adjustment
5.0	139	Total			

Subcatchment B3: Drainage Basin B3



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Summary for Subcatchment B4: Drainage Basin B4

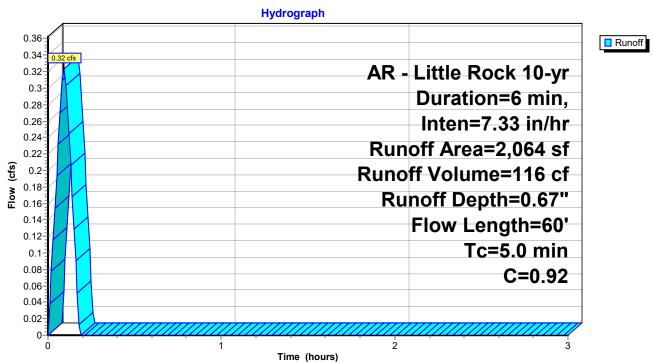
Runoff = 0.32 cfs @ 0.09 hrs, Volume= 116 cf, Depth= 0.67"

Routed to Pond CI-A2: CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

	Aı	rea (sf)	С	Description	1	
		0	0.35	Sandy Soil	2-7% per r	manual
		2,064	0.92	Paved Area	as	
		2,064	0.92	Weighted A	Average	
		2,064		100.00% P	ervious Are	ea
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	'
	0.6	45	0.0170	1.26		Sheet Flow, Asphalt Sheet Flow
						Smooth surfaces n= 0.011 P2= 4.20"
	0.0	15	0.0840	5.88		Shallow Concentrated Flow, Gutter Flow
						Paved Kv= 20.3 fps
_	4.4					Direct Entry, Minimum Adjustment
	5.0	60	Total			

Subcatchment B4: Drainage Basin B4



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Summary for Subcatchment B5: Drainage Basin B5

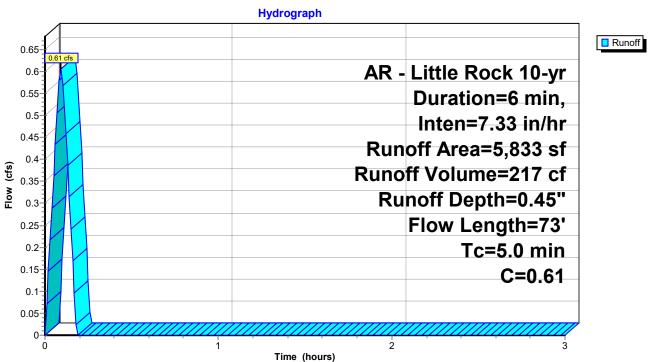
Runoff = 0.61 cfs @ 0.09 hrs, Volume= 217 cf, Depth= 0.45"

Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

_	Aı	rea (sf)	С	Description	1						
		3,123	0.35	Sandy Soil	Sandy Soil 2-7% per manual						
_		2,710	0.92	Paved Area	as						
		5,833	0.61	Weighted A	Average						
		5,833		100.00% P	ervious Are	ea					
	Тс	Length	Slope	Slope Velocity Capacity Description							
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	0.1	18	0.1667	2.61		Sheet Flow, Rooftop					
						Smooth surfaces n= 0.011 P2= 4.20"					
	0.4	55	0.0860	860 2.05 Shallow Concentrated Flow, Overland Conc							
						Short Grass Pasture Kv= 7.0 fps					
_	4.5					Direct Entry, Minimum Adjustment					
	5.0	73	Total								

Subcatchment B5: Drainage Basin B5



Prepared by Phillip Lewis Engineering

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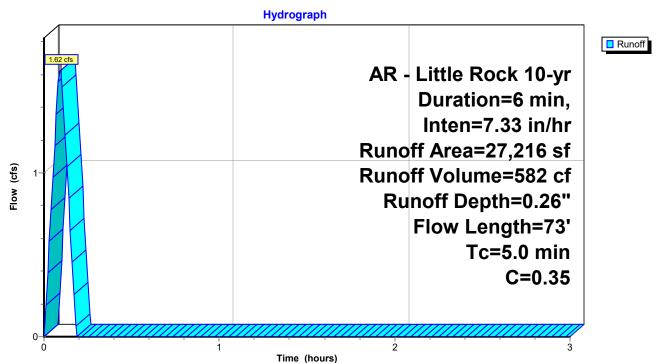
Summary for Subcatchment B6: Drainage Basin B6

Runoff = 1.62 cfs @ 0.09 hrs, Volume= 582 cf, Depth= 0.26" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

	Α	rea (sf)	С	Description	ĺ	
		27,216	0.35	Sandy Soil	2-7% per r	manual
		27,216		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	0.1	18	0.1667	2.61	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated
	4.5					Short Grass Pasture Kv= 7.0 fps Direct Entry, Minimum Adjustment
_	5.0	73	Total			Direct Entry, Millimani Adjustinent

Subcatchment B6: Drainage Basin B6



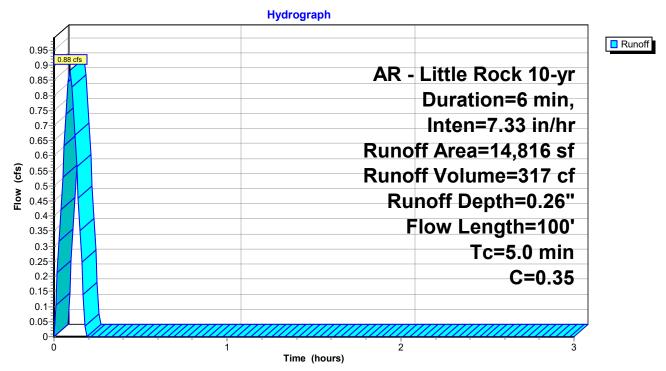
Summary for Subcatchment B7: Drainage Basin B7

Runoff = 0.88 cfs @ 0.09 hrs, Volume= 317 cf, Depth= 0.26" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 10-yr Duration=6 min, Inten=7.33 in/hr

	Α	rea (sf)	С	Description		
		14,816	0.35	Sandy Soil	2-7% per r	manual
		14,816		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
•	0.2	42	0.1667	3.09	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
	4.3					Smooth surfaces n= 0.011 P2= 4.20" Direct Entry, Minimum Adjustment
-	4.3					Direct Entry, willimum Aujustment
	5.0	100	Total			

Subcatchment B7: Drainage Basin B7



Prepared by Phillip Lewis Engineering

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Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 9,597 sf, 0.00% Impervious, Inflow Depth = 0.67" for 10-yr event

Inflow = 1.49 cfs @ 0.10 hrs, Volume= 533 cf

Outflow = 1.49 cfs @ 0.09 hrs, Volume= 533 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.49 cfs @ 0.09 hrs, Volume= 533 cf

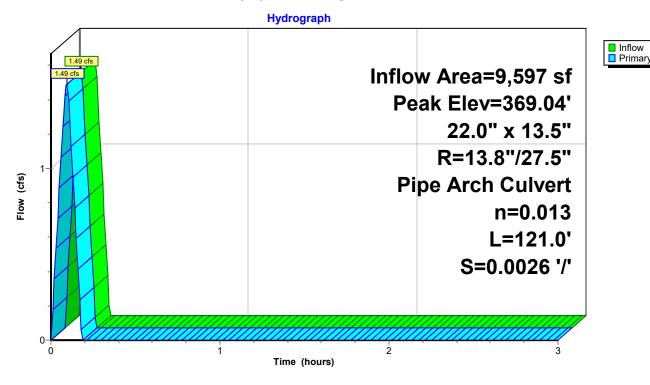
Routed to Pond CI-A2: CURB INLET A2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 369.04' @ 0.09 hrs

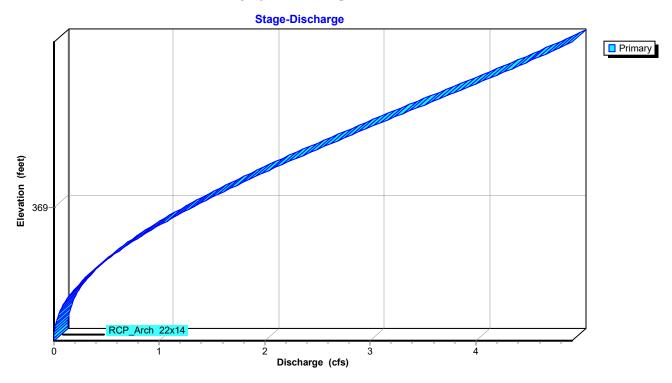
Device	Routing	Invert	Outlet Devices
#1	Primary	368.50'	22.0" W x 13.5" H, R=13.8"/27.5" Pipe Arch RCP_Arch 22x14 L= 121.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.50' / 368.19' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.65 sf

Primary OutFlow Max=1.48 cfs @ 0.09 hrs HW=369.04' (Free Discharge) 1=RCP_Arch 22x14 (Barrel Controls 1.48 cfs @ 2.53 fps)

Pond CI-A1: CURB INLET A1



Pond CI-A1: CURB INLET A1



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

1885 1885	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
388.51 368.52 0 369.04 0 369.56 0 369.56 0 369.57 0 368.54 0 369.05 0 369.57 0 369.59 0 368.55 0 369.07 0 369.59 0 369.59 0 368.57 0 369.09 0 369.59 0 369.60 0 369.60 0 369.60 0 369.60 0 369.60 0 369.61 0 368.57 0 369.09 0 369.61 0 369.62 0 369.62 0 369.62 0 369.63 0 369.61 0 369.62 0 369.61 0 369.62 0 369.62 0 369.61 0 369.62 0 369.62 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.67 0 369.68 0 369.69 0 369.60 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.67 0 369.68 0 369.77 0 368.66 0 369.20 0 368.67 0 369.20 0 368.70 0 369.21 0 368.70 0 369.22 0 368.71 0 369.25 0 368.71 0 369.25 0 368.72 0 369.26 0 369.27 0 368.73 0 369.25 0 368.74 0 369.26 0 369.37 0 368.75 0 369.30 0 369.31 0 368.76 0 369.32 0 368.77 0 369.32 0 368.87 0 369.35 0 368.87 0 369.30 0 369.31 0 368.88 0 369.37 0 369.30 0 369.31 0 368.89 0 369.31 0 368.89 0 369.31 0 368.80 0 369.32 0 368.81 0 369.35 0 368.81 0 369.35 0 368.82 0 369.37 0 368.83 0 369.35 0 368.84 0 369.35 0 368.85 0 369.37 0 368.86 0 369.37 0 368.87 0 369.38 0 369.39 0 368.89 0 369.41 0 369.39 0 368.89 0 369.47 0 369.49 0 368.99 0 369.41 0 369.90 0 369.42 0 368.99 0 369.47 0 369.90 0 369.91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
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Prepared by Phillip Lewis Engineering

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Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 11,661 sf, 0.00% Impervious, Inflow Depth = 0.67" for 10-yr event

Inflow = 1.81 cfs @ 0.09 hrs, Volume= 649 cf

Outflow = 1.81 cfs @ 0.09 hrs, Volume= 649 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.81 cfs @ 0.09 hrs, Volume= 649 cf

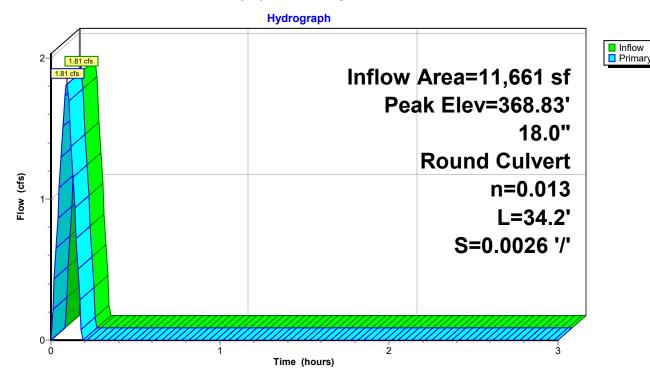
Routed to Link POST-DEV: Post-Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.83' @ 0.09 hrs

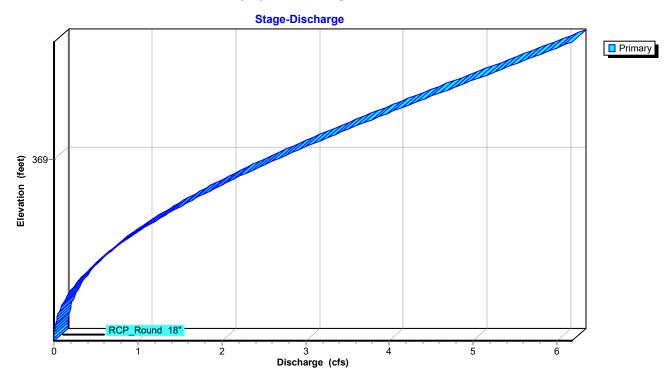
Device	Routing	Invert	Outlet Devices
#1	Primary	368.09'	18.0" Round RCP_Round 18" L= 34.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.09' / 368.00' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf

Primary OutFlow Max=1.80 cfs @ 0.09 hrs HW=368.83' (Free Discharge) 1=RCP_Round 18" (Barrel Controls 1.80 cfs @ 3.03 fps)

