



# Bryant Planning Commission Meeting

Boswell Municipal Complex - City Hall Court Room

210 SW 3rd Street

YouTube: <https://www.youtube.com/c/bryantarkansas>

**Date:** February 12, 2024 - **Time:** 6:00 PM

## Call to Order

## Approval of Minutes

### 1. Planning Commission Meeting Minutes 1/11/2024

- [2024-01-11 Planning Commission Minutes.pdf](#)

## Announcements

## Director's Report

## DRC Report

### 2. 2903 Pikewood Dr - Lot 31A and 31B - Conditional Use Permit

*Veer Investment Properties - Requesting Approval of CUPs for a Duplex on each lot - RECOMMENDED APPROVAL, based on completed application.*

### 3. 2714 Lavern - Short Term Rental - Conditional Use Permit

*Vanessa Guerra - Requesting Approval of CUP for Short Term Rental - RECOMMENDED APPROVAL, Based on completed application. Contingent upon all public hearing requirements being met.*

### 4. Lot 31 and 32 Replat - Pikewood Subdivision - 2903 Pikewood Drive

*Veer Investment Properties - Requesting Approval for Replat - RECOMMENDED APPROVAL, Contingent upon DRC comments being met.*

### 5. AR Storage Center - I-30 Storage - 253000 I-30

*Hope Consulting - Requesting Site Plan Approval - RECOMMENDED APPROVAL, Contingent upon remaining comments being addressed.*

### 6. Summerwood Sports Complex Gym 3 - Revised Plans - HWY 5 and Bryant Parkway

*Phillip Lewis Engineering - Requesting Approval for Revised Site Plan - APPROVED - Contingent upon remaining engineering comments being addressed.*

- [0824-PLN-02.pdf](#)
- [0824-LTR-01.pdf](#)
- [0824-ELV-01.pdf](#)
- [0824-DRN-01.pdf](#)

### **7. Elrod Law Firm - 400 N Reynolds Road - Sign Permit**

*Ace Sign Company - Requesting Sign Permit Approval - APPROVED*

- [0833-APP-01.pdf](#)

### **8. Sharks - 5309 Hwy 5 - Sign Permit**

*Aero Signs - Requesting Sign Permit Approval - STAFF APPROVED*

- [0822-APP-02.jpg](#)

### **9. Sandy's Nails and Spa - 3411 Main Street Ste 4 - Sign Permit**

*Requesting Sign Permit Approval - STAFF APPROVED*

- [0834-APP-01.pdf](#)

### **10. Boutiques and Suites - 107 Progress Way - Sign Permit**

*L. Graphics - Requesting Sign Permit Approval - STAFF APPROVED*

- [0835-APP-01.pdf](#)

## **Public Hearing**

### **11. 2714 Lavern - Short Term Rental - Conditional Use Permit**

*Vanessa Guerra - Requesting Approval of CUP for Short Term Rental*

- [0820-HTC-01.pdf](#)
- [0820-LTR-01.pdf](#)
- [0820-APP-01.pdf](#)

### **12. 3903 Pikewood Drive - Lot 31A - Conditional Use Permit**

*Veer Investment Properties - Requesting Approval of CUP for Duplex*

- [0828-PUB-01.pdf](#)
- [0828-APP-01.pdf](#)

### **13. 3903 Pikewood Drive - Lot 31B - Conditional Use Permit**

*Veer Investment Properties - Requesting Approval of CUP for Duplex*

- [0829-PUB-01.pdf](#)
- [0829-APP-01.pdf](#)

## **Old Business**

## **New Business**

### **14. Lot 31 & 32 Replat - Pikewood Subdivision - 2903 Pikewood Dr**

*Veer Investment Properties - Requesting Approval for Replat*

- [0827-RPLT-02.pdf](#)
- [0827-PLT-01.pdf](#)

### **15. AR Storage Center - I-30 Storage - 253000 I-30**

*Hope Consulting - Requesting Site Plan Approval*

## **Adjournments**



## **Bryant Planning Commission Meeting Minutes**

Monday, January 11, 2024

Boswell Municipal Complex – City Hall Courtroom

6:00 PM

### **Agenda**

#### **CALL TO ORDER**

- Chairman Lance Penfield calls the meeting to order.
- Commissioners Present: Statton, Burgess, Johnson, Penfield, Hooten, Edwards, Erwin, Speed
- Commissioners Absent: None

#### **ANNOUNCEMENTS**

*None*

#### **APPROVAL OF MINUTES**

##### **1. Planning Commission Meeting Minutes 12/11/2023**

*Motion to Approve Minutes made by Commissioner Statton, Seconded by Commissioner Edwards. Voice Vote, 8 Yays, 0 nays. 0 Absent.*

*Vice-Chairman Hooten read the DRC Report.*

#### **DRC REPORT**

##### **2. Five Star Fireworks - Temporary Business Permit**

*Mark Bradford - Requesting Approval for Temporary Business Permits for Firework stands at: (1) 23395 I-30, (2) 5407 HWY 5 APPROVED*

##### **3. The Corner Office - 207 Progress Way - Sign Permit**

*L Graphics - Requesting Approval for Sign Permit - STAFF APPROVED*

- 4. Nail Studio - 5309 Hwy 5, STE 130- Sign Permit**  
*Aero Signs - Requesting Sign Permit Approval - STAFF APPROVED*

**OLD BUSINESS**

**5. Changes to Floodplain Ordinance 2020-04**

*Daran Robertson - Requesting Recommendation on Changes to Existing Floodplain Ordinance*

*Darren Robertson explained the reasoning behind the request to change the ordinance. After discussion, the Commission recommended that some of the changes be revised to allow for a variance in specific situations for the purpose of allowing roadway or access. Roll call vote to recommend the ordinance changes to City Council contingent upon the revisions being added. 8 yays, 0 nays, 0 absent.*

**NEW BUSINESS**

**6. Lombard Heights Ph. 2 - Changing of Street Name**

*Requesting Approval for Changing of Street Name from Midway Dr. to Midway Ave. Letter of map revision requested.*

*After brief discussion on the item, Chairman Penfield Called for a roll call vote to approve. 8 yays, 0 nays, 0 Absent.*

**DIRECTOR'S REPORT**

*Truett Smith let the Commission know about a google calendar created that lists all of the Planning Commission and DRC meeting dates. He told the commissioners that if they were interested in having it shared with them to let him know.*

**ADJOURNMENT**

*Motion to Adjourn made by Commissioner Statton, Seconded by Commissioner Burgess. Voice Vote, 8 Yays, 0 nays. 0 Absent. Meeting was adjourned.*

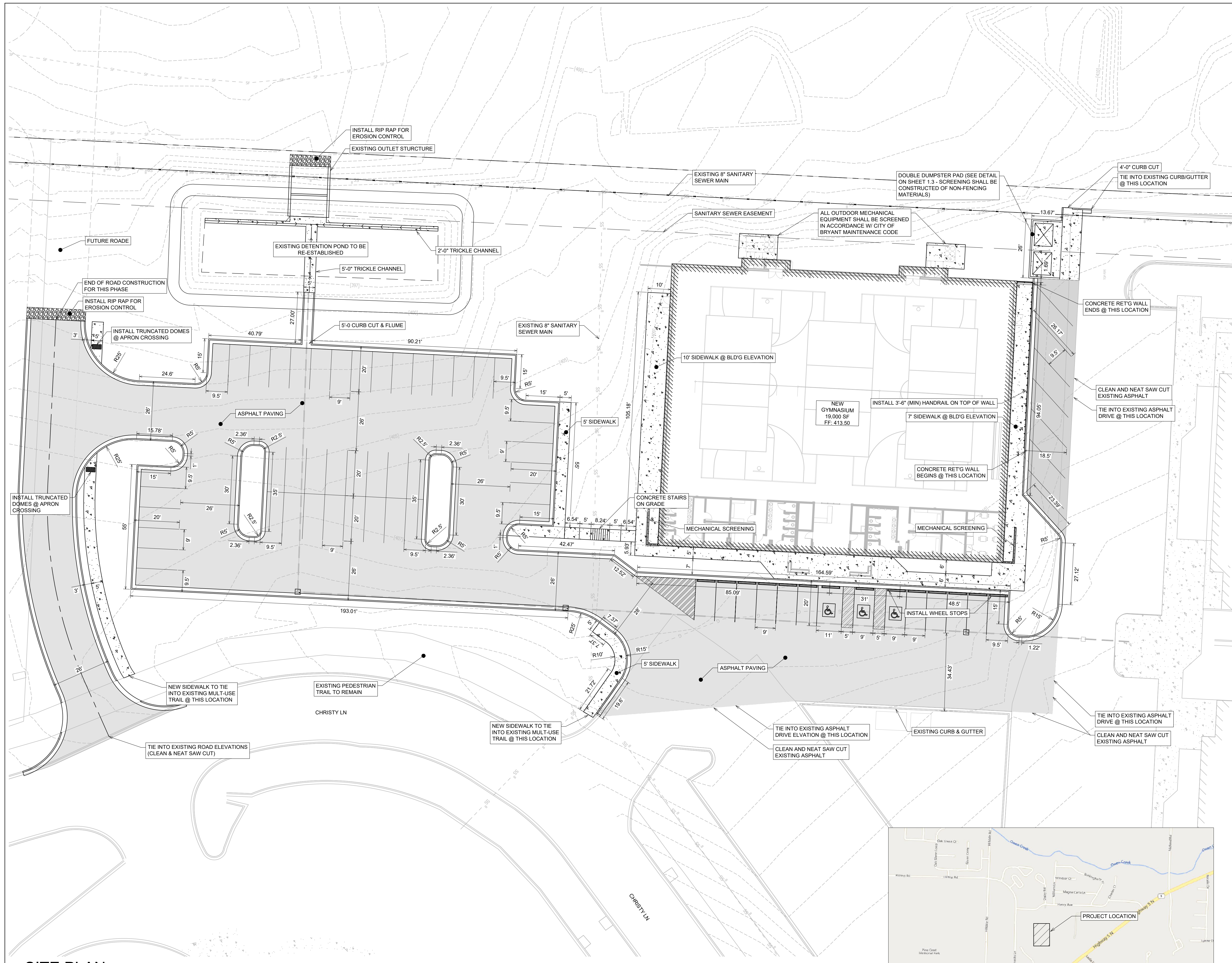
\_\_\_\_\_  
*Chairman, Lance Penfield*

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*Date*

\_\_\_\_\_  
*Secretary, Tracy Picanco*

\_\_\_\_\_  
*Date*





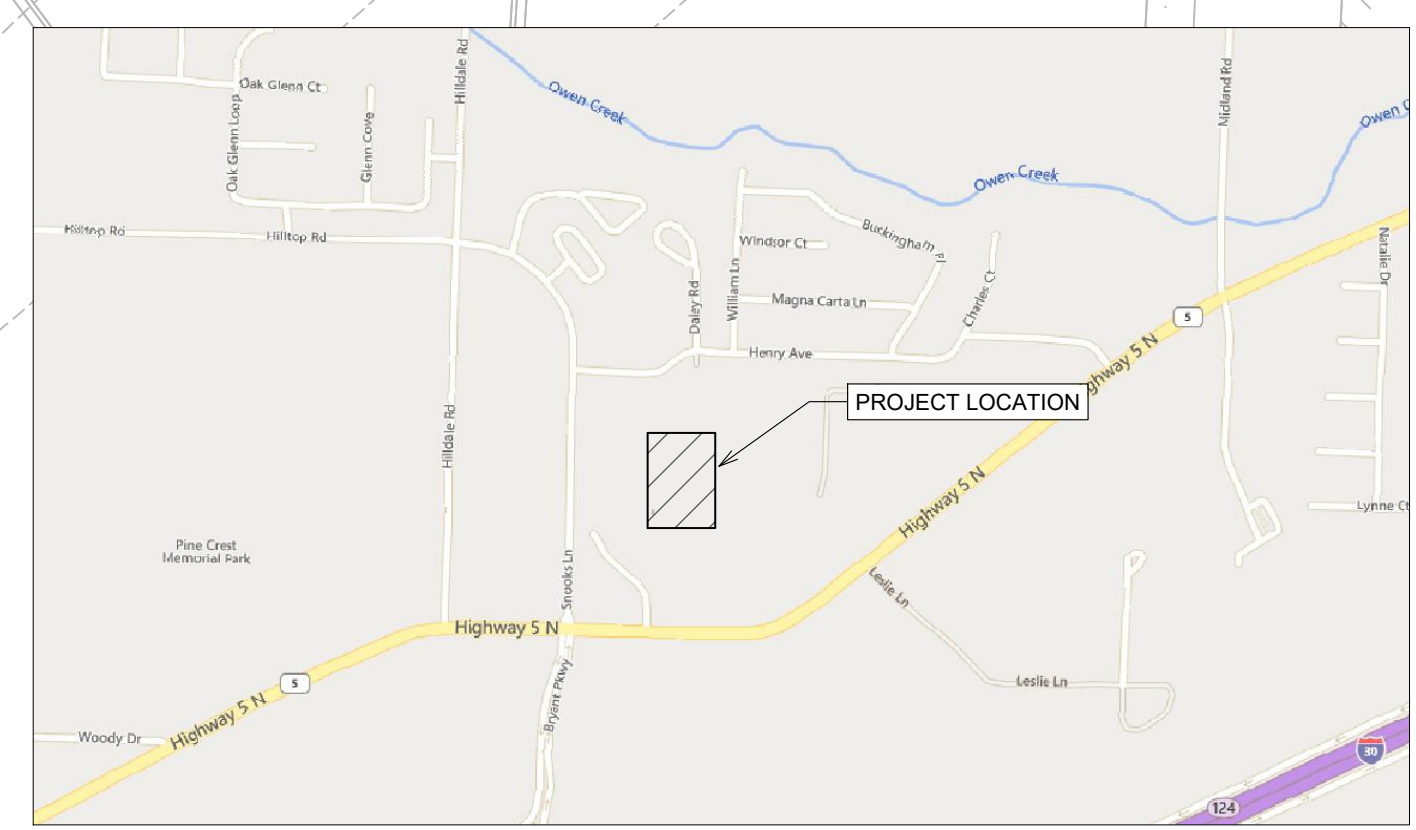
**GENERAL CONSTRUCTION NOTES**

- 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. 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.
- H. 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.
- I. 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.

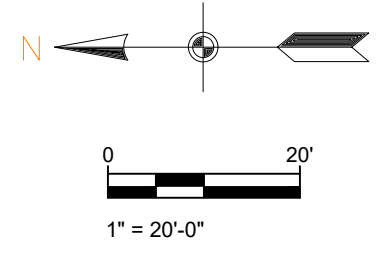
**SITE PLAN**

1. 64 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.

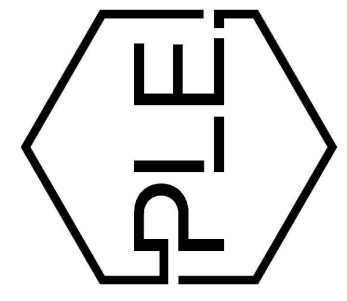
SCALE 1" = 20'



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

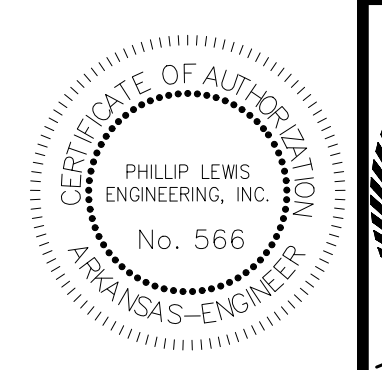


**PHILLIP LEWIS ENGINEERING, INC.**  
Structural + Civil Consultants  
23620 Interstate 30 | Bryant, Arkansas  
PH: 501-350-9840



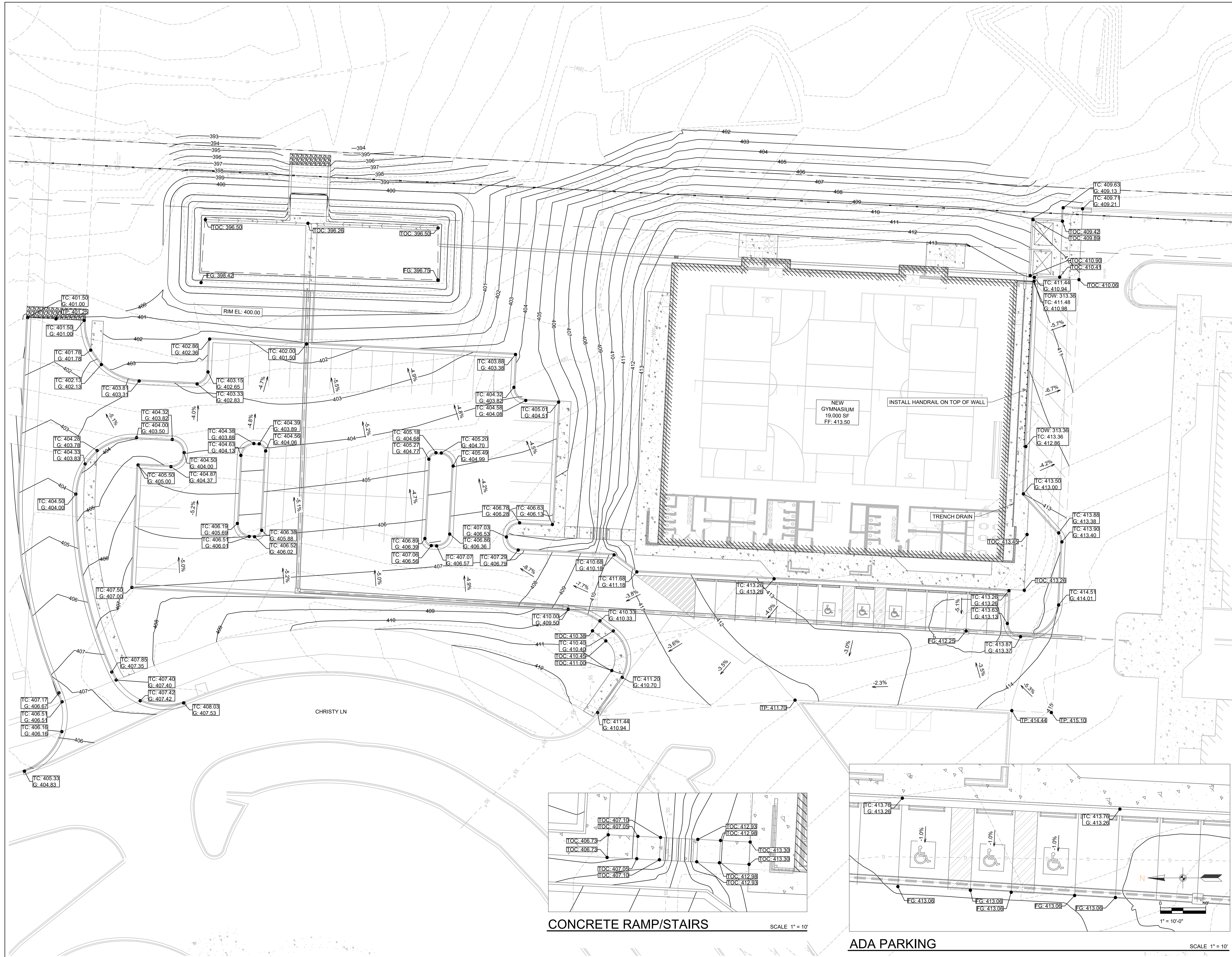
REVISION:

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



PROJECT NUMBER:  
SHEET ISSUE DATE: 1/10/2024  
PAGE TITLE: **SITE PLAN**  
SHEET NUMBER: **C1.1**

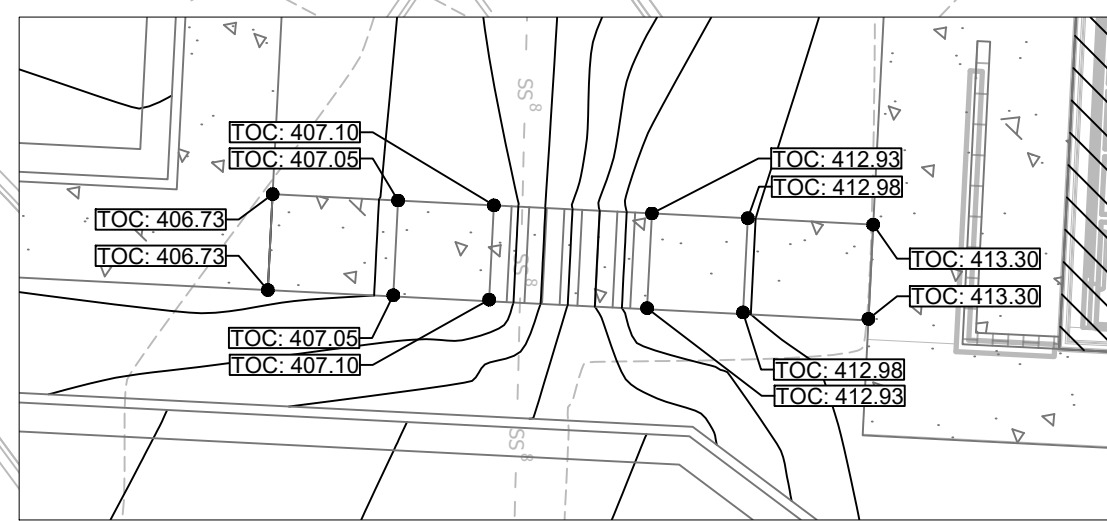




### GRADING PLAN

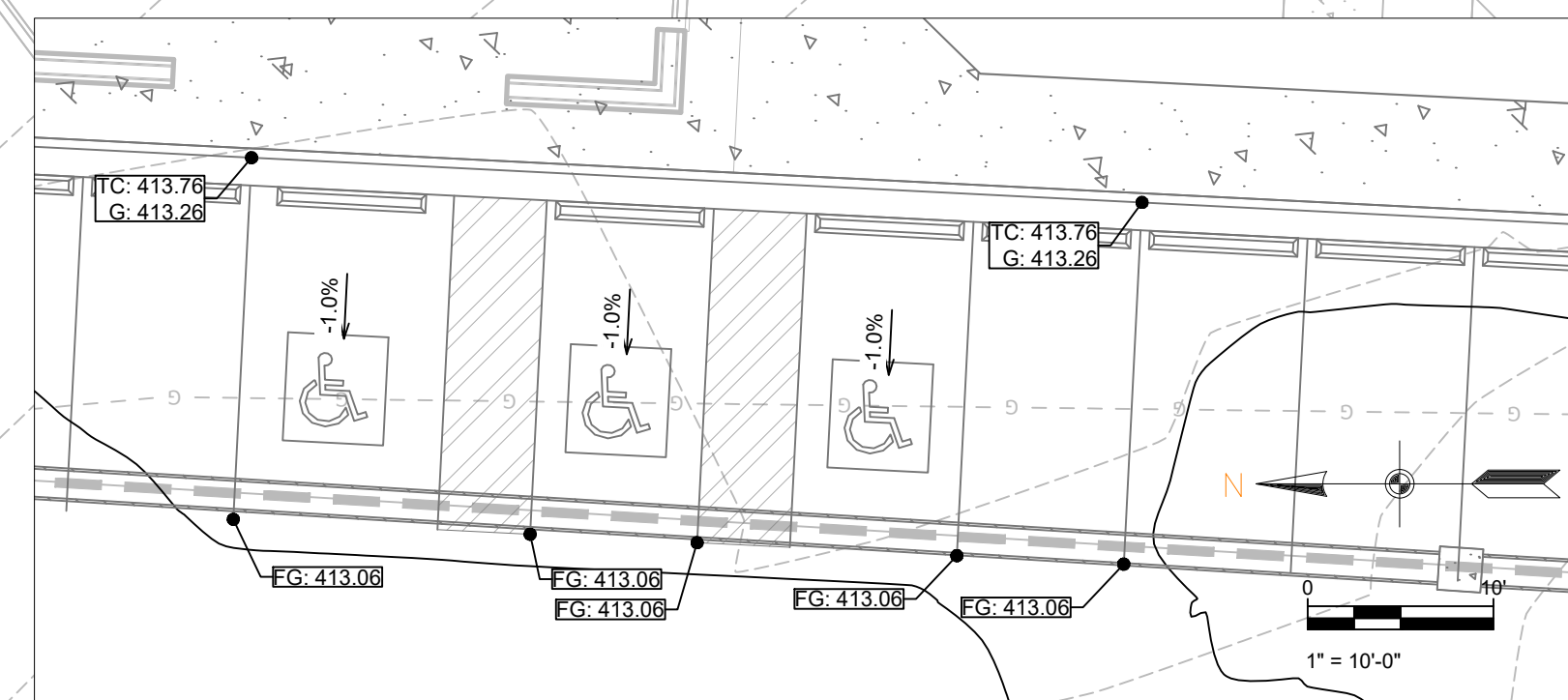
- G = GUTTER ELEVATION
- TP = TOP OF PAVEMENT ELEVATION
- TOC = TOP OF CONCRETE ELEVATION
- FG = FINAL GRADE ELEVATION (NON PAVED AREAS)
- TC = TOP OF CURB ELEVATION
- TOW = TOP OF WALL

SCALE 1" = 20'



CONCRETE RAMP/STAIRS

SCALE 1" = 10'



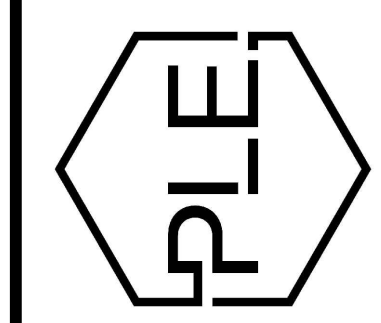
ADA PARKING

SCALE 1" = 10'

### GENERAL CONSTRUCTION NOTES

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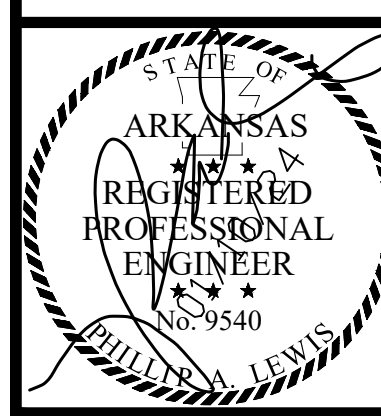
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PROJECT NUMBER:

SHEET ISSUE DATE:  
1/10/2024

PAGE TITLE:  
GRADING PLAN

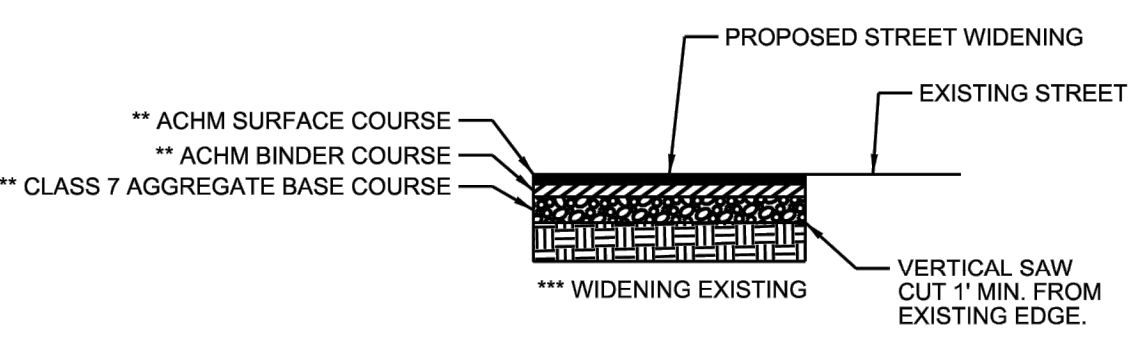
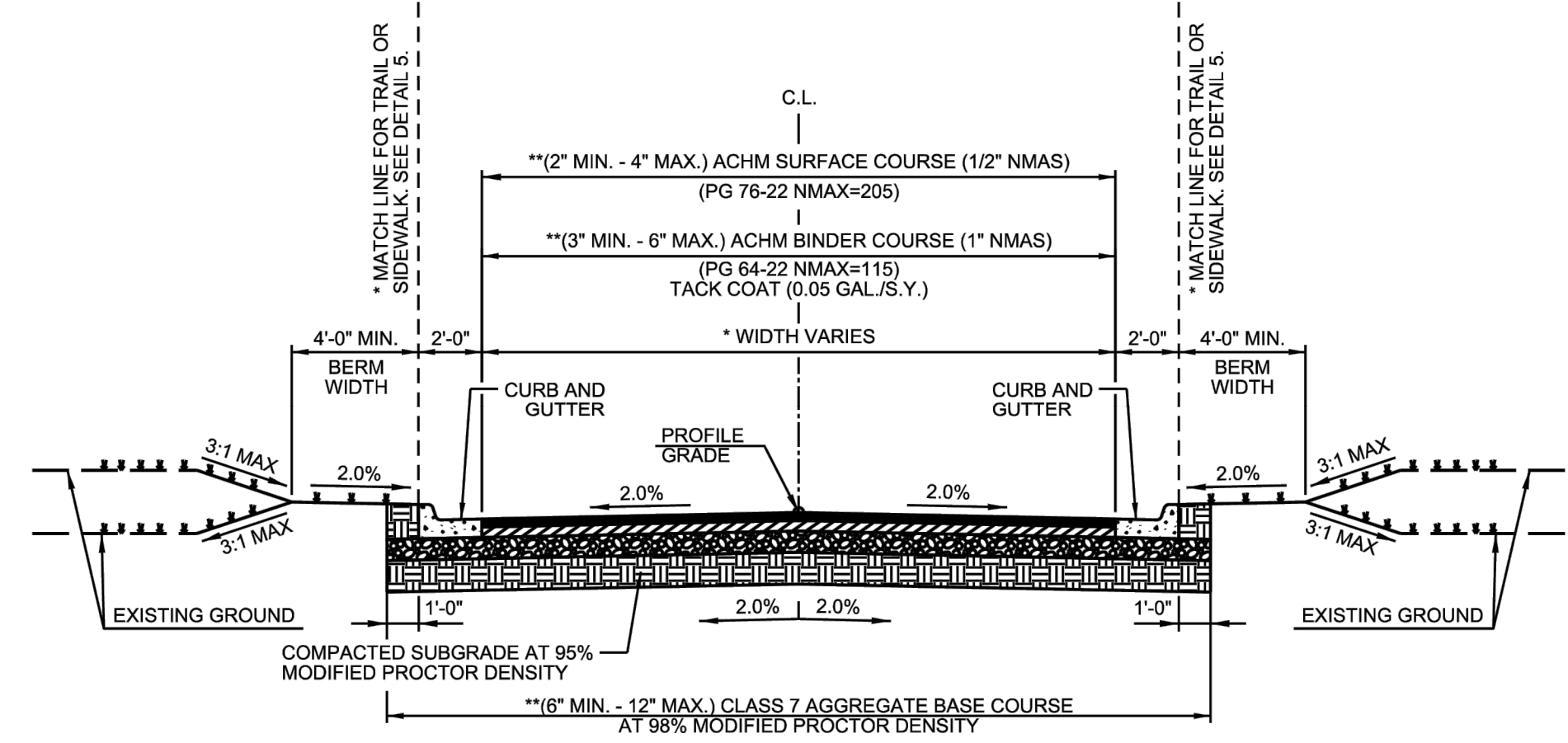
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C1.2



PHILLIP LEWIS ENGINEERING, INC.  
No. 566  
ARKANSAS-ENGINEER

1" = 20'-0"





- 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.
- GENERAL NOTES**
- \* 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.

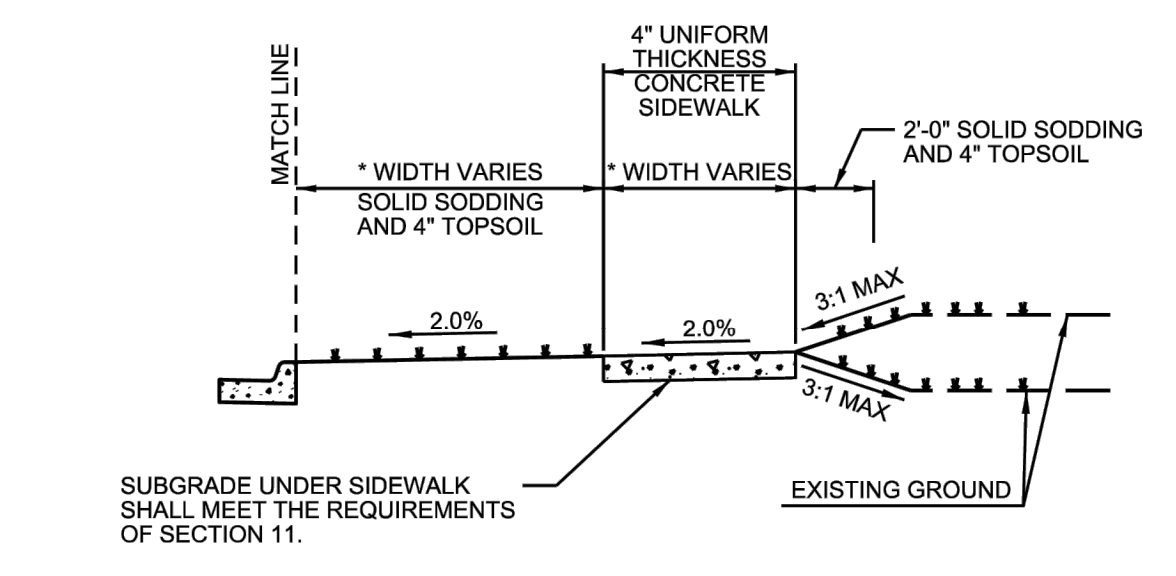
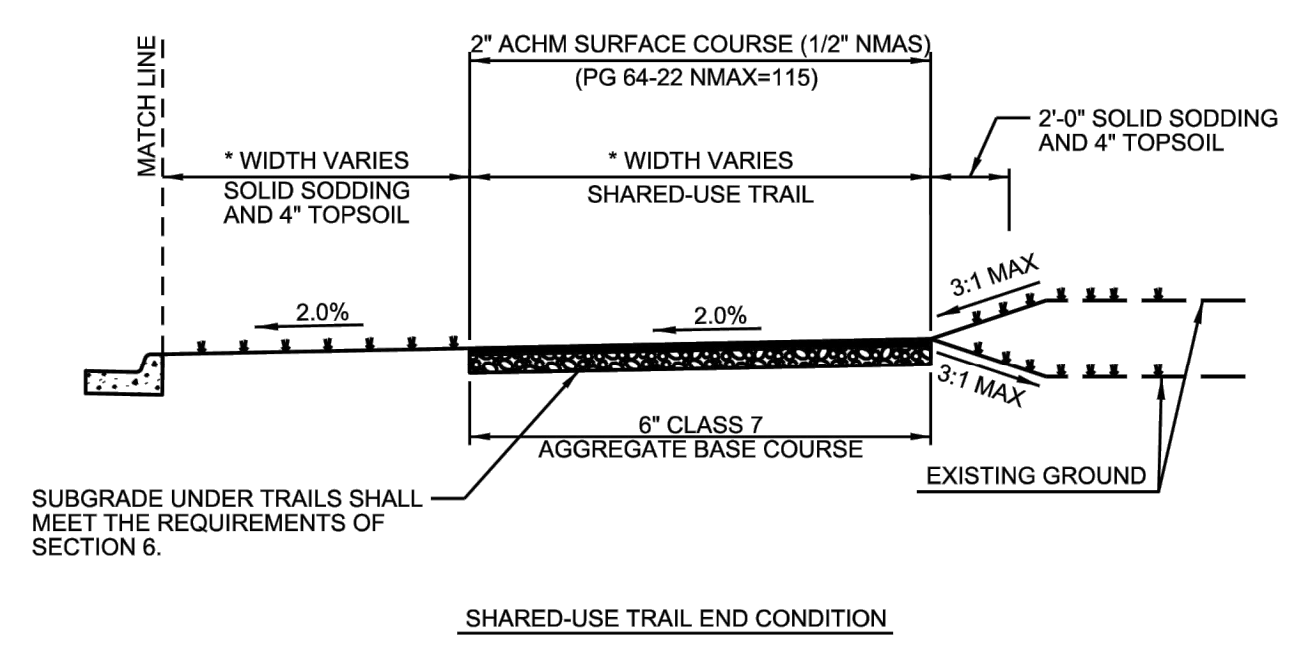
**CITY OF BRYANT**

**TYPICAL SECTION MINOR ARTERIAL**

ISSUE DATE: AUGUST 2021

REVISION DATE:

**DETAIL 1**



\* 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.

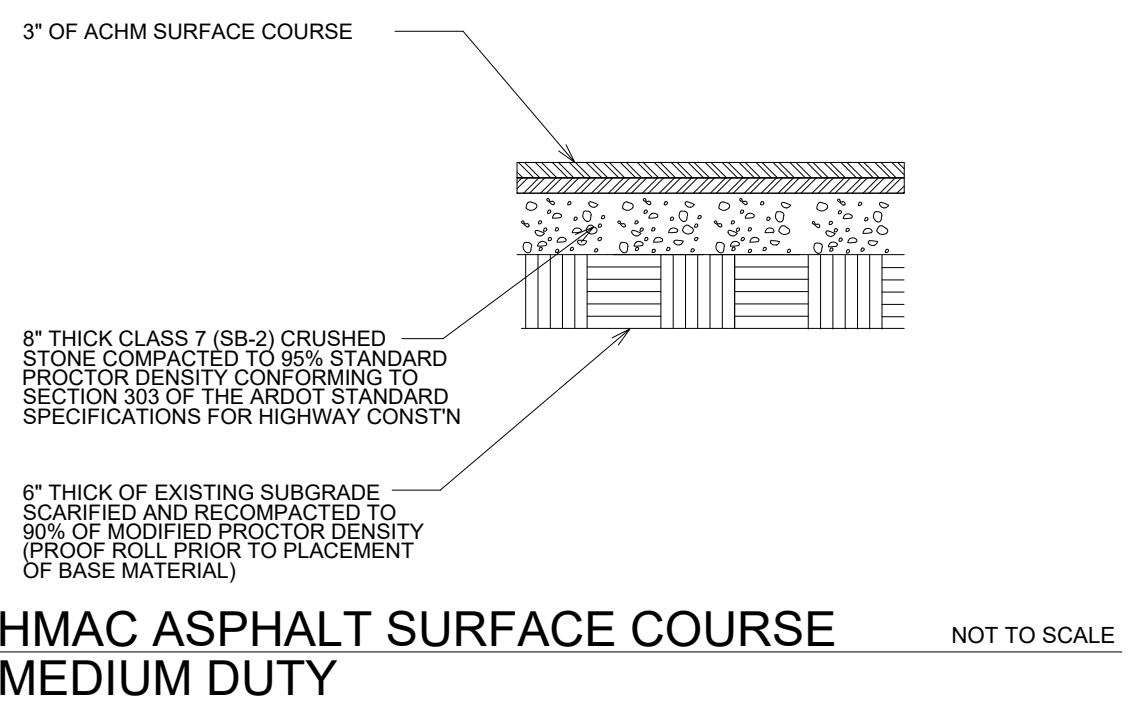
**CITY OF BRYANT**

**TYPICAL SECTION END CONDITIONS**

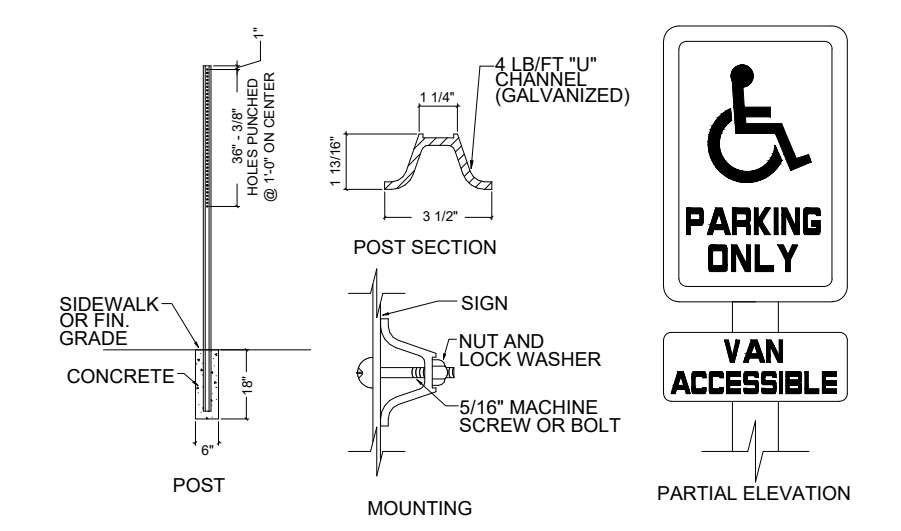
ISSUE DATE: AUGUST 2021

REVISION DATE:

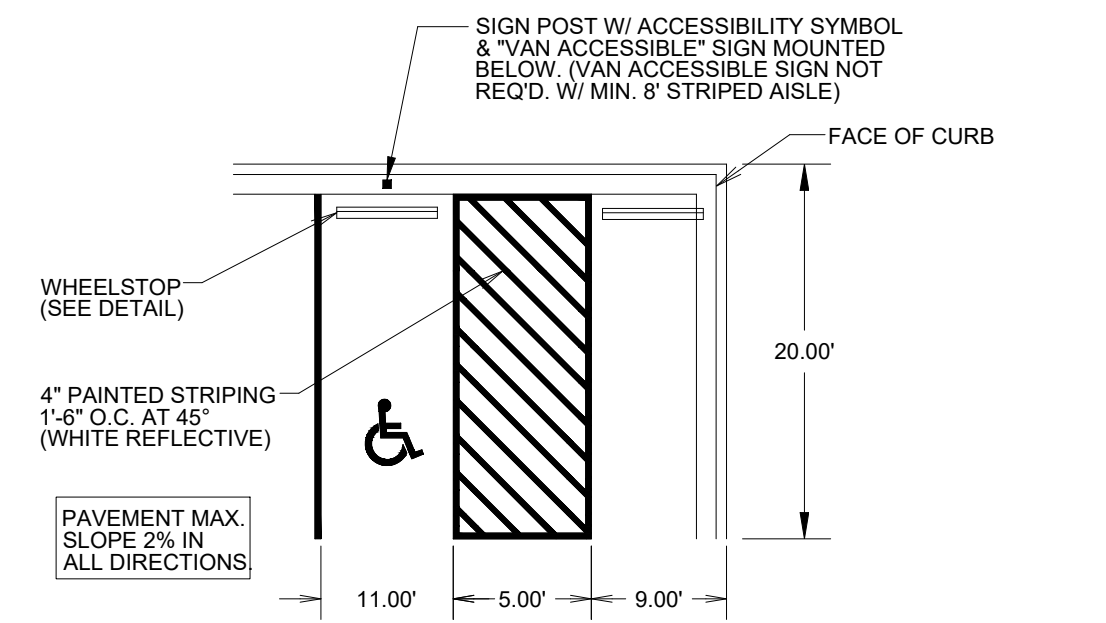
**DETAIL 5**



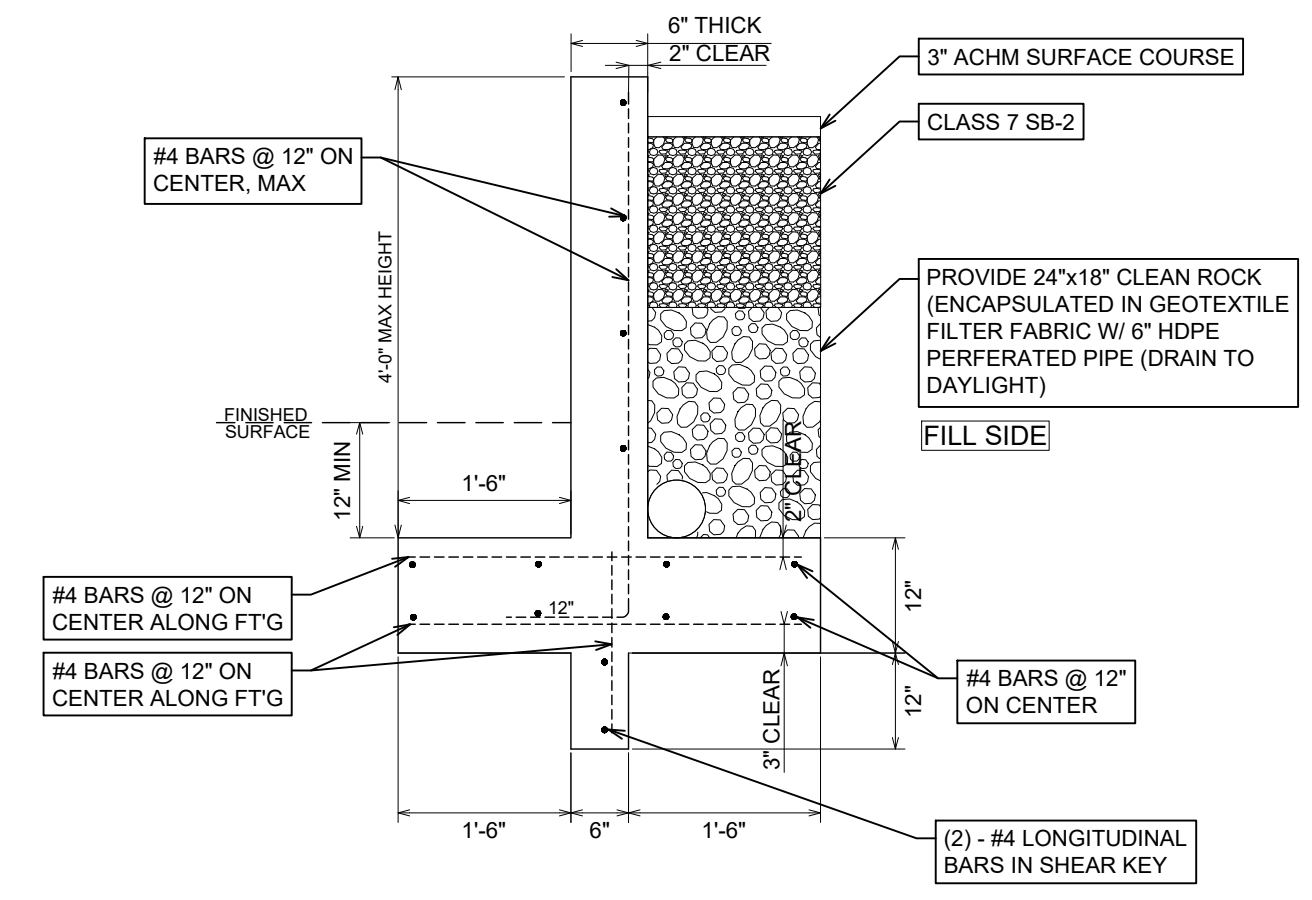
**HMAC ASPHALT SURFACE COURSE MEDIUM DUTY** NOT TO SCALE



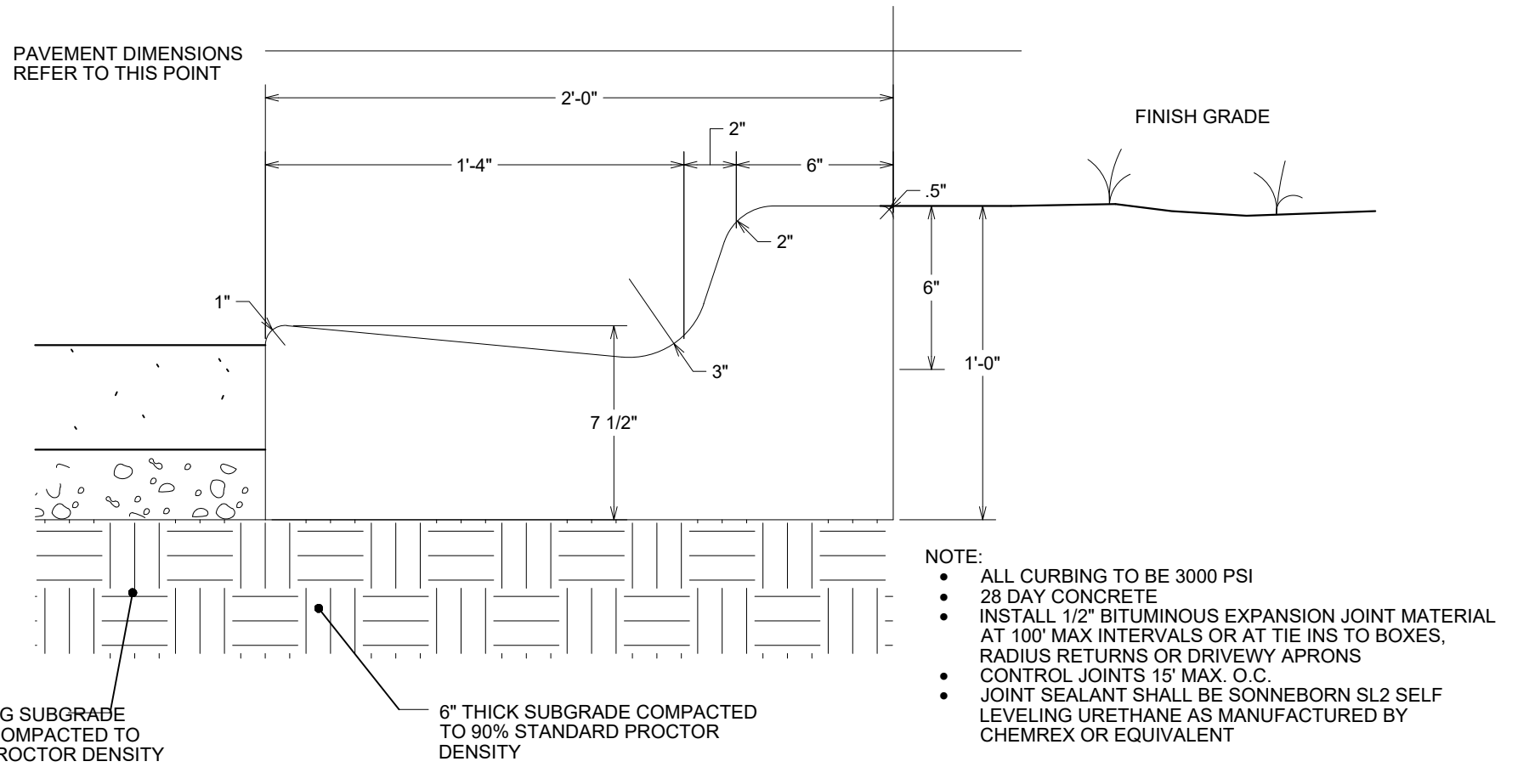
**HANDICAP SIGN DETAIL** NOT TO SCALE



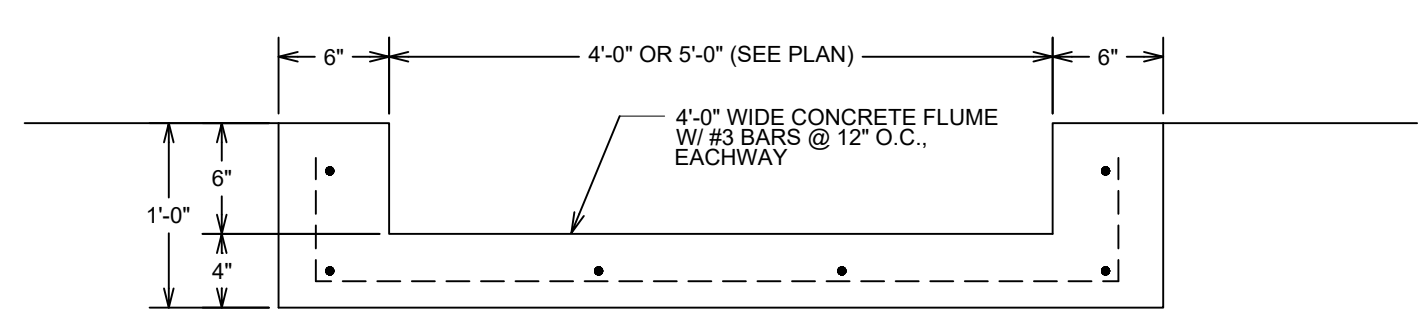
**TYPICAL ACCESSIBLE PARKING STALLS**



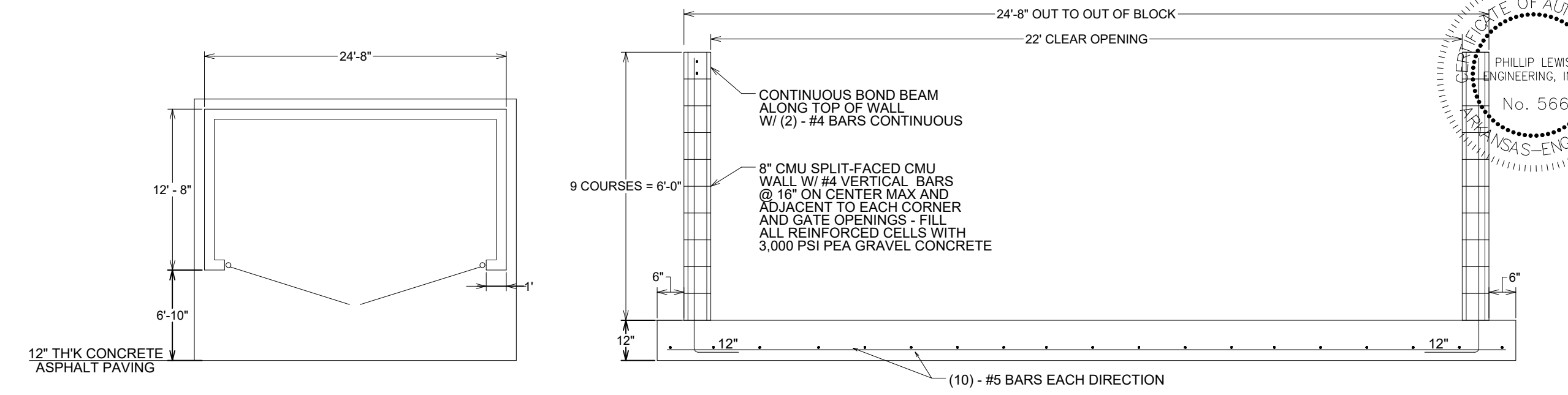
**RETAINING WALL** NOT TO SCALE



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

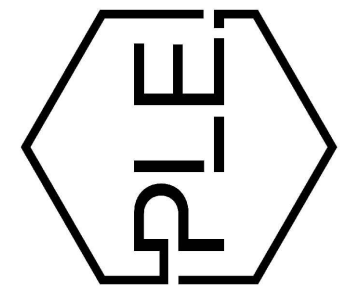


**CONCRETE FLUME DETAIL** NOT TO SCALE



**DUMPSTER PAD/ENCLOSURE DETAIL** NOT TO SCALE

**PHILLIP LEWIS ENGINEERING, INC.**  
Structural + Civil Consultants  
23620 Interstate 30 | Bryant, Arkansas  
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REVISION:

**REVISION DATE**

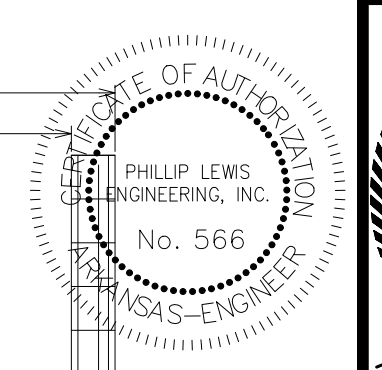
**SUMMERWOOD SPORTS GYMNASIUM #3**  
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PROJECT NUMBER:

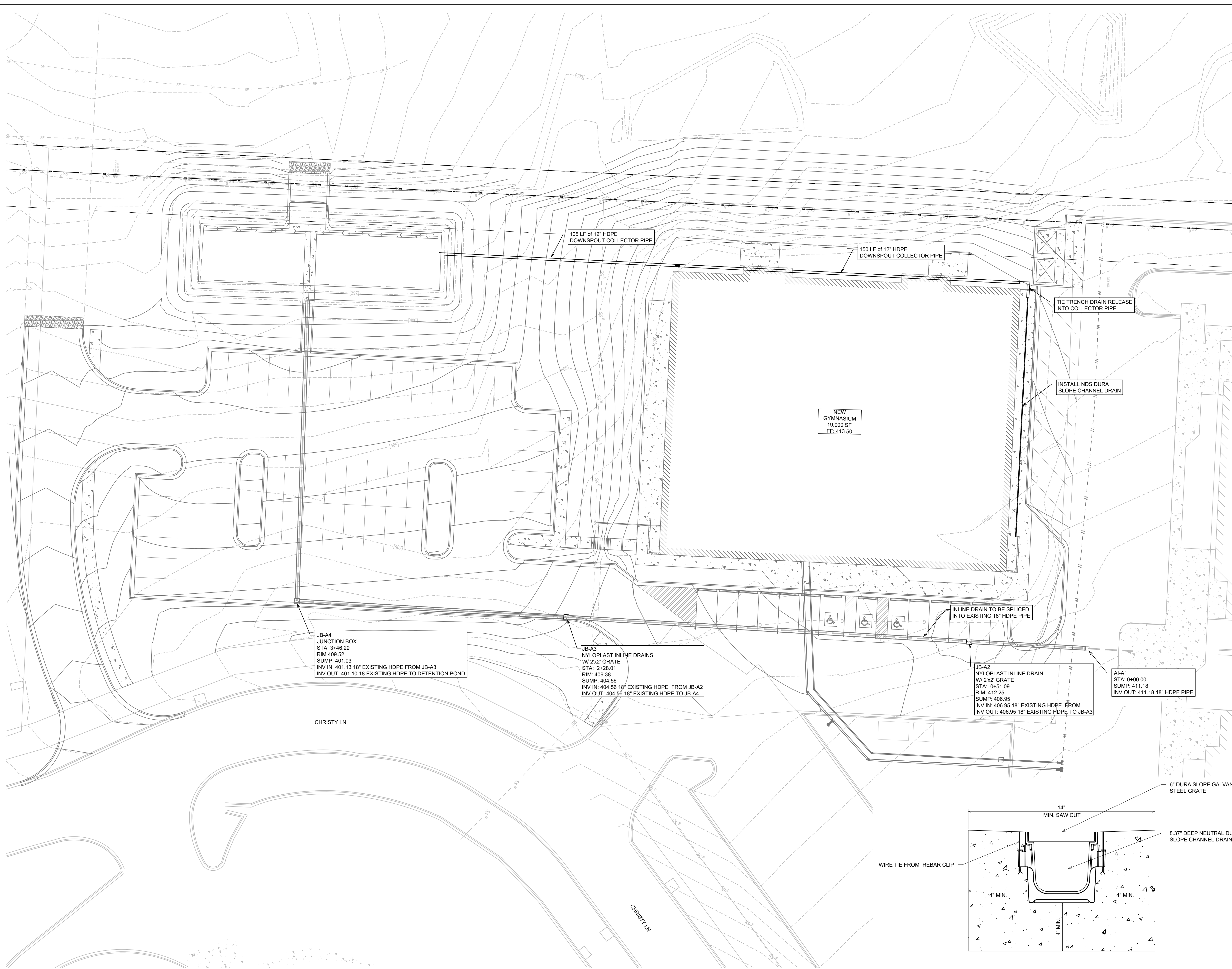
SHEET ISSUE DATE: 1/10/2024

PAGE TITLE: SITE DETAILS

SHEET NUMBER: C1.3







**STORMWATER PLAN**

SCALE 1" = 20'

**GENERAL CONSTRUCTION NOTES**

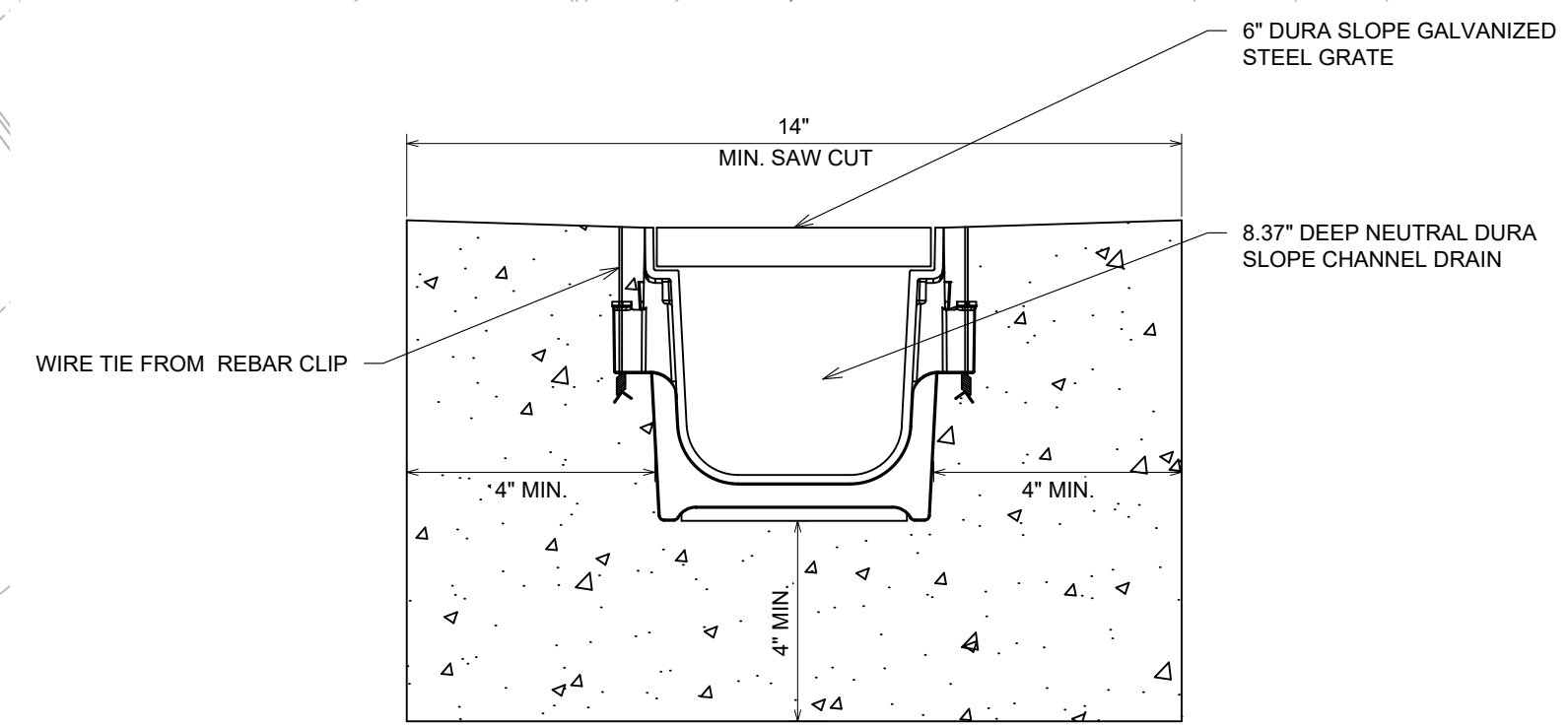
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- I. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS 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.

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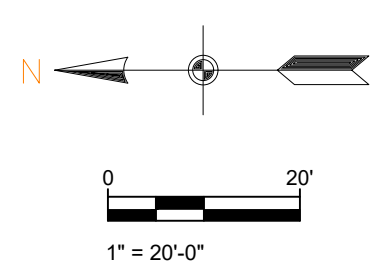
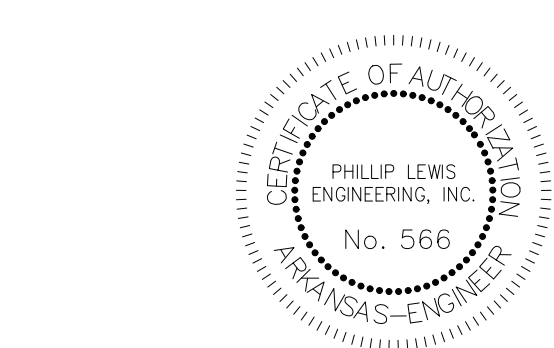
**SUMMERWOOD SPORTS GYMNASIUM #3**  
 7817 Hwy 5 N  
 Bryant, Arkansas

PROJECT NUMBER:  
 SHEET ISSUE DATE: 1/10/2024  
 PAGE TITLE: STORMWATER PLAN  
 SHEET NUMBER: C1.4

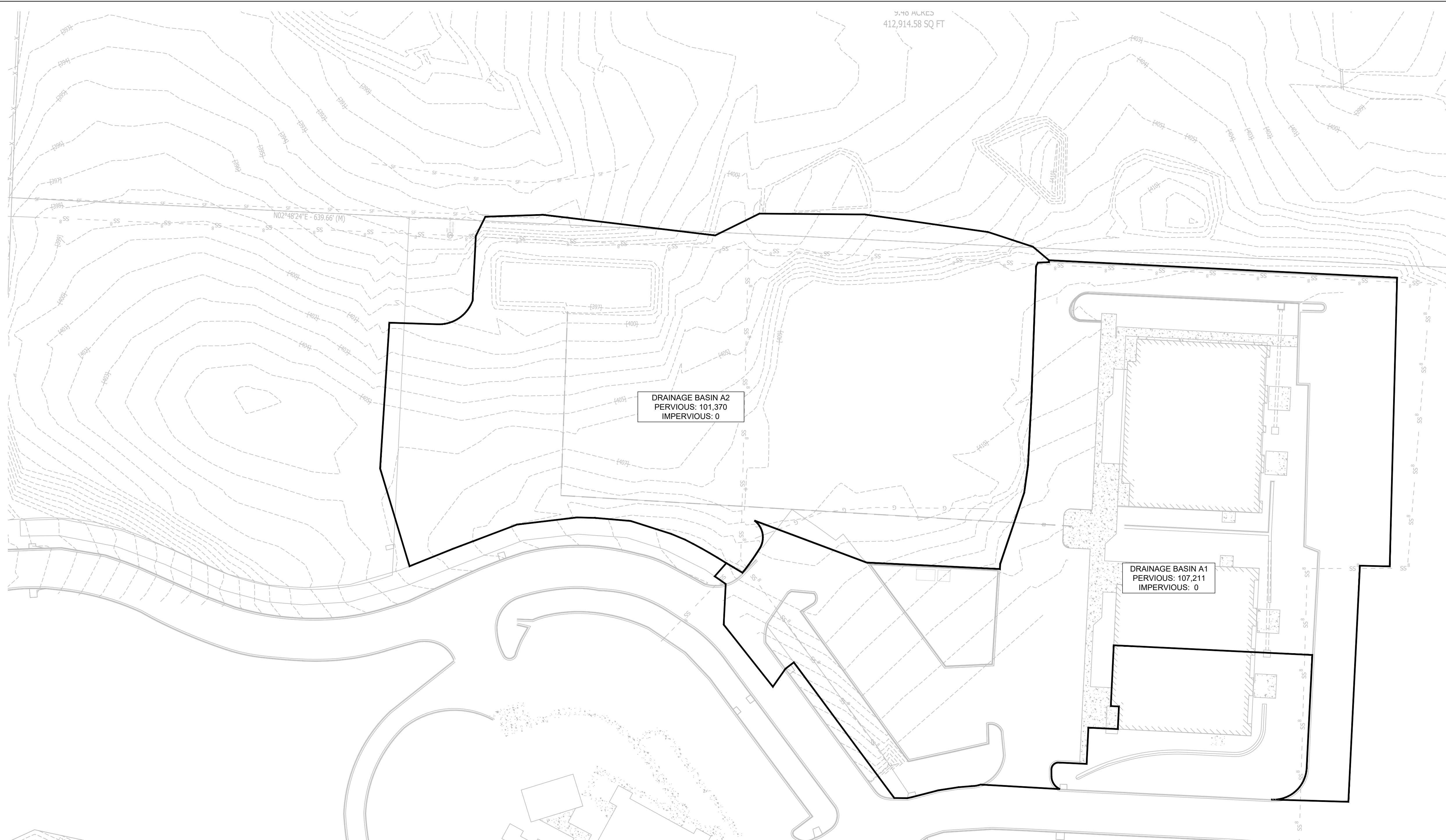


- NOTES:
1. CHANNELS TO BE INSTALLED WITH GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR.
  2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

**NDS DURA SLOPE CHANNEL DRAIN SYSTEM**  
 TYPICAL CHANNEL DRAIN DETAIL. INSTALL SPECIFIED DRAIN SERIES OR SIMILAR LOAD RATING SERIES.







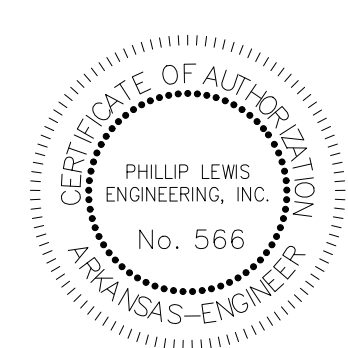
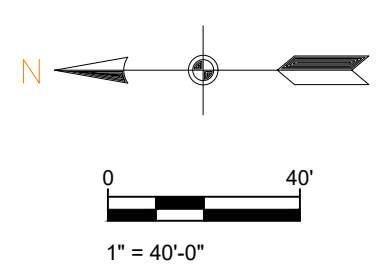
3.40 ALKED  
412,914.58 SQ FT

DRAINAGE BASIN A2  
PERVIOUS: 101,370  
IMPERVIOUS: 0

DRAINAGE BASIN A1  
PERVIOUS: 107,211  
IMPERVIOUS: 0

PRE-DEV DRAINAGE MAP

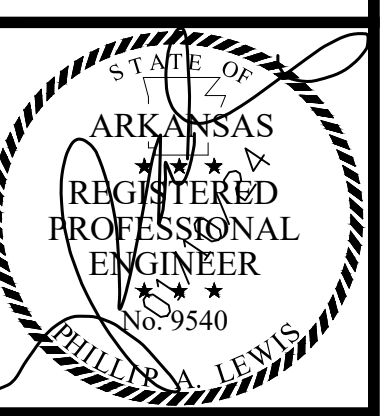
SCALE 1" = 40'



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REVISION:

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



PROJECT NUMBER:

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1/10/2024

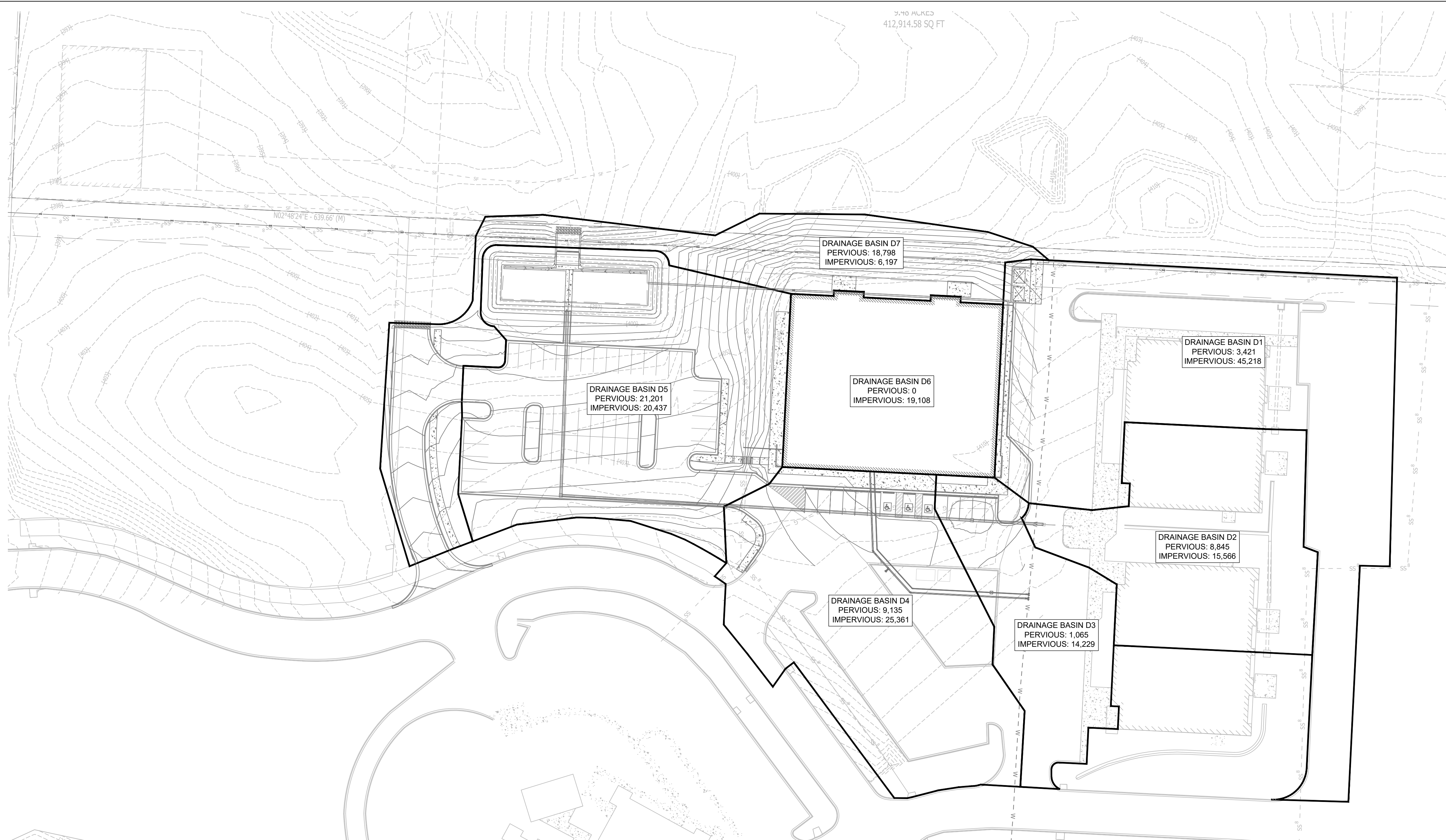
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PRE-DEV DRAINAGE MAP

SHEET NUMBER:

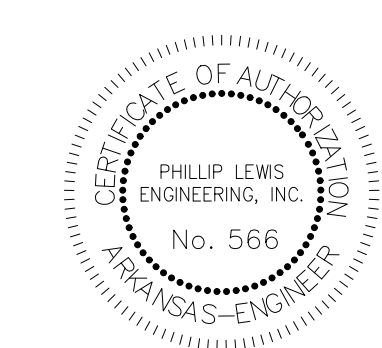
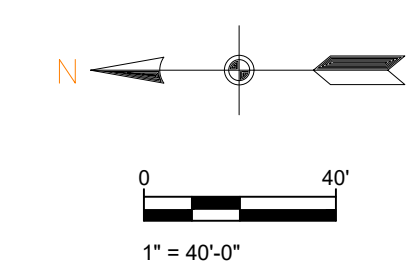
C1.5





POST-DEV DRAINAGE MAP

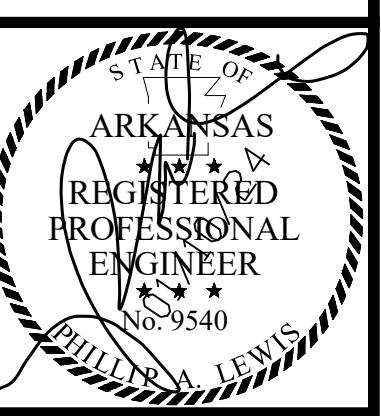
SCALE 1" = 40'



REVISION:

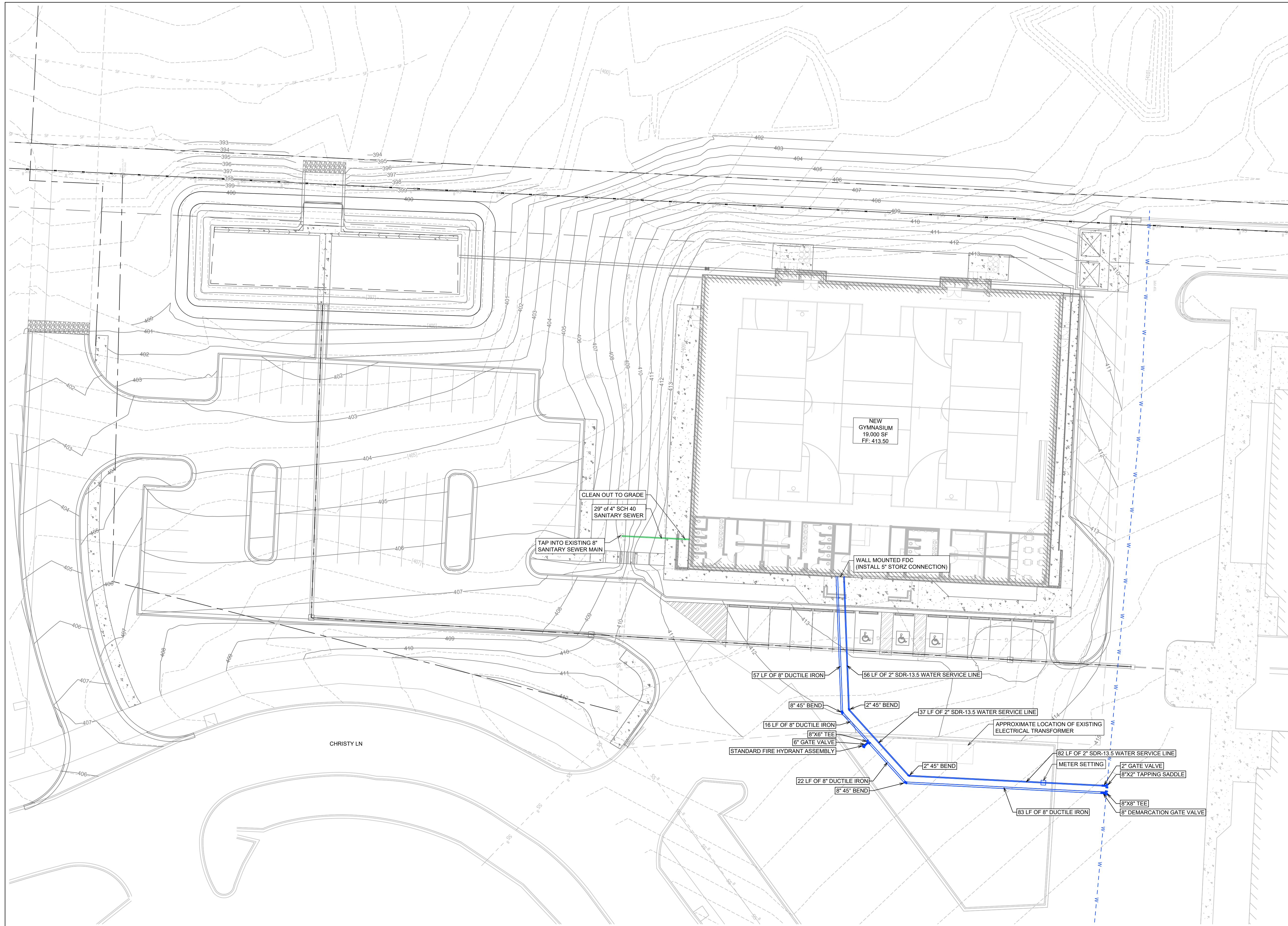
**SUMMERWOOD SPORTS GYMNASIUM #3**  
7817 Hwy 5 N  
Bryant, Arkansas

PROJECT NUMBER:  
SHEET ISSUE DATE:  
PAGE TITLE:



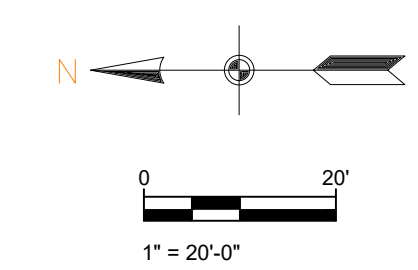
POST-DEV DRAINAGE MAP  
SHEET NUMBER:  
**C1.6**





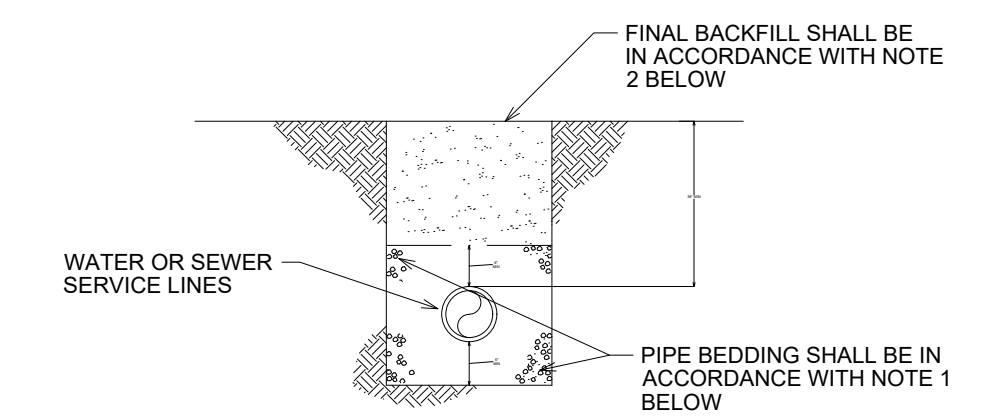
UTILITY PLAN

SCALE 1" = 20'



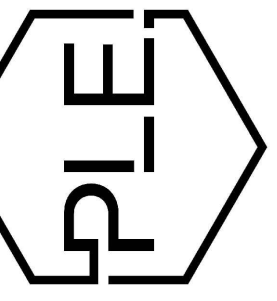
GENERAL CONSTRUCTION NOTES

- 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. 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.
- H. 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.
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- J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.



