



# Bryant Development and Review Committee Meeting

Boswell Municipal Complex - City Hall Conference Room

210 SW 3rd Street

**Date:** September 28, 2023 - **Time:** 9:00 AM

## Call to Order

## Old Business

## New Business

### 1. Hilldale Crossing Ph.3 - Final Plat

*Hope Consulting- Requesting Recommendation for Final Plat Approval*

- [0689-ASB-01.pdf](#)
- [0689-ASB-02.pdf](#)
- [0792-APP-01.pdf](#)
- [0792-BNDLTR-01.pdf](#)
- [0792-LTR-01.pdf](#)
- [0792-PLT-01.pdf](#)

### 2. REQUEST TO ADD: Summerwoods Sports Complex - Gym 3 - Bryant Parkway and Hwy 5

*PLE Engineering - Requesting Recommendation for Site Plan Approval*

- [0783-RPLT-01.pdf](#)
- [0783-DRN-01.pdf](#)
- [0783-PLN-02.pdf](#)

## Staff Approved

### 3. Springhill Grocery - Delek Oil - 2725 Springhill Road

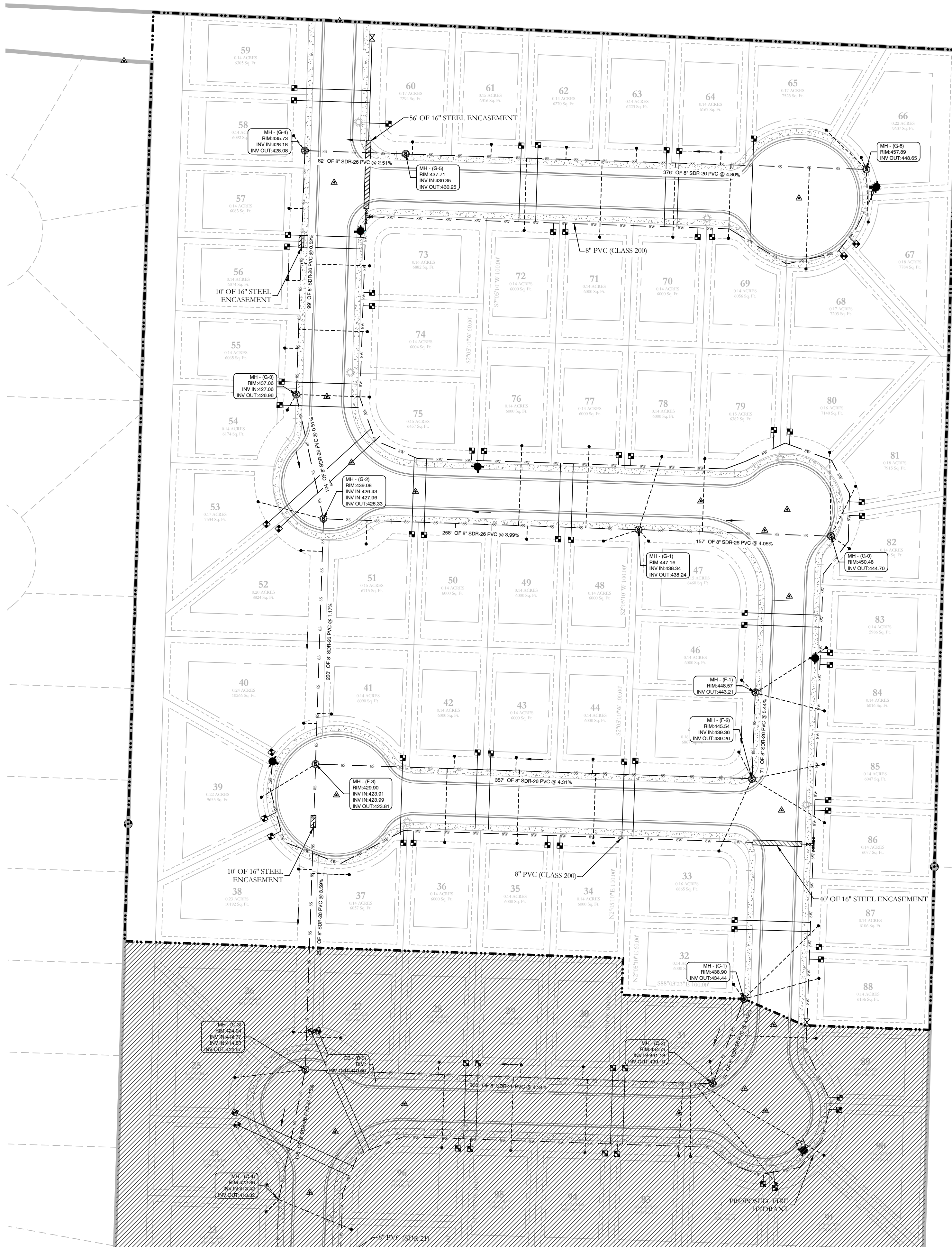
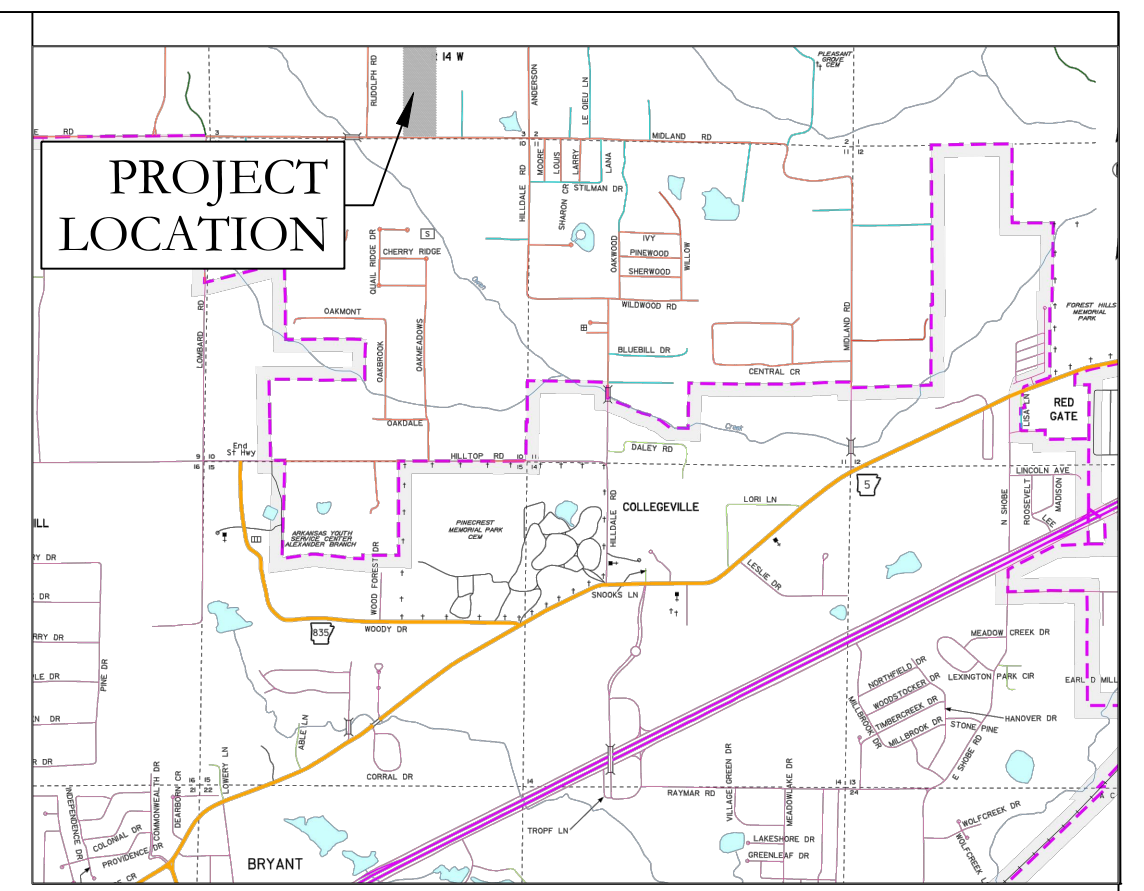
*Edwards Sign Company - Requesting Sign Permit Approval - STAFF APPROVED*

- [0789-APP-01.pdf](#)
- [0787-APP-01.pdf](#)

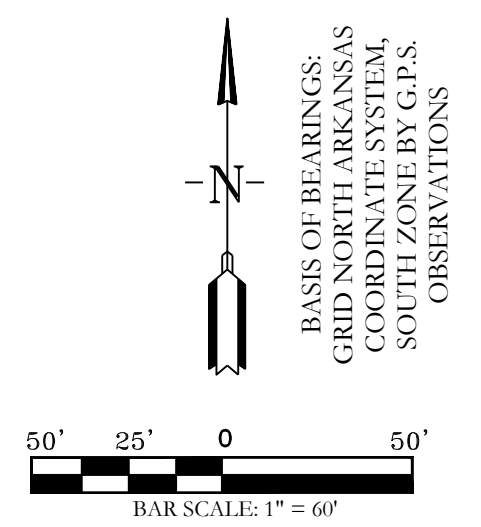
## Permit Report

## Adjournments





**SANITARY SEWER AND WATER AS-BUILTS**  
**HILLDALE CROSSING PHASE 2**  
 A SUBDIVISION IN SALINE COUNTY, ARKANSAS



SEWER LEGEND:	WATER LEGEND:	TYPICAL FIRE HYDRANT:
AIR RELEASE VALVE	3" BLOW OFF	3" BLOW OFF
CLEAN OUT	GATE VALVE	REDUCER
ISOLATION VALVE	REDUCER	8"
SEWER SERVICE	WATER LINE	GATE VALVE
SEWER SERVICE	FIRE HYDRANT	FIRE HYDRANT
	DOUBLE WATER SERVICE	
	SINGLE WATER SERVICE	

NOTE: PROPOSED SEWER MAINS IS TO HAVE TRACER WIRE. ALSO A NON-BIODEGRADABLE TRENCH ABOVE THE SEWER MAINS.

NOTE: ALL FIRE HYDRANT LEADERS HAVE A GATE VALVE BETWEEN MAIN AND FIRE HYDRANT.



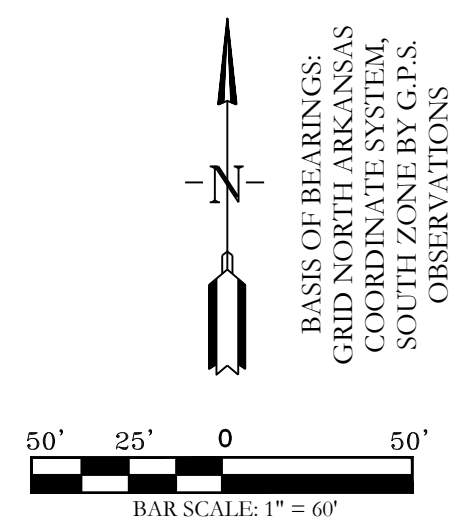
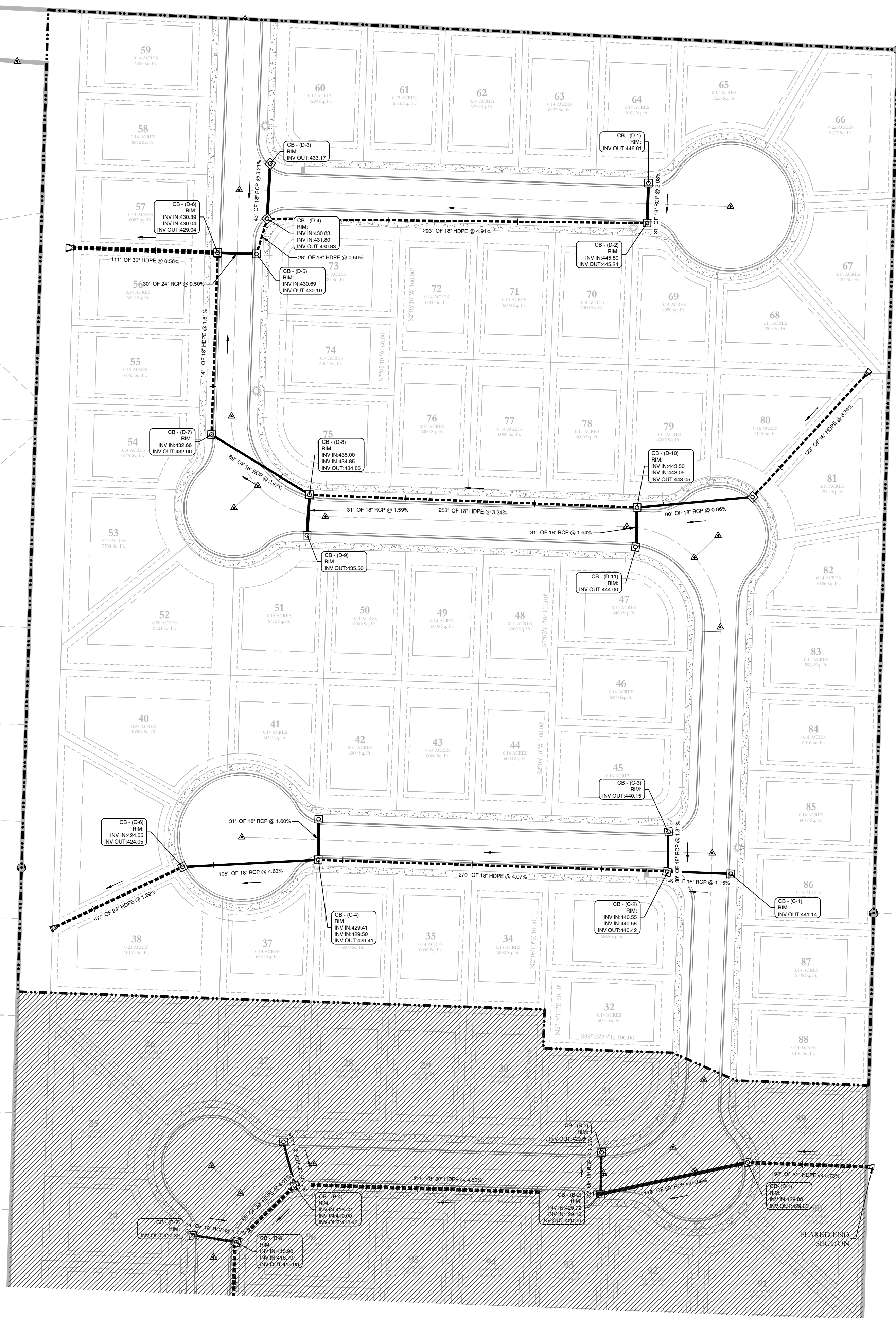
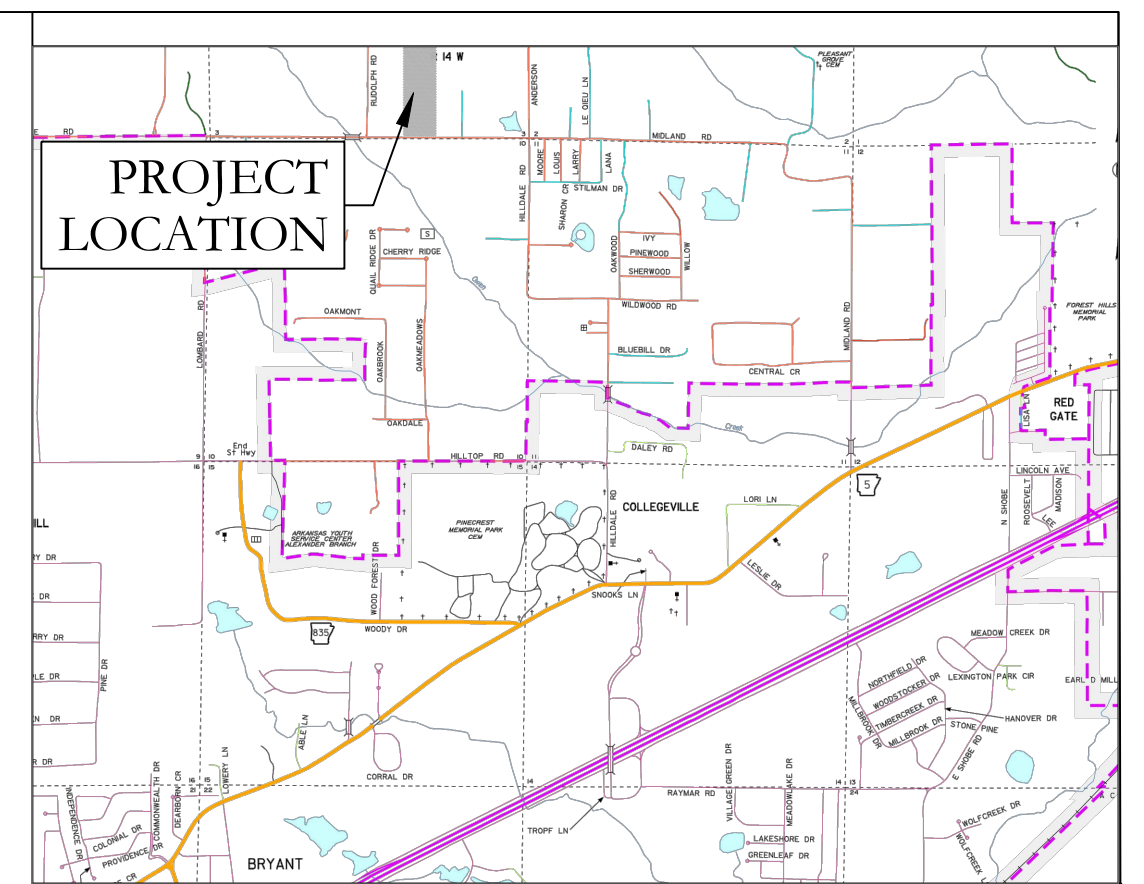
**HOPE CONSULTING ENGINEERS - SURVEYORS** 117 S. Market Street, Benton, Arkansas 72015  
 PH. (501)315-2626 FAX (501) 315-0024 www.hopeconsulting.com

FOR USE AND BENEFIT OF:  
 HAVENS DEVELOPMENT, LLC

WATER & SEWER AS-BUILTS PLAN  
 HILLDALE CROSSING PHASE 2  
 A SUBDIVISION IN SALINE COUNTY, ARKANSAS

DATE: 12/20/2021	C.A.D. BY: BJOHNSON	DRAWING NUMBER: 20-0169
REVISED:	CHECKED BY:	SCALE: 1"=50'
500	01S	14W 0 03 330 62 1762





**DRAINAGE AS-BUILTS**  
**HILLDALE CROSSING PHASE 2**  
 A SUBDIVISION IN SALINE COUNTY, ARKANSAS



		117 S. Market Street, Benton, Arkansas 72015 PH. (501)315-2626 FAX (501) 315-0024 www.hopeconsulting.com	
FOR USE AND BENEFIT OF: HAVENS DEVELOPMENT, LLC			
DRAINAGE AS-BUILTS PLAN HILLDALE CROSSING PHASE 2 A SUBDIVISION IN SALINE COUNTY, ARKANSAS			
DATE:	12/20/2022	C.A.D. BY:	BJOHNSON
REVISIONS:		CHECKED BY:	
500	01S	14W	0   03
		SCALE: 1"=50'	
		DRAWING NUMBER:	20-0169
330	62	1762	



# Bryant Planning Commission

## Subdivision Checklist

Approved by  
Bryant Planning Commission  
07/14/2003 Revised 6/18/2007

### Instructions

The attached checklist must be completed by the owner and subdivision engineer and must be submitted along with the Preliminary Plat Plan and other specified documentation for review and approval by the Planning Commission. The owner may not begin developing the subdivision until the review of the Preliminary Plat plan is approved.

**No changes or alterations can be made to the approved Preliminary Plat Plan** without Planning Commission approval.

When all lots have been surveyed, the utilities and drainage measures are in place, and roads have been constructed, the owner and engineer will submit a Final Plat Plan for approval by the Commission. This Final Plat Plan will incorporate all approved changes and will be verified by the City Engineer. No lots will be sold or rights-of-way and easements conveyed until the Final Plat has been submitted and approved.

#### **Fees due to City of Bryant upon submission of Preliminary Plat application**

- \$300.00 + \$3.00 per lot - for Subdivision preliminary plat review
- \$250.00 or \$25.00 per lot (**whichever is greater**) - Stormwater Detention and Drainage Plan Engineering Fee
- A Surety Bond or Cashier's check in the amount of 10% of the estimated development cost must be furnished within 10 days after Preliminary Plat approval.

#### **Fees due to Bryant Water and Sewer Department upon submission of Final Plat application**

- \$100 per lot - Water/Sewer Impact Fee
- \$100 per Subdivision Phase - Water/Sewer Flushing Fee

#### **Fees due to City of Bryant upon submission of Final Plat application**

- \$25.00 + \$1.00 per lot - for Subdivision Final Plat review

#### Final Plat Fees

Check Payable to City of Bryant for Review fee of \$63

Check Payable to Bryant Water and Sewer Department for \$7,600



# City of Bryant Subdivision Checklist

Subdivision/Project Name Hilldale Crossing

Contact Person Jonathan Hope Phone 501-860-0467

Mailing Address 129 N. Main Street Benton, Arkansas

## I. BASIC INFORMATION NEEDED ON THE PLAT

- √ ▲ 1. Name of Subdivision/Project
- √ ▲ 2. Current zoning N/A
- √ ▲ 3. Name and Address of owner of Record
- √ ▲ 4. Illustrate Source of Title giving deed record book and page number
- √ ▲ 5. Name & address of the sub-divider
- √ ▲ 6. Date of Survey
- √ ▲ 7. Vicinity map locating streets, highways, section lines, railroad, schools, & parks within ½ mile
- √ ▲ 8. Legal description of the property with exact boundary lines
- √ ▲ 9. Acreage of property
- √ ▲ 10. Number of Lots
- √ ▲ 11. Lot area in square feet
- √ ▲ 12. Lot lines with appropriate dimensions
- √ ▲ 13. Building setback lines
- √ ▲ 14. Preliminary Engineering certificate seal and signature on each page
- √ ▲ 15. Certificate of Engineering Accuracy
- √ ▲ 16. Certificate of Owner
- √ ▲ 17. Certificate of Final Plat Approval
- √ ▲ 18. Certificate of Recording
- √ ▲ 19. Show scale (not less than 1" = 100')
- √ ▲ 20. North Arrow
- √ ▲ 21. Show Title block
- √ ▲ 22. Show adjoining property owners
- √ ▲ 23. Layout of all proposed streets including traffic control devices (stop signs, speed limit, etc.)
- √ ▲ 24. Layout of all subdivision entrance street upgrades
- √ ▲ 25. Layout of all proposed alleys
- √ ▲ 26. Layout of all proposed sidewalk systems
- √ ▲ 27. Layout identifies any FEMA flood plain and flood way property within the 100-year flood elevation. (Provide Corp of Engineers 404 Permit if required)
- √ ▲ 28. Drainage easements for stormwater run-off and detention giving dimensions, locations, and purpose
- √ ▲ 29. Layout accommodates Master Street Plan segments within the boundaries
- √ ▲ 30. Street layout ties to existing adjoining subdivision stub-out streets and provides stub-out streets for future adjoining subdivisions.
- √ ▲ 31. Street width and right-of-way properly shown for each functional classification
- √ ▲ 32. Street centerlines showing angles of deflection, intersection, radii, length oftangents and arcs, and degree of curvature with basis of curve data
- √ ▲ 33. Typical cross section of streets
- √ ▲ 34. Location and name of existing streets
- √ ▲ 35. New street names that are not similar to existing street names
- √ ▲ 36. Show street lights
- √ ▲ 37. Show Fire Hydrant placement



- √ ▲ 38. Show and label all permanent & proposed easements
- √ ▲ 39. Any proposed open space must be shown
- √ ▲ 40. Show the direction and flow of all water courses entering the tract
- √ ▲ 41. Show the direction and flow of all water courses leaving the tract
- √ ▲ 42. The drainage area of all water courses above the points of entry.
- √ ▲ 43. The downstream drainage channel and drainage structures substantially impacted by the subdivision/project.
- √ ▲ 44. Show source of water supply
- √ ▲ 45. Show location of waste water connection to municipal main & sanitary sewer layout
- √ ▲ 46. A phasing plan outlining the boundaries for each phase

## II. ADDITIONAL INFORMATION NEEDED, BUT NOT NECESSARILY ON THE PLAT

- √ ▲ 47. Natural features within the proposed subdivision including drainage channels, bodies of water, wooded areas, and other significant features
- √ ▲ 48. Existing streets, buildings, water courses, railroads. Culverts, utilities and easement on and adjacent to the tract.
- √ ▲ 49. Where method of disposal of wastewater is other than connection to a public waste water system, detailed information shall accompany the plat.
- √ ▲ 50. Calculations and field notes, including drainage calculations along with support drawing
- 51. Stormwater detention plan approval from City Engineer (attach copy of approval)
- √ ▲ 52. The Certificate of Preliminary Engineering Accuracy on each set of street and drainage plans.
- √ ▲ 53. ADA Accessibility Standard Form completed (and attached)
- √ ▲ 54. A Bill of Assurance has been prepared for this subdivision (and attached)
- √ ▲ 55. All lots comply with minimum square footage area and minimum lot width at the front building line
- √ ▲ 56. Street pavement design will be as specified by City or AHTD design procedures, approved by the City Engineer.
- √ ▲ 57. Made the "One Call" prior to site clearance or other excavation activity

## III. PRELIMINARY PLAT ATTACHMENTS

**(APPLICATION WILL NOT BE ACCEPTED UNTIL ALL ATTACHMENT REQUIREMENTS ARE MET)**

- √ ▲ 58. Letter to Planning Commission stating your request
- √ ▲ 59. Completed Checklist
- √ ▲ 60. Completed agreement to provide performance assurance
- √ ▲ 61. Subdivider Performance Bond or Cashier's Check for infrastructure installation
- √ ▲ 62. Landscaping plan of any proposed common open space
- √ ▲ 63. Draft of Bill of Assurance proposed for the subdivision (if applicable)
- √ ▲ 64. 20 copies of Preliminary Plat Plan (folded) that includes vicinity map (minimum size 17" X 34" paper)
- √ ▲ 65. Two (2) IBM compatible diskettes or CDR's with pertinent data and Plat in CAD compatible .DXF electronic file format
- √ ▲ 66. Copy of Stormwater Detention approval
- √ ▲ 67. 2 copies Plan and profile of all streets
- √ ▲ 68. Receipt for \$300.00 + \$3.00 per lot for preliminary Subdivision fee
- √ ▲ 69. Receipt for \$250.00 or \$25.00 per lot (whichever is greater) for Stormwater Detention and Drainage Plan review
- √ ▲ 70. Copy of ADEQ Stormwater Pollution Prevention Plan for property parcel containing one acre or larger.

**III. FINAL PLAT ATTACHMENTS**

**(APPLICATION WILL NOT BE ACCEPTED UNTIL ALL ATTACHMENT REQUIREMENTS ARE MET)**

- ▲ 71. Letter to Planning Commission stating your request
- ▲ 72. Completed Checklist
- ▲ 73. 20 copies of Final Plat Plan (folded) that includes vicinity map (minimum size 17" X 34" paper)
- ▲ 74. Two (2) IBM compatible diskettes or CDR's with pertinent data and Plat in CAD compatible .DXF electronic file format
- ▲ 75. Bill of Assurance including provisions set out in Title 15 Subdivision Regulations 15.16.01
- ▲ 76. Copy of Water & Sewer Commission approval or....
- ▲ 77. State Health Department approval of any new water supply and/or sewage system.
- ▲ 78. Letter submitted by a Registered Professional Engineer, certifying that all infrastructure improvements and installations have been installed in accordance with the submitted construction plans and drawings and the standards established by the City of Bryant and are functioning properly.
- ▲ 79. Infrastructure Maintenance Bond or Cashier's check.
- ▲ 80. Check for \$25.00 + \$1.00 per lot for final Subdivision fee
- ▲ 81. Check for Water Sewer impact fees (\$100.00 Flushing Fee and \$100.00 impact fee per lot)

Hilldale Crossing

Jonathan Hope

Name of Subdivision

Surveyor

I HAVE COMPLIED WITH THE REQUIREMENTS LISTED ABOVE AND HAVE CHECKED ALL OF THE BOXES ON THE CHECKLIST WHICH APPLY TO THIS PROJECT SUBMITTAL.

Kazi Islam

Owner Signature

Engineer Signature

**CITY USE**

Preliminary Plat Approved \_\_\_\_\_

Planning Commission Date \_\_\_\_\_

Final Plat Approved \_\_\_\_\_

Planning Commission Date \_\_\_\_\_

Proof of Recording - County \_\_\_\_\_

County Clerk \_\_\_\_\_

Date \_\_\_\_\_





**Saline County Road Department  
5500 Cynamide Road  
Benton, Arkansas 72015  
(501) 303-5690**

September 26, 2023

Havens Development  
2615 North Prickett, Suite 5  
Bryant, AR 72022

Ref: Maintenance Bond to Cover Roads in Hilldale Crossing Phase 3

Dear Mr. Havens;

The maintenance bond to ensure that Havens Development will either correct any defects that arise or that Saline County is compensated for costs resulting from repairs of any defects identified for a period of one year is required. The amount of bond is calculated as \$25.00 per constructed foot of street. Based on the Final Plat, the footage of constructed roads is 1276 feet.

Required Maintenance Bond is  $1276' \times \$25.00 = \underline{\$31,900.0}$ .

The date of expiration of this bond will be one year after the date of bond creation.

Thanks,  
John Wofford PE, PLS

Saline County Engineer.





**HOPE**  
**CONSULTING**  
**ENGINEERS - SURVEYORS**

September 26, 2023

Truett Smith  
City of Bryant  
210 Southwest Third St., Bryant, AR 72022

RE: Hilldale Final Plat Phase 3

Dear Truett:

On behalf of the property owner, Hope Consulting is requesting the final review of this residential subdivision project located in the Bryant ETJ. This subdivision development consists of sewer provided by Bryant, Water provided by Water Users, and Electric provided by First Electric. We are submitting to start the review for the Final plat. It is the desire of our client to be on the October Planning Commission agenda.

The developer of this project is Todd and Callie Havens of Havens Development.

Todd Havens: [todd@havensdev.com](mailto:todd@havensdev.com)

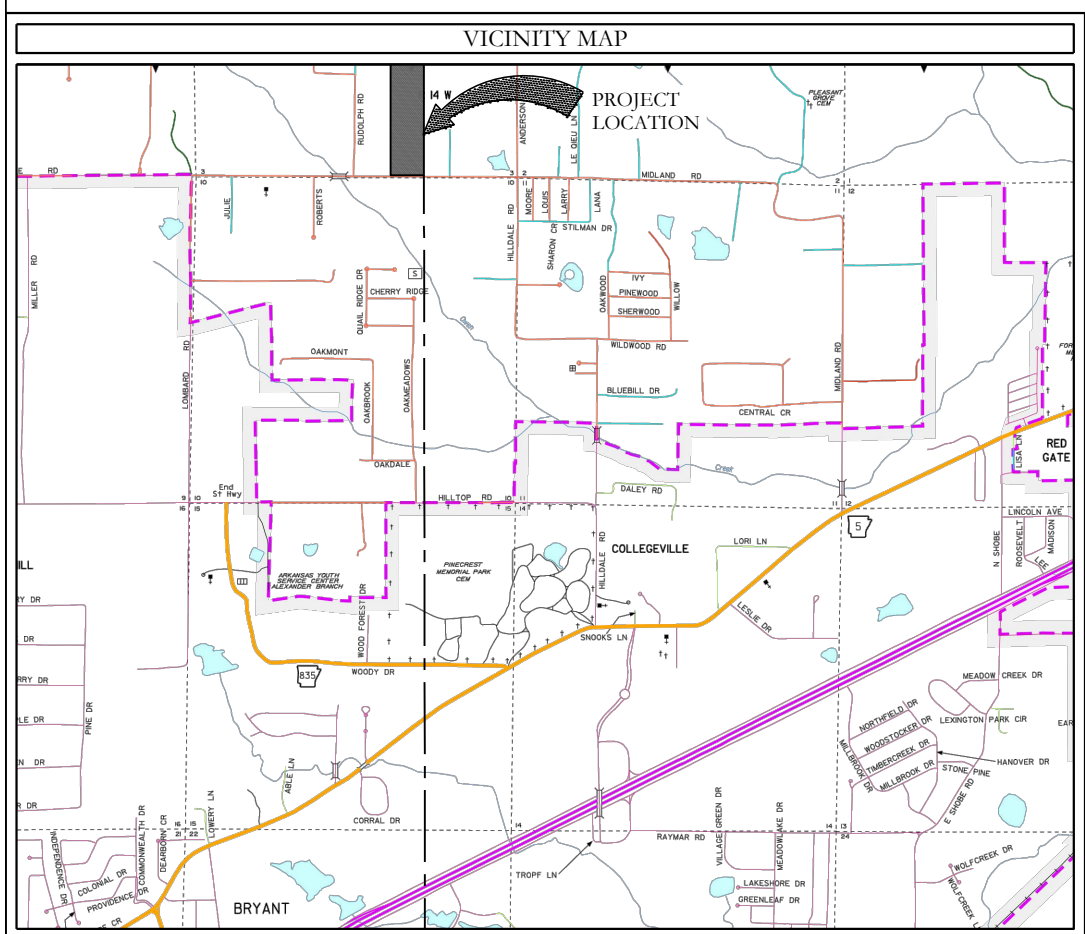
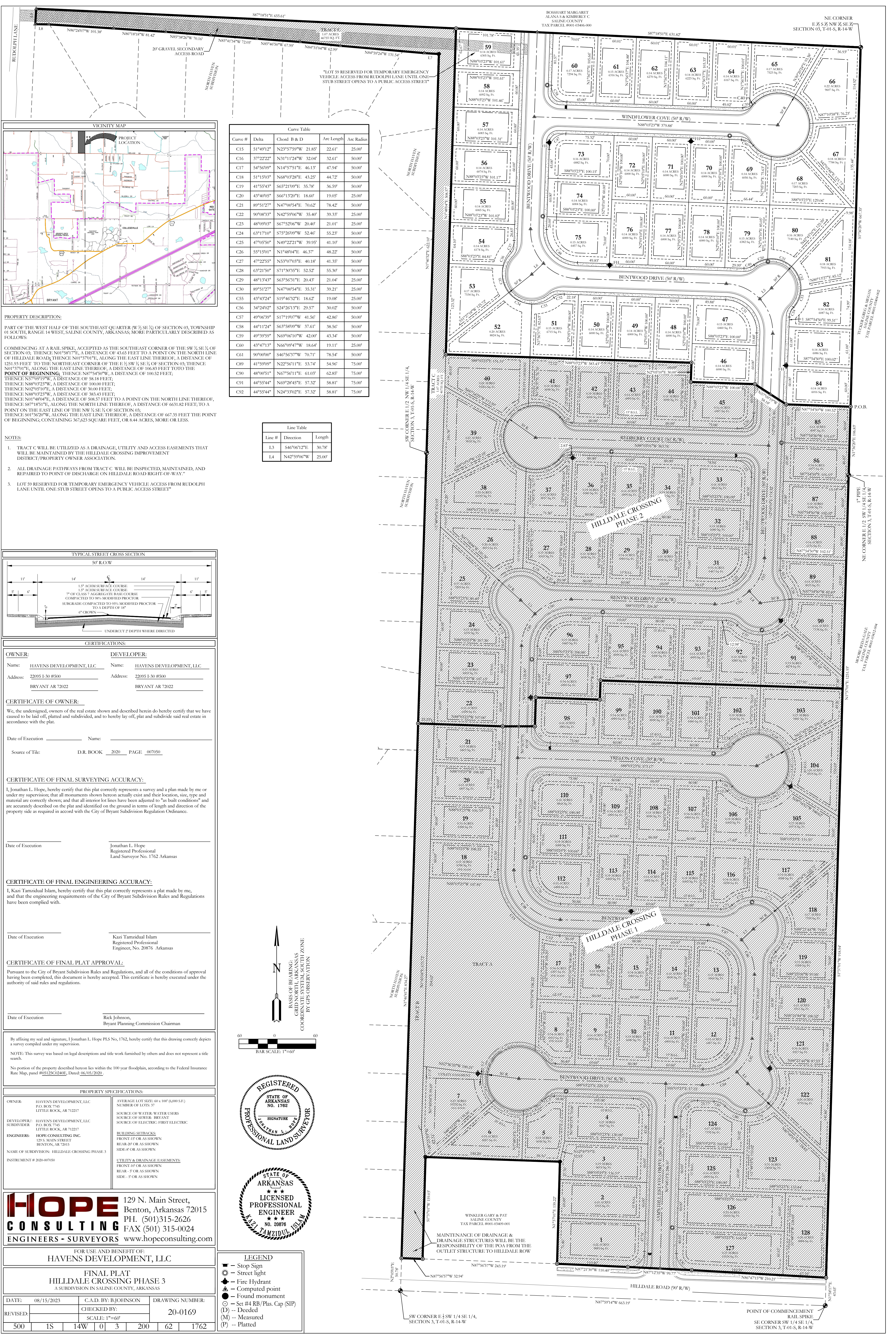
Please feel free to contact me with any questions or concerns or if I can be of any further assistance.

Sincerely,

  
Jonathan Hope

129 N MAIN ST. BENTON, ARKANSAS 72015  
501-315-2626  
[WWW.HOPECONSULTING.COM](http://WWW.HOPECONSULTING.COM)





**Curve Table**

Curve #	Delta	Chord B & D	Arc Length	Arc Radius
C15	51°49'12"	N23°57'59"W 21.85'	22.61'	25.00'
C16	37°22'22"	N31°11'24"W 32.04'	32.61'	50.00'
C17	54°56'09"	N14°57'51"E 46.13'	47.94'	50.00'
C18	51°15'03"	N68°03'28"E 43.25'	44.72'	50.00'
C19	41°55'43"	S65°21'09"E 35.78'	36.59'	50.00'
C20	43°40'05"	S66°13'20"E 18.60'	19.05'	25.00'
C21	89°51'27"	N47°04'54"E 70.62'	78.42'	50.00'
C22	90°08'35"	N42°59'06"W 35.40'	39.33'	25.00'
C23	48°09'03"	S67°52'06"W 20.40'	21.01'	25.00'
C24	63°17'10"	S75°26'09"W 52.46'	55.23'	50.00'
C25	47°05'50"	N49°22'21"W 39.93'	41.10'	50.00'
C26	55°15'01"	N1°48'04"E 46.37'	48.22'	50.00'
C27	47°22'55"	N53°07'03"E 40.18'	41.35'	50.00'
C28	63°21'50"	S71°34'35"E 52.52'	55.30'	50.00'
C29	48°13'43"	S63°56'31"E 20.43'	21.04'	25.00'
C30	89°51'27"	N47°04'54"E 35.31'	39.21'	25.00'
C35	43°43'24"	S19°46'32"E 18.62'	19.08'	25.00'
C36	34°24'02"	S24°26'13"E 29.57'	30.02'	50.00'
C37	49°06'39"	S17°19'07"W 41.56'	42.86'	50.00'
C38	44°11'24"	S63°58'09"W 37.61'	38.50'	50.00'
C39	49°59'59"	N69°04'10"W 42.00'	43.34'	50.00'
C40	43°47'13"	N66°09'47"W 18.64'	19.11'	25.00'
C41	90°00'00"	S46°56'37"W 70.71'	78.54'	50.00'
C49	41°59'09"	N22°56'11"E 53.74'	54.90'	75.00'
C50	48°00'51"	N67°56'11"E 61.03'	62.85'	75.00'
C51	44°55'44"	N69°28'45"E 57.32'	58.81'	75.00'
C52	44°55'44"	N24°33'02"E 57.32'	58.81'	75.00'

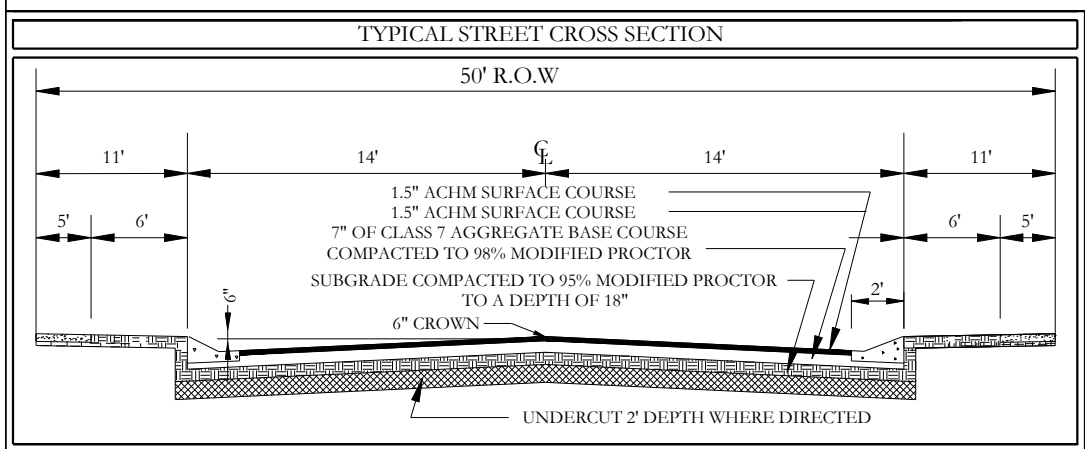
**Lane Table**

Lane #	Direction	Length
L3	S46°06'12"E	30.78'
L4	N42°59'06"W	25.00'

**PROPERTY DESCRIPTION:**  
PART OF THE WEST HALF OF THE SOUTHEAST QUARTER (W 1/2 SE 1/4) OF SECTION 03, TOWNSHIP 01 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS; MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A RAIL SPIKE, ACCEPTED AS THE SOUTHEAST CORNER OF THE SW 1/4 SE 1/4 OF SECTION 03, THENCE N01°58'17"E, A DISTANCE OF 43.65 FEET TO A POINT ON THE NORTH LINE OF HILLDALE ROAD; THENCE S01°57'01"E, ALONG THE EAST LINE THEREOF, A DISTANCE OF 1251.93 FEET TO THE NORTHEAST CORNER OF THE E 1/2 SW 1/4 SE 1/4 OF SECTION 03, THENCE N01°57'01"E, ALONG THE EAST LINE THEREOF, A DISTANCE OF 106.83 FEET TO THE POINT OF BEGINNING; THENCE N87°54'50"W, A DISTANCE OF 100.52 FEET; THENCE N57°07'19"W, A DISTANCE OF 58.18 FEET; THENCE N88°03'23"W, A DISTANCE OF 100.00 FEET; THENCE N02°57'01"E, A DISTANCE OF 30.00 FEET; THENCE N88°03'23"W, A DISTANCE OF 383.43 FEET; THENCE N01°48'04"E, A DISTANCE OF 508.57 FEET TO A POINT ON THE NORTH LINE THEREOF, THENCE S87°18'51"E, ALONG THE NORTH LINE THEREOF, A DISTANCE OF 663.82 FEET; TO A POINT ON THE EAST LINE OF THE NW 1/4 SE 1/4 OF SECTION 03, THENCE S01°56'20"W, ALONG THE EAST LINE THEREOF, A DISTANCE OF 667.35 FEET TO THE POINT OF BEGINNING; CONTAINING 367,623 SQUARE FEET, OR 8.44 ACRES, MORE OR LESS.

- NOTES:**
- TRACT C WILL BE UTILIZED AS A DRAINAGE, UTILITY AND ACCESS EASEMENTS THAT WILL BE MAINTAINED BY THE HILLDALE CROSSING IMPROVEMENT DISTRICT/PROPERTY OWNER ASSOCIATION.
  - ALL DRAINAGE PATHWAYS FROM TRACT C WILL BE INSPECTED, MAINTAINED, AND REPAIRED TO POINT OF DISCHARGE ON HILLDALE ROAD RIGHT-OF-WAY.
  - LOT 59 RESERVED FOR TEMPORARY EMERGENCY VEHICLE ACCESS FROM RUDOLPH LANE UNTIL ONE SUB STREET OPENS TO A PUBLIC ACCESS STREET.



**CERTIFICATIONS:**

OWNER:	DEVELOPER:
Name: HAVENS DEVELOPMENT, LLC Address: 22095 1-30 #500 BRYANT AR 72022	Name: HAVENS DEVELOPMENT, LLC Address: 22095 1-30 #500 BRYANT AR 72022

**CERTIFICATE OF OWNER:**  
We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have caused to be laid off, platted and subdivided, and to hereby lay off, plat and subdivide said real estate in accordance with the plat.

Date of Execution \_\_\_\_\_ Name: \_\_\_\_\_

Source of Title: DR. BOOK 2020 PAGE 007050

**CERTIFICATE OF FINAL SURVEYING ACCURACY:**  
I, Jonathan L. Hope, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their location, size, type and material are correctly shown; and that all interior lot lines have been adjusted to "as built conditions" and are accurately described on the plat and identified on the ground in terms of length and direction of the property side as required in accord with the City of Bryant Subdivision Regulation Ordinance.

Date of Execution \_\_\_\_\_ Jonathan L. Hope  
Registered Professional  
Land Surveyor No. 1762 Arkansas

**CERTIFICATE OF FINAL ENGINEERING ACCURACY:**  
I, Kazi Tamizul Islam, hereby certify that this plat correctly represents a plan made by me, and that the engineering requirements of the City of Bryant Subdivision Rules and Regulations have been complied with.

Date of Execution \_\_\_\_\_ Kazi Tamizul Islam  
Registered Professional  
Engineer, No. 20876 Arkansas

**CERTIFICATE OF FINAL PLAT APPROVAL:**  
Pursuant to the City of Bryant Subdivision Rules and Regulations, and all of the conditions of approval having been completed, this document is hereby accepted. This certificate is hereby executed under the authority of said rules and regulations.

Date of Execution \_\_\_\_\_ Rick Johnson,  
Bryant Planning Commission Chairman

By affixing my seal and signature, I Jonathan L. Hope PLS No. 1762, hereby certify that this drawing correctly depicts a survey compiled under my supervision.

NOTE: This survey was based on legal descriptions and title work furnished by others and does not represent a title search.

No portion of the property described hereon lies within the 100 year floodplain, according to the Federal Insurance Rate Map, panel #05125C0200E, Dated: 06/05/2020.

**PROPERTY SPECIFICATIONS:**

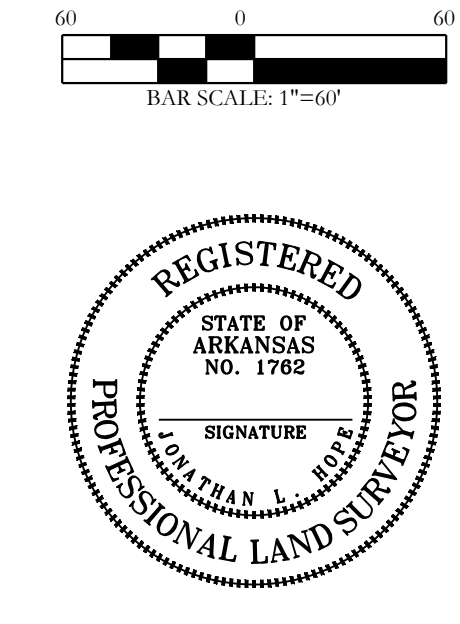
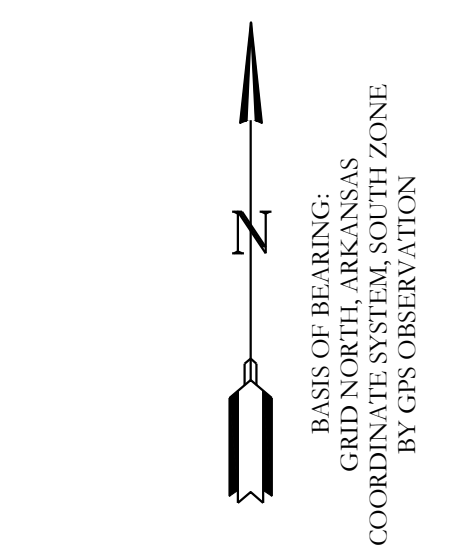
OWNER: HAVENS DEVELOPMENT, LLC P.O. BOX 7745 LITTLE ROCK, AR 72217	AVERAGE LOT SIZE: 60 x 100' (6,000 SF) NUMBER OF LOTS: 37
DEVELOPER: HAVENS DEVELOPMENT, LLC P.O. BOX 7745 LITTLE ROCK, AR 72217	SOURCE OF WATER: WATER USERS SOURCE OF SEWER: BRYANT SOURCE OF ELECTRIC: FIRST ELECTRIC
ENGINEERS: HOPE CONSULTING INC. 125 N. MAIN STREET BENTON, AR 72015	BUILDING SETBACKS: FRONT: 15' OR AS SHOWN REAR: 20' OR AS SHOWN SIDE: 8' OR AS SHOWN
NAME OF SUBDIVISION: HILLDALE CROSSING PHASE 3 INSTRUMENT # 2020-067050	UTILITY & DRAINAGE EASEMENTS: FRONT: 10' OR AS SHOWN REAR: 5' OR AS SHOWN SIDE: 5' OR AS SHOWN

**HOPE CONSULTING ENGINEERS - SURVEYORS**  
129 N. Main Street,  
Benton, Arkansas 72015  
PH. (501)315-2626  
FAX (501) 315-0024  
www.hopeconsulting.com

FOR USE AND BENEFIT OF:  
**HAVENS DEVELOPMENT, LLC**

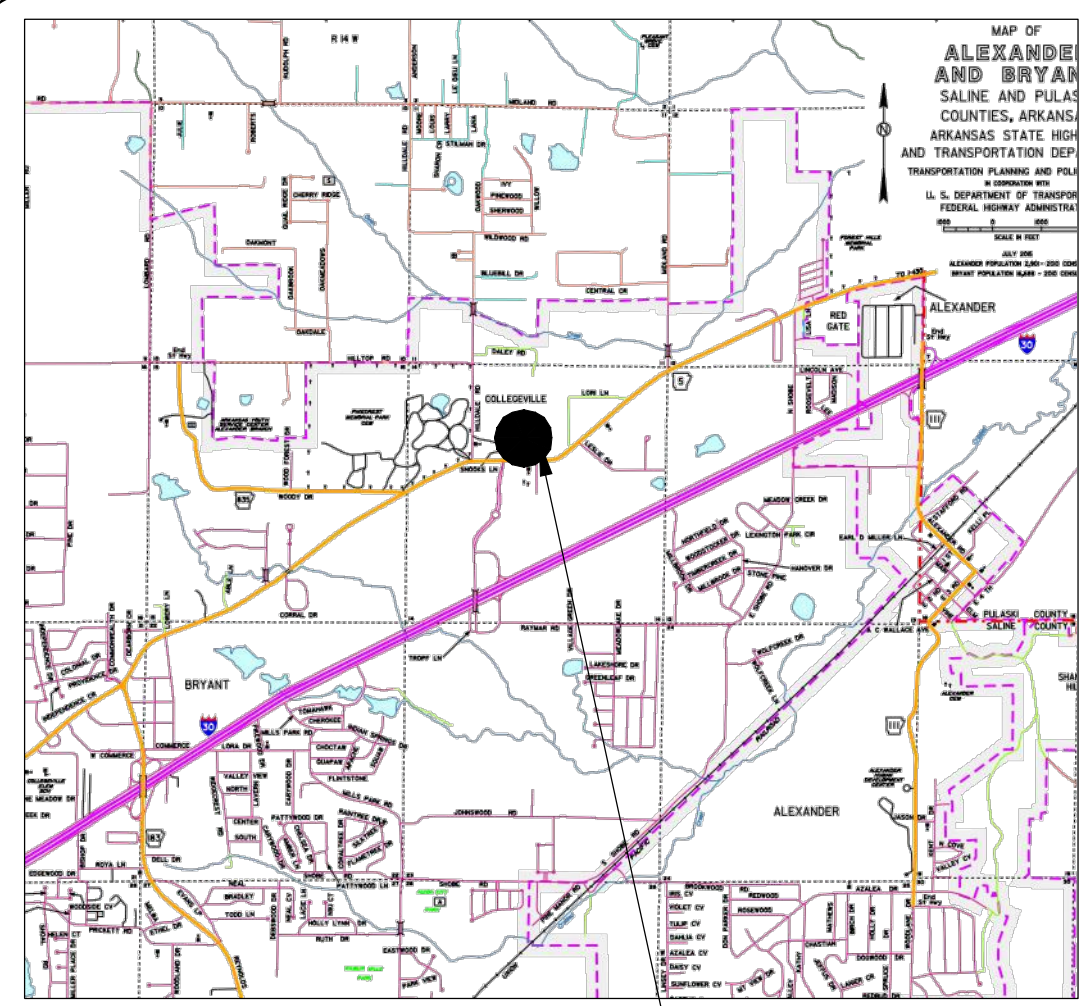
**FINAL PLAT  
HILLDALE CROSSING PHASE 3  
A SUBDIVISION IN SALINE COUNTY, ARKANSAS**

DATE:	C.A.D. BY:	DRAWING NUMBER:
08/15/2023	B. JOHNSON	20-0169
REVISIONS:	CHECKED BY:	SCALE:
500	1S	14W
0	3	200
62	1762	

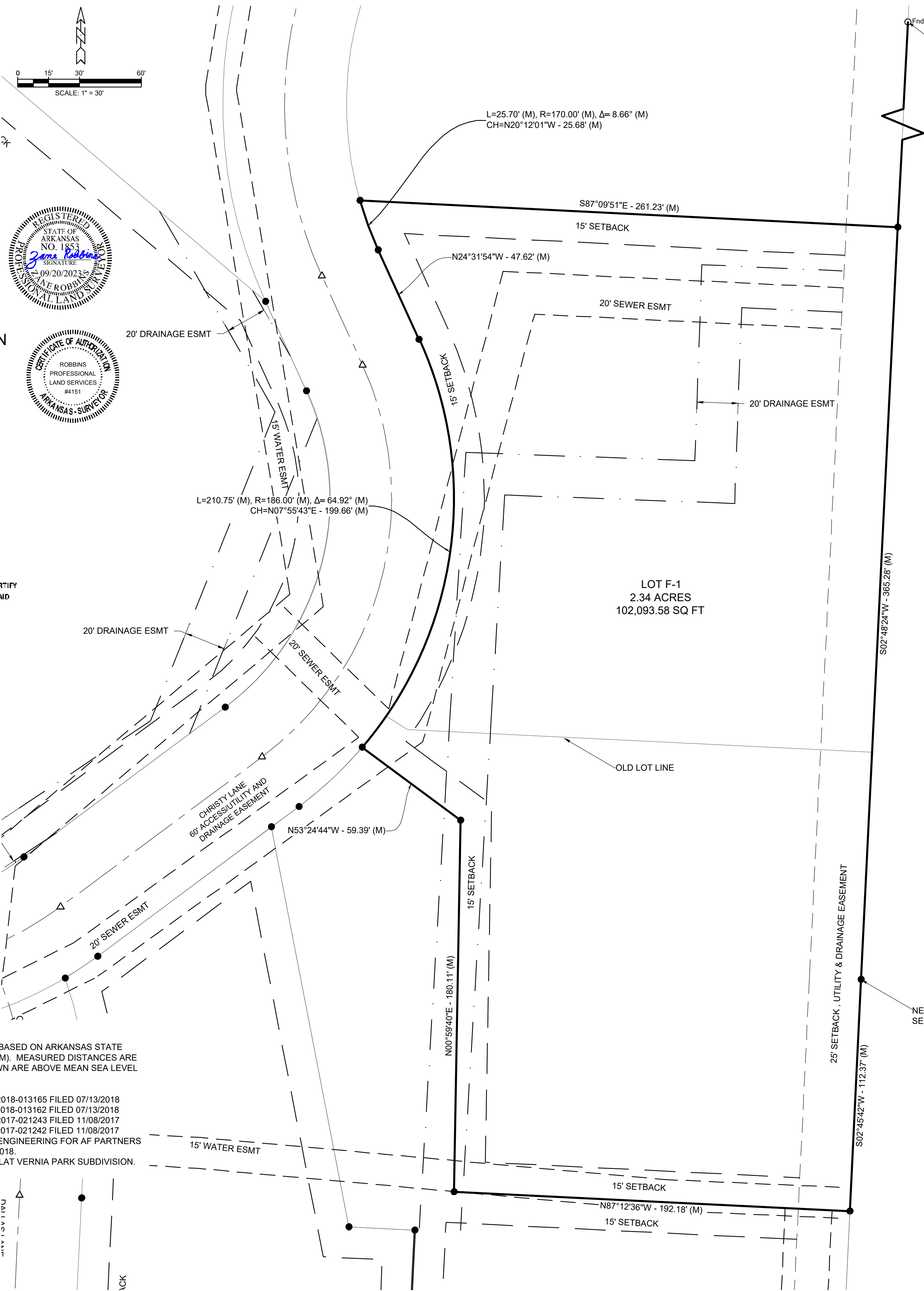


- LEGEND**
- Stop Sign
  - Street light
  - Fire Hydrant
  - Computed point
  - Found monument
  - Set #4 RB/Plas. Cap (SIP)
  - Decded
  - Measured
  - Platted





VICINITY MAP  
SITE LOCATION



**LEGEND OF SYMBOLS & ABBREVIATIONS**

●	GAS METER	N	NORTH	ASPHALT
○	WATER METER	S	SOUTH	CONCRETE
—	GUY WIRE	E	EAST	
⊙	POWER/UTILITY POLE	W	WEST	
□	TELEPHONE PEDESTAL	(M)	AS MEASURED	
⊕	SEWER MANHOLE	(D)	PER DEED	
⊖	WATER VALVE	R/W	RIGHT-OF-WAY	
⊗	FIRE HYDRANT	L.A.	LANDSCAPED AREA	
⊙	SIGNS	CR4	CAPPED 1/2" REBAR	
⊙	LIGHT POLE	CONC.	CONCRETE	
⊙	TELEPHONE MANHOLE	P.O.C.	POINT OF COMMENCEMENT	
---	SANITARY SEWER LINE	P.O.B.	POINT OF BEGINNING	
---	WATER LINE	CMP	CORRUGATED METAL PIPE	
---	STORM SEWER PIPE	RCP	REINFORCED CONCRETE PIPE	
---	ROADWAY CENTERLINE	ESMT	EASEMENT	
---	WATER & SEWER EASEMENT	SUBD	SUBDIVISION	
---	BUILDING SETBACK LINE	HOPE	HIGH DENSITY POLYETHYLENE	
---	ROADWAY RIGHT-OF-WAY	FDC	FIRE DEPARTMENT CONNECTION	
---	OVERHEAD ELECTRIC LINES			
---	UNDERGROUND TELEPHONE			
---	UNDERGROUND GAS			
---	UNDERGROUND FIBER OPTIC			
---	FENCE			
---	STEEL GUARD RAIL			
---	[100]			

PARCEL NO. 840-11660-101  
OWNER: AF PARTNERS LLC  
ZONED C-2

**LAND DESCRIPTION**

LOT F-1, A REPLAT OF LOT F, VERNIA PARK SUBDIVISION PHASE 1, AN ADDITION TO THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
COMMENCING AT A 3/8" REBAR AS THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 NORTHEAST 1/4 NORTHWEST 1/4 OF SECTION 14, TOWNSHIP 1 SOUTH, RANGE 14 WEST; THENCE SOUTH 02° 48' 24" WEST A DISTANCE OF 274.38 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 02° 48' 24" WEST A DISTANCE OF 365.28 FEET TO A POINT; THENCE SOUTH 02° 45' 42" WEST A DISTANCE OF 112.37 FEET TO A POINT; THENCE NORTH 87° 12' 36" WEST A DISTANCE OF 192.18 FEET TO A POINT; THENCE NORTH 00° 50' 40" EAST A DISTANCE OF 180.11 FEET TO A POINT; THENCE NORTH 53° 24' 44" WEST A DISTANCE OF 59.39 FEET TO A POINT; THENCE ALONG A CURVE TO THE LEFT WITH A LENGTH OF 210.75 FEET, RADIUS OF 186.00 FEET, AND A CHORD BEARING AND DISTANCE OF NORTH 07° 55' 43" EAST - 199.86 FEET TO A POINT; THENCE NORTH 24° 31' 54" WEST A DISTANCE OF 47.62 FEET TO A POINT; THENCE ALONG A CURVE TO THE RIGHT WITH A LENGTH OF 25.70 FEET, RADIUS OF 170.00 FEET, AND A CHORD BEARING AND DISTANCE OF NORTH 20° 12' 01" WEST - 25.68 FEET TO A POINT; THENCE SOUTH 87° 09' 51" EAST A DISTANCE OF 261.23 FEET TO THE POINT OF BEGINNING, CONTAINING 2.34 ACRES MORE OR LESS.