Pond CI-A2: CURB INLET A2



Pond CI-A2: CURB INLET A2



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

(feet	Elevation	Storage	Elevation	Storage	Elevation	Storage
388.10 0 368.62 0 369.15 0 368.11 0 368.63 0 369.15 0 368.12 0 368.64 0 369.16 0 368.13 0 368.65 0 369.18 0 368.14 0 368.66 0 369.18 0 368.15 0 368.66 0 369.19 0 368.16 0 368.68 0 369.20 0 368.17 0 368.69 0 369.21 0 368.18 0 368.70 0 369.23 0 368.19 0 368.72 0 369.24 0 368.21 0 368.73 0 369.25 0 368.21 0 368.75 0 369.26 0 368.23 0 368.76 0 369.28 0 368.24 0 368.76 0 369.29						
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368.52 0 369.04 0 369.56 0 368.53 0 369.05 0 369.57 0 368.54 0 369.06 0 369.58 0 368.55 0 369.07 0 369.59 0 368.56 0 369.08 0 368.57 0 369.09 0 368.58 0 369.10 0 368.59 0 369.11 0						
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368.58 0 369.10 0 368.59 0 369.11 0						
368.59 0 369.11 0						
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	000.00	9	000.12	•		

Summary for Link POST-DEV: Post-Development

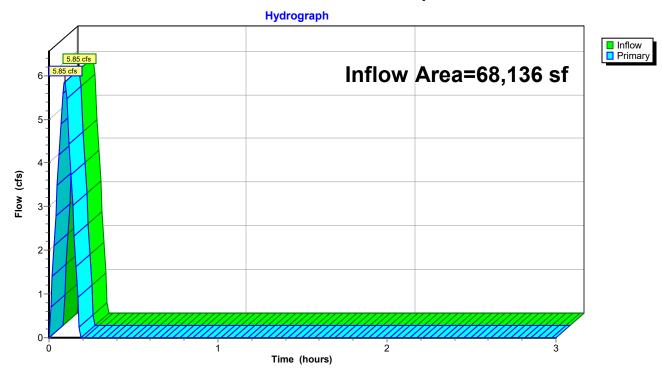
Inflow Area = 68,136 sf, 0.00% Impervious, Inflow Depth = 0.37" for 10-yr event

Inflow = 5.85 cfs @ 0.09 hrs, Volume= 2,096 cf

Primary = 5.85 cfs @ 0.09 hrs, Volume= 2,096 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development



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Summary for Subcatchment B1: Drainage Basin B1

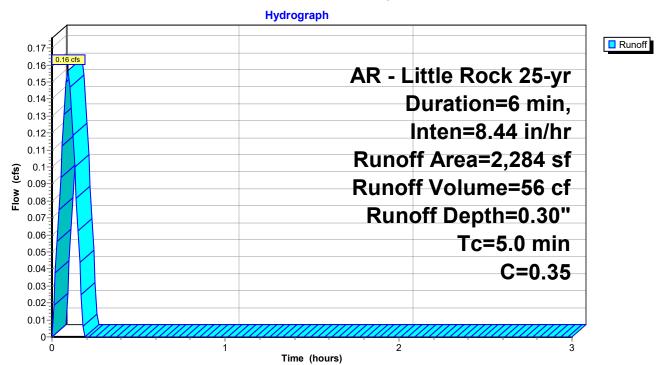
Runoff = 0.16 cfs @ 0.09 hrs, Volume= 56 cf, Depth= 0.30" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

A	rea (sf)	С	Description					
	2,284	0.35	Sandy Soil	Sandy Soil 2-7% per manual				
	0	0.92	Paved Area	Paved Areas				
	2,284	0.35	Weighted A	Veighted Average				
	2,284		100.00% P	ervious Are	ea			
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
5.0					Direct Entry, Minimum Adjustment			

Out and also and D4. During and D4 sin D4

Subcatchment B1: Drainage Basin B1



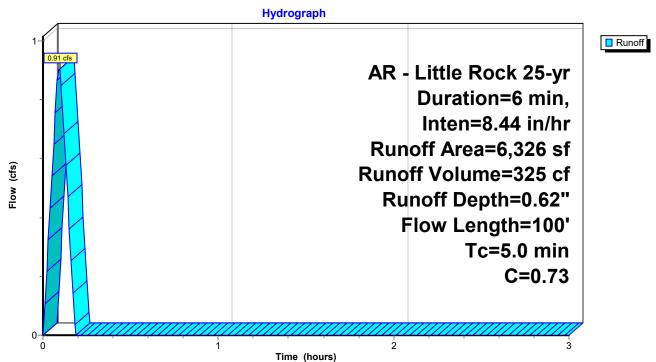
Summary for Subcatchment B2: Drainage Basin B2

Runoff = 0.91 cfs @ 0.09 hrs, Volume= 325 cf, Depth= 0.62" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

	Α	rea (sf)	С	Description	1					
		2,115	0.35	Sandy Soil	andy Soil 2-7% per manual					
		4,211	0.92	Paved Area	as					
		6,326	0.73	Weighted A	Veighted Average					
		6,326		100.00% P	ervious Are	ea				
	Tc	Length	Slope		Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	0.2	42	0.1667	3.09		Sheet Flow, Rooftop				
						Smooth surfaces n= 0.011 P2= 4.20"				
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow				
						Smooth surfaces n= 0.011 P2= 4.20"				
_	4.3					Direct Entry, Minimum Adjustment				
	5.0	100	Total							

Subcatchment B2: Drainage Basin B2



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Summary for Subcatchment B3: Drainage Basin B3

Runoff = 1.71 cfs @ 0.09 hrs, Volume= 614

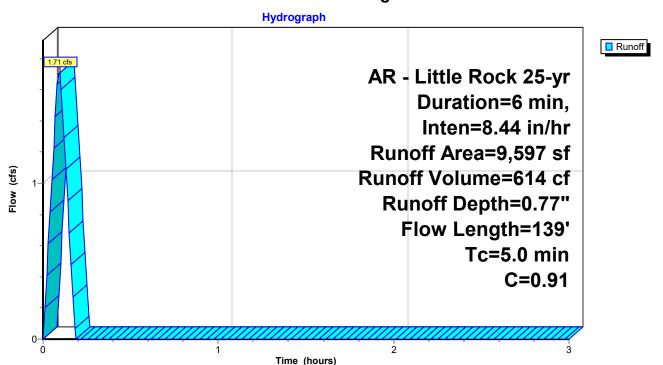
614 cf, Depth= 0.77"

Routed to Pond CI-A1: CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

	Area (sf)	С	Description	1						
	155	0.35	.35 Sandy Soil 2-7% per manual							
	9,442	0.92	Paved Are	Paved Areas						
	9,597	0.91	Weighted /	Veighted Average						
	9,597		100.00% P	ervious Are	ea					
To	3	Slope		Capacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
0.2	28	0.1667	2.85		Sheet Flow, Rooftop					
					Smooth surfaces n= 0.011 P2= 4.20"					
0.4	. 30	0.0160	1.13		Sheet Flow, Asphalt Sheet Flow					
					Smooth surfaces n= 0.011 P2= 4.20"					
0.4	. 41	0.0520	1.93		Sheet Flow, Asphalt Sheet Flow					
					Smooth surfaces n= 0.011 P2= 4.20"					
0.2	40	0.0360	3.85		Shallow Concentrated Flow, Gutter Flow					
					Paved Kv= 20.3 fps					
3.8	}				Direct Entry, Minimum Adjustment					
5.0	139	Total								

Subcatchment B3: Drainage Basin B3



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Summary for Subcatchment B4: Drainage Basin B4

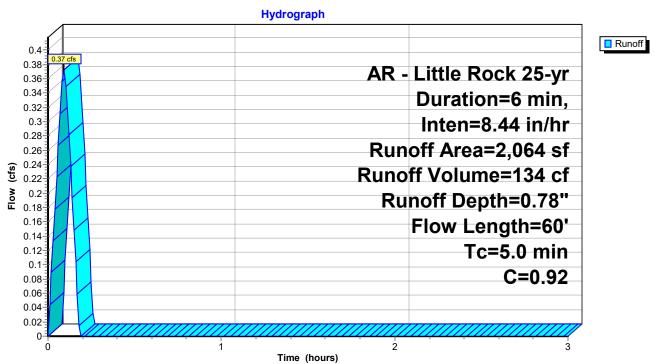
Runoff = 0.37 cfs @ 0.09 hrs, Volume= 134 cf, Depth= 0.78"

Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

_	Aı	rea (sf)	С	Description	1					
		0	0.35	Sandy Soil	andy Soil 2-7% per manual					
		2,064	0.92	Paved Area	as					
		2,064	0.92	Weighted A	Veighted Average					
		2,064		100.00% P	ervious Are	ea				
	Tc	Length	Slope	Velocity	Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	0.6	45	0.0170	1.26		Sheet Flow, Asphalt Sheet Flow				
						Smooth surfaces n= 0.011 P2= 4.20"				
	0.0	15	0.0840	5.88		Shallow Concentrated Flow, Gutter Flow				
						Paved Kv= 20.3 fps				
	4.4					Direct Entry, Minimum Adjustment				
	5.0	60	Total							

Subcatchment B4: Drainage Basin B4



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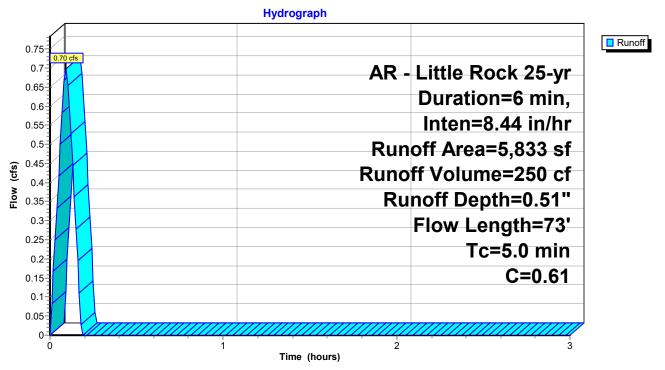
Summary for Subcatchment B5: Drainage Basin B5

Runoff = 0.70 cfs @ 0.09 hrs, Volume= 250 cf, Depth= 0.51" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

_	Α	rea (sf)	С	Description	1						
		3,123	0.35	Sandy Soil	andy Soil 2-7% per manual						
_		2,710	0.92	Paved Area	as						
		5,833	0.61	Weighted A	Weighted Average						
		5,833		100.00% P	ervious Are	ea					
	Tc	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	0.1	18	0.1667	2.61		Sheet Flow, Rooftop					
						Smooth surfaces n= 0.011 P2= 4.20"					
	0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated					
						Short Grass Pasture Kv= 7.0 fps					
_	4.5					Direct Entry, Minimum Adjustment					
	5.0	73	Total								

Subcatchment B5: Drainage Basin B5



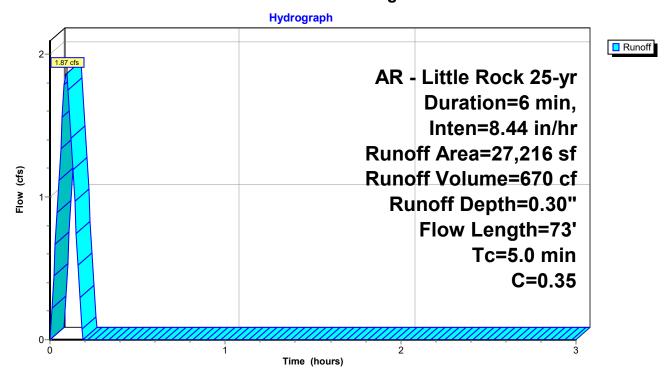
Summary for Subcatchment B6: Drainage Basin B6

Runoff = 1.87 cfs @ 0.09 hrs, Volume= 670 cf, Depth= 0.30" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

	Α	rea (sf)	С	Description]		
	27,216 0.35 Sandy Soil 2-7% per manual						
		27,216		100.00% P	ervious Are	ea	
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description	
_	0.1	18	0.1667	2.61	, ,	Sheet Flow, Rooftop	
	0.4	55	0.0860	2.05		Smooth surfaces n= 0.011 P2= 4.20" Shallow Concentrated Flow, Overland Concentrated Short Grass Pasture Kv= 7.0 fps	
	4.5					Direct Entry, Minimum Adjustment	
	5.0	73	Total				

Subcatchment B6: Drainage Basin B6



Summary for Subcatchment B7: Drainage Basin B7

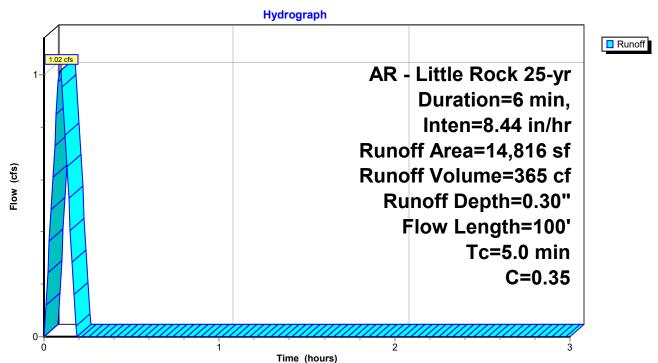
Runoff = 1.02 cfs @ 0.09 hrs, Volume= 365 cf, Depth= 0.30"

Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 25-yr Duration=6 min, Inten=8.44 in/hr

