Bryant Planning Commission Meeting

Boswell Municipal Complex - City Hall Court Room

210 SW 3rd Street

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

Date: June 13, 2022 - **Time:** 6:00 PM

Call to Order

Approval of Minutes

1. Planning Commission Meeting Minutes for 5/9/2022

- Planning Commission Meeting Minutes 5_9_2022.pdf

Announcements

Director's Report

DRC Report

2. 1925 Johnswood Rd - Rezoning

Penny Webb - Requesting Rezoning from R-E to R-M - RECOMMENDED APPROVAL, Based on Completing Requirements for Public Hearing

3. Buffalo Wild Wings - Alcoa Road - Sign Variance

Siez Sign Company - Requesting Approval for Variance on Pole Sign Height - RECOMMENDED APPROVAL

4. Vape City Smoke and Tobacco - Main Street - Sign Permit

L. Graphics - Requesting Sign Permit Approval - STAFF APPROVED

- 0562-APP-01.pdf

5. Splash Carwash - Reynolds Rd and Evans Loop

Phillip Lewis Engineering - Requesting Site Plan Approval and Approval for Modification from Code on Pedestrian Improvments - RECOMMENDED APPROVAL

6. Meramec Specialty Co - Fireworks - 6905 Hwy 5

Meramec Specialty Co - Requesting Approval for Temporary Business Permit - APPROVED

- 0550-APP-01.pdf

7. Bryant Family Clinic - 507 W Commerce - New Fencing

Scott Stone - Requesting Appproval for New Fencing

- 0552-PLN-01.pdf

8. Merchant and Farmers Bank - 3512 Hwy 5 - Outparcel Site Work

GarNat Engineering - Requesting Approval for Site Work to Outparcel - APPROVED

- 0553-PLN-02.pdf
- 0553-PLN-01.pdf

9. VN Nails - 3310 Main St - Sign Permit

Requesting Sign Permit Approval - STAFF APPROVED

- 0549-APP-02.pdf
- 0549-APP-01.pdf

10. Modern Storage - 300 Dell Dr - Sign Permit

Arkansas Sign and Banner - Requesting Sign Permit Approval - STAFF APPROVED

- 0554-APP-01.pdf

11. Pizza Hut - 3429 Marketplace Ave - Sign Permit

Ace Sign Company - Requesting Sign Permit Approval - STAFF APPROVED

- 0555-APP-02.pdf
- 0555-APP-01.pdf

12. Leap Kids Dental - 7409 Alcoa Road - Sign Permit

Cupples Sign Co - Requesting Sign Permit Approval - STAFF APPROVED

- 0557-APR-02.pdf
- 0557-APP-01.pdf

Public Hearing

13. 1925 Johnswood Rd - Rezoning

Penny Webb - Requesting Approval for Rezoning from R-E to R-M

- 0551-LTR-01.pdf
- 0551-PPB-01.pdf
- 0551-APP-02.pdf
- 0551-APP-01.pdf

Old Business

New Business

14. Buffalo Wild Wings - Alcoa Rd - Sign Variance

Siez Sign Company - Requesting Sign Varaince for Height of Pole Sign

- 0563-APP-01.pdf
- 0563-PLN-02.pdf
- 0563-PLN-01.pdf

15. Splash Carwash - Reynolds Rd and Evans Loop

Phillip Lewis Engineering - Requesting Site Plan Approval and Approval for Modification from Code on Pedestrian Improvments

- 0559-PLN-04.pdf
- 0559-SWPPP-01.pdf
- 0559-PLN-03.pdf
- 0559-DRN-02.pdf
- 0559-ELV-02.pdf
- 0559-APP-01.pdf

Adjournments

Bryant Planning Commission Meeting Minutes

Monday, May 9th, 2022
Boswell Municipal Complex – City Hall Courtroom
6:00 PM

Agenda

CALL TO ORDER

- Chairman Rick Johnson calls the meeting to order.
- Commissioners Present: Statton, Hooten, Johnson, Edwards, Erwin, Arey
- Commissioners Absent: Penfield, Burgess

ANNOUNCEMENTS

No Announcements.

APPROVAL OF MINUTES

1. **Planning Commission Meeting Minutes 4/11/2022**

   Motion to Approve Minutes made by Commissioner Statton, Seconded by Commissioner Edwards. Voice Vote, 6 Yays, 0 nays. 2 Absent.

Chairman Rick Johnson read the DRC Report.

DRC REPORT

1. **Church's Chicken - 1901 N Reynolds Road**

   Kimmley Horn and Associates - Requesting Site Plan Approval - APPROVED

2. **TNT Fireworks - 400 Bryant Ave**

   American Promotional Events - Requesting Approval for Temporary Business - APPROVED

3. **New Life Church - 4200 HWY 5 - Sign Permit**

   Pinnacle Signs - Requesting Sign Permit Approval for Re-installation of Monument Sign - STAFF APPROVED

4. **Bobalicious - 2900 Horizon Ave - Sign Permit**

   L Graphics - Requesting Sign Permit Approval - STAFF APPROVED

5. **Andres Gardens - Replat - Lot A**

   Rasbury Surveying - Requesting Approval for Replat of Lot A - APPROVED

6. **304 Reynolds Road - Parking Lot Addition**

   Hope Consulting - Requesting Approval for Site Plan - APPROVED, Contingent upon stormwater In-lieu of fee being paid

7. **Medic Sleep Care - 3348 Main St - Sign Variance**

   Sign Studio - Requesting Recommendation for Approval of Sign Variance - RECOMMENDED APPROVAL

8. **Hurricane Heights Lots 2-3 - Replat**

   Rasbury Surveying - Requesting Recommendation for Approval of Replat - RECOMMENDED APPROVAL

NEW BUSINESS

1. **Medic Sleep Care - 3348 Main St - Sign Variance**

   Sign Studio - Requesting Approval for Sign Variance

   After discussion on the item, Chairman Johnson Called for a roll call vote to approve. 4 yays, 2 nays (Hooten,Edwards), Penfield and Burgess Absent. Motion to Approve Failed due to not having enough yes votes to carry.

2. **Hurricane Heights Lots 2-3 - Replat**

   Rasbury Surveying - Requesting Approval for Replat

   After brief discussion on the item, Chairman Johnson Called for a roll call vote to approve. 6 yays, 0 nays, Penfield, Burgess Absent. Motion Passes.

DIRECTOR'S REPORT

Director Truett Smith spoke on the city's newest Tyler Software. Stated that the go live date of this software is scheduled for October of this year.

ADJOURNMENT

Motion to Adjourn made by Commissioner Statton, Seconded by Commissioner Edwards. Voice Vote, 6 Yays, 0 nays. 2 Absent. Meeting was adjourned.

_____ _____

Chairman, Rick Johnson *Date*

_____ _____

Secretary, Tracy Picanco *Date*

5/25/2022
Staff Approved CL
1 Sign

City of Bryant, Arkansas
Community Development
210 SW 3rd 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 under the Planning and Community Development tab.

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

Date: 5/23/2022

Sign Co. or Sign Owner

Name L.Graphics
Address 701 N. Reynolds Rd
City, State, Zip Bryant, AR 72022
Phone (501) 653-4444
Email Address Joe@LGraphix.com

Property Owner

Name Vape City Smoke Tobacco
Address 3411 Main St Suite 3
City, State, Zip Bryant, AR 72022
Phone ~~(501)~~ 909-754-7777
Email Address

GENERAL INFORMATION

Name of Business VAPCITY SMOKE TOBACCO
Address/Location of sign 3411 Main St Suite 3. Bryant, AR 72022
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

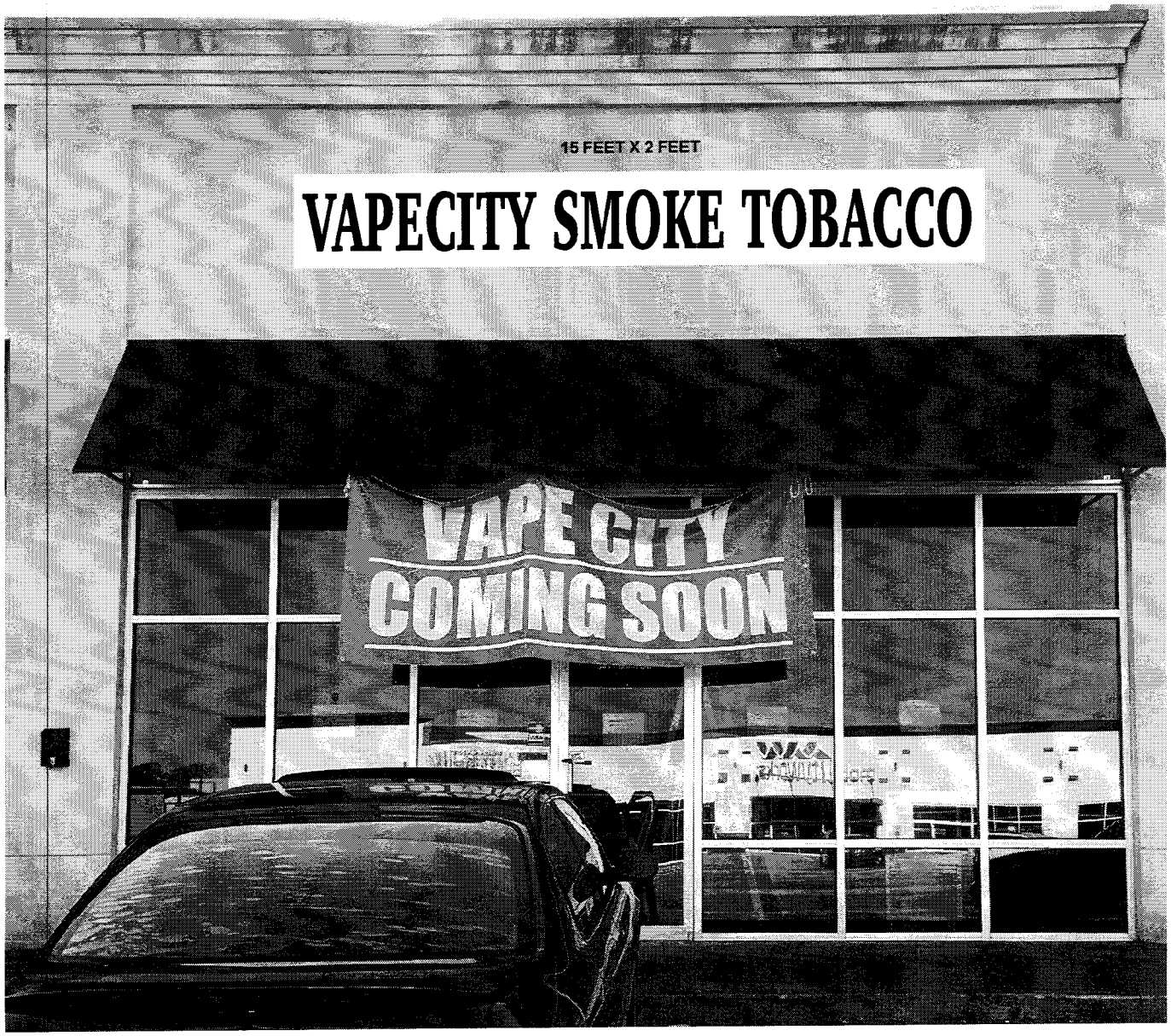
I Joe Lam, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. 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
	Wall ~~Mount Cab'nt~~	~~15' x 2'~~	30	Top of Sign	Bottom of Sign	
A	Wall mount Cab'nt	15' x 2'	30	16	14	
B						
C						
E						
F						
G						

22 feet


15 FEET X 2 FEET
VAPECITY SMOKE TOBACCO
VAPE CITY
COMING SOON

MERAMEC SPECIALTY COMPANY

April , 2022

Bryant Planning Commission
Bryant City Hall
210 SW 3rd Street
Bryant, AR 72022

RE: Fireworks application for 6905 Highway 5 in Bryant, AR

Bryant Planning and Building Department:

The purpose of this letter is to notify the Bryant Planning Commission that Meramec Specialty Company has permission to sell fireworks at 6905 Highway 5 North in Bryant, AR during the period of June 10, 2022 through July 10, 2022. This is the same location that Meramec Specialty Company has operated at during previous years. I have attached the following items that are required in order to receive a fireworks permit in Bryant, AR.

1. A temporary business license application.
2. $25.00 application fee.
3. A copy of our site plan.
4. A letter of permission from the property owner.
5. A copy of our Surety Bond
6. A copy of a State of Arkansas fireworks permit.

If you have any questions or comments, please email me at kbaileyar@aol.com or call me at 901.409.1884.

Best regards,

MERAMEC SPECIALTY COMPANY

Kevin A. Bailey

P.O. BOX 1150 WEST MEMPHIS, AR PH (870)735-1753 FAX (870)735-1793

Temporary Business Application
City of Bryant

Date 4-21-2022

Name of Business Meramec Specialty Co.

Federal Tax Employer Identification Number 43-0762804

Arkansas State Sales Tax Number 035048-18-001

Type of Business Retail Fireworks

Location of proposed Temporary Business 6905 Hwy 5N., Bryant, AR. 72072

Owner Mailing Address P.O Box 1150, West Memphis, AR. 72303

Contact Person Kevin Bailey

Daytime Phone No. (901) 409-1884

Evening Phone No. (901) 409-1884

Please check the category you are applying for. Permits cannot exceed the following time limits:

___	Carnivals	30 Days
X	Fireworks stands or tents	30 Days
___	Christmas tree stands, tents or lots	60 Days
___	General commercial sales stands, tents or lots	90 Days
___	Concession/Refreshment stands/Food Service	180 Days

Beginning Date Requested June 20 Ending Date Requested July 7

I understand violation of Temporary Business Ordinance 2007-43 is a misdemeanor punishable by a fine of up to $500.00 per occurrence of violation. Each day's occurrence is a separate violation. No temporary business may operate for more than 180 days during any consecutive 12-month period. Meramec Specialty Company

Owners Signature Kevin Bailey

CITY OF BRYANT – BRYANT, ARKANSAS
210 S.W. Third Street, Bryant, Arkansas
Phone: (501) 847-5559 (Ext 212) or FAX: (501) 847-5332

Privilege Fee Information
TEMPORARY BUSINESS LICENSE PERMIT

(WHEN FILLING IN THE BLANKS PLEASE PRINT OR TYPE IN INK)

A $1000.00 Surety Bond made payable to the city of Bryant is required for all applicants and must be received in this office and approved before any license will be issued.

Date: 4-21-22

Business Name: Meramec Specialty Co.
Location of Business: 6905 Hwy 5 N. Bryant, AR. 72072
Mailing Address: P.O. Box 1180
City: West Memphis State: AR. Zip Code: 72303
Business Telephone: 870-735-1753 Cellphone:

Type of License applied for: Fireworks Period license is desired: June 20 - July 7

Type of Business (Services offered or product sold): Fireworks

Applicants Name: Kevin Bailey
Applicants Home Address: 5505 Chesterfield Cove
City: Bartlett State: TN. Zip Code: 38134
Applicants Home Telephone: 901-409-1884 Cellphone: 901-409-1884

Name(s) of each employee/peddler/vendor/salesman: Phillip Montalvo

Address of business or premises to be used in Bryant: 6905 Hwy 5 N.

Last two cities worked in: 1. — 2. —

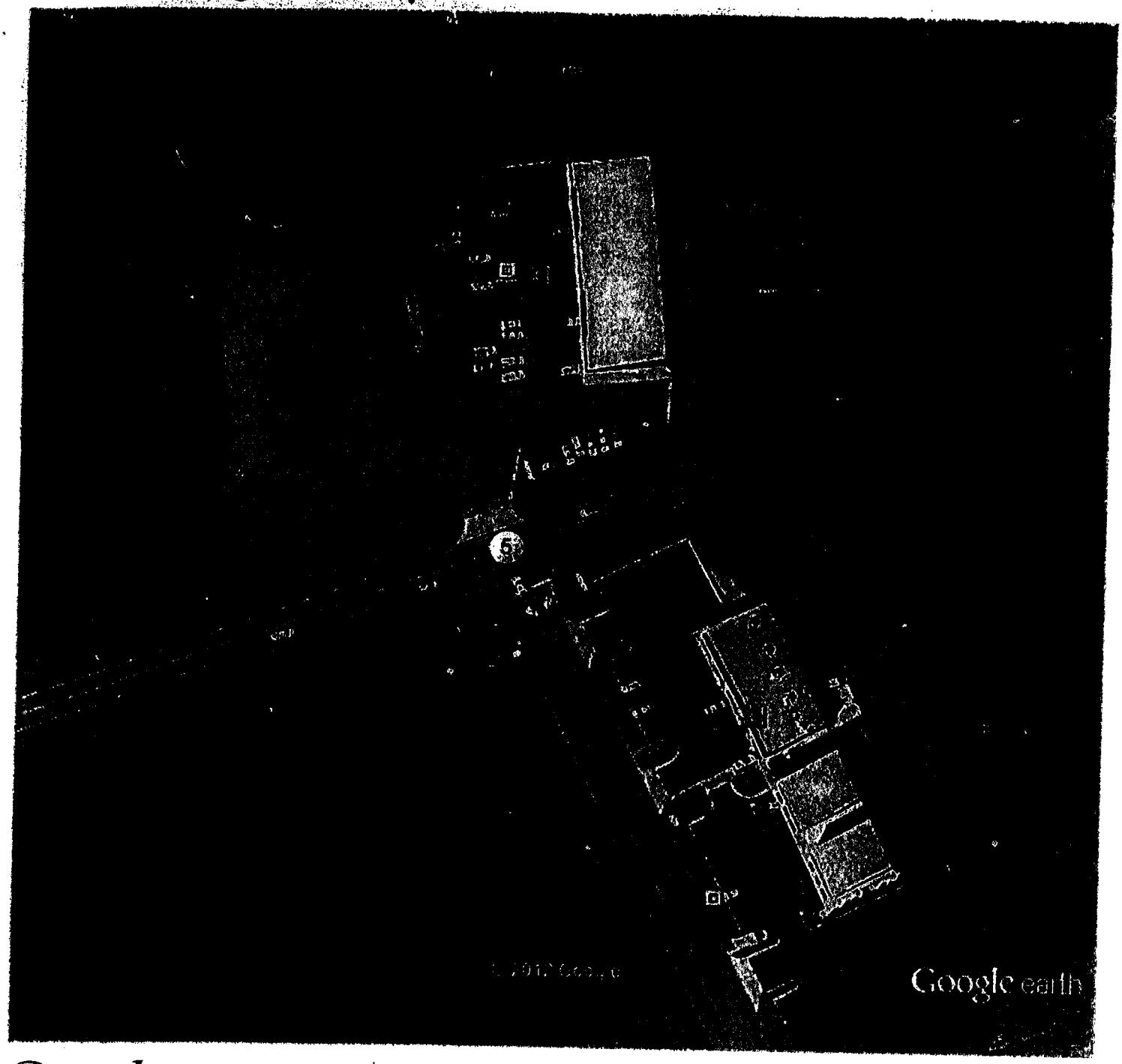
I hereby certify the above to be true and correct and state that I am operating a business in accordance with the city zoning regulations and/or any other city, state, or federal laws which may be applicable. I understand that if I am found to be in violation of any of the city zoning regulations and/or any other city laws, I may be subject to fines as outlined in any applicable City of Bryant Ordinance.

MERAMEC SPECIALTY COMPANY

Signature of Applicant

Bond Received and Approved
Signature of Designated City Official

6905 HWY. 5 N



Google earth

feet 400
meters 100

August 6, 2021

City of Bryant Planning Commission:

The purpose of this letter is to notify you that Meramec Specialty Company has permission to sell fireworks on my property during the period of June 15, 2022 through July 10, 2022. The physical address of the property is 6905 Highway 5 in Bryant, Arkansas.

Sincerely,

PINNACLE IMPROVEMENTS, LLC

Rick Jones

OUTDOOR MANAGEMENT DISPLAYS
P.O. BOX 91
ALEXANDER, AR 72002
Telephone 501.847.1000

August 23, 2021

Bryant Planning Commission:

The purpose of this letter is to notify you that Meramec Specialty Company has permission to sell fireworks on my property during the period of June 15, 2022 through July 10, 2022. The physical address of the property is 6905 Highway 5 in Bryant, Arkansas.

Sincerely,

OUTDOOR MANAGEMENT DISPLAYS

Billy Smith

WESTERN SURETY COMPANY • ONE OF AMERICA'S OLDEST BONDING COMPANIES

Western Surety Company

CONTINUATION CERTIFICATE

Western Surety Company hereby continues in force Bond No. 15146913 briefly described as TEMPORARY BUSINESS PERMIT CITY OF BRYANT, ARKANSAS, for MERAMEC SPECIALTY COMPANY, as Principal, in the sum of $ ONE THOUSAND AND NO/100 Dollars, for the term beginning May 20, 2022, and ending May 20, 2023, subject to all the covenants and conditions of the original bond referred to above.

This continuation is issued upon the express condition that the liability of Western Surety Company under said Bond and this and all continuations thereof shall not be cumulative and shall in no event exceed the total sum above written.

Dated this 6th day of April, 2022.

WESTERN SURETY COMPANY

By _____
Paul T. Bruflat, Vice President

WESTERN SURETY COMPANY CORPORATE SEAL SIOUX FALLS SOUTH DAKOTA

THIS "Continuation Certificate" MUST BE FILED WITH THE ABOVE BOND.

Form 90-A-8-2012

WESTERN SURETY COMPANY • ONE OF AMERICA'S OLDEST BONDING COMPANIES

0205

ARKANSAS STATE POLICE

REGULATORY and BUILDING OPERATIONS DIVISION

FIRE MARSHAL'S OFFICE

RETAIL FIREWORKS LICENSE - FEE $25.00

LICENSE EXPIRES JANUARY 6, 2023

This is to certify that the person named below is licensed to act as a RETAILER of FIREWORKS under the provision of Act 224 of 1961, as amended, State of Arkansas.

Name of Person Applying Kristi Loyd Telephone #: 870 735-175

Address of Person Applying 381 Front St. (Street) West Memphis (City) 72301 (Zip)

Name of Organization Meramec Specialty Co.

Address of the Stand Location 6139 Hwy 5N. (Street) Bryant (City) 72022 (Zip)

This license is issued to the person named above for use in making retail sales of PERMISSIBLE FIREWORKS from June 20 through July 10 and December 10 through January 5

This license is not transferable and must be DISPLAYED AT ALL TIMES.

Vendor: Atomic of Arkansas Date Issued: 4-11-22

License #: 801

Telephone #: (870) 735-1753

Major Lindsey Williams
Major Lindsey Williams
State Fire Marshal
Telephone (501) 618-8624

NOTICE: This license may be revoked by the State Fire Marshal or his deputies for violation of any of the provisions of the above referred to law.

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DRAYTON INSURANCE BROKERS, INC.

2500 CENTER POINT ROAD, SUITE 301
BIRMINGHAM, ALABAMA 35215
PHONE: (205) 854-5806
FAX: (205) 854-5899

POST OFFICE BOX 94067
BIRMINGHAM, ALABAMA 35220
EMAIL: dib@draytonins.com

CERTIFICATE OF INSURANCE

NO. 230502

We certify that insurance is afforded as stated below. This Certificate does not affirmatively or negatively amend, extend or alter the coverage afforded by the insurance policy and the insurance afforded is subject to all the terms, exclusions and conditions of the policy.

INSURER Admiral Insurance Company **POLICY NO.** CA000018967-09

NAMED INSURED
Atomic Fireworks Inc. of Arkansas
Atomic Fireworks Inc. of Missouri
Meramec Specialty Company
P.O. Box 305
Arnold, Missouri 63010

T.E.A. Enterprises, Inc.
Pacific Specialty Company
West Alton Properties, Inc
ATLG, LLC
ATLH, LLC

POLICY TERM March 1, 2022 to March 1, 2023; Both Days 12:01 A.M. Standard Time

COVERAGE Premises-Operations Liability: ☒ Occurrence Basis ☐ Claims Made Basis

LIMIT OF LIABILITY $1,000,000 each occurrence, $10,000,000 general aggregate
The limit of liability shall not be increased by the inclusion of more than one insured or additional insured.

INSURED OPERATIONS The sale of consumer fireworks (1.4G) and related products at the **Insured location**, during the **period of operation**.

It is certified that, for the period of operation stated below and when named below as such, this policy includes as Additional Insureds 1) the operator(s), sponsor(s), promoter(s), organizer(s), of the **Insured Premises** used principally for the retail sale of consumer fireworks supplied by the Named Insureds and/or 2) the owner(s), manager(s), tenant(s), mortgagee(s) (including other entities having similar interests), of the property on which the **Insured Premises** is located and/or 3) the licensing authority issuing a permit or license for the operation of the **Insured Premises** and/or 4) any entity for which the Named Insured is required, by written contract, to provide insurance such as is afforded by the terms of this policy.

NAME(S) OF ADDITIONAL INSURED(S)

Northside, LLC-Property Owner
Meramec Specialty Company-Stand Owner and Operator
Stand Manager and Sub-Operator
Licensing Authorities-State of Ar., City of Bryant

ADDRESS OF INSURED PREMISES An area measuring approximately 150' x 150' whose physical address is 6139 Hwy 5 N. in Bryant, Arkansas. #127A

PERIOD OF OPERATION March 1, 2022 through February 28, 2023

It is certified that this policy requires a 30 day mutual notice of cancellation between the Insurer and the Named Insured. In the event of such cancellation we will endeavor to mail 10 days written notice to the Additional Insured(s), whose name and address is shown hereon, but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer and/or the undersigned.

DRAYTON INSURANCE BROKERS, INC.

March 1, 2022
DATE OF ISSUE

A. J. STRINGER, PRESIDENT

DRAYTON INSURANCE BROKERS, INC.

2500 CENTER POINT ROAD, SUITE 301
BIRMINGHAM, ALABAMA 35215
PHONE: (205) 854-5806
FAX: (205) 854-5899

POST OFFICE BOX 94067
BIRMINGHAM, ALABAMA 35220
EMAIL: dib@draytonins.com

CERTIFICATE OF INSURANCE

NO. 230503

We certify that insurance is afforded as stated below. This Certificate does not affirmatively or negatively amend, extend or alter the coverage afforded by the insurance policy and the insurance afforded is subject to all the terms, exclusions and conditions of the policy.

INSURER Admiral Insurance Company **POLICY NO.** CA000018967-09

NAMED INSURED
Atomic Fireworks Inc. of Arkansas
Atomic Fireworks Inc. of Missouri
Meramec Specialty Company
P.O. Box 305
Arnold, Missouri 63010

T.E.A. Enterprises, Inc.
Pacific Specialty Company
West Alton Properties, Inc
ATLG, LLC
ATLH, LLC

POLICY TERM March 1, 2022 to March 1, 2023; Both Days 12:01 A.M. Standard Time

COVERAGE Premises-Operations Liability: ☒ Occurrence Basis ☐ Claims Made Basis

LIMIT OF LIABILITY $1,000,000 each occurrence, $10,000,000 general aggregate
The limit of liability shall not be increased by the inclusion of more than one insured or additional insured.

INSURED OPERATIONS The sale of consumer fireworks (1.4G) and related products at the **Insured location**, during the **period of operation**.

It is certified that, for the period of operation stated below and when named below as such, this policy includes as Additional Insureds 1) the operator(s), sponsor(s), promoter(s), organizer(s), of the **Insured Premises** used principally for the retail sale of consumer fireworks supplied by the Named Insureds and/or 2) the owner(s), manager(s), tenant(s), mortgagee(s) (including other entities having similar interests), of the property on which the **Insured Premises** is located and/or 3) the licensing authority issuing a permit or license for the operation of the **Insured Premises** and/or 4) any entity for which the Named Insured is required, by written contract, to provide insurance such as is afforded by the terms of this policy.

NAME(S) OF ADDITIONAL INSURED(S)

Pinnacle Improvements, LLC- Property Owner
Meramec Specialty Company-Stand Owner and Operator
Stand Manager and Sub-Operator
Licensing Authorities-State of Ar., City of Bryant

ADDRESS OF INSURED PREMISES An area measuring approximately 150' x 150' whose physical address is 6139 Hwy 5 N. in Bryant, Arkansas. #127B

PERIOD OF OPERATION March 1, 2022 through February 28, 2023

It is certified that this policy requires a 30 day mutual notice of cancellation between the Insurer and the Named Insured. In the event of such cancellation we will endeavor to mail 10 days written notice to the Additional Insured(s), whose name and address is shown hereon, but failure to mail such notice shall impose no obligation or liability of any kind upon the insurer and/or the undersigned.

DRAYTON INSURANCE BROKERS, INC.

March 1, 2022
DATE OF ISSUE

A.J. STRINGER, PRESIDENT

State of Arkansas

ARKANSAS SALES AND USE TAX PERMIT

MERAMEC SPECIALITY CO

P.O. BOX 1150

WEST MEMPHIS AR 72301

DATE ISSUED:

PERMIT NUMBER: 035048-18-00i

DLN:

DATE OPENED: 01/01/1965

SIC: 5042
TOYS AND HOBBY GOODS AND SUPPLIES

EXEMPTION: 81 THIS BUSINESS IS EXEMPT FROM SALES TAX ONLY FOR THE PURCHASES OF GOODS TO BE RESOLD IN THE NORMAL COURSE OF BUSINESS.

THIS PERMIT IS VALID UNTIL IT IS CANCELED AND SURRENDERED BY THE PERMIT HOLDER OR REVOKED BY THE COMMISSIONER OF REVENUES.

THIS PERMIT MUST BE SURRENDERED IF BUSINESS IS SOLD, DISCONTINUED OR LOCATION CHANGED.

WHEN THIS PERMIT IS SURRENDERED FOR ANY OF THE ABOVE REASONS, YOU MUST REPORT AND PAY ANY SALES OR USE TAX PLUS ANY PENALTIES OR INTEREST THAT IS OWED BY THIS BUSINESS. FAILURE TO PAY THESE TAXES WILL RESULT IN A LIEN BEING PLACED AGAINST THE STOCK AND FIXTURES OF THIS BUSINESS AND THE SAME IS ENFORCEABLE AGAINST PURCHASERS AND THIRD PARTIES.

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER

140.01

ISSUED BY

SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured

06/02/10

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC

CITY PINE BLUFF ADDRESS 3008 EVA DRIVE

STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006

☐ CAN/ULC-S109 ☐ CPAI-84 ☐ FMVSS-302

☐ A-A-55305

SNYDER MANUFACTURING INC. By Michael D. Fultz Title Supervisor, Quality Control

STYLE PRV 13109 WHITE 61" HI GLOSS

CONTROL NO. 18629

SNYDER S-ORDER NO. 216670 CUSTOMER ORDER NO. RAY

YARDS OR QUANTITY 375 DATE PROCESSED 06/02/10

DATE CERTIFIED 06/04/10

4.10-4-99F-R2

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER

140.01

ISSUED BY

SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured

06/02/10

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC

CITY PINE BLUFF ADDRESS 3008 EVA DRIVE

STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006

☐ CAN/ULC-S109 ☐ CPAI-84 ☐ FMVSS-302

☐ A-A-55305

SNYDER MANUFACTURING INC. By Michael D. Fultz Title Supervisor, Quality Control

STYLE PRV 13109 RED 61" HI GLOSS

CONTROL NO. 18564

SNYDER S-ORDER NO. 216670 CUSTOMER ORDER NO. RAY

YARDS OR QUANTITY 375 DATE PROCESSED 06/02/10

DATE CERTIFIED 06/04/10

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER
140.01

ISSUED BY
SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured
02/07/11

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC
ADDRESS 3008 EVA DRIVE
CITY PINE BLUFF
STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006 ☐ FMVSS-302
☐ CAN/ULC-S109 ☐ CPAI-84 ☐ A-A-55306

SNYDER MANUFACTURING INC. By Title Supervisor, Quality Control

STYLE PRV 13100 DARK BLUE 61" HI-GLOSS
CONTROL NO. 18347
SNYDER S-ORDER NO. 215565
YARDS OR QUANTITY 75
CUSTOMER ORDER NO. VBI RAY
DATE PROCESSED 02/07/11
DATE CERTIFIED 02/22/11

4.10-4-SFF-92

Certificate of Flame Resistance

REGISTERED FABRIC NUMBER
140.01

ISSUED BY
SNYDER MANUFACTURING, INC.
3001 PROGRESS STREET
DOVER, OHIO 44622

Date manufactured
01/06/11

This is to certify that the materials described below are flame-retardant and inherently nonflammable.

FOR RIVER CITY TENTS AND AWNING INC
ADDRESS 3008 EVA DRIVE
CITY PINE BLUFF
STATE AR 71602

☒ The articles described below are made from a flame-resistant fabric or material registered and approved by the State Fire Marshal for such use.

The Flame Retardant Process Used WILL NOT Be Removed By Washing

* FABRIC MEETS THE REQUIREMENTS OF THE SPECIFICATIONS LISTED BELOW INDICATED BY ☒

☐ NFPA-701 (Large Scale) ☐ MIL-C-43006 ☐ FMVSS-302
☐ CAN/ULC-S109 ☐ CPAI-84 ☐ A-A-55306

SNYDER MANUFACTURING INC. By Title Supervisor, Quality Control

STYLE PRV 13100 WHITE 61" HI GLOSS
CONTROL NO. 19254
SNYDER S-ORDER NO. 220003
YARDS OR QUANTITY 300
CUSTOMER ORDER NO. RAY
DATE PROCESSED 01/06/11
DATE CERTIFIED 01/21/11

4.10-4-SFF-92

Privacy fence in grass between curbs.

PRICING ONLY - NOT FOR CONSTRUCTION

A-1

SHEET NUMBER

10-148 PROJECT NUMBER

MAY 11, 2010 ISSUE DATE

REVISION DATE

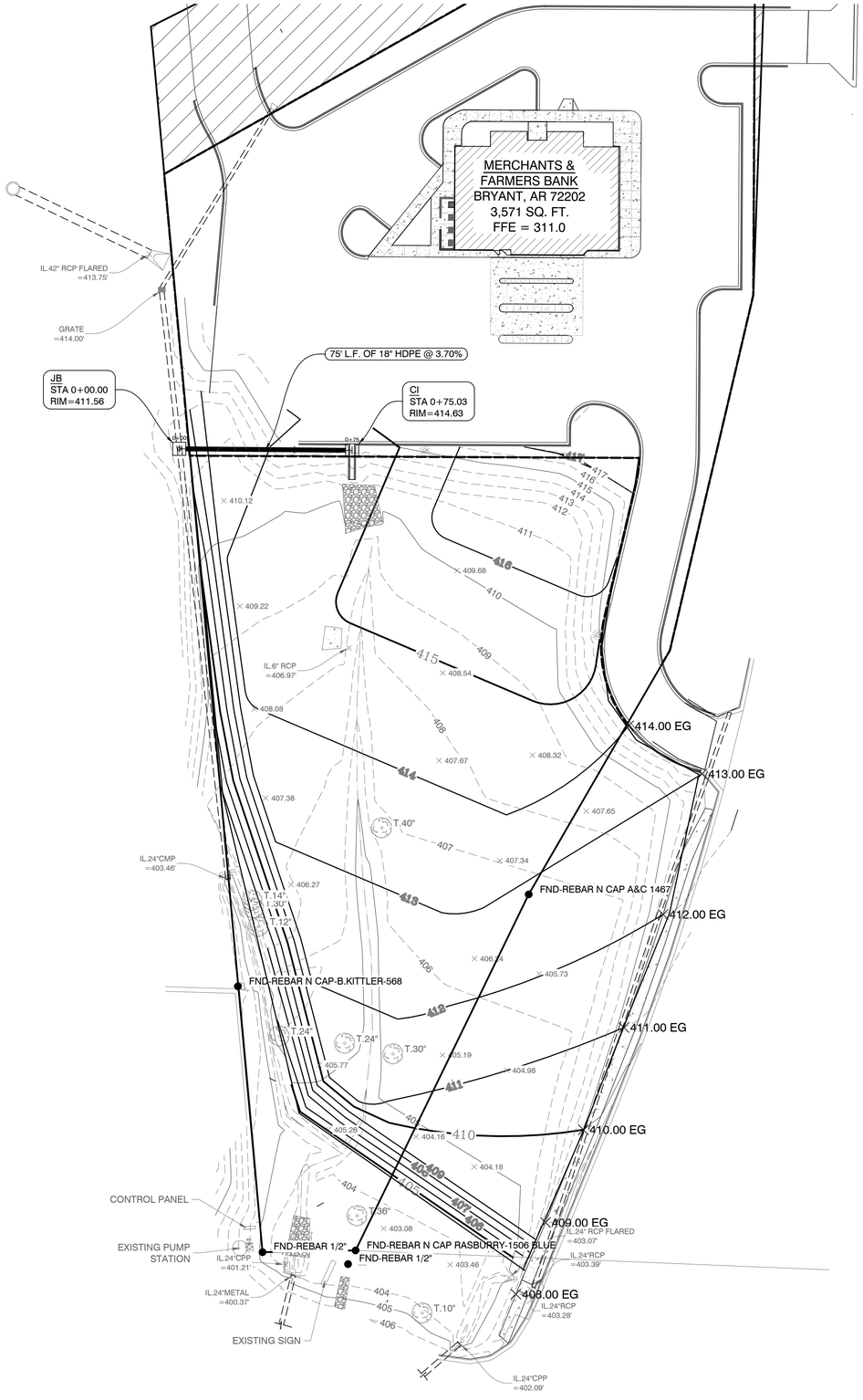
SITE PLAN SHEET TITLE

BRYANT FAMILY CLINIC
PHASE I
BRYANT, ARKANSAS

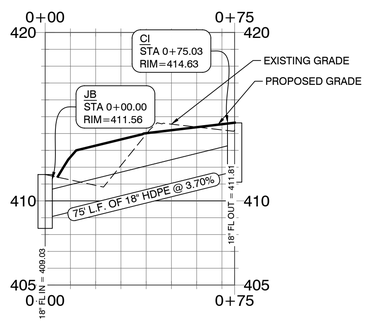
EIGHTEEN CORPORATE HILL DRIVE LITTLE ROCK, AR 72205 T 501.224.0870 F 501.224.0873

WILLIAMS & DEAN ASSOCIATED ARCHITECTS

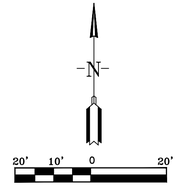
Primera toma de pulso
Mujeres curtos.



Proposed PROFILE



HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" =3'



DATE	REVISION	BY

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

MERCHANTS & FARMERS BANK
SOUTH TRACT
DRAINAGE IMPROVEMENTS
BRYANT, AR

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
NO. 9551
VERNON J. WILLIAMS

2-05-2020

CONTENTS:

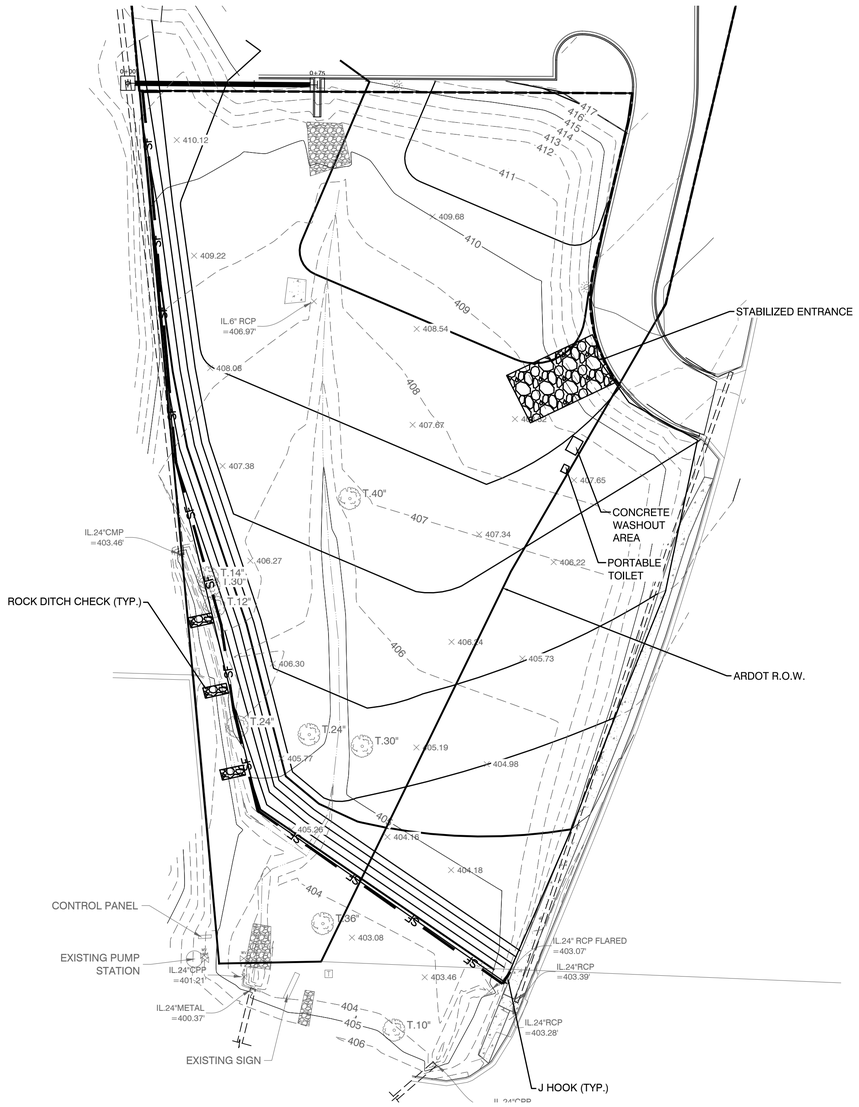
GRADING & DRAINAGE PLAN

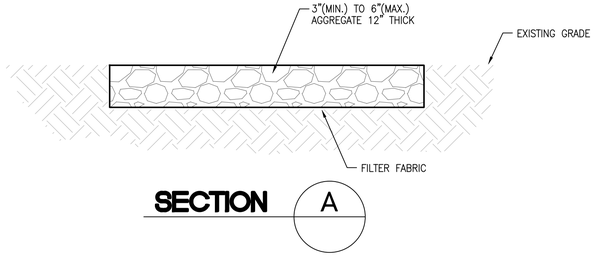
PROJECT NO:
20003

DATE:
JAN. 2020

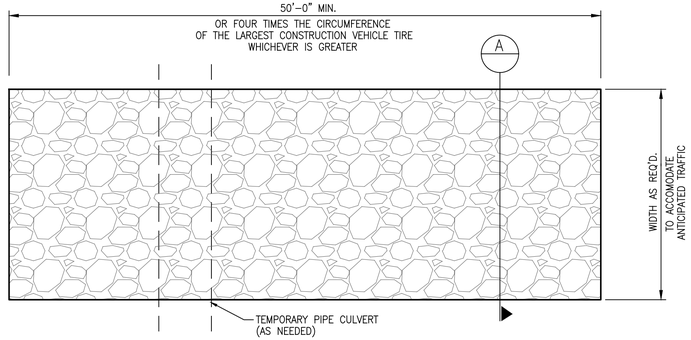
SHEET NO:
C1.0

a:\Projects\2020 Projects\20003 Merchants and Farmers Bank South Tract Payne\Drawings\Working\20003 Merchants and Farmers Bank South Tract Grading Plan 28-2.dwg





SECTION A



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

BMP NOTES:

1. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

2. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

3. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIAL SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.

5. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

6. IF THE ACTION OF VEHICLES TRAVELING OVER THE SITE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF OF THE SITE.

7. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

8. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

9. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

10. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

TOTAL SITE: 1.04 ACRES (INCLUDES R-0-W)

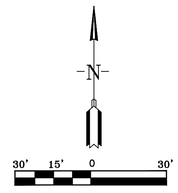
TOTAL DISTURBED AREA: 1.25 ACRES (INCLUDES R-O-W)

LEGEND:

500 EXISTING CONTOURS

DIRECTION OF OVERLAND FLOW

SF SILT FENCING



BY	DATE	REVISION

GNE Designing our client's success
GarNat Engineering, LLC
P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650
3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

MERCHANTS & FARMERS BANK
SOUTH TRACT
DRAINAGE IMPROVEMENTS
BRYANT, AR

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
VERNON J. WILLIAMS
5-03-2022

CONTENTS:

EROSION CONTROL PLAN

PROJECT NO: 20003

DATE: MAY 2022

SHEET NO: C4.0

J:\Projects\2003 Projects\20003 Merchants and Farmers Bank South Tract Bryant\Drawings\Office\Design\20003 Merchants and Farmers Bank South Tract Grading Plan 04-12.dwg

City of Bryant, Arkansas
Community Development
210 SW 3rd 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 under the Planning and Community Development tab.

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

Date: 04/06/2022

Sign Co. or Sign Owner

Name Viet Tram
Address 3310 Main ST #200
City, State, Zip BRYANT AR 72022
Phone 408 630 0402
Email Address Viettram799@Ayhoo.com

Property Owner

Name Viet Tram
Address 3310 Main ST #200
City, State, Zip Bryant AR 72022
Phone 408 630 0402
Email Address vietfram799@yahoo.com

GENERAL INFORMATION

Name of Business VN NAILS SPA

Address/Location of sign 3310 Main ST BRYANT AR 72022

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 _____, 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

1st Submittal → Too Large



7

24

2nd Submittal → Approved ✓



New Measurement

Spike

Capture



Measurements

Shape	Area	Perimeter	Dimensions
Area	48.3ft²	35' 3"	14' 3" x 3' 5" x 14' 3" x 3' 5"

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

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

Date: 04/06/2022

Sign Co. or Sign Owner

Name Viet Tram
Address 3310 Main ST #200
City, State, Zip BRYANT AR 72022
Phone 4086300402
Email Address Viettran799@AYhoo.com

Property Owner

Name Viet tram
Address 3310 Main ST #200
City, State, Zip Bryant AR 72022
Phone 4086300402
Email Address Viettram799@yahoo.com

GENERAL INFORMATION

Name of Business VN NAILS SPA
Address/Location of sign 3310 Main ST BRYANT AR 72022
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 _____, 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
	24 Fox 3 Fv	37m x 26m		Top of Sign	Bottom of Sign	
A		0.14	168			
B						
C						
E						
F						
G						



7

24

City of Bryant, Arkansas
Community Development
210 SW 3rd 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 under the Planning and Community Development tab.

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

Date: 3/8/22

Sign Co. or Sign Owner

Name Arkansas Sign & Banner
Address 1914 S Walton Blvd
City, State, Zip Bentonville, AR 72712
Phone 479-271-9722
Email Address lee@arkansassign.net

Property Owner

Name Modern Storage
Address 300 Dell Drive
City, State, Zip Bryant, AR
Phone 501-758-2441
Email Address alexandra@richcre.com

GENERAL INFORMATION

Name of Business Modern Storage
Address/Location of sign 300 Dell Drive
Zoning Classification C-3

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 Lee Reinhardt, 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	facade	424.43" x 48"	141.48	32'	28'	
B						
C						
E						
F						
G						

INSTALL ADDRESS: 300 DELL DRIVE, BRYANT, AR

PAGE: 1/1

FILE PATH:

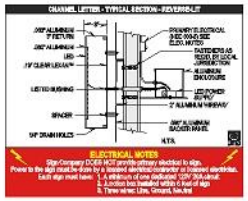
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DUE DATE: 00-00-2022

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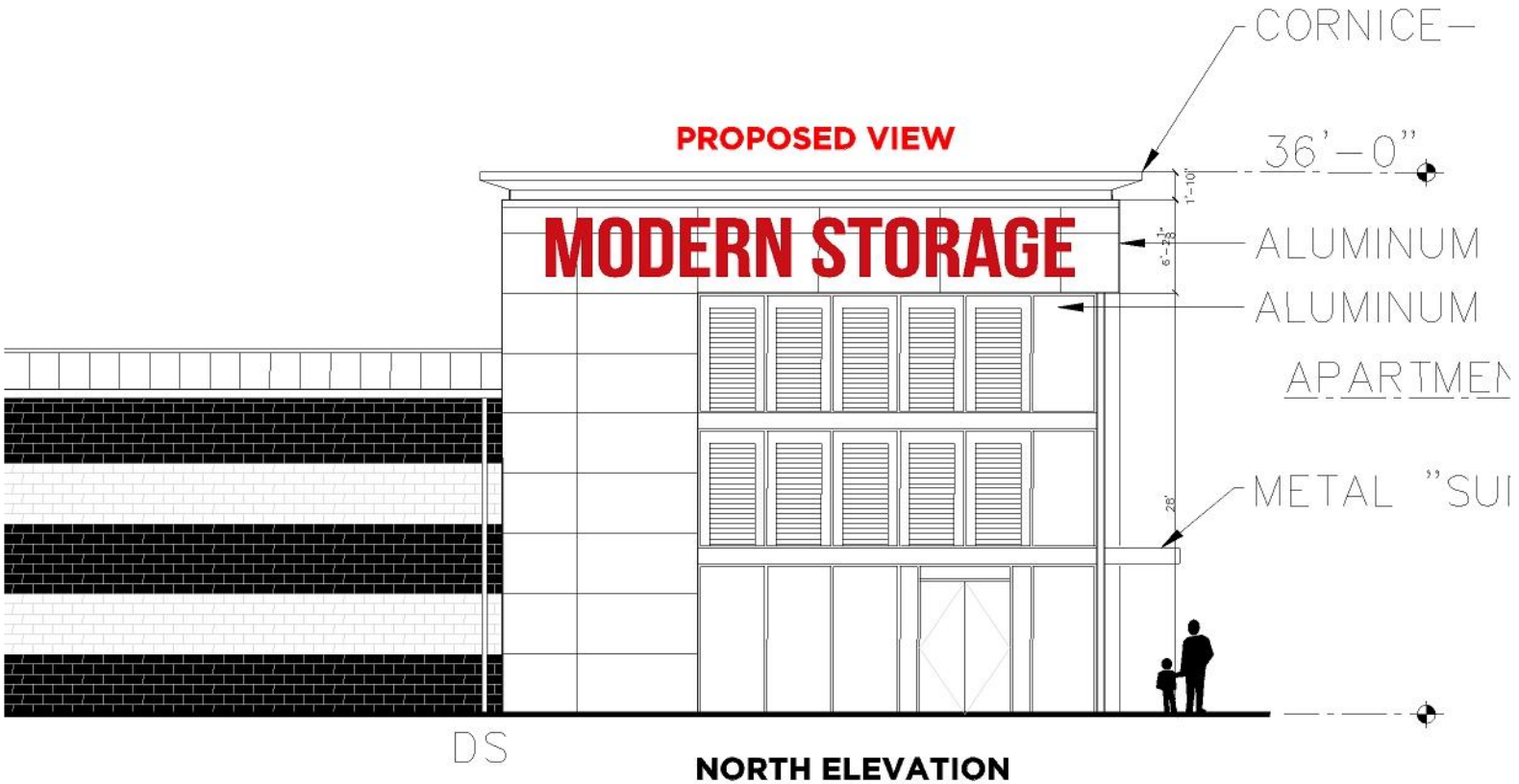
48 in

MODERN STORAGE

BUILDING SIGN
"MODERN"
- CHANNEL LETTERS
- HALO LIT
- ALUMINUM FACE
  - PAINTED - TBD
- ALUMINUM RETURNS
  - PAINTED - TBD
- RED LED
- RELIEF MOUNT



PROPOSED VIEW



NORTH ELEVATION

APPROVED BY: _____ DATE: _____

WE HAVE REVIEWED ALL SPELLING, SIZING, COLORS, QUANTITIES AND MATERIALS AND UNDERSTAND ALL REVISIONS AFTER APPROVAL WILL BE OUR RESPONSIBILITY.

Arkansas Sign & Banner | 1914 S. Walton Blvd. Ste. 4, Bentonville, AR | **479-271-9722** | www.arkansassign.net

ARKANSAS SIGN & BANNER
TYLER BOOTHE •tyler@arkansassign.net
479.271.9722

COMPANY:
MODERN STORAGE

CONTACT:
ALEXANDRA RICHARDSON

PHONE:
501-758-2441

EMAIL:
alexandra@rlchcre.com

BILL TO:
MODERN STORAGE

BUILDING SIGN
- ☐ SIZE: SEE PROOF
- ☐ SIDES: 1
- ☐ QUANTITY: 1
- ☐ LIT: HALO
- ☐ MOUNT: RELIEF

MATERIALS
- ☐ ALUMINUM
- ☐ ACRYLIC
- ☐ LED's
- ☐
- ☐

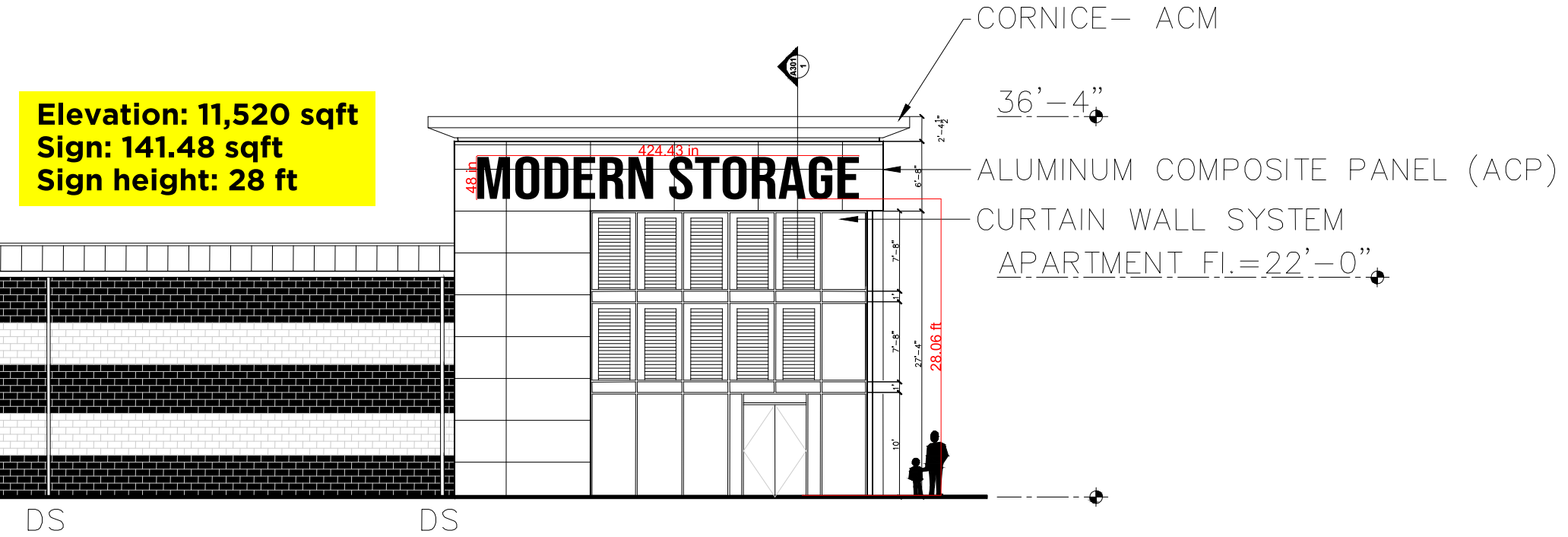
COLOR MATCH
- ☐ ARLON 2500-33
- ☐
- ☐
- ☐
- ☐

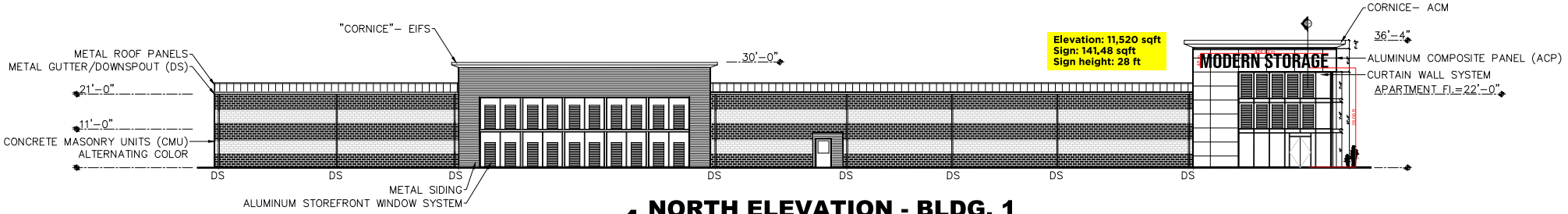
INSTRUCTIONS
- ☐ INSTALL ON BUILDING
- ☐
- ☐

These drawings reflect exactly what Arkansas Sign & Banner plans to fabricate for this project. **Please carefully review all pages, as these drawings supercede all prior written or verbal communications.** Arkansas Sign & Banner is responsible only for details of the job that are included in these drawings. If these drawings accurately represent this project, and you would like us to proceed with the job as drawn, please sign and date below, and email all pages back to your designer.

APPROVED ☐ REVISE ☐

Elevation: 11,520 sqft
Sign: 141.48 sqft
Sign height: 28 ft





1 NORTH ELEVATION - BLDG. 1

SC: 1/16"=1'–0"

Approved 1 Sign
5/11/22 CL

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943
community development@cityofbryant.com

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 under the Planning and Community Development tab.

Date: 5.3.22

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

Sign Co. or Sign Owner

Name Ace Sign Company
Address 11935 I 30
City, State, Zip Little Rock AR 72209
Phone 501-562-0800
Alternate Phone _____

Property Owner

Name Bart Ferguson Enterprises, LLC
Address 1100 Ferguson Drive
City, State, Zip Benton AR 72015
Phone 501-840-2282
Alternate Phone _____

GENERAL INFORMATION

Name of Business Pizza Hut
Address/Location of sign 3429 Market Place Ave, Bryant 72022
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 Joni Hodges, 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

Pizza Hut
Pg 2

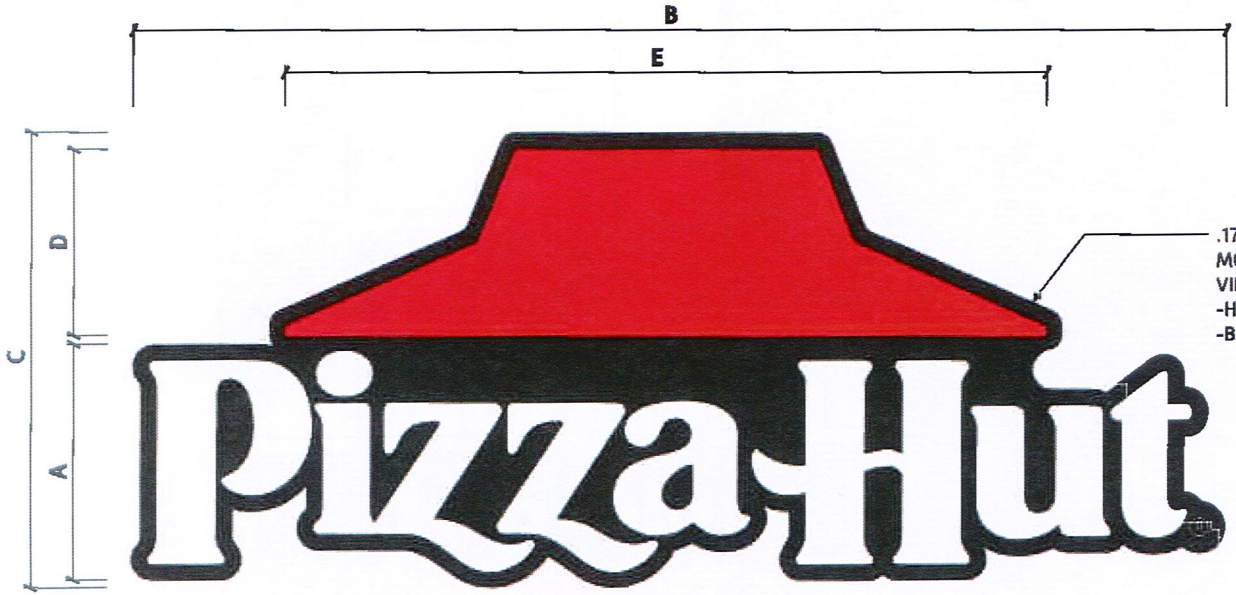
that no sign may be placed in public right of way. I understand that I must comply with all Building and Electrical Codes and that it is my responsibility to obtain all necessary permits.