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 D998. 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.

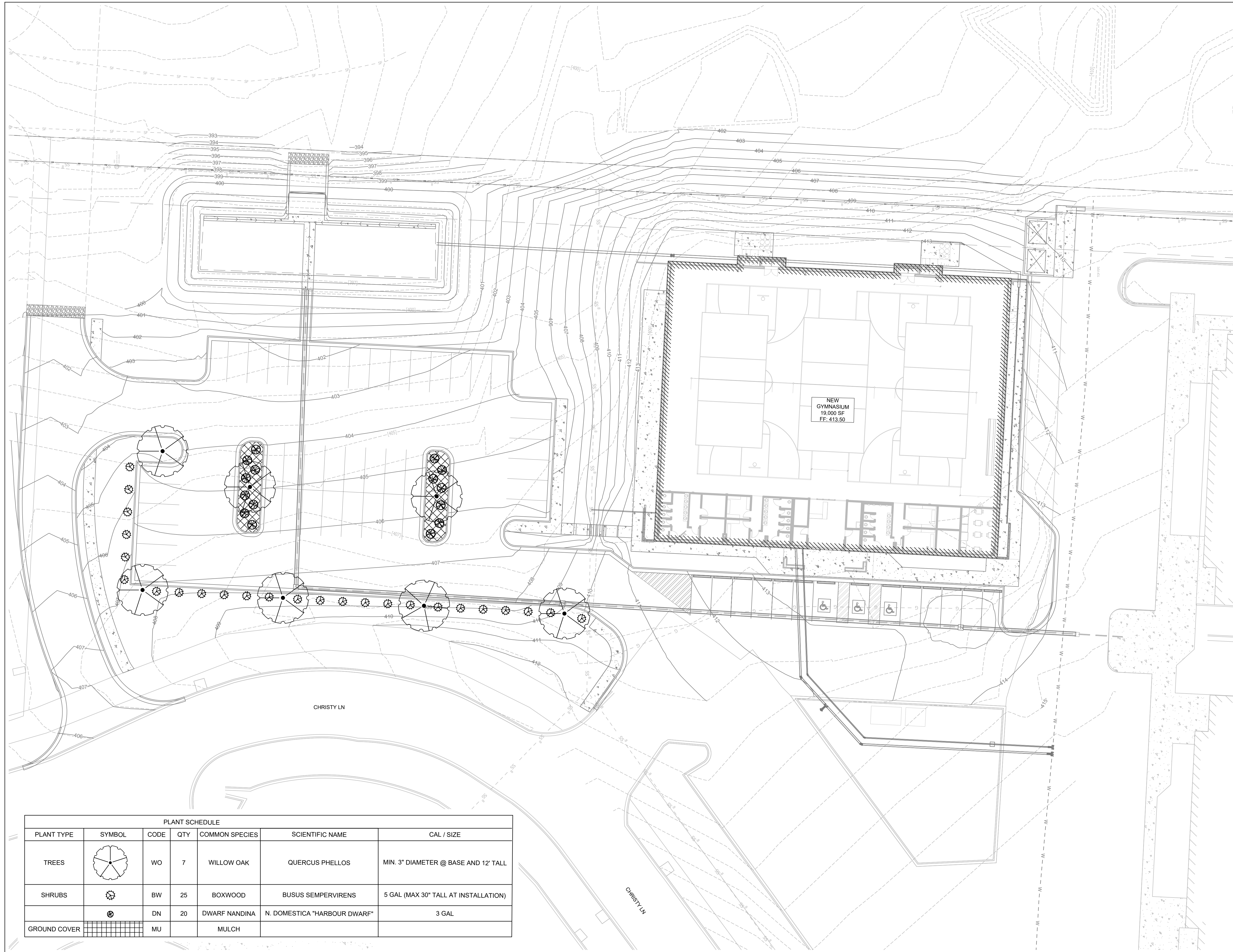


REVISION:

PRELIMINARY  
NOT FOR CONSTRUCTION

PROJECT NUMBER:  
SHEET ISSUE DATE:  
1/10/2024  
PAGE TITLE:  
UTILITY PLAN  
SHEET NUMBER:  
C1.7



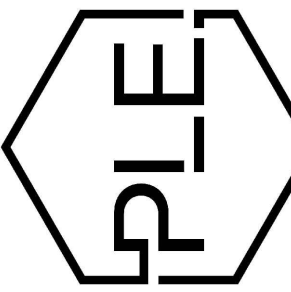
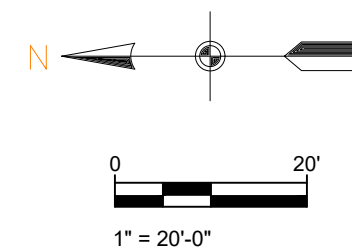


PLANT SCHEDULE						
PLANT TYPE	SYMBOL	CODE	QTY	COMMON SPECIES	SCIENTIFIC NAME	CAL / SIZE
TREES		WO	7	WILLOW OAK	QUERCUS PHELLOS	MIN. 3" DIAMETER @ BASE AND 12' TALL
SHRUBS		BW	25	BOXWOOD	BUSUS SEMPERVIRENS	5 GAL (MAX 30" TALL AT INSTALLATION)
		DN	20	DWARF NANDINA	N. DOMESTICA "HARBOUR DWARF"	3 GAL
GROUND COVER		MU		MULCH		

### LANDSCAPING PLAN

THE ABOVE SPECIES IS OPTIONAL IF OWNER WANTS TO GO WITH THE SAME SPECIES AS ADJACENT PROPERTY

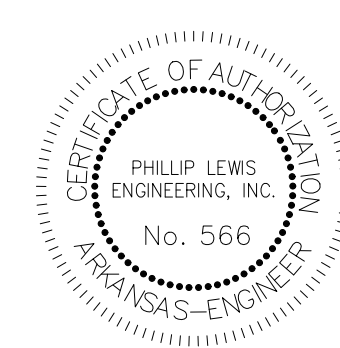
SCALE 1" = 20'



REVISION:

### SUMMERWOOD SPORTS GYMNASIUM #3

7817 Hwy 5 N  
Bryant, Arkansas



PROJECT NUMBER:

SHEET ISSUE DATE:  
1/10/2024

PAGE TITLE:

LANDSCAPING  
PLAN

SHEET NUMBER:

C1.8



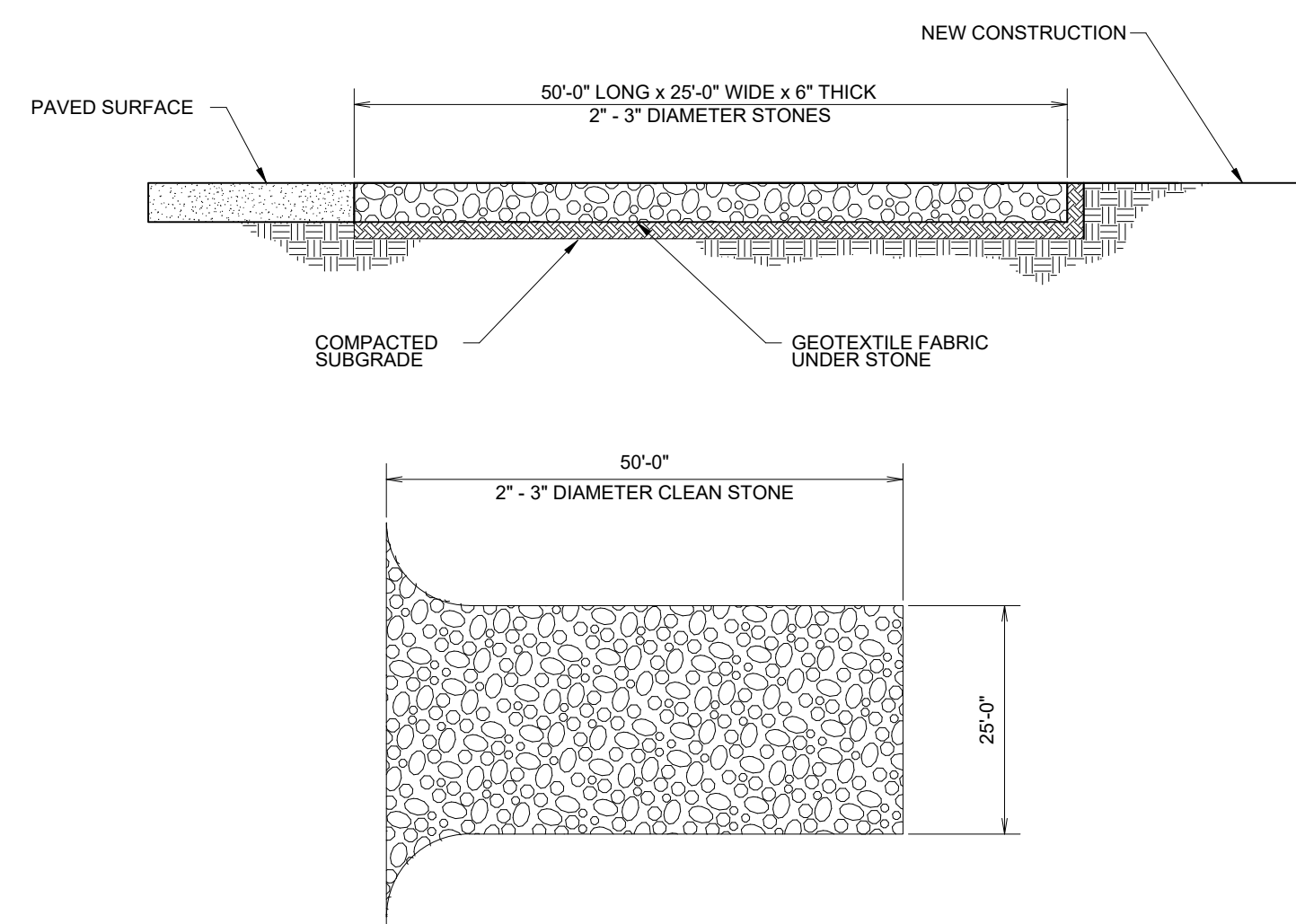


**SWPPP PH. 1**

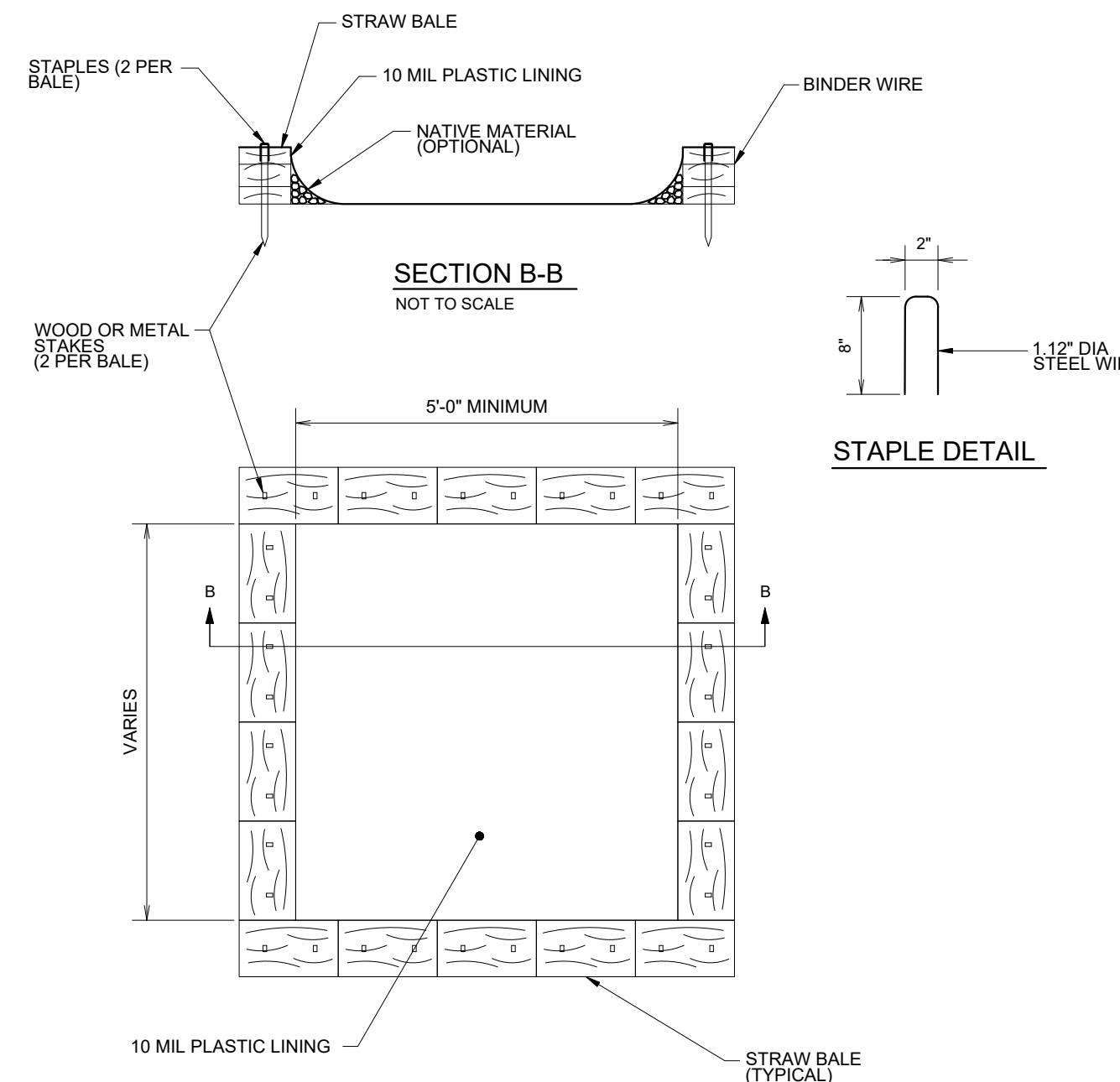
SCALE 1" = 50'

**LEGEND**

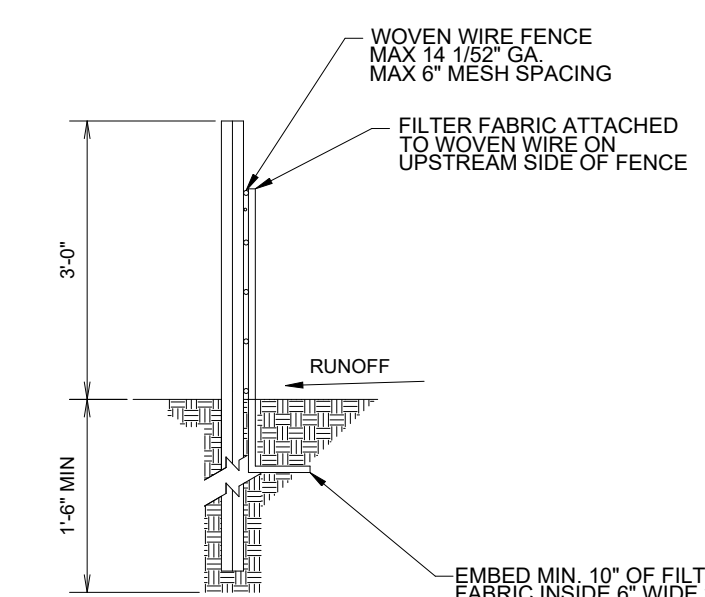
- DISTURBED AREA
- UNDISTURBED AREA
- GRASS SEED
- SEDIMENT FENCE WITH WIRE BACKING
- DRAINAGE DIRECTION



**CONSTRUCTION ENTRANCE** NOT TO SCALE



**CONCRETE WASHOUT** NOT TO SCALE



**SILT FENCE** NOT TO SCALE



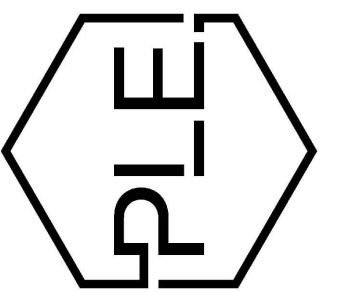
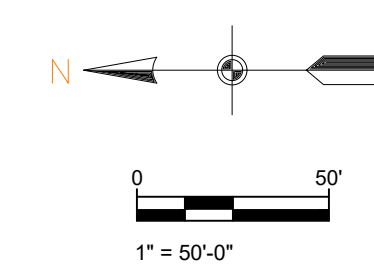
**STAPLE DETAIL**

**NOTES AND SPECIFICATIONS:**

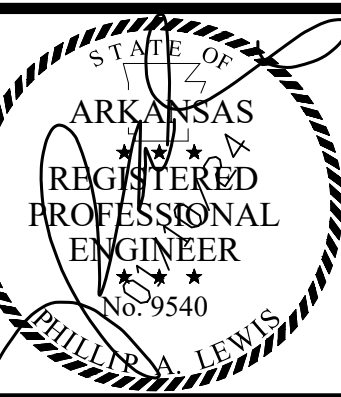
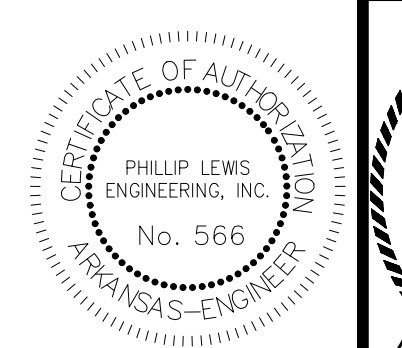
1. POSTS SHALL BE A MINIMUM OF 36 INCHES CONSTRUCTED OF EITHER OF THE FOLLOWING MATERIALS: STEEL 1" OR 1 1/2" TYPE, OR 2" x 2" HARDWOOD.
2. WOVEN WIRE USED AS ADDITIONAL FENCE SUPPORT SHALL BE MINIMUM 14.5 GA. WITH 6" MAXIMUM SPACING.
3. WOVEN WIRE SHALL BE PLACED ALONG THE UPHILL SIDE OF THE FENCE AND 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.

**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 MEASURE ON SITE MAP.
4. EROSION AND SEDIMENT CONTROL STRUCTURES TO MEET SWPPP DETAILS - APPENDIX D
5. INSTALL ROCK DITCH, CHECK, 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. FINAL SLOPE WILL BE SAME DIRECTION AS EXISTING SLOPE.



REVISION:



PROJECT NUMBER:

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1/10/2024

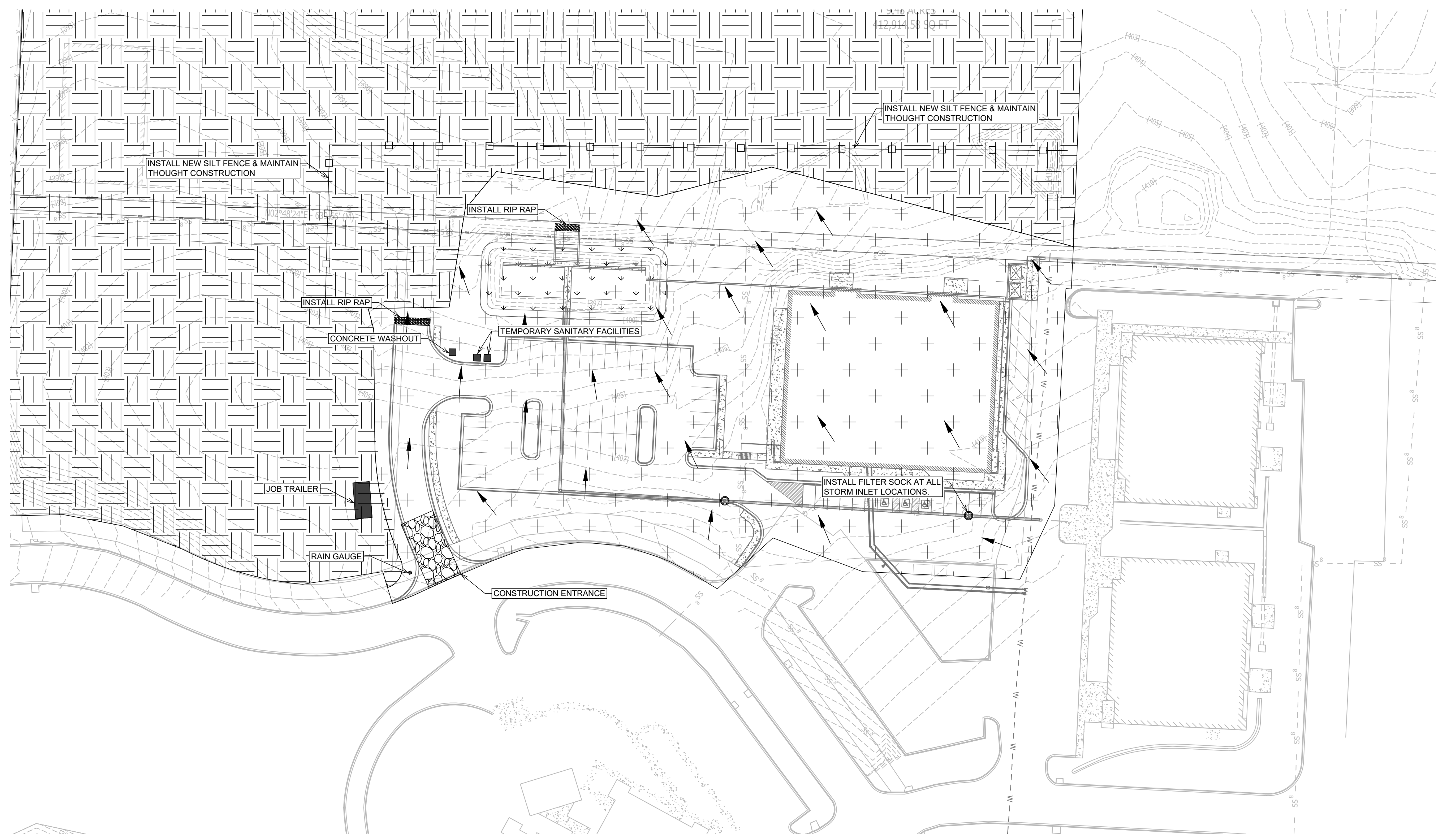
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SWPPP PH. 1

SHEET NUMBER:

**C1.9**

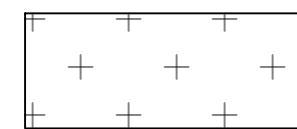
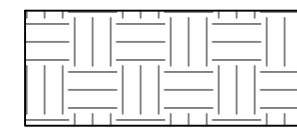
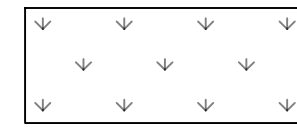
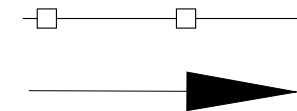





**SWPPP PH. 2**

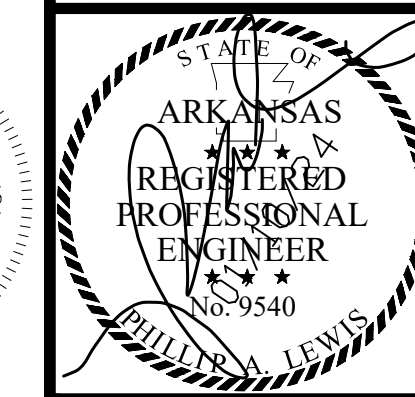
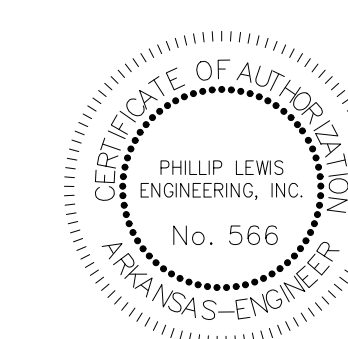
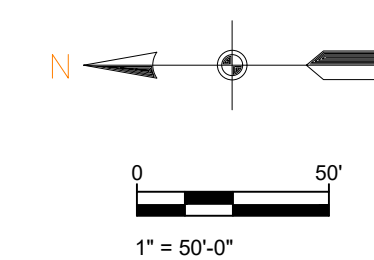
SCALE 1" = 50'

**LEGEND**

-  DISTURBED AREA
-  UNDISTURBED AREA
-  GRASS SEED
-  SEDIMENT FENCE WITH WIRE BACKING
-  DRAINAGE DIRECTION

**NOTES (GENERAL):**

1. SEE EROSION CONTROL DETAILS IN SWPPP FOR EROSION CONTROL FACILITIES.
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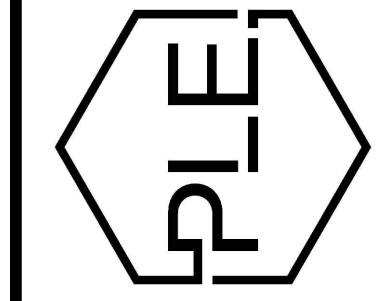
PAGE TITLE:

SWPPP PH. 2

SHEET NUMBER:

**C1.10**

**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



PHILLIP LEWIS ENGINEERING

Structural + Civil Consultants

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

January 10, 2023

Colton Leonard  
City Planner  
City of Bryant  
210 SW 3<sup>rd</sup> St.  
Bryant, AR 72022

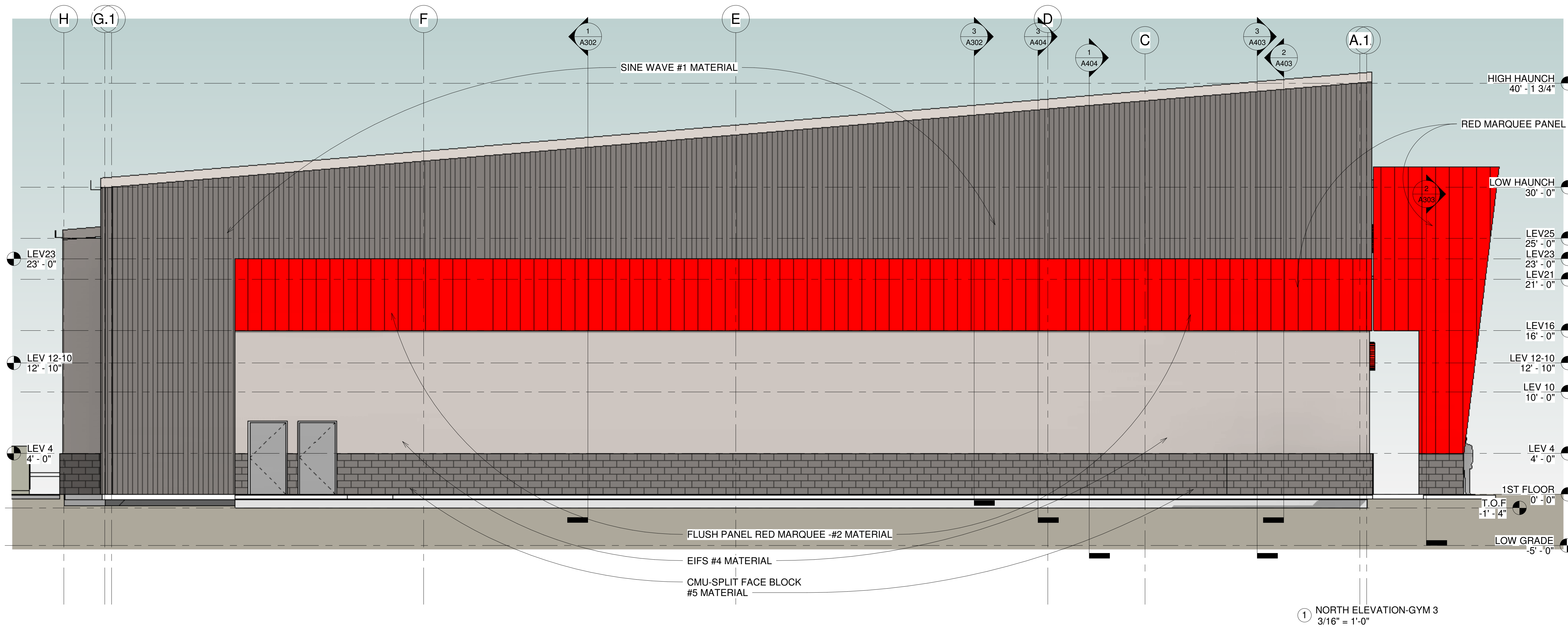
To whom it may concern,

This is a formal request to be placed on the upcoming Design Review Committee agenda for a Small Scale Development application pertaining to the Summerwood Sports Gymnasium #3 project. This is the third gym installment of the Summerwood Sports complex located along Hwy 5 and Bryant Parkway. The civil and architectural plans accompany this letter.

If you have any questions, please give me a call.

Sincerely,  
Phillip Lewis, P.E.  
501-350-9840





**FRONT ELEVATION-% OF AREA MATERIALS LISTED**

1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE=2,336 SF
2. RED COLOR -FLUSH METAL PANELS =1,394 SF
3. BLUE COLOR- GLASS AND DOORS=308 SF
4. DARK GRAY COLOR - EIFS TYPE STUCCO=1,472 SF
5. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK=544 SF

TOTAL SF FRONT ELEVATION=6,054 SF  
 CHARCOAL COLOR SINE WAVE METAL =38.5% OF AREA  
 RED COLOR FLUSH METAL PANEL= 23% OF AREA  
 GLASS= 5.0% OF AREA

**SIDE ELEVATIONS -% OF AREA MATERIALS LISTED**  
 EAST AND WEST ELEVATIONS ARE IDENTICAL BUT MIRRORED

1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE=1,771 SF
2. RED COLOR -FLUSH METAL PANELS = 1,020 SF
3. LIGHT GRAY COLOR - EIFS TYPE STUCCO= 1,326 SF
4. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK= 452 SF

TOTAL SF SIDE ELEVATION=4,569 SF  
 TOP-CHARCOAL SINE WAVE METAL =38% OF AREA  
 RED COLOR FLUSH METAL PANEL = 22.3% OF AREA

**EXTERIOR MATERIALS LISTED FROM TOP OF BUILDING TO FLOOR-ALL METAL SIDING HAS CONCEALED FASTENERS**

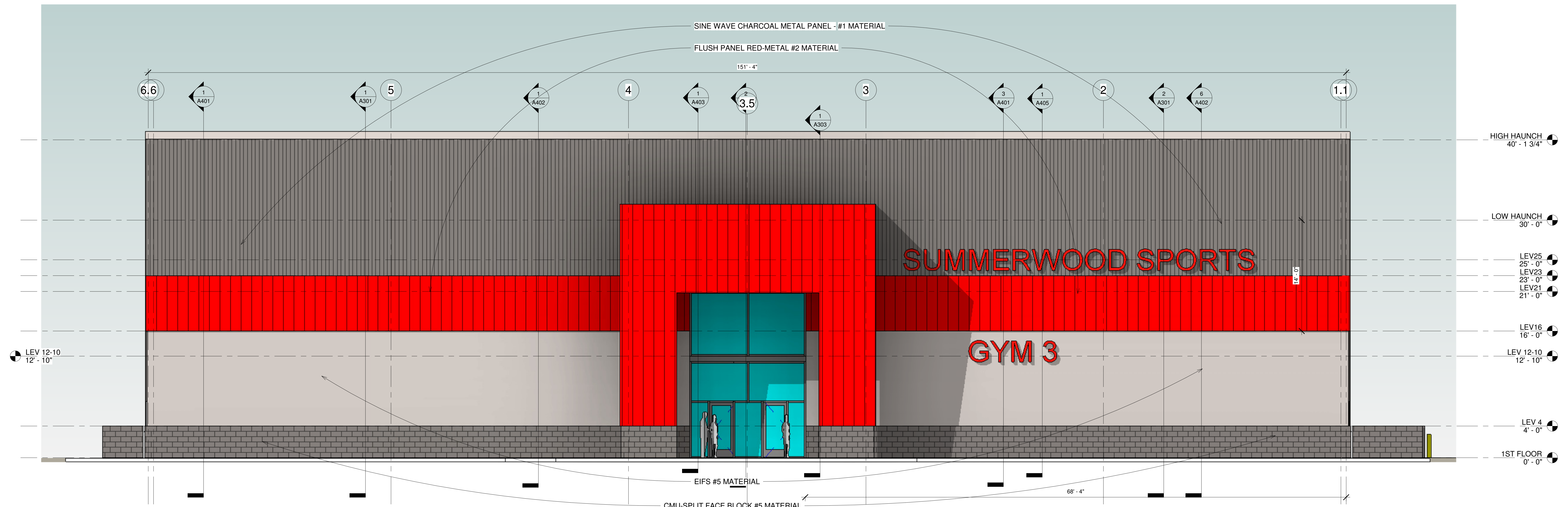
1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE AND W/CONCEALED FASTENERS AT TOP OF WALL
2. RED COLOR WALL STRIPE -FLUSH METAL PANELS W/CONCEALED FASTENERS AT 16' TO 23' ABOVE FLR.
3. RED COLOR AT COVERED ENTRY FEATURES-FLUSH METAL PANELS W/CONCEALED FASTENERS
4. BLUE COLOR=INSULATED GLASS AND STOREFRONT TYPE DOORS
5. LIGHT GRAY COLOR - EIFS TYPE STUCCO-FROM 4'-0" TO 16' ABOVE FLR.
6. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK AT BASE OF WALL TO 4'-0" ABOVE FLR.
7. LIGHT GRAY COLOR-PAINTED METAL EXIT DOORS

**REAR ELEVATION -% OF AREA MATERIALS LISTED**

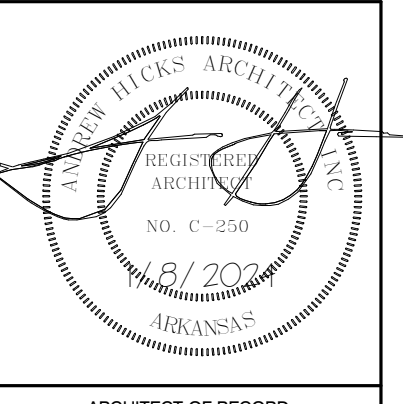
RECESSED MATERIALS ARE COUNTED AS SF- SEE OTHER SHEET FOR REAR ELEVATION

1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE= 2,013 SF
2. DARK GRAY COLOR - EIFS TYPE STUCCO= 2,098 SF
3. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK= 456 SF

TOTAL SF REAR ELEVATION=4,567 SF  
 TOP-CHARCOAL SINE WAVE METAL =44 % OF WALL AREA



② FRONT WEST ELEVATION-GYM 3  
 3/16" = 1'-0"



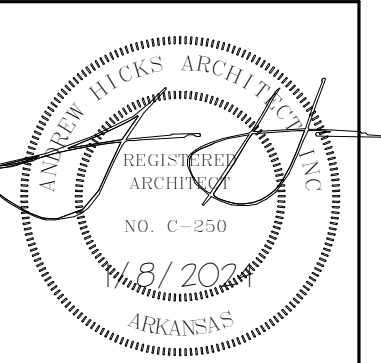
ARCHITECT OF RECORD  
 ANDREW F. HICKS  
 FOR SUMMERWOOD PARTNERS  
 VERNIA OFFICE PARK, BRYANT PARKWAY  
 BRYANT, ARKANSAS

andrew hicks | architect  
 AIA  
 m- 501-660-0789  
 o- 479-332-5050  
 www.andrewhicksarchitect.com  
 600 N. Mission Blvd.  
 Fayetteville, AR 72701

ISSUE DATE: 1/8/2024	
REVISIONS:	
NO.	DATE

ELEVATIONS-GYM 3  
 A200





ARCHITECT OF RECORD  
ANDREW F. HICKS

FOR SUMMERWOOD PARTNERS  
VERNIA OFFICE PARK, BRYANT PARKWAY  
BRYANT, ARKANSAS

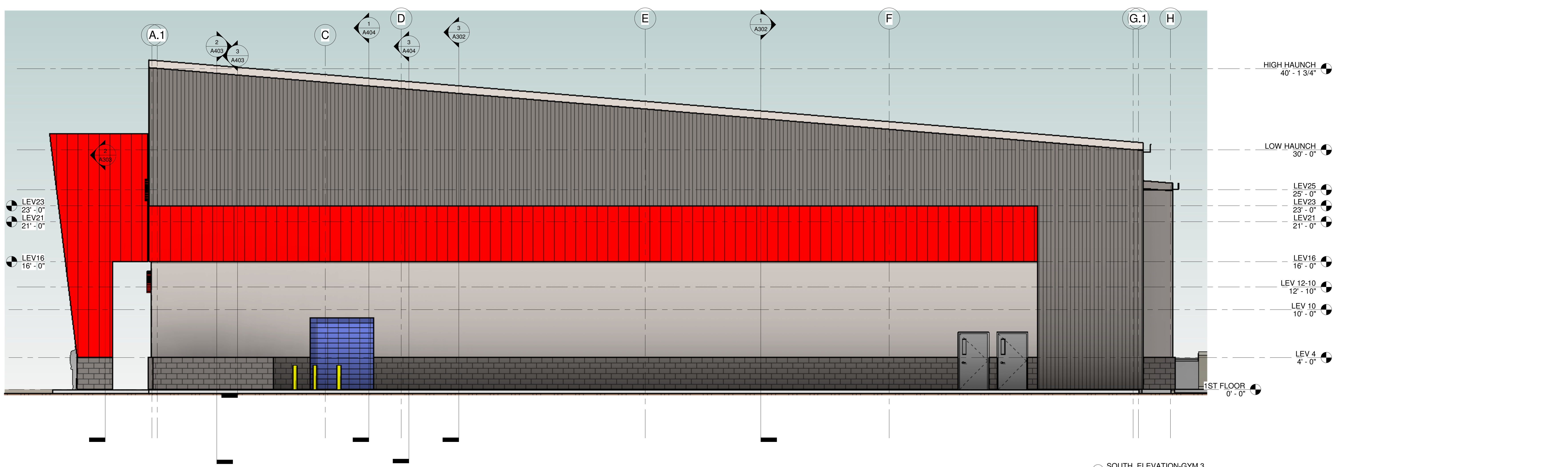
**andrew hicks | architect**  
**AHHA**  
P.O. BOX 1000  
600 N. Mission Blvd.  
Fayetteville, AR 72701  
PH: 479-332-5050  
WWW.ANDREWHICKSARCHITECT.COM

GYM #3

ISSUE DATE: 1/8/2024

REVISIONS	
NO.	DATE

ELEVATIONS-GYM 3  
**A201**



1 SOUTH ELEVATION-GYM 3  
3/16" = 1'-0"

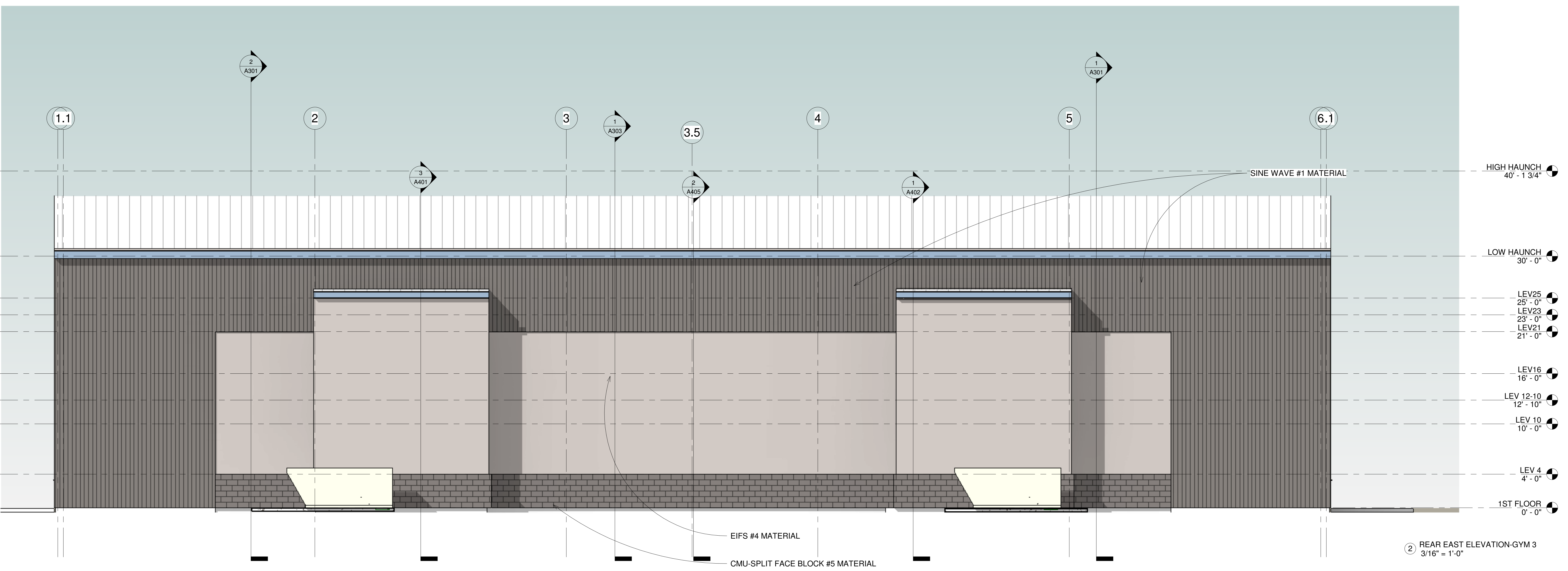
**EXTERIOR MATERIALS LISTED FROM TOP OF BUILDING TO FLOOR-ALL METAL SIDING HAS CONCEALED FASTENERS**

1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE AND W/CONCEALED FASTENERS AT TOP OF WALL
2. RED COLOR WALL STRIPE -FLUSH METAL PANELS W/CONCEALED FASTENERS AT 16' TO 23' ABOVE FLR.
3. RED COLOR AT COVERED ENTRY FEATURES-FLUSH METAL PANELS W/CONCEALED FASTENERS
4. BLUE COLOR=INSULATED GLASS AND STOREFRONT TYPE DOORS
5. LIGHT GRAY COLOR - EIFS TYPE STUCCO-FROM 4'-0" TO 16' ABOVE FLR.
6. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK AT BASE OF WALL TO 4'-0" ABOVE FLR.
7. LIGHT GRAY COLOR-PAINTED METAL EXIT DOORS

**REAR ELEVATION -% OF AREA MATERIALS LISTED  
RECESSED MATERIALS ARE COUNTED AS SF**

1. TOP-CHARCOAL COLOR -METAL PANELS WITH SINE WAVE= 2,013 SF
2. DARK GRAY COLOR - EIFS TYPE STUCCO= 2,098 SF
3. BASE-CHARCOAL COLOR -SPLIT FACE BLOCK= 456 SF

TOTAL SF REAR ELEVATION=4,567 SF  
TOP-CHARCOAL SINE WAVE METAL =44 % OF WALL AREA



2 REAR EAST ELEVATION-GYM 3  
3/16" = 1'-0"

# **SUMMERWOOD SPORTS GYM #3**

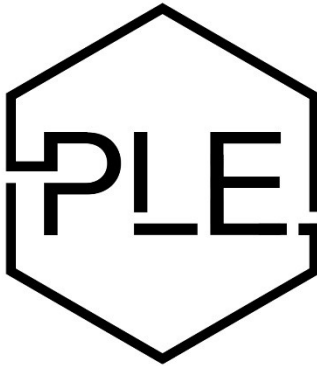
## **DRAINAGE REPORT**

***Date: 01-10-2024***

***Located in: Bryant, Arkansas***

***Prepared for:***  
**City of Bryant, Arkansas**

**Prepared by:**



**PHILLIP LEWIS ENGINEERING**

---

Structural + Civil Consultants

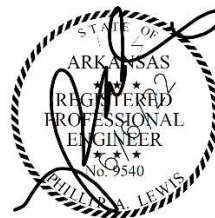
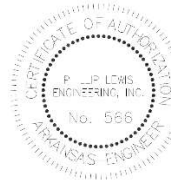
23620 Interstate 30 | Bryant, AR  
PH: 501-350-9840

# CERTIFICATION

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

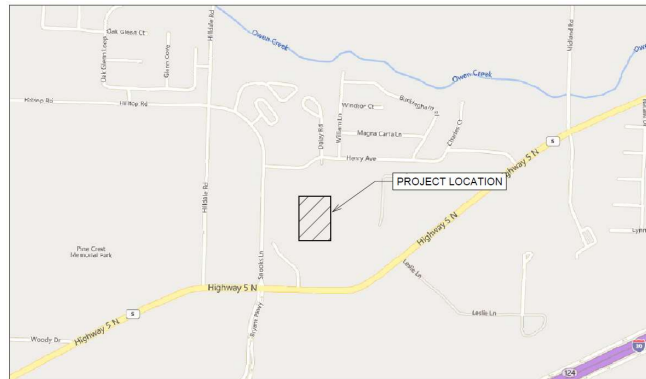


Phillip A. Lewis, PE.



DATE: 01-10-2024

## PROJECT LOCATION MAP



## DESCRIPTION OF PROPERTY

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 a 19,000 sq. ft. building and parking lot.

The intent of this drainage analysis is to reevaluate the previous drainage design and ensure that the completion of this development still meets the design intent and capacity of the previous constructed onsite detention facilities.

The existing ground coverage for the entire development drainage basin consisted of and partially still consists of natural vegetation (3%-8% slope), hydrologic soil group C/D (C = 0.50).

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

## DRAINAGE CRITERIA

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

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

Calculations were performed using the Rational Method, using NOAA rainfall data, and the pond volume and outlet structure was determined by the 100-year storm event while



the outlet structure is designed to match or reduce pre-development flow rates for all storm events: 2-yr, 10-yr, 25-yr, and 100-yr storms.

#### Detention Basin Design Specifications:

- *3:1 maximum side slopes*
- *Outlet structures designed to reduce flow rate to match or reduce the pre-development runoff rates for the 2-yr, 5-yr, 10-yr, 25-yr and 100-yr storms.*
- *The pond bottom and side is to be solid sod to prevent erosion*
- *The basins are located and designed to allow access for continued maintenance after construction is completed*

## **DESCRIPTION OF PREVIOUS DETENTION FACILITIES**

Phillip Lewis Engineering has evaluated the previously supplied drainage analysis and made site investigations to fully understand the current drainage situation.

The previous drainage analysis studied the pre vs. post scenarios as a single 6 acre node. Post development was studied as one node routing through the detention pond that is now constructed on the site. Due to the nature of how phase one construction evolved, some areas were not routed to this detention pond. Some of these areas ultimately discharge to other detention facilities located elsewhere on the site, and some are freely discharged to the adjacent eastern parcel.

This drainage study is intended to account for these discrepancies and ensure that the detention basin is throttling appropriately to offset the free discharges from the previous phase and this new proposed phase.

## **PROPOSED DRAINAGE SYSTEM**

This development is designed to capture the majority of runoff within the parking lot curb and gutter, collecting stormwater with “Nyloplast” area inlets, and downspout collector pipes. The existing storm sewer network will remain, with the addition of two area grates along the frontage of gym #3. The existing detention basin that was constructed for the first two gymnasiums will remain as planned previously with the development of gym 1 and 2. This drainage analysis will provide supporting evidence to validate the previously constructed detention basin’s functionality.

While the pond footprint will remain as constructed, current design plans detail for this pond rim to be reestablished at the intended 400.00’ elevation, and for adequate trickle channels to be constructed within the pond bottom (per city of Bryant Requirements).

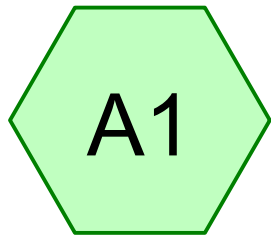
The detention pond was designed to detain stormwater volumes based off the 100-yr storm events with a concrete overflow spillway to release water if a rainfall event were to exceed the 100-yr storm event. The outlet control structures are detailed within this report.

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

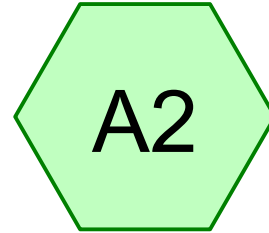
<b>Storm Event</b>	<b>Pre-development Discharge (cfs)</b>	<b>Post-development Discharge (cfs)</b>
2-yr	10.33	10.14
5-yr	12.27	12.27
10-yr	13.82	13.74
25-yr	15.94	15.69
100-yr	18.93	18.25

Overall pre development and post development discharge rates are displayed in the following hydrographs. A final discharge link has been added to each to show one comparable discharge number. This final discharge will verify that the design detention basin should offset any bypassing watershed within the development.

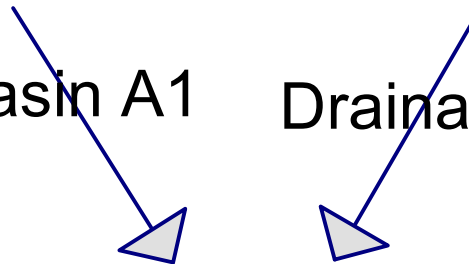
## PRE DEVELOPMENT HYDROGRAPHS



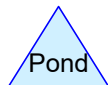
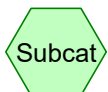
Drainage Basin A1



Drainage Basin A2



Pre Dev Runoff



### 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=10 min, Inten=4.36 in/hr

Printed 1/11/2024

### Summary for Subcatchment A1: Drainage Basin A1

Runoff = 5.31 cfs @ 0.17 hrs, Volume= 3,242 cf, Depth= 0.36"  
Routed to Link Pre-Dev : Pre Dev Runoff

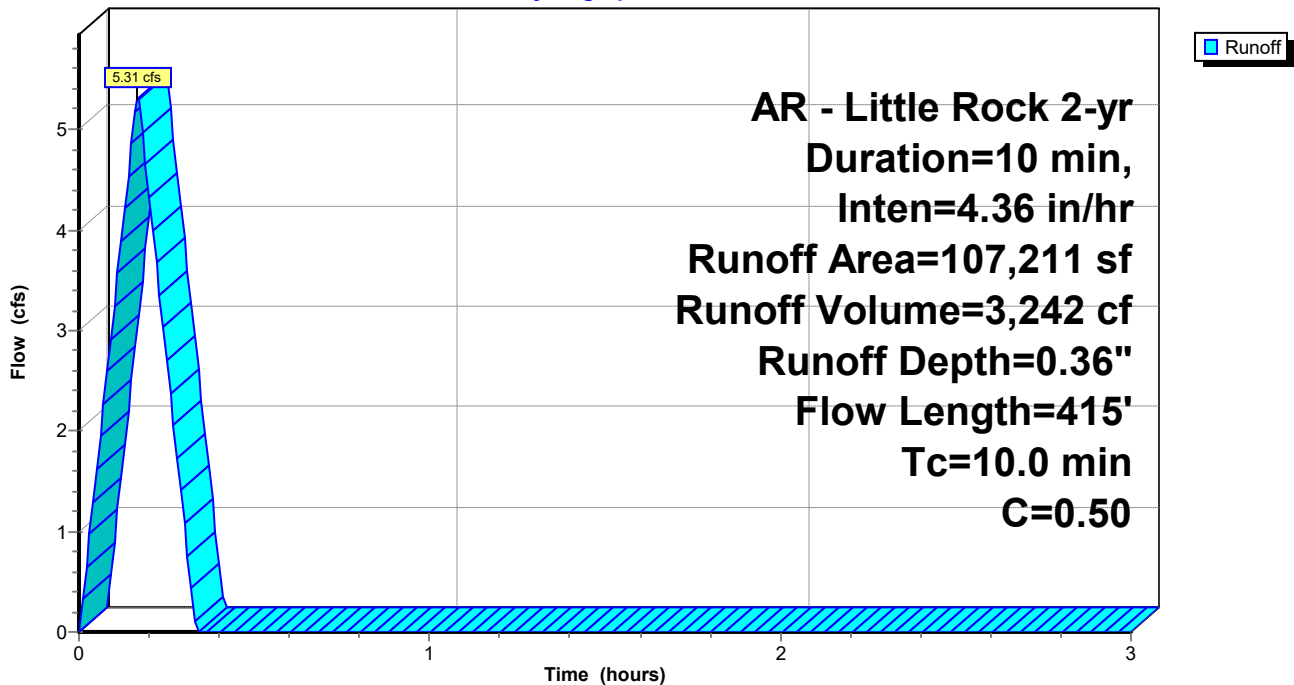
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
107,211	0.50	Existing Natural Vegetation
107,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment A1: Drainage Basin A1

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Printed 1/11/2024

### Summary for Subcatchment A2: Drainage Basin A2

Runoff = 5.02 cfs @ 0.17 hrs, Volume= 3,065 cf, Depth= 0.36"  
Routed to Link Pre-Dev : Pre Dev Runoff

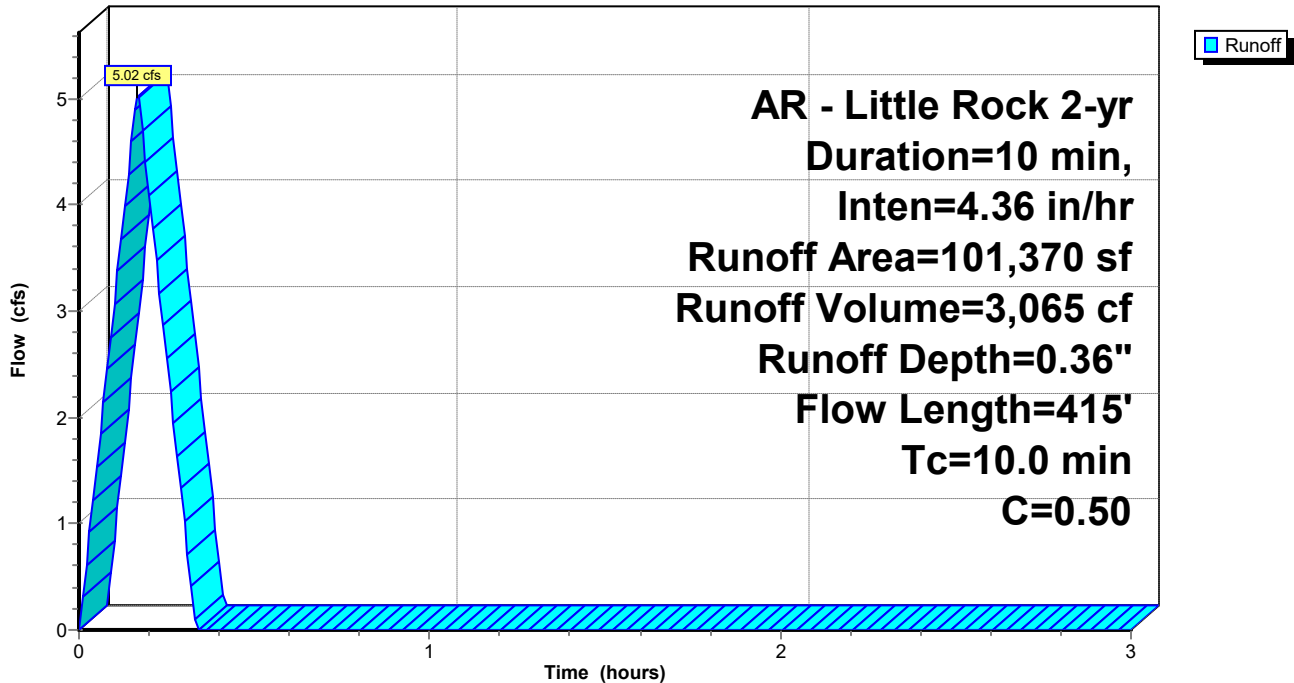
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
101,370	0.50	Existing Natural Vegetation
101,370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment A2: Drainage Basin A2

Hydrograph



# Summerwood Gym 3

AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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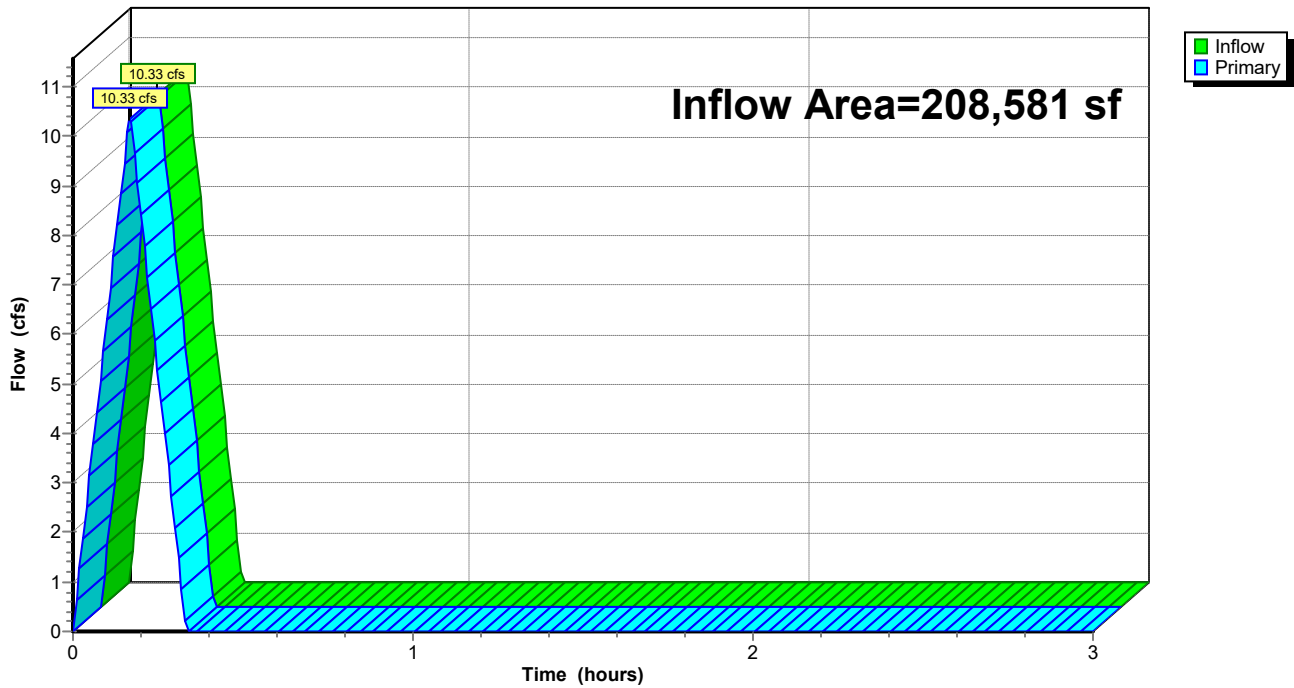
## Summary for Link Pre-Dev: Pre Dev Runoff

Inflow Area = 208,581 sf, 0.00% Impervious, Inflow Depth = 0.36" for 2-yr event  
Inflow = 10.33 cfs @ 0.17 hrs, Volume= 6,307 cf  
Primary = 10.33 cfs @ 0.17 hrs, Volume= 6,307 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre-Dev: Pre Dev Runoff

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Printed 1/11/2024

### Summary for Subcatchment A1: Drainage Basin A1

Runoff = 6.31 cfs @ 0.17 hrs, Volume= 3,849 cf, Depth= 0.43"  
Routed to Link Pre-Dev : Pre Dev Runoff

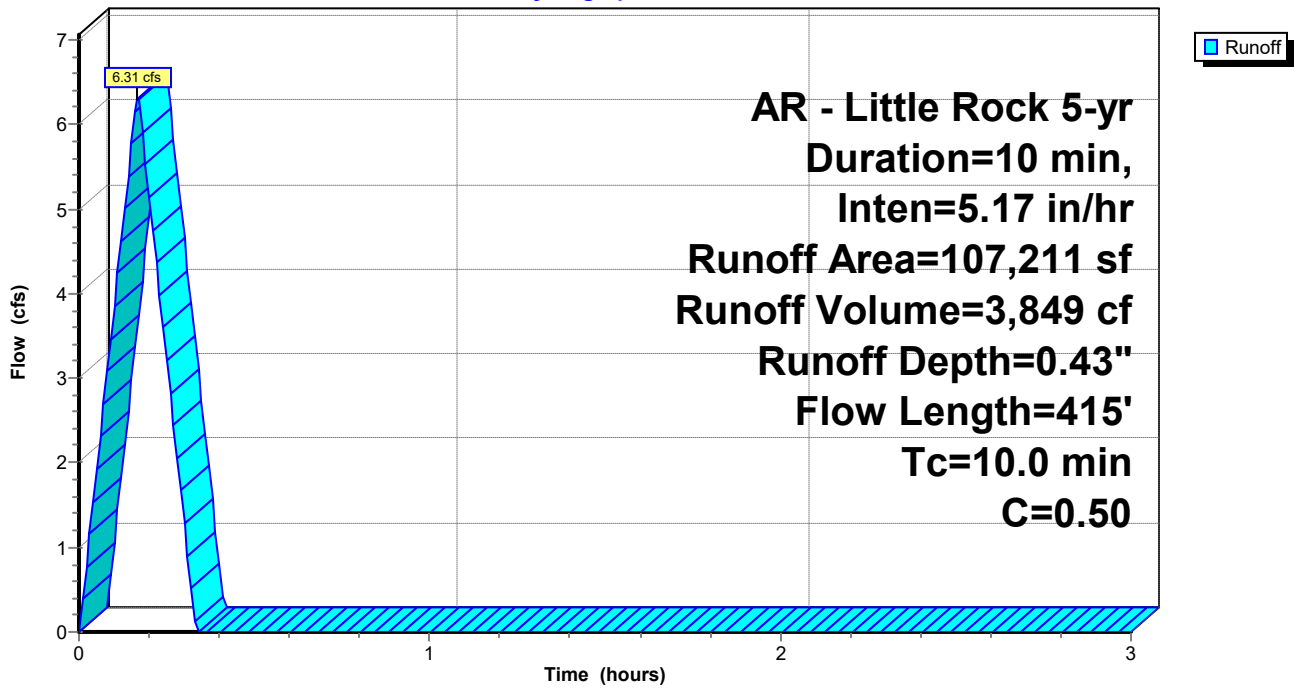
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
107,211	0.50	Existing Natural Vegetation
107,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment A1: Drainage Basin A1

Hydrograph





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Printed 1/11/2024

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

Runoff = 5.96 cfs @ 0.17 hrs, Volume= 3,639 cf, Depth= 0.43"  
 Routed to Link Pre-Dev : Pre Dev Runoff

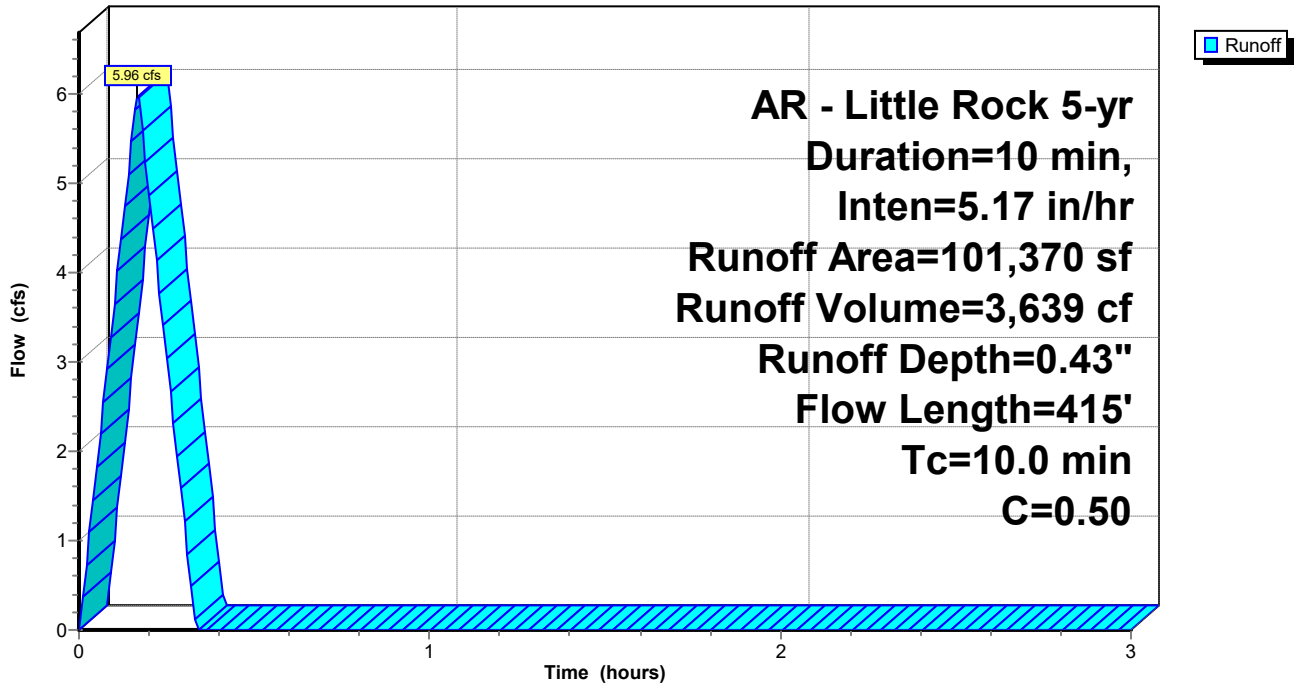
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
101,370	0.50	Existing Natural Vegetation
101,370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment A2: Drainage Basin A2**

Hydrograph



# Summerwood Gym 3

AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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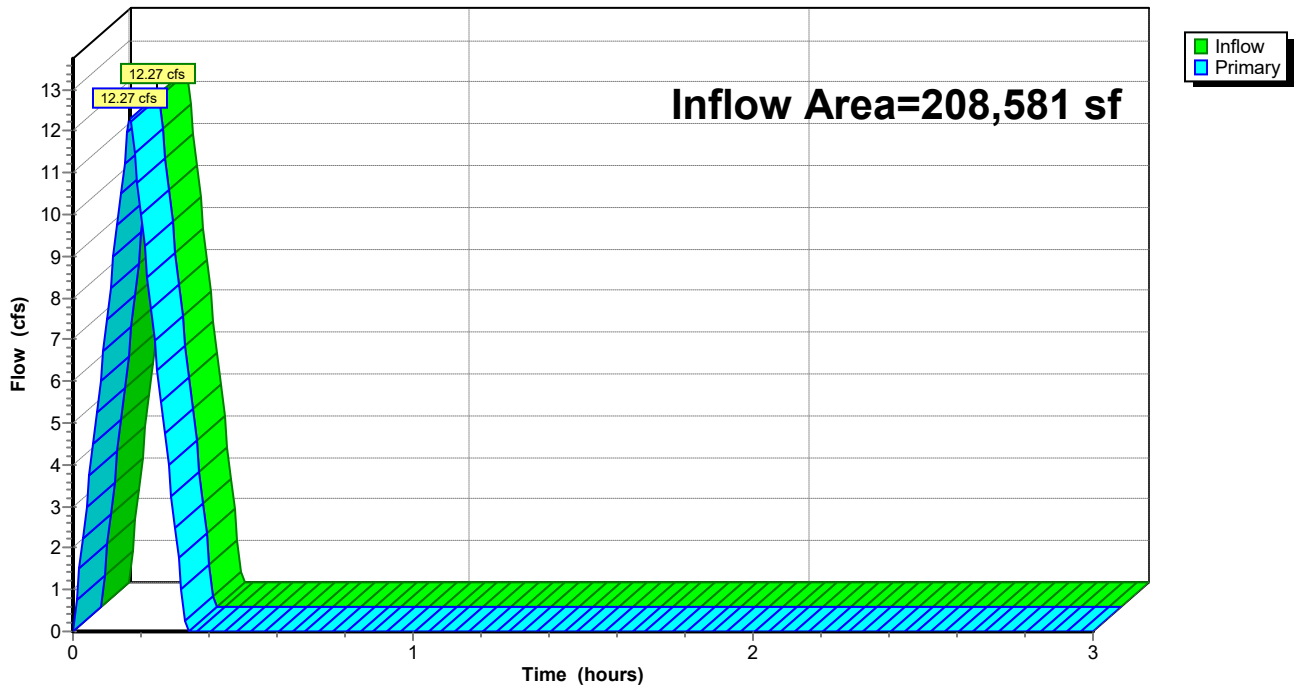
## Summary for Link Pre-Dev: Pre Dev Runoff

Inflow Area = 208,581 sf, 0.00% Impervious, Inflow Depth = 0.43" for 5-yr event  
Inflow = 12.27 cfs @ 0.17 hrs, Volume= 7,489 cf  
Primary = 12.27 cfs @ 0.17 hrs, Volume= 7,489 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre-Dev: Pre Dev Runoff

Hydrograph



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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## Summary for Subcatchment A1: Drainage Basin A1

Runoff = 7.10 cfs @ 0.17 hrs, Volume= 4,336 cf, Depth= 0.49"  
Routed to Link Pre-Dev : Pre Dev Runoff

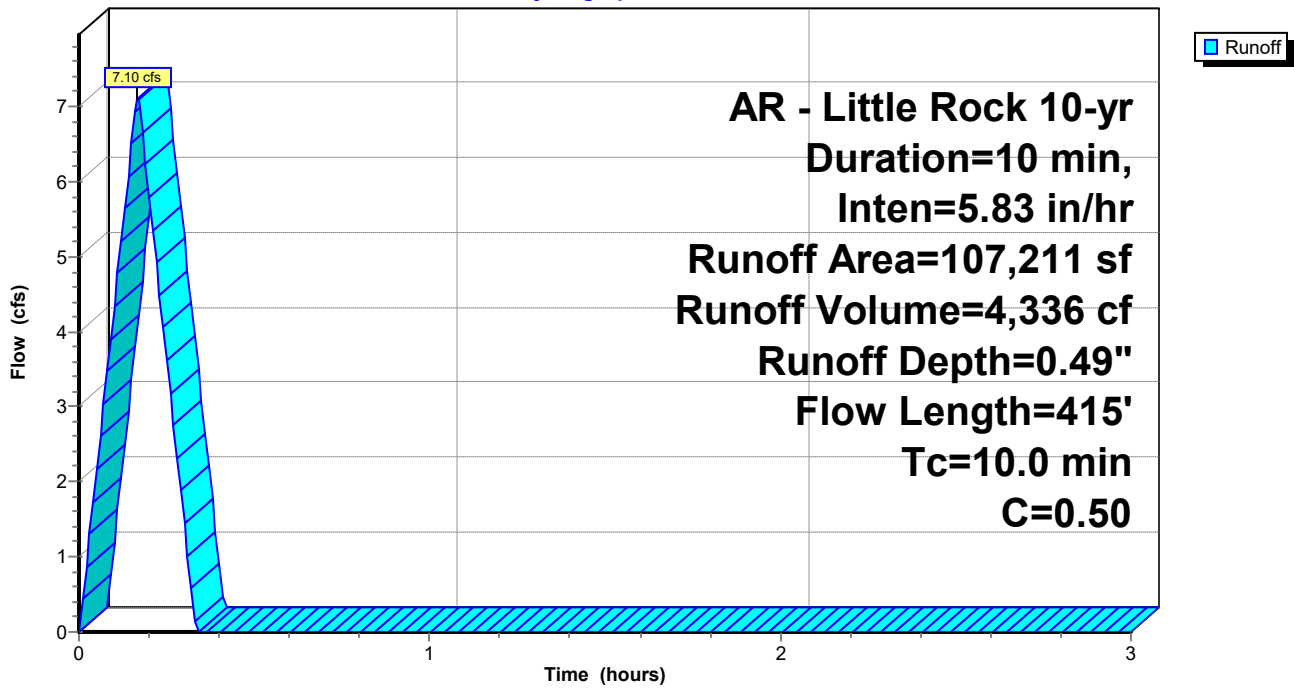
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
107,211	0.50	Existing Natural Vegetation
107,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

## Subcatchment A1: Drainage Basin A1

Hydrograph



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Printed 1/11/2024

## Summary for Subcatchment A2: Drainage Basin A2

Runoff = 6.72 cfs @ 0.17 hrs, Volume= 4,100 cf, Depth= 0.49"  
Routed to Link Pre-Dev : Pre Dev Runoff

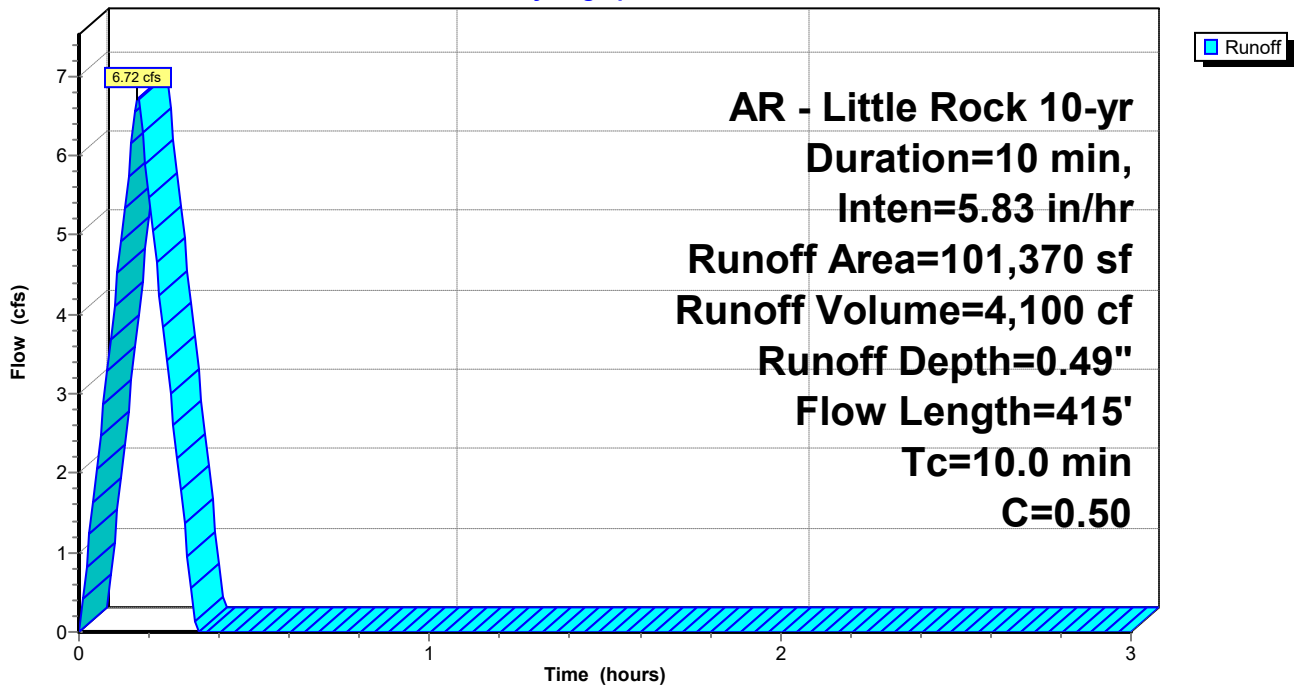
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
101,370	0.50	Existing Natural Vegetation
101,370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

## Subcatchment A2: Drainage Basin A2

Hydrograph



# Summerwood Gym 3

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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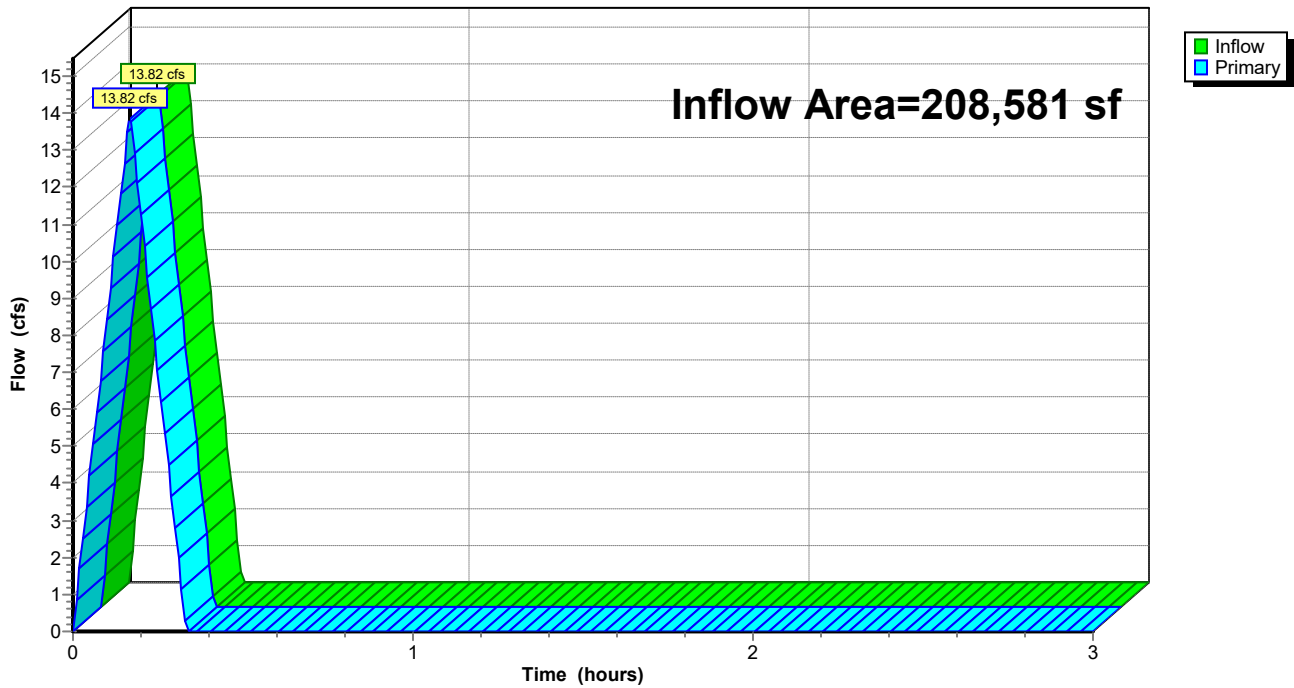
## Summary for Link Pre-Dev: Pre Dev Runoff

Inflow Area = 208,581 sf, 0.00% Impervious, Inflow Depth = 0.49" for 10-yr event  
Inflow = 13.82 cfs @ 0.17 hrs, Volume= 8,435 cf  
Primary = 13.82 cfs @ 0.17 hrs, Volume= 8,435 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre-Dev: Pre Dev Runoff

Hydrograph



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Printed 1/11/2024

## Summary for Subcatchment A1: Drainage Basin A1

Runoff = 8.19 cfs @ 0.17 hrs, Volume= 5,001 cf, Depth= 0.56"  
Routed to Link Pre-Dev : Pre Dev Runoff