	Α	rea (sf)	С	Description		
		14,816	0.35	Sandy Soil	2-7% per r	manual
	14,816 100.00% Pervious Area					ea
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description
	0.2	42	0.1667	3.09	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
	4.0					Smooth surfaces n= 0.011 P2= 4.20"
_	4.3					Direct Entry, Minimum Adjustment
	5.0	100	Total			

Subcatchment B7: Drainage Basin B7



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Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 9,597 sf, 0.00% Impervious, Inflow Depth = 0.77" for 25-yr event

Inflow = 1.71 cfs @ 0.09 hrs, Volume= 614 cf

Outflow = 1.73 cfs @ 0.10 hrs, Volume= 614 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.73 cfs @ 0.10 hrs, Volume= 614 cf

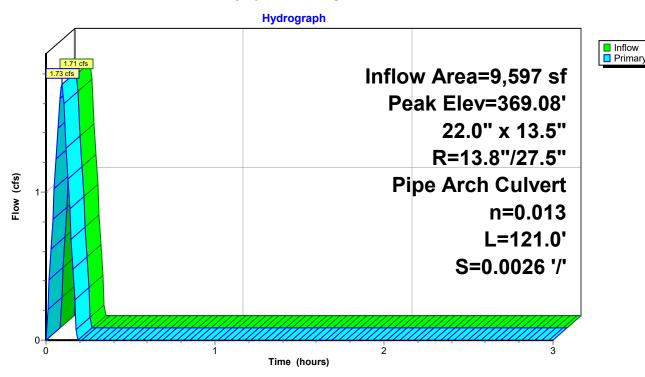
Routed to Pond CI-A2: CURB INLET A2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 369.08' @ 0.09 hrs

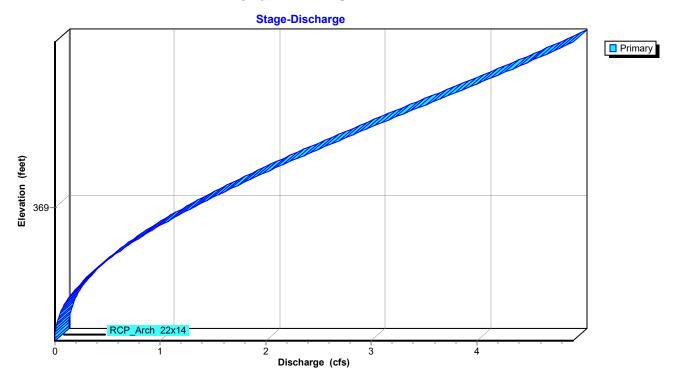
Device Routing Invert Outlet Devices	
#1 Primary 368.50' 22.0" W x 13.5" H, R=13.8"/27.5" Pipe Arch RCP_Arch 22x14 L= 121.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.50' / 368.19' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.65 sf	

Primary OutFlow Max=1.71 cfs @ 0.10 hrs HW=369.08' (Free Discharge) 1=RCP_Arch 22x14 (Barrel Controls 1.71 cfs @ 2.64 fps)

Pond CI-A1: CURB INLET A1



Pond CI-A1: CURB INLET A1



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Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
368.50	Ŏ	369.02	0	369.54	0
368.51	0	369.03	0	369.55	0
368.52	0	369.04	0	369.56	0
368.53	0	369.05	0	369.57	0
368.54	0	369.06	0	369.58	0
368.55 368.56	0 0	369.07 369.08	0 0	369.59 369.60	0 0
368.57	0	369.06	0	369.61	0
368.58	Ö	369.10	Ö	369.62	ő
368.59	0	369.11	0		
368.60	0	369.12	0		
368.61	0	369.13	0		
368.62	0	369.14	0		
368.63	0 0	369.15 369.16	0		
368.64 368.65	0	369.17	0		
368.66	0	369.18	0		
368.67	Ö	369.19	Ö		
368.68	0	369.20	0		
368.69	0	369.21	0		
368.70	0	369.22	0		
368.71 368.72	0 0	369.23	0		
368.73	0	369.24 369.25	0		
368.74	0	369.26	0		
368.75	0	369.27	0		
368.76	0	369.28	0		
368.77	0	369.29	0		
368.78	0	369.30	0		
368.79	0 0	369.31 369.32	0		
368.80 368.81	0	369.33	0		
368.82	0	369.34	0		
368.83	0	369.35	0		
368.84	0	369.36	0		
368.85	0	369.37	0		
368.86	0	369.38	0		
368.87 368.88	0 0	369.39 369.40	0		
368.89	0	369.41	0		
368.90	0	369.42	Ö		
368.91	Ō	369.43	0		
368.92	0	369.44	0		
368.93	0	369.45	0		
368.94	0	369.46	0		
368.95 368.96	0 0	369.47 369.48	0		
368.97	0	369.46	0		
368.98	0	369.50	0		
368.99	0	369.51	0		
369.00	0	369.52	0		
369.01	0	369.53	0		

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Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 11,661 sf, 0.00% Impervious, Inflow Depth = 0.77" for 25-yr event

Inflow = 2.11 cfs @ 0.10 hrs, Volume= 748 cf

Outflow = 2.11 cfs @ 0.10 hrs, Volume= 748 cf, Atten= 0%, Lag= 0.0 min

Primary = 2.11 cfs @ 0.10 hrs, Volume= 748 cf

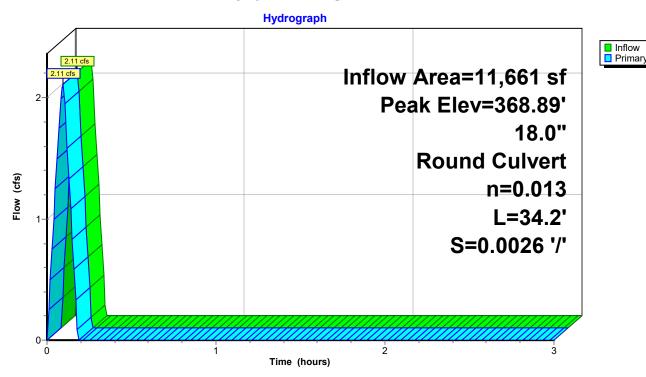
Routed to Link POST-DEV: Post-Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.89' @ 0.09 hrs

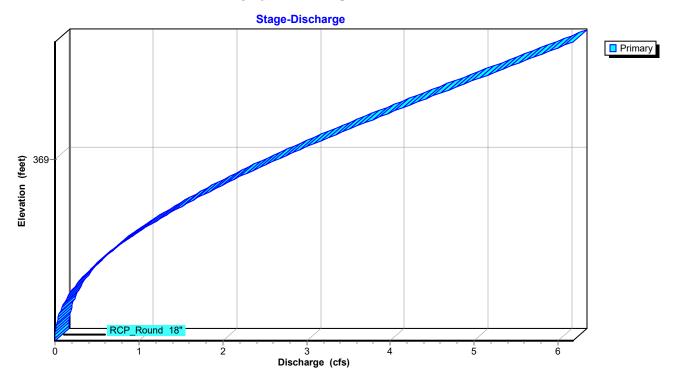
Device	Routing	Invert	Outlet Devices
#1	Primary	368.09'	18.0" Round RCP_Round 18"
			L= 34.2' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 368.09' / 368.00' S= 0.0026 '/' Cc= 0.900
			n= 0.013, Flow Area= 1.77 sf

Primary OutFlow Max=2.08 cfs @ 0.10 hrs HW=368.89' (Free Discharge) 1=RCP_Round 18" (Barrel Controls 2.08 cfs @ 3.16 fps)

Pond CI-A2: CURB INLET A2



Pond CI-A2: CURB INLET A2



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

(feet	Elevation	Storage	Elevation	Storage	Elevation	Storage
388.10 0 368.62 0 369.15 0 368.11 0 368.63 0 369.15 0 368.12 0 368.64 0 369.16 0 368.13 0 368.65 0 369.18 0 368.14 0 368.66 0 369.18 0 368.15 0 368.66 0 369.19 0 368.16 0 368.68 0 369.20 0 368.17 0 368.69 0 369.21 0 368.18 0 368.70 0 369.23 0 368.19 0 368.72 0 369.24 0 368.21 0 368.73 0 369.25 0 368.21 0 368.75 0 369.26 0 368.23 0 368.76 0 369.28 0 368.24 0 368.76 0 369.29						
388.11 0 368.63 0 369.15 0 368.12 0 368.64 0 369.16 0 368.13 0 368.65 0 369.17 0 368.14 0 368.66 0 369.19 0 368.15 0 368.67 0 369.19 0 368.16 0 368.69 0 369.20 0 368.17 0 368.71 0 369.21 0 368.19 0 368.71 0 369.22 0 368.20 0 368.72 0 369.25 0 368.21 0 368.73 0 369.25 0 368.23 0 368.74 0 369.25 0 368.24 0 368.75 0 369.27 0 368.25 0 368.76 0 369.29 0 368.26 0 368.79 0 369.31						
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Prepared by Phillip Lewis Engineering

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Summary for Link POST-DEV: Post-Development

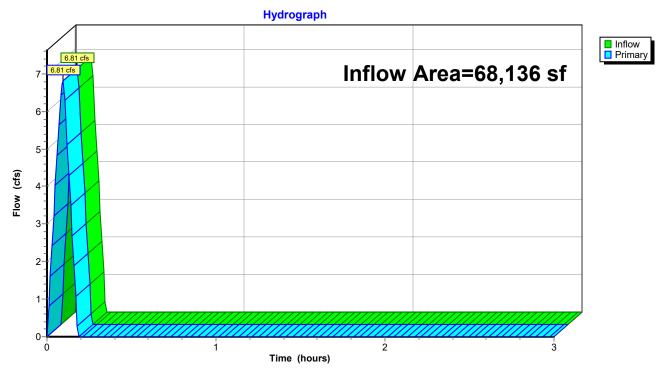
Inflow Area = 68,136 sf, 0.00% Impervious, Inflow Depth = 0.43" for 25-yr event

Inflow = 6.81 cfs @ 0.09 hrs, Volume= 2,414 cf

Primary = 6.81 cfs @ 0.09 hrs, Volume= 2,414 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development



Prepared by Phillip Lewis Engineering

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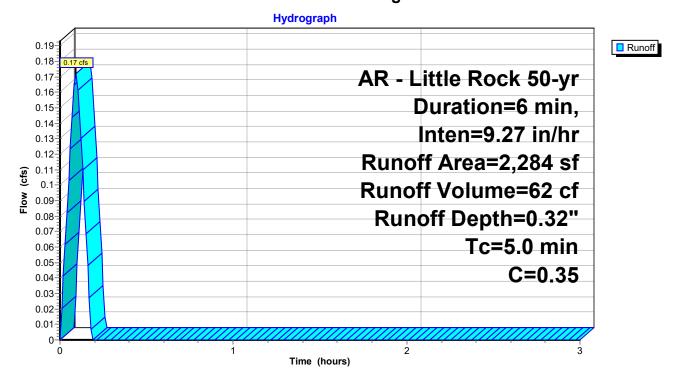
Summary for Subcatchment B1: Drainage Basin B1

Runoff = 0.17 cfs @ 0.09 hrs, Volume= 62 cf, Depth= 0.32" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

A	rea (sf)	С	Description					
	2,284	0.35	Sandy Soil	Sandy Soil 2-7% per manual				
	0	0.92	Paved Area	Paved Areas				
	2,284	0.35	Weighted A	Average				
	2,284		100.00% P	ervious Are	ea			
Тс	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
5.0					Direct Entry, Minimum Adjustment			

Subcatchment B1: Drainage Basin B1



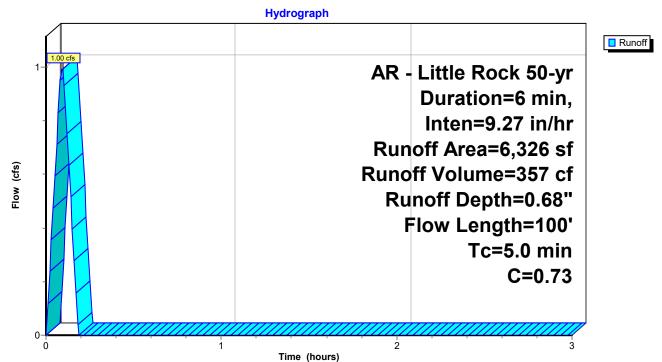
Summary for Subcatchment B2: Drainage Basin B2

Runoff = 1.00 cfs @ 0.09 hrs, Volume= 357 cf, Depth= 0.68" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

	Α	rea (sf)	С	Description	1				
		2,115	0.35	Sandy Soil 2-7% per manual					
		4,211	0.92	Paved Area	as				
		6,326	0.73	Weighted A	Average				
		6,326		100.00% P	ervious Are	ea			
	Тс	Length	Slope		Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	0.2	42	0.1667	3.09		Sheet Flow, Rooftop			
						Smooth surfaces n= 0.011 P2= 4.20"			
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow			
						Smooth surfaces n= 0.011 P2= 4.20"			
	4.3					Direct Entry, Minimum Adjustment			
	5.0	100	Total						