**UTILITY EASEMENTS:**  
WATER EASEMENTS TO BE 15' IN WIDTH CENTERED OVER CENTERLINE OF WATER LINES AS CONSTRUCTED.  
SEWER EASEMENTS TO BE 20' IN WIDTH CENTERED OVER CENTER LINE OF SEWER LINES AS CONSTRUCTED

**FLOOD STATEMENT**  
BY GRAPHIC PLOTTING ALONE, ACCORDING TO FEMA FIRM #05125C0240E, DATED JUNE 5, 2020, THIS PROPERTY LIES IN ZONE X, AREAS OF MINIMAL FLOOD HAZARD.

**CERTIFICATE OF SURVEY ACCURACY**  
I, ZANE ROBBINS, HEREBY CERTIFY THAT THIS REPLAT CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE OR VERIFIED BY ME, THAT ALL SURVEYING REQUIREMENTS OF THE STATE OF ARKANSAS AND CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH AND FILED FOR RECORD AS REQUIRED.

DATE OF EXECUTION: 9-20-23  
REGISTERED PROFESSIONAL LAND SURVEYOR: Zane Robbins, No. 1853 ARKANSAS

**CERTIFICATE OF OWNER**  
WE, THE UNDERSIGNED, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE HAVE LAID OFF, PLATTED AND SUBDIVIDED, AND DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS PLAT.

**CERTIFICATE OF ENGINEERING ACCURACY**  
I, PHILLIP A. LEWIS, HEREBY CERTIFY THAT THIS REPLAT CORRECTLY REPRESENTS A PLAT MADE BY ME, AND THAT ENGINEERING REQUIREMENTS OF THE CITY OF BRYANT SUBDIVISION RULES AND REGULATIONS HAVE BEEN COMPLIED WITH.

REGISTERED PROFESSIONAL ENGINEER: Phillip A. Lewis, No. 9540 ARKANSAS

**CERTIFICATE OF FINAL PLAT APPROVAL**  
ALL REQUIREMENTS OF THE BRYANT SUBDIVISION RULES AND REGULATIONS RELATIVE TO THE PREPARATION AND SUBMITTAL TO A FINAL PLAT HAVE BEEN FULFILLED, APPROVAL OF THIS PLAT IS HEREBY GRANTED, SUBJECT TO FURTHER PROVISIONS OF SAID RULES AND REGULATIONS.

**GENERAL NOTES**  
OWNER OF RECORD: AF PARTNERS LLC, 1500 Christy Lane, Alexander, AR, 72002

- BASIS OF BEARING FOR THIS SURVEY IS BASED ON ARKANSAS STATE PLANE GRID COORDINATES (NAD83 DATUM). MEASURED DISTANCES ARE GROUND DISTANCES. ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (NAVD88 DATUM).
- REFERENCES: A. INSTRUMENT NO. 2018-013165 FILED 07/13/2018  
B. INSTRUMENT NO. 2018-013162 FILED 07/13/2018  
C. INSTRUMENT NO. 2017-021243 FILED 11/08/2017  
D. INSTRUMENT NO. 2017-021242 FILED 11/08/2017  
E. SURVEY BY HOPE ENGINEERING FOR AF PARTNERS LLC DATED 06/21/2018.  
F. AMENDED FINAL PLAT VERNIA PARK SUBDIVISION.

**CERTIFICATION**  
I HEREBY CERTIFY THAT THE ABOVE PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY SUPERVISION ON THIS DAY AND THAT ALL CORNERS ARE SET AS SHOWN. NO INDEPENDENT SEARCH FOR EASEMENTS, COVENANTS, ENCUMBRANCES, OR ANY OTHER FACTS WHICH AN ACCURATE TITLE SEARCH MAY DISCLOSE WAS PERFORMED.

Zane Robbins, AR PLS #1853

REVISIONS	DATE

LOT F-1, A REPLAT OF LOT "F" VERNIA PARK SUBDIVISION PHASE 1, AN ADDITION TO THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS

REPLAT

ROBBINS PROFESSIONAL LAND SERVICES, INC. (CORP. LICENSED)  
SURVEYING | GIS | CONSTRUCTION STAKING

903.888.2919 | 1480 EAST SUBDIVISION DRIVE, SUITE 111, CLARK COUNTY, ARKANSAS 72022  
1480 EAST SUBDIVISION DRIVE, SUITE 111, CLARK COUNTY, ARKANSAS 72022

**DRAWN BY**  
ZR

**DESIGNED**

**CHECKED**  
ZR

**DATE**  
9-20-23

**SCALE**  
1" = 30'

**PROJECT NO.**  
2023225

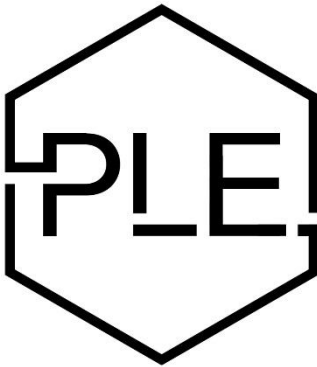
**SHEET NO.**

# SUMMERWOOD SPORTS GYM #3

## DRAINAGE REPORT

**LOCATED IN  
BRYANT, ARKANSAS**

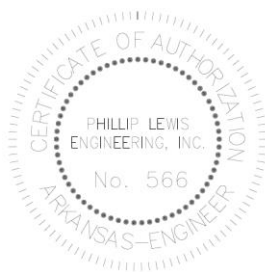
**Prepared by:**



**PHILLIP LEWIS ENGINEERING**

Structural + Civil Consultants

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





## **PROJECT LOCATION MAP**



Vacinity Map

## **PROJECT SUMMARY**

The proposed project is for the construction of the third gymnasium of the Summerwood Sports Complex located along Bryant Parkway and Hwy 5.

The proposed development is for a 30,000 sq. ft. building and parking lot that will utilize curb/gutter and concrete/asphalt to direct stormwater to the designated catch basins. The existing detention basin that was constructed for the first two gymnasiums will be abandoned to construct the new proposed gymnasium. A regional detention basin will be installed in the northwest corner of the remaining parcel to serve the entirety of the complex property.

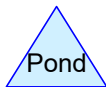
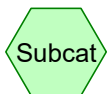
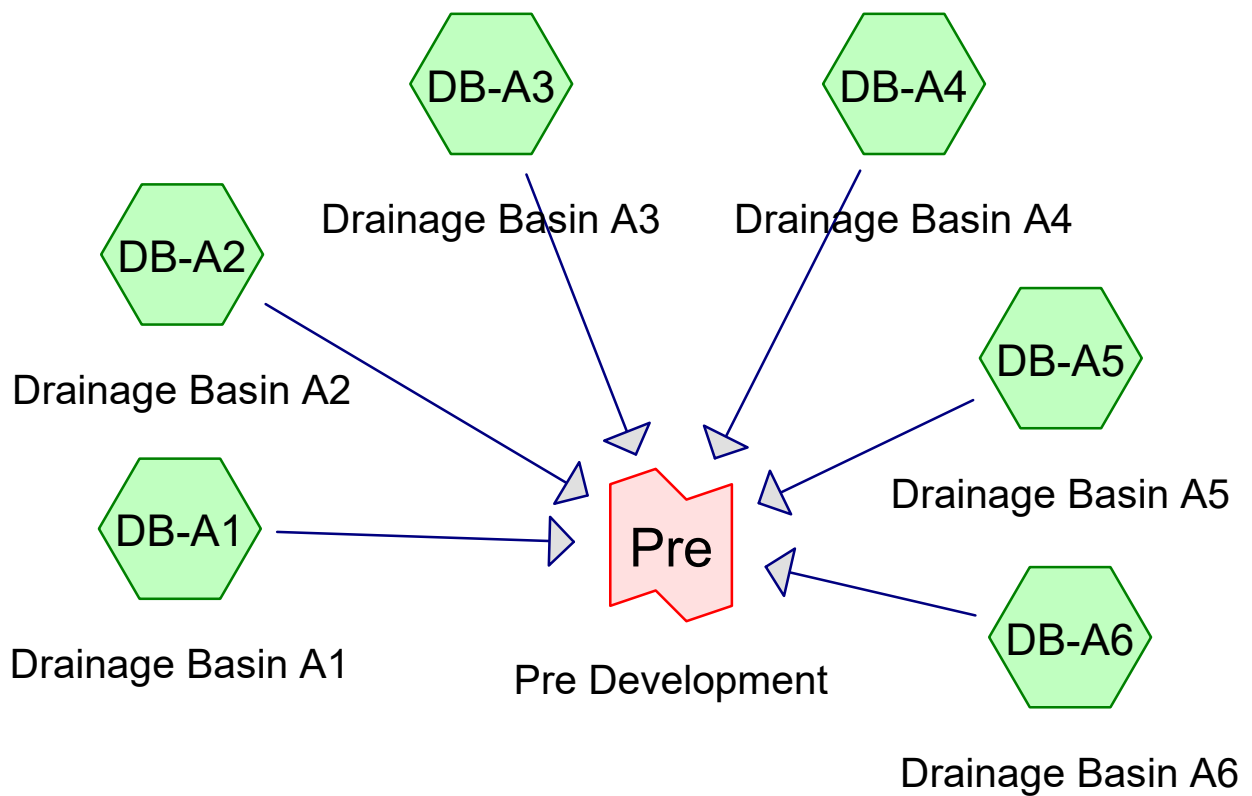
The existing storm sewer network will be interrupted with new storm sewer and routed to the new detention basin. This regional detention basin is designed to allow the future to be developed at a rate of 80% impervious.

A stormwater analysis was ran on the development using HydroCAD software. Stormwater calculations were setup and run for the 2, 5, 10, 25, 50, and 100-year storm event using the rational method.

The final release rate of the detention pond is controlled by a 6" orifice cast into a concrete outlet structure, including an open top that allows flow to increase past the 2' ponding depth in the pond. Ponding past the 2' depth is then controlled by a single 24" rcp releasing at the east adjacent property line.

Post-development runoff rates were held to below pre-development runoff rates.

The results of the analysis for both pre-development and post-development, including the change in runoff volume and runoff rate, are shown below within the attached report.



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 6.18 cfs @ 0.09 hrs, Volume= 5,559 cf, Depth= 0.65"

Routed to Link Pre : 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=15 min, Inten=3.54 in/hr

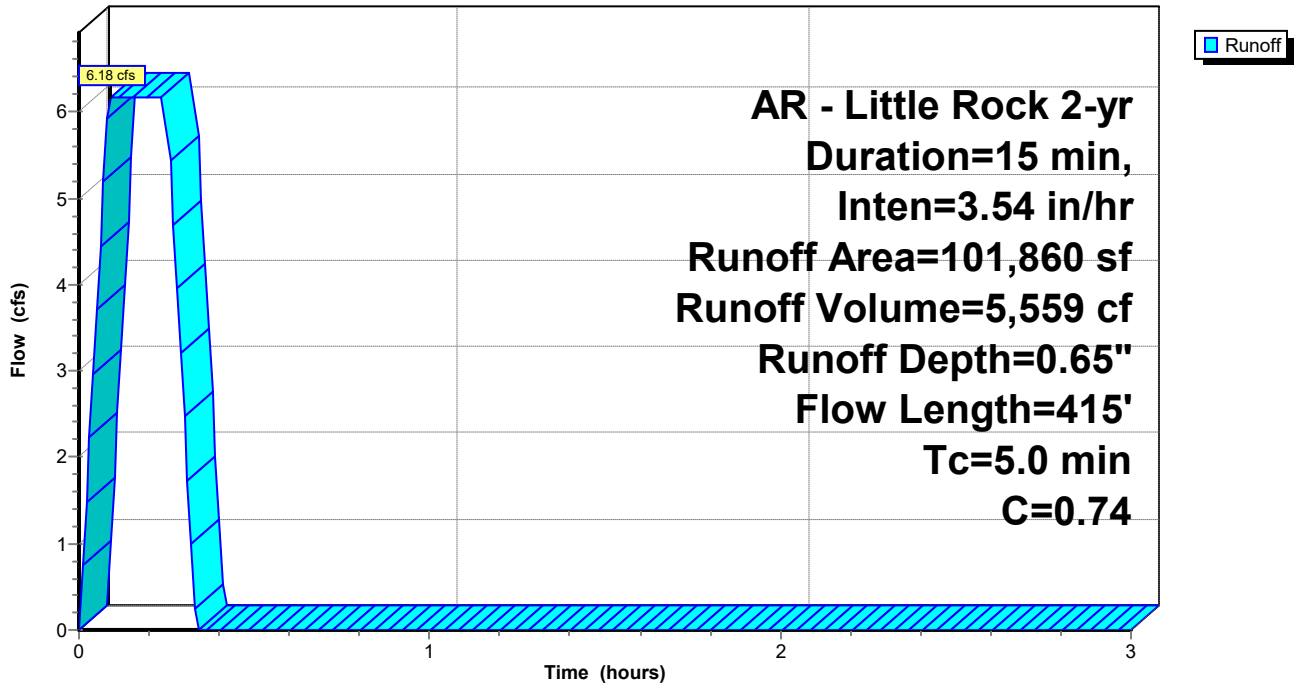
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A2: Drainage Basin A2**

Runoff = 10.17 cfs @ 0.09 hrs, Volume= 9,157 cf, Depth= 0.65"

Routed to Link Pre : 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=15 min, Inten=3.54 in/hr

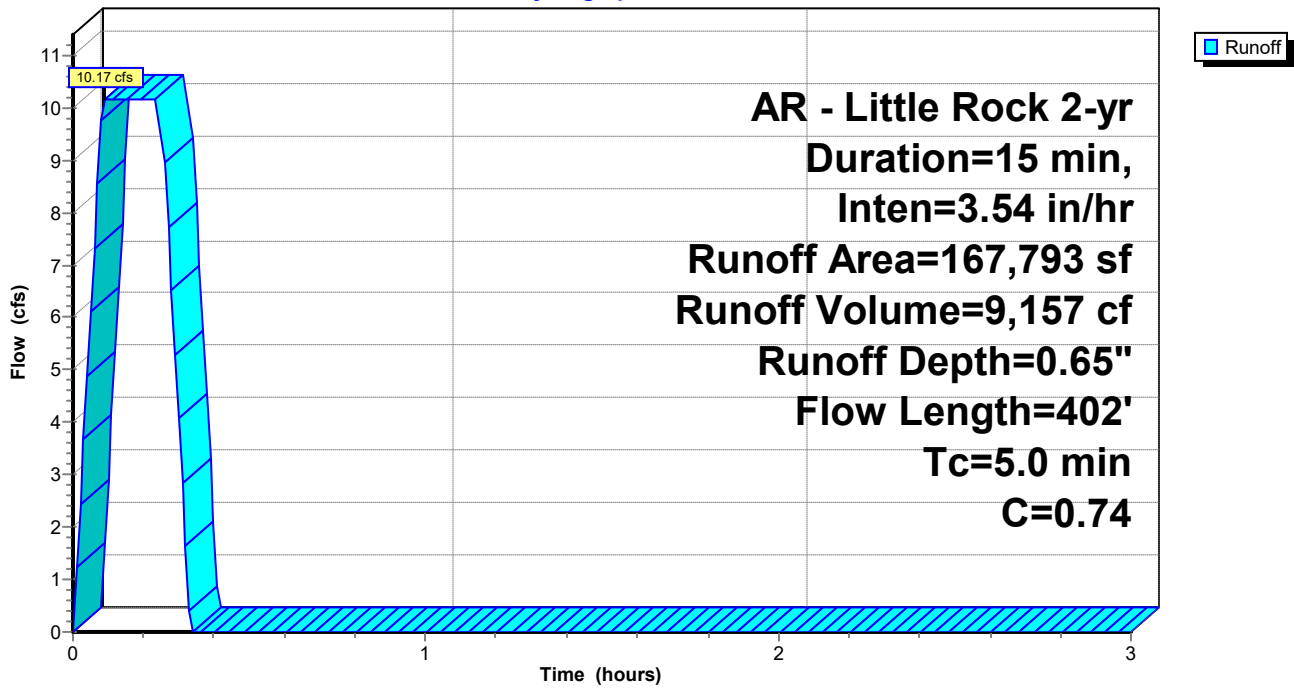
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment DB-A2: Drainage Basin A2**

Hydrograph





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A3: Drainage Basin A3**

Runoff = 16.84 cfs @ 0.25 hrs, Volume= 15,154 cf, Depth= 0.51"

Routed to Link Pre : Pre Development

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

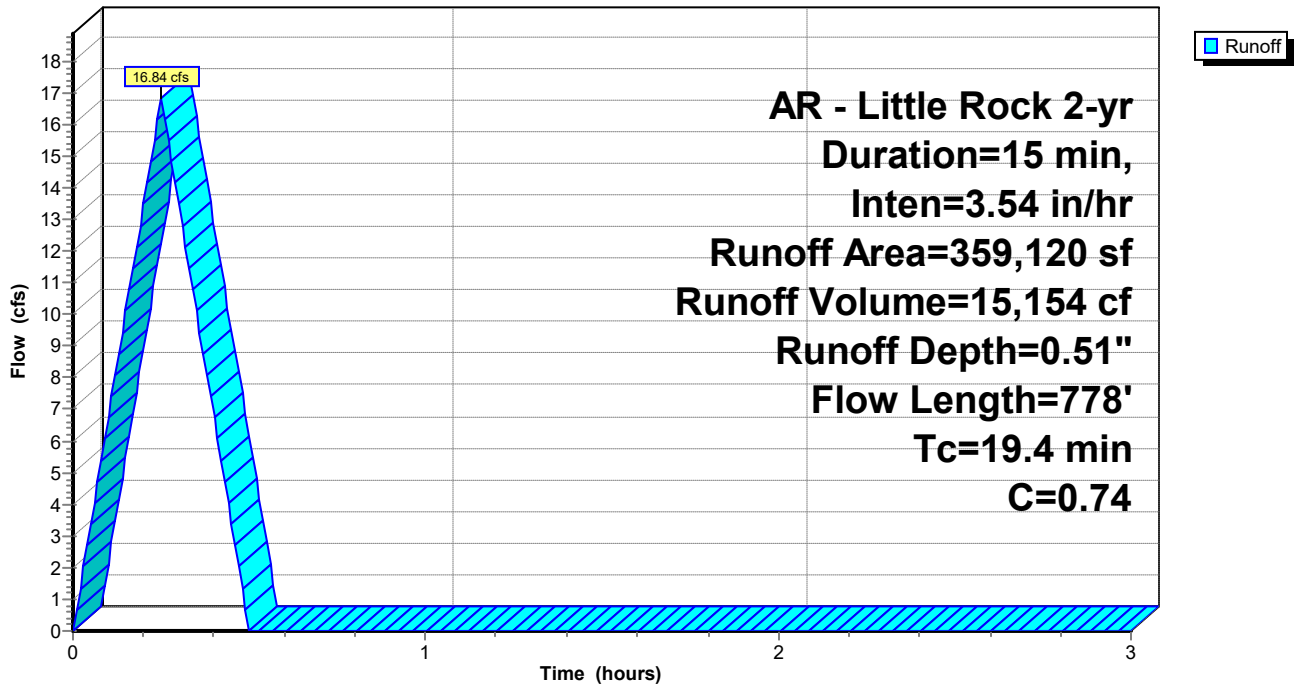
AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

**Subcatchment DB-A3: Drainage Basin A3**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 2.43 cfs @ 0.19 hrs, Volume= 2,183 cf, Depth= 0.65"

Routed to Link Pre : 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=15 min, Inten=3.54 in/hr

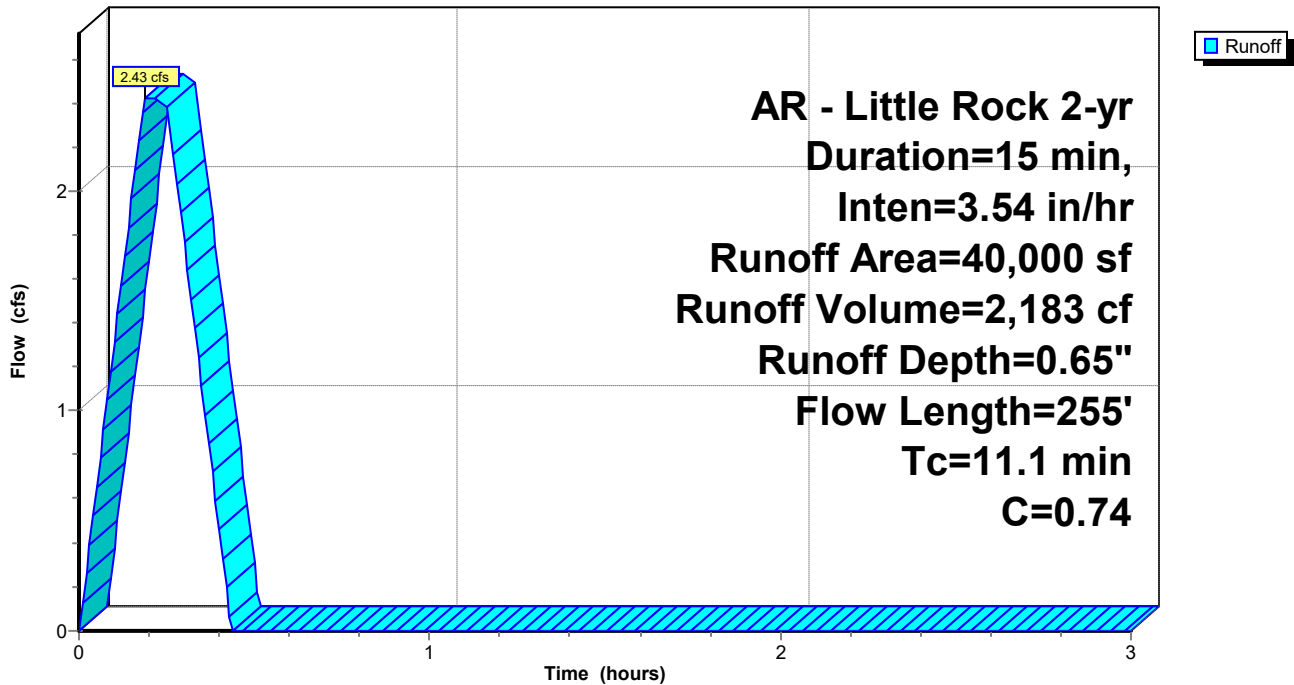
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 1.93 cfs @ 0.09 hrs, Volume= 1,733 cf, Depth= 0.65"

Routed to Link Pre : 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=15 min, Inten=3.54 in/hr

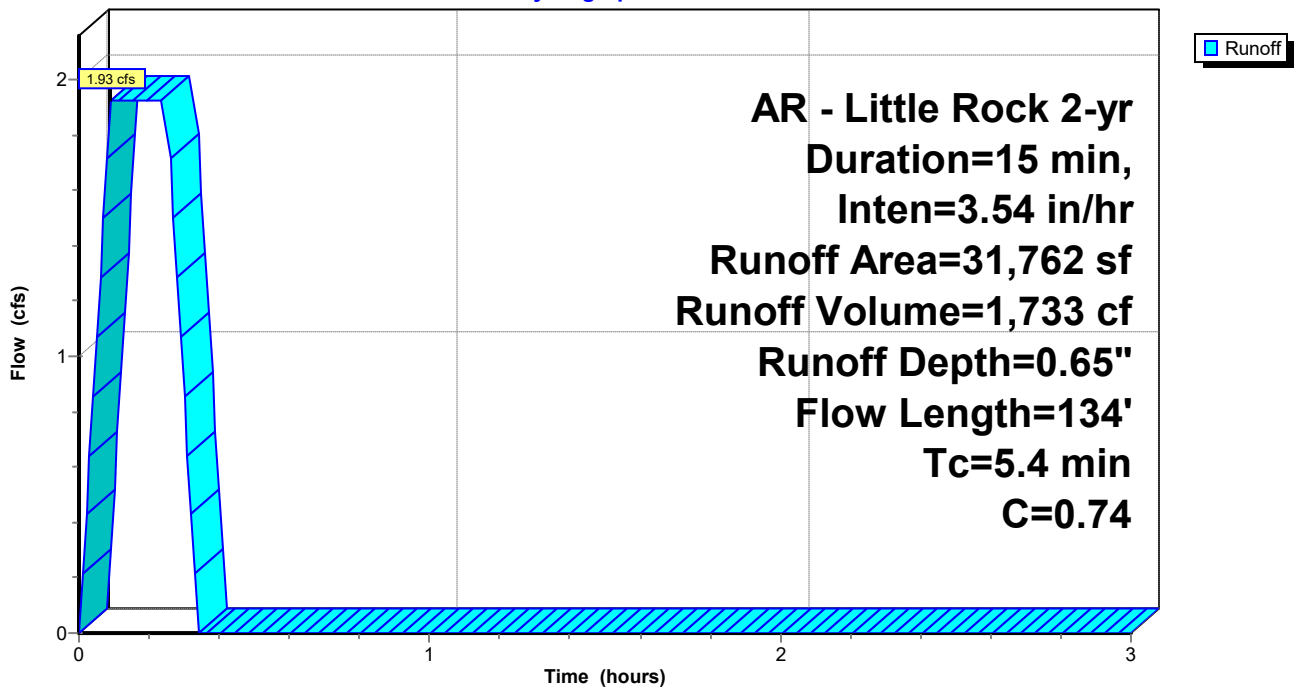
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A6: Drainage Basin A6**

Runoff = 6.30 cfs @ 0.25 hrs, Volume= 5,674 cf, Depth= 0.52"

Routed to Link Pre : 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=15 min, Inten=3.54 in/hr

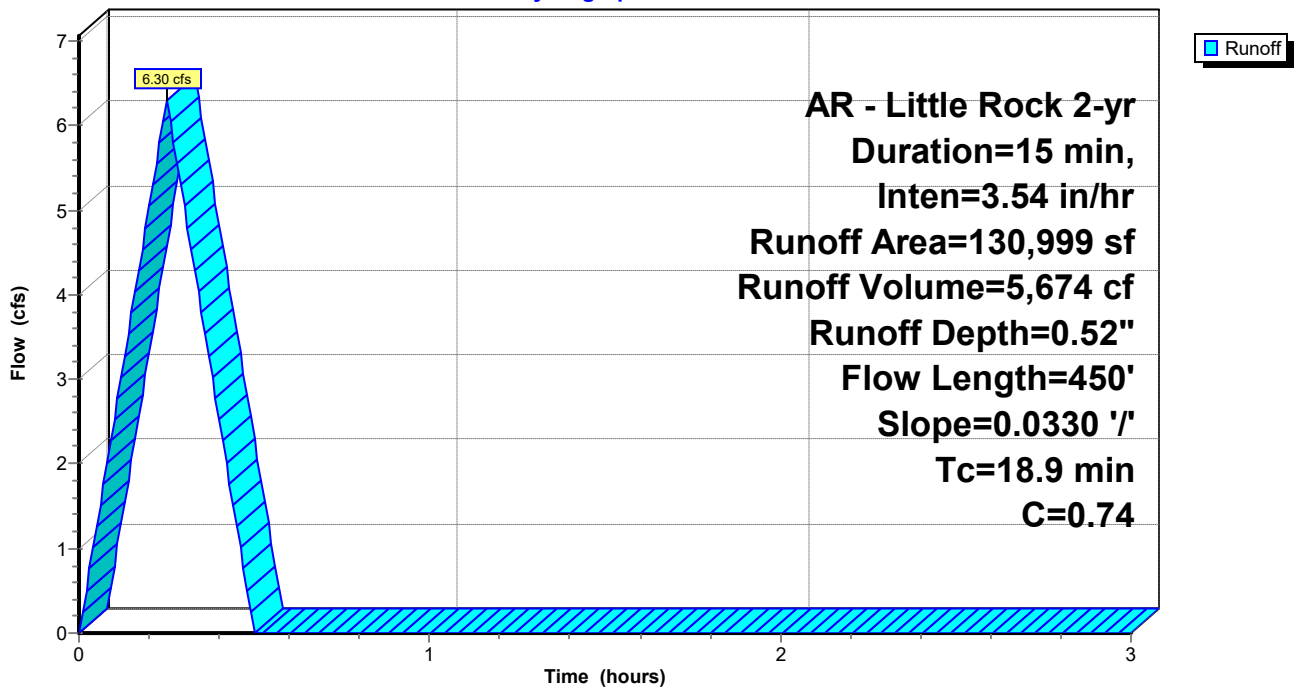
Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

**Subcatchment DB-A6: Drainage Basin A6**

Hydrograph





# Summerwood Gym 3

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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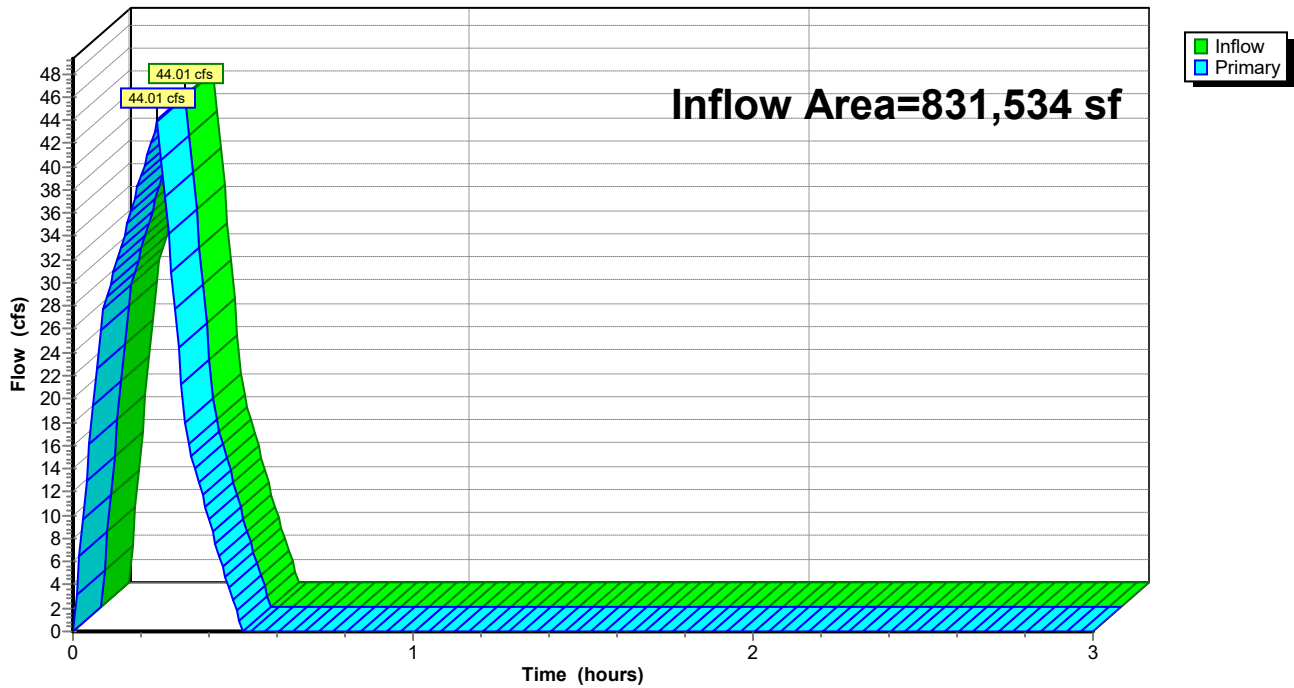
## Summary for Link Pre: Pre Development

Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 0.57" for 2-yr event  
Inflow = 44.01 cfs @ 0.25 hrs, Volume= 39,461 cf  
Primary = 44.01 cfs @ 0.25 hrs, Volume= 39,461 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 7.33 cfs @ 0.09 hrs, Volume= 6,595 cf, Depth= 0.78"

Routed to Link Pre : 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 5-yr Duration=15 min, Inten=4.20 in/hr

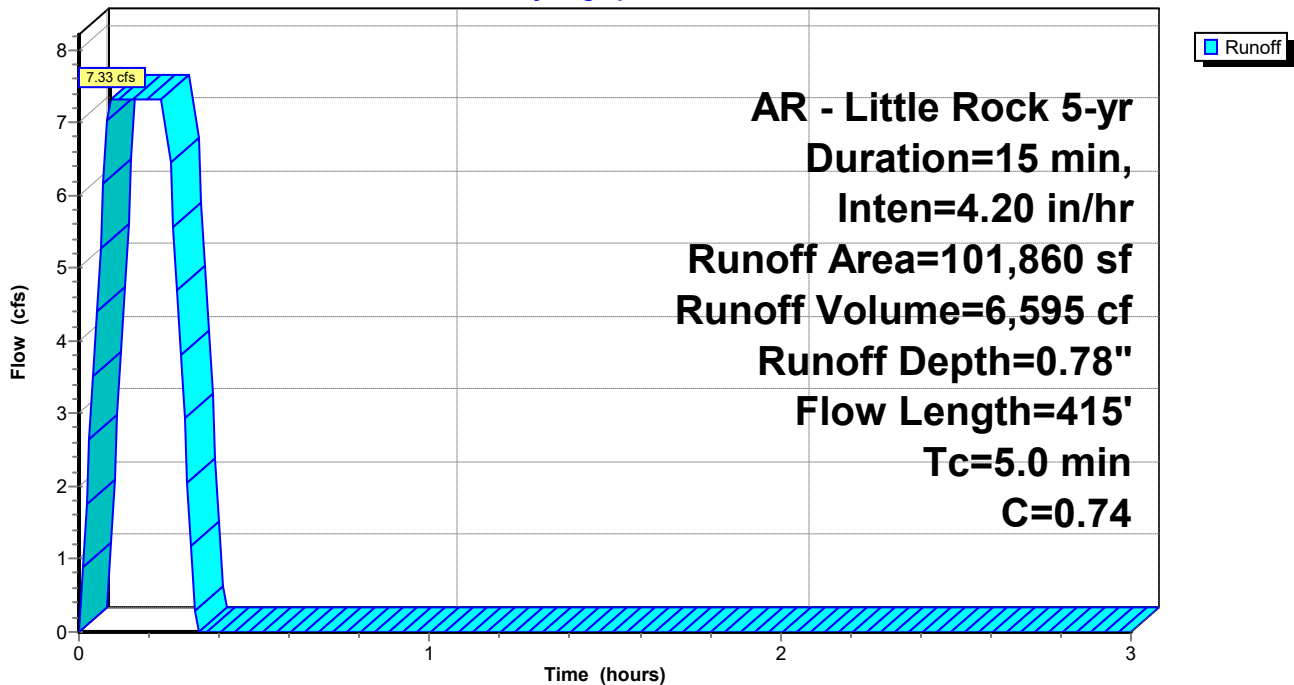
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

## Summary for Subcatchment DB-A2: Drainage Basin A2

Runoff = 12.07 cfs @ 0.09 hrs, Volume= 10,865 cf, Depth= 0.78"

Routed to Link Pre : 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 5-yr Duration=15 min, Inten=4.20 in/hr

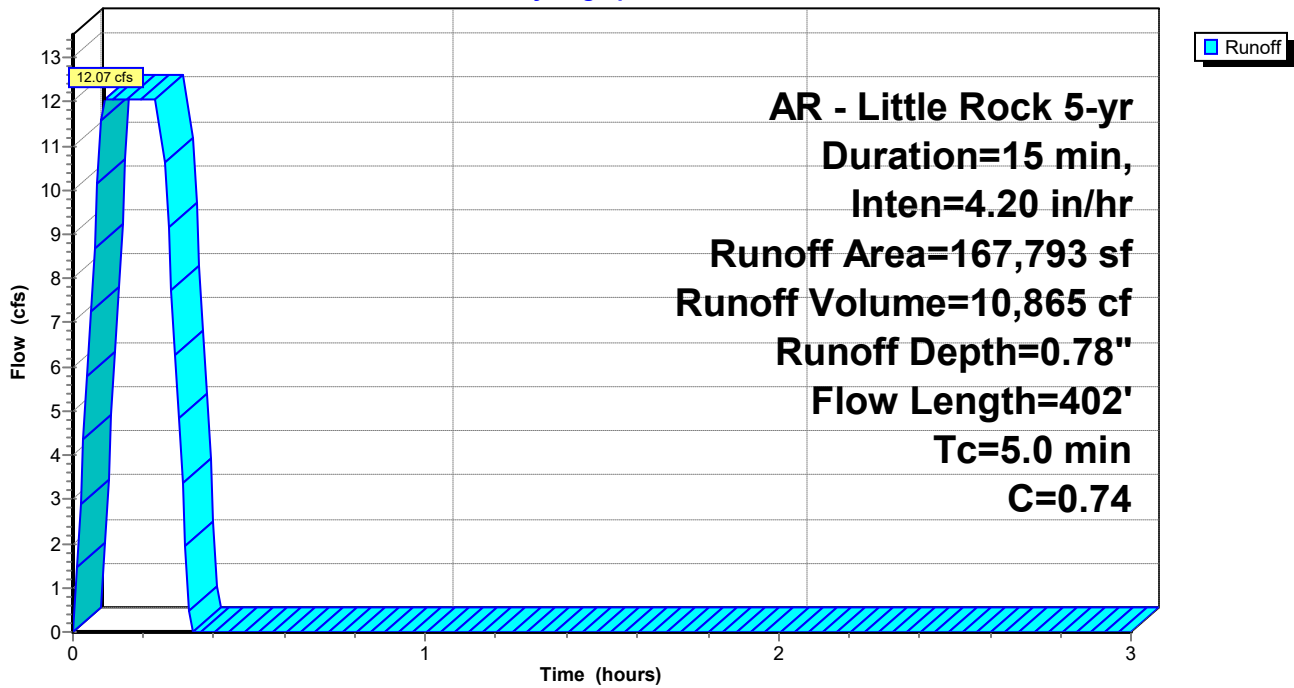
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

## Subcatchment DB-A2: Drainage Basin A2

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A3: Drainage Basin A3**

Runoff = 19.98 cfs @ 0.25 hrs, Volume= 17,979 cf, Depth= 0.60"

Routed to Link Pre : Pre Development

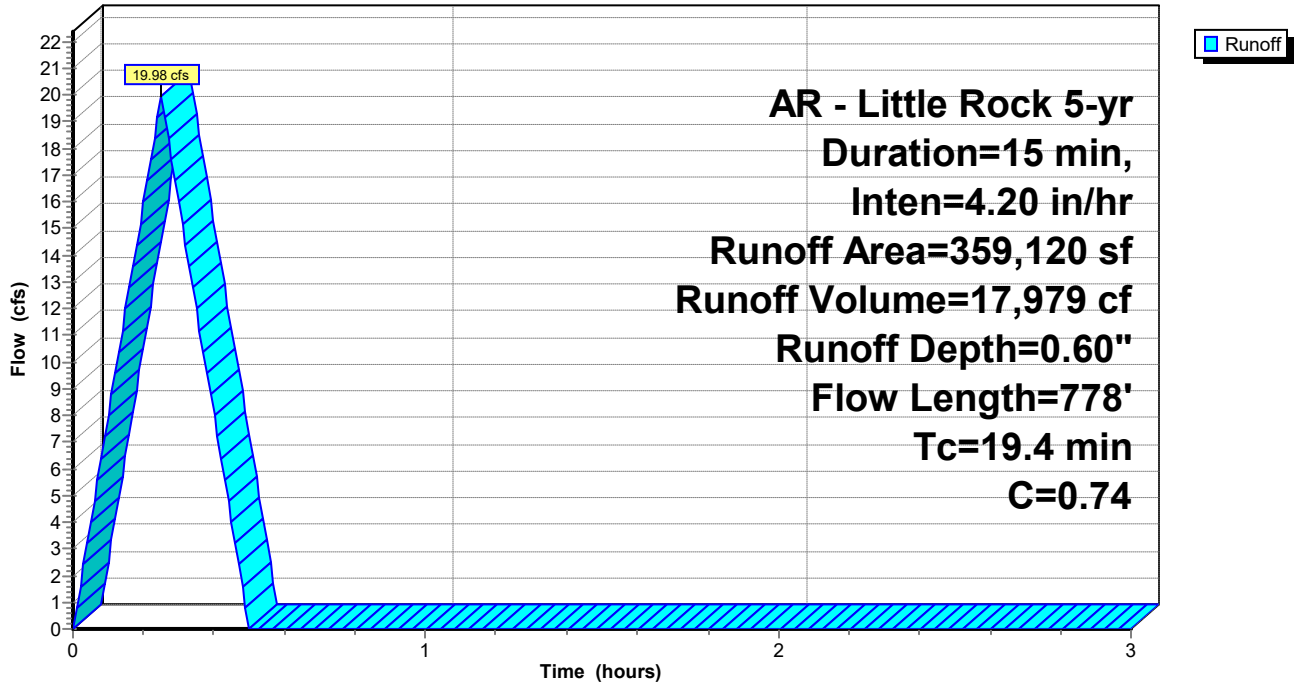
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

**Subcatchment DB-A3: Drainage Basin A3**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 2.88 cfs @ 0.19 hrs, Volume= 2,590 cf, Depth= 0.78"

Routed to Link Pre : 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 5-yr Duration=15 min, Inten=4.20 in/hr

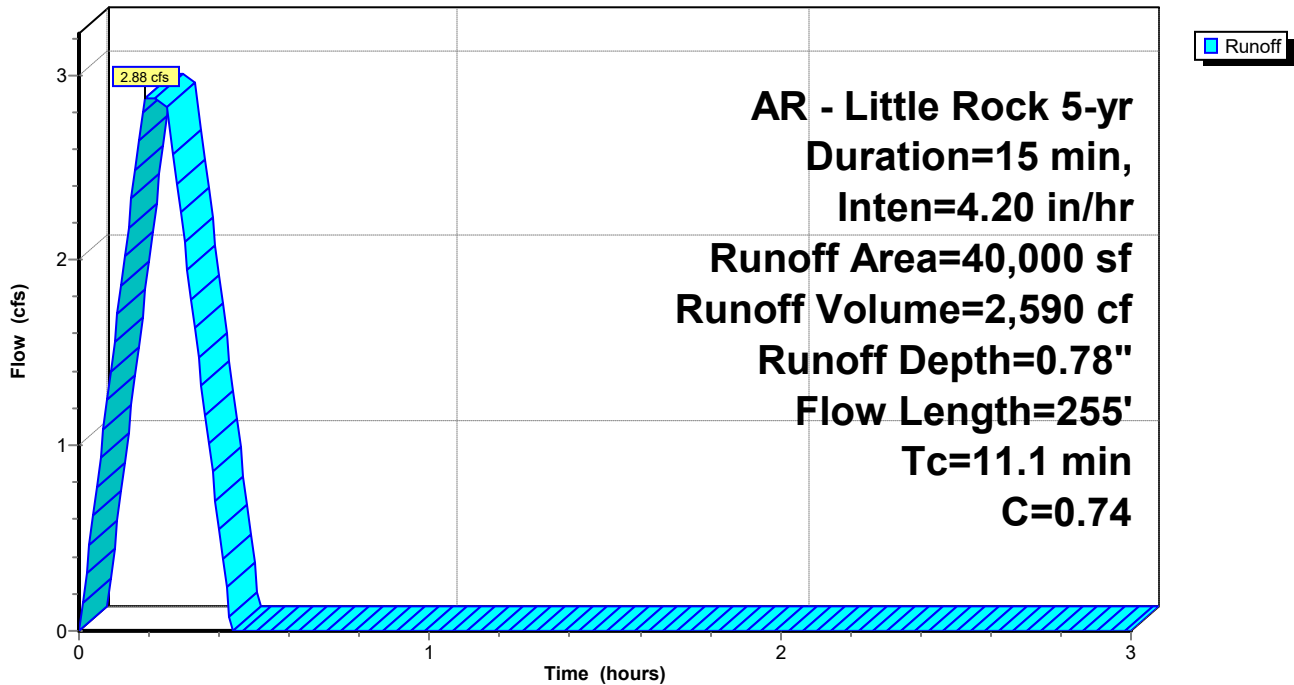
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 2.29 cfs @ 0.09 hrs, Volume= 2,057 cf, Depth= 0.78"

Routed to Link Pre : 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 5-yr Duration=15 min, Inten=4.20 in/hr

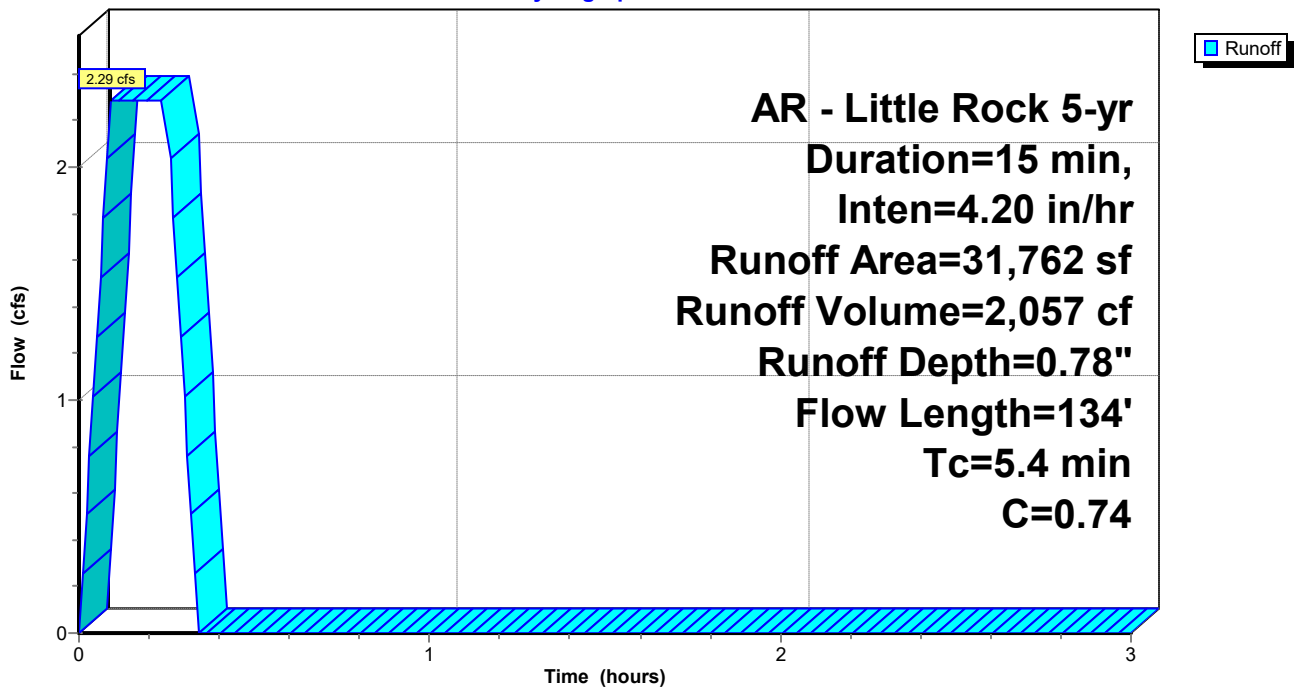
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph





**Summerwood Gym 3**

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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**Summary for Subcatchment DB-A6: Drainage Basin A6**

Runoff = 7.48 cfs @ 0.25 hrs, Volume= 6,732 cf, Depth= 0.62"

Routed to Link Pre : 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 5-yr Duration=15 min, Inten=4.20 in/hr

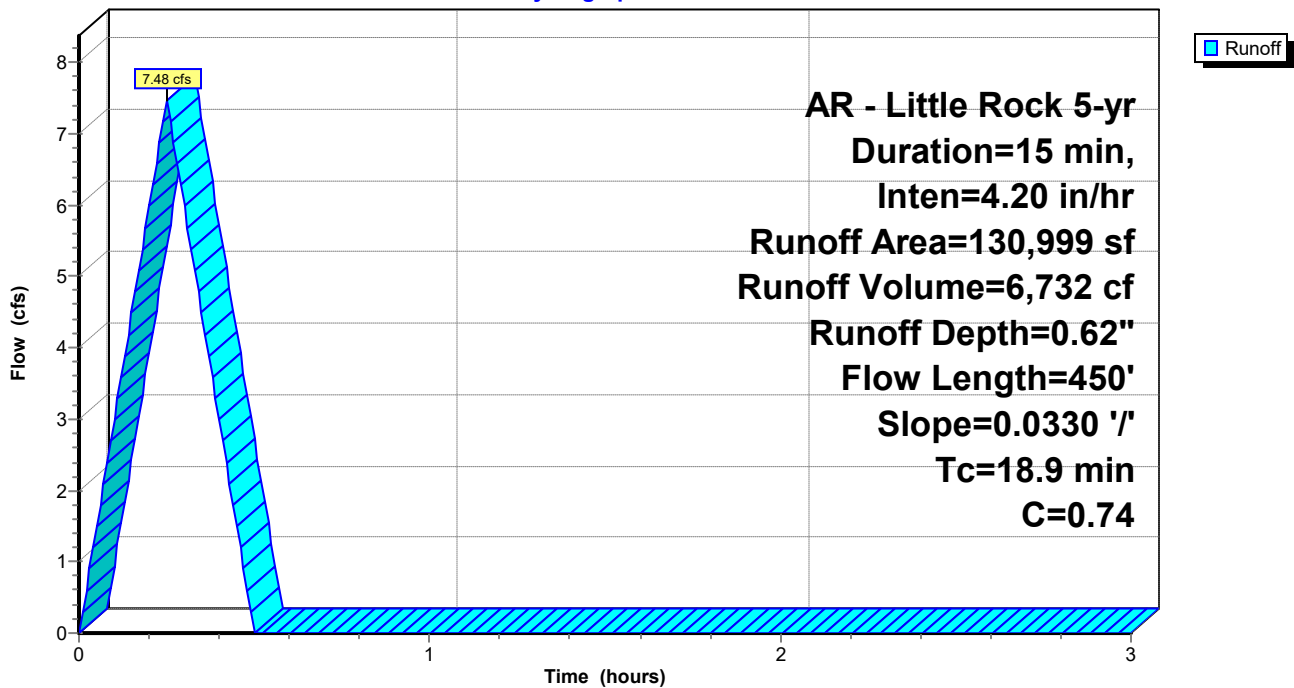
Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

**Subcatchment DB-A6: Drainage Basin A6**

Hydrograph



# Summerwood Gym 3

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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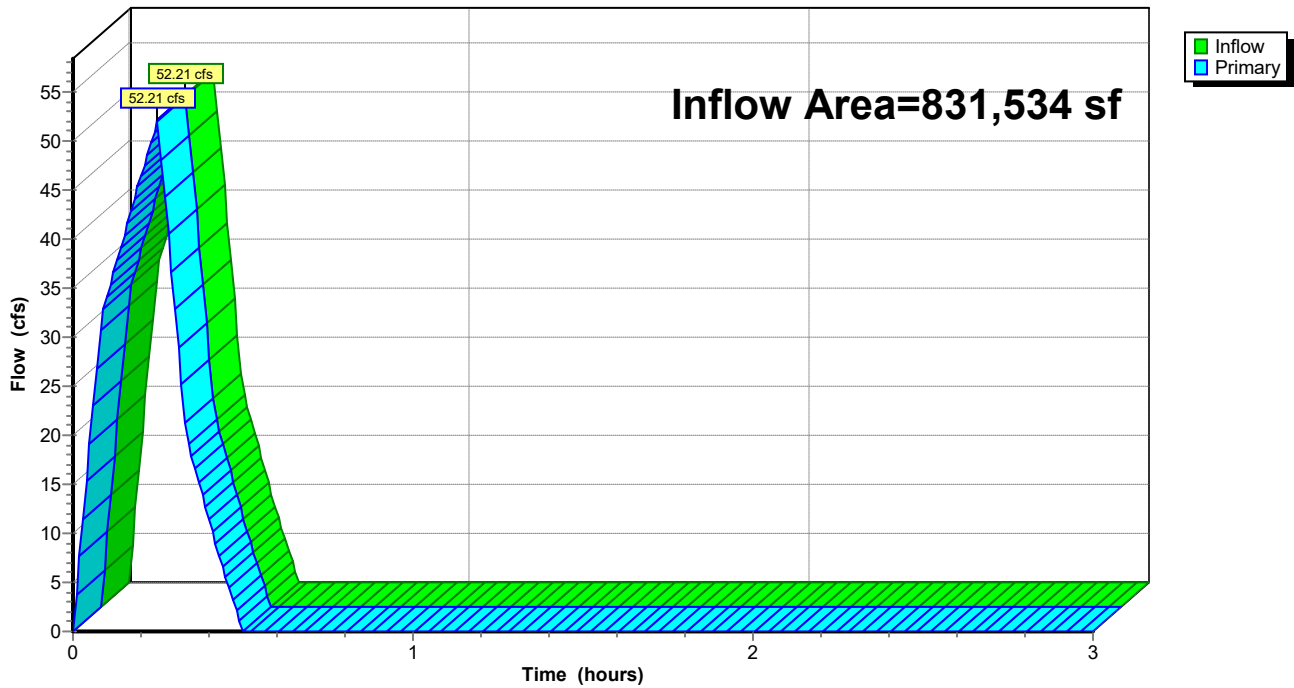
## Summary for Link Pre: Pre Development

Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 0.68" for 5-yr event  
Inflow = 52.21 cfs @ 0.25 hrs, Volume= 46,818 cf  
Primary = 52.21 cfs @ 0.25 hrs, Volume= 46,818 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 8.31 cfs @ 0.09 hrs, Volume= 7,475 cf, Depth= 0.88"

Routed to Link Pre : 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=15 min, Inten=4.76 in/hr

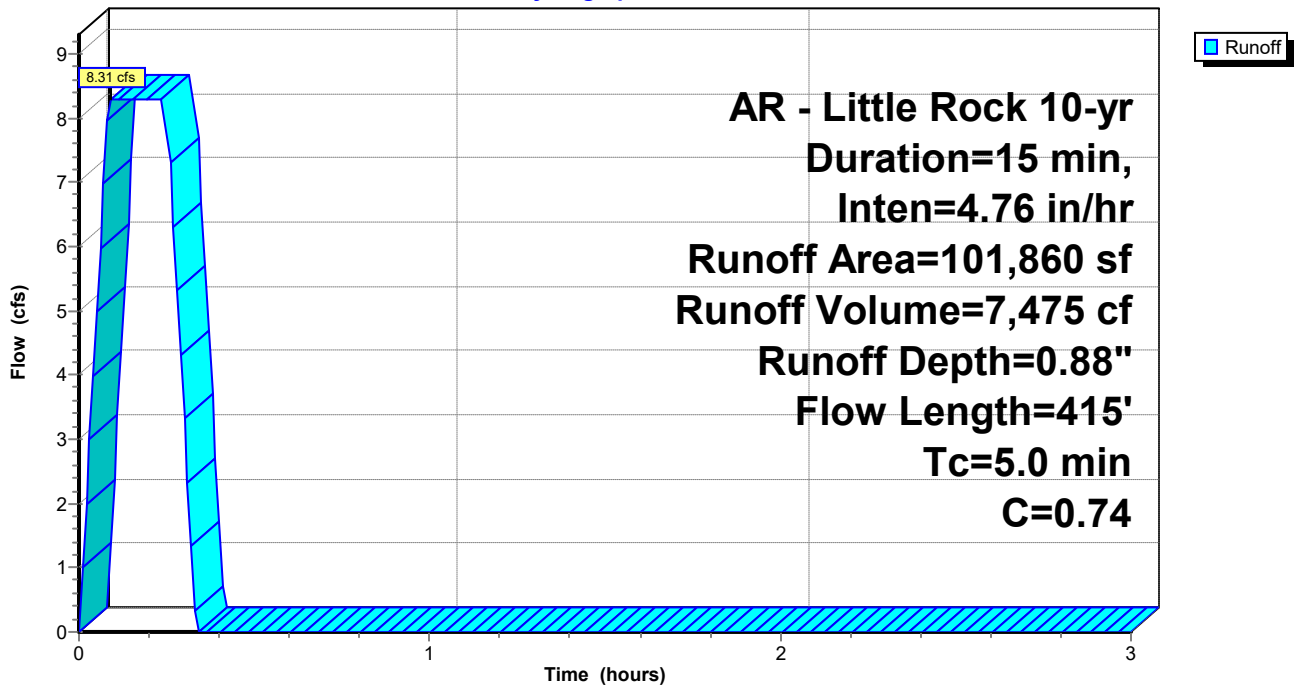
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph