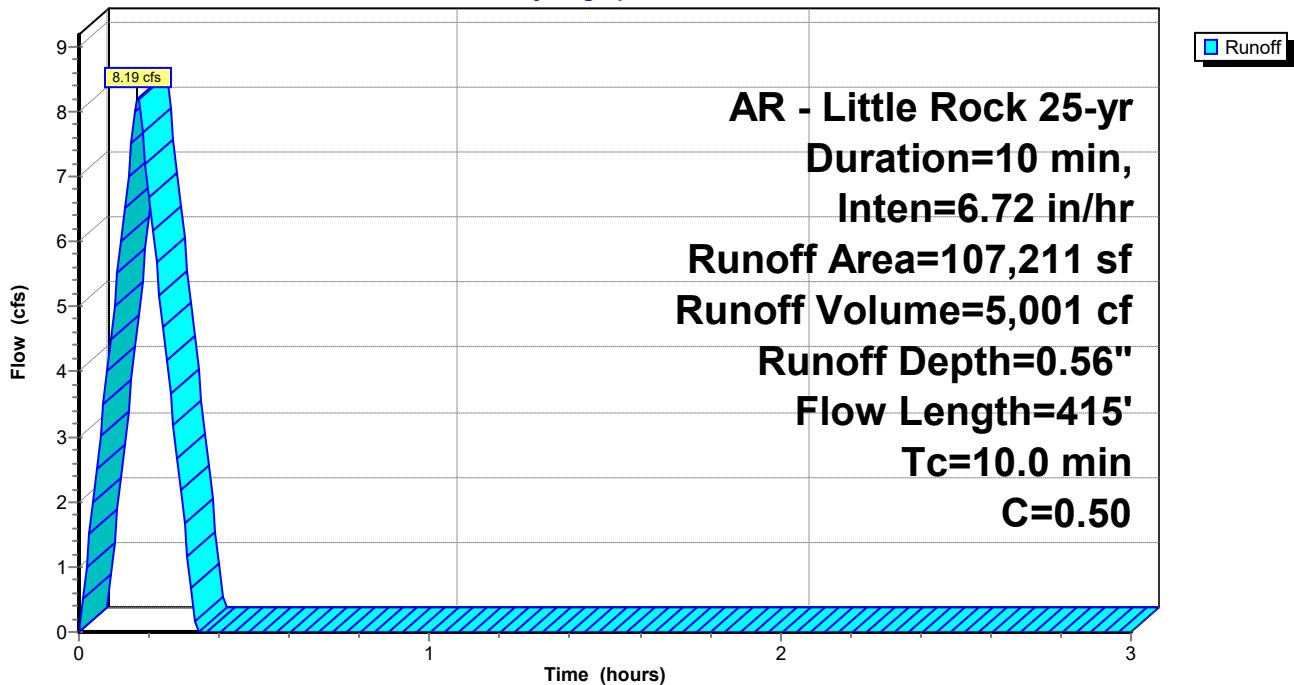
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
107,211	0.50	Existing Natural Vegetation
107,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

## Subcatchment A1: Drainage Basin A1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Printed 1/11/2024

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

Runoff = 7.75 cfs @ 0.17 hrs, Volume= 4,729 cf, Depth= 0.56"  
 Routed to Link Pre-Dev : Pre Dev Runoff

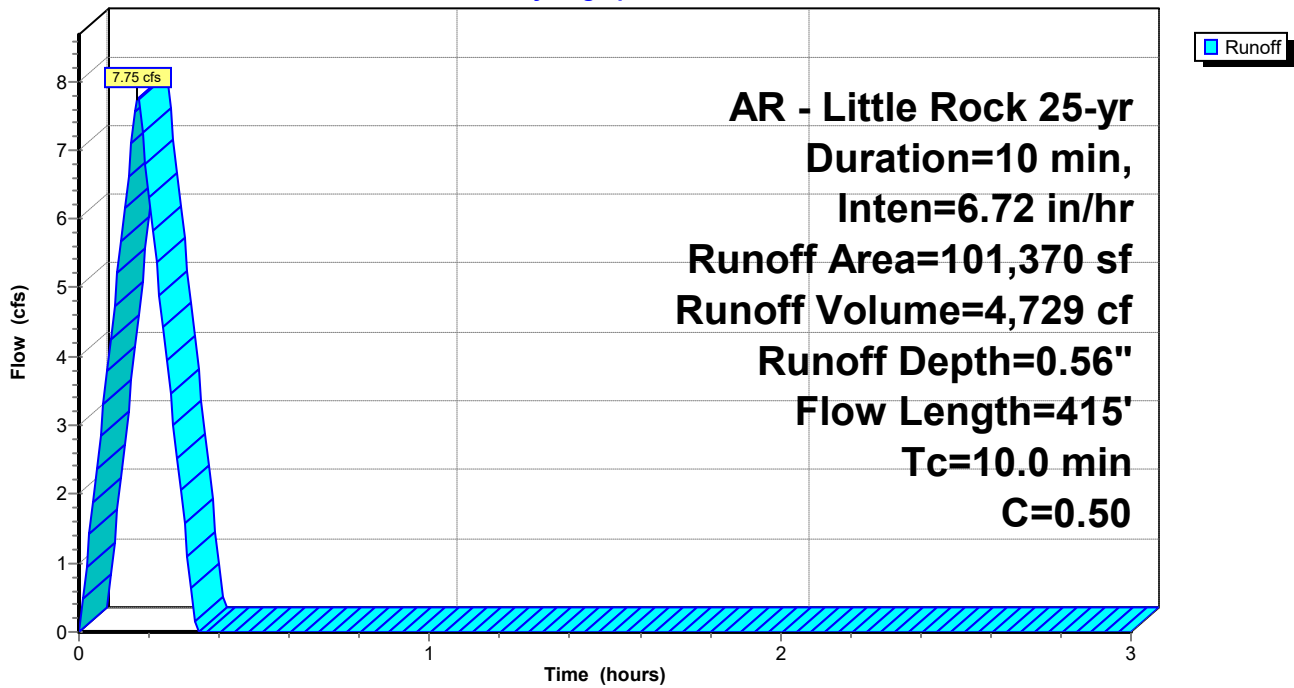
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
101,370	0.50	Existing Natural Vegetation
101,370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment A2: Drainage Basin A2**

Hydrograph



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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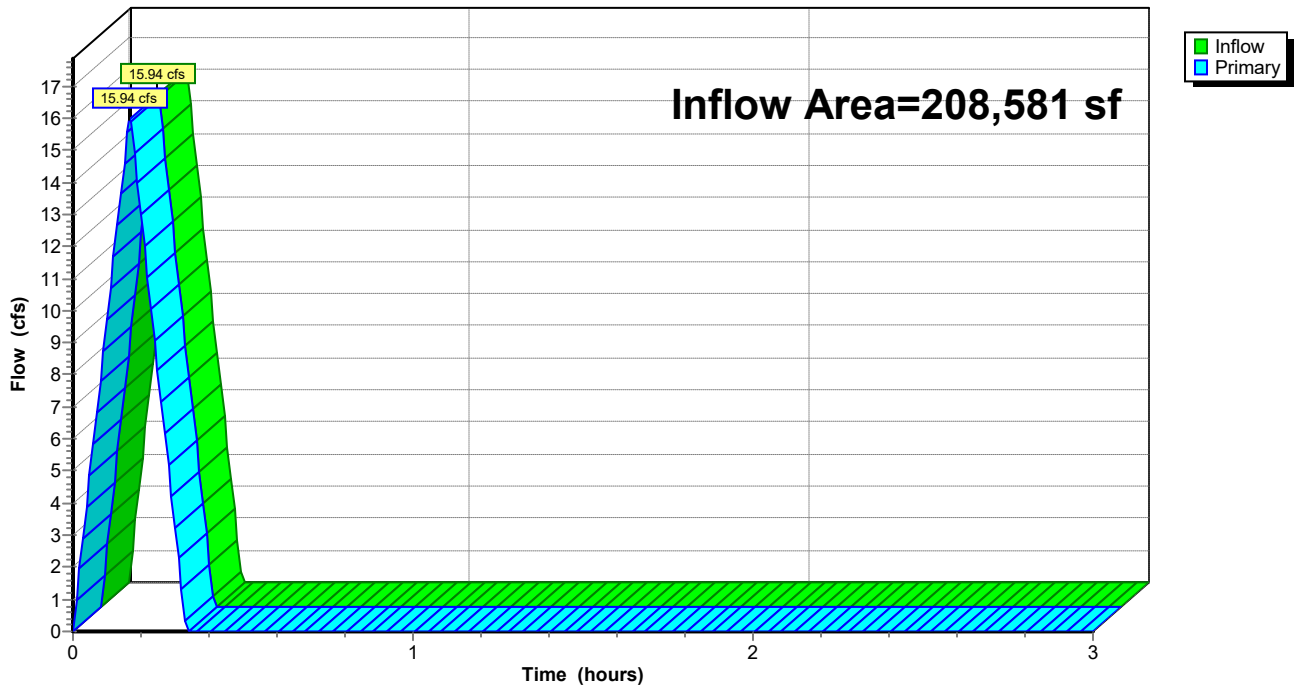
## Summary for Link Pre-Dev: Pre Dev Runoff

Inflow Area = 208,581 sf, 0.00% Impervious, Inflow Depth = 0.56" for 25-yr event  
Inflow = 15.94 cfs @ 0.17 hrs, Volume= 9,730 cf  
Primary = 15.94 cfs @ 0.17 hrs, Volume= 9,730 cf, Atten= 0%, Lag= 0.0 min

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

## Link Pre-Dev: Pre Dev Runoff

Hydrograph





### Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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### Summary for Subcatchment A1: Drainage Basin A1

Runoff = 9.73 cfs @ 0.17 hrs, Volume= 5,939 cf, Depth= 0.66"  
Routed to Link Pre-Dev : Pre Dev Runoff

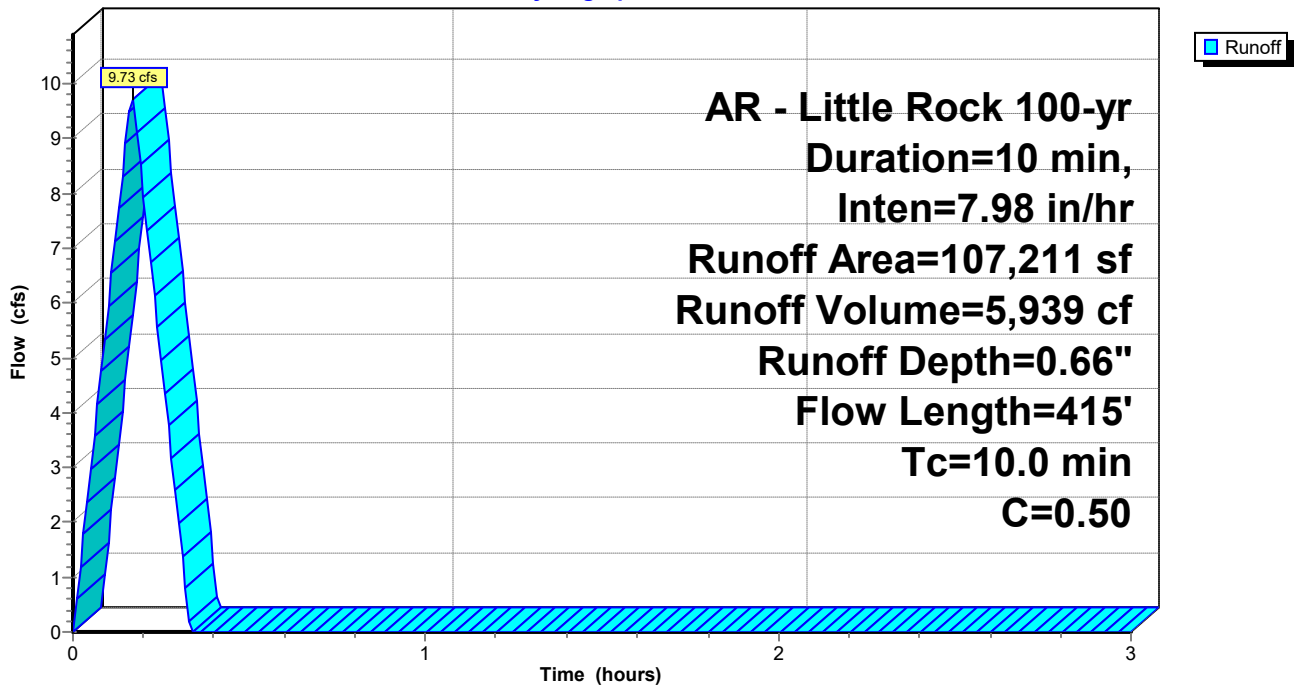
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
107,211	0.50	Existing Natural Vegetation
107,211		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment A1: Drainage Basin A1

Hydrograph



### Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Prepared by Phillip Lewis Engineering

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### Summary for Subcatchment A2: Drainage Basin A2

Runoff = 9.20 cfs @ 0.17 hrs, Volume= 5,615 cf, Depth= 0.66"  
Routed to Link Pre-Dev : Pre Dev Runoff

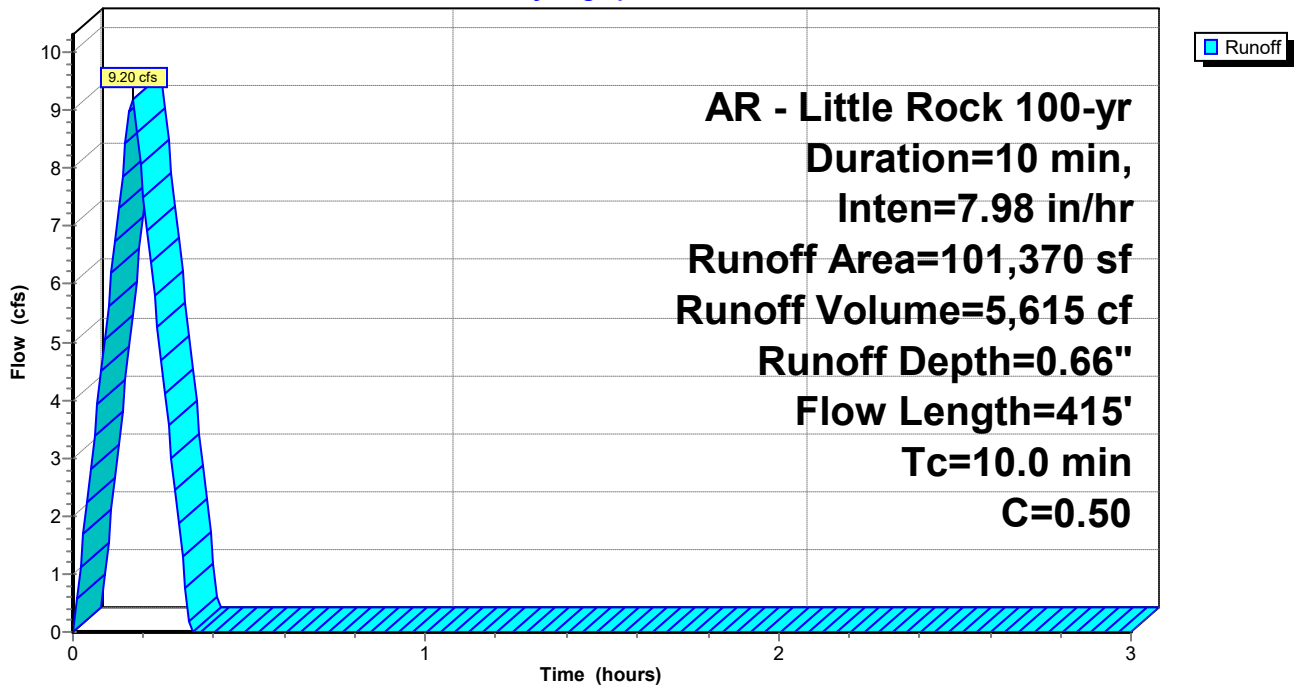
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
101,370	0.50	Existing Natural Vegetation
101,370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

### Subcatchment A2: Drainage Basin A2

Hydrograph



# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Prepared by Phillip Lewis Engineering

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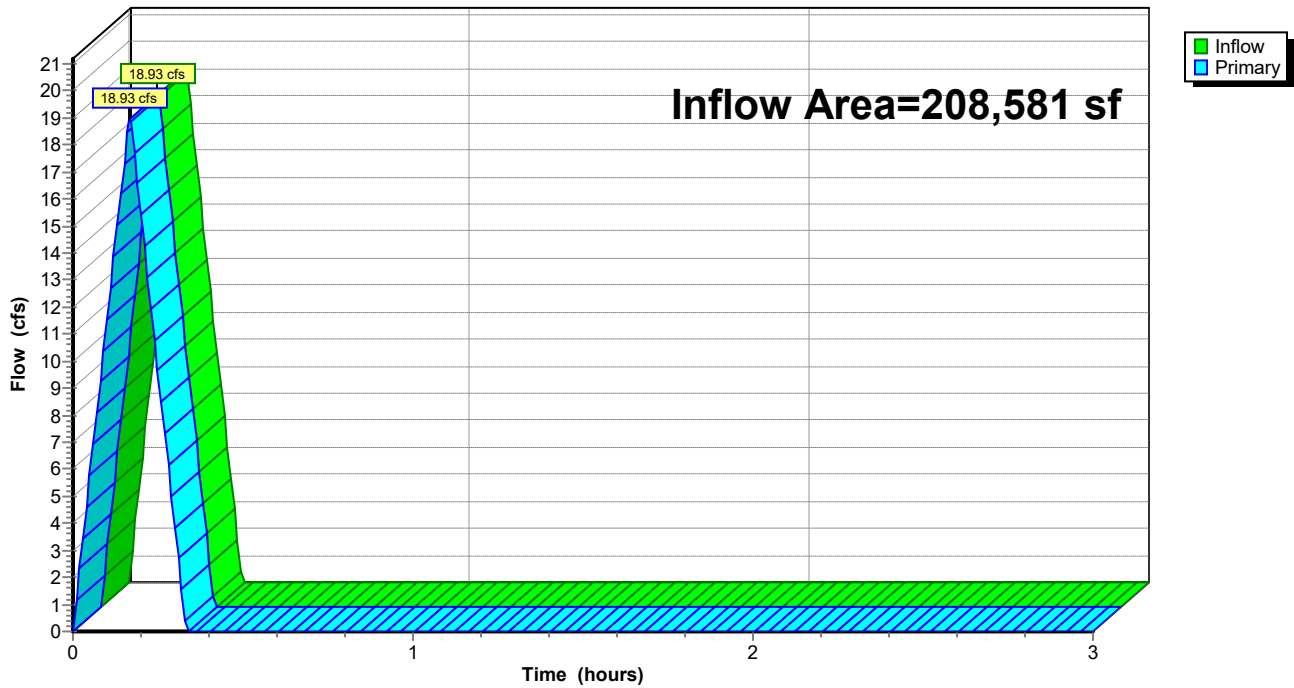
## Summary for Link Pre-Dev: Pre Dev Runoff

Inflow Area = 208,581 sf, 0.00% Impervious, Inflow Depth = 0.66" for 100-yr event  
Inflow = 18.93 cfs @ 0.17 hrs, Volume= 11,554 cf  
Primary = 18.93 cfs @ 0.17 hrs, Volume= 11,554 cf, Atten= 0%, Lag= 0.0 min

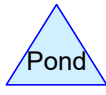
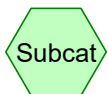
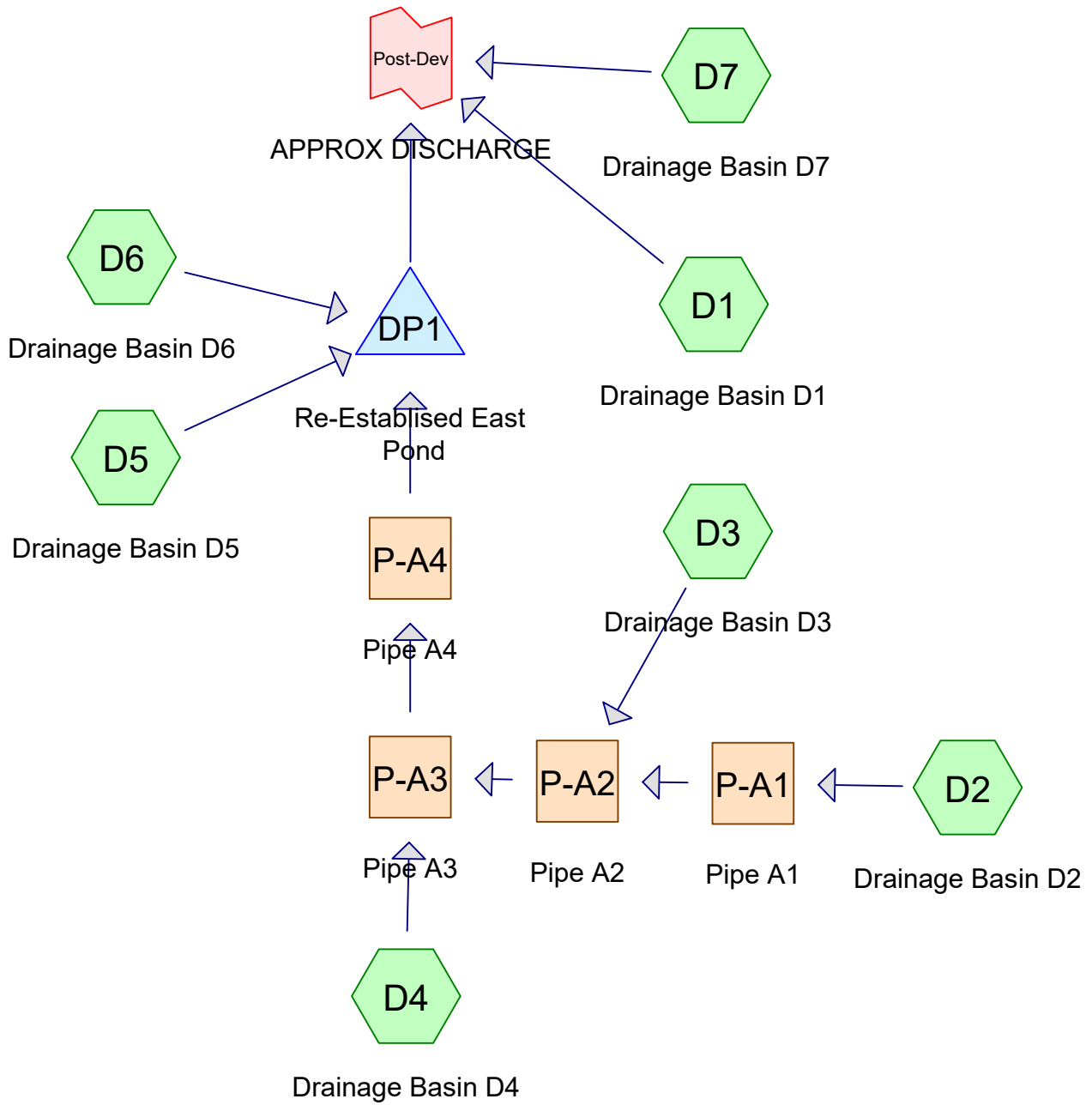
Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

## Link Pre-Dev: Pre Dev Runoff

Hydrograph



## POST DEVELOPMENT HYDROGRAPHS



**Routing Diagram for Summerwood Gym 3 2-yr**  
 Prepared by Phillip Lewis Engineering, Printed 1/11/2024  
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# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Printed 1/11/2024

## Summary for Subcatchment D1: Drainage Basin D1

Runoff = 4.32 cfs @ 0.09 hrs, Volume= 2,586 cf, Depth= 0.64"  
Routed to Link Post-Dev : APPROX DISCHARGE

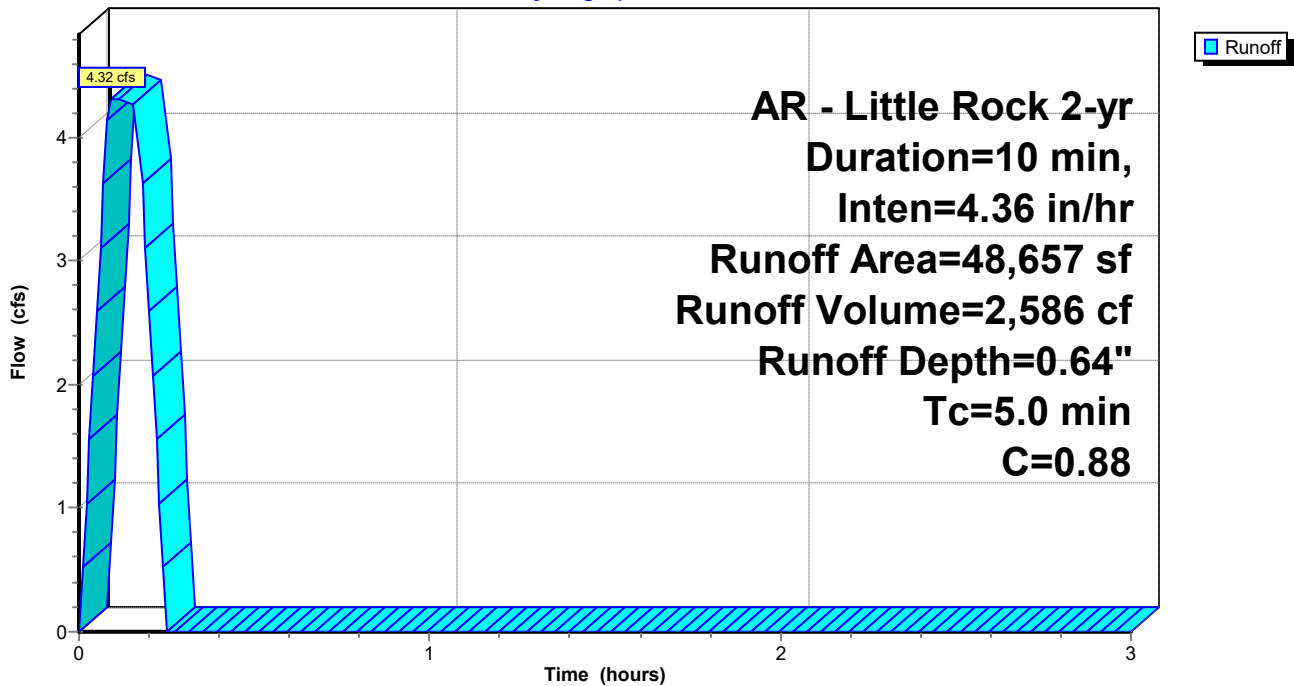
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
3,421	0.40	Sod Yard
45,236	0.92	Road, Drives, Sidewalks
48,657	0.88	Weighted Average
48,657		100.00% Pervious Area

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

## Subcatchment D1: Drainage Basin D1

Hydrograph



# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Printed 1/11/2024

## Summary for Subcatchment D2: Drainage Basin D2

Runoff = 1.85 cfs @ 0.09 hrs, Volume= 1,106 cf, Depth= 0.54"

Routed to Reach P-A1 : Pipe A1

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

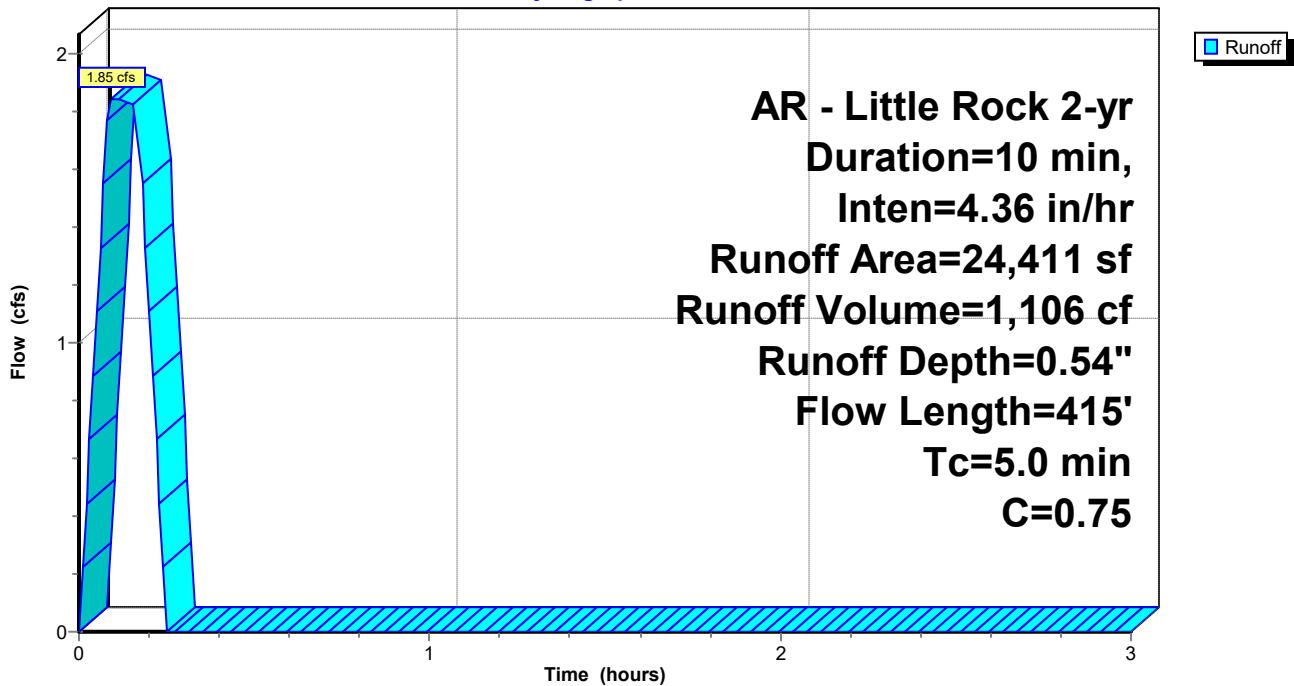
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
8,845	0.45	Rip Rap Embankment
15,566	0.92	Roof, Drives, Sidewalks
24,411	0.75	Weighted Average
24,411		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 D2: Drainage Basin D2

Hydrograph



# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Printed 1/11/2024

## Summary for Subcatchment D3: Drainage Basin D3

Runoff = 1.36 cfs @ 0.09 hrs, Volume= 813 cf, Depth= 0.64"

Routed to Reach P-A2 : Pipe A2

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

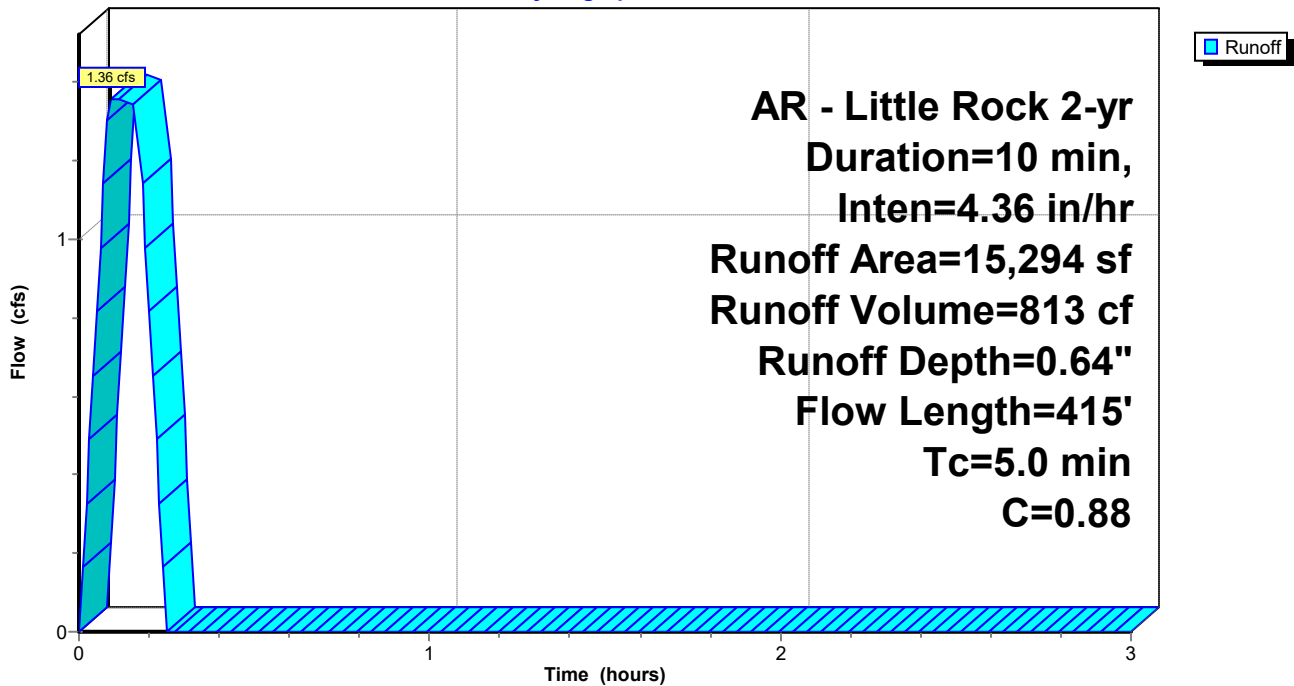
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
1,065	0.40	Sod Yard
14,229	0.92	Paving, Sidewalks
15,294	0.88	Weighted Average
15,294		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 D3: Drainage Basin D3

Hydrograph





# Summerwood Gym 3 2-yr

AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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## Summary for Subcatchment D4: Drainage Basin D4

Runoff = 1.91 cfs @ 0.17 hrs, Volume= 1,163 cf, Depth= 0.44"

Routed to Reach P-A3 : Pipe A3

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

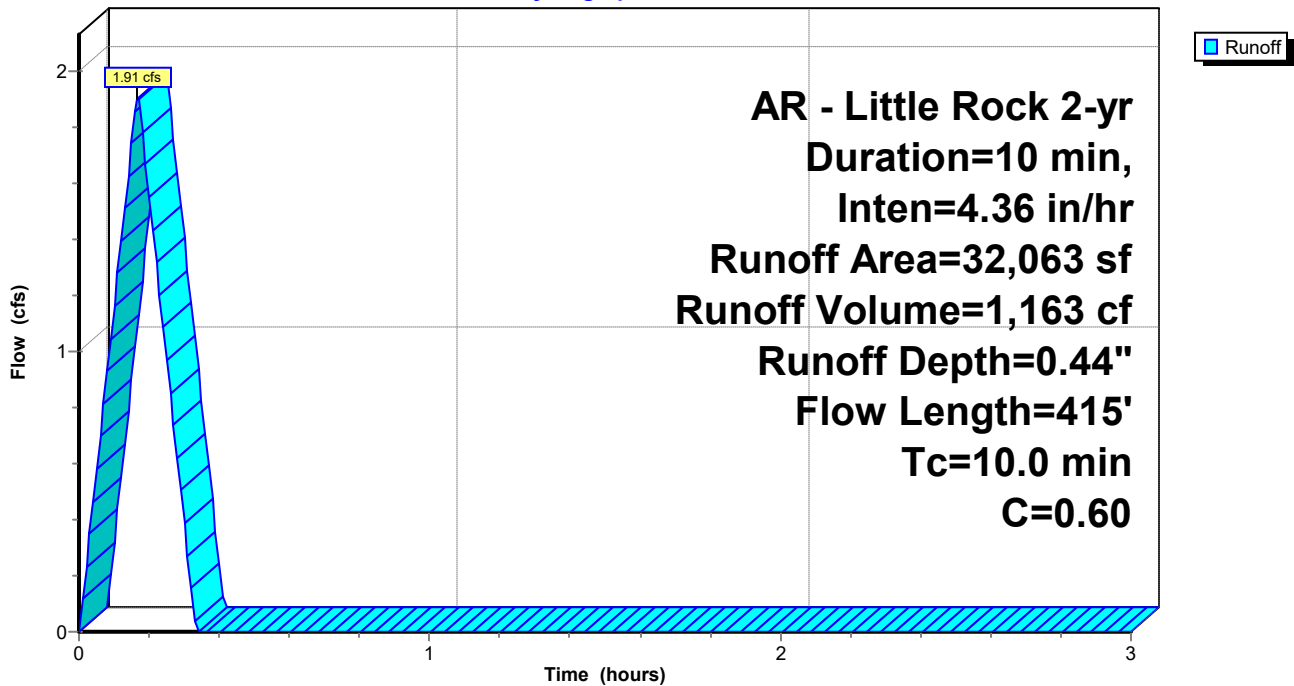
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
20,032	0.40	
12,031	0.92	
32,063	0.60	Weighted Average
32,063		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

## Subcatchment D4: Drainage Basin D4

Hydrograph



# Summerwood Gym 3 2-yr

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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## Summary for Subcatchment D5: Drainage Basin D5

Runoff = 2.77 cfs @ 0.09 hrs, Volume= 1,660 cf, Depth= 0.48"  
Routed to Pond DP1 : Re-Established East Pond

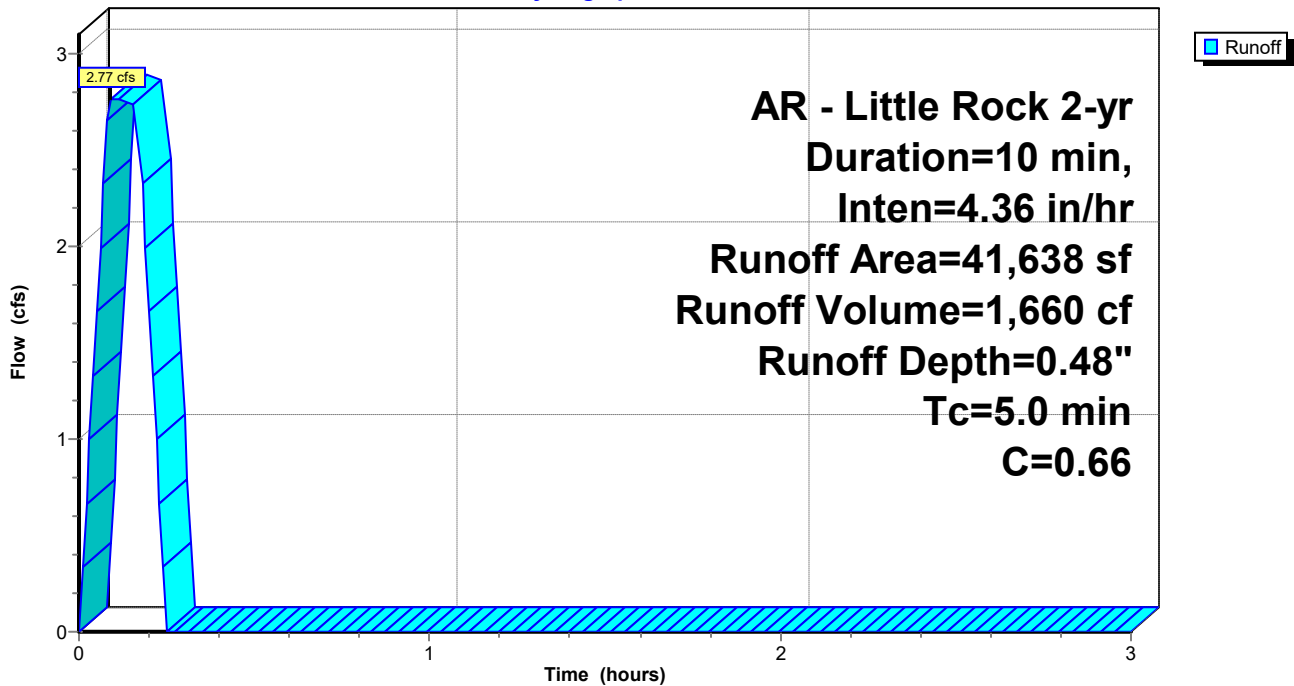
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
21,201	0.40	Sod Yard, Natural Vegetation
20,437	0.92	Paving, Sidewalks
41,638	0.66	Weighted Average
41,638		100.00% Pervious Area

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

## Subcatchment D5: Drainage Basin D5

Hydrograph



# Summerwood Gym 3 2-yr

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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## Summary for Subcatchment D6: Drainage Basin D6

Runoff = 1.77 cfs @ 0.09 hrs, Volume= 1,062 cf, Depth= 0.67"

Routed to Pond DP1 : Re-Established East Pond

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

AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

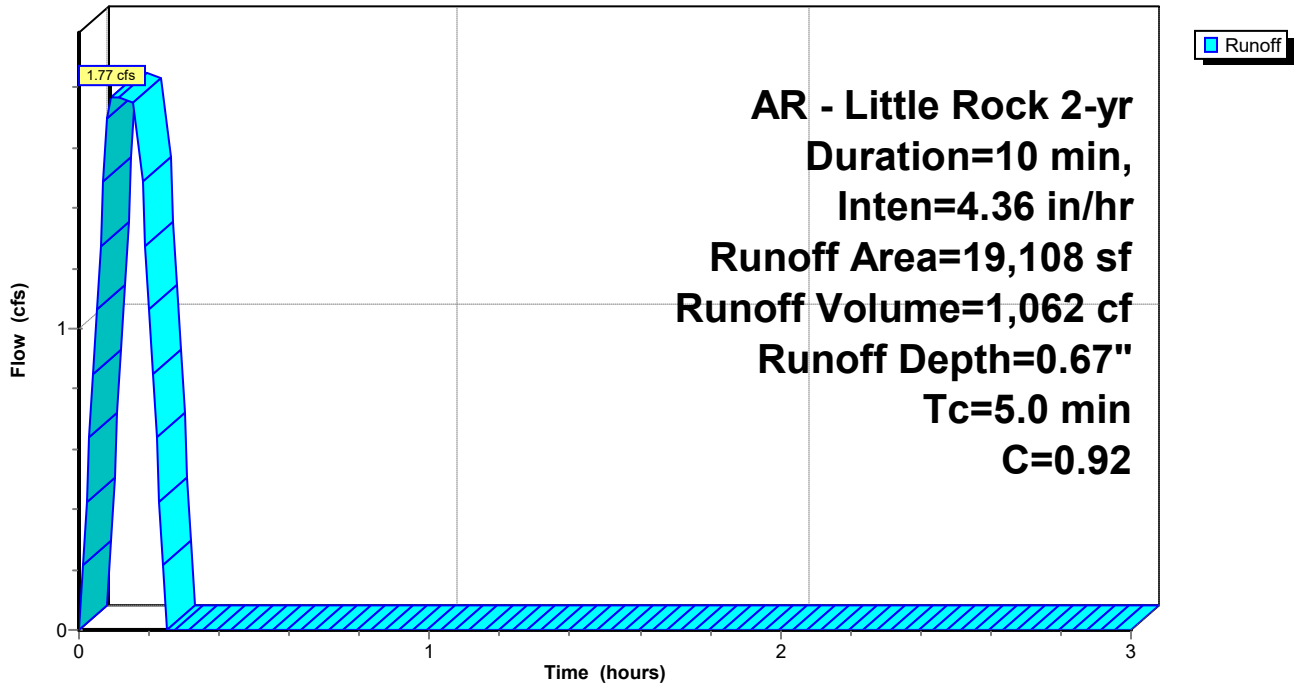
Area (sf)	C	Description
19,108	0.92	Roof
19,108		100.00% Pervious Area

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

## Subcatchment D6: Drainage Basin D6

Hydrograph



# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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## Summary for Subcatchment D7: Drainage Basin D7

Runoff = 1.34 cfs @ 0.09 hrs, Volume= 800 cf, Depth= 0.38"  
Routed to Link Post-Dev : APPROX DISCHARGE

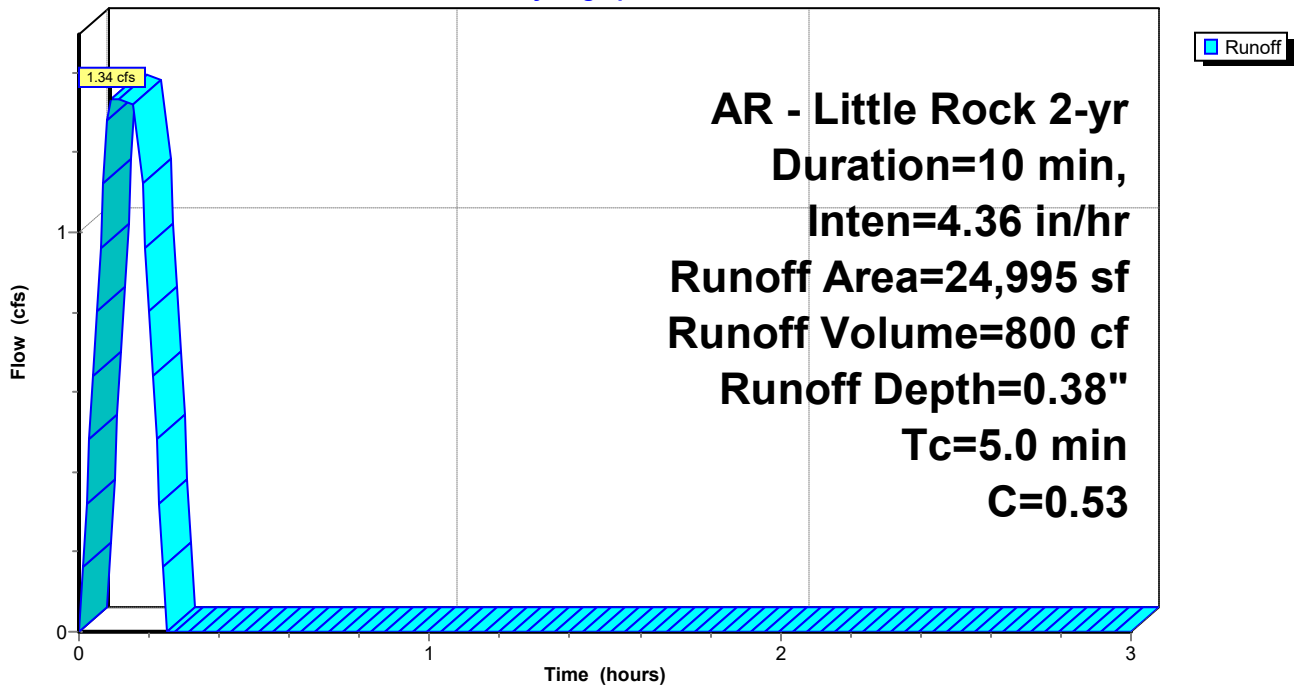
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Area (sf)	C	Description
18,798	0.40	Sod Yard, Natural Vegetation
6,197	0.92	Paving, Sidewalks
24,995	0.53	Weighted Average
24,995		100.00% Pervious Area

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

## Subcatchment D7: Drainage Basin D7

Hydrograph



# Summerwood Gym 3 2-yr

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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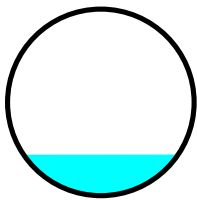
## Summary for Reach P-A1: Pipe A1

Inflow Area = 24,411 sf, 0.00% Impervious, Inflow Depth = 0.54" for 2-yr event  
Inflow = 1.85 cfs @ 0.09 hrs, Volume= 1,106 cf  
Outflow = 1.85 cfs @ 0.11 hrs, Volume= 1,106 cf, Atten= 0%, Lag= 1.2 min  
Routed to Reach P-A2 : Pipe A2

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.38 fps, Min. Travel Time= 0.1 min  
Avg. Velocity= 4.53 fps, Avg. Travel Time= 0.2 min

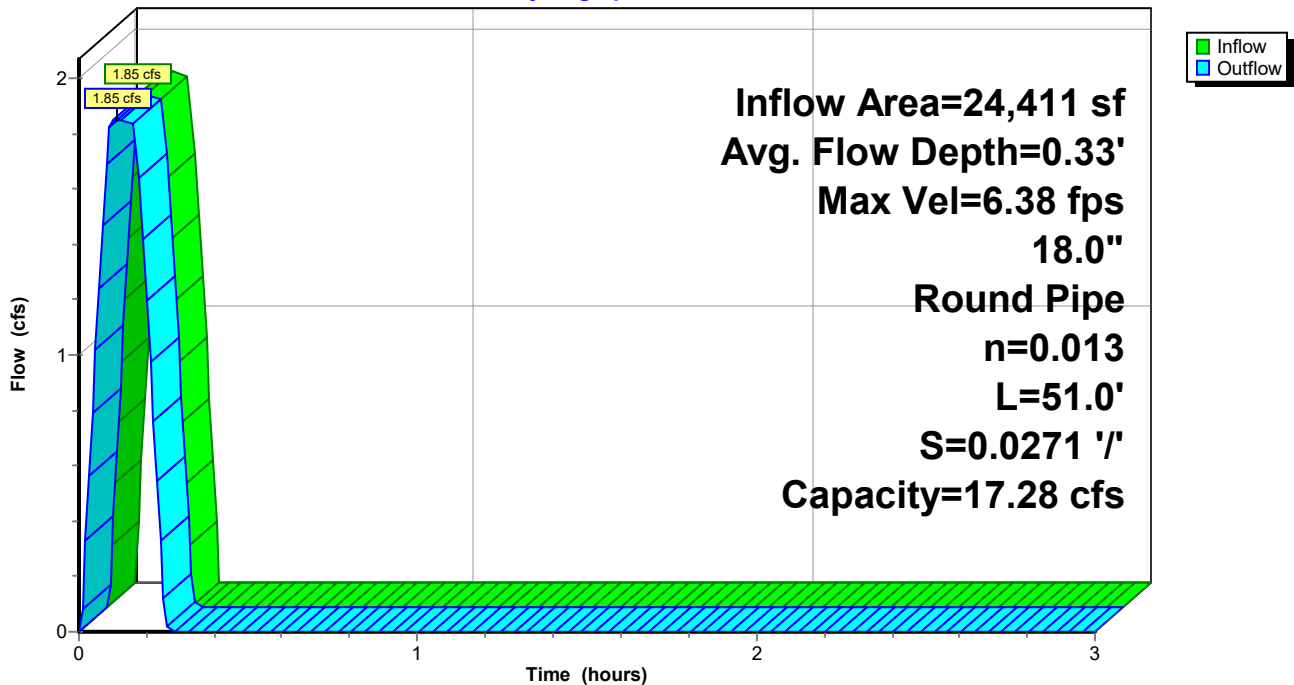
Peak Storage= 15 cf @ 0.09 hrs  
Average Depth at Peak Storage= 0.33' , Surface Width= 1.24'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.28 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 51.0' Slope= 0.0271 '/'  
Inlet Invert= 408.33', Outlet Invert= 406.95'



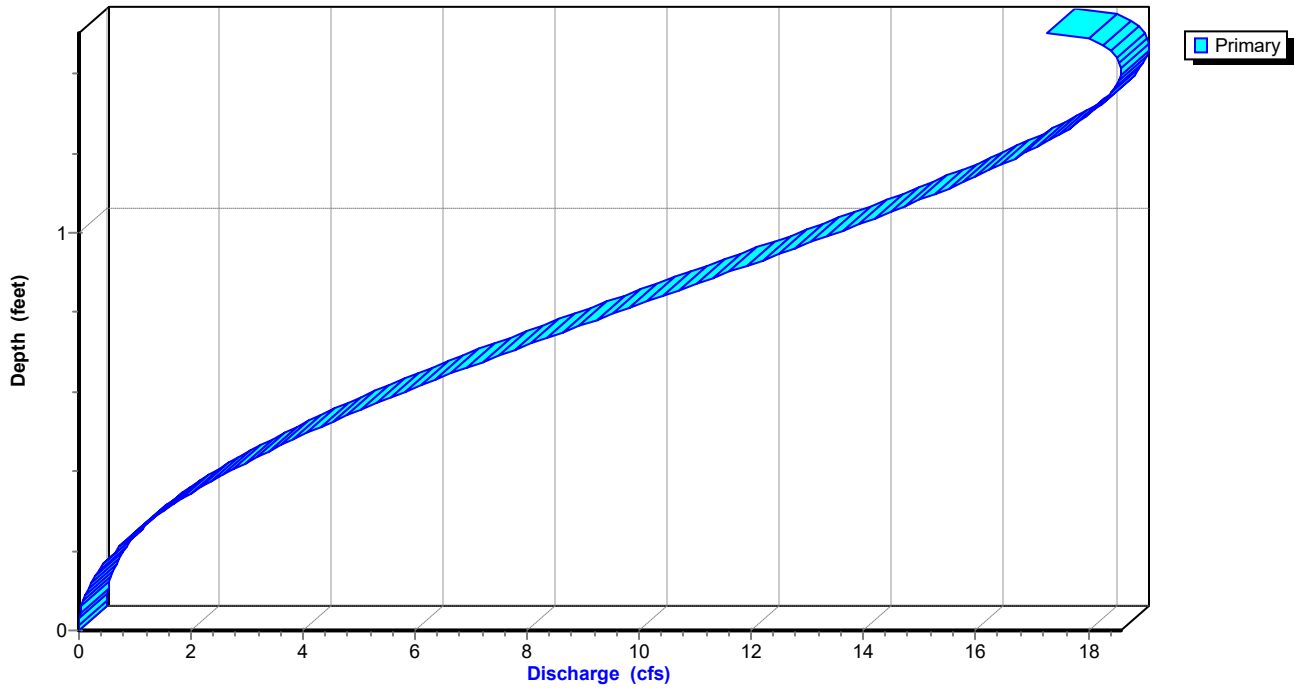
## Reach P-A1: Pipe A1

Hydrograph



### Reach P-A1: Pipe A1

Stage-Discharge



**Summerwood Gym 3 2-yr***AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A1: Pipe A1**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
408.33	0.0	0	409.37	1.3	67
408.35	0.0	0	409.39	1.3	68
408.37	0.0	1	409.41	1.4	69
408.39	0.0	1	409.43	1.4	71
408.41	0.0	2	409.45	1.4	72
408.43	0.1	3	409.47	1.4	73
408.45	0.1	3	409.49	1.5	75
408.47	0.1	4	409.51	1.5	76
408.49	0.1	5	409.53	1.5	77
408.51	0.1	6	409.55	1.5	78
408.53	0.1	7	409.57	1.6	80
408.55	0.2	8	409.59	1.6	81
408.57	0.2	9	409.61	1.6	82
408.59	0.2	10	409.63	1.6	83
408.61	0.2	12	409.65	1.6	84
408.63	0.3	13	409.67	1.7	85
408.65	0.3	14	409.69	1.7	86
408.67	0.3	15	409.71	1.7	87
408.69	0.3	17	409.73	1.7	88
408.71	0.4	18	409.75	1.7	88
408.73	0.4	19	409.77	1.7	89
408.75	0.4	21	409.79	1.8	89
408.77	0.4	22	409.81	1.8	90
408.79	0.5	23	409.83	<b>1.8</b>	<b>90</b>
408.81	0.5	25			
408.83	0.5	26			
408.85	0.5	28			
408.87	0.6	29			
408.89	0.6	31			
408.91	0.6	32			
408.93	0.7	34			
408.95	0.7	35			
408.97	0.7	37			
408.99	0.7	38			
409.01	0.8	40			
409.03	0.8	41			
409.05	0.8	43			
409.07	0.9	44			
409.09	0.9	46			
409.11	0.9	47			
409.13	1.0	49			
409.15	1.0	50			
409.17	1.0	52			
409.19	1.0	53			
409.21	1.1	55			
409.23	1.1	56			
409.25	1.1	58			
409.27	1.2	59			
409.29	1.2	61			
409.31	1.2	62			
409.33	1.3	64			
409.35	1.3	65			

# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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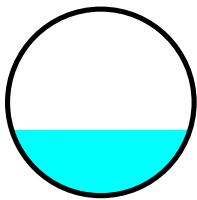
## Summary for Reach P-A2: Pipe A2

Inflow Area = 39,705 sf, 0.00% Impervious, Inflow Depth = 0.58" for 2-yr event  
Inflow = 3.20 cfs @ 0.11 hrs, Volume= 1,919 cf  
Outflow = 3.20 cfs @ 0.16 hrs, Volume= 1,919 cf, Atten= 0%, Lag= 3.0 min  
Routed to Reach P-A3 : Pipe A3

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 5.73 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 2.32 fps, Avg. Travel Time= 1.3 min

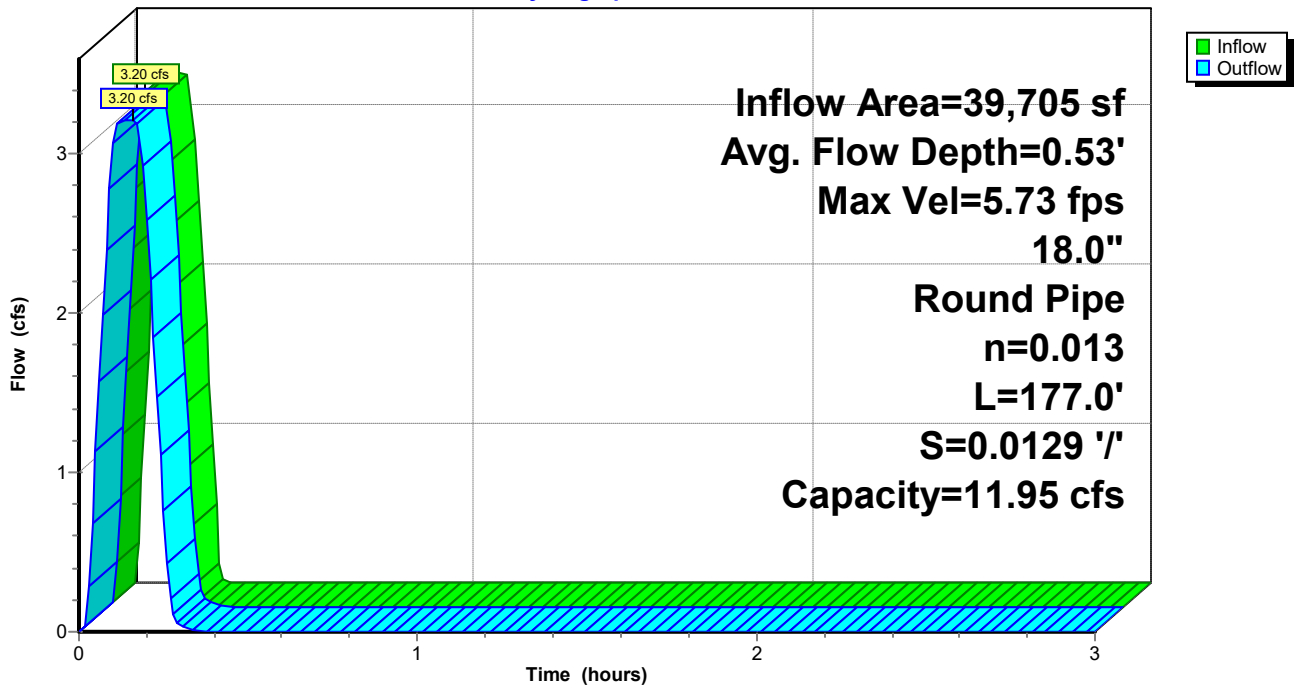
Peak Storage= 99 cf @ 0.16 hrs  
Average Depth at Peak Storage= 0.53' , Surface Width= 1.43'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.95 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 177.0' Slope= 0.0129 '/'  
Inlet Invert= 406.85', Outlet Invert= 404.56'



## Reach P-A2: Pipe A2

Hydrograph





**Summerwood Gym 3 2-yr**

Prepared by Phillip Lewis Engineering

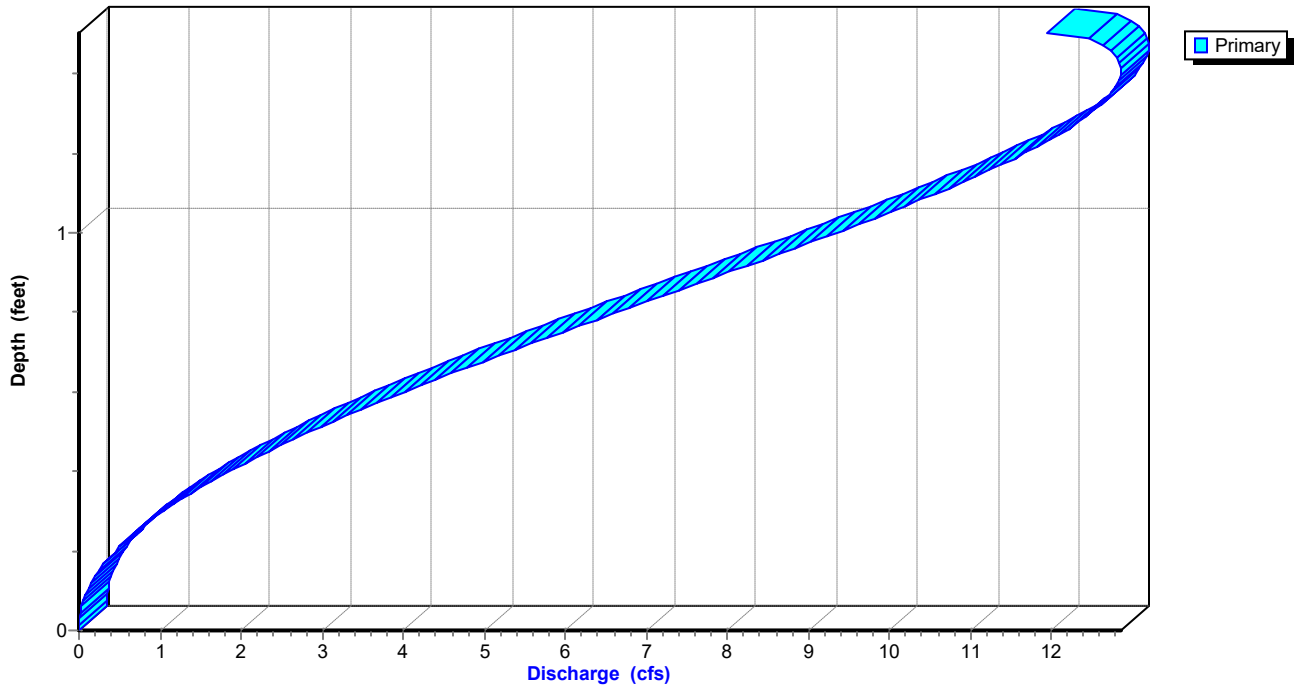
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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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**Reach P-A2: Pipe A2**

Stage-Discharge



**Summerwood Gym 3 2-yr***AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A2: Pipe A2**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
406.85	0.0	0	407.89	1.3	231
406.87	0.0	1	407.91	1.3	236
406.89	0.0	2	407.93	1.4	241
406.91	0.0	4	407.95	1.4	246
406.93	0.0	6	407.97	1.4	250
406.95	0.1	9	407.99	1.4	255
406.97	0.1	12	408.01	1.5	260
406.99	0.1	15	408.03	1.5	264
407.01	0.1	18	408.05	1.5	268
407.03	0.1	21	408.07	1.5	272
407.05	0.1	25	408.09	1.6	277
407.07	0.2	28	408.11	1.6	280
407.09	0.2	32	408.13	1.6	284
407.11	0.2	36	408.15	1.6	288
407.13	0.2	40	408.17	1.6	292
407.15	0.3	45	408.19	1.7	295
407.17	0.3	49	408.21	1.7	298
407.19	0.3	53	408.23	1.7	301
407.21	0.3	58	408.25	1.7	304
407.23	0.4	62	408.27	1.7	306
407.25	0.4	67	408.29	1.7	309
407.27	0.4	72	408.31	1.8	310
407.29	0.4	76	408.33	1.8	312
407.31	0.5	81	408.35	<b>1.8</b>	<b>313</b>
407.33	0.5	86			
407.35	0.5	91			
407.37	0.5	96			
407.39	0.6	101			
407.41	0.6	106			
407.43	0.6	112			
407.45	0.7	117			
407.47	0.7	122			
407.49	0.7	127			
407.51	0.7	133			
407.53	0.8	138			
407.55	0.8	143			
407.57	0.8	148			
407.59	0.9	154			
407.61	0.9	159			
407.63	0.9	164			
407.65	1.0	170			
407.67	1.0	175			
407.69	1.0	180			
407.71	1.0	185			
407.73	1.1	191			
407.75	1.1	196			
407.77	1.1	201			
407.79	1.2	206			
407.81	1.2	211			
407.83	1.2	216			
407.85	1.3	222			
407.87	1.3	226			

# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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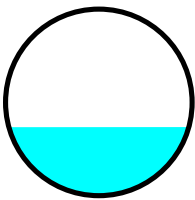
## Summary for Reach P-A3: Pipe A3

Inflow Area = 71,768 sf, 0.00% Impervious, Inflow Depth = 0.52" for 2-yr event  
Inflow = 5.11 cfs @ 0.17 hrs, Volume= 3,082 cf  
Outflow = 5.07 cfs @ 0.17 hrs, Volume= 3,082 cf, Atten= 1%, Lag= 0.3 min  
Routed to Reach P-A4 : Pipe A4

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 8.64 fps, Min. Travel Time= 0.2 min  
Avg. Velocity= 3.61 fps, Avg. Travel Time= 0.5 min

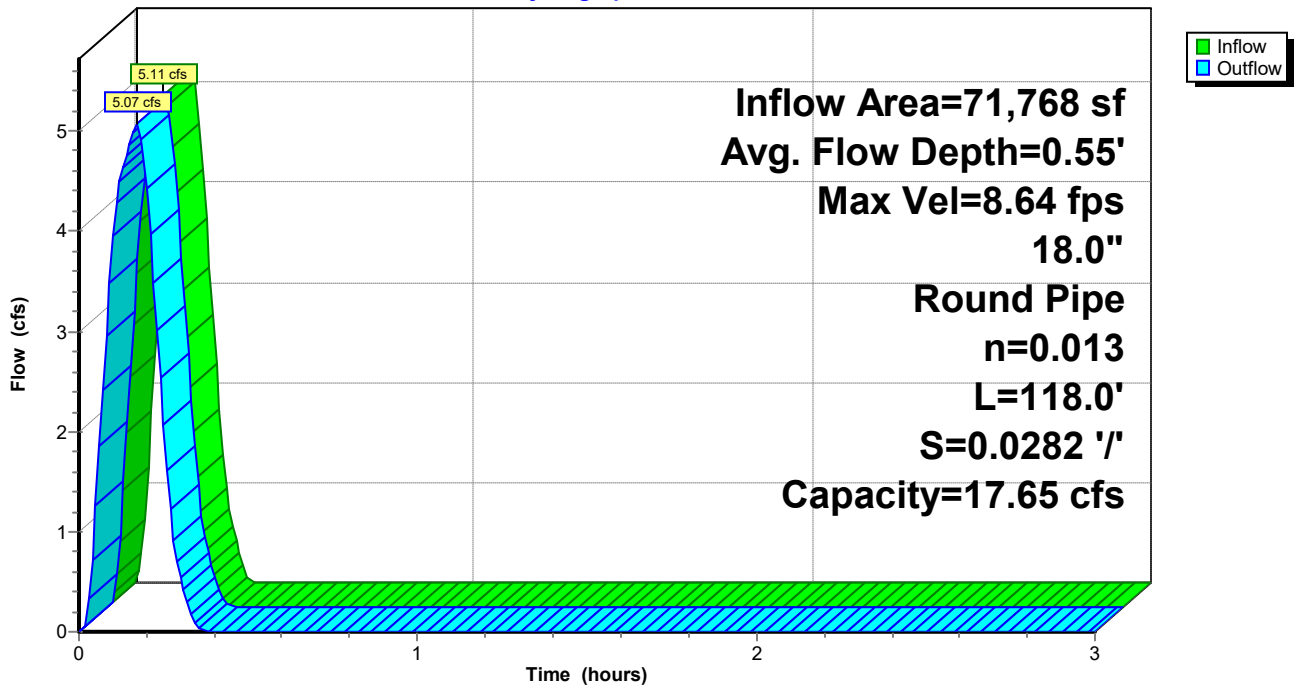
Peak Storage= 70 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.55' , Surface Width= 1.45'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.65 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 118.0' Slope= 0.0282 '/'  
Inlet Invert= 404.46', Outlet Invert= 401.13'



## Reach P-A3: Pipe A3

### Hydrograph



**Summerwood Gym 3 2-yr**

Prepared by Phillip Lewis Engineering

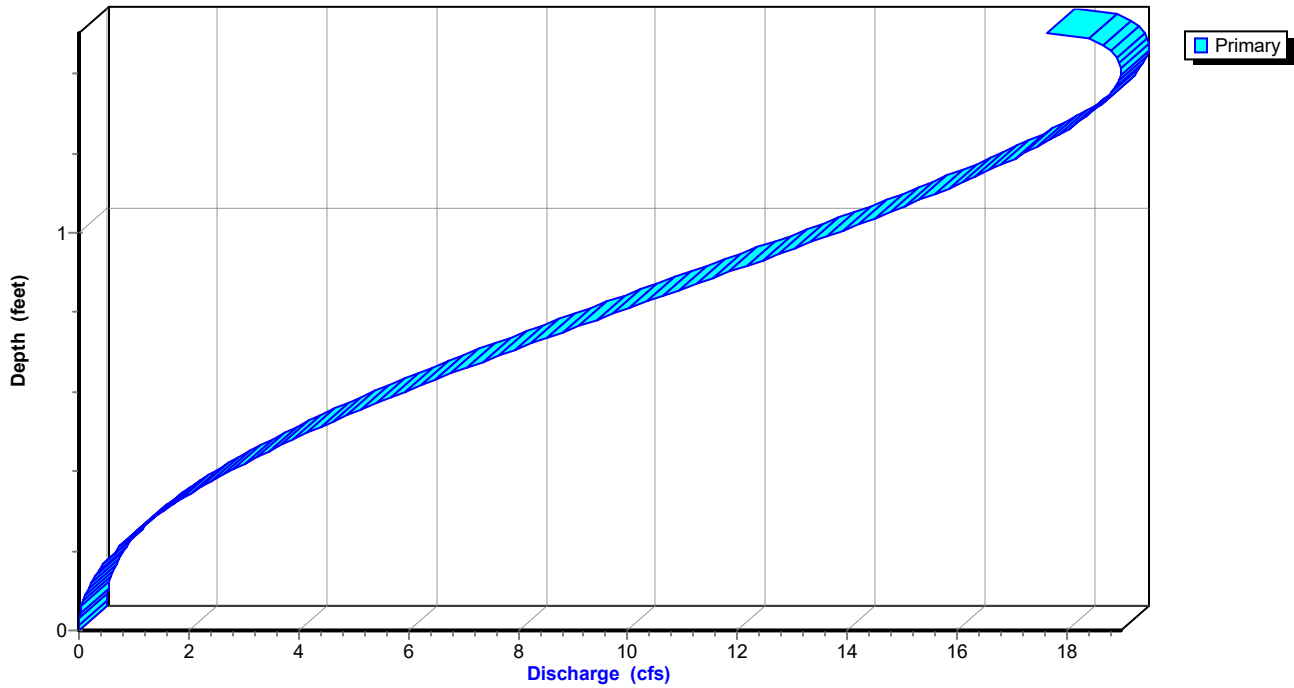
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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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**Reach P-A3: Pipe A3**

Stage-Discharge



**Summerwood Gym 3 2-yr***AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr*

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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**Stage-Area-Storage for Reach P-A3: Pipe A3**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
404.46	0.0	0	405.50	1.3	154
404.48	0.0	1	405.52	1.3	158
404.50	0.0	2	405.54	1.4	161
404.52	0.0	3	405.56	1.4	164
404.54	0.0	4	405.58	1.4	167
404.56	0.1	6	405.60	1.4	170
404.58	0.1	8	405.62	1.5	173
404.60	0.1	10	405.64	1.5	176
404.62	0.1	12	405.66	1.5	179
404.64	0.1	14	405.68	1.5	182
404.66	0.1	17	405.70	1.6	184
404.68	0.2	19	405.72	1.6	187
404.70	0.2	22	405.74	1.6	190
404.72	0.2	24	405.76	1.6	192
404.74	0.2	27	405.78	1.6	194
404.76	0.3	30	405.80	1.7	197
404.78	0.3	33	405.82	1.7	199
404.80	0.3	35	405.84	1.7	201
404.82	0.3	38	405.86	1.7	203
404.84	0.4	42	405.88	1.7	204
404.86	0.4	45	405.90	1.7	206
404.88	0.4	48	405.92	1.8	207
404.90	0.4	51	405.94	1.8	208
404.92	0.5	54	405.96	<b>1.8</b>	<b>209</b>
404.94	0.5	58			
404.96	0.5	61			
404.98	0.5	64			
405.00	0.6	68			
405.02	0.6	71			
405.04	0.6	74			
405.06	0.7	78			
405.08	0.7	81			
405.10	0.7	85			
405.12	0.7	88			
405.14	0.8	92			
405.16	0.8	95			
405.18	0.8	99			
405.20	0.9	102			
405.22	0.9	106			
405.24	0.9	110			
405.26	1.0	113			
405.28	1.0	117			
405.30	1.0	120			
405.32	1.0	124			
405.34	1.1	127			
405.36	1.1	131			
405.38	1.1	134			
405.40	1.2	138			
405.42	1.2	141			
405.44	1.2	144			
405.46	1.3	148			
405.48	1.3	151			

# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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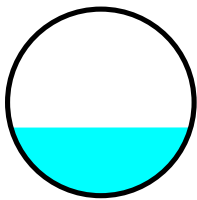
## Summary for Reach P-A4: Pipe A4

Inflow Area = 71,768 sf, 0.00% Impervious, Inflow Depth = 0.52" for 2-yr event  
Inflow = 5.07 cfs @ 0.17 hrs, Volume= 3,082 cf  
Outflow = 5.05 cfs @ 0.18 hrs, Volume= 3,082 cf, Atten= 0%, Lag= 0.4 min  
Routed to Pond DP1 : Re-Established East Pond

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 8.62 fps, Min. Travel Time= 0.3 min  
Avg. Velocity = 3.43 fps, Avg. Travel Time= 0.6 min

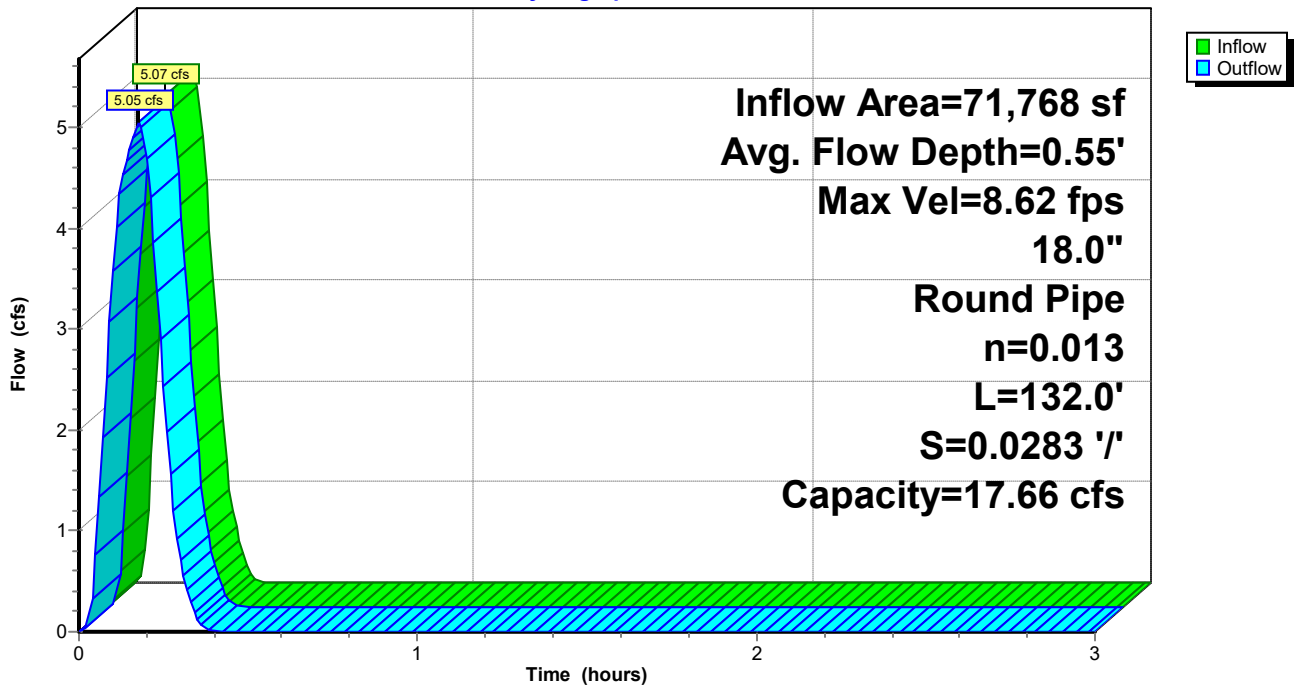
Peak Storage= 77 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.55' , Surface Width= 1.45'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.66 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 132.0' Slope= 0.0283 '/'  
Inlet Invert= 401.03', Outlet Invert= 397.30'



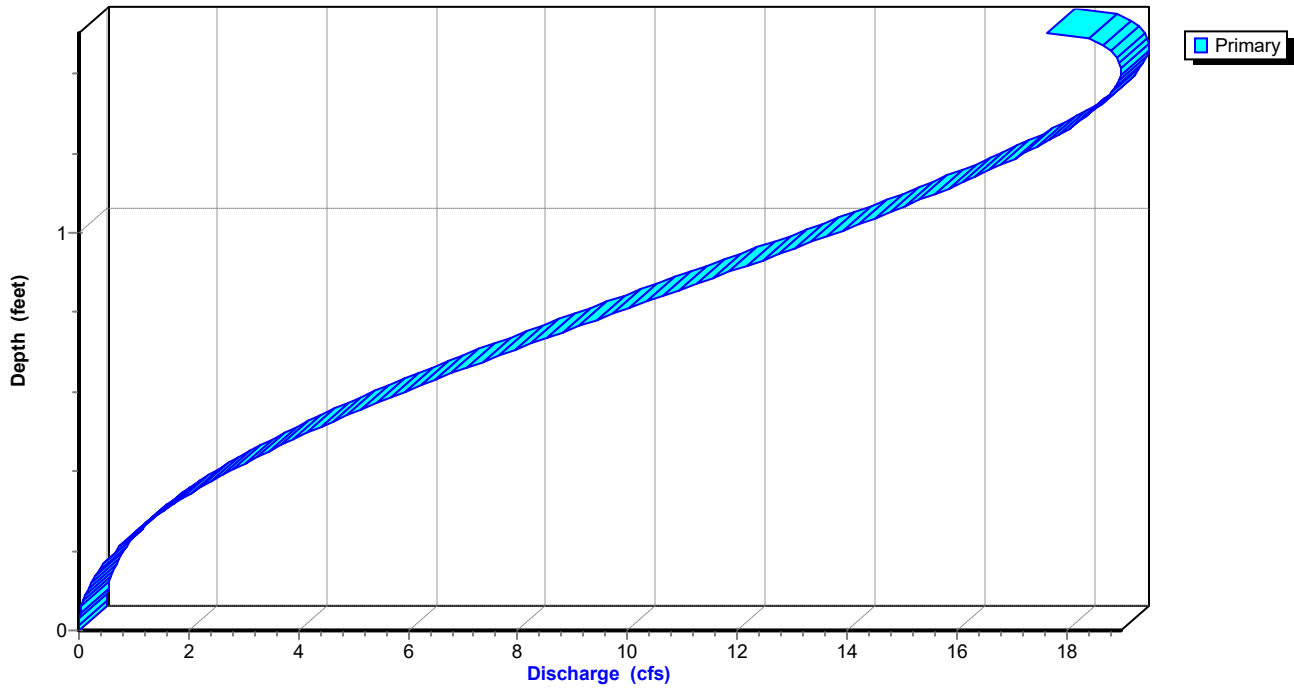
## Reach P-A4: Pipe A4

Hydrograph



### Reach P-A4: Pipe A4

Stage-Discharge



**Summerwood Gym 3 2-yr***AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A4: Pipe A4**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
401.03	0.0	0	402.07	1.3	173
401.05	0.0	1	402.09	1.3	176
401.07	0.0	2	402.11	1.4	180
401.09	0.0	3	402.13	1.4	183
401.11	0.0	5	402.15	1.4	187
401.13	0.1	7	402.17	1.4	190
401.15	0.1	9	402.19	1.5	194
401.17	0.1	11	402.21	1.5	197
401.19	0.1	13	402.23	1.5	200
401.21	0.1	16	402.25	1.5	203
401.23	0.1	18	402.27	1.6	206
401.25	0.2	21	402.29	1.6	209
401.27	0.2	24	402.31	1.6	212
401.29	0.2	27	402.33	1.6	215
401.31	0.2	30	402.35	1.6	217
401.33	0.3	33	402.37	1.7	220
401.35	0.3	36	402.39	1.7	222
401.37	0.3	40	402.41	1.7	225
401.39	0.3	43	402.43	1.7	227
401.41	0.4	46	402.45	1.7	228
401.43	0.4	50	402.47	1.7	230
401.45	0.4	53	402.49	1.8	232
401.47	0.4	57	402.51	1.8	233
401.49	0.5	61	402.53	<b>1.8</b>	<b>233</b>
401.51	0.5	64			
401.53	0.5	68			
401.55	0.5	72			
401.57	0.6	76			
401.59	0.6	79			
401.61	0.6	83			
401.63	0.7	87			
401.65	0.7	91			
401.67	0.7	95			
401.69	0.7	99			
401.71	0.8	103			
401.73	0.8	107			
401.75	0.8	111			
401.77	0.9	115			
401.79	0.9	119			
401.81	0.9	123			
401.83	1.0	127			
401.85	1.0	130			
401.87	1.0	134			
401.89	1.0	138			
401.91	1.1	142			
401.93	1.1	146			
401.95	1.1	150			
401.97	1.2	154			
401.99	1.2	158			
402.01	1.2	161			
402.03	1.3	165			
402.05	1.3	169			