5/3/22 Joni Hodges

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

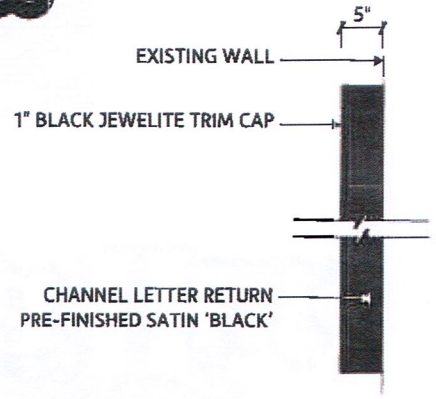
SIGN	Type (Façade, Pole, Monument, other)	Dimensions (Height, Length, Width)	Sqft (Measured in whole as rectangle)	Height of Sign (Measured from lot surface)		Column for Admin Certifying Approval
				Top of Sign	Bottom of Sign	
A	Wall cabinet	4' 4⅛" H 10' 5 15/16" L	46 Sq ft			
B		5" W				
C						
E						
F						
G						

NO1 27" ICONIC STACKED CLOUD



.177" 7328 TRANSLUCENT 'WHITE' IMPACT MODIFIED ACRYLIC W/ SURFACE APPLIED VINYL AS FOLLOWS:
-HAT IS 3M 3630-33 'RED' VINYL
-BACKGROUND IS 3M 7725-22 'BLACK' VINYL

FRONT ELEVATION



SIDE VIEW

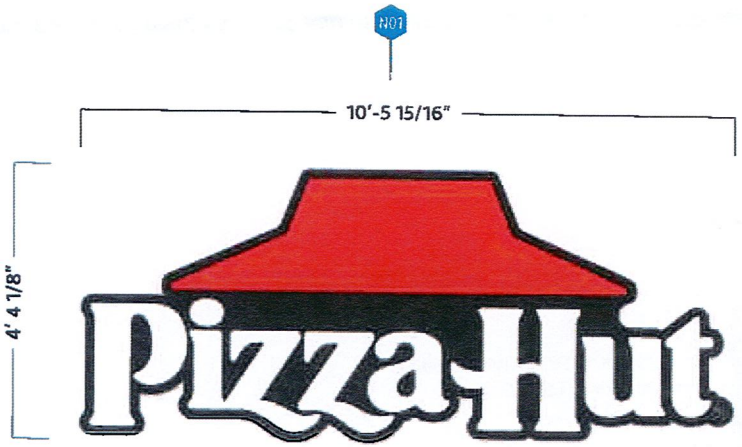
SIGN TYPE	A (LH)	B (OAW)	C (OAH)	D (HH)	E (HW)	SQ. FT.
ISC-FM-18	1'-6"	6'-11 15/16"	2'-10 3/4"	1'-2 3/16"	4'-10 7/16"	20.26
ISC-FM-21	1'-9"	8'-1 15/16"	3'-4 9/16"	1'-4 9/16"	5'-8 3/16"	27.59
ISC-FM-24	2'-0"	9'-3 15/16"	3'-10 5/16"	1'-6 15/16"	6'-5 15/16"	36.00
ISC-FM-27	2'-3"	10'-5 15/16"	4'-4 1/8"	1'-9 1/4"	7'-3 11/16"	45.59
ISC-FM-30	2'-6"	11'-7 15/16"	4'-9 15/16"	1'-11 5/8"	8'-1 7/16"	56.30
ISC-FM-33	2'-9"	12'-9 15/16"	5'-3 3/4"	2'-2"	8'-11 1/8"	68.15
ISC-FM-36	3'-0"	13'-11 15/16"	5'-9 1/2"	2'-4 3/8"	9'-8 7/8"	81.05

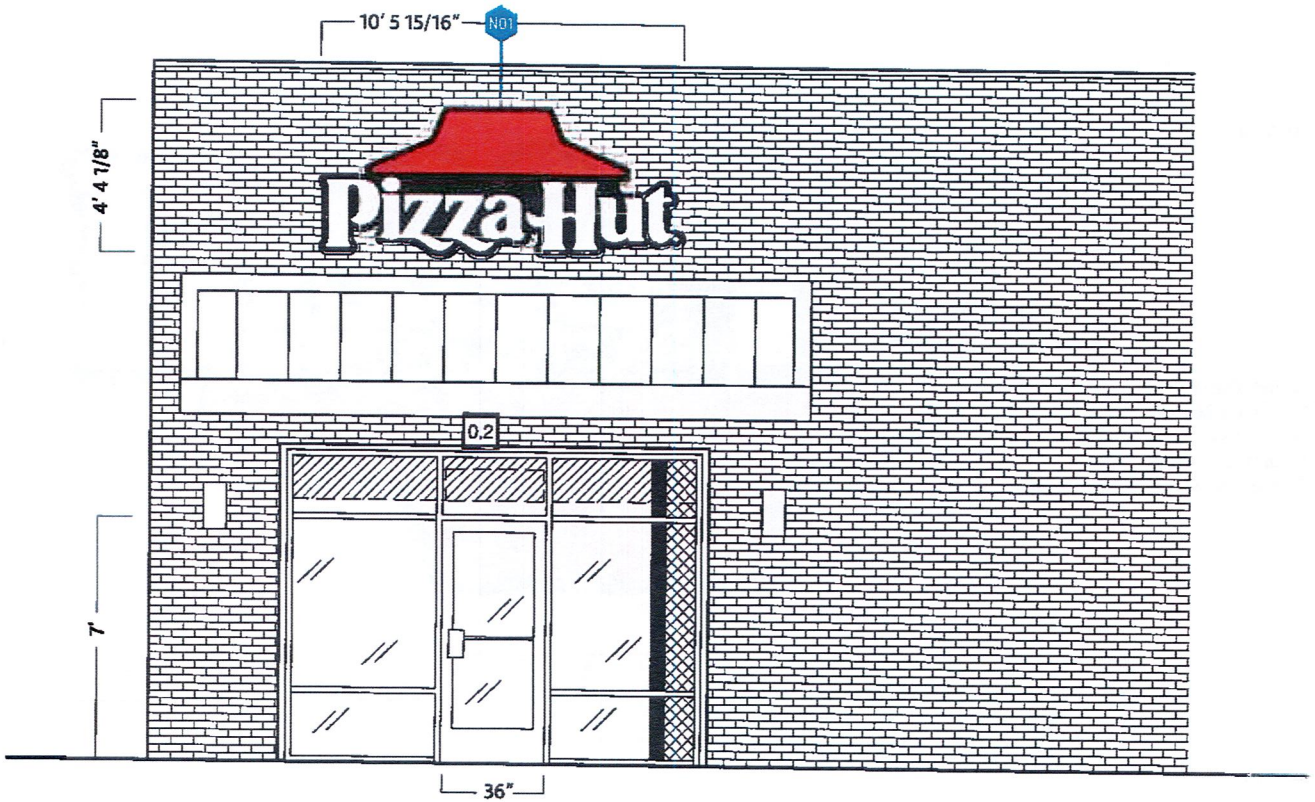
Scale: ??=??

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FRONT ELEVATION

	QTY.	CODE	DESCRIPTION
N01	1	ISC-FM-27	27" Iconic Stacked Cloud





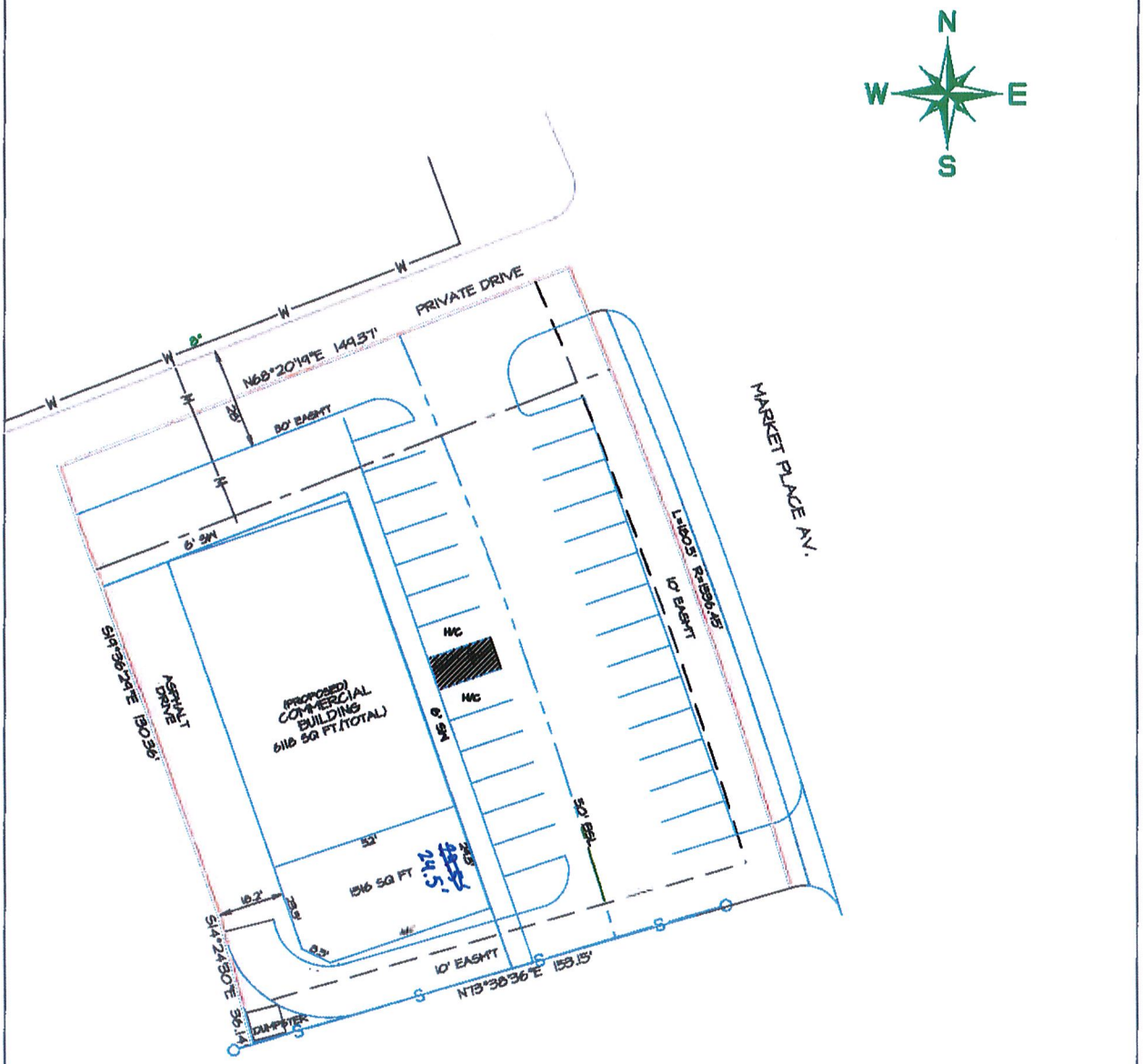
*Frontage is 24.5'

Scale: 3/16"=1'

AGI

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Pizza Hut



LEGAL DESCRIPTION
LOT 10, MARKET PLACE CENTER, PHASE 2, BYRANT, SALINE COUNTY, ARKANSAS.

DATE: 12-01-2021
GRAPHIC SCALE 1"=30'

0 30 60 90

PROFESSIONAL LICENSED SURVEYOR
STATE OF ARKANSAS
No. 1144
KERRY D. LANE

DRAWING NO. 076-21	REAL ESTATE SERVICES OF SALINE COUNTY, INC. 501-315-8866 lanesurveying@gmail.com	
REVISIONS BY / DATE	FOR USE AND BENEFIT OF:	DRAWN BY
	SITE PLAN MARKET PLACE CENTER	CHECKED BY
		APPROVED BY
	1200 FERGUSON DR., SUITE 5, BENTON, AR., 72015	
	STATE FILING CODE:	

CERTIFICATE OF AUTHORIZATION
REAL ESTATE SERVICES OF SALINE COUNTY INC.
No. 2023
ARKANSAS SURVEYOR

City of Bryant, Arkansas
Community Development
210 SW 3rd Street Bryant, AR 72022
501-943-0943
community development@cityofbryant.com

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 under the Planning and Community Development tab.

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

Date: 5.3.22

Sign Co. or Sign Owner

Name Ace Sign Company
Address 11935 I 30
City, State, Zip Little Rock AR 72209
Phone 501-562-0800
Alternate Phone _____

Property Owner

Name Bart Ferguson Enterprises, LLC
Address 1100 Ferguson Drive
City, State, Zip Benton AR 72015
Phone 501-840-2282
Alternate Phone _____

GENERAL INFORMATION

Name of Business Pizza Hut
Address/Location of sign 3429 Market Place Ave, Bryant 72022
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 Joni Hodges, 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

Pizza Hut
Pg 2

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.

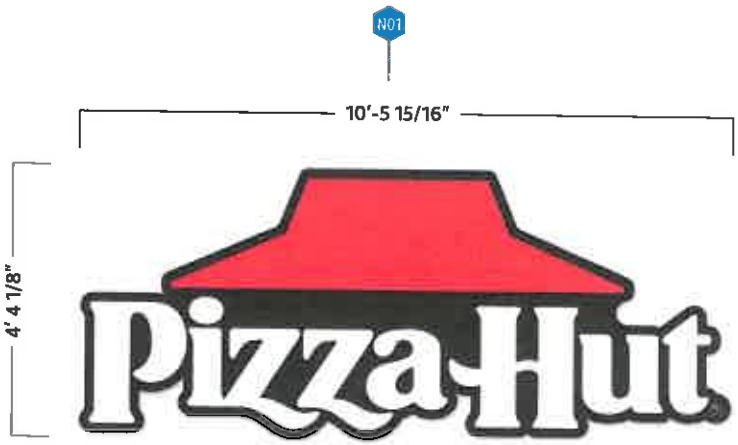
5/3/22 Joni Hodges

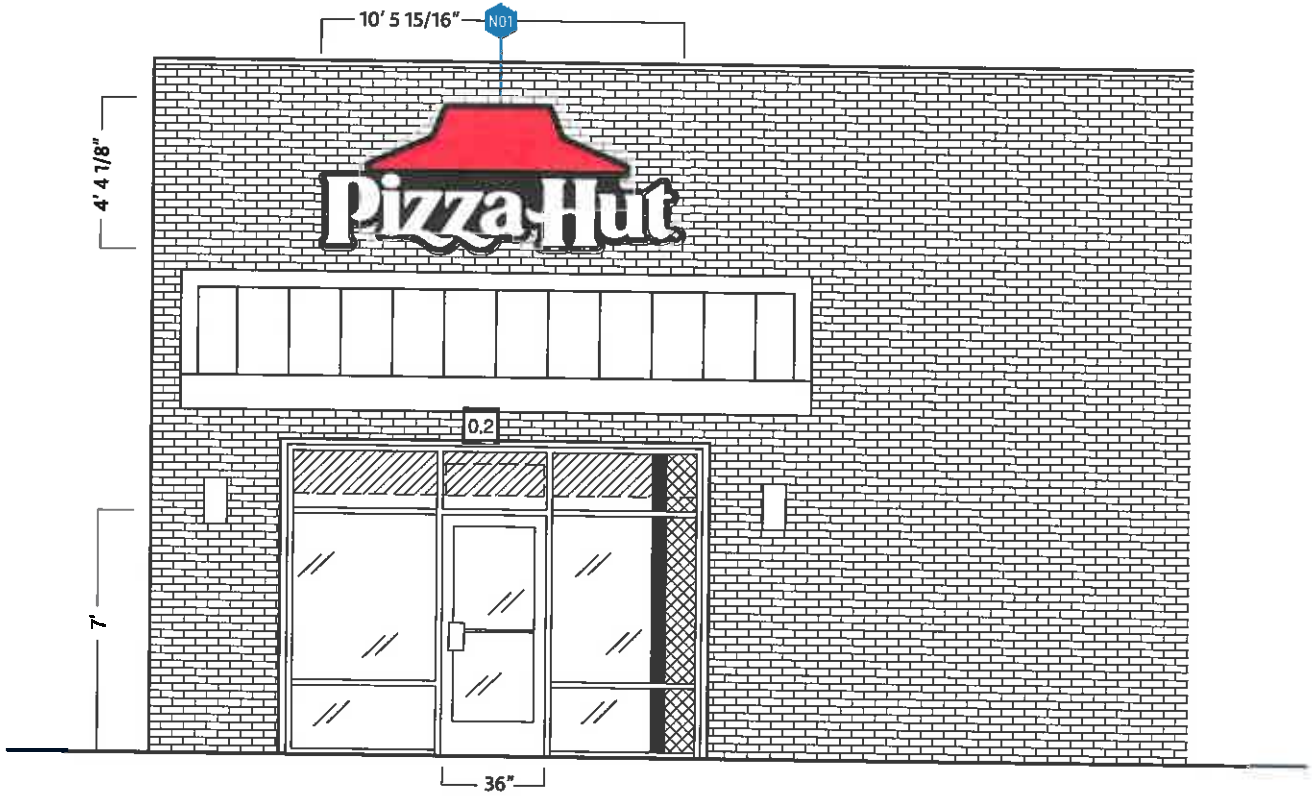
Use table below to enter information regarding each sign for approval. Please use each letter to reference each sign rendering.

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	Wall cabinet	4' 4 1/8" H 10' 5 15/16" L	46 Sq ft			
B		5" W				
C						
E						
F						
G						

FRONT ELEVATION

	QTY.	CODE	DESCRIPTION
N01	1	ISC-FM-27	27" Iconic Stacked Cloud

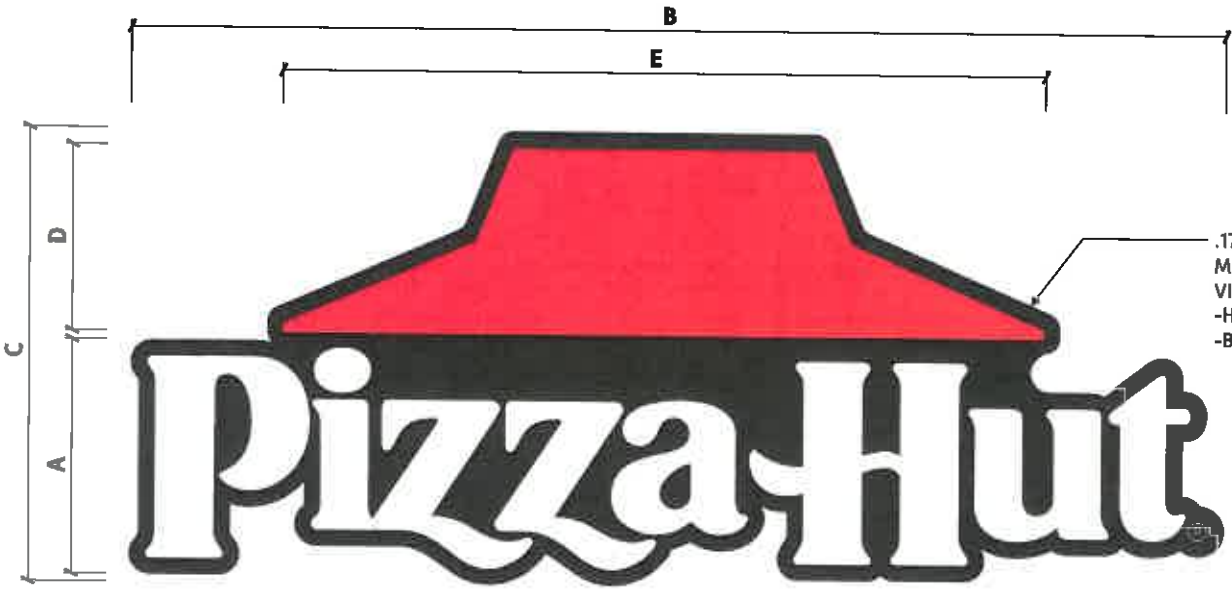




Scale: 3/16"=1'

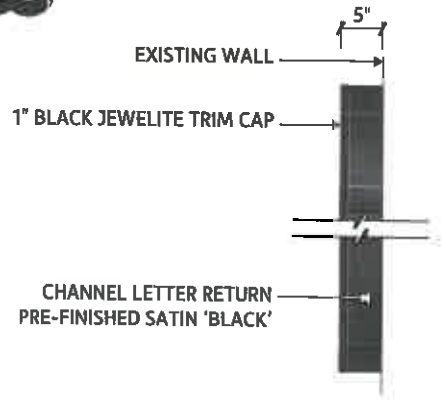
This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose, and the recipient, by accepting this document assumes custody and agrees that this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

NO1 27" ICONIC STACKED CLOUD



.177" 7328 TRANSLUCENT 'WHITE' IMPACT MODIFIED ACRYLIC W/ SURFACE APPLIED VINYL AS FOLLOWS:
-HAT IS 3M 3630-33 'RED' VINYL
-BACKGROUND IS 3M 7725-22 'BLACK' VINYL

FRONT ELEVATION



SIDE VIEW

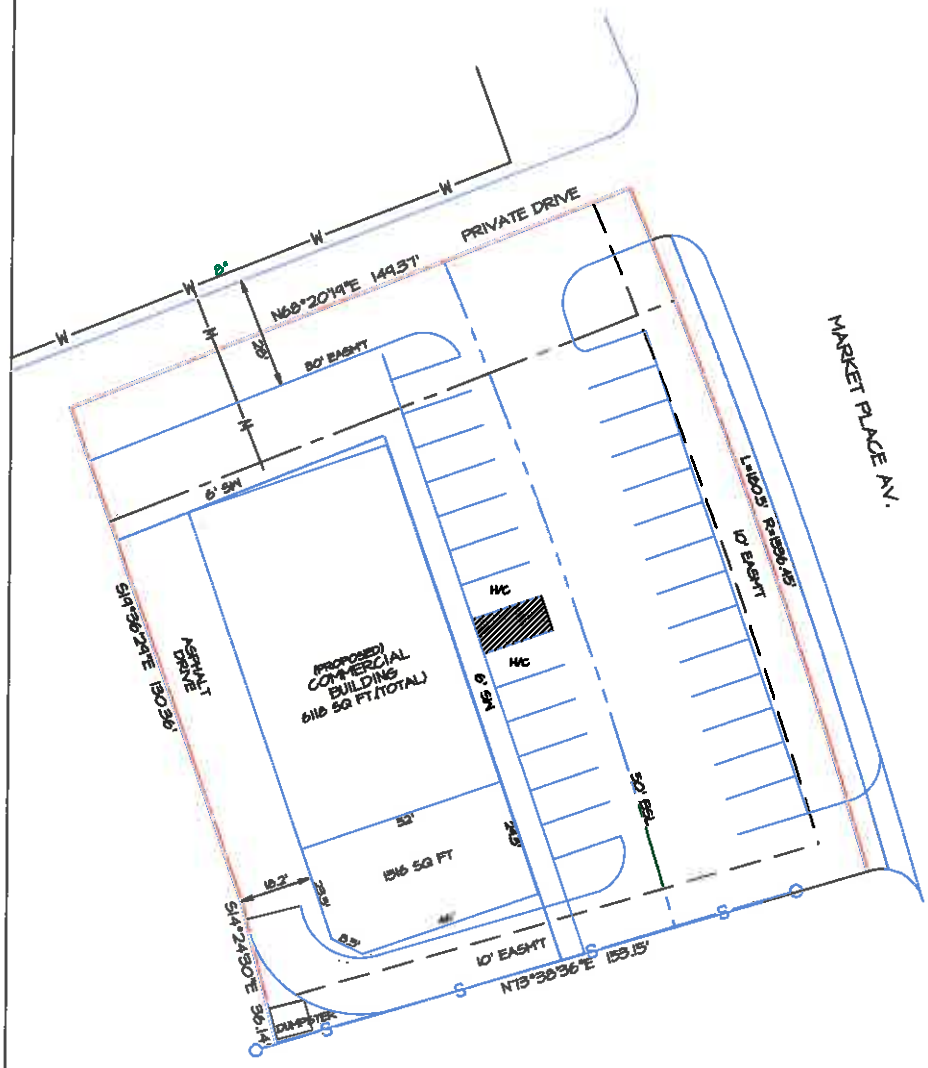
SIGN TYPE	A (LH)	B (OAW)	C (OAH)	D (HH)	E (HW)	SQ. FT.
ISC-FM-18	1'-6"	6'-11 15/16"	2'-10 3/4"	1'-2 3/16"	4'-10 7/16"	20.26
ISC-FM-21	1'-9"	8'-1 15/16"	3'-4 9/16"	1'-4 9/16"	5'-8 3/16"	27.59
ISC-FM-24	2'-0"	9'-3 15/16"	3'-10 5/16"	1'-6 15/16"	6'-5 15/16"	36.00
ISC-FM-27	2'-3"	10'-5 15/16"	4'-4 1/8"	1'-9 1/4"	7'-3 11/16"	45.59
ISC-FM-30	2'-6"	11'-7 15/16"	4'-9 15/16"	1'-11 5/8"	8'-1 7/16"	56.30
ISC-FM-33	2'-9"	12'-9 15/16"	5'-3 3/4"	2'-2"	8'-11 1/8"	68.15
ISC-FM-36	3'-0"	13'-11 15/16"	5'-9 1/2"	2'-4 3/8"	9'-8 7/8"	81.05

Scale: ??=??

AGI

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Pizza Hut



LEGAL DESCRIPTION
LOT 10, MARKET PLACE CENTER, PHASE 2, BYRANT, SALINE COUNTY, ARKANSAS.

DATE: 11-01-2021
GRAPHIC SCALE 1"=30'

0 30 60 90

PROFESSIONAL LICENSED SURVEYOR
STATE OF ARKANSAS No. 1144
KERRY D. LANE

DRAWING NO. 076-21	REAL ESTATE SERVICES OF SALINE COUNTY, INC. 501-315-8866 lanesurveying@gmail.com	
REVISIONS BY	FOR USE AND BENEFIT OF:	DRAWN BY
DATE	SITE PLAN MARKET PLACE CENTER	CHECKED BY
		APPROVED BY
	1200 FERGUSON DR., SUITE 5, BENTON, AR., 72015	
	STATE FILING CODE:	

CERTIFICATE OF AUTHORIZATION
REAL ESTATE SERVICES OF SALINE COUNTY INC.
No. 2023
ARKANSAS SURVEYOR

Approved 5/11/2022
1 Sign CL

City of Bryant, Arkansas
Community Development
210 SW 3rd 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 under the Planning and Community Development tab.

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

Date: 5-4-2022

Sign Co. or Sign Owner

Name Cupples Sign Co.
Address 208 Jones Rd.
City, State, Zip Paragould, AR 72450
Phone 870-236-8566
Email Address angie@cupplessigns.com

Property Owner

Name Alcoa Exchange LLC
Address 1855 Olympic Blvd, Ste. 300
City, State, Zip Walnut Creek, CA 94596
Phone 925-414-3381
Email Address wendy@hallequitiesgroup.com

GENERAL INFORMATION

Name of Business Leap Kids Dental
Address/Location of sign 7409 Alcoa Rd. #5
Zoning Classification C2

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.

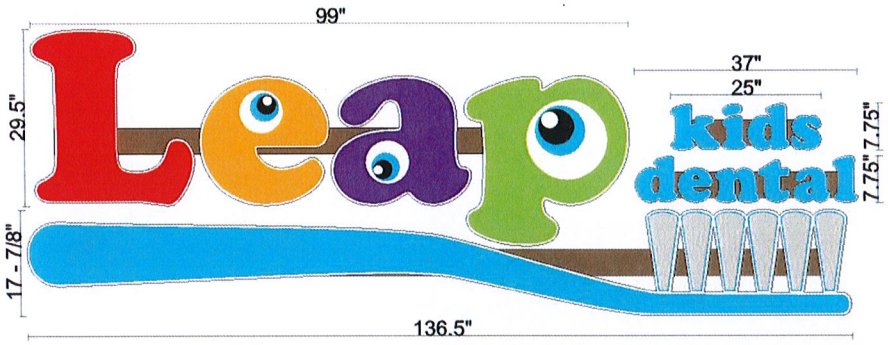
READ CAREFULLY BEFORE SIGNING

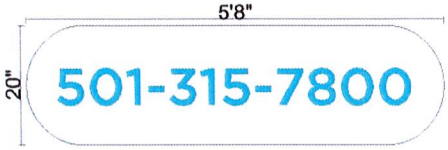
I Angie Cupples, do hereby certify that all information contained within this application is true and correct. I fully understand that the terms of the Sign Ordinance supersede the Sign Administrator's approval and that all signs must fully comply with all terms of the Sign Ordinance regardless of approval. 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

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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	Facade	4'x11'4.5"	46	19'3"	15'3"	CJ 5/11/2022
B						
C						
E						
F						
G						

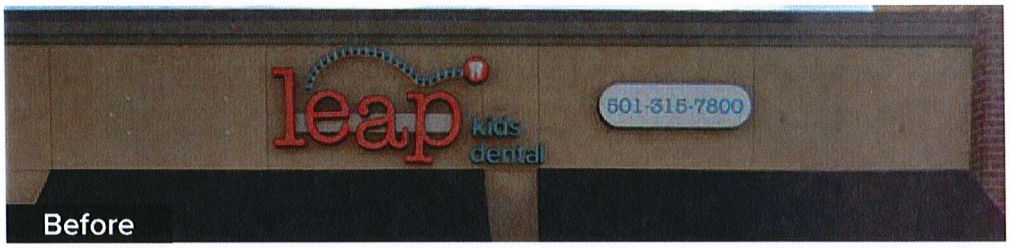


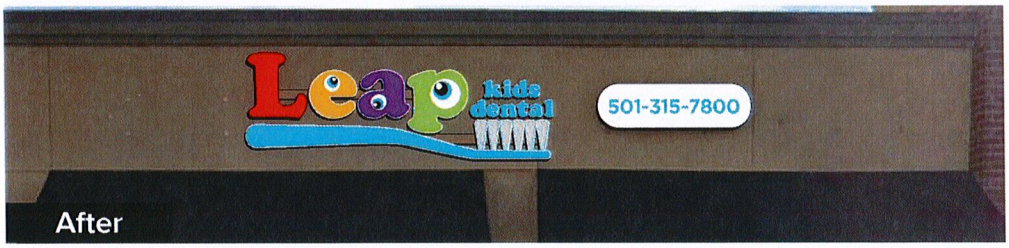


Standard Channel Letter & Logo
Black Returns & Black Trimcap
Translucent Vinyl on Acrylic Faces
LED Illumination

Raceway Mounted

1 SET REQUIRED





Raceway

SW 9096
Beige Intenso

CUPPLES SIGN COMPANY

ARTWORK MAY NOT BE REPRODUCED
© 2018 Cupples Sign Company

208 Jones Road
Paragould, AR 72450
Phone: 870-236-8566
Fax: 870-236-8722

MSSA

DISCLAIMER

DUE TO MANUFACTURING PROCESSES AND MATERIAL SIZES, FINISHED PRODUCTS MAY VARY. PRIMARY ELECTRICAL RUNS & CONNECTIONS TO BE FURNISHED BY OTHERS.

BEFORE YOU APPROVE THIS PROOF, PLEASE READ ALL COPY CAREFULLY AND COMPLETELY. CHECK FOR SPELLING ERRORS, COPY OMISSIONS, AND COLOR OR DESIGN DETAILS. CUPPLES SIGN COMPANY WILL BE RESPONSIBLE FOR ANY ERRORS WHICH ARE NOT MARKED ON THIS PROOF. ANY CHANGES DESIRED DURING PRODUCTION, DUE TO MISTAKES AFTER APPROVAL OF THIS PROOF WILL BE AT THE EXPENSE OF THE CUSTOMER.

Customer: Leap Kids Dental		Address: 7409 Alcoa Road #5	
Location: Bryant, AR 72022		Drawing #: LeapKids_AlcoaRd-Bryant_CL	
Designer: Lexie Lane	Date: 04/26/2022	Scale: NTS	Page: 1 of 1
Approved:		5/2/22	
Approved By		Approved Date	

- Suite Width ~ 40 Ft sqft Allowed - 80 sqft
- Total Shown with both Signs → 72.83 sqft
  (Measured as a Whole Rectangle - All Portions)

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

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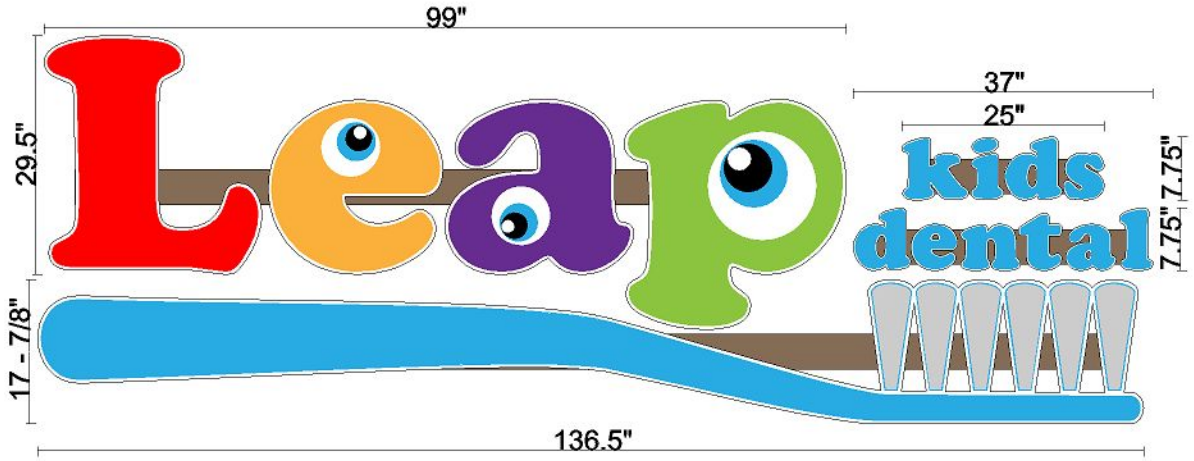
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C						
E						
F						
G						





Standard Channel Letter & Logo
Black Returns & Black Trimcap
Translucent Vinyl on Acrylic Faces
LED Illumination

Raceway Mounted

1 SET REQUIRED





Raceway

SW 9096
Beige Intenso

CUPPLES SIGN COMPANY
208 Jones Road
Paragould, AR 72450
Phone: 870-236-8566
Fax: 870-236-8722

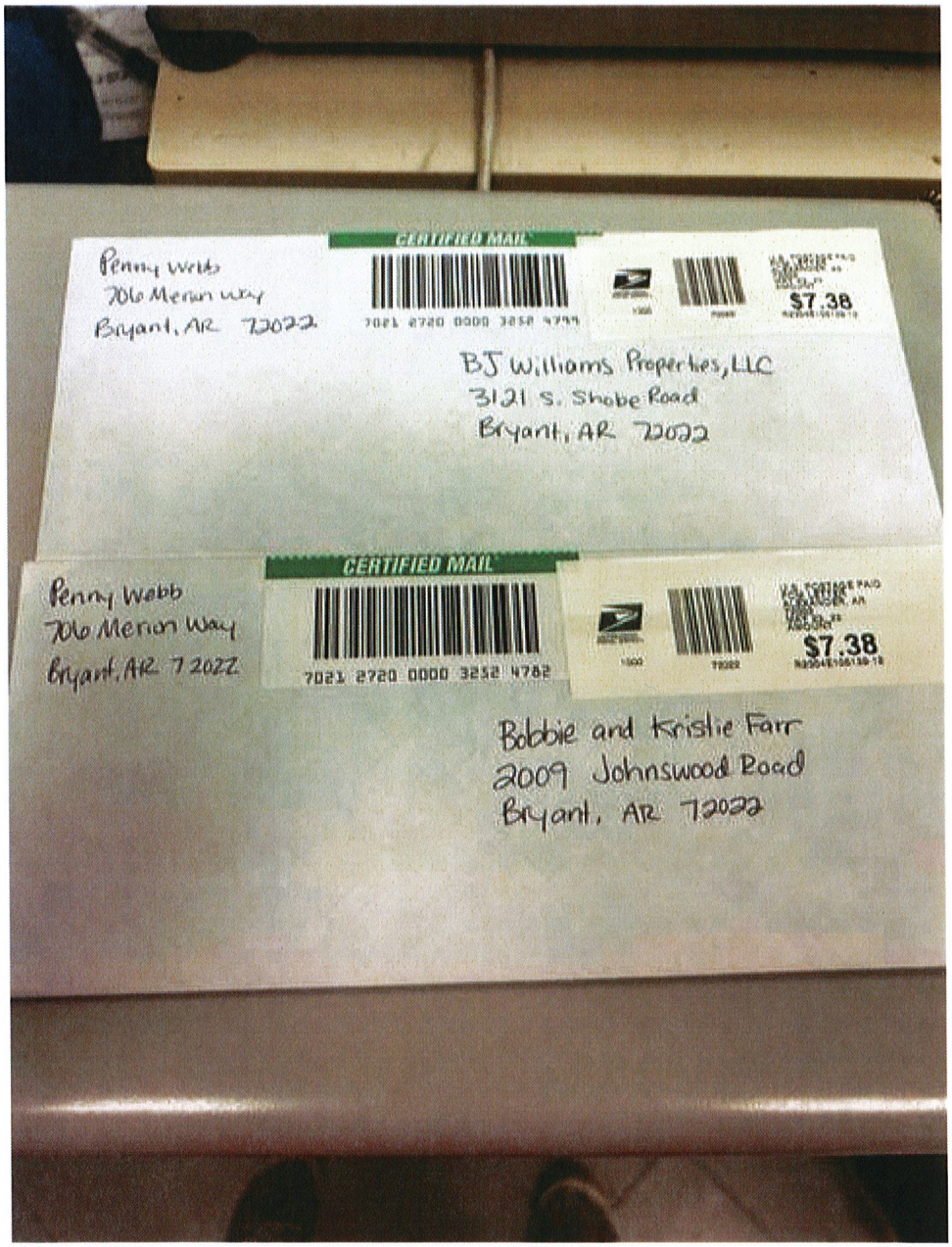
ARTWORK MY NOT BE REPRODUCED
© 2013 Cupples Sign Company

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Designer: Lexie Lane	Date: 04/26/2022	Scale: NTS	Page: 1 of 1
Approval: Approved By		5/2/22 Approval Date	


CERTIFIED MAIL
Penny Webb
706 Merion Way
Bryant, AR 72022
7021 2720 0000 3252 4799
$7.38
BJ Williams Properties, LLC
3121 S. Shobe Road
Bryant, AR 72022
CERTIFIED MAIL
Penny Webb
706 Merion Way
Bryant, AR 72022
7021 2720 0000 3252 4782
$7.38
Bobbie and Kristie Farr
2009 Johnswood Road
Bryant, AR 72022

Product Tracking & Reporting

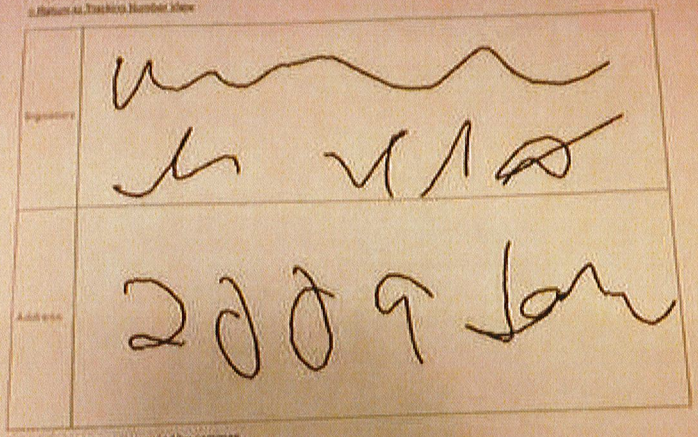
USPS Tracking Intranet

Delivery Signature and Address

Tracking Number: 7021 2720 0000 3252 4782

This item was delivered on 05/25/2022 at 14:31:00

« Return to Tracking Number View



Enter up to 35 items separated by commas

Select Search Type: Quick Search Submit

Product Tracking & Reporting, All Rights Reserved
Version: 22.3.2.0.56

Tracking Number: 70212720000032524799

Remove ×

Your item was delivered to an individual at the address at 10:51 am on May 25, 2022 in BRYANT, AR 72022.

USPS Tracking Plus® Available ∨

Status

Delivered, Left with Individual

May 25, 2022 at 10:51 am
BRYANT, AR 72022

Get Updates ∨

Delivered

Tracking Number: 70212720000032524782

Remove ×

Your item was delivered to an individual at the address at 2:31 pm on May 25, 2022 in BRYANT, AR 72022.

USPS Tracking Plus® Available ∨

Status

Delivered, Left with Individual

May 25, 2022 at 2:31 pm
BRYANT, AR 72022

Get Updates ∨

Delivered

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BJ Williams Properties, LLC
3121 S. Shobe Road
Bryant, AR 72029

9590 9402 7065 1225 7117 44

2. Article Number *(Transfer from service label)*

7021 2720 0000 3252 4799

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Billie Williams ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Billie Williams

C. Date of Delivery 5/25/22

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

Proof of Publication

STATE OF ARKANSAS
County of Saline

I, Kristi Finley, do solemnly swear that I am Legal Advertising Clerk for The Saline Courier, a daily newspaper printed in said county, and that I was such at the date of publication hereinafter stated, and that said newspaper had a bona fide circulation in such county at said dates, and has been regularly published in said county since the year 1876 before the date of the first publication of the advertisement hereto annexed, and that said advertisement was published in said newspaper 1 times for 1 issues, the first insertion therein having been made on 5.27.22, and the last insertion on 5.27.22.

Billed Account Clayton Homes-Legals

Ad Number 116521

Kristi Finley
Legal Advertising Clerk

Sworn to and subscribed before me on 5.27.22

Julie Allbritton
Notary Public

JULIE ALLBRITTON
Notary Public - Arkansas
Saline County
Commission # 12386497
My Commission Expires Feb 22, 2032

FEE FOR PRINTING

$ 46.80 Cost of Notice
$ 2.60 Cost of Proof
$ 49.40 Total

Legal Notice

NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, **June 13, 2022** 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 **1925 Johnswood Rd. Bryant, AR 72022**. 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

Advertising Receipt

Saline Courier
PO Box 207
Benton AR 72018

Phone: (501) 315-8228
Fax: (501) 315-1920

Clayton Homes-Legals
Jessie Helton
26204 Interstate 30
Bryant , AR 72022

Acct #: 04109259
Ad #: 00116521
Phone: (501)653-3200
Date: 04/29/2022
Ad taker: JS **Salesperson:** LEGA

Sort Line: NOTICE OF PUBLIC HEARING A pu **Classification** 710

Description	Start	Stop	Ins.	Cost/Day	Total
01 The Saline Courier	05/27/2022	05/27/2022	1	46.80	46.80
AFFI Affidavit					2.60

Ad Text:

NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, June 13, 2022 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 1925 Johnswood Rd, Bryant, AR 72022. 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

Payment Reference:

Jessie Helton CC NO. 5374 04/24 -49.4 Auth:

Total:	49.40
Tax:	0.00
Net:	49.40
Prepaid:	-49.40
Total Due:	0.00

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

Rezoning Application

Applicants are advised to read the Amendments section of Bryant Zoning Code prior to completing and signing this form. The Zoning Code is available at www.cityofbryant.com under the Planning and Community Development tab.

Date: 4/25/22

Applicant or Designee:

Name Penny Webb
Address 1925 Johnswood Rd
Phone 501-681-9828
Email Address N/A

Property Owner (If different from Applicant):

Name Ahran Washington & Daphne Powell
Address 1907 Johnswood Rd. Bryant, AR 72103
Phone 501-348-0453 501-416-3994
Email Address ahran_washington@yahoo.com

Property Information:

Address 1925 Johnswood Rd Bryant, AR 72022
Parcel Number 84013189-001
Existing Zoning Classification RE
Requested Zoning Classification RM

Legal Description (If Acreage or Metes and Bounds description, please attach in a legible typed format)

_____

Application Submission Checklist:

- ☑ Letter stating request of zoning change from (Current Zoning) to (Requested Zoning) and to be placed on the Planning Commission Agenda
- ☑ Completed Rezoning Application
- ☑ Rezoning Application Fee ($40 fee for lot and black descriptions or $125 for acreage or metes and bound descriptions)
- ☑ If someone, other than the owner, will be handling the zoning process, we will require a

letter from the owner of said property, giving him or her authority to do so.

☑ Recent surveyed plat of the property including vicinity map

Additional Requirements:

*Items below **must be completed before the public hearing can occur**. Failure to provide notices in the following manners shall require delay of the public hearing until notice has been properly made.*

☐ Publication: Public Notice shall be published by the applicant at least one (1) time fifteen (15) days prior to the public hearing at which the rezoning application will be heard. Once published please provide a proof of publication to the Community Development office. (Sample notice attached below)

☐ Posting of Property: The city shall provide signs 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.

☐ Notification of adjacent landowners: Applicant shall attempt to inform by certified letter, return receipt requested, all owners of land within three hundred (300) feet of any boundary of the subject property of the public hearing. (Sample letter attached below)

☐ Certified list of property owners, all return receipts, and a copy of the notice shall be provided to the Community Development Department at least five (5) days prior to the public hearing.

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 Danny Webb, 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 that pertain to this project and that it is my responsibility to obtain all necessary permits as needed.

REQUEST OF ZONING CHANGE

I am writing to formally request a zoning change for the property located at **1925 Johnswood Rd, Bryant, AR 72022** from **RE to RM**.

Thank you for your time and consideration.

4·25·22

Signature & Date

To Whom It May Concern,

As the property owners we, Ahran Washington and Daphne Powell, give Penny Webb the authority to handle the rezoning process of the property at 1925 Johnswood Rd, Bryant, AR 72022.

Thank you,

Ahran Washington 4/26/22

Property Owner Signature & Date

4/26/22

Property Owner Signature & Date

21-1254
Drawing No.

Know what's below. Call before you dig.

POINT OF COMMENCEMENT
FND 1/2" PINCH PIPE
NW CORNER NW 1/4 SE 1/4
SECTION 23 T-01-S, R-14-W

Parcel Line Table		
Line #	Direction	Length
L1	N3°15'56"E	47.49'
L2	S86°30'53"E	30.02'
L7	S4°40'20"W	47.33'
L8	N86°51'09"W	28.86'

Easement Line Table		
Line #	Direction	Length
L3	S3°15'41"W	65.89'
L4	N3°15'56"E	20.00'
L5	N3°15'41"E	45.86'
L6	S86°56'16"E	20.00'

BASIS OF BEARINGS:
GRID NORTH ARKANSAS
COORDINATE SYSTEM,
SOUTH ZONE BY G.P.S.
OBSERVATIONS

BJ WILLIAMS PROPERTIES LLC
PARCEL #840-13188-000

FND 5/8" REBAR

S3° 15' 04"W 757.57'

S86° 49' 24"E 629.46'

15' BUILDING SETBACK LINE (B.S.L.)

FND 5/8" REBAR &
FND 2" PIPE

2022-007655
I certify this instrument was filed on:
04/01/2022 09:09:24 AM
Myka Bono Sample
Saline County Circuit Clerk
Pages: 1
C GREGORY

N3° 15' 00"E 345.88'

25' BUILDING SETBACK LINE

FARR THELMA ETAL (PARCEL #840-13188-000)

TRACT 1
4.33 ACRES
188664 Sq. Ft.

25' BUILDING SETBACK LINE

S3° 14' 32"W 346.43'

WALLACE, A C JR & DOROTHY TRUSTEES JOINT REVOCABLE
PARCEL #840-13187-003

EXISTING DWELLING

DECK 8' x 8' GAZEBO

28.7'
69.0'
76.4'
21.6'

15' B.S.L.

N86° 56' 16"W 359.64'

15' BUILDING SETBACK LINE

225.33'

POINT OF BEGINNING TRACT 2

FND 1/2" REBAR

25' B.S.L.

25' B.S.L.

N3° 15' 41"E 121.11'

TRACT 2
1.00 ACRES
43557 Sq. Ft.

25' B.S.L.

121.11'

FND 1/2" REBAR
POINT OF BEGINNING TRACT 1 & DEDICATION TO THE CITY OF BRYANT

L2

STORM SHELTER SHED

P1
P2
P3
P4
40.4'

L6

L5

L3

45.89'

FND 1/2" REBAR

S86° 51' 09"E 279.85'

15' BUILDING SETBACK LINE

N86° 56' 16"W 359.68'

L8

20' INGRESS/EGRESS/UTILITY ESMT

L4

N86° 51' 09"W 299.85'

FND 3/8" REBAR

FND 1/2" REBAR

FND 1.5" PIPE

FARR THELMA ETAL
PARCEL #840-13190-000

FND 2" PIPE

N3° 15' 56"E 558.46'

24' EASEMENT (SALINE DOC #2021-015929)

FND 1" X 2" ROD
SW CORNER
NW 1/4 SE 1/4
SECTION 23
T-01-S, R-14-W

JOHNSWOOD ROAD

LEGAL DESCRIPTION

TRACT 1

PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR BEING THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'00"E, A DISTANCE OF 345.88 FEET TO A FOUND 5/8" REBAR REBAR;
THENCE S86°49'24"E, A DISTANCE OF 629.46 FEET TO A FOUND 5/8" REBAR;
THENCE S03°14'32"W, A DISTANCE OF 225.33 FEET TO A SET 1/2" REBAR PLS #1762;
THENCE N86°56'16"W, A DISTANCE OF 359.64 FEET TO A SET 1/2" REBAR PLS #1762;
THENCE S03°15'41"W, A DISTANCE OF 121.11 FEET TO A FOUND 1/2" REBAR, THENCE S03°15'41"W, A DISTANCE OF 45.89 FEET TO FOUND 1/2" REBAR; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO A SET 1/2" REBAR PLS #1762 ON WEST LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE N03°15'56"E, ALONG THE WEST LINE THEREOF, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING**, CONTAINING 4.33 ACRES OR 188,664 SQUARE FEET, MORE OR LESS;

LESS & EXCEPT THAT PORTION TO BE DEDICATED TO THE CITY OF BRYANT, SALINE COUNTY, ARKANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR BEING THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE S04°40'20"W, A DISTANCE OF 47.33 FEET TO A FOUND 1/2" REBAR; THENCE N86°51'09"W, A DISTANCE OF 28.86 FEET TO A SET 1/2" REBAR ON THE WEST LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, THENCE N03°15'56"E, ALONG THE WEST LINE THEREOF, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING**; CONTAINING 0.03 ACRES OR 1,395.4 SQUARE FEET, MORE OR LESS;

ALSO, TOGETHER WITH A 24' INGRESS AND EGRESS EASEMENT AS DESCRIBED IN SALINE COUNTY DOCUMENT NUMBER 2021-015929;

ALSO, SUBJECT TO A 20' INGRESS/EGRESS & UTILITY EASEMENT OVER THE FOLLOWING DESCRIBED PROPERTY:
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'56"E, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING** OF SAID EASEMENT; THENCE N03°15'56"E, A DISTANCE OF 20.00 FEET; THENCE S86°51'09"E, A DISTANCE OF 279.85 FEET; THENCE N03°15'41"E, A DISTANCE OF 45.86 FEET; THENCE S86°56'16"E, A DISTANCE OF 20.00 FEET; THENCE S03°15'41"W, A DISTANCE OF 65.89 FEET; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO THE POINT OF BEGINNING; CONTAINING 0.16 ACRE OR 6,914 SQUARE FEET, MORE OR LESS.

TRACT 2

PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE LEAVING SAID WEST LINE, S86°30'53"E, A DISTANCE OF 30.02 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'00"E, A DISTANCE OF 345.88 FEET TO A FOUND 5/8" REBAR REBAR; THENCE S86°49'24"E, A DISTANCE OF 629.46 FEET TO A FOUND 5/8" REBAR; THENCE S03°14'32"W, A DISTANCE OF 225.33 FEET THE **POINT OF BEGINNING** OF HEREIN TRACT OF LAND; THENCE S03°14'32"W, A DISTANCE OF 121.11 FEET TO A FOUND 2" PIPE; THENCE N86°56'16"W, A DISTANCE OF 359.68 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'41"E, A DISTANCE OF 121.11 FEET TO A SET 1/2" REBAR PLS #1762; THENCE S86°56'16" E A DISTANCE OF 359.64 FEET TO THE POINT OF BEGINNING; CONTAINING 1.00 ACRE OR 43,557 SQUARE FEET, MORE OR LESS;

ALSO, TOGETHER WITH A 24' INGRESS AND EGRESS EASEMENT AS DESCRIBED IN SALINE COUNTY DOCUMENT NUMBER 2021-015929;

ALSO, TOGETHER WITH A 20' INGRESS/EGRESS & UTILITY EASEMENT OVER THE FOLLOWING DESCRIBED PROPERTY:
PART OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 01 SOUTH, RANGE 15 WEST, SALINE COUNTY, ARKANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING A FOUND 1/2" PINCH PIPE ACCEPTED AS THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 23; THENCE S03°15'04"W, ALONG THE WEST LINE THEREOF, A DISTANCE OF 757.57 FEET TO A FOUND 1/2" REBAR; THENCE N03°15'56"E, A DISTANCE OF 47.49 FEET TO THE **POINT OF BEGINNING** OF SAID EASEMENT; THENCE N03°15'56"E, A DISTANCE OF 20.00 FEET; THENCE S86°51'09"E, A DISTANCE OF 279.85 FEET; THENCE N03°15'41"E, A DISTANCE OF 45.86 FEET; THENCE S86°56'16"E, A DISTANCE OF 20.00 FEET; THENCE S03°15'41"W, A DISTANCE OF 65.89 FEET; THENCE N86°51'09"W, A DISTANCE OF 299.85 FEET TO THE POINT OF BEGINNING; CONTAINING 0.16 ACRE OR 6,914 SQUARE FEET, MORE OR LESS.

CERTIFICATE OF OWNER:

We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with the within plat.

3/11/22
Date of Execution

Name: Ahran Washington

Source of Title: Saline County Deed Book 2021 Page 015929.

CERTIFICATE OF FINAL SURVEYING ACCURACY:

I, Jonathan L. Hope, hereby certify that this plat correctly represents a survey completed by me, or under my supervision, that the boundary lines shown hereon correspond with the description in the deeds cited in the above Source of Titles; and that all monuments which were found or placed on the property are correctly described and located.

3/31/2022
Date of Execution

Name: Jonathan L. Hope,
Registered Professional
Land Surveyor, No. 1762
Arkansas

CERTIFICATE OF FINAL 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 _____ 20___. All documents is hereby accepted, and this certificate executed under the authority of said rules and regulations.

3/31/22
Date of Execution

Rick Johnson
Bryant Planning Commission

REGISTERED
STATE OF ARKANSAS
NO. 1762
SIGNATURE
JONATHAN L. HOPE
3/31/22
PROFESSIONAL LAND SURVEYOR

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

For the Exclusive Use and Benefit of:
Ahran Washington;

Address 1907 Johnswood Road
Bryant, Arkansas 72022
Date 12/03/2021

500	01S	14W	0	23	240	62	1762

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

This survey is for the exclusive use and benefit of parties shown hereon. Use or duplication of this document by any other parties is prohibited and voids said document.

This survey was based on legal descriptions and title work furnished by others. No investigation or independent search has been made for easements of record, encumbrances, restrictive covenants, ownership title information, or any other facts which an accurate and current title search may disclose.

No portion of the property described hereon lies within the 100 year flood plain, according to the Flood Insurance Rate Map, panel # 05125C0380E , dated: 06/05/2020.

100' 50' 0' 100'

LEGEND
- Aliquot Corner
- Found Monument
- Set ½" Rebar
- Computed point
- (M)-Measured
- (P)-Platted
- -Fence

Drawn By: JPP Checked: _____

Colton Leonard <cleonard@cityofbryant.com>

Variance Application

2 messages

Ronny Skipper <ronny@seizsigns.com> Tue, May 24, 2022 at 1:05 PM
To: Colton Leonard <cleonard@cityofbryant.com>

Good Afternoon, Colton:

Buffalo Wild Wings is wanting to seek a variance for their pole sign. Code indicates 25' maximum height so they want to apply for a variance for the 50' sign shown on the attached design. The hardship is based on the requirement to install the sign so far into the property due to all the utilities that converge at the corner of their property making it impossible to install a "normal" street sign near the street.

Attached are the drawings for the proposed pole sign requiring the variance as well as the rest of the project for reference.

Regards,

Ronny Skipper
General Manager
Seiz Sign Company

1231 Central Ave
Hot Springs, AR 71901

501-282-4126 PHONE
501-623-4594 FAX

2 attachments

BWW (BRYANT, AR) 23-70338-10 R2.pdf
1749K

2016 BWW (BRYANT, AR) 23-35611-10 R2.pdf
7526K

Colton Leonard <cleonard@cityofbryant.com> Wed, May 25, 2022 at 11:28 AM
To: Ronny Skipper <ronny@seizsigns.com>

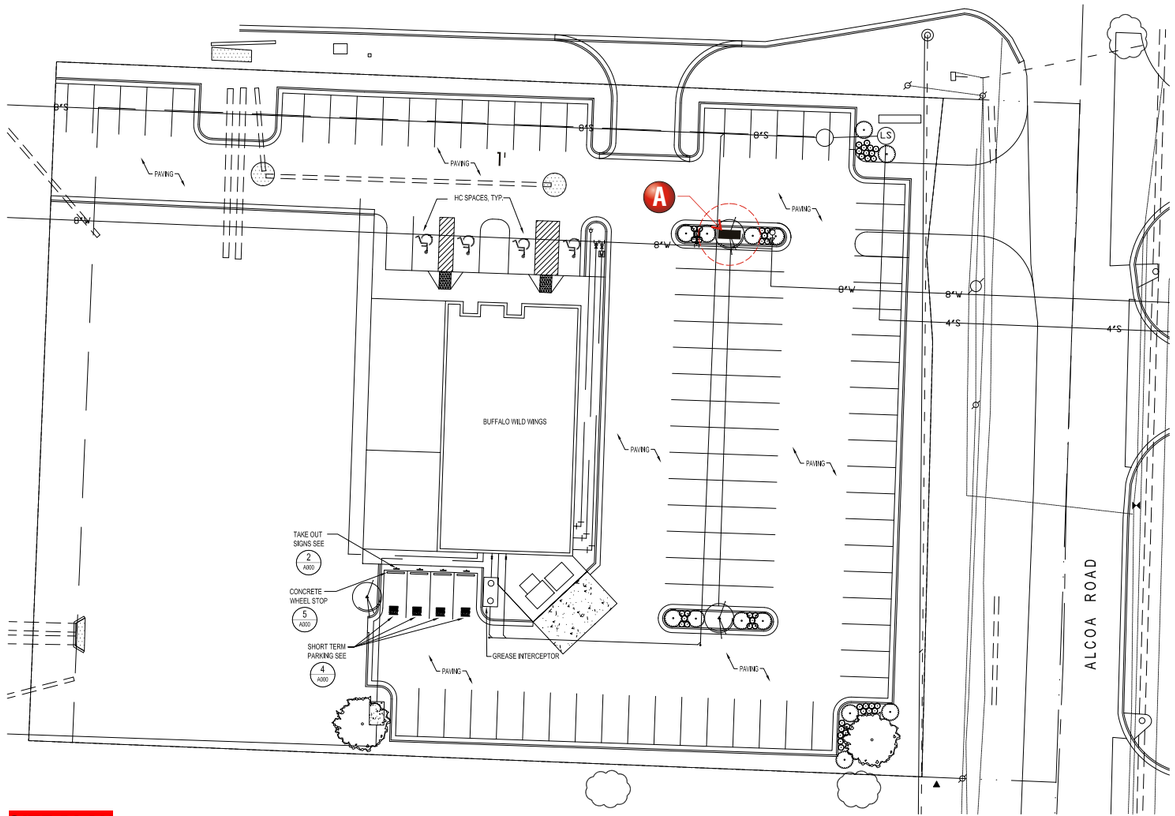
Ronny,

Thanks for submitting this application, we will have you at the next DRC meeting Friday, June 3rd at 9AM for the recommendation of the variance to the Planning Commission. The next upcoming Planning Commission will be held on June 8th.

Best,

Colton
[Quoted text hidden]
--
Colton Leonard
City Planner
210 SW 3rd Street
City of Bryant, Arkansas
(501) 943-0301
(501)943-0992 (Fax)

cleonard@cityofbryant.com
Web: www.CityofBryant.com



SITE PLAN

NOT TO SCALE

SIGNAGE SCHEDULE:

A **INTERNALLY ILLUMINATED PYLON SIGN | QTY: ONE (1)**



PROPOSED PYLON SIGN (NONE EXISTING)

FEDERAL HEATH
VISUAL COMMUNICATIONS
www.FederalHeath.com
1128 Beville Road, Suite E Daytona Beach, FL 32114
(386) 255-1901 Fax (386) 258-0211

Manufacturing Facilities:
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Oceanside, CA - Racine, WI - Rochester Hills, MI

Office Locations:
Atlanta, GA - Brandon, FL - Indianapolis, IN
Tunica, MS - Daytona Beach, FL - Delaware, OH - Euless, TX
Grafton, WI - Houston, TX - Idaho Falls, ID - Jacksonville, TX
Knoxville, TN - Las Vegas, NV - Louisville, KY
Oceanside, CA - Racine, WI - Rochester Hills, MI - San Antonio, TX
Tampa, FL - Willowbrook, IL - Orlando, FL

Building Quality Signage Since 1901

Revisions:
R1 BW 5.9.22 Revise size & add option.
R2 BW 5.12.22 Re-design Main ID cabinet & delete option 2.