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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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### Summary for Subcatchment DB-A2: Drainage Basin A2

Runoff = 13.68 cfs @ 0.09 hrs, Volume= 12,313 cf, Depth= 0.88"

Routed to Link Pre : 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=15 min, Inten=4.76 in/hr

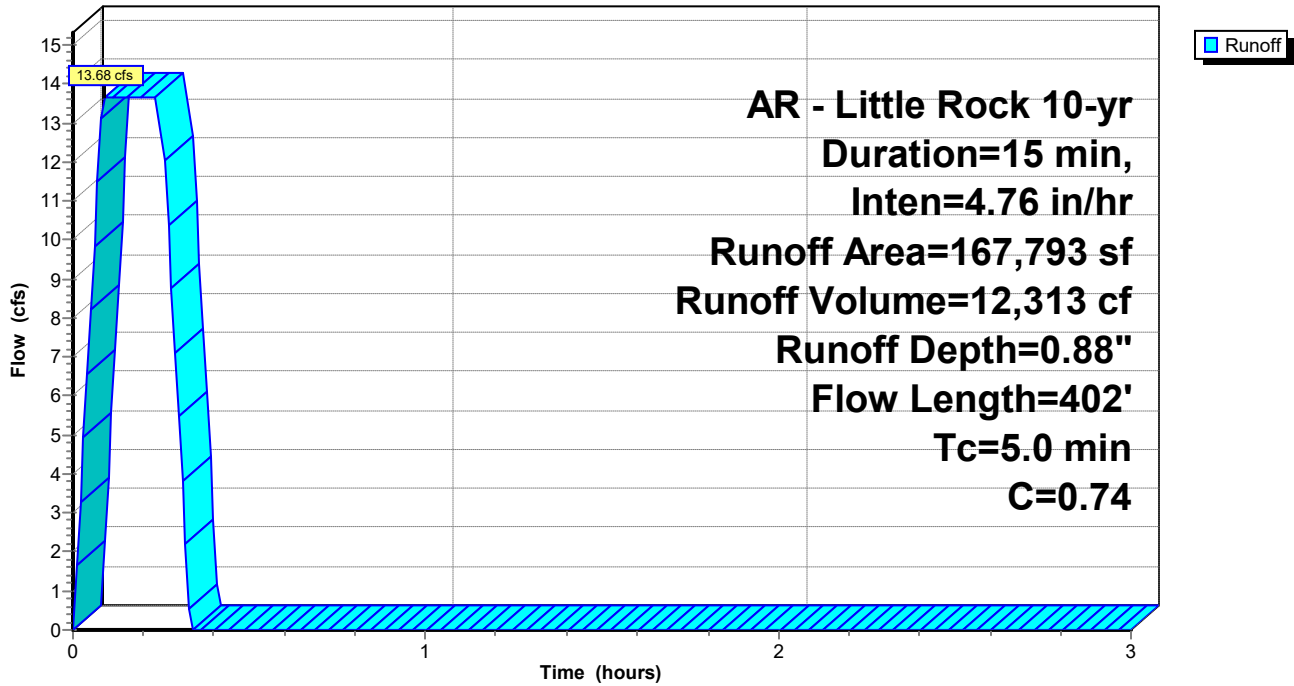
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A2: Drainage Basin A2

Hydrograph



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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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### Summary for Subcatchment DB-A3: Drainage Basin A3

Runoff = 22.64 cfs @ 0.25 hrs, Volume= 20,376 cf, Depth= 0.68"

Routed to Link Pre : Pre Development

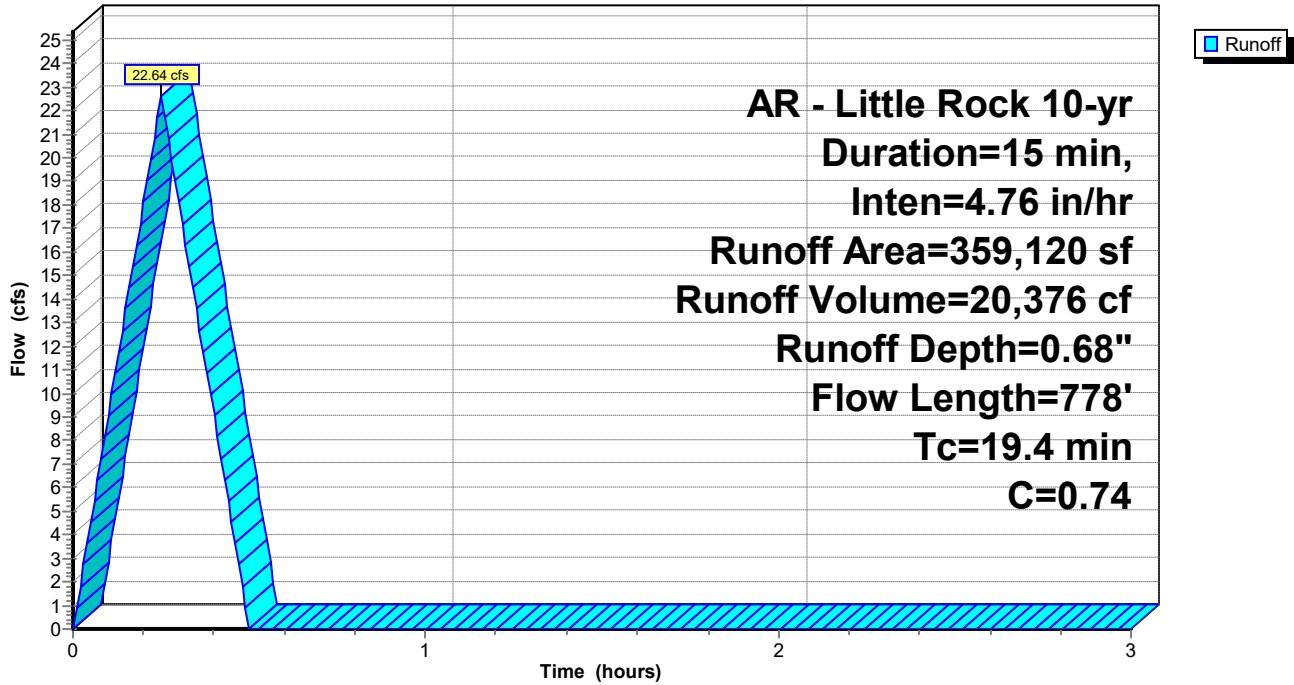
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

### Subcatchment DB-A3: Drainage Basin A3

Hydrograph



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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 3.26 cfs @ 0.19 hrs, Volume= 2,935 cf, Depth= 0.88"

Routed to Link Pre : 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=15 min, Inten=4.76 in/hr

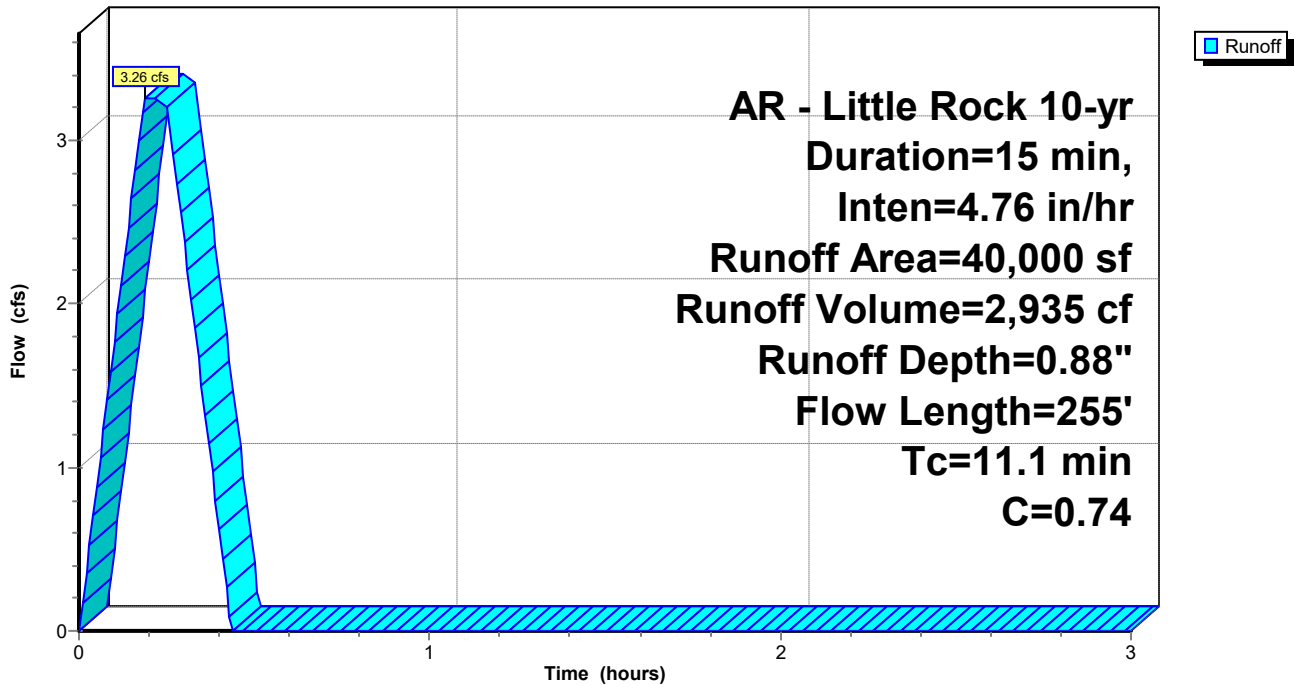
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph





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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 2.59 cfs @ 0.09 hrs, Volume= 2,331 cf, Depth= 0.88"

Routed to Link Pre : 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=15 min, Inten=4.76 in/hr

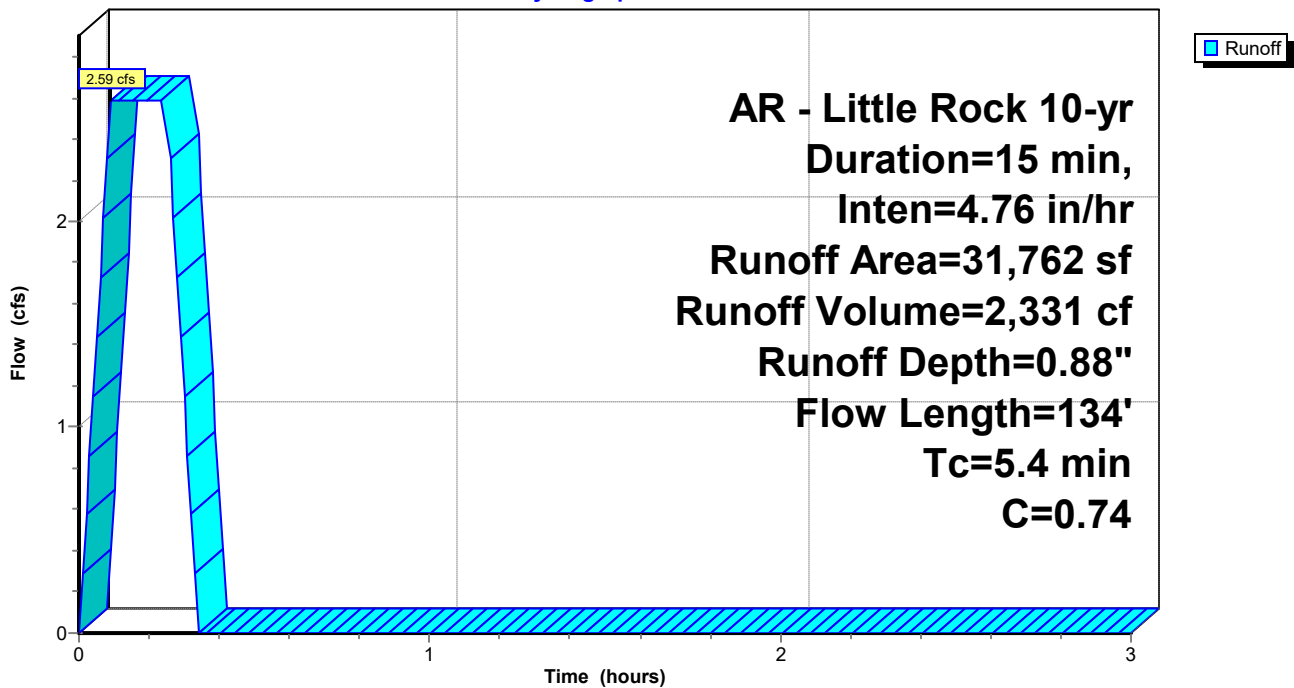
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph



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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-A6: Drainage Basin A6**

Runoff = 8.48 cfs @ 0.25 hrs, Volume= 7,629 cf, Depth= 0.70"

Routed to Link Pre : Pre Development

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

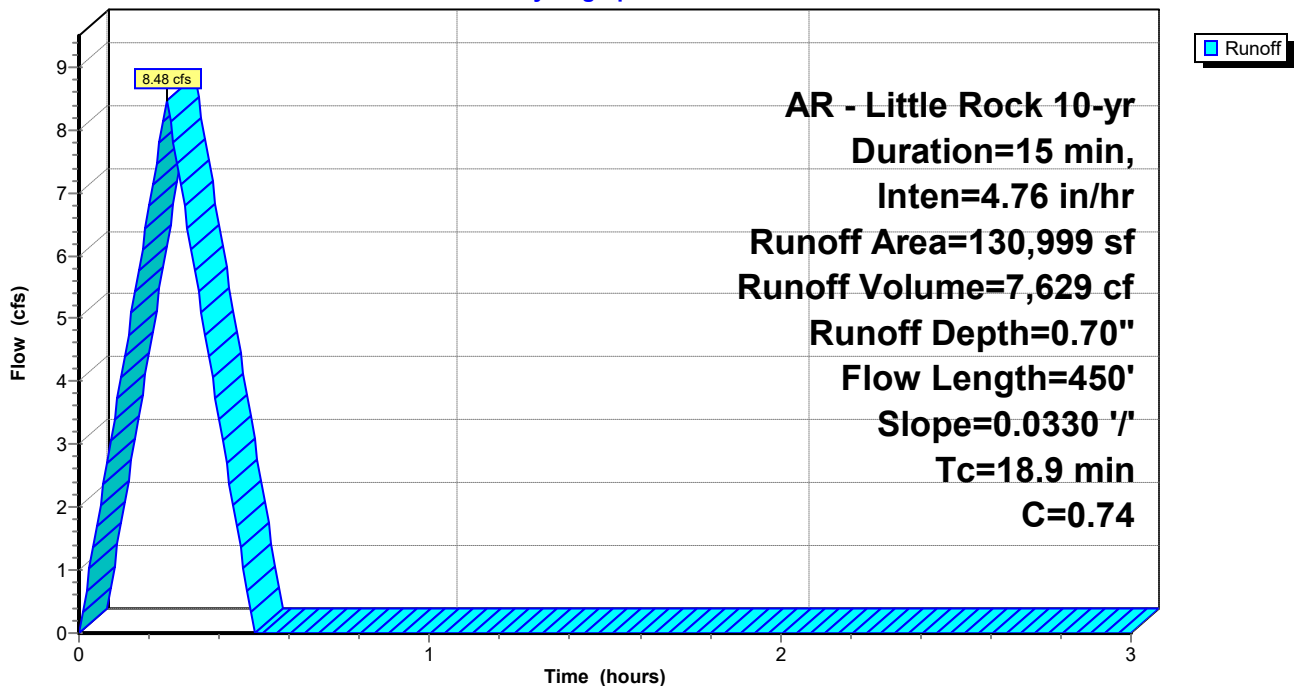
AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

**Subcatchment DB-A6: Drainage Basin A6**

Hydrograph



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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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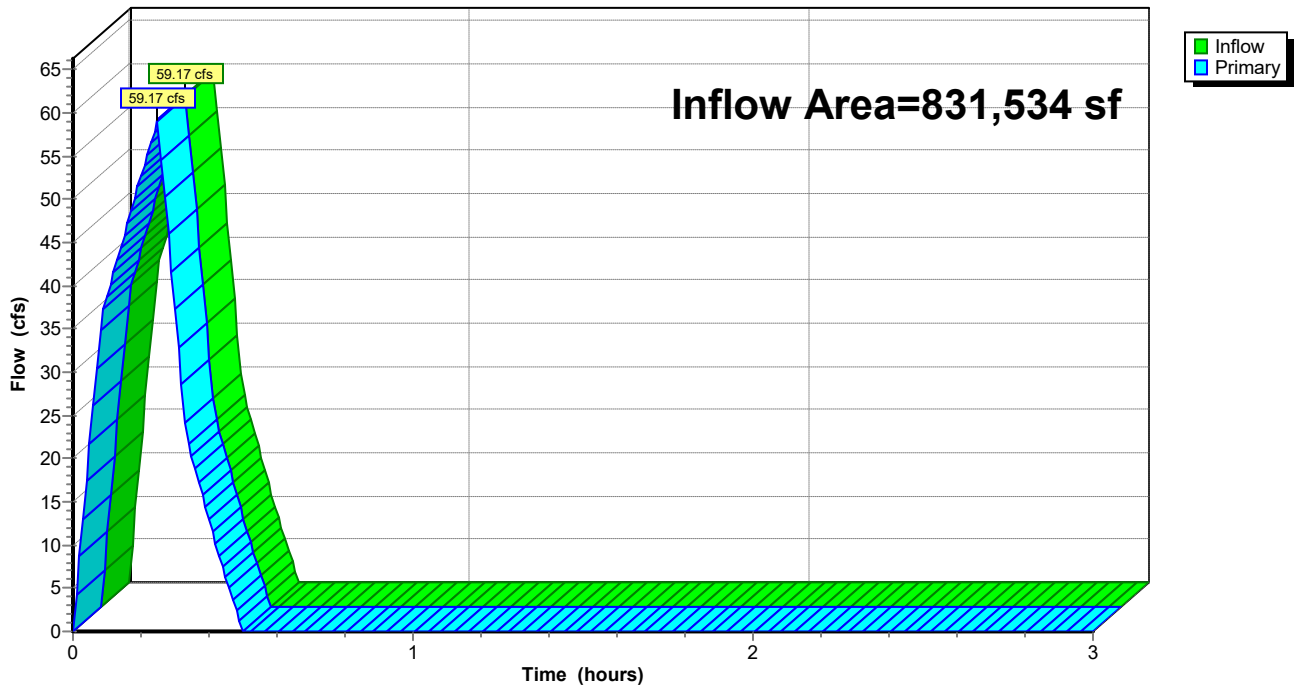
## Summary for Link Pre: Pre Development

Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 0.77" for 10-yr event  
Inflow = 59.17 cfs @ 0.25 hrs, Volume= 53,060 cf  
Primary = 59.17 cfs @ 0.25 hrs, Volume= 53,060 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 9.49 cfs @ 0.09 hrs, Volume= 8,543 cf, Depth= 1.01"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

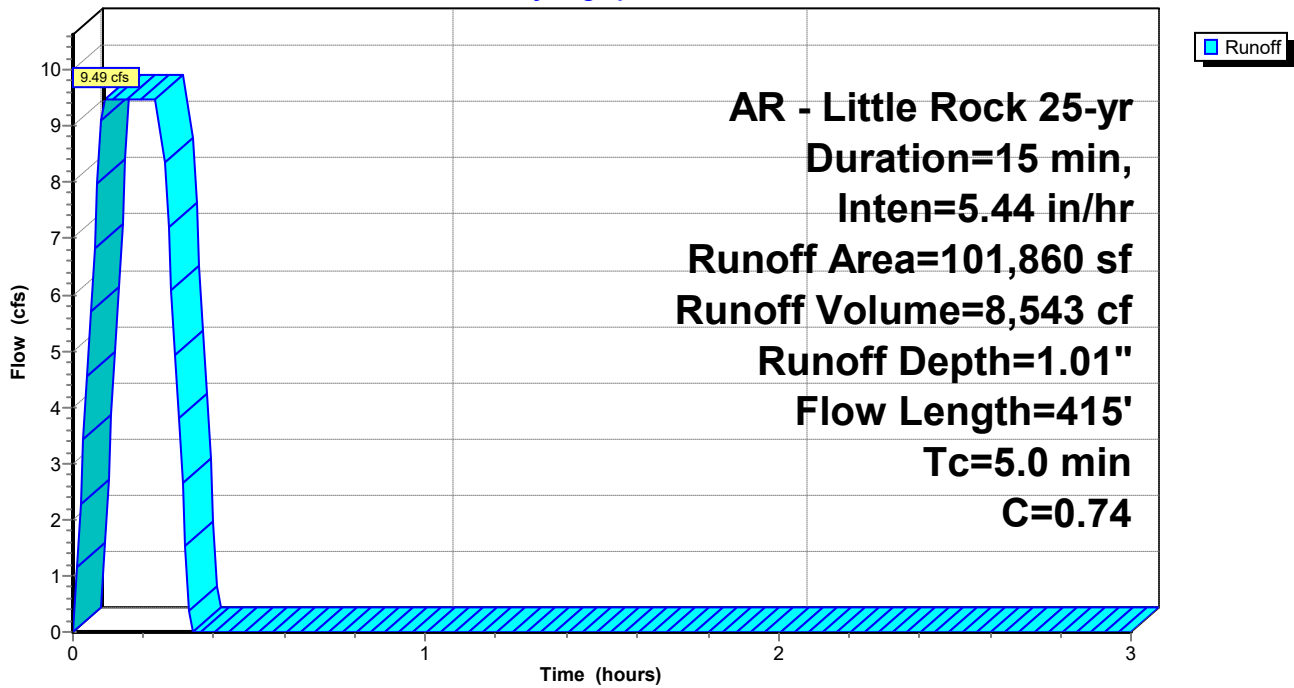
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph



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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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### Summary for Subcatchment DB-A2: Drainage Basin A2

Runoff = 15.64 cfs @ 0.09 hrs, Volume= 14,072 cf, Depth= 1.01"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

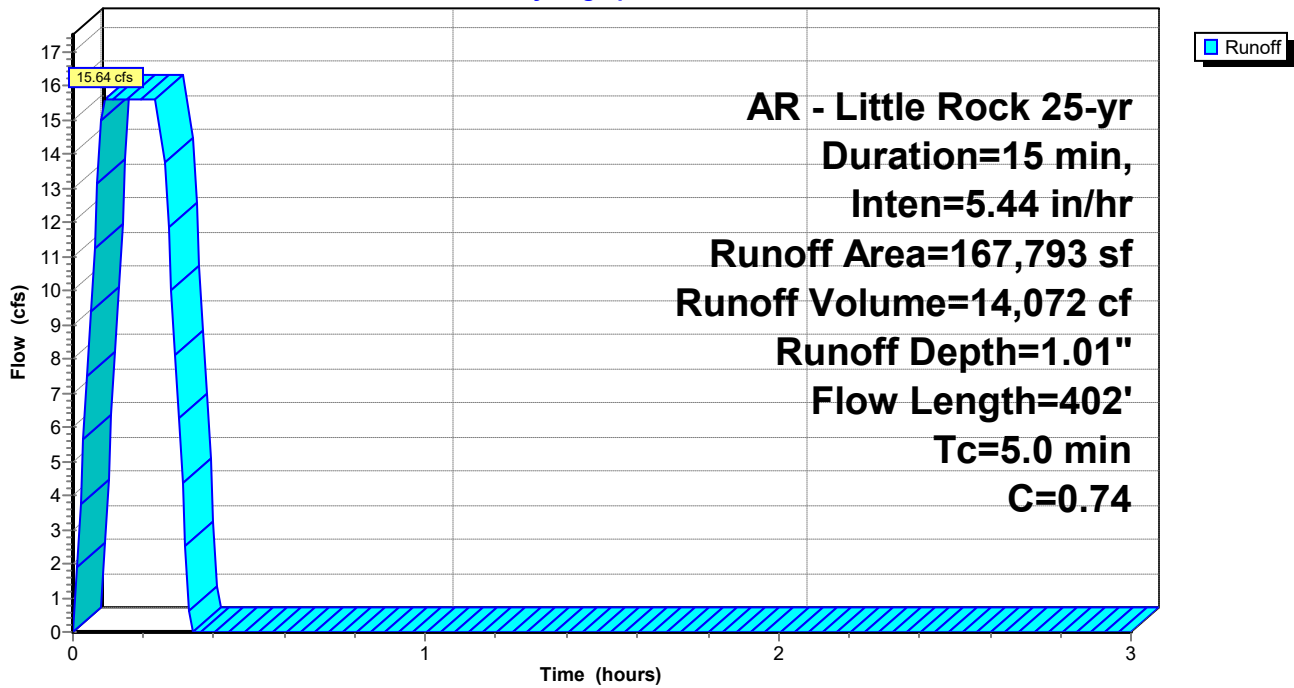
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A2: Drainage Basin A2

Hydrograph



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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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### Summary for Subcatchment DB-A3: Drainage Basin A3

Runoff = 25.87 cfs @ 0.25 hrs, Volume= 23,287 cf, Depth= 0.78"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

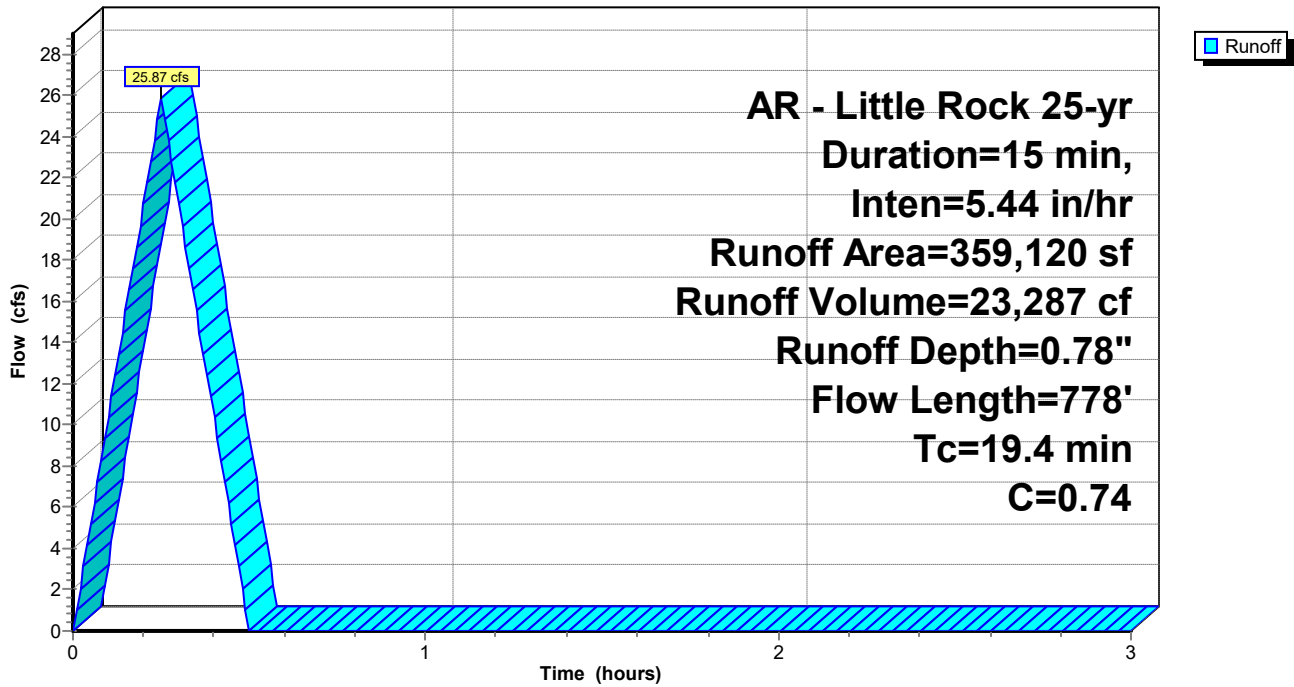
Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

### Subcatchment DB-A3: Drainage Basin A3

Hydrograph





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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 3.73 cfs @ 0.19 hrs, Volume= 3,355 cf, Depth= 1.01"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

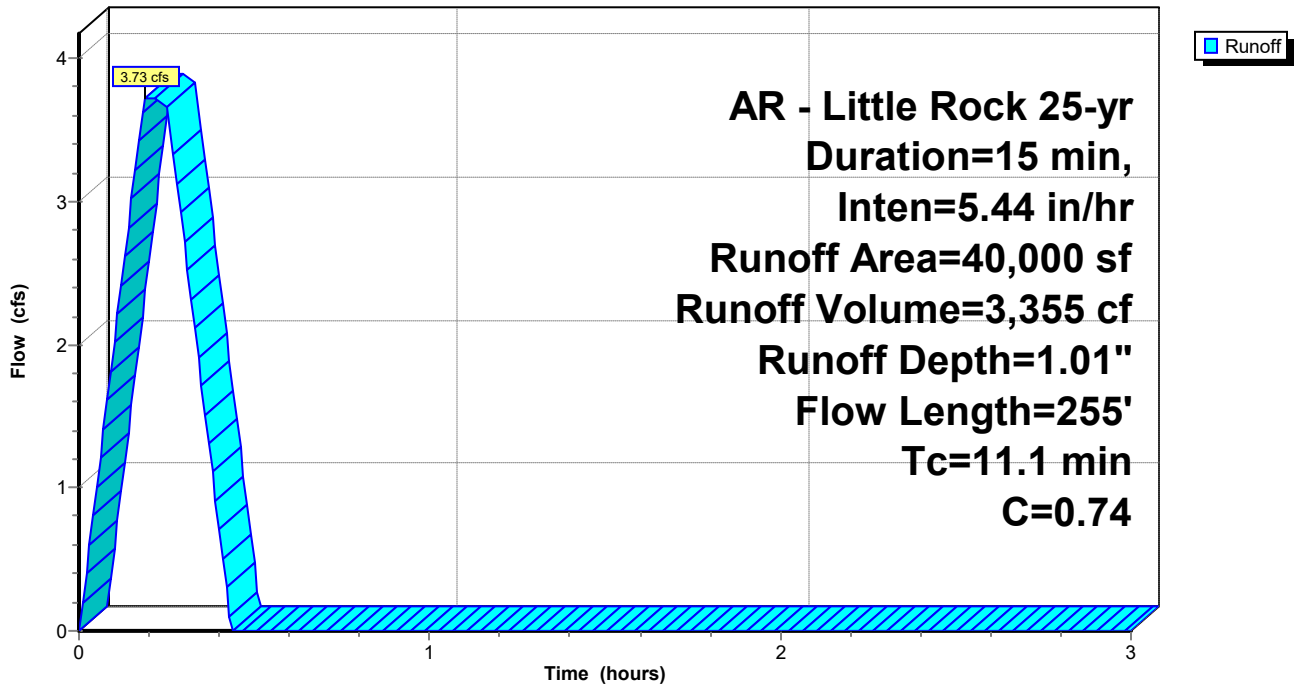
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph



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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 2.96 cfs @ 0.09 hrs, Volume= 2,664 cf, Depth= 1.01"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

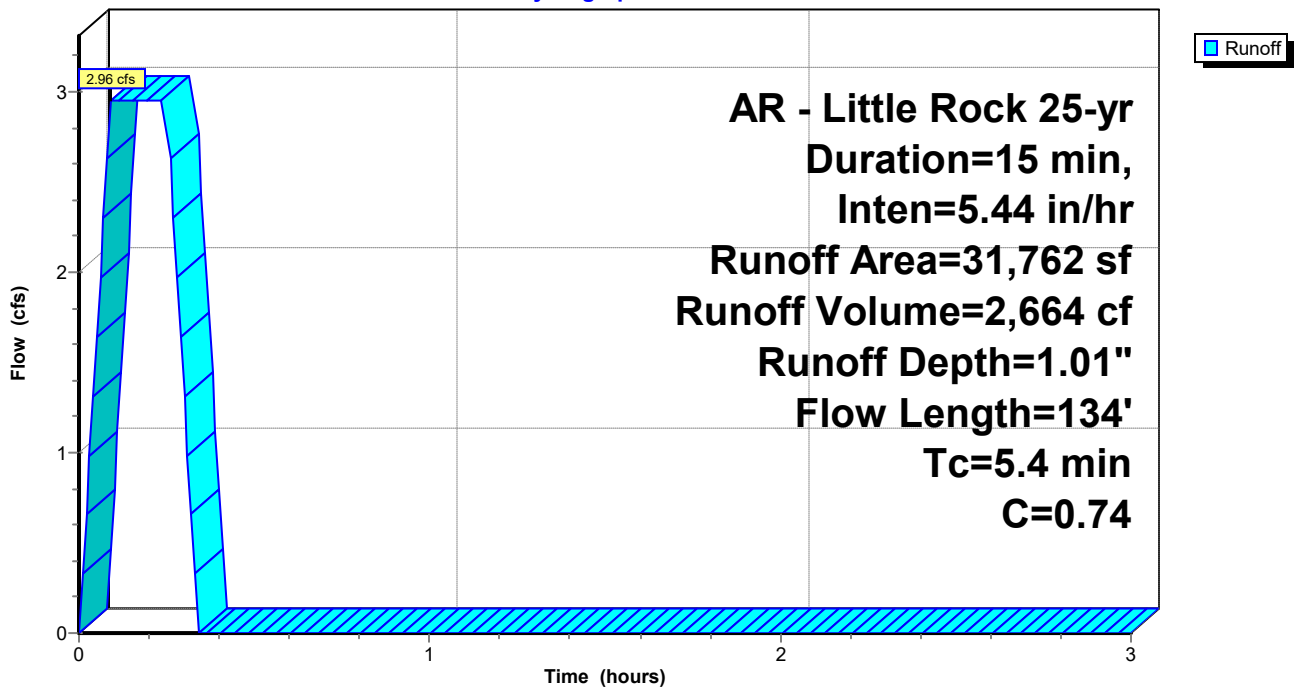
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph



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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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**Summary for Subcatchment DB-A6: Drainage Basin A6**

Runoff = 9.69 cfs @ 0.25 hrs, Volume= 8,719 cf, Depth= 0.80"

Routed to Link Pre : 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=15 min, Inten=5.44 in/hr

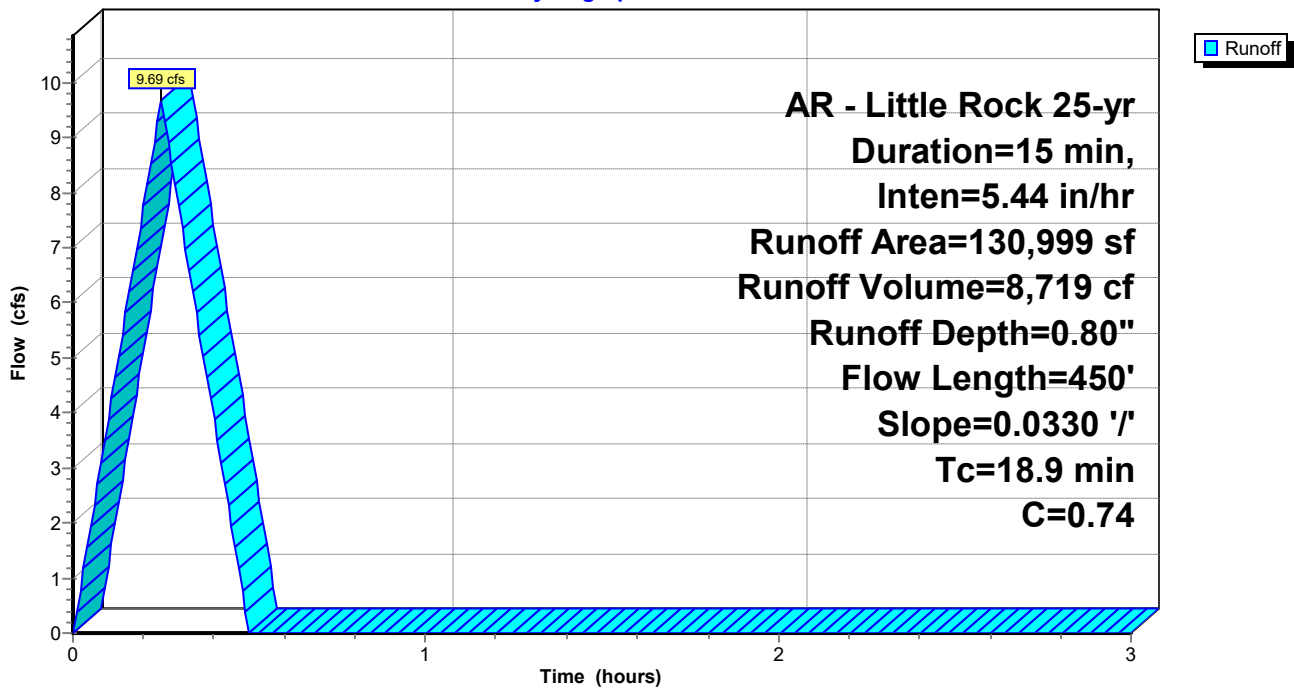
Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

**Subcatchment DB-A6: Drainage Basin A6**

Hydrograph



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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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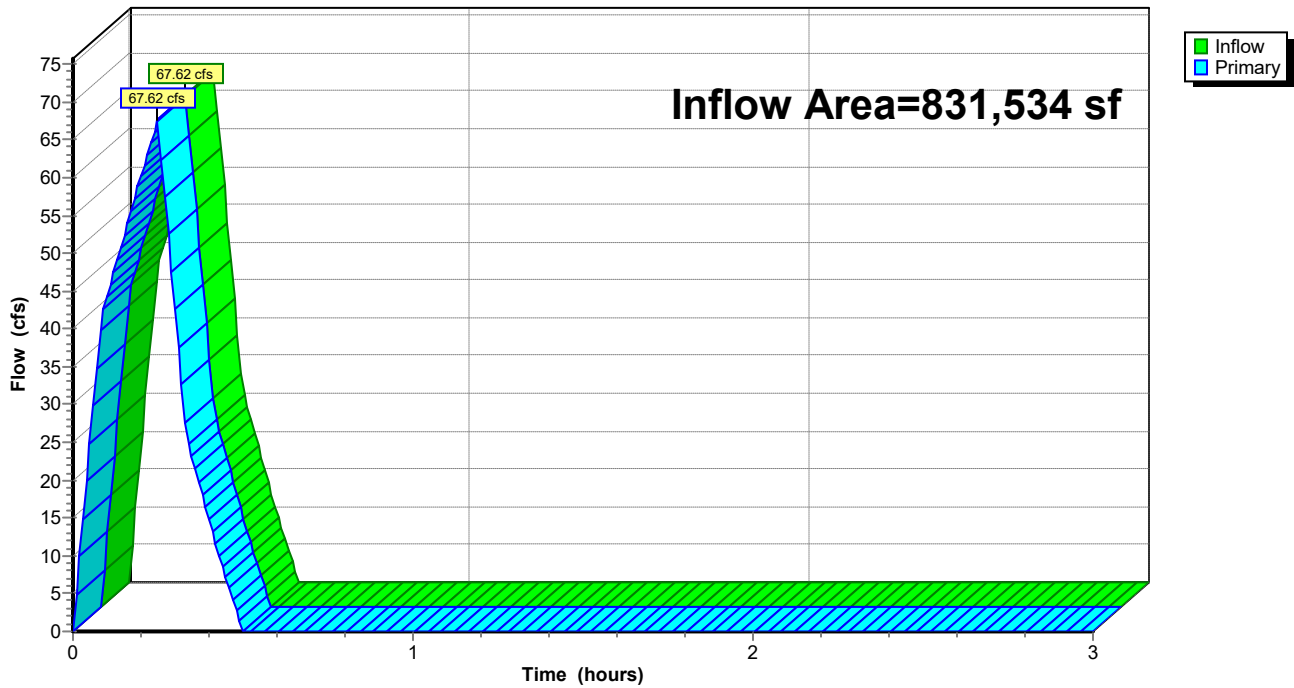
## Summary for Link Pre: Pre Development

Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 0.88" for 25-yr event  
Inflow = 67.62 cfs @ 0.25 hrs, Volume= 60,640 cf  
Primary = 67.62 cfs @ 0.25 hrs, Volume= 60,640 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 10.47 cfs @ 0.09 hrs, Volume= 9,422 cf, Depth= 1.11"

Routed to Link Pre : 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=15 min, Inten=6.00 in/hr

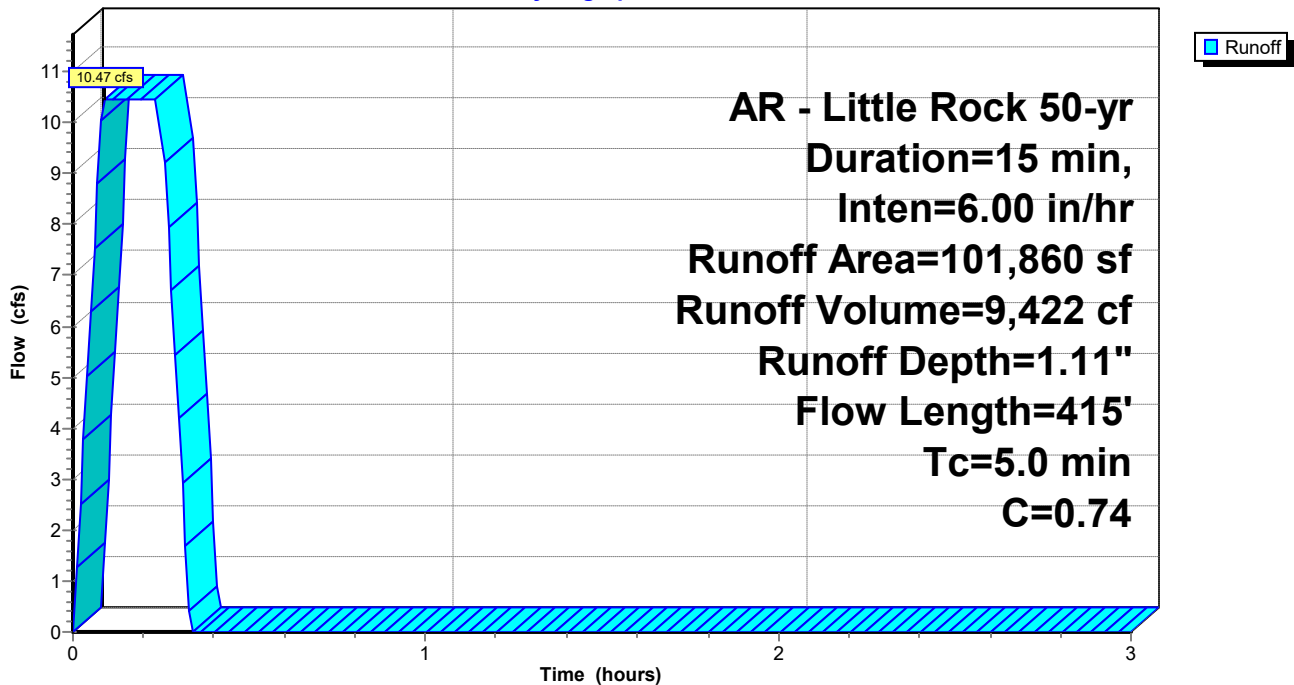
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph



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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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### Summary for Subcatchment DB-A2: Drainage Basin A2

Runoff = 17.25 cfs @ 0.09 hrs, Volume= 15,521 cf, Depth= 1.11"

Routed to Link Pre : 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=15 min, Inten=6.00 in/hr

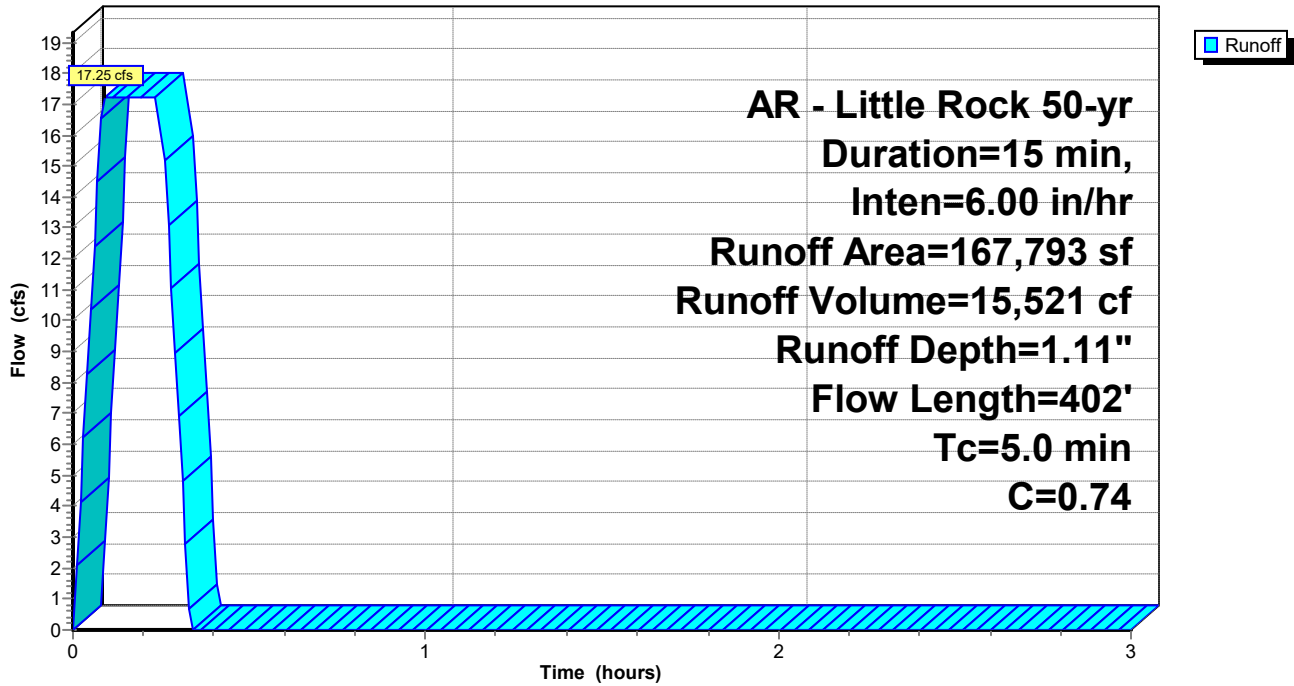
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A2: Drainage Basin A2

Hydrograph





**Summerwood Gym 3**

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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**Summary for Subcatchment DB-A3: Drainage Basin A3**

Runoff = 28.54 cfs @ 0.25 hrs, Volume= 25,684 cf, Depth= 0.86"

Routed to Link Pre : Pre Development

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

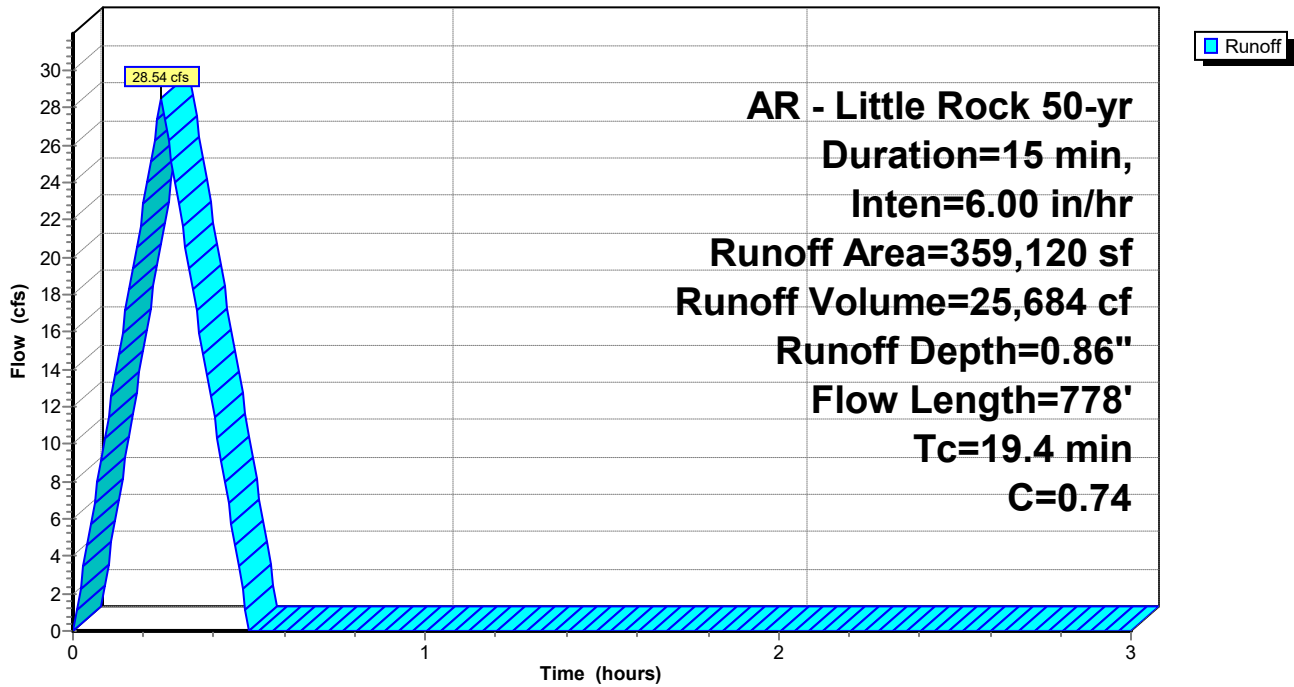
AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

**Subcatchment DB-A3: Drainage Basin A3**

Hydrograph



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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 4.11 cfs @ 0.19 hrs, Volume= 3,700 cf, Depth= 1.11"

Routed to Link Pre : 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=15 min, Inten=6.00 in/hr

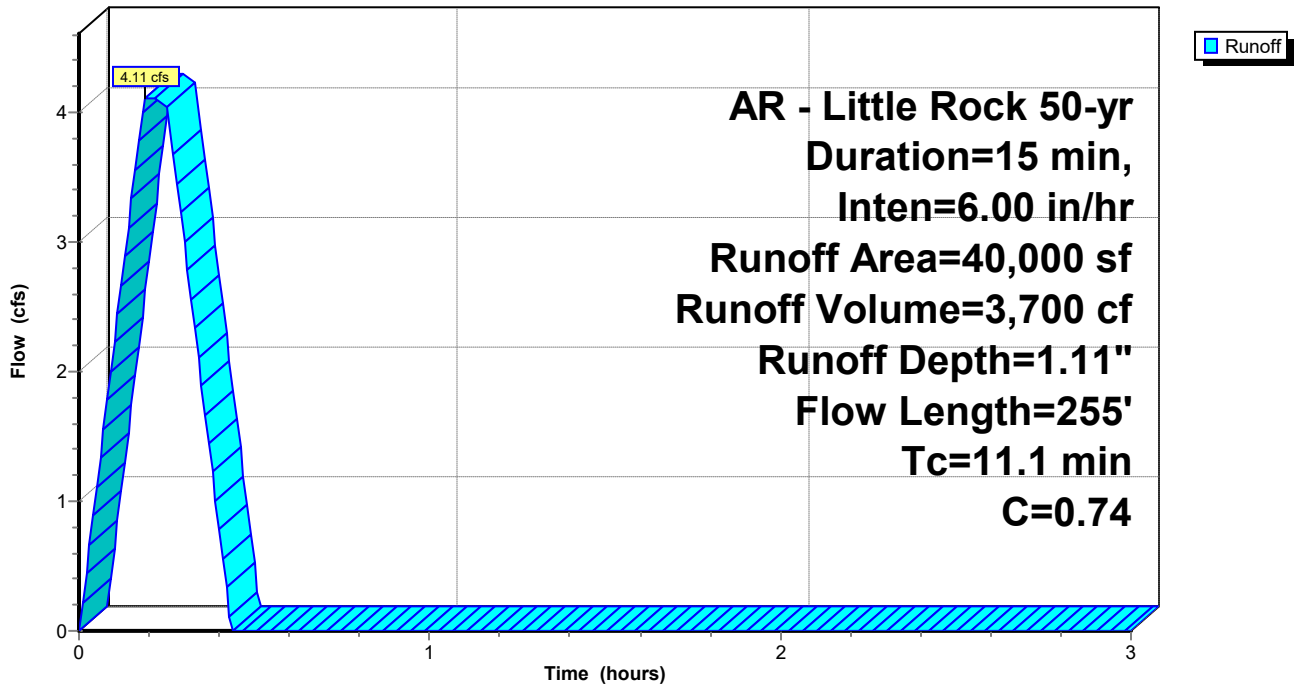
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph



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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 3.26 cfs @ 0.09 hrs, Volume= 2,938 cf, Depth= 1.11"

Routed to Link Pre : 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=15 min, Inten=6.00 in/hr

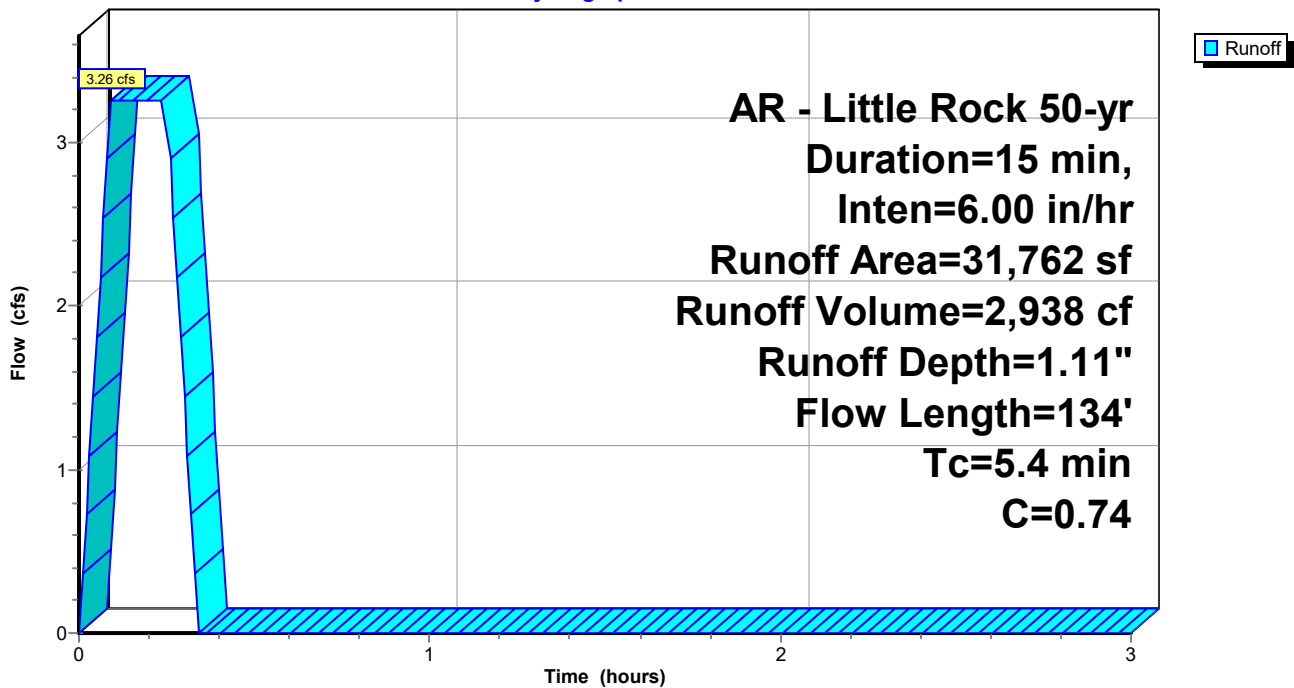
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph



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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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### Summary for Subcatchment DB-A6: Drainage Basin A6

Runoff = 10.69 cfs @ 0.25 hrs, Volume= 9,617 cf, Depth= 0.88"

Routed to Link Pre : 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=15 min, Inten=6.00 in/hr

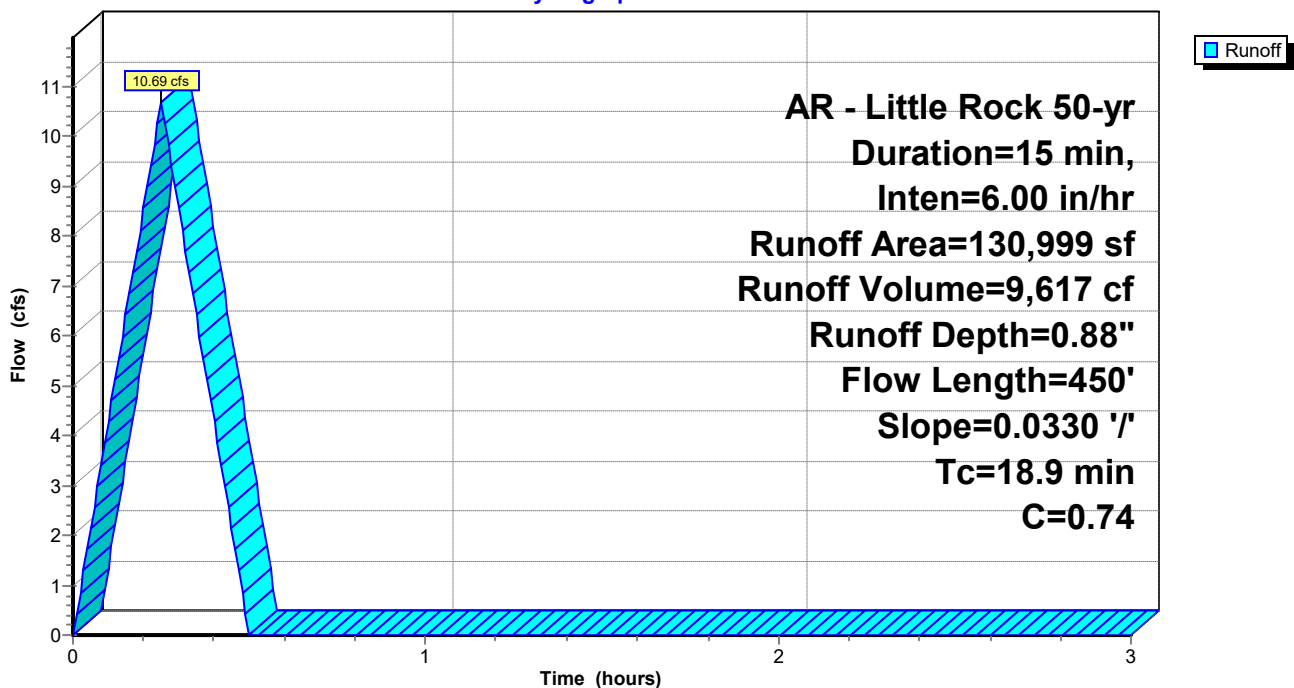
Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