# Summerwood Gym 3 2-yr

AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

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## Summary for Pond DP1: Re-Established East Pond

Inflow Area = 132,514 sf, 0.00% Impervious, Inflow Depth = 0.53" for 2-yr event  
 Inflow = 9.45 cfs @ 0.16 hrs, Volume= 5,804 cf  
 Outflow = 5.39 cfs @ 0.22 hrs, Volume= 5,804 cf, Atten= 43%, Lag= 3.6 min  
 Primary = 5.39 cfs @ 0.22 hrs, Volume= 5,804 cf  
 Routed to Link Post-Dev : APPROX DISCHARGE

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 Peak Elev= 397.63' @ 0.22 hrs Storage= 2,855 cf

Plug-Flow detention time= 7.8 min calculated for 5,804 cf (100% of inflow)  
 Center-of-Mass det. time= 7.7 min ( 16.7 - 9.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	396.00'	8,557 cf	<b>Custom Stage Data</b> Listed below

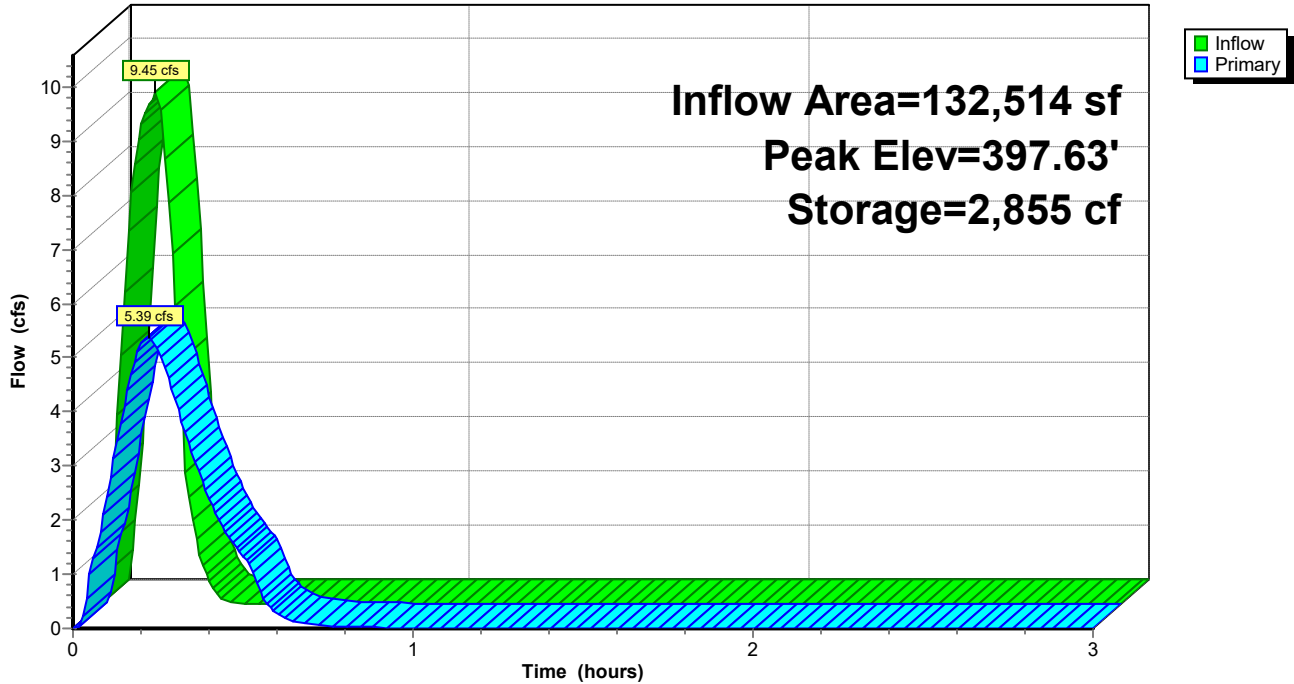
Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
396.00	0	0
396.50	250	250
397.00	1,092	1,342
398.00	2,387	3,729
399.00	2,405	6,134
400.00	2,423	8,557

Device	Routing	Invert	Outlet Devices
#1	Primary	399.00'	<b>5.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#2	Primary	396.00'	<b>1.1' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s) 10.0' Crest Height

**Primary OutFlow** Max=5.38 cfs @ 0.22 hrs HW=397.63' (Free Discharge)  
 1=Sharp-Crested Rectangular Weir ( Controls 0.00 cfs)  
 2=Sharp-Crested Rectangular Weir (Weir Controls 5.38 cfs @ 4.26 fps)

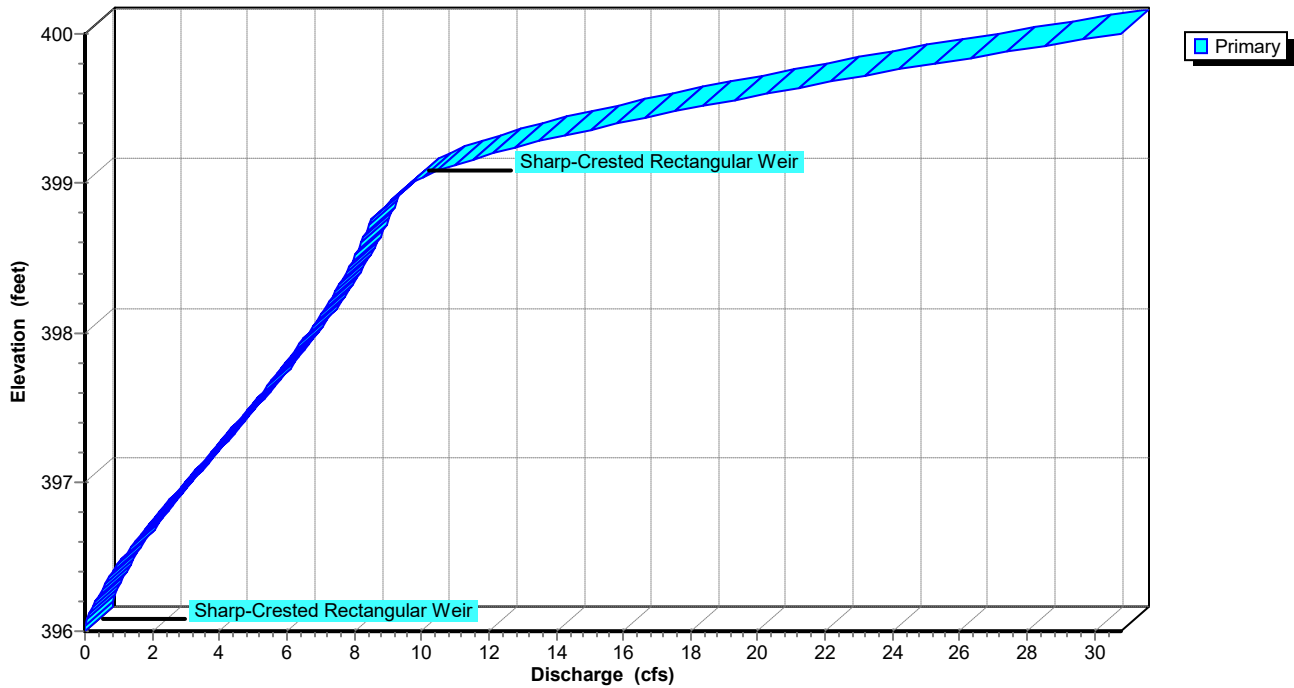
### Pond DP1: Re-Established East Pond

Hydrograph



### Pond DP1: Re-Established East Pond

Stage-Discharge



**Summerwood Gym 3 2-yr**

AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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**Stage-Area-Storage for Pond DP1: Re-Established East Pond**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
396.00	0	398.60	5,172
396.05	25	398.65	5,292
396.10	50	398.70	5,412
396.15	75	398.75	5,533
396.20	100	398.80	5,653
396.25	125	398.85	5,773
396.30	150	398.90	5,893
396.35	175	398.95	6,014
396.40	200	399.00	6,134
396.45	225	399.05	6,255
396.50	250	399.10	6,376
396.55	359	399.15	6,497
396.60	468	399.20	6,619
396.65	578	399.25	6,740
396.70	687	399.30	6,861
396.75	796	399.35	6,982
396.80	905	399.40	7,103
396.85	1,014	399.45	7,224
396.90	1,124	399.50	7,346
396.95	1,233	399.55	7,467
397.00	1,342	399.60	7,588
397.05	1,461	399.65	7,709
397.10	1,581	399.70	7,830
397.15	1,700	399.75	7,951
397.20	1,819	399.80	8,072
397.25	1,939	399.85	8,194
397.30	2,058	399.90	8,315
397.35	2,177	399.95	8,436
397.40	2,297	400.00	<b>8,557</b>
397.45	2,416		
397.50	2,536		
397.55	2,655		
397.60	2,774		
397.65	2,894		
397.70	3,013		
397.75	3,132		
397.80	3,252		
397.85	3,371		
397.90	3,490		
397.95	3,610		
398.00	3,729		
398.05	3,849		
398.10	3,970		
398.15	4,090		
398.20	4,210		
398.25	4,330		
398.30	4,451		
398.35	4,571		
398.40	4,691		
398.45	4,811		
398.50	4,932		
398.55	5,052		

# Summerwood Gym 3 2-yr

Prepared by Phillip Lewis Engineering

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AR - Little Rock 2-yr Duration=10 min, Inten=4.36 in/hr

Printed 1/11/2024

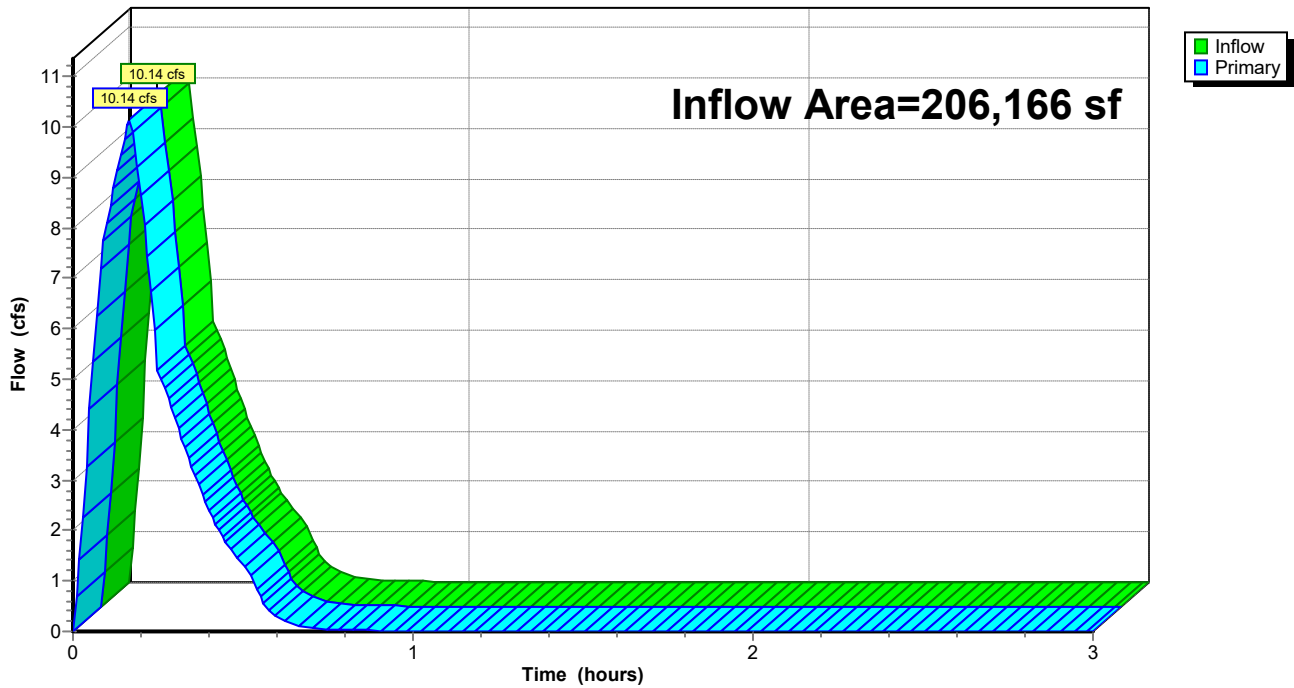
## Summary for Link Post-Dev: APPROX DISCHARGE

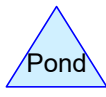
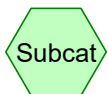
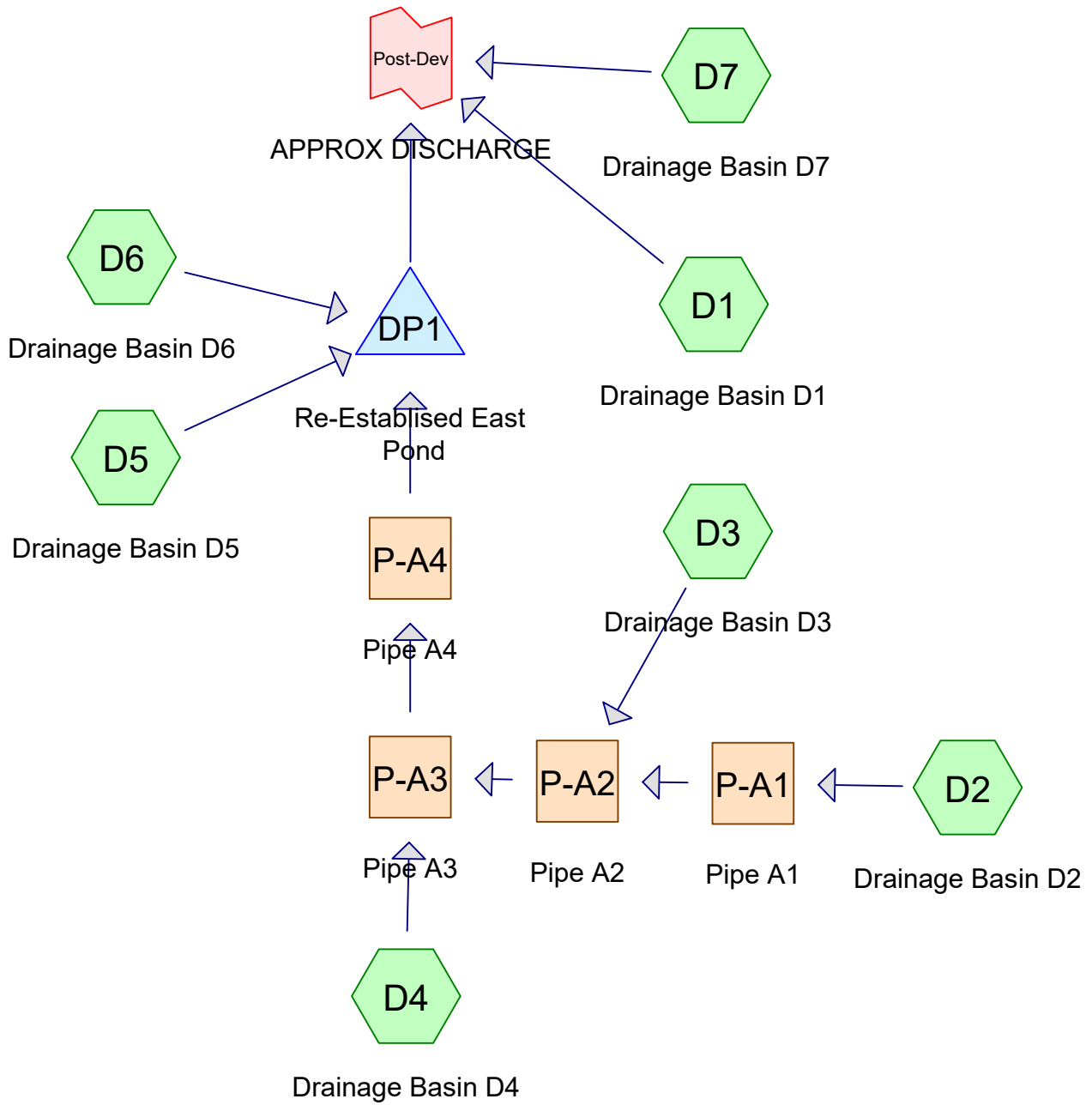
Inflow Area = 206,166 sf, 0.00% Impervious, Inflow Depth = 0.53" for 2-yr event  
Inflow = 10.14 cfs @ 0.17 hrs, Volume= 9,191 cf  
Primary = 10.14 cfs @ 0.17 hrs, Volume= 9,191 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post-Dev: APPROX DISCHARGE

Hydrograph





**Routing Diagram for Summerwood Gym 3**  
 Prepared by Phillip Lewis Engineering, Printed 1/11/2024  
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**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Printed 1/11/2024

**Summary for Subcatchment D1: Drainage Basin D1**

Runoff = 5.30 cfs @ 0.09 hrs, Volume= 3,176 cf, Depth= 0.78"  
 Routed to Link Post-Dev : APPROX DISCHARGE

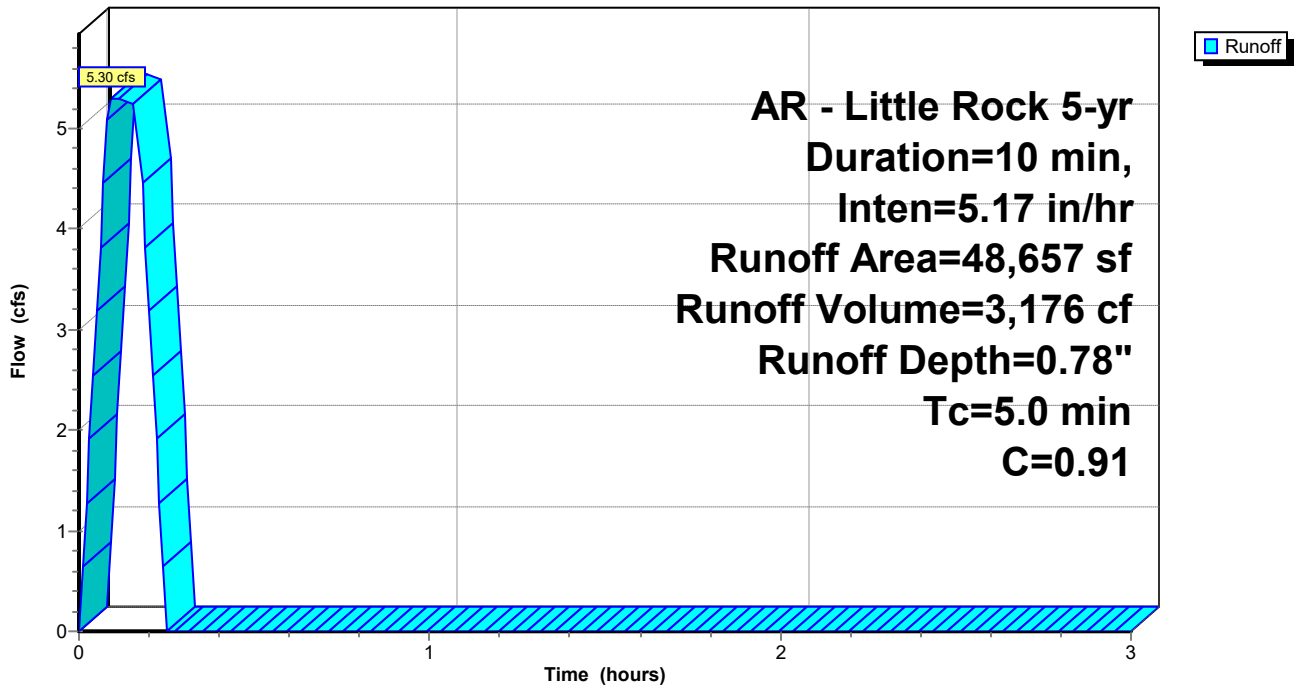
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
3,421	0.40	Sod Yard
45,236	0.95	Road, Drives, Sidewalks
48,657	0.91	Weighted Average
3,421		7.03% Pervious Area
45,236		92.97% Impervious Area

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

**Subcatchment D1: Drainage Basin D1**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Summary for Subcatchment D2: Drainage Basin D2**

Runoff = 2.25 cfs @ 0.09 hrs, Volume= 1,348 cf, Depth= 0.66"

Routed to Reach P-A1 : Pipe A1

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

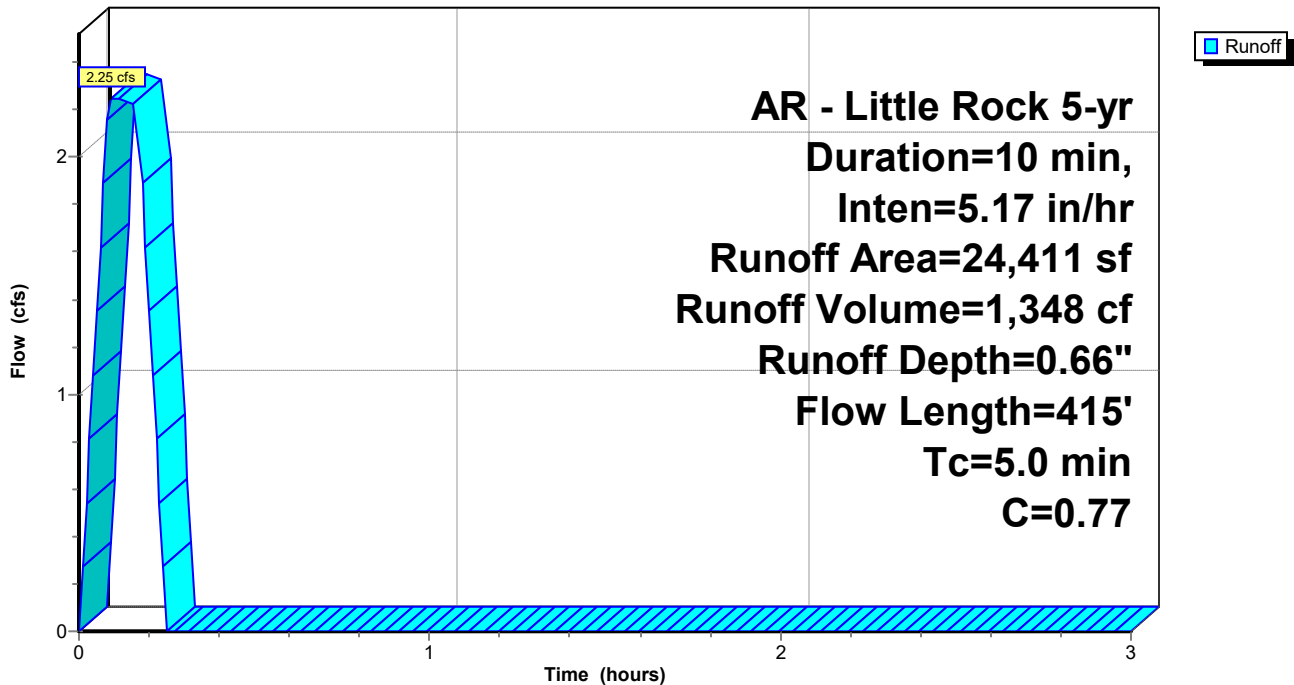
AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
8,845	0.45	Rip Rap Embankment
15,566	0.95	Roof, Drives, Sidewalks
24,411	0.77	Weighted Average
8,845		36.23% Pervious Area
15,566		63.77% Impervious 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 D2: Drainage Basin D2**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Summary for Subcatchment D3: Drainage Basin D3**

Runoff = 1.67 cfs @ 0.09 hrs, Volume= 998 cf, Depth= 0.78"

Routed to Reach P-A2 : Pipe A2

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

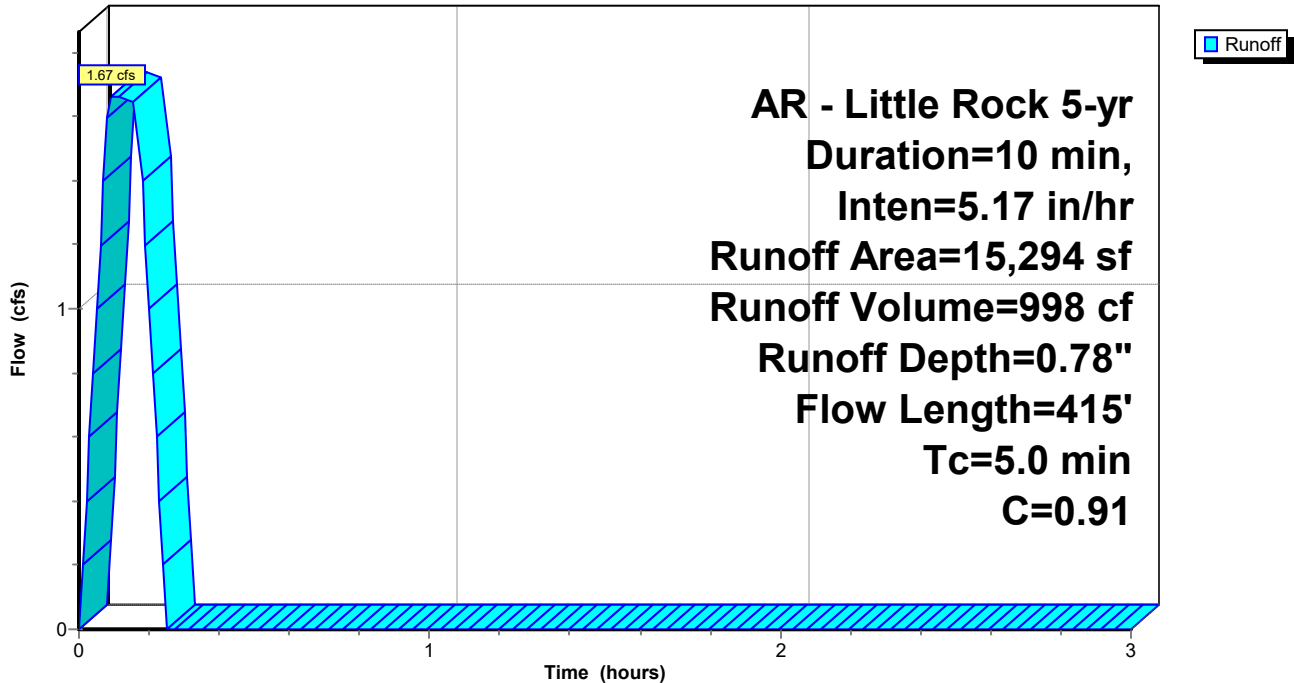
AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
1,065	0.40	Sod Yard
14,229	0.95	Paving, Sidewalks
15,294	0.91	Weighted Average
1,065		6.96% Pervious Area
14,229		93.04% Impervious 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 D3: Drainage Basin D3**

Hydrograph





**Summerwood Gym 3**

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Summary for Subcatchment D4: Drainage Basin D4**

Runoff = 2.30 cfs @ 0.17 hrs, Volume= 1,404 cf, Depth= 0.53"

Routed to Reach P-A3 : Pipe A3

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

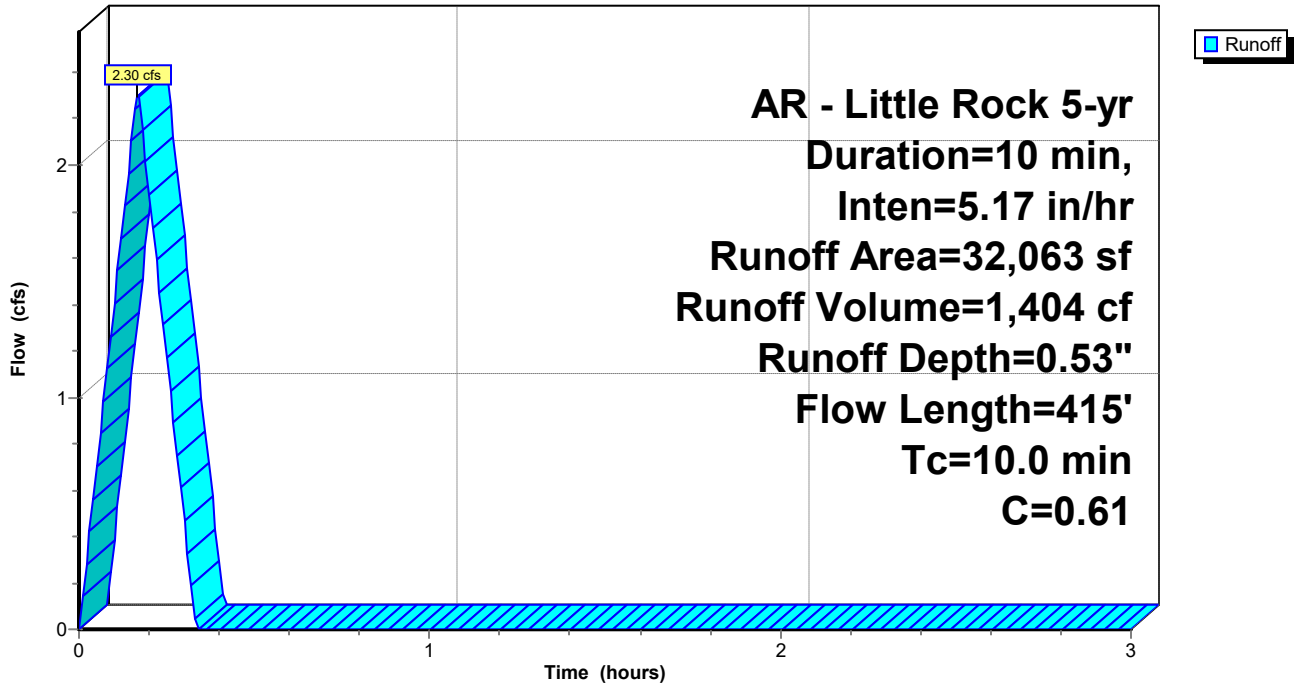
AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
20,032	0.40	
12,031	0.95	
32,063	0.61	Weighted Average
20,032		62.48% Pervious Area
12,031		37.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment D4: Drainage Basin D4**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Summary for Subcatchment D5: Drainage Basin D5**

Runoff = 3.34 cfs @ 0.09 hrs, Volume= 2,001 cf, Depth= 0.58"  
 Routed to Pond DP1 : Re-Established East Pond

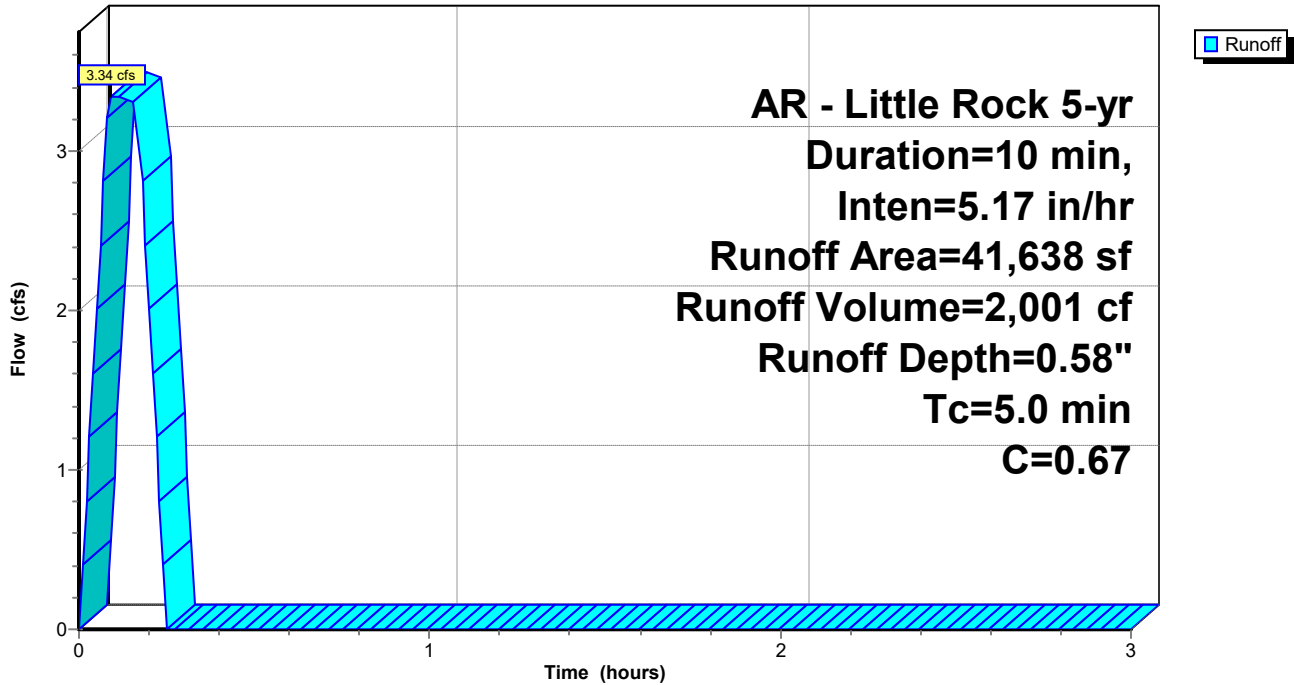
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
21,201	0.40	Sod Yard, Natural Vegetation
20,437	0.95	Paving, Sidewalks
41,638	0.67	Weighted Average
21,201		50.92% Pervious Area
20,437		49.08% Impervious Area

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

**Subcatchment D5: Drainage Basin D5**

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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### Summary for Subcatchment D6: Drainage Basin D6

Runoff = 2.17 cfs @ 0.09 hrs, Volume= 1,302 cf, Depth= 0.82"  
Routed to Pond DP1 : Re-Established East Pond

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=10 min, Inten=5.17 in/hr

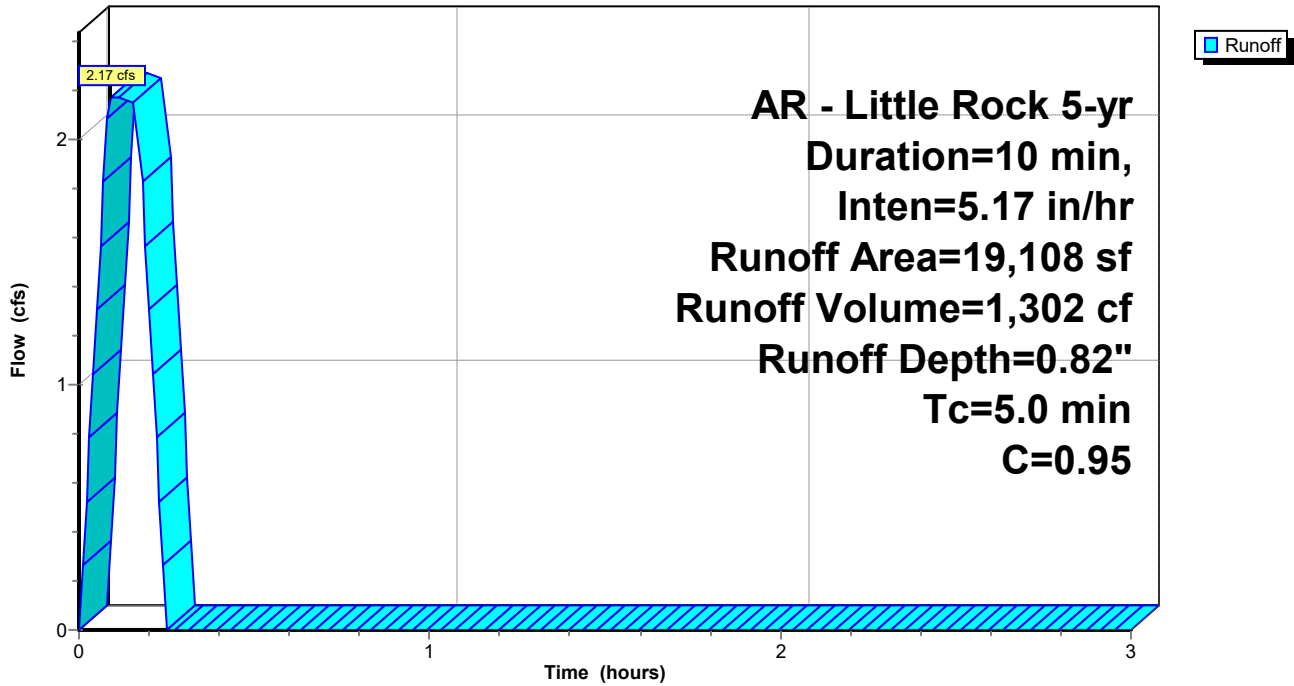
Area (sf)	C	Description
19,108	0.95	Roof
19,108		100.00% Impervious Area

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

### Subcatchment D6: Drainage Basin D6

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Summary for Subcatchment D7: Drainage Basin D7**

Runoff = 1.62 cfs @ 0.09 hrs, Volume= 968 cf, Depth= 0.46"  
 Routed to Link Post-Dev : APPROX DISCHARGE

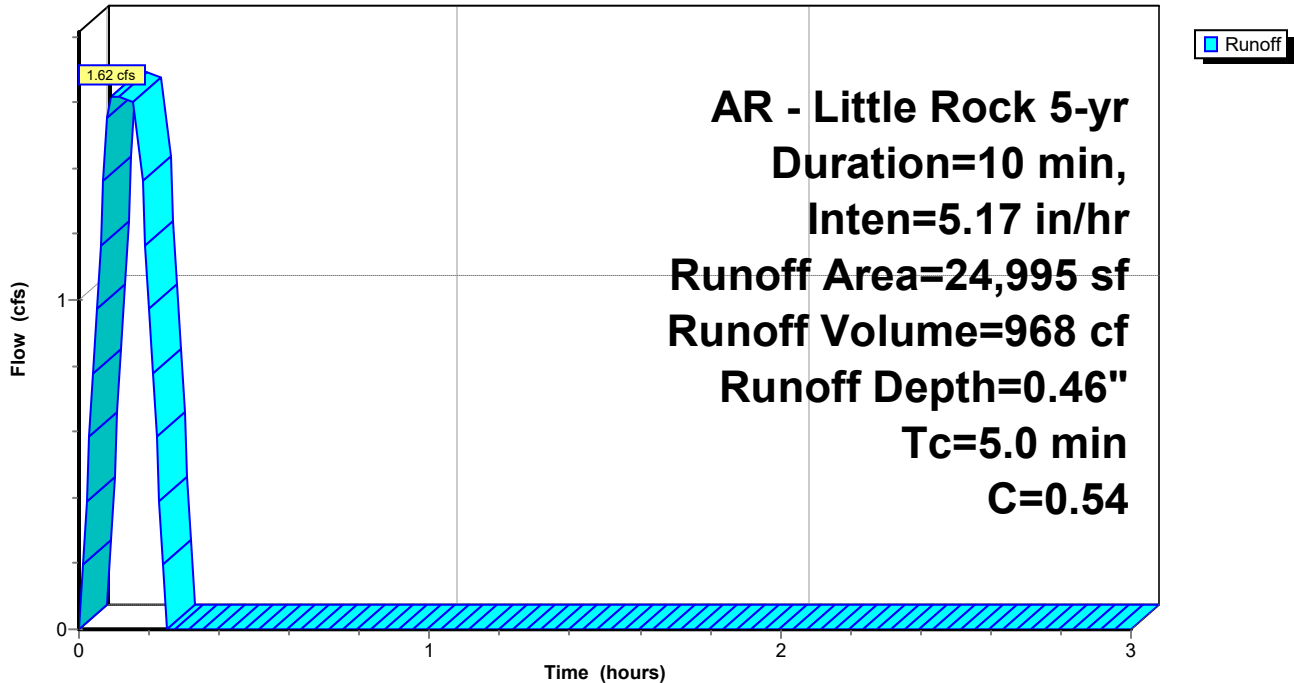
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Area (sf)	C	Description
18,798	0.40	Sod Yard, Natural Vegetation
6,197	0.95	Paving, Sidewalks
24,995	0.54	Weighted Average
18,798		75.21% Pervious Area
6,197		24.79% Impervious Area

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

**Subcatchment D7: Drainage Basin D7**

Hydrograph



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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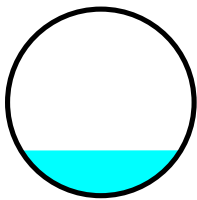
### Summary for Reach P-A1: Pipe A1

Inflow Area = 24,411 sf, 63.77% Impervious, Inflow Depth = 0.66" for 5-yr event  
Inflow = 2.25 cfs @ 0.09 hrs, Volume= 1,348 cf  
Outflow = 2.25 cfs @ 0.11 hrs, Volume= 1,348 cf, Atten= 0%, Lag= 1.2 min  
Routed to Reach P-A2 : Pipe A2

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.75 fps, Min. Travel Time= 0.1 min  
Avg. Velocity= 4.79 fps, Avg. Travel Time= 0.2 min

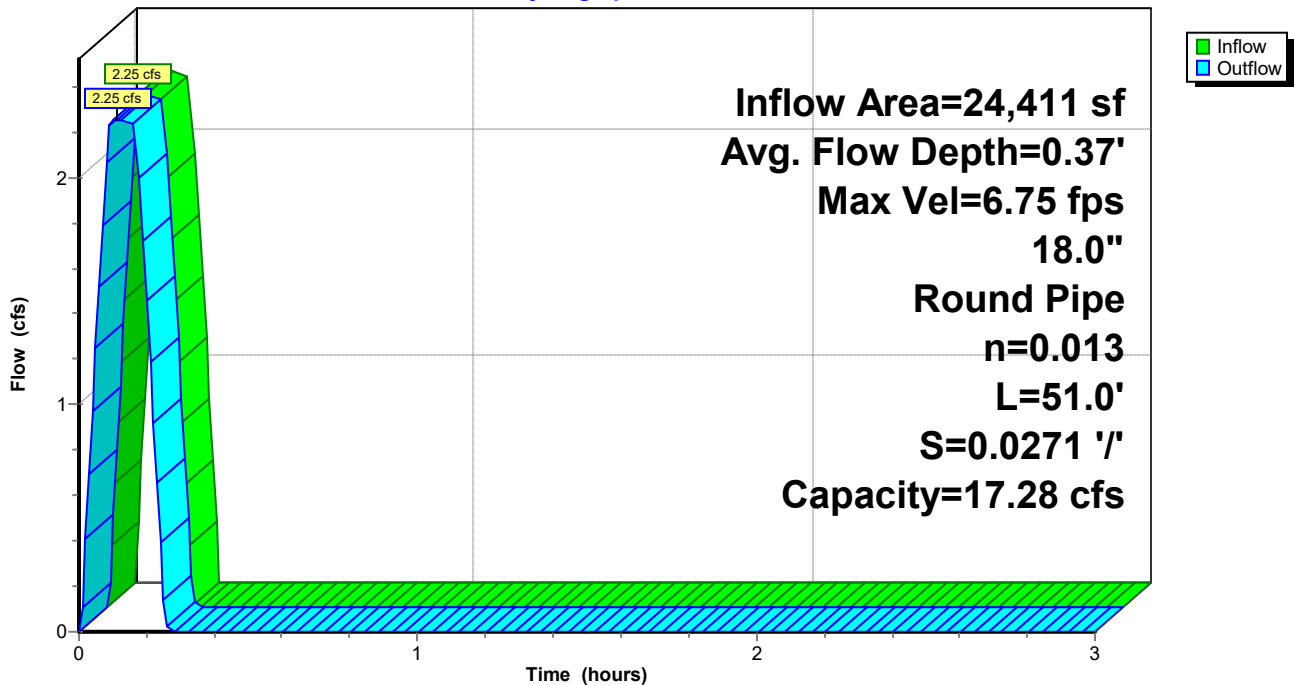
Peak Storage= 17 cf @ 0.09 hrs  
Average Depth at Peak Storage= 0.37' , Surface Width= 1.29'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.28 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 51.0' Slope= 0.0271 '/'  
Inlet Invert= 408.33', Outlet Invert= 406.95'



### Reach P-A1: Pipe A1

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

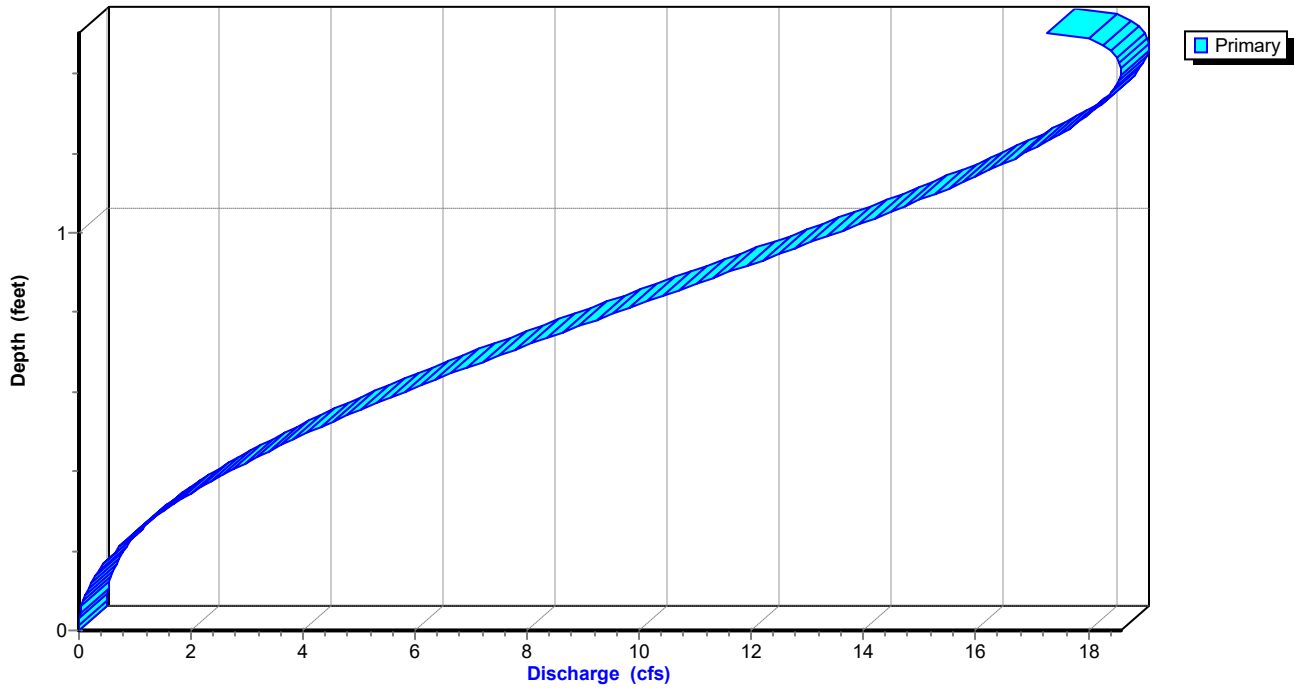
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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Reach P-A1: Pipe A1**

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr*

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**Stage-Area-Storage for Reach P-A1: Pipe A1**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
408.33	0.0	0	409.37	1.3	67
408.35	0.0	0	409.39	1.3	68
408.37	0.0	1	409.41	1.4	69
408.39	0.0	1	409.43	1.4	71
408.41	0.0	2	409.45	1.4	72
408.43	0.1	3	409.47	1.4	73
408.45	0.1	3	409.49	1.5	75
408.47	0.1	4	409.51	1.5	76
408.49	0.1	5	409.53	1.5	77
408.51	0.1	6	409.55	1.5	78
408.53	0.1	7	409.57	1.6	80
408.55	0.2	8	409.59	1.6	81
408.57	0.2	9	409.61	1.6	82
408.59	0.2	10	409.63	1.6	83
408.61	0.2	12	409.65	1.6	84
408.63	0.3	13	409.67	1.7	85
408.65	0.3	14	409.69	1.7	86
408.67	0.3	15	409.71	1.7	87
408.69	0.3	17	409.73	1.7	88
408.71	0.4	18	409.75	1.7	88
408.73	0.4	19	409.77	1.7	89
408.75	0.4	21	409.79	1.8	89
408.77	0.4	22	409.81	1.8	90
408.79	0.5	23	409.83	<b>1.8</b>	<b>90</b>
408.81	0.5	25			
408.83	0.5	26			
408.85	0.5	28			
408.87	0.6	29			
408.89	0.6	31			
408.91	0.6	32			
408.93	0.7	34			
408.95	0.7	35			
408.97	0.7	37			
408.99	0.7	38			
409.01	0.8	40			
409.03	0.8	41			
409.05	0.8	43			
409.07	0.9	44			
409.09	0.9	46			
409.11	0.9	47			
409.13	1.0	49			
409.15	1.0	50			
409.17	1.0	52			
409.19	1.0	53			
409.21	1.1	55			
409.23	1.1	56			
409.25	1.1	58			
409.27	1.2	59			
409.29	1.2	61			
409.31	1.2	62			
409.33	1.3	64			
409.35	1.3	65			

# Summerwood Gym 3

AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Prepared by Phillip Lewis Engineering

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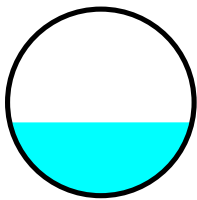
## Summary for Reach P-A2: Pipe A2

Inflow Area = 39,705 sf, 75.04% Impervious, Inflow Depth = 0.71" for 5-yr event  
Inflow = 3.92 cfs @ 0.11 hrs, Volume= 2,346 cf  
Outflow = 3.92 cfs @ 0.15 hrs, Volume= 2,346 cf, Atten= 0%, Lag= 2.4 min  
Routed to Reach P-A3 : Pipe A3

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.05 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 2.43 fps, Avg. Travel Time= 1.2 min

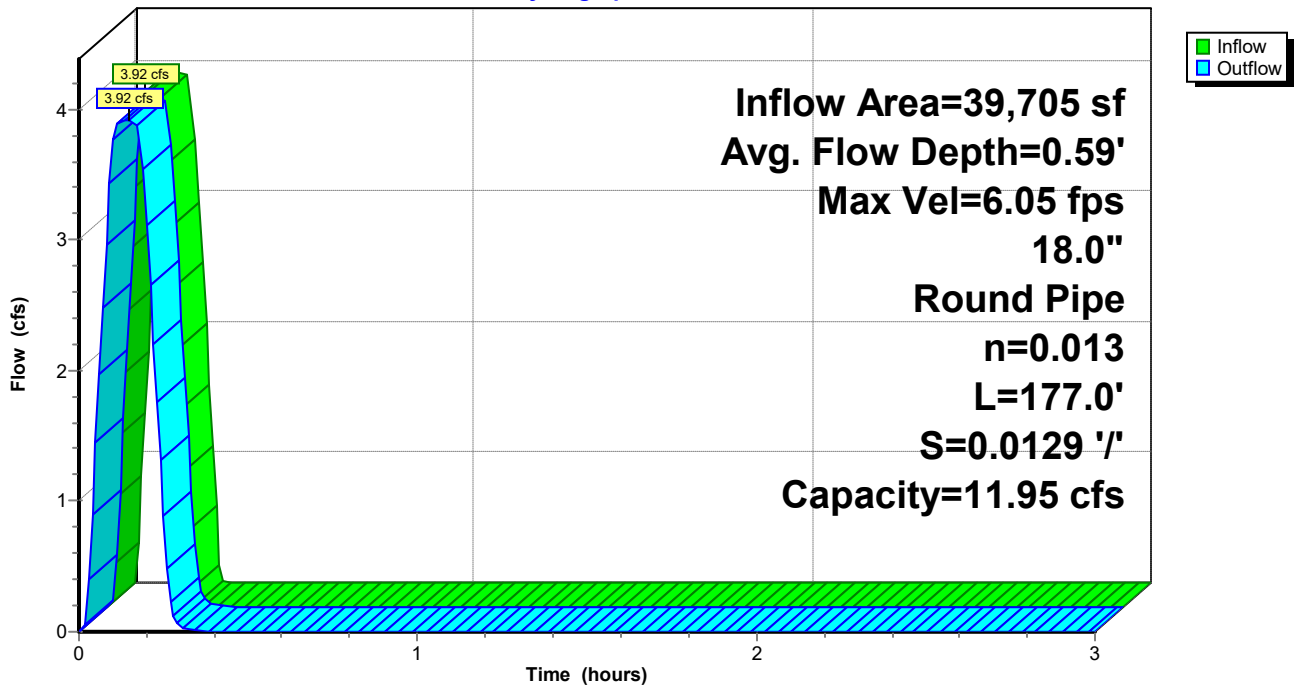
Peak Storage= 114 cf @ 0.14 hrs  
Average Depth at Peak Storage= 0.59' , Surface Width= 1.47'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.95 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 177.0' Slope= 0.0129 '/'  
Inlet Invert= 406.85', Outlet Invert= 404.56'



## Reach P-A2: Pipe A2

Hydrograph





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

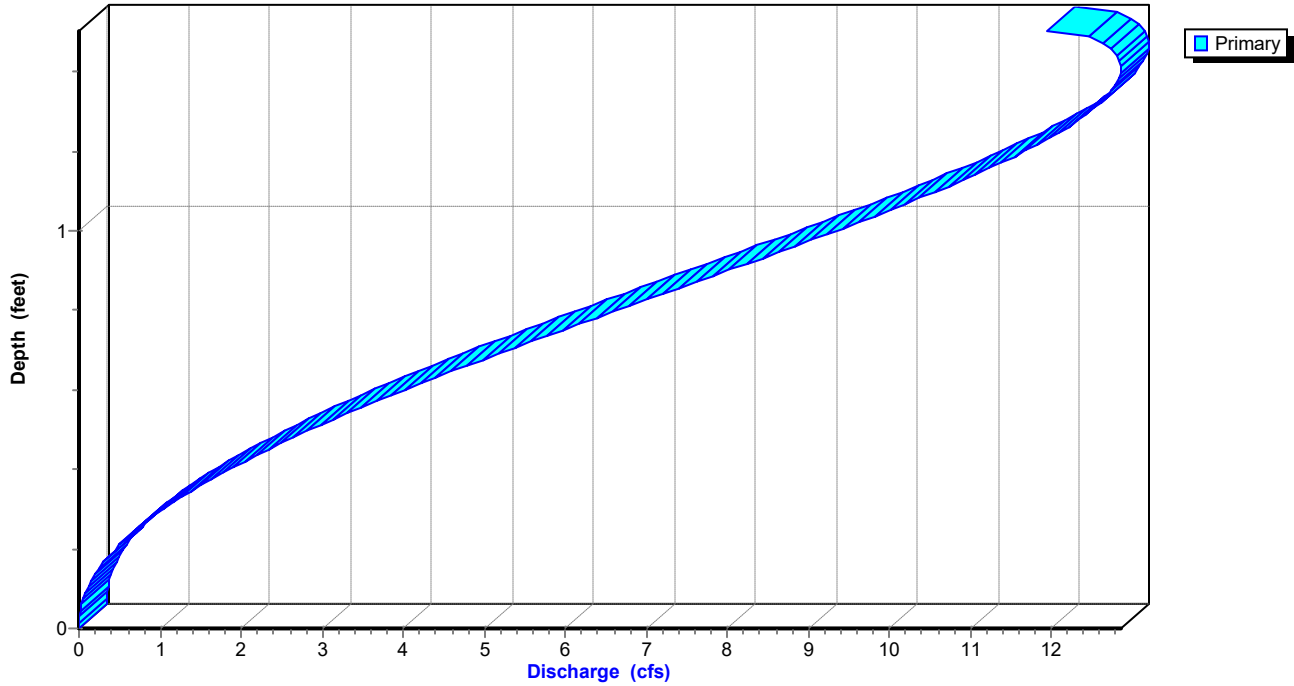
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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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**Reach P-A2: Pipe A2**

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr*

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**Stage-Area-Storage for Reach P-A2: Pipe A2**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
406.85	0.0	0	407.89	1.3	231
406.87	0.0	1	407.91	1.3	236
406.89	0.0	2	407.93	1.4	241
406.91	0.0	4	407.95	1.4	246
406.93	0.0	6	407.97	1.4	250
406.95	0.1	9	407.99	1.4	255
406.97	0.1	12	408.01	1.5	260
406.99	0.1	15	408.03	1.5	264
407.01	0.1	18	408.05	1.5	268
407.03	0.1	21	408.07	1.5	272
407.05	0.1	25	408.09	1.6	277
407.07	0.2	28	408.11	1.6	280
407.09	0.2	32	408.13	1.6	284
407.11	0.2	36	408.15	1.6	288
407.13	0.2	40	408.17	1.6	292
407.15	0.3	45	408.19	1.7	295
407.17	0.3	49	408.21	1.7	298
407.19	0.3	53	408.23	1.7	301
407.21	0.3	58	408.25	1.7	304
407.23	0.4	62	408.27	1.7	306
407.25	0.4	67	408.29	1.7	309
407.27	0.4	72	408.31	1.8	310
407.29	0.4	76	408.33	1.8	312
407.31	0.5	81	408.35	<b>1.8</b>	<b>313</b>
407.33	0.5	86			
407.35	0.5	91			
407.37	0.5	96			
407.39	0.6	101			
407.41	0.6	106			
407.43	0.6	112			
407.45	0.7	117			
407.47	0.7	122			
407.49	0.7	127			
407.51	0.7	133			
407.53	0.8	138			
407.55	0.8	143			
407.57	0.8	148			
407.59	0.9	154			
407.61	0.9	159			
407.63	0.9	164			
407.65	1.0	170			
407.67	1.0	175			
407.69	1.0	180			
407.71	1.0	185			
407.73	1.1	191			
407.75	1.1	196			
407.77	1.1	201			
407.79	1.2	206			
407.81	1.2	211			
407.83	1.2	216			
407.85	1.3	222			
407.87	1.3	226			

### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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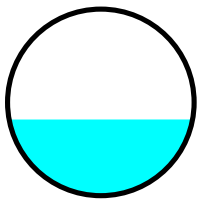
### Summary for Reach P-A3: Pipe A3

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.63" for 5-yr event  
Inflow = 6.22 cfs @ 0.17 hrs, Volume= 3,751 cf  
Outflow = 6.17 cfs @ 0.17 hrs, Volume= 3,751 cf, Atten= 1%, Lag= 0.3 min  
Routed to Reach P-A4 : Pipe A4

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.11 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 3.79 fps, Avg. Travel Time= 0.5 min

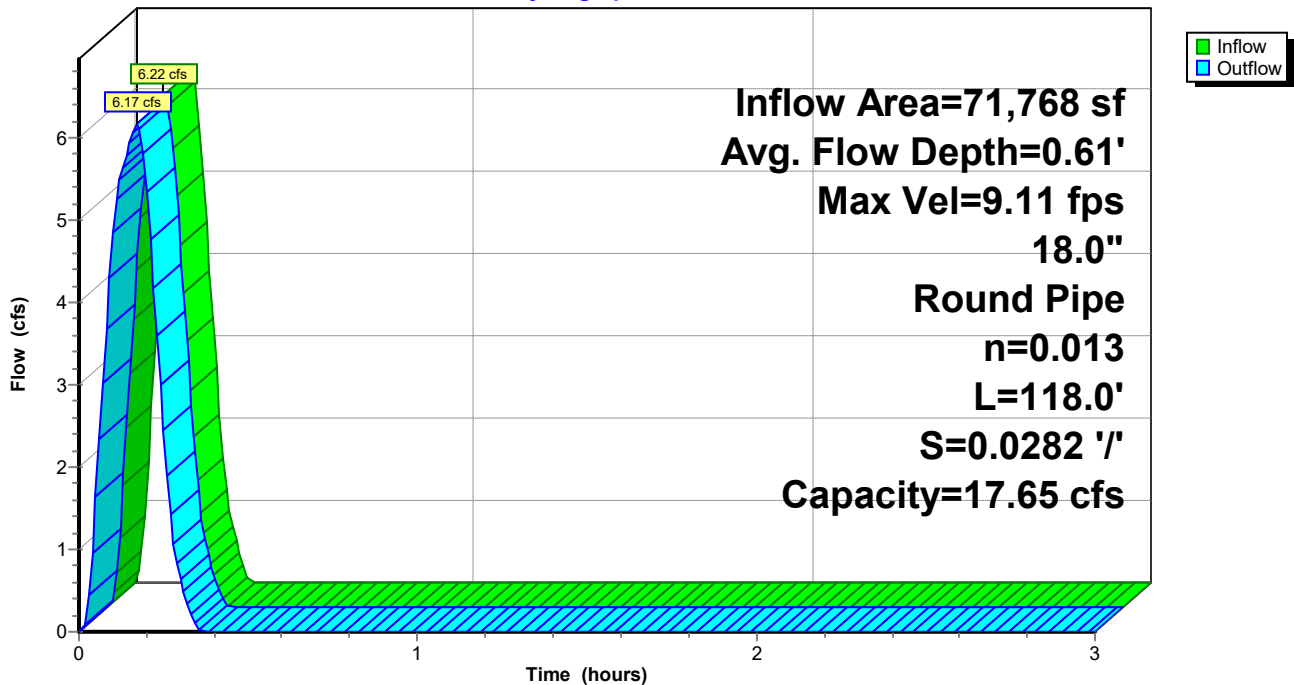
Peak Storage= 80 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.61' , Surface Width= 1.48'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.65 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 118.0' Slope= 0.0282 '/'  
Inlet Invert= 404.46', Outlet Invert= 401.13'



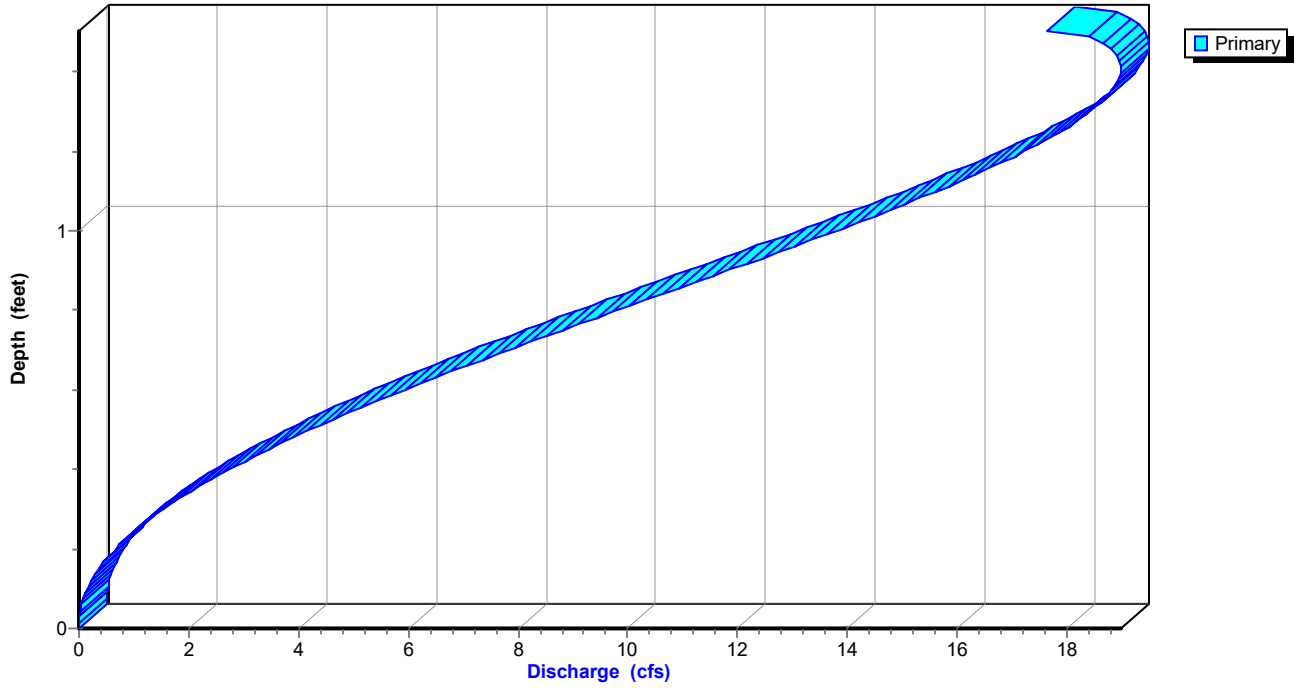
### Reach P-A3: Pipe A3

Hydrograph



### Reach P-A3: Pipe A3

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A3: Pipe A3**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
404.46	0.0	0	405.50	1.3	154
404.48	0.0	1	405.52	1.3	158
404.50	0.0	2	405.54	1.4	161
404.52	0.0	3	405.56	1.4	164
404.54	0.0	4	405.58	1.4	167
404.56	0.1	6	405.60	1.4	170
404.58	0.1	8	405.62	1.5	173
404.60	0.1	10	405.64	1.5	176
404.62	0.1	12	405.66	1.5	179
404.64	0.1	14	405.68	1.5	182
404.66	0.1	17	405.70	1.6	184
404.68	0.2	19	405.72	1.6	187
404.70	0.2	22	405.74	1.6	190
404.72	0.2	24	405.76	1.6	192
404.74	0.2	27	405.78	1.6	194
404.76	0.3	30	405.80	1.7	197
404.78	0.3	33	405.82	1.7	199
404.80	0.3	35	405.84	1.7	201
404.82	0.3	38	405.86	1.7	203
404.84	0.4	42	405.88	1.7	204
404.86	0.4	45	405.90	1.7	206
404.88	0.4	48	405.92	1.8	207
404.90	0.4	51	405.94	1.8	208
404.92	0.5	54	405.96	<b>1.8</b>	<b>209</b>
404.94	0.5	58			
404.96	0.5	61			
404.98	0.5	64			
405.00	0.6	68			
405.02	0.6	71			
405.04	0.6	74			
405.06	0.7	78			
405.08	0.7	81			
405.10	0.7	85			
405.12	0.7	88			
405.14	0.8	92			
405.16	0.8	95			
405.18	0.8	99			
405.20	0.9	102			
405.22	0.9	106			
405.24	0.9	110			
405.26	1.0	113			
405.28	1.0	117			
405.30	1.0	120			
405.32	1.0	124			
405.34	1.1	127			
405.36	1.1	131			
405.38	1.1	134			
405.40	1.2	138			
405.42	1.2	141			
405.44	1.2	144			
405.46	1.3	148			
405.48	1.3	151			

### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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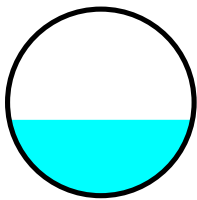
### Summary for Reach P-A4: Pipe A4

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.63" for 5-yr event  
Inflow = 6.17 cfs @ 0.17 hrs, Volume= 3,751 cf  
Outflow = 6.15 cfs @ 0.18 hrs, Volume= 3,751 cf, Atten= 0%, Lag= 0.4 min  
Routed to Pond DP1 : Re-Established East Pond

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.09 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 3.60 fps, Avg. Travel Time= 0.6 min

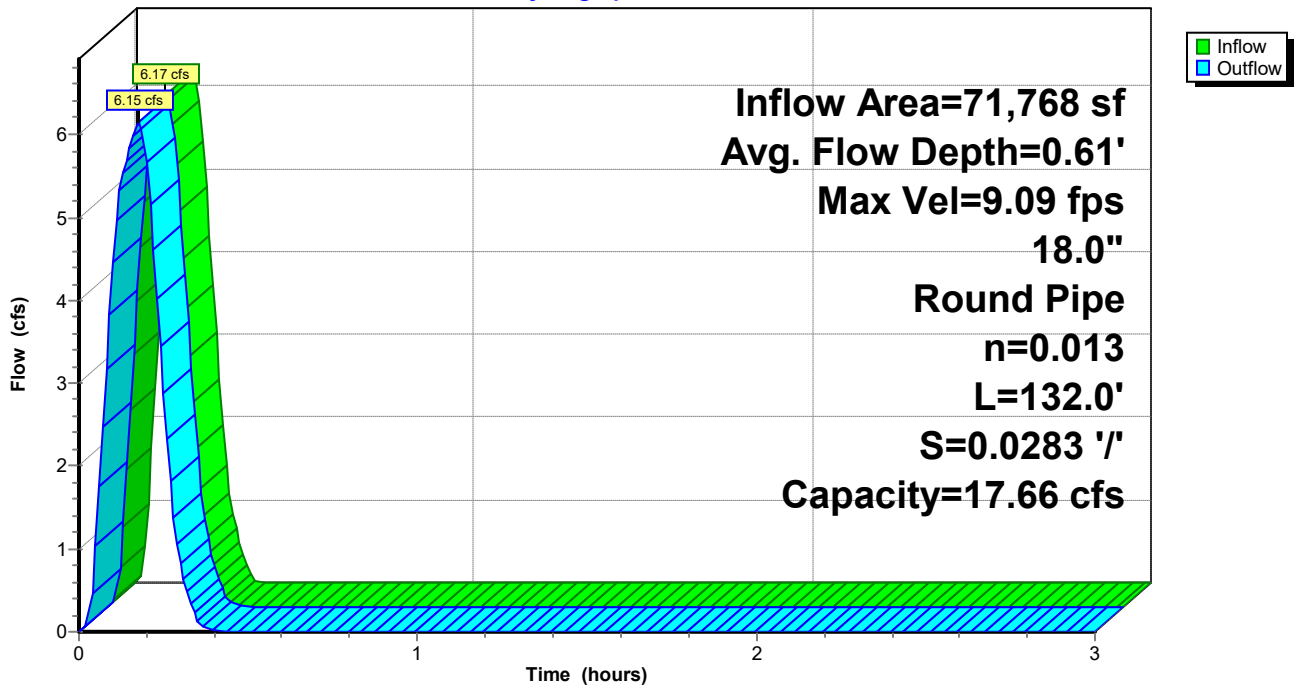
Peak Storage= 89 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.61' , Surface Width= 1.47'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.66 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 132.0' Slope= 0.0283 '/'  
Inlet Invert= 401.03', Outlet Invert= 397.30'



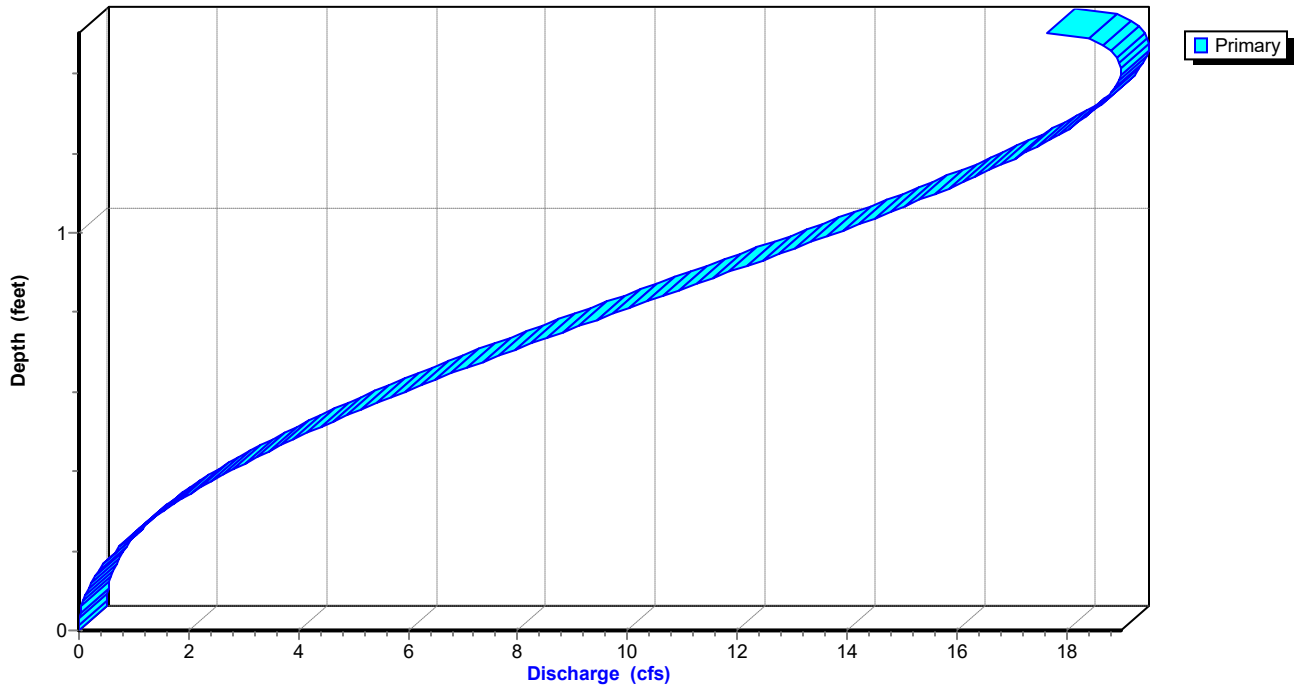
### Reach P-A4: Pipe A4

Hydrograph



### Reach P-A4: Pipe A4

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr*

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**Stage-Area-Storage for Reach P-A4: Pipe A4**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
401.03	0.0	0	402.07	1.3	173
401.05	0.0	1	402.09	1.3	176
401.07	0.0	2	402.11	1.4	180
401.09	0.0	3	402.13	1.4	183
401.11	0.0	5	402.15	1.4	187
401.13	0.1	7	402.17	1.4	190
401.15	0.1	9	402.19	1.5	194
401.17	0.1	11	402.21	1.5	197
401.19	0.1	13	402.23	1.5	200
401.21	0.1	16	402.25	1.5	203
401.23	0.1	18	402.27	1.6	206
401.25	0.2	21	402.29	1.6	209
401.27	0.2	24	402.31	1.6	212
401.29	0.2	27	402.33	1.6	215
401.31	0.2	30	402.35	1.6	217
401.33	0.3	33	402.37	1.7	220
401.35	0.3	36	402.39	1.7	222
401.37	0.3	40	402.41	1.7	225
401.39	0.3	43	402.43	1.7	227
401.41	0.4	46	402.45	1.7	228
401.43	0.4	50	402.47	1.7	230
401.45	0.4	53	402.49	1.8	232
401.47	0.4	57	402.51	1.8	233
401.49	0.5	61	402.53	<b>1.8</b>	<b>233</b>
401.51	0.5	64			
401.53	0.5	68			
401.55	0.5	72			
401.57	0.6	76			
401.59	0.6	79			
401.61	0.6	83			
401.63	0.7	87			
401.65	0.7	91			
401.67	0.7	95			
401.69	0.7	99			
401.71	0.8	103			
401.73	0.8	107			
401.75	0.8	111			
401.77	0.9	115			
401.79	0.9	119			
401.81	0.9	123			
401.83	1.0	127			
401.85	1.0	130			
401.87	1.0	134			
401.89	1.0	138			
401.91	1.1	142			
401.93	1.1	146			
401.95	1.1	150			
401.97	1.2	154			
401.99	1.2	158			
402.01	1.2	161			
402.03	1.3	165			
402.05	1.3	169			



### Summerwood Gym 3

AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

Prepared by Phillip Lewis Engineering

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### Summary for Pond DP1: Re-Established East Pond

Inflow Area = 132,514 sf, 61.41% Impervious, Inflow Depth = 0.64" for 5-yr event  
Inflow = 11.49 cfs @ 0.16 hrs, Volume= 7,053 cf  
Outflow = 6.40 cfs @ 0.22 hrs, Volume= 7,053 cf, Atten= 44%, Lag= 3.6 min  
Primary = 6.40 cfs @ 0.22 hrs, Volume= 7,053 cf  
Routed to Link Post-Dev : APPROX DISCHARGE

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 397.93' @ 0.22 hrs Storage= 3,558 cf

Plug-Flow detention time= 8.2 min calculated for 7,053 cf (100% of inflow)  
Center-of-Mass det. time= 8.1 min ( 17.0 - 8.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	396.00'	8,557 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
396.00	0	0
396.50	250	250
397.00	1,092	1,342
398.00	2,387	3,729
399.00	2,405	6,134
400.00	2,423	8,557

Device	Routing	Invert	Outlet Devices
#1	Primary	399.00'	<b>5.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#2	Primary	396.00'	<b>1.1' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s) 10.0' Crest Height

**Primary OutFlow** Max=6.40 cfs @ 0.22 hrs HW=397.93' (Free Discharge)

1=Sharp-Crested Rectangular Weir ( Controls 0.00 cfs)

2=Sharp-Crested Rectangular Weir (Weir Controls 6.40 cfs @ 4.65 fps)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