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

Account Rep: RANDY CEARLOCK
Project Manager: JIM HARVEY
Drawn By: JOE KNESTRICK

Underwriters Laboratories Inc. ELECTRICAL TO USE U.L. LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

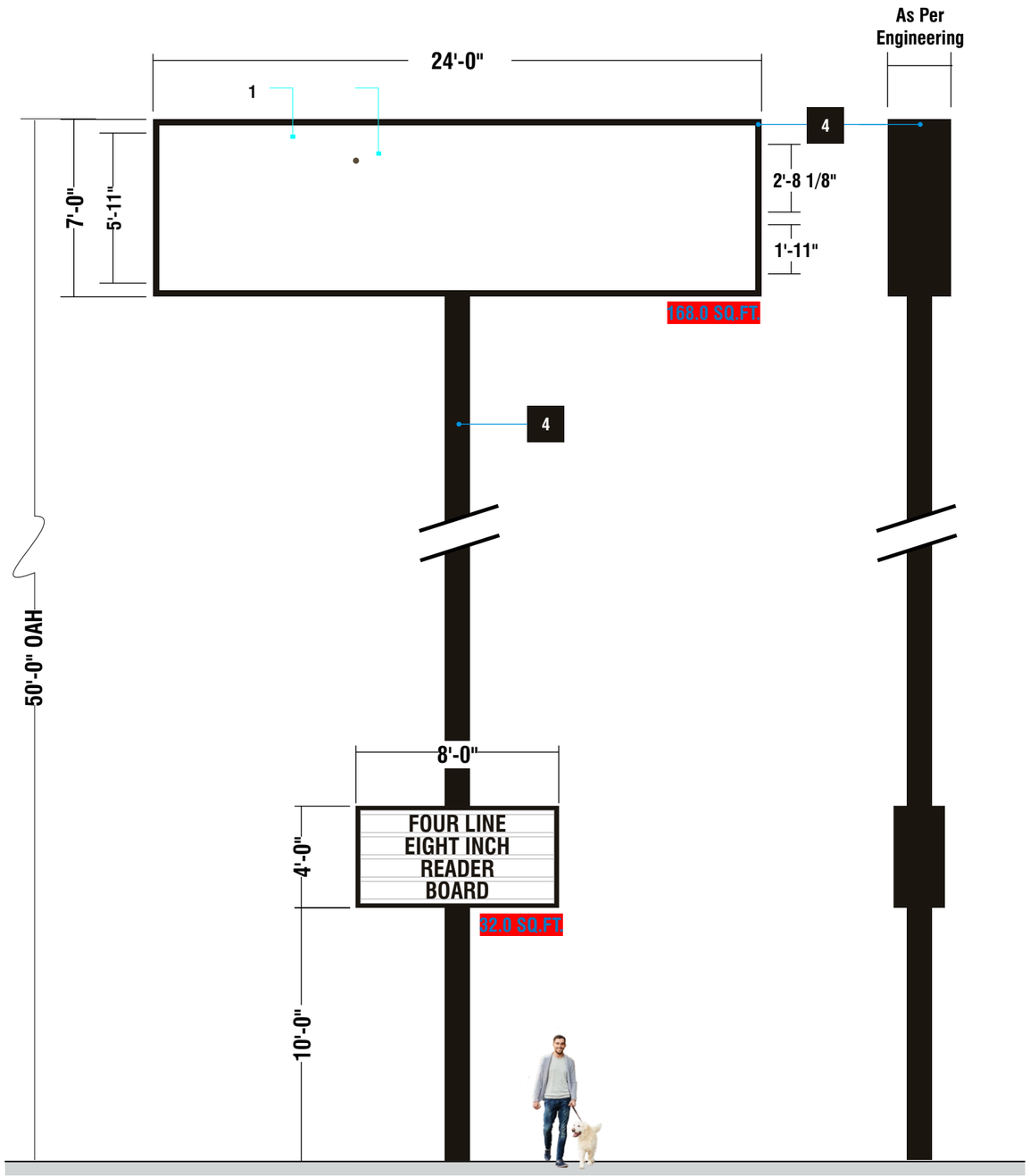
ALL ELECTRICAL SIGNS ARE TO COMPLY WITH U.L. 48 AND ARTICLE 600 OF THE N.E.C. STANDARDS, INCLUDING THE PROPER GROUNDING AND BONDING OF ALL SIGNS.

Project / Location:

STORE #
7206 ALCOA ROAD
BRYANT, AR 72022

Job Number: 23-70338-10
Date: February 08, 2022
Sheet Number: 1 Of 2
Design Number: 23-70338-10 R2

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END VIEW

A CUSTOM D/F INTERNALLY ILLUMINATED PYLON SIGN W/ READER BOARD | 200.0 SQ.FT.

SCALE: 3/16" = 1'-0"

MAIN ID CABINET:
CABINET& RETAINERS: ALUMINUM PAINTED BLACK.
FACE: WHITE FLEXIBLE FACE MATERIAL W/ 1ST SURFACE VINYL GRAPHICS.
INTERNAL ILLUMINATION: WHITE LED MODULES.

READER BOARD:
CABINET& RETAINERS: ALUMINUM PAINTED BLACK.
FACE: WHITE POLYCARBONATE.
INTERNAL ILLUMINATION: WHITE LED MODULES.
COPY: (300) 8" BLACK COMMERCIAL FONT ZIP CHANGE LETTERS W/ STORAGE CABINET & CHANGER ARM.

STEEL SUPPORT:
AS PER ENGINEERING PAINTED BLACK.

STANDARD INSTALL IS TO BE DIRECT PIPE EMBEDMENT INTO CONCRETE FOOTING PER FH ENGINEERING SPECS.

MANUFACTURING WILL PROVIDE A STUB PIPE WITH SIGN CABINETS ONLY IF O.A.H. (CABINET + STUB PIPE) DOES NOT EXCEED 9'-7" MAXIMUM SHIPPING HEIGHT RESTRICTIONS.

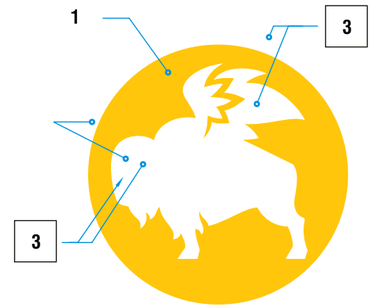
ALL SUPPORTING STEEL, INCLUDING STUB PIPE, IF NOT INCLUDED WITH CABINET, TO BE SHIPPED TO INSTALLATION SITE BY AN OUTSIDE SUPPLIER OR BY THE INSTALLATION CONTRACTOR, AS DETERMINED BY PROJECT MANAGEMENT.

NOTE: UPON CUSTOMER ACCEPTANCE, FEDERAL HEATH ENGINEERING DEPARTMENT WILL PROVIDE FABRICATION DRAWINGS & ENGINEERED SEAL DRAWINGS IF REQUIRED
THIS DRAWING IS FOR PRESENTATION ONLY

INSTALLATION OF THIS SIGN SHALL CONFORM TO ARTICLE 600 OF THE NEC, UL48, AND OR OTHER APPLICABLE LOCAL CODES, INCLUDING PROPER GROUNDING AND BONDING OF SIGN.

LOCATION OF DISCONNECT SWITCH AFTER INSTALLATION SHALL COMPLY WITH ARTICLE 600.6(A) OF THE NEC.

ENGINEERING REQUIRED



Color Breakdown | Logo

PMS 7548c	PMS 440c	100 % White	100 % Black
1		3	4
2500-125 Golden Yellow	2500-69 Duronodic		

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Knoxville, TN - Las Vegas, NV - Louisville, KY
Oceanside, CA - Racine, WI - Rochester Hills, MI - San Antonio, TX
Tampa, FL - Willowbrook, IL - Orlando, FL

Building Quality Signage Since 1901

Revisions:
R1 BW 5.9.22 Revise size & add option.
R2 BW 5.12.22 Re-design Main ID cabinet & delete option 2.

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

Account Rep: RANDY CEARLOCK
Project Manager: JIM HARVEY
Drawn By: JOE KNESTRICK

Underwriters Laboratories Inc. ELECTRICAL TO USE U.L. LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

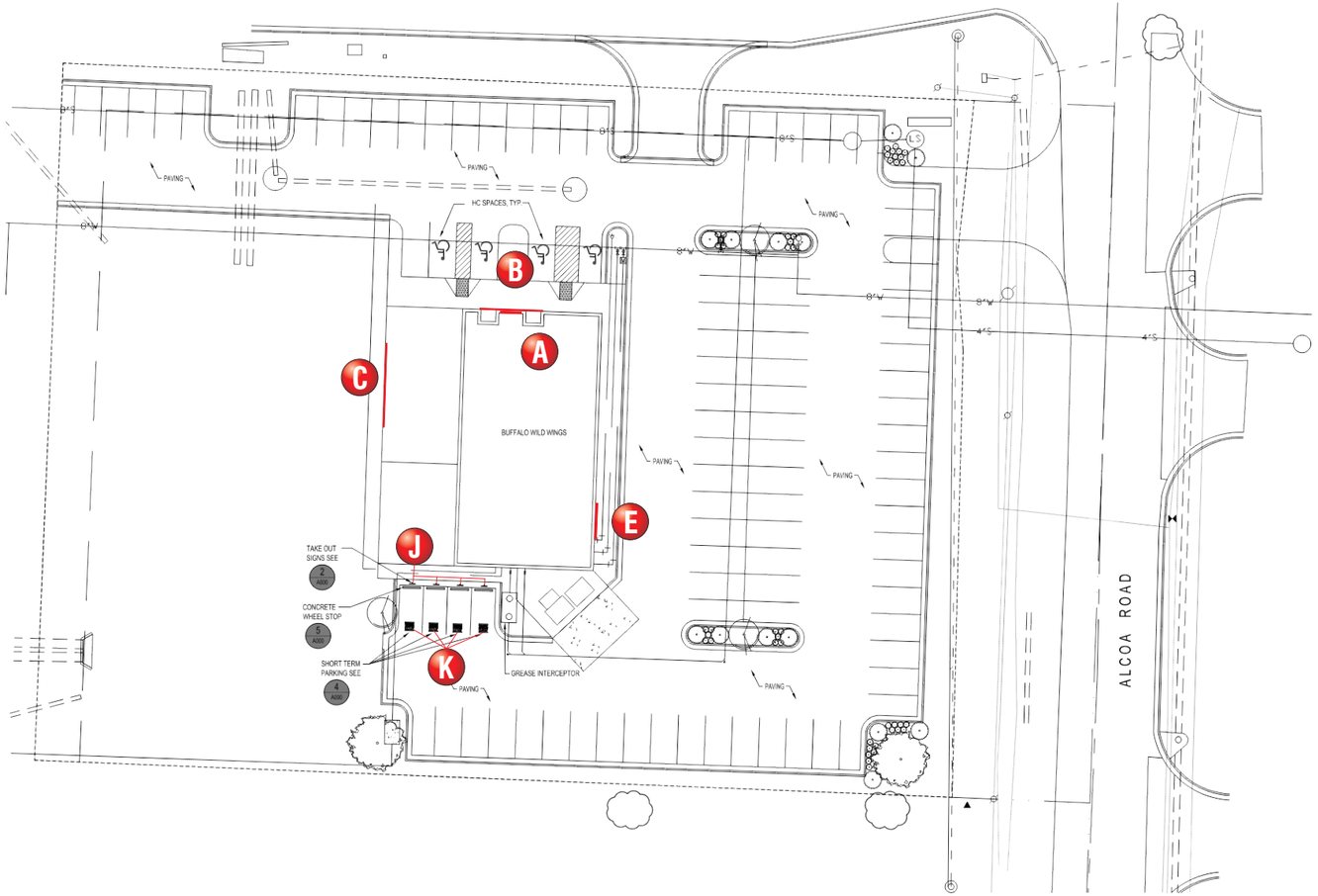
ALL ELECTRICAL SIGNS ARE TO COMPLY WITH U.L. 48 AND ARTICLE 600 OF THE N.E.C. STANDARDS, INCLUDING THE PROPER GROUNDING AND BONDING OF ALL SIGNS.

Project / Location:

STORE #
7206 ALCOA ROAD
BRYANT, AR 72022

Job Number: 23-70338-10
Date: February 08, 2022
Sheet Number: 2 Of 2
Design Number: 23-70338-10 R2

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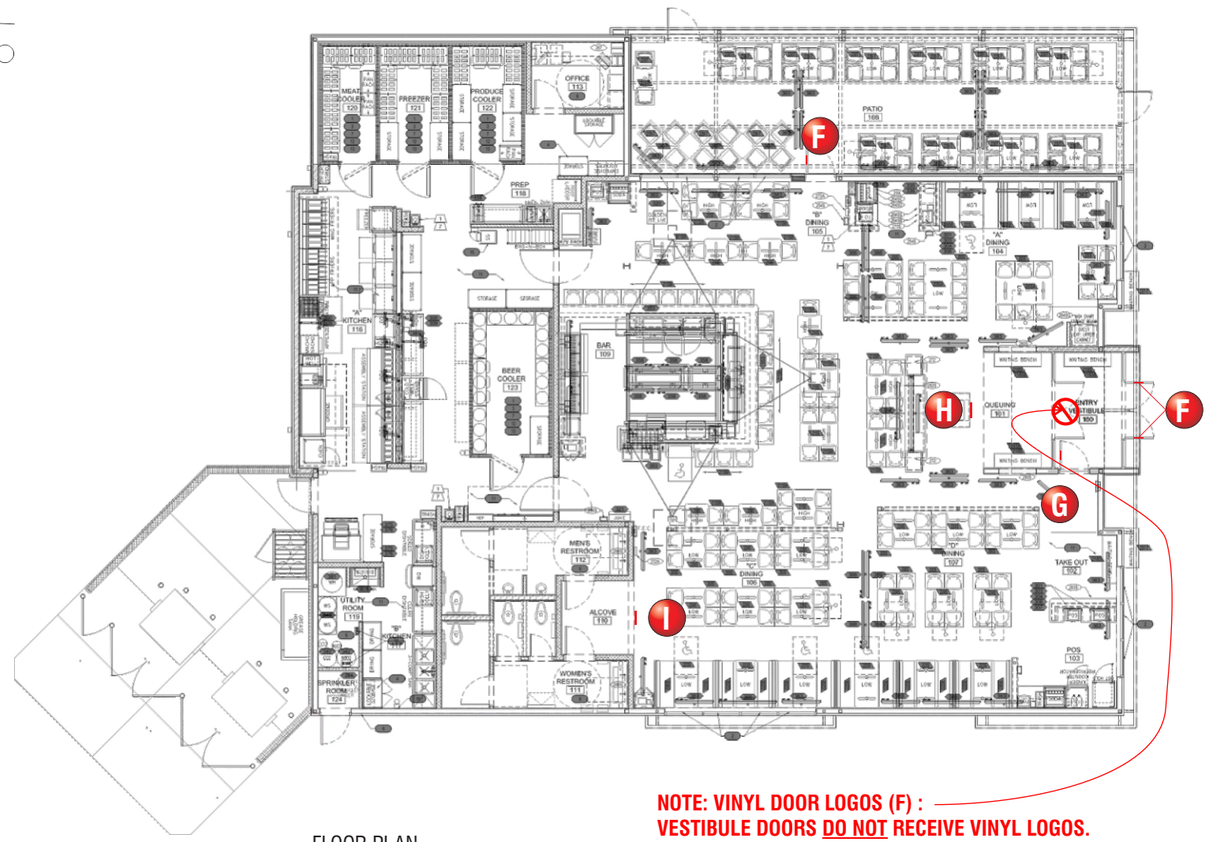
N W E S

1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 20'-0"

SITE PLAN
SCALE: 1" = 50'-0"

L E G E N D

- **A** **W-EM**84 CHANNEL LOGO
- **B** **C-BWW18RW** CHANNEL LETTERS
- **C** **C-BWW24RW** CHANNEL LETTERS
- **E** **W-NM72H3** CHANNEL LOGO & LETTERS
- **F** **V-ME12** VINYL DOOR GRAPHICS
- **G** **V-TO20** TAKEOUT VINYL GRAPHICS
- **H** **HSL-20 HOSTESS STAND**
- **I** **F-RR18** RESTROOM SIGN
- **J** P1 TAKEOUT PARKING SIGNS
- **K** TAKEOUT PARKING STENCIL



FLOOR PLAN
SCALE: 1/16" = 1'-0"

NOTE: VINYL DOOR LOGOS (F) :
VESTIBULE DOORS DO NOT RECEIVE VINYL LOGOS.
VINYL DOOR LOGOS GO ON OUTSIDE ENTRY DOORS ONLY.

SIGN COMPANY
www.FederalHeath.com

Manufacturing Facilities:
Oceanside, CA - Euless, TX - Jacksonville, TX - Delaware, OH
DuraColor - Racine, WI
Office Locations:
Oceanside, Ca - Las Vegas, NV - Laughlin, AZ - Idaho Falls, ID
Euless, TX - Jacksonville, TX - San Antonio, TX - Corpus Christi, TX
Indianapolis, IN - Delaware, OH - Knoxville TN - Louisville, KY
Grafton, WI - Willowbrook, IL - Tunica, MS
Atlanta, GA - Tampa, FL - Daytona Beach, FL - Orlando, FL

Building Quality Signage Since 1901

Revisions:
R1 4.13.16 GB Revise Title Block Address (City)
R2 4.21.16 BW Remove sign D from rear elevation.

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

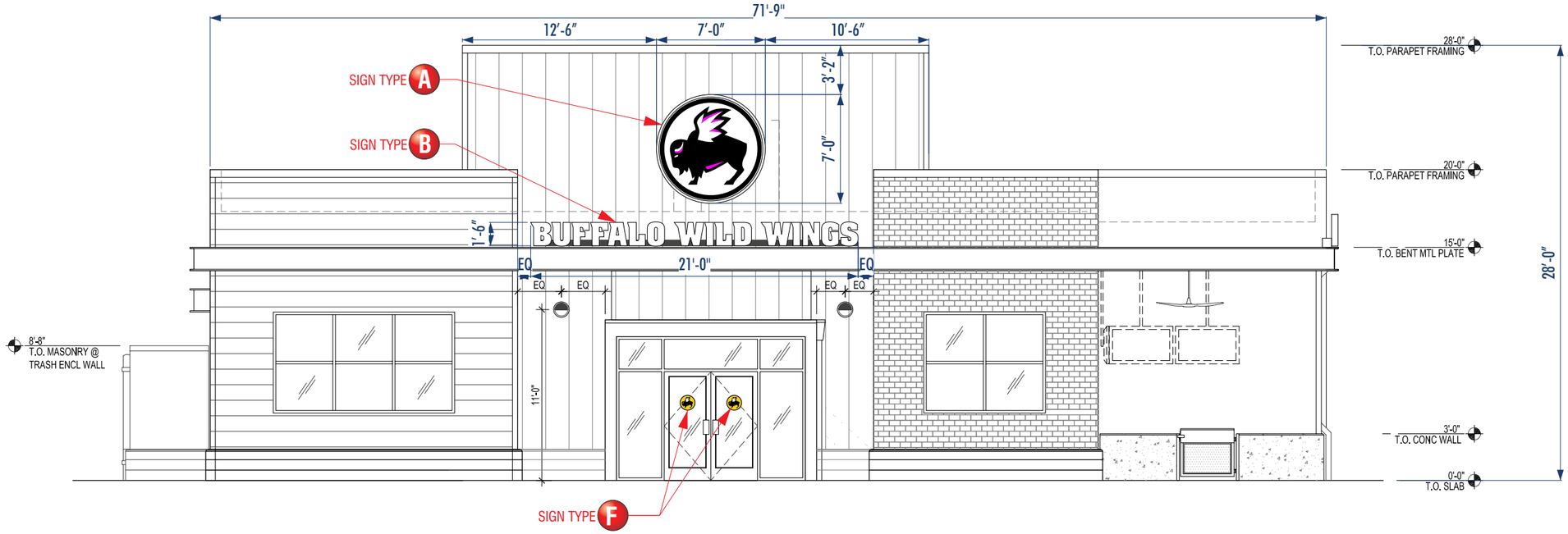
Account Rep: RANDY CEARLOCK
Project Manager: JIM HARVEY
Drawn By: JODY GRAHAM

Underwriters Laboratories Inc. ELECTRICAL TO USE U.L. LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS
ALL ELECTRICAL SIGNS ARE TO COMPLY WITH U.L. 48 AND ARTICLE 600 OF THE N.E.C. STANDARDS, INCLUDING THE PROPER GROUNDING AND BONDING OF ALL SIGNS.

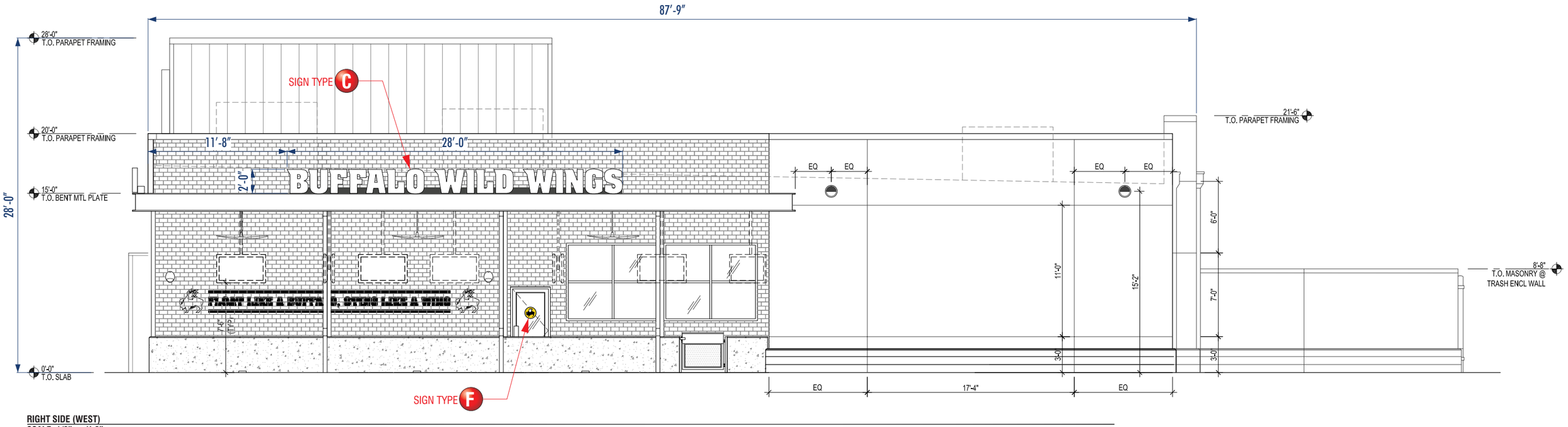
Project / Location:
7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
Date: MARCH 21, 2016
Sheet Number: 1 Of 11
Design Number: **23-35611-10 R2**

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FRONT (NORTH)
SCALE: 1/8" = 1'-0"



RIGHT SIDE (WEST)
SCALE: 1/8" = 1'-0"

SIGN COMPANY
www.FederalHeath.com

Manufacturing Facilities:
Oceanside, CA - Euless, TX - Jacksonville, TX - Delaware, OH
DuraColor - Racine, WI
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Building Quality Signage Since 1901

Revisions:
R1 4.13.16 GB Revise Title Block Address (City)
R2 4.21.16 BW Remove sign D from rear elevation.

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

Account Rep: RANDY CEARLOCK
Project Manager: JIM HARVEY
Drawn By: JODY GRAHAM

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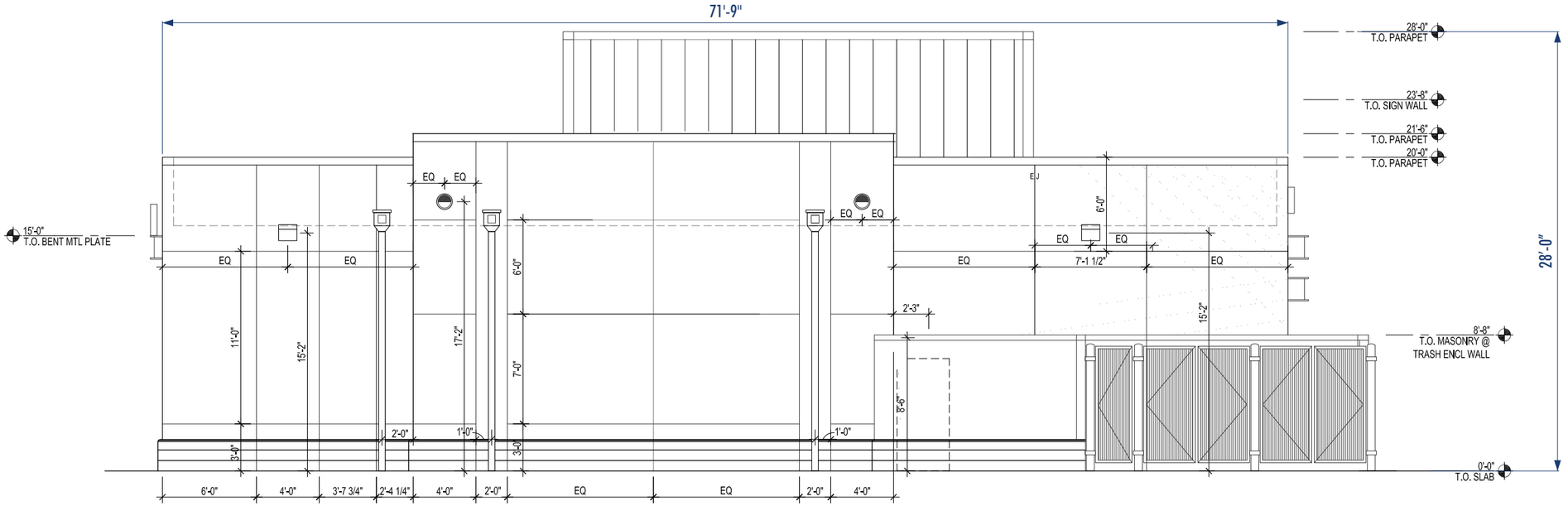
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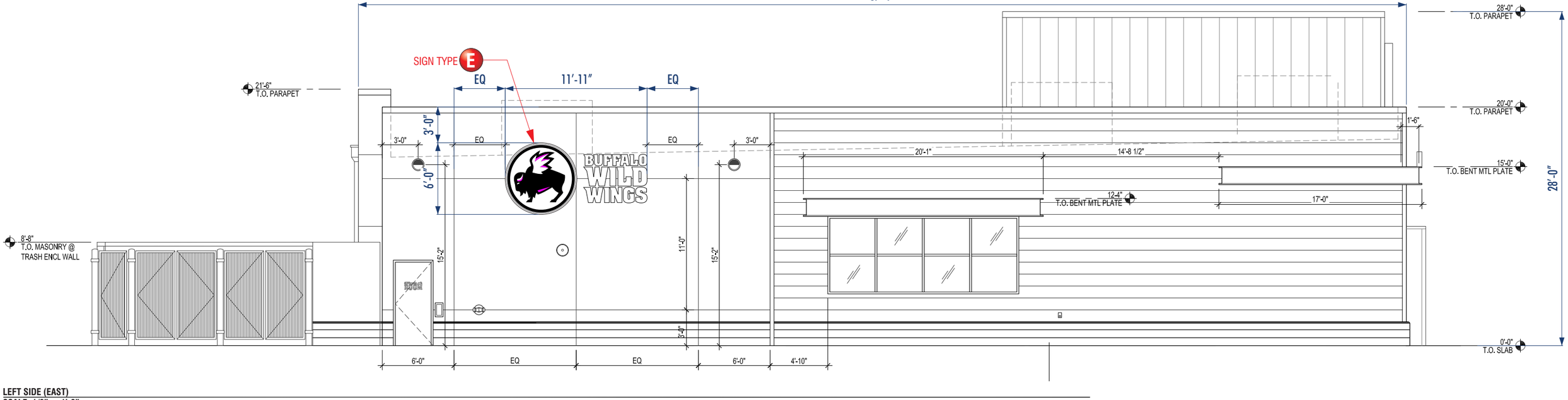
7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
Date: MARCH 21, 2016
Sheet Number: 2 Of 11
Design Number: **23-35611-10 R2**

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REAR (SOUTH)
SCALE: 1/8" = 1'-0"



LEFT SIDE (EAST)
SCALE: 1/8" = 1'-0"

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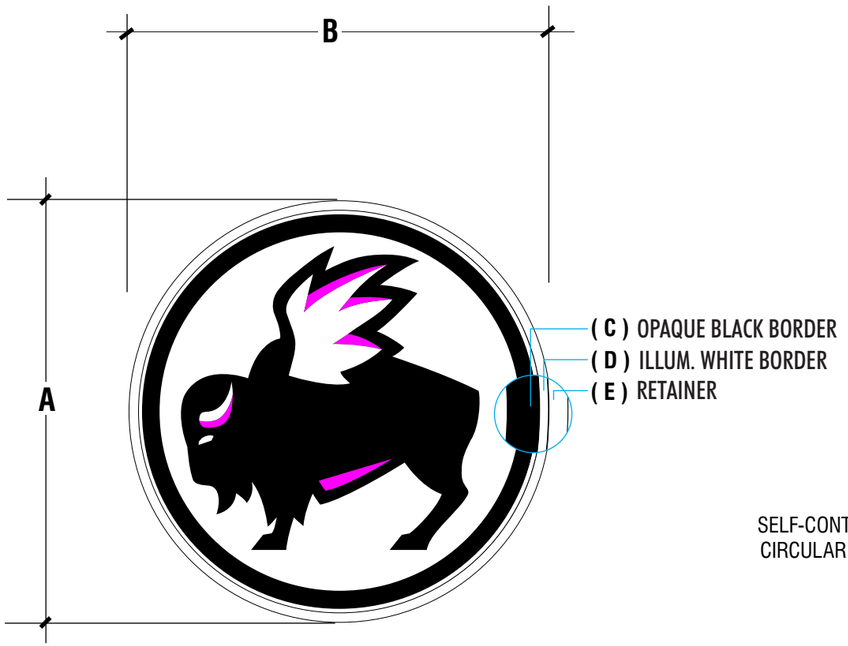
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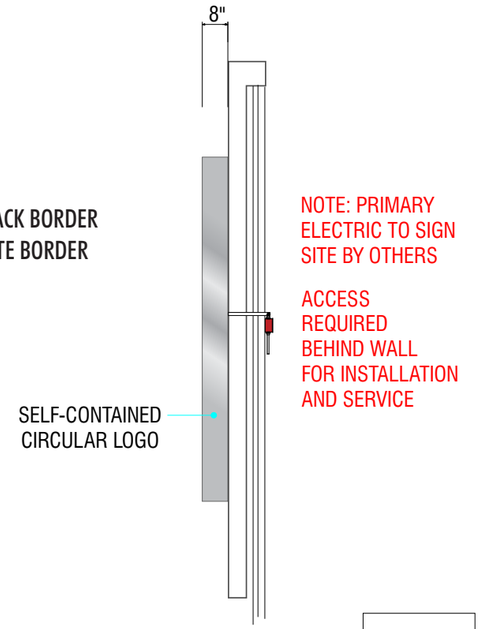
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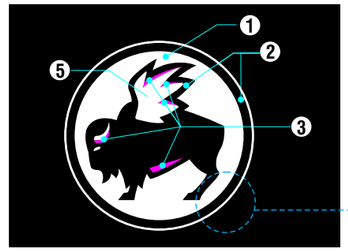


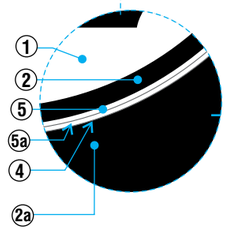


NOTE: PRIMARY ELECTRIC TO SIGN SITE BY OTHERS

ACCESS REQUIRED BEHIND WALL FOR INSTALLATION AND SERVICE

END VIEW





1 PMS 116C	#525 ARLON | BRIGHT YELLOW VINYL (Translucent)
2 BLACK	#22 ARLON | BLACK VINYL 2a - BACKGROUND ELEMENT (By Others)
3 PMS 423C	#51 ARLON SILVER GRAY VINYL (Translucent)
4 BRUSHED ALUMINUM	#171S BRUSHED ALUMINUM PAINT (Spraylat)
5 WHITE	#7328 | WHITE POLYCARBONATE (Translucent) 5a - FACE OF RETAINER PAINTED WHITE

A WALL SIGN LAYOUT| LOGO

SIGN TYPE	A	B	C (BLACK BORDER)	D (WHITE ILLUM BORDER)	E (RETAINER)	SQ.FT. (MAX)	SQ.FT. (MIN)
W-EM84	7'-0"	7'-0"	3 1/2"	7/8"	2"	49.0	38.4

LOGO CHANNEL:
RETURNS OF CABINET PAINTED BRUSHED ALUMINUM. NOTE: METAL RETAINER TWO TONE. RETURN OF RETAINER PAINTED BRUSHED ALUMINUM, FACE OF RETAINER PAINTED WHITE.

NOTE: IF CUSTOM LOGO SIZE OF 36" or LESS IS REQUIRED, RETAINER WILL BE TRIM-CAP PAINTED BRUSHED ALUMINUM.

CIRCULAR FACE: WHITE POLYCARBONATE w/ FIRST SURFACE TRANSLUCENT VINYL DECORATION.

ILLUMINATION: VIA SLOAN VL PLUS-2 WHITE LEDS



MAXIMUM (MAX)



MINIMUM (MIN)

Total: **T.B.D.** Amps

# of 120V, 20A Circuits Req'd T.B.D.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

CUSTOMER TO PROVIDE:

(For New / Remodel Construction) ADEQUATE BEHIND THE WALL BACKING AND ACCESS AS REQUIRED TO INSTALL SIGNAGE. CUSTOMER TO FORWARD COPY OF FINAL APPROVED SIGNAGE DRAWINGS TO BUILDING SITE CONTACT SO THAT THESE PROVISIONS CAN BE MADE DURING CONSTRUCTION AND PRIOR TO SIGN INSTALLATION.

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN WITHIN 5 FT. TO BE BY CERTIFIED ELECTRICIAN:
A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
C. Properly sized ground wire that can be traced back to the breaker panel must be provided.
D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.

Any deviation from the above recommendations may result in:
1. Damage to or improper operation of the sign(s).
2. Delays and additional costs.

Notes:
- Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
- Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.

INSTALLER IS RESPONSIBLE FOR:

PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

ELECTRICAL NOTES:
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PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

SEALING BUILDING PENETRATIONS WITH SILICONE TO PREVENT MOISTURE PENETRATION @ EXTERIOR LOCATIONS..

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R2 4.21.16 BW Remove sign D from rear elevation.

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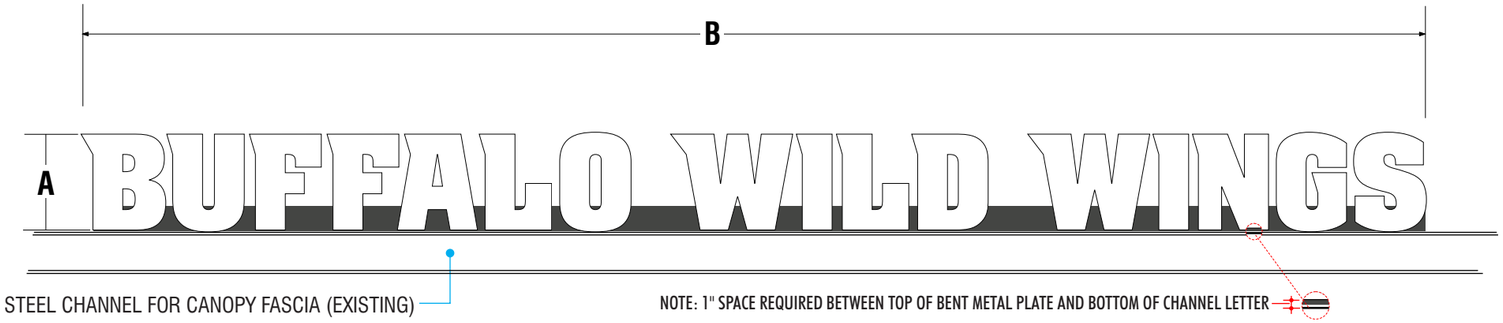
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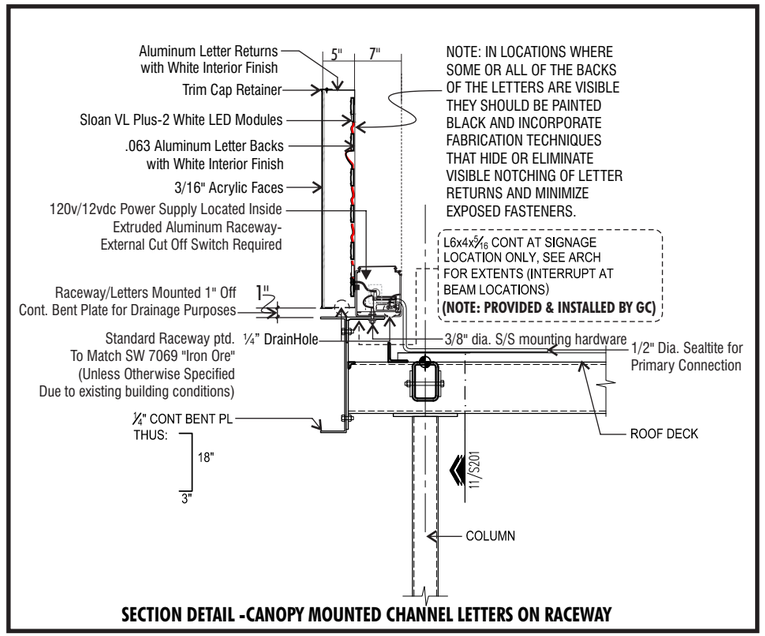
Project / Location:

7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
Date: MARCH 21, 2016
Sheet Number: 4 Of 11
Design Number: **23-35611-10 R2**

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SECTION DETAIL -CANOPY MOUNTED CHANNEL LETTERS ON RACEWAY

B INDIVIDUAL INTERNALLY ILLUMINATED CHANNEL LETTER LAYOUT

TYPE	A	B	SQ.FT.	QTY
C-BWW18RW	1'-6"	21'-0"	31.5	

CHANNEL LETTERS "BWW":
RETURNS: 5" DEEP, PRE-FINISHED BLACK ALUMINUM LETTERS PAINTED BLACK ON ALL EXTERIOR SURFACES
FACES: #7328 WHITE ACRYLIC BANDED W/A 1" BLACK TRIM CAP.
ILLUMINATION: VIA SLOAN VL PLUS-2 WHITE LEDS

5 WHITE — #7328 | WHITE ACRYLIC (Translucent)

2 BLACK — RETURNS | TRIM-CAP

Total: **T.B.D.** Amps

# of 120V, 20A Circuits Req'd T.B.D.

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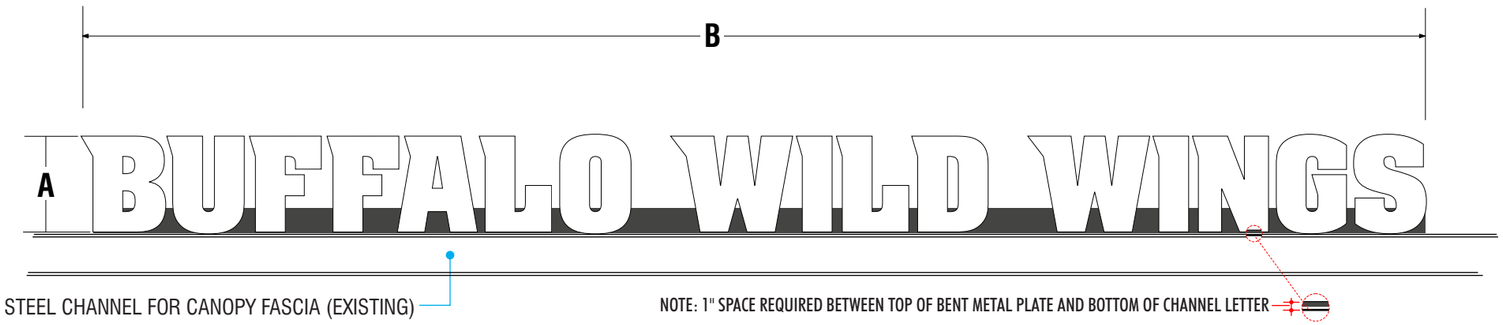
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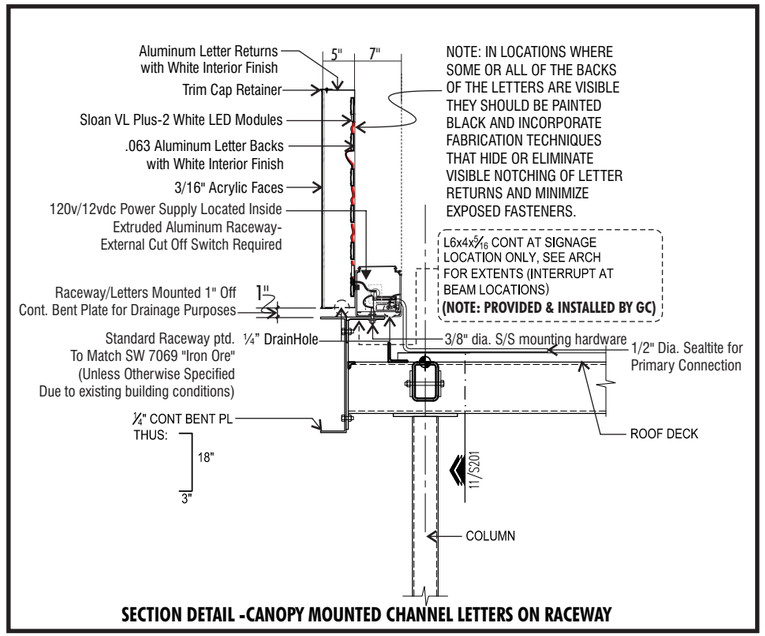
Project / Location:

7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
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Sheet Number: 5 Of 11
Design Number: **23-35611-10 R2**

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SECTION DETAIL -CANOPY MOUNTED CHANNEL LETTERS ON RACEWAY

C INDIVIDUAL INTERNALLY ILLUMINATED CHANNEL LETTER LAYOUT

TYPE	A	B	SQ.FT.	QTY
C-BWW24RW	2'-0"	28'-0"	56.0	

CHANNEL LETTERS "BWW":
RETURNS: 5" DEEP, PRE-FINISHED BLACK ALUMINUM LETTERS PAINTED BLACK ON ALL EXTERIOR SURFACES
FACES: #7328 WHITE ACRYLIC BANDED W/A 1" BLACK TRIM CAP.
ILLUMINATION: VIA SLOAN VL PLUS-2 WHITE LEDS

5 WHITE — #7328 | WHITE ACRYLIC (Translucent)

2 BLACK — RETURNS | TRIM-CAP

Total: **T.B.D.** Amps

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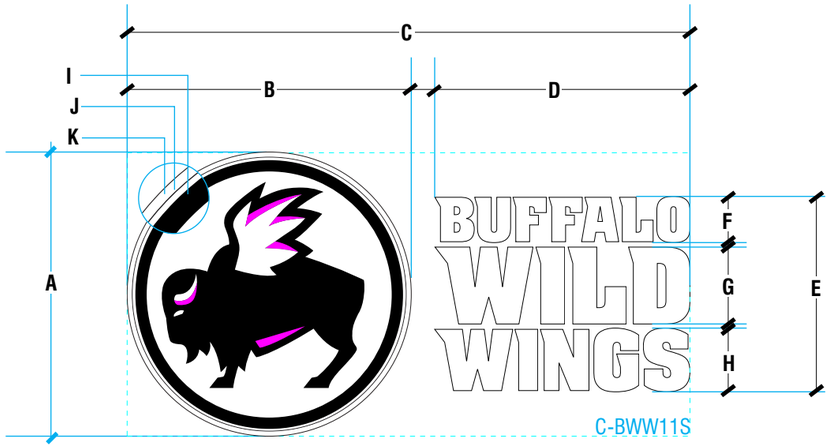
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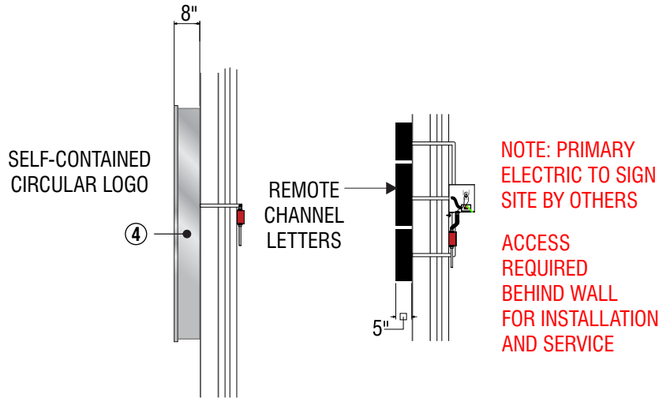
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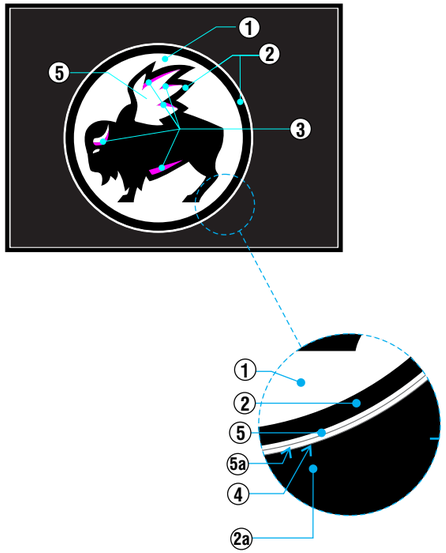
Job Number: 23-35611-10
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Sheet Number: 6 Of 11
Design Number: **23-35611-10 R2**

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END VIEW LOGO **END VIEW CL LETTERS**



E WALL SIGN LAYOUT

Scale: 3/8"=1'-0"

SIGN TYPE	A	B	C	D	E	F	G	H	I (BLACK BORDER)	J (WHITE (ILLUM) BORDER)	K (RETAINER)	SQ.FT. (GRAPHICS ONLY) (MAX)	QTY.
W-NM72H3	6'-0"	6'-0"	11'-11"	5'-5"	4'-1"	11 1/4"	1'-7 1/2"	1'-3 1/2"	3"	3/4"	1 3/4"	71.46	1

LOGO CHANNEL:
RETURNS OF CABINET PAINTED BRUSHED ALUMINUM. NOTE: METAL RETAINER TWO TONE. RETURN OF RETAINER PAINTED BRUSHED ALUMINUM, FACE OF RETAINER PAINTED WHITE.

NOTE: IF CUSTOM LOGO SIZE OF 36" or LESS IS REQUIRED, RETAINER WILL BE TRIM-CAP PAINTED BRUSHED ALUMINUM.

CIRCULAR FACE: WHITE POLYCARBONATE w/ FIRST SURFACE TRANSLUCENT VINYL DECORATION.

ILLUMINATION: VIA SLOAN VL PLUS-2 WHITE LEDS

CHANNEL LETTERS:
RETURNS OF LETTERS PAINTED BLACK ON ALL EXTERIOR SURFACES

FACES: #7328 WHITE ACRYLIC BANDED W/A 1" BLACK TRIM CAP.

ILLUMINATION: VIA SLOAN VL PLUS-2 WHITE LEDS

NOTE: BACKGROUND PANEL BY OTHERS.

FACE TREATMENT

NOTE: WHITE TRANSLUCENT BORDER (ON FACE OF LOGO) WILL BLEED OUT UNDERNEATH RETAINER.

1 PMS 116C	#525 ARLON | BRIGHT YELLOW VINYL (Translucent)
2 BLACK	#22 ARLON | BLACK VINYL 2a - BACKGROUND ELEMENT (By Others)
3 PMS 423C	#51 ARLON SILVER GRAY VINYL (Translucent)
4 BRUSHED ALUMINUM	#171S BRUSHED ALUMINUM PAINT (Spraylat)
5 WHITE	#7328 | WHITE POLYCARBONATE (Translucent) 5a - FACE OF RETAINER PAINTED WHITE



MAXIMUM (MAX)



MINIMUM (MIN)

Total: **T.B.D.** Amps

# of 120V, 20A Circuits Req'd T.B.D.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

CUSTOMER TO PROVIDE:

(For New / Remodel Construction) ADEQUATE BEHIND THE WALL BACKING AND ACCESS AS REQUIRED TO INSTALL SIGNAGE. CUSTOMER TO FORWARD COPY OF FINAL APPROVED SIGNAGE DRAWINGS TO BUILDING SITE CONTACT SO THAT THESE PROVISIONS CAN BE MADE DURING CONSTRUCTION AND PRIOR TO SIGN INSTALLATION.

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN WITHIN 5 FT. TO BE BY CERTIFIED ELECTRICIAN:
A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
C. Properly sized ground wire that can be traced back to the breaker panel must be provided.
D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.

Any deviation from the above recommendations may result in:
1. Damage to or improper operation of the sign(s).
2. Delays and additional costs.

Notes:
- Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
- Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.

INSTALLER IS RESPONSIBLE FOR:

PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

ELECTRICAL NOTES:
1. **INSTALLATION OF THESE (ELECTRICAL) SIGNS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 600 OF THE N.E.C., U.L. 48 AND / OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.**

PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

SEALING BUILDING PENETRATIONS WITH SILICONE TO PREVENT MOISTURE PENETRATION @ EXTERIOR LOCATIONS..

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DuraColor - Racine, WI
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Building Quality Signage Since 1901

Revisions:
R1 4.13.16 GB Revise Title Block Address (City)
R2 4.21.16 BW Remove sign D from rear elevation.

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.

Client Approval/Date:

Landlord Approval/Date:

Account Rep: RANDY CEARLOCK
Project Manager: JIM HARVEY
Drawn By: JODY GRAHAM

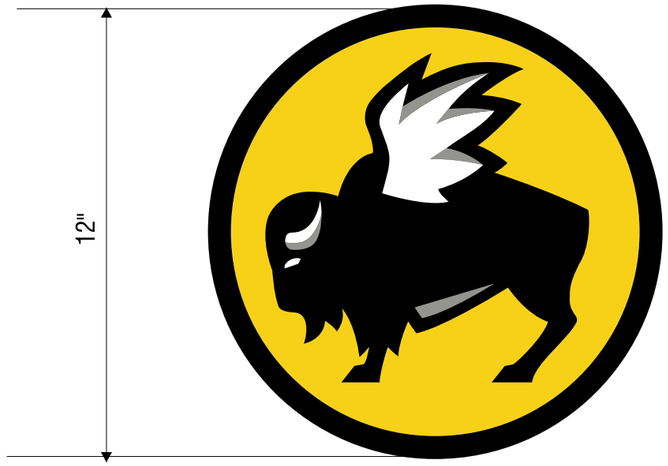
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Project / Location:

7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
Date: MARCH 21, 2016
Sheet Number: 7 Of 11
Design Number: **23-35611-10 R2**

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V-ME12

F VINYL DOOR GRAPHICS | first surface | QTY: SIX (6) REQUIRED

scale 3"=1'-0"

FIRST SURFACE APPLIED DIGITAL PRINT @ 360 DPI
NOTE: TWO(2) DIGITAL PRINT LOGOS REQUIRED FOR EACH DOOR.
DIGITAL PRINTS TO BE SINGLE SIDED APPLIED BACK TO BACK ON EACH DOOR.

NOTE: (1ST SURFACE APPLIED TO INSIDE & OUTSIDE SURFACE OF GLASS)
TOTAL DOORS (3) | TOTAL UNITS REQUIRED (6)

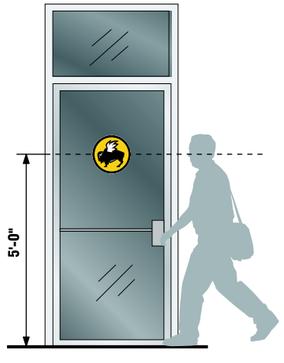


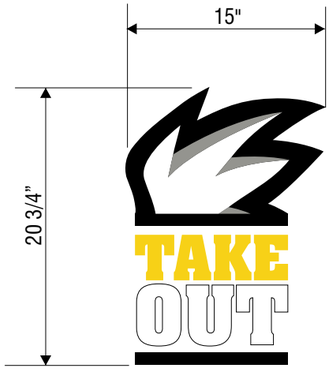
PMS 116C

BLACK

PMS 423C

WHITE #20



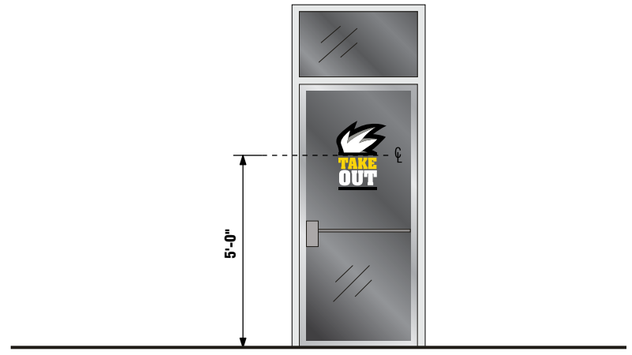


V-T020

G TAKE OUT DOOR GRAPHICS | first surface

scale 1"=1'-0"

FIRST SURFACE APPLIED DIGITAL PRINT @ 360 DPI



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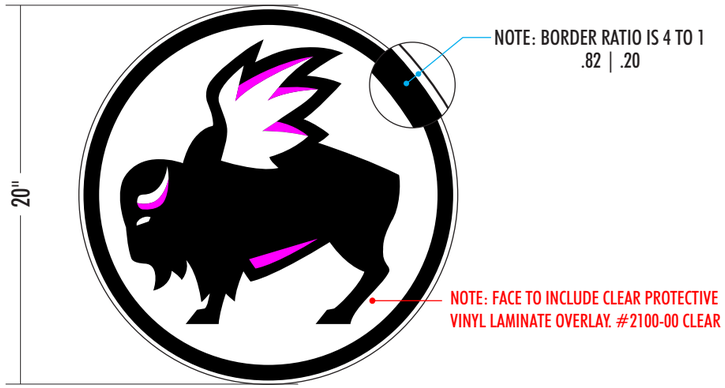
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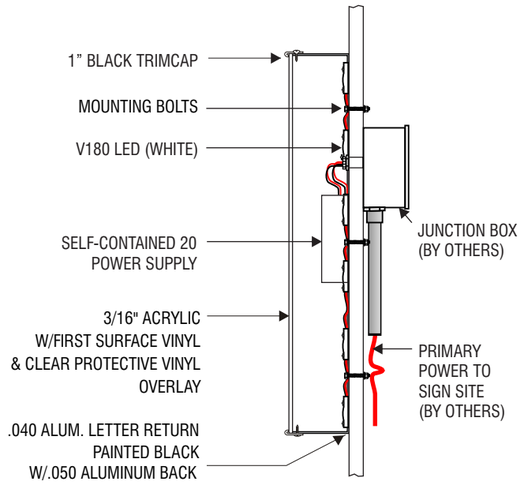


HSL-20 **HOSTESS STAND (Interior Logo)**

scale 1 1/2"=1'-0"

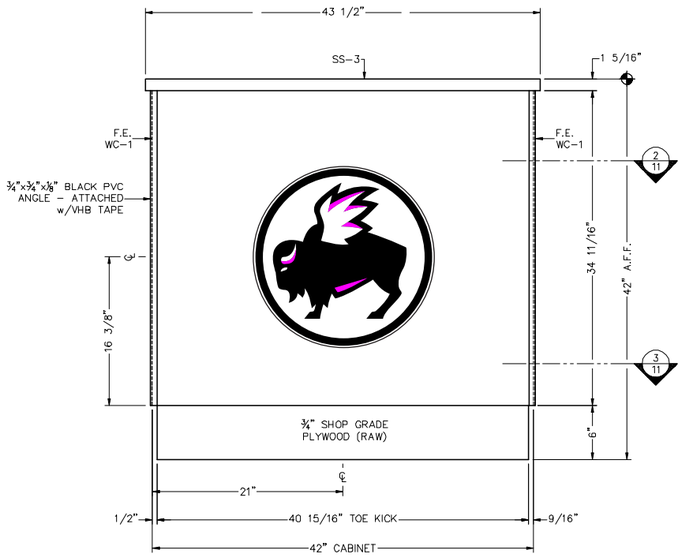


END VIEW

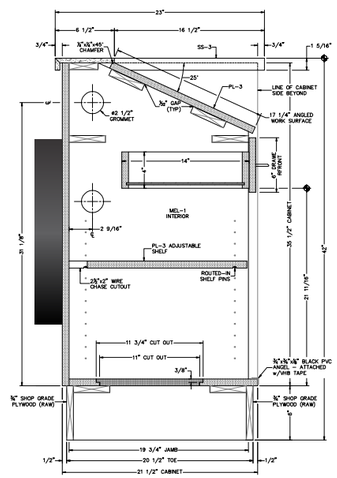


FACE TREATMENT

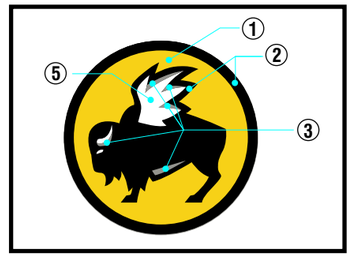
NOTE: WHITE TRANSLUCENT BORDER (ON FACE OF LOGO) WILL BLEED OUT UNDERNEATH TRIM-CAP.



HOSTESS STAND (Front Elevation)



HOSTESS STAND (Side View)



① **525 ARLON BRIGHT YELLOW VINYL (Translucent)**

② **22 ARLON BLACK VINYL BLACK PAINTED RETURN BLACK TRIMCAP**

③ **51 ARLON SILVER GRAY VINYL (Translucent)**

⑤ **WHITE 7328 ACRYLIC**

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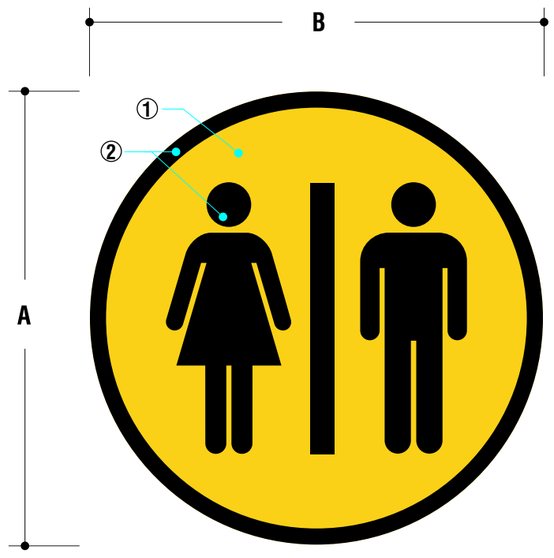
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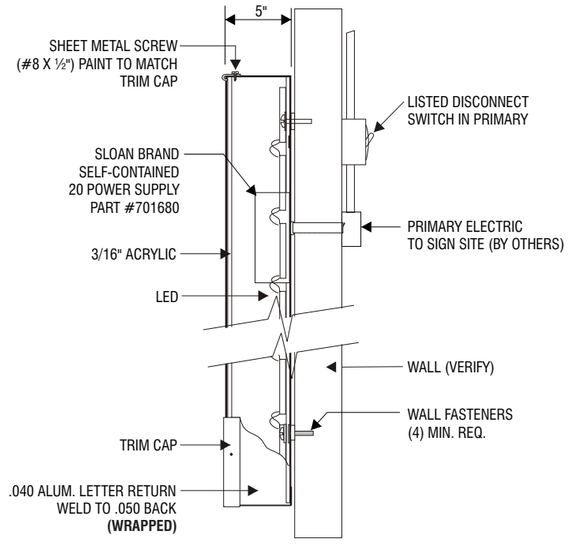
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END VIEW



UL APPROVED INSTALLATION DETAIL
CHANNEL LETTER WITH LED & POWER SUPPLY

1 SINGLE FACED INTERNALLY ILLUMINATED ACRYLIC FACED DISPLAY

CABINET: ALUMINUM LETTER CONSTRUCTION W/ PRE-FINISHED BLACK RETURNS.
FACES: #7328 WHITE ACRYLIC W/ FIRST SURFACE APPLIED VINYL GRAPHICS.
FACES ATTACHED W/ 1" BLACK TRIM CAP.
COLORS AS PER PALETTE.
ILLUMINATION: SLOAN VL PLUS WHITE LED

TYPE	A	B		SQ.FT.
F-RR18	18″	18″		2.3

ELECTRICAL REQUIREMENTS

Total: **T.B.D.** Amps

# of 120V, 20A Circuits Req'd T.B.D.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

1 PMS 116C	#525 ARLON | BRIGHT YELLOW VINYL (Translucent)
2 BLACK	#22 ARLON | BLACK VINYL
3 PMS 423C	#51 ARLON SILVER GRAY VINYL (Translucent)
5 WHITE	#7328 | WHITE ACRYLIC (Translucent)

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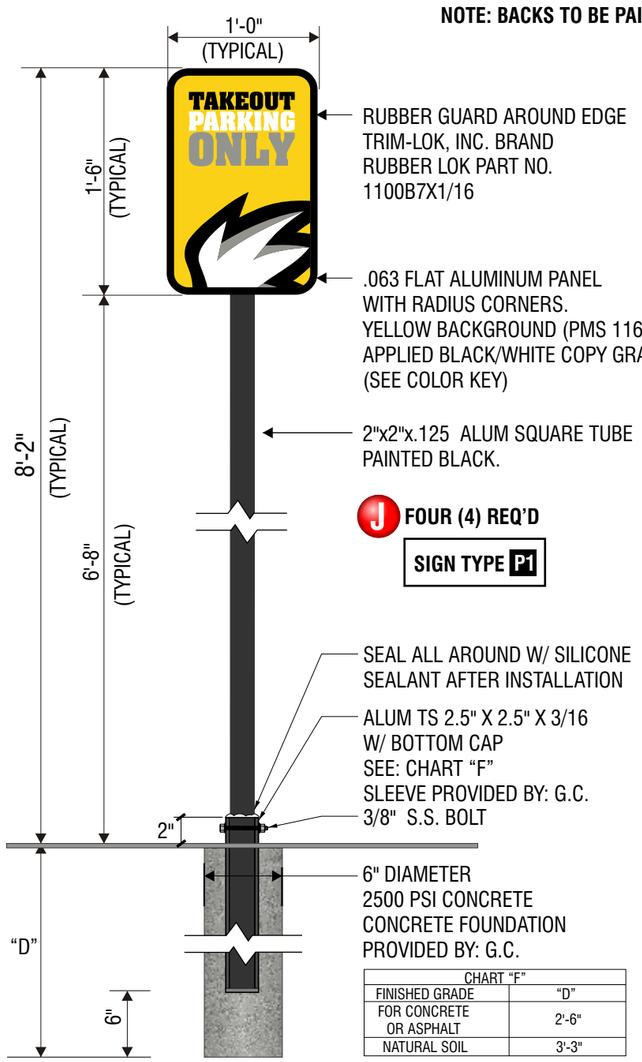
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7206 ALCOA ROAD
BRYANT, AR 72015

Job Number: 23-35611-10
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RUBBER GUARD AROUND EDGE
TRIM-LOK, INC. BRAND
RUBBER LOK PART NO.
1100B7X1/16

.063 FLAT ALUMINUM PANEL
WITH RADIUS CORNERS.
YELLOW BACKGROUND (PMS 116C)
APPLIED BLACK/WHITE COPY GRAPHICS.
(SEE COLOR KEY)

2"x2"x.125 ALUM SQUARE TUBE
PAINTED BLACK.