### Subcatchment DB-A6: Drainage Basin A6

Hydrograph



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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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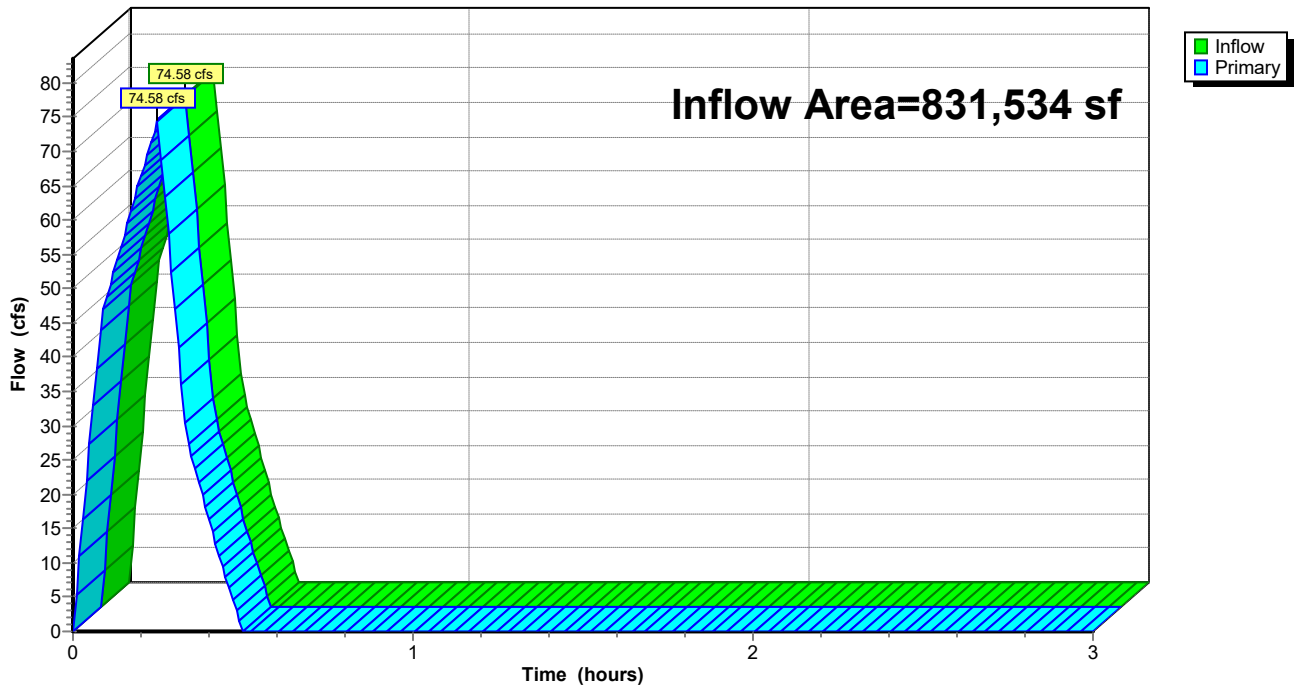
## Summary for Link Pre: Pre Development

Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 0.97" for 50-yr event  
Inflow = 74.58 cfs @ 0.25 hrs, Volume= 66,882 cf  
Primary = 74.58 cfs @ 0.25 hrs, Volume= 66,882 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph



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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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### Summary for Subcatchment DB-A1: Drainage Basin A1

Runoff = 11.38 cfs @ 0.09 hrs, Volume= 10,239 cf, Depth= 1.21"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

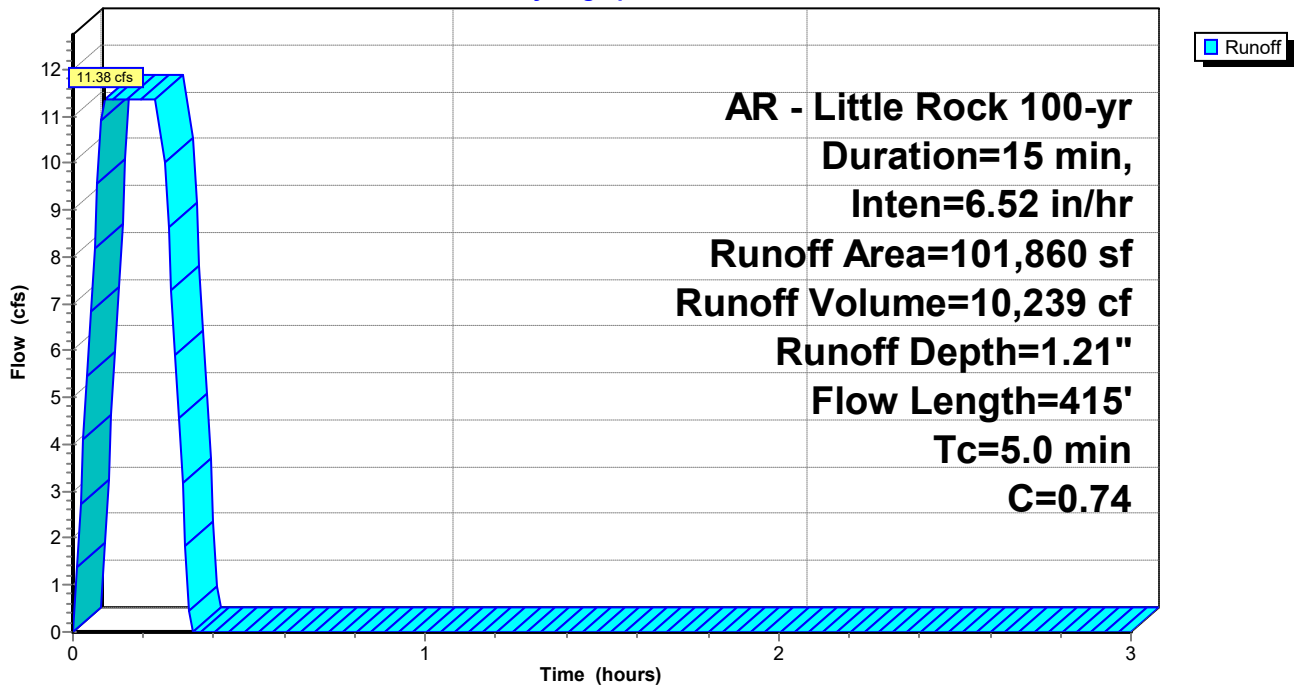
Area (sf)	C	Description
101,860	0.74	
101,860		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	415		1.38		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A1: Drainage Basin A1

Hydrograph





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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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### Summary for Subcatchment DB-A2: Drainage Basin A2

Runoff = 18.74 cfs @ 0.09 hrs, Volume= 16,866 cf, Depth= 1.21"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

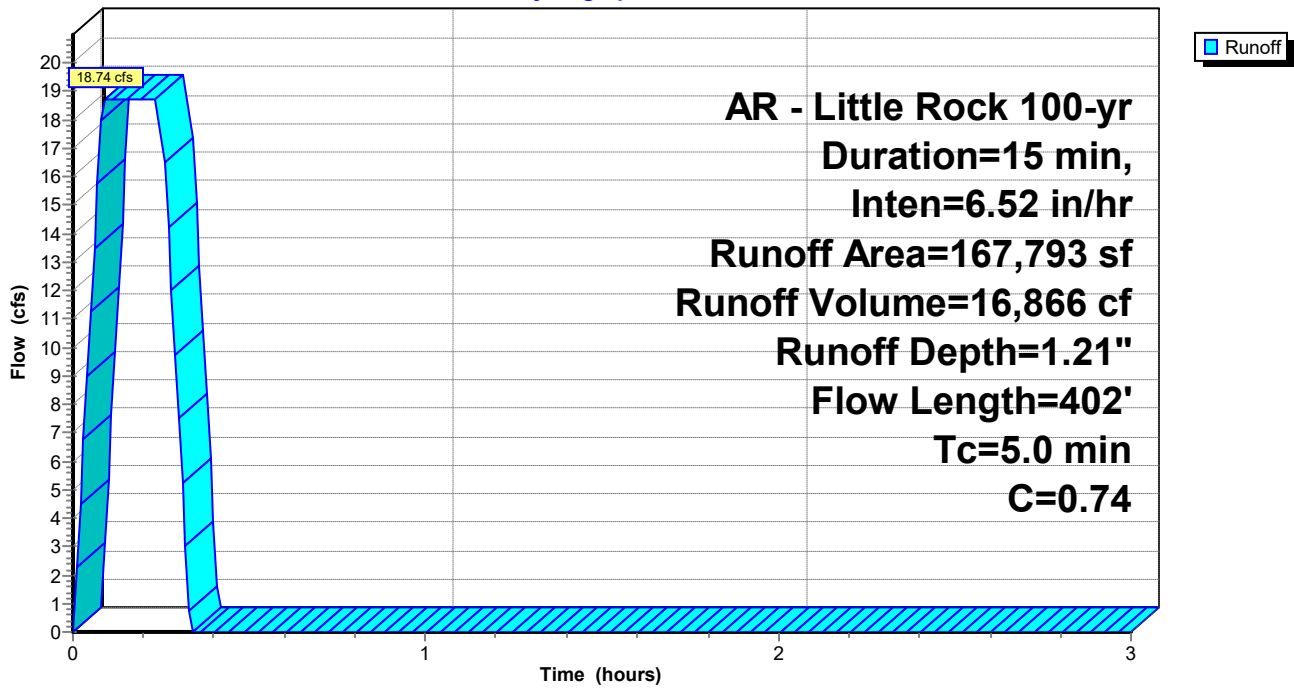
Area (sf)	C	Description
167,793	0.74	
167,793		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0	402		1.34		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment DB-A2: Drainage Basin A2

Hydrograph



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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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**Summary for Subcatchment DB-A3: Drainage Basin A3**

Runoff = 31.01 cfs @ 0.25 hrs, Volume= 27,910 cf, Depth= 0.93"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

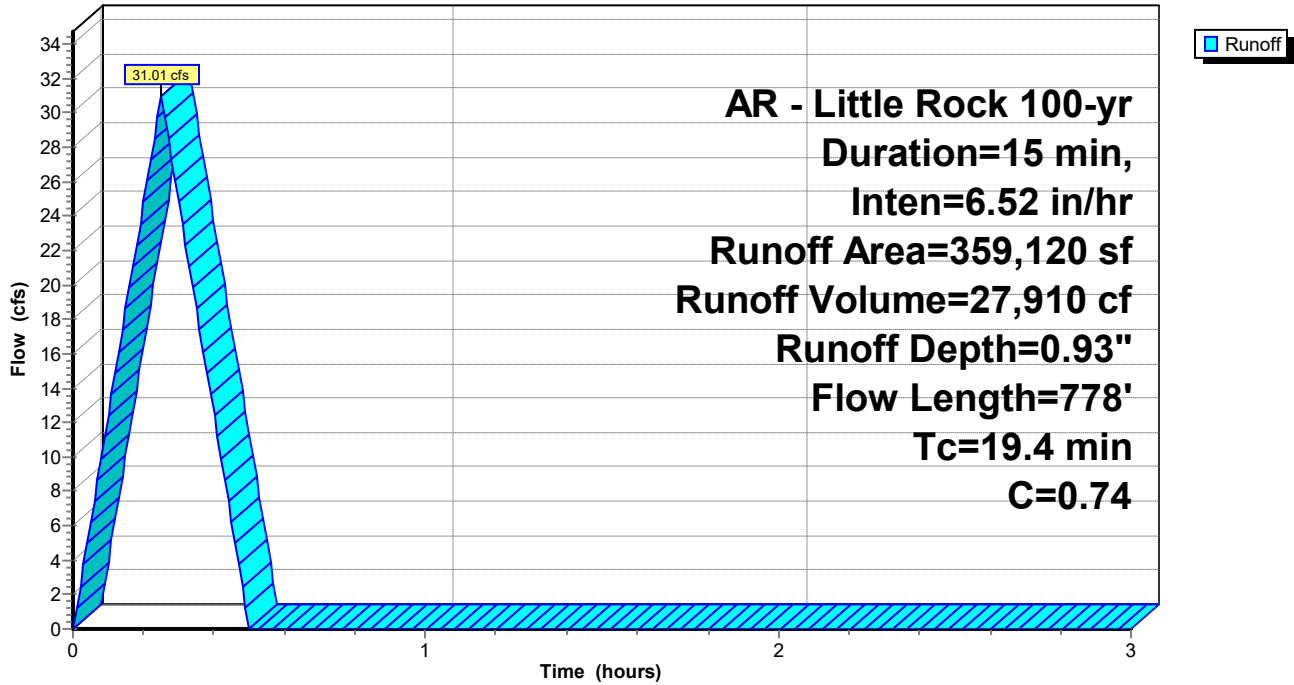
Area (sf)	C	Description
359,120	0.74	
359,120		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	300	0.0420	0.37		<b>Sheet Flow, Overland Sheet Flow</b> Range n= 0.130 P2= 4.19"
1.2	103	0.0430	1.45		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
1.7	150	0.0460	1.50		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
2.8	225	0.0360	1.33		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
19.4	778	Total			

**Subcatchment DB-A3: Drainage Basin A3**

Hydrograph



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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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**Summary for Subcatchment DB-A4: Drainage Basin A4**

Runoff = 4.47 cfs @ 0.19 hrs, Volume= 4,021 cf, Depth= 1.21"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

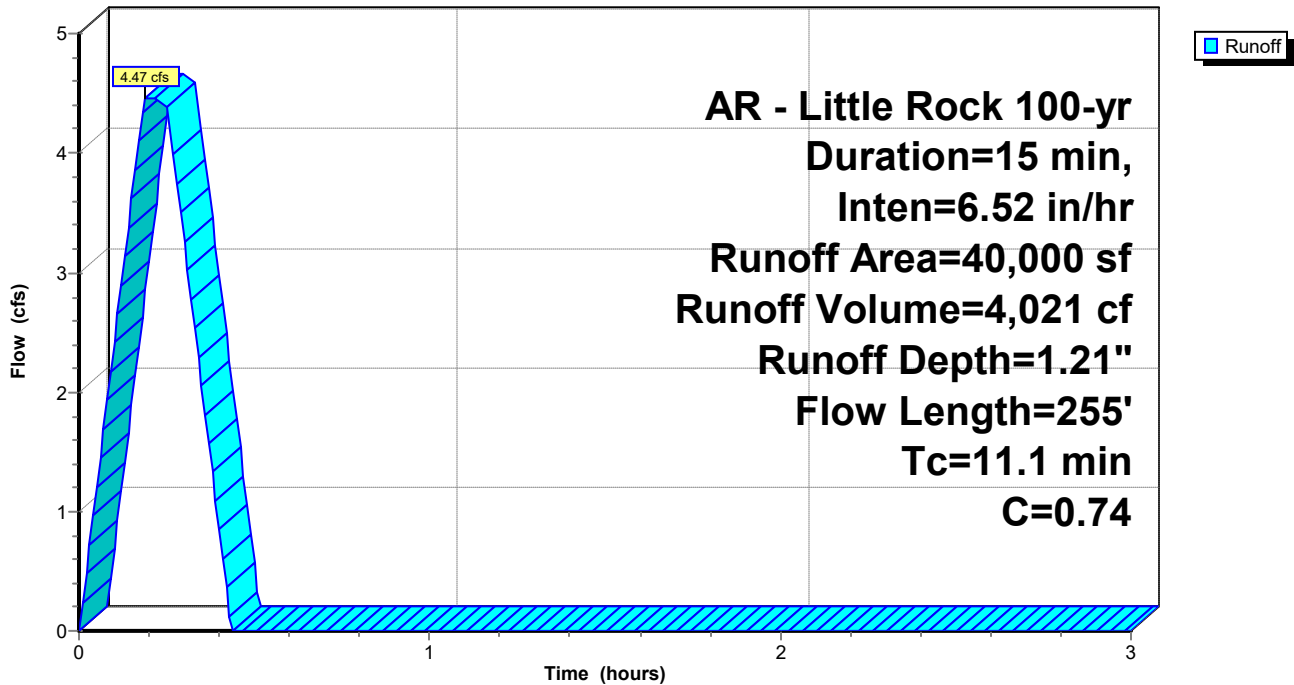
Area (sf)	C	Description
40,000	0.74	
40,000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.8	50	0.0390	0.22		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
6.4	114	0.0530	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.9	91	0.0600	1.71		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
11.1	255	Total			

**Subcatchment DB-A4: Drainage Basin A4**

Hydrograph



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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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**Summary for Subcatchment DB-A5: Drainage Basin A5**

Runoff = 3.55 cfs @ 0.09 hrs, Volume= 3,193 cf, Depth= 1.21"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

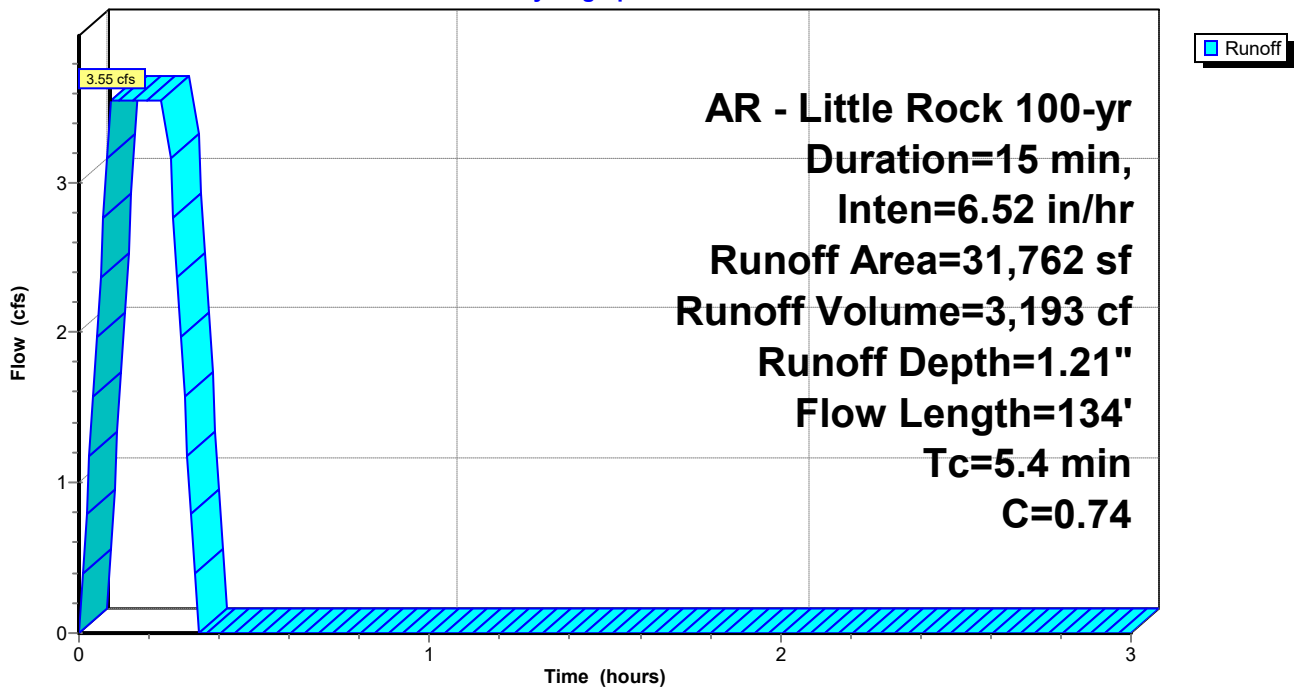
Area (sf)	C	Description
31,762	0.74	
31,762		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.2	111	0.0850	0.35		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
0.2	23	0.0680	1.91		<b>Sheet Flow, Overland Sheet Flow</b> Smooth surfaces n= 0.011 P2= 4.19"
5.4	134	Total			

**Subcatchment DB-A5: Drainage Basin A5**

Hydrograph



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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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**Summary for Subcatchment DB-A6: Drainage Basin A6**

Runoff = 11.61 cfs @ 0.25 hrs, Volume= 10,450 cf, Depth= 0.96"

Routed to Link Pre : 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=15 min, Inten=6.52 in/hr

Area (sf)	C	Description
130,999	0.74	
130,999		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	300	0.0330	0.30		<b>Sheet Flow, Overland Sheet Flow</b> Grass: Short n= 0.150 P2= 4.19"
2.0	150	0.0330	1.27		<b>Shallow Concentrated Flow, Overland Concentrated Flow</b> Short Grass Pasture Kv= 7.0 fps
18.9	450	Total			

**Subcatchment DB-A6: Drainage Basin A6**

Hydrograph



# Summerwood Gym 3

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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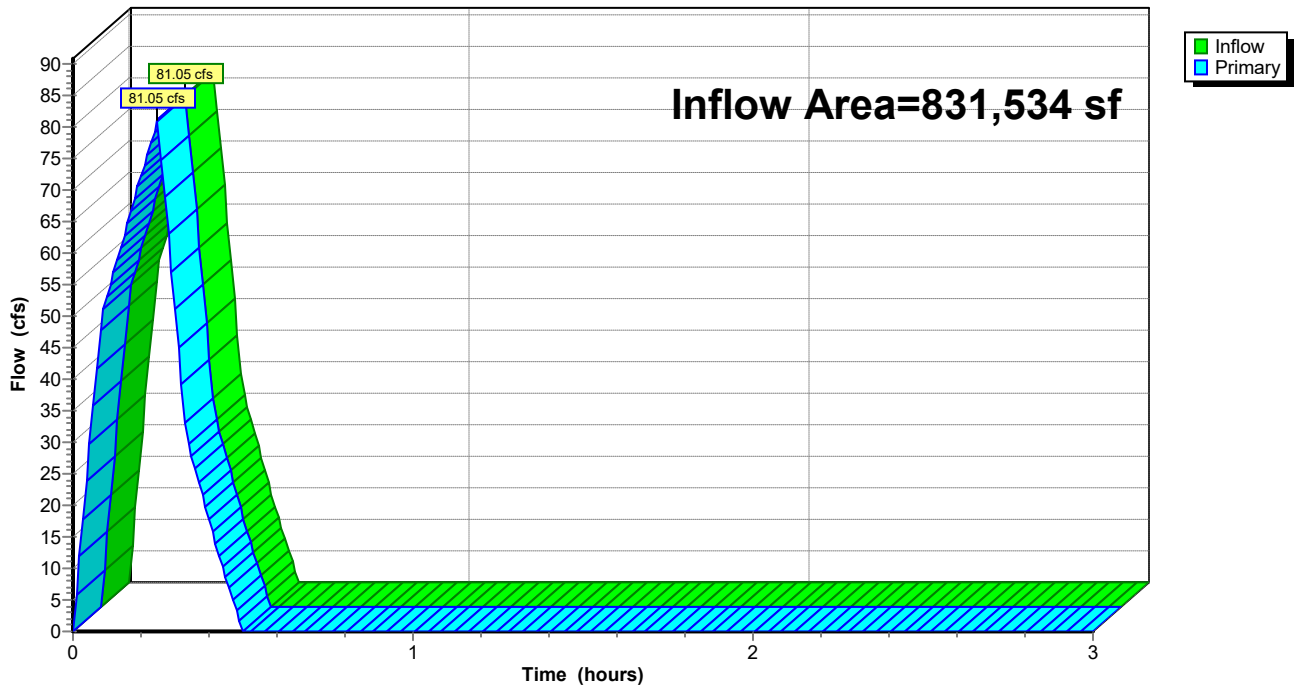
## Summary for Link Pre: Pre Development

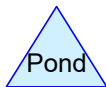
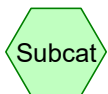
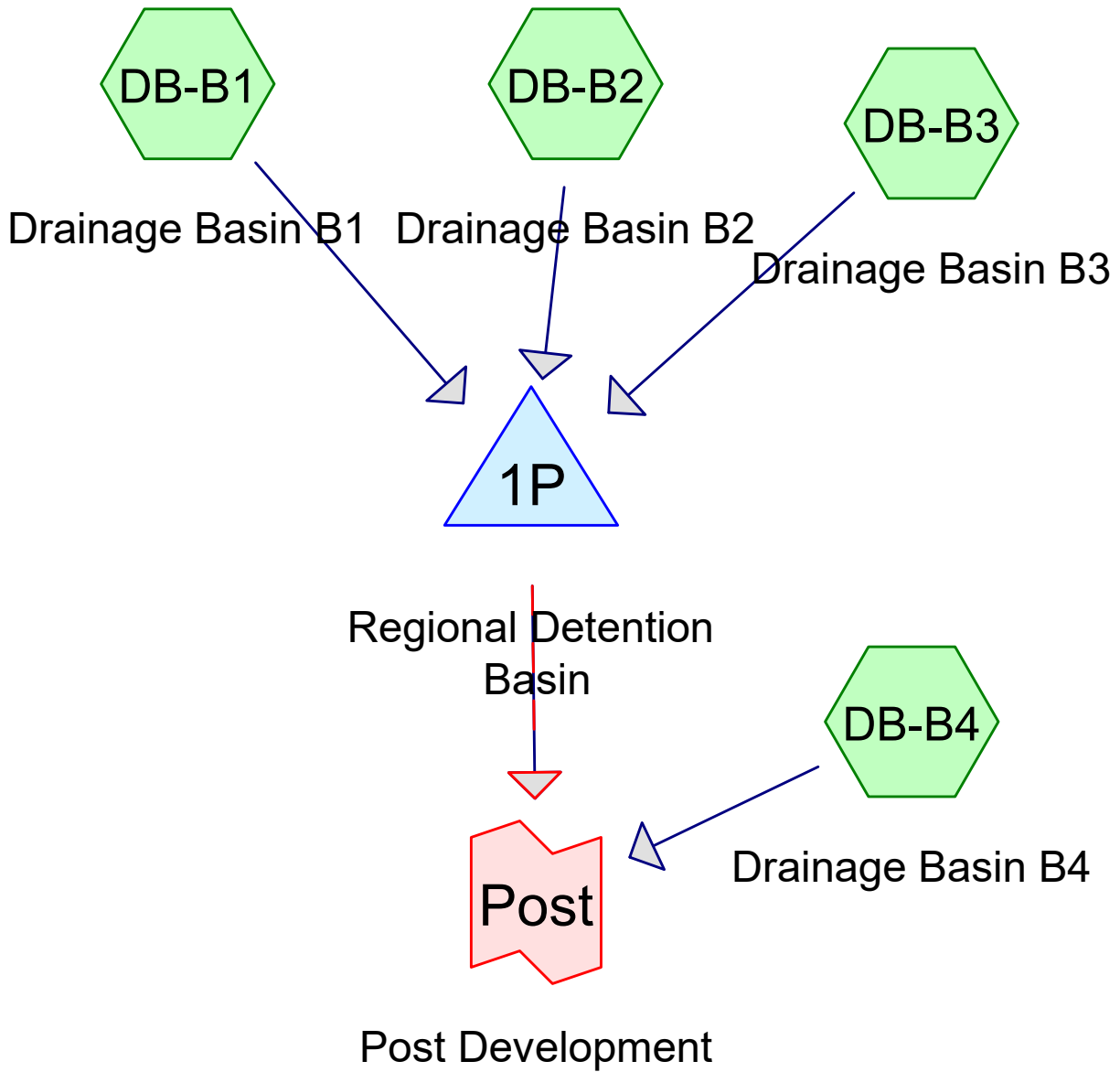
Inflow Area = 831,534 sf, 0.00% Impervious, Inflow Depth = 1.05" for 100-yr event  
Inflow = 81.05 cfs @ 0.25 hrs, Volume= 72,679 cf  
Primary = 81.05 cfs @ 0.25 hrs, Volume= 72,679 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre: Pre Development

Hydrograph







### Summerwood Gym 3

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AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 10.52 cfs @ 0.09 hrs, Volume= 9,468 cf, Depth= 0.87"

Routed to Pond 1P : Regional Detention Basin

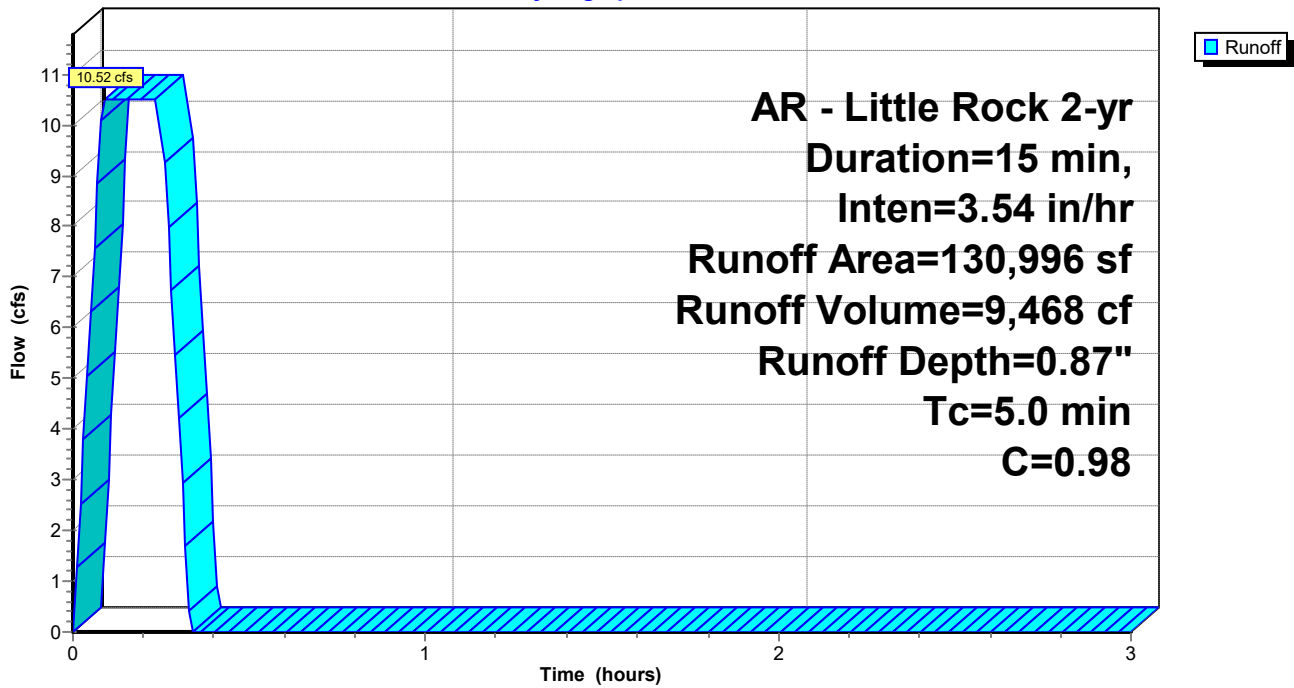
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



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AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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**Summary for Subcatchment DB-B2: Drainage Basin B2**

Runoff = 8.31 cfs @ 0.09 hrs, Volume= 7,476 cf, Depth= 0.82"

Routed to Pond 1P : Regional Detention Basin

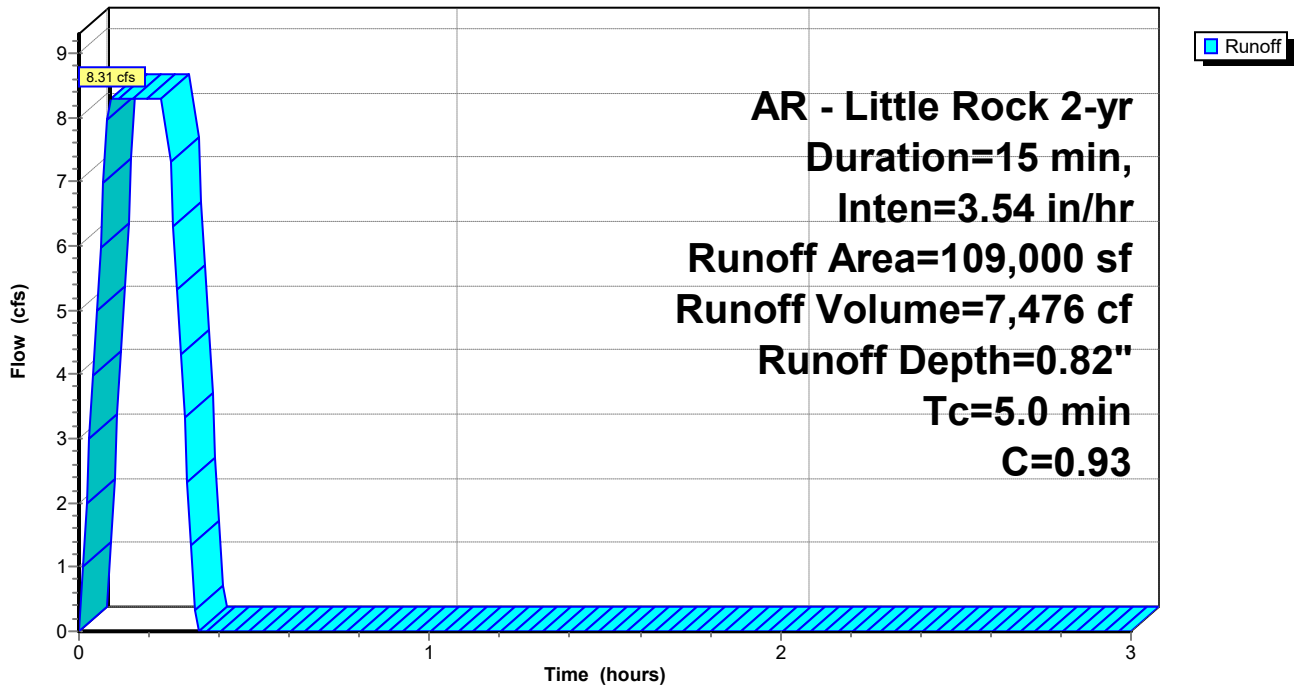
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

**Subcatchment DB-B2: Drainage Basin B2**

Hydrograph



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AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 42.28 cfs @ 0.25 hrs, Volume= 38,050 cf, Depth= 0.82"

Routed to Pond 1P : Regional Detention Basin

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

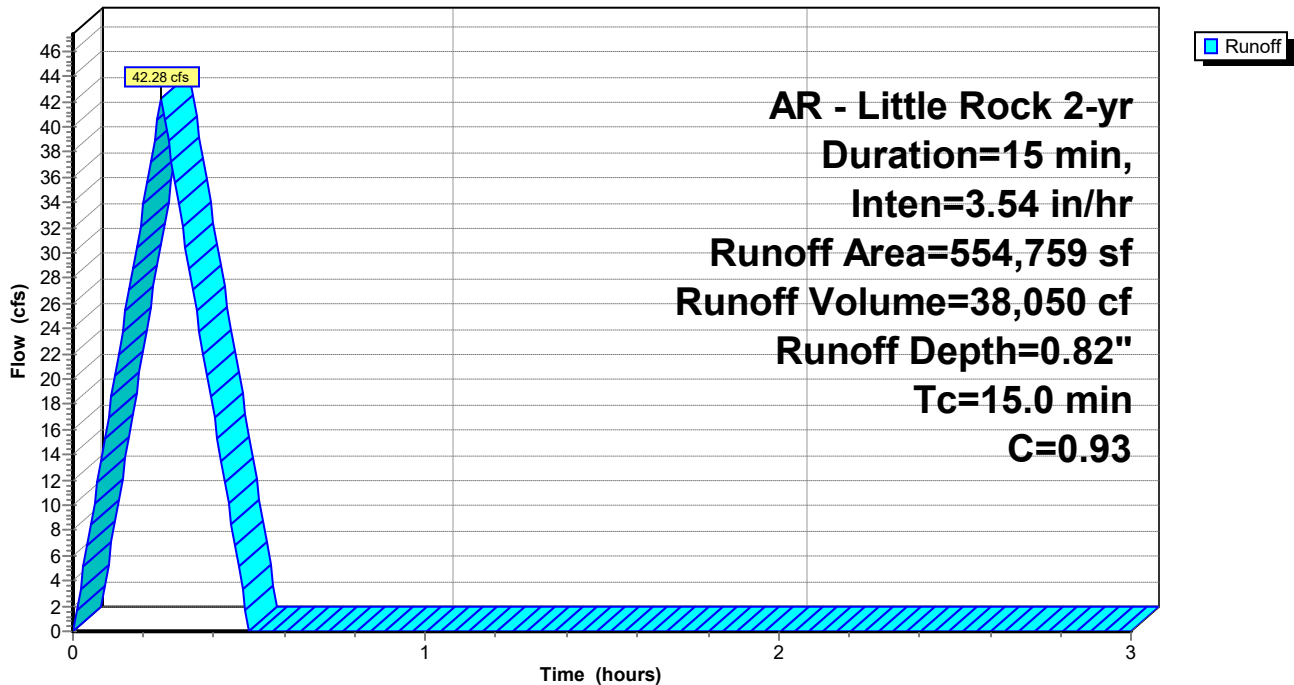
AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



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AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 2.96 cfs @ 0.09 hrs, Volume= 2,661 cf, Depth= 0.82"

Routed to Link Post : Post Development

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

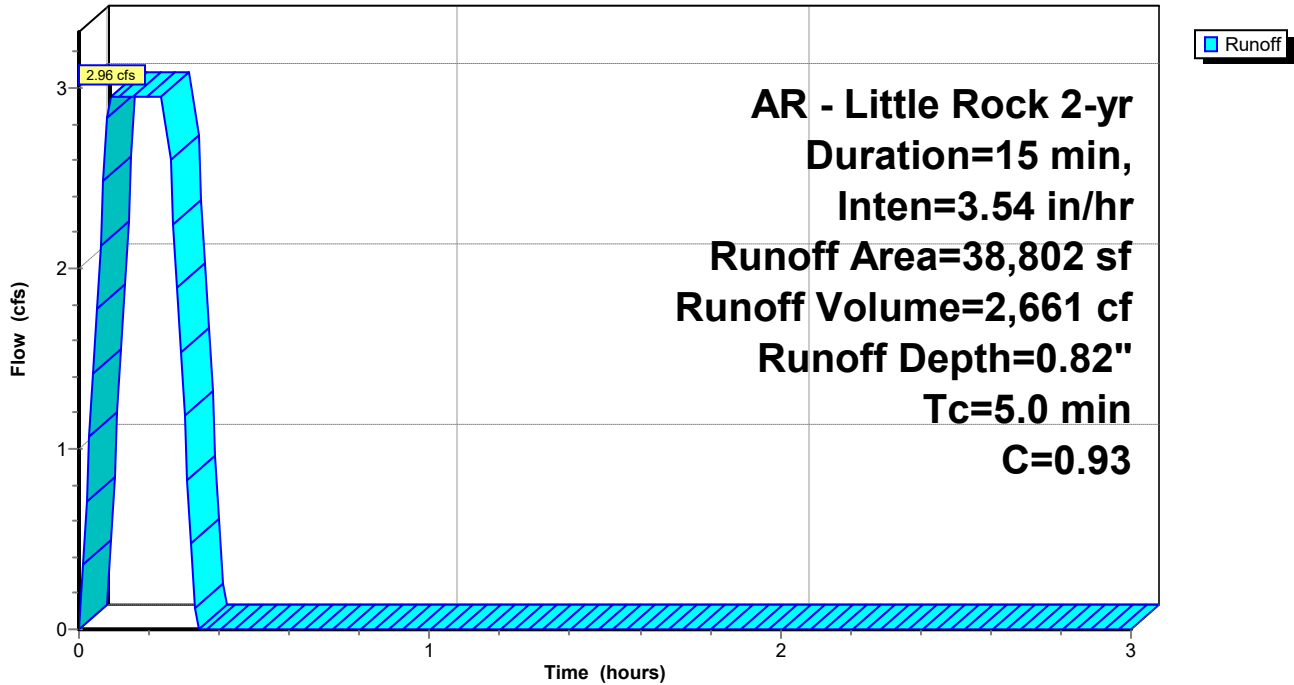
AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 0.83" for 2-yr event  
Inflow = 61.22 cfs @ 0.25 hrs, Volume= 54,993 cf  
Outflow = 22.83 cfs @ 0.37 hrs, Volume= 51,485 cf, Atten= 63%, Lag= 7.0 min  
Primary = 22.83 cfs @ 0.37 hrs, Volume= 51,485 cf  
Routed to Link Post : Post Development  
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 385.28' @ 0.37 hrs Storage= 33,530 cf

Plug-Flow detention time= 27.7 min calculated for 51,314 cf (93% of inflow)  
Center-of-Mass det. time= 27.3 min ( 40.8 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=22.83 cfs @ 0.37 hrs HW=385.28' (Free Discharge)

↑ **1=RCP\_Round 24"** (Inlet Controls 22.83 cfs @ 7.27 fps)  
↑ **3=Sharp-Crested Rectangular Weir** (Passes < 69.62 cfs potential flow)  
↑ **4=Orifice/Grate** (Passes < 1.65 cfs potential flow)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=382.00' (Free Discharge)

↑ **2=Sharp-Crested Rectangular Weir** ( Controls 0.00 cfs)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

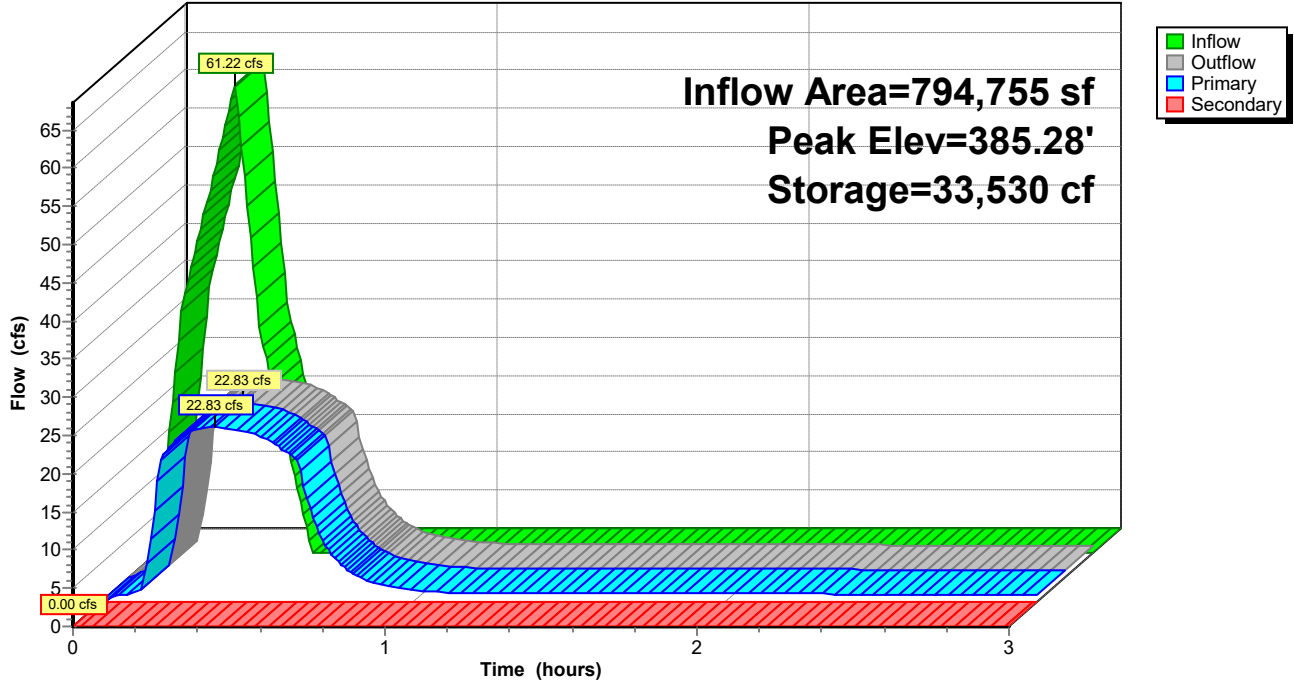
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AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

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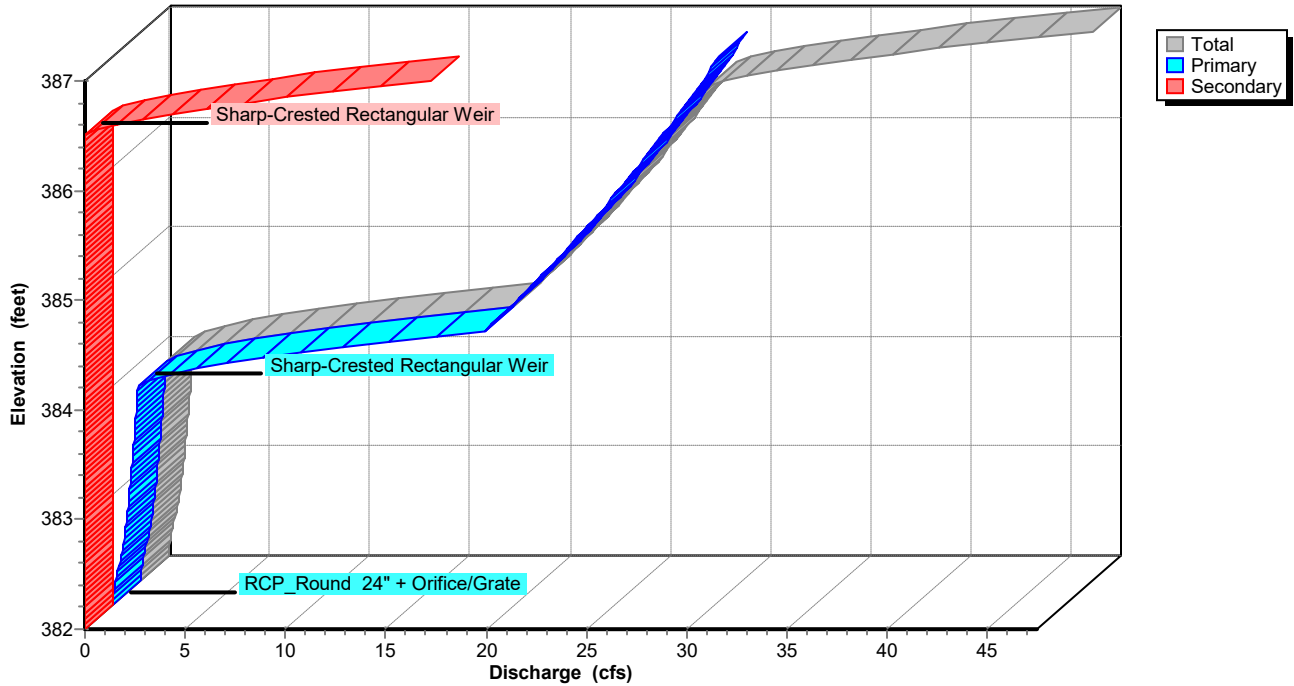
## Pond 1P: Regional Detention Basin

Hydrograph



## Pond 1P: Regional Detention Basin

Stage-Discharge



**Summerwood Gym 3**

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
383.60	7,301	386.20	55,982
383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		



# Summerwood Gym 3

AR - Little Rock 2-yr Duration=15 min, Inten=3.54 in/hr

Prepared by Phillip Lewis Engineering

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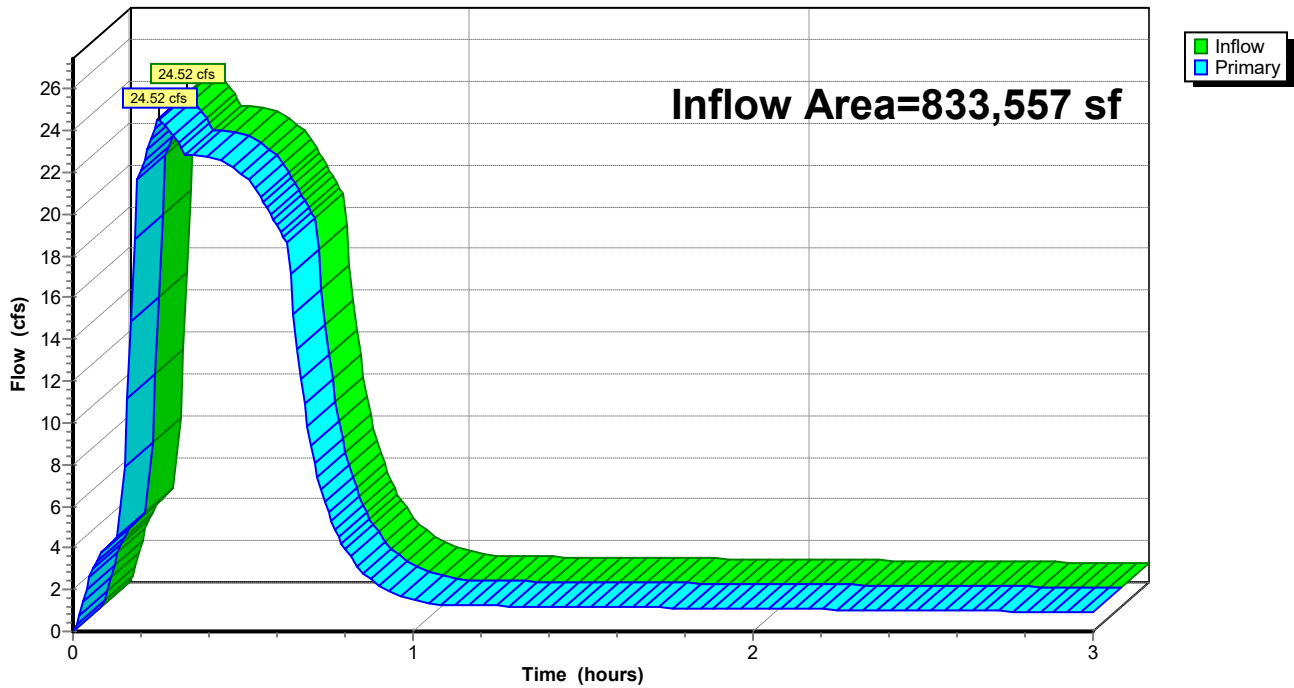
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 0.78" for 2-yr event  
Inflow = 24.52 cfs @ 0.25 hrs, Volume= 54,147 cf  
Primary = 24.52 cfs @ 0.25 hrs, Volume= 54,147 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post: Post Development

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Printed 9/19/2023

### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 12.48 cfs @ 0.09 hrs, Volume= 11,233 cf, Depth= 1.03"

Routed to Pond 1P : Regional Detention Basin

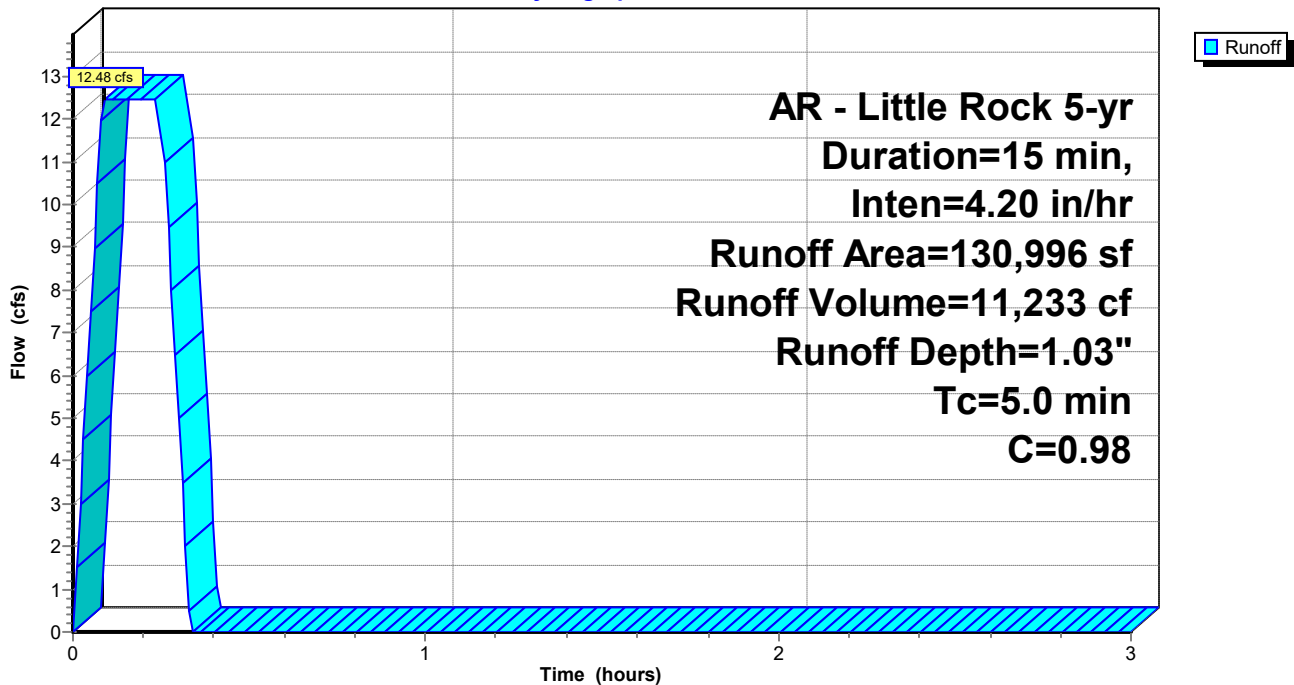
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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**Summary for Subcatchment DB-B2: Drainage Basin B2**

Runoff = 9.86 cfs @ 0.09 hrs, Volume= 8,870 cf, Depth= 0.98"  
 Routed to Pond 1P : Regional Detention Basin

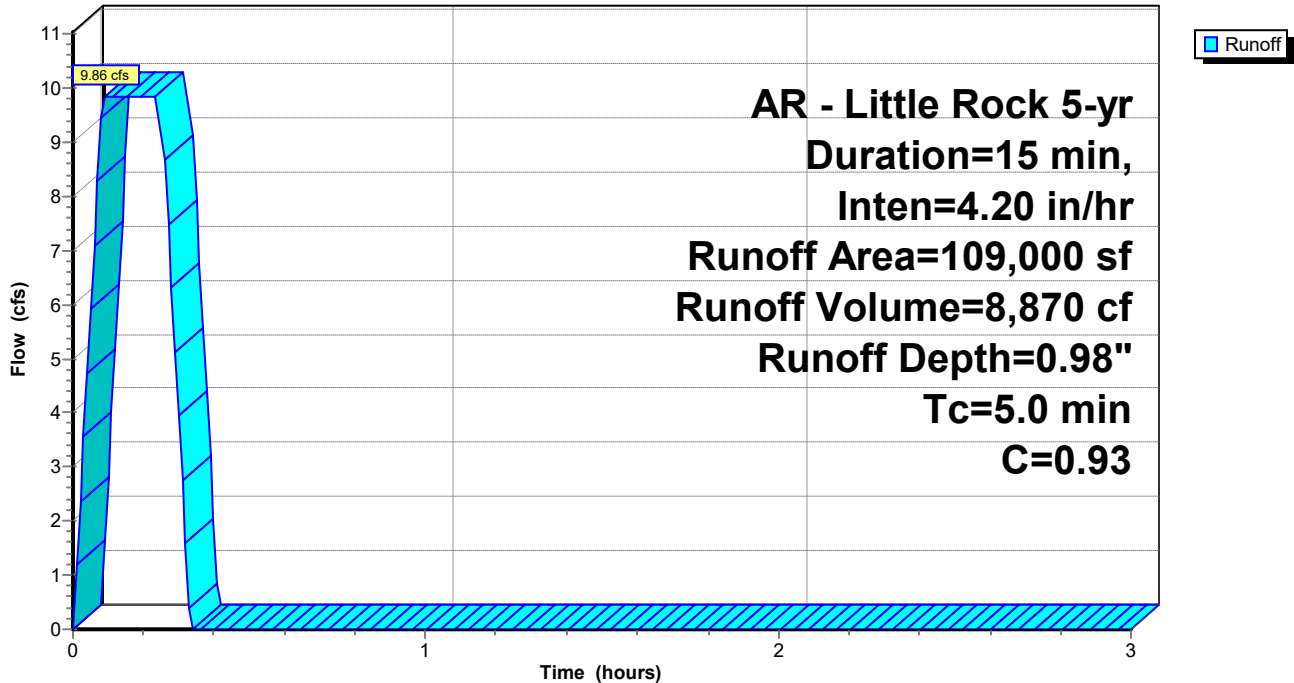
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

**Subcatchment DB-B2: Drainage Basin B2**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 50.16 cfs @ 0.25 hrs, Volume= 45,144 cf, Depth= 0.98"