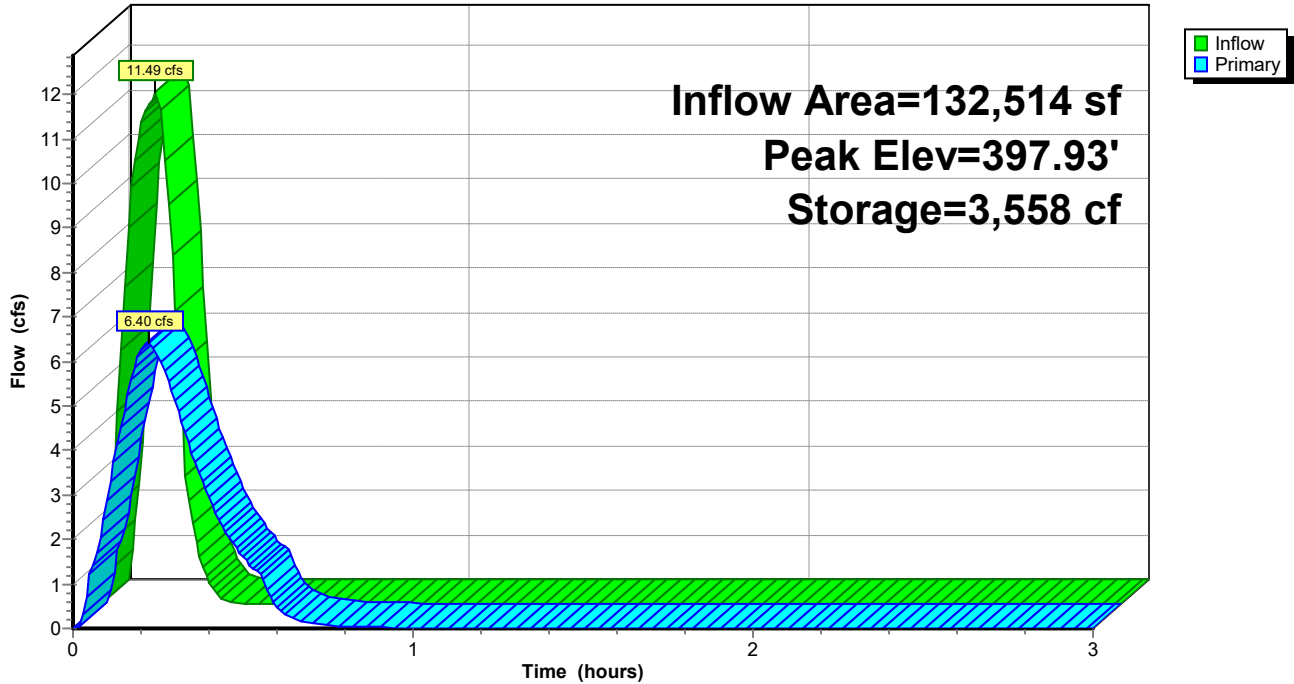
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AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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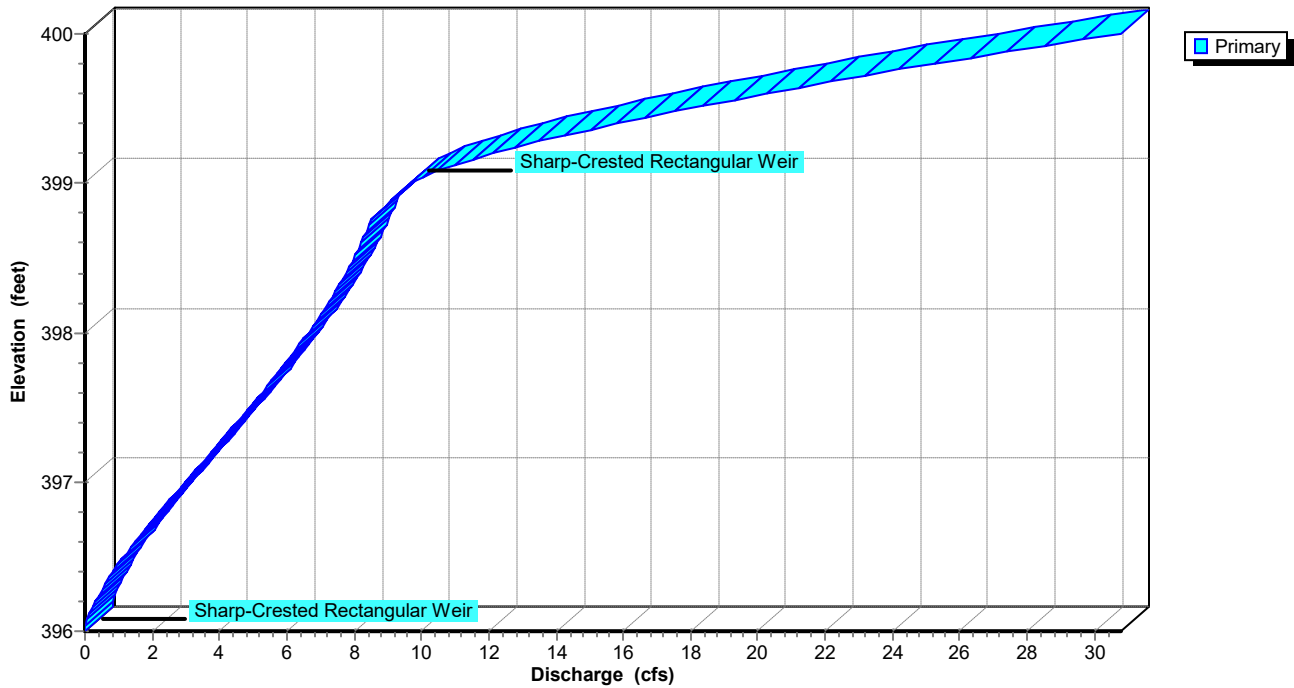
## Pond DP1: Re-Established East Pond

Hydrograph



## Pond DP1: Re-Established East Pond

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Pond DP1: Re-Established East Pond**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
396.00	0	398.60	5,172
396.05	25	398.65	5,292
396.10	50	398.70	5,412
396.15	75	398.75	5,533
396.20	100	398.80	5,653
396.25	125	398.85	5,773
396.30	150	398.90	5,893
396.35	175	398.95	6,014
396.40	200	399.00	6,134
396.45	225	399.05	6,255
396.50	250	399.10	6,376
396.55	359	399.15	6,497
396.60	468	399.20	6,619
396.65	578	399.25	6,740
396.70	687	399.30	6,861
396.75	796	399.35	6,982
396.80	905	399.40	7,103
396.85	1,014	399.45	7,224
396.90	1,124	399.50	7,346
396.95	1,233	399.55	7,467
397.00	1,342	399.60	7,588
397.05	1,461	399.65	7,709
397.10	1,581	399.70	7,830
397.15	1,700	399.75	7,951
397.20	1,819	399.80	8,072
397.25	1,939	399.85	8,194
397.30	2,058	399.90	8,315
397.35	2,177	399.95	8,436
397.40	2,297	400.00	<b>8,557</b>
397.45	2,416		
397.50	2,536		
397.55	2,655		
397.60	2,774		
397.65	2,894		
397.70	3,013		
397.75	3,132		
397.80	3,252		
397.85	3,371		
397.90	3,490		
397.95	3,610		
398.00	3,729		
398.05	3,849		
398.10	3,970		
398.15	4,090		
398.20	4,210		
398.25	4,330		
398.30	4,451		
398.35	4,571		
398.40	4,691		
398.45	4,811		
398.50	4,932		
398.55	5,052		

# Summerwood Gym 3

AR - Little Rock 5-yr Duration=10 min, Inten=5.17 in/hr

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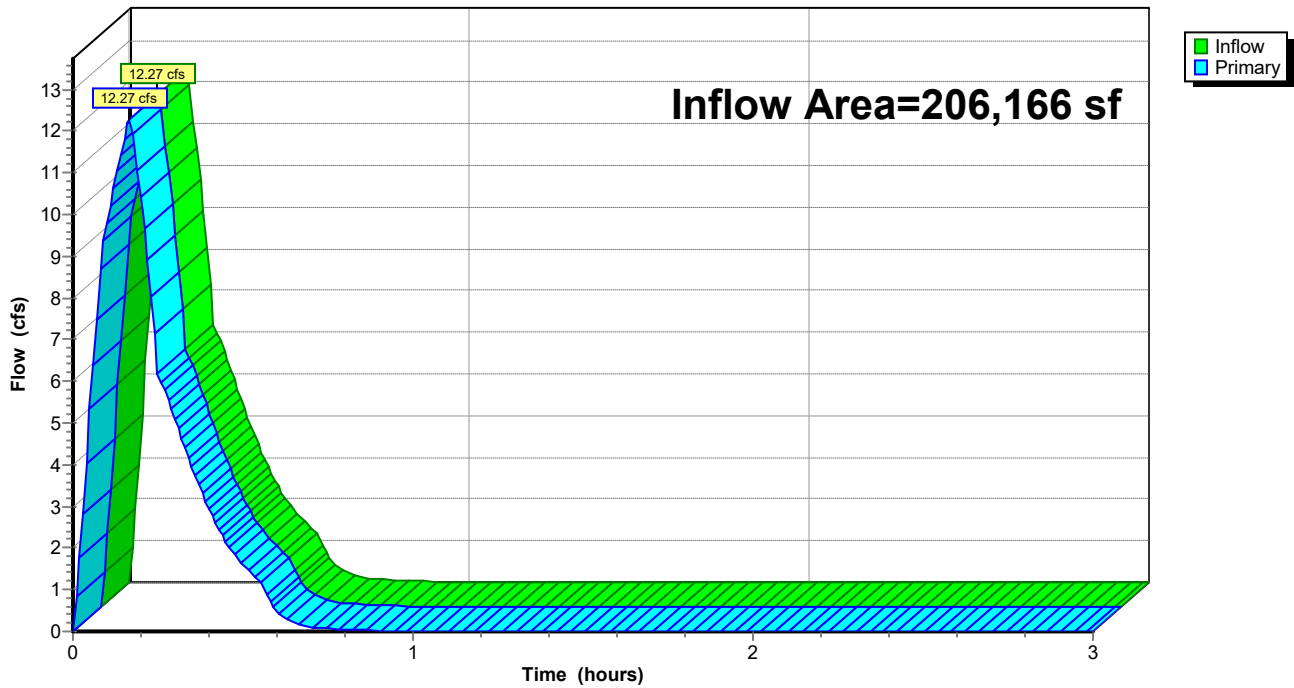
## Summary for Link Post-Dev: APPROX DISCHARGE

Inflow Area = 206,166 sf, 64.42% Impervious, Inflow Depth = 0.65" for 5-yr event  
Inflow = 12.27 cfs @ 0.17 hrs, Volume= 11,197 cf  
Primary = 12.27 cfs @ 0.17 hrs, Volume= 11,197 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post-Dev: APPROX DISCHARGE

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Printed 1/11/2024

**Summary for Subcatchment D1: Drainage Basin D1**

Runoff = 5.97 cfs @ 0.09 hrs, Volume= 3,577 cf, Depth= 0.88"  
 Routed to Link Post-Dev : APPROX DISCHARGE

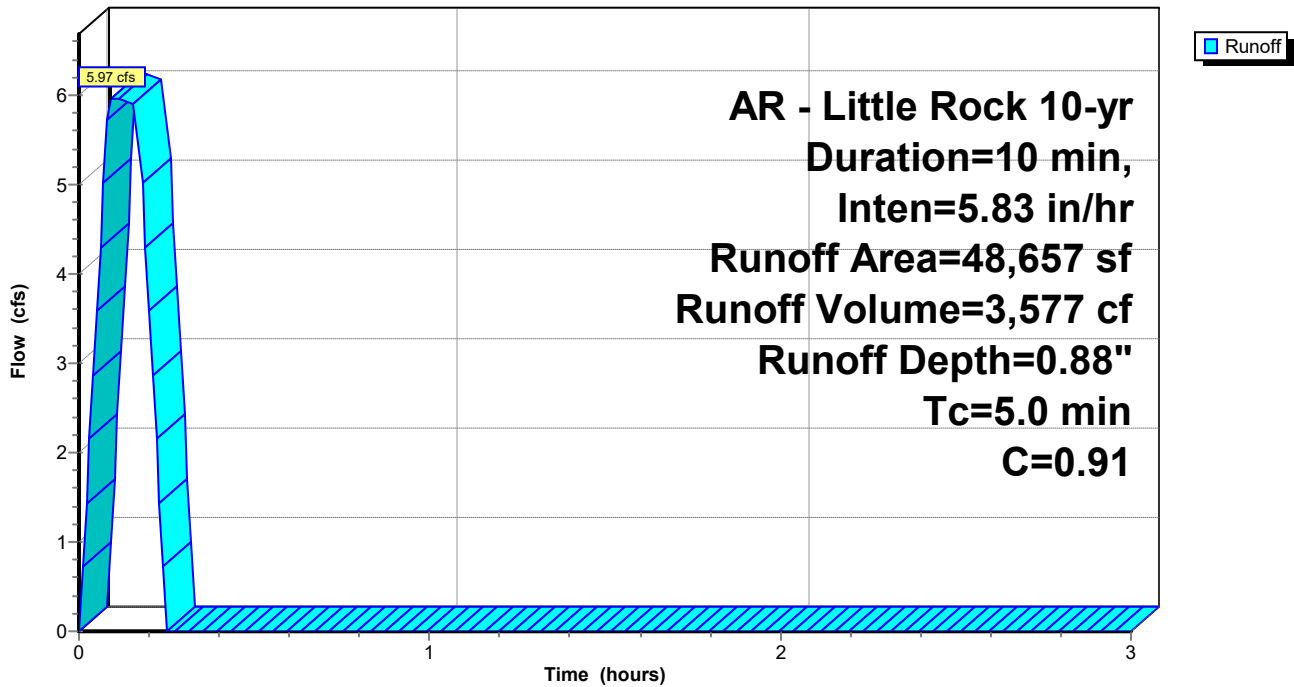
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
3,421	0.40	Sod Yard
45,236	0.95	Road, Drives, Sidewalks
48,657	0.91	Weighted Average
3,421		7.03% Pervious Area
45,236		92.97% Impervious Area

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

**Subcatchment D1: Drainage Basin D1**

Hydrograph



**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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**Summary for Subcatchment D2: Drainage Basin D2**

Runoff = 2.53 cfs @ 0.09 hrs, Volume= 1,519 cf, Depth= 0.75"

Routed to Reach P-A1 : Pipe A1

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

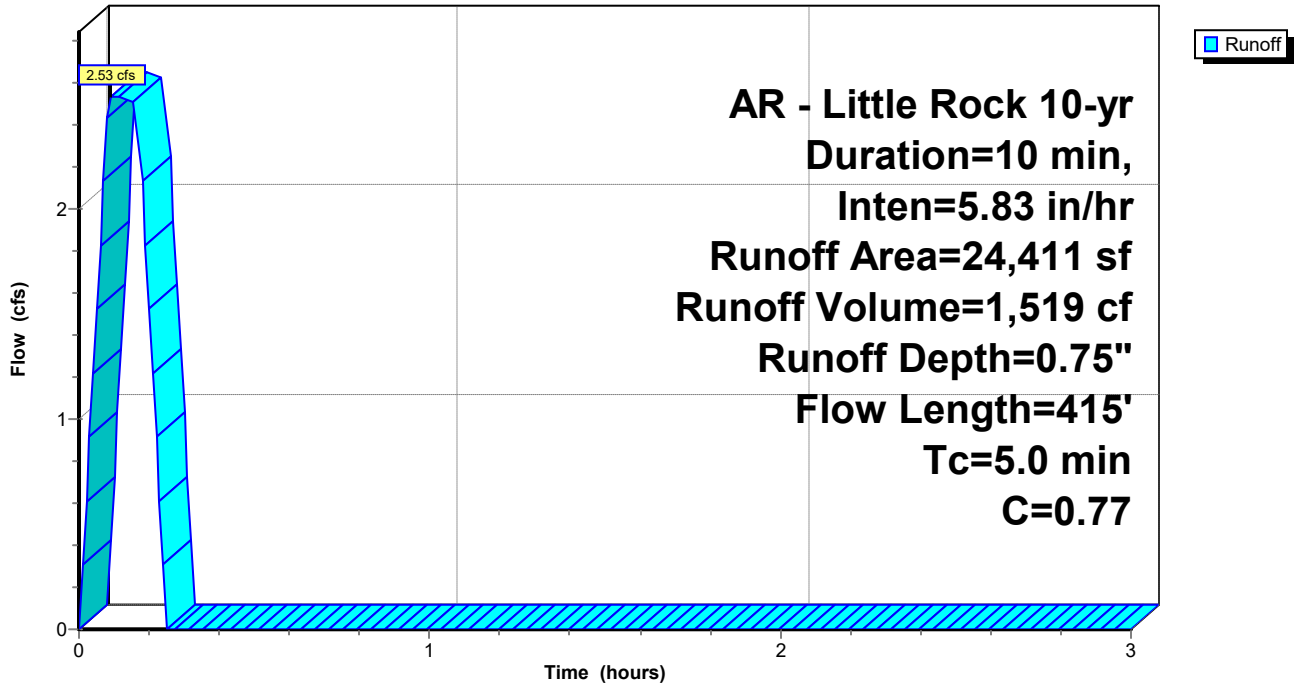
AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
8,845	0.45	Rip Rap Embankment
15,566	0.95	Roof, Drives, Sidewalks
24,411	0.77	Weighted Average
8,845		36.23% Pervious Area
15,566		63.77% Impervious 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 D2: Drainage Basin D2**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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**Summary for Subcatchment D3: Drainage Basin D3**

Runoff = 1.88 cfs @ 0.09 hrs, Volume= 1,124 cf, Depth= 0.88"

Routed to Reach P-A2 : Pipe A2

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

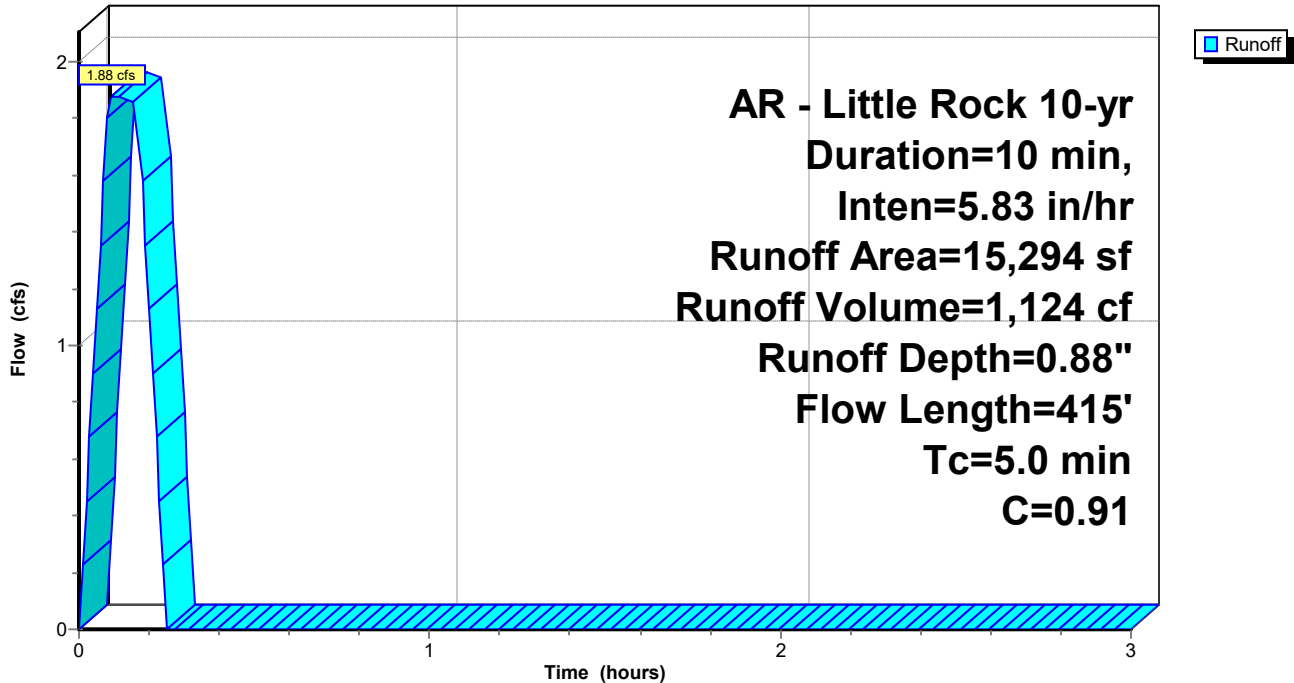
AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
1,065	0.40	Sod Yard
14,229	0.95	Paving, Sidewalks
15,294	0.91	Weighted Average
1,065		6.96% Pervious Area
14,229		93.04% Impervious 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 D3: Drainage Basin D3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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**Summary for Subcatchment D4: Drainage Basin D4**

Runoff = 2.59 cfs @ 0.17 hrs, Volume= 1,582 cf, Depth= 0.59"

Routed to Reach P-A3 : Pipe A3

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

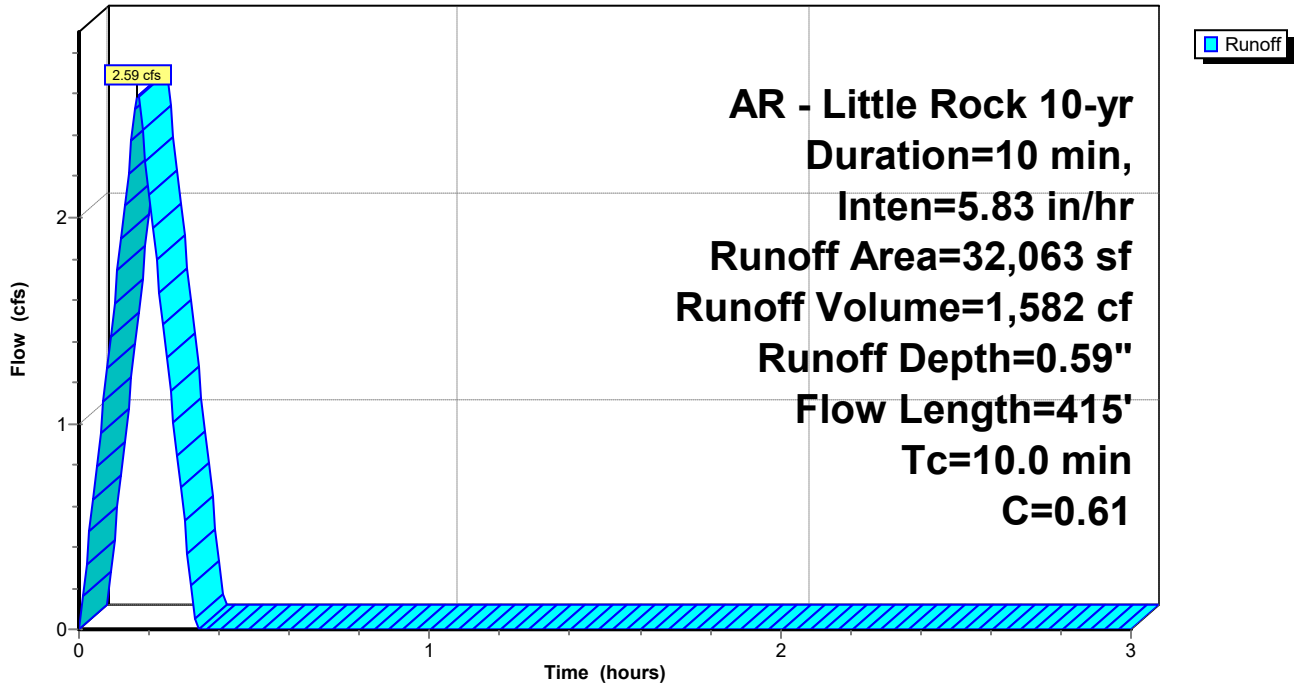
AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
20,032	0.40	
12,031	0.95	
32,063	0.61	Weighted Average
20,032		62.48% Pervious Area
12,031		37.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment D4: Drainage Basin D4**

Hydrograph





**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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**Summary for Subcatchment D5: Drainage Basin D5**

Runoff = 3.76 cfs @ 0.09 hrs, Volume= 2,254 cf, Depth= 0.65"  
 Routed to Pond DP1 : Re-Established East Pond

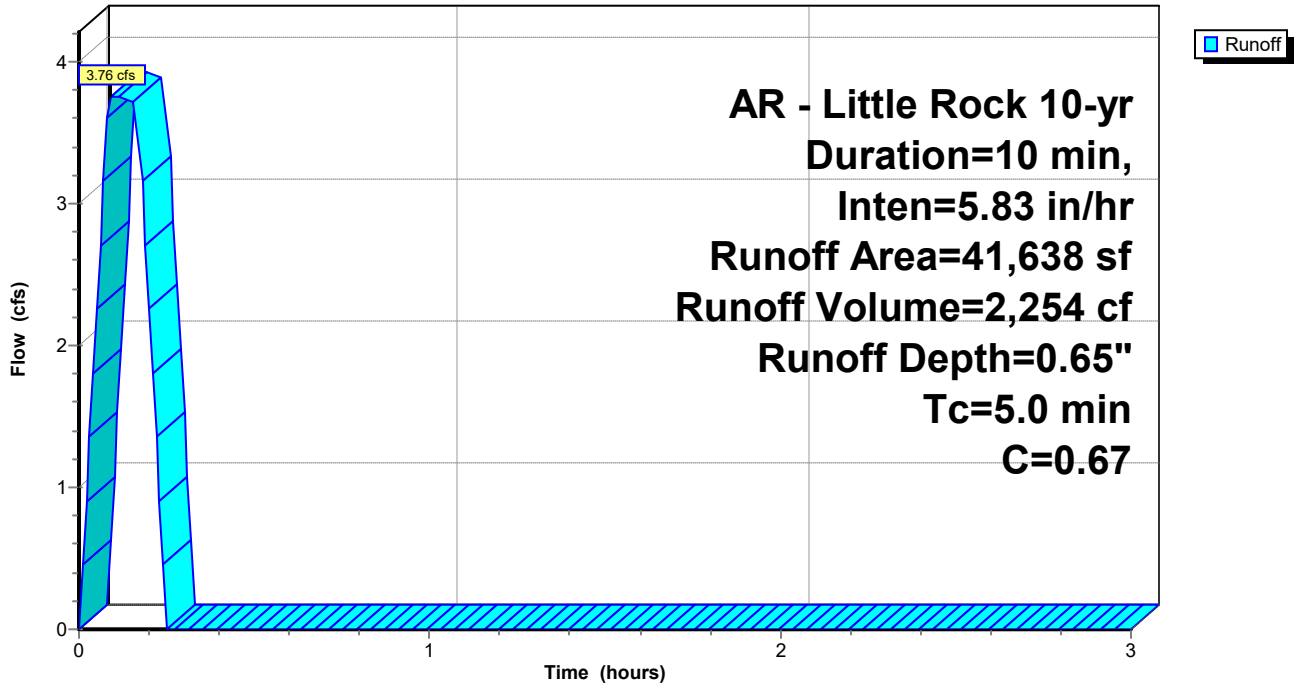
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
21,201	0.40	Sod Yard, Natural Vegetation
20,437	0.95	Paving, Sidewalks
41,638	0.67	Weighted Average
21,201		50.92% Pervious Area
20,437		49.08% Impervious Area

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

**Subcatchment D5: Drainage Basin D5**

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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### Summary for Subcatchment D6: Drainage Basin D6

Runoff = 2.45 cfs @ 0.09 hrs, Volume= 1,466 cf, Depth= 0.92"  
Routed to Pond DP1 : Re-Established East Pond

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

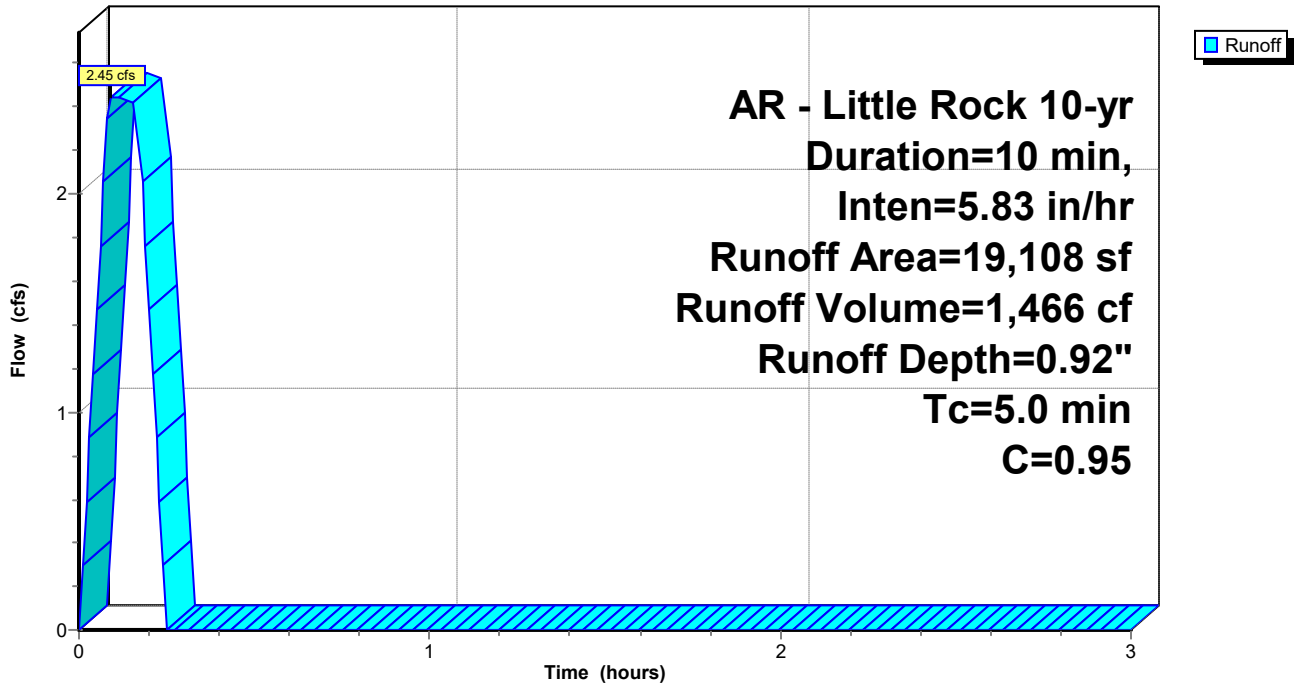
Area (sf)	C	Description
19,108	0.95	Roof
19,108		100.00% Impervious Area

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

### Subcatchment D6: Drainage Basin D6

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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**Summary for Subcatchment D7: Drainage Basin D7**

Runoff = 1.82 cfs @ 0.09 hrs, Volume= 1,090 cf, Depth= 0.52"  
 Routed to Link Post-Dev : APPROX DISCHARGE

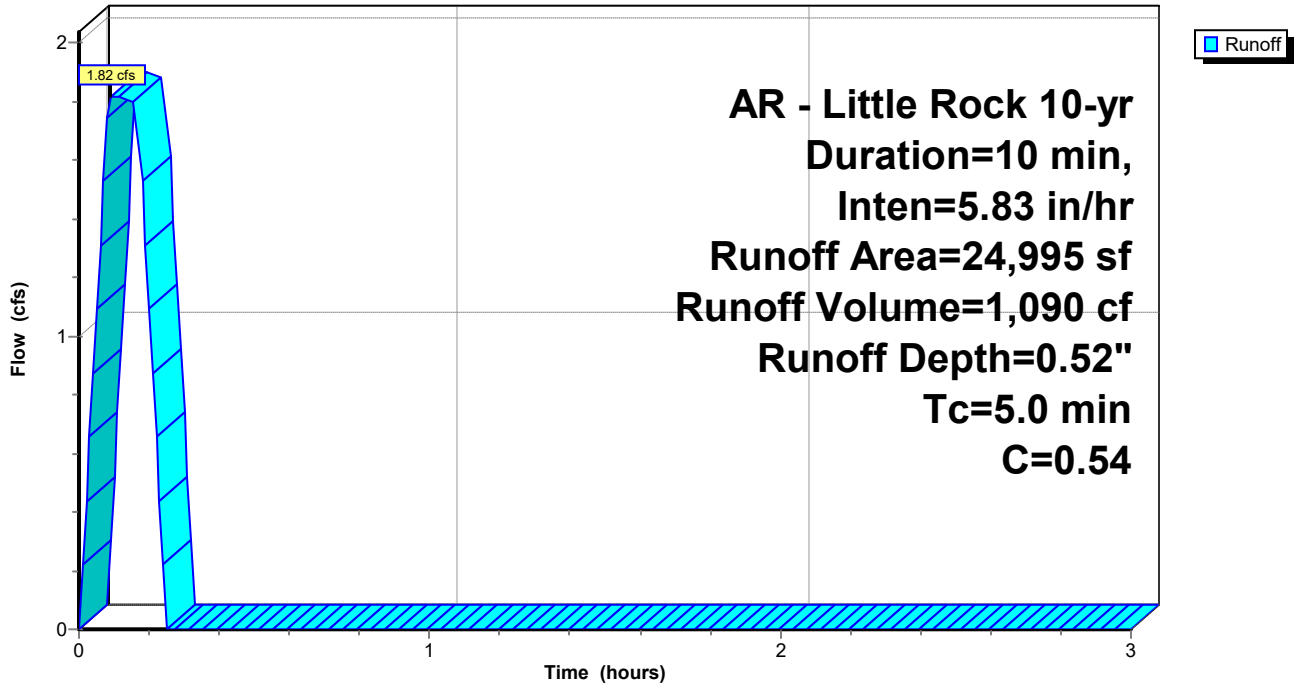
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

Area (sf)	C	Description
18,798	0.40	Sod Yard, Natural Vegetation
6,197	0.95	Paving, Sidewalks
24,995	0.54	Weighted Average
18,798		75.21% Pervious Area
6,197		24.79% Impervious Area

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

**Subcatchment D7: Drainage Basin D7**

Hydrograph



# Summerwood Gym 3

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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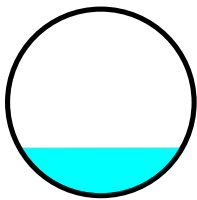
## Summary for Reach P-A1: Pipe A1

Inflow Area = 24,411 sf, 63.77% Impervious, Inflow Depth = 0.75" for 10-yr event  
Inflow = 2.53 cfs @ 0.09 hrs, Volume= 1,519 cf  
Outflow = 2.54 cfs @ 0.11 hrs, Volume= 1,519 cf, Atten= 0%, Lag= 1.2 min  
Routed to Reach P-A2 : Pipe A2

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.99 fps, Min. Travel Time= 0.1 min  
Avg. Velocity= 5.09 fps, Avg. Travel Time= 0.2 min

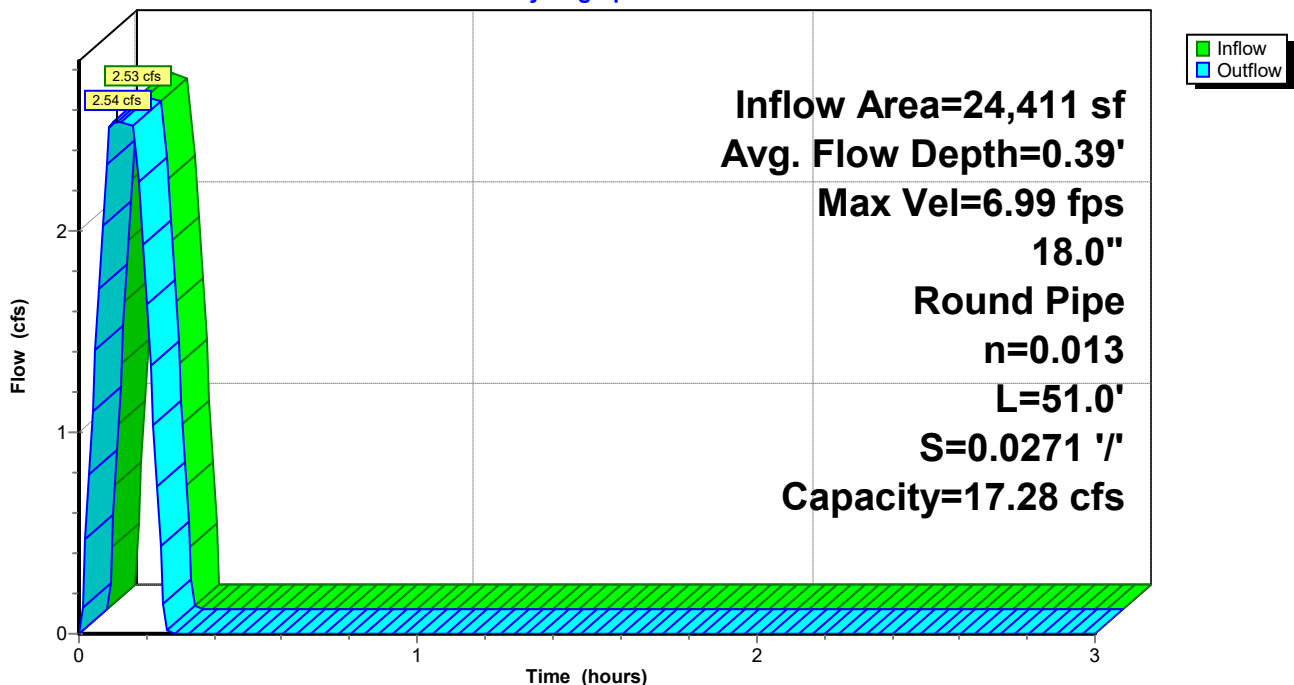
Peak Storage= 19 cf @ 0.09 hrs  
Average Depth at Peak Storage= 0.39' , Surface Width= 1.31'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.28 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 51.0' Slope= 0.0271 '/'  
Inlet Invert= 408.33', Outlet Invert= 406.95'



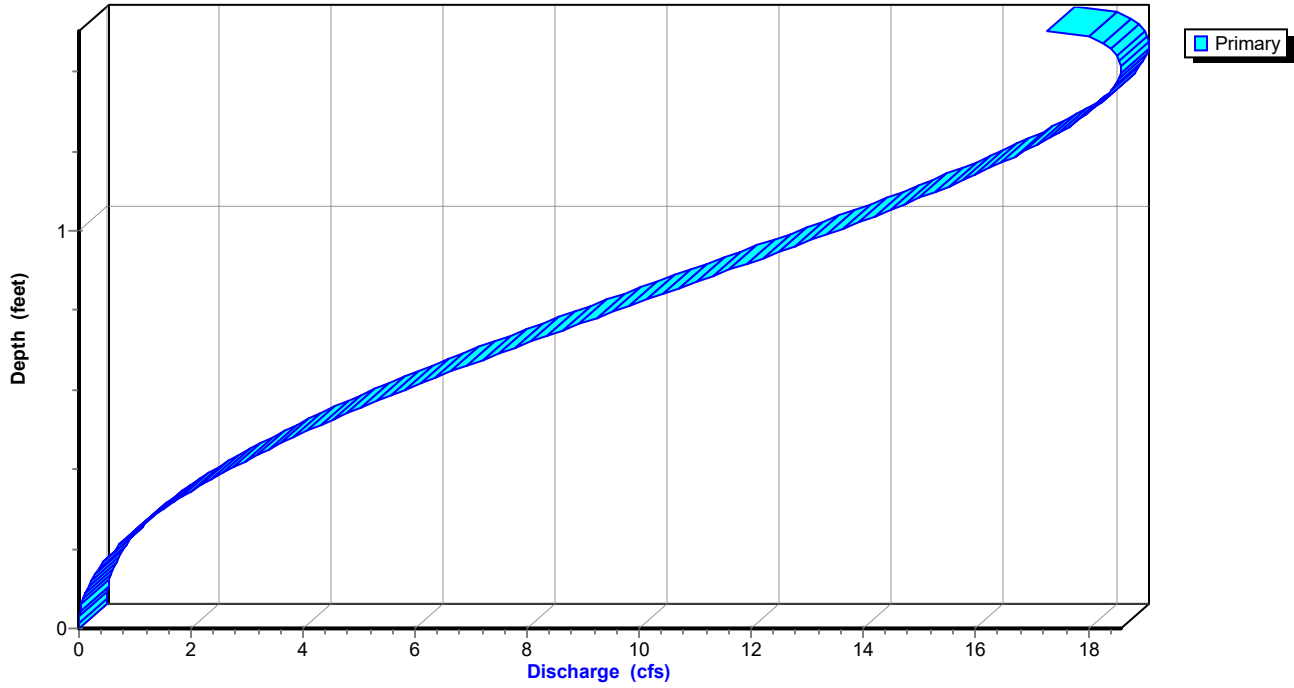
## Reach P-A1: Pipe A1

Hydrograph



### Reach P-A1: Pipe A1

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr*

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**Stage-Area-Storage for Reach P-A1: Pipe A1**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
408.33	0.0	0	409.37	1.3	67
408.35	0.0	0	409.39	1.3	68
408.37	0.0	1	409.41	1.4	69
408.39	0.0	1	409.43	1.4	71
408.41	0.0	2	409.45	1.4	72
408.43	0.1	3	409.47	1.4	73
408.45	0.1	3	409.49	1.5	75
408.47	0.1	4	409.51	1.5	76
408.49	0.1	5	409.53	1.5	77
408.51	0.1	6	409.55	1.5	78
408.53	0.1	7	409.57	1.6	80
408.55	0.2	8	409.59	1.6	81
408.57	0.2	9	409.61	1.6	82
408.59	0.2	10	409.63	1.6	83
408.61	0.2	12	409.65	1.6	84
408.63	0.3	13	409.67	1.7	85
408.65	0.3	14	409.69	1.7	86
408.67	0.3	15	409.71	1.7	87
408.69	0.3	17	409.73	1.7	88
408.71	0.4	18	409.75	1.7	88
408.73	0.4	19	409.77	1.7	89
408.75	0.4	21	409.79	1.8	89
408.77	0.4	22	409.81	1.8	90
408.79	0.5	23	409.83	<b>1.8</b>	<b>90</b>
408.81	0.5	25			
408.83	0.5	26			
408.85	0.5	28			
408.87	0.6	29			
408.89	0.6	31			
408.91	0.6	32			
408.93	0.7	34			
408.95	0.7	35			
408.97	0.7	37			
408.99	0.7	38			
409.01	0.8	40			
409.03	0.8	41			
409.05	0.8	43			
409.07	0.9	44			
409.09	0.9	46			
409.11	0.9	47			
409.13	1.0	49			
409.15	1.0	50			
409.17	1.0	52			
409.19	1.0	53			
409.21	1.1	55			
409.23	1.1	56			
409.25	1.1	58			
409.27	1.2	59			
409.29	1.2	61			
409.31	1.2	62			
409.33	1.3	64			
409.35	1.3	65			

### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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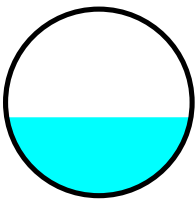
### Summary for Reach P-A2: Pipe A2

Inflow Area = 39,705 sf, 75.04% Impervious, Inflow Depth = 0.80" for 10-yr event  
Inflow = 4.41 cfs @ 0.11 hrs, Volume= 2,643 cf  
Outflow = 4.41 cfs @ 0.15 hrs, Volume= 2,643 cf, Atten= 0%, Lag= 2.4 min  
Routed to Reach P-A3 : Pipe A3

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.25 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 2.50 fps, Avg. Travel Time= 1.2 min

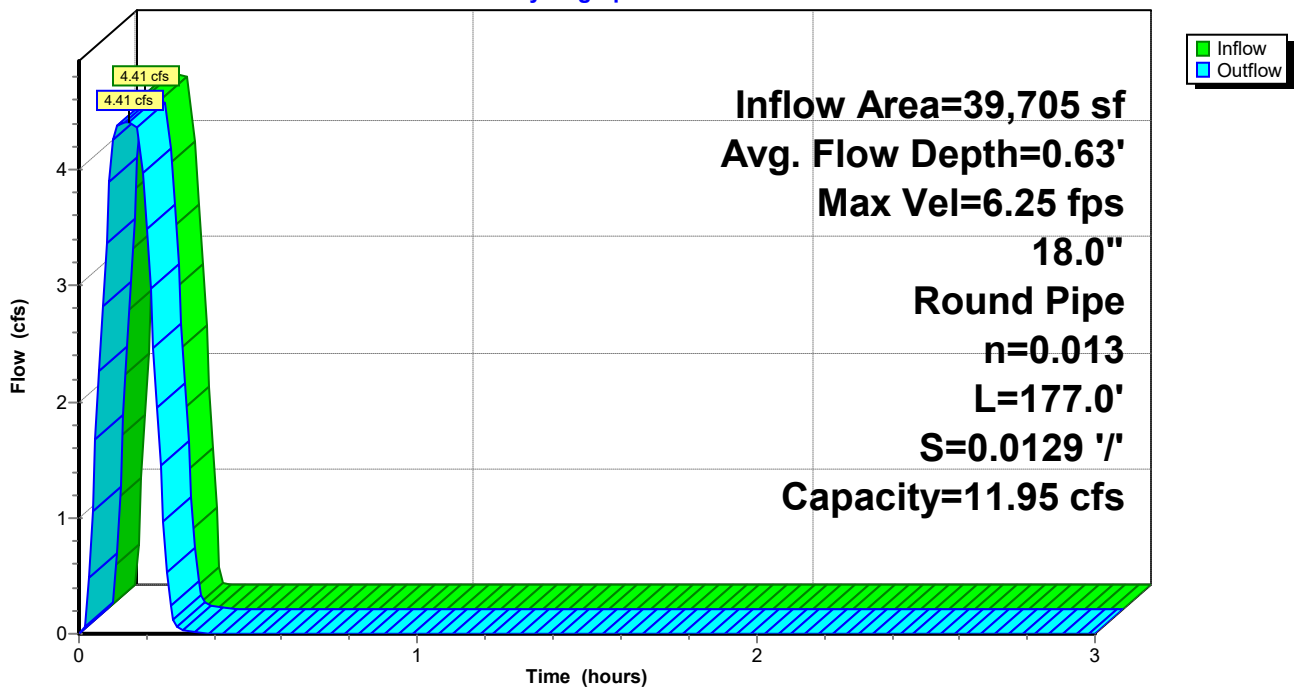
Peak Storage= 125 cf @ 0.14 hrs  
Average Depth at Peak Storage= 0.63' , Surface Width= 1.48'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.95 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 177.0' Slope= 0.0129 '/'  
Inlet Invert= 406.85', Outlet Invert= 404.56'



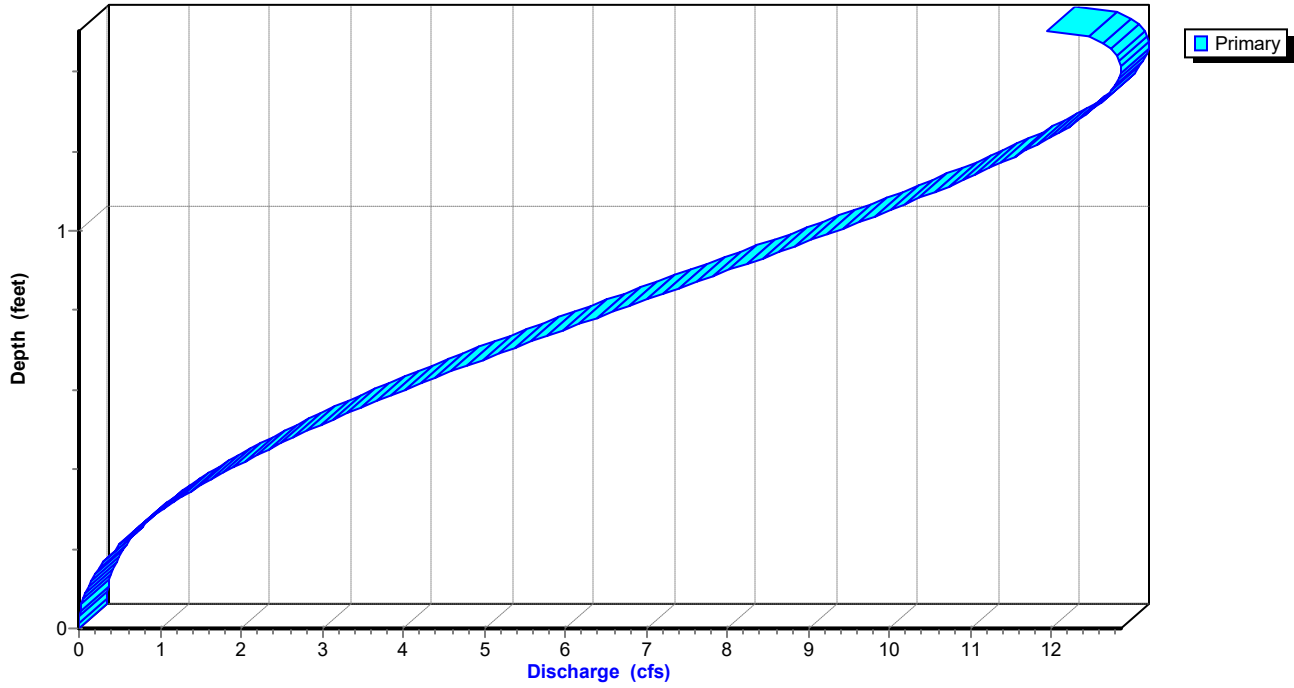
### Reach P-A2: Pipe A2

#### Hydrograph



### Reach P-A2: Pipe A2

Stage-Discharge





**Summerwood Gym 3***AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr*

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**Stage-Area-Storage for Reach P-A2: Pipe A2**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
406.85	0.0	0	407.89	1.3	231
406.87	0.0	1	407.91	1.3	236
406.89	0.0	2	407.93	1.4	241
406.91	0.0	4	407.95	1.4	246
406.93	0.0	6	407.97	1.4	250
406.95	0.1	9	407.99	1.4	255
406.97	0.1	12	408.01	1.5	260
406.99	0.1	15	408.03	1.5	264
407.01	0.1	18	408.05	1.5	268
407.03	0.1	21	408.07	1.5	272
407.05	0.1	25	408.09	1.6	277
407.07	0.2	28	408.11	1.6	280
407.09	0.2	32	408.13	1.6	284
407.11	0.2	36	408.15	1.6	288
407.13	0.2	40	408.17	1.6	292
407.15	0.3	45	408.19	1.7	295
407.17	0.3	49	408.21	1.7	298
407.19	0.3	53	408.23	1.7	301
407.21	0.3	58	408.25	1.7	304
407.23	0.4	62	408.27	1.7	306
407.25	0.4	67	408.29	1.7	309
407.27	0.4	72	408.31	1.8	310
407.29	0.4	76	408.33	1.8	312
407.31	0.5	81	408.35	<b>1.8</b>	<b>313</b>
407.33	0.5	86			
407.35	0.5	91			
407.37	0.5	96			
407.39	0.6	101			
407.41	0.6	106			
407.43	0.6	112			
407.45	0.7	117			
407.47	0.7	122			
407.49	0.7	127			
407.51	0.7	133			
407.53	0.8	138			
407.55	0.8	143			
407.57	0.8	148			
407.59	0.9	154			
407.61	0.9	159			
407.63	0.9	164			
407.65	1.0	170			
407.67	1.0	175			
407.69	1.0	180			
407.71	1.0	185			
407.73	1.1	191			
407.75	1.1	196			
407.77	1.1	201			
407.79	1.2	206			
407.81	1.2	211			
407.83	1.2	216			
407.85	1.3	222			
407.87	1.3	226			

### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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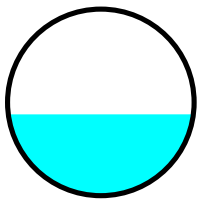
### Summary for Reach P-A3: Pipe A3

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.71" for 10-yr event  
Inflow = 7.00 cfs @ 0.17 hrs, Volume= 4,225 cf  
Outflow = 6.96 cfs @ 0.17 hrs, Volume= 4,225 cf, Atten= 1%, Lag= 0.3 min  
Routed to Reach P-A4 : Pipe A4

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.40 fps, Min. Travel Time= 0.2 min  
Avg. Velocity= 3.90 fps, Avg. Travel Time= 0.5 min

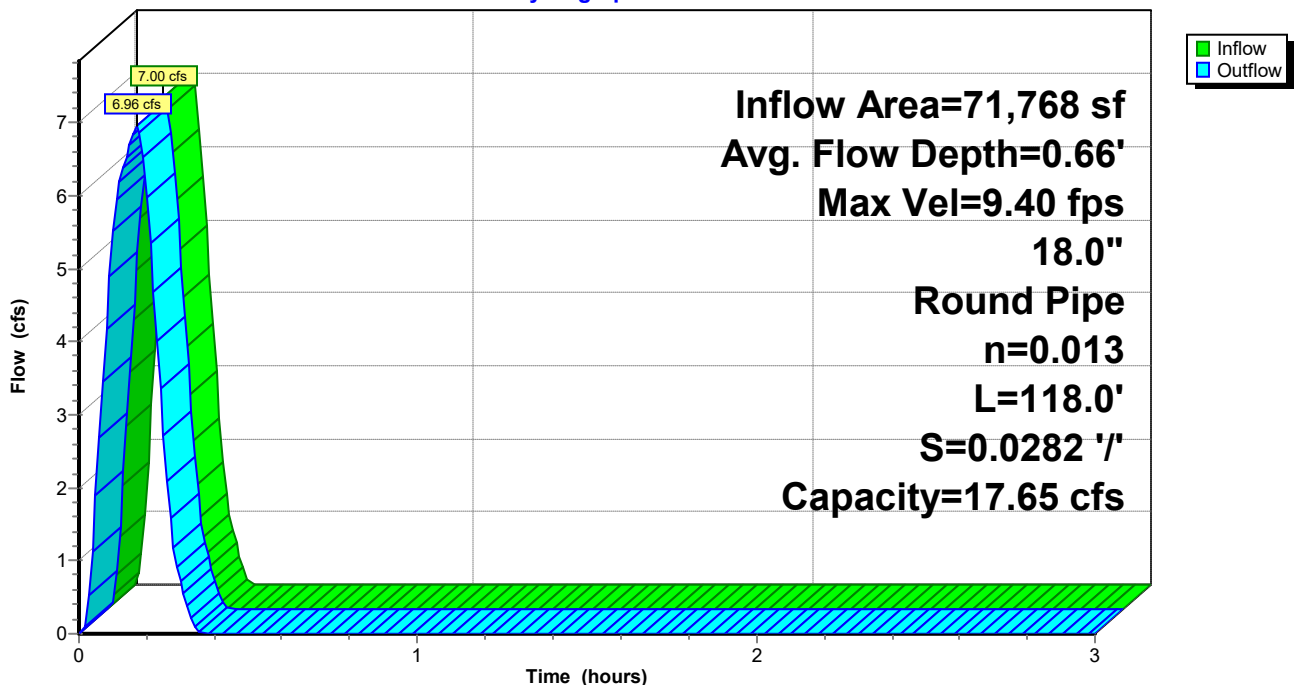
Peak Storage= 88 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.66' , Surface Width= 1.49'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.65 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 118.0' Slope= 0.0282 1/100  
Inlet Invert= 404.46', Outlet Invert= 401.13'



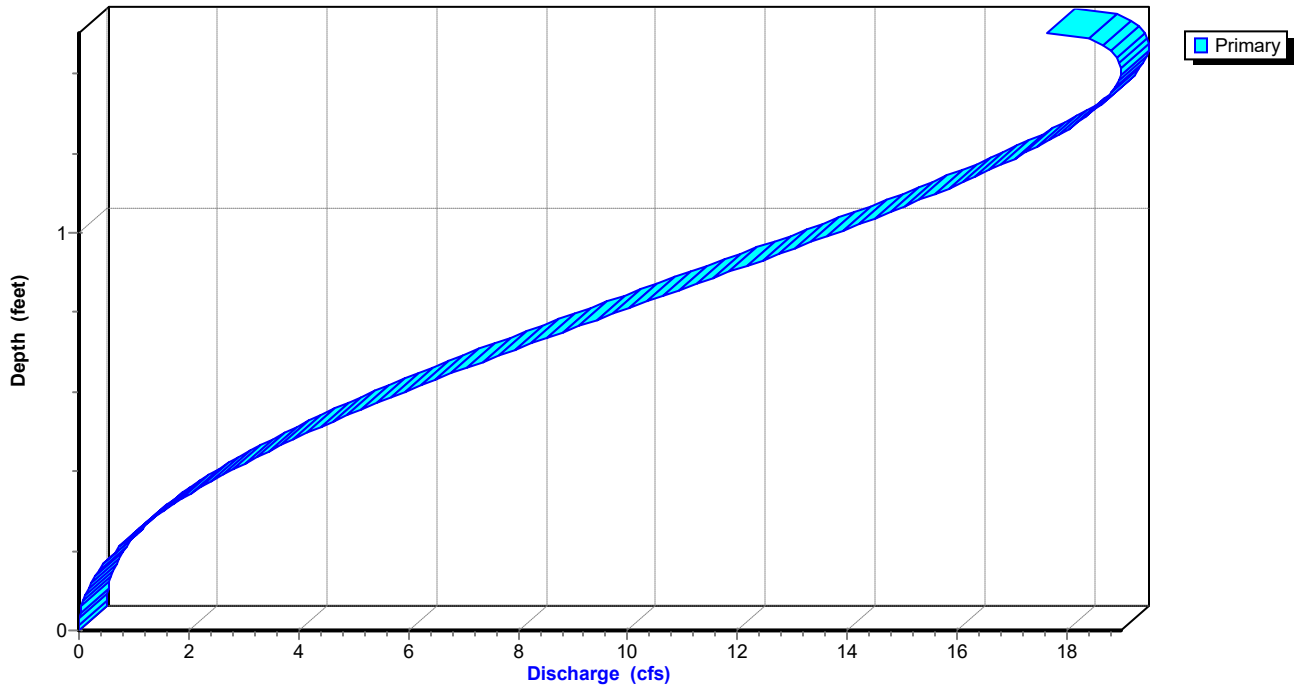
### Reach P-A3: Pipe A3

#### Hydrograph



### Reach P-A3: Pipe A3

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A3: Pipe A3**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
404.46	0.0	0	405.50	1.3	154
404.48	0.0	1	405.52	1.3	158
404.50	0.0	2	405.54	1.4	161
404.52	0.0	3	405.56	1.4	164
404.54	0.0	4	405.58	1.4	167
404.56	0.1	6	405.60	1.4	170
404.58	0.1	8	405.62	1.5	173
404.60	0.1	10	405.64	1.5	176
404.62	0.1	12	405.66	1.5	179
404.64	0.1	14	405.68	1.5	182
404.66	0.1	17	405.70	1.6	184
404.68	0.2	19	405.72	1.6	187
404.70	0.2	22	405.74	1.6	190
404.72	0.2	24	405.76	1.6	192
404.74	0.2	27	405.78	1.6	194
404.76	0.3	30	405.80	1.7	197
404.78	0.3	33	405.82	1.7	199
404.80	0.3	35	405.84	1.7	201
404.82	0.3	38	405.86	1.7	203
404.84	0.4	42	405.88	1.7	204
404.86	0.4	45	405.90	1.7	206
404.88	0.4	48	405.92	1.8	207
404.90	0.4	51	405.94	1.8	208
404.92	0.5	54	405.96	<b>1.8</b>	<b>209</b>
404.94	0.5	58			
404.96	0.5	61			
404.98	0.5	64			
405.00	0.6	68			
405.02	0.6	71			
405.04	0.6	74			
405.06	0.7	78			
405.08	0.7	81			
405.10	0.7	85			
405.12	0.7	88			
405.14	0.8	92			
405.16	0.8	95			
405.18	0.8	99			
405.20	0.9	102			
405.22	0.9	106			
405.24	0.9	110			
405.26	1.0	113			
405.28	1.0	117			
405.30	1.0	120			
405.32	1.0	124			
405.34	1.1	127			
405.36	1.1	131			
405.38	1.1	134			
405.40	1.2	138			
405.42	1.2	141			
405.44	1.2	144			
405.46	1.3	148			
405.48	1.3	151			

### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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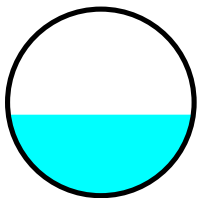
### Summary for Reach P-A4: Pipe A4

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.71" for 10-yr event  
Inflow = 6.96 cfs @ 0.17 hrs, Volume= 4,225 cf  
Outflow = 6.93 cfs @ 0.18 hrs, Volume= 4,225 cf, Atten= 0%, Lag= 0.4 min  
Routed to Pond DP1 : Re-Established East Pond

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.39 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 3.71 fps, Avg. Travel Time= 0.6 min

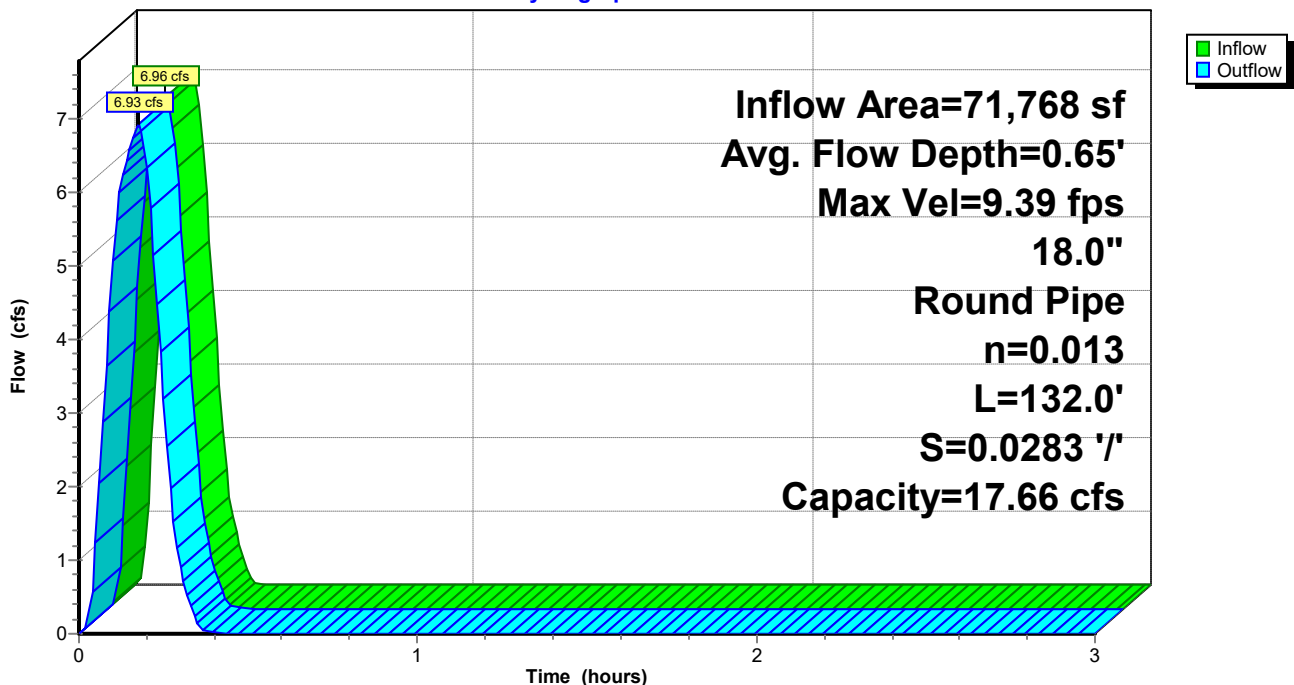
Peak Storage= 98 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.65' , Surface Width= 1.49'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.66 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 132.0' Slope= 0.0283 '/'  
Inlet Invert= 401.03', Outlet Invert= 397.30'



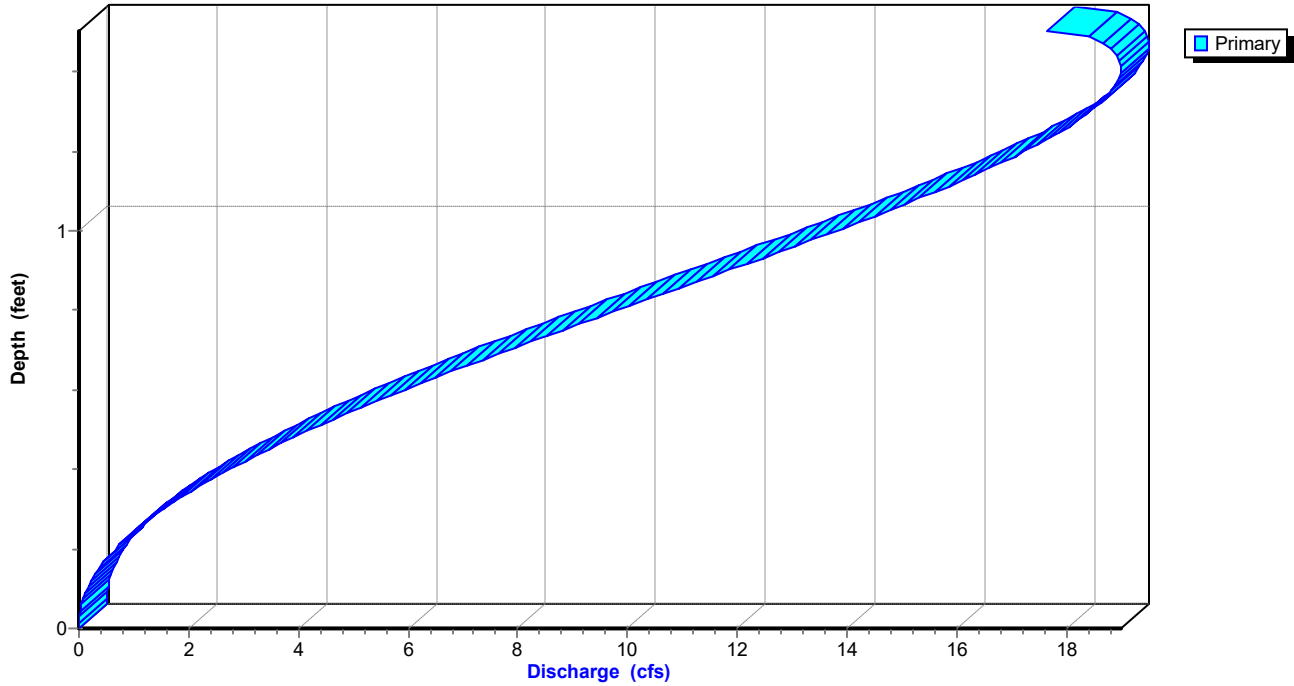
### Reach P-A4: Pipe A4

#### Hydrograph



### Reach P-A4: Pipe A4

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr*

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**Stage-Area-Storage for Reach P-A4: Pipe A4**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
401.03	0.0	0	402.07	1.3	173
401.05	0.0	1	402.09	1.3	176
401.07	0.0	2	402.11	1.4	180
401.09	0.0	3	402.13	1.4	183
401.11	0.0	5	402.15	1.4	187
401.13	0.1	7	402.17	1.4	190
401.15	0.1	9	402.19	1.5	194
401.17	0.1	11	402.21	1.5	197
401.19	0.1	13	402.23	1.5	200
401.21	0.1	16	402.25	1.5	203
401.23	0.1	18	402.27	1.6	206
401.25	0.2	21	402.29	1.6	209
401.27	0.2	24	402.31	1.6	212
401.29	0.2	27	402.33	1.6	215
401.31	0.2	30	402.35	1.6	217
401.33	0.3	33	402.37	1.7	220
401.35	0.3	36	402.39	1.7	222
401.37	0.3	40	402.41	1.7	225
401.39	0.3	43	402.43	1.7	227
401.41	0.4	46	402.45	1.7	228
401.43	0.4	50	402.47	1.7	230
401.45	0.4	53	402.49	1.8	232
401.47	0.4	57	402.51	1.8	233
401.49	0.5	61	402.53	<b>1.8</b>	<b>233</b>
401.51	0.5	64			
401.53	0.5	68			
401.55	0.5	72			
401.57	0.6	76			
401.59	0.6	79			
401.61	0.6	83			
401.63	0.7	87			
401.65	0.7	91			
401.67	0.7	95			
401.69	0.7	99			
401.71	0.8	103			
401.73	0.8	107			
401.75	0.8	111			
401.77	0.9	115			
401.79	0.9	119			
401.81	0.9	123			
401.83	1.0	127			
401.85	1.0	130			
401.87	1.0	134			
401.89	1.0	138			
401.91	1.1	142			
401.93	1.1	146			
401.95	1.1	150			
401.97	1.2	154			
401.99	1.2	158			
402.01	1.2	161			
402.03	1.3	165			
402.05	1.3	169			

### Summerwood Gym 3

AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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### Summary for Pond DP1: Re-Established East Pond

Inflow Area = 132,514 sf, 61.41% Impervious, Inflow Depth = 0.72" for 10-yr event  
Inflow = 12.95 cfs @ 0.16 hrs, Volume= 7,945 cf  
Outflow = 7.07 cfs @ 0.22 hrs, Volume= 7,945 cf, Atten= 45%, Lag= 3.7 min  
Primary = 7.07 cfs @ 0.22 hrs, Volume= 7,945 cf  
Routed to Link Post-Dev : APPROX DISCHARGE

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 398.14' @ 0.22 hrs Storage= 4,074 cf

Plug-Flow detention time= 8.2 min calculated for 7,919 cf (100% of inflow)  
Center-of-Mass det. time= 8.3 min ( 17.2 - 8.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	396.00'	8,557 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
396.00	0	0
396.50	250	250
397.00	1,092	1,342
398.00	2,387	3,729
399.00	2,405	6,134
400.00	2,423	8,557

Device	Routing	Invert	Outlet Devices
#1	Primary	399.00'	<b>5.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#2	Primary	396.00'	<b>1.1' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s) 10.0' Crest Height

**Primary OutFlow** Max=7.06 cfs @ 0.22 hrs HW=398.14' (Free Discharge)

└─1=Sharp-Crested Rectangular Weir ( Controls 0.00 cfs)

└─2=Sharp-Crested Rectangular Weir (Weir Controls 7.06 cfs @ 4.91 fps)



# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

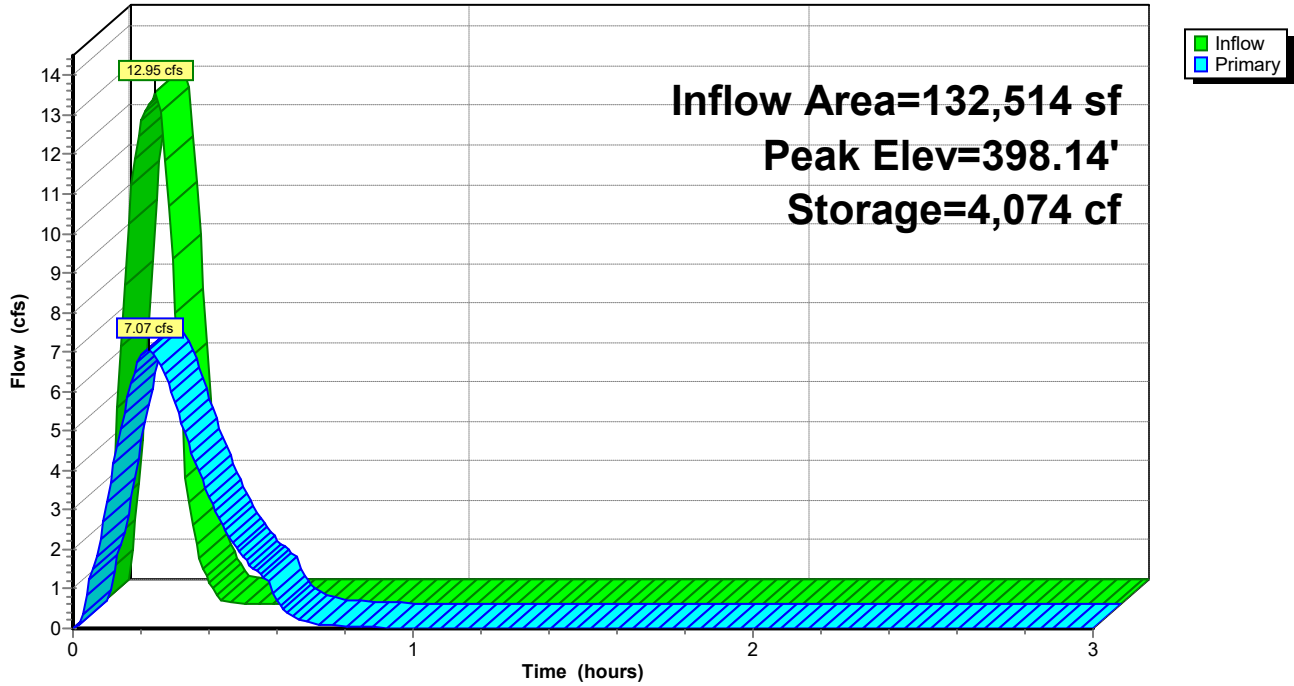
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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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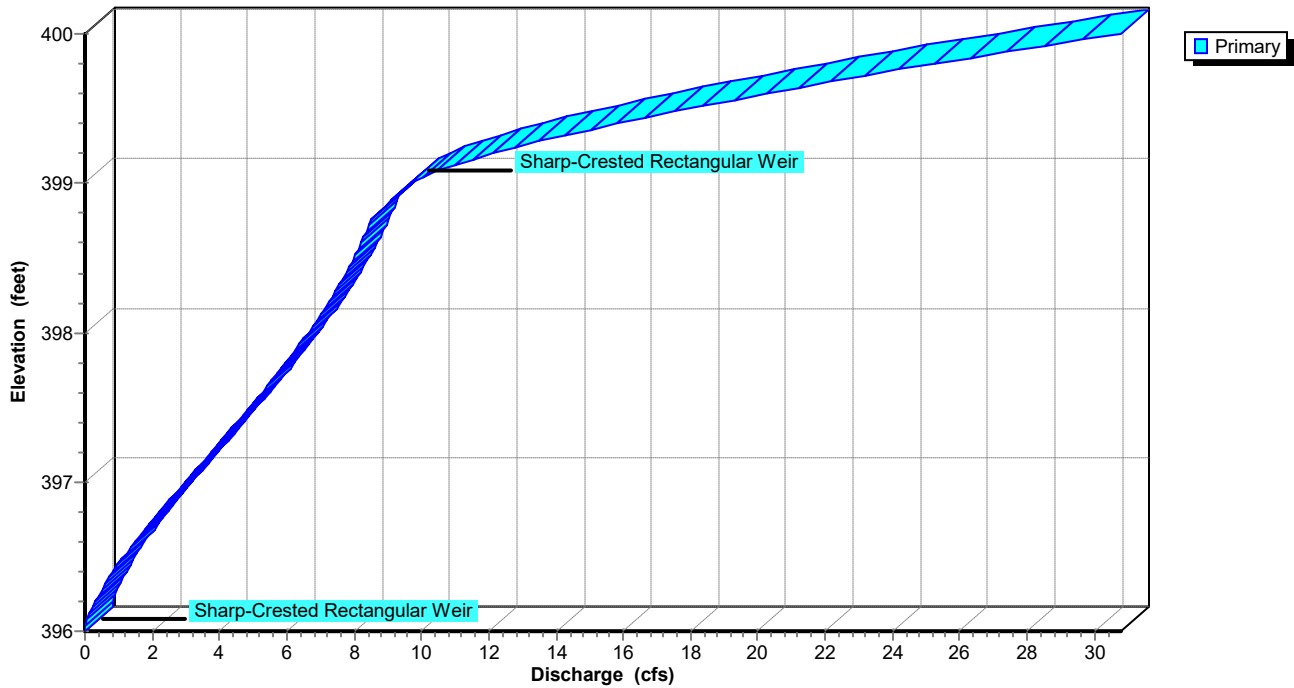
## Pond DP1: Re-Established East Pond

Hydrograph



## Pond DP1: Re-Established East Pond

Stage-Discharge



**Summerwood Gym 3**

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*AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr*

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**Stage-Area-Storage for Pond DP1: Re-Established East Pond**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
396.00	0	398.60	5,172
396.05	25	398.65	5,292
396.10	50	398.70	5,412
396.15	75	398.75	5,533
396.20	100	398.80	5,653
396.25	125	398.85	5,773
396.30	150	398.90	5,893
396.35	175	398.95	6,014
396.40	200	399.00	6,134
396.45	225	399.05	6,255
396.50	250	399.10	6,376
396.55	359	399.15	6,497
396.60	468	399.20	6,619
396.65	578	399.25	6,740
396.70	687	399.30	6,861
396.75	796	399.35	6,982
396.80	905	399.40	7,103
396.85	1,014	399.45	7,224
396.90	1,124	399.50	7,346
396.95	1,233	399.55	7,467
397.00	1,342	399.60	7,588
397.05	1,461	399.65	7,709
397.10	1,581	399.70	7,830
397.15	1,700	399.75	7,951
397.20	1,819	399.80	8,072
397.25	1,939	399.85	8,194
397.30	2,058	399.90	8,315
397.35	2,177	399.95	8,436
397.40	2,297	400.00	<b>8,557</b>
397.45	2,416		
397.50	2,536		
397.55	2,655		
397.60	2,774		
397.65	2,894		
397.70	3,013		
397.75	3,132		
397.80	3,252		
397.85	3,371		
397.90	3,490		
397.95	3,610		
398.00	3,729		
398.05	3,849		
398.10	3,970		
398.15	4,090		
398.20	4,210		
398.25	4,330		
398.30	4,451		
398.35	4,571		
398.40	4,691		
398.45	4,811		
398.50	4,932		
398.55	5,052		

# Summerwood Gym 3

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AR - Little Rock 10-yr Duration=10 min, Inten=5.83 in/hr

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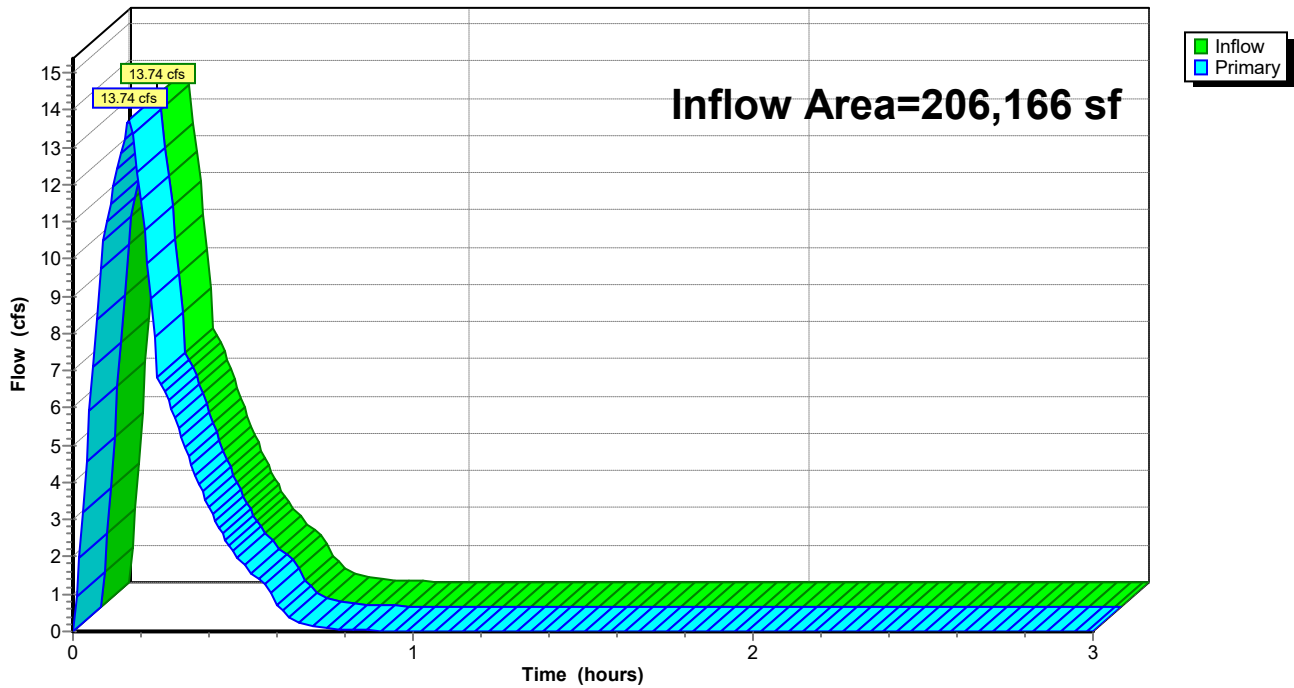
## Summary for Link Post-Dev: APPROX DISCHARGE

Inflow Area = 206,166 sf, 64.42% Impervious, Inflow Depth = 0.73" for 10-yr event  
Inflow = 13.74 cfs @ 0.17 hrs, Volume= 12,613 cf  
Primary = 13.74 cfs @ 0.17 hrs, Volume= 12,613 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post-Dev: APPROX DISCHARGE

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D1: Drainage Basin D1**

Runoff = 6.89 cfs @ 0.09 hrs, Volume= 4,126 cf, Depth= 1.02"  
 Routed to Link Post-Dev : APPROX DISCHARGE