J FOUR (4) REQ'D

SIGN TYPE P1

SEAL ALL AROUND W/ SILICONE
SEALANT AFTER INSTALLATION

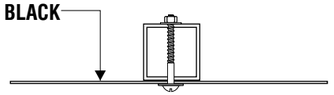
ALUM TS 2.5" X 2.5" X 3/16
W/ BOTTOM CAP
SEE: CHART "F"
SLEEVE PROVIDED BY: G.C.
3/8" S.S. BOLT

6" DIAMETER
2500 PSI CONCRETE
CONCRETE FOUNDATION
PROVIDED BY: G.C.

CHART "F"	
FINISHED GRADE	"D"
FOR CONCRETE OR ASPHALT	2'-6"
NATURAL SOIL	3'-3"

NOTE: TO BE USED ONLY WHEN THE SIGN IS PLACED ON A SIDEWALK OR SIMILAR CONCRETE SURFACE.

NOTE: BACKS TO BE PAINTED BLACK

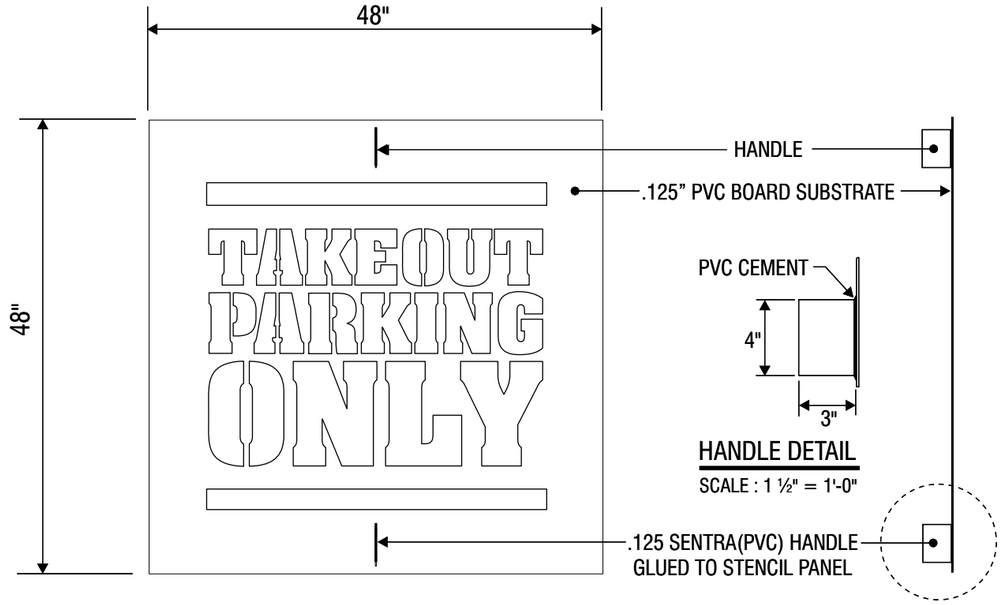


DOWN VIEW

NOTE: PANELS TO BE THRU-BOLTED.
PANEL/POST SUPPLIER RESPONSIBLE
TO INCLUDE (2) BOLT-WASHER-NUT SETS.
EXACT SIZE AS DETERMINED BY ASSIGNED DETAILER.



1 PMS 116C	
2 BLACK	#03 ARLON | BLACK VINYL
3 PMS 423C	#80 ARLON GRAPHITE VINYL (Opaque)
5 WHITE	#02 ARLON WHITE VINYL (Opaque)



K PARKING LOT STENCIL | ONE (1) REQ'D.

scale 3/4"=1'-0" 9.0 SQ.FT

MANUFACTURE ONE (1) PARKING LOT STENCIL
AS SHOWN AND NOTED. STENCIL FABRICATED OUT OF
.125 PVC BOARD (SENTRA OR EQUIV). GRAPHICS
ROUTED-OUT OF PVC BOARD. HANDLES GLUED ONTO
STENCIL BOARD FOR STENCIL REMOVAL.

NOTE: FEDERAL HEATH TO FABRICATE PARKING LOT STENCIL ONLY AND HAND OFF TO GC. PAINTING IMAGE ONTO PARKING LOT SPACES BY GC.

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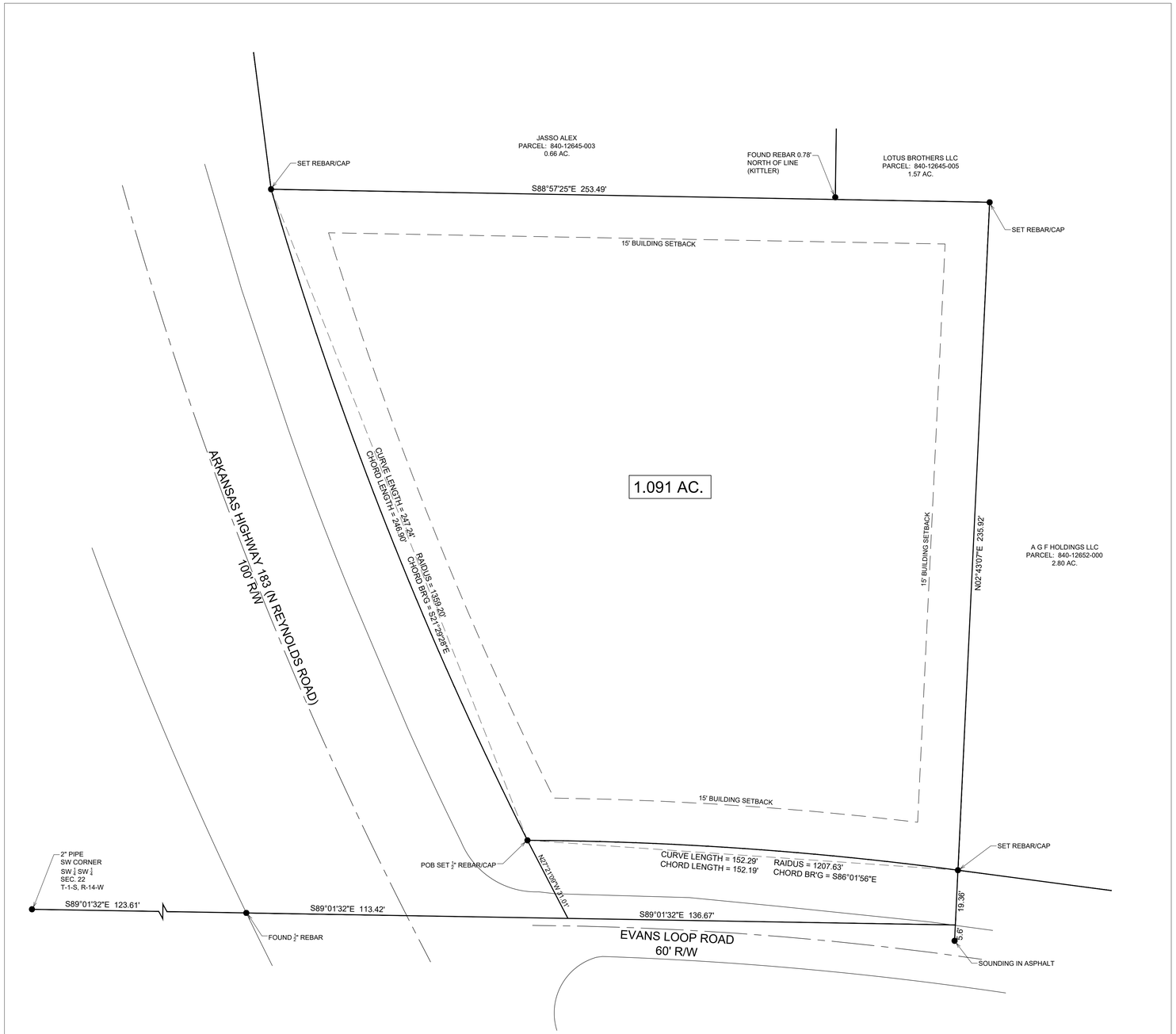
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CERTIFICATE OF ENGINEERING ACCURACY

I, Phillip Lewis, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown heron actually exist and their locations, size, type, and material are correctly shown; and that all requirements of the City of Bryant Subdivision Rules and Regulations have been fully complied with.

Date of Execution

Signed: _____
Phillip Lewis
Registered Professional Engineer
No. 9540
Arkansas

CERTIFICATE OF SURVEYING ACCURACY

I, Michael Johnston, hereby certify that this proposed preliminary plat correctly represents a survey completed by me, or under my supervision; that the boundary lines shown heron correspond with the description in the deeds cited in the above Source of Title; and that all monuments which were found or placed on the property are correctly described and located.

Date of Execution

Signed: _____
Michael Johnston
Registered Professional Land Surveyor
No. 2542
Arkansas

CERTIFICATE OF OWNER

We, the undersigned, owners of the real estate shown and described herein do hereby certify that we have laid off, platted and subdivided, and do hereby lay off, plat and subdivide said real estate in accordance with this plat.

Date of Execution

021618 FAMILY LAND TRUST LLC

CERTIFICATE OF RECORDING

This document, number _____, filed for record _____, 20___, in Plat Book _____, Page _____.

Name (Clerk)

CERTIFICATE OF FINAL PLAT APPROVAL

All requirements of the City of Bryant Subdivision Rules and Regulations relative to the preparation and submittal of a Preliminary Plat having been fulfilled, approval of this plat is hereby granted, subject of further provisions of said Rules and Regulations.

This Certificate shall expire _____

Date of Execution

Chairman
Bryant Planning Commission

LEGAL DESCRIPTION

Part of the SW ¼ SW ¼ Section 22, Township 1 South, Range 14 West, Saline County, Arkansas being more particularly described;

Commencing at the Southwest corner of the SW ¼ SW ¼ of said Section 22; thence South 89°01'32" East along the South line of said SW ¼ SW ¼ a distance of 237.04 feet to a point on the Easterly Right-of-Way line of Arkansas State Highway 183, (North Reynolds Road), (100' R/W); thence North 27°21'09" West along said Right-of-Way, a distance of 31.01 feet to the Point of Beginning on the Northerly Right-of-Way line of Evans Loop Road (60' R/W); thence along said Right-of-Way on a curve to the right having a radius 1207.63 feet, an arc length of 152.29 feet and a chord which bears South 86°01'56" East, a distance of 152.19 feet; thence North 02°43'07" East, a distance of 235.92 feet; thence North 88°57'25" West, a distance of 253.49 feet to a point on the Easterly Right of-Way line of Arkansas State Highway 183 (North Reynolds Road), (100' R/W); thence along said Right-of-Way on a curve to the left having a radius of 1359.20 feet, an arc length of 247.24 feet and a chord which bears South 21°29'28" East, a distance of 246.90 feet to the Point of Beginning containing 1.091 acres, more or less.

PROPERTY SPECIFICATIONS

OWNER: 021618 FAMILY LAND TRUST LLC
14524 CANTRELL RD STE 160
LITTLE ROCK, AR 72202

DEVELOPER/SUBDIVIDER: COLLIERS
ATTN: BRADFORD GAINES
1 ALLIED DRIVE, STE 1500
LITTLE ROCK, AR 72202

ENGINEER: PHILLIP LEWIS ENGINEERING, INC.
23620 INTERSTATE-30
BRYANT, ARKANSAS 72022

PHYSICAL ADDRESS: 2116 N REYNOLDS ROAD
BRYANT, AR 72022

ZONING CLASSIFICATION: C-2 HIGHWAY COMMERCIAL

SOURCE OF TITLE: CHICAGO TITLE INSURANCE COMPANY COMMITMENT NO.22-0041240
COMMITMENT DATE: FEBRUARY 1, 2022 AT 06:00 AM

FLOOD INFORMATION

THIS PROPERTY LIES WITHIN ZONE X ACCORDING TO FEDERAL FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 05125C0380E, EFFECTIVE JUNE 5, 2020.

PRELIMINARY PLAT

SCALE 1" = 20'

N

0 20'
1" = 20'-0"

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

REVISION:

2116 N REYNOLDS ROAD PRELIMINARY PLAT
Bryant, Arkansas

PROJECT NUMBER:

SHEET ISSUE DATE:
06/06/2022

PAGE TITLE:
PRELIMINARY PLAT

SHEET NUMBER:
C1.1

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
CONSTRUCTION ACTIVITY for

Splash Car Wash
2116 N Reynolds Road
Bryant, Arkansas 72022

National Pollutant Discharge Elimination (NPDES)
General Permit #ARR150000

Prepared for:
Splash Car Wash
Attn: Paul Stagg
2116 N Reynolds Rd
Bryant, Arkansas 72022

Date: May 2022

Prepared by:
Phillip Lewis Engineering, Inc.
23620 Interstate 30
Bryant, Arkansas 72022

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

Project Name and Location: Splash Car Wash, 2116 N Reynolds Rd Bryant, Arkansas 72022

County Parcel ID: 805-14205-00 | Saline County, Arkansas

Operator Name and Address: Splash Car Wash, 2116 N Reynolds Rd, Bryant, Arkansas 72022

A. Site Description

a. Project description, intended use after NOI is filed

An Overall Layout Map is included showing total project area of 1.091 with 0.83 Acres disturbed. that provides for buffer zones, construction of utilities, building remodel, new canopies, parking lot addition and resurfacing and landscaping improvements. All areas will be covered with vegetation or paving. Details on the Sediment and Erosion Control Plan shows drainage patterns, surface waters, storm water discharge locations and receiving streams. The Site Map included at the end of this SWPPP shows the buffer zones, approximate slopes after grading activities, area of soil disturbance, areas that will not be disturbed, location of controls and stabilization areas. A concrete washout is shown on the Site Map.

b. Sequence of major activities which disturb soils:

1. Construct stabilized construction entrance. This will be the first construction work on the project.
2. Construct the silt fences and BMP controls on the site.
3. Perform site demolition.
4. Clear and grub the site.
5. Begin grading the site.
6. Start construction of building pad and structures.
7. Temporarily seed denuded areas.
8. Install underground utilities and curbs and gutters – Sediment barriers shall be utilized as required to bound the down slope side of utility construction.
9. Prepare site for paving.
10. Pave site.
11. Complete Grading and install permanent sodding and landscaping.
12. Remove all temporary erosion and sediment control devices (only if site stabilized).

The actual schedule for implementing pollutant control measures will be determined by project construction progress. Down slope protective measures must always be in place before soil is disturbed.

c. Total Area: 1.091 Acres **Disturbed Area: 0.83 Acres**

B. Responsible Parties

Be sure to assign all SWPPP related activities to an individual or position; even if the specific individual is not yet known (i.e. contractor has not been chosen).

Individual/Company	Phone Number	Service Provided for SWPPP (i.e., Inspector, SWPPP revision, Stabilization Activities, BMP Maintenance, etc.)
		Inspection of Controls
		Stabilization, BMP Maintenance, Construction Oversite, Stormwater Inspection

C. Receiving Waters

a. The following waterbodies receive stormwater from the project property:

There is an unnamed waterbody which receives stormwater from the site that eventually turn into crooked creek.

b. Is the project located within the jurisdiction of an MS4? Yes

If yes, Name of MS4: City of Bryant

c. Ultimate Receiving Water: Ouachita River

D. Site Map Requirements, shown on Site Map and to be Revised for Construction:

a. Pre-construction topographic view
b. Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed under the coverage of this permit;
d. Location of major structural and nonstructural controls identified in the plan;
e. Location of main construction entrance and exit;
f. Location where stabilization practices are expected to occur;
g. Locations of off-site materials, waste, borrow area, or equipment storage area;
h. Location of areas used for concrete wash-out;
i. Location of all surface water bodies (including wetlands);
j. Locations where stormwater is discharged to a surface water and/or municipal separate

storm sewer system if applicable,

k. Locations where stormwater is discharged off-site (should be continuously updated);

l. Areas where final stabilization has been accomplished and no further construction phase permit requirements apply.

m. A legend that identifies any erosion and sediment control measure symbols/labels used in the site map and/or detail sheet; and

n. Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

E. **Other Potential Pollution Sources:**

i. Concrete – Source: Foundation and Curb and Gutter
ii. Curing Compound – Source: Concrete Finishing
iii. Waste Concrete – Truck Washout
iv. Sediment – Disturbed Soil Area
v. Paints and Solvent – Painting Operations
vi. Petroleum Based Product – Equipment and Vehicles
vii. Emulsified Asphalt – Paving Operations
viii. Trash/Litter/Debris – General Construction Activities
ix. Sanitary Waste – Portable Toilets
x. Potentially Hazardous Materials – General Construction Activities

The concrete washout will be located at the construction entrance/exit while the other sources of potential pollution will be located on the temporary parking/storage areas of the site.

F. Stormwater Controls

a. Initial Site stabilization, Erosion and Sediment Controls, and Best Management Practices:

i. Initial Site Stabilization: Construct sediment fence if needed and entrance/exit pad if tracking onto roads occurs
ii. Erosion and Sediment Controls: Sediment fence, straw waddles, waddles or bales for stormwater inlet protection on and in the vicinity of the project.
iii. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the operator will replace or modify the control for site situations: Yes
iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts: Yes
v. Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%: Yes
vi. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges: Yes

vii. Off-site material storage areas used solely by the permitted project are not being used for this project

b. Stabilization Practices

i. Description and Schedule: Disturbed areas will be vegetated once work is ceased in a particular area. Driveway and parking areas will be paved immediately after subgrade is developed.

ii. Are buffer areas required? No, but buffer areas are provided and consists of undisturbed areas.

iii. A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be done with the project.

iv. **Deadlines for Stabilization**: Stabilization procedures

1. Stabilization procedures will be initiated 14 days after construction activity temporarily ceases on a portion of the site.
2. Temporary Seeding or Stabilization: Must initiate stabilization measures immediately, but not more than 14 days after construction activity ceases on any particular area, all disturbed ground where there will be no construction for longer than 14 days must be seeded with fast-germinating temporary seed and protected with mulch. Stockpiles and diversion ditches/berms must be stabilized to prevent erosion and dust issues. Where temporary stabilization measure are not appropriate, adequate erosion and sediment controls and appropriate maintenance must be implemented. Temporary stabilization may be used whenever construction activities are expected to resume in the area to be stabilized or when weather or other conditions are not appropriate for initiation of permanent stabilization.
3. Permanent Seeding: All areas at final grade must be seeded or sodded immediately, but not more than 14 days after completion of the major construction activity. Except for small level spots, seeded areas should generally be protected with mulch. See immediately after final grade is achieved and soils are prepared to take advantage of soil moisture and see germination. At the completion of ground-disturbing activities the entire site must have permanent vegetative cover, meeting vegetative density requirements, or mulch per landscape plan, in all areas not covered by hardscape (pavement, building, etc.) To minimize the potential for erosion and maximize seed germination & growth, the General Contractor must evaluate the short and long-term local forecast prior to applying permanent seed or sod.

c. Structural Practices

i. Describe any structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: sediment fences and rock check dams will be used to prevent scouring in ditches or from sheet flow.

ii. Sediment Basins:
Are 10 or more acres draining to a common point? No
Is a sediment basin included in the project? No
iii. Describe Velocity Dissipation Devices: N/A

G. Other Controls

a. Solid materials, including building materials, shall be prevented from being discharged to Waters of the State: Yes
b. Off-site vehicle tracking of sediments and the generation of dush shall be minimized through the use of: A stabilized construction entrance and exit pad if tracking occurs
c. Temporary Sanitary Facilities: These will be provided by; _____

All personnel involved with construction activities must comply with state and local sanitary or septic system regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a commercial operator. Portable toilets must be securely anchored and are not allowed with 30' of inlets or permitted limit of disturbance or with 50' of a water of the State.

d. Concrete Waste Area Provided: Yes
e. Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas: Are not used for this project
f. Dust Control: Construction must enter and exit the site at the stabilized construction exit. The purpose is to trap dust and mud that would otherwise be carried off-site by construction traffic. Large areas of soil that are denuded of vegetation and have no protection or from particles being picked up and carried by wind should be protected with a temporary cover or kept under control with water or other soil adhering product to limit wind transported particles existing the site perimeter. Water trucks or other dust controls agents will used as needed during construction minimize dust generated from the site.

H. Non-Stormwater Discharges

a. The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:

Potable water sources including uncontaminated waterline flushings;
Landscape Irrigation;
Routine external building wash down which does not detergents or other chemicals;
Uncontaminated are conditioning, compressor condensate (See Part I.B.12.C of the Permit;,
Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.12.C of the permit);

b. Describe any controls associated with non-stormwater discharges present at the site:

None

I. Applicable State or Local Programs: The SWPPP will be updated as necessary to reflect any revisions to applicable federal, state, or local requirements that affect the stormwater controls implemented at the site.

J. Hazardous Material Management and Spill Reporting Plan

Any hazardous or potentially hazardous material that is brought onto the construction site will be handled properly in order to reduce the potential for storm water pollution. All materials used on this construction site will be properly stored, handled, dispensed, and disposed of following all applicable label directions.

Material Safety Data Sheets (MSDS information will be kept on site for any and all applicable materials.)

In the event of an accidental spill, immediate action will be undertaken by the General Contractor to contain and remove the spilled materials All hazardous materials will be disposed of by the Contractor in the manner specified by federal, state and local regulations and by the manufacturer of such products. As soon as possible, the spill will be reported to the appropriate agencies. As required under the provisions of the Clean Water Act, any spill or discharge entering waters of the United States will be properly reported. The General Contractor will prepare a written record of any spill and associated clean-up activities of petroleum products or hazardous materials in excess of 1 gallon or reportable quantities, whichever is less. It is recommended that the contractor take photos to document spill clean-up measures and attach the photos to the Spill Report Form. All spill information must be transferred to the next inspection report and resolved as appropriate.

If the spill greater than the applicable reportable quantity, the contractor must follow the information below:

a. The permittee is required to notify the National Response Center (NRC) (800-424-8802) as soon as permittee has knowledge of the discharge;

b. Permittee shall prepare, within 14 days of knowledge of the release, a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, what actions were taken to mitigate effects of the release, and steps to be taken to minimize the chance of future occurrences and retain with the SWPPP.

c. The SWPPP must be updated within 14 days of knowledge of the release to provide a description of the release, the circumstances lading to the release, and the date of the

release. This can be accomplished by including a cop of the written description of the release as described above in Item B.

In order to minimize the potential for a spill of petroleum product or hazardous materials to come in contact with storm water, the following steps will be implemented:

a. All material with hazardous properties (such as pesticides, petroleum products, fertilizers, detergents, construction chemicals, acids, paints, paint solvents, additives for soil stabilization, concrete, curing compounds and additives, etc.) will be stored in a secure location, under cover, when not in use.

b. The minimum practical quantity of all such materials will be kept on the job site and scheduled for delivery as close to time of use as practical.

c. A spill control and containment kit (containing for example, absorbent materials such as kitty litter or sawdust, acid neutralizing agent, brooms, dust pans, mops, rags, glove, goggles, plastic and metal trash containers, etc. shall be provided.

d. All of the product in a container will be used before the container with original product label.

e. All products will be stored in and used from the original container with original product label.

f. All products will be used in strict compliance with instructions on the product label.

g. The disposal of excess or used products will be in strict compliance with instruction on the products label.

K. Inspections

a. Inspection frequency: Every 14 calendar days and within 24 hours of a storm event of 0.25 inches or greater (a rain gauge must be maintained on site)
b. Inspections: Completed inspection forms will be kept with the SWPPP and ADEQ's form will be used (See Appendix B)
c. Inspection records will be retained as part of the SWPPP for at least 3 years from the date of termination.
d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections.
    i. Winter Conditions (Part II.A.4.L.3)
    ii. Adverse Weather Conditions (Part II.A.4.L.4)

L. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control

measures and other protective measures in good, effective operating condition will be followed:

a. A rain gauge must be maintained on site.
b. The following are maintenance practices that will be used to maintain erosion and sediment controls.
c. All measures will be maintained in good working order; and if a repair is necessary, it will be initiated within three (3) business days of discovery, or as otherwise directed by state or local officials.
d. Accumulated sediment will be removed from the silt fence, straw bales and sediment basins when it has reached one-fourth the height of the fence, bale or depth of the basin.
e. Sediment fence, rock or sand bag check dams and sediment basins will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the posts or anchored by stakes, and to see that the posts or stakes are firmly in the ground.
f. Small diversion sediment basins and rock or sand bag check dams will be cleaned as necessary to prevent overflow or bypassing.
g. Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and health growth and repaired as necessary.

Any necessary repairs will be completed, when practicable, before the next storm event, but not to exceed a period of 3 business days of discovery, or as otherwise directed by state or local officials.

M. Employee Training:

Employee training must be provided annually, as new employees are hired, or as necessary to ensure personnel are informed of their responsibility in implementing the practices and controls included in the SWPPP and to ensure compliance with the SWPPP and general permit. A stormwater Pollution Prevention Training Log should be kept on site in order to log dates, hours, topics, objectives, attendee roster, etc., of any employee training that takes place.

Training topics that should be addressed, at minimum, include Erosion Control BMPs, Sediment Control BMPs, Non-Stormwater BMPs, Emergency Procedures, and Good Housekeeping BMPs.

Certification

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official: _____

Title: _____ Date: _____

LIST OF APPENDICES

APPENDIX “A” - CONTACT LIST

APPENDIX “B” - CONTRACTOR/SUB-CONTRACTOR LIST

APPENDIX “C” - VICINITY MAP & USGS MAP

APPENDIX “D” - INSPECTION REPORT & GENERAL CONTRACTOR’S DELEGATED INSPECTOR FORM

APPENDIX “E” - RECORD OF STABILIZATION AND CONSTRUCTION ACTIVITIES DATES

APPENDIX “F” - SOIL REPORT AND MAP

APPENDIX “G” - SPILL REPORT FORM

APPENDIX “H” - ADDITIONAL SITE INSPECTOR LOG

APPENDIX “I” - WEEKLY STORMWATER MEETING LOG

APPENDIX “J” - CORRECTIVE ACTION LOG

APPENDIX “K” - SWPPP AMENDMENT LOG

APPENDIX “L” - RAIN GAUGE LOG

APPENDIX “M” - SWPPP TRAINING LOG

APPENDIX “N” - EROSION CONTROL PLAN & DETAILS

APPENDIX “O” - ADEQ PERMIT ARR150000

APPENDIX “P” - ARR150000 SMALL SITE NOTICE OF COVERAGE (NOC)

APPENDIX "A"

CONTACT LIST

CONTACT LIST

Contacts for: **Camping World, Alvarado, TX** Date: _____

Responsible for conducting monthly inspections, conducting the final site inspection after verifying final stabilization and overseeing compliance with all applicable permits, the Clean Water Act, and the site SWPPP.

Responsible Contractor's Compliance Officer:

Name: _____

Company: _____

Phone: _____

Responsible for the supervision or completion of construction at a site and able to adequately identify and implement storm water sedimentation and erosion control practices and effectively instruct employees and contractors in the implementation of such practices.

Project Superintendent:

Name: _____

Company: _____

Phone (office): _____

Phone (mobile): _____

Responsible for SWPPP inspection at a site; is available 24-hours a day and can easily visit the site when needed in case of an emergency; able to adequately identify and implement storm water sediment and erosion control practices and effectively instruct employees and contractor in the implementation of such practices.

24-hour Emergency Contact:

Name: _____

Company: _____

Phone (office): _____

Phone (mobile): _____

Responsible for overseeing activities and work at a site; has the authority to direct employees and contractors to undertake actions to comply with all applicable permits, the Clean Water Act, and the site's SWPPP.

Construction Manger:

Name: _____

Company: _____

Phone (office): _____

Phone (mobile): _____

Note to General Contractors: Date this form each time contact information is added or updated. Do not erase information from this form. If information is incorrect or outdated, line through incorrect / outdated information and write in correct / new information. If contact information changes more than once, create a new update Contact List, date, and place on top of old Contact List in the SWPPP Binder.

APPENDIX "B"

Contractor/Sub-Contractor List

Company/Firm	Name	Address	Phone Number	Responsibility/Trade

APPENDIX "C"

VICINITY MAP & USGS MAP


Little Caesars Pizza
Pizza · $
Mi Ranchito
Mexican · $
N Reynolds Rd
Roya Ln
2030 Evans Loop,
Bryant, AR 72022
Kid's Academy
Evans Loop
Evans Loop
Fast Food · $

APPENDIX "D"

INSPECTION REPORT & GENERAL CONTRACTOR'S DELEGATED INSPECTOR FORM

General Contractor's Inspector
Delegation of Authority

I, _____ (name), hereby designate the person or specifically described postion below to be a duly auhorized representative for the purpose of overseeing compliance with environmental requirement, including the Construction General Permit, at the Camping World construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such designation as set forth in the Wyoming Large Construction General Permit for Storm Water, and that the designee above meets the definition of a "duly authorized representative" as set forth in the Wyoming Large Construction General Permit for Stom Water.

I certify under penalty of law that this document and all attachment were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of find and imprisonment for knowing violations.

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

STORM WATER POLLUTION PREVENTION PLAN INSPECTION REPORT

Completion Date: _____

Contractor: _____ Inspector: _____ Inspection Date: _____

Inspector's Qualifications*: Inspection Time: _____

_____ Reason for Inspection: _____

SITE CONDITIONS:

POLLUTANT CONTROL	IN CONFORMANCE	EFFECTIVE	LOCATION OF NON-CONFORMANCE
Construction Entrance	YES NO NA	YES NO NA	
Sediment Barriers, Fences, etc.	YES NO NA	YES NO NA	
Storage/Disposal Areas	YES NO NA	YES NO NA	
Sediment Pond	YES NO NA	YES NO NA	
Outfall Locations	YES NO NA	YES NO NA	
	YES NO NA	YES NO NA	

DEFICIENCIES NOTED: (Explain each "NO" circled above)

REMEDIAL ACTIONS TO BE TAKEN:

COMMENTS:

Based on the results of the inspection, necessary control modifications shall be implemented within 7 calendar days. This report shall be kept on file by the General Contractor as part of the Storm Water Pollution Prevention Plan for at least 5 years from the date of completion and submission of the Notice of Termination.

☐ *Based on the results the inspection, the site is in compliance with the SWPPP and the generalpermit. No corrective measures need to be made at this time.*

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name: _____

Address: _____

Phone: _____

_____ Date: _____

(Authorized Signature*)

*It is the General Contractor's responsibility to insure that the inspector has been properly authorized under the applicable General Permit Regulations to sign these inspection forms.

APPENDIX "E"

RECORD OF STABILIZATION

SITE STABILIZATION and CONSTRUCTION ACTIVITY DATES

A record of dates when stabilization measures are initiated, when major grading activities occur, and when construction activities temporarily or permanently cease on a portion of the site shall be maintained until final site stabilization is achieved and the Notice of Termination is filed.

MAJOR STABILIZATION AND GRADING ACTIVITIES

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

Description of Activity:_____
Site Contractor: _____ Begin (date): _____ End(date):_____
Location:_____

APPENDIX "F"

SOIL REPORT & MAP

APPENDIX "G"

SPILL REPORT FORM

Spill Report Form

Spill Reported by: _____

Date/Time Spill: _____

Describe spill location and events leading to spill: _____

_____

Material spilled: _____

Source of spill: _____

Amount spilled: _____ Amount spilled to waterway: _____

Containment or clean up action: _____

_____

Approximate depth of soil excavation: _____

List Injuries or Personal Contamination: _____

Action to be taken to prevent future spills: _____

_____

Modification to SWPPP, including required sampling, necessary due to this spill: _____

_____

Agencies notified of the spill: _____

_____

_____

" I certify under penalty of law that this document and allattachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblility of fine and imprisonment for knowing violations.

_____ _____

Contractor / Superintendent Date

APPENDIX "H"

ADDITIONAL SITE INSPECTOR LOG

Federal, State, or Local Storm Water or other Environmental Inspector Site Visit Log

Inspectors Name: _____ Agency: _____

Contractors Representative Present: _____

Others Present: _____

Comments: _____

Time and Date: _____ Report Prepared: Yes No

Inspectors Name: _____ Agency: _____

Contractors Representative Present: _____

Others Present: _____

Comments: _____

Time and Date: _____ Report Prepared: Yes No

Inspectors Name: _____ Agency: _____

Contractors Representative Present: _____

Others Present: _____

Comments: _____

Time and Date: _____ Report Prepared: Yes No

Inspectors Name: _____ Agency: _____

Contractors Representative Present: _____

Others Present: _____

Comments: _____

Time and Date: _____ Report Prepared: Yes No

APPENDIX "I"

WEEKLY STORMWATER MEETING LOG

Weekly Storm Water Meeting Review and Comment Form

Project Site Superintendent: _____ Date and Time: _____

Others Present: NAME TITLE COMPANY

Installation/Removal of BMPs (include subcontractors performing the activities): _____

_____

BMP Maintenance and Repair (include subcontractors performing the activities): _____

_____

Non-effective BMPs: _____

Efforts to mitigate or correct non-effective BMPs: _____

_____

Status of staging areas, storage, borrow, fill, concrete wash-out, and exits: _____

_____

Upcoming Activities: _____

Modifications or additions to SWPPP or project phasing: _____

_____

Finding, Conclusions & Additional Information: _____

_____

APPENDIX "J"

CORRECTIVE ACTION LOG

Inspection Date:	Inspector Name(s):	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/Responsible person

APPENDIX "K"

SWPPP AMENDMENT LOG

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

APPENDIX "L"

RAIN GAUGE LOG

Date of Reading	Reading (In)	Date of Reading	Reading (In)

APPENDIX "M"

SWPPP TRAINING LOG

Stormwater Pollution Prevention Training Log

Project Name: **Camping World**

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: __ Date: _____

Course Length (hours): _

Stormwater Training Topic: *(check as appropriate)*

- ❑ **Erosion Control BMPs**
- ❑ **Emergency Procedures**
- ❑ **Sediment Control BMPs**
- ❑ **Good Housekeeping BMPs**
- ❑ **Non-Stormwater BMPs**

Specific Training Objective:_____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

APPENDIX "N"

EROSION CONTROL PLAN & DETAILS

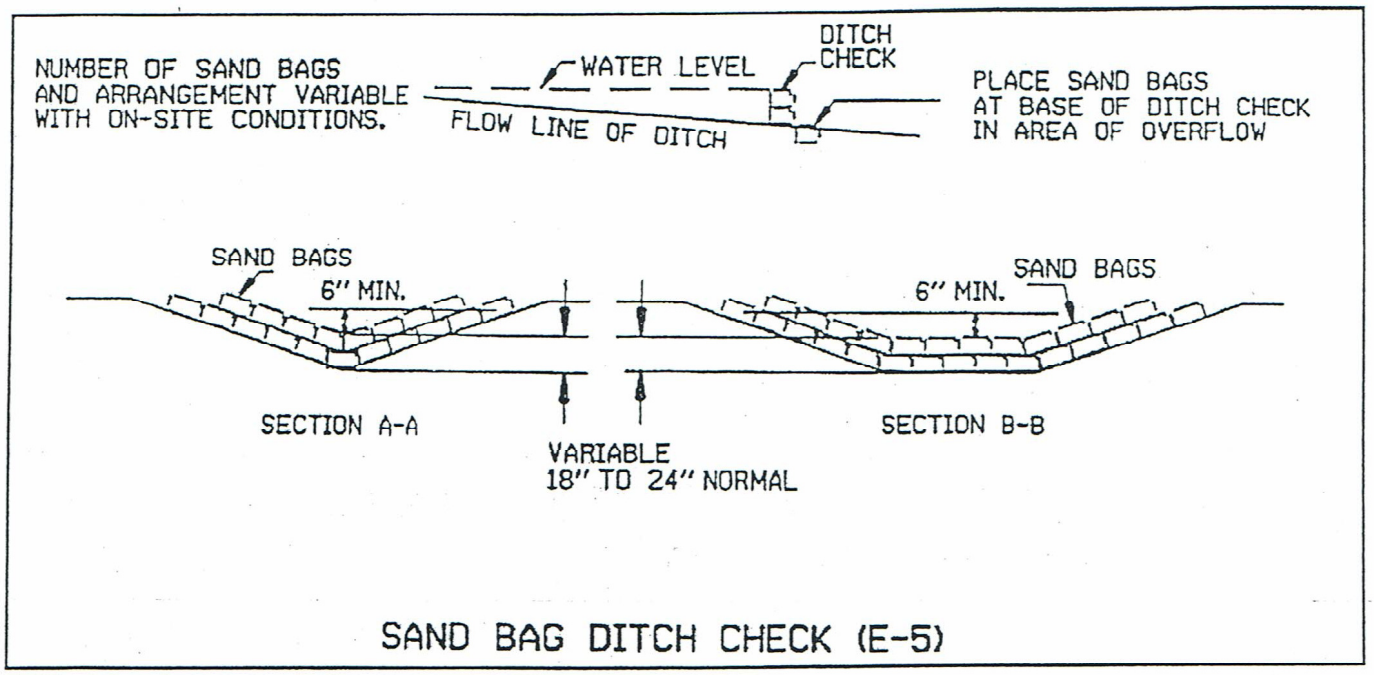


Exhibit 1100-5

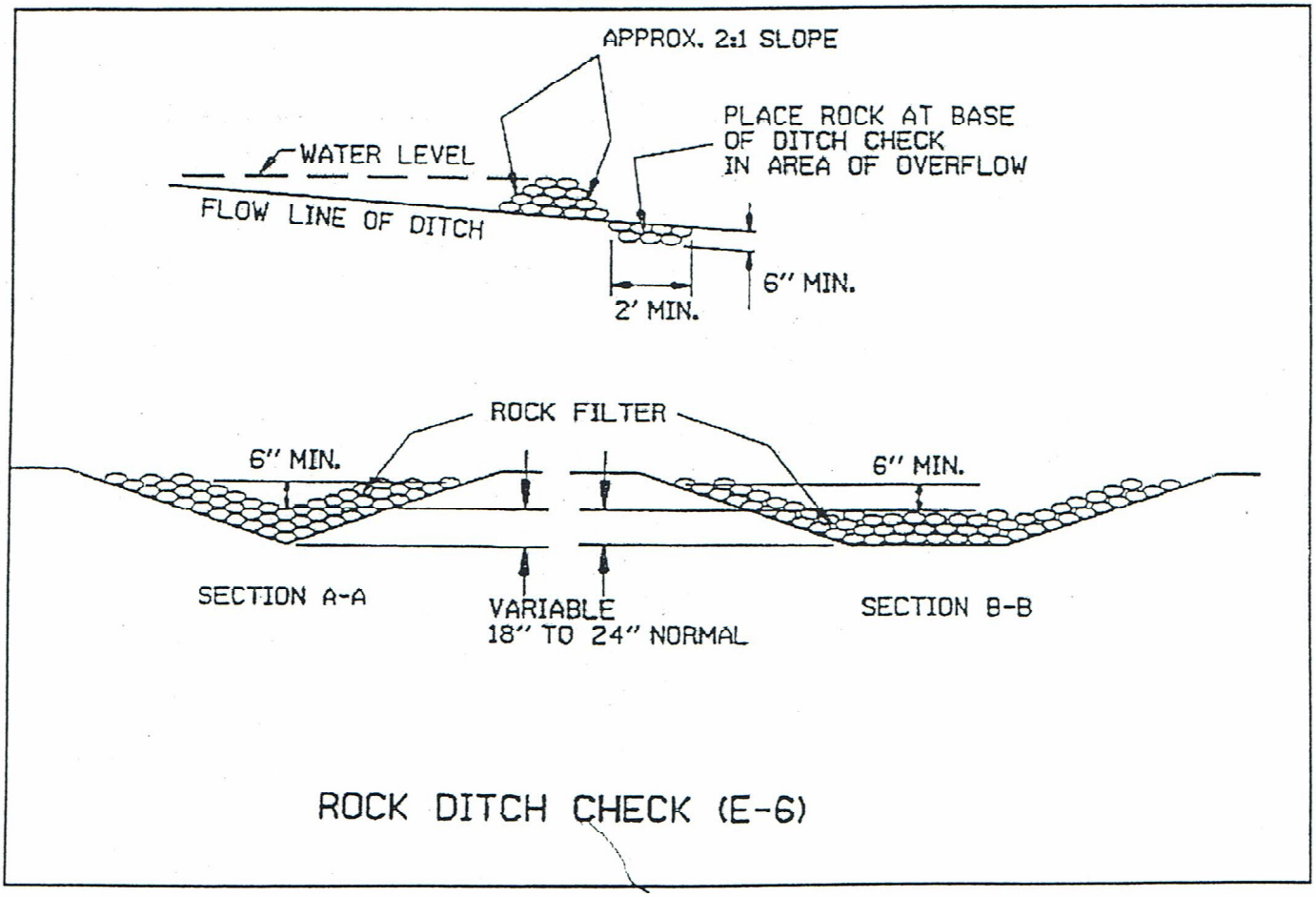
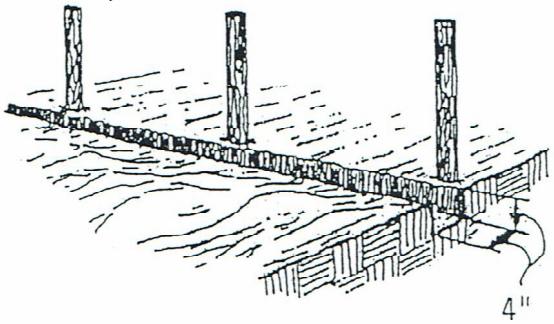


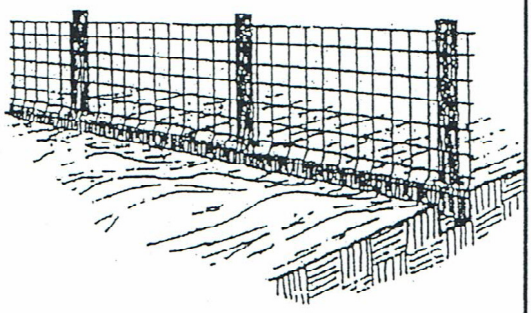
Exhibit 1100-6

(Source: Arkansas Highway and Transportation Department Drainage Manual)

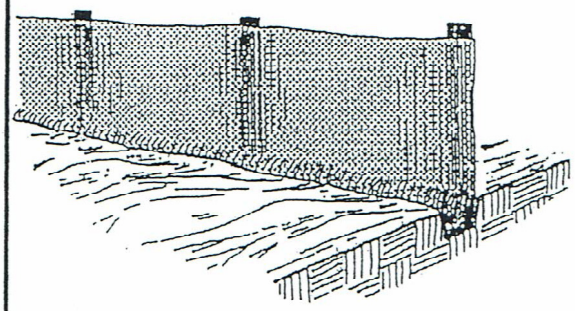
1. Set posts and excavate a 4"x4" trench upslope along the line of posts.



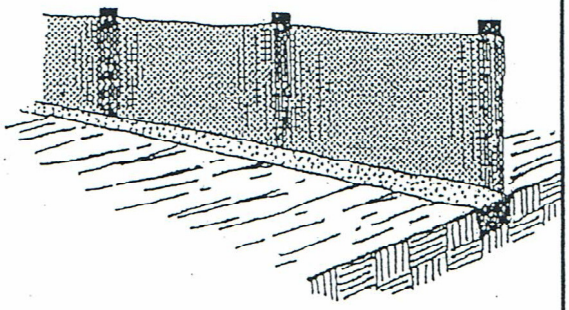
2. Staple wire fencing to the posts.



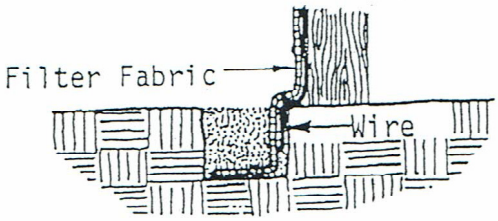
3. Attach the filter fabric to the wire fence and extend it into the trench.



4. Backfill and compact the excavated soil.



Extension of fabric and wire into the trench.



CONSTRUCTION OF A SILT FENCE

Exhibit 1100-7

(Source: Virginia Erosion and Sediment Control Handbook)

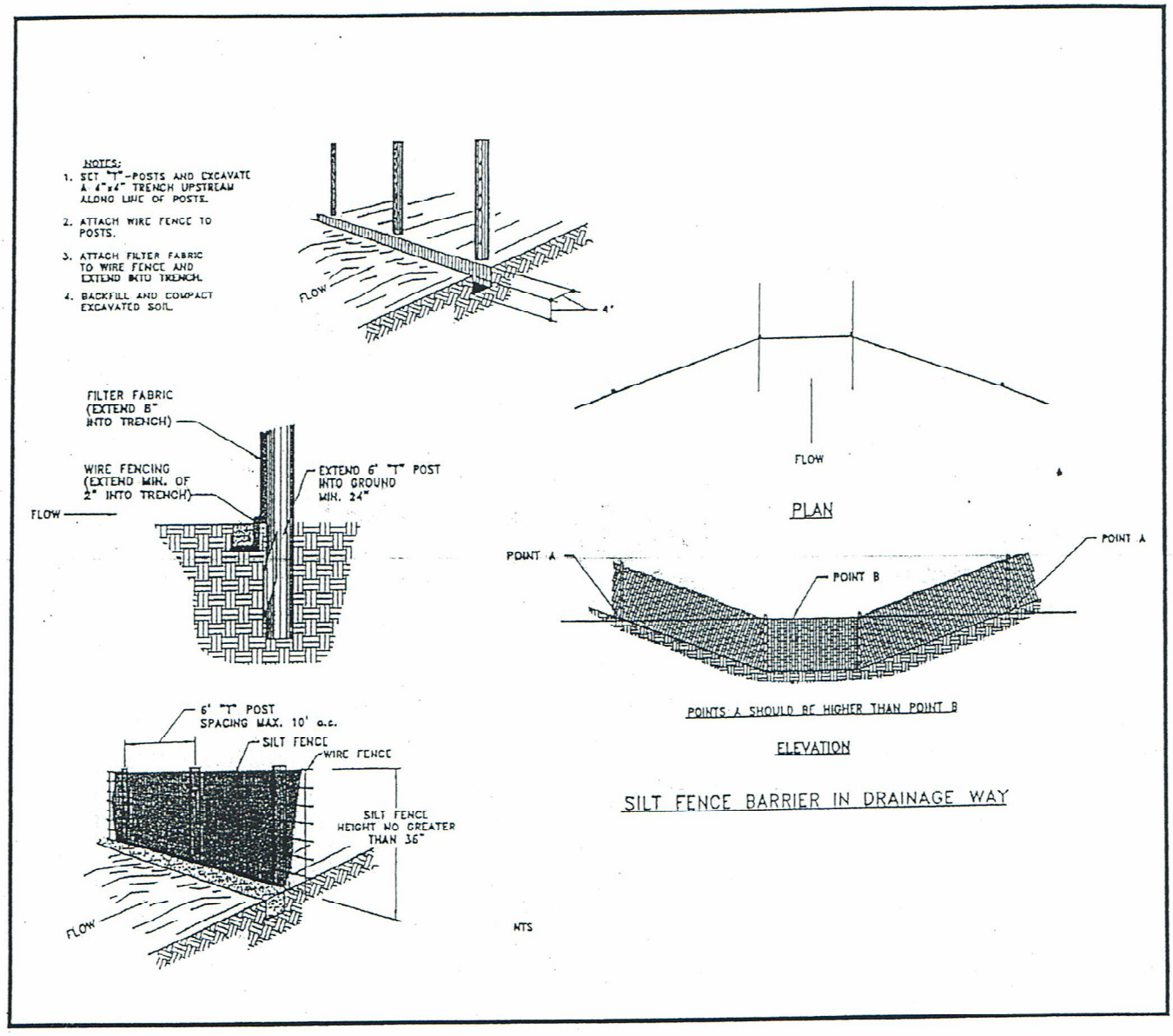
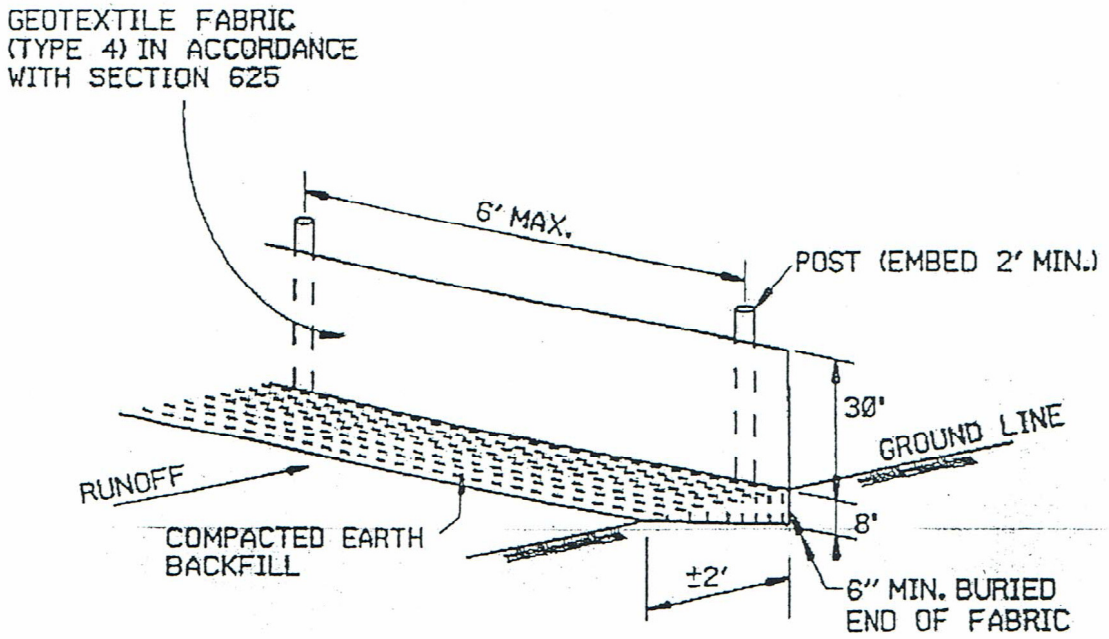


Exhibit 1100-8



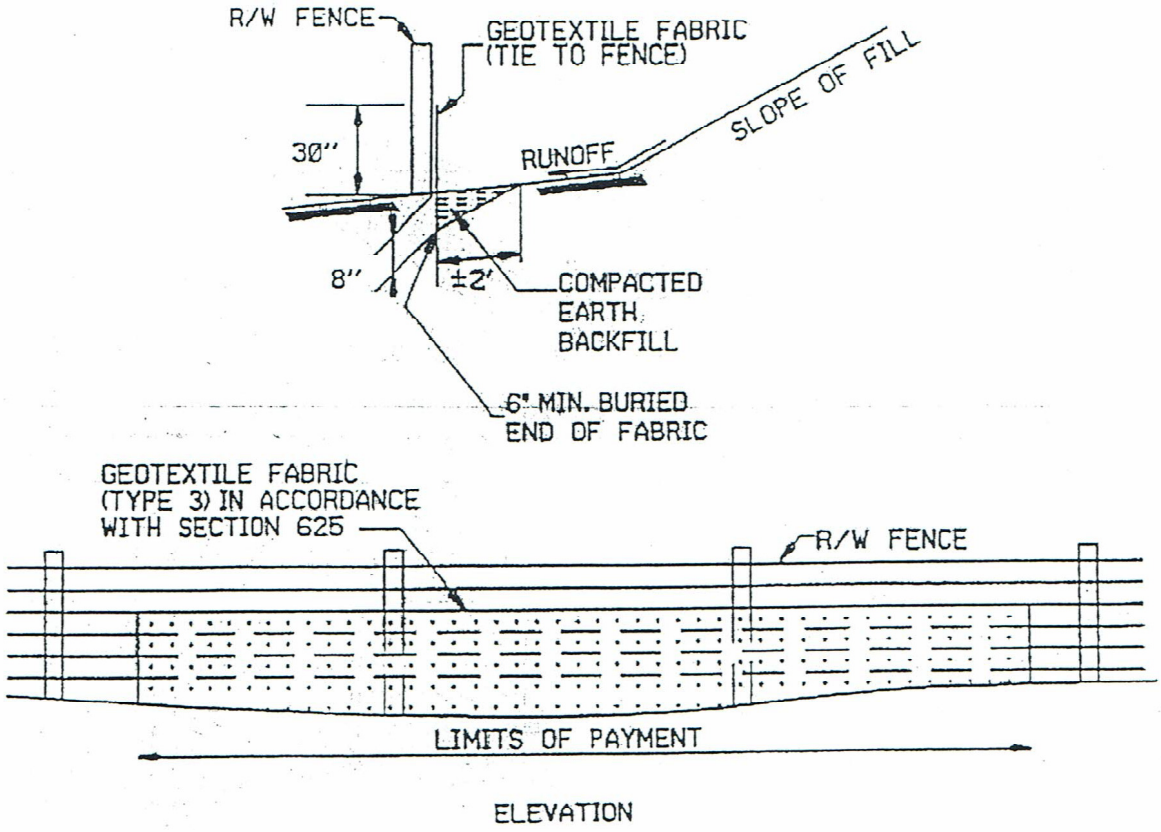
SILT FENCE (E-11)

GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

Exhibit 1100-9

(Source: Arkansas Highway and Transportation Department Drainage Manual)



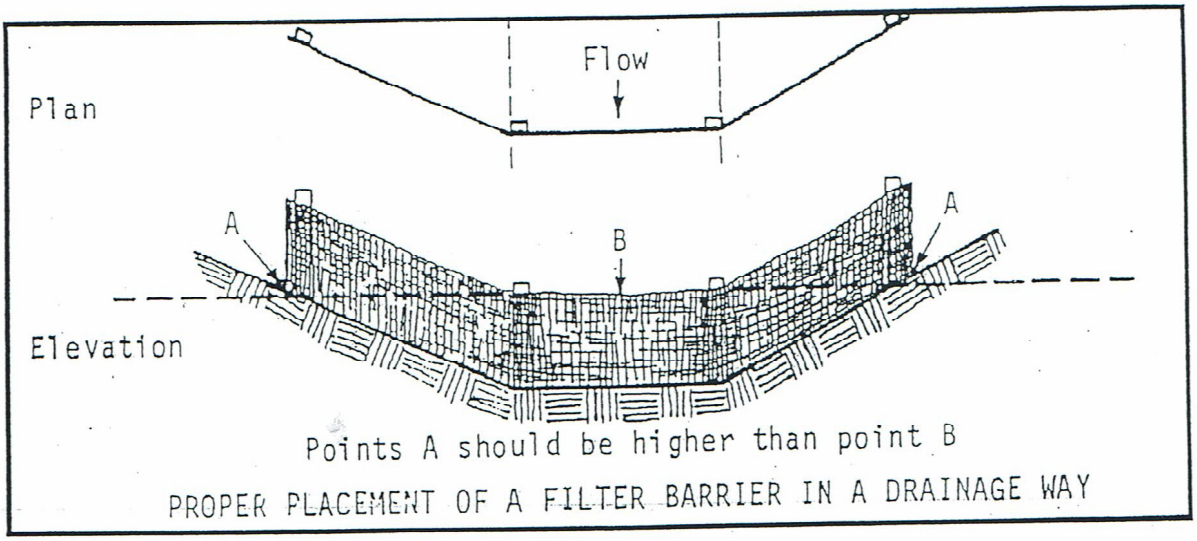
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

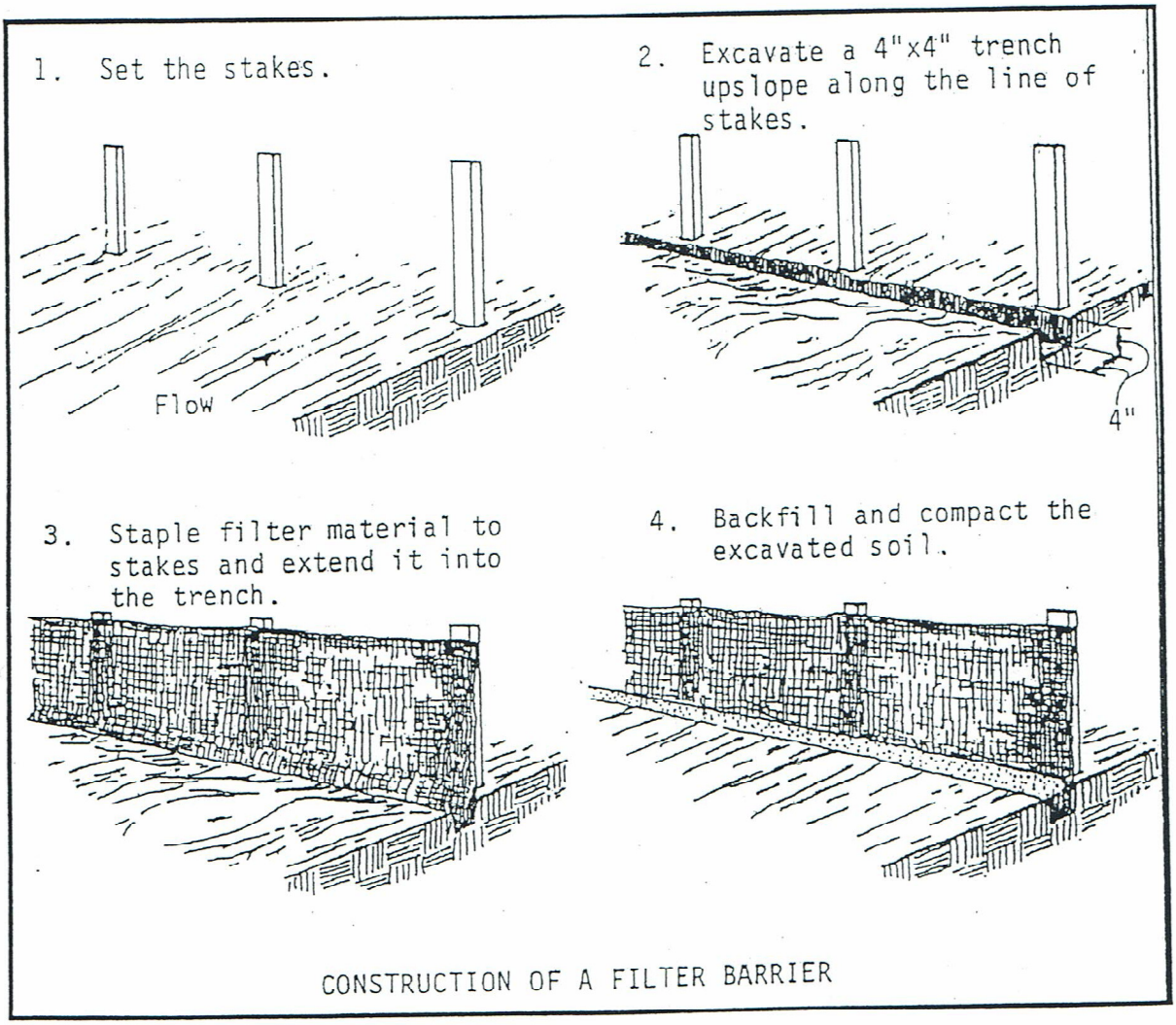
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