Routed to Pond 1P : Regional Detention Basin

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

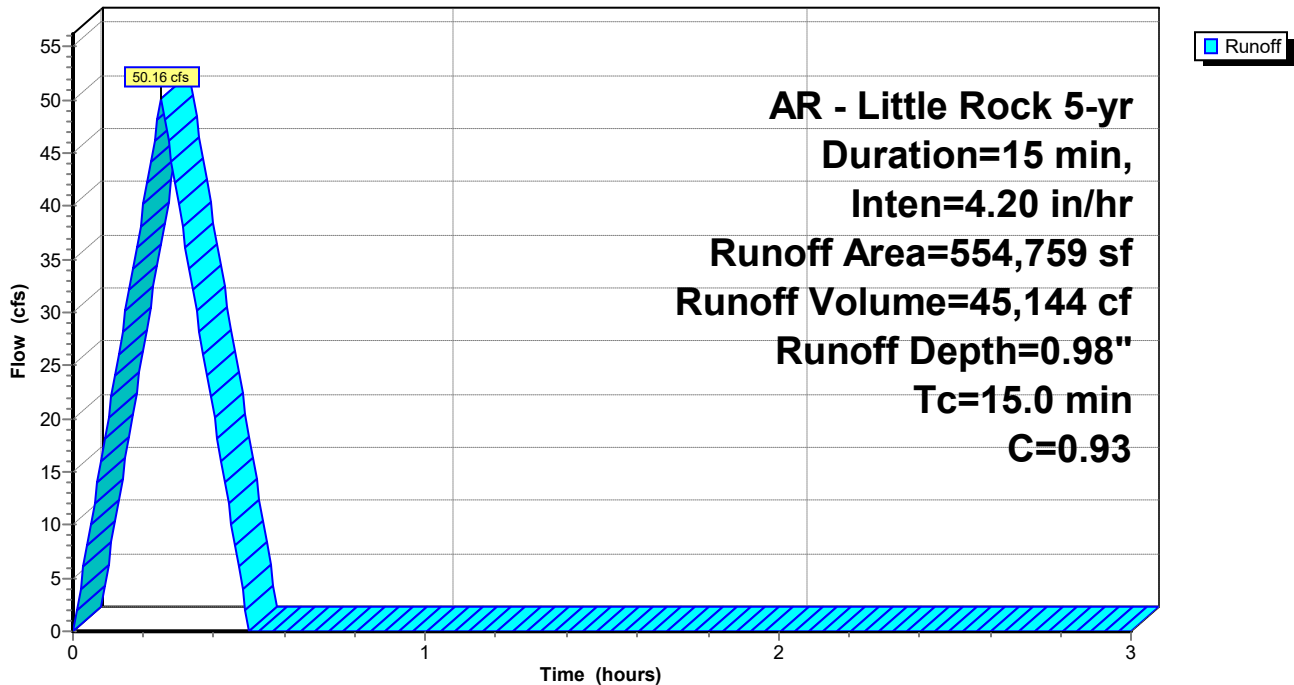
AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 3.51 cfs @ 0.09 hrs, Volume= 3,158 cf, Depth= 0.98"

Routed to Link Post : Post Development

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

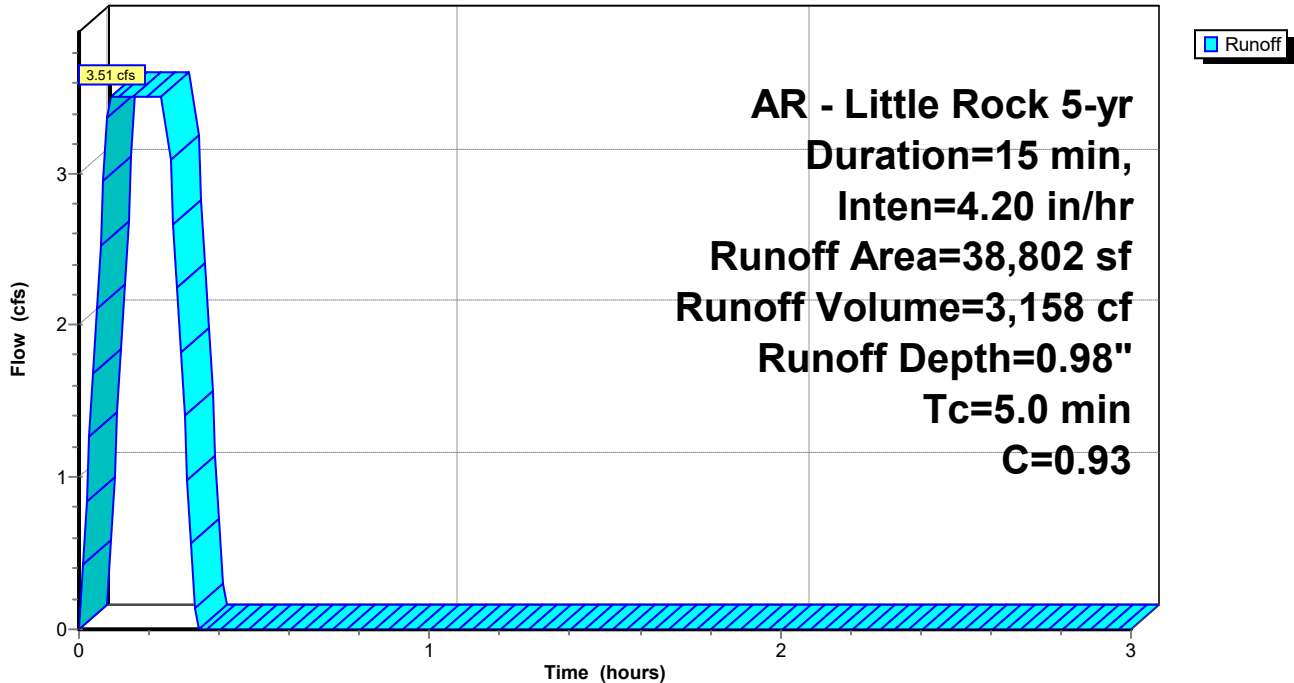
AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Prepared by Phillip Lewis Engineering

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 0.99" for 5-yr event  
 Inflow = 72.63 cfs @ 0.25 hrs, Volume= 65,246 cf  
 Outflow = 24.13 cfs @ 0.38 hrs, Volume= 61,419 cf, Atten= 67%, Lag= 7.9 min  
 Primary = 24.13 cfs @ 0.38 hrs, Volume= 61,419 cf  
 Routed to Link Post : Post Development  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
 Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 Peak Elev= 385.54' @ 0.38 hrs Storage= 41,013 cf

Plug-Flow detention time= 27.2 min calculated for 61,215 cf (94% of inflow)  
 Center-of-Mass det. time= 26.9 min ( 40.3 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=24.13 cfs @ 0.38 hrs HW=385.54' (Free Discharge)

- ↑ **1=RCP\_Round 24"** (Inlet Controls 24.13 cfs @ 7.68 fps)
- ↑ **3=Sharp-Crested Rectangular Weir** (Passes < 92.24 cfs potential flow)
- ↑ **4=Orifice/Grate** (Passes < 1.72 cfs potential flow)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=382.00' (Free Discharge)

- ↑ **2=Sharp-Crested Rectangular Weir** ( Controls 0.00 cfs)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

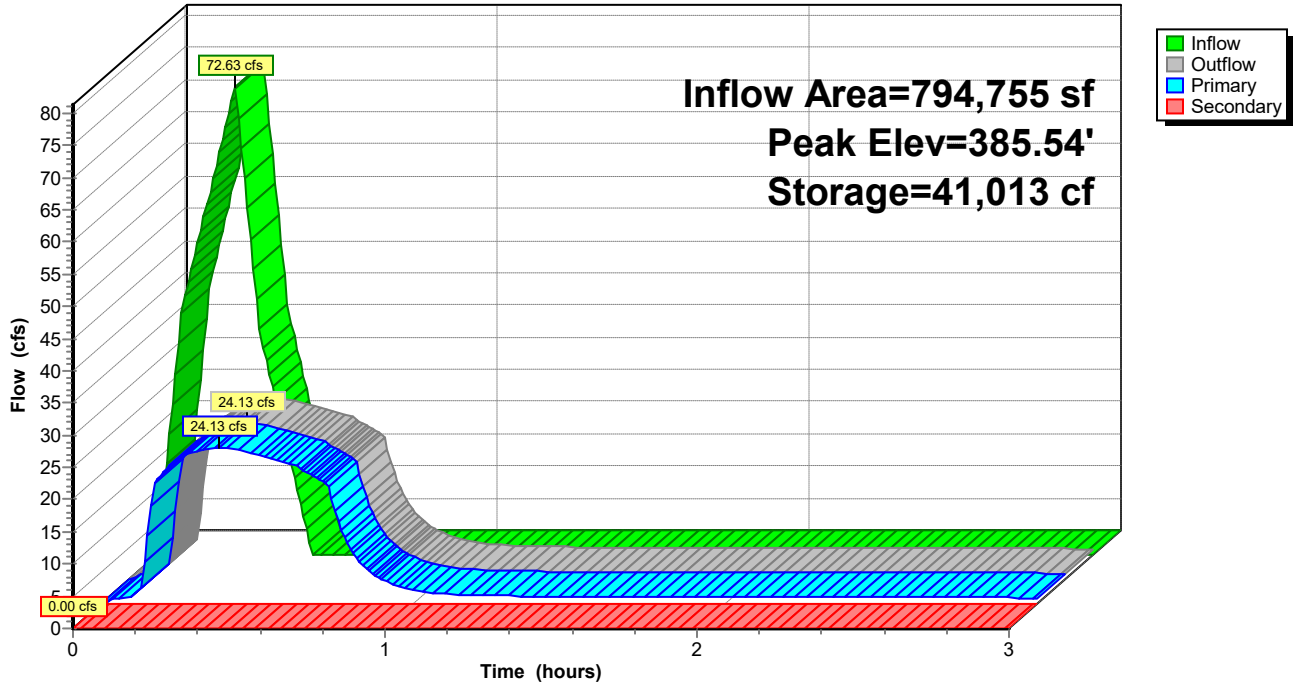
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AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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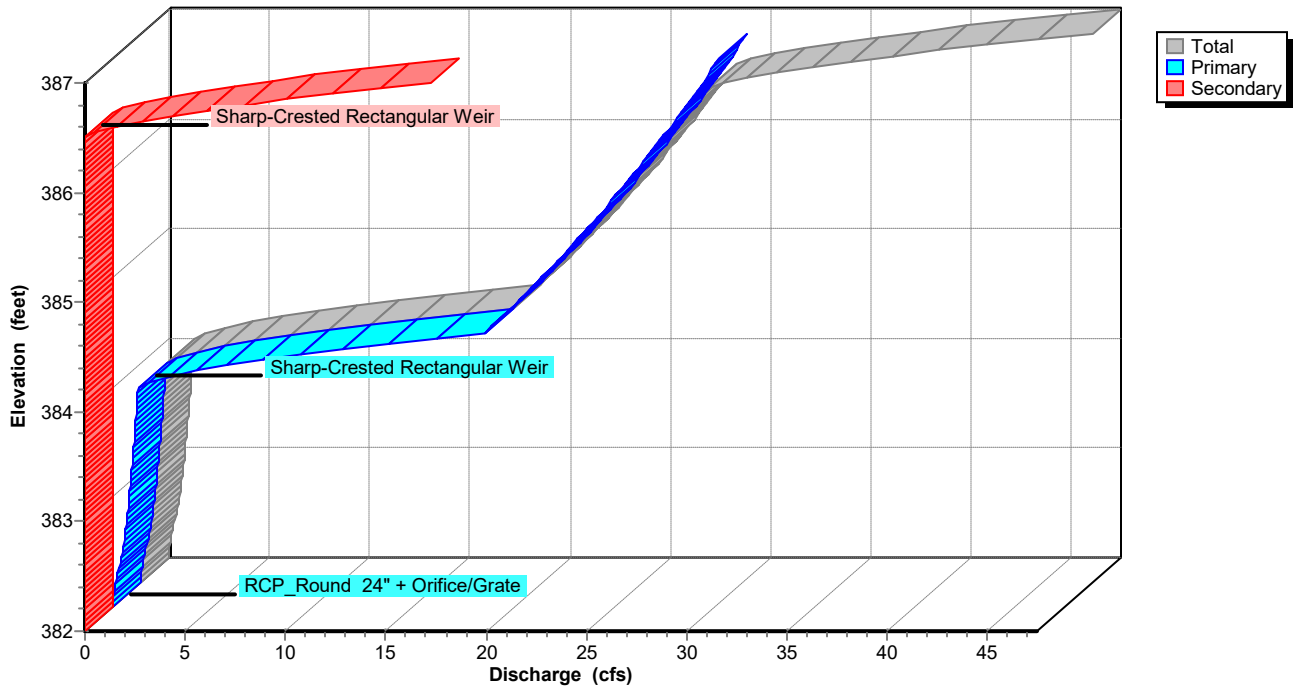
## Pond 1P: Regional Detention Basin

Hydrograph



## Pond 1P: Regional Detention Basin

Stage-Discharge





**Summerwood Gym 3**

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
383.60	7,301	386.20	55,982
383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		

# Summerwood Gym 3

AR - Little Rock 5-yr Duration=15 min, Inten=4.20 in/hr

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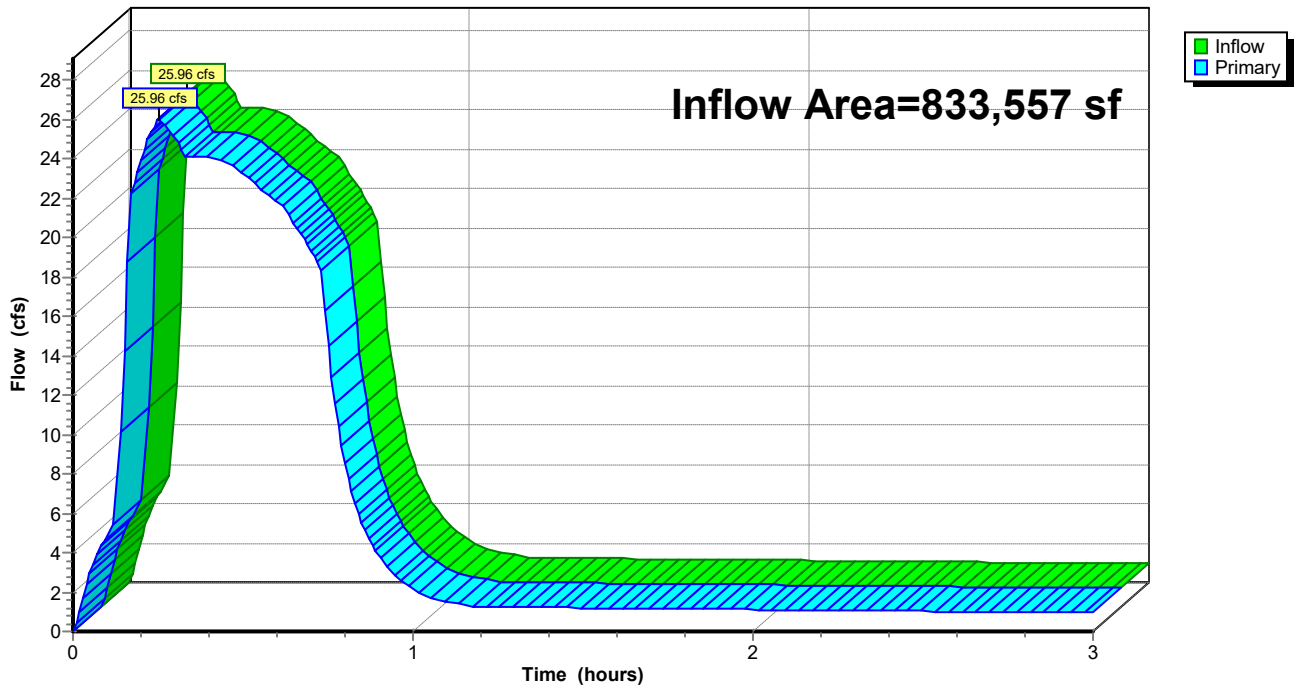
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 0.93" for 5-yr event  
Inflow = 25.96 cfs @ 0.25 hrs, Volume= 64,577 cf  
Primary = 25.96 cfs @ 0.25 hrs, Volume= 64,577 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post: Post Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 14.15 cfs @ 0.09 hrs, Volume= 12,731 cf, Depth= 1.17"

Routed to Pond 1P : Regional Detention Basin

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=15 min, Inten=4.76 in/hr

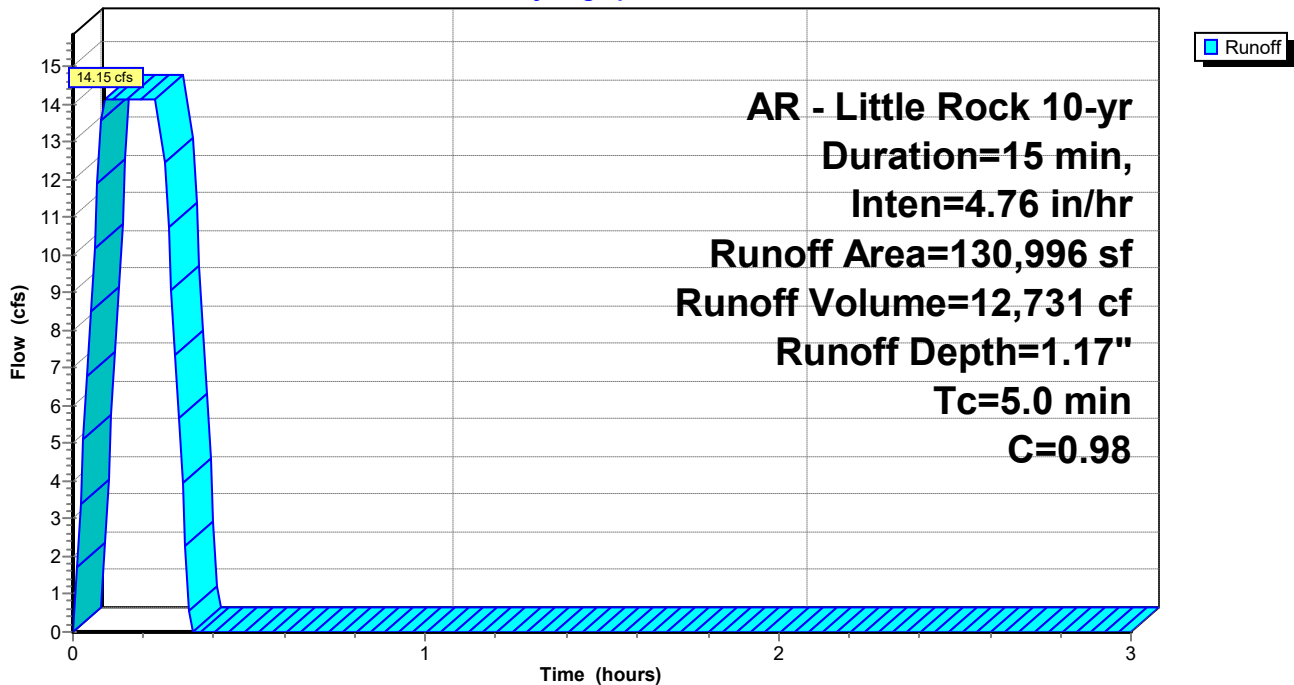
Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-B2: Drainage Basin B2**

Runoff = 11.17 cfs @ 0.09 hrs, Volume= 10,053 cf, Depth= 1.11"

Routed to Pond 1P : Regional Detention Basin

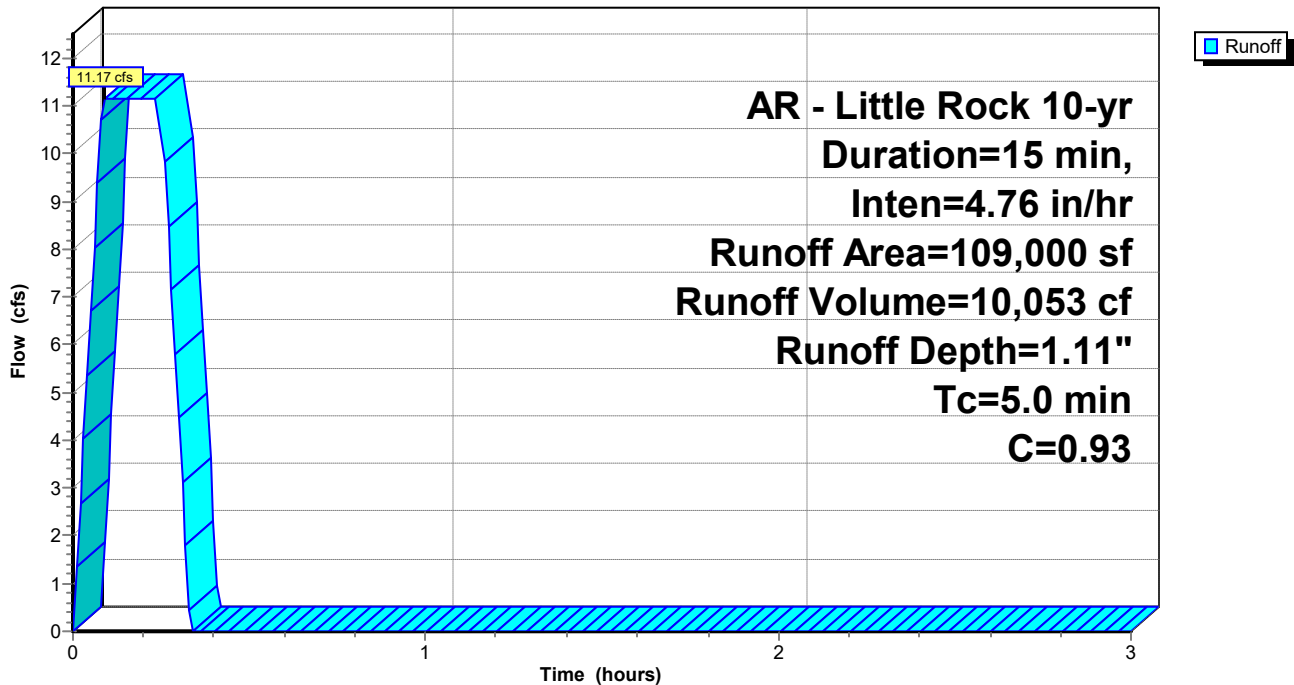
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

**Subcatchment DB-B2: Drainage Basin B2**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 56.85 cfs @ 0.25 hrs, Volume= 51,163 cf, Depth= 1.11"

Routed to Pond 1P : Regional Detention Basin

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

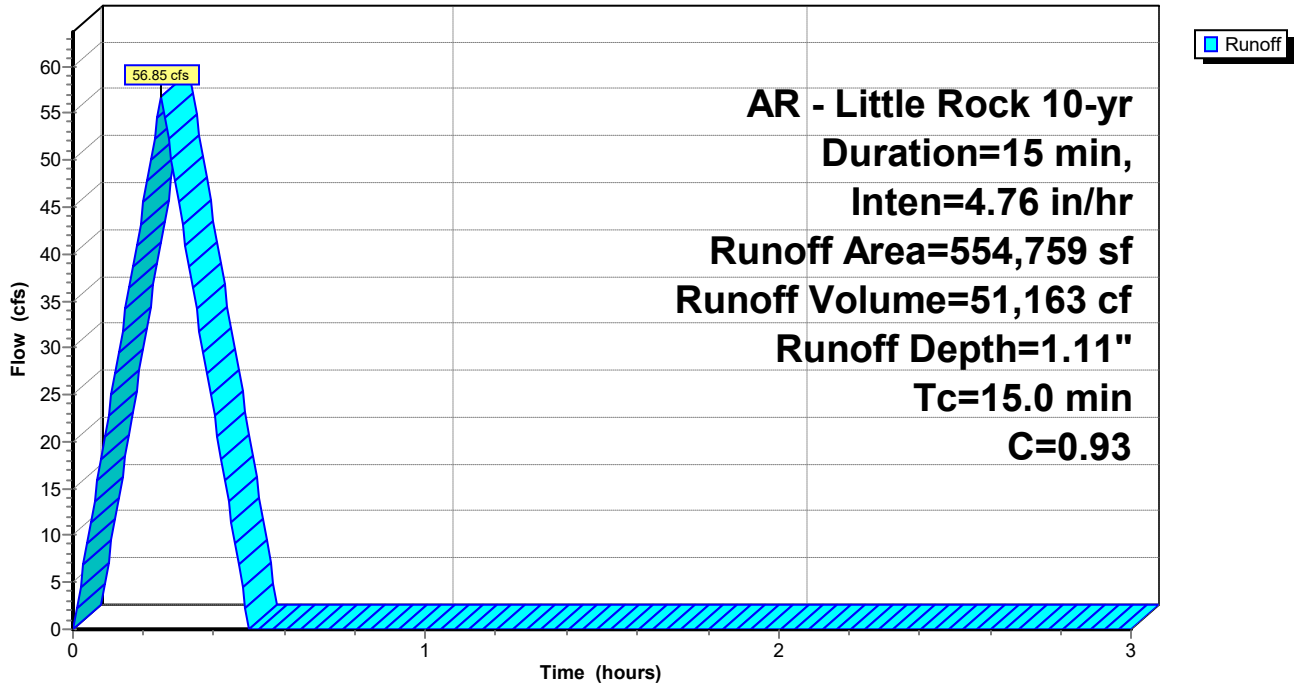
AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 3.98 cfs @ 0.09 hrs, Volume= 3,579 cf, Depth= 1.11"

Routed to Link Post : Post Development

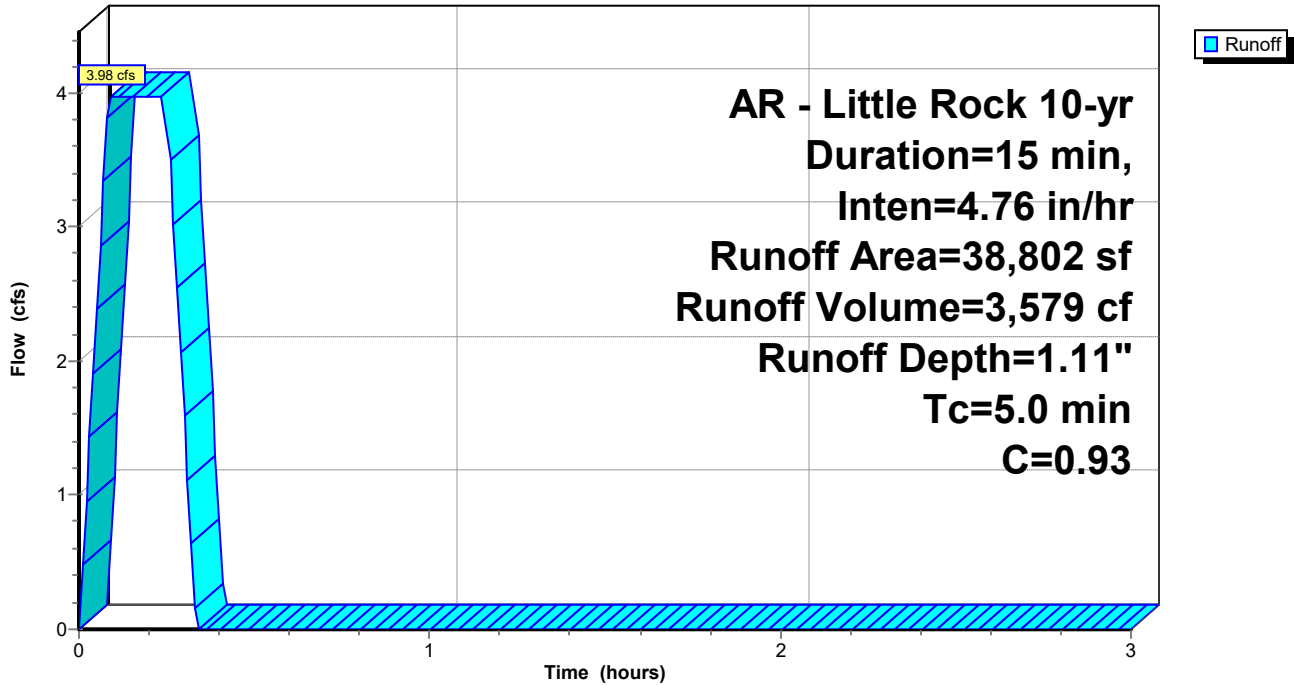
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 1.12" for 10-yr event  
Inflow = 82.31 cfs @ 0.25 hrs, Volume= 73,946 cf  
Outflow = 25.23 cfs @ 0.39 hrs, Volume= 69,849 cf, Atten= 69%, Lag= 8.5 min  
Primary = 25.23 cfs @ 0.39 hrs, Volume= 69,849 cf  
Routed to Link Post : Post Development  
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Peak Elev= 385.78' @ 0.39 hrs Storage= 47,655 cf

Plug-Flow detention time= 27.4 min calculated for 69,617 cf (94% of inflow)

Center-of-Mass det. time= 27.1 min ( 40.5 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=25.23 cfs @ 0.39 hrs HW=385.78' (Free Discharge)

↑ **1=RCP\_Round 24"** (Inlet Controls 25.23 cfs @ 8.03 fps)

↑ **3=Sharp-Crested Rectangular Weir** (Passes < 113.89 cfs potential flow)

↑ **4=Orifice/Grate** (Passes < 1.78 cfs potential flow)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=382.00' (Free Discharge)

↑ **2=Sharp-Crested Rectangular Weir** ( Controls 0.00 cfs)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

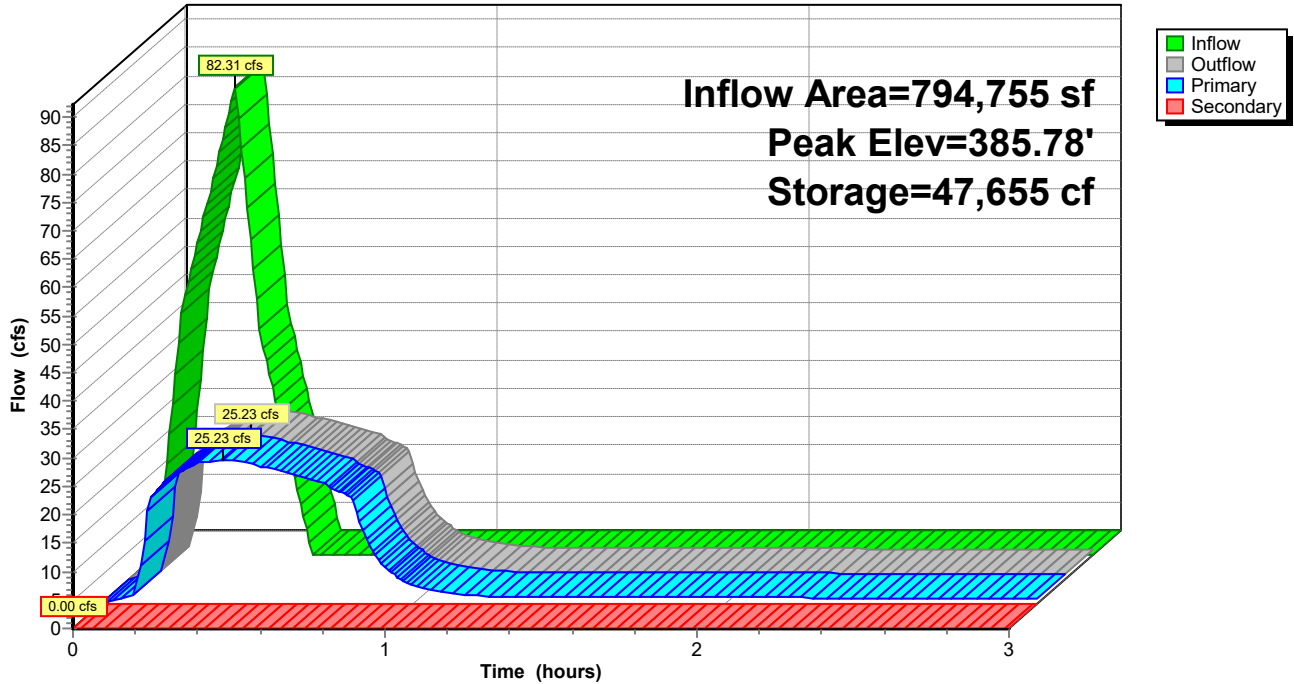
HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Printed 9/19/2023

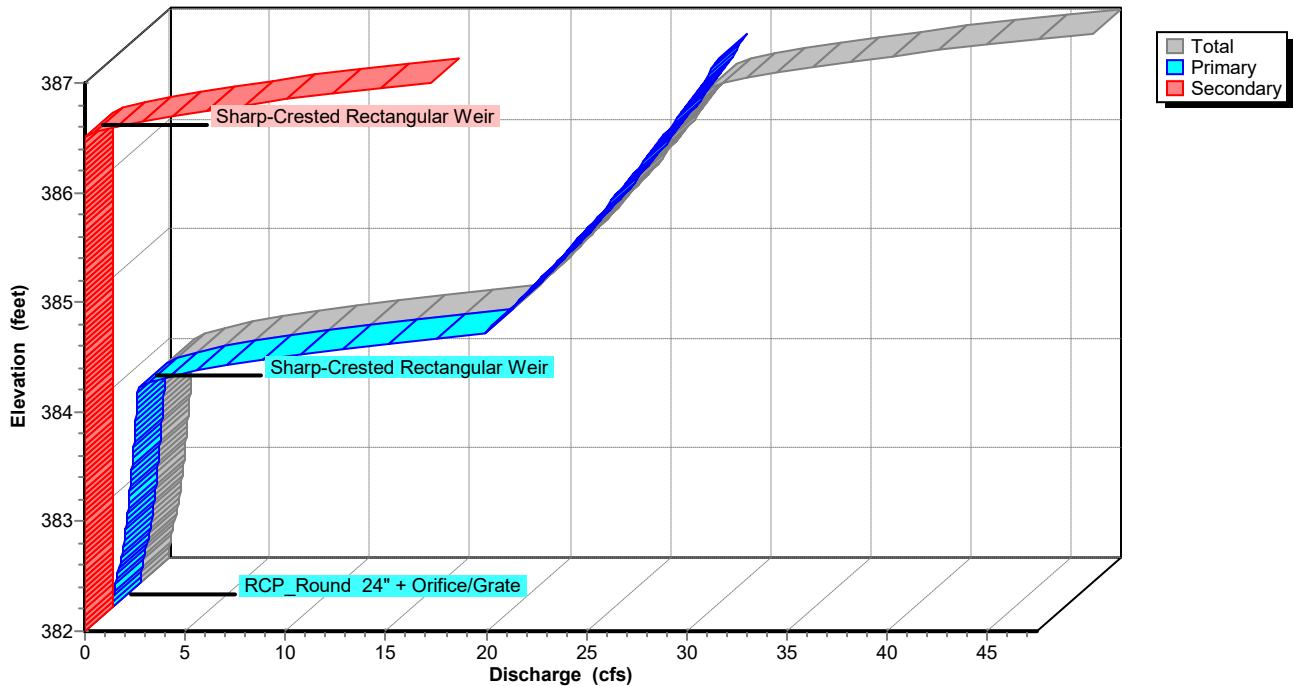
## Pond 1P: Regional Detention Basin

Hydrograph



## Pond 1P: Regional Detention Basin

Stage-Discharge





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

Printed 9/19/2023

**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
383.60	7,301	386.20	55,982
383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=15 min, Inten=4.76 in/hr

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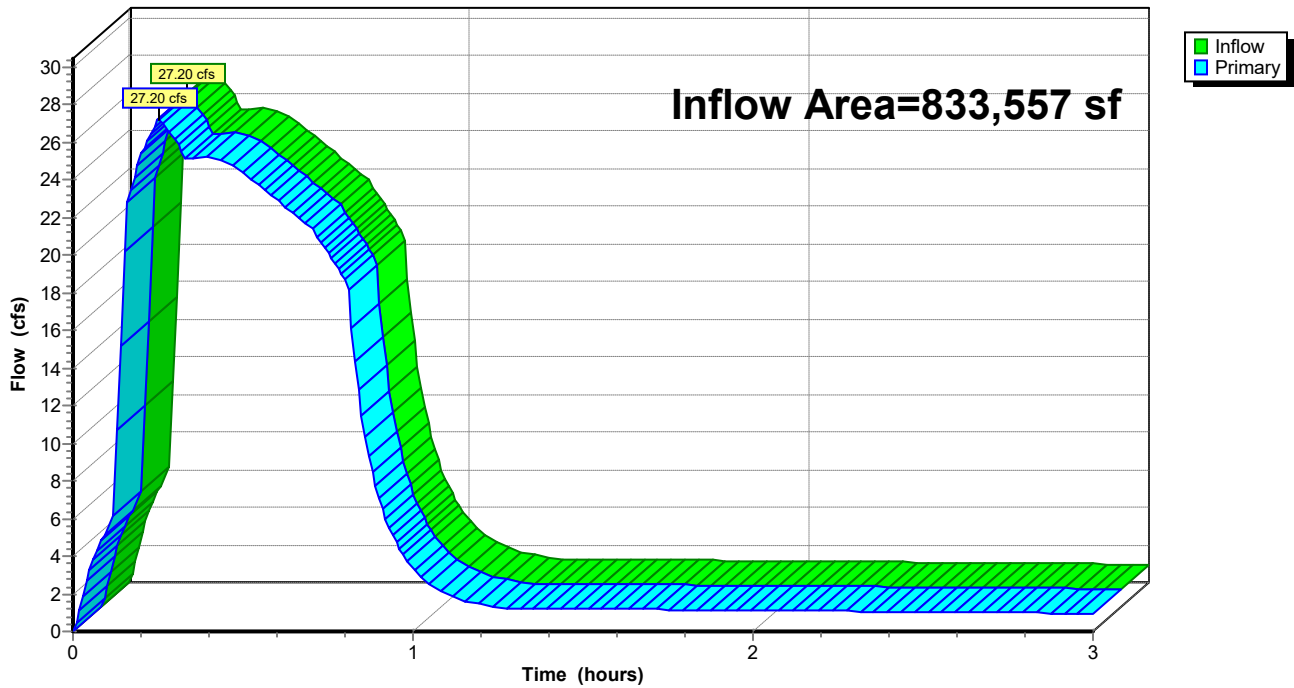
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 1.06" for 10-yr event  
Inflow = 27.20 cfs @ 0.25 hrs, Volume= 73,428 cf  
Primary = 27.20 cfs @ 0.25 hrs, Volume= 73,428 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post: Post Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Printed 9/19/2023

### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 16.17 cfs @ 0.09 hrs, Volume= 14,549 cf, Depth= 1.33"

Routed to Pond 1P : Regional Detention Basin

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=15 min, Inten=5.44 in/hr

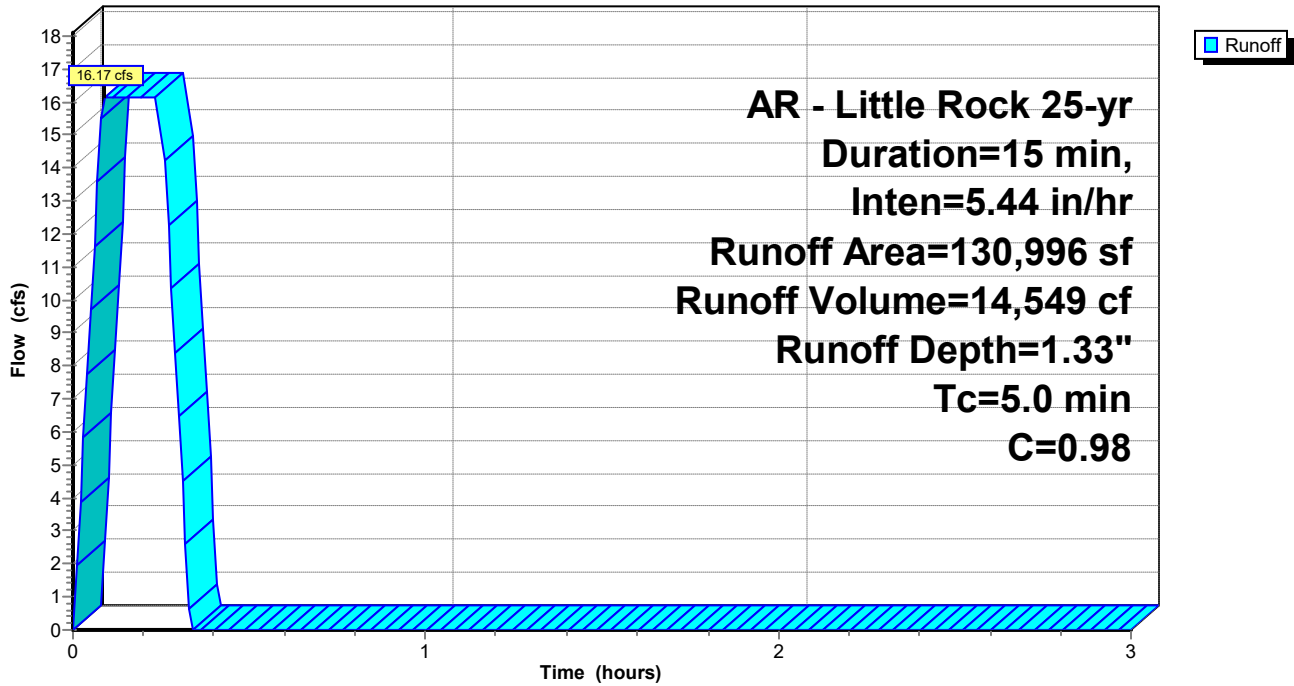
Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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**Summary for Subcatchment DB-B2: Drainage Basin B2**

Runoff = 12.77 cfs @ 0.09 hrs, Volume= 11,489 cf, Depth= 1.26"

Routed to Pond 1P : Regional Detention Basin

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

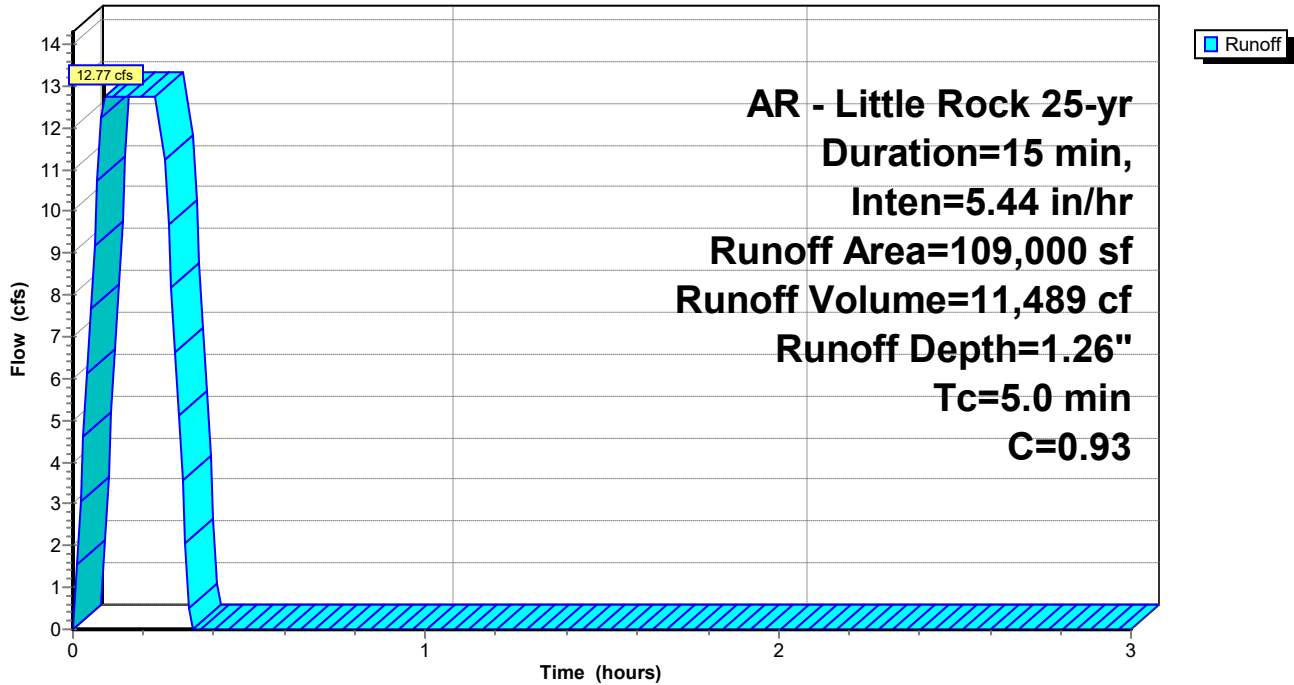
AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

**Subcatchment DB-B2: Drainage Basin B2**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 64.97 cfs @ 0.25 hrs, Volume= 58,472 cf, Depth= 1.26"

Routed to Pond 1P : Regional Detention Basin

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

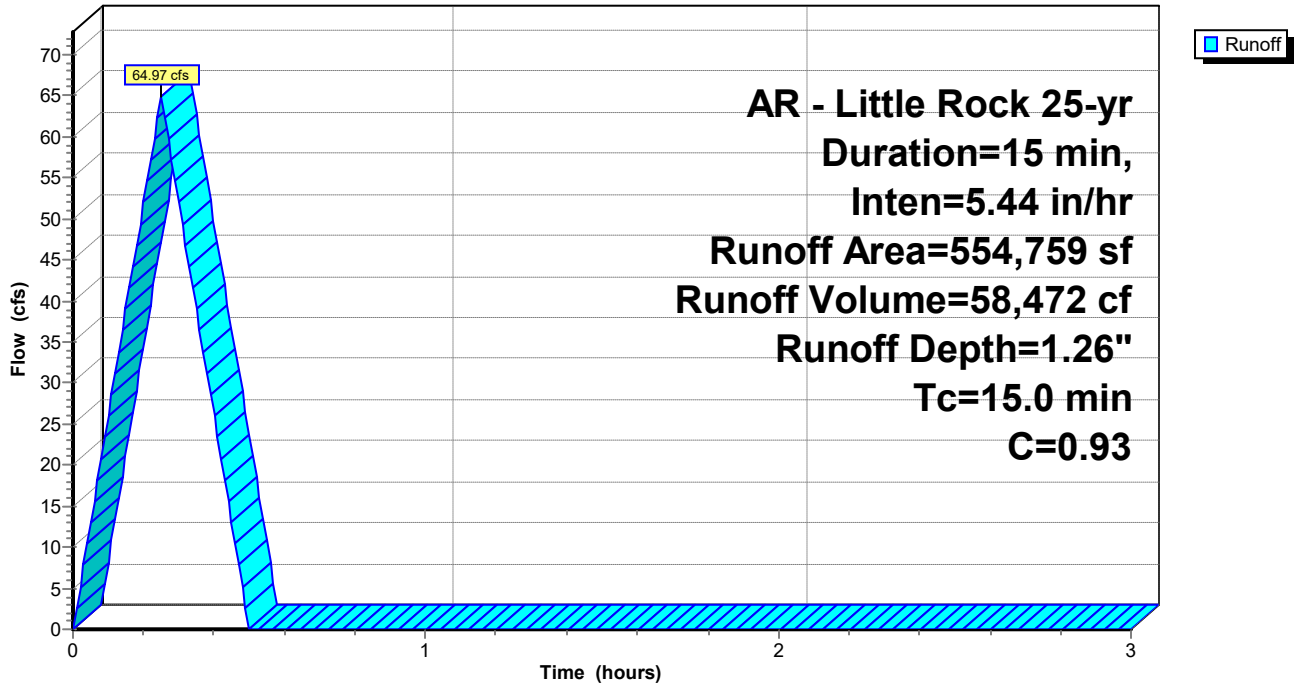
AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 4.54 cfs @ 0.09 hrs, Volume= 4,090 cf, Depth= 1.26"

Routed to Link Post : Post Development

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

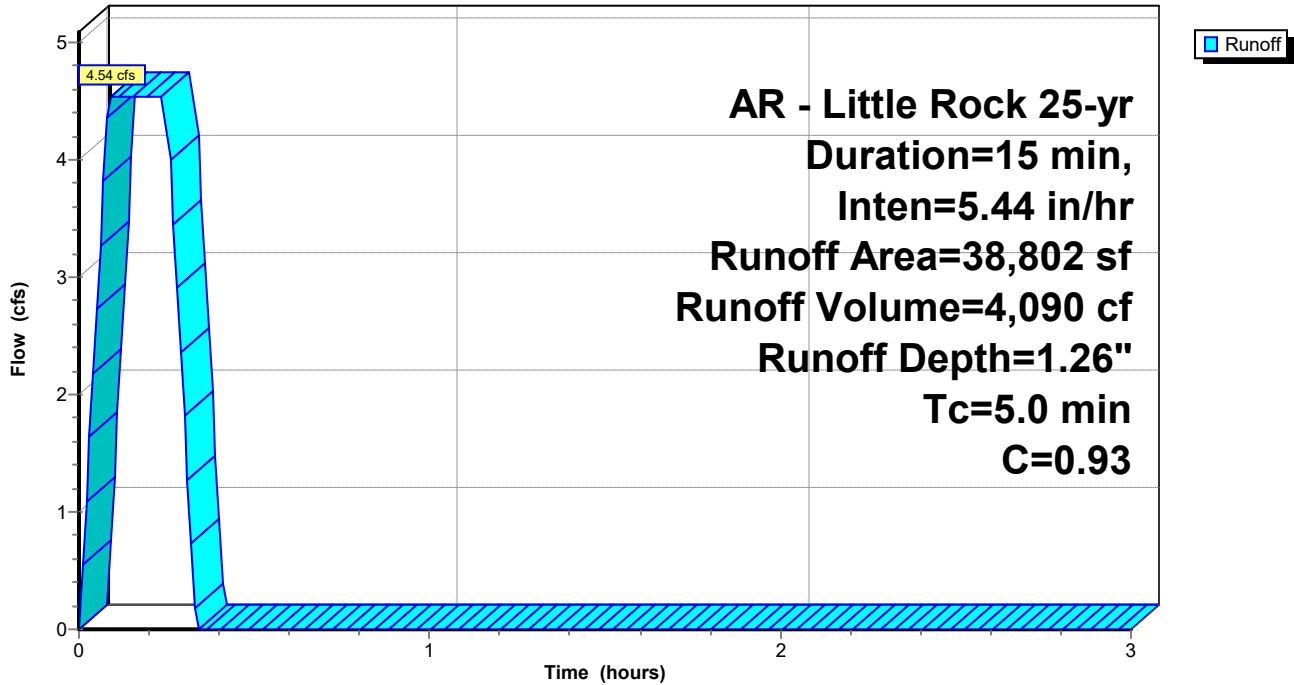
AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 1.28" for 25-yr event  
Inflow = 94.07 cfs @ 0.25 hrs, Volume= 84,509 cf  
Outflow = 27.02 cfs @ 0.40 hrs, Volume= 80,097 cf, Atten= 71%, Lag= 8.9 min  
Primary = 27.02 cfs @ 0.40 hrs, Volume= 80,097 cf  
Routed to Link Post : Post Development  
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf  
Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 386.19' @ 0.40 hrs Storage= 55,881 cf

Plug-Flow detention time= 28.0 min calculated for 79,831 cf (94% of inflow)  
Center-of-Mass det. time= 27.7 min ( 41.1 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=27.02 cfs @ 0.40 hrs HW=386.19' (Free Discharge)

↑ **1=RCP\_Round 24"** (Inlet Controls 27.02 cfs @ 8.60 fps)  
↑ **3=Sharp-Crested Rectangular Weir** (Passes < 154.31 cfs potential flow)  
↑ **4=Orifice/Grate** (Passes < 1.88 cfs potential flow)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=382.00' (Free Discharge)

↑ **2=Sharp-Crested Rectangular Weir** ( Controls 0.00 cfs)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

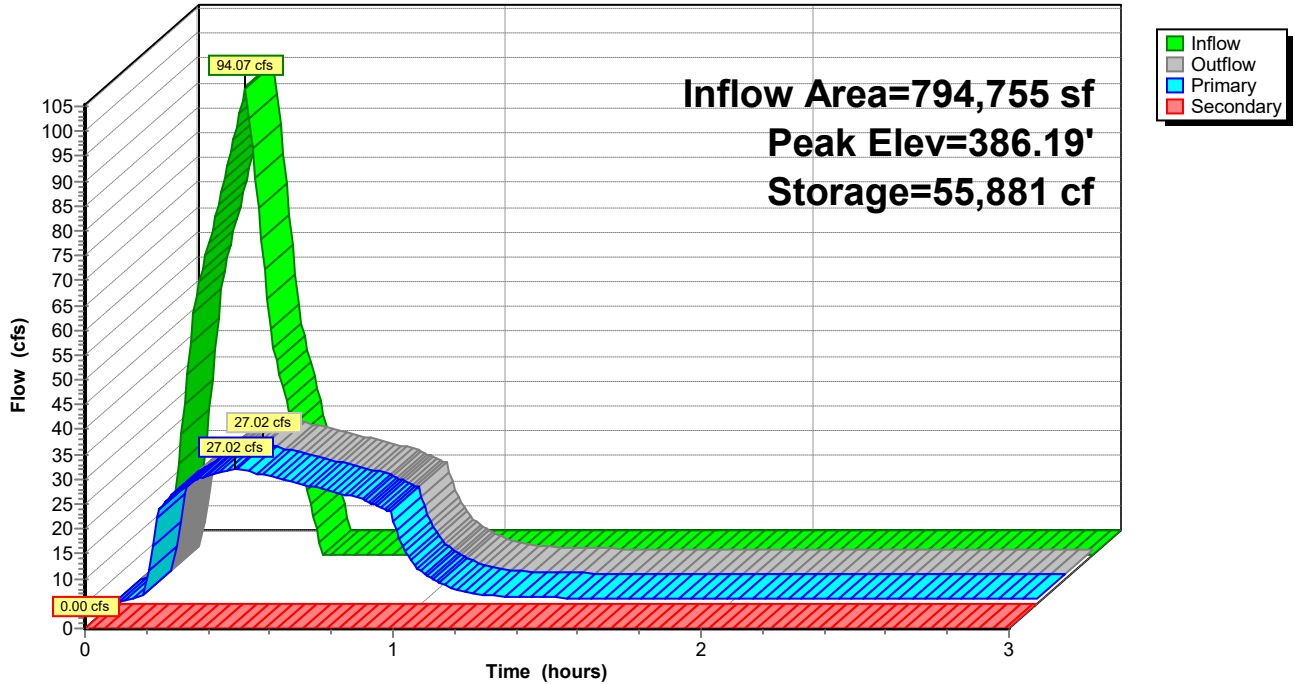
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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Printed 9/19/2023

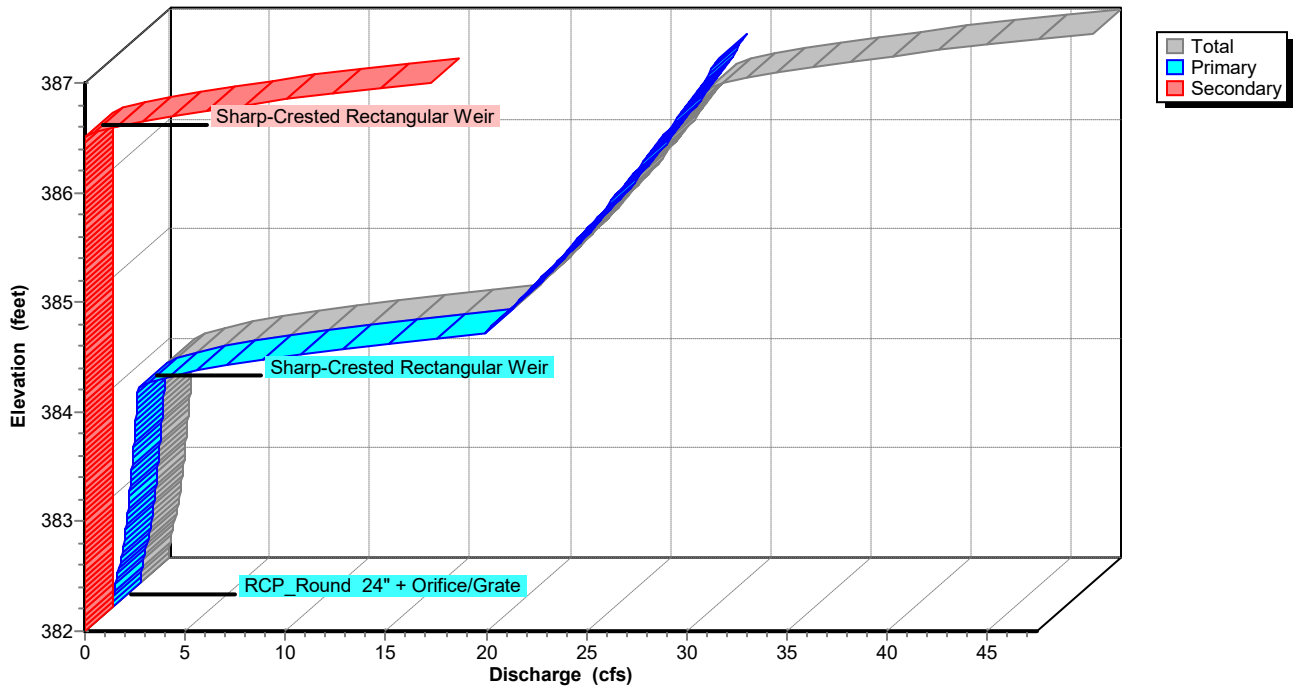
## Pond 1P: Regional Detention Basin

### Hydrograph



## Pond 1P: Regional Detention Basin

### Stage-Discharge





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

Printed 9/19/2023

**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
383.60	7,301	386.20	55,982
383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		

# Summerwood Gym 3

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AR - Little Rock 25-yr Duration=15 min, Inten=5.44 in/hr