Subcatchment B2: Drainage Basin B2



Summary for Subcatchment B3: Drainage Basin B3

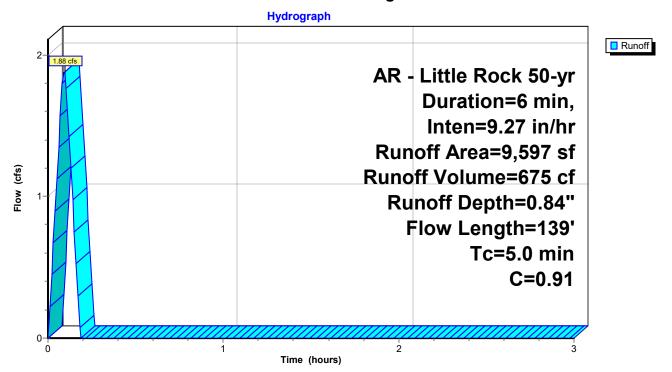
Runoff = 1.88 cfs @ 0.09 hrs, Volume= 675 cf, Depth= 0.84"

Routed to Pond CI-A1: CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

A	rea (sf)	С	Description	1	
	155	0.35	Sandy Soil	manual	
	9,442	0.92	Paved Area	as	
	9,597	0.91	Weighted A	Average	
	9,597		100.00% P	ervious Are	ea
_				_	
Tc	Length	Slope	•	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	28	0.1667	2.85		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	30	0.0160	1.13		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	41	0.0520	1.93		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	40	0.0360	3.85		Shallow Concentrated Flow, Gutter Flow
					Paved Kv= 20.3 fps
3.8					Direct Entry, Minimum Adjustment
5.0	139	Total			

Subcatchment B3: Drainage Basin B3



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Summary for Subcatchment B4: Drainage Basin B4

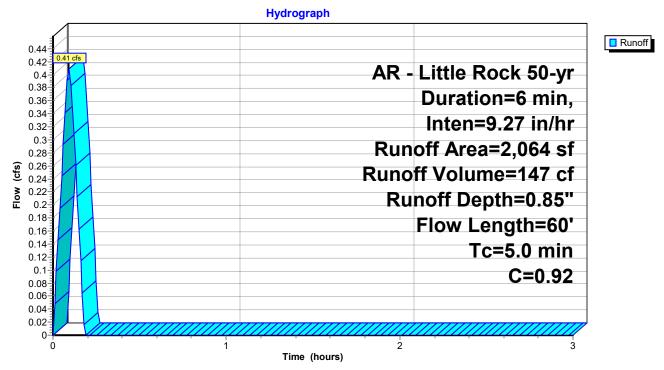
Runoff = 0.41 cfs @ 0.09 hrs, Volume= 147 cf, Depth= 0.85"

Routed to Pond CI-A2: CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

_	Aı	rea (sf)	С	Description					
		0	0.35	Sandy Soil 2-7% per manual					
		2,064	0.92	Paved Areas					
		2,064	0.92	Weighted Average					
		2,064		100.00% P	ervious Are	ea			
	Tc	Length	Slope	Velocity	Capacity	Description			
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	0.6	45	0.0170	1.26		Sheet Flow, Asphalt Sheet Flow			
						Smooth surfaces n= 0.011 P2= 4.20"			
	0.0	15	0.0840	5.88		Shallow Concentrated Flow, Gutter Flow			
						Paved Kv= 20.3 fps			
	4.4					Direct Entry, Minimum Adjustment			
	5.0	60	Total						

Subcatchment B4: Drainage Basin B4



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Summary for Subcatchment B5: Drainage Basin B5

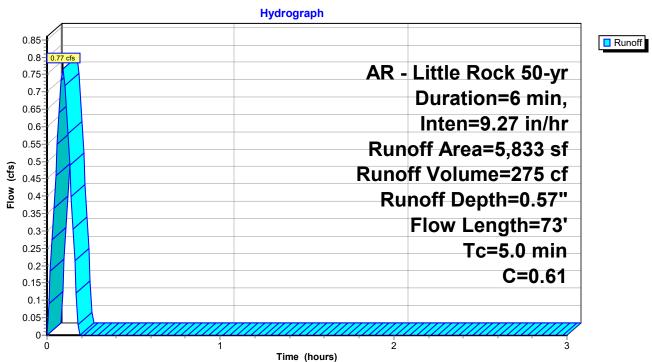
Runoff = 0.77 cfs @ 0.09 hrs, Volume= 275 cf, Depth= 0.57"

Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

A	rea (sf)	С	Description					
	3,123	0.35	Sandy Soil	2-7% per r	manual			
	2,710	0.92	Paved Area	as				
	5,833	0.61	61 Weighted Average					
	5,833		100.00% P	ervious Are	ea			
_								
Tc	Length	Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
0.1	18	0.1667	2.61		Sheet Flow, Rooftop			
					Smooth surfaces n= 0.011 P2= 4.20"			
0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated			
					Short Grass Pasture Kv= 7.0 fps			
4.5					Direct Entry, Minimum Adjustment			
5.0	73	Total						

Subcatchment B5: Drainage Basin B5



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Summary for Subcatchment B6: Drainage Basin B6

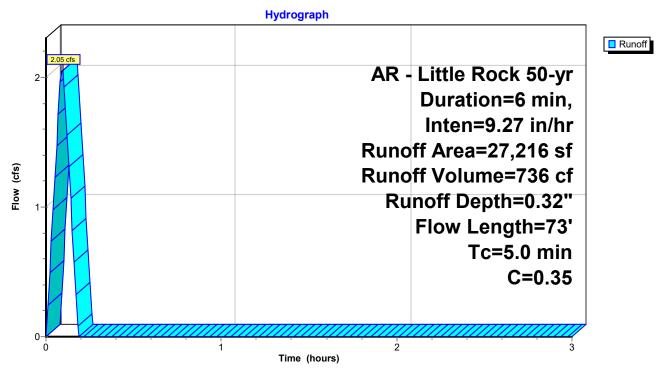
Runoff = 2.05 cfs @ 0.09 hrs, Volume= 736 cf, Depth= 0.32"

Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

_	Α	rea (sf)	С	Description		
27,216 0.35 Sandy Soil 2-7% per m						manual
		27,216		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description
_	0.1	18	0.1667	2.61	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated
	4 5					Short Grass Pasture Kv= 7.0 fps
_	4.5					Direct Entry, Minimum Adjustment
	5.0	73	Total			

Subcatchment B6: Drainage Basin B6



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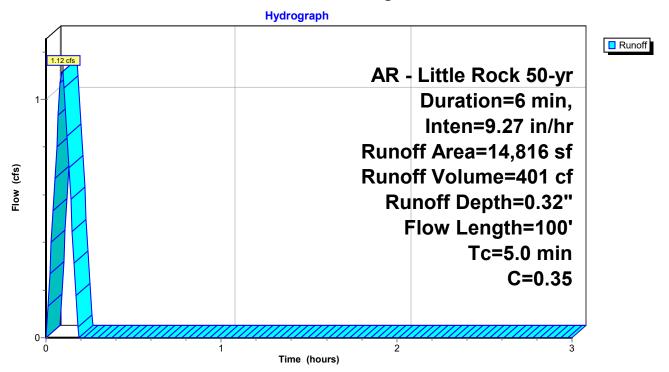
Summary for Subcatchment B7: Drainage Basin B7

Runoff = 1.12 cfs @ 0.09 hrs, Volume= 401 cf, Depth= 0.32" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 50-yr Duration=6 min, Inten=9.27 in/hr

	Α	rea (sf)	С	Description		
		14,816	0.35	Sandy Soil	2-7% per r	manual
		14,816		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description
	0.2	42	0.1667	3.09	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
	4.0					Smooth surfaces n= 0.011 P2= 4.20"
_	4.3					Direct Entry, Minimum Adjustment
	5.0	100	Total			

Subcatchment B7: Drainage Basin B7



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Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 9,597 sf, 0.00% Impervious, Inflow Depth = 0.84" for 50-yr event

Inflow = 1.88 cfs @ 0.09 hrs, Volume= 675 cf

Outflow = 1.88 cfs @ 0.09 hrs, Volume= 675 cf, Atten= 0%, Lag= 0.0 min

Primary = 1.88 cfs @ 0.09 hrs, Volume= 675 cf

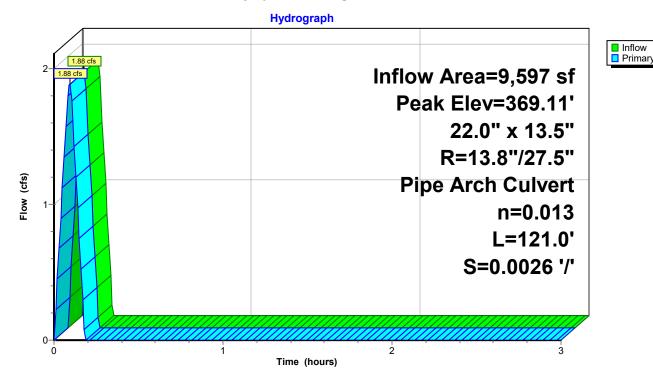
Routed to Pond CI-A2: CURB INLET A2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 369.11' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.50'	22.0" W x 13.5" H, R=13.8"/27.5" Pipe Arch RCP_Arch 22x14 L= 121.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.50' / 368.19' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.65 sf

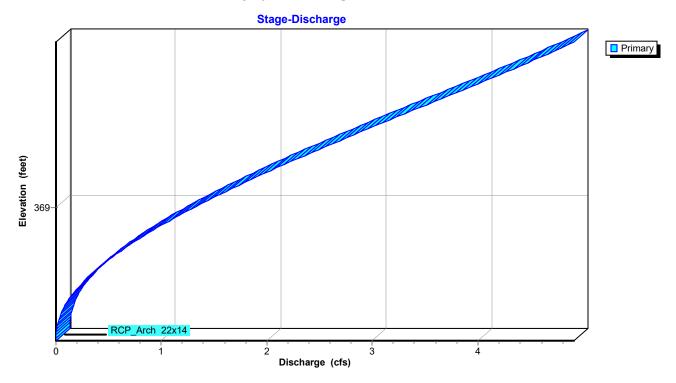
Primary OutFlow Max=1.87 cfs @ 0.09 hrs HW=369.11' (Free Discharge) 1=RCP_Arch 22x14 (Barrel Controls 1.87 cfs @ 2.72 fps)

Pond CI-A1: CURB INLET A1



New Beginnings Drainage AR - Little Rock 50-yr Departed by Phillip Lewis Engineering
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Pond CI-A1: CURB INLET A1



New Beginnings Drainage

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Stage-Area-Storage for Pond CI-A1: CURB INLET A1

1885 1885	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
388.51 368.52 0 369.04 0 369.56 0 369.56 0 369.57 0 368.54 0 369.05 0 369.57 0 369.59 0 368.55 0 369.07 0 369.59 0 369.59 0 368.57 0 369.09 0 369.59 0 369.60 0 369.60 0 369.60 0 369.60 0 369.60 0 369.61 0 368.57 0 369.09 0 369.61 0 369.62 0 369.62 0 369.62 0 369.63 0 369.61 0 369.62 0 369.61 0 369.62 0 369.62 0 369.61 0 369.62 0 369.62 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.67 0 369.68 0 369.69 0 369.60 0 369.62 0 369.62 0 369.62 0 369.63 0 369.64 0 369.65 0 369.65 0 369.67 0 369.68 0 369.77 0 368.66 0 369.20 0 368.67 0 369.20 0 368.70 0 369.21 0 368.70 0 369.22 0 368.71 0 369.25 0 368.71 0 369.25 0 368.72 0 369.26 0 369.27 0 368.73 0 369.25 0 368.74 0 369.26 0 369.37 0 368.75 0 369.30 0 369.31 0 368.76 0 369.32 0 368.77 0 369.32 0 368.87 0 369.35 0 368.87 0 369.30 0 369.31 0 368.88 0 369.37 0 369.30 0 369.31 0 368.89 0 369.31 0 368.89 0 369.31 0 368.80 0 369.32 0 368.81 0 369.35 0 368.81 0 369.35 0 368.82 0 369.37 0 368.83 0 369.35 0 368.84 0 369.35 0 368.85 0 369.37 0 368.86 0 369.37 0 368.87 0 369.38 0 369.39 0 368.89 0 369.41 0 369.39 0 368.89 0 369.47 0 369.49 0 368.99 0 369.41 0 369.90 0 369.42 0 368.99 0 369.47 0 369.90 0 369.91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
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InflowPrimary

Prepared by Phillip Lewis Engineering
HydroCAD® 10.20-6a s/n 12520 © 2024 HydroCAD Software Solutions LLC

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 11,661 sf, 0.00% Impervious, Inflow Depth = 0.85" for 50-yr event

Inflow = 2.29 cfs @ 0.09 hrs, Volume= 821 cf

Outflow = 2.29 cfs @ 0.09 hrs, Volume= 821 cf, Atten= 0%, Lag= 0.0 min

Primary = 2.29 cfs @ 0.09 hrs, Volume= 821 cf

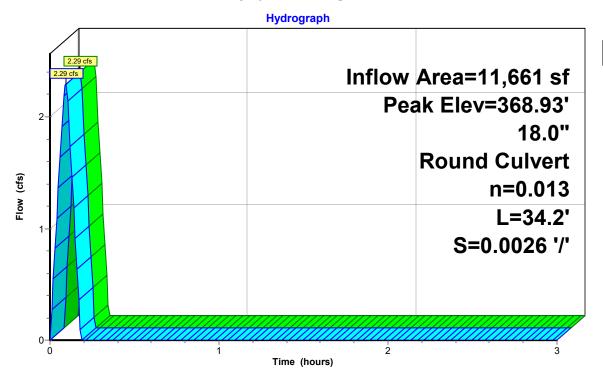
Routed to Link POST-DEV: Post-Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.93' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.09'	18.0" Round RCP_Round 18"
			L= 34.2' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 368.09' / 368.00' S= 0.0026 '/' Cc= 0.900
			n= 0.013, Flow Area= 1.77 sf