Exhibit 1100-10

(Source: Arkansas Highway and Transportation Department Drainage Manual)



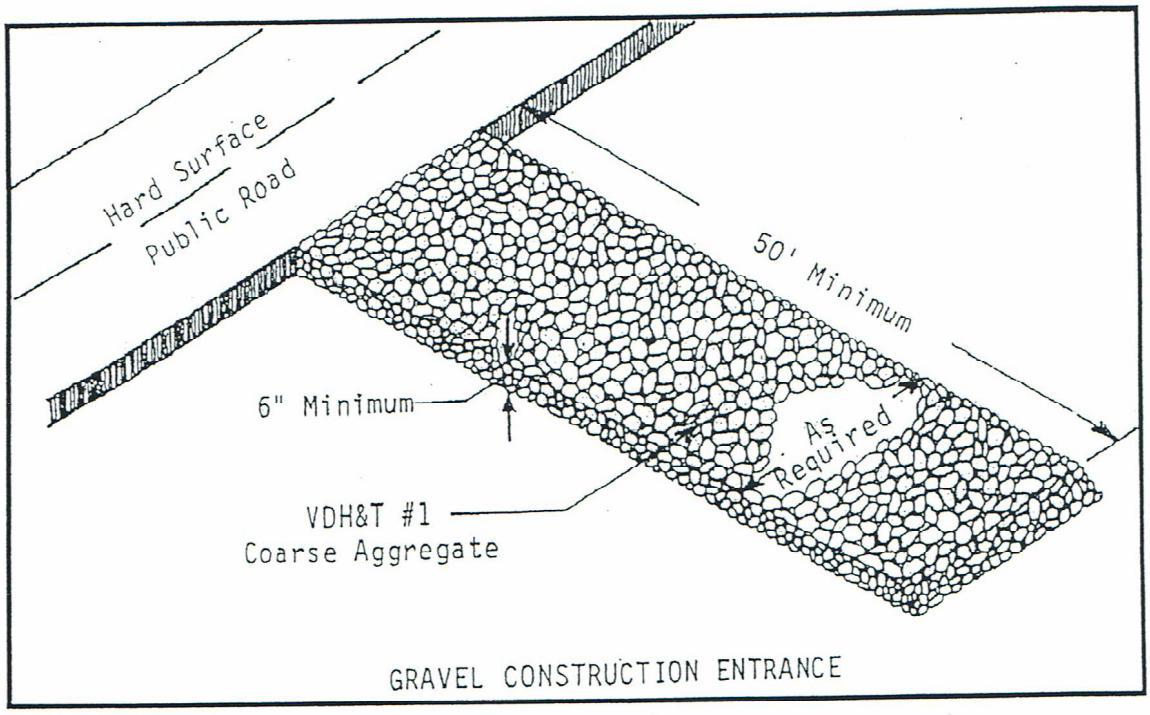
PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY



CONSTRUCTION OF A FILTER BARRIER

Exhibit 1100-11

(Source: Virginia Erosion and Sediment Control Handbook)



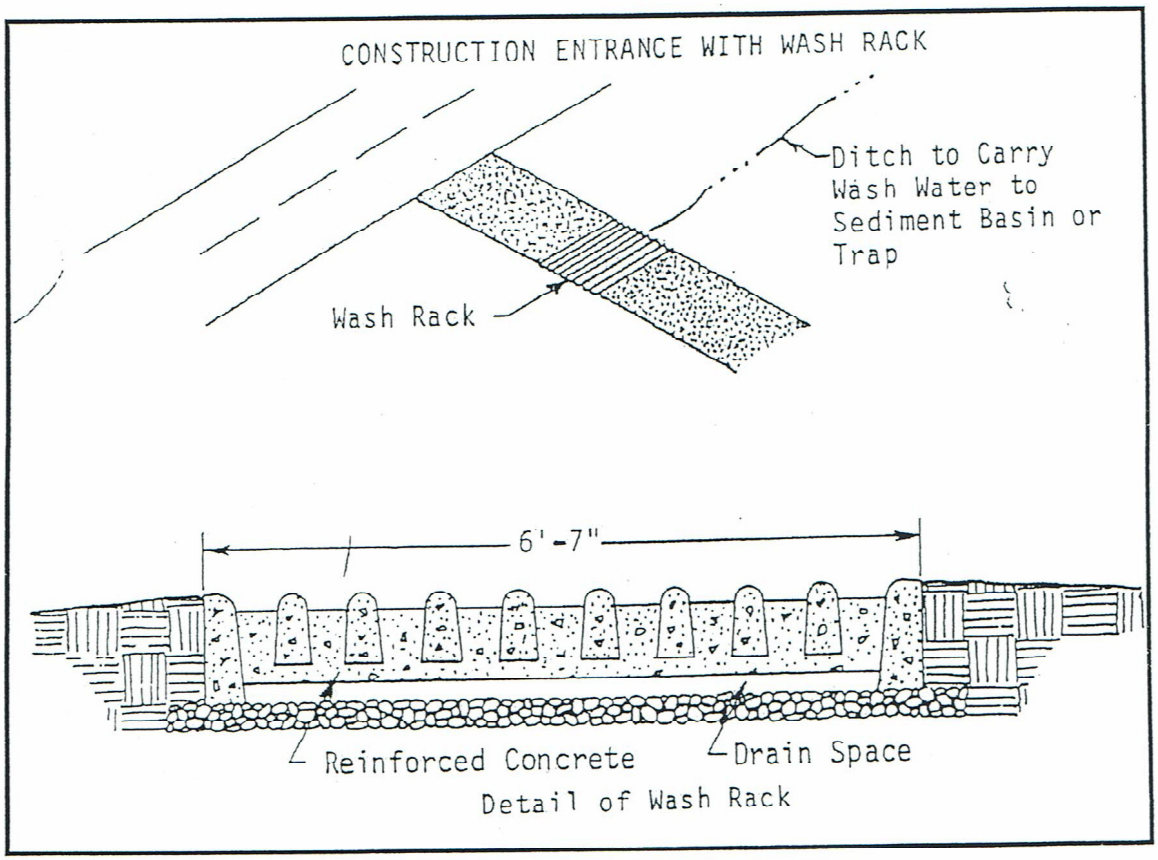
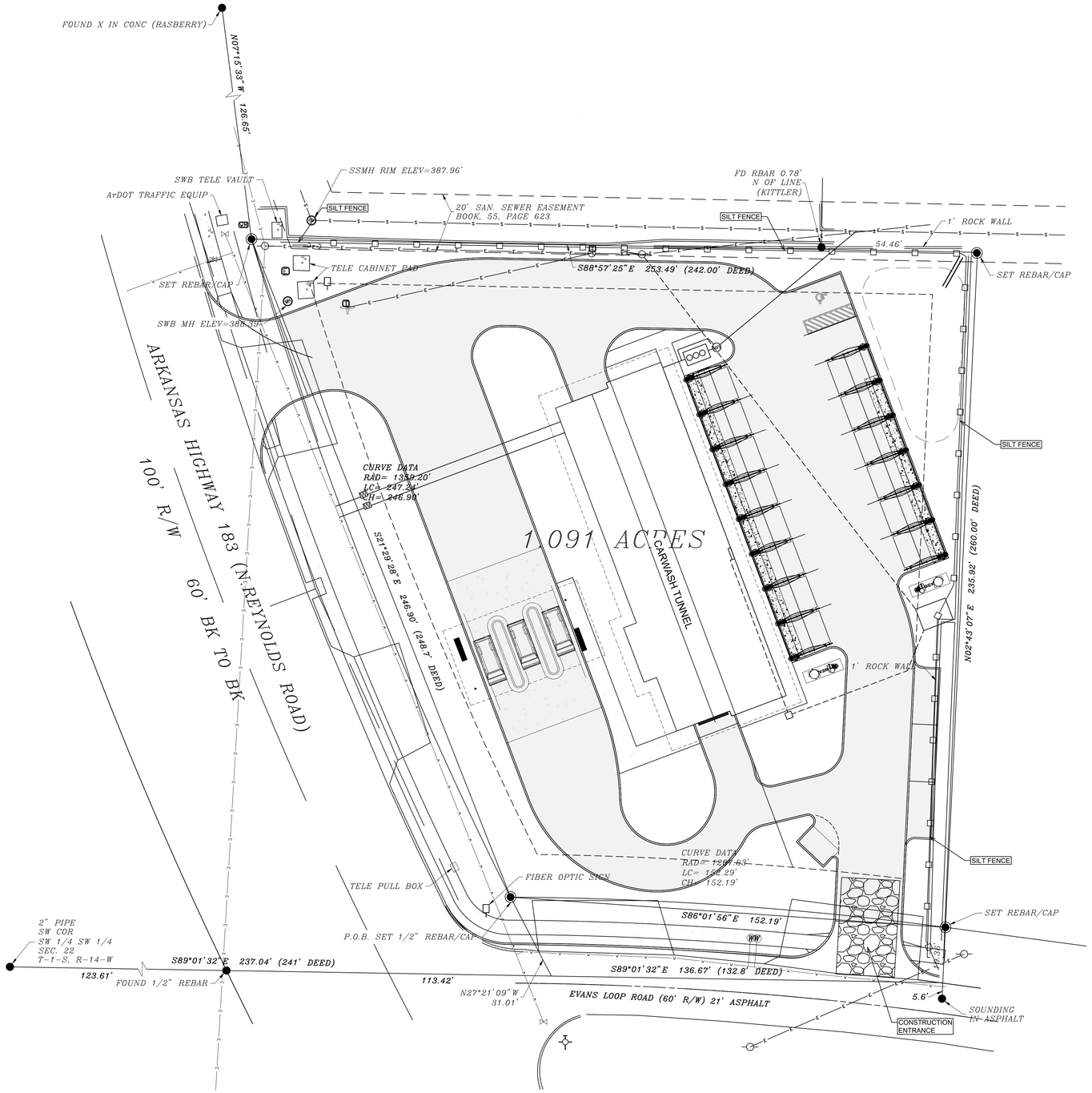


Exhibit 1100-12

(Source: Virginia Erosion and Sediment Control Handbook)



STORM WATER PREVENTION PLAN

SCALE 1" = 20'

G = GUTTER ELEVATION
TC = TOP OF CURB ELEVATION

GENERAL CONSTRUCTION NOTES

A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.

B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF BRYANT TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT WATER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.

H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.

J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

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

REVISION:

SPLASH CARWASH
BRYANT, ARKANSAS

PROJECT NUMBER:

SHEET ISSUE DATE:
5/11/2022

PAGE TITLE:
STORM WATER POLLUTION PREVENTION PLAN

SHEET NUMBER:
C-1.7

N

0 20'

1" = 20'-0"

APPENDIX "O"

ADEQ PERMIT ARR150000

AUTHORIZATION TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. 1251 et seq.), an

Operator of Facilities with Stormwater Discharges Associated with Construction Activity

is authorized to discharge to all receiving waters except as stated in Part I.B.11 (Exclusions).

For large construction sites that are eligible for coverage under this General Permit (GP), the Arkansas Department of Energy and Environment - Division of Environmental Quality (DEQ), Office of Water Quality will provide a Notice of Coverage (NOC) with tracking permit number which starts with ARR15 and a copy of the permit to the facility. The cover letter includes the DEQ's determination that a facility is covered under the GP and may specify alternate requirements outlined in the permit.

Small construction sites that are eligible for coverage under this GP will be considered to have automatic coverage under this GP and must follow the permit requirements outlined in Condition 6 of Part I.

Effective Date: November 1, 2021

Expiration Date: October 31, 2026



Alan J. York
Associate Director, Office of Water Quality
Division of Environmental Quality

05/04/2021
Issue Date

PART I
PERMIT REQUIREMENTS

Information in **Part I** is organized as follows:

Section A: Definitions with Included Commentary
Section B: Coverage Under this Permit:

1. Permitted Area
2. Eligibility
3. Responsibilities of the Operator
4. Where to Submit
5. Requirements for Qualifying Local Program (QLP)
6. Requirements for Coverage
7. Notice of Intent (NOI) Requirements
8. Posting Notice of Coverage (NOC)
9. Applicable Federal, State or Local Requirements
10. Allowable Non-Stormwater Discharges
11. Limitations on Coverage (Exclusions)
12. Short Term Activity Authorization (STAA)
13. Effluent Limitation Guidelines (ELG)
14. Natural Buffer Zones
15. Waivers from Permit Coverage
16. Notice of Termination (NOT)
17. Responsibilities of the Operator of a Larger Common Plan of Development for a Subdivision
18. Change in Operator
19. Late Notifications
20. Failure to Notify
21. Maintenance
22. Releases in Excess of Reportable Quantities
23. Attainment of Water Quality Standards
24. Requiring an Individual Permit

SECTION A: DEFINITIONS WITH INCLUDED COMMENTARY

1. **"Arkansas Pollution Control and Ecology Commission"** shall be referred to as APC&EC throughout this permit.

2. **"Automatic Coverage"** is a term used to define the method of coverage for a small construction site.

3. **"Best Management Practices (BMPs)"** schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control construction site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. According to the EPA BMP manual, the use of hay-bales in concentrated flow areas is not recommended as a BMP.

4. **"Cognizant Official" is** a duly authorized representative, as defined in Part II.B.9.B.

5. **"Commencement of Construction"** is the initial disturbance of soils (or breaking ground) associated with clearing, grading, or excavating activities or other construction-related activities (e.g., stockpiling of fill material; placement of raw materials at the site).

6. **"Contaminated"** is a substance the entry of which into the MS4, waters of the State, or Waters of the United States may cause or contribute to a violation of Arkansas water quality standards.

7. **"Control Measure"** as used in this permit, refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the State.

8. **"Construction Activity"** earth-disturbing activities, such as the clearing, grading, and excavation of land, and other construction–related activities (e.g., stockpiling of fill material; placement of raw materials at the site) that could lead to the generation of pollutants.

9. **"Construction Site"** is an area upon which one or more land disturbing construction activities occur that in total will disturb one acre or more of land, including areas that are part of a larger common plan of development or sale that may be less than one acre where multiple separate and distinct land disturbing construction activities may be taking place at different times on different schedules but under one plan such that the total disturbed area is one acre or more.

10. **"Construction Support Activity"** a construction-related activity that specifically supports the construction activity and involves earth disturbance of pollutant-generating activities of its own, and can include, but not limited to, activities associated with concrete or asphalt batch plants, equipment staging yards, materials storage areas, excavated material disposal areas, and burrow areas.

11. **"CWA"** is the Clean Water Act or the Federal Water Pollution Control Act.

12. **"Department"** is referencing the Department of Energy and Environment.

13. **"DEQ"** or **"Division"** is referencing the Division of Environmental Quality. The Division is the governing authority for the National Pollutant Discharge Elimination System program in the state of Arkansas.

14. **"Detention Basin"** is an area where excess stormwater is stored or held temporarily and then slowly drains when water levels in the receiving channel recede. In essence, the water in a detention basin is temporarily detained until additional room becomes available in the receiving channel.

15. **"Director"** is the Director of the Division of Environmental Quality, or a designated representative.

16. **"Discharge"** is when used without qualification means the "discharge of a pollutant".

17. **"Disturbed area"** is the total area of the site where any construction activity is expected to disturb the ground surface. This includes any activity that could increase the rate of erosion, including, but not limited to, clearing, grubbing, grading, excavation, demolition activities, haul roads, and areas used for staging. Also included are stockpiles of topsoil, fill material and any other stockpiles with a potential to create additional runoff.

18. **"Drainageway"** is an open linear depression, whether constructed or natural, that functions for the collection and drainage of surface water.

19. **"Duly Authorized Representative"** is a representative of the Responsible Official meeting the requirements specified in Part II.B.9.B.

20. **"Eligible"** refers to being qualified for authorization to discharge stormwater under this general permit.

21. **"Erosion"** is the process by which the land's surface is worn away by the action of wind, water, ice or gravity.

22. **"ERW"** Extraordinary Resource Water, in accordance with Rule 2.

23. **"ESW"** Ecologically Sensitive Waterbodies, in accordance with Rule 2.

24. **"Facility" or "Activity"** is any NPDES "point source" or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the NPDES program.

25. **"Final Stabilization"**:

A. All soil disturbing activities at the site have been completed and either of the two following criteria are met:

   1) A uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 80% or more of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
   2) Equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

B. When background native vegetation will cover less than 100% of the ground (e.g., arid areas, beaches), the 80% coverage criteria is adjusted as follows: if the native vegetation covers 50% of the ground, 80% of 50% (0.80 x 0.50 = 0.40) would require 40% total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.

C. For individual lots in residential construction, final stabilization means that either:

   1) The homebuilder has completed final stabilization as specified above, or

2) The homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of, final stabilization.

D. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land, staging areas for highway construction, etc.), final stabilization may be accomplished by returning the disturbed land to its pre-construction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to "waters of the State", and areas which are not being returned to their pre-construction agricultural use shall meet the final stabilization criteria in A, B**,** or C above.

26. **"Grading Activities"** as used in this permit are those actions that disturb the surface layer of the ground to change the contouring, surface drainage pattern, or any other slope characteristics of the land without significantly adding or removing on-site rock, soil, and other materials. This can include demolition, excavation, and filling.

27. **"Impaired Water"** is a waterbody listed in the current, approved Arkansas 303(d) list.

28. **"Infrastructure"** refers to streets, drainage, curbs, utilities, etc.

29. **"Landscaping"** is improving the natural beauty of a piece of land (i.e. entrance of subdivision) through plantings or altering the contours of the ground.

30. **"Large Construction Site"** is a construction site in which construction activity including clearing, grading and excavation. Construction activity also includes the disturbance of less than five acres of total land area that is a part of a larger common plan of development or sale if the larger common plan will ultimately disturb five acres or greater. (Please see Part I.B.15 for partial waivers.)

31. **"Larger Common Plan of Development or Sale"** is a contiguous (sharing a boundary or edge; adjacent; touching) area where multiple and distinct construction activities may be taking place at different times on different schedules under one plan. Such a plan might consist of many small projects (e.g. a common plan of development for a residential subdivision might lay out the streets, house lots, and areas for parks, schools and commercial development that the developer plans to build or sell to others for development). All these areas would remain part of the common plan of development or sale. The following items can be used as guidance for deciding what might or might not be considered a "Common Plan of Development or Sale." The ''plan'' in a common plan of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot. The applicant shall still meet the definition of operator in order to be required to get permit coverage, regardless of the acreage that is personally disturbed.

If a smaller project (i.e., less than 1 acre) is part of a larger common plan of development or sale (e.g., you are building a residential home on a ½ acre lot in a 40 acre subdivision or are putting in a fast food restaurant on a ¾ acre pad that is part of a 20 acre retail center), permit coverage is required.

32. **"Losing Stream Segment"** a stream segment which, beginning at the point of existing or proposed discharge and extending two (2) miles downstream, contribute thirty percent (30%) or more of its flow at a 7Q10 flow or one (1) cfs, whichever is greater, through natural processes such as permeable subsoil or cavernous bedrock into an aquifer.

33. **"Natural Buffer"** for purposes of this permit, an area of undisturbed natural cover surrounding waters of the State. Natural cover includes vegetation, exposed rock, or barren ground that exists prior to commencement of construction activities

at the site.

34. **"NOC"** Notice of Coverage.

35. **"NOI"** Notice of Intent to be covered by this permit.

36. **"NOT"** Notice of Termination.

37. **"NSW"** Natural and Scenic Waterways, in accordance with Rule 2.

38. **"Operator"/"Permittee"** for the purpose of this permit and in the context of stormwater associated with construction activity, means any person(s),an individual, association, partnership, corporation, municipality, state or federal agency, associated with a construction project that has financial and operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; additionally, the Division may require any person(s), an individual, association, partnership, corporation, municipality, state or federal agency, associated with a construction project that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions can be named as a co-permittee.

In addition, for purposes of this permit and determining who is an operator, ''owner'' refers to the party that owns the structure being built. Ownership of the land where construction is occurring does not necessarily imply the property owner is an operator (e.g., a landowner whose property is being disturbed by construction of a gas pipeline or a landowner who allows a mining company to remove dirt, shale, clay, sand, gravel, etc. from a portion of his property). Likewise, if the erection of a structure has been contracted for, but possession of the title or lease to the land or structure is not to occur until after construction, the would-be owner may not be considered an operator (e.g., having a house built by a residential homebuilder).

39. **"Outfall"** a point source where stormwater leaves the construction site.

40. **"Owner"** refers to the owner or operator of any "facility or activity" subject to regulation under the NPDES program. In addition, for purposes of this permit and determining who is an operator, ''owner'' refers to the party that owns the structure being built. Ownership of the land where construction is occurring does not necessarily imply the property owner is an operator (e.g., a landowner whose property is being disturbed by construction of a gas pipeline). Likewise, if the erection of a structure has been contracted for, but possession of the title or lease to the land or structure is not to occur until after construction, the would-be owner may not be considered an operator (e.g. having a house built by a residential homebuilder).

41. **"Physically Interconnected"** means that one municipal separate storm sewer system is connected to a second municipal separate storm sewer system in such a way that it allows for direct discharges into the second system.

42. **"Point Source"** is any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

43. **"Qualified Local Program"** is a municipal program for stormwater discharges associated with construction sites that has been formally approved by DEQ.

44. **"Qualified personnel"** a person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact stormwater quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of stormwater discharges from the

construction activity.

45. **"Regulated Small Municipal Separate Storm Sewer System"** are all municipal separate storm sewer systems that are either:

A. Located within the boundaries of an "urbanized area" with a population of 50,000 or more as determined by the latest Decennial Census by the Bureau of Census; or
B. Owned or operated by a municipality other than those described in paragraph A and that serve a jurisdiction with a population of at least 10,000 and a population density of at least 1,000 people per square mile; or
C. Owned or operated by a municipality other than those described in paragraphs A and B and that contributes substantially to the pollutant loadings of a "physically interconnected" municipal separate storm sewer system.

46. **"Responsible Official"** is the authorized representative, as defined in Part II.B.9.A.

47. **"Retention Basin"** a basin that is designed to hold the stormwater from a rain event and allow the water to infiltrate through the bottom of the basin. A retention basin also stores stormwater, but the storage of the stormwater would be on a more permanent basis. In fact, water often remains in a retention basin indefinitely, with the exception of the volume lost to evaporation and the volume absorbed into the soils. This differs greatly from a detention basin, which typically drains after the peak of the storm flow has passed, sometimes while it is still raining.

48. **"Runoff Coefficient"** is the fraction of total rainfall that will appear at the conveyance as runoff.

49. **"Sediment"** is material that settles to the bottom of a liquid.

50. **"Sediment Basin"** is a basin that is designed to maintain a 10 year-24 hour storm event for a minimum of 24-hours in order to allow sediment to settle out of the water.

51. **"Small Construction Site"** is a construction site in which construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one acre and less than five acres. Small construction activity also includes the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one and less than five acres. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility.

52. **"Stormwater"** is stormwater runoff from rainfall, snow melt runoff, and surface runoff and drainage.

53. **"Stormwater Discharge Associated with Construction Activity"** refers to the discharge of runoff from any conveyance which is used for collecting and conveying stormwater and which is directly related to construction activity.

54. **"Stormwater Pollution Prevention Plan (SWPPP or SWP3)"** is a plan that includes site map(s), an identification of construction/contractor, activities that could cause pollutants in the stormwater, and a description of measures or practices to control these pollutants.

55. **"Temporary Sediment Controls"** are controls that are installed to control sediment runoff from the site during construction activity. These could be silt fencing, rock check dams, etc.

56. **"Total Maximum Daily Load" or "TMDL"** is the sum of the individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for non-point sources and natural background. If the receiving water has only one point

source discharger, the TMDL is the sum of that point source WLA plus the LAs for any non-point sources of pollution and natural background sources, tributaries, or adjacent segments. TMDLs can be expressed in terms of mass per time, toxicity, or other appropriate measure.

57. "Uncontaminated" means that the water will not exceed the water quality standards as set forth in APC&EC Rule 2; also not containing a harmful quantity of any substance.

58. "Urbanized Area" means the areas of urban population density delineated by the Bureau of the Census for statistical purposes and generally consisting of the land area comprising one or more central place(s) and the adjacent densely settled surrounding area that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile as determined by the latest Decennial Census by the Bureau of Census.

59. "Waters of the State" waters of the State means all streams, lakes, marshes, ponds, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, which are contained within, flow through, or border upon this state or any portion of the state.

SECTION B: COVERAGE UNDER THIS PERMIT

Introduction

This Construction General Permit (CGP) authorizes stormwater discharges from large and small construction activities that result in a total land disturbance of equal to or greater than one acre or less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one acre. This permit also authorizes stormwater discharges from any other construction activity designated by DEQ where DEQ makes that designation based on the potential for contribution to an excursion of a water quality standard or for significant contribution of pollutants to waters of the State. This permit replaces the permit issued in 2016. The goal of this permit is to minimize the discharge of stormwater pollutants from construction activity into waters of the State. The operator shall read and understand the conditions of the permit. A copy of the CGP is available on the DEQ web site at https://www.adeq.state.ar.us/water/permits/npdes/stormwater/. A hard copy may be obtained by contacting the DEQ's General Permits Section at (501) 682-0623.

1. Permitted Area. If a large or small construction activity is located within the State of Arkansas, the operator may be eligible to obtain coverage under this permit.

2. Eligibility. Permit eligibility is limited to discharges from "large" and "small" construction activity, or as otherwise designated by DEQ. This general permit contains eligibility restrictions, as well as permit conditions and requirements. Operators shall meet the requirements of Part I.B.6.A or Part I.B.6.B to be eligible for coverage under this permit. In such cases, operators shall continue to satisfy those eligibility provisions to maintain permit authorization. If operators do not meet the requirements that are a pre-condition to eligibility, then resulting discharges constitute unpermitted discharges. By contrast, if operators are eligible for coverage under this permit and do not comply with the requirements of the general permit, they may be in violation of the general permit for otherwise eligible discharges.

A. This general permit authorizes discharges from construction activities as defined in 40 C.F.R. §122.26(a), 40 C.F.R. §122.26(b)(14)(x), 40 C.F.R. §122.26(b)(15)(i)-(ii) and 40 C.F.R. §450.

B. This permit also authorizes stormwater discharges from support activities (e.g., concrete or asphalt batch plants, concrete truck washout, fueling, equipment staging yards, materials storage areas, excavated material disposal areas, stockpiles of top soil, borrow areas) provided:

1) The support activity is directly related to a specific construction site that is required to have NPDES permit coverage for discharges of stormwater associated with the construction activity;
2) The support activity is not a commercial operation, nor does it serve multiple unrelated construction projects; and does not continue to operate beyond the completion of the construction activity at the project it supports;
3) Pollutant discharges from support activity areas are minimized in compliance with conditions of this permit; and
4) Discharges from the support activity areas shall be identified in a Stormwater Pollution Prevention Plan (SWPPP) stating appropriate controls and measures for the areas off the construction site.

C. Other activities may be considered for this permit at the discretion of the Director as defined in 40 C.F.R. §122.26(b)(15)(ii).

3. **Responsibilities of the Operator.** Permittees with operational control are responsible for compliance with all applicable terms and conditions of this permit as it relates to their activities on the construction site including construction support activities off site, including protection of endangered species and implementation of BMPs and other controls required by the SWPPP. Receipt of this general permit does not relieve any operator of the responsibility to comply with any other applicable federal, state or local statute, ordinance or regulation.

4. **Where to Submit.** The operator shall submit a complete and signed Notice of Intent (NOI) and SWPPP to DEQ through ePortal, unless the operator receives a waiver from DEQ, which can be found on the following website:

   https://eportal.adeq.state.ar.us/

   A. The operator shall submit the application fee to DEQ through ePortal (when available), submit an email requesting an invoice to be created to pay online, or mail in invoice from ePortal with a check (listing the invoice number on the check) to the follow address:

      Division of Environmental Quality
      ATTN: Fiscal
      5301 Northshore Drive
      North Little Rock, AR 72118-5317

   NOTE: Notice of Coverage (NOC) will **NOT** be issued until payment has been received by DEQ.

   B. Waivers from electronic reporting may be granted based on one of the following conditions:

      1) If the operational headquarters is physically located in a geographic area (i.e. Zip code or census tract) that is identified as under-served for broadcast internet access in the most recent report from the Federal Communications Commission;
      2) If available computer access or computer capability is limited; or
      3) If the operator is a religious community that choose not to use certain modern technologies pursuant to 40 C.F.R. §127.15(c)(1).

   C. In order to apply for a waiver from the electronic reporting, the operator must submit the required information outlined in 40 C.F.R. §127.15(b)(2).

   D. If DEQ grants a waiver approval to use a paper NOI, and operator elects to use it, the operator **must** use the approved form developed by DEQ.

5. **Requirements for Qualifying Local Program (QLP).** DEQ reviews and approves the QLPs to ensure that they meet or supersede both state and federal requirements outlined in this permit and 40 C.F.R. §122.44(s). DEQ will review the QLP at least every 5 years for recertification. If DEQ approves a QLP, then the QLP requirements shall at the minimum meet the DEQ's requirements. This includes all templates and forms. This permit may be modified to add new QLPs or modify existing QLPs at DEQ's discretion. All public notice and other applicable costs incurred by the modification of the permit for the addition or modification of a QLP will be paid by the QLP.

   If a small construction site is within the jurisdiction of a QLP, the operator of the small construction site is authorized to discharge stormwater associated with construction activity under QLP permit requirements only.

   At the time of issuance of this permit, only the City of Hot Springs is meeting the DEQ minimum requirements.

6. Requirements for Coverage.

A. *Small Construction Sites*. An operator of a small construction site will be considered to have automatic coverage under this general permit and may discharge without submitting a NOI, SWPPP or fee if the following conditions are met:

1) A completed Notice of Coverage (NOC) must be posted at the site prior to commencing construction and remain posted until final stabilization is completed;
2) A Stormwater Pollution Prevention Plan must be prepared in accordance with good engineering practice as described in Rule 6.203(B), completed prior to posting the NOC, implemented upon commencement of construction activities, and the latest copy must be maintained at the construction site;
3) All permit conditions set forth in this general permit must be followed; and
4) The operator is responsible for ensuring that the site is in compliance with any changes or updates of this general permit, by either contacting DEQ or reviewing the DEQ website:

https://www.adeq.state.ar.us/water/permits/npdes/stormwater/

B. *Large Construction Sites.* An operator of a large construction site discharging under this general permit shall submit the following items at least ten (10) business days prior to the commencement of construction activities:

1) A complete NOI in accordance with the requirements of Part I.B.7 of this permit.
2) A complete SWPPP in accordance with the requirements of Part II.A of this permit.
3) An initial permit fee shall accompany the NOI under the provisions of APC&EC Rule 9. Subsequent annual fees will be billed by DEQ until the operator has requested a termination of coverage by submitting a Notice of Termination (NOT). Failure to remit the required initial permit fee shall be grounds for the Director to deny coverage under this general permit. Failure to remit the required annual fees shall be grounds for the Director to revoke coverage under this permit.

C. Modification of Permit Coverage to Include Additional Acreage. Any request to increase the total acreage of a construction site shall be accompanied by a $200 permit modification fee and an updated SWPPP. Any request to only increase the disturbed acreage without changing the total acreage shall be accompanied by an updated SWPPP. A $200 permit modification fee is not required with an increase in disturbed acreage. The operator shall submit a complete and signed Additional Acreage Request Form to DEQ through ePortal, which can be found on the following website:

https://eportal.adeq.state.ar.us/

7. Notice of Intent (NOI) Requirements.

A. *NOI Form*. Large construction site operators who intend to seek coverage for a stormwater discharge under this general permit shall submit a complete and accurate DEQ NOI form through the ePortal system (at https://eportal.adeq.state.ar.us/) at least ten (10) business days prior to the date coverage under this permit is desired, unless granted a waiver in accordance with Part I.B.4.D. The NOI form completed **must** be the current version obtained from ePortal.

If the NOI is deemed incomplete, DEQ will notify the applicant with regard to the deficiencies by a letter, email, or phone within ten (10) business days of the receipt of the NOI. If the operator does not receive a notification of deficiencies from DEQ's receipt of the NOI, the NOI is deemed complete. If the applicant does not provide DEQ with the requested deficiencies within the deadline set by DEQ, then DEQ will return the NOI, fee and SWPPP back to the

applicant.

B. *Contents of the NOI*. The NOI form contains, at a minimum, the following information:

1) Operator (Permittee) information (name, mailing address, telephone, and E-mail address)
2) Whether the operator is a federal, state, private, public, corporation, or other entity
3) Invoice mailing information (name, address, and telephone and fax numbers)
4) Project Construction site information (name, county, address, contact person, directions to the site, latitude and longitude for the entrance of the site or the endpoints for linear project (in degrees, minutes, and seconds), estimated construction start date and completion date through site final stabilization, the total project acreage and the acreage to be disturbed by the operator submitting the NOI, type of the project (subdivision, school, etc), whether the project is part of a larger common plan of development or sale.)
5) Discharge information (name of the receiving stream, ultimate receiving stream, name of municipal storm sewer system)
6) List of current permits
7) The Certification statement and signature of a qualified signatory person in accordance with 40 CFR 122.22, as adopted by reference in APC&EC Rule 6
8) The certification of the facility corporation
9) Other information (location of the SWPPP)
10) And the SIC Code.

C. *Notice of Coverage (NOC)*. Unless notified by the Director to the contrary, operators who submit a complete NOI and SWPPP in accordance with the requirements of this permit are authorized to discharge stormwater from the construction sites under the terms and conditions of this permit ten (10) business days after the date the NOI is deemed complete (which may not be the original submission date if revisions or additions were necessary) by DEQ. If the NOC has not been received by the permittee ten (10) business days after the date the NOI is deemed complete by DEQ, the NOI may be posted until the NOC is received. Upon review of the NOI and other available information, the Director may deny coverage under this permit and require submittal of an application for an individual NPDES permit.

8. Posting Notice of Coverage (NOC).

A. *Automatic Coverage Sites*. The NOC for small sites, as defined in Part I.A.51, shall be obtained from the DEQ's Stormwater website:

https://www.adeq.state.ar.us/water/permits/npdes/stormwater/ .

The NOC must be posted at the site prior to commencing construction. In addition, a copy of the latest signed and certified SWPPP must be available at the construction site in accordance with Part II.A.2.B and D prior to commencing construction.

B. *Large Sites: NOC Posting for Large Construction Sites*. The posting for large construction sites shall be obtained from DEQ only after the permittee has submitted the required NOI, permit fee and complete SWPPP to DEQ for the coverage.

C. *Linear Projects*. If the construction project is a linear construction project (e.g., pipeline, highway, etc.), the notice shall be placed in a publicly accessible location near where construction is actively underway and moved as necessary.

Please note, this permit does not provide the public with any right to trespass on a construction site for any reason, including inspection of a site; nor does this permit require that the permittee allow members of the public access to a construction site.

9. Applicable Federal, State or Local Requirements. The operator shall ensure that the stormwater controls implemented at the site are consistent with all applicable federal, state, or local requirements. Additionally, an operator who is operating under approved local erosion and sediment plans, grading plans, local stormwater permits, or stormwater management plans shall submit signed copies of the NOI to the local agency (or authority) upon the local agency's request.

10. Allowable Non-Stormwater Discharges.

A. The following non-stormwater discharges as part of the construction activity may be authorized by this permit through appropriate controls. Non-stormwater discharges shall be addressed in the stormwater pollution prevention plan and measures to minimize or eliminate non-stormwater discharge should be taken if reasonably possible.
   1) Fire-fighting activities;
   2) Fire hydrant flushings;
   3) Water used to wash vehicles and equipment (where detergents, soaps, solvents or other chemicals are not used) or to control dust in accordance with Part II.A.4.J.2;
   4) Potable water sources including uncontaminated waterline flushings;
   5) Uncontaminated landscape irrigation;
   6) Uncontaminated routine external building wash down which does not use detergents, soaps, solvents or other chemicals;
   7) Uncontaminated pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents, soaps. solvents or other chemicals are not used);
   8) Uncontaminated air conditioning compressor condensate (See Part I.B.13.C of this permit);
   9) Uncontaminated springs, excavation dewatering and uncontaminated groundwater (See Part I.B.13.C of this permit);
   10) Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated groundwater (See Part I.B.13.C of this permit).

11. Limitations on Coverage (Exclusions). The following stormwater discharges associated with construction activity are not covered by this permit:

A. *Post Construction Discharge.* Stormwater discharges associated with construction activities that originate from the site, as well as construction support activities located off site, after construction activities have been completed, the site has undergone final stabilization, and the permit has been terminated.

B. *Discharges Mixed with Non-Stormwater.* Stormwater discharges that are mixed with sources of non-stormwater other than those identified in Part I.B.10.

C. *Discharges Covered by another Permit.* Stormwater discharges associated with construction activity that are covered under an individual or an alternative general permit may be authorized by this permit after an existing permit expires, provided the expired permit did not establish numeric effluent limitations for such discharges.

D. *Discharges into Receiving Waters with an Approved TMDL.* Discharges from a site into receiving waters for which there is an established total maximum daily load (TMDL) allocation (https://www.adeq.state.ar.us/water/planning/integrated/tmdl/) are not eligible for coverage under this permit unless the permittee develops and certifies a SWPPP that is consistent with the assumptions and requirements in the EPA approved TMDL. To be eligible for coverage under this general permit, operators shall incorporate into their SWPPP all conditions applicable to their discharges necessary for consistency with the assumptions and requirements of the TMDL within the timeframes established in the TMDL. If a specific numeric allocation has been established that

applies to the project's discharges, the operator shall incorporate that allocation into its SWPPP and implement necessary steps to meet that allocation. If a numeric limit has been assigned to the facility, quarterly monitoring shall be submitted to DEQ demonstrating compliance with the assigned Waste Load Allocation established in the TMDL. Please note that DEQ will be reviewing this information. If it is determined that the project will discharge into a receiving stream with a TMDL, then DEQ may require additional BMPs.

E. *Discharges into Impaired Receiving Waters (303(d) List).* If stormwater discharges from a construction site enters the receiving water listed as impaired under Section 303(d) of the Clean Water Act (https://www.adeq.state.ar.us/water/planning/integrated/), the permittee shall incorporate into the SWPPP the additional BMPs needed to sufficiently protect water quality. Please note that DEQ will be reviewing this information. If it is determined that the project will discharge to an impaired water body, then DEQ may require additional BMPs.

F. *Discharges into an Extraordinary Resource Water (ERW), Natural and Scenic Waterway (NSW), or Ecologically Sensitive Waterbody (ESW).* Discharges from a construction site located within the watershed of any water body or waterway designated as an Outstanding Resource Water as defined in the APC&EC Rule 2.203, including ERWs, NSWs, or ESWs are not eligible for coverage under this permit unless the permittee develops and certifies a SWPPP that includes additional BMPs needed to prevent to the maximum extent possible exposure to precipitation and to stormwater of pollutants that could potentially impact water quality. For the purposes of this permit, the watershed of an Outstanding Resource Water will be identified by the United States Geological Survey's twelve (12) digit Hydrological Unit Code (HUC). Please note that DEQ will be reviewing this information. If the site will discharge to an ERW, NSW, or ESW, then DEQ may determine that additional requirements are necessary.

G. *Discharges into an area of the state which includes potential losing stream and/or sensitive aquatic species native to these areas.* Discharges from a construction site located within the watershed of any potential losing stream and/or sensitive aquatic species native to the area are not eligible for coverage under this permit unless the permittee develops and certifies a SWPPP that includes additional BMPs needed to prevent to the maximum extent possible exposure to precipitation and to stormwater of pollutants that could potentially impact water quality. In accordance with Part I.B.3, it is the responsibility of the permittee to prevent activity which may take or otherwise risk harm to endangered species. Please note that DEQ will be reviewing this information. If the site will discharge to an area of the state which includes potential losing stream and/or sensitive aquatic species native to these areas, then DEQ may determine that additional requirements are necessary.

12. Short Term Activity Authorization (STAA). Any work being conducted in waters of the State will require a STAA from DEQ in accordance with Rule 2.305. An STAA is necessary for any in-stream activity that has the potential to exceed the water quality standards, including, but not limited to: gravel removal, bridge or crossing repair/maintenance, bank stabilization, debris removal, culvert replacement, flood control projects, and stream relocation. Any work being conducted in Waters of the United States may require a Section 404 permit from the U.S. Army Corps of Engineers. This permit does not authorize any activity under an STAA, Individual 401 Certification, or Section 404 permit. The necessary forms to apply for coverage under an STAA or Individual 401 Certification can be found on the following website:

https://www.adeq.state.ar.us/water/planning/instream/

The SWPPP shall be updated to include a copy of the STAA letter (and Individual 401 Certification if needed) upon receipt. Re-submittal of the SWPPP is not required unless specifically requested by DEQ.

13. Effluent Limitation Guidelines (ELG). All permittees shall comply with the following effluent limits:

A. *Erosion and Sediment Controls.* Design, install, and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls shall be designed, installed and maintained to:

1) Control stormwater volume and velocity to minimize soil erosion in order to minimize pollutant discharges;
2) Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
3) Minimize the amount of soil exposed during construction activity;
4) Minimize the disturbance of steep slopes;
5) Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls shall address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
6) Provide and maintain natural buffers around waters of the State, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
7) Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted; and
8) Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.

B. *Soil Stabilization.* Stabilization of disturbed areas must, at a minimum, be initiated immediately (unless weather conditions do not allow immediate initiation) whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding fourteen (14) calendar days. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permitting authority. Stabilization must be completed within fourteen (14) calendar days. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed.

C. *Dewatering.* Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls. There shall be no turbid discharges to waters of the State resulting from dewatering activities. If trench or ground waters contain sediment, it shall pass through a sediment settling pond or other equally effective sediment control device, prior to being discharged from the construction site. Alternatively, sediment may be removed by settling in place or by dewatering into a sump pit, filter bag, or comparable practice. Ground water dewatering which does not contain sediment or other pollutants is not required to be treated prior to discharge. However, care shall be taken when discharging ground water to ensure that it does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.

D. *Pollution Prevention Measures.* Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures shall be designed, installed, implemented and maintained to:

1) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters shall be treated in a sediment basin or BMP control that provides equivalent or better treatment prior to discharge;
2) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
3) Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

E. *Prohibited discharges.* The following discharges are prohibited:

1) Wastewater from washout of concrete, unless managed by an appropriate control;
2) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
3) Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
4) Soaps, solvents, or detergents used in vehicle, equipment washing, or external building washdown.
5) Toxic or hazardous substances from a spill or release.

F. *Surface Outlets.* When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.

14. Natural Buffer Zones. A natural buffer zone as stated below shall be maintained at all times and direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible. Exceptions from this requirement for areas such as water crossings, limited water access, and restoration of the buffer are allowed if the permittee fully documents in the SWPPP the circumstances and reasons for the buffer zone encroachment. Additionally, this requirement is not intended to interfere with any other ordinance, rule or regulation, statute or other provision of law.

A. For construction projects where construction activities or construction support activities occur, the SWPPP shall provide at least twenty-five (25) feet of natural buffer zone, as measured horizontally from the top of the bank to the disturbed area, from any waters of the State.

B. DEQ will require at least fifty (50) feet of natural buffer zone, as measured horizontally from the top of the bank to the disturbed area, from established TMDL water bodies, streams listed on the 303(d) list, an Extraordinary Resource Water (ERW), Ecologically Sensitive Waterbody (ESW), Natural and Scenic Waterway (NSW), or any other uses at the discretion of the Director.

C. Linear projects will be evaluated individually by DEQ to determine natural buffer zone setbacks.

15. Waivers from Permit Coverage. The Director may waive the otherwise applicable requirements of this general permit for stormwater discharges from construction activities under the terms and conditions described in this section.

A. *Waiver Applicability and Coverage*. Based upon 40 C.F.R. §122.26.b.15.i.A, operators of small construction activities may apply for and receive a waiver from the requirements to obtain this permit.

B. *No Stormwater Leaving the Site.* If all of the stormwater from the construction activity is captured on-site under any size storm event and allowed to evaporate, soak into the ground on-site, or is used for irrigation, a permit is not needed.

C. *TMDL Waivers.* This waiver is available for sites with automatic coverage if the DEQ has established or approved a TMDL that addresses the pollutant(s) of concern and has determined that controls on stormwater discharges from small construction activity are not needed to protect water quality. The pollutant(s) of concern include sediment (such as total suspended solids, turbidity or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. The operator must certify to the Director that construction activity will take place, and storm water discharges will occur within the drainage area addressed by the TMDL or equivalent analysis. Information on approved TMDLs is available on DEQ's website:

https://www.adeq.state.ar.us/water/planning/integrated/tmdl/.

16. Notice of Termination (NOT). When all construction activities that disturbed soil are complete, the site has reached final stabilization (100% stabilization with 80% density or greater, or as defined in Part I.A.25.B for sites where background native vegetation will cover less than 100% of the ground), all stormwater discharges from construction activities authorized by this permit are eliminated and all temporary sediment controls are removed and properly disposed, the operator of the facility may submit a complete Notice of Termination (NOT) to the Director. Along with the NOT, pictures that represent the entire site shall be submitted for review. Final stabilization is not required if the land is returned to its pre-construction agriculture use. Operators of small construction sites are not required to submit NOTs for their construction sites. However, final stabilization is required on all sites. If a NOT is not submitted when the project is completed, the operator will be responsible for annual fees.

17. Responsibilities of the Operator of a Larger Common Plan of Development or Sale.

A. The operator is ultimately responsible for the runoff from the perimeter of the entire development. Regardless of the reason for the runoff, the operator is responsible for ensuring sufficient overall controls of the development.

B. The operator shall not terminate the permit coverage until the following conditions have been met:

1) After all construction activities including landscaping and lot development has been completed; and
2) All lots are sold and developed.

The following exceptions to this requirement may apply:

a. Less than 100% sold and developed at the discretion of the Director, or
b. Separation of the larger common plan if twenty-four (24) months have passed with no construction activity, or
c. All lots are developed and there are no temporary common controls for subdivision outfalls, i.e. sediment basins, large sediment traps, check dams, etc.

3) If lots are sold and then re-sold to a third party, permit coverage shall be obtained by each of the operators while they have ownership of the lots. The second owner is responsible for obtaining the same certification from the third owner (i.e. the certification shall pass from owner to owner).

C. The operator shall not terminate permit coverage until the operators of all of the individual lots within the larger common plan of development or sale are notified of their permitting requirements under this general permit. In this case, the signed certification statements from each operator of individual lots shall be maintained in the stormwater pollution prevention plan for the larger common plan of development or sale. A copy of the signed certifications shall be submitted to DEQ with the NOT. The certification shall be as follows:

"I, _____, operator of an individual lot #_____, block #_____ of _____ subdivision, certify under penalty of law that I was notified by the operator of the larger common plan of the stormwater permitting requirements for my construction site(s). I understand prior to commencement of any construction activity I have to prepare and comply with a SWPPP and post the Construction Site Notice . I understand that prior to the sale of this lot to another party; I must notify the new owner of DEQ requirements and obtain this certification from the new owner."

Signature _____

D. The following examples are provided as clarification:

1) If a small portion of the original common plan of development remains undeveloped and there has been a period of time (i.e., more than 24 months) where there are no ongoing construction activities (i.e., all areas are either undisturbed or have been finally stabilized), operators may re-evaluate the original project based on the acreage remaining from the original "larger common plan of development or sale." If less than five (5) but more than one (1) acre remains to build out the original "common plan", coverage under the large permit may not be required. However, operators will need to comply with the terms and conditions for Small Construction Sites in the Construction General Permit. If less than one acre remains of the original common plan, the individual project may be treated as a part of a less than one acre development and no permit would be required.
2) If operators have a long-range master plan of development or sale where some portions of the master plan are conceptual rather than a specific plan of future development and the future construction activities would, if they occur at all, happen over an extended period of time (i.e., more than 24 months), operators may consider the "conceptual" phases of development to be separate "common plans" provided the periods of construction for the physically interconnected phases will not overlap.
3) Where discrete construction projects within a larger common plan of development or sale are located ¼ mile or more apart and the area between the projects is not being disturbed, each individual project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed. For example, if an interconnecting access road or pipeline were under construction at the same time, they would generally be considered as a part of a single "common plan" for permitting purposes.
4) If the operator sells all the lots in the subdivision to one or more multi-lot homebuilder(s), provisions shall be made to obtain stormwater permit coverage by one of the following options:
   a. The permit may be transferred from the first "operator" to the new/second "operator".
   b. A new, separate permit coverage may be obtained by the second "operator".
   NOTE: If a new permit coverage is to be obtained, then it shall be obtained before the first/original permit is terminated.
5) If the operator retains ownership of any lots in the subdivision, the operator shall maintain permit coverage for those lots under the original permit coverage. The operator shall modify the SWPPP by stating which lots are owned and marking the lots on the site map. If there are one (1) or two (2) lots remaining and the total acreage is less than five (5) acres, the original permit coverage could be terminated and those lots could be covered as a small site.

18. <u>Change in Operator</u>. For stormwater discharges from large construction sites where the operator changes, including instances where an operator is added after the initial NOI has been submitted, the new operator shall ensure that a permit transfer form is received by DEQ at least two (2) weeks prior to the new operator beginning work at the site.

19. <u>Late Notifications</u>. A discharger is not precluded from submitting an NOI in accordance with the requirements of this part after the dates provided in Part I.B.7 of this permit. In such instances, the Director may bring an enforcement action for failure to submit an NOI in a timely manner or for any unauthorized discharges of stormwater associated with construction activity that have occurred on or after the dates specified in this permit.

20. <u>Failure to Notify</u>. The operator of a construction site who fails to notify the Director of their intent to be covered under this permit, and who potentially discharges pollutants (sediment, debris, etc.) to waters of the State without an NPDES permit, is in violation of the Arkansas Water and Air Pollution Control Act.

21. <u>Maintenance</u>. Determination of the acreage of disturbance does not typically include disturbance for routine maintenance activities on existing roads where the original line and grade, hydraulic capacity, or original purpose of the road is not being altered, nor does it include the paving of existing roads. Maintenance activities (returning to original conditions) are not

regulated under this permit unless one or more acres of underlying or surrounding soil are cleared, graded, or excavated as part of the operation.

22. Releases in Excess of Reportable Quantities.

A. The discharge of hazardous substances or oil in the stormwater discharge(s) from a facility shall be prevented or minimized in accordance with the applicable stormwater pollution prevention plan for the facility. This permit does not relieve the operator of the reporting requirements of 40 C.F.R. §110, §117 and §302. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reporting quantity established under either 40 C.F.R. §110, 40 C.F.R. §117, or 40 C.F.R. §302, occurs during a twenty-four (24) hour period, the following action shall be taken:

1) Any person in charge of the facility is required to notify the National Response Center (NRC) (800-424-8802) in accordance with the requirements of 40 C.F.R. §110, 40 C.F.R. §117, or 40 C.F.R. §302 as soon as he/she has knowledge of the discharge;
2) The operator shall submit within five (5) calendar days of knowledge of the release a written description of the release (including the type and estimate of the amount of material released), the date that such release occurred, and the circumstances leading to the release, and steps to be taken in accordance with Part II.B.17 of this permit to the DEQ.
3) The SWPPP described in Part II.A of this permit shall be modified within fourteen (14) calendar days of knowledge of the release to:

    a. Provide a description of the release and the circumstances leading to the release; and
    b. The date of the release;

4) Additionally, the SWPPP shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan shall be modified where appropriate.

B. *Spills*. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

23. Attainment of Water Quality Standards.

The operator shall select, install, implement, and maintain control measures at the construction site and construction support activities off site that minimize the discharge of pollutants for which a stream is impaired at the discretion of the Director as necessary to protect water quality. In general, except in situations explained below, the stormwater controls developed, implemented, and updated to be considered stringent enough to ensure that discharges do not cause, have the reasonable potential to cause, or contribute to an excursion above any applicable water quality standard.

At any time after authorization, DEQ may determine that the stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, DEQ will require the permittee to:

A. Develop a supplemental BMP action plan describing SWPPP modifications to address adequately the identified water quality concerns and submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or

B. Cease discharges of pollutants from construction activity and submit an individual permit application.

All written responses required under this part shall include a signed certification consistent with Part II.B.9.

24. Requiring an Individual Permit

The Director may require any person eligible for coverage under the general permit to apply for and obtain an individual permit. In addition, any interested person(s) may submit an application for an individual permit. The Director may consider the issuance of individual permits according to the criteria in 40 C.F.R. §122.28(b)(3).

Coverage of the facility under this general permit is may be terminated by DEQ if the operator fails to submit or respond to the permitting process or requests for information in a timely manner.

Any operator covered under this general permit may request to be excluded from the coverage of this permit by applying for an APC&EC Rule 6 individual permit. The operator shall submit an application for an individual permit with the reasons supporting the application to DEQ. If a final, individual NPDES permit is issued to an operator otherwise subject to this general permit, the operator is required to submit a NOT. Coverage under this general permit will then be terminated no earlier than the effective date of the individual NPDES permit. Otherwise, the applicability of this general permit to the facility remains in full force and effect.

PART II
STANDARD CONDITIONS

Information in **Part II** is organized as follows:

Section A: Stormwater Pollution Prevention Plans (SWPPP):

1. Deadlines for Plan Preparation and Compliance
2. Signature, SWPPP, Inspection Reports, and Notice of Coverage (NOC)
3. Keeping SWPPP Current
4. Contents of the Stormwater Pollution Prevention Plan
5. Plan Certification

Section B: Standard Permit Conditions:

1. Retention of Records
2. Duty to Comply
3. Penalties for Violations of Permit Conditions
4. Continuance of the General Permit
5. Need to Halt or Reduce Activity Not a Defense
6. Duty to Mitigate
7. Duty to Provide Information
8. Other Information
9. Signatory Requirements
10. Certification
11. Penalties for Falsification of Reports
12. Penalties for Tampering
13. Oil and Hazardous Substance Liability
14. Property Rights
15. Severability
16. Transfers
17. Proper Operation and Maintenance
18. Inspection and Entry
19. Permit Actions
20. Re-Opener Clause
21. Local Requirements
22. Applicable Federal, State Requirements

SECTION A: STORMWATER POLLUTION PREVENTION PLANS (SWPPP)

The operator shall prepare a SWPPP before permit coverage. The SWPPP shall follow the order outlined in Part II.A.4 & 5 below. This basic DEQ format is available through DEQ's website https://www.adeq.state.ar.us/water/permits/npdes/stormwater/. Other formats may be used at the discretion of the Director if the format has been approved by DEQ prior to use. The operator shall implement the SWPPP as written from initial commencement of construction activity until final stabilization is complete, with changes being made as deemed necessary by the permittee, local, state or federal officials. The plan shall be prepared in accordance with good engineering practices, by qualified personnel and shall:

- Identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges from the construction site and construction support activities off site;
- Identify, describe and ensure the implementation of BMPs, with emphasis on initial site stabilization, which are to be used to reduce pollutants in stormwater discharges from the construction site and construction support activities off site;
- Be site specific to what is taking place on a particular construction site;
- Ensure compliance with the terms and conditions of this permit; and
- Identify the responsible party for on-site SWPPP implementation.

1. Deadlines for Plan Preparation and Compliance.

A. *Automatic Coverage Sites.*

The plan shall be completed prior to obtaining permit coverage and commencement of construction activities and updated as appropriate. Submittal of the NOI, permit fee and SWPPP is not required. All conditions set forth in Part II.A must be followed, and the NOC must be posted at the site prior to commencing construction activities. In addition, a copy of the SWPPP must be available at the construction site in accordance with Part II.A.2.B and D prior to commencing construction.

B. *Large Construction Sites.*

The plan shall be completed and submitted for review, along with an NOI and initial permit fee ten (10) business days prior to the commencement of construction activities. Submittals of updates to the plan during the construction process are required in accordance with Part I.B.6.C or if requested by the Director.

C. *Existing Permittees.*

Existing permittees that were permitted prior to the issuance of this renewal permit are required to update their plan as appropriate to come into compliance with the requirements contained in Part II.A.4 by the effective date of this permit.

2. Signature, SWPPP, Inspection Reports and Notice of Coverage (NOC).

A. The SWPPP and inspection reports shall be signed by the operator (or cognizant official) in accordance with Part II.B.9 and be retained at the construction site during normal business hours (8:00 A.M. – 5:00 P.M.). The inspections frequency shall be conducted in accordance with Part II.A.4.N.1.

B. The operator shall make SWPPP and inspection reports available, upon request, to the Director, the EPA, or a State or local agency reviewing sediment and erosion plans, grading plans, or stormwater management plans, or, in the case of a stormwater discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.

C. The Director, or authorized representative, may notify the operator at any time that the plan does not meet one or more of the minimum requirements of this Part. Within seven (7) business days of such notification from the Director (or as otherwise provided by the Director) or authorized representative, the operator shall make the required changes to the plan and submit to the Director a written certification that the requested changes have been made. DEQ may request re-submittal of the SWPPP to confirm that all deficiencies have been adequately addressed. DEQ may also take appropriate enforcement action for the period of time the operator was operating under SWPPP that did not meet the minimum requirements of this permit.

D. The operator shall post the NOC near the main entrance of the construction site and visible to the public. The NOC shall indicate the location of the SWPPP. If the SWPPP location is changed from the initial location, the NOC shall be updated to reflect the correct location of the SWPPP.

3. Keeping SWPPP Current. The operator shall amend the SWPPP within seven (7) business days or whenever there is a change in design, construction, operation, or maintenance at the construction site which has or could have a significant effect on the potential for the discharge of pollutants to the waters of the State that has not been previously addressed in the SWPPP. The SWPPP shall also be modified if a determination has been made through inspections, monitoring (if required), ***or*** investigation by the operator, local, state, or federal officials that the discharges are causing or contributing to water quality violation or the plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in stormwater discharges from the construction site.

4. Contents of the SWPPP. The SWPPP shall include the following items:

A. *Site Description*. SWPPP shall provide a description of the following:

1) A description of the nature of the construction activity and its intended use after the NOI is filed (i.e., residential subdivision, shopping mall, etc.);
2) A description of the intended sequence of major activities which disturb soils for major portions of the site (e.g. grubbing, excavation, grading, infrastructure installation, etc.);
3) Estimates of the total area of the site including off-site borrow and fill areas and the total area of the site that is expected to be disturbed by excavation, grading or other activities; and
4) An estimate of the runoff coefficient of the site for pre- and post-construction activities and existing data describing the soil or the quality of any discharge from the site.

B. *Responsible Parties*. The SWPPP shall identify (as soon as this information is known) all parties (i.e., General Contractors, Landscapers, Project Designers, and Inspectors) responsible for particular construction activities and services they provide to the operator to comply with the requirements of the SWPPP for the project site and construction support activities off site, and areas over which each party has control. If these parties change over the life of the permit, or new parties are added, the SWPPP shall be updated to reflect these changes.

C. *Receiving Waters*. The SWPPP shall include a clear description of the nearest receiving water(s), or if the discharge is to a MS4, the name of the operator of the municipal system, and the ultimate receiving water(s).

D. *Documentation of Permit Eligibility Related to the 303(d) list and Total Maximum Daily Loads (TMDL)*. The SWPPP shall include information on whether or not the stormwater discharges from the site enter a waterbody that is on the most recent 303(d) list or with an approved TMDL. If the stormwater discharge does enter a waterbody that is on the most recent 303(d) list or with an approved TMDL, then the SWPPP shall address the following items:

1) Identification of the pollutants that the 303(d) list or TMDL addresses, specifically whether the 303(d) list or TMDL addresses sediment or a parameter that addresses sediment (such as total suspended solids, turbidity, or siltation);
2) Identification of whether the operator's discharge is identified, either specifically or generally, on the 303(d) list or

any associated assumptions and allocations identified in the TMDL for the discharge; and

3) Measures taken by the operator to ensure that its discharge of pollutants from the site is consistent with the assumptions and allocations of the TMDL.

If DEQ determines during the review process that the proposed project will be discharging to a receiving water that is on the most recent 303(d) list or with an approved TMDL, then DEQ may notify the applicant to include additional Best Management Practices in the SWPPP.