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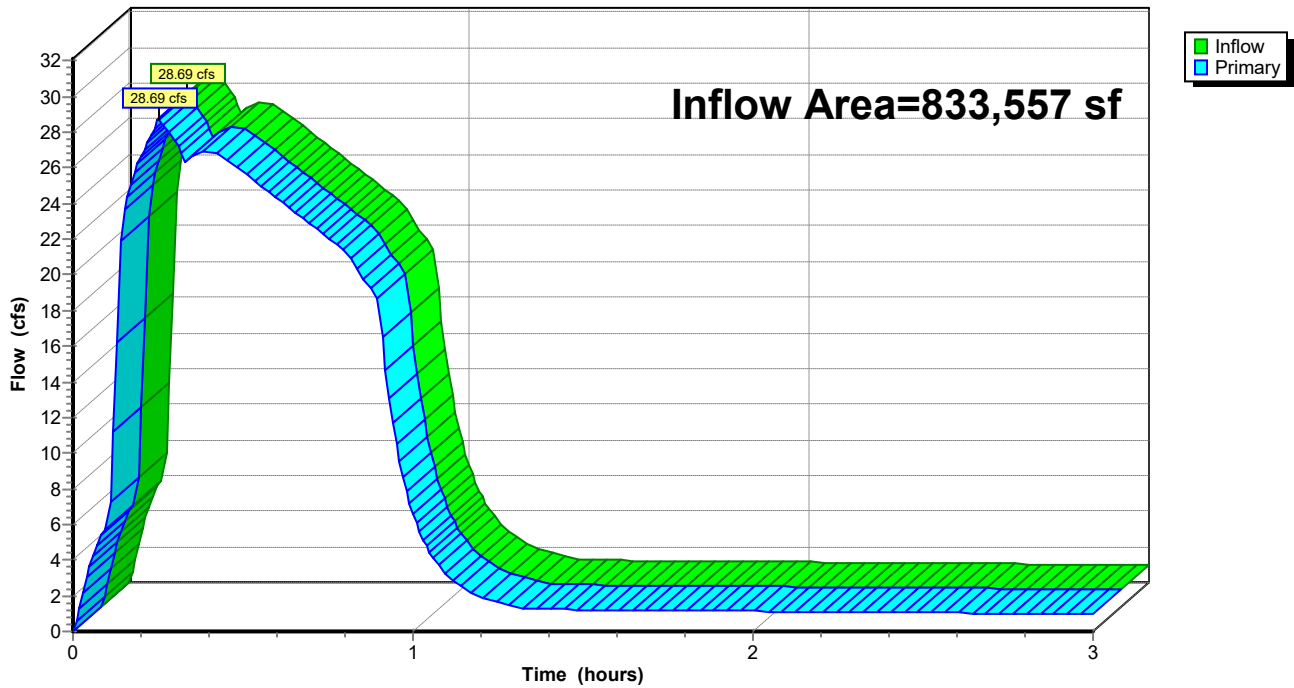
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 1.21" for 25-yr event  
Inflow = 28.69 cfs @ 0.25 hrs, Volume= 84,187 cf  
Primary = 28.69 cfs @ 0.25 hrs, Volume= 84,187 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post: Post Development

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 17.83 cfs @ 0.09 hrs, Volume= 16,047 cf, Depth= 1.47"

Routed to Pond 1P : Regional Detention Basin

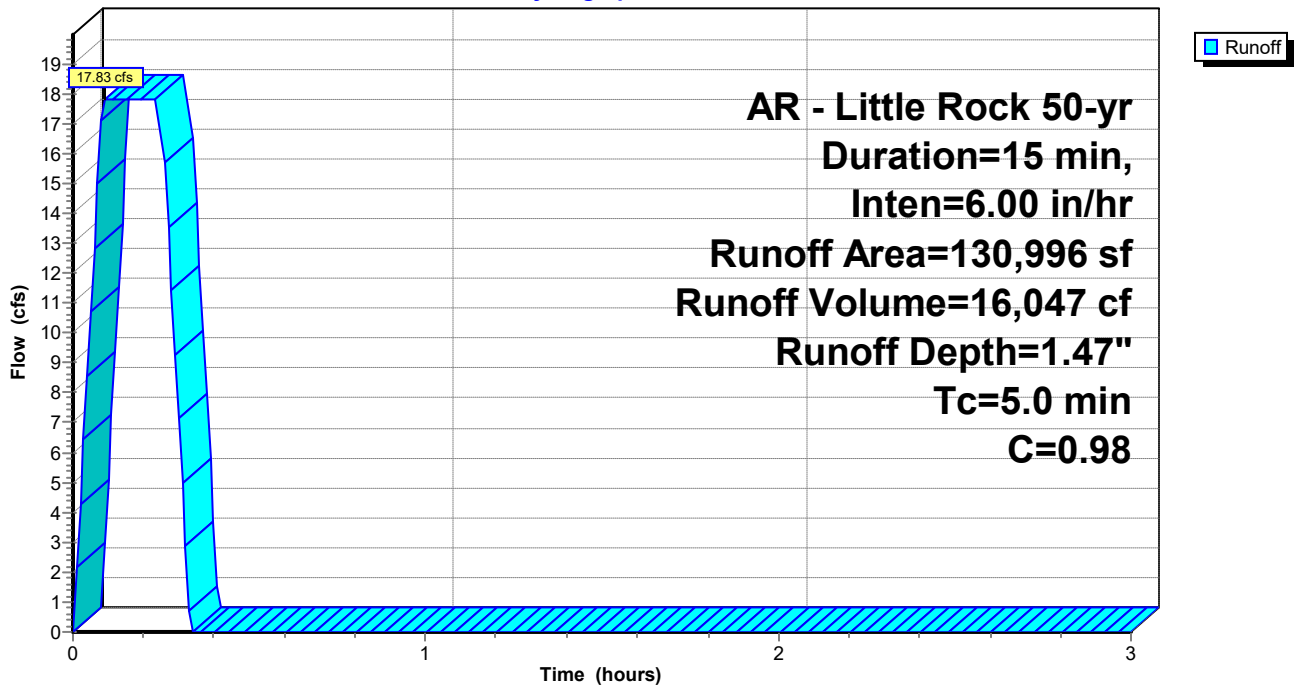
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

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### Summary for Subcatchment DB-B2: Drainage Basin B2

Runoff = 14.08 cfs @ 0.09 hrs, Volume= 12,671 cf, Depth= 1.40"

Routed to Pond 1P : Regional Detention Basin

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

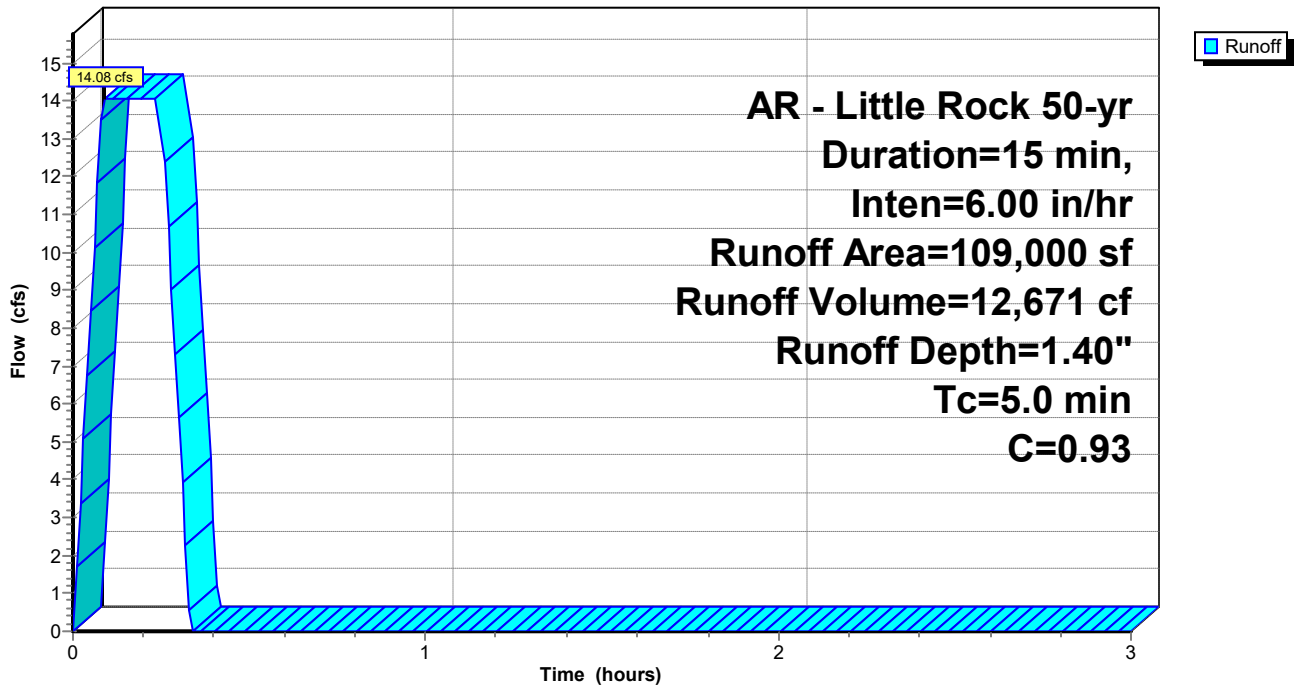
AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

### Subcatchment DB-B2: Drainage Basin B2

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 71.66 cfs @ 0.25 hrs, Volume= 64,491 cf, Depth= 1.40"

Routed to Pond 1P : Regional Detention Basin

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

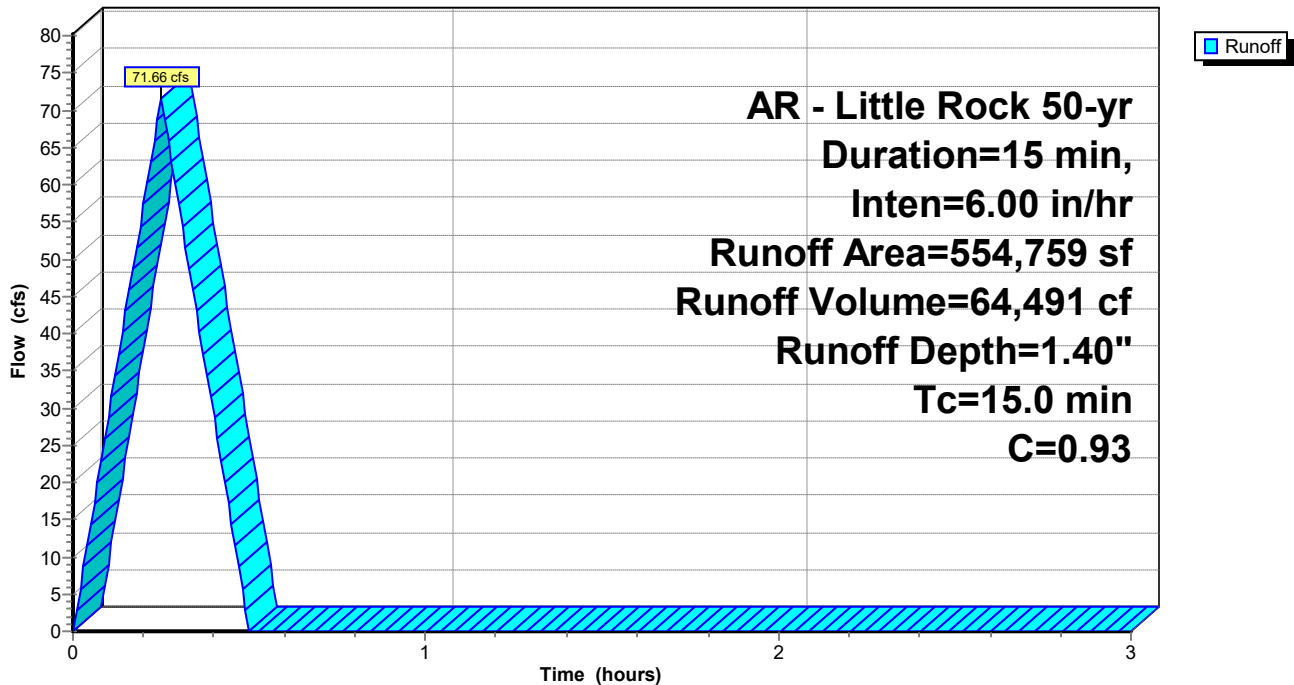
AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Printed 9/19/2023

**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 5.01 cfs @ 0.09 hrs, Volume= 4,511 cf, Depth= 1.40"  
 Routed to Link Post : Post Development

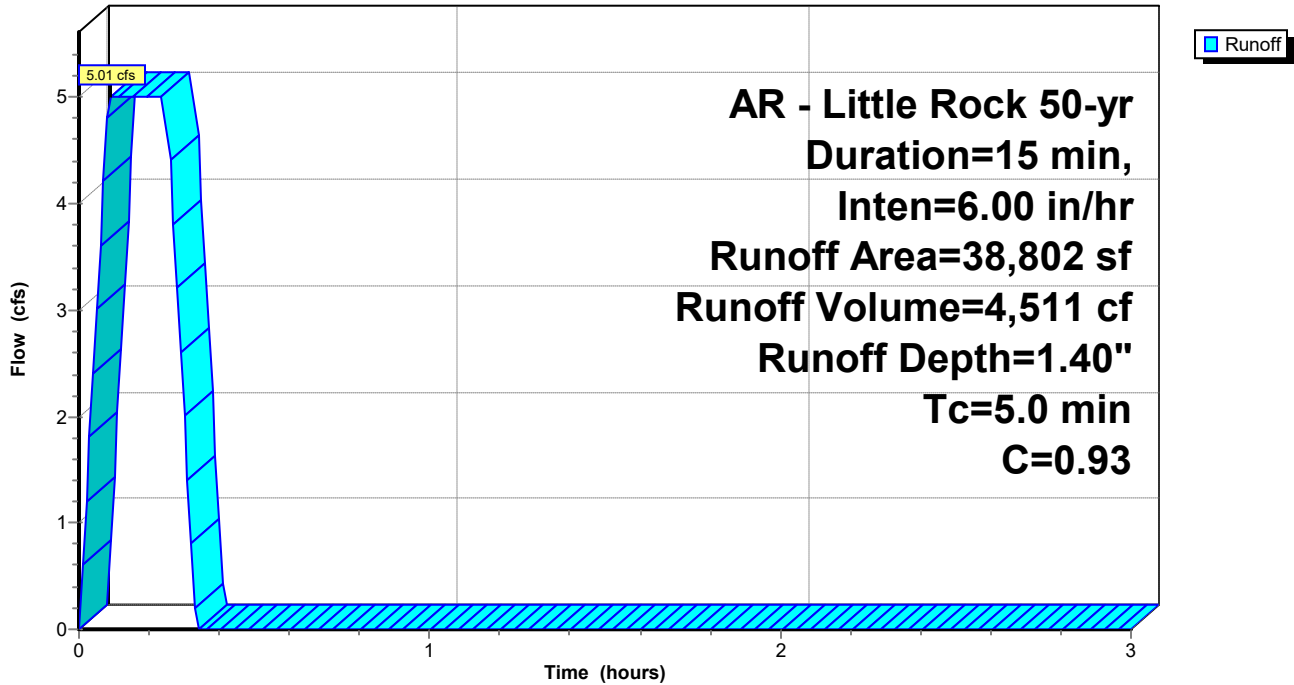
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 1.41" for 50-yr event  
Inflow = 103.76 cfs @ 0.25 hrs, Volume= 93,209 cf  
Outflow = 33.94 cfs @ 0.38 hrs, Volume= 88,612 cf, Atten= 67%, Lag= 8.0 min  
Primary = 29.14 cfs @ 0.38 hrs, Volume= 87,226 cf  
Routed to Link Post : Post Development  
Secondary = 4.79 cfs @ 0.38 hrs, Volume= 1,386 cf  
Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 386.71' @ 0.38 hrs Storage= 61,662 cf

Plug-Flow detention time= 28.3 min calculated for 88,612 cf (95% of inflow)  
Center-of-Mass det. time= 27.6 min ( 41.1 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=29.14 cfs @ 0.38 hrs HW=386.71' (Free Discharge)

↑ **1=RCP\_Round 24"** (Inlet Controls 29.14 cfs @ 9.28 fps)

↑ **3=Sharp-Crested Rectangular Weir** (Passes < 211.06 cfs potential flow)

↑ **4=Orifice/Grate** (Passes < 2.00 cfs potential flow)

**Secondary OutFlow** Max=4.75 cfs @ 0.38 hrs HW=386.71' (Free Discharge)

↑ **2=Sharp-Crested Rectangular Weir** (Weir Controls 4.75 cfs @ 1.50 fps)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

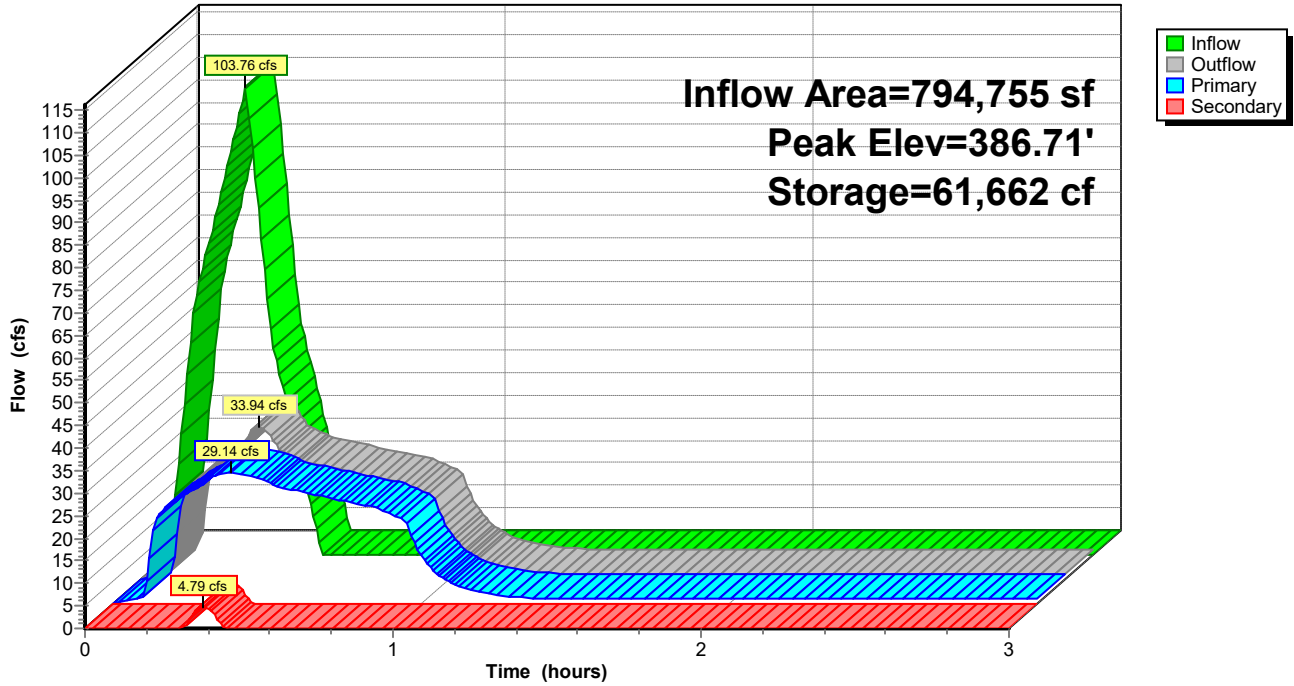
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AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Printed 9/19/2023

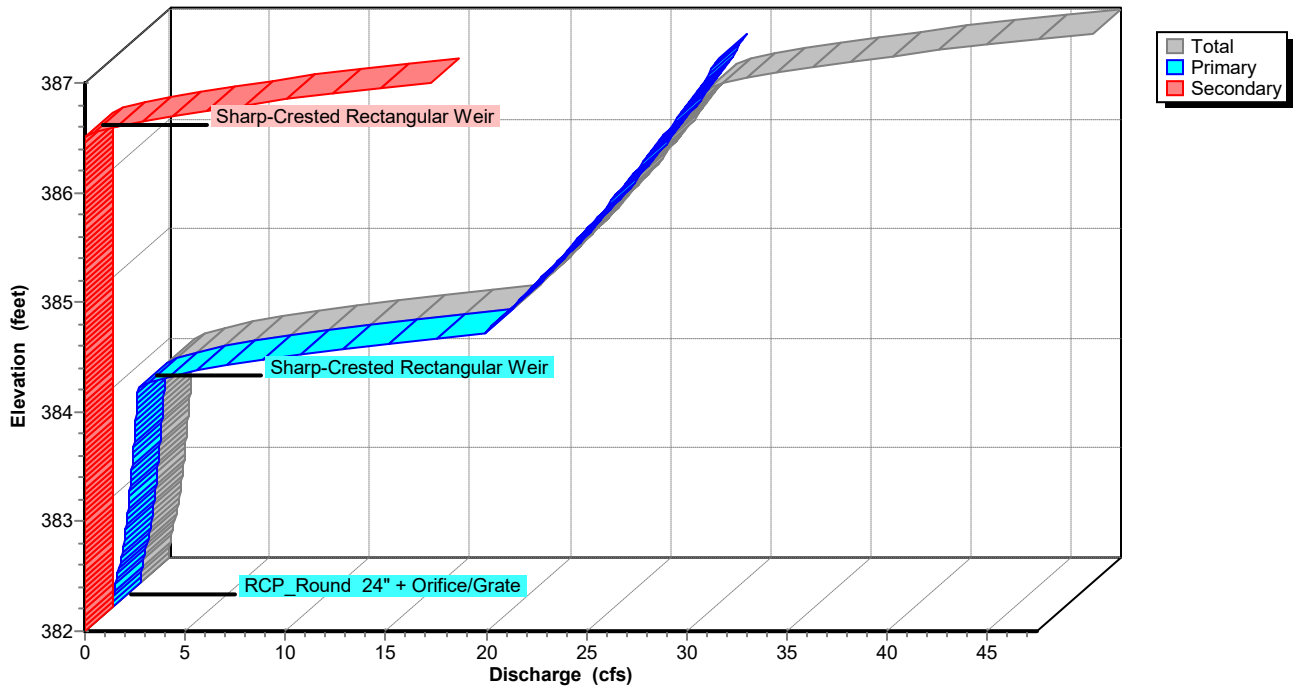
## Pond 1P: Regional Detention Basin

Hydrograph



## Pond 1P: Regional Detention Basin

Stage-Discharge





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

HydroCAD® 10.20-2f s/n 12520 © 2022 HydroCAD Software Solutions LLC

AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Printed 9/19/2023

**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
383.60	7,301	386.20	55,982
383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		

# Summerwood Gym 3

AR - Little Rock 50-yr Duration=15 min, Inten=6.00 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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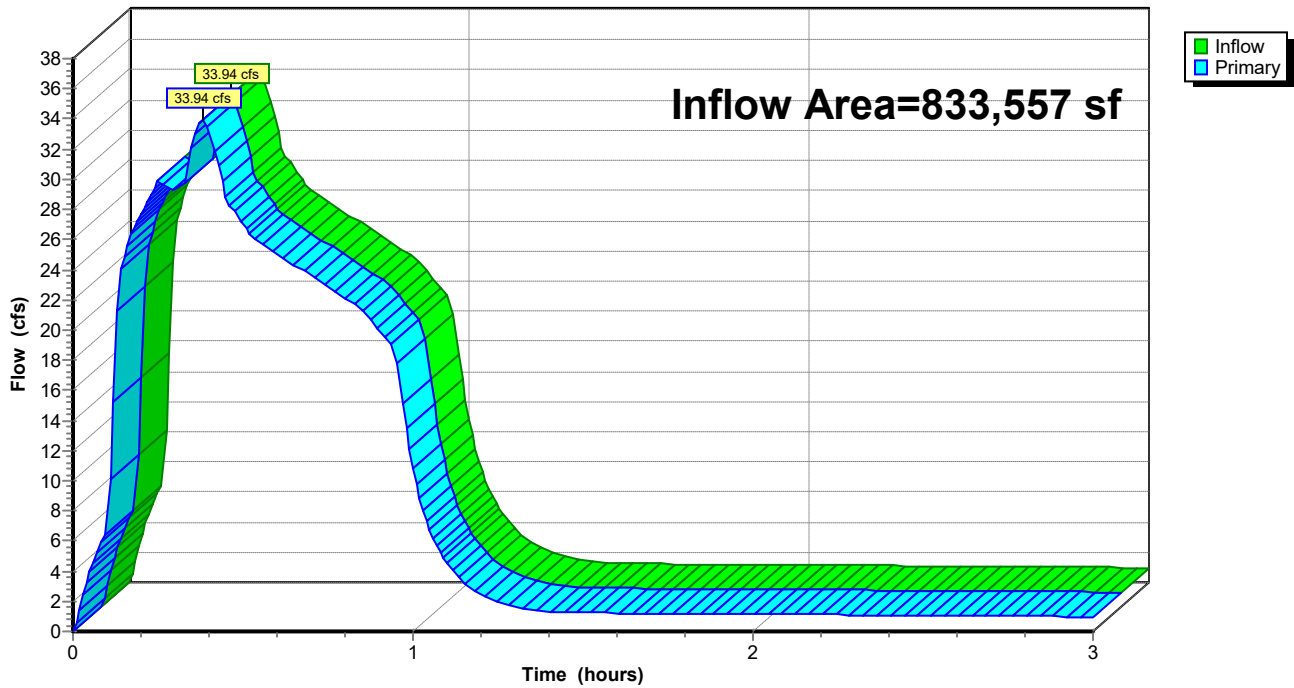
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 1.34" for 50-yr event  
Inflow = 33.94 cfs @ 0.38 hrs, Volume= 93,123 cf  
Primary = 33.94 cfs @ 0.38 hrs, Volume= 93,123 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post: Post Development

Hydrograph



### Summerwood Gym 3

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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### Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 19.38 cfs @ 0.09 hrs, Volume= 17,438 cf, Depth= 1.60"

Routed to Pond 1P : Regional Detention Basin

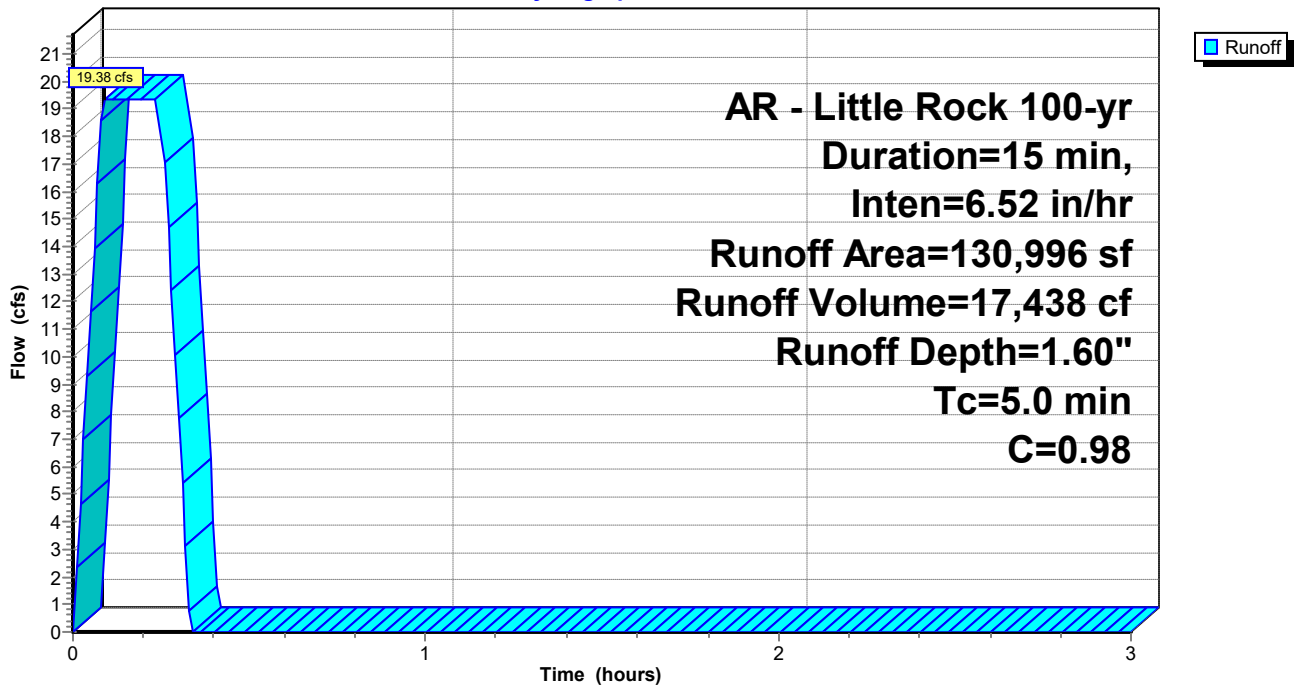
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Area (sf)	C	Description
130,996	0.98	
130,996		100.00% Impervious Area

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

### Subcatchment DB-B1: Drainage Basin B1

Hydrograph



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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**Summary for Subcatchment DB-B2: Drainage Basin B2**

Runoff = 15.30 cfs @ 0.09 hrs, Volume= 13,769 cf, Depth= 1.52"

Routed to Pond 1P : Regional Detention Basin

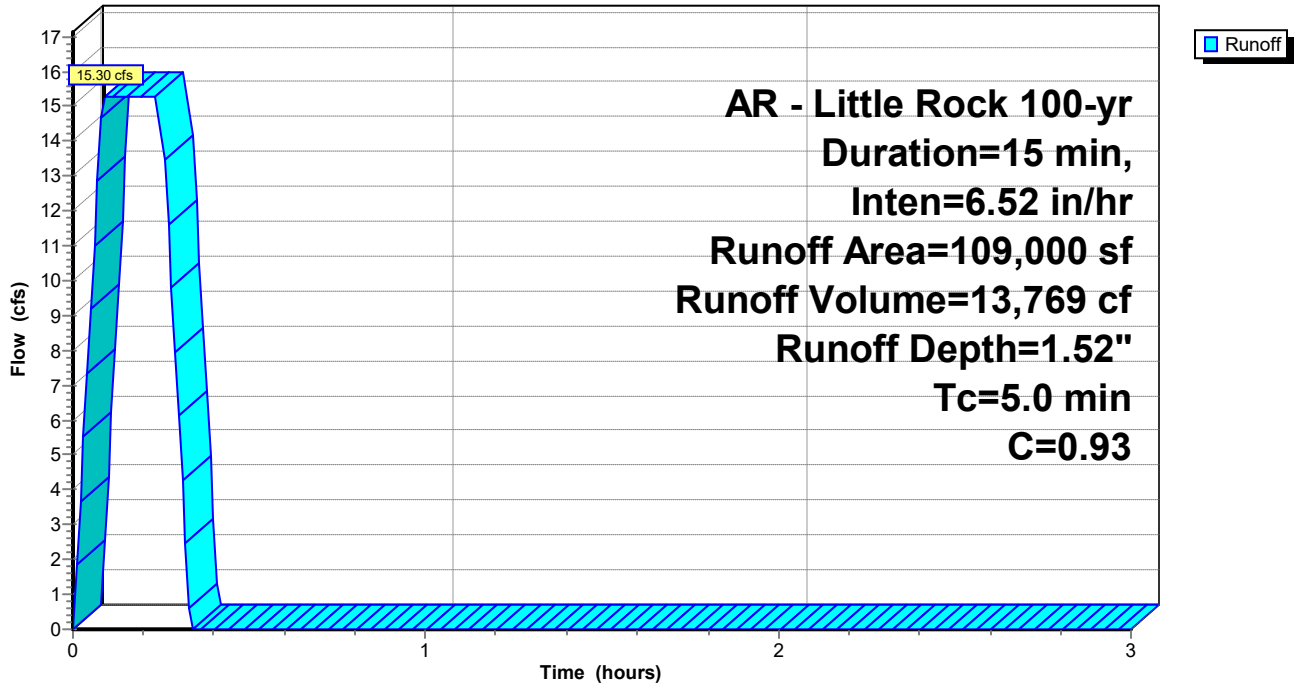
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Area (sf)	C	Description
87,200	0.98	
21,800	0.74	
109,000	0.93	Weighted Average
21,800		20.00% Pervious Area
87,200		80.00% Impervious Area

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

**Subcatchment DB-B2: Drainage Basin B2**

Hydrograph



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

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**Summary for Subcatchment DB-B3: Drainage Basin B3**

Runoff = 77.87 cfs @ 0.25 hrs, Volume= 70,080 cf, Depth= 1.52"

Routed to Pond 1P : Regional Detention Basin

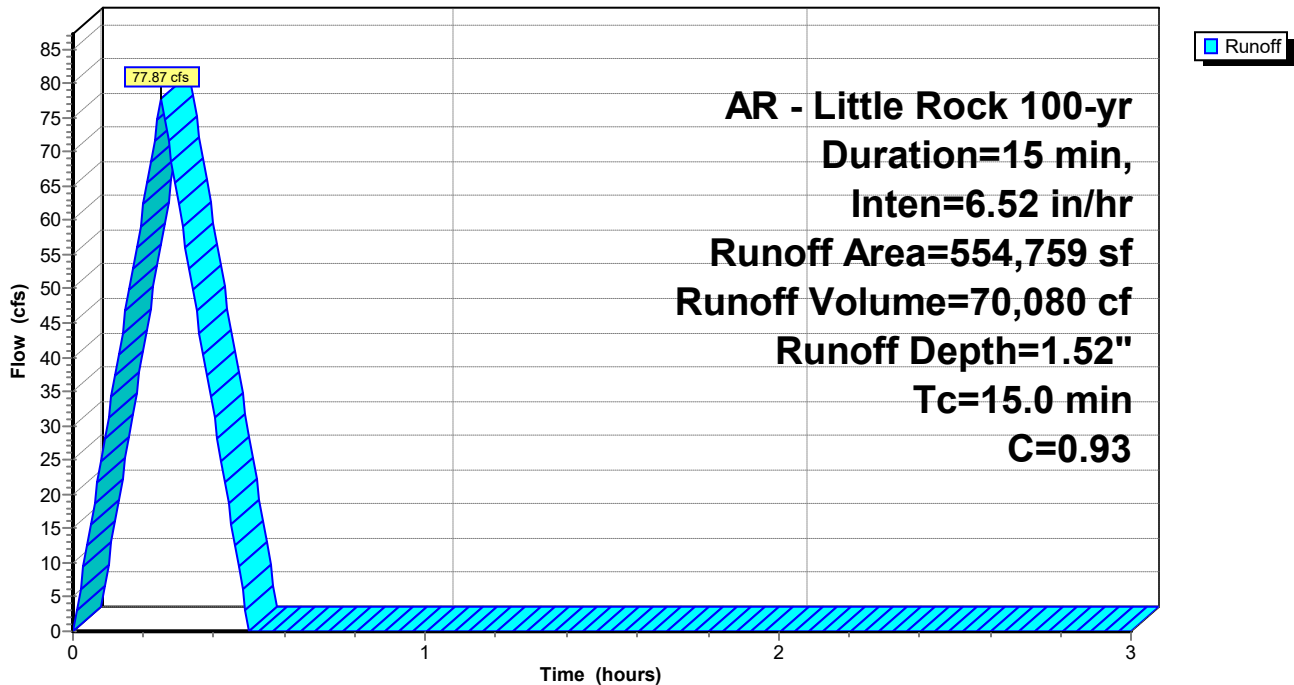
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Area (sf)	C	Description
443,807	0.98	
110,952	0.74	
554,759	0.93	Weighted Average
110,952		20.00% Pervious Area
443,807		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0					Direct Entry,

**Subcatchment DB-B3: Drainage Basin B3**

Hydrograph



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

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**Summary for Subcatchment DB-B4: Drainage Basin B4**

Runoff = 5.45 cfs @ 0.09 hrs, Volume= 4,902 cf, Depth= 1.52"  
 Routed to Link Post : Post Development

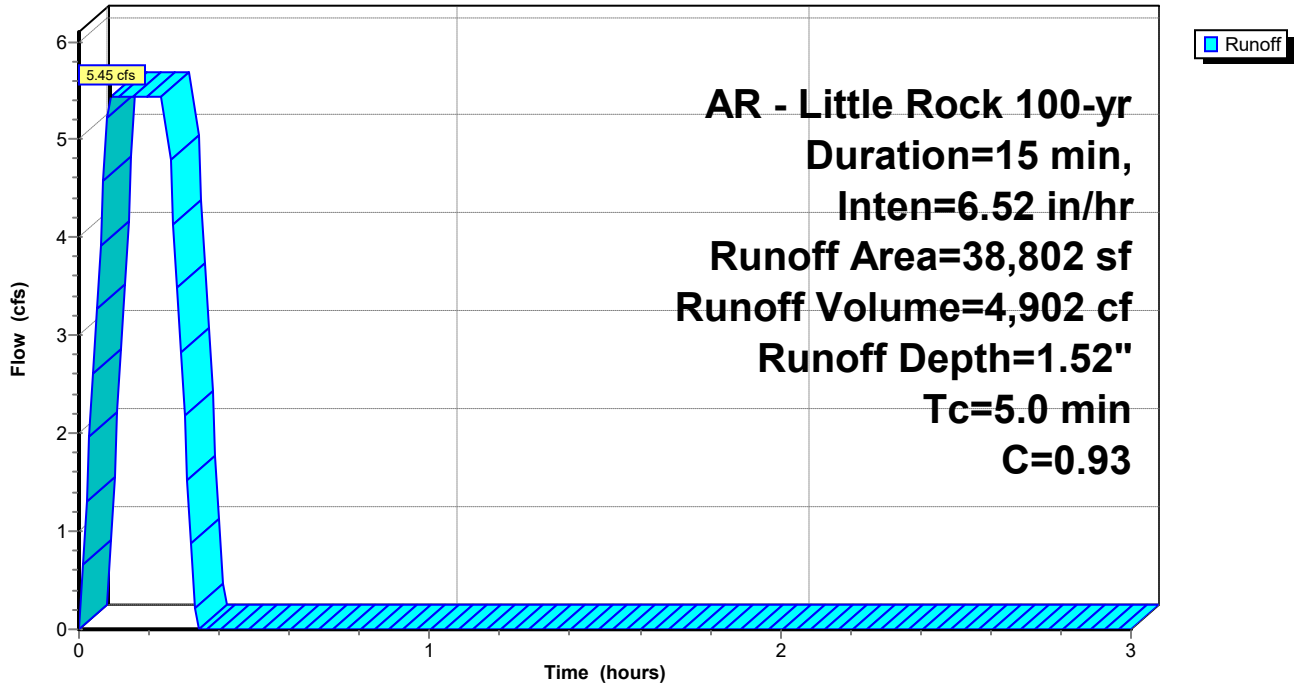
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Area (sf)	C	Description
31,042	0.98	
7,760	0.74	
38,802	0.93	Weighted Average
7,760		20.00% Pervious Area
31,042		80.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, 15

**Subcatchment DB-B4: Drainage Basin B4**

Hydrograph



### Summerwood Gym 3

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

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### Summary for Pond 1P: Regional Detention Basin

Inflow Area = 794,755 sf, 83.30% Impervious, Inflow Depth = 1.53" for 100-yr event  
Inflow = 112.75 cfs @ 0.25 hrs, Volume= 101,287 cf  
Outflow = 46.71 cfs @ 0.35 hrs, Volume= 96,644 cf, Atten= 59%, Lag= 6.1 min  
Primary = 30.20 cfs @ 0.35 hrs, Volume= 90,003 cf  
Routed to Link Post : Post Development  
Secondary = 16.51 cfs @ 0.35 hrs, Volume= 6,641 cf  
Routed to Link Post : Post Development

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 386.99' @ 0.35 hrs Storage= 64,697 cf

Plug-Flow detention time= 26.6 min calculated for 96,322 cf (95% of inflow)  
Center-of-Mass det. time= 26.4 min ( 39.9 - 13.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	382.00'	64,856 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Cum.Store (cubic-feet)
382.00	0
383.00	1,686
384.00	11,045
385.00	25,746
386.00	53,764
387.00	64,856

Device	Routing	Invert	Outlet Devices
#1	Primary	382.00'	<b>24.0" Round RCP_Round 24"</b> L= 20.0' RCP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 382.00' / 381.00' S= 0.0500 '/ Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 3.14 sf
#2	Secondary	386.50'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#3	Device 1	384.00'	<b>15.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#4	Device 1	382.00'	<b>6.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=30.20 cfs @ 0.35 hrs HW=386.99' (Free Discharge)

↑ **1=RCP\_Round 24"** (Inlet Controls 30.20 cfs @ 9.61 fps)  
↑ **3=Sharp-Crested Rectangular Weir** (Passes < 242.94 cfs potential flow)  
↑ **4=Orifice/Grate** (Passes < 2.06 cfs potential flow)

**Secondary OutFlow** Max=16.48 cfs @ 0.35 hrs HW=386.99' (Free Discharge)

↑ **2=Sharp-Crested Rectangular Weir** (Weir Controls 16.48 cfs @ 2.28 fps)



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

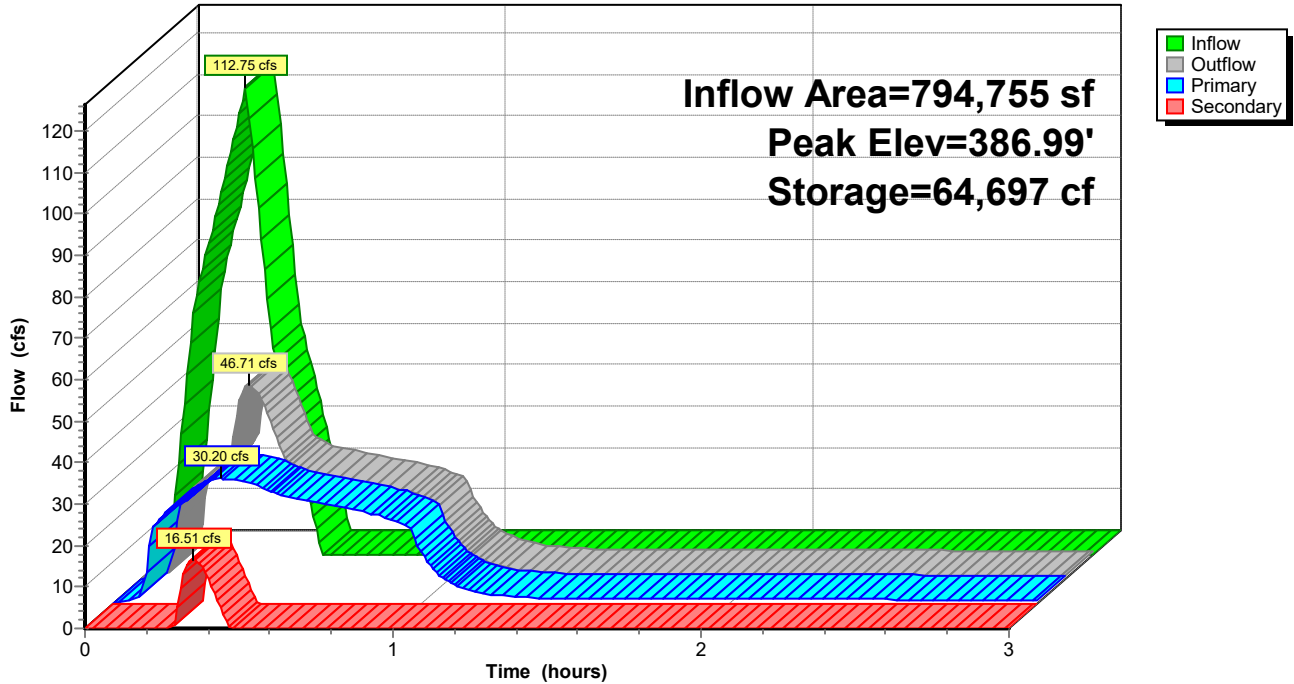
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AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Printed 9/19/2023

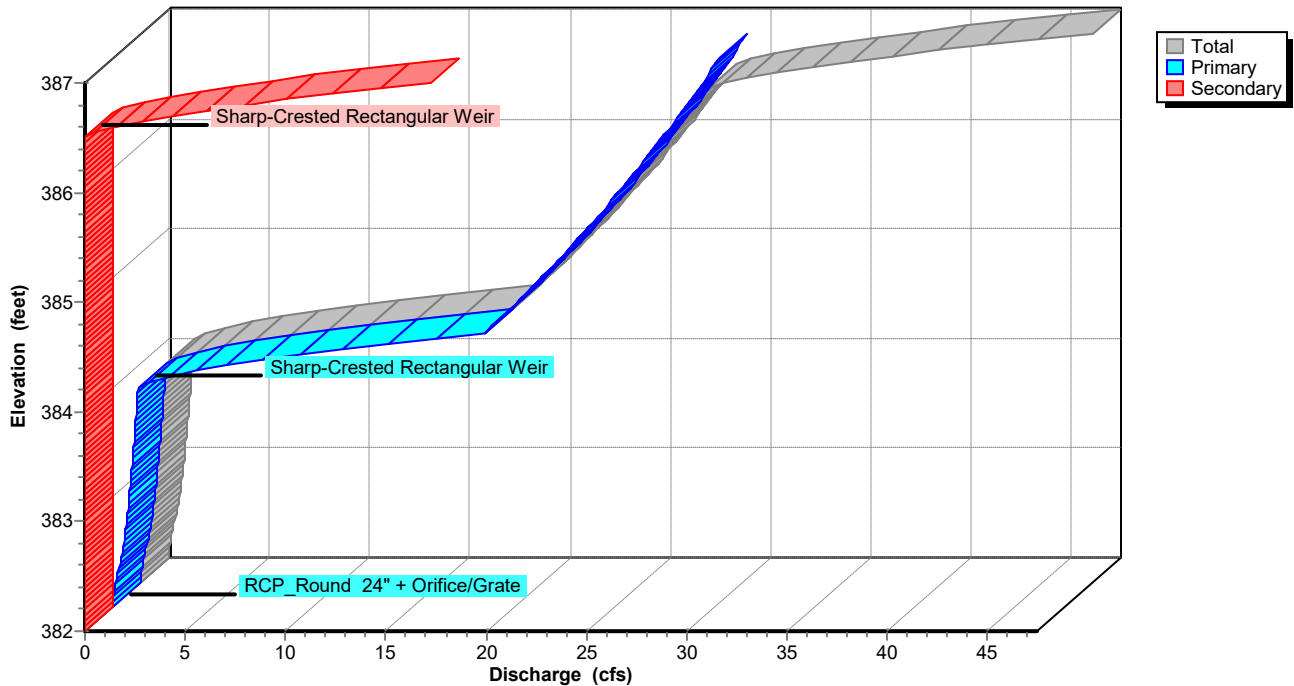
## Pond 1P: Regional Detention Basin

### Hydrograph



## Pond 1P: Regional Detention Basin

### Stage-Discharge



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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**Stage-Area-Storage for Pond 1P: Regional Detention Basin**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
382.00	0	384.60	19,866
382.05	84	384.65	20,601
382.10	169	384.70	21,336
382.15	253	384.75	22,071
382.20	337	384.80	22,806
382.25	422	384.85	23,541
382.30	506	384.90	24,276
382.35	590	384.95	25,011
382.40	674	385.00	25,746
382.45	759	385.05	27,147
382.50	843	385.10	28,548
382.55	927	385.15	29,949
382.60	1,012	385.20	31,350
382.65	1,096	385.25	32,751
382.70	1,180	385.30	34,151
382.75	1,265	385.35	35,552
382.80	1,349	385.40	36,953
382.85	1,433	385.45	38,354
382.90	1,517	385.50	39,755
382.95	1,602	385.55	41,156
383.00	1,686	385.60	42,557
383.05	2,154	385.65	43,958
383.10	2,622	385.70	45,359
383.15	3,090	385.75	46,760
383.20	3,558	385.80	48,160
383.25	4,026	385.85	49,561
383.30	4,494	385.90	50,962
383.35	4,962	385.95	52,363
383.40	5,430	386.00	53,764
383.45	5,898	386.05	54,319
383.50	6,366	386.10	54,873
383.55	6,833	386.15	55,428
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383.65	7,769	386.25	56,537
383.70	8,237	386.30	57,092
383.75	8,705	386.35	57,646
383.80	9,173	386.40	58,201
383.85	9,641	386.45	58,755
383.90	10,109	386.50	59,310
383.95	10,577	386.55	59,865
384.00	11,045	386.60	60,419
384.05	11,780	386.65	60,974
384.10	12,515	386.70	61,528
384.15	13,250	386.75	62,083
384.20	13,985	386.80	62,638
384.25	14,720	386.85	63,192
384.30	15,455	386.90	63,747
384.35	16,190	386.95	64,301
384.40	16,925	387.00	<b>64,856</b>
384.45	17,660		
384.50	18,396		
384.55	19,131		

# Summerwood Gym 3

AR - Little Rock 100-yr Duration=15 min, Inten=6.52 in/hr

Prepared by Phillip Lewis Engineering

Printed 9/19/2023

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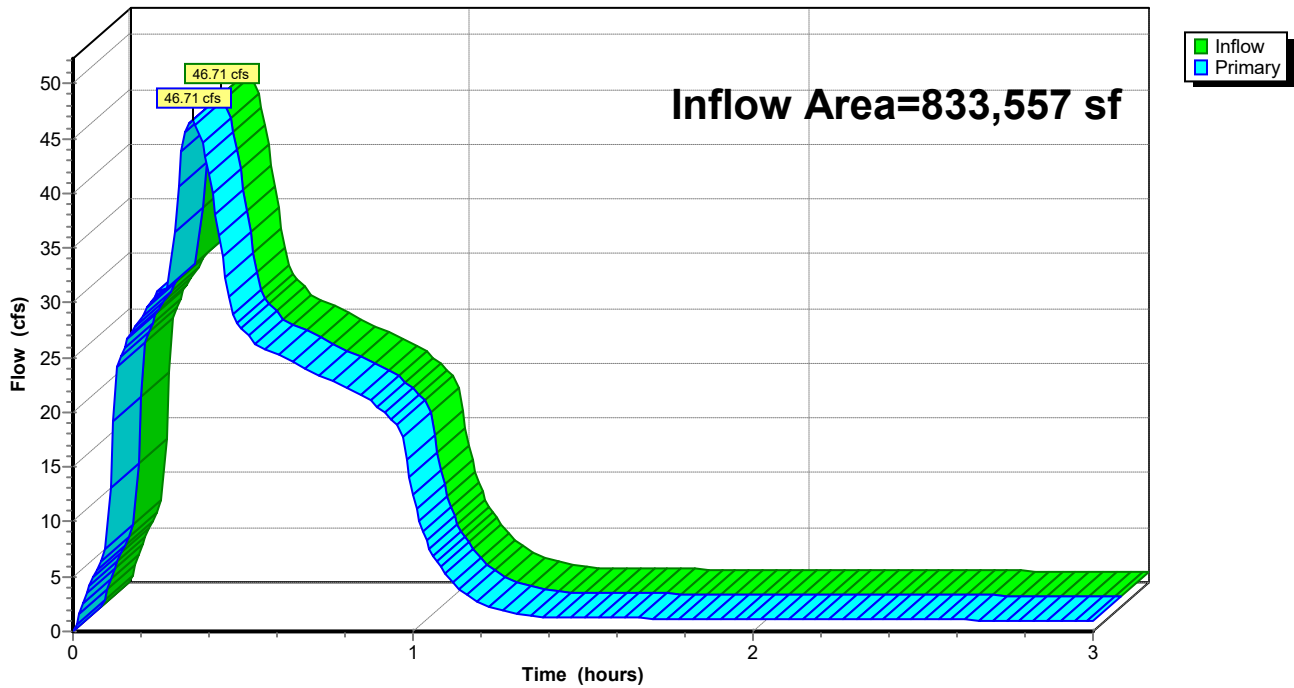
## Summary for Link Post: Post Development

Inflow Area = 833,557 sf, 83.14% Impervious, Inflow Depth > 1.46" for 100-yr event  
Inflow = 46.71 cfs @ 0.35 hrs, Volume= 101,545 cf  
Primary = 46.71 cfs @ 0.35 hrs, Volume= 101,545 cf, Atten= 0%, Lag= 0.0 min

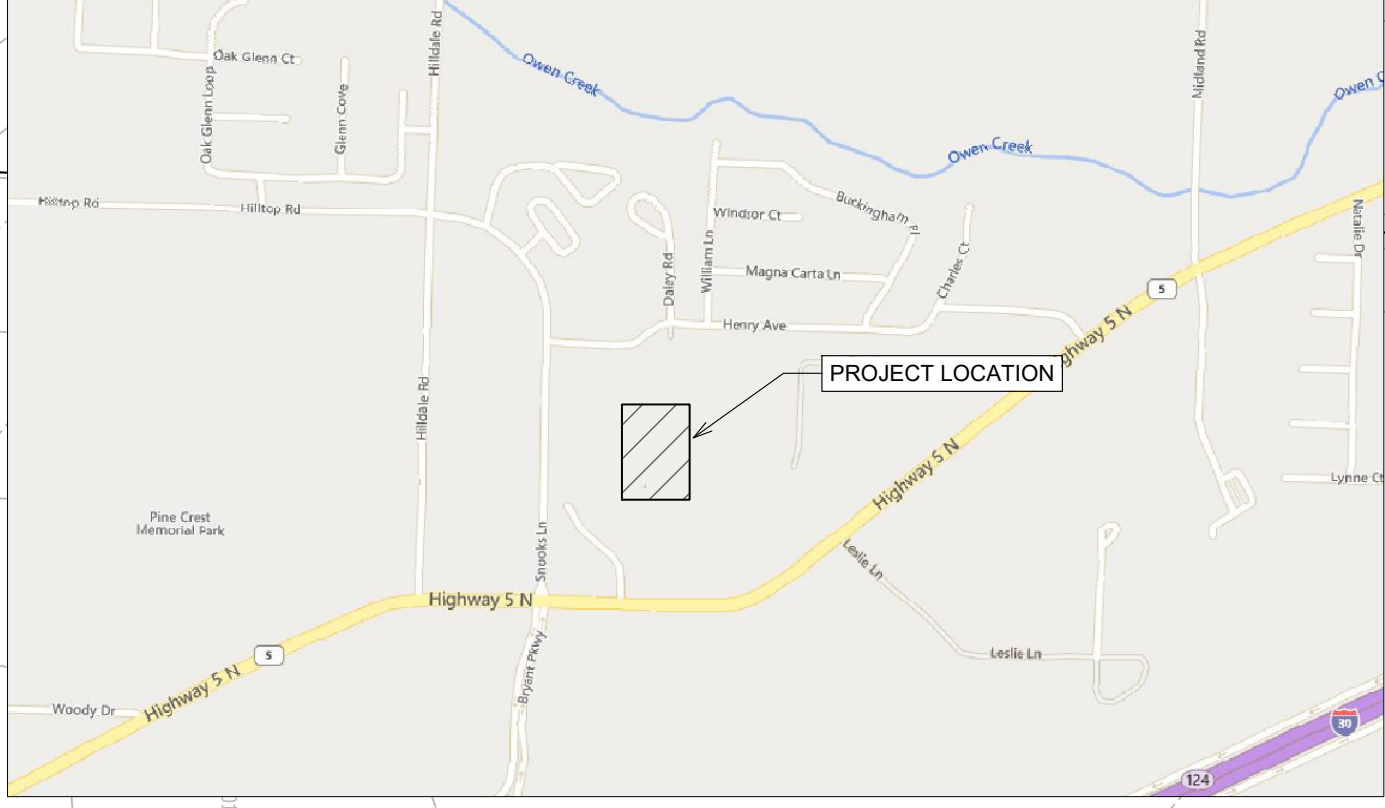
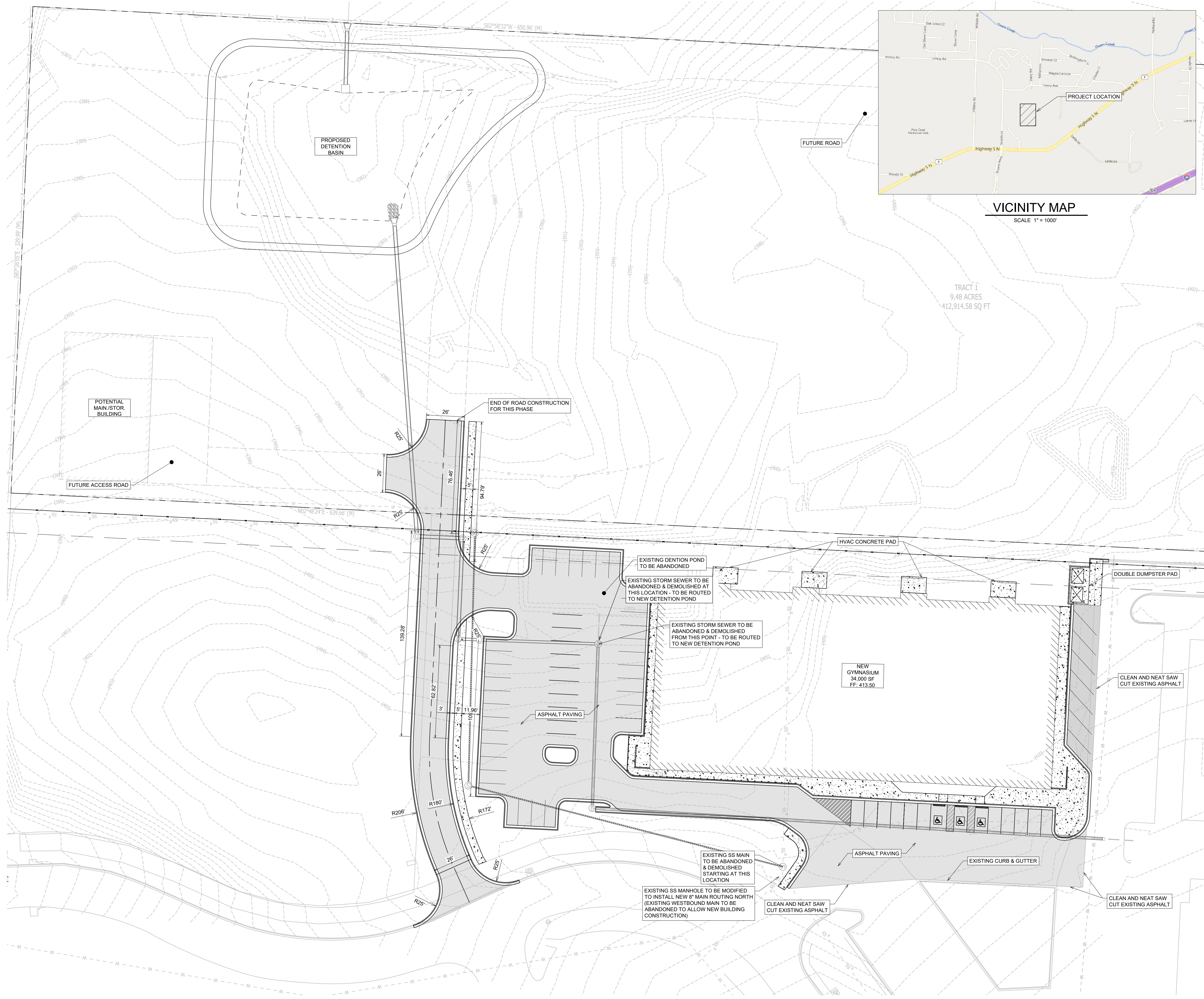
Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