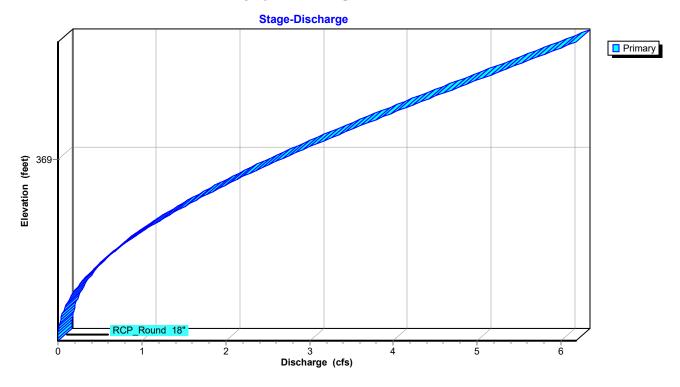
Primary OutFlow Max=2.28 cfs @ 0.09 hrs HW=368.93' (Free Discharge) 1=RCP_Round 18" (Barrel Controls 2.28 cfs @ 3.24 fps)

Pond CI-A2: CURB INLET A2



New Beginnings Drainage AR - Little Rock 50-yr Departed by Phillip Lewis Engineering
HydroCAD® 10.20-6a s/n 12520 © 2024 HydroCAD Software Solutions LLC

Pond CI-A2: CURB INLET A2



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

(feet	Elevation	Storage	Elevation	Storage	Elevation	Storage
388.10 0 368.62 0 369.15 0 368.11 0 368.63 0 369.15 0 368.12 0 368.64 0 369.16 0 368.13 0 368.65 0 369.18 0 368.14 0 368.66 0 369.18 0 368.15 0 368.66 0 369.19 0 368.16 0 368.68 0 369.20 0 368.17 0 368.69 0 369.21 0 368.18 0 368.70 0 369.23 0 368.19 0 368.72 0 369.24 0 368.21 0 368.73 0 369.25 0 368.21 0 368.75 0 369.26 0 368.23 0 368.76 0 369.28 0 368.24 0 368.76 0 369.29						
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Summary for Link POST-DEV: Post-Development

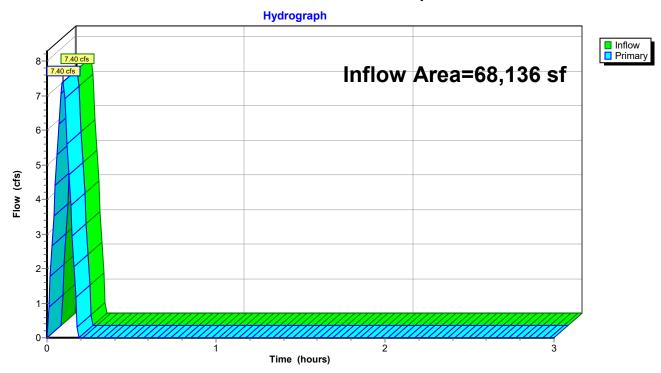
Inflow Area = 68,136 sf, 0.00% Impervious, Inflow Depth = 0.47" for 50-yr event

Inflow = 7.40 cfs @ 0.09 hrs, Volume= 2,651 cf

Primary = 7.40 cfs @ 0.09 hrs, Volume= 2,651 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development



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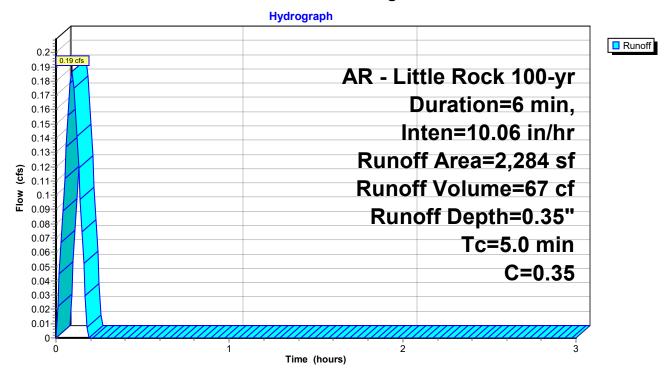
Summary for Subcatchment B1: Drainage Basin B1

Runoff = 0.19 cfs @ 0.09 hrs, Volume= 67 cf, Depth= 0.35" Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

A	rea (sf)	С	Description	1			
	2,284	0.35	Sandy Soil	Sandy Soil 2-7% per manual			
	0	0.92	Paved Area	Paved Areas			
	2,284	0.35	Weighted A	Veighted Average			
	2,284		100.00% P	ervious Are	ea		
_		٠.					
Tc	Length	Slope	,	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
5.0					Direct Entry, Minimum Adjustment		

Subcatchment B1: Drainage Basin B1



New Beginnings Drainage

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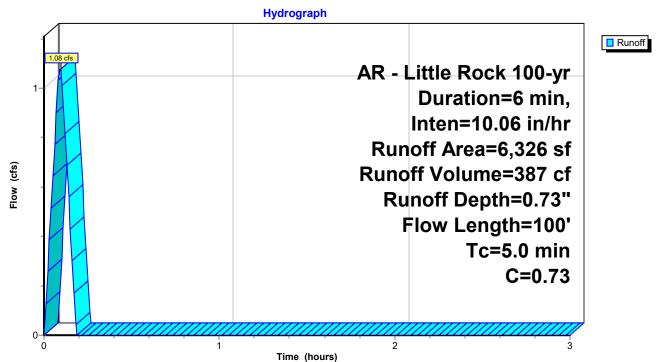
Summary for Subcatchment B2: Drainage Basin B2

Runoff = 1.08 cfs @ 0.09 hrs, Volume= 387 cf, Depth= 0.73" Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

	Area (sf)	С	Description	า	
	2,115	0.35	Sandy Soil	2-7% per r	manual
	4,211	0.92	Paved Are	as	
	6,326	0.73	Weighted A	Average	
	6,326		100.00% F	ervious Are	ea
Т	c Length		•	Capacity	Description
(mir	n) (feet)) (ft/ft) (ft/sec)	(cfs)	
0.	.2 42	0.1667	7 3.09		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.	.5 58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
4.	.3				Direct Entry, Minimum Adjustment
5.	.0 100) Total			

Subcatchment B2: Drainage Basin B2



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Summary for Subcatchment B3: Drainage Basin B3

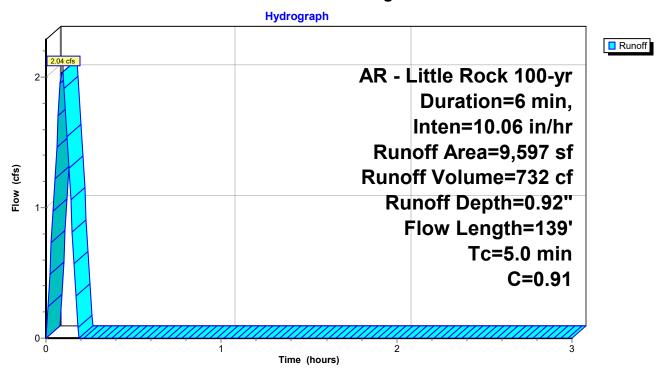
Runoff = 2.04 cfs @ 0.09 hrs, Volume= 732 cf, Depth= 0.92"

Routed to Pond CI-A1: CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

A	rea (sf)	С	Description	1	
	155	0.35	Sandy Soil	2-7% per r	manual
	9,442	0.92	Paved Area	as	
	9,597	0.91	Weighted A	Average	
	9,597		100.00% P	ervious Are	ea
_				_	
Tc	Length	Slope	•	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.2	28	0.1667	2.85		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	30	0.0160	1.13		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	41	0.0520	1.93		Sheet Flow, Asphalt Sheet Flow
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	40	0.0360	3.85		Shallow Concentrated Flow, Gutter Flow
					Paved Kv= 20.3 fps
3.8					Direct Entry, Minimum Adjustment
5.0	139	Total			

Subcatchment B3: Drainage Basin B3



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Summary for Subcatchment B4: Drainage Basin B4

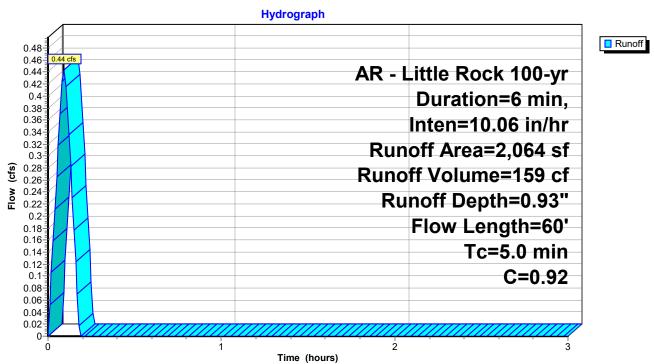
Runoff = 0.44 cfs @ 0.09 hrs, Volume= 159 cf, Depth= 0.93"

Routed to Pond CI-A2: CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

_	Α	rea (sf)	С	Description	1	
		0	0.35	Sandy Soil	2-7% per r	manual
		2,064	0.92	Paved Area	as	
		2,064	0.92	Weighted A	Average	
		2,064		100.00% P	ervious Are	ea
	Tc	Length	Slope	Velocity	Capacity	Description
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	0.6	45	0.0170	1.26		Sheet Flow, Asphalt Sheet Flow
						Smooth surfaces n= 0.011 P2= 4.20"
	0.0	15	0.0840	5.88		Shallow Concentrated Flow, Gutter Flow
						Paved Kv= 20.3 fps
	4.4					Direct Entry, Minimum Adjustment
	5.0	60	Total			

Subcatchment B4: Drainage Basin B4



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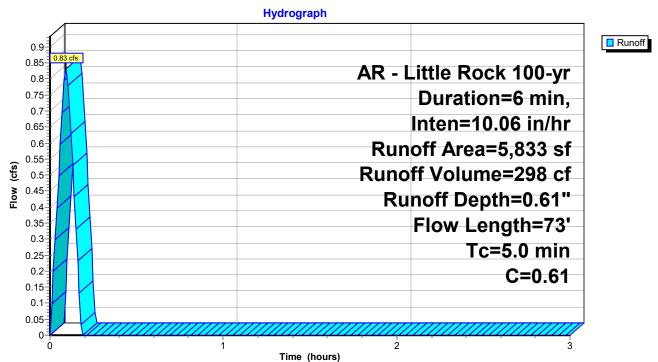
Summary for Subcatchment B5: Drainage Basin B5

298 cf, Depth= 0.61" Runoff 0.83 cfs @ 0.09 hrs, Volume= Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

 Aı	rea (sf)	С	Description	1	
	3,123	0.35	Sandy Soil	2-7% per r	manual
	2,710	0.92	Paved Area	as ·	
	5,833	0.61	Weighted A	Average	
	5,833		100.00% P	ervious Are	ea
Tc	Length	Slope	Velocity	Capacity	Description
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
0.1	18	0.1667	2.61		Sheet Flow, Rooftop
					Smooth surfaces n= 0.011 P2= 4.20"
0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated
					Short Grass Pasture Kv= 7.0 fps
4.5					Direct Entry, Minimum Adjustment
5.0	73	Total			

Subcatchment B5: Drainage Basin B5



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Summary for Subcatchment B6: Drainage Basin B6

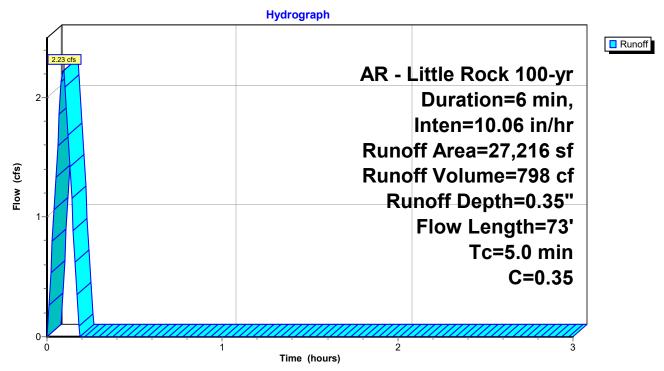
798 cf, Depth= 0.35" Runoff 2.23 cfs @ 0.09 hrs, Volume=

Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

	Α	rea (sf)	С	Description	ĺ	
		27,216	0.35	Sandy Soil	2-7% per r	manual
		27,216		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	0.1	18	0.1667	2.61	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.4	55	0.0860	2.05		Shallow Concentrated Flow, Overland Concentrated
	4.5					Short Grass Pasture Kv= 7.0 fps Direct Entry, Minimum Adjustment
_	5.0	73	Total			Direct Entry, Millimani Adjustinent