E. *Documentation of Permit Eligibility Related to Discharges into an ERW, NSW, or ESW*. The SWPPP shall include information whether or not the construction site located within a watershed of an ERW, ESW, or NSW. If the construction site is located within a watershed of an ERW, ESW, or NSW, then the SWPPP should consider using additional BMPs for these areas. The practices shall be considered during the progression of site activities and updates to the construction site SWPPP for continued protection of underground water resources.

F. *Documentation of Permit Eligibility related to potential losing stream and/or sensitive aquatic species native to these areas.* The SWPPP shall include information whether or not the construction site located within a watershed of a potential losing stream, and/or sensitive aquatic species native to these areas. If the construction site is located within a watershed of a potential losing stream and/or sensitive aquatic species native to these areas, then the SWPPP shall consider using BMPs for losing stream areas. The practices should be considered during the progression of site activities and updates to the facility SWPPP for continued protection of underground water resources.

G. *Attainment of Water Quality Standards After Authorization*.

1) The permittee shall select, install, implement, and maintain BMPs at the construction site and at the construction support activities off site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained below, the SWPPP shall be developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause, have the reasonable potential to cause, or contribute to an excursion above any applicable water quality standard.

2) At any time after authorization, DEQ may determine that the stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, DEQ will require the permittee to:

   a. Develop a supplemental BMP action plan describing SWPPP modifications to adequately address the identified water quality concerns and submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or

   b. Cease discharges of pollutants from construction activity and submit an individual permit application.

3) All written responses required under this part shall include a signed certification (Part II.B.9).

H. *Site Map*. The SWPPP shall contain a legible site map (or multiple maps, if necessary) complete to scale, showing the entire site, that identifies, at a minimum, the following:

1) Pre-construction topographic view;
2) Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
3) Delineate on the site map areas of soil disturbance and areas that will not be disturbed with regards to the construction activities and construction support activities off site under the coverage of this permit;
4) Location of major structural and nonstructural controls identified in the plan;
5) Location of main construction entrance and exit;

6) Location where stabilization practices are expected to occur;
7) Locations of all construction support activities off-site (i.e. materials, waste, borrow area, or equipment storage areas);
8) Location of areas used for concrete wash-out;
9) Location of all waters of the State with associated natural buffer boundary lines. Identify floodplain and floodway boundaries, if available;
10) Locations where stormwater is discharged to waters of the State or a municipal separate storm sewer system if applicable,
11) Locations where stormwater is discharged off-site (shall be continuously updated);
12) Areas where final stabilization has been accomplished and no further construction phase permit requirements apply;
13) A legend that clearly specifies any erosion and sediment control measure symbols/labels used in the site map and/or detail sheet; and
14) Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

I. *Stormwater Controls*. Each plan shall include a description of appropriate controls and measures that will be installed and implemented at the construction site. The plan shall clearly describe each construction activity identified in the project description control measures associated with the construction activity and the schedule during the construction process that the measures will be implemented. Perimeter controls for the site shall be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary controls shall be removed and properly disposed of after final stabilization. The description and implementation of controls shall address the following minimum components:

1) Initial Site Stabilization, Erosion, and Sediment Controls and Best Management Practices. Design, install, implement, and maintain effective erosion and sediment controls to minimize the discharge of pollutants. At a minimum the following controls and BMPs shall be designed, installed, implemented, and maintained. Therefore, the SWPPP shall address, at a minimum, the following:

   a. For larger common plans of development or sale, only streets, drainage, utility areas, areas needed for initial construction of streets (e.g., borrow pits, parking areas, etc.) and areas needed for stormwater structures may be disturbed initially. Upon stabilization of the initial areas, additional areas may be disturbed.
   b. The construction-phase erosion (such as site stabilization) and sediment controls (such as check dams) shall be designed to retain sediment on-site to the extent practicable.
   c. All control measures shall be properly selected, installed, and maintained in accordance with the manufacturer's specifications, good engineering, and construction practices. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the permittee shall replace or modify the control for site situations.
   d. If sediment escapes the construction site, off site accumulations of sediment shall be removed before the next business day to minimize off-site impacts (e.g., to prevent fugitive sediment in a street could be washed into storm sewers by the next rain or pose a safety hazard to users of public streets). This permit does not give the authority to trespass onto other property; therefore this condition should be carried out along with the permission of neighboring land owners to remove sediment.
   e. Sediment shall be removed from sediment traps (if used, please specify what type) or sedimentation ponds when design capacity has been reduced by 50%.
   f. Litter, construction debris, and construction chemicals exposed to precipitation and to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls picked up daily).
   g. Construction support activities off site (i.e. material storage areas, overburden and stockpiles of dirt, borrow areas, etc.) used solely by the permitted project are considered a part of the project and shall be addressed in the SWPPP.

2) Stabilization practices. The SWPPP shall include, at a minimum, the following information:

a. Description and Schedule: A description of initial, interim, and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans shall ensure that existing vegetation is preserved where attainable and that disturbed areas are stabilized. Stabilization practices may include, but not limited to: mulching, temporary seeding, permanent seeding, geotextiles, sod stabilization, natural buffer strips, protection of trees, and preservation of mature vegetation and other appropriate measures.

b. Description of natural buffer areas: DEQ requires that a natural buffer zone be established between the top of stream bank and the disturbed area. The SWPPP shall contain a description of how the site will maintain natural buffer zones. For construction projects where clearing and grading activities will occur, SWPPP shall provide at least twenty-five (25) feet of natural buffer zone from any named or unnamed streams, creeks, rivers, lakes or other water bodies. The plan shall also provide at least fifty (50) feet of natural buffer zone from established TMDL waterbodies, waterbodies listed on the 303(d) list, an ERW, ESW, NSW, or other uses at the discretion of the Director. If the site will be disturbed within the recommended buffer zone, then the buffer zone area shall be stabilized as soon as possible. Exceptions from this requirement for areas such as water crossings, limited water access, and restoration of the buffer are allowed if the permittee fully documents in the SWPPP the circumstances and reasons for the buffer zone encroachment. Additionally, this requirement is not intended to interfere with any other ordinance, rule or regulation, statute or other provision of law. Please note that above-grade clearing that does not disturb the soil in the buffer zone area does not have to comply with buffer zone requirements.

c. Records of Stabilization: A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the plan.

d. Deadlines for Stabilization After Construction Activity Temporarily Ceases: Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily ceased, but in no case more than fourteen (14) calendar days after the construction activity in that portion of the site has temporarily ceased, except:

(1) Where the initiation of stabilization measures by the fourteenth (14^{th}) calendar day after construction activity temporarily ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

(2) In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures shall be employed as specified by the permitting authority.

e. Deadline for Stabilization After Construction Activity Permanently Ceases: Stabilization measures shall be initiated immediately in portions of the site where construction activities have permanently ceased, except:

(1) Where the initiation of stabilization measures immediately after construction activity permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

(2) In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures shall be employed as specified by the permitting authority.

3) Structural Practices. A description of structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. Structural practices should be placed on upland soils to the degree attainable. The installation of these devices may

be subject to Section 404 of the Clean Water Act. Such practices may include but are not limited to:

- silt fences (installed and maintained);
- earthen dikes to prevent run-on;
- drainage swales to prevent run-on;
- check dams;
- subsurface drains;
- pipe slope drains;
- storm drain inlet protection;
- rock outlet protection;
- sediment traps;
- reinforced soil retaining systems;
- gabions;
- temporary or permanent sediment basins.

A combination of erosion and sediment control measures is encouraged to achieve maximum pollutant removal. Adequate spillway cross-sectional area and re-enforcement shall be provided for check dams, sediment traps, and sediment basins.

a. Sediment Basins:

(1) For common drainage locations that serve an area with ten (10) or more acres (including run-on from other areas) draining to a common point, a temporary or permanent sediment basin that provides storage based on either the smaller of 3600 cubic feet per acre, or a size based on the runoff volume of a 10 year, 24 hour storm, shall be provided where attainable (so as not to adversely impact water quality) until final stabilization of the site. In determining whether installing a sediment basin is attainable, the operator may consider factors such as site soils, slope, available area on site, etc. Proper hydraulic design of the outlet is critical to achieving the desired performance of the basin. The outlet should be designed to drain the basin within twenty-four (24) to seventy-two (72) hours. (A rule of thumb is one square foot per acre for a spillway design.) The 24-hour limit is specified to provide adequate settling time; the seventy-two (72) hour limit is specified to mitigate vector control concerns. If a pipe outlet design is chosen for the outfall, then an emergency spillway is required. If "non-attainability" is claimed, then an explanation of non-attainability shall be included in the SWPPP**.** Where a sediment basin is not attainable, smaller sediment basins or sediment traps shall be used. Where a sediment basin is un-attainable, natural buffer strips or other suitable controls which are effective are required for all side slopes and down slope boundaries of the construction area. The plans for removal or final usage of the sediment basin shall be included with the description of the basin in the SWPPP.

(2) For drainage locations serving an area less than ten (10) acres, sediment traps, silt fences, or equivalent sediment controls are required for all side slope and down slope boundaries of the construction area unless a sediment basin providing storage based on either the smaller of 3600 cubic feet per acre, or a size based on the run off volume of a 10 year, 24 hour storm is provided. The outlet should be designed to drain the basin within twenty-four (24) to seventy-two (72) hours. (A rule of thumb is one square foot per acre for a spillway design.) The 24-hour limit is specified to provide adequate settling time; the seventy-two (72) hour limit is specified to mitigate vector control concerns. If a pipe outlet design is chosen for the outfall, then an emergency spillway is required. However, in order to protect the waters of the State, the Director, at their discretion, may require a sediment basin for any drainage areas draining to a common point.

b. Velocity Dissipation Devices:

Velocity dissipation devices shall be placed at discharge locations, within concentrated flow areas serving two

or more acres, and along the length of any outfall channel to provide a non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (i.e., no significant changes in the hydrological regime of the receiving water). Please note that the use of hay-bales is not recommended in areas of concentrated flow.

J. *Other Controls*.

1) No solid materials identified in Part I.B.13.D shall be discharged to waters of the State or offsite.
2) Off-site vehicle tracking of sediments and the generation of dust shall be minimized through the use of a stabilized construction entrance and exit or vehicle tire washing.
3) For lots that are less than one (1) acre in size an alternative method may be used in addition to a stabilized construction entrance. An example of an alternative method could be daily street sweeping. This could allow for the shortening of the construction entrance.
4) The plan shall ensure and demonstrate compliance with applicable State or local waste disposal, temporary and permanent sanitary sewer or septic system regulations.
5) No liquid concrete waste shall be discharged to waters of the State. Appropriate controls to prevent the discharge of concrete washout waters shall be implemented if concrete washout will occur on-site.
6) No contaminants from fuel storage areas, hazardous waste storage and truck wash areas shall be discharged to waters of the State or offsite. Methods for protecting these areas shall be identified and implemented. These areas shall not be located near a waterbody, if there is a water body on or near the project.

K. *Non-stormwater discharges*. Sources of non-stormwater listed in Part I.B.10 of this permit that are combined with stormwater discharges associated with construction activity shall be identified in the plan. This list shall be site specific non-stormwater discharges.

L. *Post-Construction Stormwater Management*. The operator is required to provide a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. Structural measures shall be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 (Corps of Engineers) of the Clean Water Act. This permit only addresses the installation of stormwater management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. However, post-construction stormwater BMPs that discharge pollutants from a point source once construction is completed may need authorization under a separate DEQ NPDES permit. Such practices may include but are not limited to:

- infiltration of runoff onsite;
- flow attenuation by use of open vegetated swales and natural depressions;
- stormwater retention structures;
- stormwater detention structures (including wet ponds);
- sequential systems, which combine several practices.

A goal of at least eighty percent 80 % removal of total suspended solids from these flows which exceed predevelopment levels should be used in designing and installing stormwater management controls (where practicable). Where this goal is not met, the operator shall provide justification for rejecting each practice listed above based on site conditions.

M. *Applicable State or Local Programs*. The SWPPP shall be updated as necessary to reflect any revisions to applicable federal, state, or local requirements that affect the stormwater controls implemented at the site.

N. *Inspections*. Inspections shall be conducted by qualified personnel (provided by the operator). Inspections shall include all areas of the site disturbed by construction activity and construction support activities located off site that are exposed to precipitation and to stormwater. Inspectors shall look for evidence of, or the potential for, pollutants entering

the stormwater conveyance system. All stormwater control measures shall be observed to ensure proper installation, operation, and maintenance. Discharge locations shall be inspected to determine whether all stormwater control measures are effective in preventing significant impacts to waters of the State or offsite, where accessible. Where discharge locations are inaccessible, nearby downstream locations shall be inspected to the extent that such inspections are practicable. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking. Inspections may not be required if the remaining lot(s) within a larger common plan of development or sale disturb less than one acre of land In addition, inspections may not be required on a completed section of a linear project if final stabilization has been completed for that section. Stabilized areas of the project shall be indicated in the SWPPP and site map and show what date they were stabilized. The operator shall ensure that no sediment will leave the lot(s) that are stabilized. These lots shall be identified within the SWPPP and show what date they were stabilized. If the operator is unable to ensure this, then inspections shall continue.

1) Inspection Frequency. Inspections shall be conducted in accordance with one of the following schedules listed below. The schedule **must be specified** in the SWPPP.

   a. At least once every seven (7) calendar days, or
   b. At least once every fourteen (14) calendar days and within twenty-four (24) hours of the end of a storm event of 0.25 inches or greater (a rain gauge must be maintained on-site).

2) Inspection Form. The DEQ inspection form should be used for all inspections. The inspection form shall include all stormwater controls that are being used on site as well as at construction support activities off site. The form is available on DEQ's website www.adeq.state.ar.us. If a different form is used, it shall at a minimum contain the following information:

   a. Inspector name and title;
   b. Date of Inspection;
   c. Amount of rainfall and days since last rain event (only applicable to Part II.A.4.N.1.b);
   d. Approximate beginning and duration of the storm event;
   e. Description of any discharges during inspection;
   f. Locations of discharges of sediment/other pollutants;
   g. Locations of BMPs in need of maintenance or where maintenance was performed;
   h. If the BMPs are in working order and if maintenance is required (including when scheduled and completed);
   i. Locations that are in need of additional controls;
   j. Location and dates when major construction activities begin, occur or cease;
   k. Signature of qualified signatory official, in accordance with Part II.B.9.

   Additional information may be added to the inspection report at the permittee's discretion.

3) Inspection Records. Each report shall be retained as part of the SWPPP for at least three (3) years from the date the site is finally stabilized. Each report shall be signed and have a certification statement in accordance with Parts II.B.9 and 10 of this permit.

4) Winter Conditions. Inspections will not be required at construction sites nor the construction support activities located off site where snow cover exists over the entire site for an extended period, and melting conditions do not exist. If there is any runoff from the site at any time during snow cover, melting conditions are considered to be existent at the site and this inspection waiver does not apply. Regular inspections, as required by this permit, are required at all other times as specified in this permit. If winter conditions prevent compliance with the permit, documentation of the beginning and ending date of winter conditions shall be included in the SWPPP.

5) Adverse Weather Conditions. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make inspections

impractical, such as extended frozen conditions. When adverse weather conditions prevent the inspection of the site, an inspection shall be completed as soon as is safe and feasible. If adverse weather conditions prevent compliance with the permit, documentation of the beginning and ending date of adverse weather conditions shall be included in the SWPPP.

O. *Maintenance*. A description of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition shall be outlined in the plan. Any repairs that are needed based on an inspection shall be completed, when practicable, before the next storm event, but not to exceed a period of three (3) business days of discovery, or as otherwise directed by state or local officials. However, if conditions do not permit large equipment to be used, a longer time frame is allowed if the condition is thoroughly documented on the inspection form. Maintenance for manufactured controls shall be done at a minimum of the manufacturer's specifications. Maintenance for non-manufactured controls, i.e. check dams and sediment traps, shall be done when 50% of treatment capacity remains.

P. *Employee Training*. The permittee/operator is responsible for training personnel, who are responsible for implementing activities identified in the SWPPP, on the components and requirements of the SWPPP and the requirements of the general permit. This includes contractors and subcontractors. Training shall be given by a knowledgeable and qualified trainer. The SWPPP shall identify periodic dates for such training for all personnel and records of training shall be maintained with the SWPPP. Training records that are maintained electronically (i.e. database, etc.) do not need to be maintained with the SWPPP, but shall be accessible upon request. Formal training classes given by Universities or other third-party organizations are not required but recommended for qualified trainers; the permittee is responsible for the content of the training being adequate for personnel to implement the requirements of the permit.

5. Plan Certification. The SWPPP Certification shall be signed by either the operator or the cognizant official identified on the NOI. All documents required by the permit and other information requested by the Director shall be signed by operator or by a duly authorized representative of the operator (Please see Part II.B.10 below for certification).

SECTION B: STANDARD PERMIT CONDITIONS

1. **Retention of Records.**

   A. The operator shall retain records of all Stormwater Pollution Prevention Plans, all inspection reports required by this permit, and records of all data used to complete the NOI to be covered by this permit for a period of at least three (3) years from the date the NOT letter is signed by DEQ. This period may be extended by request of the Director at any time.

   B. The operator shall retain a signed copy of the SWPPP and inspection reports required by this permit at the construction site from the date of project initiation to the date of final stabilization.

2. **Duty to Comply.** The operator shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for: enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application.

3. **Penalties for Violations of Permit Conditions.** The Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.) provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a criminal penalty of not more than twenty five thousand dollars ($25,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars ($10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action. Any person that purposely, knowingly, or recklessly causes pollution of the water of the state in a manner not otherwise permitted by law and thereby places another person in imminent danger of death or serious bodily injury shall be guilty of a felony and shall be subject to imprisonment, a fine not more than two hundred fifty thousand dollars ($250,000), or both such fine and imprisonment.

4. **Continuance of the General Permit.** Permittees wishing to continue coverage under this general permit shall submit a Renewal NOI (see Part I.B.4 for where to submit documentation) up to 180 days prior to the expiration date, but no later than thirty (30) days prior to the expiration date. No additional fee is required to be submitted along with the Renewal NOI.

   An expired general permit continues in force and effect until a new general permit is issued. If this permit is not re-issued or replaced prior to the expiration date, it will be administratively continued in accordance with Ark. Code Ann. § 8-4-203(m) and remain in force and effect. If a permittee was granted permit coverage prior to the expiration date, the permittee will remain covered by the continued permit until the earliest of:

   A. The effective date of the re-issuance or replacement of this permit and a timely submittal of a renewal NOI by the operator; or

   B. The operator's submittal and DEQ approval of a NOT; or

   C. Issuance and effectiveness of an individual permit for the project's discharges and completion of item B of this section (see Part I.B.24); or

   D. A formal permit decision by DEQ to not re-issue this general permit, at which time operators must seek coverage under an alternative permit (see Part I.B.24).

   Small site operators are responsible for ensuring that the site is in compliance with any changes or updates of this general permit by reviewing DEQ's website at:

https://www.adeq.state.ar.us/water/permits/npdes/stormwater/

5. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for an operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

6. **Duty to Mitigate.** The operator shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has reasonable likelihood of adversely affecting human health or the environment.

7. **Duty to Provide Information.** The operator shall furnish to the Director, an authorized representative of the Director, the EPA, a State or local agency reviewing sediment and erosion plans, grading plans, or stormwater management plans, or in the case of a stormwater discharge associated with industrial activity which discharges through a MS4 with an NPDES permit, to the municipal operator of the system, within a reasonable time, any information which is requested to determine compliance with this permit.

8. **Other Information.** When the operator becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Director, he or she shall promptly submit such facts or information.

9. **Signatory Requirements.** All NOIs, reports, or information submitted to the Director shall be signed and certified by the operator.

   A. All NOI shall be signed as follows:

      1) For a corporation: by a responsible corporate officer. For purposes of this section, a responsible corporate officer means:

         a. A president, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

         b. The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

      2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;

      3) For a municipality, State, Federal or other public agency: by either a principal executive or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

         a. The chief executive officer of the agency; or

         b. A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

   B. All reports required by the permit and other information requested by the Director shall be signed by a person described

above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1) The authorization is made in writing by a person described above and submitted to the Director;

2) The authorization specifies either an individual or a person having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or position of equivalent responsibility for environmental matters for the company (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

3) Changes to authorization. If an authorization under this Part is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the above requirements shall be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

10. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Note: For this permit only, “this document” refers to the Stormwater Pollution Prevention Plan, “attachments” refers to the site map and inspection forms, and “system” is referencing the project site.

11. Penalties for Falsification of Reports. The Arkansas Water and Air Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan or other document filed or required to be maintained under this permit shall be subject to civil penalties specified in Part II.B.3 of this permit and/or criminal penalties under the authority of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.).

12. Penalties for Tampering. The Arkansas Water and Air Pollution Control act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year or a fine of not more than twenty five thousand dollars ($25,000) or by both such fine and imprisonment.

13. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the operator from any responsibilities, liabilities, or penalties to which the operator is or may be subject under Section 311 of the Clean Water Act or Section 106 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

14. Property Rights. The issuance of this permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property, any invasion of personal rights, or any infringement of Federal, State, or local laws or regulations.

15. Severability. The provisions of this permit are severable. If any provisions of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provisions to other circumstances and the remainder of this permit shall not be affected thereby.

16. Transfers. This permit is not transferable to any person except after notice to the Director. A transfer form shall be submitted to DEQ as required by this permit.

17. Proper Operation and Maintenance. The operator shall at all times:

A. Properly operate and maintain all systems of treatment and control (and related appurtenances) which are installed or used by the operator to achieve compliance with the conditions of this permit. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by an operator only when the operation is necessary to achieve compliance with the conditions of the permit.
B. Provide an adequate operating staff which is duly qualified to carry out operation, inspection, maintenance, and testing functions required to ensure compliance with the conditions of this permit.

18. Inspection and Entry. The operator shall allow the Director, the EPA, or an authorized representative, or, in the case of a construction site which discharges to a municipal separate storm sewer, an authorized representative of the municipal operator of the separate sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

A. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;
B. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this permit;
C. Inspect at reasonable times any facilities or equipment, including monitoring and control equipment and practices or operations regulated or required by the permit;
D. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA, any substances or parameters at any location on the permitted property.

19. Permit Actions. This permit may be modified, revoked and reissued, or terminated for any cause including, but not limited to, the following;

A. Violation of any terms or conditions of this permit;
B. Obtaining this permit by misrepresentation or failure to fully disclose all relevant facts;
C. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge;
D. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination; or
E. Failure of the operator to comply with the provisions of DEQ Rule 9 (Fee Rule). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 C.F.R. §122.64 and §124.5(d), as adopted by reference in DEQ Rule 6, and the provisions of DEQ Rule 8.

20. Re-Opener Clause.

A. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with industrial activity covered by this permit, the operator of such discharge may be required to obtain an individual permit or an alternative general permit in accordance with Part I.B.24 of this permit, or the permit may be modified to include different limitations and/or requirements.

B. Permit modification or revocation will be conducted in accordance with the provisions of 40 C.F.R. §122.62, §122.63, §122.64 and §124.5, as adopted by reference in DEQ Rule 6.

21. Local Requirements. All dischargers shall comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding any discharges of stormwater to storm drain systems or other water sources under their jurisdiction, including applicable requirements in municipal stormwater management programs developed to

comply with the DEQ permits. Dischargers shall comply with local stormwater management requirements, policies, or guidelines including erosion and sediment control.

22. **Applicable Federal, State, or local Requirements.** Permittees are responsible for compliance with all applicable terms and conditions of this permit. Receipt of this permit does not relieve any operator of the responsibility to comply with any other applicable federal, state or local statute, ordinance policy, or regulation. Nothing in this permit shall be construed to preclude the institution of any legal action or enforcement actions or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable local state, or federal law or regulation.

APPENDIX "P"

ARR150000 SMALL SITE NOC

SITE WITH AUTOMATIC COVERAGE (LESS THAN 5 ACRES) CONSTRUCTION SITE NOTICE

FOR THE
Division of Environmental Quality (DEQ)
Stormwater Program

NPDES GENERAL PERMIT NO. ARR150000

The following information is posted in compliance with **Part I.B.8.a** of the DEQ General Permit Number **ARR150000** for discharges of stormwater runoff from sites with automatic coverage. Additional information regarding the DEQ stormwater program may be found on the internet at:
www.adeq.state.ar.us/water/branch_npdes/stormwater

Permit Number	ARR150000
Contact Name: Phone Number:	_____ _____
Project Description (Name, Location, etc.): Start Date: End Date: Total Acres:	_____ _____ _____ _____
Location of Stormwater Pollution Prevention Plan:	_____

Does this construction activity take place, and does the stormwater discharge occur within the drainage area addressed by a TMDL?

_____YES _____NO

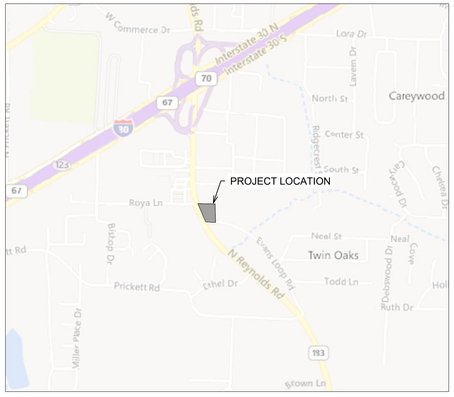
For Construction Sites Authorized under **Part I.B.6.a** (Automatic Coverage) the following certification must be completed:

I _____ (Typed or Printed Name of Person Completing this Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part I.B.2. of the DEQ General Permit Number ARR150000. A stormwater pollution prevention plan has been developed and implemented according to the requirements contained in Part II.A.2.B & D of the permit. I am aware there are significant penalties for providing false information or for conducted unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

_____ _____
Signature and Title Date

SPLASH CARWASH

BRYANT, ARKANSAS
REYNOLDS ROAD
MAY, 2022



VICINITY MAP

SCALE 1" = 1000'

SHEET INDEX	
SH. NO.	SHEET TITLE
00	COVER SHEET
G-1	EXISTING SITE SURVEY
C-1.0	SITE PLAN
C-1.1	UTILITY PLAN
C-1.3	GRADING PLAN
C-1.4	SITE DETAILS
C1.5	WATER & SEWER DETAILS
C-1.6	LANDSCAPE PLAN
C-1.7	STORM WATER POLLUTION PREVENTION PLAN
C-1.8	EROSION CONTROL DETAILS I
C-1.9	EROSION CONTROL DETAILS II

PROPERTY SPECIFICATIONS

OWNER: COLLIERS INTERNATIONAL
ATTN: BRADFORD GAINES
1 ALLIED DRIVE, STE 1500
LITTLE ROCK, AR 72202

DEVELOPER/SUBDIVIDER: COLLIERS INTERNATIONAL
ATTN: BRADFORD GAINES
1 ALLIED DRIVE, STE 1500
LITTLE ROCK, AR 72202
(501)-372-6161

ENGINEERS: PHILLIP LEWIS ENGINEERING, INC.
23620 INTERSTATE-30
BRYANT, ARKANSAS 72022
(501)-350-9840

ZONING CLASSIFICATION: C-2

DEVELOPMENT SPECIFICATIONS

BUILDING = 4,996 SQ. FT. (10.5% OF TOTAL PROPERTY AREA)
PAVING = 22,400 SQ. FT. (47.1% OF TOTAL PROPERTY AREA)
LANDSCAPE = 9,891 SQ. FT. (20.8% OF DEVELOPED AREA)

FLOOD ZONE INFORMATION

FIRM PANEL NO: 05125 C 0380E
EFFECTIVE DATE: 6/05/2020.
THE PROPERTY IS NOT LOCATED WITHIN THE 100 YEAR FLOOD PLAIN NO BASE FLOOD ELEVATION IS DETERMINED FOR ZONE X OR ZONE A

SITE NOTES

1. THE INFORMATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THIS SURVEY IS BASED ON RECORDS OF EXISTING UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS WERE TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
2. BASIS OF BEARINGS: ARKANSAS STATE PLANE, NORTH ZONE .

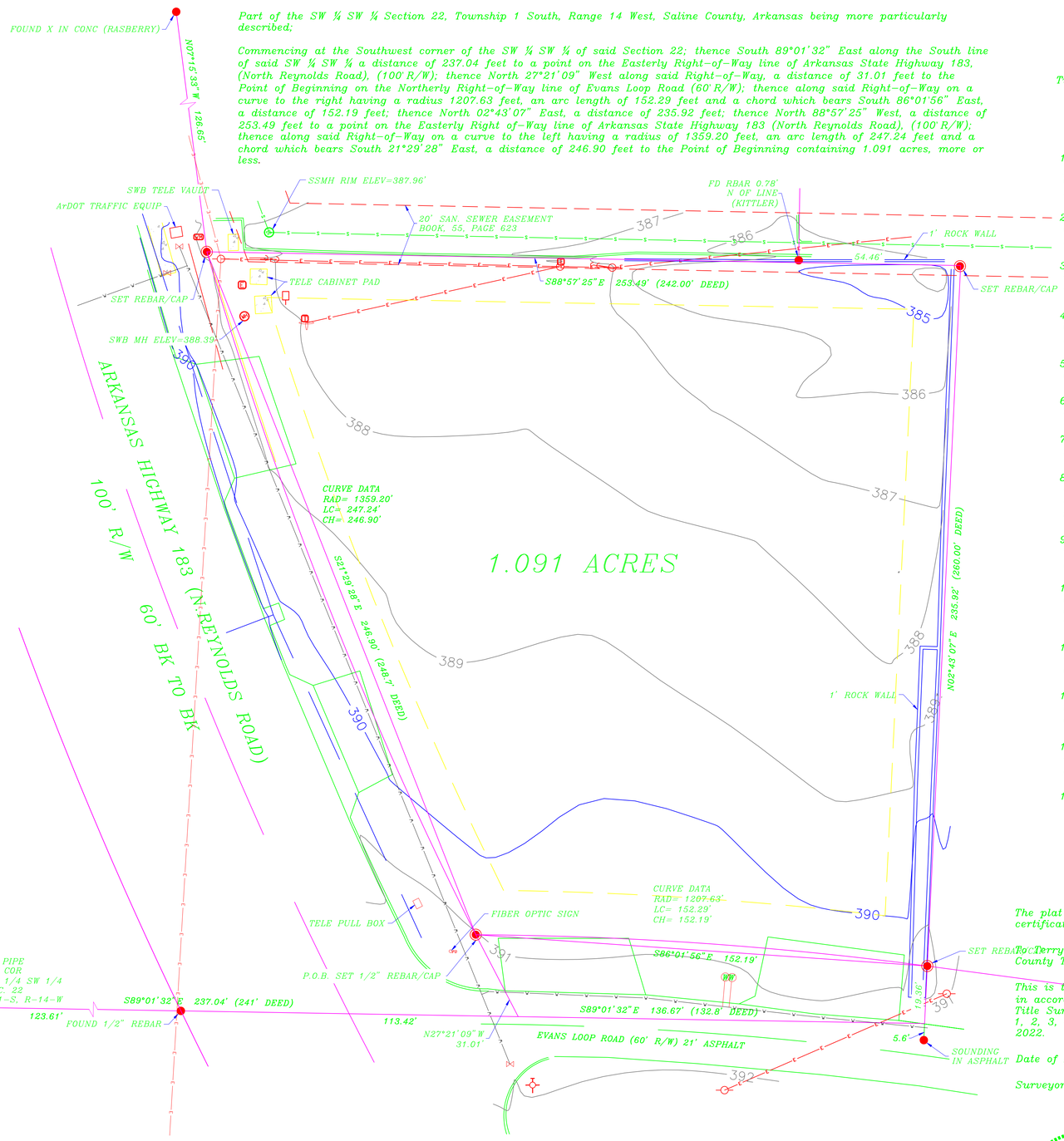
PHILLIP LEWIS ENGINEERING
Structural + Civil Consultants

Know what's **below.**
Call before you dig.

Legal Description

Part of the SW ¼ SW ¼ Section 22, Township 1 South, Range 14 West, Saline County, Arkansas being more particularly described;

Commencing at the Southwest corner of the SW ¼ SW ¼ of said Section 22; thence South 89°01'32" East along the South line of said SW ¼ SW ¼ a distance of 237.04 feet to a point on the Easterly Right-of-Way line of Arkansas State Highway 183, (North Reynolds Road), (100' R/W); thence North 27°21'09" West along said Right-of-Way, a distance of 31.01 feet to the Point of Beginning on the Northerly Right-of-Way line of Evans Loop Road (60' R/W); thence along said Right-of-Way on a curve to the right having a radius 1207.63 feet, an arc length of 152.29 feet and a chord which bears South 86°01'56" East, a distance of 152.19 feet; thence North 02°43'07" East, a distance of 235.92 feet; thence North 88°57'25" West, a distance of 253.49 feet to a point on the Easterly Right of-Way line of Arkansas State Highway 183 (North Reynolds Road), (100'R/W); thence along said Right-of-Way on a curve to the left having a radius of 1359.20 feet, an arc length of 247.24 feet and a chord which bears South 21°29'28" East, a distance of 246.90 feet to the Point of Beginning containing 1.091 acres, more or less.



CHICAGO TITLE INSURANCE COMPANY

COMMITMENT NO.22-0041240

Commitment Date: February 1, 2022 AT 06:00 am

Title to the Fee Simple estate or interest: 021618 FAMILY LAND TRUST, LLC

Schedule B-II

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Record or is crested, attaches or is disclosed between the Commitment Date and the date on which all of Schedule B, Part 1 Requirements are met. NOT SURVEY RELATED.

2. Any discrepancies or conflicts in boundary lines, any shortages in areas or any encroachment or overlapping of improvements. MULTIPLE DISCREPANCIES BETWEEN DEED AND SURVEY.

3. Any facts, rights interests or claims which are not shown by the public record, but which could be ascertained by an accurate survey of the land or by making inquiry of person of possession thereof. 30'R/W ON EVANS LOOP ROAD.

4. Easements, liens or encumbrances or claims thereof, which are not shown by the public record. PART OF A 20' SAN. SEWER EASEMENT ALONG THE NORTH LINE.

5. Any lien or right of lien, for services, labor of material imposed by law and not shown by the public record. NOT SURVEY RELATED.

6. Rights or claims of parties in possession of all or any part of the described premises, not shown by the public record. 30'R/W OF EVANS LOOP ROAD.

7. Rights of tenants in possession and under unrecorded leases. NOT SURVEY RELATER.

8. (a) unpatented mining claims; (b) reservations or exceptions in patents or in acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a). (b), or (c) are shown by the public records. NOT SURVEY RELATER.

9. The lien of all taxes for the year 2022 and thereafter not yet due and payable plus any penalties, costs and interest which may accrue. NOT SURVEY RELATER.

10. Losses arising from any oil, gas, or mineral interest, conveyed, retained, assigned or any activity on or damage to the insured land or caused by the exercise of the sub-surface rights or ownership, including but not limited to the right of ingress and egress for said sub-surface purpose. NOT SURVEY RELATER.

11. The exact quantity of land or number of acres or square feet contained within the property described herein is not insured. Any statement of acreage or quantity of land is shown for identification purposed only. ACREAGE AS SHOWN.

12. The rights of the public and others entitled thereto in and to the use of that portion of subject property comprising any road, street, alley, highway or other public right-of-way. 30'R/W OF EVANS LOOP ROAD.

13. (Note: item number 1 under Schedule B, Part II Exceptions, can't be removed from this commitment but will not be shown on the final policy.) NOT SURVEY RELATER.

14. Final owner's policy to Include ALTA 8.1 and 35 endorsements. NOT SURVEY RELATER.

Certification

The plat or map of an ALTA/NSPS Land Title Survey shall bear only the following certification, unaltered, except as may be required pursuant to Section 3.B. above:

To Terrywood INC., 021618 Family Land Trust, LLC, Chicago Title Company, Pulaski County Title LLC, Colliers Arkansas:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 8, 11, of Table A thereof. The fieldwork was completed on February 19, 2022.

Date of Plat or Map: February 28, 2022.

Surveyor's signature_____ AR No. 1348

CERTIFICATE OF AUTHORIZATION JOHNSTON SURVEYING LLC No. 2542 ARKANSAS SURVEYOR

REGISTERED STATE OF ARKANSAS NO. 1348 PROFESSIONAL LAND SURVEYOR

500-01S-14W-0-22-30-62-1348



VICINITY MAP

LEGEND

- Right of Way Monument
- Control Points
- Set Iron Pin
- Found Monument
- Gas Regulator
- Gas Riser
- Gas Meter
- Clean Out
- Sanitary Sewer Manhole
- Telephone Pedestal
- Electric Meter
- Electric Box
- Power Pole
- Guy Wire Anchor
- Light Pole
- Center Line
- Flag Pole
- Fire Hydrant
- Water Hydrant
- Down Spout
- Water Meter
- Water Valve
- Metal Drainage Grate
- Gate Post
- Ground Light
- Sign
- Junction Box
- Handicap Parking
- Manhole
- Bollard
- Mailbox
- RPZ Valve
- Tree
- Vault
- Air Conditioner
- Flow Direction
- Flared End Section
- T — Telephone Line
- S — Sanitary Sewer Main
- E — Electric Line
- G — Underground Gas
- W — Waterline
- X — Fence
- F — Fiber Optic
- Treeline
- Concrete

Flood Information
This property lies within Zone X according to Federal Flood Insurance Rate Map Community Panel No. 05125C0380E, effective June 5, 2020.

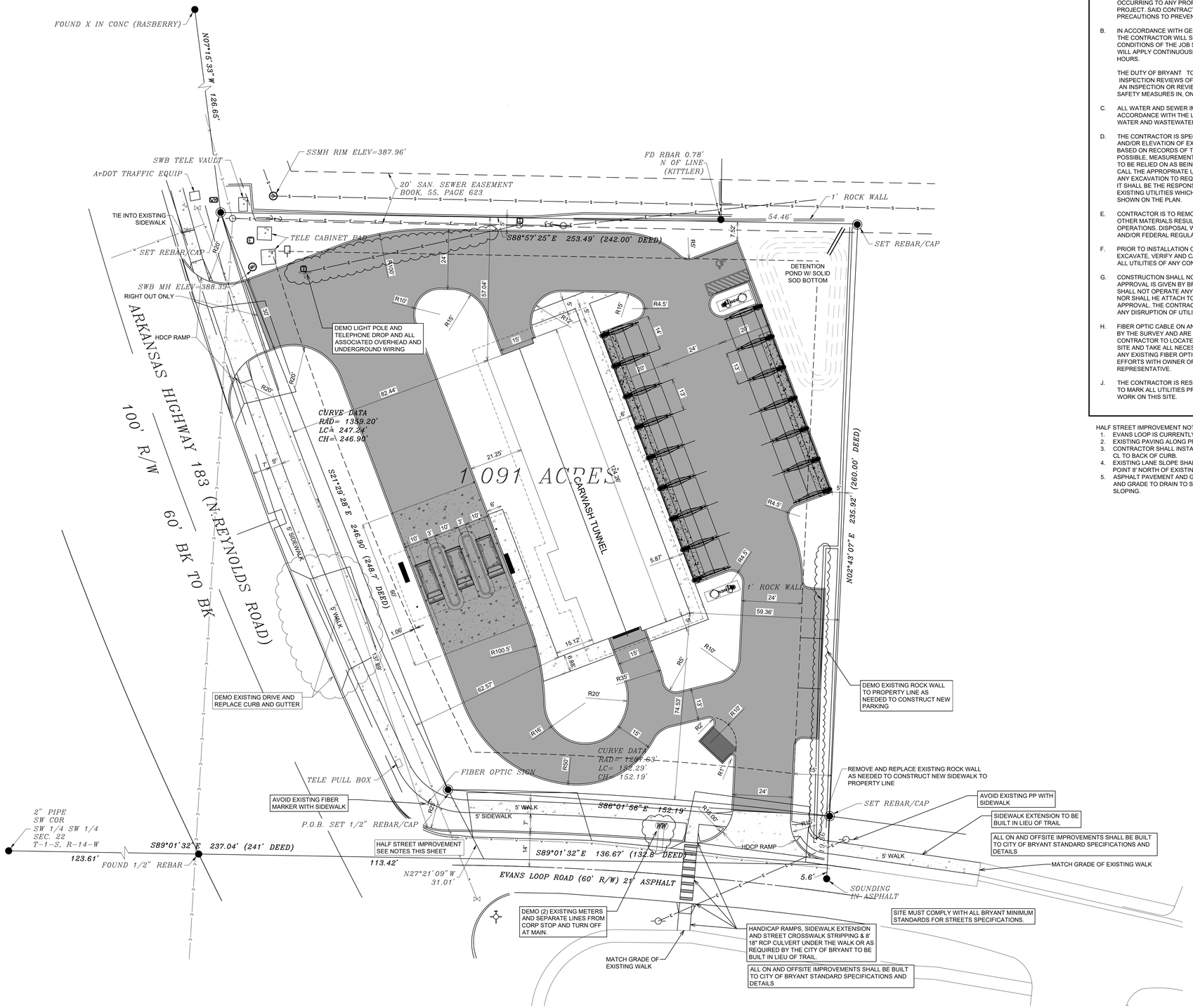
Note:
All utilities shown per visible field evidence, lines marked on the ground, or verbal communication from onsite utilty personnel. Surveyor is not responsible for existing underground utilities that are incorrectly located, omitted from or added to this plat.

JOHNSTON SURVEYING, INC
37027 HWY 300
ROLAND, AR 72135
501-837-5643
MJohnstonsurveying@gmail.com

021618 FAMILY TRUST, LLC
SW 1/4 SW 1/4 SEC 22
T-1-S, R, R-14-W
JOB NO. 696

DATE: 2/28/2022
SCALE: 1:30
DRAWN BY: H. GRAFFENREED
CHECKED BY: M. JOHNSTON
FILE NAME: N Reynolds Road

Z:\Splash Investment Group\Splash Carwash - Bryant\Survey\Documents\N Reynolds Road.dwg



SITE 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.

THE DUTY OF BRYANT TO CONDUCT CONSTRUCTION INSPECTION REVIEWS OF THE CONTRACTOR'S PERFORMANCE IS NOT AN INSPECTION OR REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

G. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY BRYANT WATER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE COST AND CONSEQUENCE OF ANY DISRUPTION OF UTILITY OPERATION CAUSED BY CONSTRUCTION.

H. FIBER OPTIC CABLE ON AND/OR ADJACENT TO THIS SITE WERE NOT LOCATED BY THE SURVEY AND ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY FIBER OPTIC CABLES ASSOCIATED WITH THIS SITE AND TAKE ALL NECESSARY AND REQUIRED PRECAUTIONS TO PROTECT ANY EXISTING FIBER OPTIC CABLES. CONTRACTORS SHALL COORDINATE ALL EFFORTS WITH OWNER OF FIBER OPTIC CABLES OR THEIR DESIGNATED REPRESENTATIVE.

J. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING "ONECALL" SERVICE TO MARK ALL UTILITIES PRIOR TO ANY DEMOLITION, EARTHWORK, OR UTILITY WORK ON THIS SITE.

HALF STREET IMPROVEMENT NOTES:
1. EVANS LOOP IS CURRENTLY IMPROVED TO THE EAST 28' BC-BC WITH 60' R/W.
2. EXISTING PAVING ALONG PROPERTY LINE IS 11' CL TO EDGE OF PAVING.
3. CONTRACTOR SHALL INSTALL CURB AND GUTTER TO THE DIMENSION OF 14' FROM CL TO BACK OF CURB.
4. EXISTING LANE SLOPE SHALL BE TAKEN FROM CL EXISTING ROAD THROUGH A POINT 8' NORTH OF EXISTING CL TO DETERMINE EXISTING CROSS SLOPE TO MATCH.
5. ASPHALT PAVEMENT AND GUTTER SHALL MATCH EXISTING ROAD CROSS SLOPE AND GRADE TO DRAIN TO STORM BOX ON REYNOLDS ROAD AS CURRENTLY SLOPING.

N

0 20'

1" = 20'-0"

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

REVISION:

SPLASH CARWASH

BRYANT, ARKANSAS

STATE OF ARKANSAS
ARKANSAS REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP A. LEWIS

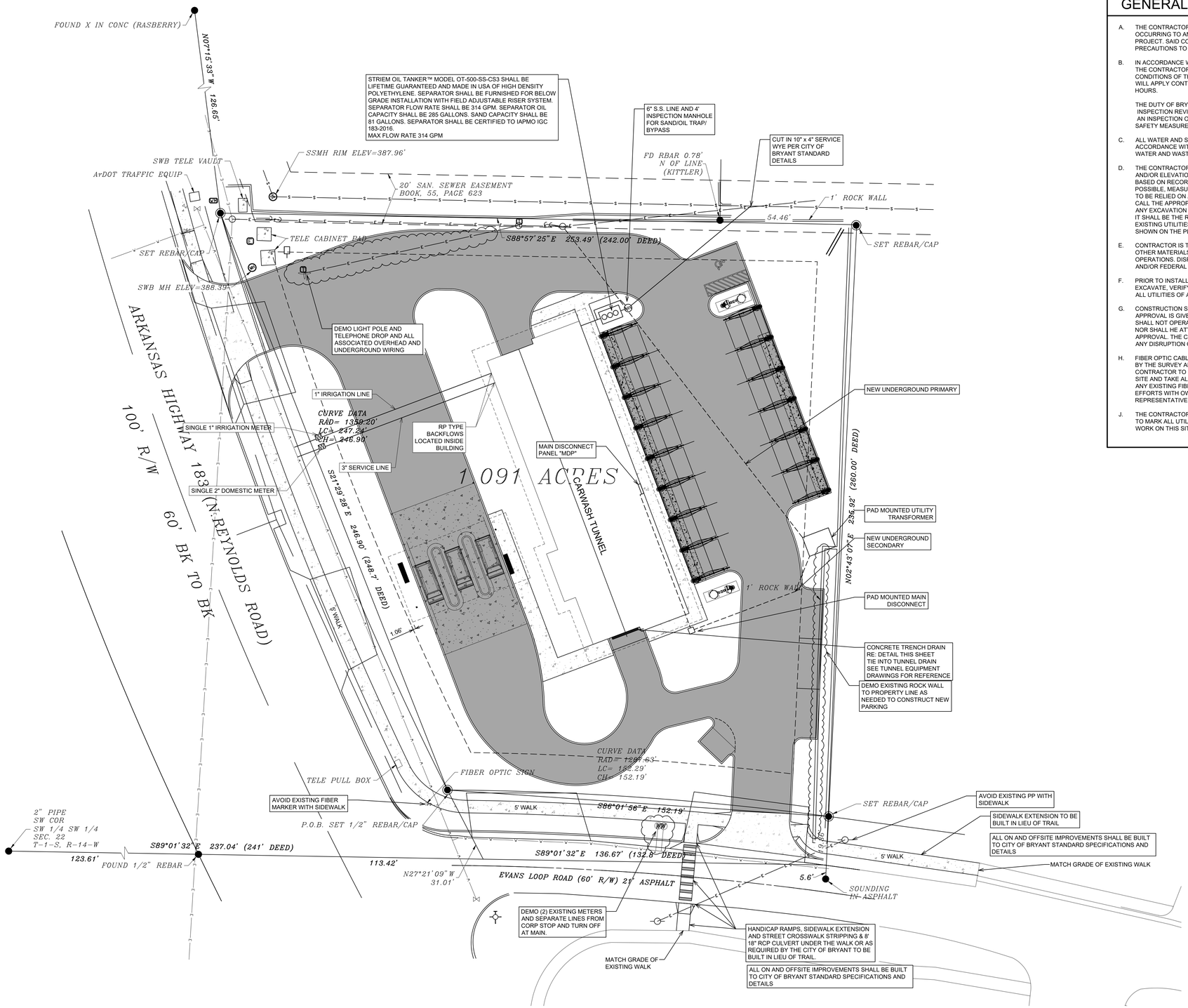
CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

PROJECT NUMBER:

SHEET ISSUE DATE:
5/25/2022

PAGE TITLE:
SITE PLAN

SHEET NUMBER:
C-1.0



UTILITY PLAN

SCALE 1" = 20'

ALL UTILITY WORK SHALL BE PERFORMED ACCORDING TO BRYANT STANDARD UTILITY DETAILS AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

A. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES OCCURRING TO ANY PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT. SAID CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT PROPERTY DAMAGE.

B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.

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C. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE CITY OF BRYANT'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF ALL UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

E. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

F. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR IS TO EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM ANY AND ALL UTILITIES OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

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

REVISION:

SPLASH CARWASH
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS-ENGINEER

STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 9540
PHILLIP LEWIS

PROJECT NUMBER:

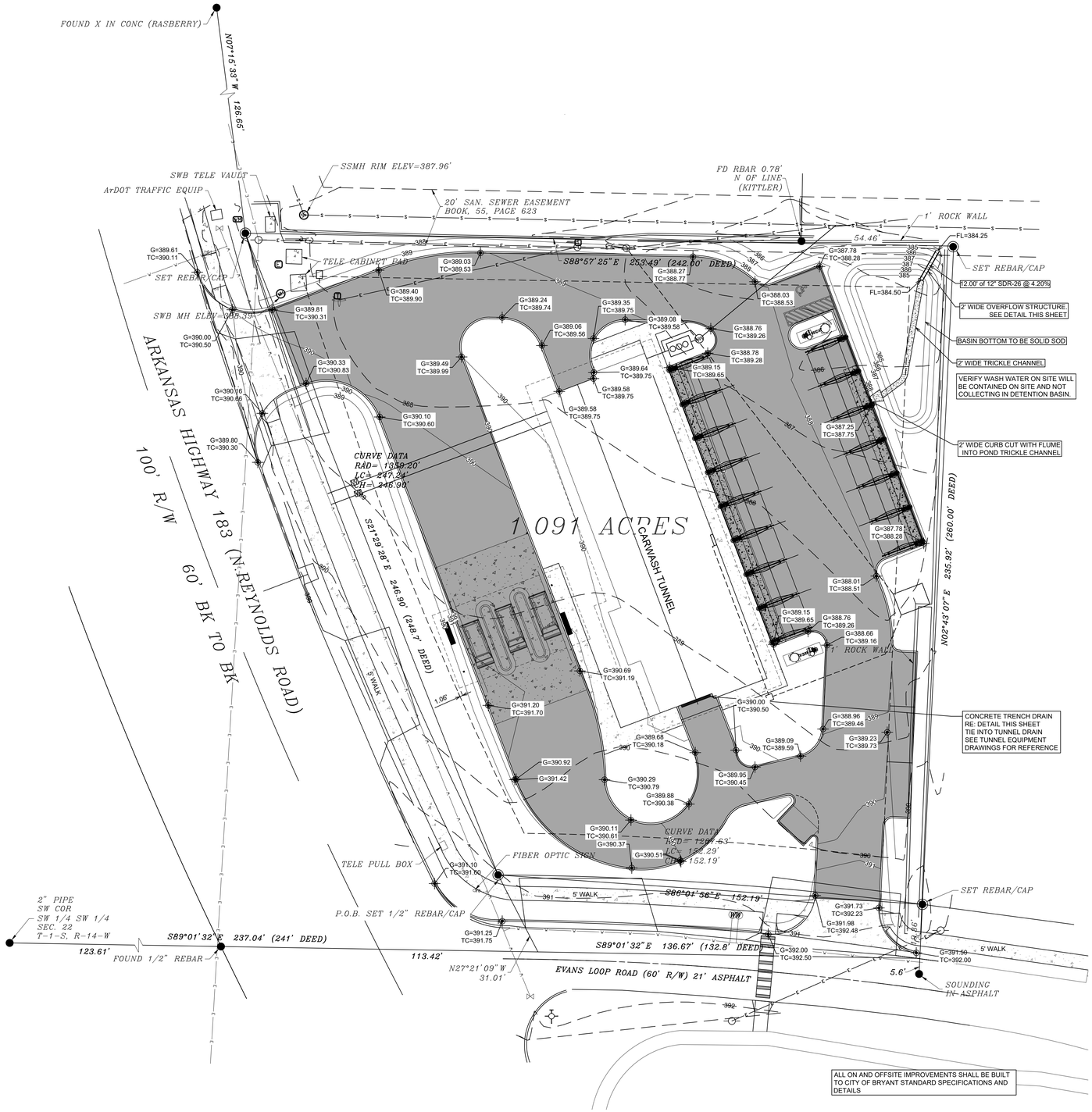
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5/25/2022

PAGE TITLE:
UTILITY PLAN

SHEET NUMBER:
C-1.1

N

0 20'
1" = 20'-0"



SITE GRADING PLAN

SCALE 1" = 20'

G = GUTTER ELEVATION
TC = TOP OF CURB ELEVATION

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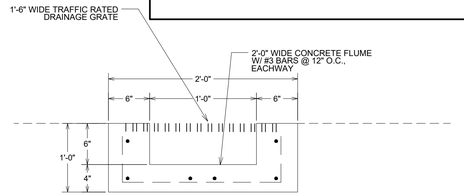
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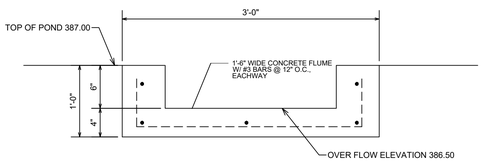
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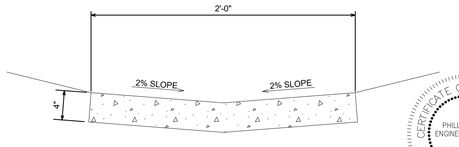
CONCRETE TRENCH DETAIL

NOT TO SCALE



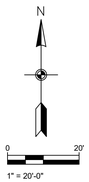
OVERFLOW STRUCTURE DETAIL

NOT TO SCALE



CONCRETE TRICKLE CHANNEL

NOT TO SCALE



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STATE OF ARKANSAS
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No. 9540
PHILLIP A. LEWIS

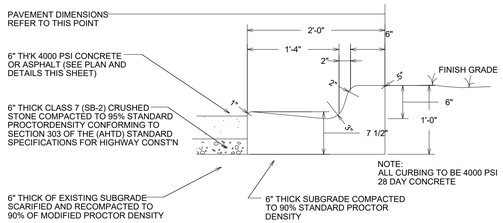
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No. 566
ARKANSAS-ENGINEER

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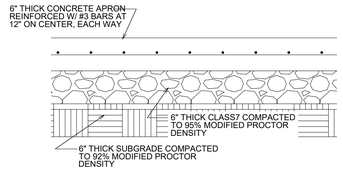
PAGE TITLE:
GRADING PLAN

SHEET NUMBER:
C-1.3



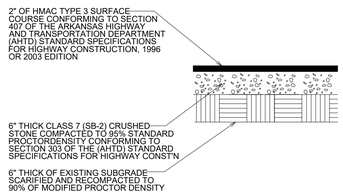
2'-0" CONCRETE CURB & GUTTER

NOT TO SCALE



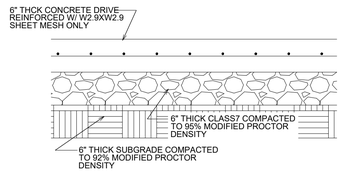
CONCRETE APRON SECTION

NOT TO SCALE



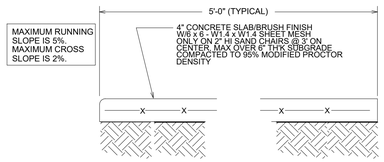
HMAC ASPHALT SURFACE COURSE

NOT TO SCALE



CONCRETE DRIVE SECTION

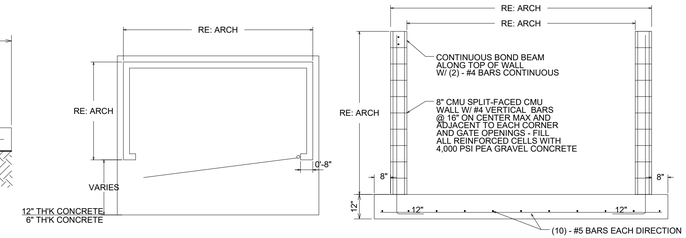
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CONCRETE WALK SECTION

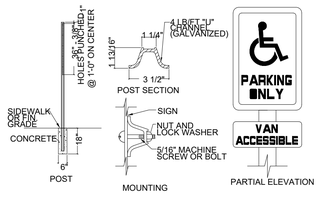
NOT TO SCALE

NOTE:
ALL SIDEWALK JOINTS TO BE STEEL TROWELED. ALL JOINT EDGES AND SHALL BE SPACED AT 5 FEET ON CENTER MAXIMUM IN ALL DIRECTIONS AND SHALLBE STEEL TROWELED ON A RADIUS NOT TO EXCEED ONE-HALF INCH.



DUMPSTER PAD/ENCLOSURE DETAIL

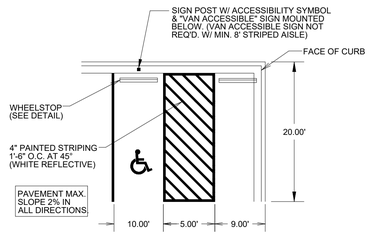
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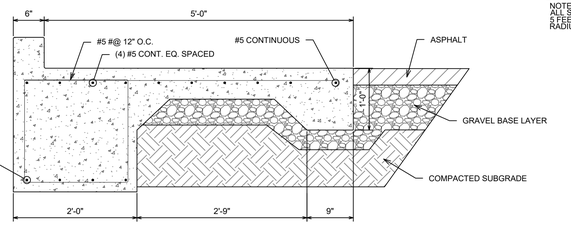
HANDICAP SIGN DETAIL

NOT TO SCALE

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

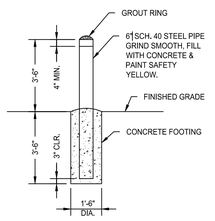


TYPICAL ACCESSIBLE PARKING STALLS



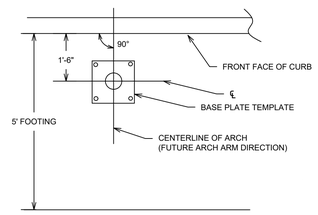
CONCRETE VACCUM FOOTING DETAIL

NOT TO SCALE



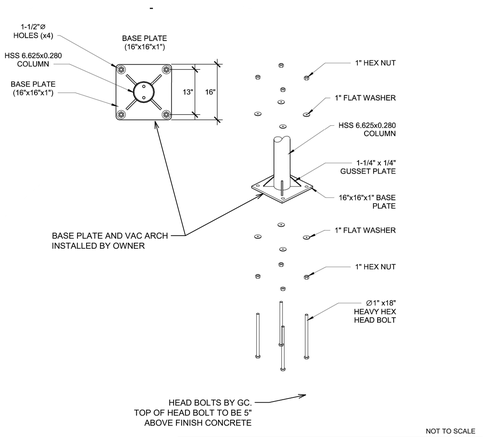
BOLLARD DETAIL

NOT TO SCALE



BASEPLATE TEMPLATE ORIENTATION DETAIL

NOT TO SCALE



NOT TO SCALE

BASEPLATE DETAIL

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23620 Interstate 30 | Bryant, Arkansas
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REVISION:

SPLASH CARWASH

BRYANT, ARKANSAS

STATE OF ARKANSAS
PHILLIP A. LEWIS
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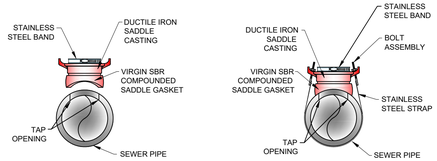
CERTIFICATE OF AUTHORIZATION
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No. 566
ARKANSAS-ENGINEER

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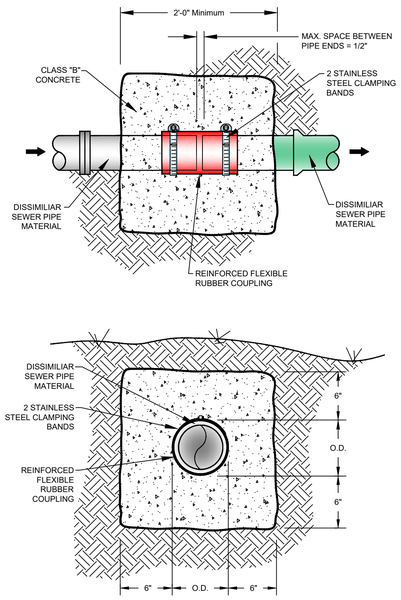
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PAGE TITLE:
SITE DETAILS

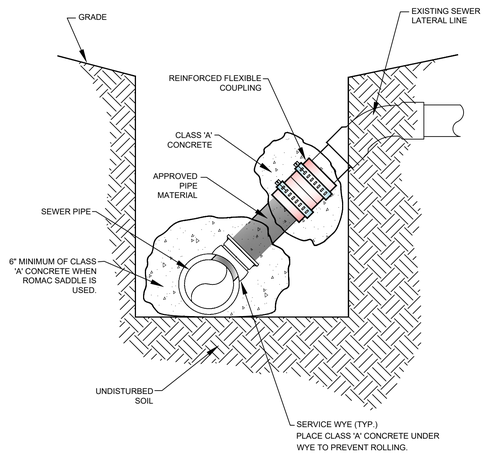
SHEET NUMBER:
C-1.4



SEWER SERVICE SADDLE



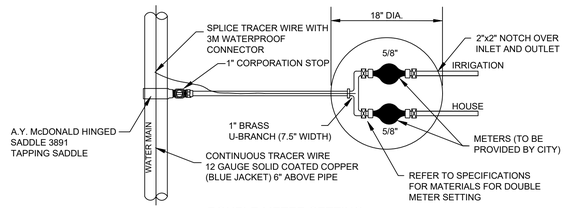
REINFORCE FLEXIBLE COUPLING



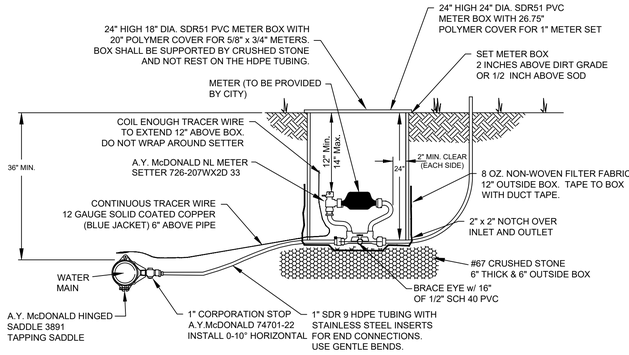
CONNECTION TO EXISTING SERVICE

BOTTOM VIEW

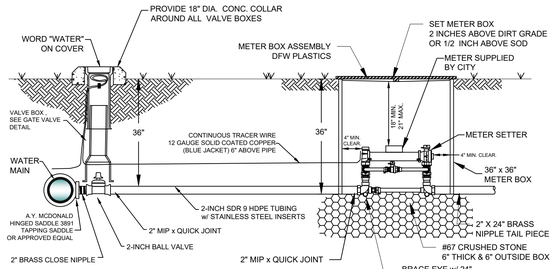
WATER METER LID



DOUBLE METER SETTING
ONLY FOR 1 LOT



SINGLE METER SETTING



2-INCH WATER TAP

2-INCH METER SETTER

NOTES:

1. COORDINATE INSTALLATION AND CONFIGURATIONOF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY.
2. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
3. SUPPORT METER INSTALLATION WITH 1"x24" SCH40 PVC THROUGH EACH BRACE EYE.