## Link Post: Post Development

Hydrograph







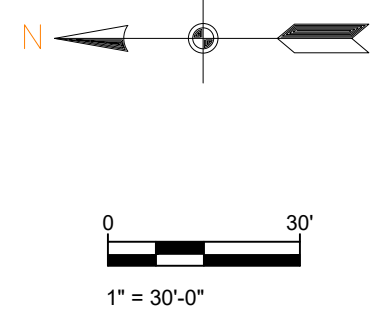
**VICINITY MAP**  
SCALE 1" = 1000'

**GENERAL CONSTRUCTION NOTES**

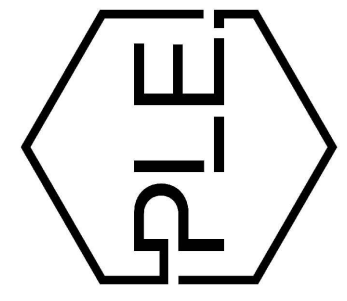
- A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.  
THE DUTY OF BRYANT UTILITIES TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.
- D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT UTILITIES. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.
- H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.
- J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

**OVERALL SITE PLAN**

SCALE 1" = 30'



**PHILLIP LEWIS ENGINEERING, INC.**  
Structural + Civil Consultants  
23620 Interstate 30 | Bryant, Arkansas  
PH: 501-350-9840



REVISION:

**SUMMERWOOD SPORTS GYMNASIUM #3**  
7817 Hwy 5 N  
Bryant, Arkansas

**PRELIMINARY NOT FOR CONSTRUCTION**

PROJECT NUMBER:

SHEET ISSUE DATE:  
09/20/2023

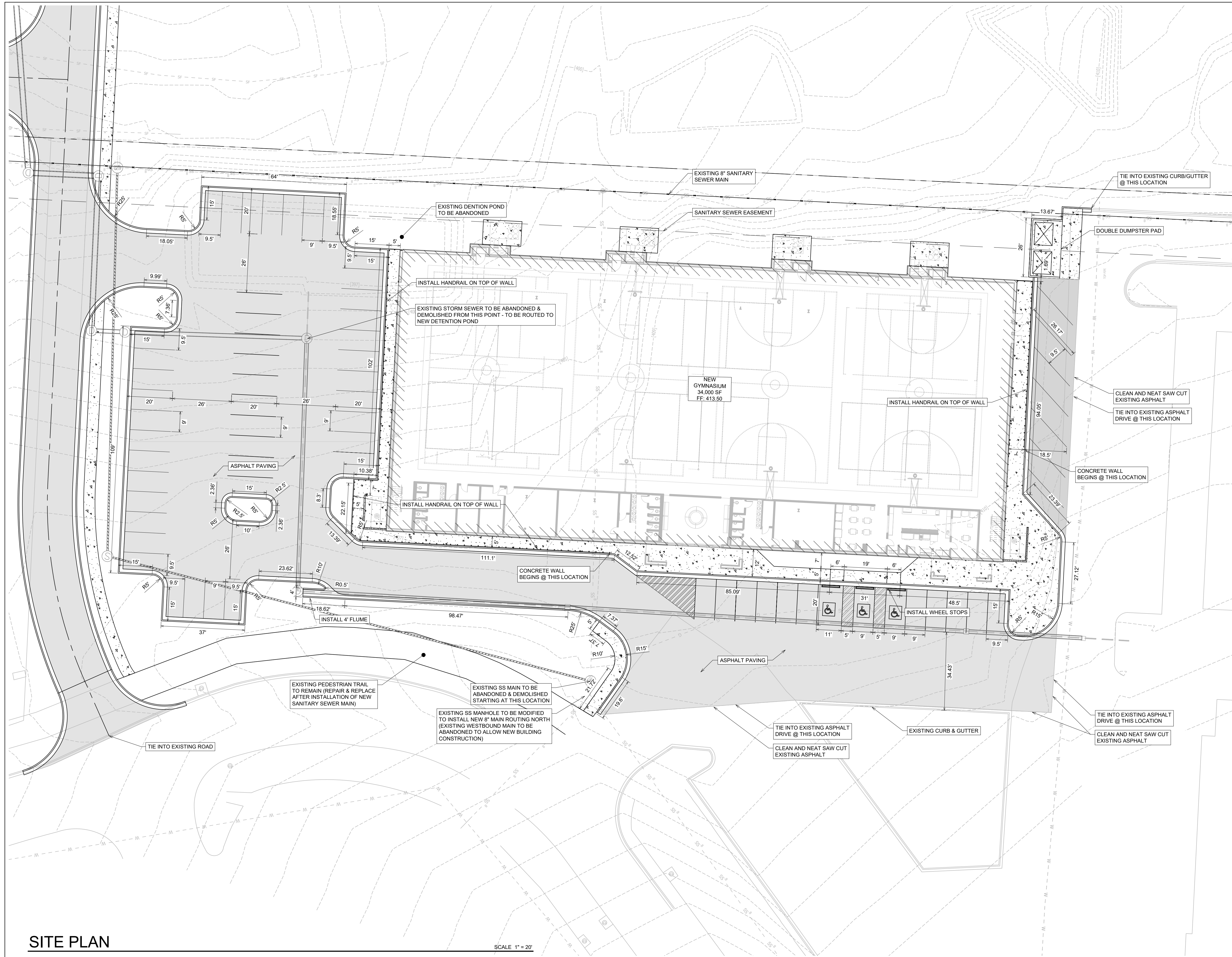
PAGE TITLE:

**OVERALL SITE PLAN**

SHEET NUMBER:

**C1.1**





**GENERAL CONSTRUCTION NOTES**

- A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.  
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- C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.
- D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT UTILITIES. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.
- H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.
- J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONCALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

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7817 Hwy 5 N  
Bryant, Arkansas

**PRELIMINARY NOT FOR CONSTRUCTION**

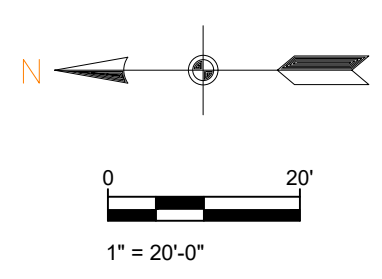
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SHEET ISSUE DATE: 09/20/2023  
PAGE TITLE:

**SITE PLAN**  
SHEET NUMBER: C1.2

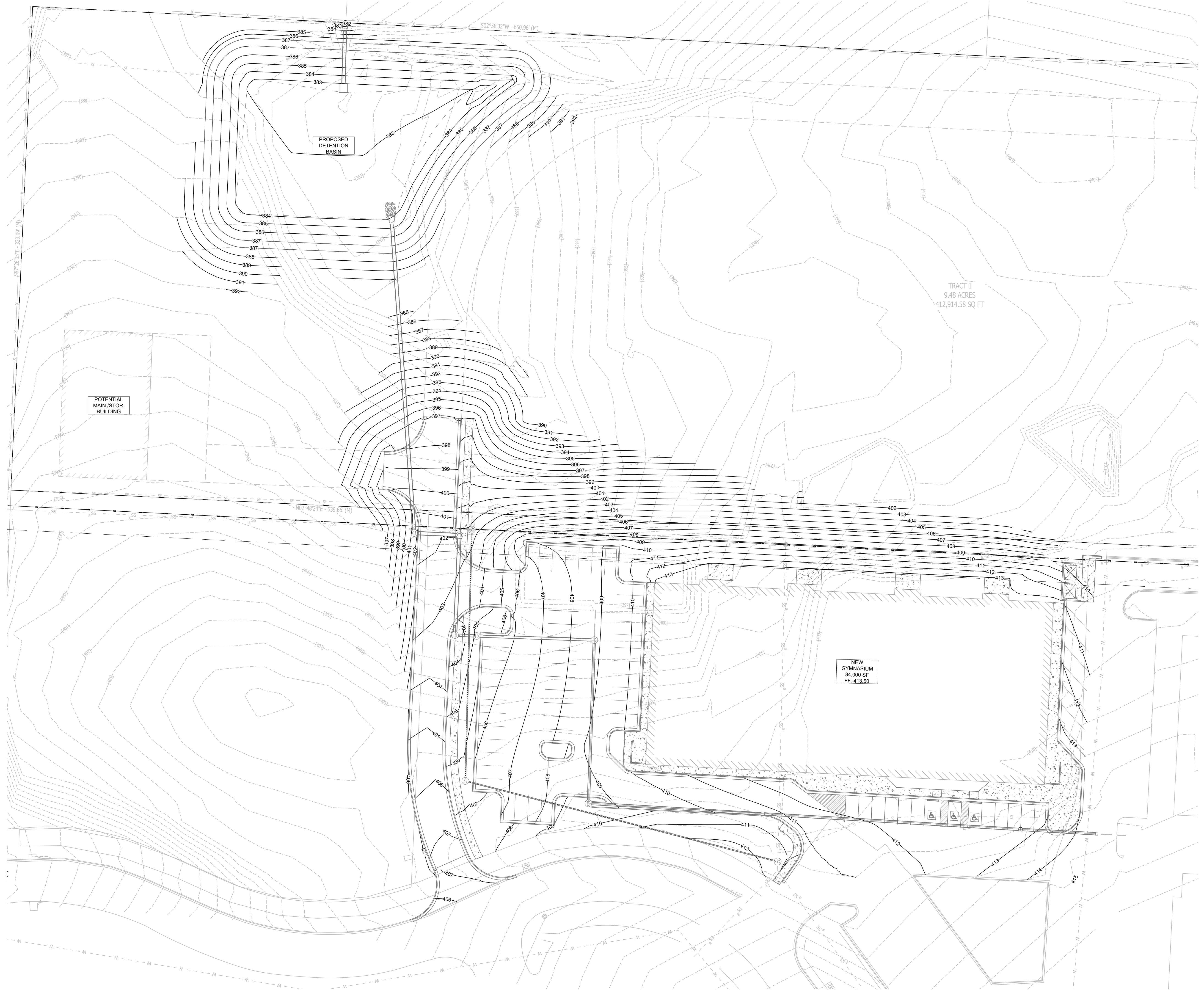
**SITE PLAN**

1. 65 PARKING SPACES PROVIDED INCLUDING 3 ADA ACCESSIBLE PARKING SPACES
2. ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
3. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
4. REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
5. ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

SCALE 1" = 20'

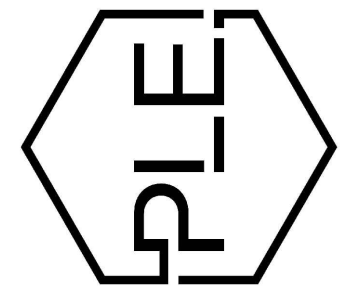
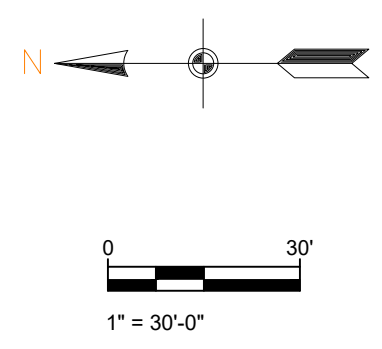






**OVERALL GRADING PLAN**

SCALE 1" = 30'



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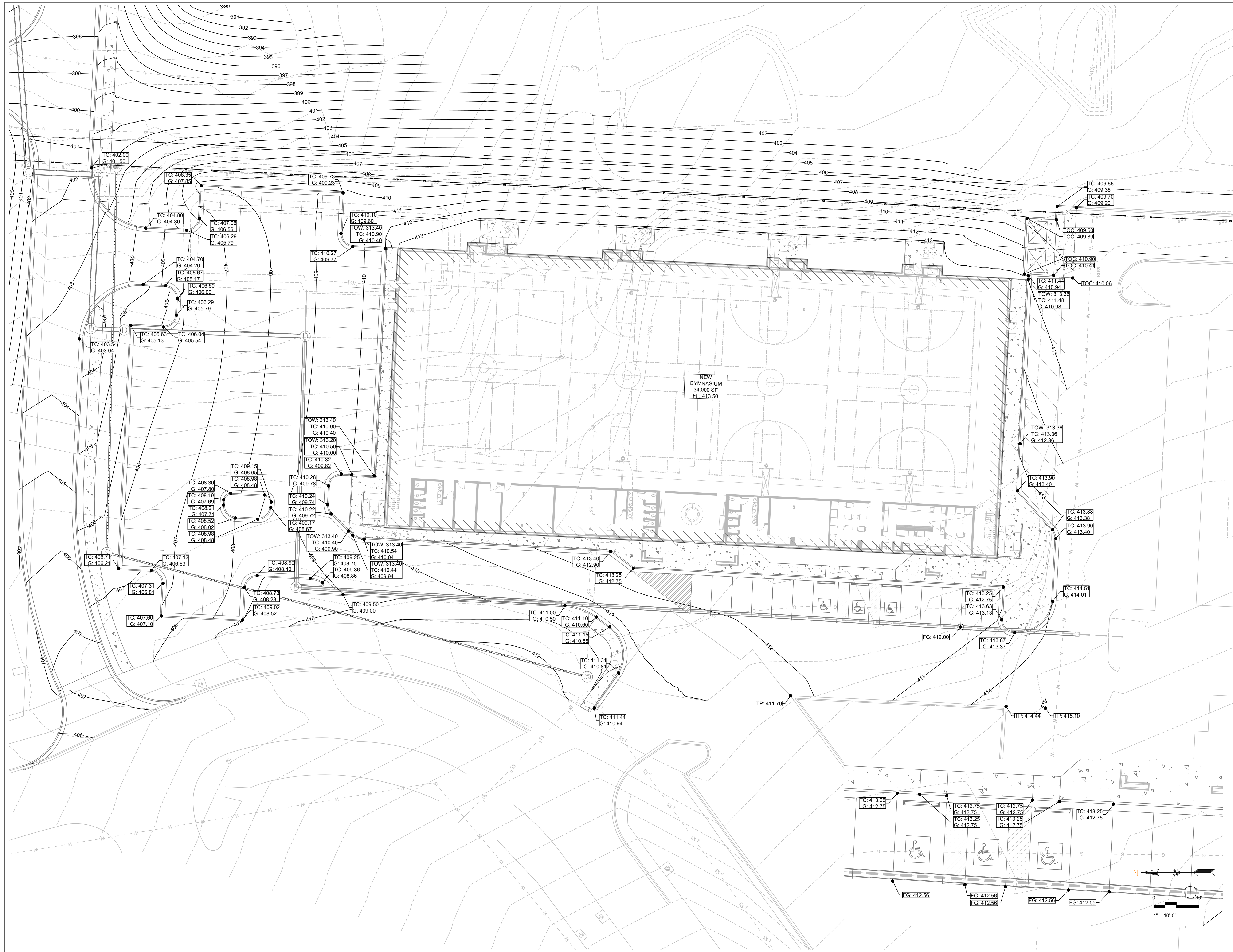
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09/20/2023

PAGE TITLE:

OVERALL GRADING PLAN

SHEET NUMBER:  
C1.3

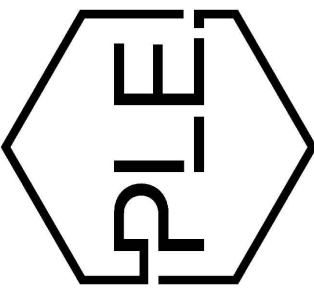
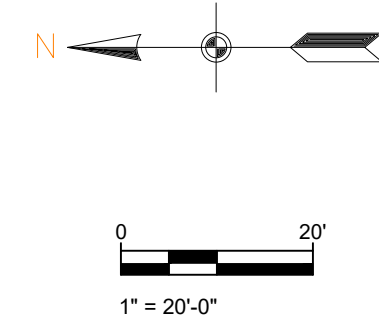




### GRADING PLAN

- G = GUTTER ELEVATION
- TP = TOP OF PAVEMENT ELEVATION
- TOC = TOP OF CONCRETE ELEVATION
- FG = FINAL GRADE ELEVATION (NON PAVED AREAS)
- TC = TOP OF CURB ELEVATION
- TOW = TOP OF WALL

SCALE 1" = 20'



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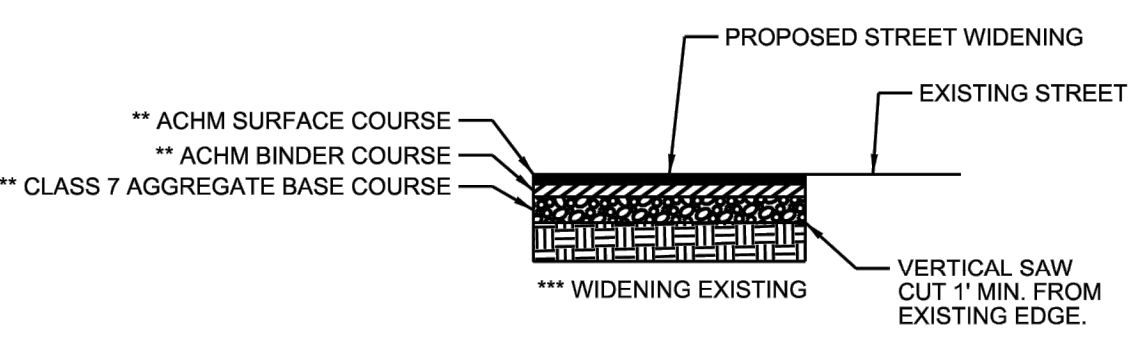
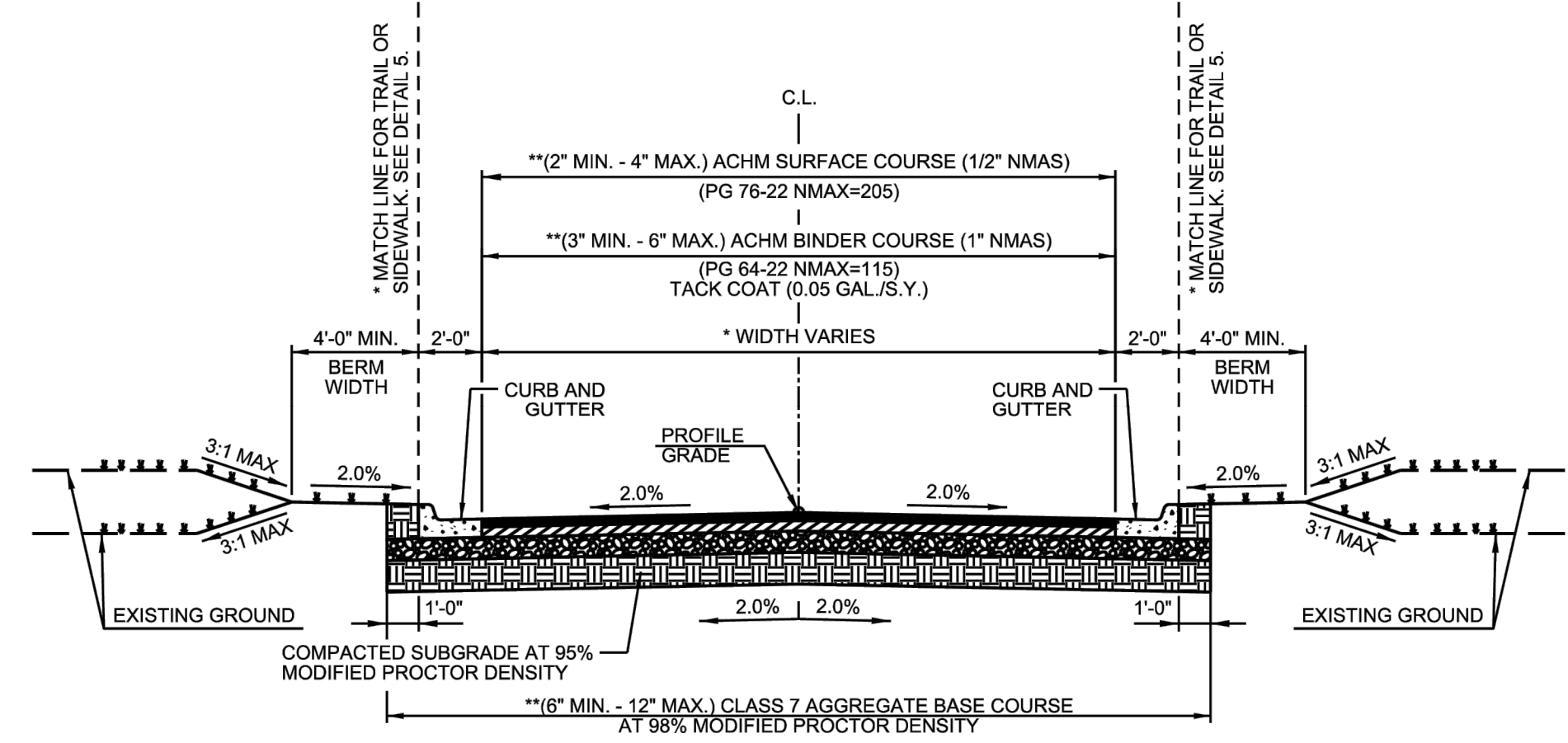
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GRADING PLAN

SHEET NUMBER:

C1.4





- GENERAL NOTES**
- IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM MODIFIED DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT.
  - FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO DENSITY OF 90% MAXIMUM MODIFIED DENSITY.
  - CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.
  - ACHM BASE COURSE (4" MIN. - 12" MAX.) (1 1/2" NMAS) MAY BE USED IF INCLUDED IN AN APPROVED PAVEMENT DESIGN.
- CROSS SECTIONS AND RIGHT-OF-WAY SHALL ADHERE TO THE MINIMUM WIDTH REQUIREMENTS SHOWN IN THE CITY OF BRYANT MASTER TRANSPORTATION PLAN. THE DEVELOPMENT REVIEW COMMITTEE SHALL DETERMINE WHICH VERSION OF STREET CLASSIFICATION AND WHAT WIDTHS WILL BE REQUIRED.**
- THICKNESS TO BE DETERMINED BY PAVEMENT DESIGN IN ACCORDANCE WITH SECTION 5.0 OF THE MINIMUM STANDARD SPECIFICATIONS FOR STREETS.**
- PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE STANDARDS.**

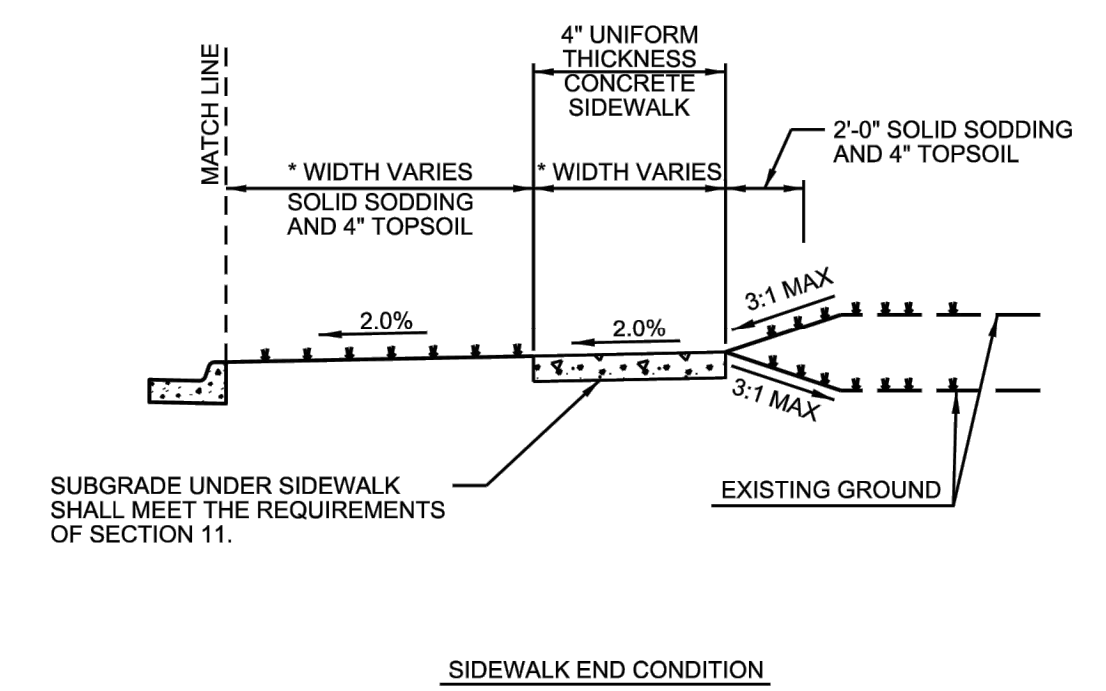
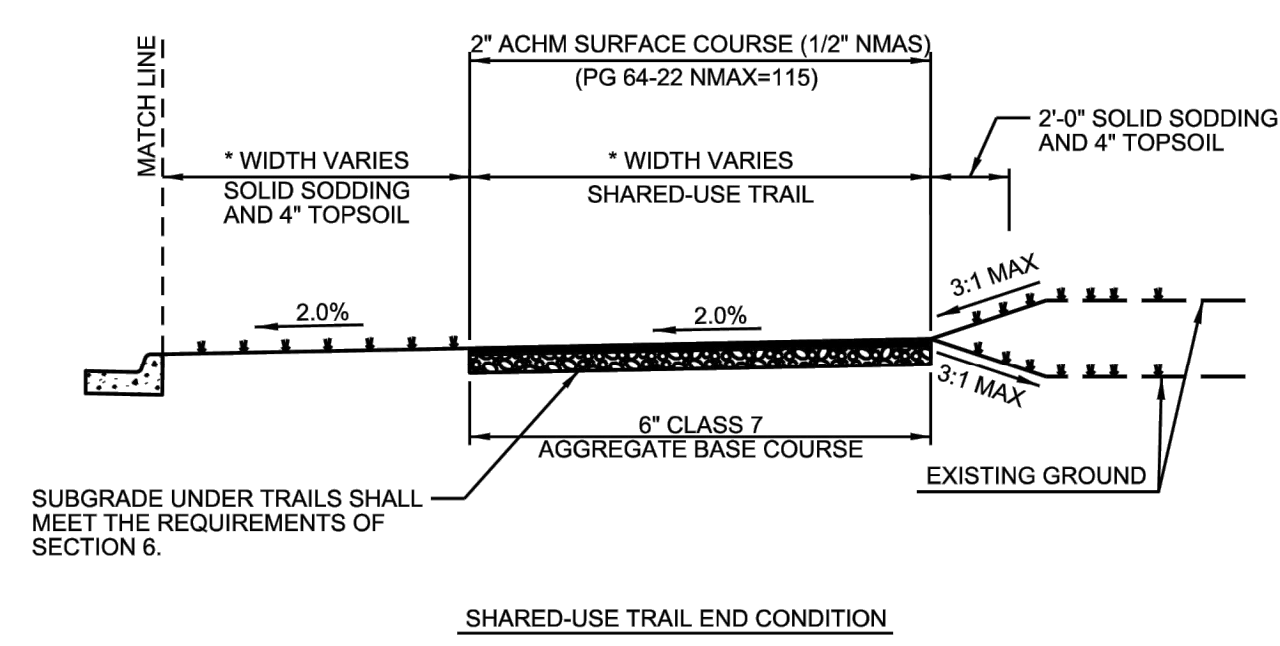
**CITY OF BRYANT**

**TYPICAL SECTION MINOR ARTERIAL**

ISSUE DATE: AUGUST 2021

REVISION DATE:

**DETAIL 1**



**SHARED-USE TRAIL END CONDITION**

**SIDEWALK END CONDITION**

\* WIDTH SHALL ADHERE TO THE MINIMUM WIDTH REQUIREMENTS SHOWN IN THE CITY OF BRYANT MASTER TRANSPORTATION PLAN. THE DEVELOPMENT REVIEW COMMITTEE SHALL DETERMINE WHICH VERSION OF STREET CLASSIFICATION AND WHAT WIDTHS WILL BE REQUIRED.

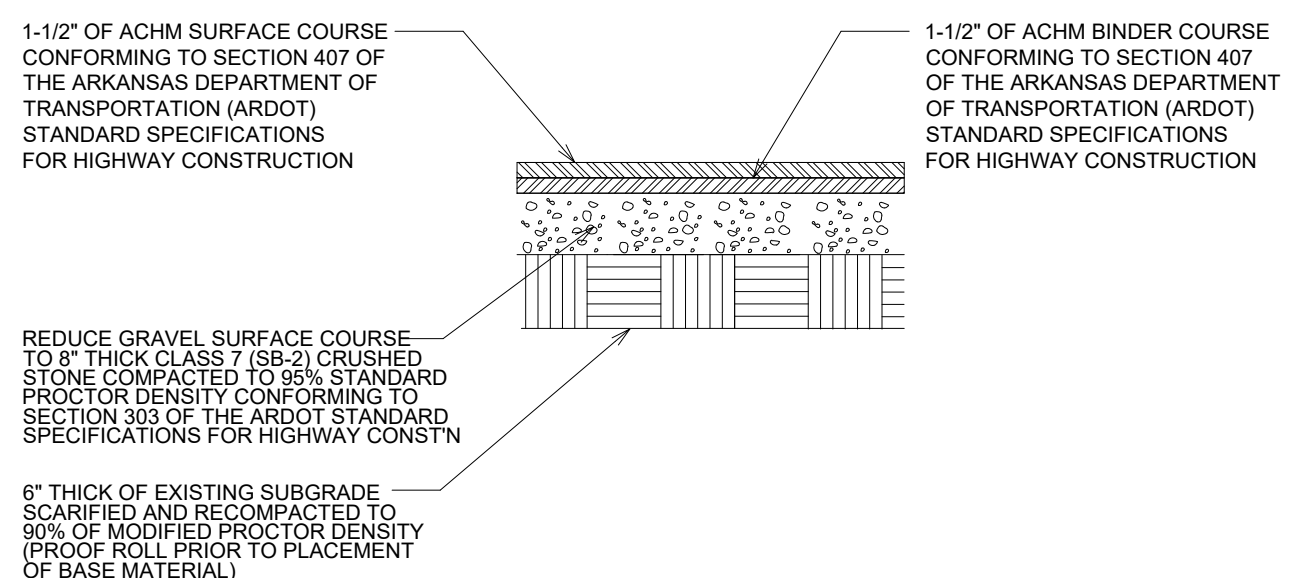
**CITY OF BRYANT**

**TYPICAL SECTION END CONDITIONS**

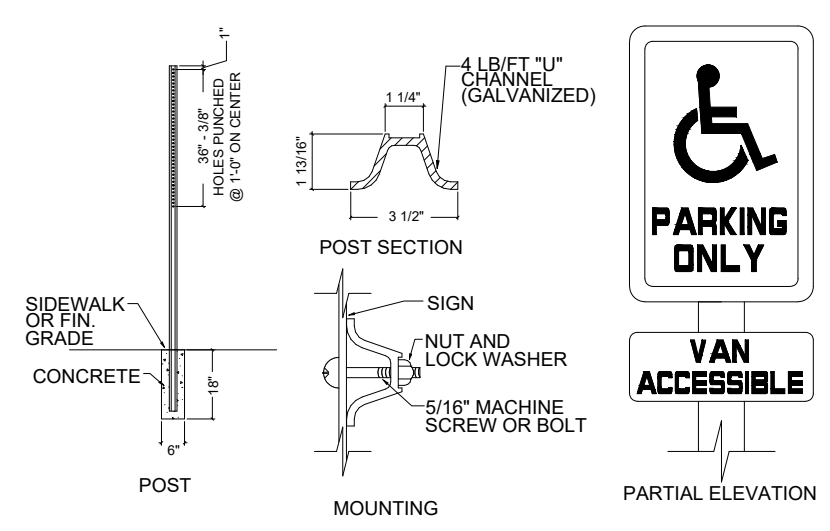
ISSUE DATE: AUGUST 2021

REVISION DATE:

**DETAIL 5**

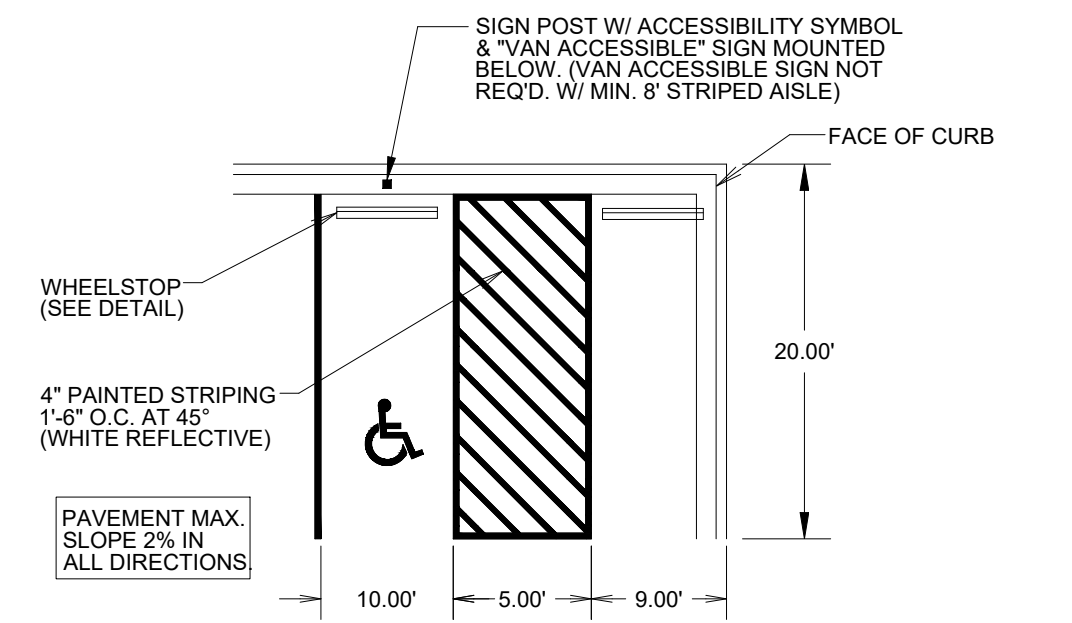


**HMAC ASPHALT SURFACE COURSE LIGHT DUTY** NOT TO SCALE

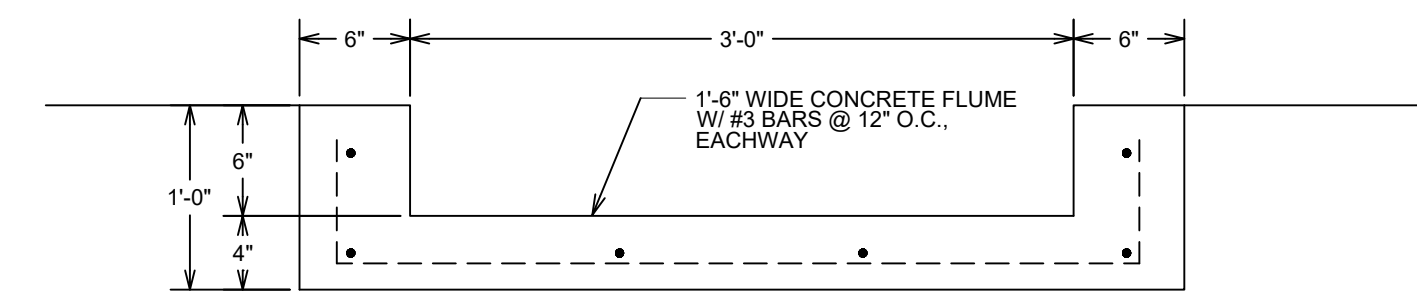


**HANDICAP SIGN DETAIL** NOT TO SCALE

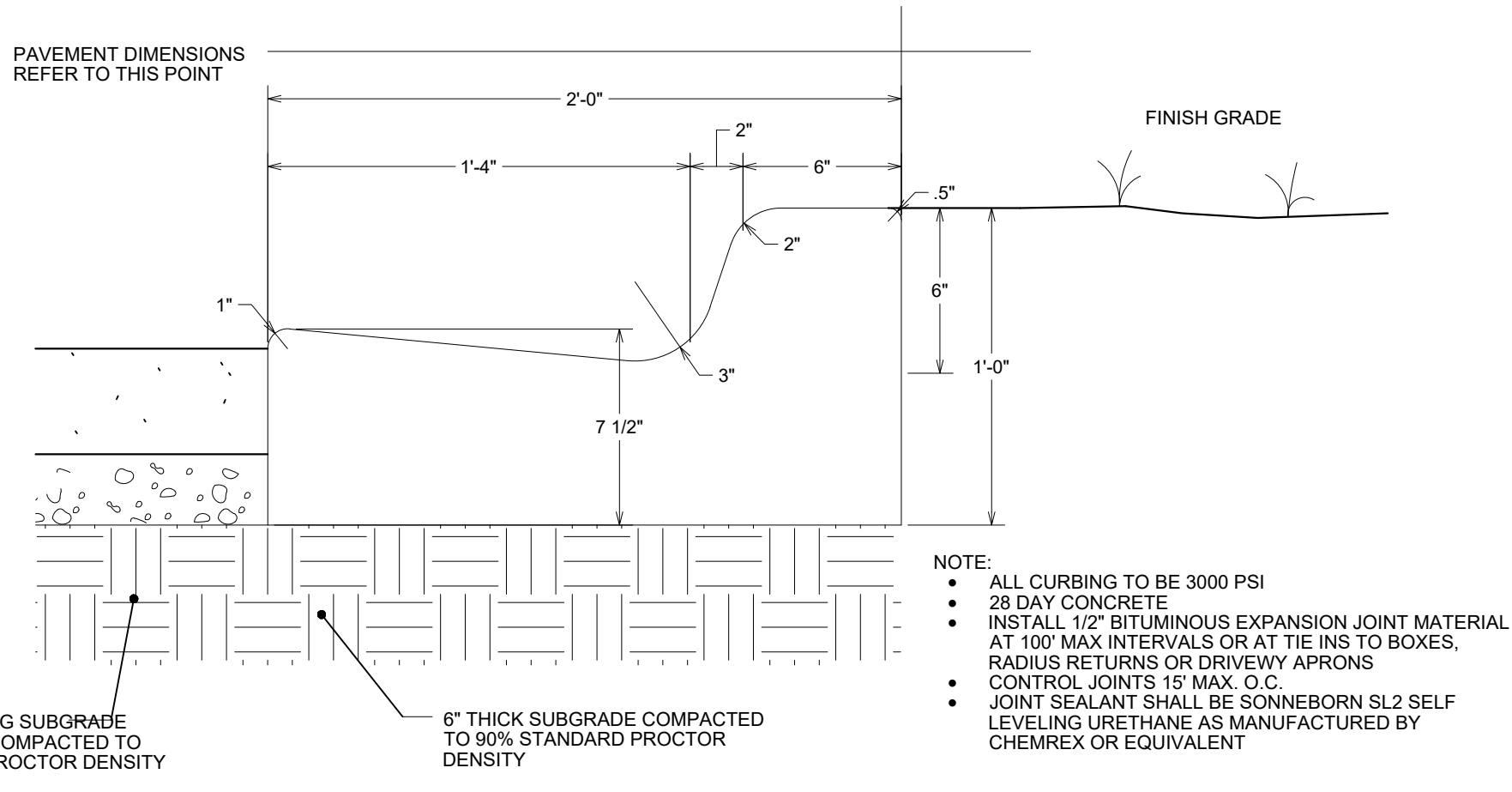
NOTE: HANDICAP SIGNAGE SHALL BE IN STRICT COMPLIANCE WITH CURRENT FEDERAL AND LOCAL LAW REQUIREMENTS.



**TYPICAL ACCESSIBLE PARKING STALLS**



**CONCRETE FLUME DETAIL** NOT TO SCALE



**2-0" CONCRETE CURB & GUTTER** NOT TO SCALE

- NOTE:**
- ALL CURBING TO BE 3000 PSI
  - 28 DAY CONCRETE
  - INSTALL 1/2" BITUMINOUS EXPANSION JOINT MATERIAL AT 100' MAX INTERVALS OR AT TIE INS TO BOXES, RADIUS RETURNS OR DRIVEWAY APRONS
  - CONTROL JOINTS 15' MAX. O.C.
  - JOINT SEALANT SHALL BE SONNEBORN SL2 SELF LEVELING URETHANE AS MANUFACTURED BY CHEMREX OR EQUIVALENT

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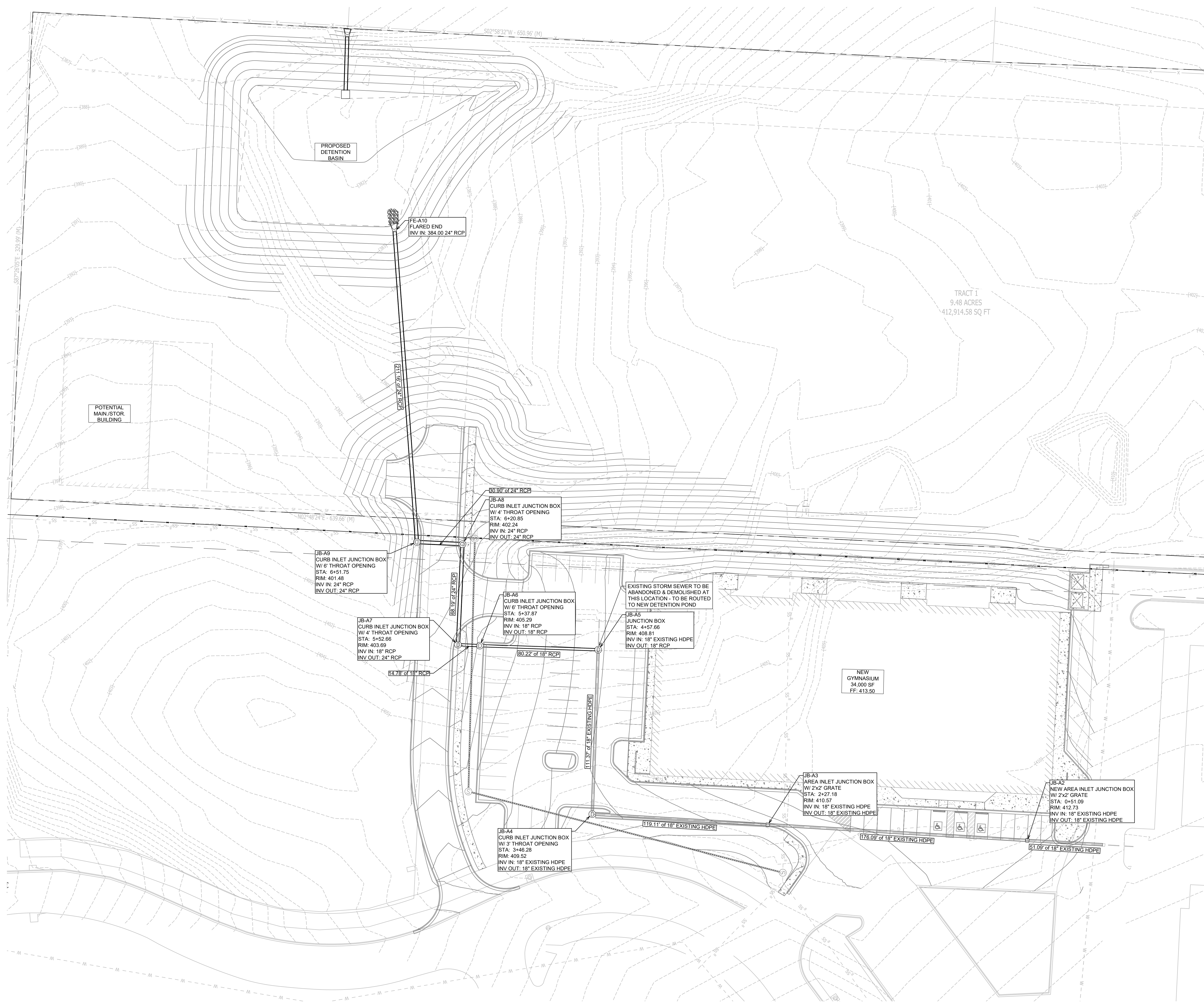
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SHEET ISSUE DATE: 09/20/2023

PAGE TITLE: **SITE DETAILS**

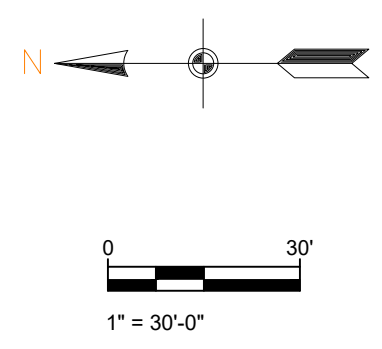
SHEET NUMBER: **C1.5**





**STORMWATER PLAN**

SCALE 1" = 30'



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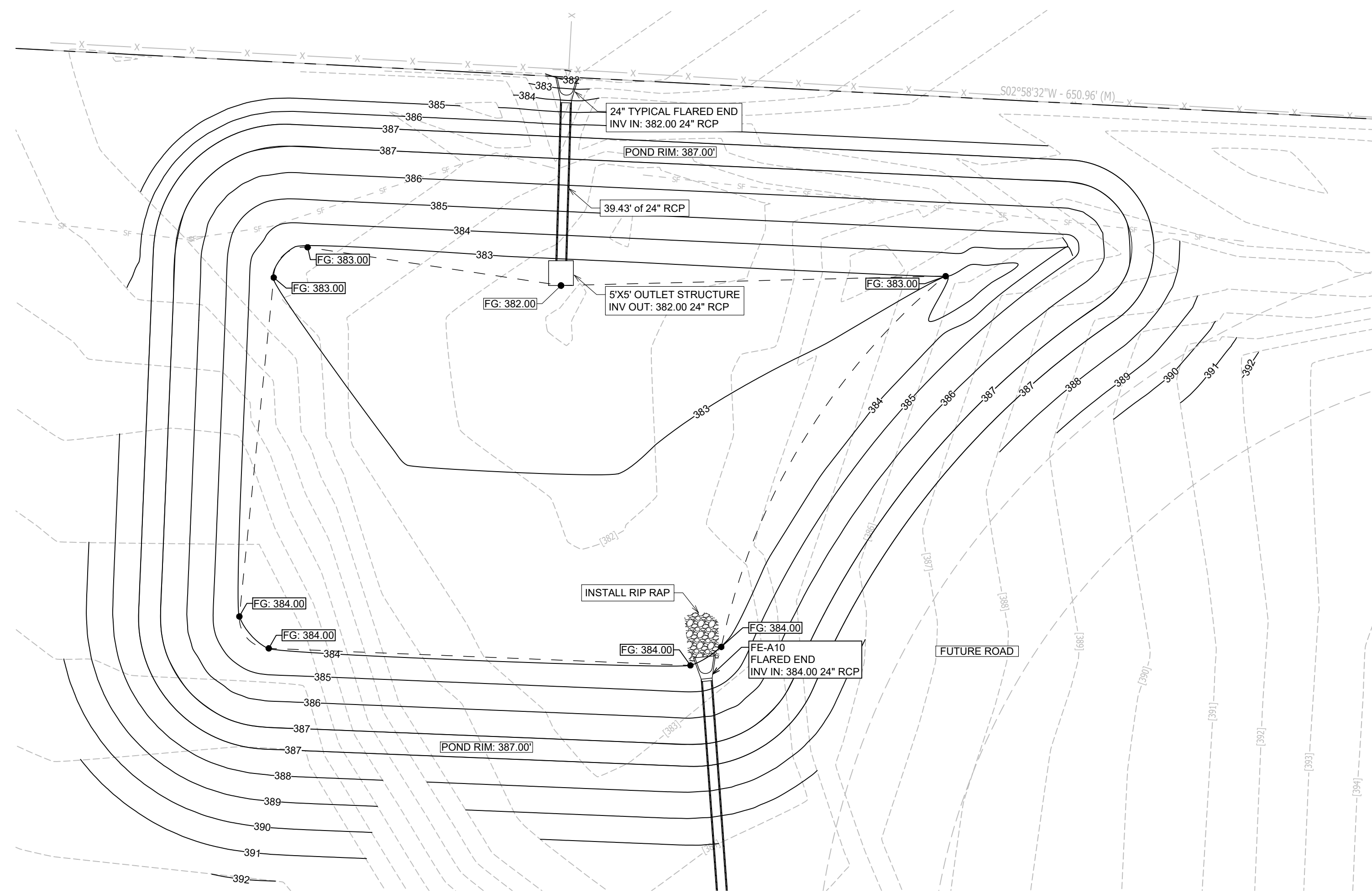
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PROJECT NUMBER:  
 SHEET ISSUE DATE: 09/20/2023  
 PAGE TITLE: STORMWATER PLAN  
 SHEET NUMBER: C1.6

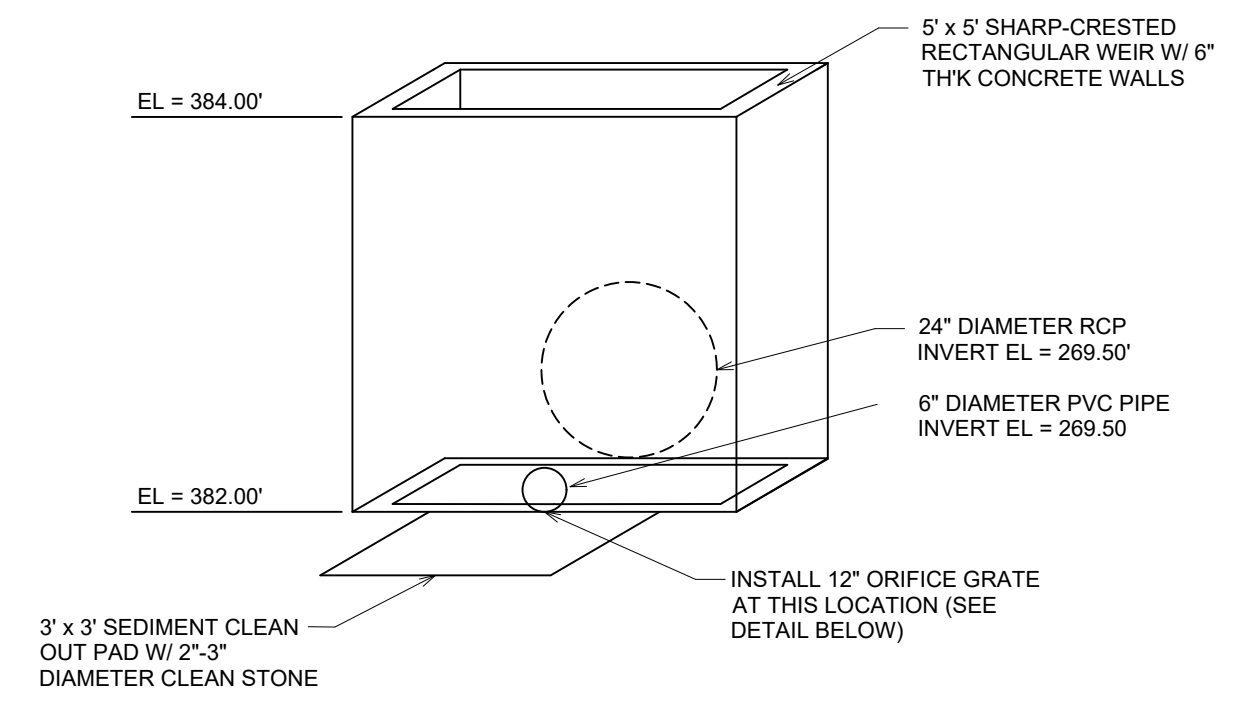




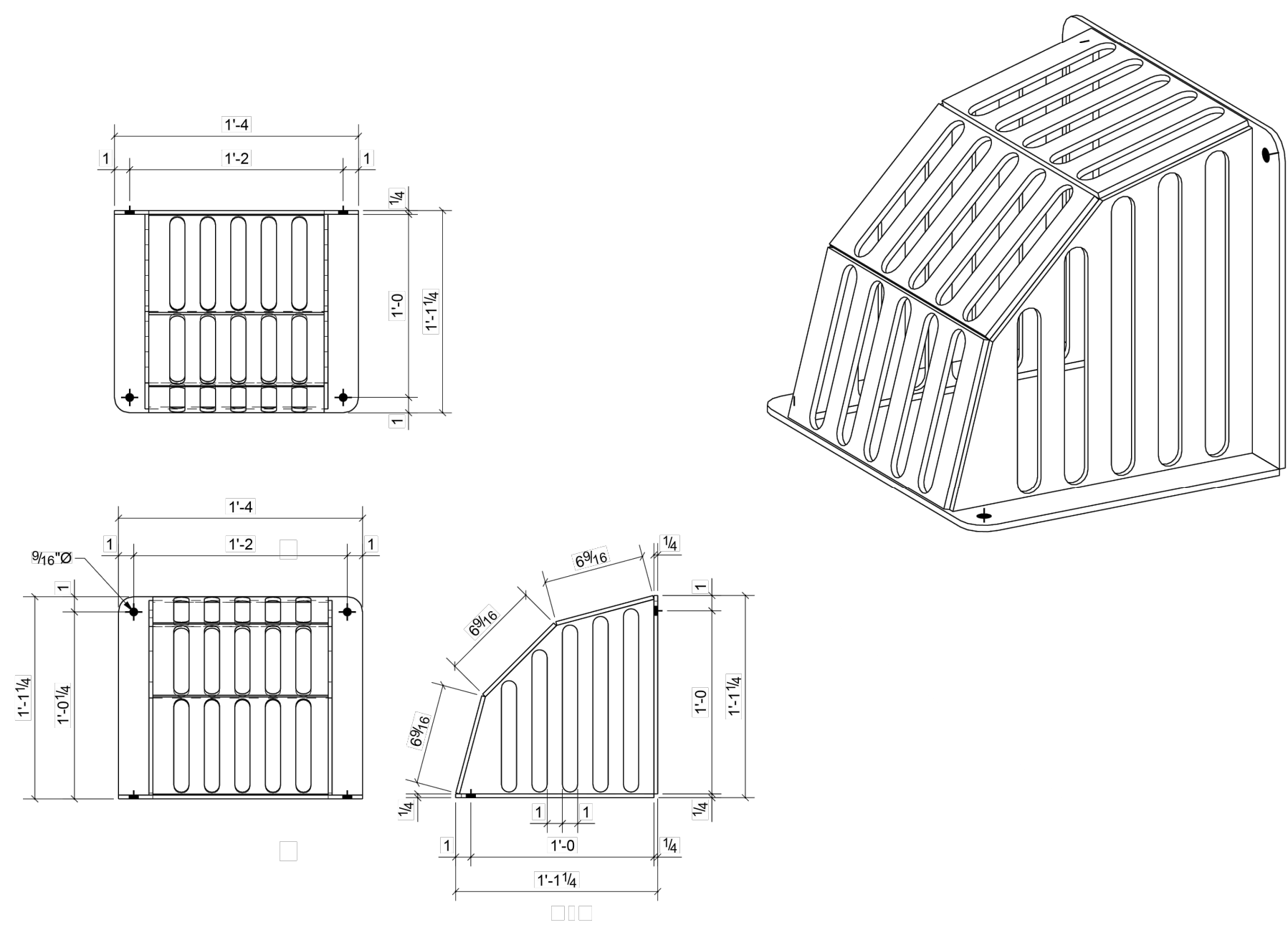
**DETENTION PLAN**

FG = FINAL GRADE ELEVATION (NON PAVED AREAS)

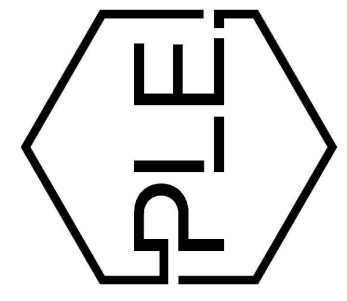
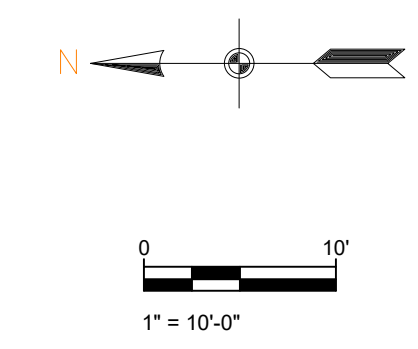
SCALE 1" = 20'



DETENTION POND OUTLET STRUCTURE DETAIL NOT TO SCALE



12" ORIFICE TRASH SCREEN  
 DETAILED ABOVE IS THE "TRASHRACK LPG-12" SCREEN. SIMILAR PRODUCT IS ALLOWED



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DETENTION PLAN

SHEET NUMBER:

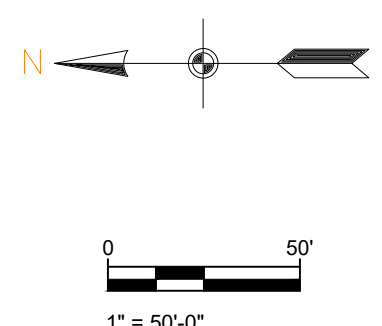
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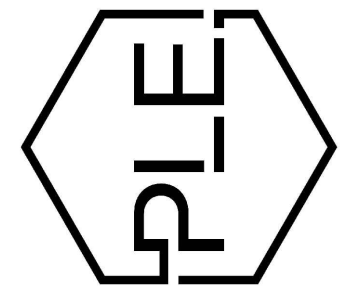


PRE DRAINAGE MAP

SCALE 1" = 50'