Subcatchment B6: Drainage Basin B6



Summary for Subcatchment B7: Drainage Basin B7

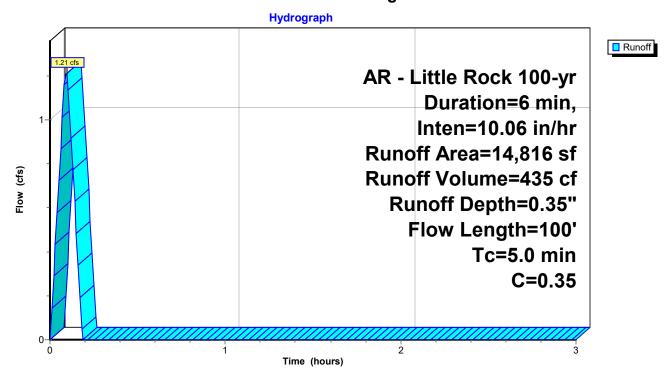
435 cf, Depth= 0.35" Runoff 1.21 cfs @ 0.09 hrs, Volume=

Routed to Link POST-DEV: Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs AR - Little Rock 100-yr Duration=6 min, Inten=10.06 in/hr

	Α	rea (sf)	С	Description)	
		14,816	0.35	Sandy Soil	2-7% per r	manual
		14,816		100.00% P	ervious Are	ea
	Tc (min)	Length (feet)	Slope (ft/ft)	,	Capacity (cfs)	Description
-	0.2	42	0.1667	3.09	, ,	Sheet Flow, Rooftop
						Smooth surfaces n= 0.011 P2= 4.20"
	0.5	58	0.0500	2.04		Sheet Flow, Asphalt Sheet Flow
_	4.3					Smooth surfaces n= 0.011 P2= 4.20" Direct Entry, Minimum Adjustment
	5.0	100	Total			

Subcatchment B7: Drainage Basin B7



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Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 9,597 sf, 0.00% Impervious, Inflow Depth = 0.92" for 100-yr event

Inflow = 2.04 cfs @ 0.09 hrs, Volume= 732 cf

Outflow = 2.04 cfs @ 0.09 hrs, Volume= 732 cf, Atten= 0%, Lag= 0.0 min

Primary = 2.04 cfs @ 0.09 hrs, Volume= 732 cf

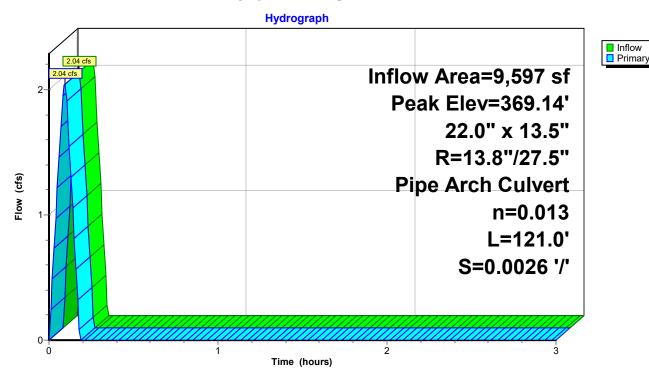
Routed to Pond CI-A2: CURB INLET A2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 369.14' @ 0.09 hrs

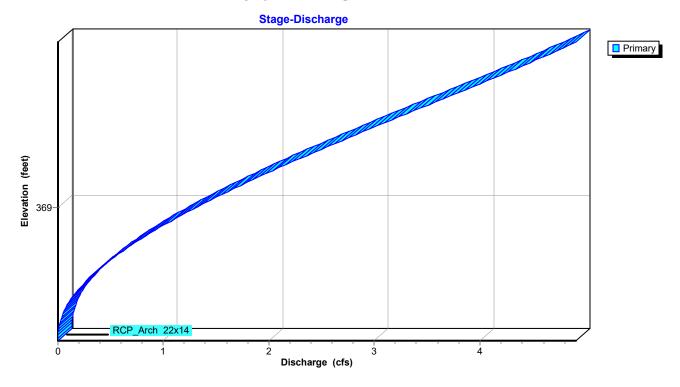
Device	Routing	Invert	Outlet Devices
#1	Primary	368.50'	22.0" W x 13.5" H, R=13.8"/27.5" Pipe Arch RCP_Arch 22x14 L= 121.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.50' / 368.19' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.65 sf

Primary OutFlow Max=2.03 cfs @ 0.09 hrs HW=369.14' (Free Discharge) 1=RCP_Arch 22x14 (Barrel Controls 2.03 cfs @ 2.79 fps)

Pond CI-A1: CURB INLET A1



Pond CI-A1: CURB INLET A1



Stage-Area-Storage for Pond CI-A1: CURB INLET A1

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
368.50	0	369.02	0	369.54	0
368.51	0	369.03	0	369.55	0
368.52	0	369.04	0	369.56	0
368.53	0	369.05	0	369.57	0
368.54	0	369.06	0	369.58	0
368.55	0	369.07	0	369.59	0
368.56	0	369.08	0	369.60	0
368.57 368.58	0	369.09	0	369.61	0 0
368.58 368.59	0 0	369.10 369.11	0 0	369.62	U
368.60	0	369.11	0		
368.61	0	369.13	0		
368.62	0	369.14	0		
368.63	Ö	369.15	Ö		
368.64	0	369.16	0		
368.65	0	369.17	0		
368.66	0	369.18	0		
368.67	0	369.19	0		
368.68	0	369.20	0		
368.69	0	369.21	0		
368.70	0	369.22	0		
368.71	0	369.23	0		
368.72	0	369.24	0		
368.73 368.74	0 0	369.25 369.26	0 0		
368.75	0	369.27	0		
368.76	0	369.28	0		
368.77	0	369.29	0		
368.78	Ö	369.30	ő		
368.79	0	369.31	0		
368.80	0	369.32	0		
368.81	0	369.33	0		
368.82	0	369.34	0		
368.83	0	369.35	0		
368.84	0	369.36	0		
368.85	0	369.37	0		
368.86	0 0	369.38 369.39	0		
368.87 368.88	0	369.40	0		
368.89	0	369.41	0		
368.90	Ö	369.42	Ö		
368.91	Ö	369.43	ő		
368.92	0	369.44	0		
368.93	0	369.45	0		
368.94	0	369.46	0		
368.95	0	369.47	0		
368.96	0	369.48	0		
368.97	0	369.49	0		
368.98	0	369.50	0		
368.99	0	369.51	0		
369.00 369.01	0	369.52 369.53	0 0		
000.01	J	009.00	0		
		ı			

Prepared by Phillip Lewis Engineering

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Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 11,661 sf, 0.00% Impervious, Inflow Depth = 0.92" for 100-yr event

Inflow = 2.49 cfs @ 0.09 hrs, Volume= 891 cf

Outflow = 2.49 cfs @ 0.09 hrs, Volume= 891 cf, Atten= 0%, Lag= 0.0 min

Primary = 2.49 cfs @ 0.09 hrs, Volume= 891 cf

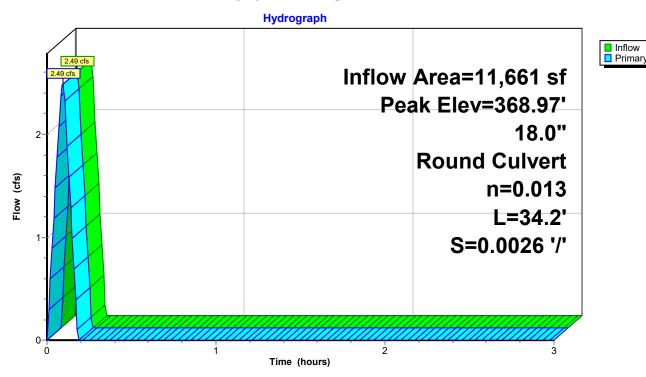
Routed to Link POST-DEV: Post-Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs Peak Elev= 368.97' @ 0.09 hrs

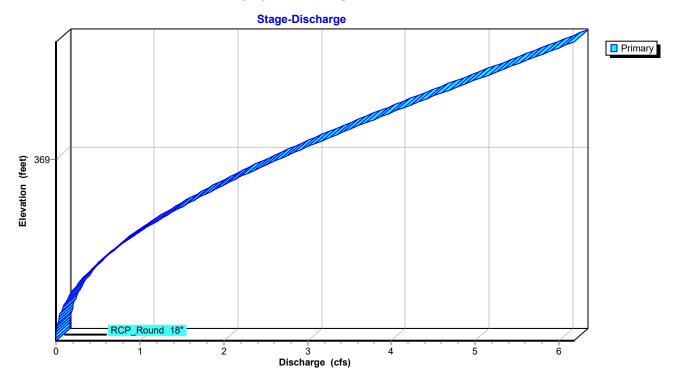
Device	Routing	Invert	Outlet Devices
#1	Primary	368.09'	18.0" Round RCP_Round 18" L= 34.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.09' / 368.00' S= 0.0026 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf

Primary OutFlow Max=2.47 cfs @ 0.09 hrs HW=368.97' (Free Discharge) 1=RCP_Round 18" (Barrel Controls 2.47 cfs @ 3.32 fps)

Pond CI-A2: CURB INLET A2



Pond CI-A2: CURB INLET A2



Stage-Area-Storage for Pond CI-A2: CURB INLET A2

Elevation	Storage	Elevation	Storage	Elevation	Storage
(feet)	(cubic-feet)	(feet)	(cubic-feet)	(feet)	(cubic-feet)
368.09	0	368.61	0	369.13	0
368.10	0	368.62	0	369.14	0
368.11	0	368.63	0	369.15	0
368.12	0	368.64	0	369.16	0
368.13	0	368.65	0	369.17	0
368.14	0	368.66	0	369.18	0
368.15	0	368.67	0	369.19	0
368.16	0	368.68	0	369.20	0
368.17	0	368.69	0	369.21	0
368.18	0	368.70	0	369.22	0
368.19	0	368.71	0	369.23	0
368.20 368.21	0 0	368.72 368.73	0 0	369.24 369.25	0 0
368.22	0	368.74	0	369.26	0
368.23	0	368.75	0	369.27	0
368.24	0	368.76	0	369.28	0
368.25	0	368.77	0	369.29	0
368.26	0	368.78	0	369.30	0
368.27	ő	368.79	Ö	369.31	Ö
368.28	ő	368.80	ő	369.32	Ö
368.29	Ö	368.81	Ö	369.33	0
368.30	Ö	368.82	0	369.34	0
368.31	0	368.83	0	369.35	0
368.32	0	368.84	0	369.36	0
368.33	0	368.85	0	369.37	0
368.34	0	368.86	0	369.38	0
368.35	0	368.87	0	369.39	0
368.36	0	368.88	0	369.40	0
368.37	0	368.89	0	369.41	0
368.38	0	368.90	0	369.42	0
368.39	0	368.91	0	369.43	0
368.40	0	368.92	0	369.44	0
368.41	0	368.93	0	369.45	0
368.42	0	368.94	0	369.46	0
368.43	0	368.95	0	369.47	0
368.44	0	368.96	0	369.48	0
368.45 368.46	0 0	368.97 368.98	0 0	369.49 369.50	0 0
368.47	0	368.99	0	369.50 369.51	0
368.48	0	369.00	0	369.52	0
368.49	0	369.01	0	369.53	0
368.50	ő	369.02	Ö	369.54	0
368.51	ő	369.03	ő	369.55	Ö
368.52	Ö	369.04	0	369.56	0
368.53	Ö	369.05	0	369.57	0
368.54	0	369.06	0	369.58	0
368.55	0	369.07	0	369.59	0
368.56	0	369.08	0		
368.57	0	369.09	0		
368.58	0	369.10	0		
368.59	0	369.11	0		
368.60	0	369.12	0		

Prepared by Phillip Lewis Engineering

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Summary for Link POST-DEV: Post-Development

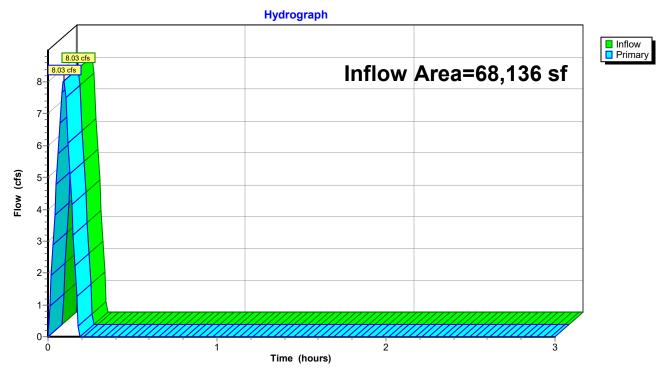
Inflow Area = 68,136 sf, 0.00% Impervious, Inflow Depth = 0.51" for 100-yr event

Inflow = 8.03 cfs @ 0.09 hrs, Volume= 2,876 cf

Primary = 8.03 cfs @ 0.09 hrs, Volume= 2,876 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link POST-DEV: Post-Development