2" WATER SERVICE AND WATER METER

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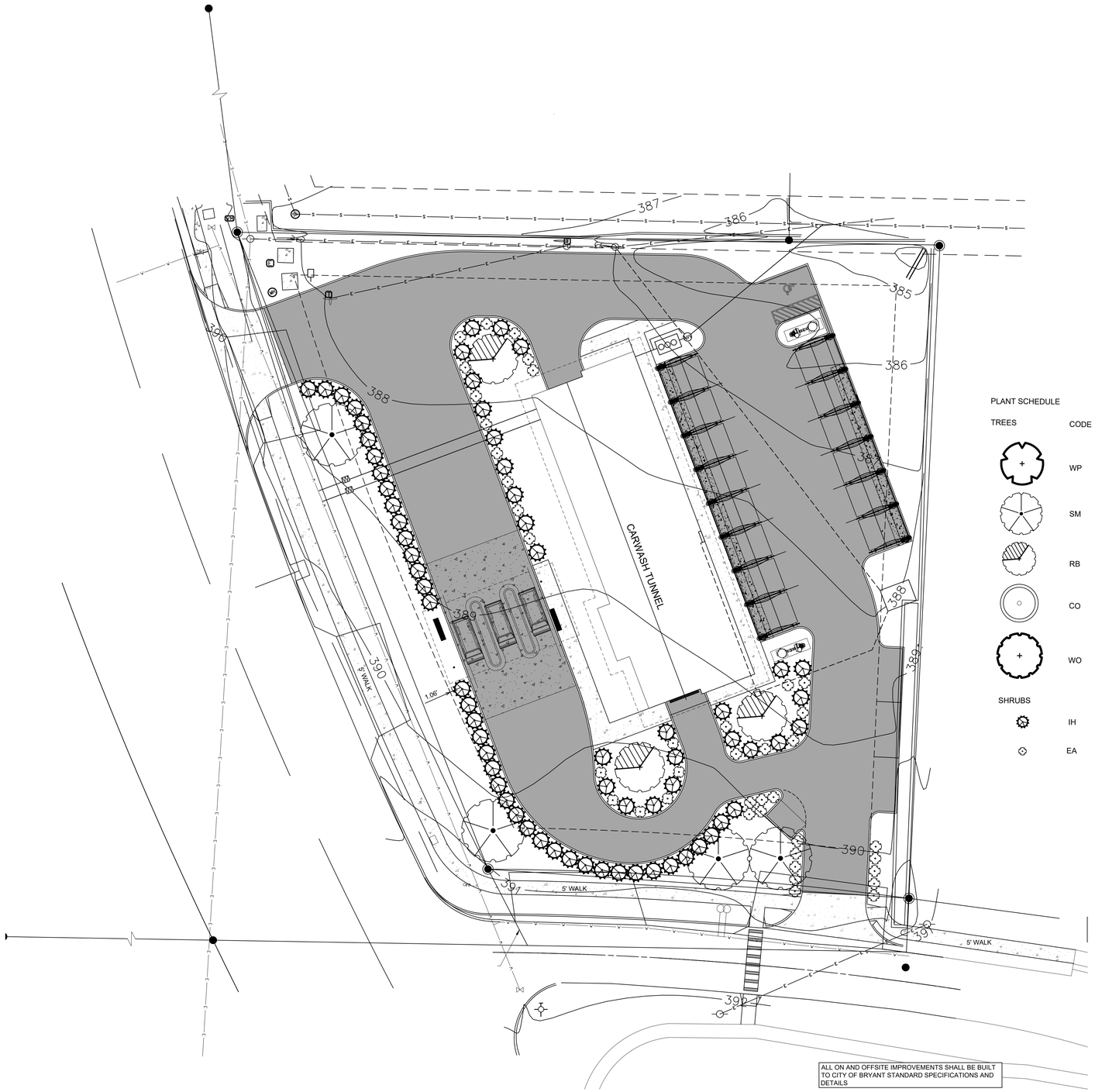
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STATE OF ARKANSAS
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REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP A. LEWIS

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PAGE TITLE:
WATER & SEWER DETAILS

SHEET NUMBER:
C-1.5



PLANT SCHEDULE

TREES	CODE	QTY	COMMON	BOTANICAL NAME	CONT	CAL / SIZE
	WP	0	WHITE PINE'	PINUS ALBA	B&B	2.5" CAL
	SM	5	NORWEGIAN SUNSET MAPLE	ACER 'NORWEGIAN SUNSET'	B&B	2.5" CAL
	RB	3	RIVER BIRCH 'HERITAGE'	BETULA NIGRA 'CULLY'	B&B	2.5" CAL
	CO	0	COLUMNAR OAK ' CRIMSON SPIRE'	QUERCUS ROBUR 'CRIMSCHMIDT'	B&B	2.5" CAL
	WO	0	WILLOW OAK (EXISTING)	QUERCUS PHELLOS 'HIGHTOWER'	N/A	N/A
SHRUBS						
	IH	66	PINK LADY INDIAN HAWTHORN	RHAPHIOLEPIS INDICA 'PINK LADY'	CONT	5 GAL
	EA	40	ENCORE AZALEA AUTUMN CHEER	RHODODENDRON 'CONLEF'	CONT	3 GAL (MIN 18" TALL AT INSTALLATION)

ALL ON AND OFFSITE IMPROVEMENTS SHALL BE BUILT TO CITY OF BRYANT STANDARD SPECIFICATIONS AND DETAILS

LANDSCAPING PLAN

SCALE 1" = 20'

N

0 20'

1" = 20'-0"

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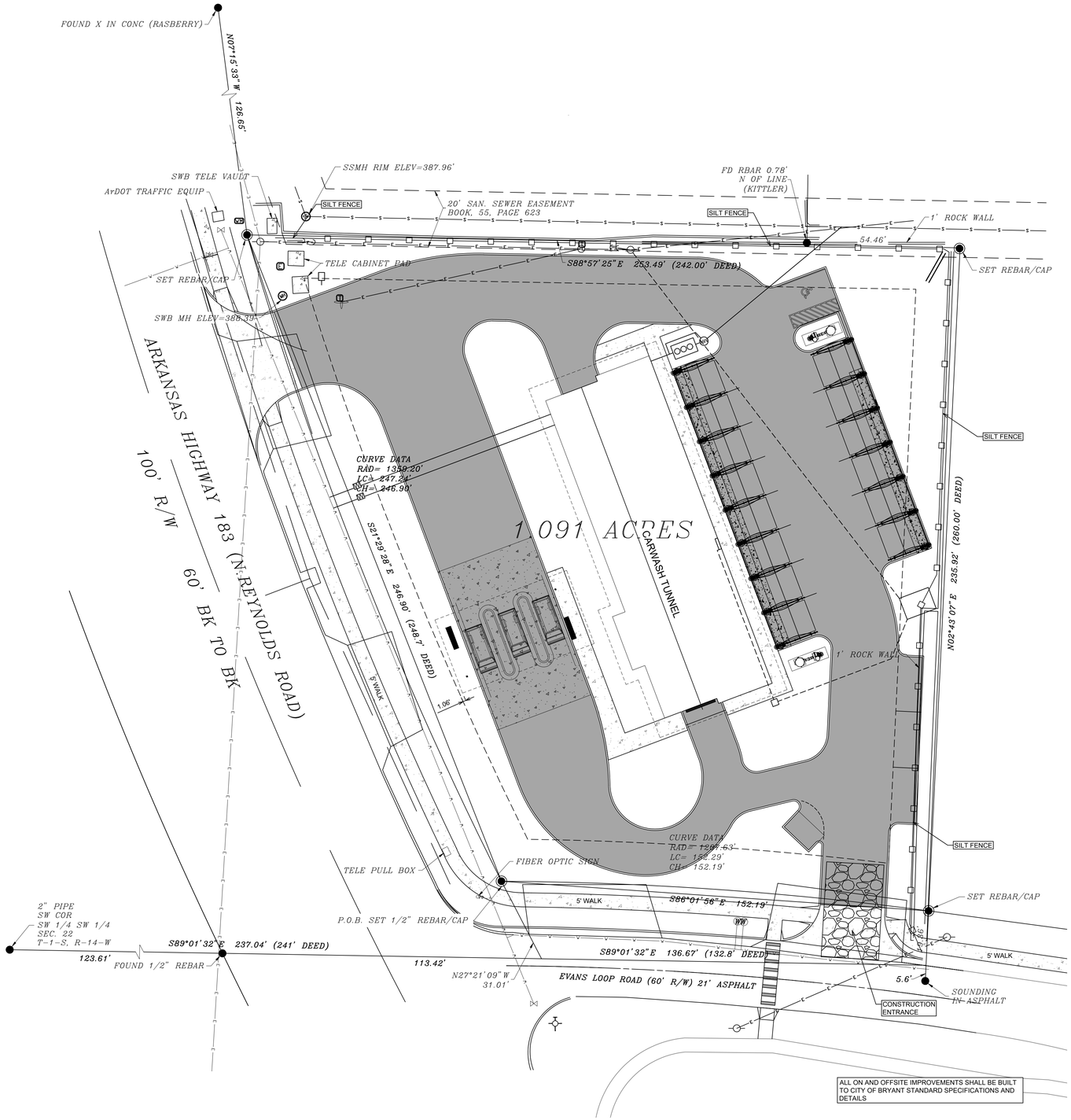
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ARKANSAS ENGINEER

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PAGE TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
C-1.6



STORM WATER PREVENTION PLAN

SCALE 1" = 20'

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SPLASH CARWASH
BRYANT, ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP LEWIS

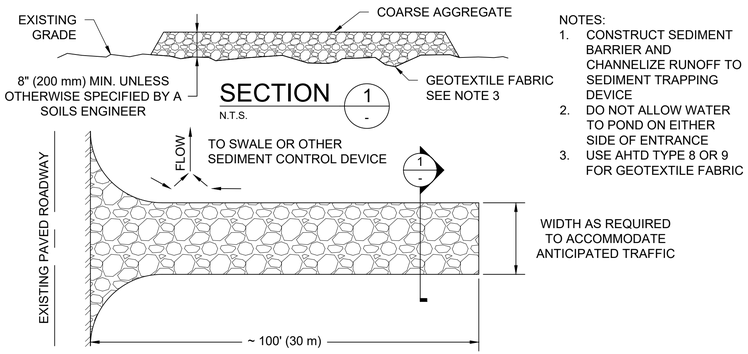
CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS-ENGINEER

PROJECT NUMBER:

SHEET ISSUE DATE:
5/25/2022

PAGE TITLE:
STORM WATER POLLUTION PREVENTION PLAN

SHEET NUMBER:
C-1.7

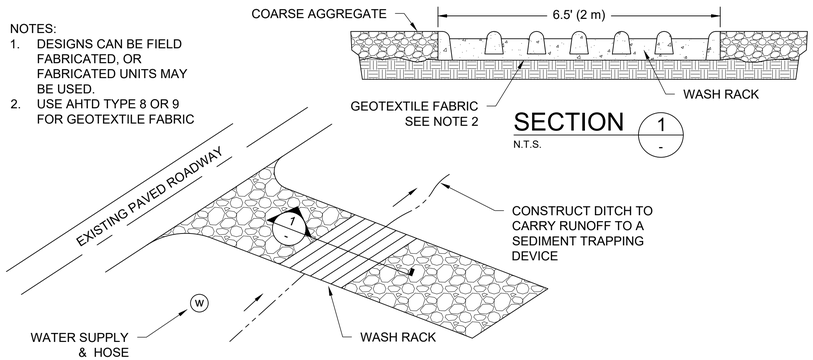


NOTES:
1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE
2. DO NOT ALLOW WATER TO POND ON EITHER SIDE OF ENTRANCE
3. USE AHTD TYPE 8 OR 9 FOR GEOTEXTILE FABRIC

TEMPORARY CONSTRUCTION ENTRANCE

DETAIL A
N.T.S.

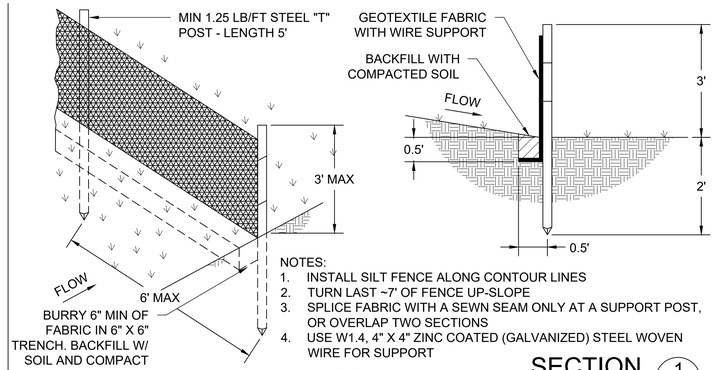
NOTES:
1. DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED.
2. USE AHTD TYPE 8 OR 9 FOR GEOTEXTILE FABRIC



PLAN
N.T.S.

TIRE WASH

DETAIL B
N.T.S.



NOTES:
1. INSTALL SILT FENCE ALONG CONTOUR LINES
2. TURN LAST ~7' OF FENCE UP-SLOPE
3. SPLICE FABRIC WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR OVERLAP TWO SECTIONS
4. USE W1.4, 4" X 4" ZINC COATED (GALVANIZED) STEEL WOVEN WIRE FOR SUPPORT

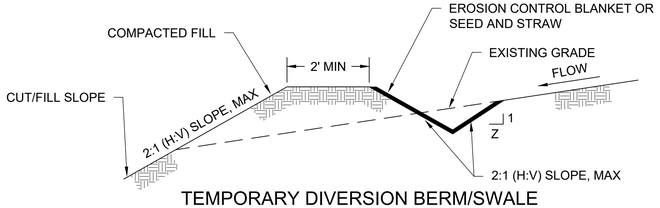
TYPICAL INSTALLATION
N.T.S.

SILT FENCE

DETAIL C
N.T.S.

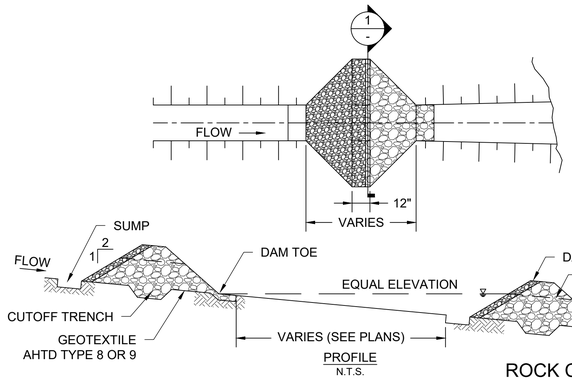
SECTION 1 -
N.T.S.

SWALE DATA					
SWALE	Z:1 (FT/FT)	DEPTH (FT)	SLOPE (%)	VELOCITY (FPS)	Q (CFS)



TEMPORARY DIVERSION BERM/SWALE

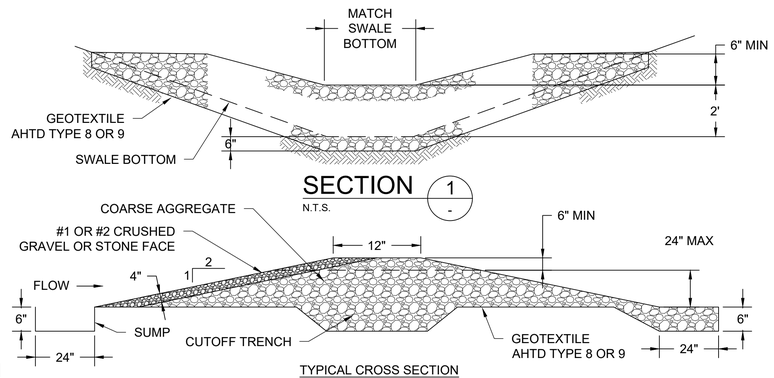
DETAIL D
N.T.S.



PROFILE
N.T.S.

ROCK CHECK DAM

DETAIL E
N.T.S.



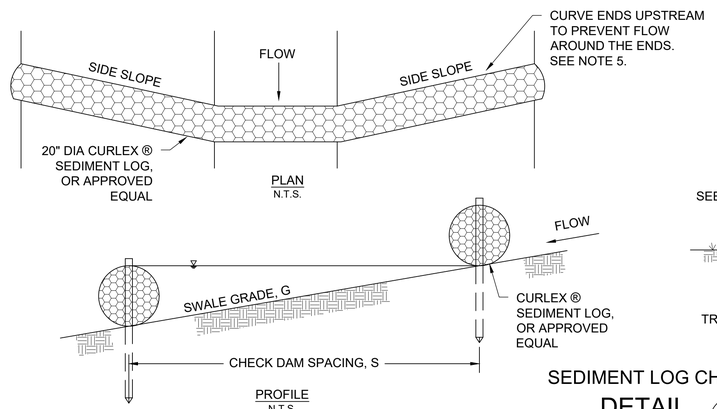
TYPICAL CROSS SECTION
N.T.S.

SPECIES	SEEDING RATE (LB/1,000 FT^2)	PLANTING TIME
RYE OR CEREAL GRASSES	2.3	AUG 15-JAN 20
BROWN TOP MILLET	1.25	JAN 21-AUG 14

NOTES:
1. THE AREA DESIGNATED OR DIRECTED TO BE TEMPORARILY SEEDED DOES NOT HAVE TO BE BROUGHT TO GARDEN-LINE CONDITION, BUT SHALL BE LIGHTLY TILLED.
2. FERTILIZER SHALL BE APPLIED AT THE RATE OF 11.5 LB/1,000 FT^2 OF 10-20-10 OR THE EQUIVALENT AMOUNT OF PLANT FOOD.
3. MULCH COVER SHALL CONSIST OF STRAW FROM THRESHED RICE, OATS, WHEAT, BARLEY, OR RYE; OF WOOD EXCELSIOR, OR OF HAY OBTAINED FROM VARIOUS LEGUMES OR GRASSES SUCH AS LESPEDEZA, CLOVER, VETCH, SOYBEANS, BERMUDA, CARPET SEDGE, BAHIA, FESCUE, OR OTHER LEGUMES OR GRASSES; OR A COMBINATION THEREOF. MULCH SHALL BE DRY AND REASONABLY FREE FROM NOXIOUS WEEDS. MULCH COVER SHALL BE APPLIED AT THE RATE OF 92 LB/1,000 FT^2 IMMEDIATELY AFTER SEEDING AND SHALL BE SPREAD UNIFORMLY OVER THE ENTIRE AREA.
4. FROM APRIL 1 TO DECEMBER 31, EITHER THE DAY BEFORE THE TEMPORARY SEEDING IS PLACED OR ON THE DAY OF THE TEMPORARY SEEDING OPERATION (EITHER BEFORE THE SEED IS PLACED OR AFTER THE APPLICATION OF THE MULCH COVER) , A MINIMUM OF 0.5 M GAL/1,000 FT^2 OF WATER WILL BE APPLIED.

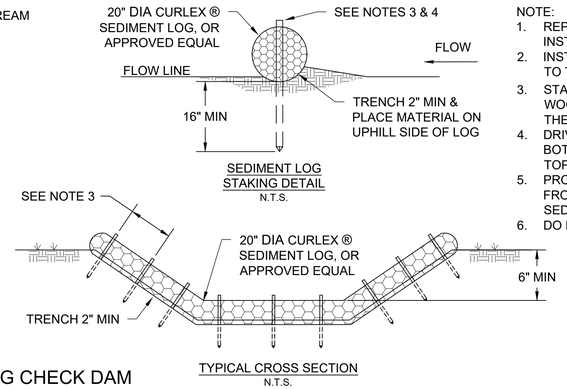
TEMPORARY SEEDING

DETAIL F
N.T.S.



PLAN
N.T.S.

PROFILE
N.T.S.



SEDIMENT LOG STAKING DETAIL
N.T.S.

TYPICAL CROSS SECTION
N.T.S.

SEDIMENT LOG CHECK DAM

DETAIL G
N.T.S.

NOTE:
1. REPAIR ALL RILLS OR GULLIES PRIOR TO INSTALLATION
2. INSTALL CHECK DAMS IN SWALES PERPENDICULAR TO THE FLOWLINE
3. STAKE SEDIMENT LOGS IN PLACE WITH $1\frac{1}{8}$" X $1\frac{1}{8}$" WOODEN STAKES. DRIVE STAKES AT EACH END OF THE SEDIMENT LOG AT 2' (MAX) SPACING.
4. DRIVE STAKES INTO UNDISTURBED SOIL OF SWALE BOTTOM 16" (MIN). EXPOSE STAKES 2" MIN ABOVE TOP OF LOG.
5. PROVIDE SUFFICIENT LENGTH TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE SEDIMENT LOG.
6. DO NOT USE WITH SWALE GRADE > 5%

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

PHILLIP LEWIS ENGINEERING, INC.
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23620 Interstate 30 | Bryant, Arkansas
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STATE OF ARKANSAS
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PHILLIP A. LEWIS

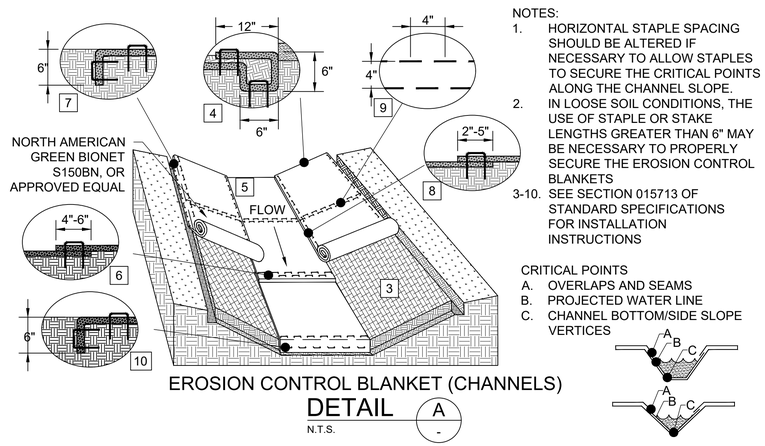
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EROSION CONTROL DETAILS I

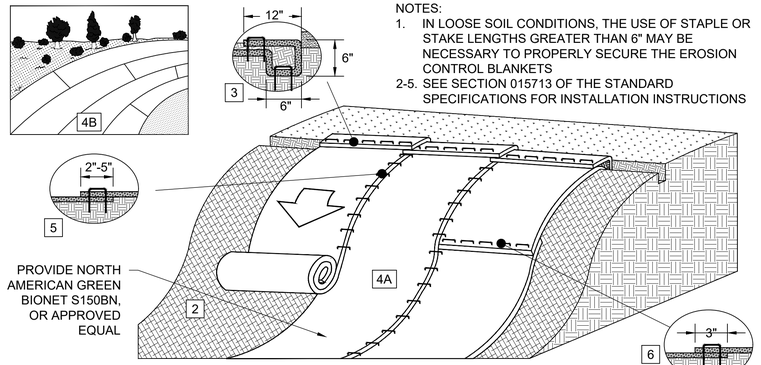
SHEET NUMBER:
C-1.8



NOTES:
1. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SLOPE.
2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE EROSION CONTROL BLANKETS
3-10. SEE SECTION 015713 OF STANDARD SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS

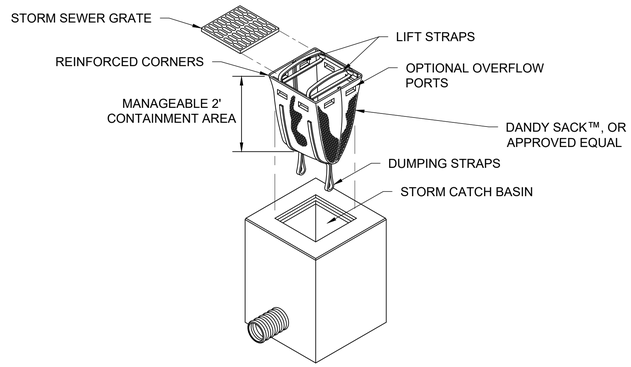
CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

EROSION CONTROL BLANKET (CHANNELS) DETAIL A
N.T.S.

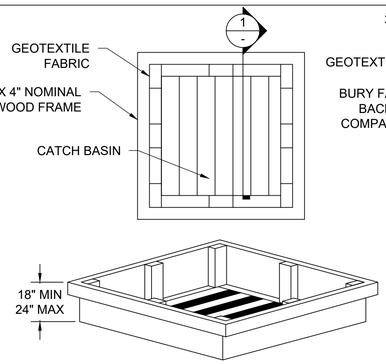


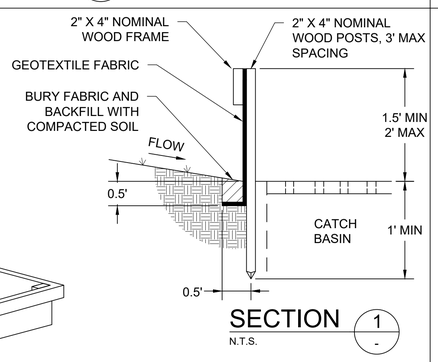
NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE EROSION CONTROL BLANKETS
2-5. SEE SECTION 015713 OF THE STANDARD SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS

EROSION CONTROL BLANKET (SLOPES) DETAIL B
N.T.S.



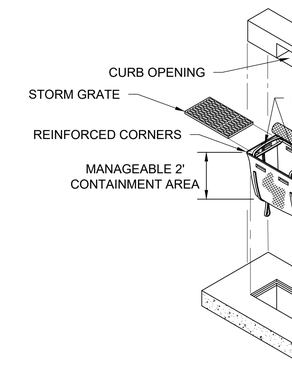
CATCH BASIN INLET PROTECTION DETAIL C
N.T.S.



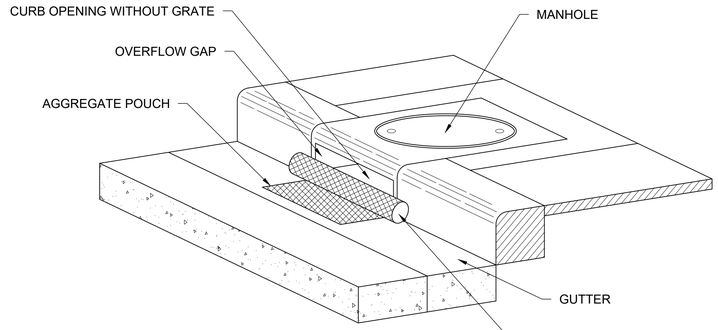


CATCH BASIN INLET PROTECTION DETAIL D
N.T.S.

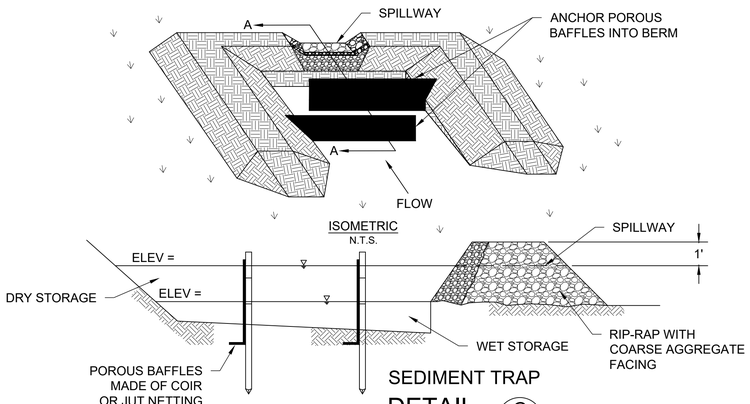
SECTION 1
N.T.S.



COMBO INLET PROTECTION DETAIL E
N.T.S.

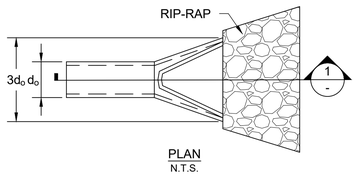


CURB INLET PROTECTION DETAIL F
N.T.S.

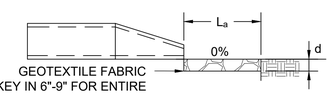


SEDIMENT TRAP DETAIL G
N.T.S.

A - LOW TAILWATER

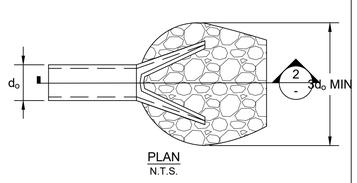


PLAN
N.T.S.

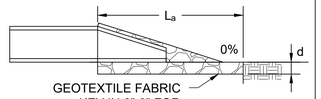


SECTION A-A
N.T.S.

B - HIGH TAILWATER



PLAN
N.T.S.



SECTION B-B
N.T.S.

TEMPORARY OUTLET PROTECTION DETAIL H
N.T.S.

PHILLIP LEWIS ENGINEERING, INC.
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STATE OF ARKANSAS
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PAGE TITLE:
EROSION CONTROL DETAILS II

SHEET NUMBER:
C-1.9

DRAINAGE REPORT

Splash Carwash

Date: **05-11-2022**

Located in: **Bryant, Arkansas**

Prepared for:
City of Bryant, Arkansas

Prepared by:

PHILLIP LEWIS ENGINEERING

Structural + Civil Consultants

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PH: 501-350-9840

PHILLIP LEWIS ENGINEERING, INC.
Structural/Civil Design
23620 Interstate 30 N
Bryant, Arkansas 72022

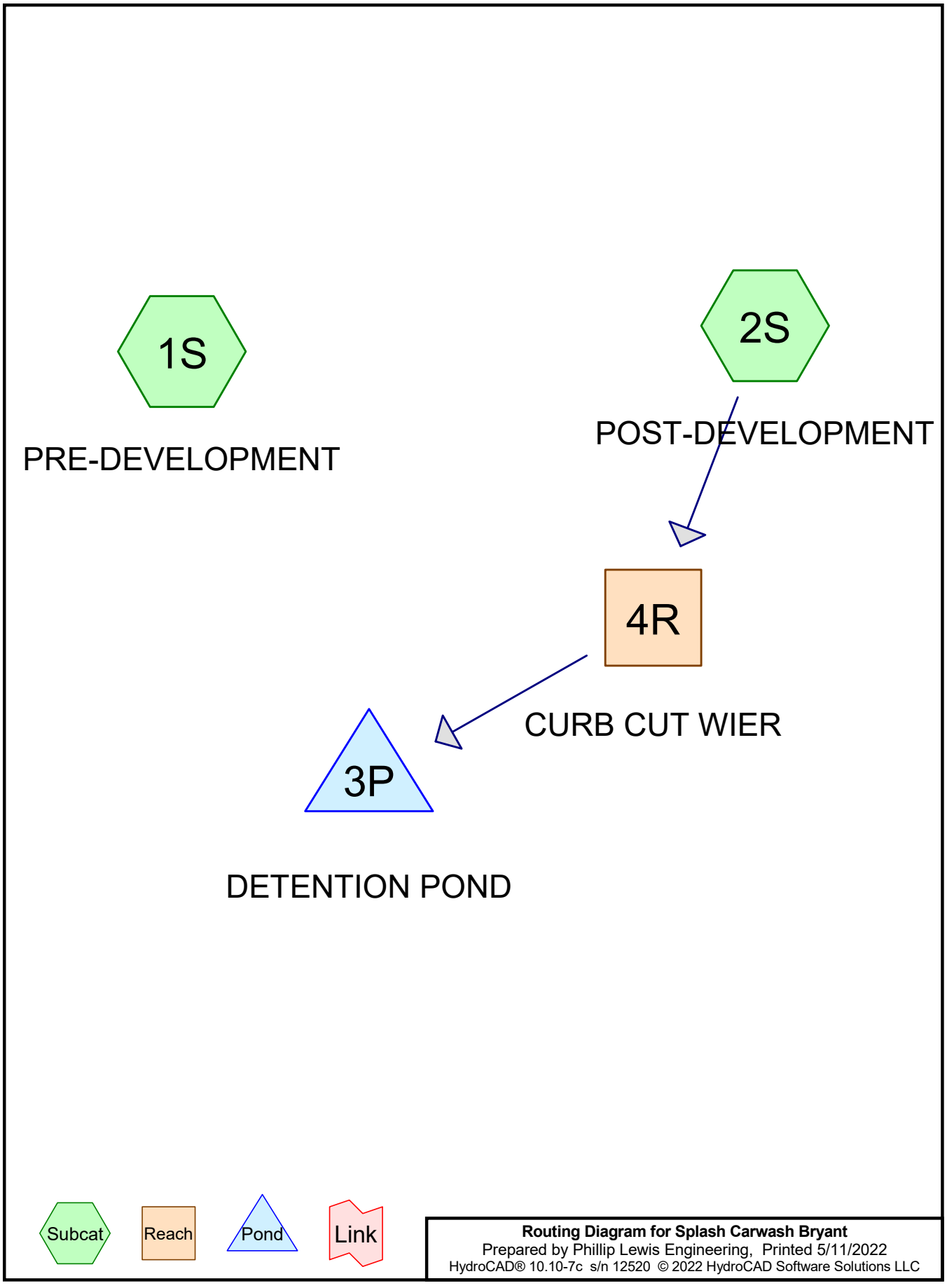
Description of Project

The proposed project is for development of Splash Carwash facility located at 2116 Reynolds Rood in Bryant, Arkansas. The 1.09 acres is located at the intersection of Reynolds Road and Evans loop (old filling station site).

The scope of the project includes the construction of a drive thru tunnel carwash with self service vacuum bays and a covered pay kiosk. In addition to the vacuum bays, new interior landscape islands will be added around the vacuum bays as well as new landscape areas at the South and West side of the property.

Post-development runoff conditions will be reduced from Pre-development runoff conditions after completion of the devlopement with a detention pond constructed in the North East Corner of the property. Post-development site conditions will have an increase in pervious areas. Detention is calculated and sized for the 100 year storm.

PHILLIP LEWIS ENGINEERING, INC.
Structural/Civil Design
23620 Interstate 30 N
Bryant, Arkansas 72022



Routing Diagram for Splash Carwash Bryant
Prepared by Phillip Lewis Engineering, Printed 5/11/2022
HydroCAD® 10.10-7c s/n 12520 © 2022 HydroCAD Software Solutions LLC

Area Listing (all nodes)

Area (acres)	C	Description (subcatchment-numbers)
0.516	0.95	ASPHALT SURFACE (2S)
0.390	0.46	GRASS LANDSCAPING (2S)
0.712	0.65	GRAVEL PARKING (1S)
0.152	0.97	ROOF TOP (2S)
0.345	0.77	SHRUB POOR CONDITION BRUSH (1S)
2.115	**0.73**	**TOTAL AREA**

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)
1	3P	384.50	384.00	10.0	0.0500	0.011	0.0	12.0	0.0

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.63"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=2.53 cfs 0.056 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.71"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=2.82 cfs 0.062 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.19' Max Vel=4.94 fps Inflow=2.82 cfs 0.062 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=2.83 cfs 0.062 af

Pond 3P: DETENTION POND Peak Elev=385.57' Storage=1,038 cf Inflow=2.83 cfs 0.062 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.26 cfs 0.062 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.118 af Average Runoff Depth = 0.67"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

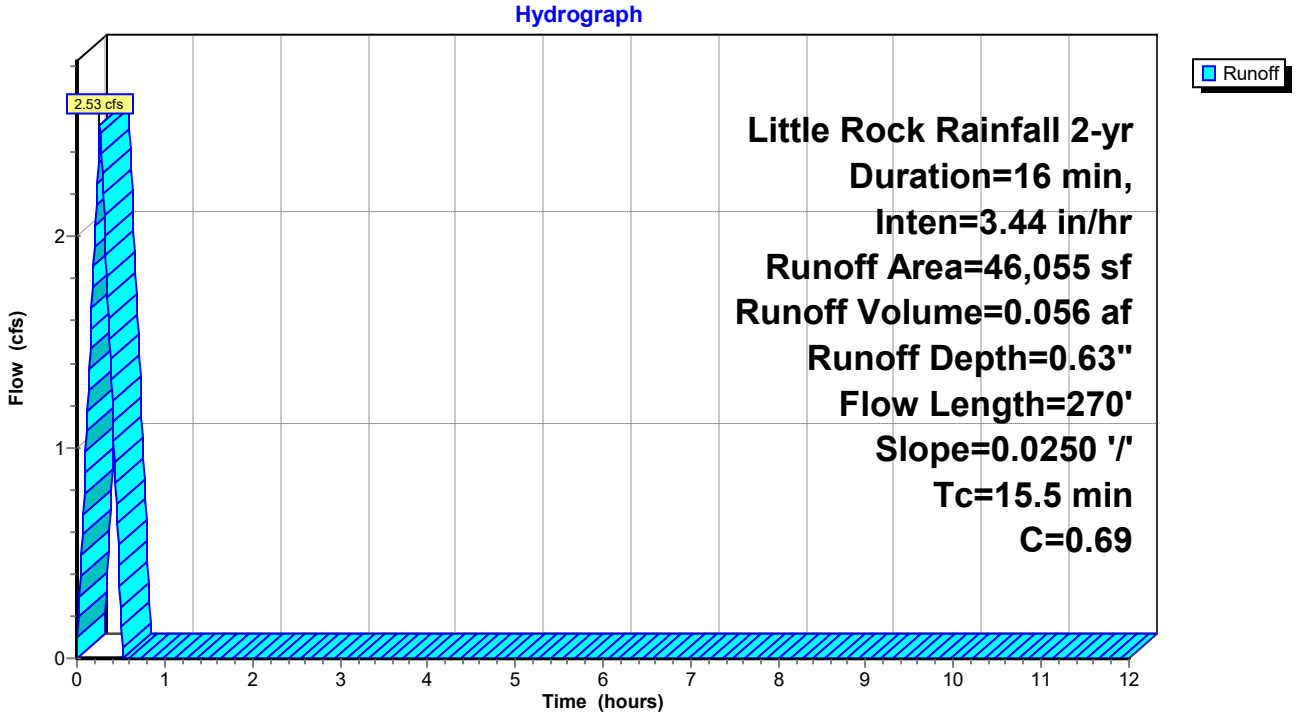
Runoff = 2.53 cfs @ 0.26 hrs, Volume= 0.056 af, Depth= 0.63"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 2-yr Duration=16 min, Inten=3.44 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	0.98	5.20	0.00	10.30	0.00
0.20	**1.96**	5.30	0.00	10.40	0.00
0.30	**2.20**	5.40	0.00	10.50	0.00
0.40	1.22	5.50	0.00	10.60	0.00
0.50	0.24	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

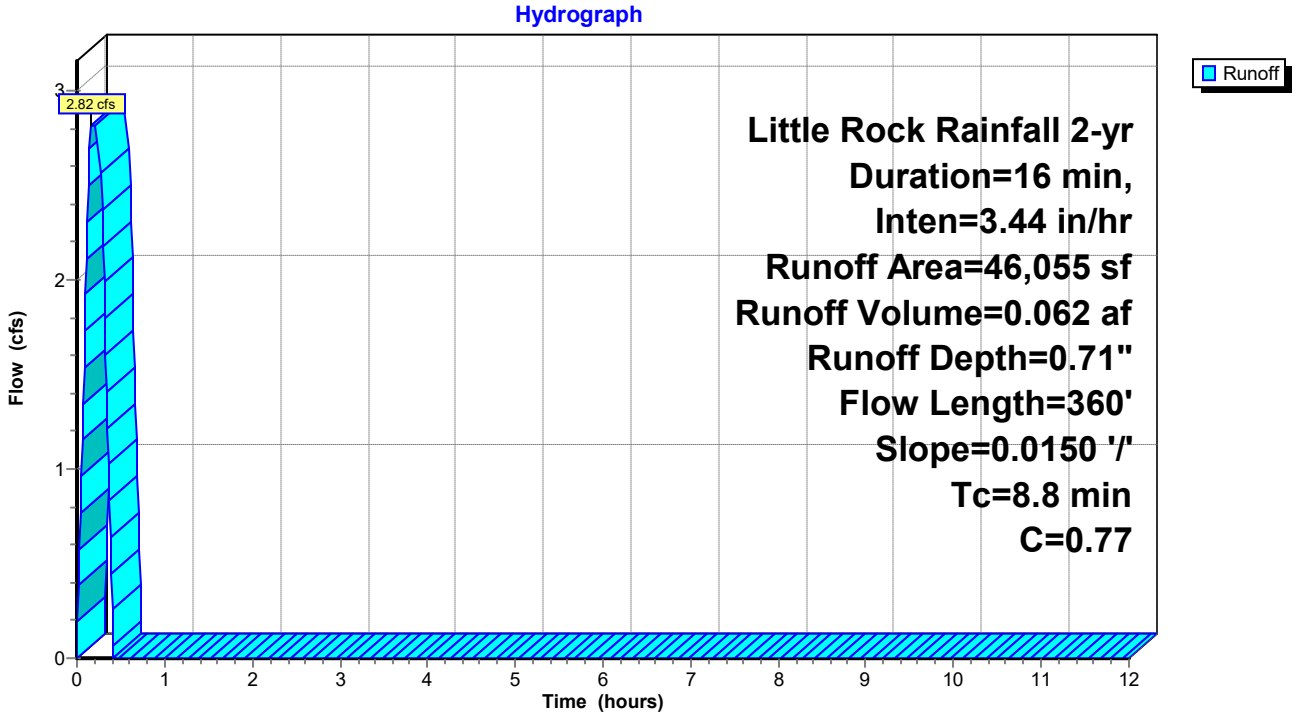
Runoff = 2.82 cfs @ 0.15 hrs, Volume= 0.062 af, Depth= 0.71"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 2-yr Duration=16 min, Inten=3.44 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**1.92**	5.20	0.00	10.30	0.00
0.20	**2.82**	5.30	0.00	10.40	0.00
0.30	2.18	5.40	0.00	10.50	0.00
0.40	0.26	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.71" for 2-yr event
Inflow = 2.82 cfs @ 0.15 hrs, Volume= 0.062 af
Outflow = 2.83 cfs @ 0.16 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

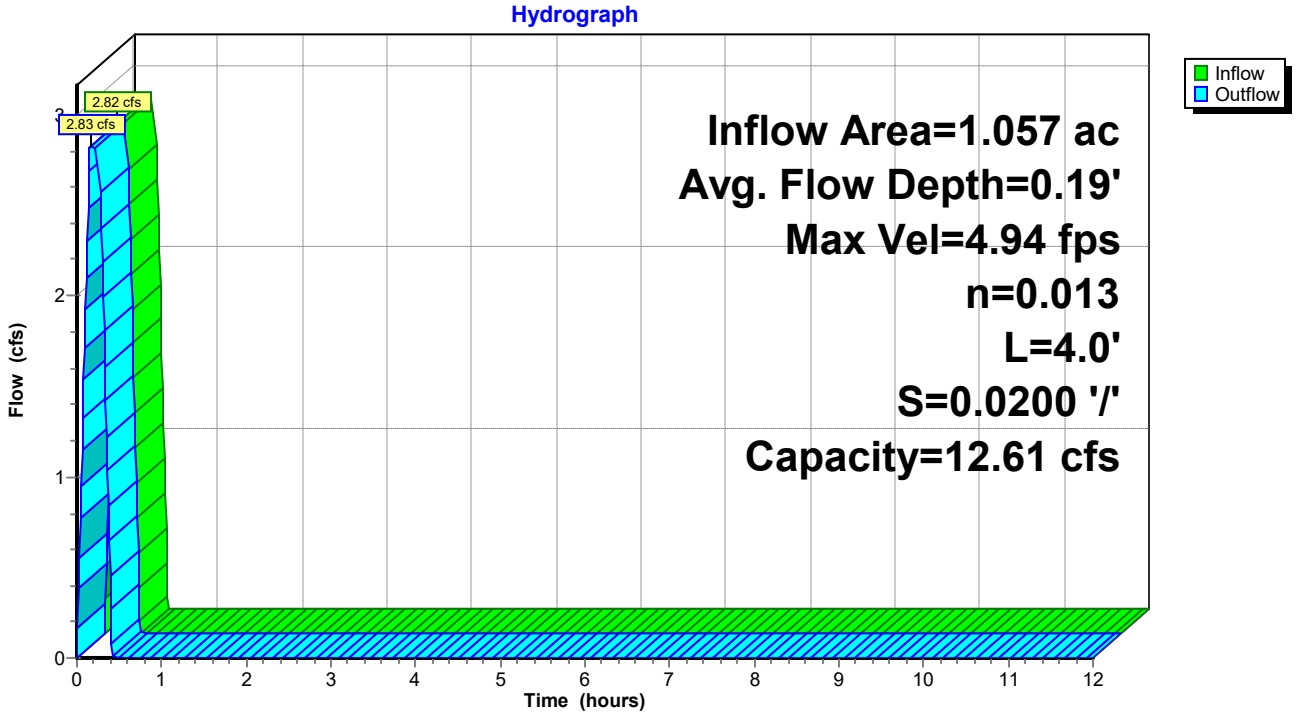
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 4.94 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.92 fps, Avg. Travel Time= 0.0 min

Peak Storage= 2 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

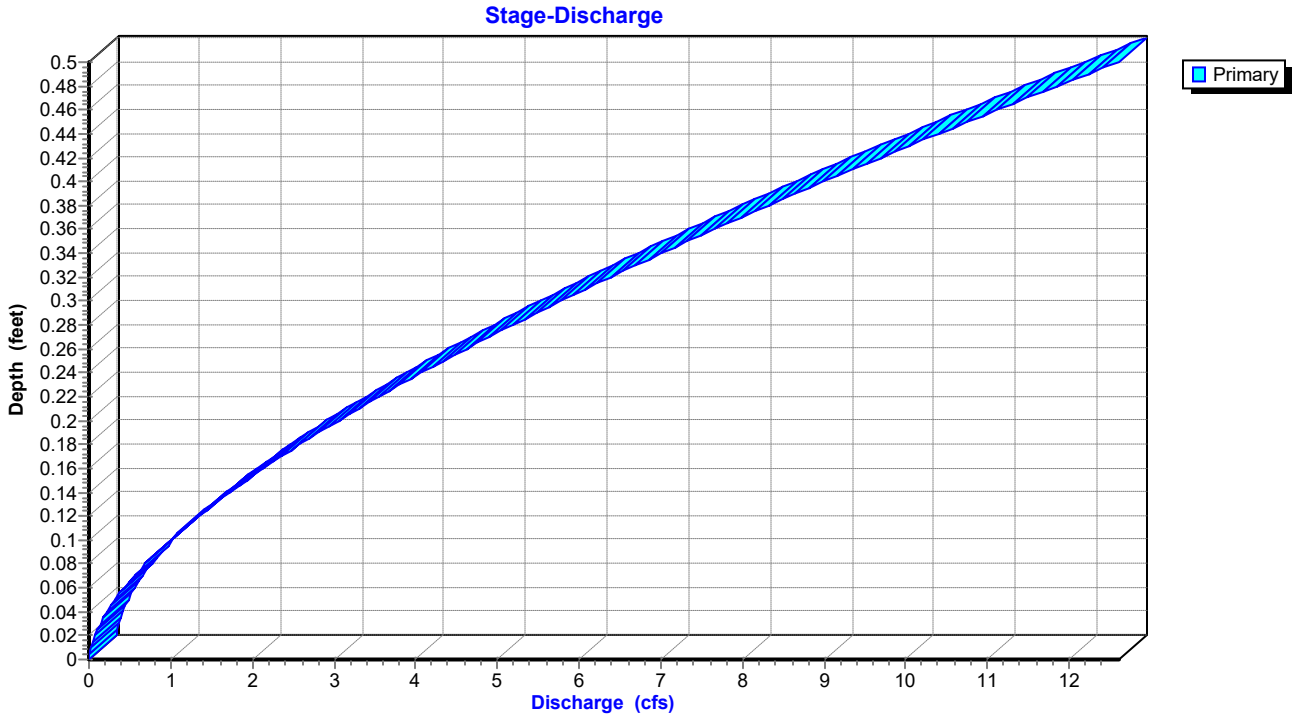
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



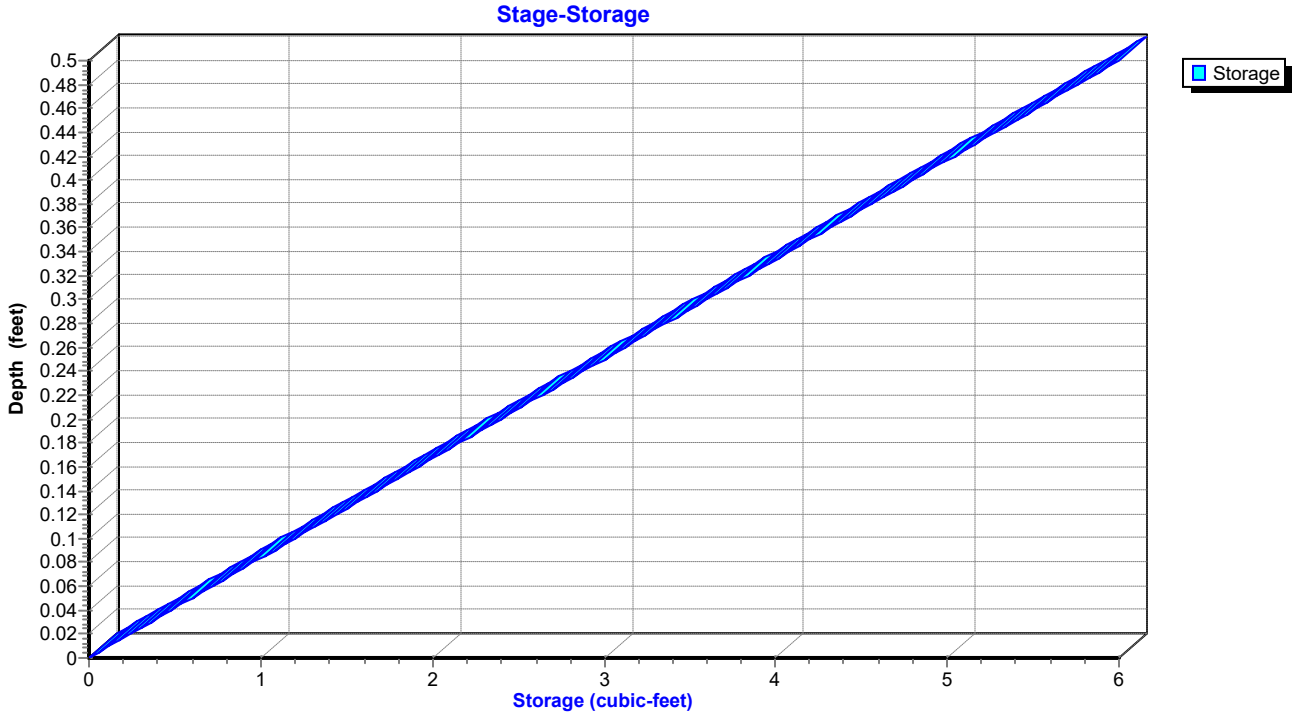
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.71" for 2-yr event
Inflow = 2.83 cfs @ 0.16 hrs, Volume= 0.062 af
Outflow = 2.26 cfs @ 0.30 hrs, Volume= 0.062 af, Atten= 20%, Lag= 8.2 min
Primary = 2.26 cfs @ 0.30 hrs, Volume= 0.062 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.57' @ 0.30 hrs Surf.Area= 1,150 sf Storage= 1,038 cf

Plug-Flow detention time= 10.9 min calculated for 0.062 af (100% of inflow)
Center-of-Mass det. time= 10.8 min (23.3 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

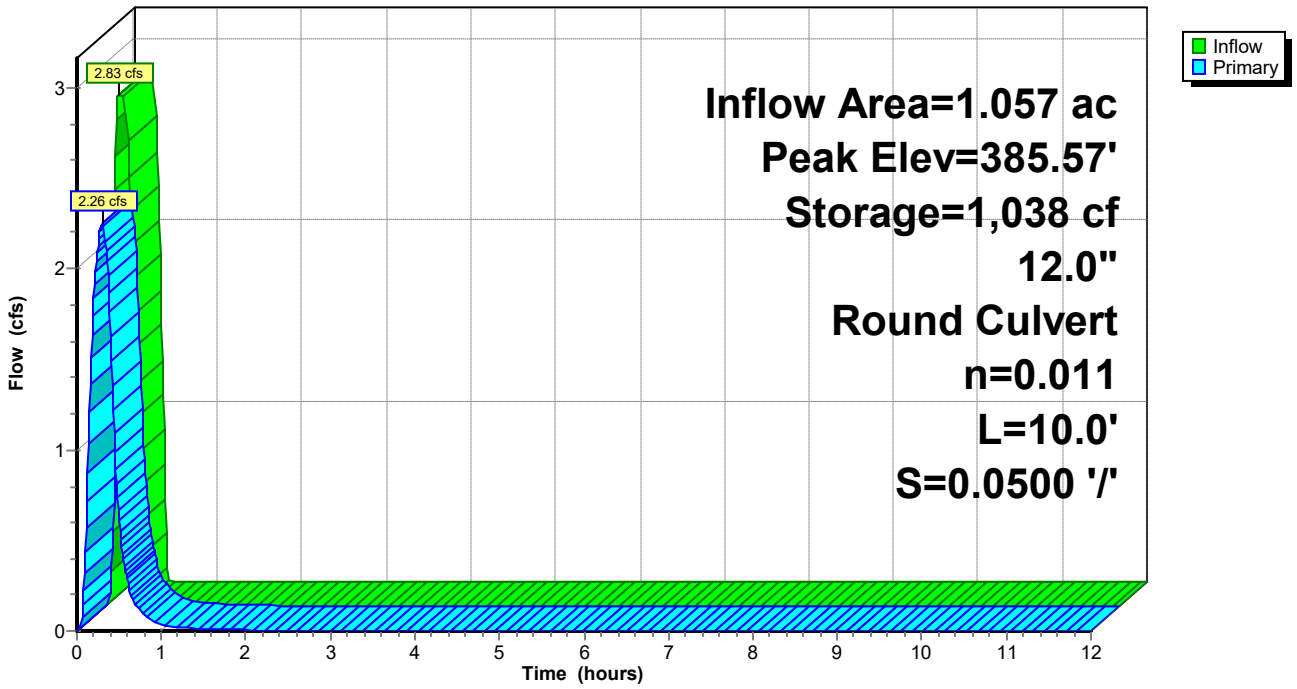
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.26 cfs @ 0.30 hrs HW=385.57' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 2.26 cfs @ 2.87 fps)

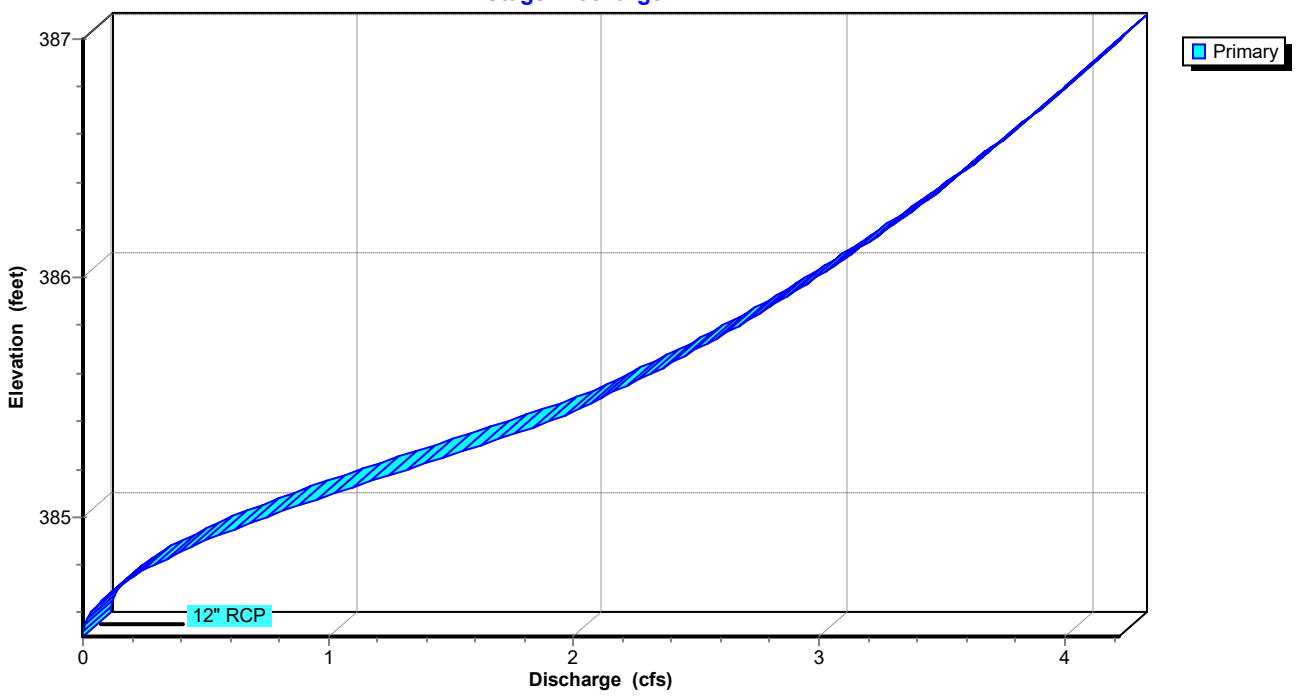
Pond 3P: DETENTION POND

Hydrograph

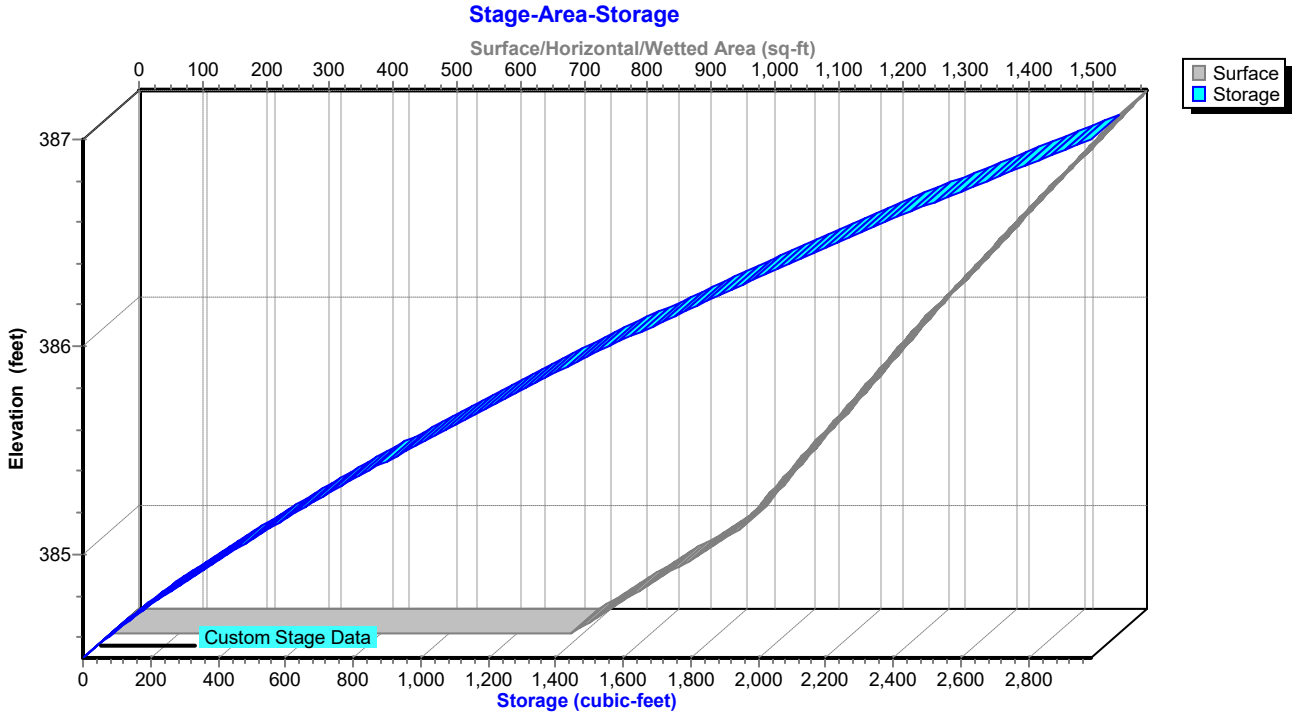


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**375**	**384.95**	**0.61**
1.00	0.00	79	384.60	0.04
1.50	0.00	41	384.56	0.01
2.00	0.00	27	384.54	0.01
2.50	0.00	20	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	10	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	3	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.75"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.01 cfs 0.066 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.84"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=3.36 cfs 0.074 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.21' Max Vel=5.27 fps Inflow=3.36 cfs 0.074 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=3.36 cfs 0.074 af