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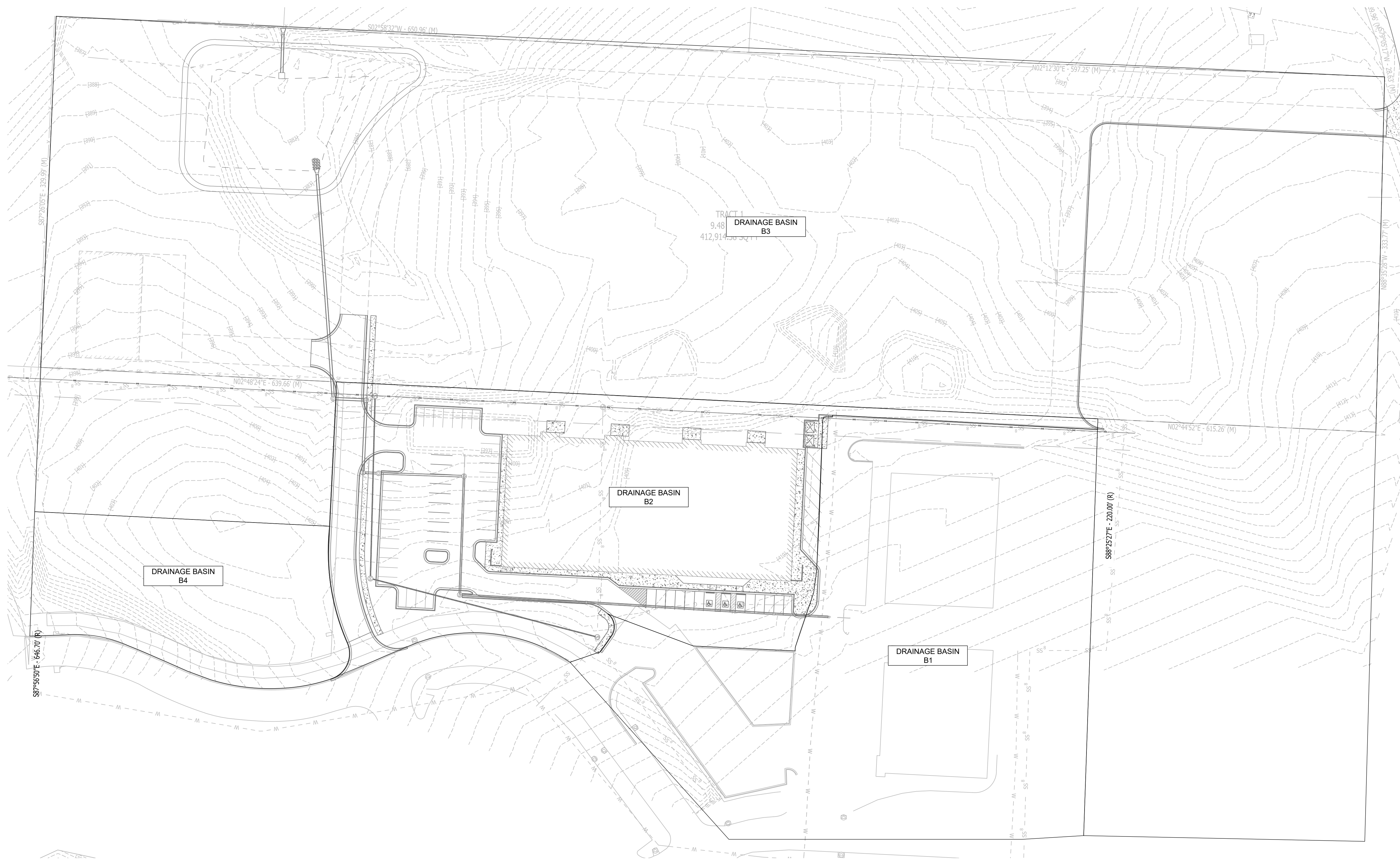
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PRE DRAINAGE MAP

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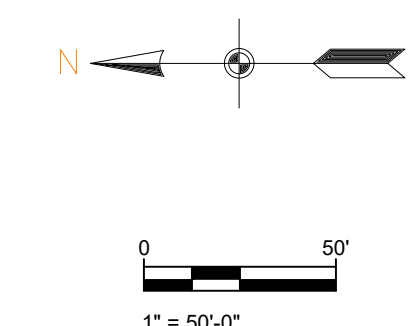
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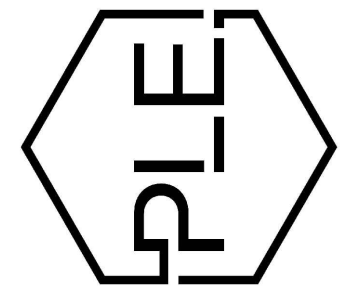




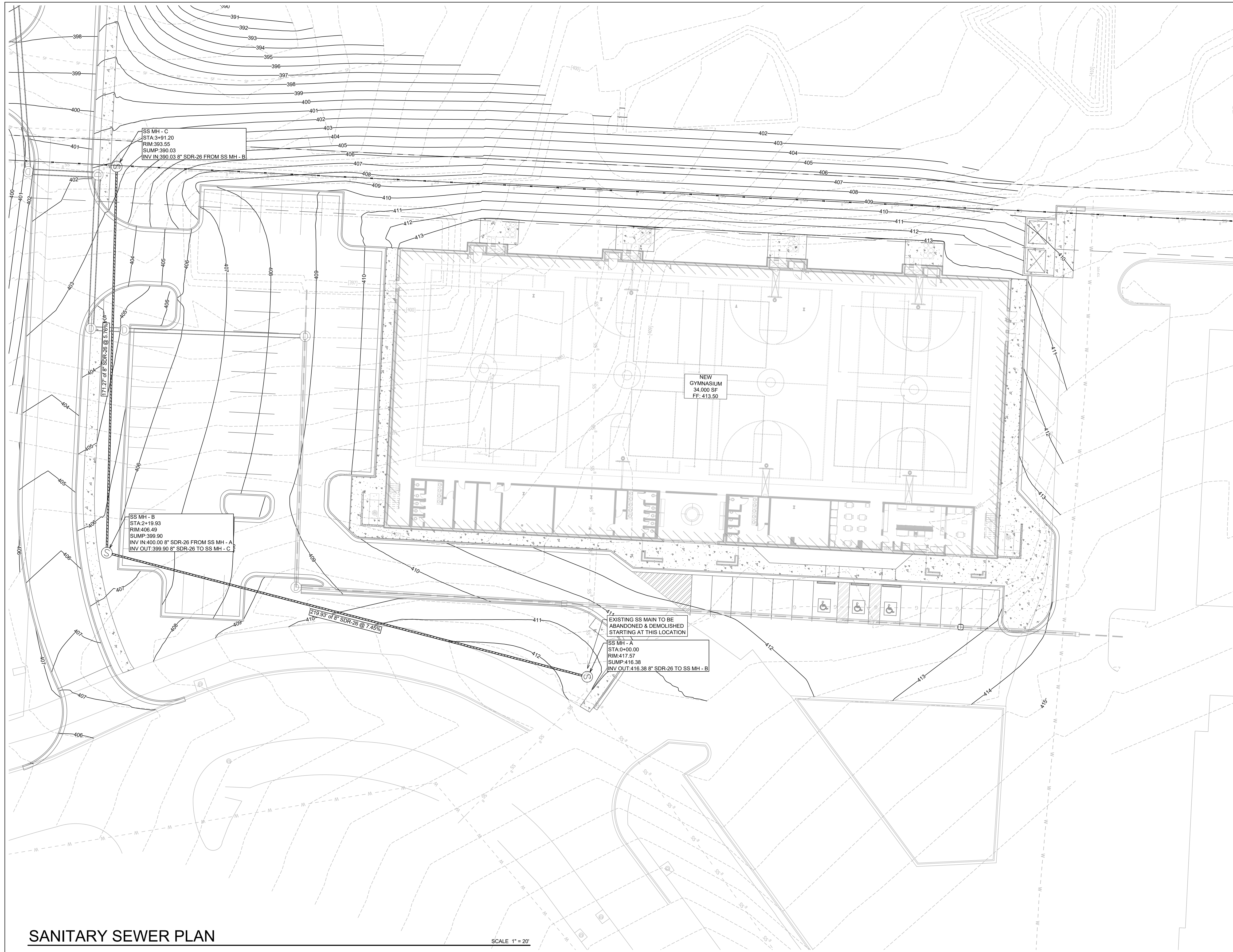
**POST DRAINAGE MAP**

SCALE 1" = 50'



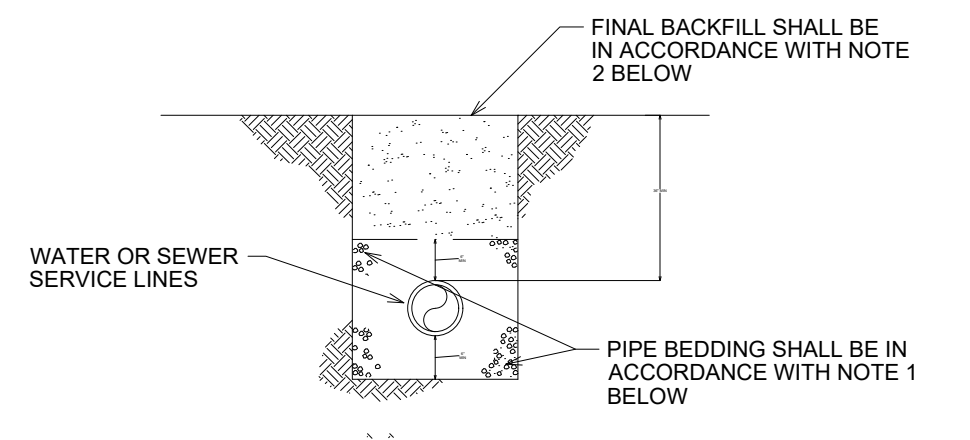

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PRELIMINARY NOT FOR CONSTRUCTION
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<p><b>POST DRAINAGE MAP</b></p>
SHEET NUMBER:
<p><b>C1.9</b></p>





**SANITARY SEWER PLAN**

SCALE 1" = 20'



**WATER AND SEWER LINES BEDDING DETAIL** NOT TO SCALE

- NOTES:
1. BEDDING SHALL BE "GRIT" PER ASTM 2774 OR ASTM D448 SIZE 67 A MINIMUM OF 6" ALL AROUND PIPE.
  2. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR. ALL BACKFILL UNDER PAVED AREAS SHALL BE CLASS 7 CRUSHED STONE (SB-2) COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  3. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D2321-89.
  4. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LIFTS IN ACCORDANCE WITH ASTM D598. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED TO NEAR OPTIMUM MOISTURE CONTENT.
  5. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS, AND ROCKS LARGER THAN 3".
  6. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

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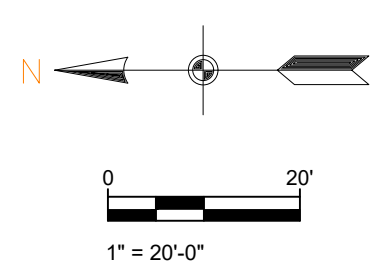
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**SANITARY SEWER PLAN**

SHEET NUMBER:

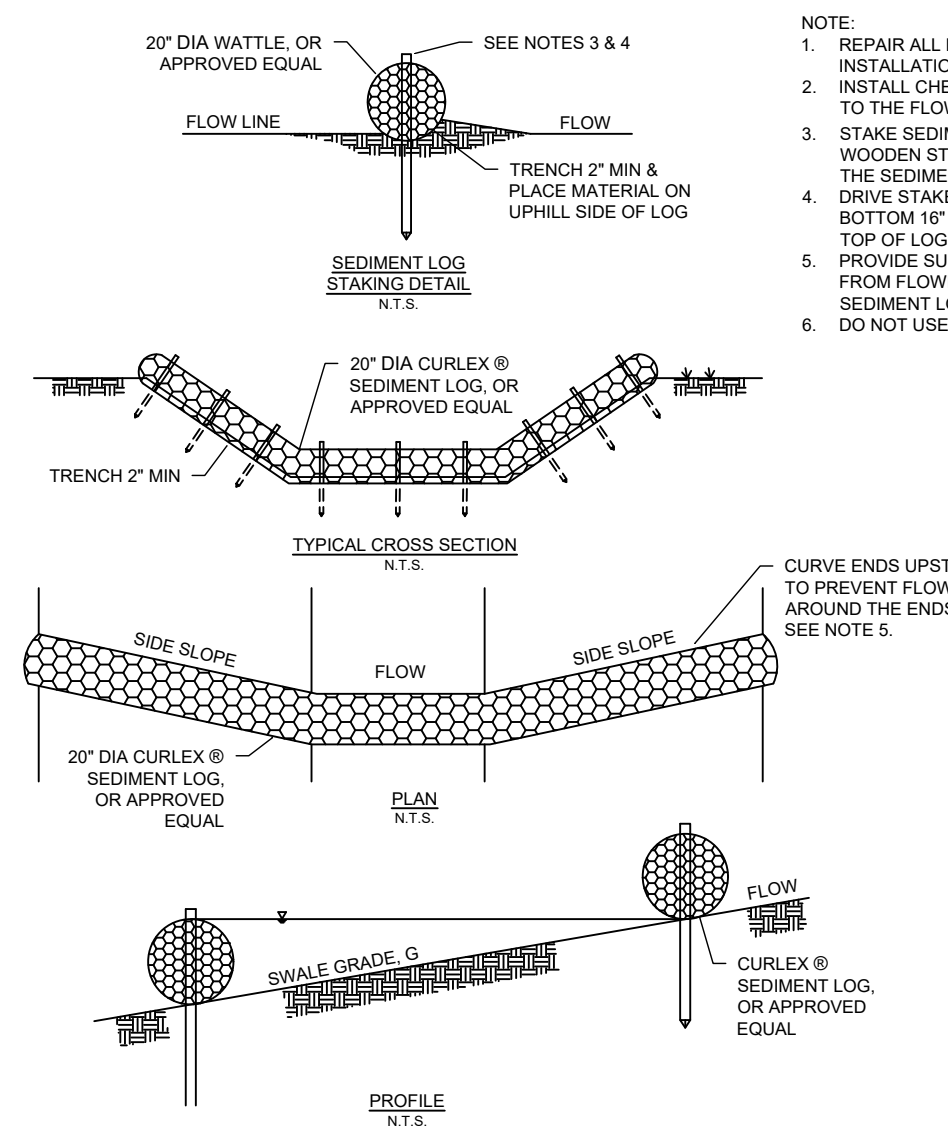
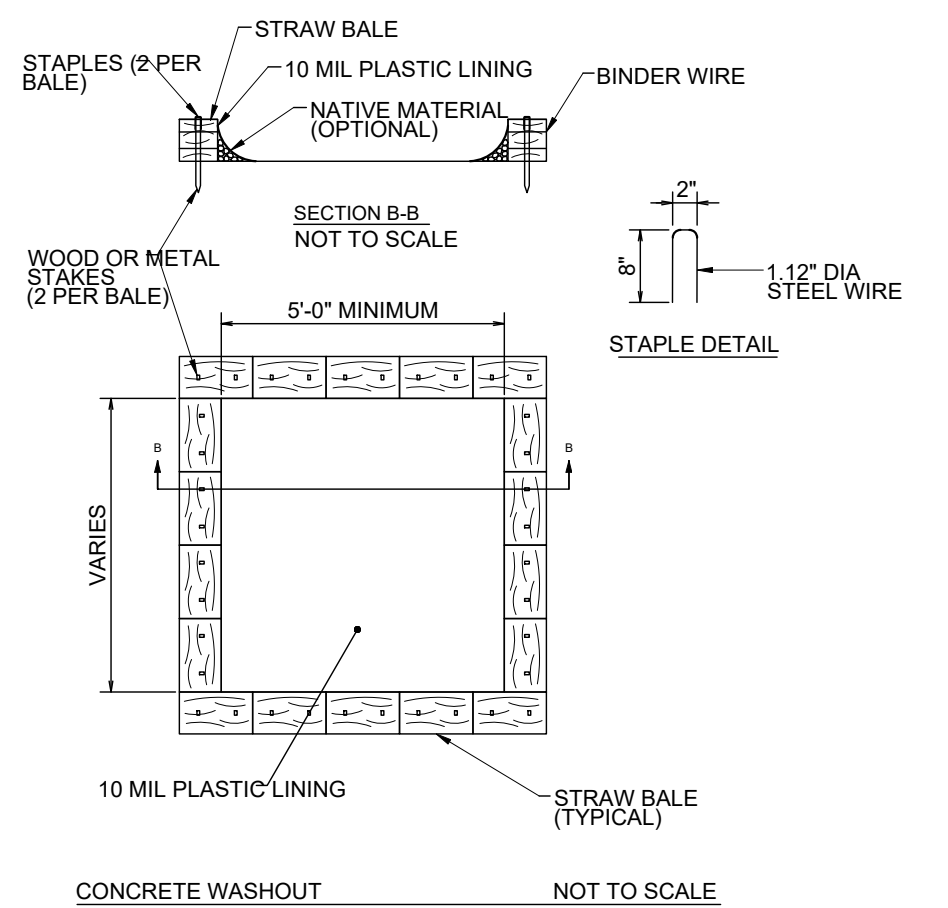
**C1.10**







- NOTES AND SPECIFICATIONS:**
1. POSTS SHALL BE A MINIMUM OF 36 INCHES CONSTRUCTED OF EITHER OF THE FOLLOWING MATERIALS: STEEL "T" OR "U" TYPE, OR 2" x 2" HARDWOOD.
  2. WOVEN WIRE USED AS ADDITIONAL FENCE SUPPORT SHALL BE MINIMUM 14.5 GA. WITH 6" MAXIMUM SPACING.
  3. WOVEN WIRE SHALL BE PLACED ALONG THE UPHILL SIDE OF THE FENCE AND FASTENED WITH WIRE TIES OR 1" STAPLES ALONG THE UPHILL SIDE OF THE POSTS.
  4. FILTER FABRIC SHALL BE FASTENED TO WOVEN WIRE ACCORDING TO MANUFACTURER'S RECOMMENDATION, OR WITH TIES EVERY 24" AT THE TOP AND MID-SECTIONS.
  5. WHERE TWO PIECES OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED TOGETHER.
  6. WHERE TWO POSTS MEET TO JOIN FENCE SECTIONS, THE TOPS OF THE POSTS SHALL BE SECURED TOGETHER WITH WIRE.
  7. THE FENCE SHALL BE CONSTRUCTED ALONG THE CONTOUR AS MUCH AS POSSIBLE.
  8. ENDS OF FENCES SHALL BE EXTENDED UP THE SLOPE TO PREVENT RUNOFF FROM MIGRATING AROUND THE END OF THE FENCE.
  9. INSPECTION OF THE FENCE SHALL BE PERFORMED WEEKLY, OR IMMEDIATELY AFTER A RAIN EVENT, OR WHEN BULGES APPEAR IN THE FENCE. ACCUMULATED SILT SHALL NOT BE ALLOWED TO EXCEED HALF THE HEIGHT OF THE FABRIC. REPAIR AND OR REPLACEMENT OF DAMAGED FENCE SHALL BE COMPLETED PROMPTLY.
  10. ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE IN SUCH A MANNER THAT IT WILL NOT CONTRIBUTE TO OFF-SITE SILTATION.
  11. ALL FENCING SHALL BE REMOVED WITH THE CONSTRUCTION SITE IS FULLY STABILIZED SO AS TO NOT IMPEDE STORM FLOW OR DRAINAGE.
  12. PRE-FABRICATED UNITS DO NOT REQUIRE THE USE OF WOVEN WIRE FENCE.



- NOTE:**
1. REPAIR ALL RILLS OR GULLIES PRIOR TO INSTALLATION
  2. INSTALL CHECK DAMS IN SWALES PERPENDICULAR TO THE FLOWLINE
  3. STAKE SEDIMENT LOGS IN PLACE WITH 1/2" x 1/2" WOODEN STAKES. DRIVE STAKES AT EACH END OF THE SEDIMENT LOG AT 2' (MAX) SPACING.
  4. DRIVE STAKES INTO UNDISTURBED SOIL OF SWALE BOTTOM 16" (MIN). EXPOSE STAKES 2" MIN ABOVE TOP OF LOG.
  5. PROVIDE SUFFICIENT LENGTH TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE SEDIMENT LOG.
  6. DO NOT USE WITH SWALE GRADE > 5%
- NOTES AND SPECIFICATIONS:**
1. SEDIMENT LOGS SHOULD BE PLACED 180 FT APART BASED ON THE SLOPE OF THE SURFACE.
  2. THERE SHOULD BE THREE SEDIMENT LOGS USED IN THE DRAINAGE DITCH RUNNING SOUTH ALONG SKYLINE DR UNTIL IT MEETS THE LARGE DRAINAGE DITCH THAT RUNS ALONG THE FRONT OF THE DEALERSHIP
  3. SHOULD BE INSTALLED FROM BOC TO THE EDGE OF THE ROW

CHECK DAM SPACING	
G (%)	S (FT)
1	150
2	75
3	50
4	40
5	30

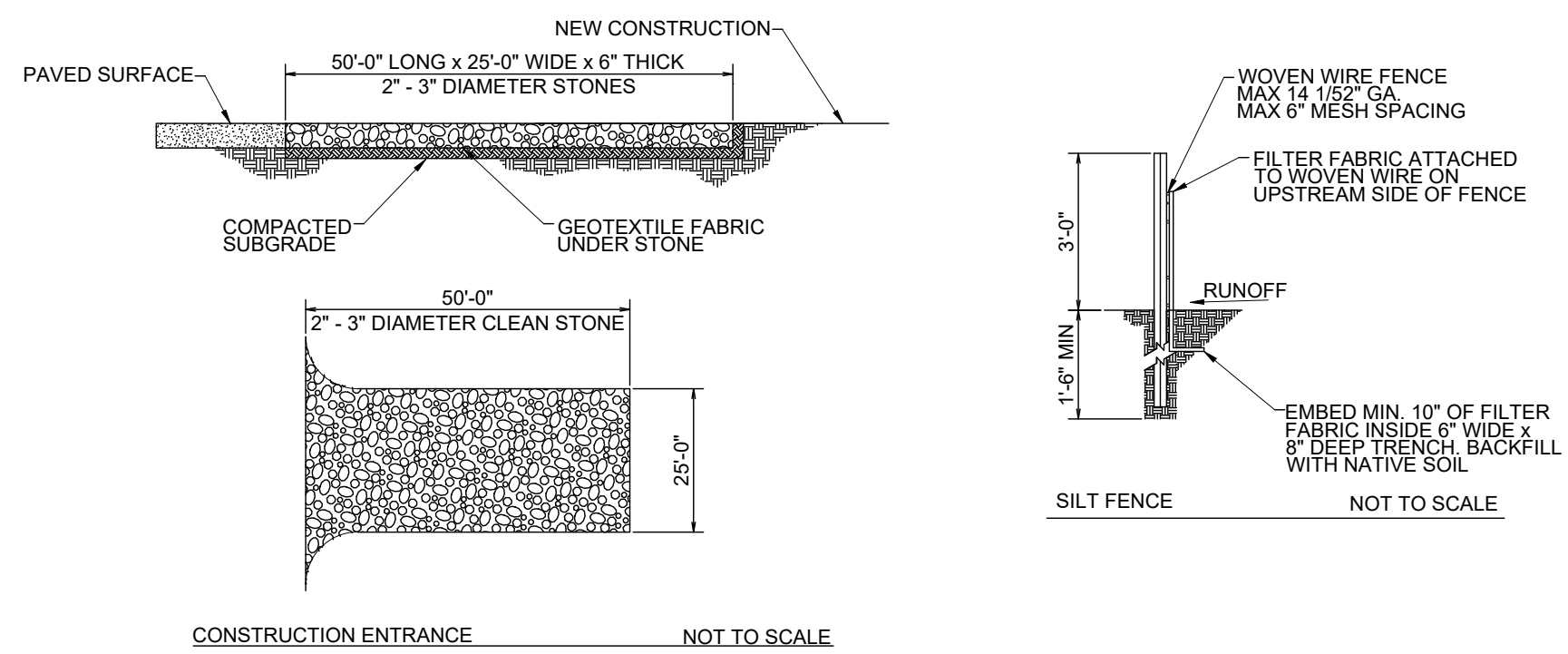
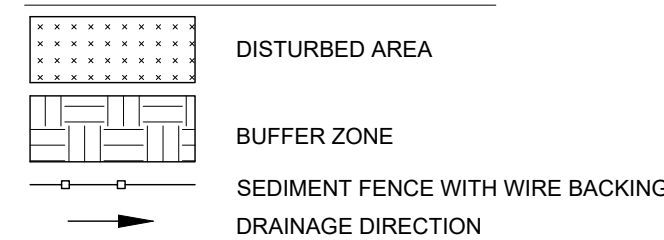
**SWPPP PHASE 1**

SCALE 1" = 50'

**NOTES (GENERAL):**

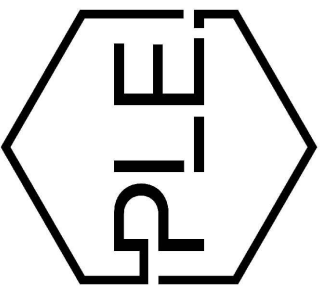
1. SEE EROSION CONTROL DETAILS IN SWPPP FOR EROSION CONTROL FACILITIES.
2. SEE SWPPP FOR INSTALLATION, MAINTENANCE, INSPECTION, AND RECORD KEEPING REQUIREMENTS.
3. CONTRACTOR SHALL SHOW EROSION CONTROL MEASURES ON SITE MAP.
4. EROSION AND SEDIMENT CONTROL STRUCTURES TO MEET SWPPP DETAILS - APPENDIX D.
5. INSTALL ROCK DITCH CHECKS OR SAND BAG CHECKS AS NECESSARY TO PREVENT SCOUR UNTIL LANDSCAPING IS ESTABLISHED.
6. CONTRACTOR MUST PLACE SEDIMENT BASIN WITH SEDIMENT FENCE OUTLET FOR ANY SEDIMENT CONTAMINATED DEWATERING DISCHARGE.
7. CONTRACTOR TO CONSTRUCT CONCRETE WAS OUT SLUMP, AS NEEDED AND SHOWN ON CONSTRUCTION PLANS. DO NOT DISCHARGE TO SURFACE.
8. FINAL SLOPE WILL BE SAME DIRECTION AS EXISTING SLOPE.

**LEGEND**



**SEDIMENT LOG**

NOT TO SCALE



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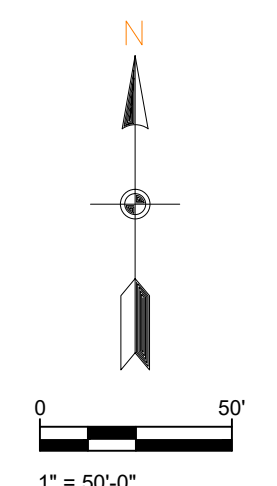
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SWPPP PH. 1

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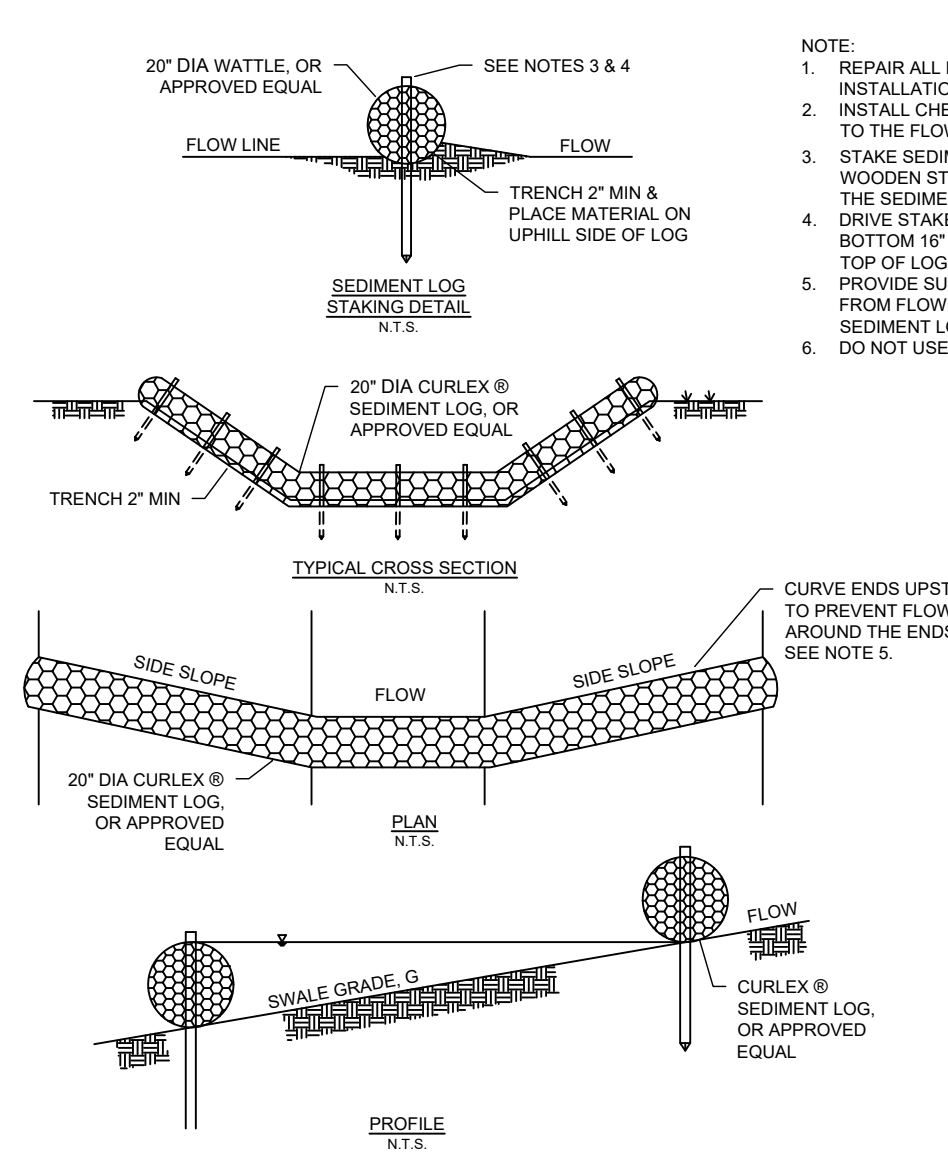
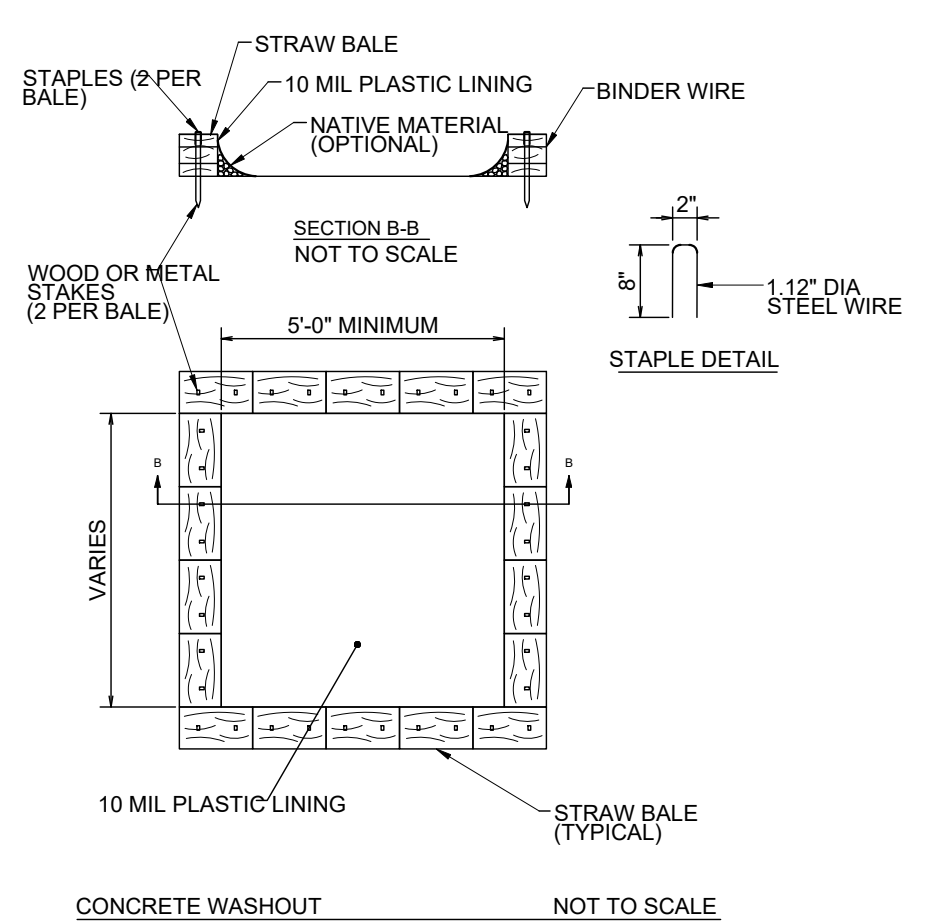
C1.11







- NOTES AND SPECIFICATIONS:**
1. POSTS SHALL BE A MINIMUM OF 36 INCHES CONSTRUCTED OF EITHER OF THE FOLLOWING MATERIALS: STEEL "T" OR "U" TYPE, OR 2" x 2" HARDWOOD.
  2. WOVEN WIRE USED AS ADDITIONAL FENCE SUPPORT SHALL BE MINIMUM 14.5 GA. WITH 6" MAXIMUM SPACING.
  3. WOVEN WIRE SHALL BE PLACED ALONG THE UPHILL SIDE OF THE FENCE AND FASTENED WITH WIRE TIES OR 1" STAPLES ALONG THE UPHILL SIDE OF THE POSTS.
  4. FILTER FABRIC SHALL BE FASTENED TO WOVEN WIRE ACCORDING TO MANUFACTURER'S RECOMMENDATION, OR WITH TIES EVERY 24" AT THE TOP AND MID-SECTIONS.
  5. WHERE TWO PIECES OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED TOGETHER.
  6. WHERE TWO POSTS MEET TO JOIN FENCE SECTIONS, THE TOPS OF THE POSTS SHALL BE SECURED TOGETHER WITH WIRE.
  7. THE FENCE SHALL BE CONSTRUCTED ALONG THE CONTOUR AS MUCH AS POSSIBLE.
  8. ENDS OF FENCES SHALL BE EXTENDED UP THE SLOPE TO PREVENT RUNOFF FROM MIGRATING AROUND THE END OF THE FENCE.
  9. INSPECTION OF THE FENCE SHALL BE PERFORMED WEEKLY, OR IMMEDIATELY AFTER A RAIN EVENT, OR WHEN BULGES APPEAR IN THE FENCE. ACCUMULATED SILT SHALL NOT BE ALLOWED TO EXCEED HALF THE HEIGHT OF THE FABRIC. REPAIR AND OR REPLACEMENT OF DAMAGED FENCE SHALL BE COMPLETED PROMPTLY.
  10. ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE IN SUCH A MANNER THAT IT WILL NOT CONTRIBUTE TO OFF-SITE SILTATION.
  11. ALL FENCING SHALL BE REMOVED WITH THE CONSTRUCTION SITE IS FULLY STABILIZED SO AS TO NOT IMPEDE STORM FLOW OR DRAINAGE.
  12. PRE-FABRICATED UNITS DO NOT REQUIRE THE USE OF WOVEN WIRE FENCE.



- NOTE:**
1. REPAIR ALL RILLS OR GULLIES PRIOR TO INSTALLATION
  2. INSTALL CHECK DAMS IN SWALES PERPENDICULAR TO THE FLOWLINE
  3. STAKE SEDIMENT LOGS IN PLACE WITH 1/2" x 1/2" WOODEN STAKES. DRIVE STAKES AT EACH END OF THE SEDIMENT LOG AT 2' (MAX) SPACING.
  4. DRIVE STAKES INTO UNDISTURBED SOIL OF SWALE BOTTOM 16" (MIN). EXPOSE STAKES 2" MIN ABOVE TOP OF LOG.
  5. PROVIDE SUFFICIENT LENGTH TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE SEDIMENT LOG.
  6. DO NOT USE WITH SWALE GRADE > 5%
- NOTES AND SPECIFICATIONS:**
1. SEDIMENT LOGS SHOULD BE PLACED 180 FT APART BASED ON THE SLOPE OF THE SURFACE.
  2. THERE SHOULD BE THREE SEDIMENT LOGS USED IN THE DRAINAGE DITCH RUNNING SOUTH ALONG SKYLINE DR UNTIL IT MEETS THE LARGE DRAINAGE DITCH THAT RUNS ALONG THE FRONT OF THE DEALERSHIP
  3. SHOULD BE INSTALLED FROM BOC TO THE EDGE OF THE ROW

CHECK DAM SPACING	
G (%)	S (FT)
1	150
2	75
3	50
4	40
5	30

**SEDIMENT LOG**

NOT TO SCALE

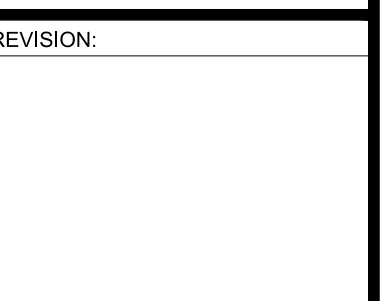
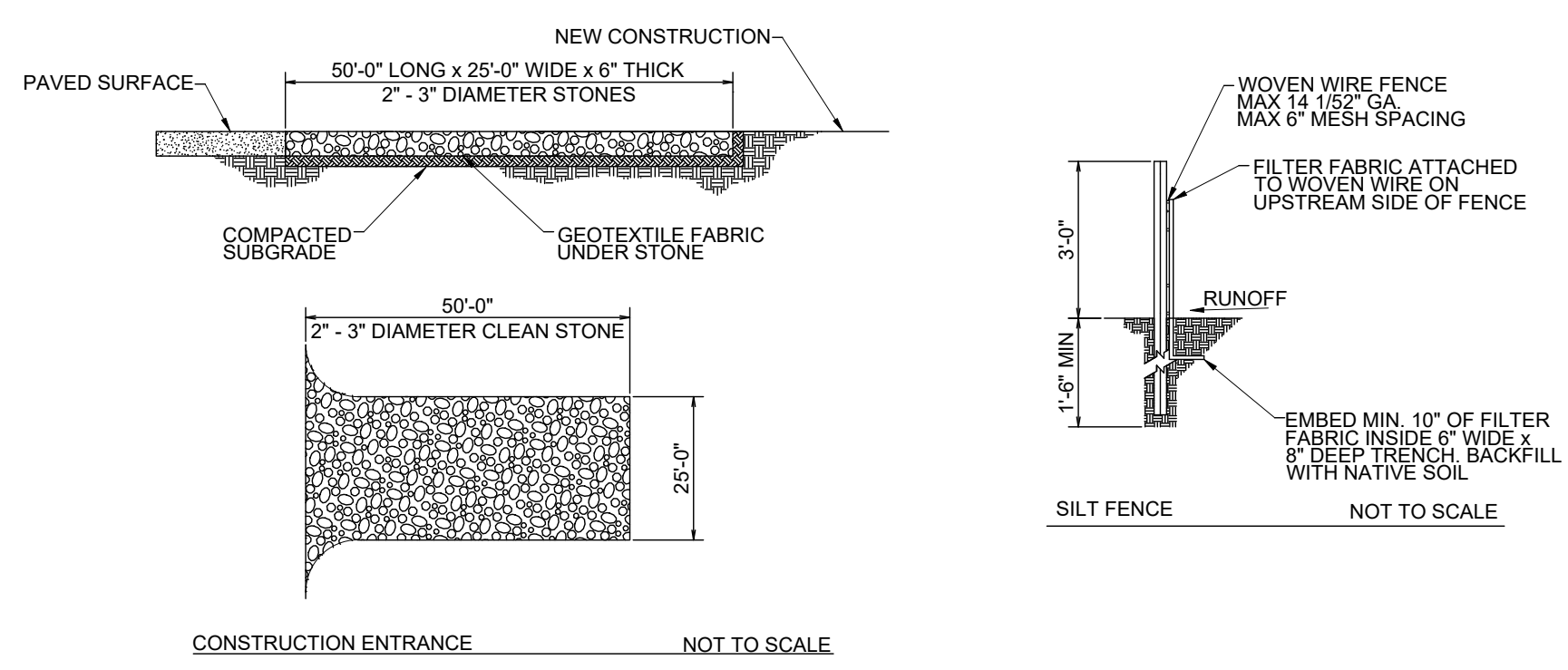
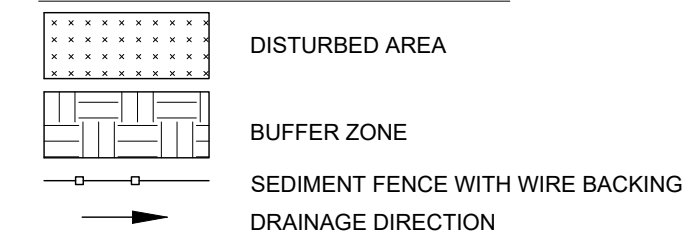
**SWPPP PHASE 2**

SCALE 1" = 50'

**NOTES (GENERAL):**

1. SEE EROSION CONTROL DETAILS IN SWPPP FOR EROSION CONTROL FACILITIES.
2. SEE SWPPP FOR INSTALLATION, MAINTENANCE, INSPECTION, AND RECORD KEEPING REQUIREMENTS.
3. CONTRACTOR SHALL SHOW EROSION CONTROL MEASURES ON SITE MAP.
4. EROSION AND SEDIMENT CONTROL STRUCTURES TO MEET SWPPP DETAILS - APPENDIX D.
5. INSTALL ROCK DITCH CHECKS OR SAND BAG CHECKS AS NECESSARY TO PREVENT SCOUR UNTIL LANDSCAPING IS ESTABLISHED.
6. CONTRACTOR MUST PLACE SEDIMENT BASIN WITH SEDIMENT FENCE OUTLET FOR ANY SEDIMENT CONTAMINATED DEWATERING DISCHARGE.
7. CONTRACTOR TO CONSTRUCT CONCRETE WAS OUT SLUMP, AS NEEDED AND SHOWN ON CONSTRUCTION PLANS. DO NOT DISCHARGE TO SURFACE.
8. FINAL SLOPE WILL BE SAME DIRECTION AS EXISTING SLOPE.

**LEGEND**



REVISION:

**SUMMERWOOD SPORTS GYMNASIUM #3**  
7817 Hwy 5 N  
Bryant, Arkansas

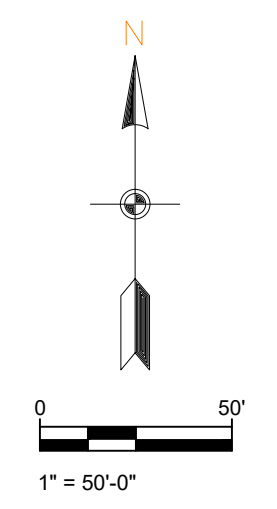
PRELIMINARY  
NOT FOR CONSTRUCTION

PROJECT NUMBER:

SHEET ISSUE DATE:  
09/20/2023

PAGE TITLE:  
SWPPP PH. 2

SHEET NUMBER:  
C1.12







# BRAND BOOK

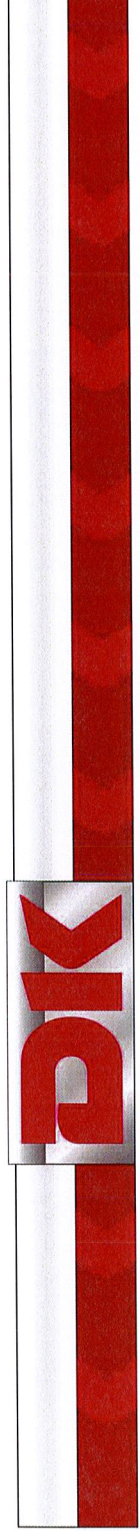
Dak's Market

Address: 2725 Springhill Rd  
Bryant, AR 72022

June 7th, 2023



1312 E. 1st  
Clovis, NM 88101  
1-575-763-5623 Fax: 1-575-763-6365



Created by: Glen Southard	Last Edited by: Glen Southard
Date: 6-8-23	Date: 6-19-23

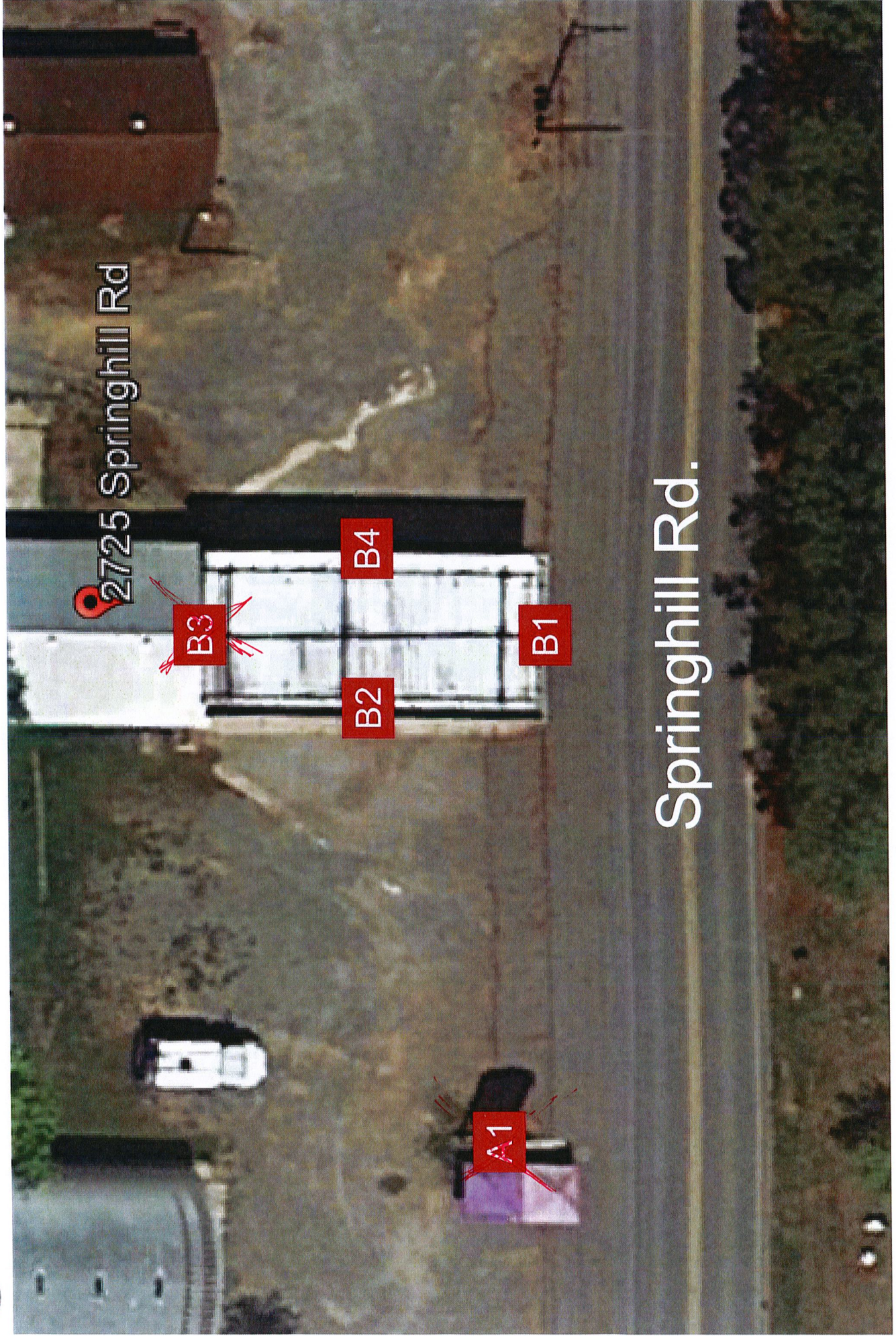




Existing Site











*This Sign Permitted by Separate Application.*  
Pole Sign

Existing



A1

Proposed



ID Sign

Cabinet: 12" Extrusion - White  
 Cabinet: 96 in H x 91.75 in W  
 Retainer: 2" - White  
 Face Material: .177 - White  
 Type: 1st Surface Red Vinyl Letters  
 Face Size: 95 in H x 90.75 in W  
 Visual Opening: 92 in H x 87.75 in W  
 Upper Pan: 89 in H x 85 in W  
 Pan Depth: 2"

Price Sign

Cabinet: 12" Extrusion - White  
 Cabinet: 24 in H x 91.75 in W  
 Retainer: 2" - White  
 Face Material: .177 - White  
 Type: 1st Surface Red/Green Letters  
 Face Size: 23 in H x 90.75 in W  
 Visual Opening: 20 in H x 87.75 in W

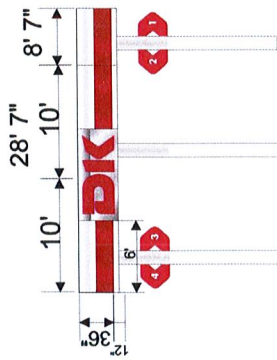
- Poles to be painted White
- Remove Crossbrace at top of Poles
- New MID Cabinet and Faces.
- Reface and Reuse Existing LED Digits in Price Sign



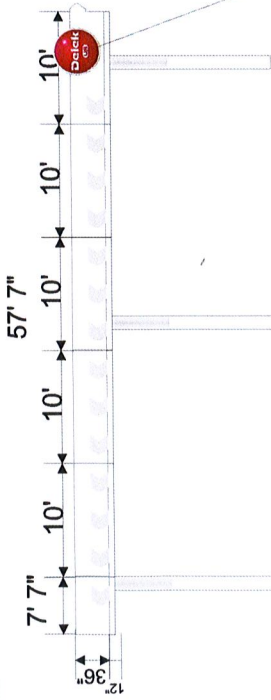


# Canopy 1

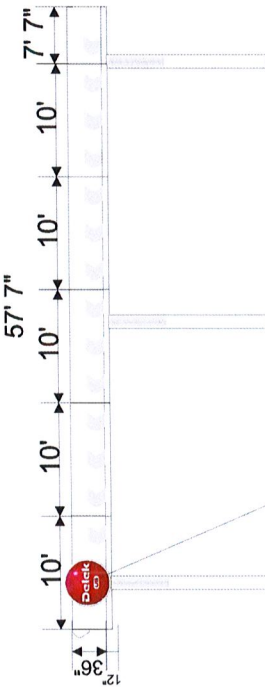
## B1 Red Fascia w/ Vinyl Graphics, Lit DK Logo & Downlighting



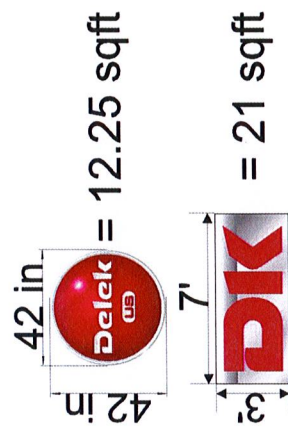
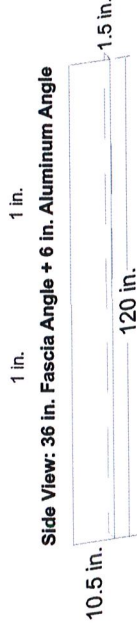
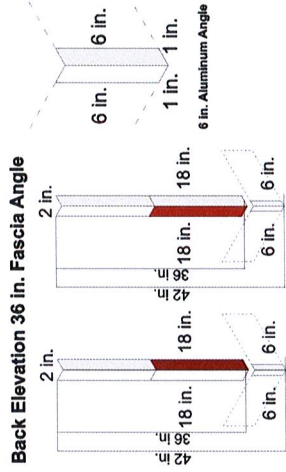
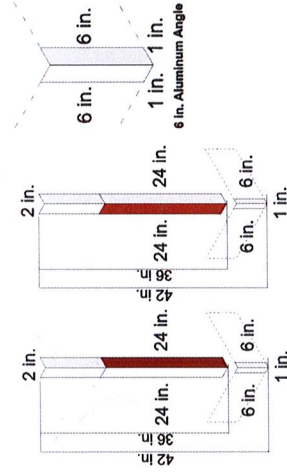
## B2 White Fascia w/ Vinyl Graphics. Lit DK Globe Logo



## B4 White Fascia w/ Vinyl Graphics. Vinyl Globe Logo



## 36 in. Fascia with 6 in. Flashing

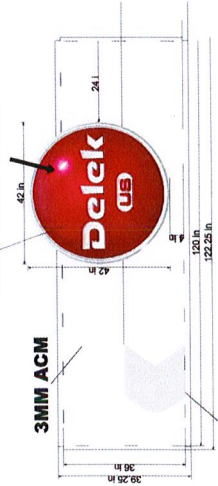


$42 \text{ in} \times 42 \text{ in} = 12.25 \text{ sqft}$

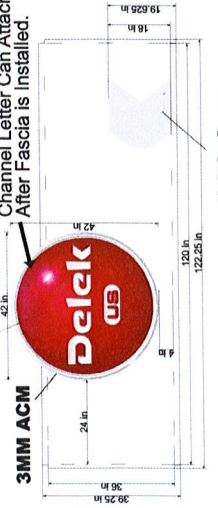
$7 \text{ in} \times 3 \text{ in} = 21 \text{ sqft}$

## 6 in. Flashing

Channel Letter Can Attached After Fascia is Installed.

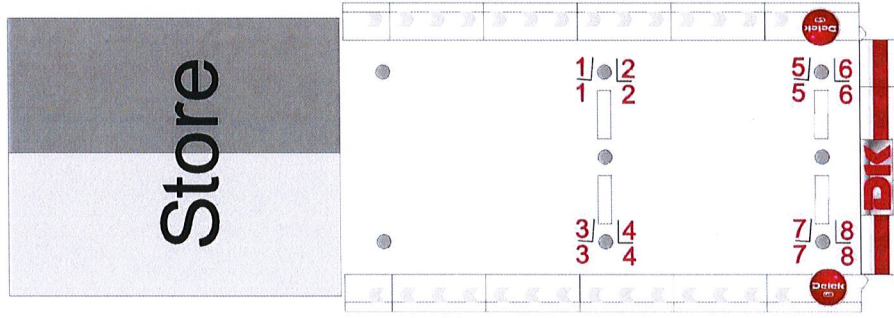


Channel Letter Can Attached After Fascia is Installed.





Pump Flag Layout



----- Springhill Rd. -----



**City of Bryant, Arkansas**  
 Community Development  
 210 SW 3<sup>rd</sup> Street Bryant, AR 72022  
 501-943-0943

## SIGN PERMIT APPLICATION

Applicants are advised to read the Sign Ordinance prior to completing and signing this form. The Sign Ordinance is available at [www.cityofbryant.com](http://www.cityofbryant.com) under the Planning and Community Development tab.

Date: 9/8/23

Note: Electrical Permits may be Required, Please contact the Community Development Office for more information.

**Sign Co. or Sign Owner**

Name EDWARDS SIGN CO.  
 Address 2208 AIRPORT RD.  
 City, State, Zip HOT SPRINGS, AR 71913  
 Phone 501 767 6525  
 Alternate Phone 501 627 6226

**Property Owner**

Name DELER OIL  
 Address 2725 SPRINGHILL RD  
 City, State, Zip BRYANT, AR  
 Phone SAME  
 Alternate Phone \_\_\_\_\_

**GENERAL INFORMATION**

Name of Business SPRINGHILL GROCERY / HH COUNTRY STORE  
 Address/Location of sign 2725 SPRINGHILL RD  
 Zoning Classification C

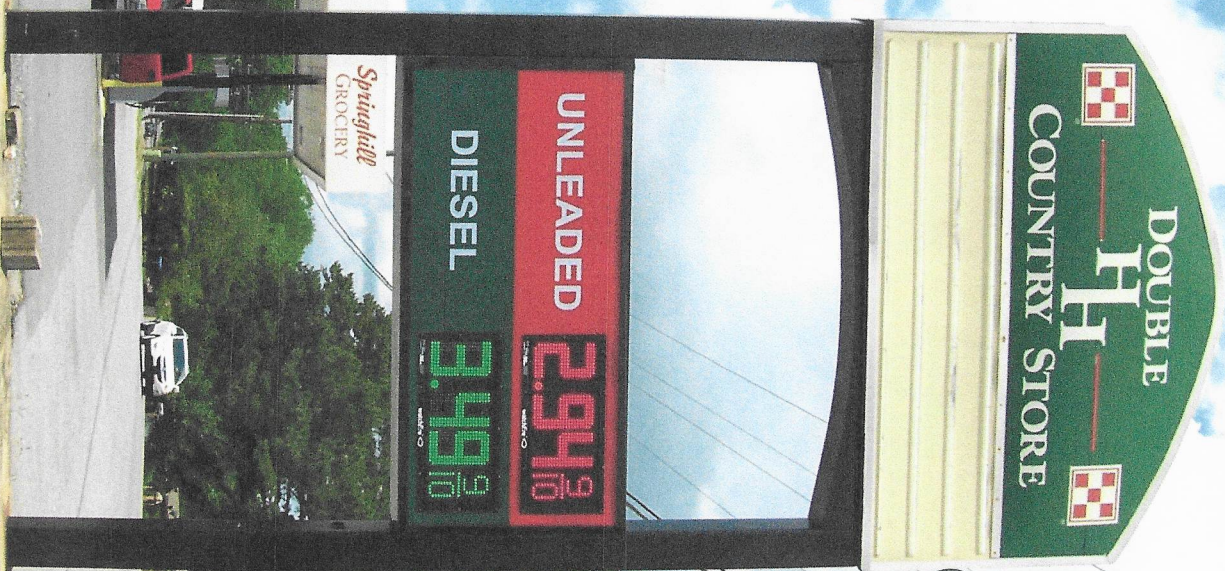
Please use following page to provide details on the signs requesting approval. Along with information provided on this application, a **Site Plan showing placement of sign(s) and any existing sign(s) on the property is required** to be submitted. **Renderings of the sign(s) showing the correct dimensions is also required** to be submitted with the application. A thirty-five dollar (\$35) per sign payment will be collected at the time of permit issuance. According to the Sign Ordinance a fee for and sign variance or special sign permit request shall be one hundred dollars (\$100). Additional documentation may be required by Sign Administrator.

**READ CAREFULLY BEFORE SIGNING**

I [Signature], do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. I further certify that the proposed sign is authorized by the owner of the property and that I am authorized by the property owner to make this application. I understand



EXISTING SIGN



PROPOSED SIGN





that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

SIGN	Type (Façade, Pole, Monument, other)	Dimensions (Height, Length, Width)	Sqft (Measured in whole as rectangle)	Height of Sign (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
	EXISTING					
A	POLE SIGN	96" x 92" x 12"	56	21 FT	13 FT	
B	EXISTING PRICE SIGN	92" x 42"	28	13	9 FT - 6"	
C						
E						
F						
G						

(A) REMOVE EXISTING 108" x 80" CURVED TOP SIGN  
 REPLACE WITH 96" x 92" SQUARE LIGHTED SIGN

(B) CHANGE FACES IN EXISTING 92" x 42" PRICE SIGN