STORM SEWER SIZING

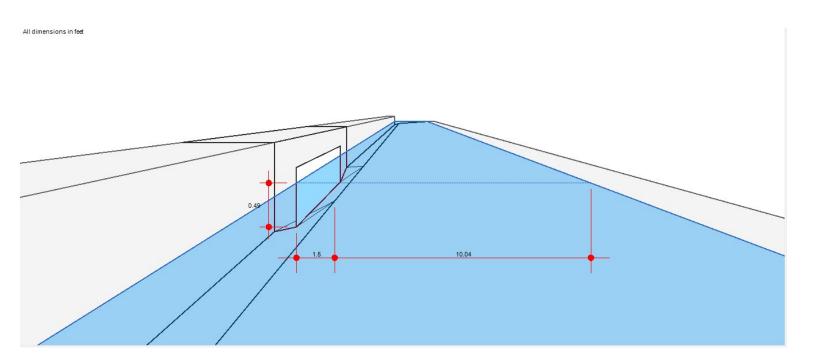
Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

CI-A1 (25 YEAR)

Curb Inlet		Calculations	
Location	= Sag	Compute by:	Known Q
Curb Length (ft)	= 4.00	Q (cfs)	= 1.71
Throat Height (in)	= 4.00		
Grate Area (sqft)	= -0-	Highlighted	
Grate Width (ft)	= -0-	Q Total (cfs)	= 1.71
Grate Length (ft)	= -0-	Q Capt (cfs)	= 1.71
		Q Bypass (cfs)	= -0-
Gutter		Depth at Inlet (in)	= 5.90
Slope, Sw (ft/ft)	= 0.083	Efficiency (%)	= 100
Slope, Sx (ft/ft)	= 0.020	Gutter Spread (ft)	= 11.54
Local Depr (in)	= 2.00	Gutter Vel (ft/s)	= -0-
Gutter Width (ft)	= 1.50	Bypass Spread (ft)	= -0-
Gutter Slope (%)	= -0-	Bypass Depth (in)	= -0-
Gutter n-value	= -0-		



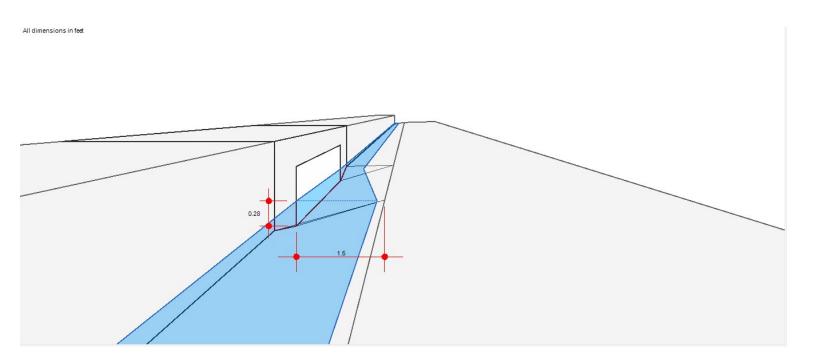
Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

CI-A2 (25 YEAR)

Curb Inlet		Calculations	
Location	= On grade	Compute by:	Known Q
Curb Length (ft)	= 4.00	Q (cfs)	= 0.37
Throat Height (in)	= 4.00		
Grate Area (sqft)	= -0-	Highlighted	
Grate Width (ft)	= -0-	Q Total (cfs)	= 0.37
Grate Length (ft)	= -0-	Q Capt (cfs)	= 0.32
		Q Bypass (cfs)	= 0.05
Gutter		Depth at Inlet (in)	= 3.36
Slope, Sw (ft/ft)	= 0.083	Efficiency (%)	= 86
Slope, Sx (ft/ft)	= 0.020	Gutter Spread (ft)	= 1.37
Local Depr (in)	= 2.00	Gutter Vel (ft/s)	= 4.75
Gutter Width (ft)	= 1.50	Bypass Spread (ft)	= 0.65
Gutter Slope (%)	= 8.40	Bypass Depth (in)	= 0.65
Gutter n-value	= 0.016		

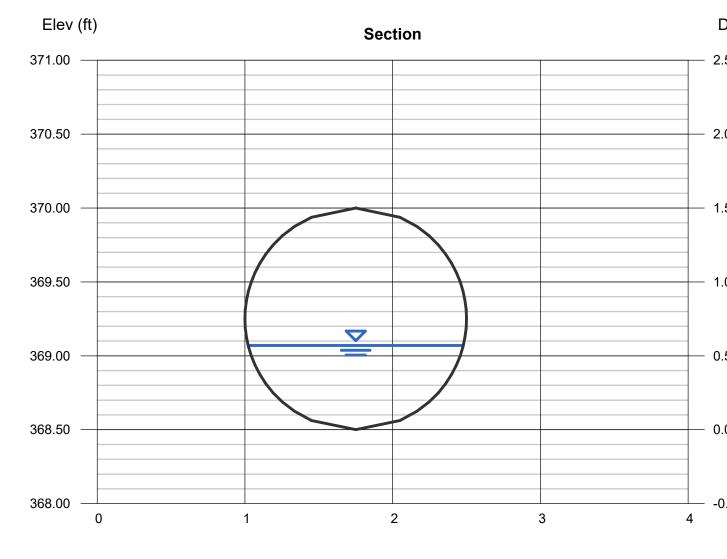


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Wednesday, Jul 23 2025

Pipe A1 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 0.57
		Q (cfs)	= 1.730
		Area (sqft)	= 0.62
Invert Elev (ft)	= 368.50	Velocity (ft/s)	= 2.80
Slope (%)	= 0.26	Wetted Perim (ft)	= 1.99
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.50
		Top Width (ft)	= 1.46
Calculations		EGL (ft)	= 0.69
Compute by:	Known Q		
Known Q (cfs)	= 1.73		



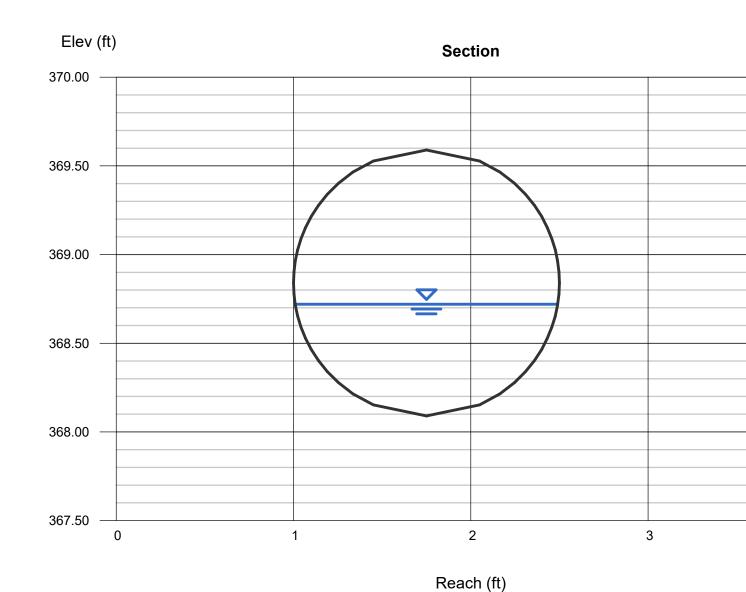
Reach (ft)

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

Pipe A2 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 0.63
		Q (cfs)	= 2.110
		Area (sqft)	= 0.71
Invert Elev (ft)	= 368.09	Velocity (ft/s)	= 2.97
Slope (%)	= 0.26	Wetted Perim (ft)	= 2.12
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.55
		Top Width (ft)	= 1.48
Calculations		EGL (ft)	= 0.77
Compute by:	Known Q		
Known Q (cfs)	= 2.11		

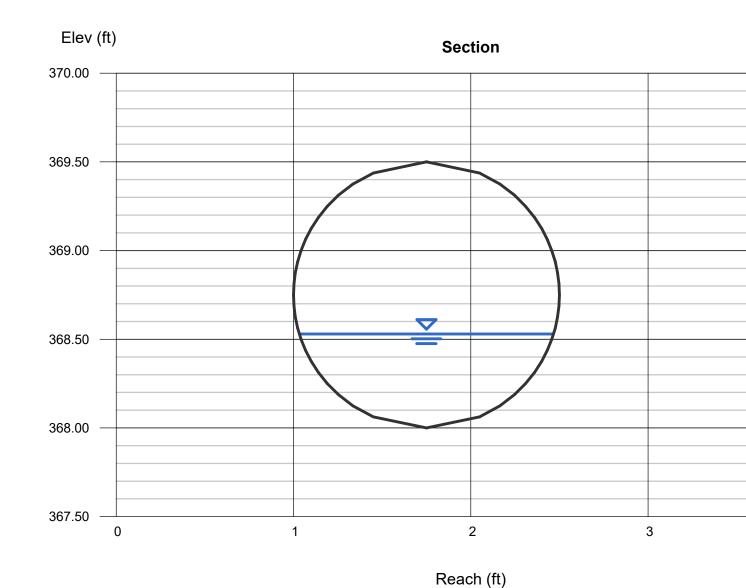


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Wednesday, Jul 23 2025

Existing Pipe C1 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 0.53
		Q (cfs)	= 3.240
		Area (sqft)	= 0.56
Invert Elev (ft)	= 368.00	Velocity (ft/s)	= 5.78
Slope (%)	= 1.14	Wetted Perim (ft)	= 1.91
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.69
		Top Width (ft)	= 1.43
Calculations		EGL (ft)	= 1.05
Compute by:	Known Q		
Known Q (cfs)	= 3.24		

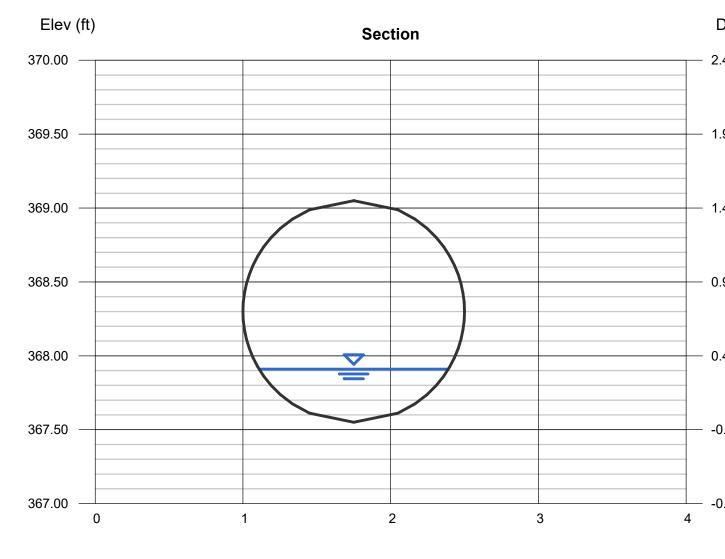


Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

Existing Pipe C2 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 0.36
		Q (cfs)	= 3.390
		Area (sqft)	= 0.33
Invert Elev (ft)	= 367.55	Velocity (ft/s)	= 10.37
Slope (%)	= 6.06	Wetted Perim (ft)	= 1.54
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.71
		Top Width (ft)	= 1.28
Calculations		EGL (ft)	= 2.03
Compute by:	Known Q		
Known Q (cfs)	= 3.39		



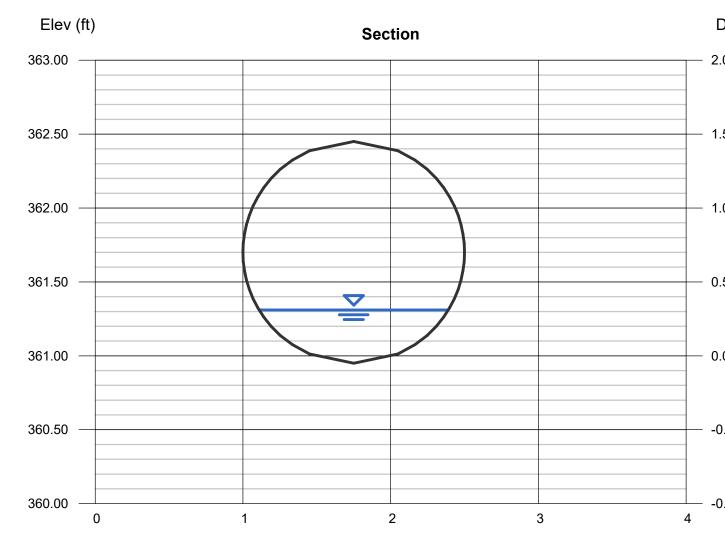
Reach (ft)

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

Existing Pipe C3 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 1.50	Depth (ft)	= 0.36
		Q (cfs)	= 3.390
		Area (sqft)	= 0.33
Invert Elev (ft)	= 360.95	Velocity (ft/s)	= 10.37
Slope (%)	= 5.91	Wetted Perim (ft)	= 1.54
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.71
		Top Width (ft)	= 1.28
Calculations		EGL (ft)	= 2.03
Compute by:	Known Q		
Known Q (cfs)	= 3.39		