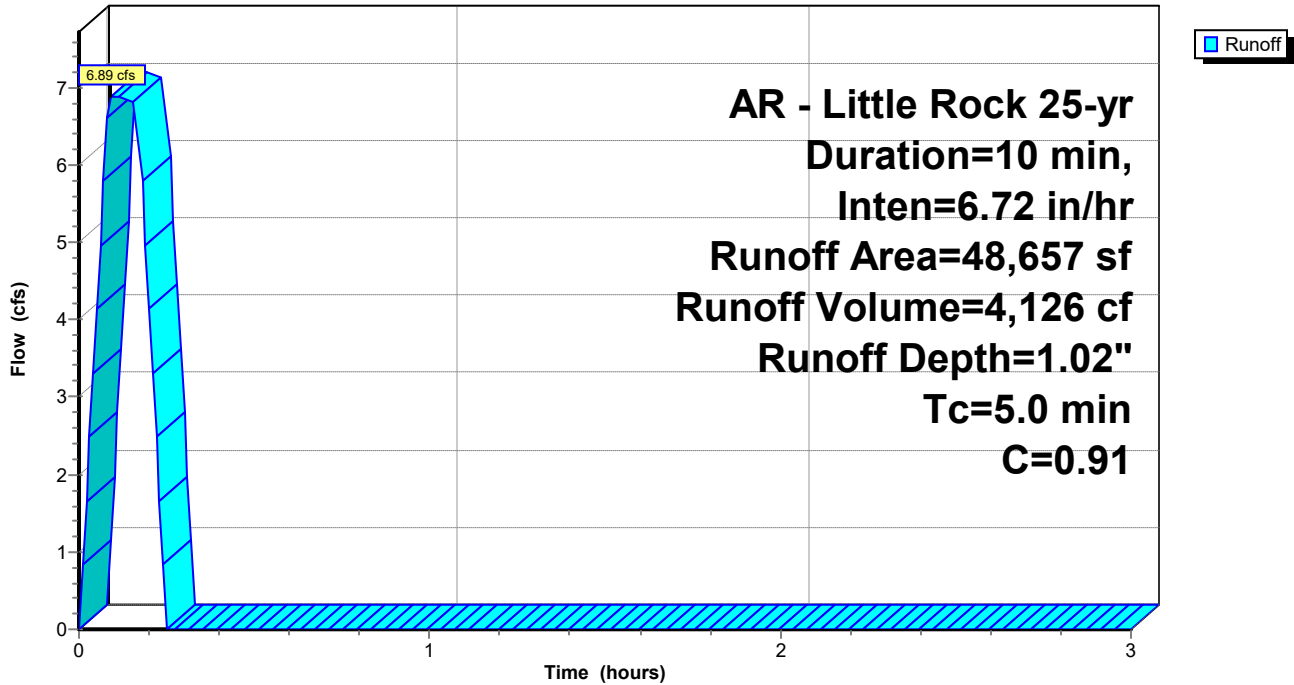
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
3,421	0.40	Sod Yard
45,236	0.95	Rood, Drives, Sidewalks
48,657	0.91	Weighted Average
3,421		7.03% Pervious Area
45,236		92.97% Impervious Area

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

**Subcatchment D1: Drainage Basin D1**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D2: Drainage Basin D2**

Runoff = 2.92 cfs @ 0.09 hrs, Volume= 1,752 cf, Depth= 0.86"

Routed to Reach P-A1 : Pipe A1

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

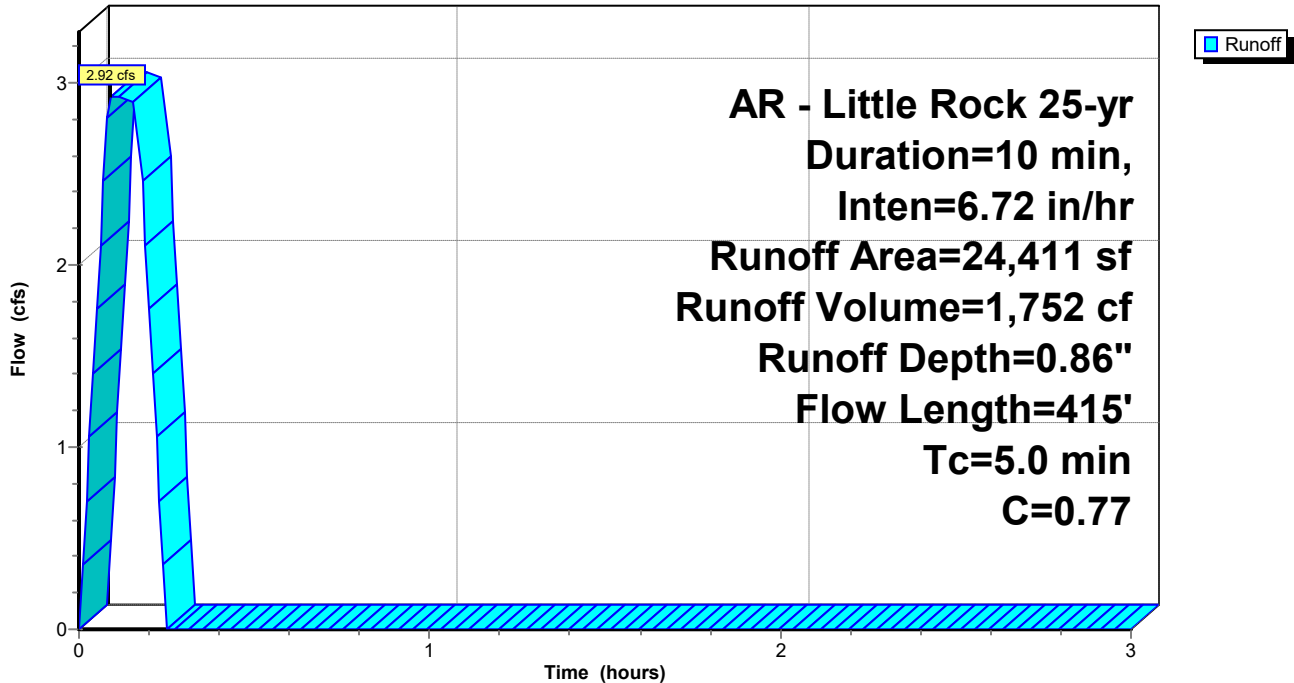
AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
8,845	0.45	Rip Rap Embankment
15,566	0.95	Roof, Drives, Sidewalks
24,411	0.77	Weighted Average
8,845		36.23% Pervious Area
15,566		63.77% Impervious 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 D2: Drainage Basin D2**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D3: Drainage Basin D3**

Runoff = 2.16 cfs @ 0.09 hrs, Volume= 1,297 cf, Depth= 1.02"

Routed to Reach P-A2 : Pipe A2

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

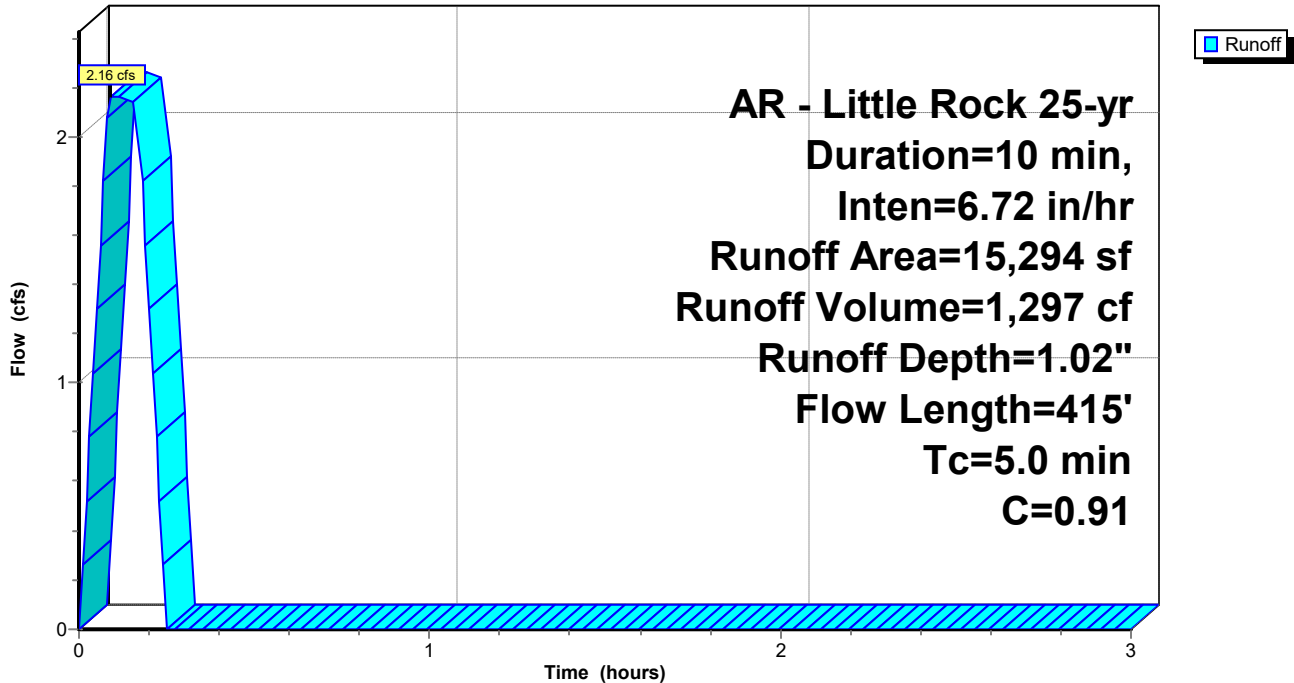
AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
1,065	0.40	Sod Yard
14,229	0.95	Paving, Sidewalks
15,294	0.91	Weighted Average
1,065		6.96% Pervious Area
14,229		93.04% Impervious 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 D3: Drainage Basin D3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D4: Drainage Basin D4**

Runoff = 2.99 cfs @ 0.17 hrs, Volume= 1,825 cf, Depth= 0.68"

Routed to Reach P-A3 : Pipe A3

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

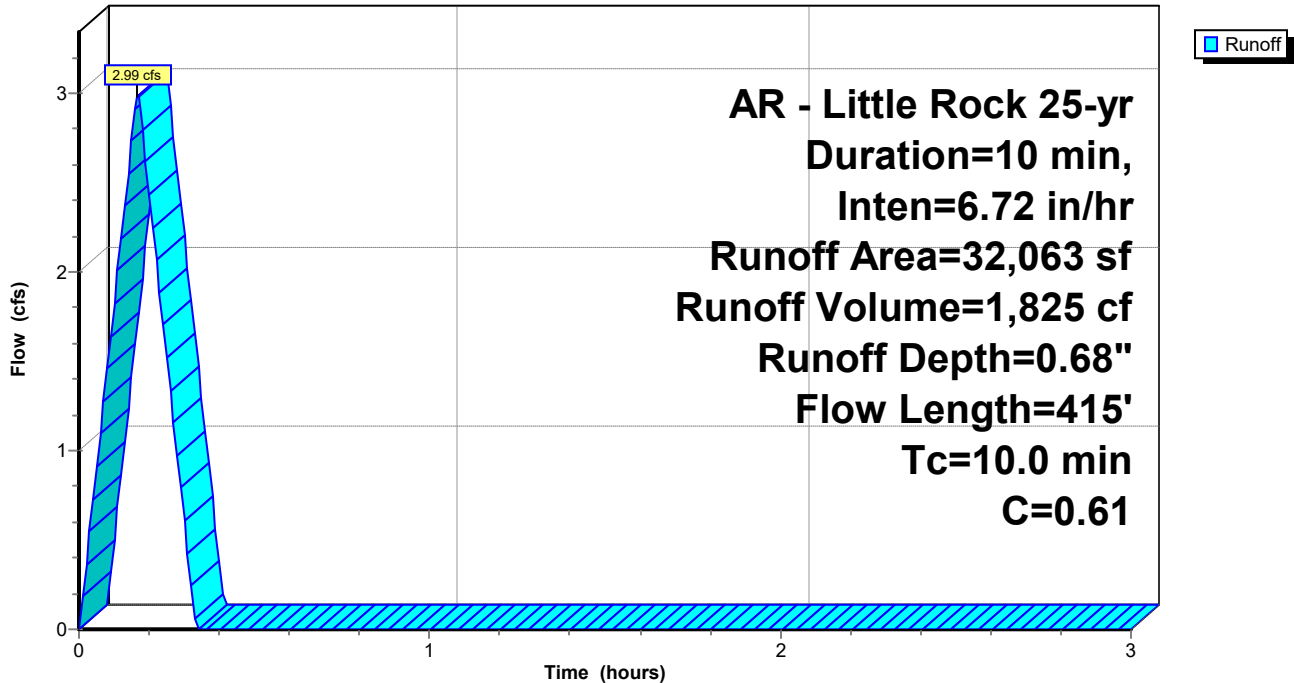
AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
20,032	0.40	
12,031	0.95	
32,063	0.61	Weighted Average
20,032		62.48% Pervious Area
12,031		37.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment D4: Drainage Basin D4**

Hydrograph



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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D5: Drainage Basin D5**

Runoff = 4.34 cfs @ 0.09 hrs, Volume= 2,600 cf, Depth= 0.75"  
 Routed to Pond DP1 : Re-Established East Pond

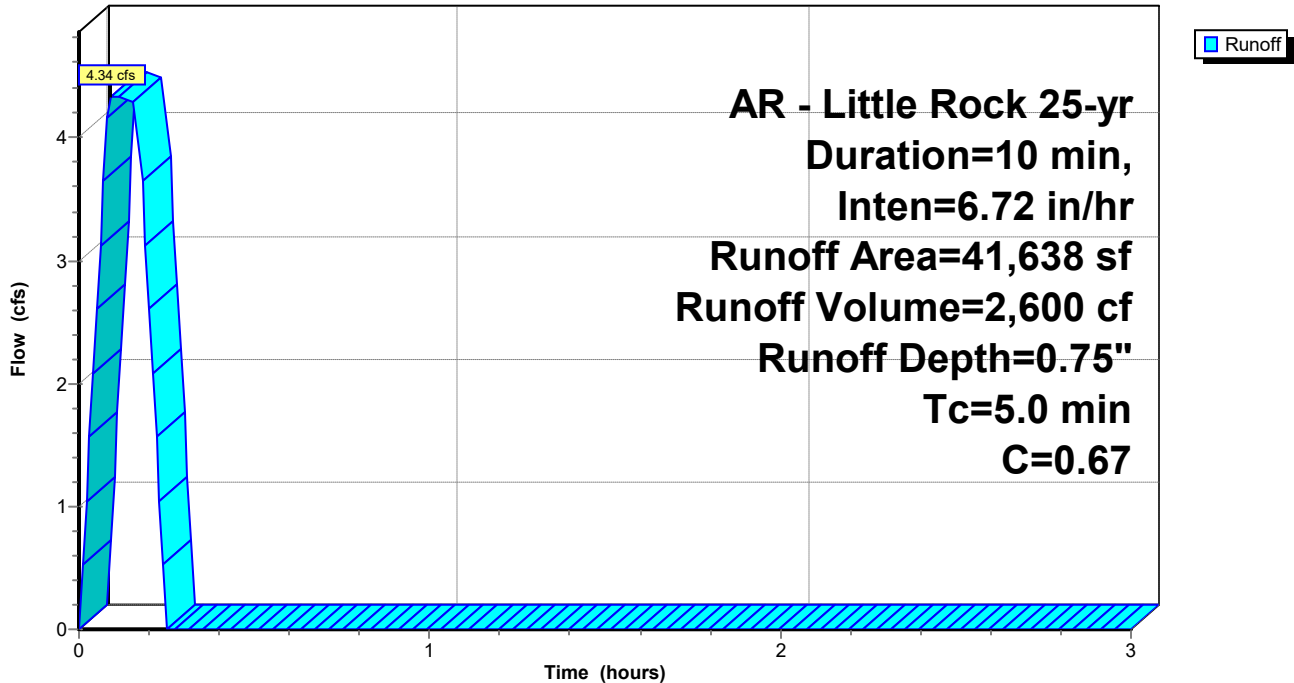
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
21,201	0.40	Sod Yard, Natural Vegetation
20,437	0.95	Paving, Sidewalks
41,638	0.67	Weighted Average
21,201		50.92% Pervious Area
20,437		49.08% Impervious Area

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

**Subcatchment D5: Drainage Basin D5**

Hydrograph





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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D6: Drainage Basin D6**

Runoff = 2.82 cfs @ 0.09 hrs, Volume= 1,692 cf, Depth= 1.06"  
 Routed to Pond DP1 : Re-Established East Pond

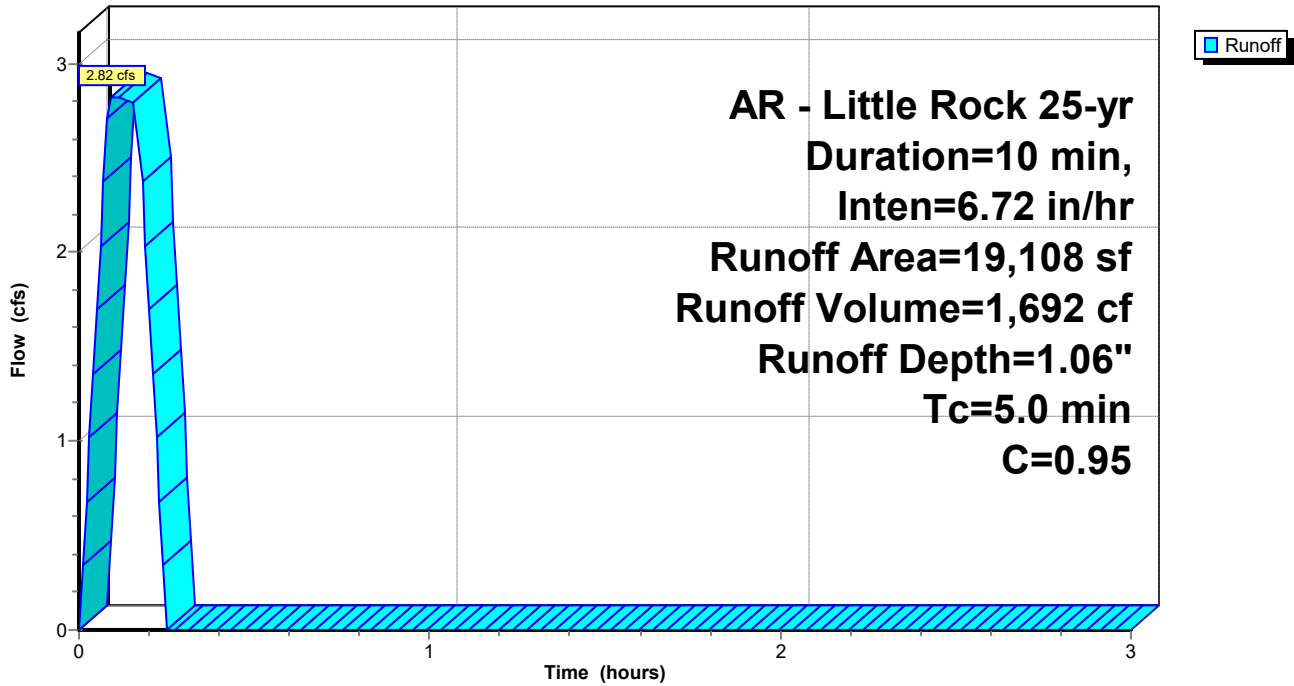
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
19,108	0.95	Roof
19,108		100.00% Impervious Area

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

**Subcatchment D6: Drainage Basin D6**

Hydrograph



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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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**Summary for Subcatchment D7: Drainage Basin D7**

Runoff = 2.10 cfs @ 0.09 hrs, Volume= 1,258 cf, Depth= 0.60"  
 Routed to Link Post-Dev : APPROX DISCHARGE

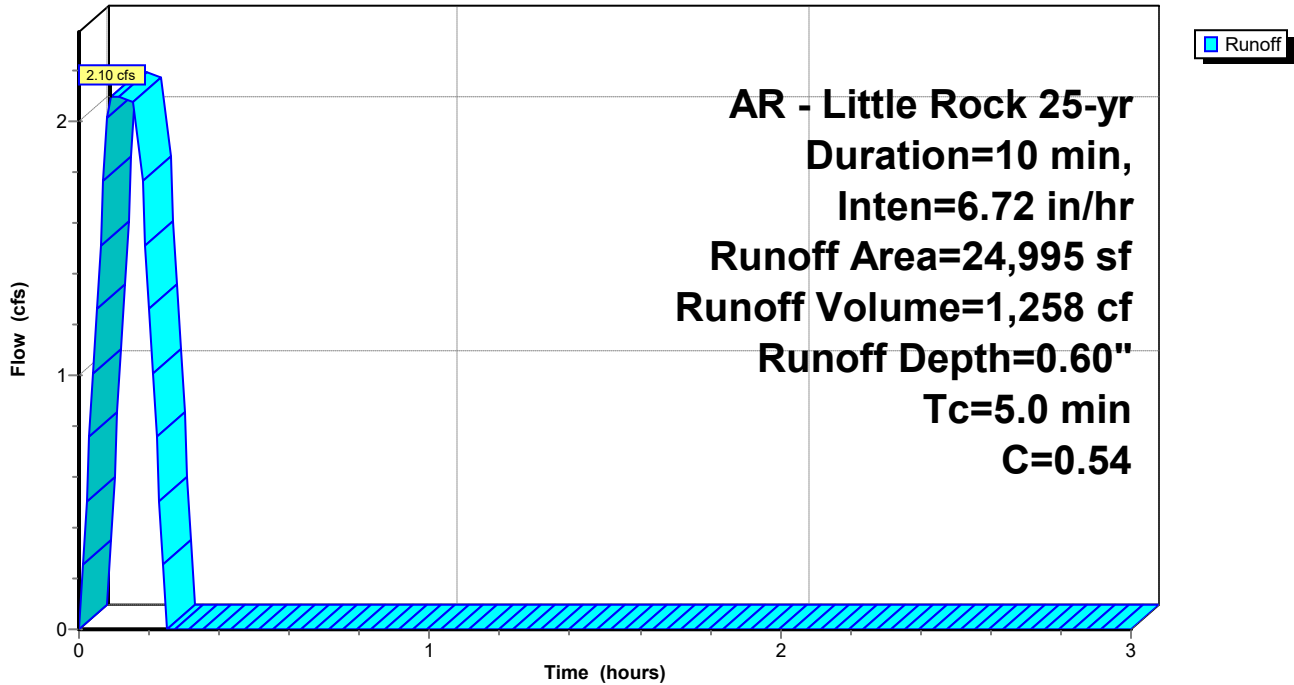
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Area (sf)	C	Description
18,798	0.40	Sod Yard, Natural Vegetation
6,197	0.95	Paving, Sidewalks
24,995	0.54	Weighted Average
18,798		75.21% Pervious Area
6,197		24.79% Impervious Area

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

**Subcatchment D7: Drainage Basin D7**

Hydrograph



### Summerwood Gym 3

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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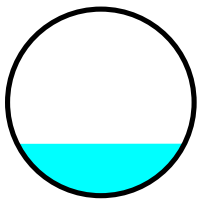
### Summary for Reach P-A1: Pipe A1

Inflow Area = 24,411 sf, 63.77% Impervious, Inflow Depth = 0.86" for 25-yr event  
Inflow = 2.92 cfs @ 0.09 hrs, Volume= 1,752 cf  
Outflow = 2.92 cfs @ 0.11 hrs, Volume= 1,752 cf, Atten= 0%, Lag= 1.2 min  
Routed to Reach P-A2 : Pipe A2

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 7.28 fps, Min. Travel Time= 0.1 min  
Avg. Velocity = 5.29 fps, Avg. Travel Time= 0.2 min

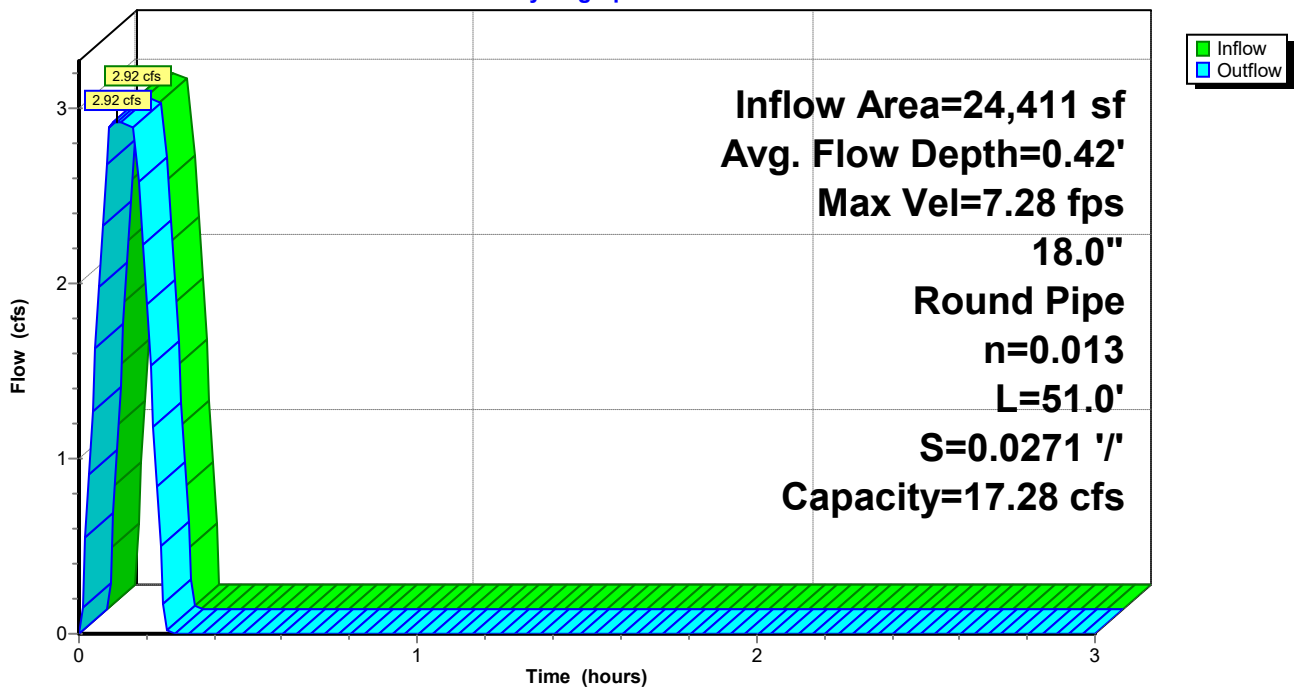
Peak Storage= 20 cf @ 0.09 hrs  
Average Depth at Peak Storage= 0.42' , Surface Width= 1.34'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.28 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 51.0' Slope= 0.0271 '/'  
Inlet Invert= 408.33', Outlet Invert= 406.95'



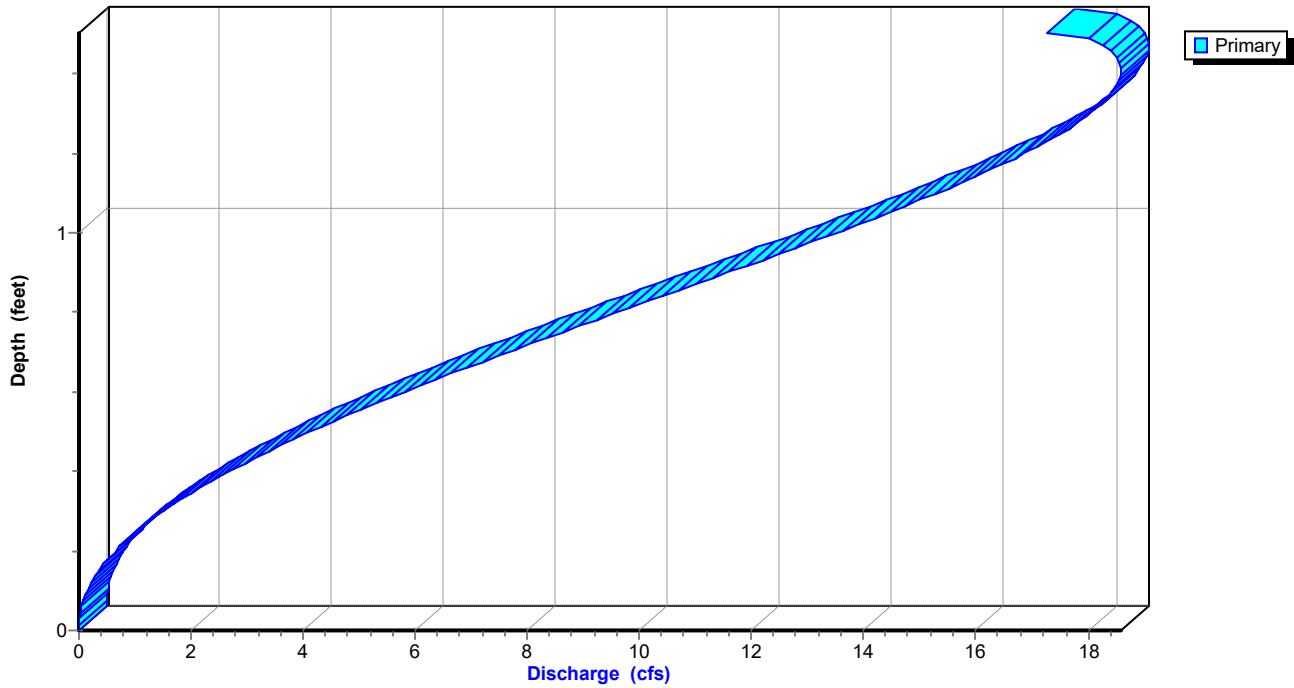
### Reach P-A1: Pipe A1

Hydrograph



### Reach P-A1: Pipe A1

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr*

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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**Stage-Area-Storage for Reach P-A1: Pipe A1**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
408.33	0.0	0	409.37	1.3	67
408.35	0.0	0	409.39	1.3	68
408.37	0.0	1	409.41	1.4	69
408.39	0.0	1	409.43	1.4	71
408.41	0.0	2	409.45	1.4	72
408.43	0.1	3	409.47	1.4	73
408.45	0.1	3	409.49	1.5	75
408.47	0.1	4	409.51	1.5	76
408.49	0.1	5	409.53	1.5	77
408.51	0.1	6	409.55	1.5	78
408.53	0.1	7	409.57	1.6	80
408.55	0.2	8	409.59	1.6	81
408.57	0.2	9	409.61	1.6	82
408.59	0.2	10	409.63	1.6	83
408.61	0.2	12	409.65	1.6	84
408.63	0.3	13	409.67	1.7	85
408.65	0.3	14	409.69	1.7	86
408.67	0.3	15	409.71	1.7	87
408.69	0.3	17	409.73	1.7	88
408.71	0.4	18	409.75	1.7	88
408.73	0.4	19	409.77	1.7	89
408.75	0.4	21	409.79	1.8	89
408.77	0.4	22	409.81	1.8	90
408.79	0.5	23	409.83	<b>1.8</b>	<b>90</b>
408.81	0.5	25			
408.83	0.5	26			
408.85	0.5	28			
408.87	0.6	29			
408.89	0.6	31			
408.91	0.6	32			
408.93	0.7	34			
408.95	0.7	35			
408.97	0.7	37			
408.99	0.7	38			
409.01	0.8	40			
409.03	0.8	41			
409.05	0.8	43			
409.07	0.9	44			
409.09	0.9	46			
409.11	0.9	47			
409.13	1.0	49			
409.15	1.0	50			
409.17	1.0	52			
409.19	1.0	53			
409.21	1.1	55			
409.23	1.1	56			
409.25	1.1	58			
409.27	1.2	59			
409.29	1.2	61			
409.31	1.2	62			
409.33	1.3	64			
409.35	1.3	65			

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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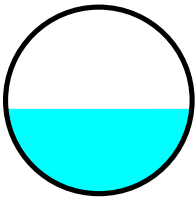
## Summary for Reach P-A2: Pipe A2

Inflow Area = 39,705 sf, 75.04% Impervious, Inflow Depth = 0.92" for 25-yr event  
Inflow = 5.09 cfs @ 0.11 hrs, Volume= 3,048 cf  
Outflow = 5.09 cfs @ 0.15 hrs, Volume= 3,048 cf, Atten= 0%, Lag= 2.4 min  
Routed to Reach P-A3 : Pipe A3

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.49 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 2.58 fps, Avg. Travel Time= 1.1 min

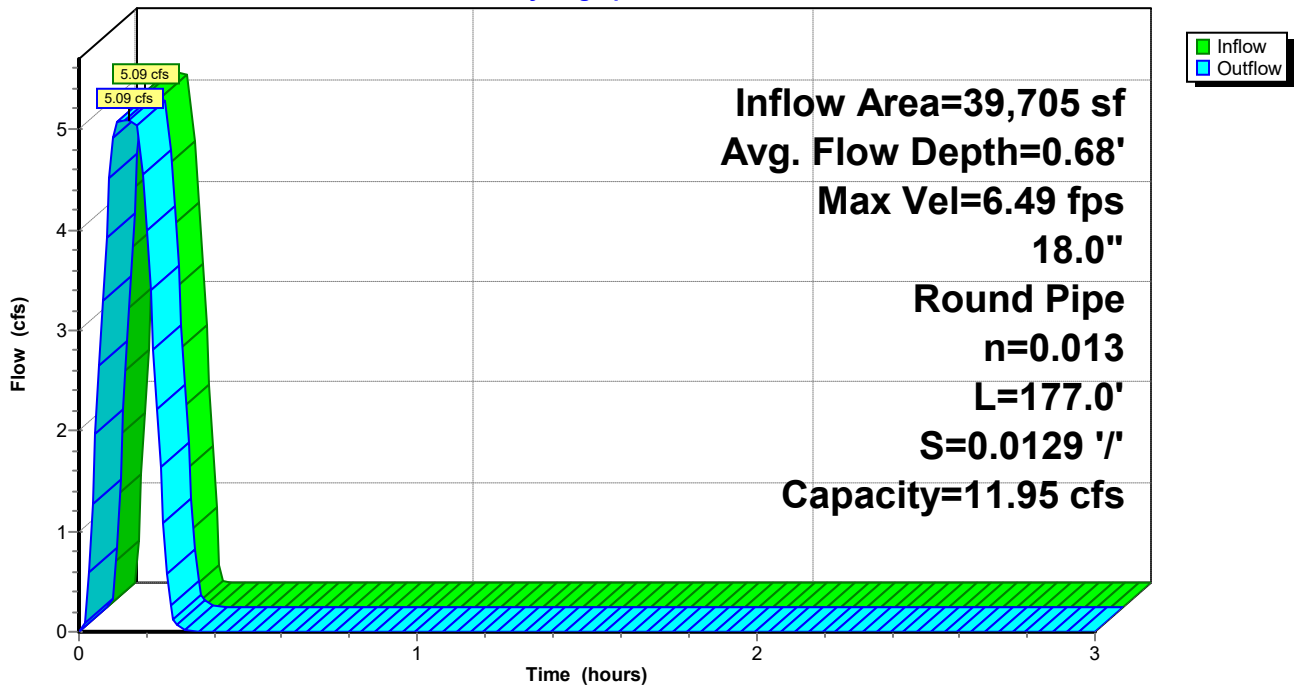
Peak Storage= 139 cf @ 0.14 hrs  
Average Depth at Peak Storage= 0.68' , Surface Width= 1.49'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.95 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 177.0' Slope= 0.0129 '/'  
Inlet Invert= 406.85', Outlet Invert= 404.56'



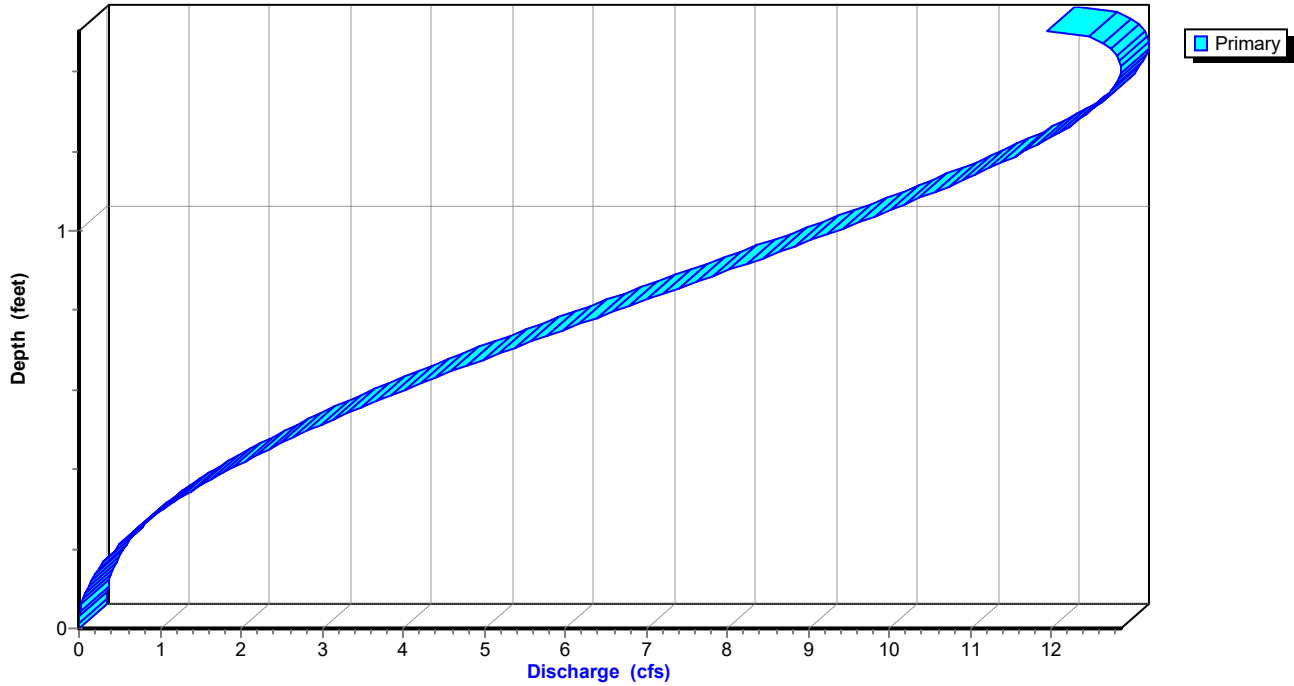
## Reach P-A2: Pipe A2

Hydrograph



### Reach P-A2: Pipe A2

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A2: Pipe A2**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
406.85	0.0	0	407.89	1.3	231
406.87	0.0	1	407.91	1.3	236
406.89	0.0	2	407.93	1.4	241
406.91	0.0	4	407.95	1.4	246
406.93	0.0	6	407.97	1.4	250
406.95	0.1	9	407.99	1.4	255
406.97	0.1	12	408.01	1.5	260
406.99	0.1	15	408.03	1.5	264
407.01	0.1	18	408.05	1.5	268
407.03	0.1	21	408.07	1.5	272
407.05	0.1	25	408.09	1.6	277
407.07	0.2	28	408.11	1.6	280
407.09	0.2	32	408.13	1.6	284
407.11	0.2	36	408.15	1.6	288
407.13	0.2	40	408.17	1.6	292
407.15	0.3	45	408.19	1.7	295
407.17	0.3	49	408.21	1.7	298
407.19	0.3	53	408.23	1.7	301
407.21	0.3	58	408.25	1.7	304
407.23	0.4	62	408.27	1.7	306
407.25	0.4	67	408.29	1.7	309
407.27	0.4	72	408.31	1.8	310
407.29	0.4	76	408.33	1.8	312
407.31	0.5	81	408.35	<b>1.8</b>	<b>313</b>
407.33	0.5	86			
407.35	0.5	91			
407.37	0.5	96			
407.39	0.6	101			
407.41	0.6	106			
407.43	0.6	112			
407.45	0.7	117			
407.47	0.7	122			
407.49	0.7	127			
407.51	0.7	133			
407.53	0.8	138			
407.55	0.8	143			
407.57	0.8	148			
407.59	0.9	154			
407.61	0.9	159			
407.63	0.9	164			
407.65	1.0	170			
407.67	1.0	175			
407.69	1.0	180			
407.71	1.0	185			
407.73	1.1	191			
407.75	1.1	196			
407.77	1.1	201			
407.79	1.2	206			
407.81	1.2	211			
407.83	1.2	216			
407.85	1.3	222			
407.87	1.3	226			



### Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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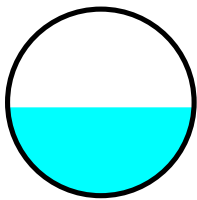
### Summary for Reach P-A3: Pipe A3

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.81" for 25-yr event  
Inflow = 8.08 cfs @ 0.17 hrs, Volume= 4,873 cf  
Outflow = 8.02 cfs @ 0.17 hrs, Volume= 4,873 cf, Atten= 1%, Lag= 0.2 min  
Routed to Reach P-A4 : Pipe A4

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.76 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 4.04 fps, Avg. Travel Time= 0.5 min

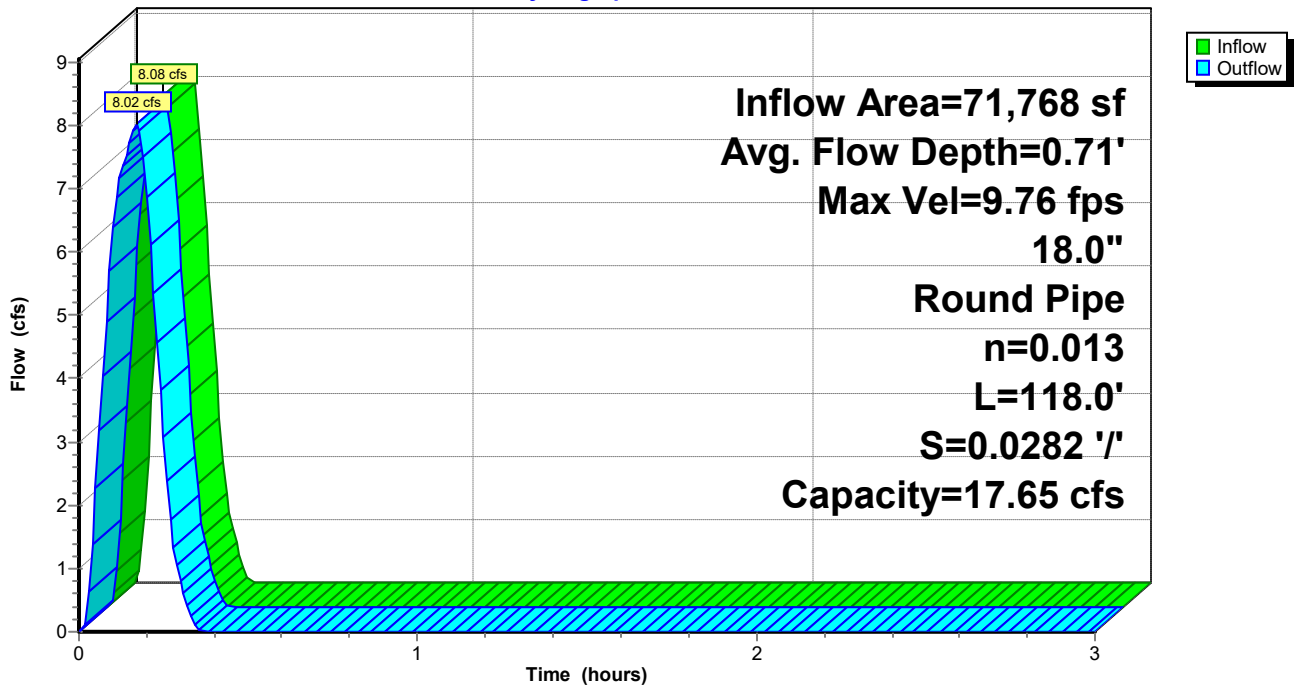
Peak Storage= 97 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.71' , Surface Width= 1.50'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.65 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 118.0' Slope= 0.0282 '/'  
Inlet Invert= 404.46', Outlet Invert= 401.13'



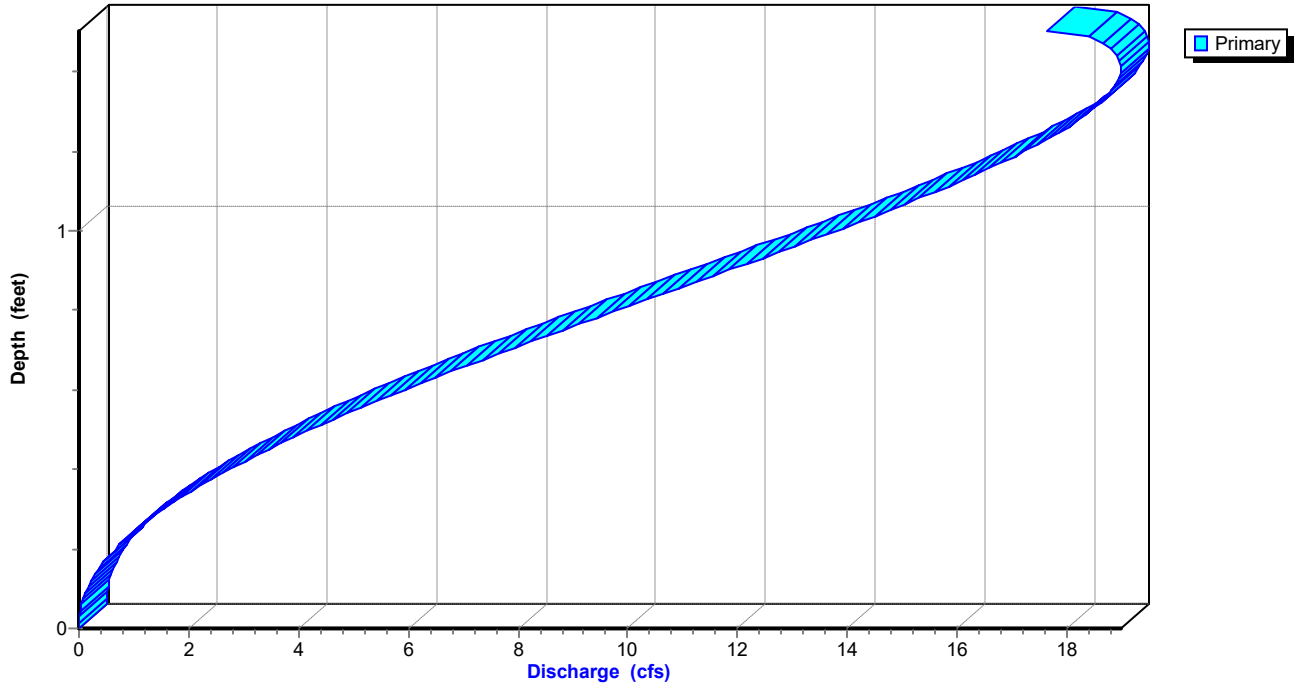
### Reach P-A3: Pipe A3

Hydrograph



### Reach P-A3: Pipe A3

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr*

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Reach P-A3: Pipe A3**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
404.46	0.0	0	405.50	1.3	154
404.48	0.0	1	405.52	1.3	158
404.50	0.0	2	405.54	1.4	161
404.52	0.0	3	405.56	1.4	164
404.54	0.0	4	405.58	1.4	167
404.56	0.1	6	405.60	1.4	170
404.58	0.1	8	405.62	1.5	173
404.60	0.1	10	405.64	1.5	176
404.62	0.1	12	405.66	1.5	179
404.64	0.1	14	405.68	1.5	182
404.66	0.1	17	405.70	1.6	184
404.68	0.2	19	405.72	1.6	187
404.70	0.2	22	405.74	1.6	190
404.72	0.2	24	405.76	1.6	192
404.74	0.2	27	405.78	1.6	194
404.76	0.3	30	405.80	1.7	197
404.78	0.3	33	405.82	1.7	199
404.80	0.3	35	405.84	1.7	201
404.82	0.3	38	405.86	1.7	203
404.84	0.4	42	405.88	1.7	204
404.86	0.4	45	405.90	1.7	206
404.88	0.4	48	405.92	1.8	207
404.90	0.4	51	405.94	1.8	208
404.92	0.5	54	405.96	<b>1.8</b>	<b>209</b>
404.94	0.5	58			
404.96	0.5	61			
404.98	0.5	64			
405.00	0.6	68			
405.02	0.6	71			
405.04	0.6	74			
405.06	0.7	78			
405.08	0.7	81			
405.10	0.7	85			
405.12	0.7	88			
405.14	0.8	92			
405.16	0.8	95			
405.18	0.8	99			
405.20	0.9	102			
405.22	0.9	106			
405.24	0.9	110			
405.26	1.0	113			
405.28	1.0	117			
405.30	1.0	120			
405.32	1.0	124			
405.34	1.1	127			
405.36	1.1	131			
405.38	1.1	134			
405.40	1.2	138			
405.42	1.2	141			
405.44	1.2	144			
405.46	1.3	148			
405.48	1.3	151			

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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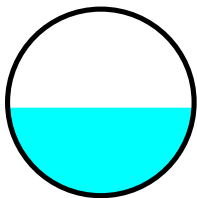
## Summary for Reach P-A4: Pipe A4

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.81" for 25-yr event  
Inflow = 8.02 cfs @ 0.17 hrs, Volume= 4,873 cf  
Outflow = 7.99 cfs @ 0.18 hrs, Volume= 4,873 cf, Atten= 0%, Lag= 0.4 min  
Routed to Pond DP1 : Re-Established East Pond

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 9.74 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 3.84 fps, Avg. Travel Time= 0.6 min

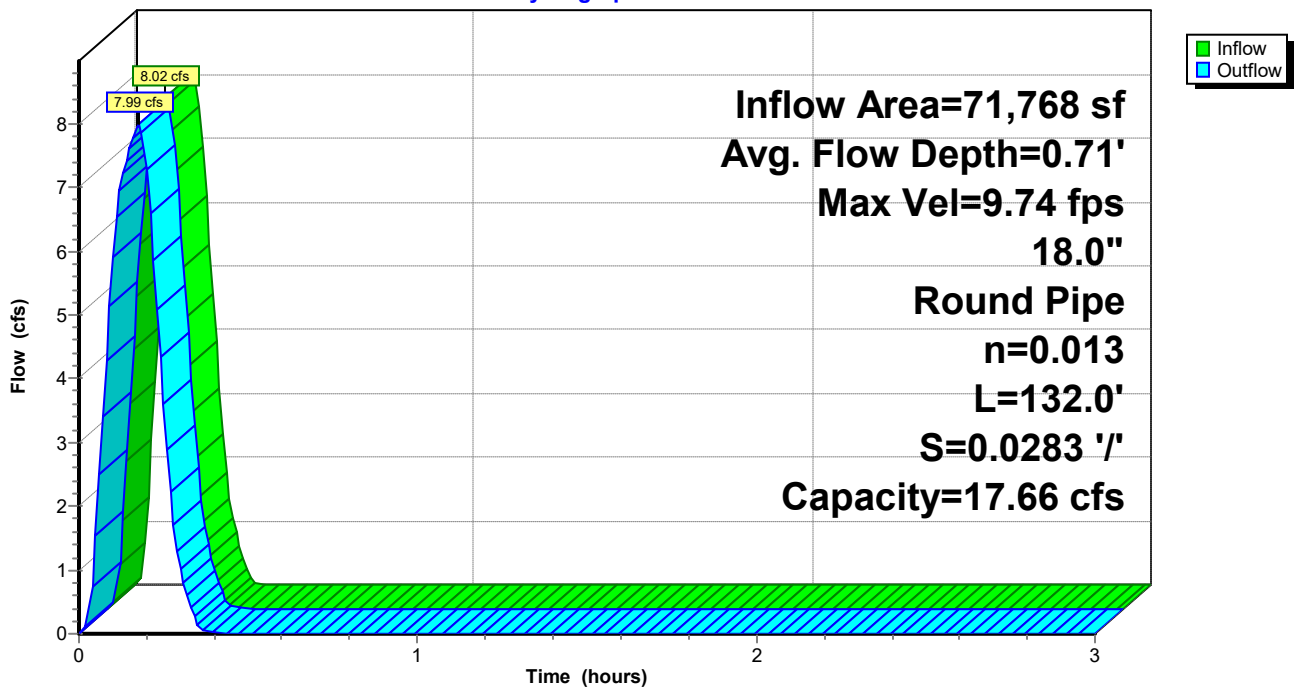
Peak Storage= 108 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.71' , Surface Width= 1.50'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.66 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 132.0' Slope= 0.0283 '/'  
Inlet Invert= 401.03', Outlet Invert= 397.30'



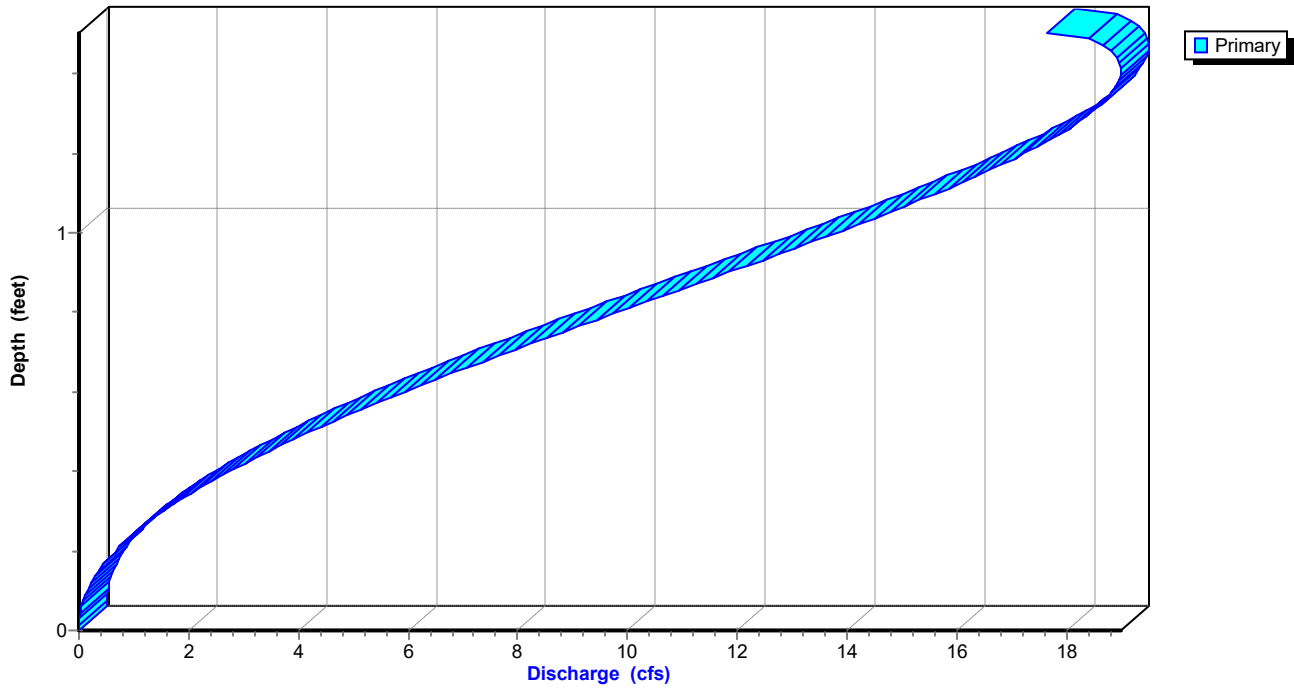
## Reach P-A4: Pipe A4

Hydrograph



### Reach P-A4: Pipe A4

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr*

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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**Stage-Area-Storage for Reach P-A4: Pipe A4**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
401.03	0.0	0	402.07	1.3	173
401.05	0.0	1	402.09	1.3	176
401.07	0.0	2	402.11	1.4	180
401.09	0.0	3	402.13	1.4	183
401.11	0.0	5	402.15	1.4	187
401.13	0.1	7	402.17	1.4	190
401.15	0.1	9	402.19	1.5	194
401.17	0.1	11	402.21	1.5	197
401.19	0.1	13	402.23	1.5	200
401.21	0.1	16	402.25	1.5	203
401.23	0.1	18	402.27	1.6	206
401.25	0.2	21	402.29	1.6	209
401.27	0.2	24	402.31	1.6	212
401.29	0.2	27	402.33	1.6	215
401.31	0.2	30	402.35	1.6	217
401.33	0.3	33	402.37	1.7	220
401.35	0.3	36	402.39	1.7	222
401.37	0.3	40	402.41	1.7	225
401.39	0.3	43	402.43	1.7	227
401.41	0.4	46	402.45	1.7	228
401.43	0.4	50	402.47	1.7	230
401.45	0.4	53	402.49	1.8	232
401.47	0.4	57	402.51	1.8	233
401.49	0.5	61	402.53	<b>1.8</b>	<b>233</b>
401.51	0.5	64			
401.53	0.5	68			
401.55	0.5	72			
401.57	0.6	76			
401.59	0.6	79			
401.61	0.6	83			
401.63	0.7	87			
401.65	0.7	91			
401.67	0.7	95			
401.69	0.7	99			
401.71	0.8	103			
401.73	0.8	107			
401.75	0.8	111			
401.77	0.9	115			
401.79	0.9	119			
401.81	0.9	123			
401.83	1.0	127			
401.85	1.0	130			
401.87	1.0	134			
401.89	1.0	138			
401.91	1.1	142			
401.93	1.1	146			
401.95	1.1	150			
401.97	1.2	154			
401.99	1.2	158			
402.01	1.2	161			
402.03	1.3	165			
402.05	1.3	169			

### Summerwood Gym 3

AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

Prepared by Phillip Lewis Engineering

Printed 1/11/2024

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### Summary for Pond DP1: Re-Established East Pond

Inflow Area = 132,514 sf, 61.41% Impervious, Inflow Depth = 0.83" for 25-yr event  
Inflow = 14.95 cfs @ 0.16 hrs, Volume= 9,164 cf  
Outflow = 7.87 cfs @ 0.22 hrs, Volume= 9,164 cf, Atten= 47%, Lag= 3.8 min  
Primary = 7.87 cfs @ 0.22 hrs, Volume= 9,164 cf  
Routed to Link Post-Dev : APPROX DISCHARGE

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 398.45' @ 0.22 hrs Storage= 4,803 cf

Plug-Flow detention time= 8.8 min calculated for 9,164 cf (100% of inflow)  
Center-of-Mass det. time= 8.7 min ( 17.5 - 8.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	396.00'	8,557 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
396.00	0	0
396.50	250	250
397.00	1,092	1,342
398.00	2,387	3,729
399.00	2,405	6,134
400.00	2,423	8,557

Device	Routing	Invert	Outlet Devices
#1	Primary	399.00'	<b>5.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#2	Primary	396.00'	<b>1.1' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s) 10.0' Crest Height

**Primary OutFlow** Max=7.86 cfs @ 0.22 hrs HW=398.44' (Free Discharge)

1=Sharp-Crested Rectangular Weir ( Controls 0.00 cfs)

2=Sharp-Crested Rectangular Weir (Weir Controls 7.86 cfs @ 5.26 fps)

# Summerwood Gym 3

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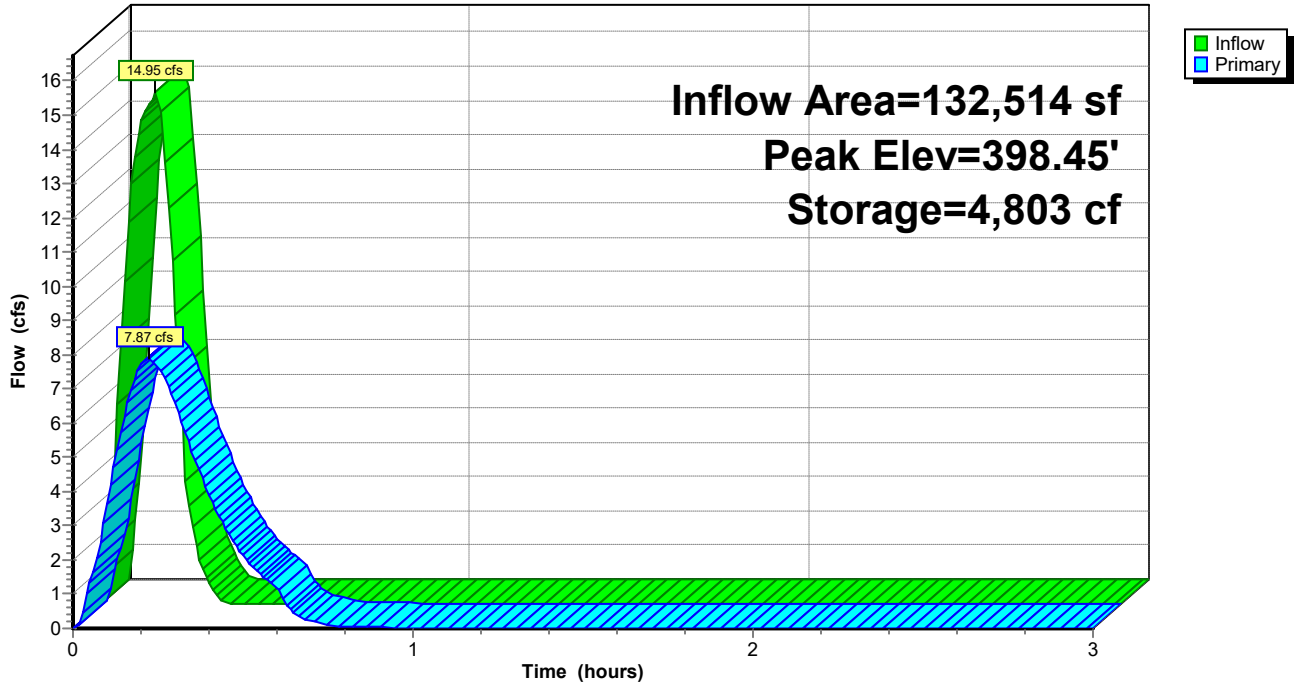
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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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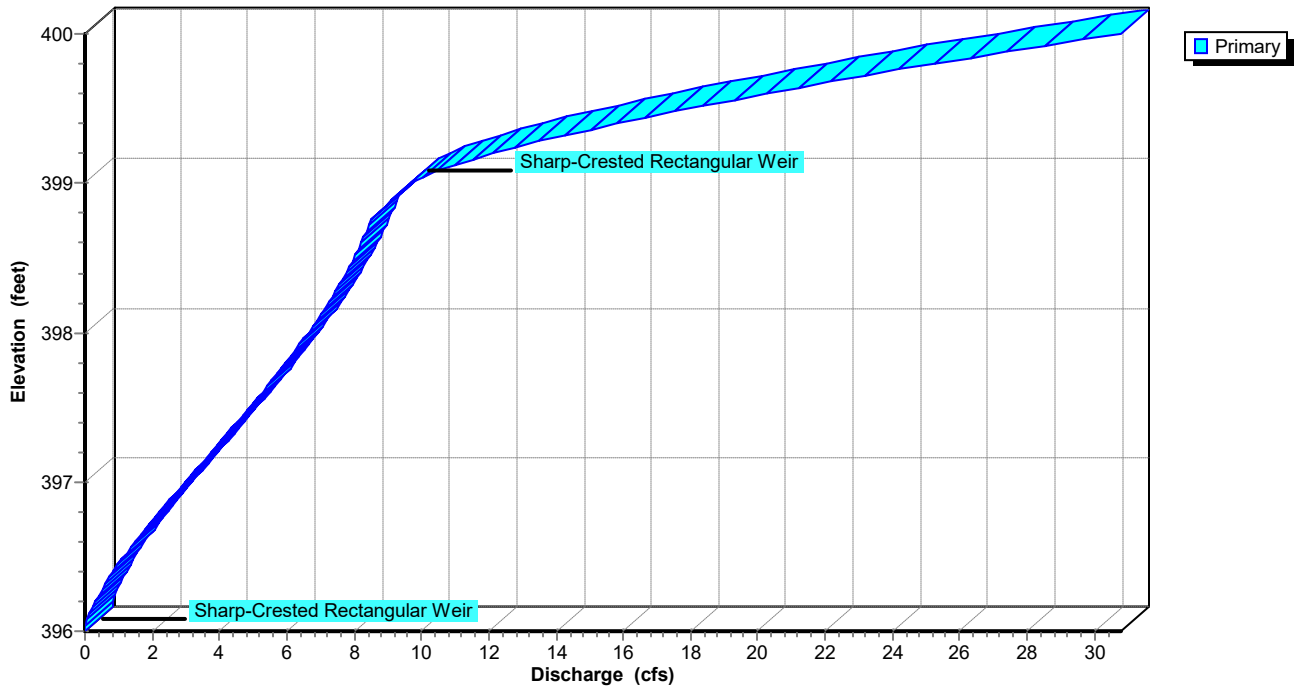
## Pond DP1: Re-Established East Pond

Hydrograph



## Pond DP1: Re-Established East Pond

Stage-Discharge





**Summerwood Gym 3**

Prepared by Phillip Lewis Engineering

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*AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr*

Printed 1/11/2024

**Stage-Area-Storage for Pond DP1: Re-Established East Pond**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
396.00	0	398.60	5,172
396.05	25	398.65	5,292
396.10	50	398.70	5,412
396.15	75	398.75	5,533
396.20	100	398.80	5,653
396.25	125	398.85	5,773
396.30	150	398.90	5,893
396.35	175	398.95	6,014
396.40	200	399.00	6,134
396.45	225	399.05	6,255
396.50	250	399.10	6,376
396.55	359	399.15	6,497
396.60	468	399.20	6,619
396.65	578	399.25	6,740
396.70	687	399.30	6,861
396.75	796	399.35	6,982
396.80	905	399.40	7,103
396.85	1,014	399.45	7,224
396.90	1,124	399.50	7,346
396.95	1,233	399.55	7,467
397.00	1,342	399.60	7,588
397.05	1,461	399.65	7,709
397.10	1,581	399.70	7,830
397.15	1,700	399.75	7,951
397.20	1,819	399.80	8,072
397.25	1,939	399.85	8,194
397.30	2,058	399.90	8,315
397.35	2,177	399.95	8,436
397.40	2,297	400.00	<b>8,557</b>
397.45	2,416		
397.50	2,536		
397.55	2,655		
397.60	2,774		
397.65	2,894		
397.70	3,013		
397.75	3,132		
397.80	3,252		
397.85	3,371		
397.90	3,490		
397.95	3,610		
398.00	3,729		
398.05	3,849		
398.10	3,970		
398.15	4,090		
398.20	4,210		
398.25	4,330		
398.30	4,451		
398.35	4,571		
398.40	4,691		
398.45	4,811		
398.50	4,932		
398.55	5,052		

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

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AR - Little Rock 25-yr Duration=10 min, Inten=6.72 in/hr

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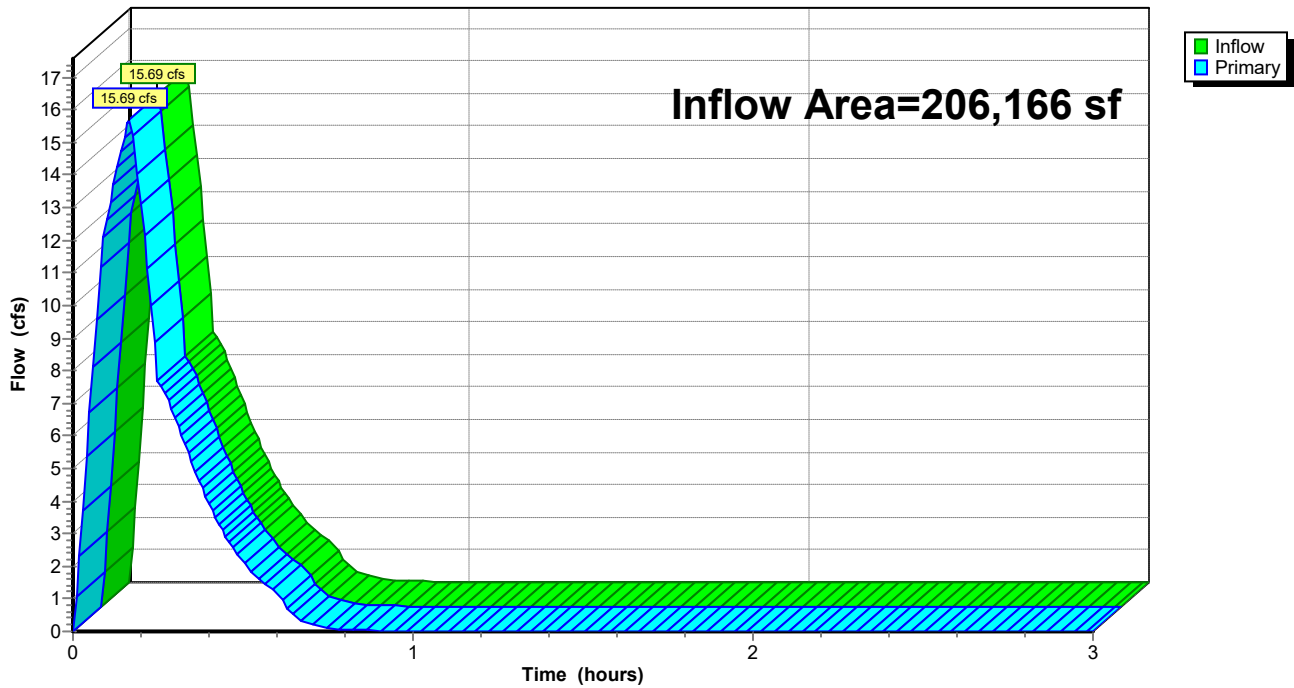
## Summary for Link Post-Dev: APPROX DISCHARGE

Inflow Area = 206,166 sf, 64.42% Impervious, Inflow Depth = 0.85" for 25-yr event  
Inflow = 15.69 cfs @ 0.17 hrs, Volume= 14,548 cf  
Primary = 15.69 cfs @ 0.17 hrs, Volume= 14,548 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post-Dev: APPROX DISCHARGE

Hydrograph



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D1: Drainage Basin D1**

Runoff = 8.18 cfs @ 0.09 hrs, Volume= 4,900 cf, Depth= 1.21"  
 Routed to Link Post-Dev : APPROX DISCHARGE

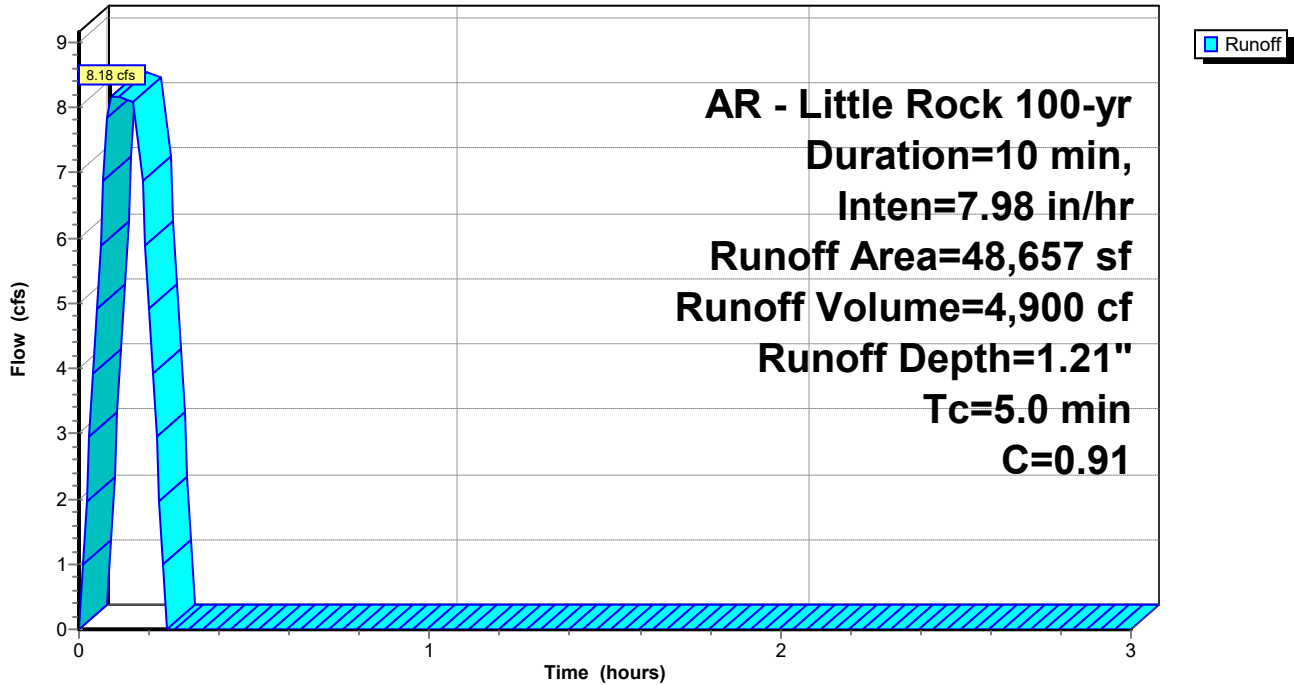
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
3,421	0.40	Sod Yard
45,236	0.95	Road, Drives, Sidewalks
48,657	0.91	Weighted Average
3,421		7.03% Pervious Area
45,236		92.97% Impervious Area

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

**Subcatchment D1: Drainage Basin D1**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D2: Drainage Basin D2**

Runoff = 3.47 cfs @ 0.09 hrs, Volume= 2,080 cf, Depth= 1.02"

Routed to Reach P-A1 : Pipe A1

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

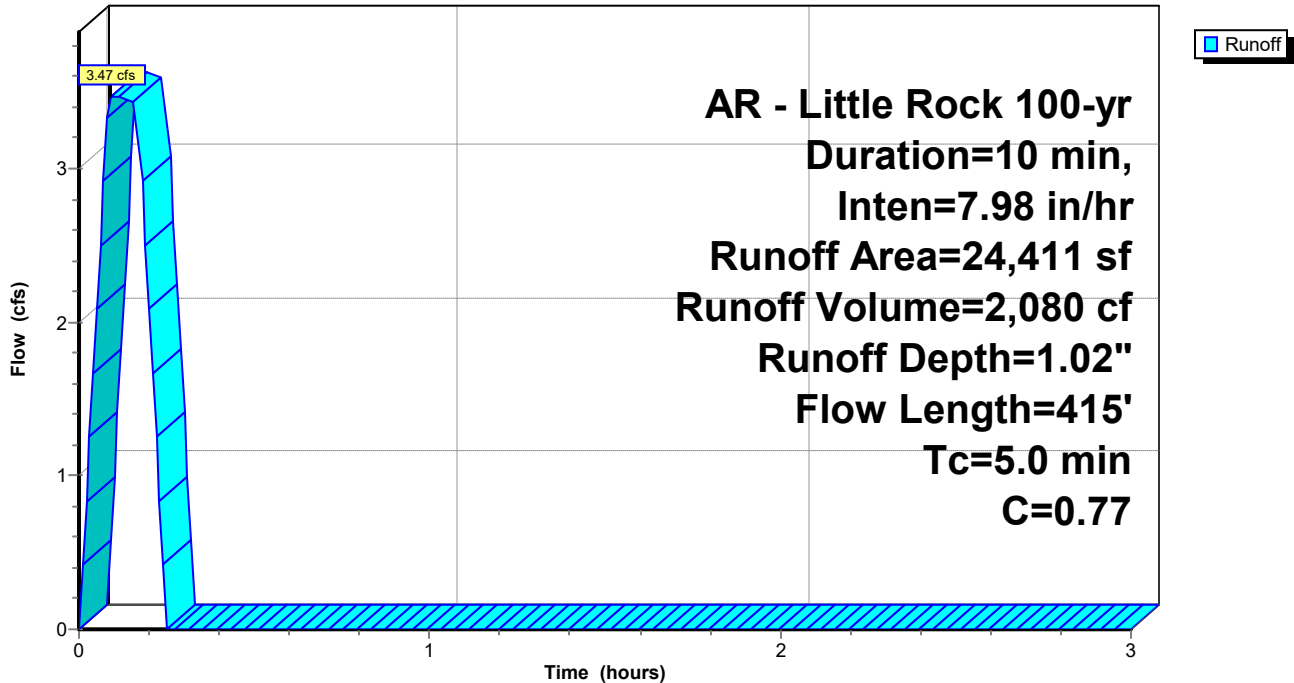
AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
8,845	0.45	Rip Rap Embankment
15,566	0.95	Roof, Drives, Sidewalks
24,411	0.77	Weighted Average
8,845		36.23% Pervious Area
15,566		63.77% Impervious 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 D2: Drainage Basin D2**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D3: Drainage Basin D3**

Runoff = 2.57 cfs @ 0.09 hrs, Volume= 1,540 cf, Depth= 1.21"

Routed to Reach P-A2 : Pipe A2

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

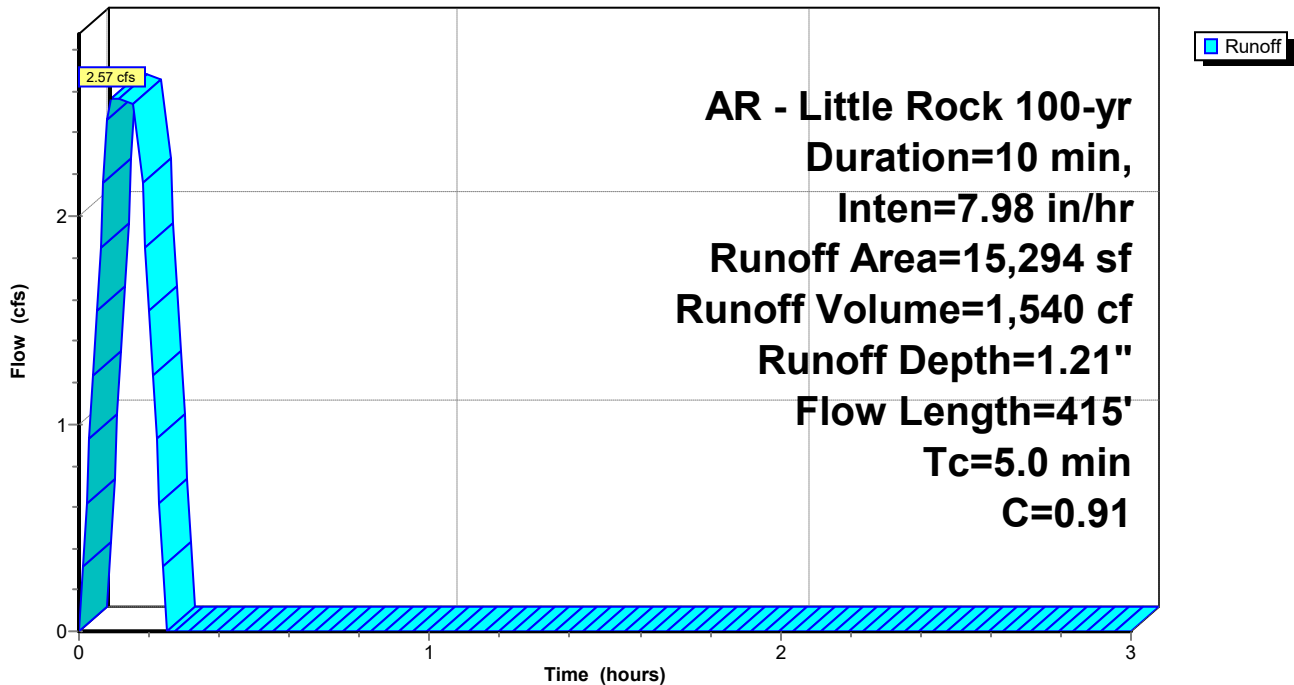
AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
1,065	0.40	Sod Yard
14,229	0.95	Paving, Sidewalks
15,294	0.91	Weighted Average
1,065		6.96% Pervious Area
14,229		93.04% Impervious 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 D3: Drainage Basin D3**

Hydrograph



**Summerwood Gym 3**

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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D4: Drainage Basin D4**

Runoff = 3.55 cfs @ 0.17 hrs, Volume= 2,167 cf, Depth= 0.81"