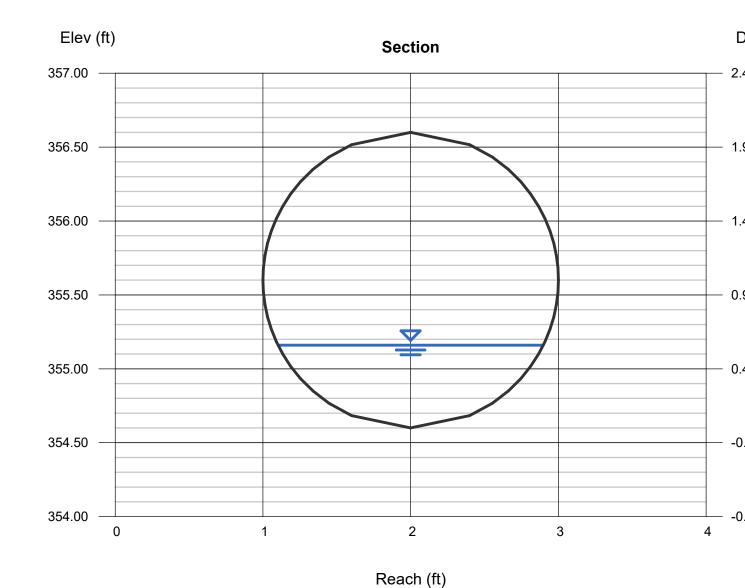
Reach (ft)

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

Existing Pipe C4 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 2.00	Depth (ft)	= 0.56
		Q (cfs)	= 7.210
		Area (sqft)	= 0.73
Invert Elev (ft)	= 354.60	Velocity (ft/s)	= 9.91
Slope (%)	= 2.91	Wetted Perim (ft)	= 2.24
N-Value	= 0.012	Crit Depth, Yc (ft)	= 0.95
		Top Width (ft)	= 1.80
Calculations		EGL (ft)	= 2.09
Compute by:	Known Q		
Known Q (cfs)	= 7.21		

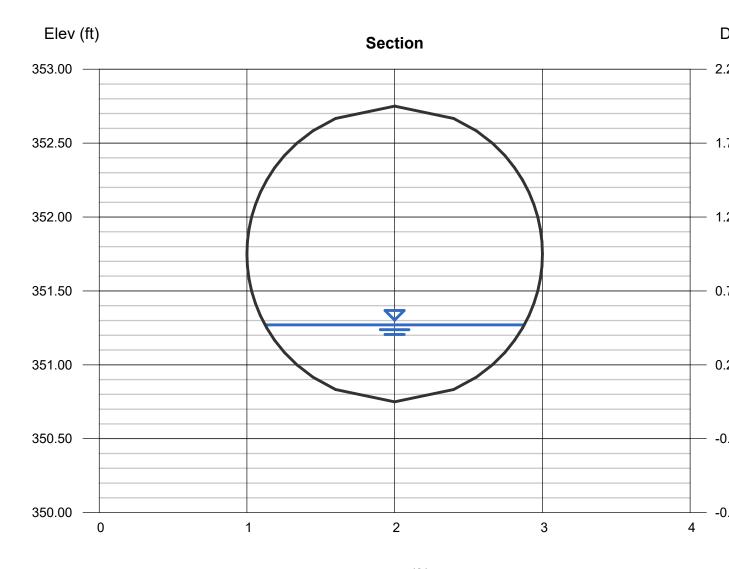


Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Jul 23 2025

Existing Pipe C5 (25 YEAR)

Circular		Highlighted	
Diameter (ft)	= 2.00	Depth (ft)	= 0.52
		Q (cfs)	= 9.590
		Area (sqft)	= 0.66
Invert Elev (ft)	= 350.75	Velocity (ft/s)	= 14.61
Slope (%)	= 7.25	Wetted Perim (ft)	= 2.15
N-Value	= 0.012	Crit Depth, Yc (ft)	= 1.11
		Top Width (ft)	= 1.76
Calculations		EGL (ft)	= 3.84
Compute by:	Known Q		
Known Q (cfs)	= 9.59		



Reach (ft)

DRAINAGE BASIN MAPS



OF AUT

ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER

No. 9540

PROJECT NUMBER:

PHILLIP LEWIS ENGINEERING,
Structural + Civil Consultants

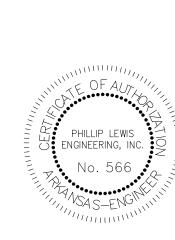
SHEET ISSUE DATE:

PRE-DEV

T NUMBER:



POST-DEV DRAINAGE SCALE 1" = 20'



1" = 10'-0"

IEW BEGININ HIGHWAY 5 BRYANT, ARKANS,

NEW

PROJECT NUMBER:

PHILLIP LEWIS ENGINEERING,
Structural + Civil Consultants

POST-DEV DRAINAGE

SHEET NUMBER:

SOIL CLASSIFICATION MAPS



NRCS

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

Custom Soil Resource Report for Saline County, Arkansas



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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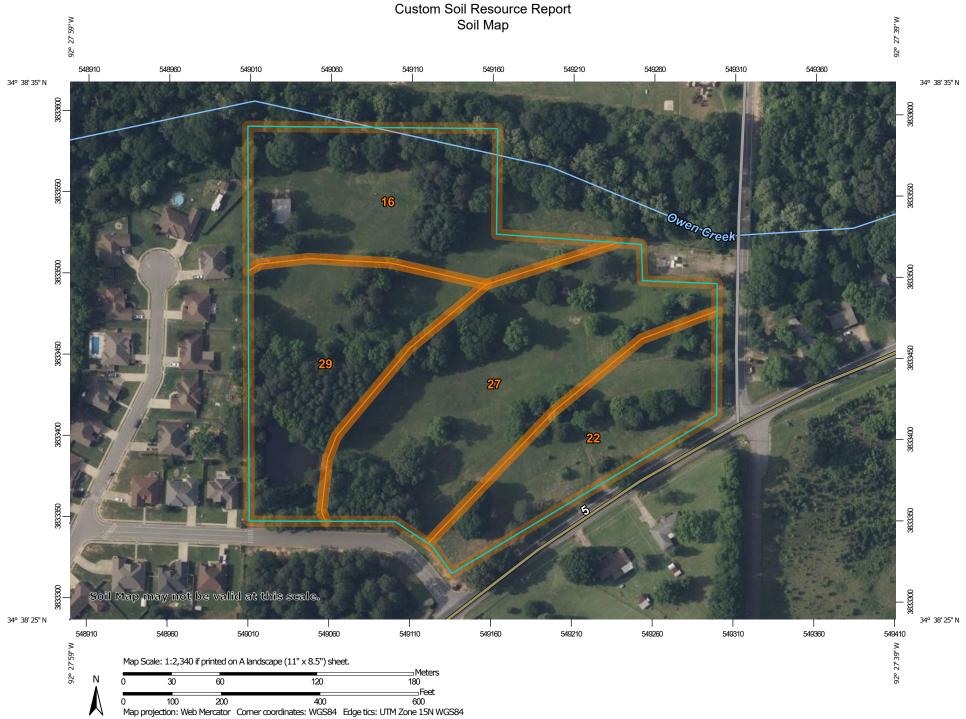
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(0)

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

~

Closed Depression

Š

Gravel Pit

.

Gravelly Spot

0

Landfill

٨.

Lava Flow

Marsh or swamp

_

Mine or Quarry

仌

Miscellaneous Water

0

Perennial Water
Rock Outcrop

 \vee

Saline Spot

~

Sandy Spot

...

Severely Eroded Spot

^

Sinkhole

30

Slide or Slip

Ø

Sodic Spot



Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

_

Streams and Canals

Transportation

Γransp

Rails

~

Interstate Highways

US Routes

 \sim

Major Roads

~

Local Roads

Background

1

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Saline County, Arkansas Survey Area Data: Version 20, Sep 12, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 1, 2022—May 29, 2022

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Ouachita silt loam, 0 to 1 percent slopes, frequently flooded	3.6	25.0%
22	Savannah fine sandy loam, 3 to 8 percent slopes	2.5	17.8%
27	Smithdale loamy sand, 8 to 12 percent slopes	4.9	34.4%
29	Tiak silt loam, 3 to 8 percent slopes	3.3	22.9%
Totals for Area of Interest		14.2	100.0%

Map Unit Descriptions

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

Saline County, Arkansas

16—Ouachita silt loam, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 30g3t

Elevation: 120 to 250 feet

Mean annual precipitation: 48 to 64 inches Mean annual air temperature: 52 to 75 degrees F

Frost-free period: 225 to 290 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Ouachita, frequently flooded, brief duration, and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ouachita, Frequently Flooded, Brief Duration

Setting

Landform: Flood plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy alluvium

Typical profile

A - 0 to 4 inches: silt loam
Bw - 4 to 42 inches: silt loam

2C - 42 to 80 inches: very fine sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm) Available water supply, 0 to 60 inches: High (about 10.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: C

Ecological site: F133BY017TX - Loamy Bottomland

Hydric soil rating: No

Minor Components

Ouachita, frequently flooded, long duration

Percent of map unit: 5 percent Landform: Flood plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: F133BY017TX - Loamy Bottomland

Hydric soil rating: Yes

Aquents, frequently flooded

Percent of map unit: 5 percent

Landform: Depressions

Landform position (three-dimensional): Dip

Down-slope shape: Concave Across-slope shape: Convex

Ecological site: F133BY012TX - Wet Terrace

Hydric soil rating: Yes

Una, frequently flooded

Percent of map unit: 3 percent

Landform: Flood plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: F133BY018TX - Clayey Bottomland

Hydric soil rating: Yes

Guyton, frequently flooded

Percent of map unit: 2 percent

Landform: Flood plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: F133BY017TX - Loamy Bottomland

Hydric soil rating: Yes

22—Savannah fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2tzrt

Elevation: 50 to 250 feet

Mean annual precipitation: 38 to 61 inches
Mean annual air temperature: 52 to 73 degrees F

Frost-free period: 220 to 260 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Savannah and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Savannah

Setting

Landform: Interfluves

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Loamy marine deposits

Typical profile

Ap - 0 to 9 inches: fine sandy loam

Bt - 9 to 24 inches: loam
Btx - 24 to 59 inches: loam
BC - 59 to 72 inches: sandy loam

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 16 to 32 inches to fragipan

Drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: About 16 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C

Ecological site: F133BY005TX - Loamy Upland

Hydric soil rating: No

Minor Components

Amy

Percent of map unit: 5 percent Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Concave Across-slope shape: Linear

Ecological site: F133BY017TX - Loamy Bottomland

Hydric soil rating: Yes

27—Smithdale loamy sand, 8 to 12 percent slopes

Map Unit Setting

National map unit symbol: m06n

Elevation: 70 to 620 feet

Mean annual precipitation: 44 to 61 inches
Mean annual air temperature: 49 to 74 degrees F

Frost-free period: 185 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Smithdale and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Smithdale

Setting

Landform: Interfluves
Down-slope shape: Convex
Across-slope shape: Linear

Parent material: Loamy marine deposits

Typical profile

A - 0 to 6 inches: loamy sand BA - 6 to 15 inches: fine sandy loam Bt1 - 15 to 26 inches: sandy clay loam Bt2 - 26 to 102 inches: fine sandy loam BC - 102 to 123 inches: loamy fine sand

Properties and qualities

Slope: 8 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: F133BY005TX - Loamy Upland

Hydric soil rating: No

29—Tiak silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: m06q

Elevation: 70 to 570 feet

Mean annual precipitation: 44 to 61 inches Mean annual air temperature: 49 to 74 degrees F

Frost-free period: 185 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Tiak and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tiak

Settina

Landform: Interfluves
Down-slope shape: Convex
Across-slope shape: Linear

Parent material: Loamy and clayey marine deposits

Typical profile

A - 0 to 7 inches: silt loam E - 7 to 9 inches: loam Bt1 - 9 to 32 inches: clay Bt2 - 32 to 72 inches: clay

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C/D

Ecological site: F133BY002TX - Seasonally Wet Upland

Hydric soil rating: No

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FEMA FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette

T1S R14W S14

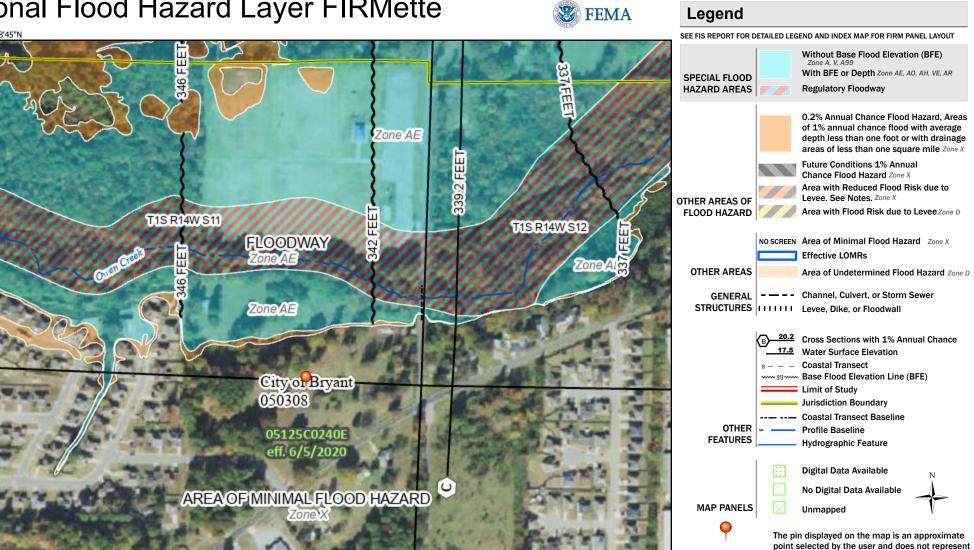
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