Routed to Reach P-A3 : Pipe A3

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

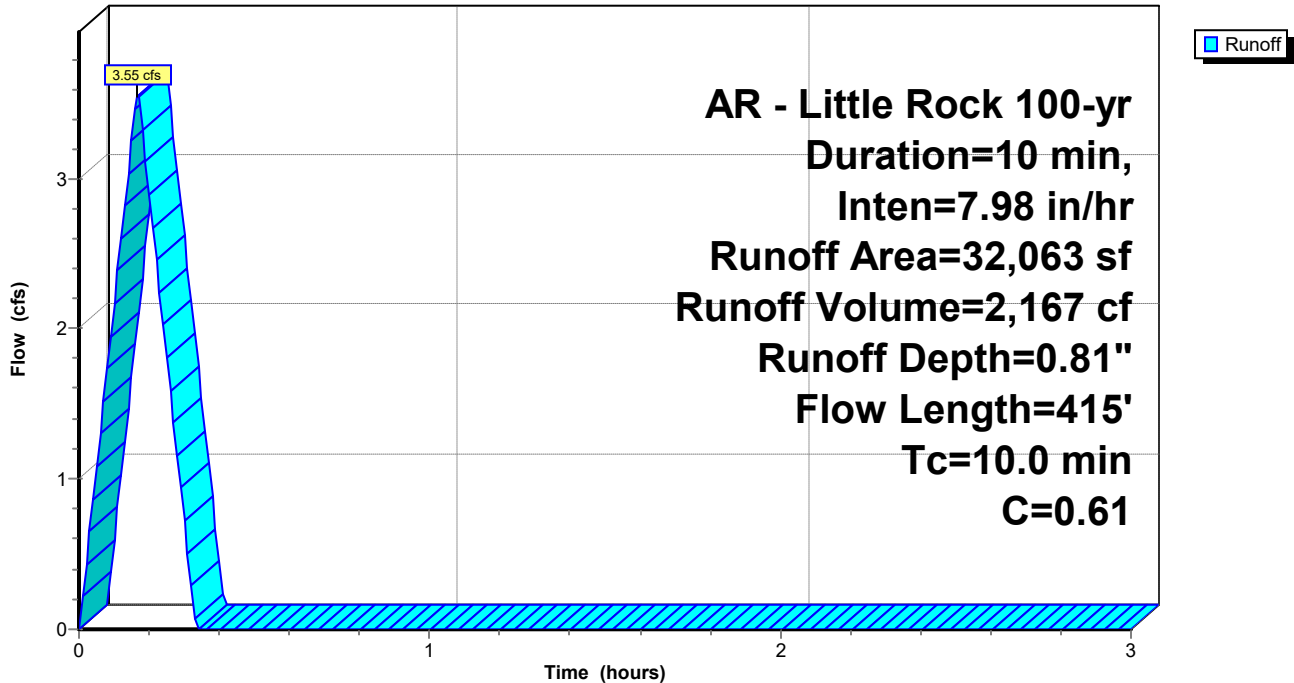
AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
20,032	0.40	
12,031	0.95	
32,063	0.61	Weighted Average
20,032		62.48% Pervious Area
12,031		37.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	415		0.69		Direct Entry, Overland Concentrated Flow (Min)

**Subcatchment D4: Drainage Basin D4**

Hydrograph



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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D5: Drainage Basin D5**

Runoff = 5.15 cfs @ 0.09 hrs, Volume= 3,087 cf, Depth= 0.89"  
 Routed to Pond DP1 : Re-Established East Pond

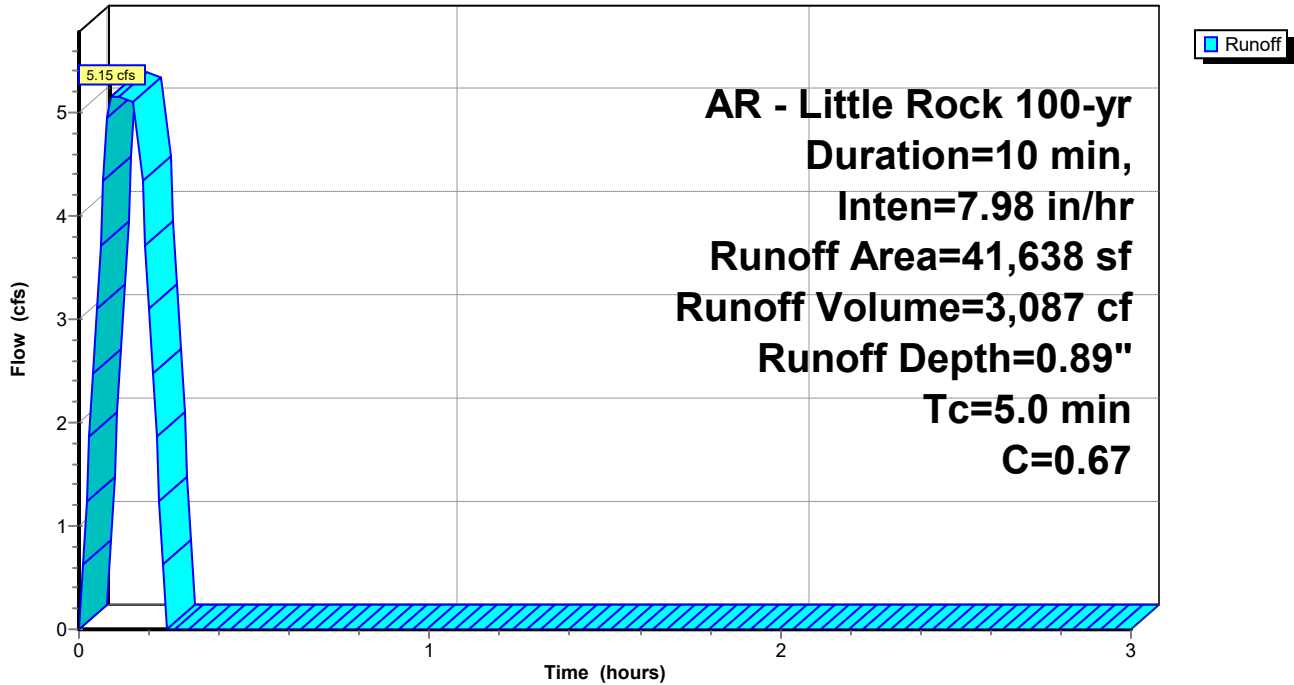
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
21,201	0.40	Sod Yard, Natural Vegetation
20,437	0.95	Paving, Sidewalks
41,638	0.67	Weighted Average
21,201		50.92% Pervious Area
20,437		49.08% Impervious Area

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

**Subcatchment D5: Drainage Basin D5**

Hydrograph



**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D6: Drainage Basin D6**

Runoff = 3.35 cfs @ 0.09 hrs, Volume= 2,009 cf, Depth= 1.26"  
 Routed to Pond DP1 : Re-Established East Pond

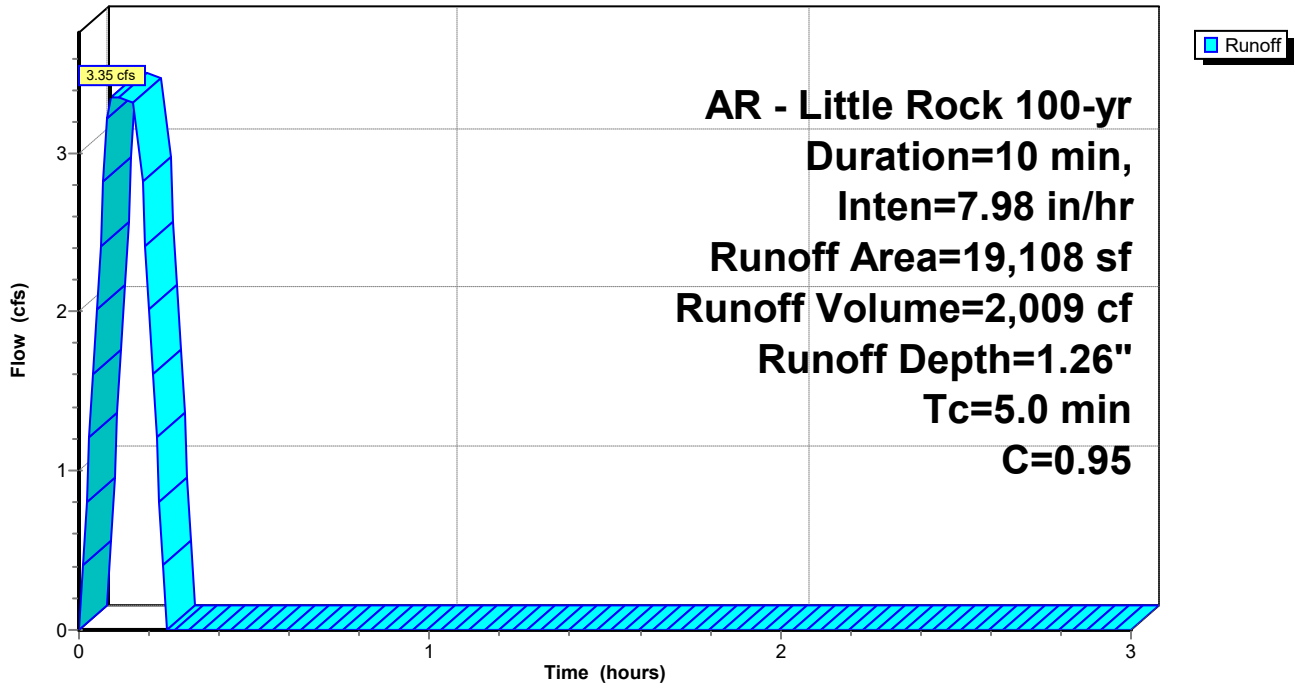
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
19,108	0.95	Roof
19,108		100.00% Impervious Area

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

**Subcatchment D6: Drainage Basin D6**

Hydrograph





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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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**Summary for Subcatchment D7: Drainage Basin D7**

Runoff = 2.49 cfs @ 0.09 hrs, Volume= 1,494 cf, Depth= 0.72"  
 Routed to Link Post-Dev : APPROX DISCHARGE

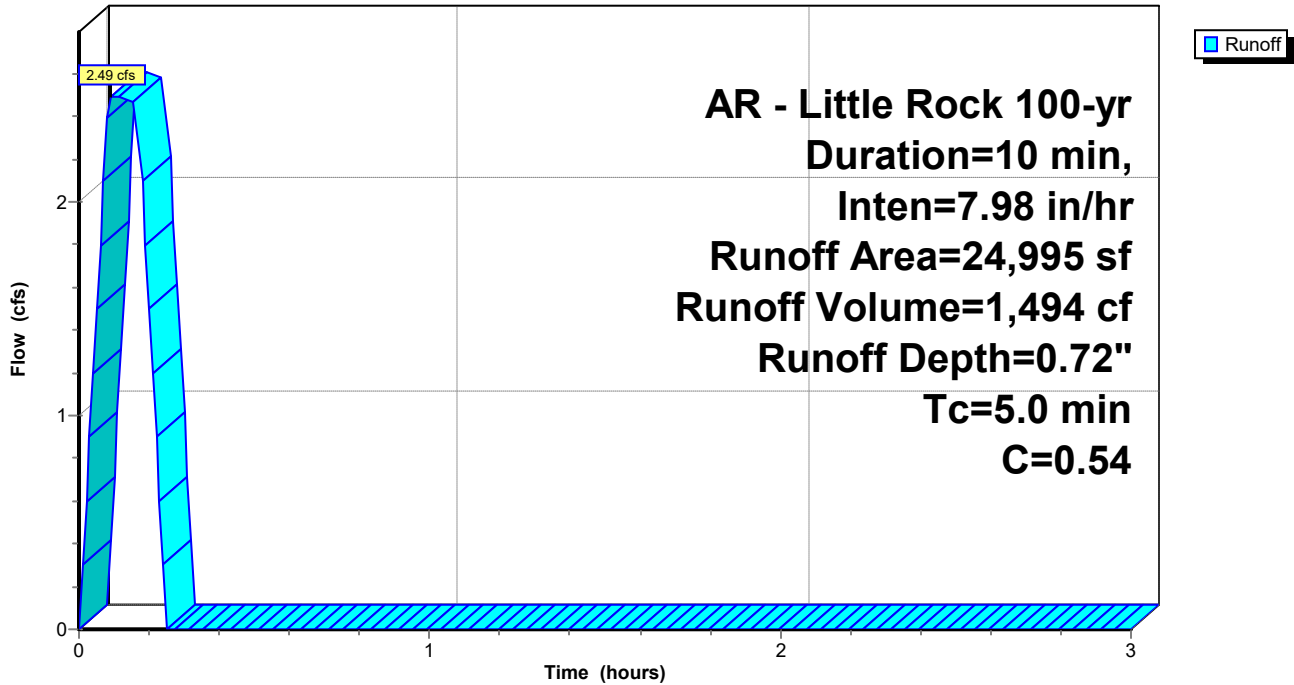
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
 AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Area (sf)	C	Description
18,798	0.40	Sod Yard, Natural Vegetation
6,197	0.95	Paving, Sidewalks
24,995	0.54	Weighted Average
18,798		75.21% Pervious Area
6,197		24.79% Impervious Area

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

**Subcatchment D7: Drainage Basin D7**

Hydrograph



# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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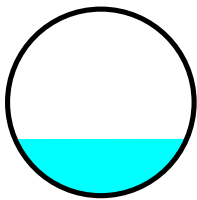
## Summary for Reach P-A1: Pipe A1

Inflow Area = 24,411 sf, 63.77% Impervious, Inflow Depth = 1.02" for 100-yr event  
Inflow = 3.47 cfs @ 0.09 hrs, Volume= 2,080 cf  
Outflow = 3.47 cfs @ 0.11 hrs, Volume= 2,080 cf, Atten= 0%, Lag= 1.2 min  
Routed to Reach P-A2 : Pipe A2

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 7.65 fps, Min. Travel Time= 0.1 min  
Avg. Velocity= 6.08 fps, Avg. Travel Time= 0.1 min

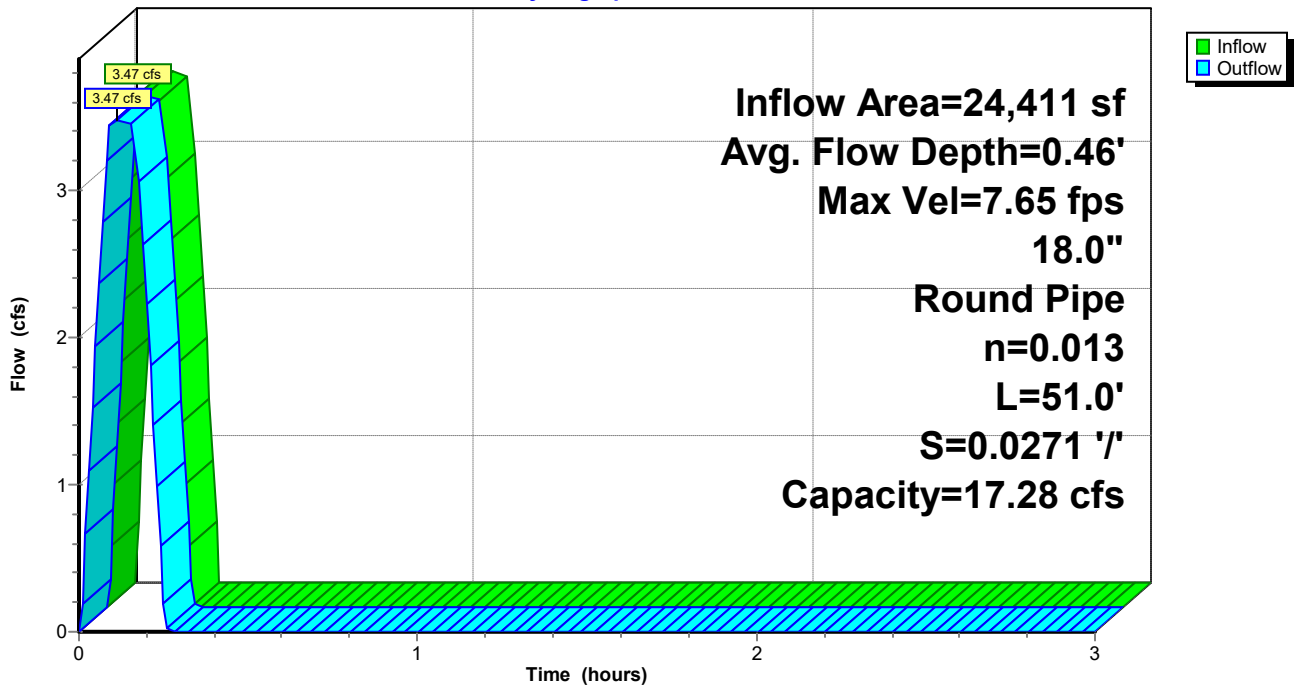
Peak Storage= 23 cf @ 0.09 hrs  
Average Depth at Peak Storage= 0.46' , Surface Width= 1.38'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.28 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 51.0' Slope= 0.0271 '/'  
Inlet Invert= 408.33', Outlet Invert= 406.95'



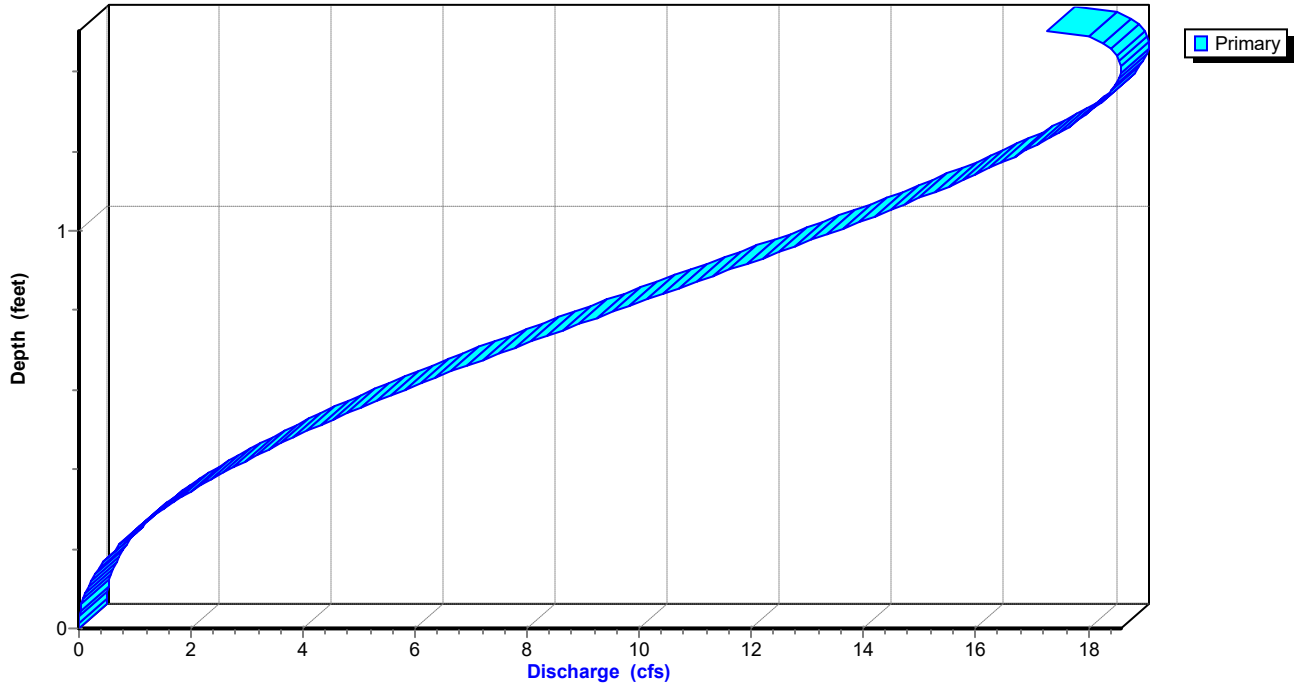
## Reach P-A1: Pipe A1

Hydrograph



### Reach P-A1: Pipe A1

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr*

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**Stage-Area-Storage for Reach P-A1: Pipe A1**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
408.33	0.0	0	409.37	1.3	67
408.35	0.0	0	409.39	1.3	68
408.37	0.0	1	409.41	1.4	69
408.39	0.0	1	409.43	1.4	71
408.41	0.0	2	409.45	1.4	72
408.43	0.1	3	409.47	1.4	73
408.45	0.1	3	409.49	1.5	75
408.47	0.1	4	409.51	1.5	76
408.49	0.1	5	409.53	1.5	77
408.51	0.1	6	409.55	1.5	78
408.53	0.1	7	409.57	1.6	80
408.55	0.2	8	409.59	1.6	81
408.57	0.2	9	409.61	1.6	82
408.59	0.2	10	409.63	1.6	83
408.61	0.2	12	409.65	1.6	84
408.63	0.3	13	409.67	1.7	85
408.65	0.3	14	409.69	1.7	86
408.67	0.3	15	409.71	1.7	87
408.69	0.3	17	409.73	1.7	88
408.71	0.4	18	409.75	1.7	88
408.73	0.4	19	409.77	1.7	89
408.75	0.4	21	409.79	1.8	89
408.77	0.4	22	409.81	1.8	90
408.79	0.5	23	409.83	<b>1.8</b>	<b>90</b>
408.81	0.5	25			
408.83	0.5	26			
408.85	0.5	28			
408.87	0.6	29			
408.89	0.6	31			
408.91	0.6	32			
408.93	0.7	34			
408.95	0.7	35			
408.97	0.7	37			
408.99	0.7	38			
409.01	0.8	40			
409.03	0.8	41			
409.05	0.8	43			
409.07	0.9	44			
409.09	0.9	46			
409.11	0.9	47			
409.13	1.0	49			
409.15	1.0	50			
409.17	1.0	52			
409.19	1.0	53			
409.21	1.1	55			
409.23	1.1	56			
409.25	1.1	58			
409.27	1.2	59			
409.29	1.2	61			
409.31	1.2	62			
409.33	1.3	64			
409.35	1.3	65			

# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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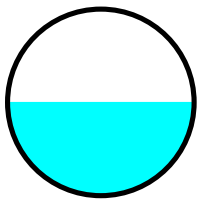
## Summary for Reach P-A2: Pipe A2

Inflow Area = 39,705 sf, 75.04% Impervious, Inflow Depth = 1.09" for 100-yr event  
Inflow = 6.04 cfs @ 0.11 hrs, Volume= 3,620 cf  
Outflow = 6.04 cfs @ 0.15 hrs, Volume= 3,620 cf, Atten= 0%, Lag= 2.4 min  
Routed to Reach P-A3 : Pipe A3

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 6.78 fps, Min. Travel Time= 0.4 min  
Avg. Velocity = 2.68 fps, Avg. Travel Time= 1.1 min

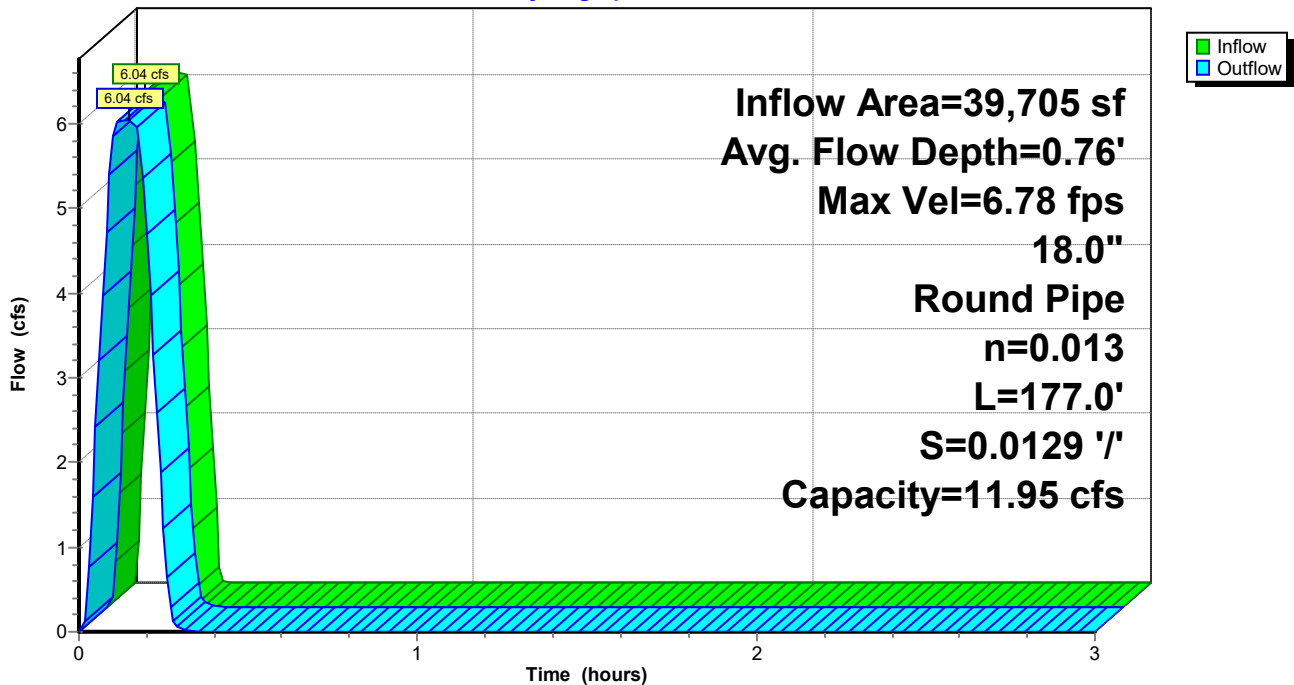
Peak Storage= 158 cf @ 0.12 hrs  
Average Depth at Peak Storage= 0.76' , Surface Width= 1.50'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 11.95 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 177.0' Slope= 0.0129 '/'  
Inlet Invert= 406.85', Outlet Invert= 404.56'



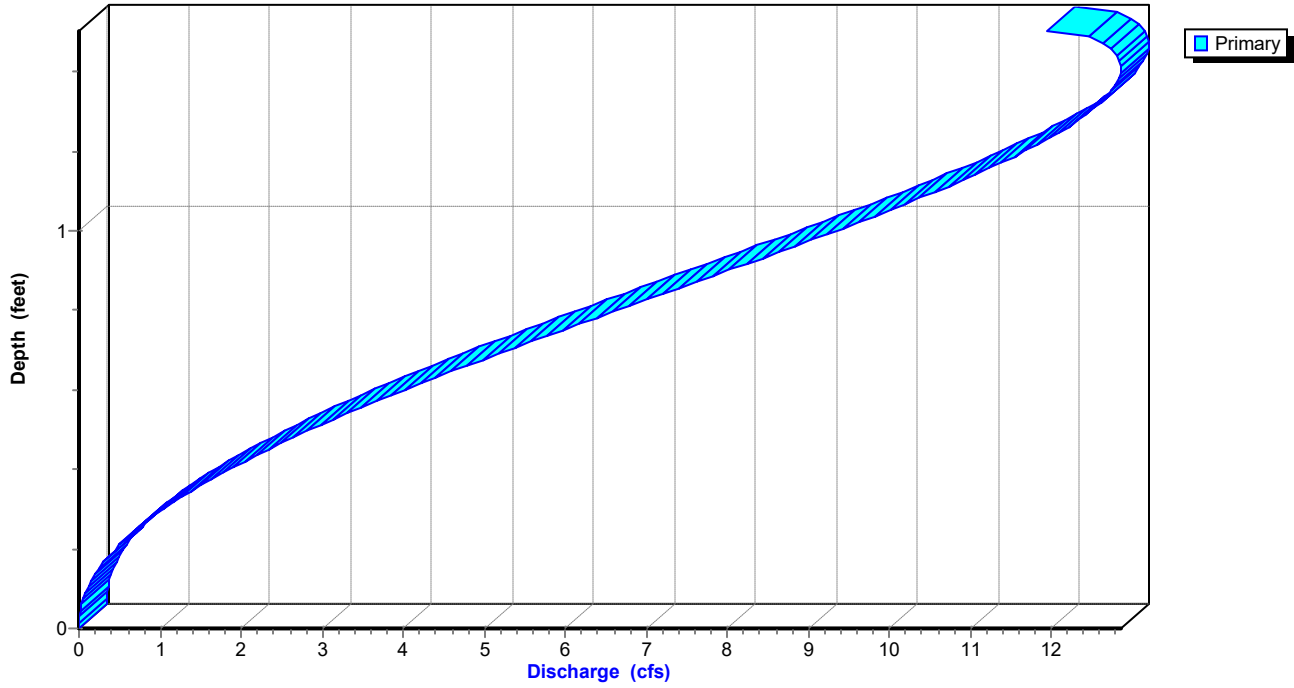
## Reach P-A2: Pipe A2

Hydrograph



### Reach P-A2: Pipe A2

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr*

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**Stage-Area-Storage for Reach P-A2: Pipe A2**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
406.85	0.0	0	407.89	1.3	231
406.87	0.0	1	407.91	1.3	236
406.89	0.0	2	407.93	1.4	241
406.91	0.0	4	407.95	1.4	246
406.93	0.0	6	407.97	1.4	250
406.95	0.1	9	407.99	1.4	255
406.97	0.1	12	408.01	1.5	260
406.99	0.1	15	408.03	1.5	264
407.01	0.1	18	408.05	1.5	268
407.03	0.1	21	408.07	1.5	272
407.05	0.1	25	408.09	1.6	277
407.07	0.2	28	408.11	1.6	280
407.09	0.2	32	408.13	1.6	284
407.11	0.2	36	408.15	1.6	288
407.13	0.2	40	408.17	1.6	292
407.15	0.3	45	408.19	1.7	295
407.17	0.3	49	408.21	1.7	298
407.19	0.3	53	408.23	1.7	301
407.21	0.3	58	408.25	1.7	304
407.23	0.4	62	408.27	1.7	306
407.25	0.4	67	408.29	1.7	309
407.27	0.4	72	408.31	1.8	310
407.29	0.4	76	408.33	1.8	312
407.31	0.5	81	408.35	<b>1.8</b>	<b>313</b>
407.33	0.5	86			
407.35	0.5	91			
407.37	0.5	96			
407.39	0.6	101			
407.41	0.6	106			
407.43	0.6	112			
407.45	0.7	117			
407.47	0.7	122			
407.49	0.7	127			
407.51	0.7	133			
407.53	0.8	138			
407.55	0.8	143			
407.57	0.8	148			
407.59	0.9	154			
407.61	0.9	159			
407.63	0.9	164			
407.65	1.0	170			
407.67	1.0	175			
407.69	1.0	180			
407.71	1.0	185			
407.73	1.1	191			
407.75	1.1	196			
407.77	1.1	201			
407.79	1.2	206			
407.81	1.2	211			
407.83	1.2	216			
407.85	1.3	222			
407.87	1.3	226			

# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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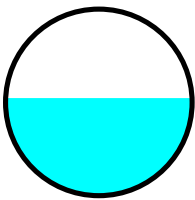
## Summary for Reach P-A3: Pipe A3

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.97" for 100-yr event  
Inflow = 9.59 cfs @ 0.17 hrs, Volume= 5,787 cf  
Outflow = 9.53 cfs @ 0.17 hrs, Volume= 5,787 cf, Atten= 1%, Lag= 0.2 min  
Routed to Reach P-A4 : Pipe A4

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 10.19 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 4.21 fps, Avg. Travel Time= 0.5 min

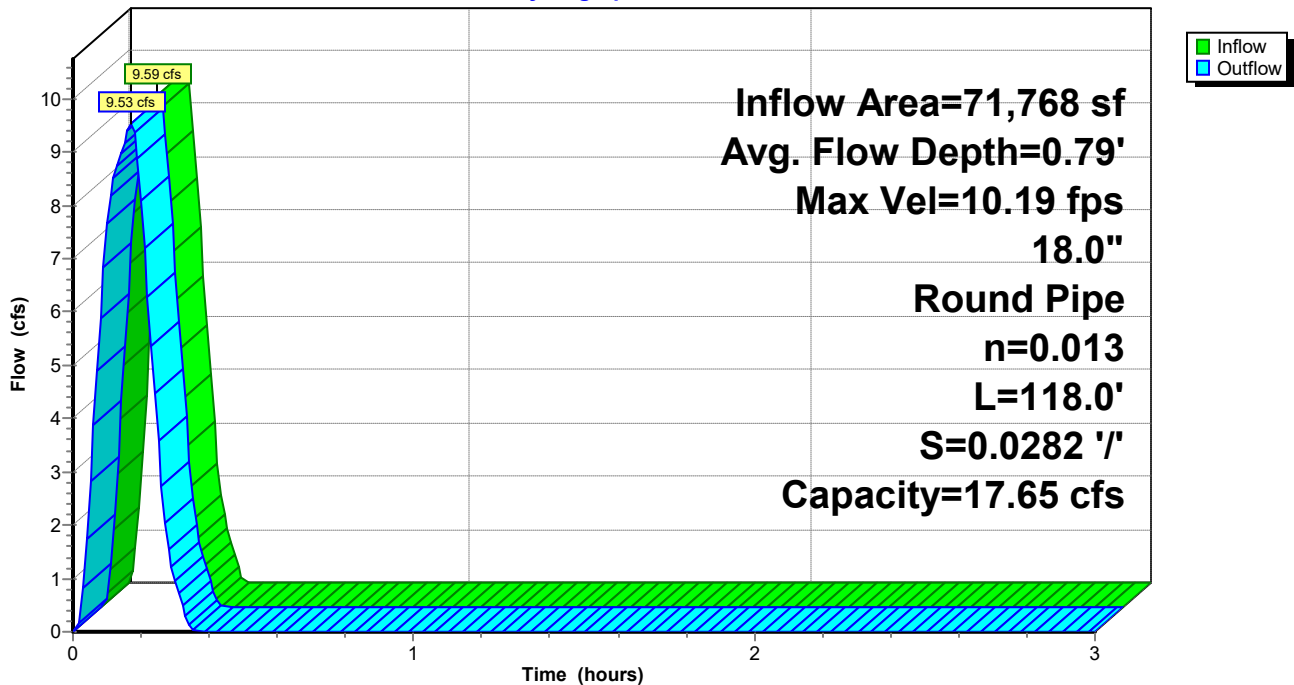
Peak Storage= 111 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.79' , Surface Width= 1.50'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.65 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 118.0' Slope= 0.0282 '/'  
Inlet Invert= 404.46', Outlet Invert= 401.13'



## Reach P-A3: Pipe A3

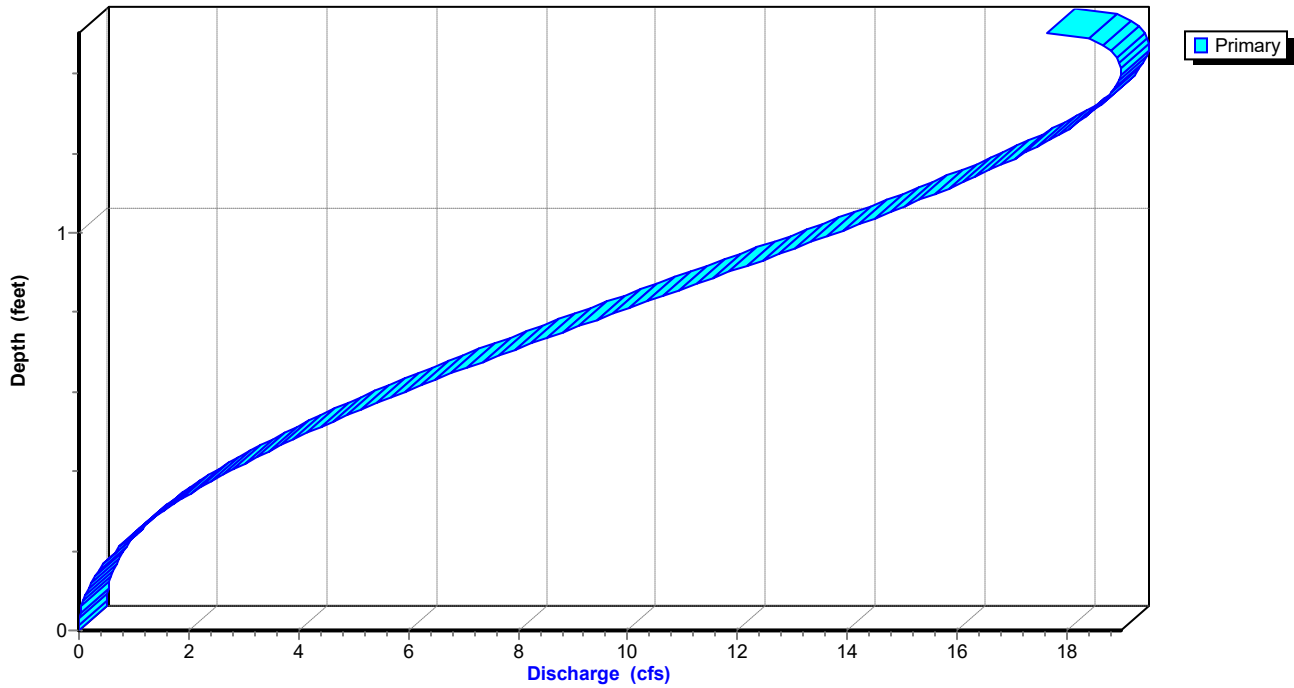
Hydrograph





### Reach P-A3: Pipe A3

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr*

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**Stage-Area-Storage for Reach P-A3: Pipe A3**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
404.46	0.0	0	405.50	1.3	154
404.48	0.0	1	405.52	1.3	158
404.50	0.0	2	405.54	1.4	161
404.52	0.0	3	405.56	1.4	164
404.54	0.0	4	405.58	1.4	167
404.56	0.1	6	405.60	1.4	170
404.58	0.1	8	405.62	1.5	173
404.60	0.1	10	405.64	1.5	176
404.62	0.1	12	405.66	1.5	179
404.64	0.1	14	405.68	1.5	182
404.66	0.1	17	405.70	1.6	184
404.68	0.2	19	405.72	1.6	187
404.70	0.2	22	405.74	1.6	190
404.72	0.2	24	405.76	1.6	192
404.74	0.2	27	405.78	1.6	194
404.76	0.3	30	405.80	1.7	197
404.78	0.3	33	405.82	1.7	199
404.80	0.3	35	405.84	1.7	201
404.82	0.3	38	405.86	1.7	203
404.84	0.4	42	405.88	1.7	204
404.86	0.4	45	405.90	1.7	206
404.88	0.4	48	405.92	1.8	207
404.90	0.4	51	405.94	1.8	208
404.92	0.5	54	405.96	<b>1.8</b>	<b>209</b>
404.94	0.5	58			
404.96	0.5	61			
404.98	0.5	64			
405.00	0.6	68			
405.02	0.6	71			
405.04	0.6	74			
405.06	0.7	78			
405.08	0.7	81			
405.10	0.7	85			
405.12	0.7	88			
405.14	0.8	92			
405.16	0.8	95			
405.18	0.8	99			
405.20	0.9	102			
405.22	0.9	106			
405.24	0.9	110			
405.26	1.0	113			
405.28	1.0	117			
405.30	1.0	120			
405.32	1.0	124			
405.34	1.1	127			
405.36	1.1	131			
405.38	1.1	134			
405.40	1.2	138			
405.42	1.2	141			
405.44	1.2	144			
405.46	1.3	148			
405.48	1.3	151			

# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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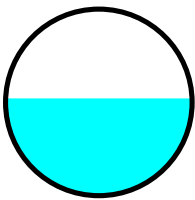
## Summary for Reach P-A4: Pipe A4

Inflow Area = 71,768 sf, 58.28% Impervious, Inflow Depth = 0.97" for 100-yr event  
Inflow = 9.53 cfs @ 0.17 hrs, Volume= 5,787 cf  
Outflow = 9.49 cfs @ 0.18 hrs, Volume= 5,787 cf, Atten= 0%, Lag= 0.4 min  
Routed to Pond DP1 : Re-Established East Pond

Routing by Stor-Ind+Trans method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Max. Velocity= 10.17 fps, Min. Travel Time= 0.2 min  
Avg. Velocity = 4.00 fps, Avg. Travel Time= 0.6 min

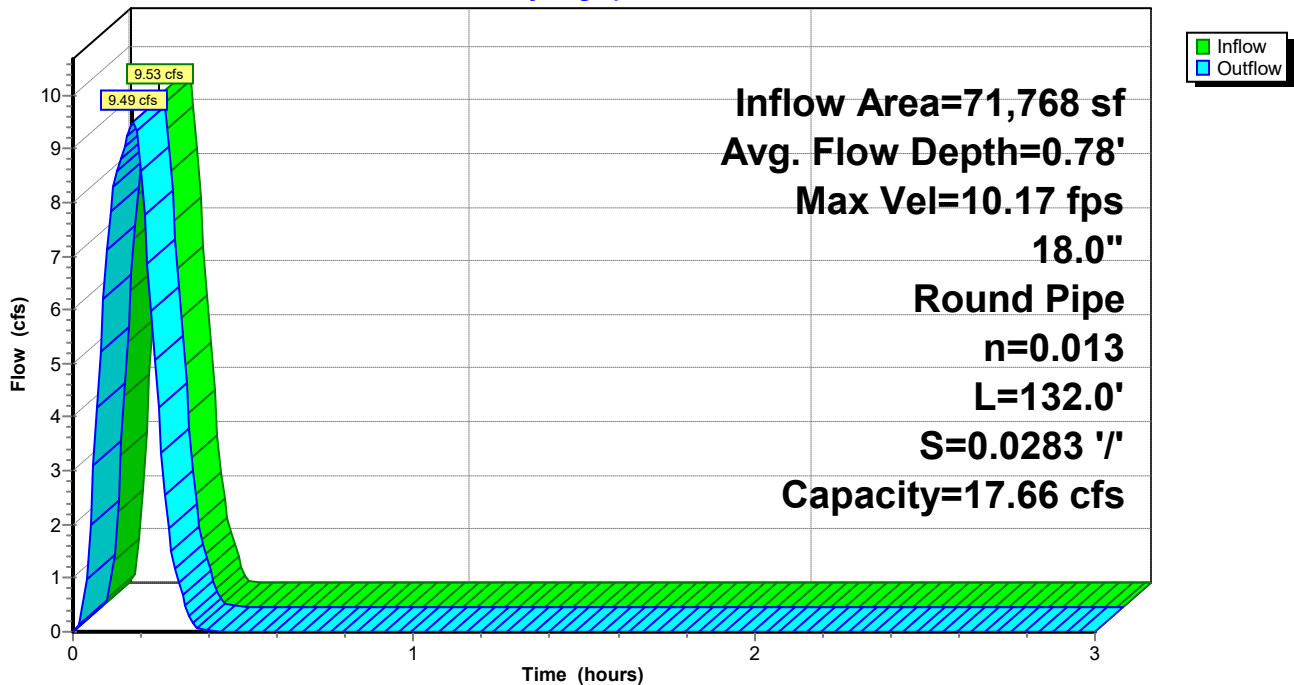
Peak Storage= 123 cf @ 0.17 hrs  
Average Depth at Peak Storage= 0.78' , Surface Width= 1.50'  
Bank-Full Depth= 1.50' Flow Area= 1.8 sf, Capacity= 17.66 cfs

18.0" Round Pipe  
n= 0.013 Corrugated PE, smooth interior  
Length= 132.0' Slope= 0.0283 '/'  
Inlet Invert= 401.03', Outlet Invert= 397.30'



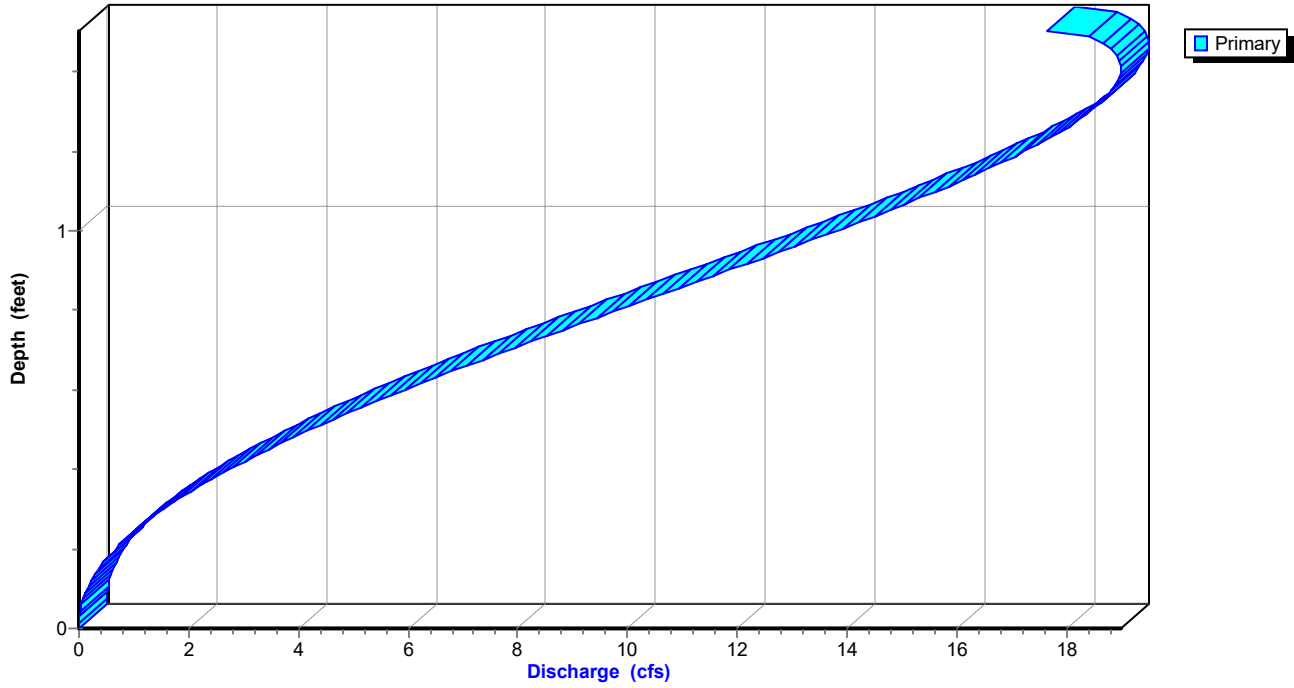
## Reach P-A4: Pipe A4

Hydrograph



### Reach P-A4: Pipe A4

Stage-Discharge



**Summerwood Gym 3***AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr*

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**Stage-Area-Storage for Reach P-A4: Pipe A4**

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)	Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
401.03	0.0	0	402.07	1.3	173
401.05	0.0	1	402.09	1.3	176
401.07	0.0	2	402.11	1.4	180
401.09	0.0	3	402.13	1.4	183
401.11	0.0	5	402.15	1.4	187
401.13	0.1	7	402.17	1.4	190
401.15	0.1	9	402.19	1.5	194
401.17	0.1	11	402.21	1.5	197
401.19	0.1	13	402.23	1.5	200
401.21	0.1	16	402.25	1.5	203
401.23	0.1	18	402.27	1.6	206
401.25	0.2	21	402.29	1.6	209
401.27	0.2	24	402.31	1.6	212
401.29	0.2	27	402.33	1.6	215
401.31	0.2	30	402.35	1.6	217
401.33	0.3	33	402.37	1.7	220
401.35	0.3	36	402.39	1.7	222
401.37	0.3	40	402.41	1.7	225
401.39	0.3	43	402.43	1.7	227
401.41	0.4	46	402.45	1.7	228
401.43	0.4	50	402.47	1.7	230
401.45	0.4	53	402.49	1.8	232
401.47	0.4	57	402.51	1.8	233
401.49	0.5	61	402.53	<b>1.8</b>	<b>233</b>
401.51	0.5	64			
401.53	0.5	68			
401.55	0.5	72			
401.57	0.6	76			
401.59	0.6	79			
401.61	0.6	83			
401.63	0.7	87			
401.65	0.7	91			
401.67	0.7	95			
401.69	0.7	99			
401.71	0.8	103			
401.73	0.8	107			
401.75	0.8	111			
401.77	0.9	115			
401.79	0.9	119			
401.81	0.9	123			
401.83	1.0	127			
401.85	1.0	130			
401.87	1.0	134			
401.89	1.0	138			
401.91	1.1	142			
401.93	1.1	146			
401.95	1.1	150			
401.97	1.2	154			
401.99	1.2	158			
402.01	1.2	161			
402.03	1.3	165			
402.05	1.3	169			

### Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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### Summary for Pond DP1: Re-Established East Pond

Inflow Area = 132,514 sf, 61.41% Impervious, Inflow Depth = 0.99" for 100-yr event  
Inflow = 17.76 cfs @ 0.16 hrs, Volume= 10,883 cf  
Outflow = 9.14 cfs @ 0.22 hrs, Volume= 10,883 cf, Atten= 49%, Lag= 3.8 min  
Primary = 9.14 cfs @ 0.22 hrs, Volume= 10,883 cf  
Routed to Link Post-Dev : APPROX DISCHARGE

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs  
Peak Elev= 398.89' @ 0.22 hrs Storage= 5,867 cf

Plug-Flow detention time= 9.3 min calculated for 10,883 cf (100% of inflow)  
Center-of-Mass det. time= 9.1 min ( 18.0 - 8.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	396.00'	8,557 cf	<b>Custom Stage Data</b> Listed below

Elevation (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
396.00	0	0
396.50	250	250
397.00	1,092	1,342
398.00	2,387	3,729
399.00	2,405	6,134
400.00	2,423	8,557

Device	Routing	Invert	Outlet Devices
#1	Primary	399.00'	<b>5.0' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s)
#2	Primary	396.00'	<b>1.1' long Sharp-Crested Rectangular Weir</b> 2 End Contraction(s) 10.0' Crest Height

**Primary OutFlow** Max=9.13 cfs @ 0.22 hrs HW=398.89' (Free Discharge)

1=Sharp-Crested Rectangular Weir ( Controls 0.00 cfs)

2=Sharp-Crested Rectangular Weir (Weir Controls 9.13 cfs @ 5.75 fps)

# Summerwood Gym 3

Prepared by Phillip Lewis Engineering

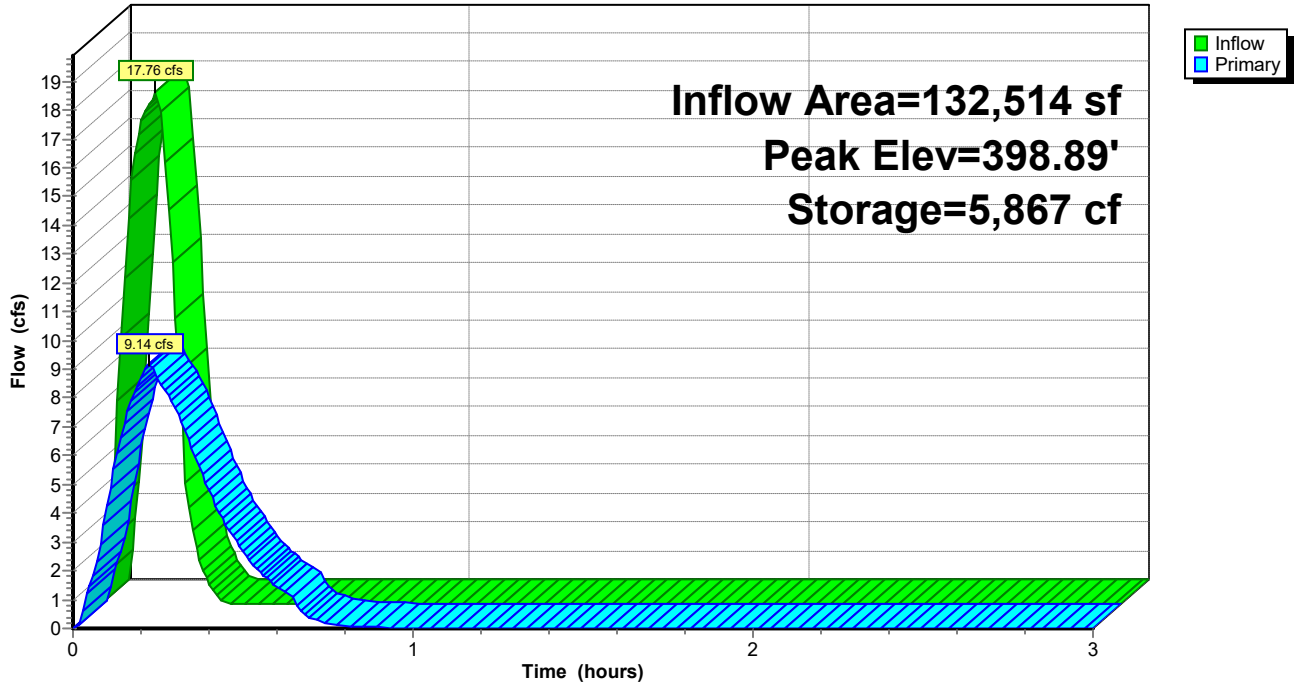
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AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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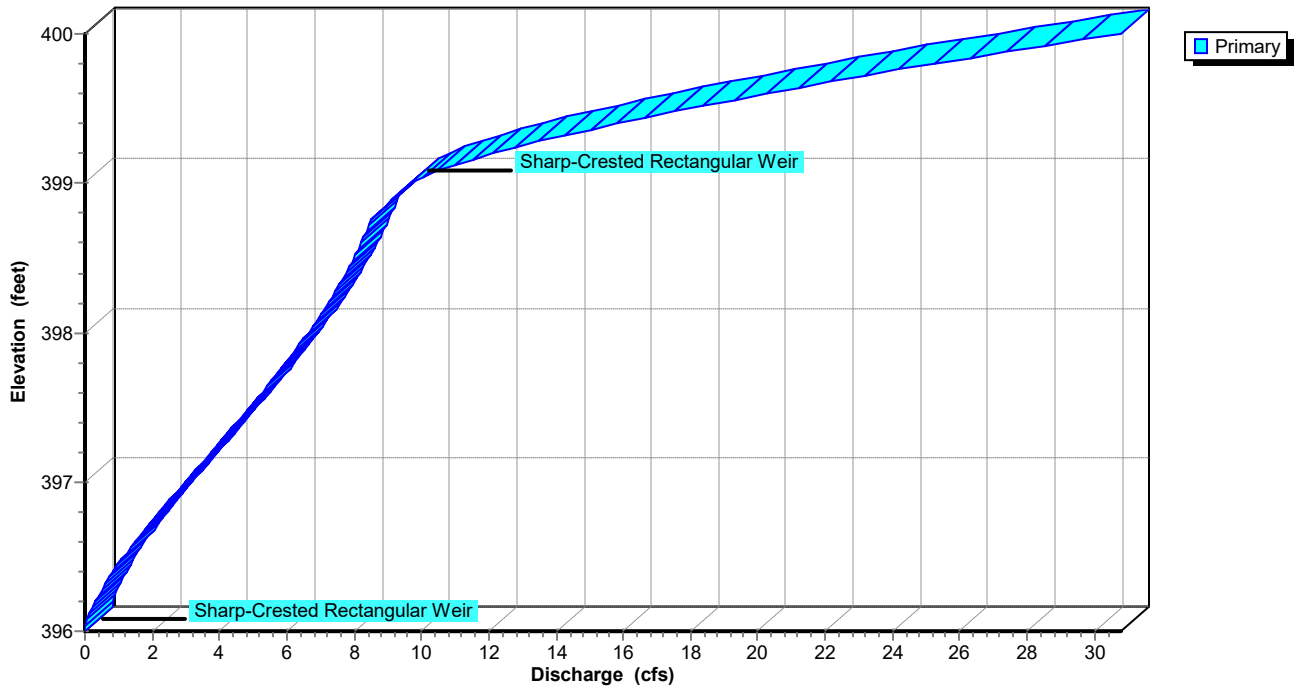
## Pond DP1: Re-Established East Pond

Hydrograph



## Pond DP1: Re-Established East Pond

Stage-Discharge





**Summerwood Gym 3**

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

Prepared by Phillip Lewis Engineering

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**Stage-Area-Storage for Pond DP1: Re-Established East Pond**

Elevation (feet)	Storage (cubic-feet)	Elevation (feet)	Storage (cubic-feet)
396.00	0	398.60	5,172
396.05	25	398.65	5,292
396.10	50	398.70	5,412
396.15	75	398.75	5,533
396.20	100	398.80	5,653
396.25	125	398.85	5,773
396.30	150	398.90	5,893
396.35	175	398.95	6,014
396.40	200	399.00	6,134
396.45	225	399.05	6,255
396.50	250	399.10	6,376
396.55	359	399.15	6,497
396.60	468	399.20	6,619
396.65	578	399.25	6,740
396.70	687	399.30	6,861
396.75	796	399.35	6,982
396.80	905	399.40	7,103
396.85	1,014	399.45	7,224
396.90	1,124	399.50	7,346
396.95	1,233	399.55	7,467
397.00	1,342	399.60	7,588
397.05	1,461	399.65	7,709
397.10	1,581	399.70	7,830
397.15	1,700	399.75	7,951
397.20	1,819	399.80	8,072
397.25	1,939	399.85	8,194
397.30	2,058	399.90	8,315
397.35	2,177	399.95	8,436
397.40	2,297	400.00	<b>8,557</b>
397.45	2,416		
397.50	2,536		
397.55	2,655		
397.60	2,774		
397.65	2,894		
397.70	3,013		
397.75	3,132		
397.80	3,252		
397.85	3,371		
397.90	3,490		
397.95	3,610		
398.00	3,729		
398.05	3,849		
398.10	3,970		
398.15	4,090		
398.20	4,210		
398.25	4,330		
398.30	4,451		
398.35	4,571		
398.40	4,691		
398.45	4,811		
398.50	4,932		
398.55	5,052		

# Summerwood Gym 3

AR - Little Rock 100-yr Duration=10 min, Inten=7.98 in/hr

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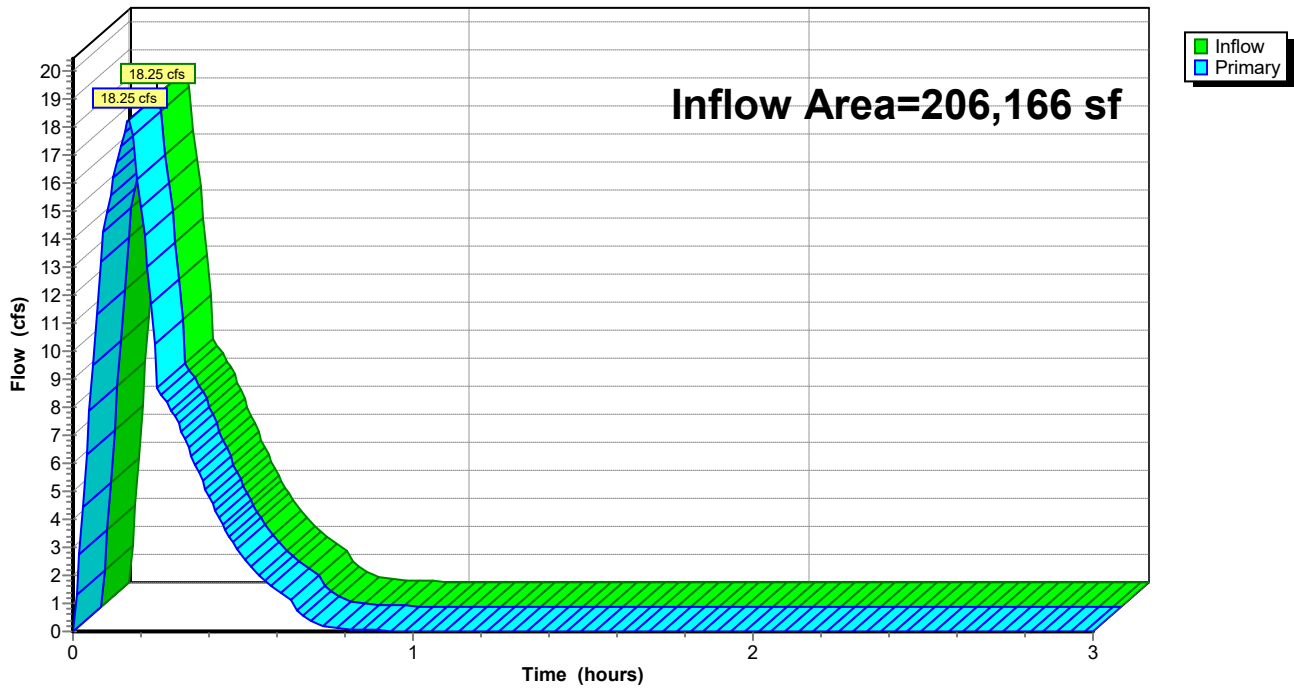
## Summary for Link Post-Dev: APPROX DISCHARGE

Inflow Area = 206,166 sf, 64.42% Impervious, Inflow Depth = 1.01" for 100-yr event  
Inflow = 18.25 cfs @ 0.16 hrs, Volume= 17,276 cf  
Primary = 18.25 cfs @ 0.16 hrs, Volume= 17,276 cf, Atten= 0%, Lag= 0.0 min

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

## Link Post-Dev: APPROX DISCHARGE

Hydrograph



## STROM SEWER SIZING

# Inlet Report

## AI-A2

### Drop Grate Inlet

Location	= Sag
Curb Length (ft)	= -0-
Throat Height (in)	= -0-
Grate Area (sqft)	= 2.00
Grate Width (ft)	= 2.00
Grate Length (ft)	= 2.00

### Gutter

Slope, Sw (ft/ft)	= 0.050
Slope, Sx (ft/ft)	= 0.050
Local Depr (in)	= -0-
Gutter Width (ft)	= 2.00
Gutter Slope (%)	= -0-
Gutter n-value	= -0-

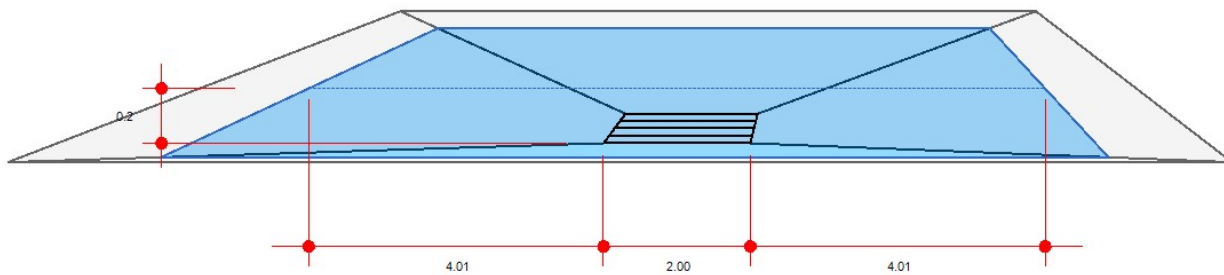
### Calculations

Compute by:	Known Q
Q (cfs)	= 2.16

### Highlighted

Q Total (cfs)	= 2.16
Q Capt (cfs)	= 2.16
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 2.41
Efficiency (%)	= 100
Gutter Spread (ft)	= 10.03
Gutter Vel (ft/s)	= -0-
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-

All dimensions in feet



# Inlet Report

## AI-A3

### Drop Grate Inlet

Location	= Sag
Curb Length (ft)	= -0-
Throat Height (in)	= -0-
Grate Area (sqft)	= 2.00
Grate Width (ft)	= 2.00
Grate Length (ft)	= 2.00

### Gutter

Slope, Sw (ft/ft)	= 0.050
Slope, Sx (ft/ft)	= 0.050
Local Depr (in)	= -0-
Gutter Width (ft)	= 2.00
Gutter Slope (%)	= -0-
Gutter n-value	= -0-

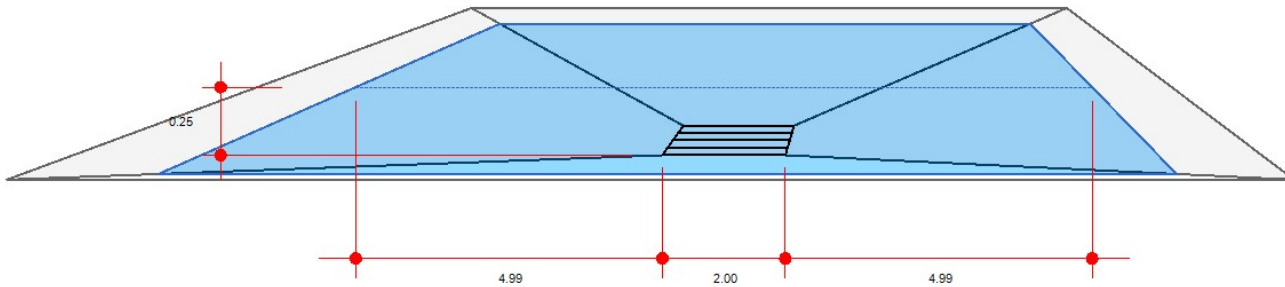
### Calculations

Compute by:	Known Q
Q (cfs)	= 2.99

### Highlighted

Q Total (cfs)	= 2.99
Q Capt (cfs)	= 2.99
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 2.99
Efficiency (%)	= 100
Gutter Spread (ft)	= 11.97
Gutter Vel (ft/s)	= -0-
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-

All dimensions in feet



# Channel Report

## Pipe A1

### Circular

Diameter (ft) = 1.50

Invert Elev (ft) = 408.33

Slope (%) = 2.70

N-Value = 0.015

### Calculations

Compute by: Known Q

Known Q (cfs) = 2.92

### Highlighted

Depth (ft) = 0.45

Q (cfs) = 2.920

Area (sqft) = 0.45

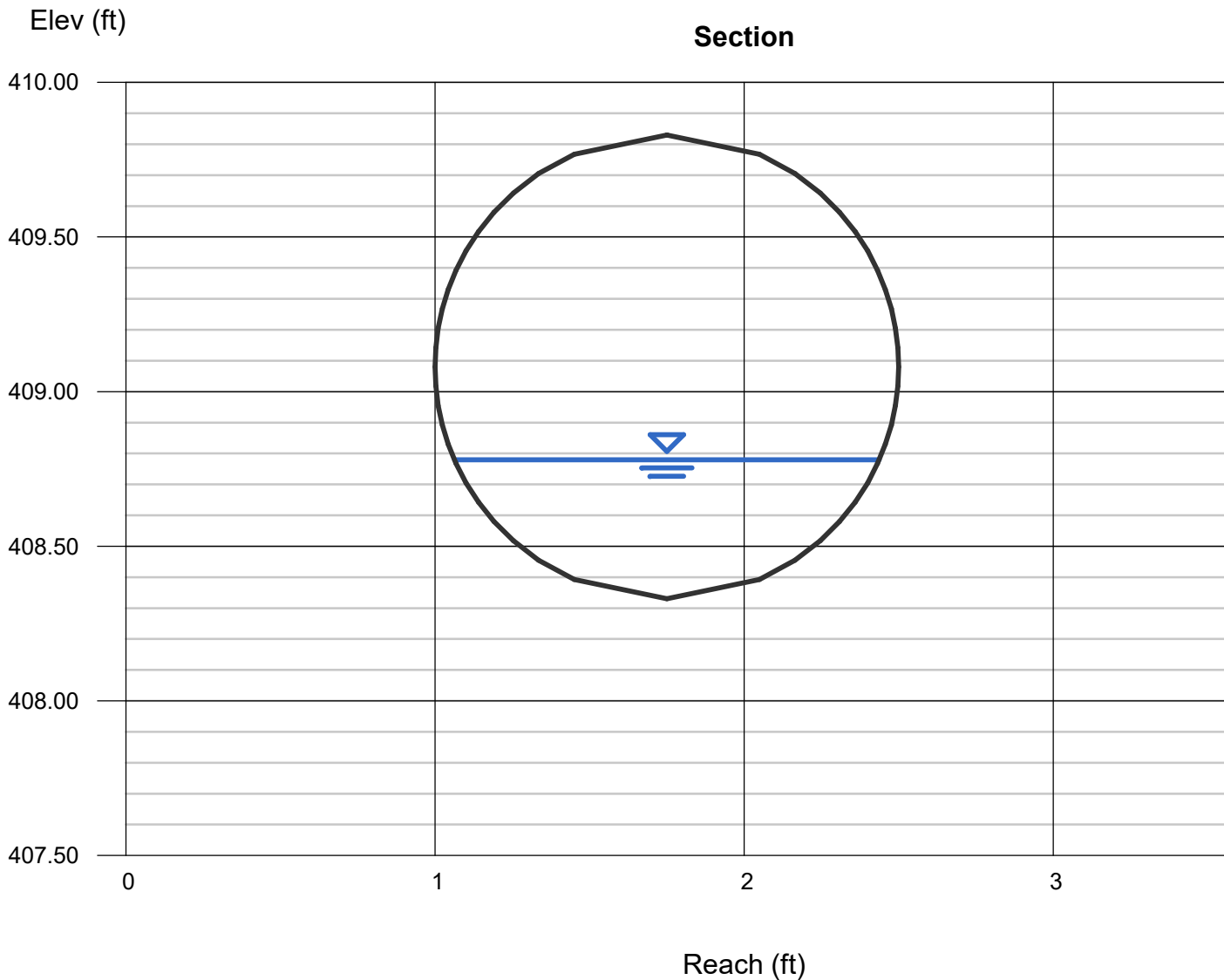
Velocity (ft/s) = 6.54

Wetted Perim (ft) = 1.74

Crit Depth, Yc (ft) = 0.65

Top Width (ft) = 1.38

EGL (ft) = 1.11



# Channel Report

## Pipe A2

### Circular

Diameter (ft) = 1.50

Invert Elev (ft) = 406.85

Slope (%) = 1.30

N-Value = 0.015

### Calculations

Compute by: Known Q

Known Q (cfs) = 5.09

### Highlighted

Depth (ft) = 0.74

Q (cfs) = 5.090

Area (sqft) = 0.87

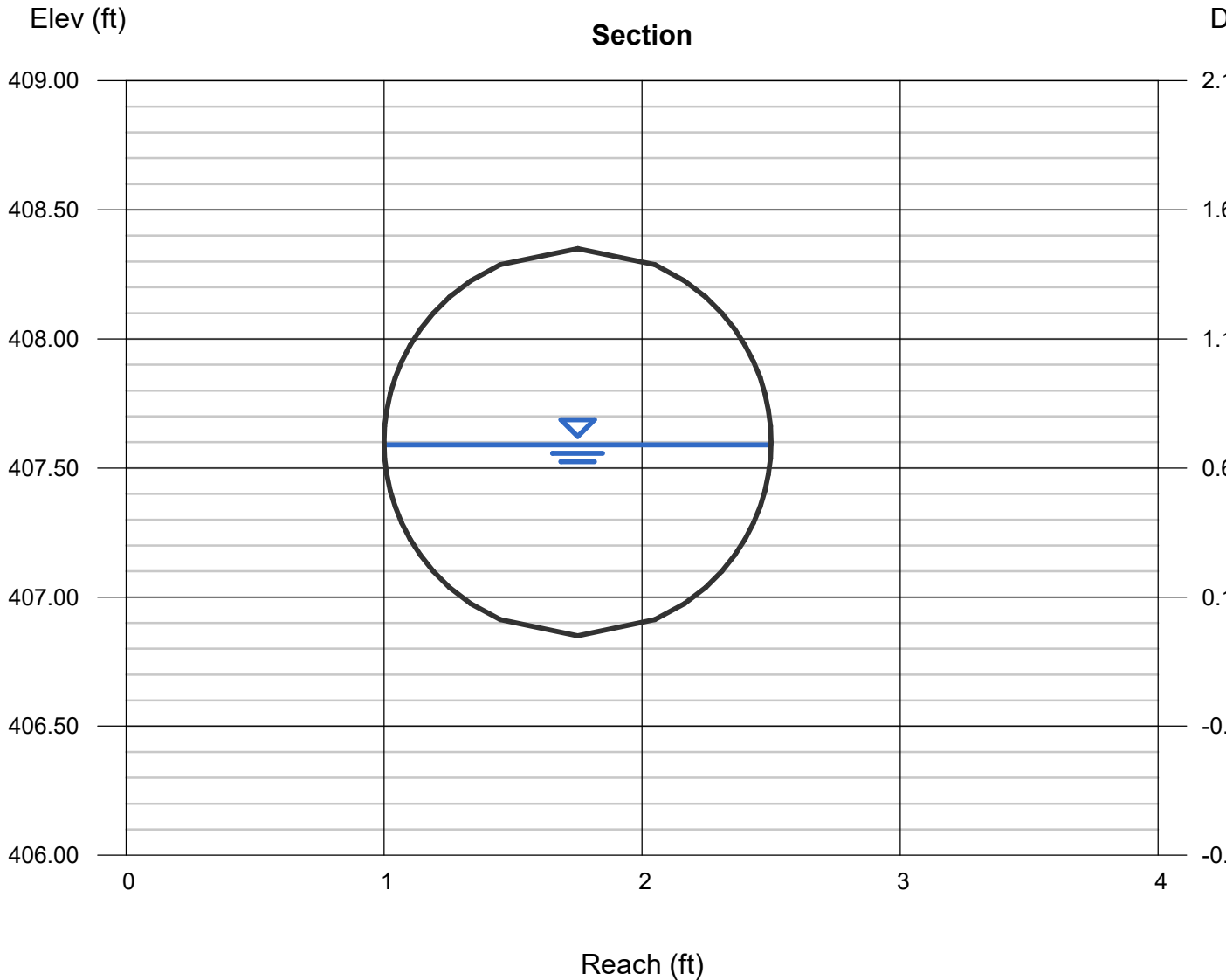
Velocity (ft/s) = 5.84

Wetted Perim (ft) = 2.34

Crit Depth,  $Y_c$  (ft) = 0.87

Top Width (ft) = 1.50

EGL (ft) = 1.27





# Channel Report

## Pipe A3

### Circular

Diameter (ft) = 1.50

Invert Elev (ft) = 404.46

Slope (%) = 2.80

N-Value = 0.015

### Calculations

Compute by: Known Q

Known Q (cfs) = 8.02

### Highlighted

Depth (ft) = 0.78

Q (cfs) = 8.020

Area (sqft) = 0.93

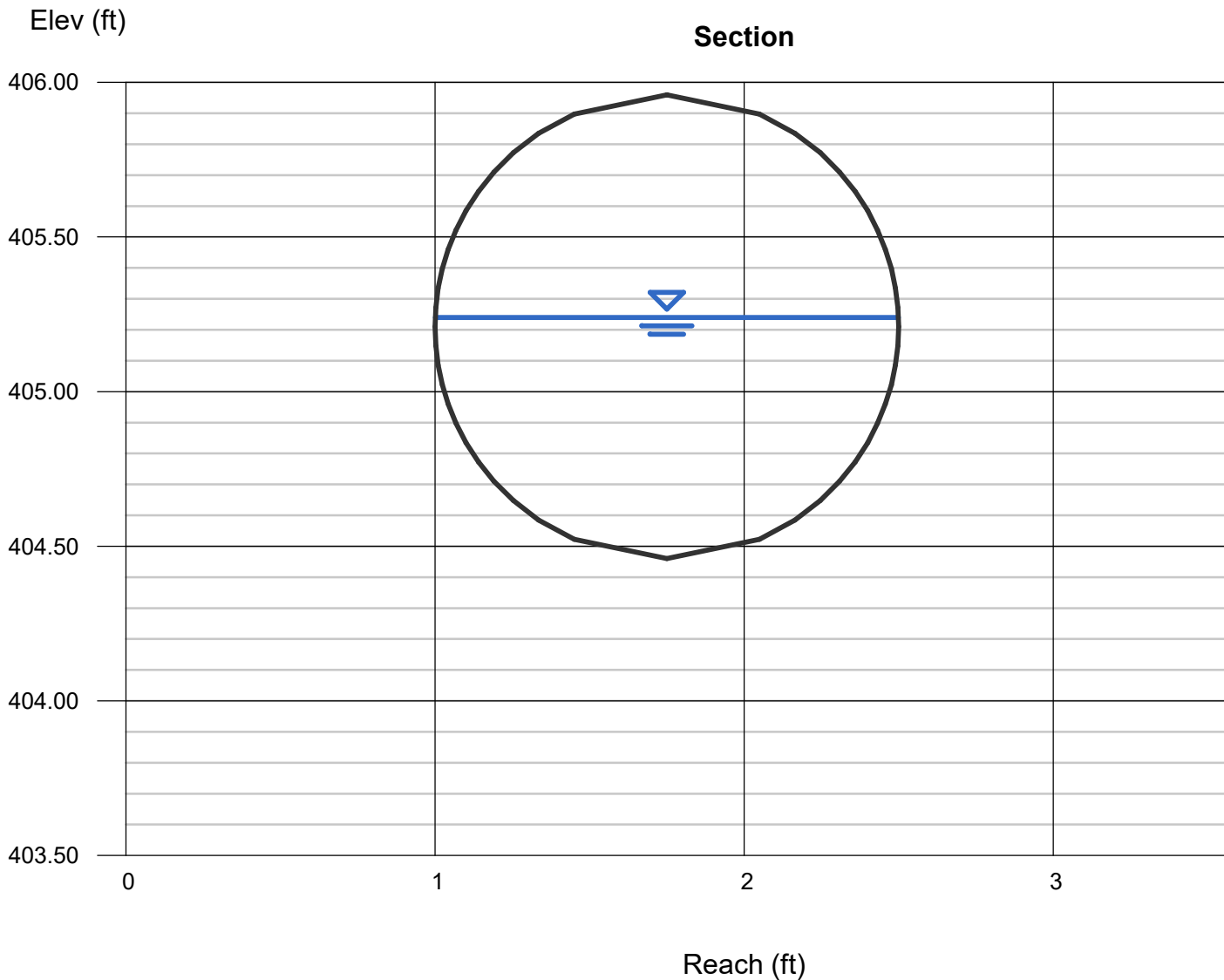
Velocity (ft/s) = 8.59

Wetted Perim (ft) = 2.42

Crit Depth,  $Y_c$  (ft) = 1.10

Top Width (ft) = 1.50

EGL (ft) = 1.93



# Channel Report

## Pipe A4

### Circular

Diameter (ft) = 1.50

Invert Elev (ft) = 401.03

Slope (%) = 2.83

N-Value = 0.013

### Calculations

Compute by: Known Q

Known Q (cfs) = 8.02

### Highlighted

Depth (ft) = 0.71

Q (cfs) = 8.020

Area (sqft) = 0.83

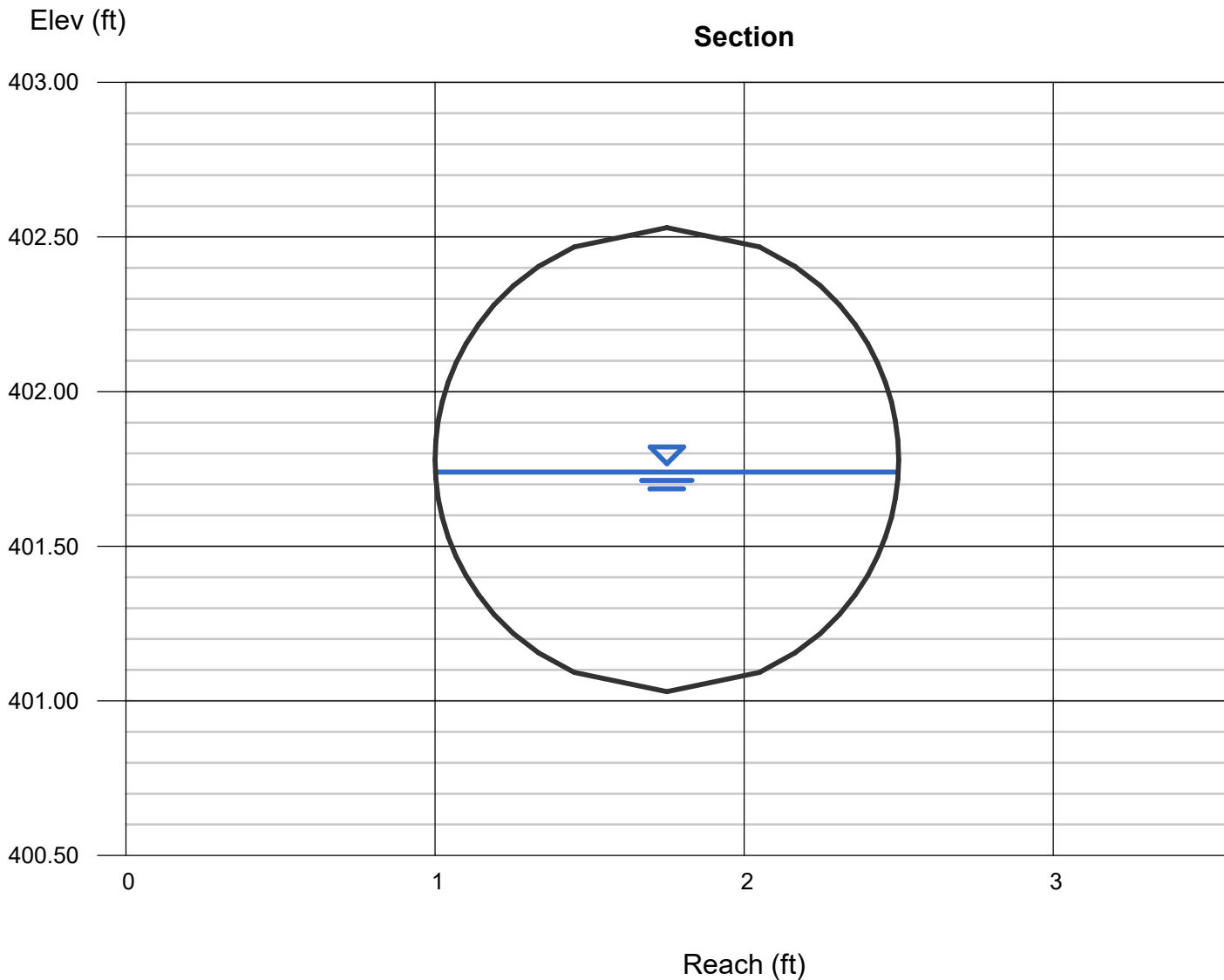
Velocity (ft/s) = 9.70

Wetted Perim (ft) = 2.28

Crit Depth, Yc (ft) = 1.10

Top Width (ft) = 1.50

EGL (ft) = 2.17



# Channel Report

## 5' Curb Cut & Flume to Pond

### Rectangular

Bottom Width (ft) = 5.00

Total Depth (ft) = 0.50

Invert Elev (ft) = 401.50

Slope (%) = 15.00

N-Value = 0.015

### Calculations

Compute by: Known Q

Known Q (cfs) = 5.15

### Highlighted

Depth (ft) = 0.12

Q (cfs) = 5.150

Area (sqft) = 0.60

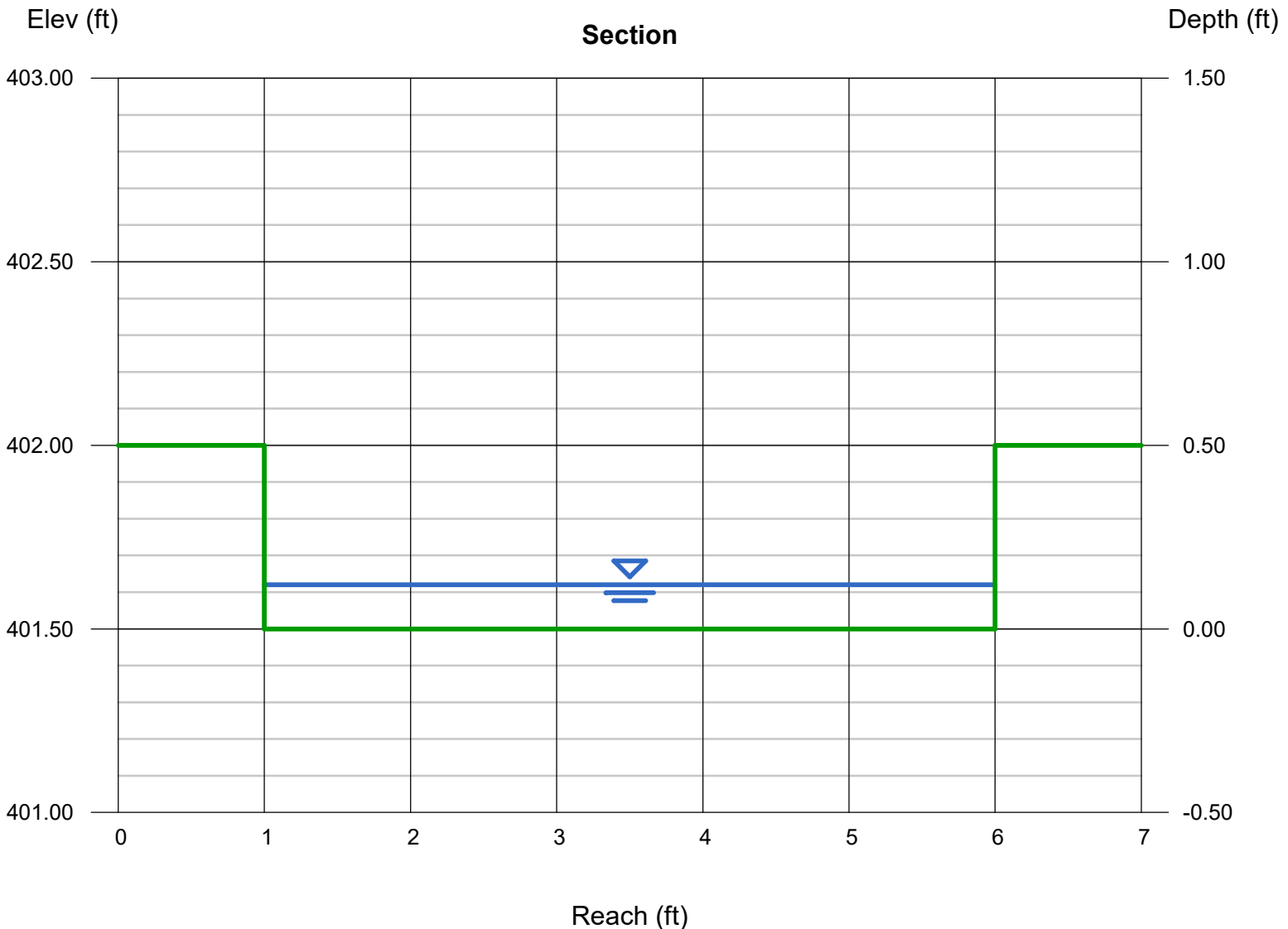
Velocity (ft/s) = 8.58

Wetted Perim (ft) = 5.24

Crit Depth,  $Y_c$  (ft) = 0.33

Top Width (ft) = 5.00

EGL (ft) = 1.27



# Channel Report

## Curb Cut by Dumpster Pad

### Rectangular

Bottom Width (ft) = 4.00  
Total Depth (ft) = 0.50

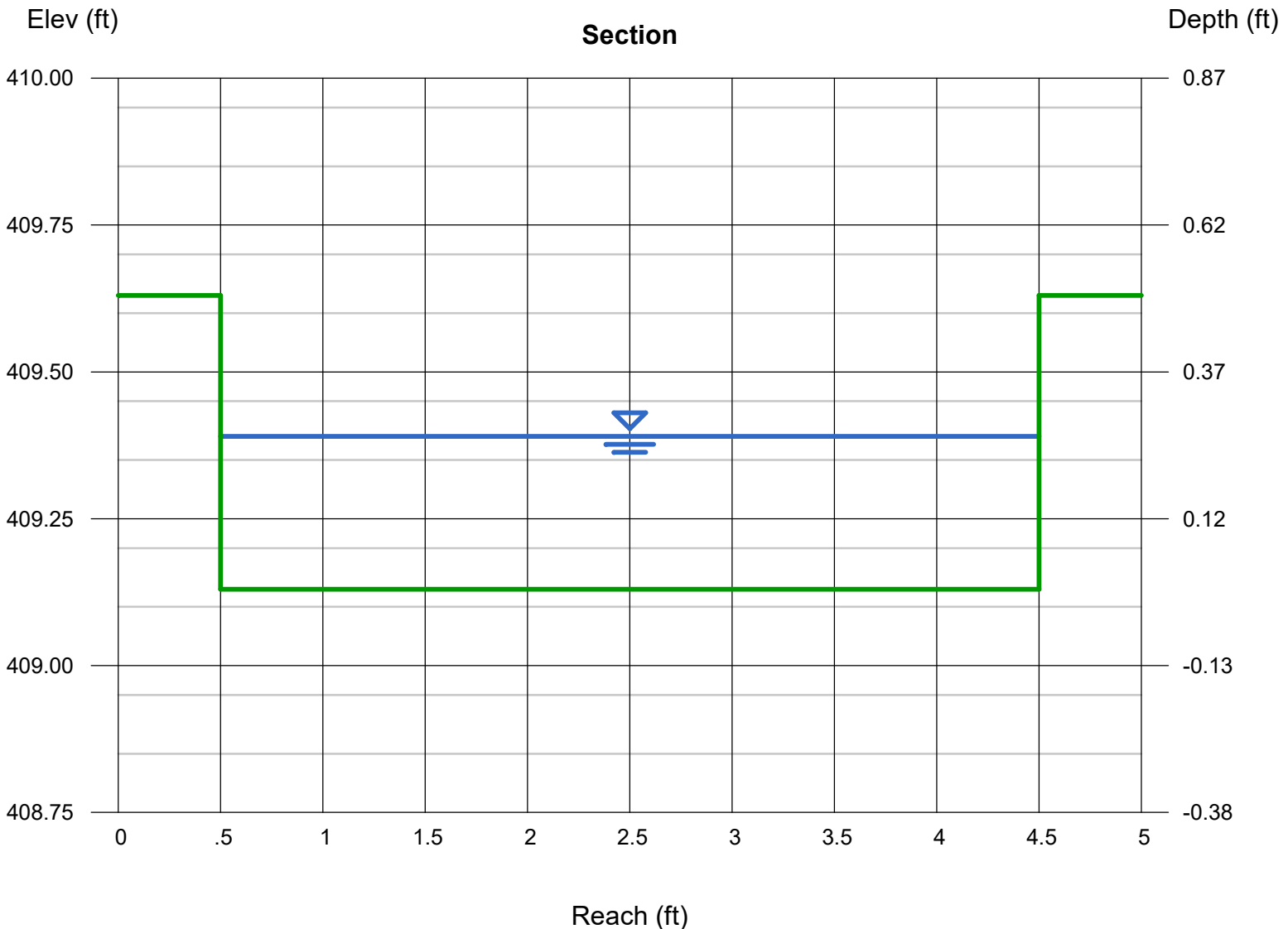
Invert Elev (ft) = 409.13  
Slope (%) = 5.00  
N-Value = 0.015

### Calculations

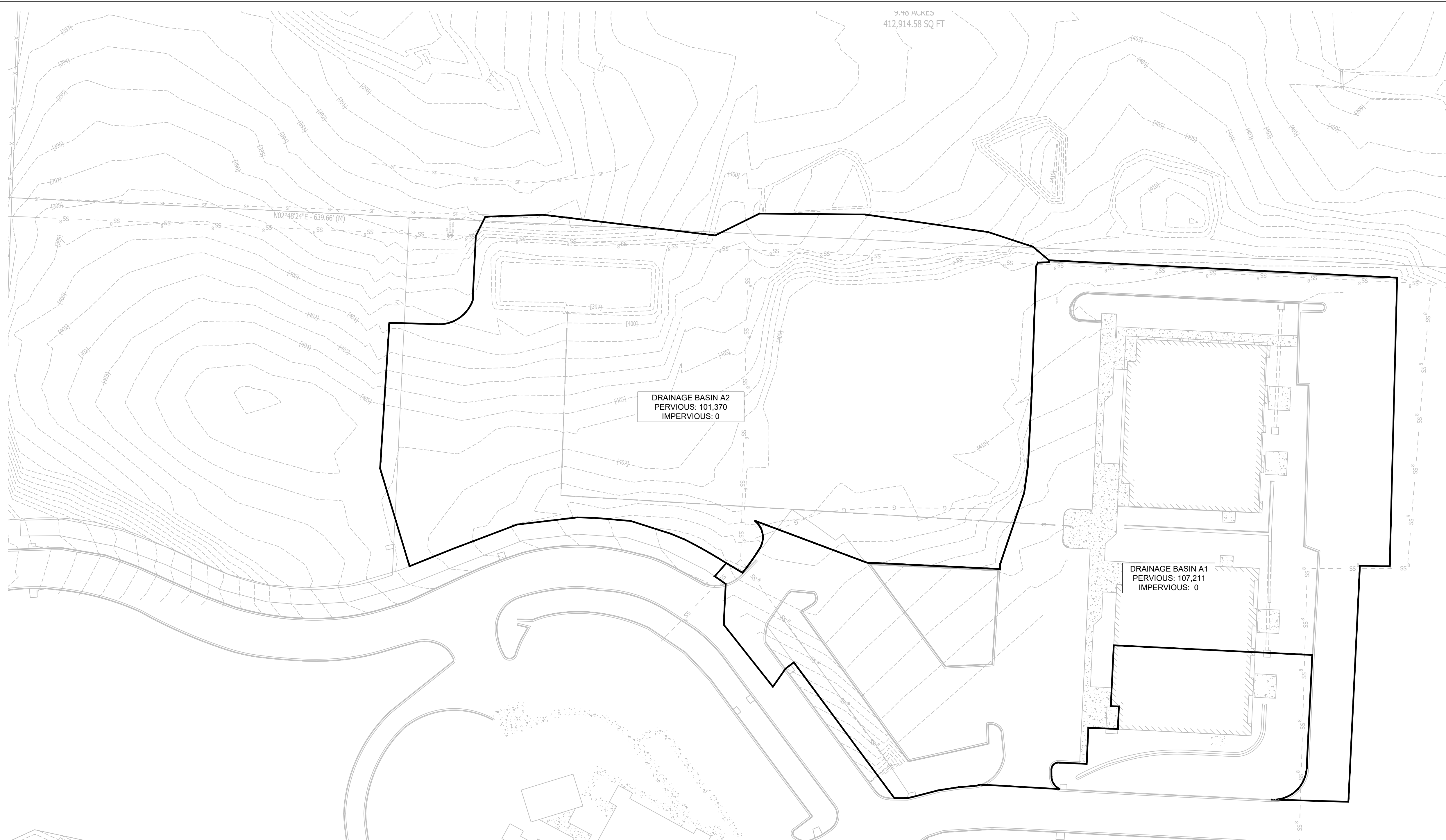
Compute by: Known Q  
Known Q (cfs) = 8.18

### Highlighted

Depth (ft) = 0.26  
Q (cfs) = 8.180  
Area (sqft) = 1.04  
Velocity (ft/s) = 7.87  
Wetted Perim (ft) = 4.52  
Crit Depth, Yc (ft) = 0.50  
Top Width (ft) = 4.00  
EGL (ft) = 1.22

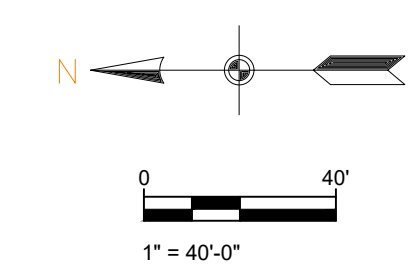
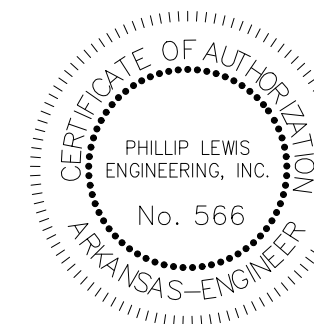


# DRAINAGE BASIN MAPS

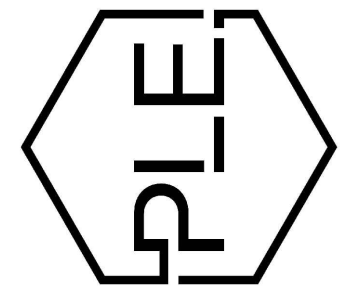


PRE DRAINAGE MAP

SCALE 1" = 40'

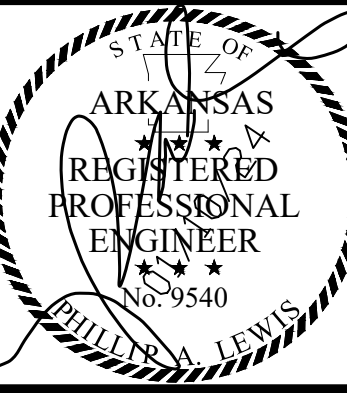


PHILLIP LEWIS ENGINEERING, INC.  
Structural + Civil Consultants  
23620 Interstate 30 | Bryant, Arkansas  
PH: 501-350-9840



REVISION:

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



PROJECT NUMBER:

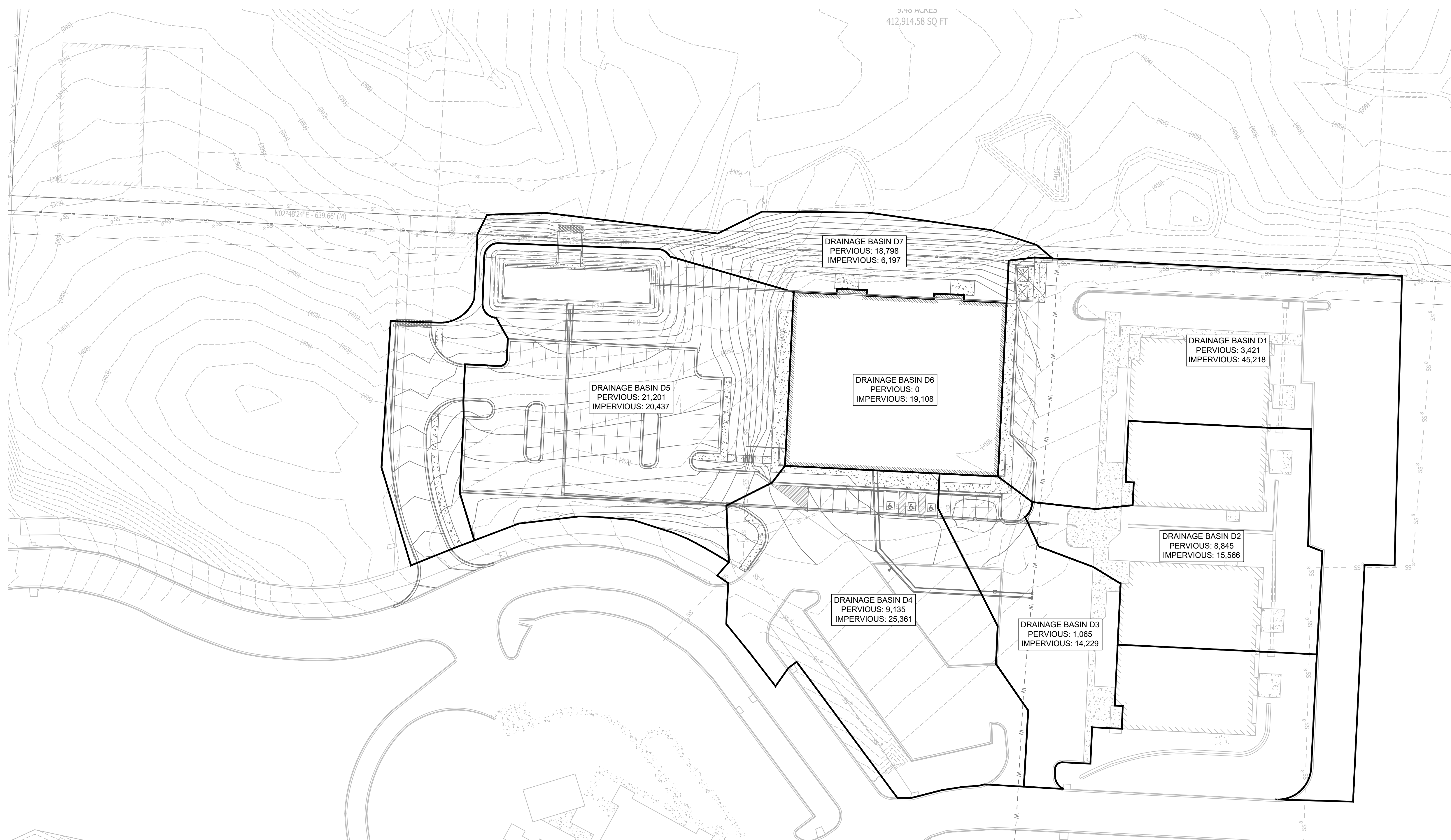
SHEET ISSUE DATE:  
1/10/2024

PAGE TITLE:

PRE DRAINAGE MAP

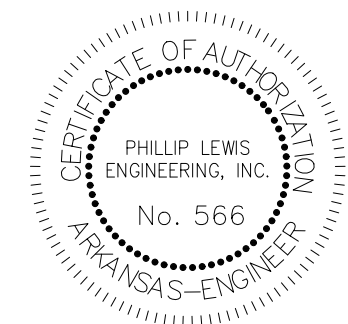
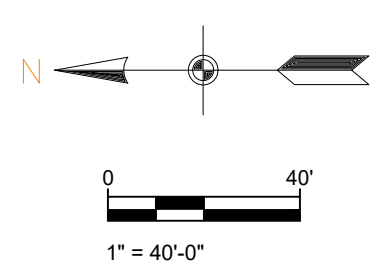
SHEET NUMBER:  
C1.5





POST DRAINAGE MAP

SCALE 1" = 40'



REVISION:

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

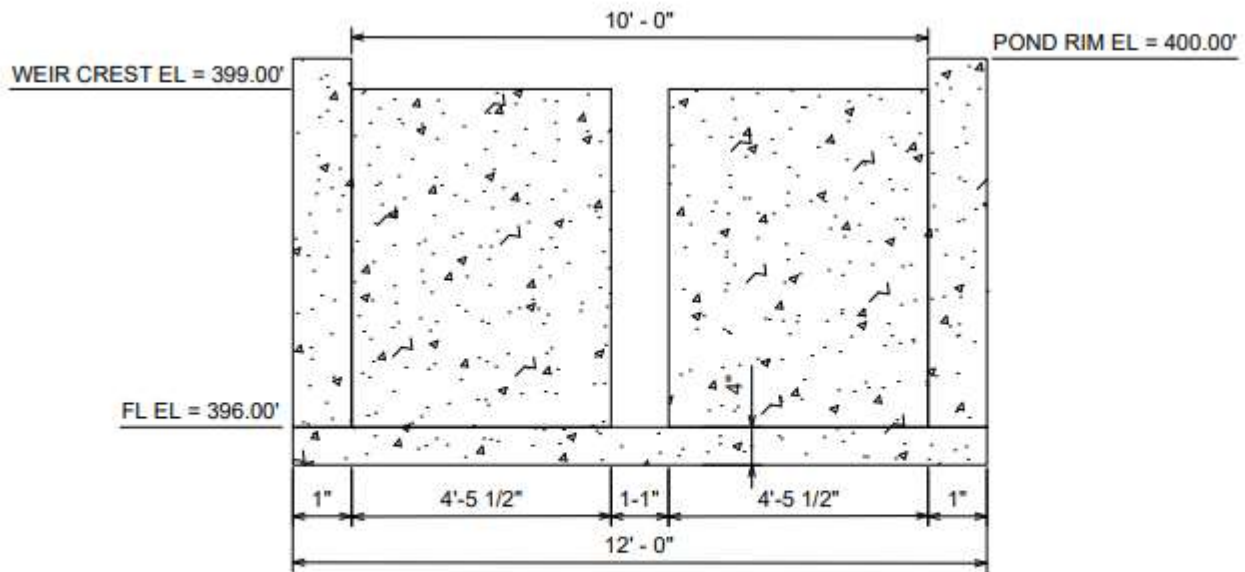
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PAGE TITLE:

POST DRAINAGE MAP

SHEET NUMBER:  
**C1.6**

# DETENTION BASIN OUTLET STRUCTURES





EXISTING DETENTION POND OUTLET STRUCTURE DETAIL

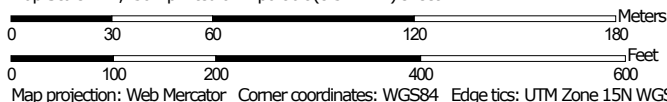
NOT TO SCALE

# SOIL CLASSIFICATION MAPS

# Custom Soil Resource Report Soil Map



Map Scale: 1:2,250 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

## Saline County, Arkansas

### 29—Tiak silt loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* m06q  
*Elevation:* 70 to 570 feet  
*Mean annual precipitation:* 44 to 61 inches  
*Mean annual air temperature:* 49 to 74 degrees F  
*Frost-free period:* 185 to 230 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Tiak and similar soils:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Tiak

##### Setting

*Landform:* Interfluves  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Loamy and clayey marine deposits

##### Typical profile

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

##### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 12 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* High (about 9.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C/D  
*Ecological site:* F133BY002TX - Seasonally Wet Upland  
*Hydric soil rating:* No

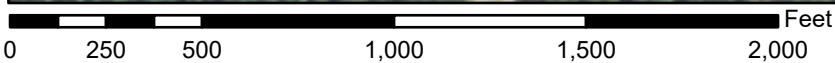
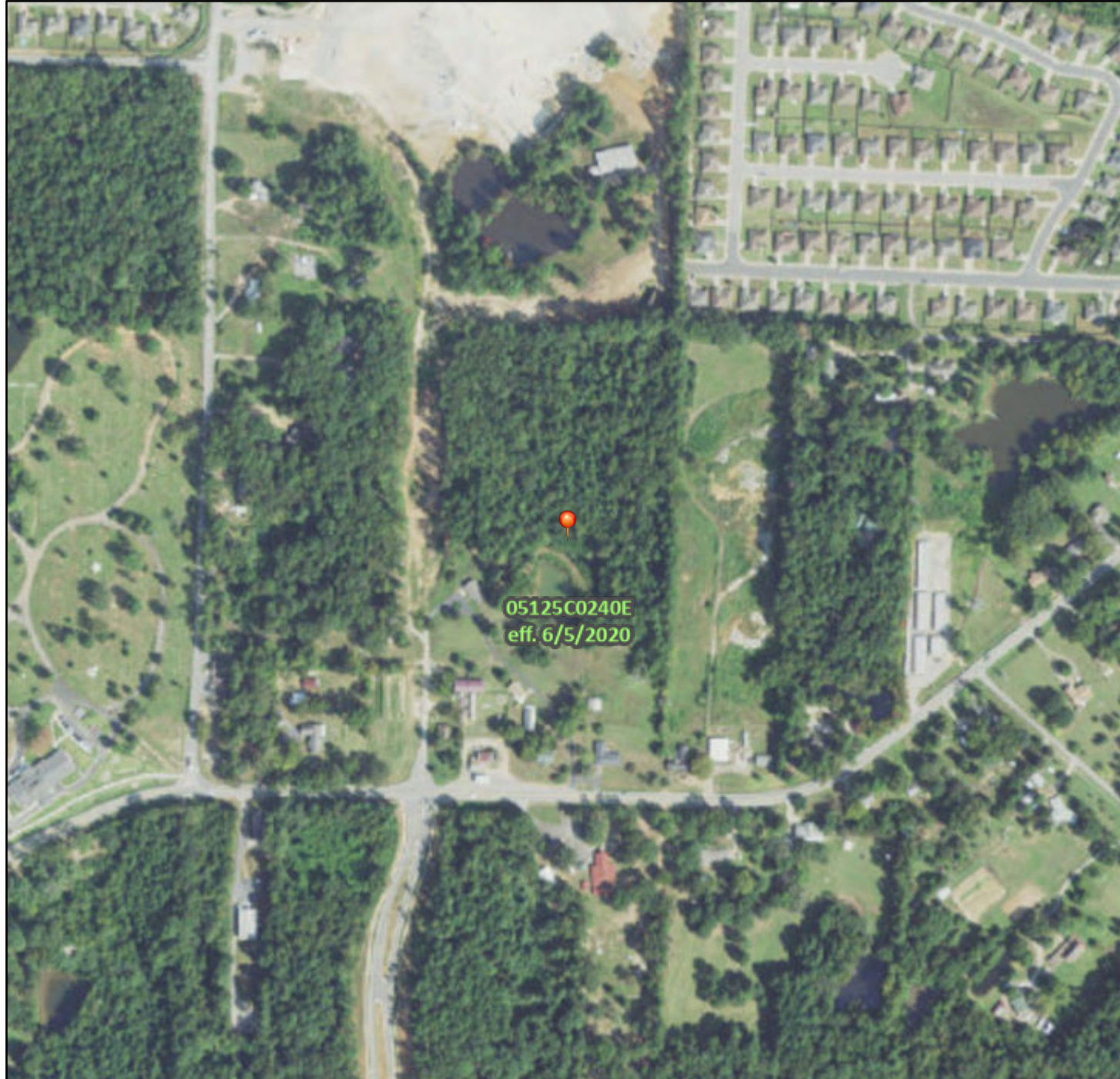
# FEMA FLOOD INSURANCE RATE MAP



# National Flood Hazard Layer FIRMMette



92°28'37"W 34°38'34"N




























1:6,000

92°28'W 34°38'4"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |   |  |  |
|---|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>   |   | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|   |   | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|   |   | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b>  |   | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|   |   | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|   |   | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|   |   | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>  |   | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|   |   | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>   |   | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|   |   | Channel, Culvert, or Storm Sewer   |
|   |   | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>   |   | 20.2 Cross Sections with 1% Annual Chance  |
|   |   | 17.5 Water Surface Elevation   |
|   |   | Coastal Transect   |
|   |   | Base Flood Elevation Line (BFE)  |
|   |   | Limit of Study   |
|   |    | Jurisdiction Boundary  |
|   |   | Coastal Transect Baseline  |
|   |   | Profile Baseline   |
|   |   | Hydrographic Feature   |
| <b>MAP PANELS</b>   |   | Digital Data Available   |
|   |   | No Digital Data Available  |
|   |   | Unmapped   |
|  | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. |  |



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/10/2024 at 5:31 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



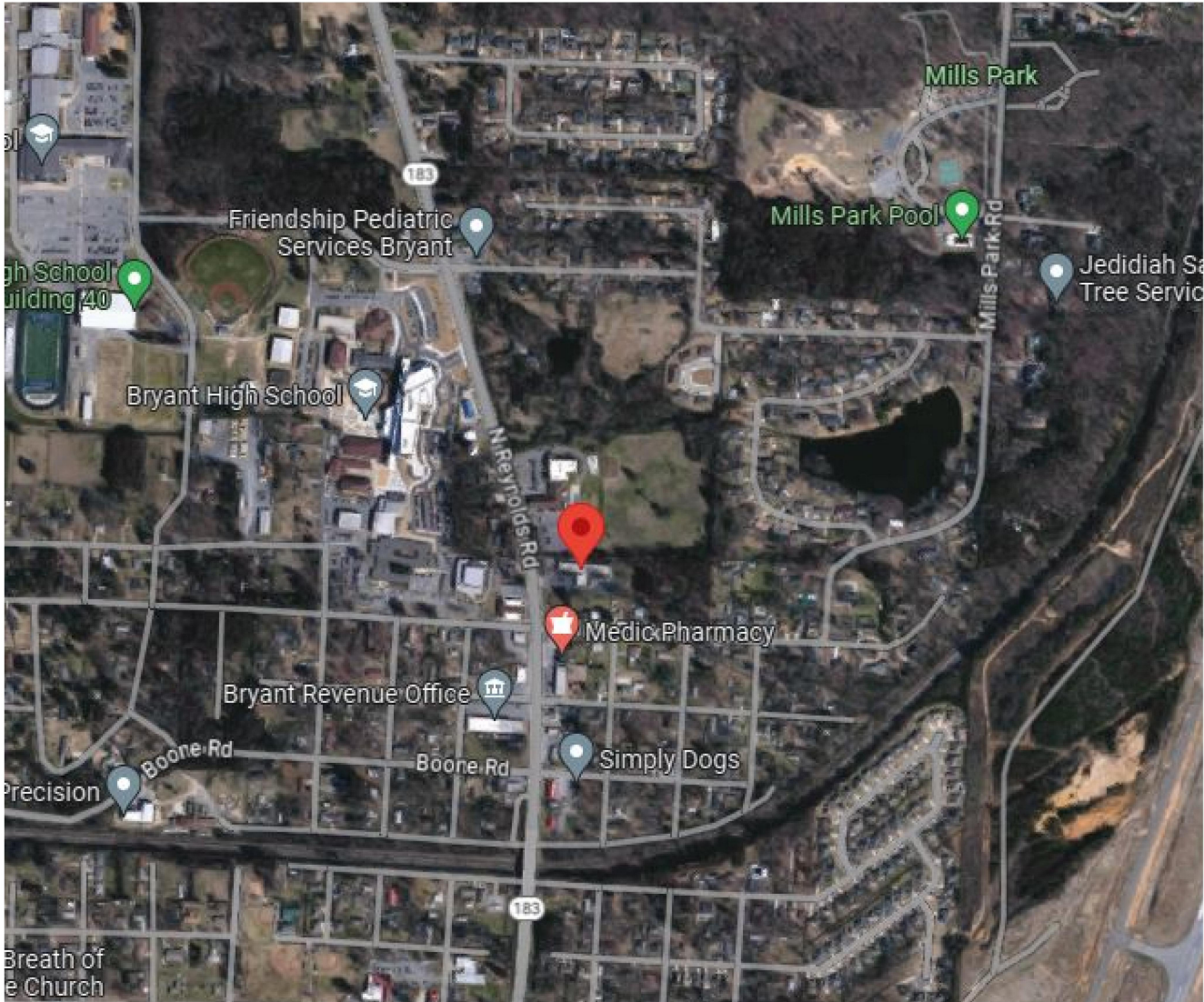
# THE ELROD FIRM



<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm	<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022	<b>PROPERTY CODE:</b> TBD
<b>DATE:</b> 11/09/2023	<b>SALES REP:</b> Dale Fisher	<b>PREPARED BY:</b> Victoria Phan
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		<b>INITIALS:</b> _____



# LOCATION MAP



<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm		<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022		<b>PROPERTY CODE:</b> TBD	
<b>DATE:</b> 11/09/2023		<b>SALES REP:</b> Dale Fisher		<b>PREPARED BY:</b> Victoria Phan	
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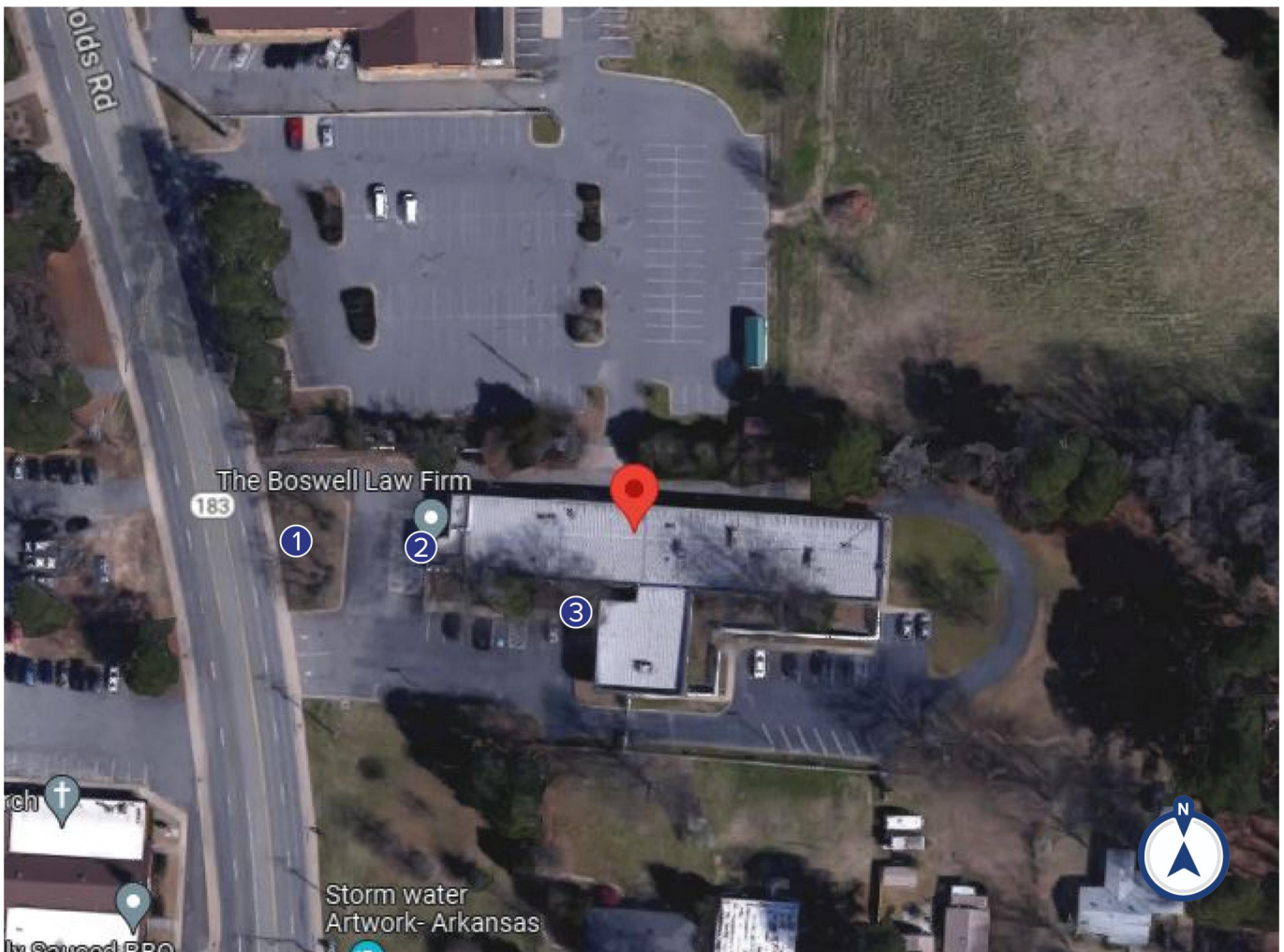
# SITE PLAN

## PROPOSED SIGNS:

- ① MONUMENT
- ② WALL CABINET
- ③ POST AND PANEL

## EXISTING SIGNS:

- ① NO SIGN
- ② WALL CABINET
- ③ NO SIGN



<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm		<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022		<b>PROPERTY CODE:</b> TBD
<b>DATE:</b> 11/09/2023	<b>SALES REP:</b> Dale Fisher	<b>PREPARED BY:</b> Victoria Phan		
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EXISTING



PROPOSED



RENDERINGS NOT TO SCALE



H10' x W8' custom monument

- HEX #122940
- TO BE DETERMINED
- HEX #F1BA53

<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm	<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022	<b>PROPERTY CODE:</b> TBD
<b>DATE:</b> 11/09/2023	<b>SALES REP:</b> Dale Fisher	<b>PREPARED BY:</b> Kayla Haydar
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		<b>INITIALS:</b> _____





EXISTING



PROPOSED



RENDERINGS NOT TO SCALE



H2'-11" x W11' non-lit cabinet  
 H7 1/2" x W10' dimensional letters  
 Retainer: 4"

- TO BE DETERMINED
- METALLIC GOLD (TO BE DETERMINED)

	<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm		<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022		<b>PROPERTY CODE:</b> TBD
	<b>DATE:</b> 11/20/2023	<b>SALES REP:</b> Dale Fisher	<b>PREPARED BY:</b> Victoria Phan		<b>INITIALS:</b> _____
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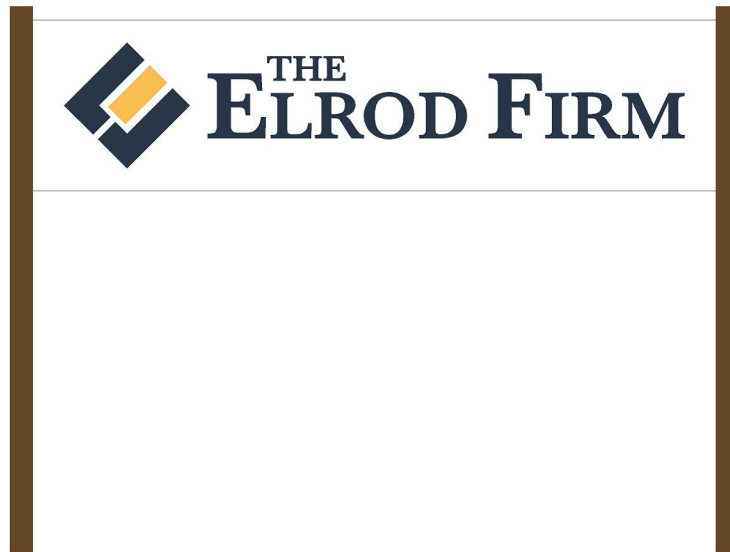
EXISTING



PROPOSED



RENDERINGS NOT TO SCALE



H1'-3" x W5' panel with applied graphics  
(2) H4' posts

- HEX #122940
- BRONZE (TO BE DETERMINED)
- HEX #F1BA53

<b>PROPERTY BRAND/EXTENSION:</b> The Elrod Firm	<b>PROPERTY LOCATION:</b> 400 Reynolds Road Bryant, AR 72022	<b>PROPERTY CODE:</b> TBD
<b>DATE:</b> 11/20/2023	<b>SALES REP:</b> Dale Fisher	<b>PREPARED BY:</b> Victoria Phan
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		<b>INITIALS:</b> _____



PROJECT INFO: sharks

RENDERING: channel letters

**AERO SIGNS**  
3308 pike ave  
N. Little Rock, AR 72118  
501.246.4952

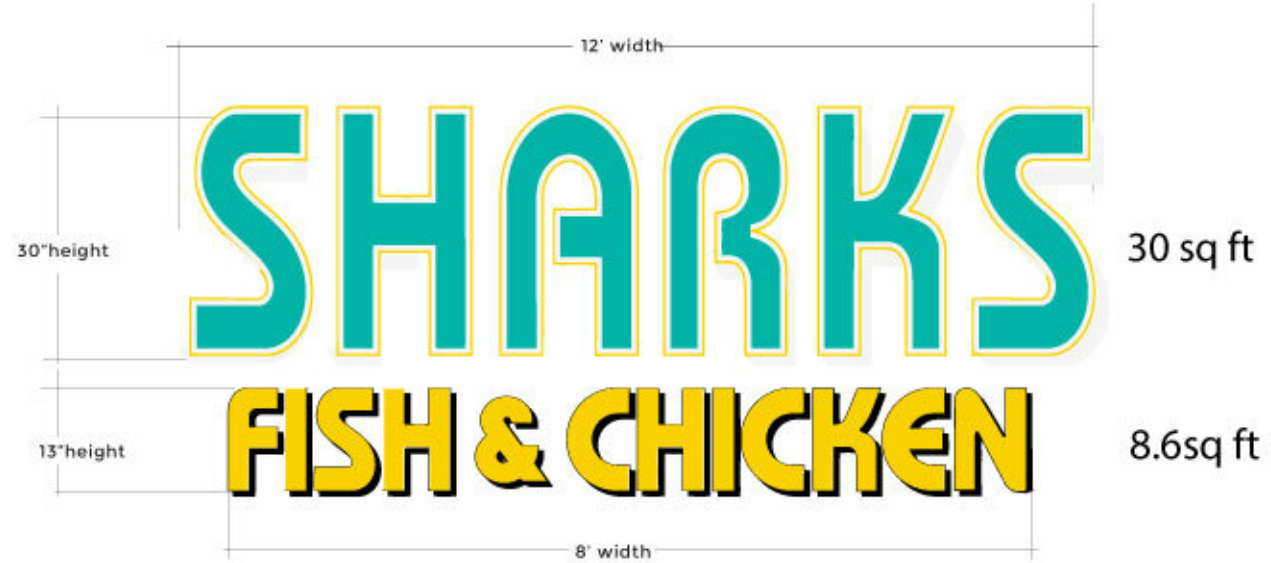
PROJECT MANAGER Mike V

SITE ADDRESS 5309-5313 Highway 5 N bryant AR

DESIGNER M, Vazquez

DATE: 12 / 14 / 2023

CONTACT PERSON



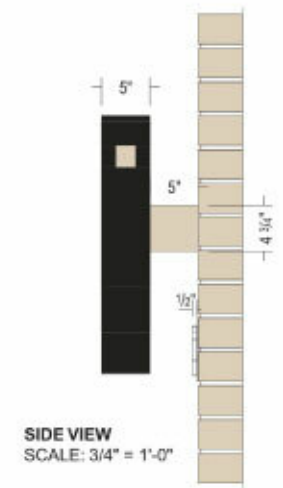
SPECIFICATION & MATERIALS

DETAIL DESCRIPTION

Side view

- channel letters led lit:
- Color Painted First Surface
- .040" Alum. Returns And
- .060" acrylic Faces

- 38.6 SQ ft
- white L.E.D. Illumination
  - 120v Mod-60 Power Supplies
  - Aluminuin Frame



SIDE VIEW  
SCALE: 3/4" = 1'-0"





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.

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

Date: 1/22/24

### Sign Co. or Sign Owner

Name: JOE The Sign Guy  
 Address: EXISTING SIGN  
 City, State, Zip: Photo Attached  
 Phone: (501) 653-4444  
 Email Address: N/A

### Property Owner

Name: Michelle Finney  
 Address: P.O. BOX 435  
 City, State, Zip: Bryant, AR 72089  
 Phone: (501) 529-3282  
 Email Address: N/A

### GENERAL INFORMATION

Name of Business: Sandy's Nails and Spa  
 Address/Location of sign: 3411 Main St. Ste 4, Bryant, AR 72089  
 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 Sandy Beeey, 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



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	
	<i>Existing Façade</i>	<i>1'6" x 6'8" + 12" x 12" + 1'6" x 13'3"</i>	<i>39.5 SF</i>			
A						
B						
C						
E						
F						
G						

*Photo of Sign Attached, Requesting Permission to move From Suite 8 to Suite 4 on the Same Building.*

*Jandy's*  
**NAILS & SPA**





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.

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

Date: 1/24/2024

**Sign Co. or Sign Owner**

Name L. Graphics  
 Address 701 N. Reynolds Rd  
 City, State, Zip Bryant, AR 72022  
 Phone (501) 653-4444  
 Alternate Phone 501-773-0544

**Property Owner**

Name Bart Ferguson  
 Address 107 Progress Wy Ste 500  
 City, State, Zip Bryant, AR 72022  
 Phone (501) 840-2282  
 Alternate Phone \_\_\_\_\_

**GENERAL INFORMATION**

Name of Business BOUTIQUES & SUITES  
 Address/Location of sign 107 Progress Wy Ste 500  
 Zoning Classification \_\_\_\_\_

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, Joe Lam, 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

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	
A	Channel letters	54" x 150"	56	13	17.16"	
B						
C						
E						
F						
G						



107 Progress Wy Ste. ~~500~~ 500

40 feet

**BOUTIQUES  
& SUITES**

150 in

54 in





# GUERRA-OCHOA DELIA VANESSA

2714 LAVERN DR  
 BRYANT, AR 72022



- [Basic](#)
- [Land](#)
- [Sales](#)
- [Valuation](#)
- [Taxes](#)
- [Receipts](#)
- [Improvements](#)
- [Parcel Boundary](#)

Basic Info	
Parcel Number:	840-07238-000
County Name:	Saline County
Property Address:	GUERRA-OCHOA DELIA VANESSA 2714 LAVERN DR BRYANT, AR 72022 <a href="#">Map This Address</a>
Mailing Address:	GUERRA-OCHOA DELIA VANESSA 2714 LAVERN DR BRYANT AR 72022
Collector's Mailing Address	CORELOGIC *MTG* ATTN: REFUNDS DEPT - CL 3001 HACKBERRY RD IRVING, TX 75063
Total Acres:	0.00
Timber Acres:	0.00
Sec-Twp-Rng:	22-01S-14W
Lot/Block:	55,56/
Subdivision:	PIKEWOOD I
Legal Description:	2019-008836
School District:	253 BRYANT/BRYANT
Homestead Parcel?:	Yes
Tax Status:	Taxable
Over 65?:	No



Colton Leonard <cleonard@cityofbryant.com>

---

## Conditional Use Permit for Short Term Rental

---

**Vanessa** <deliaguerrar@gmail.com>  
To: Colton Leonard <cleonard@cityofbryant.com>

Fri, Dec 15, 2023 at 10:14 AM

Good morning!!

I would like to request a conditional use permit for the property on [2714 Lavern St, Bryant, AR 72022](#); this is my home, me and my son live here.

In order to support my family i decided to separate the living room from the rest of the house creating some type of "studio" that i would like to use as short term rental.

I appreciate your time on this matter.

Kind regards,

Delia Vanessa Guerra Ochoa

[Quoted text hidden]





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

## Conditional Use Permit Application

Applicants are advised to read the Conditional Use Permit section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at [www.cityofbryant.com](http://www.cityofbryant.com) under the Planning and Community Development tab.

Date: 12/06/2023

**Applicant or Designee:**

**Project Location:**

Name Delia Vanessa Guerra-Ochoa Property Address 2714 Lavern St  
Address 2714 Lavern St, Bryant AR 72022 Bryant AR 72022  
Phone 501 283 4058 Parcel Number \_\_\_\_\_  
Email Address: deliaguerrara@gmail.com Zoning Classification sub 2

**Property Owner (If different from Applicant):**

Name Delia Vanessa Guerra-Ochoa  
Phone 501-283-4058  
Address 2714 Lavern, St, Bryant, AR, 72022  
Email Address deliaguerrara@gmail.com

**Additional Information:**

Legal Description (Attach description if necessary)

Pikewood sub. 2 lot

Description of Conditional Use Request (Attach any necessary drawings or images)

Short term rental

Proposed/Current Use of Property

Residential → Short term rental

# Application Checklist

## Requirements for Submission

- Letter stating request of Conditional Use and reasoning for request
- Completed Conditional Use Permit Application
- Submit Conditional Use Permit Application Fee (\$125)
- Submit Copy of completed Public Notice
- Publication: Public Notice shall be published at least one (1) time fifteen (15) days prior to the public hearing at which the variance will be heard. Once published please provide a proof of publication to the Community Development office.  
*Sabine Carrier Downtown Benton*
- Posting of Property: The city shall provide a sign to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.
- Submit eight (8) Copies of the Development Plan (Site Plan) showing:
  - Location, size, and use of buildings/signs/land or improvements
  - Location, size, and arrangement of driveways and parking. Ingress/Egress
  - Existing topography and proposed grading
  - Proposed and existing lighting
  - Proposed landscaping and screening
  - Use of adjacent properties
  - Scale, North Arrow, Vicinity Map
  - Additional information that may be requested by the administrative official due to unique conditions of the site.

**Once the application is received, the material will be reviewed to make sure all the required information is provided. The applicant will be notified if additional information is required. The application will then go before the Development and Review Committee (DRC) for a recommendation to the Planning Commission. A public hearing will be held at this meeting for comments on the Conditional Use. After the public hearing, the Planning Commission will make a decision on the use.**

**Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.**

### **READ CAREFULLY BEFORE SIGNING**

I \_\_\_\_\_, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes and that it is my responsibility to obtain all necessary permits required.

## NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, January 8th, 2024 at 6:00 P.M.

at the Bryant City Office Complex, 210 Southwest 3<sup>rd</sup> Street, City of Bryant, Saline

County, for the purpose of public comment on a conditional use request at the site of

2714 Lavern St, Bryant, AR 72022 (address).

A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

Rick Johnson  
Chairman Board of Zoning Adjustment  
City of Bryant

*This notice is to be run in the legal notices section of the Saline Courier  
no less than 15 days prior to the public hearing.*

AFFP  
NOTICE OF PUBLIC HEARING A pub

**Affidavit of Publication**

STATE OF ARKANSAS }  
COUNTY OF SALINE } SS

NOTICE OF PUBLIC HEARING  
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, being duly sworn, says:

That she is Lisa McElrath of the The Saline Courier, a daily newspaper of general circulation, printed and published in Benton, Saline County, Arkansas; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

Rick Johnson  
Chairman Board of Zoning Adjustment  
City of Bryant

January 18, 2024

That said newspaper was regularly issued and circulated on those dates.

SIGNED:



Lisa McElrath

Subscribed to and sworn to me this 18th day of January 2024.

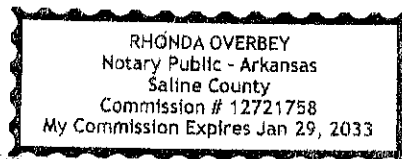


Rhonda Overbey, Notary, Saline County, Arkansas

My commission expires: January 29, 2033

01121617 00169754

Maunish Shah (28)  
12 Longwell Loop  
Little Rock, AR 72211



# Today in History: January 18, Captain Cook reaches Hawaii

### Associated Press

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In 1913, entertainer Danny Kaye was born David Daniel Kaminsky

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### WHAT IT COSTS

- 4 lines - 3 days - \$18.68\*
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\*Price doesn't include charge for graphic, TMC rate, or internet. Price is subject to change.

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Wednesday	Tues. Noon
Thursday	Wed. Noon
Friday	Thurs. Noon
Saturday	Thurs. Noon
Sunday	Fri. 10 a.m.

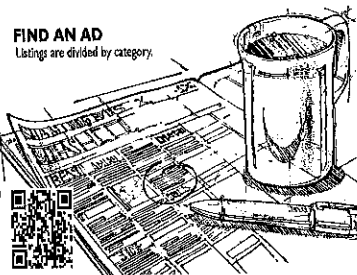
You can place your ad on our website... bentoncourier.com just go to website and follow the steps.

Email us at: class@bentoncourier.com class2@bentoncourier.com

### GET ONLINE

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Listings are divided by category.



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Want to invest in Timberland? Or just looking for the great outdoors? TAKE A HIKE through our new and existing listings at United Country Neoley Forestry, at the website below OR CALL for more information! UCN@neoleyforestry.com (870) 856-598

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Rick Johnson  
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Classifieds Work!

Let the Courier Classifieds work for you.

**Auction**  
AUCTION - Petals of Dennis & Kristi Wood, Sat Jan. 20th Noon, 442 County Rd 2320 Clarksville AR - amazing collection of items including antiques, collectibles, motors, household items, crafts, paintings and even a 1966 Pontiac Star Chief completely restored in mint condition, a pawn shop, Deep fryers, double door coolers, commercial large fryers, washers & dryers, gutters etc. drum set, auto stereo equip., wood eaters, blowers, MORE, list updated as we get in. Call for info: DE-TAILS & PHOTOS AT AUCTIONZIP.COM USER ID 17452. TERMS: Real estate 5% Buyer's premium to determine contract price, \$25,000 down date of sale. If offer accepted. Personal Property: Cash, checks or credit card (5% added to all credit) All home sold AS IS, WHERE IS. Concession on site. PUCKETT AUCTIONEERS 1199, 501-310-8151

Looking for a good deal? Search the Courier Classifieds!

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### Legal Notices

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**Auction**  
REAL ESTATE PLUS CONTENTS AT AUCTION - JAN. 27, 2024, 2301 E. Broadway, NLR, AR 72114 - 8,000 SF building on 2 large lots. Would work for a convenience or retail store. Zoned CA. 1,000's of cars go by each day. Plus, all contents inside. Was a pawn shop, Deep fryers, double door coolers, commercial large fryers, washers & dryers, gutters etc. drum set, auto stereo equip., wood eaters, blowers, MORE, list updated as we get in. Call for info: DE-TAILS & PHOTOS AT AUCTIONZIP.COM USER ID 17452. TERMS: Real estate 5% Buyer's premium to determine contract price, \$25,000 down date of sale. If offer accepted. Personal Property: Cash, checks or credit card (5% added to all credit) All home sold AS IS, WHERE IS. Concession on site. PUCKETT AUCTIONEERS 1199, 501-310-8151

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**Services**  
DIRECTV. New 2-Year Price Guarantee. The most live MLB games this season, 200+ channels and over 45,000 on-demand titles. \$84.99/mo for 24 months with CHOICE Package. Some restrictions apply. Call DIRECTV 1-855-400-3297

NOW OPENING TRAVEL AGENCY MASSAGE - 10% off first walk-in visit!! 4608 JFK Blvd, NLR. (Next to Papa John's) 501-813-4585. Ask for Gina or Ruth.

Prepare for power outages today with a GENERAC home standby generator \$0 Money Down + Low Monthly Payment Options. Request a FREE Quote - Call now before the next power outage! 1-877-319-0598

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Classifieds Work!

**Help Wanted**  
HIRING EVENT - NURSING, CNA's, and MORE positions available!!! Tuesday, January 30, 2024 1-5 pm. Seeking a fulfilling career doing meaningful work with amazing children, and people who care? Pediatric Complex Care of Ar., 4100 Heritage Dr. NLR, AR 72117. www.pccar.org, 501-945-3177

Opportunities for RNs and LPNs at UAMS in Little Rock - \* Hotel Lodging Program for nurses traveling 45+ miles to LR \* Sign-On Bonuses \* (RN \$25K/LPNs \$18K) \* Tuition Discount 50% at any UA campus (40% spouse/children) \* Up to 10% Retirement Match - In-House Agency (Med./Surg.) for 13 Weeks. Check website for eligibility. Nurses.uams.edu Apply at jobs.uams.edu

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**For Sale**  
When veterinary care is unavailable or unaffordable, ask for Happy Jacks, your dog would Reshuffle overnight. Distributed by K&K Vet Supply (479-361-1516)

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Time to get your own place? Check out the Rental Section in today's Classifieds...



## Business & Service Directory

<b>Carpentry</b> <b>EXPERIENCED CARPENTER</b> - OUT OF WORK - - REMODELER & - HOME MAINT. PLEASE CALL TOM 501-778-6171 <b>Painting</b> <b>SUPERIOR PAINTING,</b> Interior & Exterior Drywall Repair • Tinture Pressure Washing <b>FREE ESTIMATES</b> <b>KELLY HILL</b> 501-840-1470	<b>Conceal Carry</b> <b>CONCEALED HANDGUN CLASSES</b> Course completed in one day. All fees paperwork provided. Tim Bragg, Instructor 485-095 501-278-7419	<b>Gutters</b> <b>WILLIS &amp; SON ROOFING</b> + Seamless Gutters 501-617-9215	<b>Power Washing</b> <b>Royal Flush</b> Chimney Cleaning Insulation Your Best Ready "Rooster" Pelton - Owner Serving Central Arkansas since 1988 316-1536	<b>Roofing</b> <b>WILLIS &amp; SON ROOFING</b> FREE Inspection 501-617-9215	<b>Tree Service</b> <b>MOORE AFFORDABLE TREE SERVICE</b> 25+ Years Experience Licensed and Insured *Take Downs *Trimming *Pruning *Stump Grinding *Storm Cleanup 501-778-8071 501-888-9311	<b>Tree Service</b> <b>CRITES &amp; TACKETT TREE SERVICE</b> • Free Estimates • Workman's Comp & Liability Insured • Stump Removal 501-337-1565 501-337-9094
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Call Today 501-315-8228 to place your business or service ad





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

## Conditional Use Permit Application

Applicants are advised to read the Conditional Use Permit section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at [www.cityofbryant.com](http://www.cityofbryant.com) under the Planning and Community Development tab.

Date: 1/8/2024

**Applicant or Designee:**

Name VEER investment Properties LLC

Address 12 Longwell Loop, LR, AR 72211

Phone 501 766 9090

Email Address: veersuite@gmail.com

**Project Location:**

Property Address 2903 Pikewood Dr, Lot 31A

Bryant, AR 72022

Parcel Number \_\_\_\_\_

Zoning Classification R-M

**Property Owner (If different from Applicant):**

Name \_\_\_\_\_

Phone \_\_\_\_\_

Address \_\_\_\_\_

Email Address \_\_\_\_\_

**Additional Information:**

Legal Description (Attach description if necessary)

Pikewood Subdivision lots 31+32

Description of Conditional Use Request (Attach any necessary drawings or images)

\_\_\_\_\_

Proposed/Current Use of Property Duplexes, current use Single Family Home

# Application Checklist

## Requirements for Submission

- Letter stating request of Conditional Use and reasoning for request
- Completed Conditional Use Permit Application
- Submit Conditional Use Permit Application Fee (\$125)
- Submit Copy of completed Public Notice
- Publication: Public Notice shall be published at least one (1) time fifteen (15) days prior to the public hearing at which the variance will be heard. Once published please provide a proof of publication to the Community Development office.
- Posting of Property: The city shall provide a sign to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.
- Submit eight (8) Copies of the Development Plan (Site Plan) showing:
  - Location, size, and use of buildings/signs/land or improvements
  - Location, size, and arrangement of driveways and parking. Ingress/Egress
  - Existing topography and proposed grading
  - Proposed and existing lighting
  - Proposed landscaping and screening
  - Use of adjacent properties
  - Scale, North Arrow, Vicinity Map
  - Additional information that may be requested by the administrative official due to unique conditions of the site.

**Once the application is received, the material will be reviewed to make sure all the required information is provided. The applicant will be notified if additional information is required. The application will then go before the Development and Review Committee (DRC) for a recommendation to the Planning Commission. A public hearing will be held at this meeting for comments on the Conditional Use. After the public hearing, the Planning Commission will make a decision on the use.**

**Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.**

### **READ CAREFULLY BEFORE SIGNING**

I \_\_\_\_\_, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes and that it is my responsibility to obtain all necessary permits required.



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of Community Development.

-Rick Johnson  
-Chairman Board of Zoning Adjustment  
City of Bryant

*This notice is to be run in the legal notices section of the Saline Courier  
no less than 15 days prior to the public hearing.*



AFFP  
NOTICE OF PUBLIC HEARING A pub

**Affidavit of Publication**

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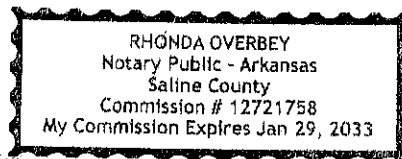


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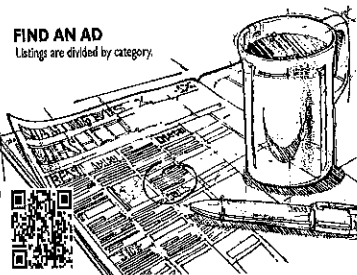
You can place your ad on our website... bentoncourier.com just go to website and follow the steps.

Email us at: class@bentoncourier.com class2@bentoncourier.com

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City of Bryant

**Auction**  
**REAL ESTATE PLUS CONTENTS AT AUCTION** - JAN. 27, 2024, 2301 E. Broadway, NLR, AR 72114 - 8,000 SF building on 2 large lots. Would work for a convenience or retail store. Zoned CA. 1,000's of cars go by each day. Plus, all contents inside. Was a pawn shop, Deep fryers, double door coolers, commercial large fryers, washers & dryers, gutters etc. drum set, auto stereo equip., wood eaters, blowers, MORE, list updated as we get in. Call for info: DE-TAILS & PHOTOS AT AUCTIONZIP.COM USER ID 17452. TERMS: Real estate 5% Buyer's premium to determine contract price, \$25,000 down date of sale. If offer accepted. Personal Property: Cash, checks or credit card (5% added to all credit) All home sold AS IS, WHERE IS. Concession on site. PUCKETT AUCTIONEERS 1199, 501-310-8151

**Auction**  
Let the Courier Classifieds work for you.  
To place your Classified Ad: Mon-Fri. 8am-5pm 315-8228 or come by 321 N. Market St.

**Auction**  
Want to Downsize Your Gas Guzzler? Sell it in the Courier Classifieds. Call to place your ad today! 315-8228

### Legal Notices

**NOTICE OF PUBLIC HEARING**  
A public hearing will be held on Monday, February 12th, 2024 at 6:00 P.M. at the Bryant City Office Complex, 210 Southwest 3rd Street, City of Bryant, Saline County, for the purpose of public comment on a conditional use request at the site of 2303 Pikeswood Drive, Tract 31A & 31B, Bryant, AR 72211. A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

Rick Johnson  
Chairman Board of Zoning Adjustment  
City of Bryant

**Services**  
**DIRECTV**, New 2-Year Price Guarantee. The most live MLB games this season, 200+ channels and over 45,000 on-demand titles. \$84.99/mo for 24 months with CHOICE Package. Some restrictions apply. Call DIRECTV 1-855-400-3297

**Services**  
**NOW OPENING TRAVEL AGENCY** - THERAPEUTIC MASSAGE - 10% off first walk-in visit!! 4608 JFK Blvd, NLR. (Next to Papa John's) 501-813-4585. Ask for Gina or Ruth.

**Services**  
Prepare for power outages today with a GENERAC home standby generator \$0 Money Down + Low Monthly Payment Options. Request a FREE Quote - Call now before the next power outage! 1-877-319-0598

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Chairman Board of Zoning Adjustment  
City of Bryant

**Help Wanted**  
**HIRING EVENT - NURSING, CNA's, and MORE** positions available!!! Tuesday, January 30, 2024 1-5 pm. Seeking a fulfilling career doing meaningful work with amazing children, and people who care? Pediatric Complex Care of Ar., 4100 Heritage Dr. NLR, AR 72117. www.pccar.org, 501-945-3177

**Help Wanted**  
Opportunities for RNs and LPNs at UAMS in Little Rock - \* Hotel Lodging Program for nurses traveling 45+ miles to LR \* Sign-On Bonuses \* (RN \$25K/LPNs \$18K) \* Tuition Discount 50% at any UA campus (40% spouse/children) \* Up to 10% Retirement Match - In-House Agency (Med./Surg.) for 13 Weeks. Check website for eligibility. Nurses.uams.edu Apply at jobs.uams.edu

**Help Wanted**  
Looking for love in all the wrong places???? Check out the Freebie section in today's classifieds. You will find unconditional love there FREE! Fury & Free!

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City of Bryant

**For Sale**  
When veterinary care is unavailable or unaffordable, ask for Happy Jacks, your dog would Reshuffle overnight. Distributed by K&K Vet Supply (479-361-1516)

**For Sale**  
Ready to graduate from particle board? 1000's of Courier Classifieds will read your ad daily. Call place your ad today!

**For Sale**  
Want to Downsize Your Gas Guzzler? Sell it in the Courier Classifieds. Call to place your ad today! 315-8228

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City of Bryant



## Business & Service Directory

**Carpentry**  
**EXPERIENCED CARPENTER** - OUT OF WORK - REMODELER & HOME MAINT. PLEASE CALL TOM 501-778-6171

**Painting**  
**SUPERIOR PAINTING**, Interior & Exterior. Drywall Repair • Tinting • Pressure Washing. FREE ESTIMATES. KELLY HILL 501-840-1470

**Conceal Carry**  
**CONCEALED HANDGUN CLASSES**  
Course completed in one day. All fees provided. Tim Bragg, Instructor 485-095 501-278-7419

**Gutters**  
**WILLIS & SON ROOFING** - Seamless Gutters  
501-617-9215

**Power Washing**  
**Royal Flush**  
Chimney Cleaning, Insulation, Drywall, Siding, Ready "Rooster" Pelton - Owner. Serving Central Arkansas since 1988. 316-1536

**Roofing**  
**WILLIS & SON ROOFING**  
FREE Inspection  
501-617-9215

**Tree Service**  
**MOORE AFFORDABLE TREE SERVICE**  
\*Tree Removal \*Stump Grinding \*Storm Cleanup  
501-778-8071 501-888-9111

**Tree Service**  
**CRITES & TACKETT TREE SERVICE**  
Free Estimates • Workman's Comp & Liability Insured • Stump Removal  
501-337-1565 501-337-9094



Call Today 501-315-8228 to place your business or service ad



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

## Conditional Use Permit Application

Applicants are advised to read the Conditional Use Permit section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at [www.cityofbryant.com](http://www.cityofbryant.com) under the Planning and Community Development tab.

Date: 1/8/2024

**Applicant or Designee:**

Name VEER investment Properties LLC  
Address 12 Longwell Loop, LR AR 72211  
Phone 501 766 9090  
Email Address: veersuite@gmail.com

**Project Location:**

Property Address 2903 Pikewood, Lot 31B  
Bryant, AR 72022  
Parcel Number \_\_\_\_\_  
Zoning Classification R-M

**Property Owner (If different from Applicant):**

Name \_\_\_\_\_  
Phone \_\_\_\_\_  
Address \_\_\_\_\_  
Email Address \_\_\_\_\_

**Additional Information:**

Legal Description (Attach description if necessary)

Pikewood Subdivision lots 31+32

Description of Conditional Use Request (Attach any necessary drawings or images)

\_\_\_\_\_

Proposed/Current Use of Property Duplexes, current use Single Family Home

DRC  
Jan. 18th  
Brian OR  
Heather

# Application Checklist

## Requirements for Submission

- Letter stating request of Conditional Use and reasoning for request
- Completed Conditional Use Permit Application
- Submit Conditional Use Permit Application Fee (\$125)
- Submit Copy of completed Public Notice
- Publication: Public Notice shall be published at least one (1) time fifteen (15) days prior to the public hearing at which the variance will be heard. Once published please provide a proof of publication to the Community Development office.
- Posting of Property: The city shall provide a sign to post on the property involved for the fifteen (15) consecutive days leading up to Public hearing. One (1) sign is required for every two hundred (200) feet of street frontage.
- Submit eight (8) Copies of the Development Plan (Site Plan) showing:
  - Location, size, and use of buildings/signs/land or improvements
  - Location, size, and arrangement of driveways and parking. Ingress/Egress
  - Existing topography and proposed grading
  - Proposed and existing lighting
  - Proposed landscaping and screening
  - Use of adjacent properties
  - Scale, North Arrow, Vicinity Map
  - Additional information that may be requested by the administrative official due to unique conditions of the site.

Feb 12th  
Planning Com  
meeting

Sellin  
Courier  
18th to 28th  
Run 1 times

→ email publication to Colton

Once the application is received, the material will be reviewed to make sure all the required information is provided. The applicant will be notified if additional information is required. The application will then go before the Development and Review Committee (DRC) for a recommendation to the Planning Commission. A public hearing will be held at this meeting for comments on the Conditional Use. After the public hearing, the Planning Commission will make a decision on the use.

**Note: that this is not an exhaustive guideline regarding the Conditional Use Permit Process. Additional information is available in the Bryant Zoning Ordinance.**

### READ CAREFULLY BEFORE SIGNING

I \_\_\_\_\_, do hereby certify that all information contained within this application is true and correct. I further certify that the owner of the property authorizes this proposed application. I understand that I must comply with all City Codes and that it is my responsibility to obtain all necessary permits required.



## NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, February 12th, 2024 at 6:00 P.M.

at the Bryant City Office Complex, 210 Southwest 3<sup>rd</sup> Street, City of Bryant, Saline

County, for the purpose of public comment on a conditional use request at the site of

2903 Pikewood Dr, Lot 31A + Lot 31B (address).

A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

-Rick Johnson  
-Chairman Board of Zoning Adjustment  
City of Bryant

*This notice is to be run in the legal notices section of the Saline Courier  
no less than 15 days prior to the public hearing.*



LOTS 31A 31B AND 32A  
BEING A REPLAT OF LOTS 31 AND 32  
PIKEWOOD SUBDIVISION

LEGAL DESCRIPTION:

All that part of Lots 31 and 32, Pikewood Subdivision to Saline County, Arkansas, more particularly described as follows: Beginning at the Northeast corner of said Lot 32, thence South 08 deg. 37 min. 10 sec. East a distance of 160.00 feet to the Southeast corner of said Lot 32; thence North 88 deg. 00 min. 45 sec. West a distance of 138.00 feet to the Southwest corner of said Lot 31; thence North 08 deg. 37 min. 10 sec. West a distance of 158.78 feet to the Northwest corner of said Lot 31; thence South 88 deg. 31 min. 32 sec. East a distance of 138.00 feet to the Point of Beginning, containing 0.50 acres, more or less

CERTIFICATE OF FINAL PLAT APPROVAL

Pursuant to the City of Bryant Subdivision Rules and Regulations, this Document was given approval by the Bryant Planning Commission at a meeting held \_\_\_\_\_, 2024. All of the Document is hereby accepted, and this certificate executed under the authority of said Rules and Regulations

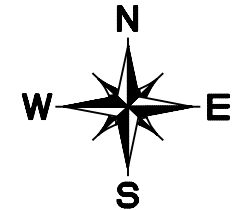
Bryant Planning Commission

Date of Execution  
CERTIFICATE OF OWNER

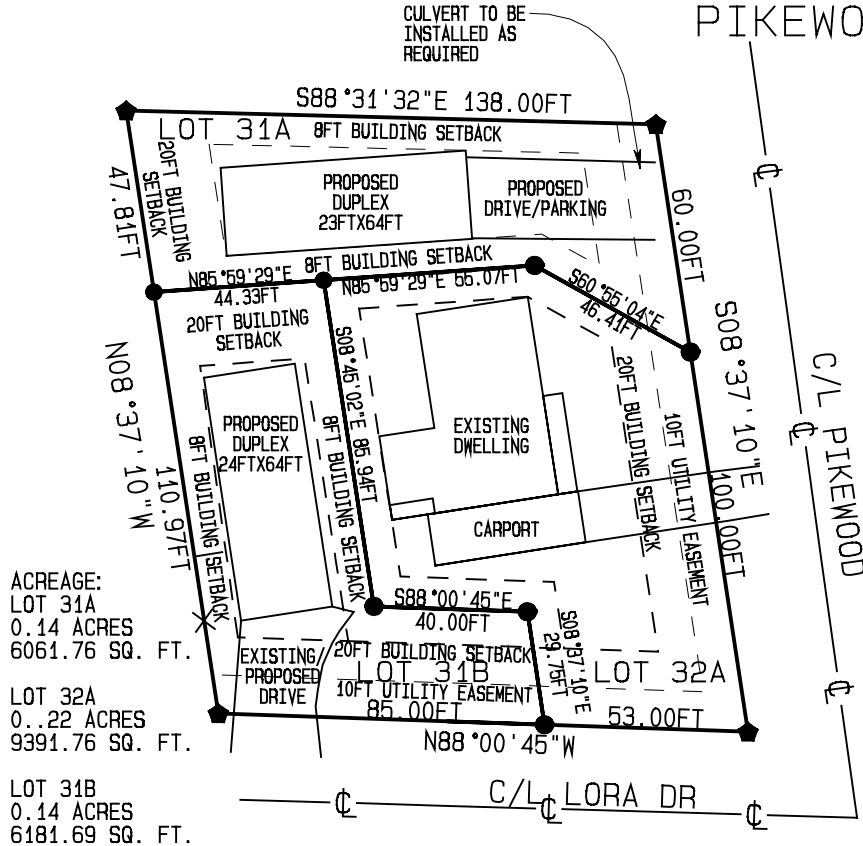
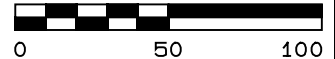
We, the undersigned, owners of the Real Estate, shown and described herein, do hereby certify that we caused to be laid off, platted, and subdivided, and do hereby layoff, plat, and subdivide said Real Estate in accordance with the Plat

Date of Execution

President: Maunish Shah  
Owner/Developer:  
Veer Investment Properties LLC  
12 Longwell Loop  
Little Rock AR 72211



BEARINGS BASED ON GRID  
NORTH BY GPS OBSERVATION  
SCALE 1"=50'



ACREAGE:  
LOT 31A  
0.14 ACRES  
6061.76 SQ. FT.

LOT 32A  
0.22 ACRES  
9391.76 SQ. FT.

LOT 31B  
0.14 ACRES  
6181.69 SQ. FT.

I hereby certify that the hereon plat and described survey was completed under my supervision to the best of my professional knowledge and ability.

Brian J. Watson  
BRIAN J. WATSON  
P.L.S. #1864

No investigation or other search was performed for easements or other records that an accurate and current title search may disclose

SOURCE OF TITLE  
SALINE COUNTY DOCUMENT#  
2023/007396

DATE: 3 JAN. 2024

JOB#23-64

SCALE: 1IN.=50FT.

DRAWN BY: BW



**FOR THE USE AND BENEFIT OF**  
VEER INVESTMENT PROPERTIES LLC

Symbol	Description
▲	COMPUTED
◆	REBAR
●	SET REBAR
—○—	CENTER LINE
—x—	FENCE (X) LINE
—	PROPERTY LINE

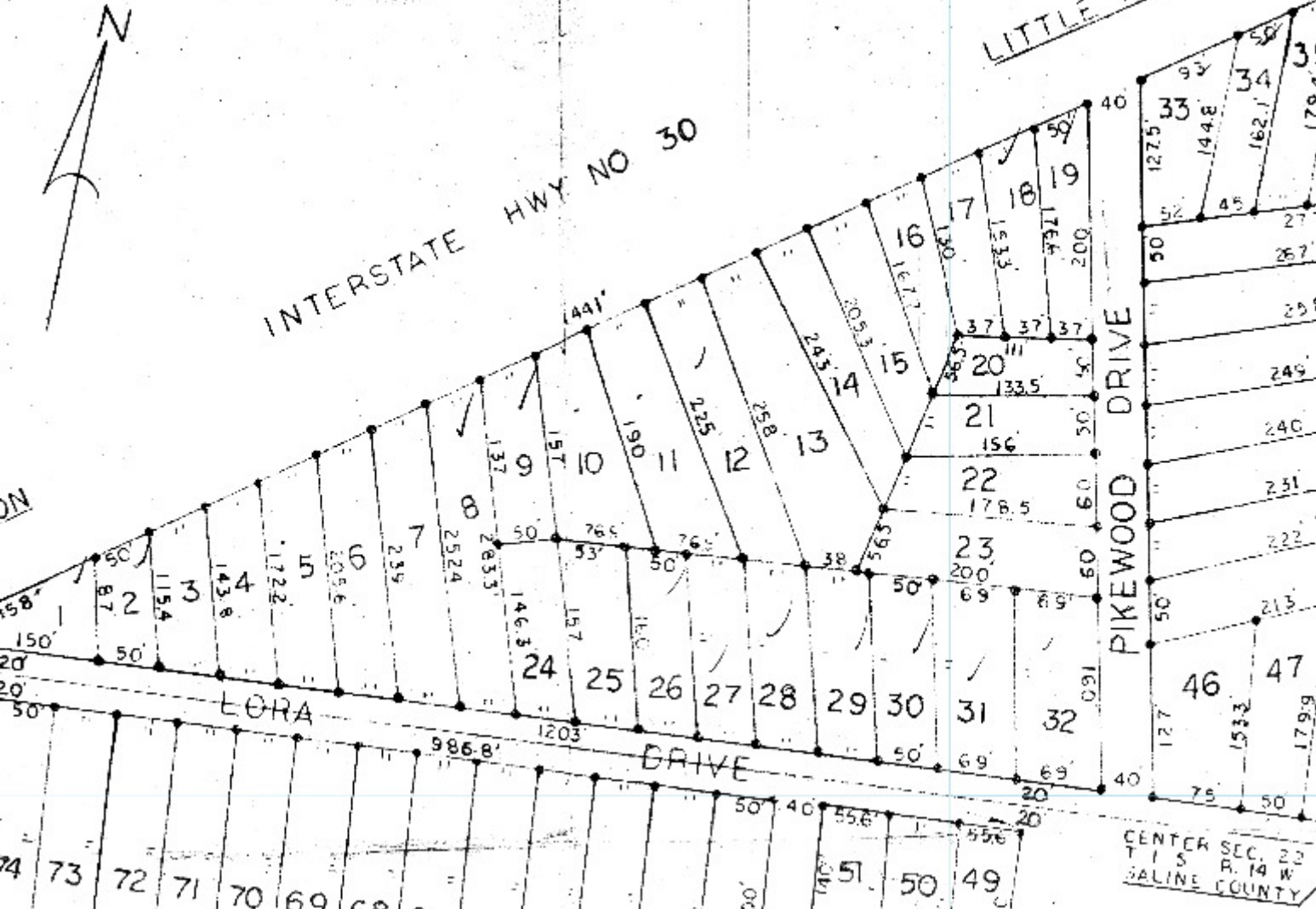




INTERSTATE HWY NO 30

LITTLE ROCK

ON



CENTER SEC. 22  
T 1 S R. 14 W  
SALINE COUNTY