Pond 3P: DETENTION POND Peak Elev=385.75' Storage=1,253 cf Inflow=3.36 cfs 0.074 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.59 cfs 0.074 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.140 af Average Runoff Depth = 0.80"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

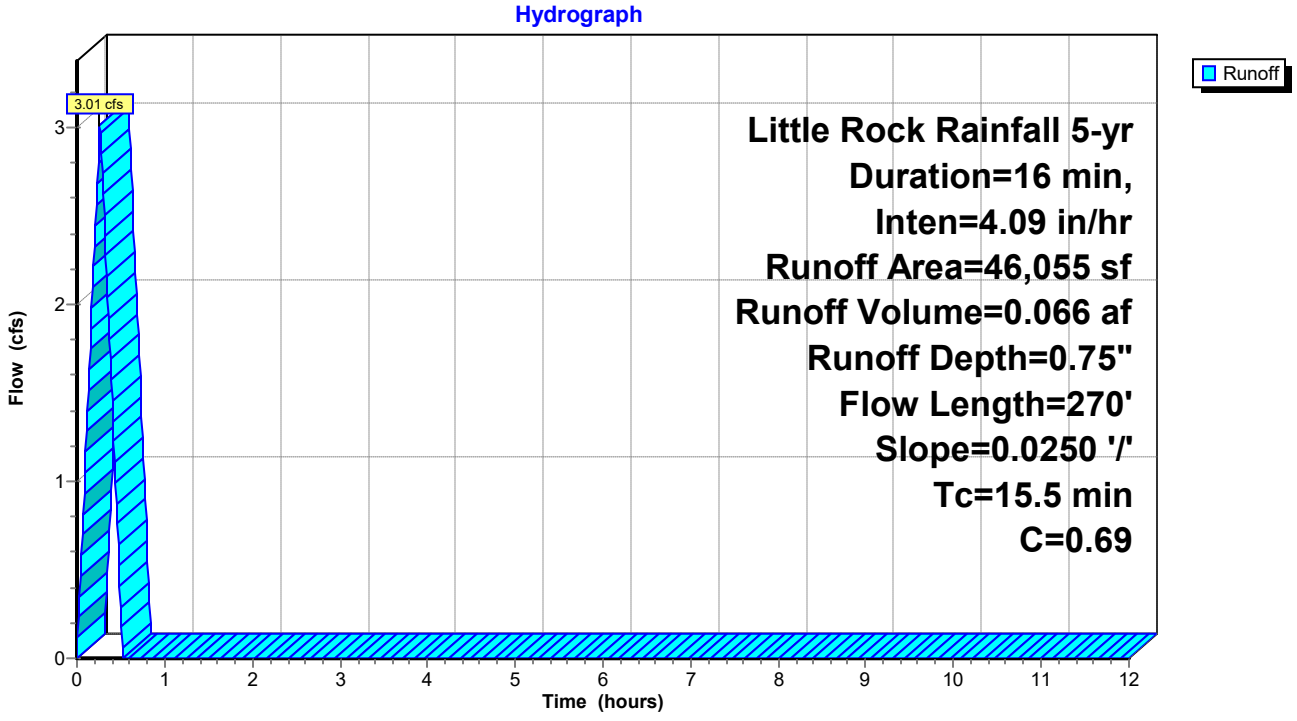
Runoff = 3.01 cfs @ 0.26 hrs, Volume= 0.066 af, Depth= 0.75"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 5-yr Duration=16 min, Inten=4.09 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.16	5.20	0.00	10.30	0.00
0.20	**2.33**	5.30	0.00	10.40	0.00
0.30	**2.62**	5.40	0.00	10.50	0.00
0.40	1.46	5.50	0.00	10.60	0.00
0.50	0.29	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

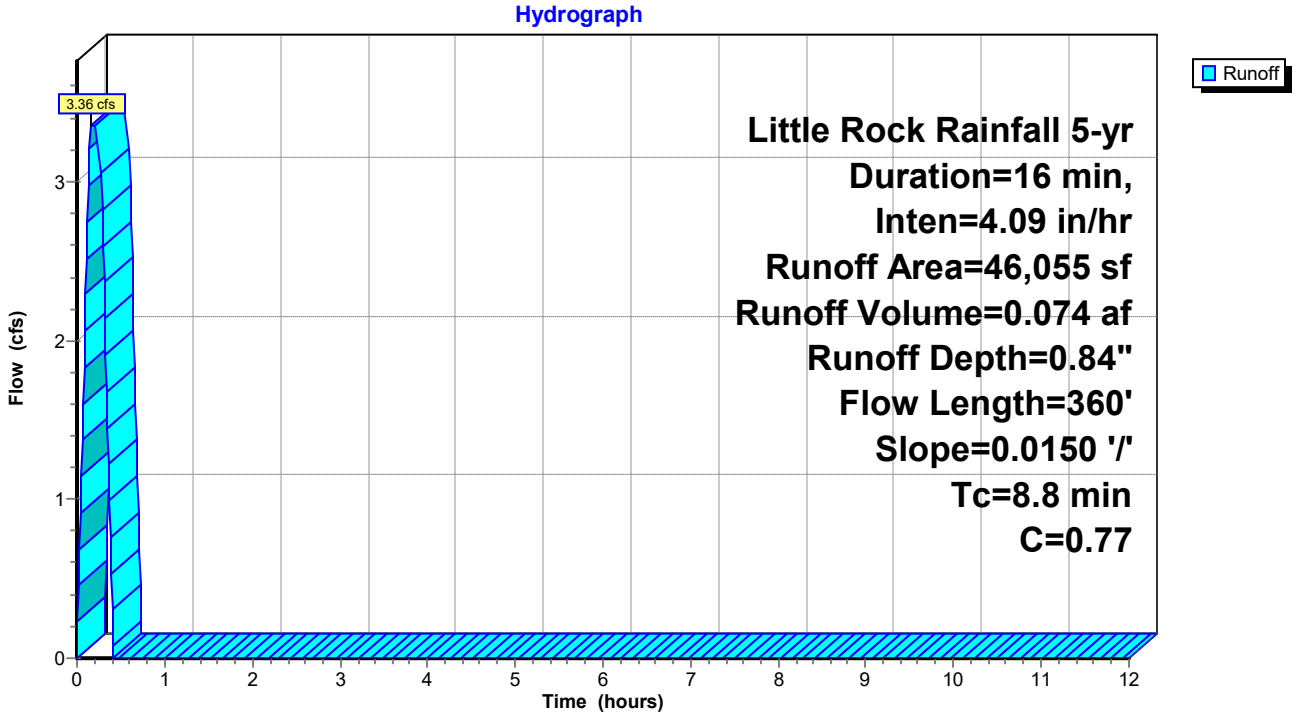
Runoff = 3.36 cfs @ 0.15 hrs, Volume= 0.074 af, Depth= 0.84"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 5-yr Duration=16 min, Inten=4.09 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.29**	5.20	0.00	10.30	0.00
0.20	**3.36**	5.30	0.00	10.40	0.00
0.30	2.59	5.40	0.00	10.50	0.00
0.40	0.31	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.84" for 5-yr event
Inflow = 3.36 cfs @ 0.15 hrs, Volume= 0.074 af
Outflow = 3.36 cfs @ 0.16 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

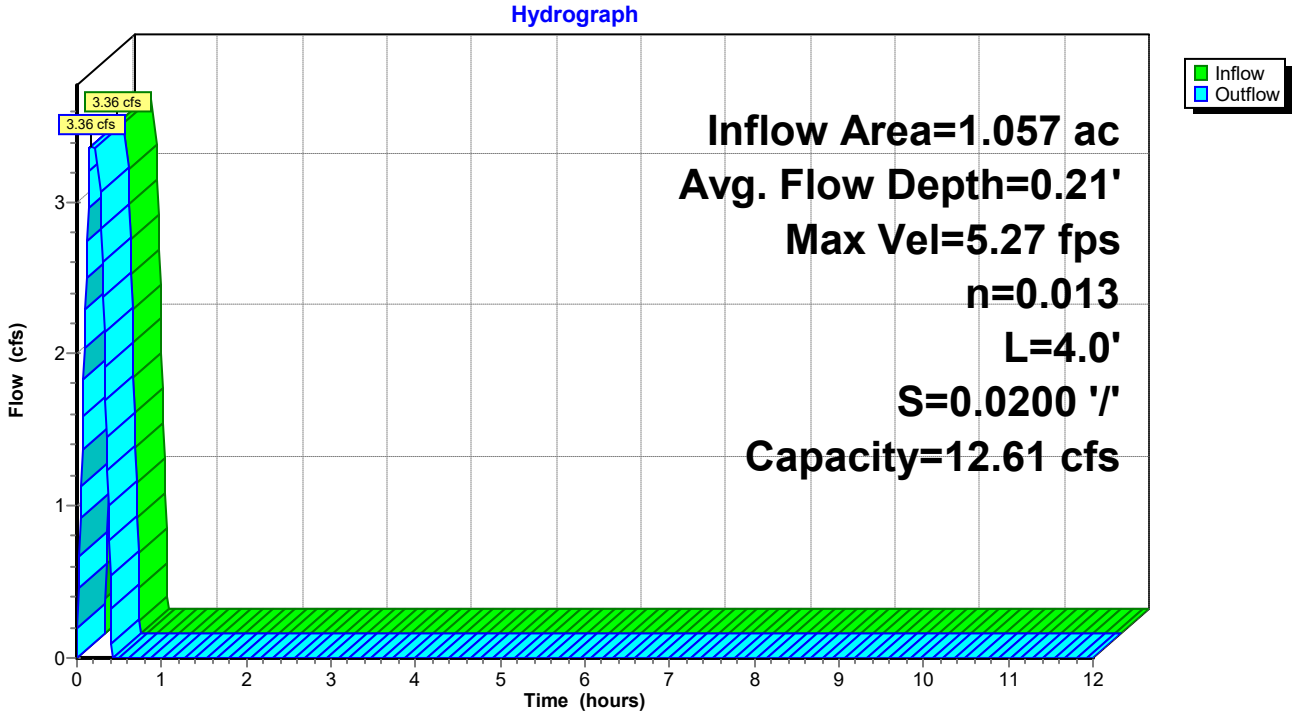
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.27 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.18 fps, Avg. Travel Time= 0.0 min

Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.21' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

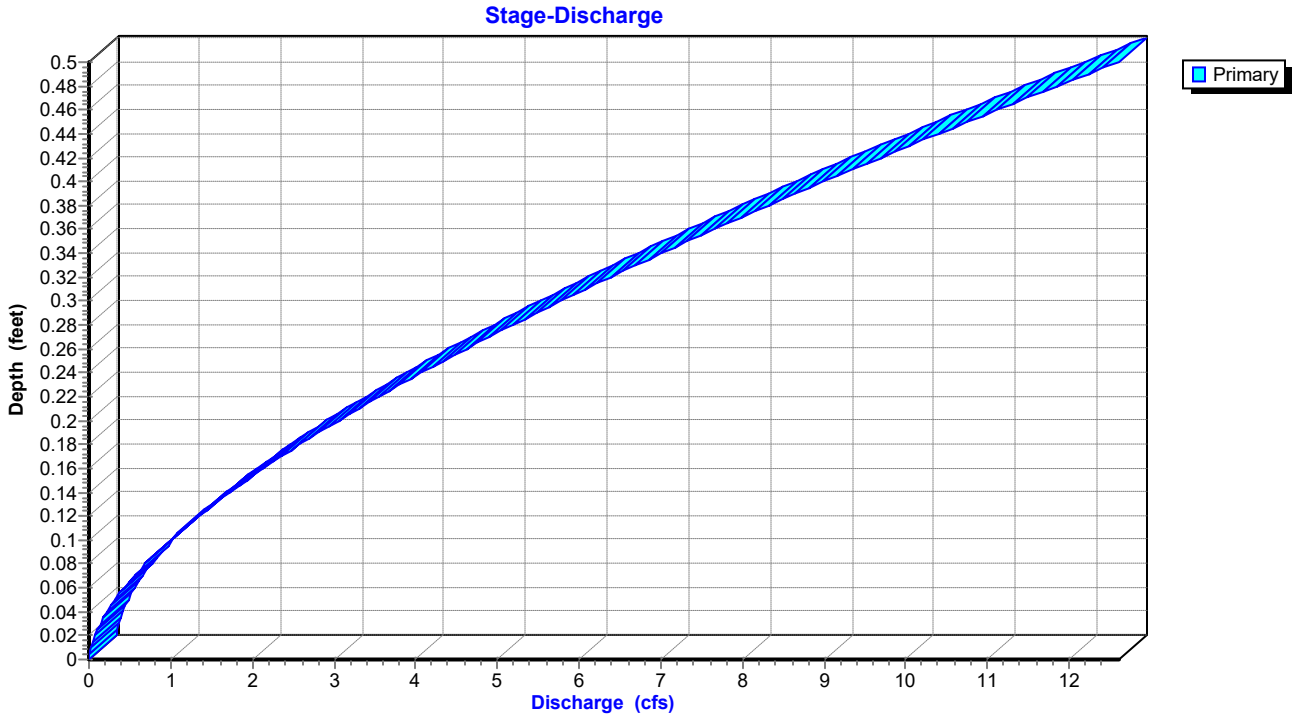
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



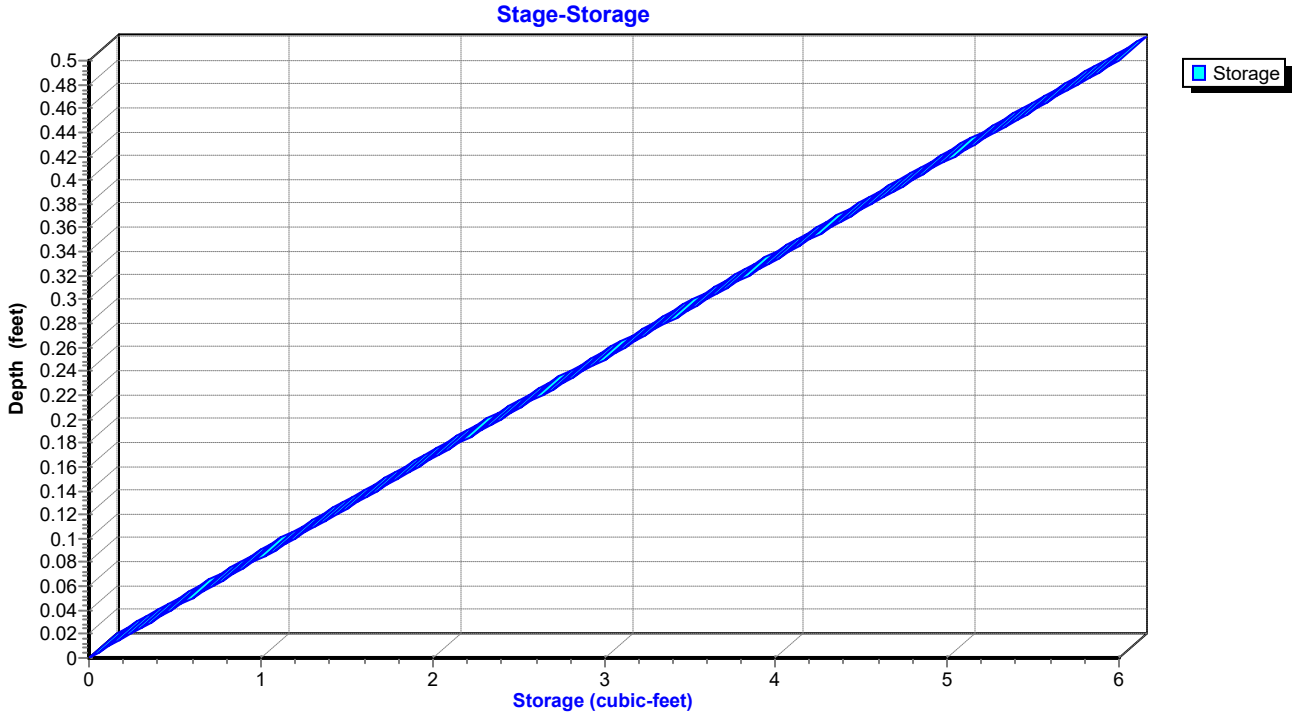
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.84" for 5-yr event
Inflow = 3.36 cfs @ 0.16 hrs, Volume= 0.074 af
Outflow = 2.59 cfs @ 0.30 hrs, Volume= 0.074 af, Atten= 23%, Lag= 8.4 min
Primary = 2.59 cfs @ 0.30 hrs, Volume= 0.074 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.75' @ 0.30 hrs Surf.Area= 1,202 sf Storage= 1,253 cf

Plug-Flow detention time= 10.0 min calculated for 0.074 af (100% of inflow)
Center-of-Mass det. time= 10.4 min (22.9 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

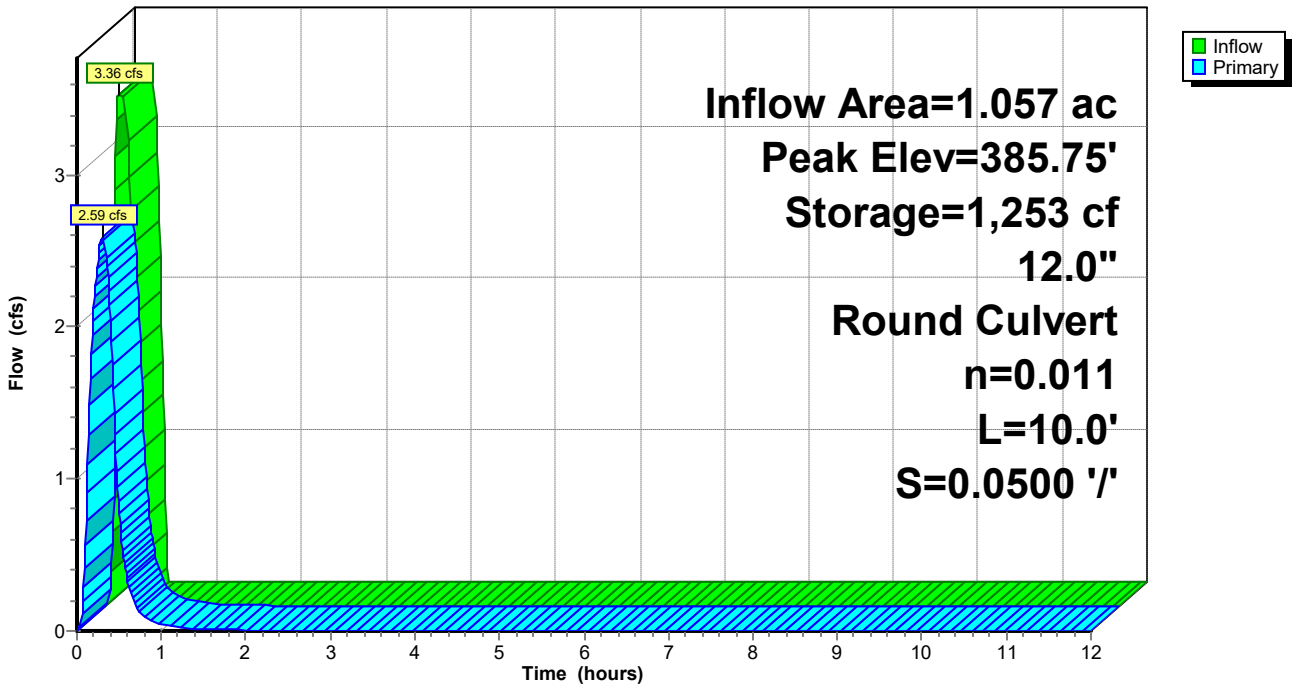
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.59 cfs @ 0.30 hrs HW=385.75' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 2.59 cfs @ 3.30 fps)

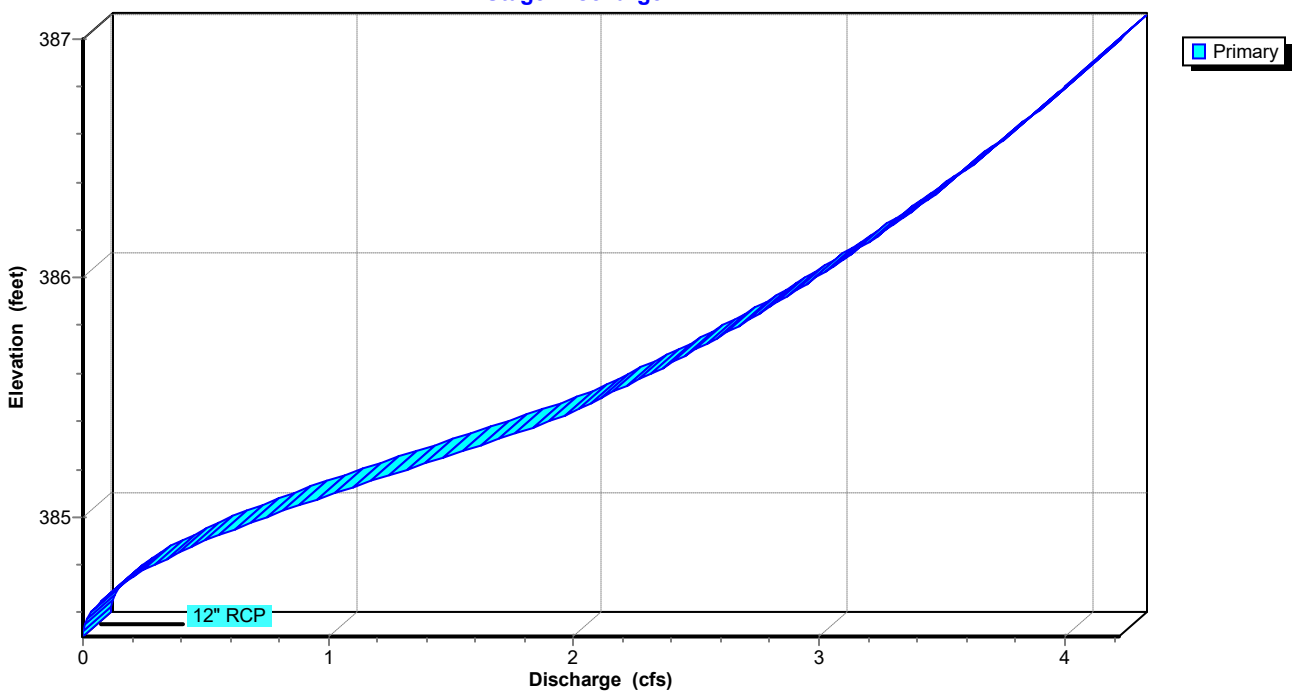
Pond 3P: DETENTION POND

Hydrograph

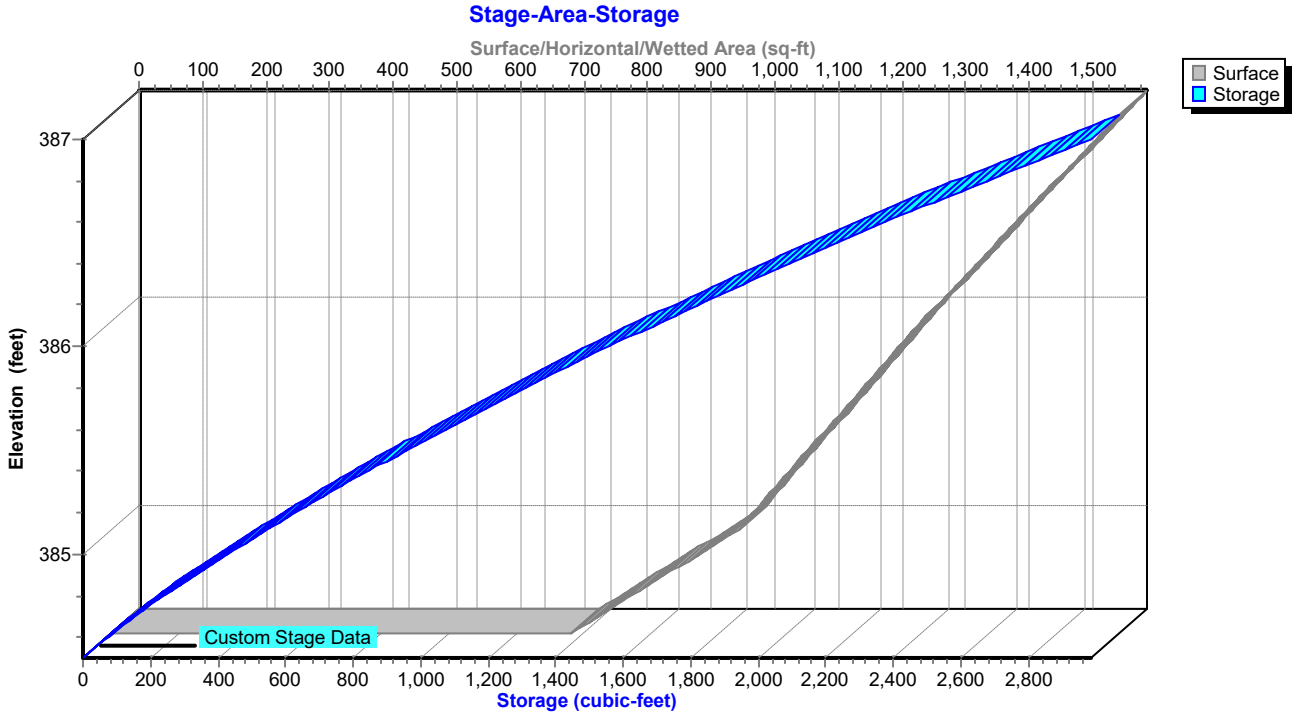


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**439**	**385.01**	**0.78**
1.00	0.00	82	384.61	0.04
1.50	0.00	42	384.56	0.01
2.00	0.00	28	384.54	0.01
2.50	0.00	20	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	10	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	3	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.85"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.39 cfs 0.075 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=0.94"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=3.77 cfs 0.083 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.23' Max Vel=5.50 fps Inflow=3.77 cfs 0.083 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=3.78 cfs 0.083 af

Pond 3P: DETENTION POND Peak Elev=385.90' Storage=1,433 cf Inflow=3.78 cfs 0.083 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=2.83 cfs 0.083 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.158 af Average Runoff Depth = 0.89"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

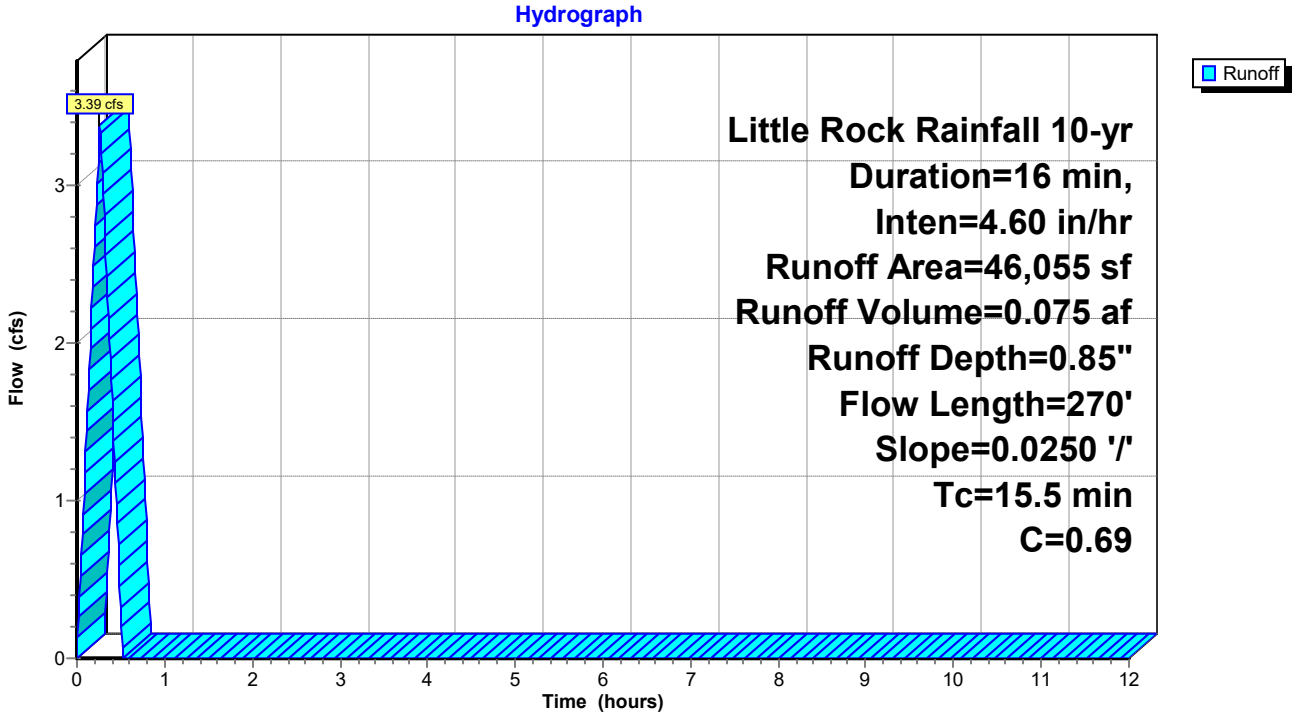
Runoff = 3.39 cfs @ 0.26 hrs, Volume= 0.075 af, Depth= 0.85"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 10-yr Duration=16 min, Inten=4.60 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.31	5.20	0.00	10.30	0.00
0.20	**2.62**	5.30	0.00	10.40	0.00
0.30	**2.95**	5.40	0.00	10.50	0.00
0.40	1.64	5.50	0.00	10.60	0.00
0.50	0.33	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

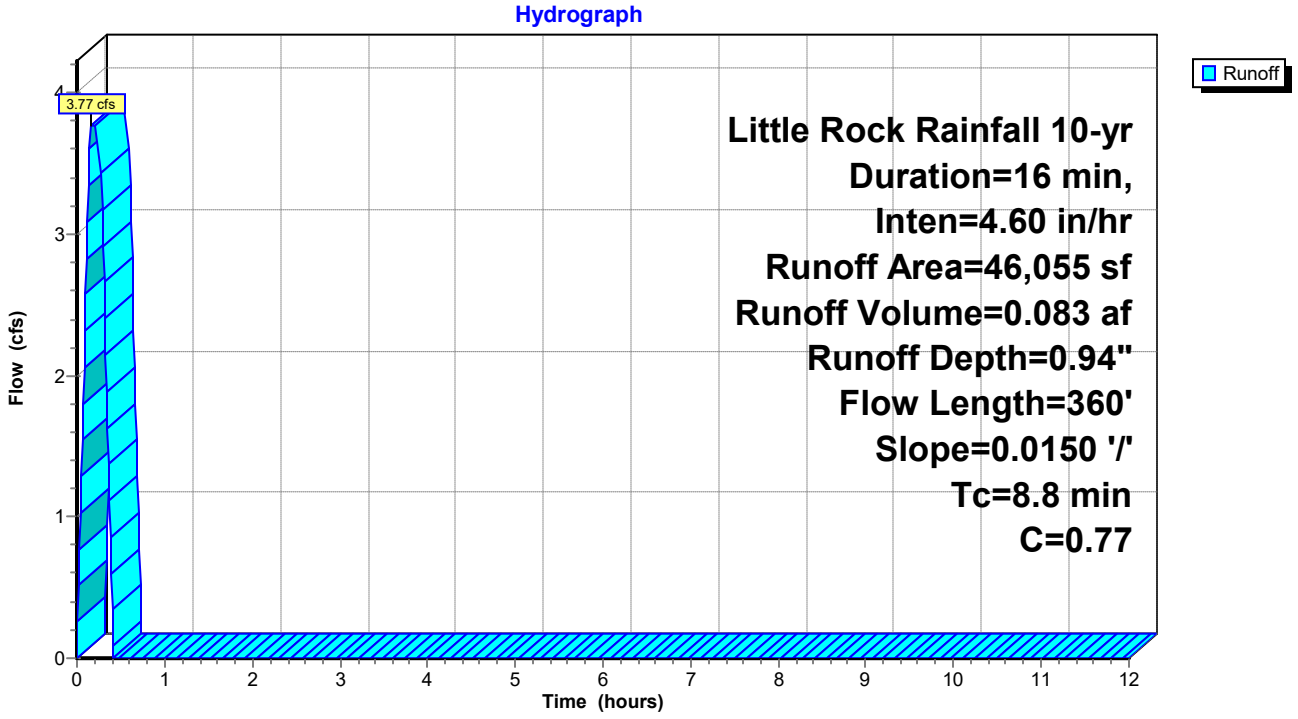
Runoff = 3.77 cfs @ 0.15 hrs, Volume= 0.083 af, Depth= 0.94"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 10-yr Duration=16 min, Inten=4.60 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.57**	5.20	0.00	10.30	0.00
0.20	**3.77**	5.30	0.00	10.40	0.00
0.30	2.92	5.40	0.00	10.50	0.00
0.40	0.34	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.94" for 10-yr event
Inflow = 3.77 cfs @ 0.15 hrs, Volume= 0.083 af
Outflow = 3.78 cfs @ 0.16 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

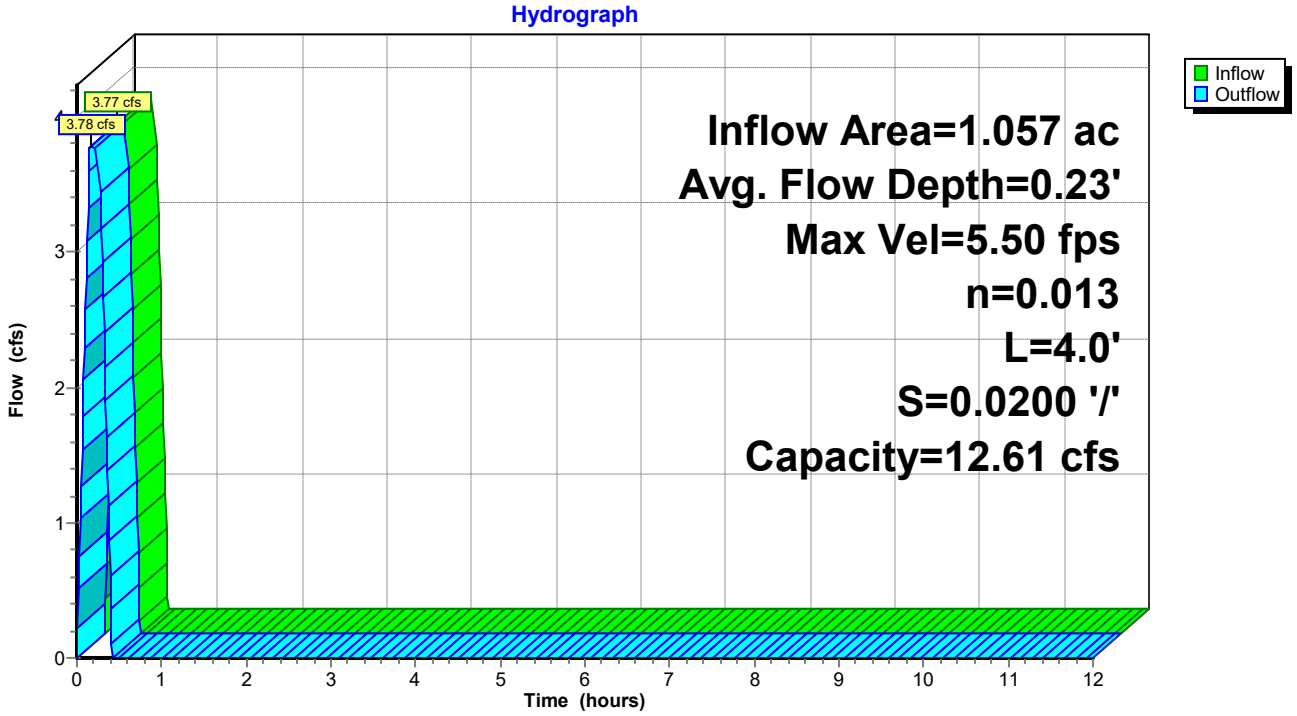
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.50 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.37 fps, Avg. Travel Time= 0.0 min

Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.23' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

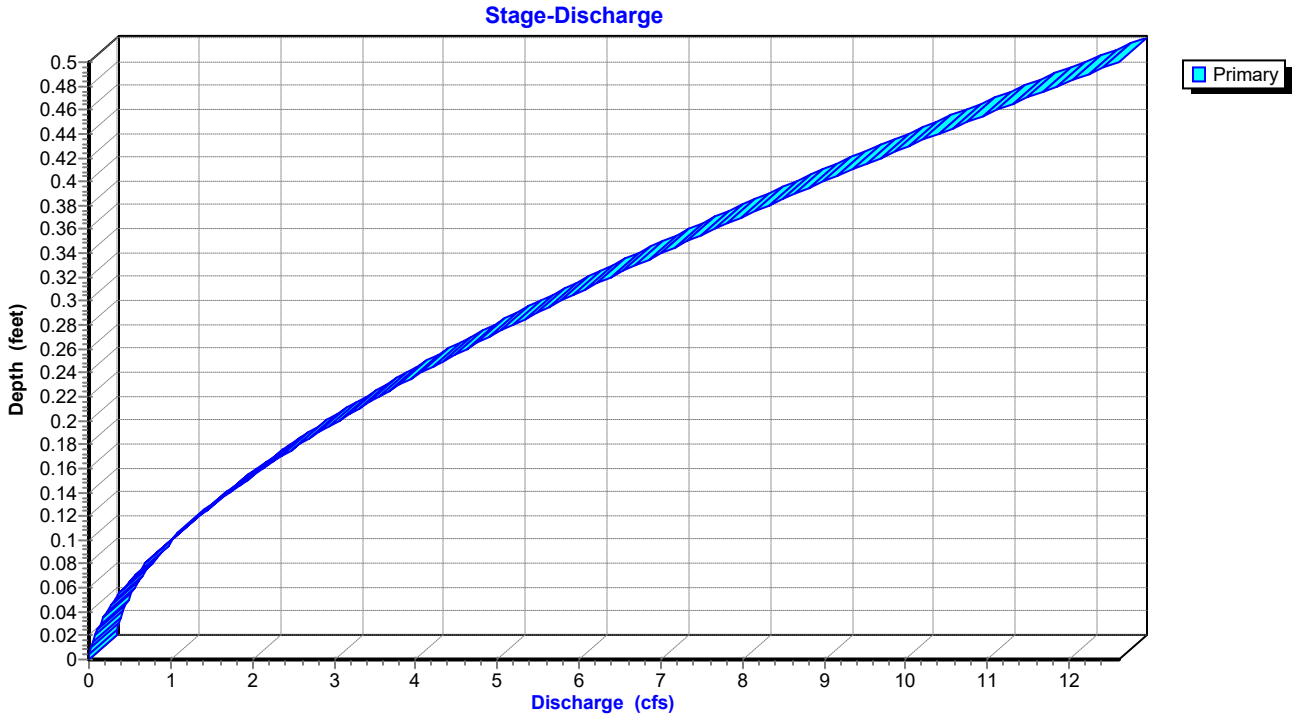
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



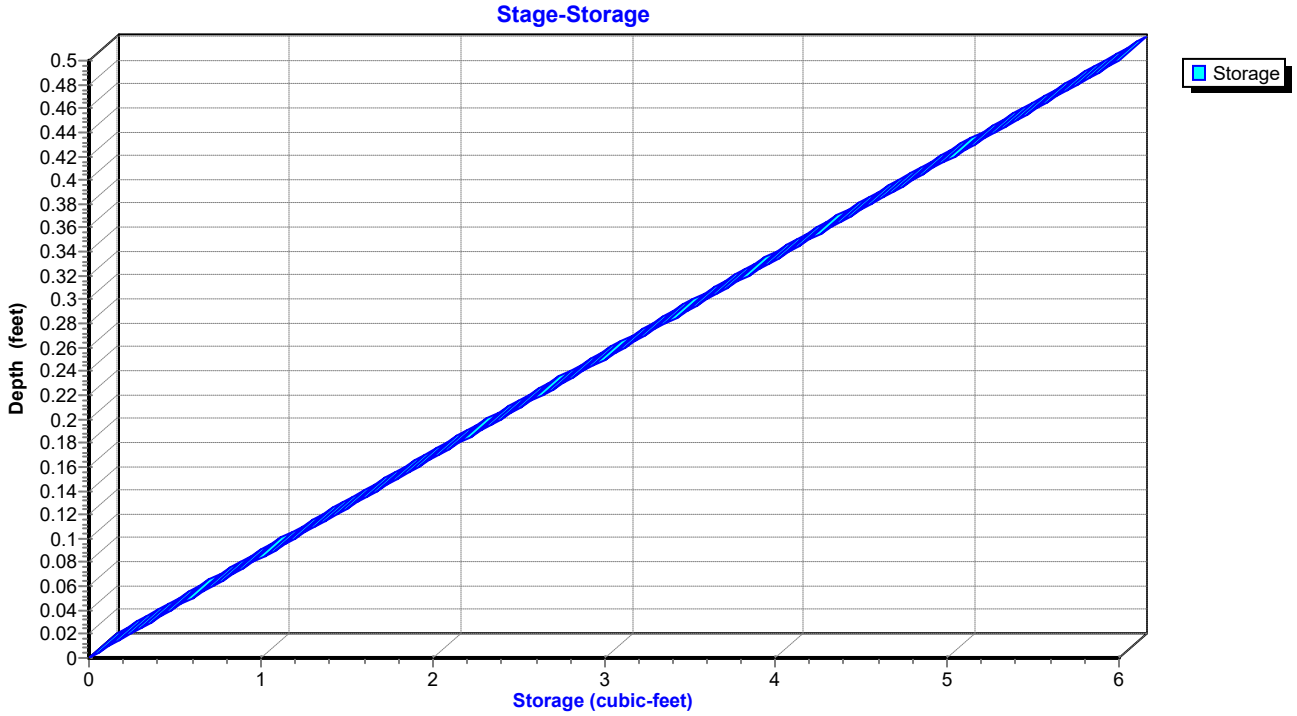
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 0.94" for 10-yr event
Inflow = 3.78 cfs @ 0.16 hrs, Volume= 0.083 af
Outflow = 2.83 cfs @ 0.30 hrs, Volume= 0.083 af, Atten= 25%, Lag= 8.6 min
Primary = 2.83 cfs @ 0.30 hrs, Volume= 0.083 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 385.90' @ 0.30 hrs Surf.Area= 1,245 sf Storage= 1,433 cf

Plug-Flow detention time= 9.9 min calculated for 0.083 af (100% of inflow)
Center-of-Mass det. time= 10.3 min (22.7 - 12.4)

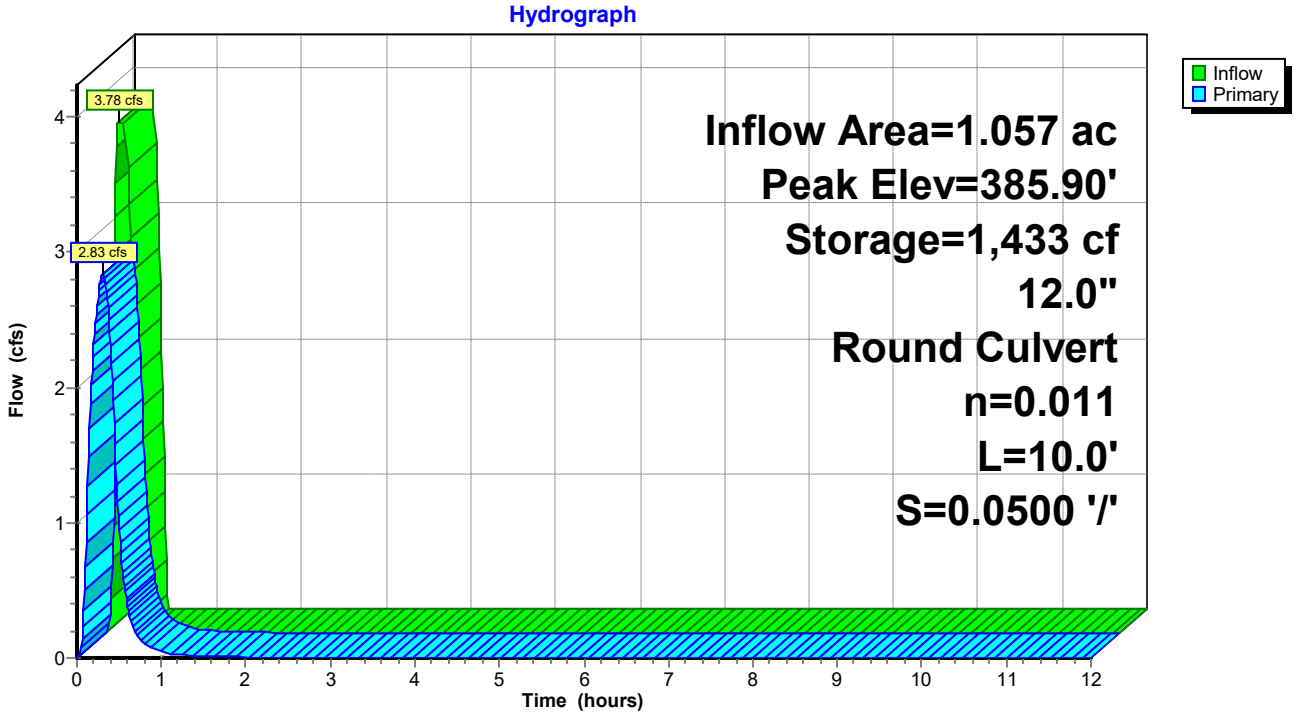
Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

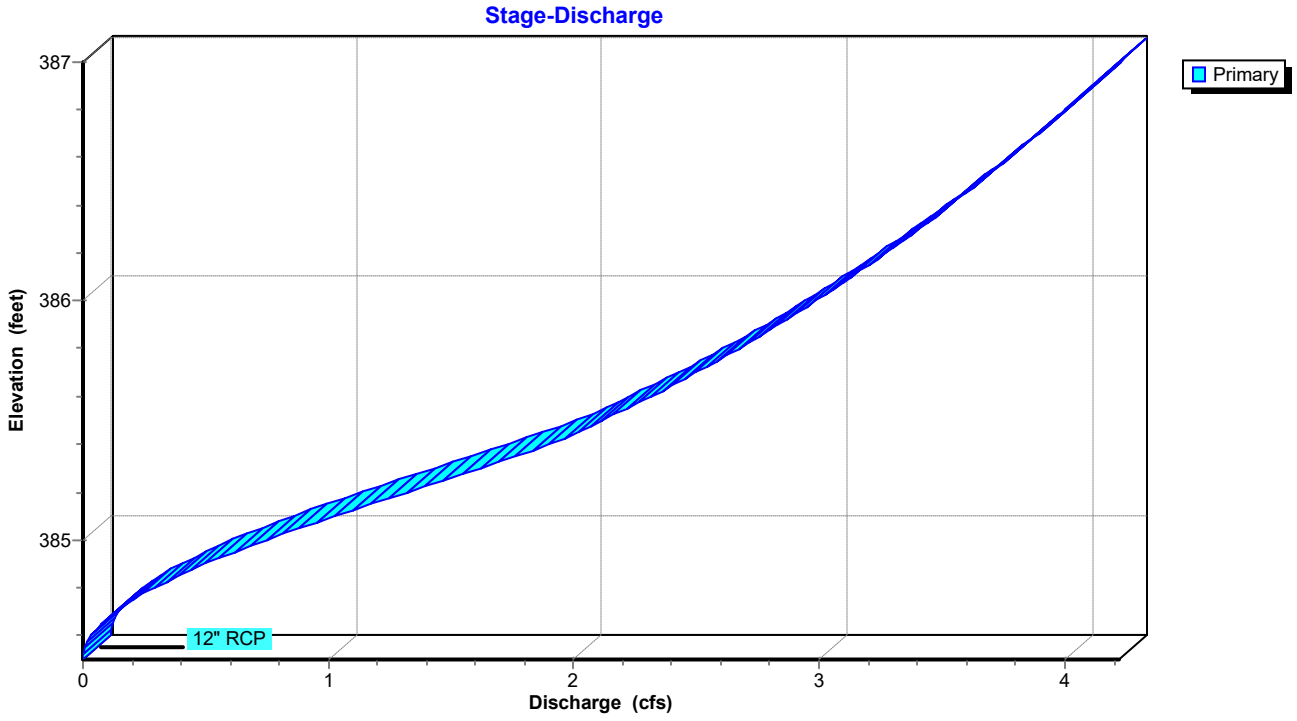
Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=2.83 cfs @ 0.30 hrs HW=385.90' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 2.83 cfs @ 3.61 fps)

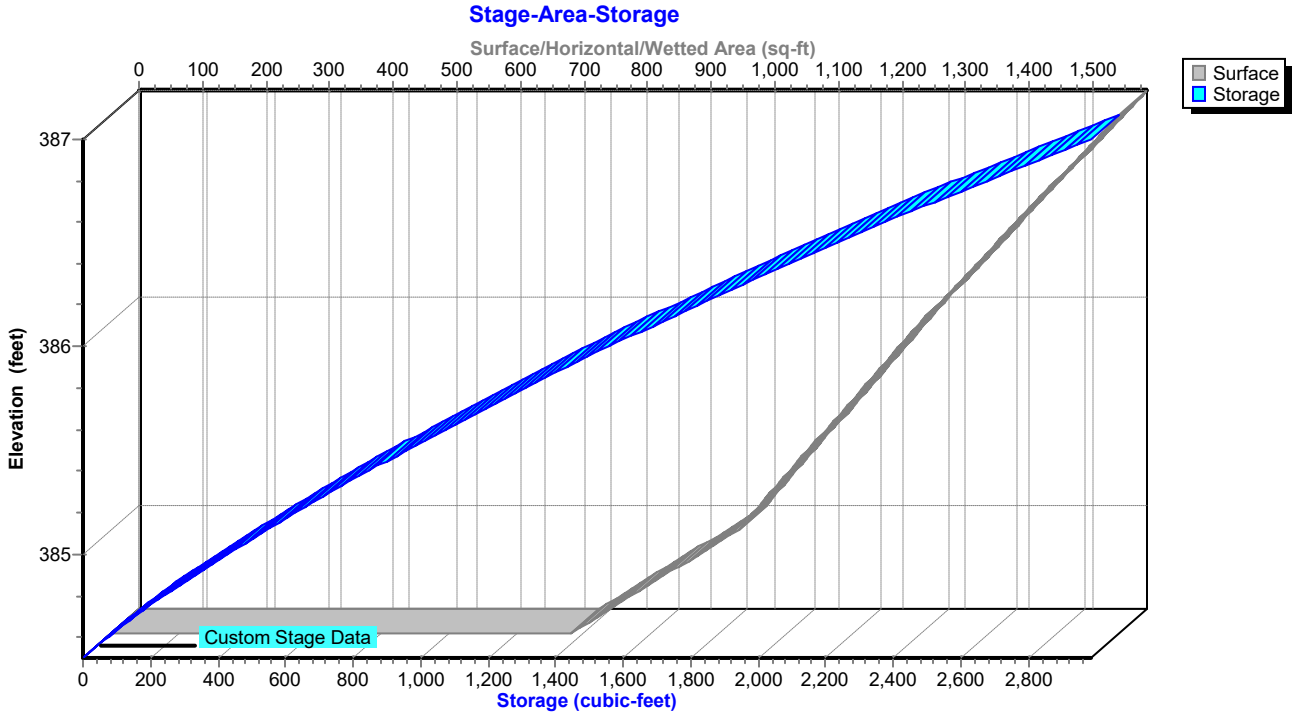
Pond 3P: DETENTION POND



Pond 3P: DETENTION POND



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**499**	**385.07**	**0.94**
1.00	0.00	85	384.61	0.04
1.50	0.00	43	384.56	0.01
2.00	0.00	28	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	8	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	5	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=0.97"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=3.90 cfs 0.086 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.09"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=4.35 cfs 0.096 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.25' Max Vel=5.80 fps Inflow=4.35 cfs 0.096 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=4.36 cfs 0.096 af

Pond 3P: DETENTION POND Peak Elev=386.11' Storage=1,698 cf Inflow=4.36 cfs 0.096 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.14 cfs 0.096 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.182 af Average Runoff Depth = 1.03"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

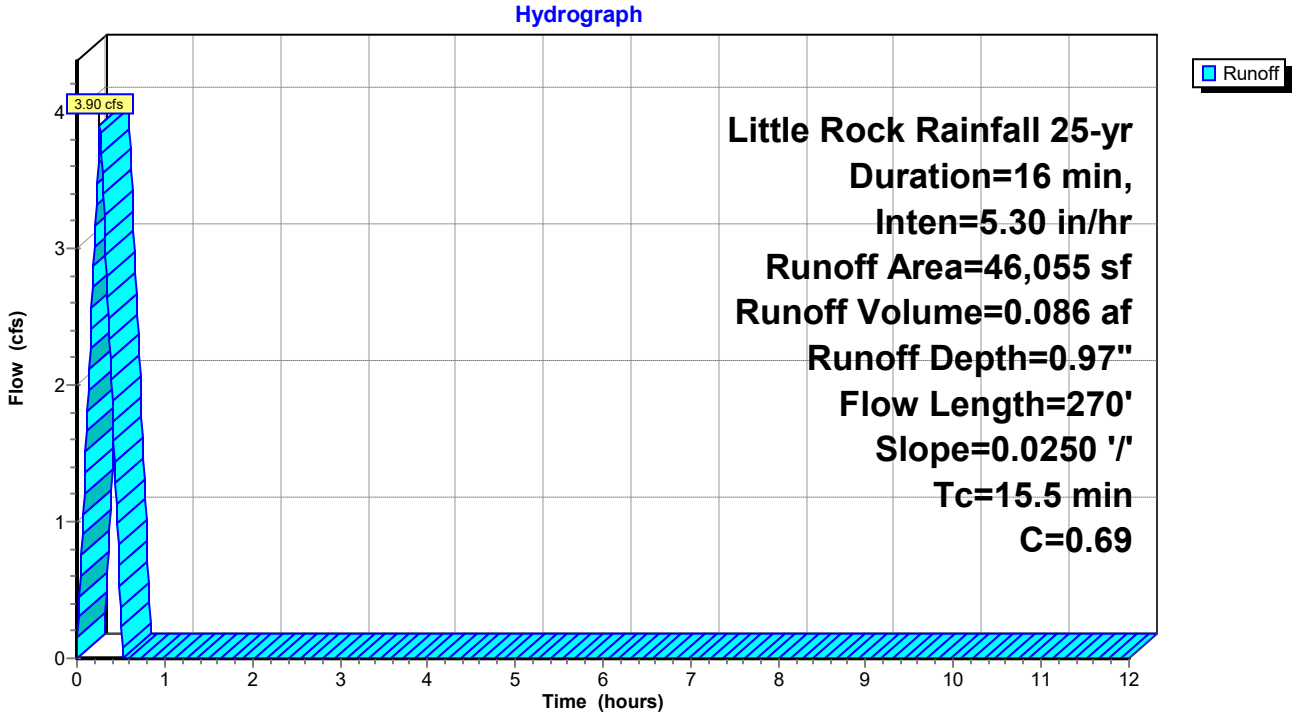
Runoff = 3.90 cfs @ 0.26 hrs, Volume= 0.086 af, Depth= 0.97"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 25-yr Duration=16 min, Inten=5.30 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.51	5.20	0.00	10.30	0.00
0.20	**3.02**	5.30	0.00	10.40	0.00
0.30	**3.39**	5.40	0.00	10.50	0.00
0.40	1.89	5.50	0.00	10.60	0.00
0.50	0.38	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

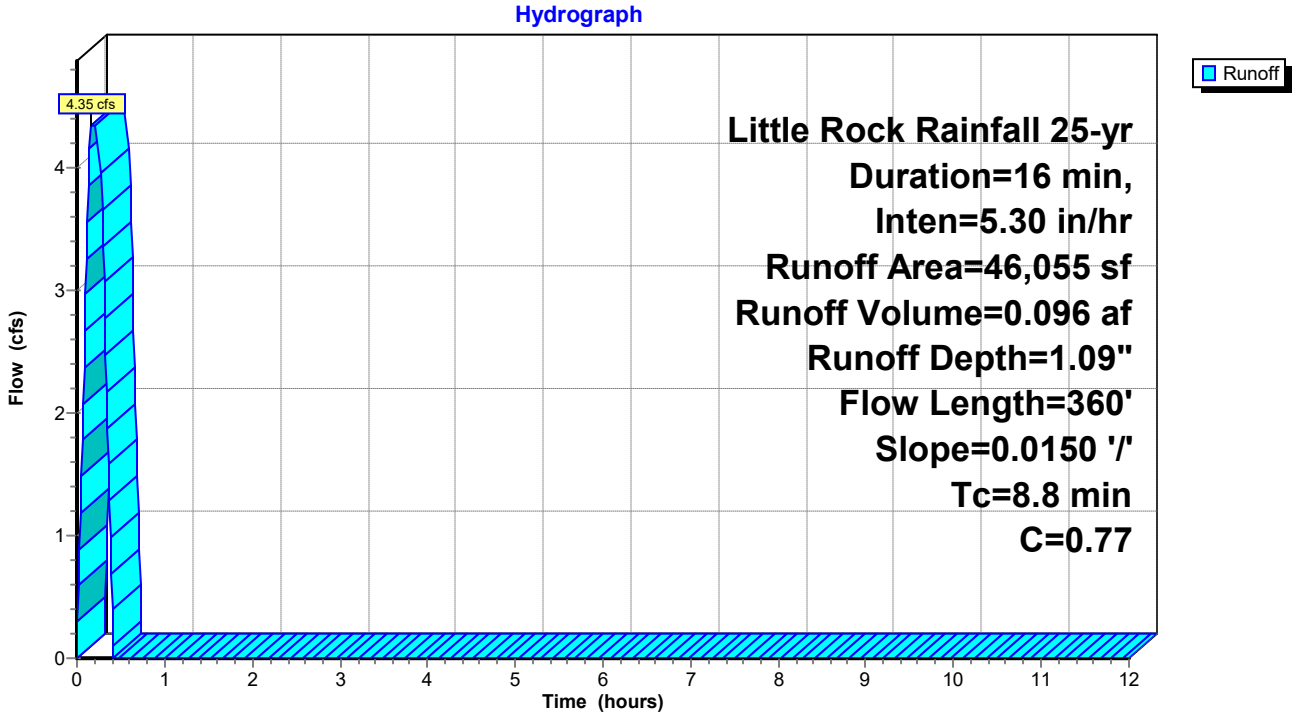
Runoff = 4.35 cfs @ 0.15 hrs, Volume= 0.096 af, Depth= 1.09"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 25-yr Duration=16 min, Inten=5.30 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**2.97**	5.20	0.00	10.30	0.00
0.20	**4.35**	5.30	0.00	10.40	0.00
0.30	3.36	5.40	0.00	10.50	0.00
0.40	0.40	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.09" for 25-yr event
Inflow = 4.35 cfs @ 0.15 hrs, Volume= 0.096 af
Outflow = 4.36 cfs @ 0.16 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

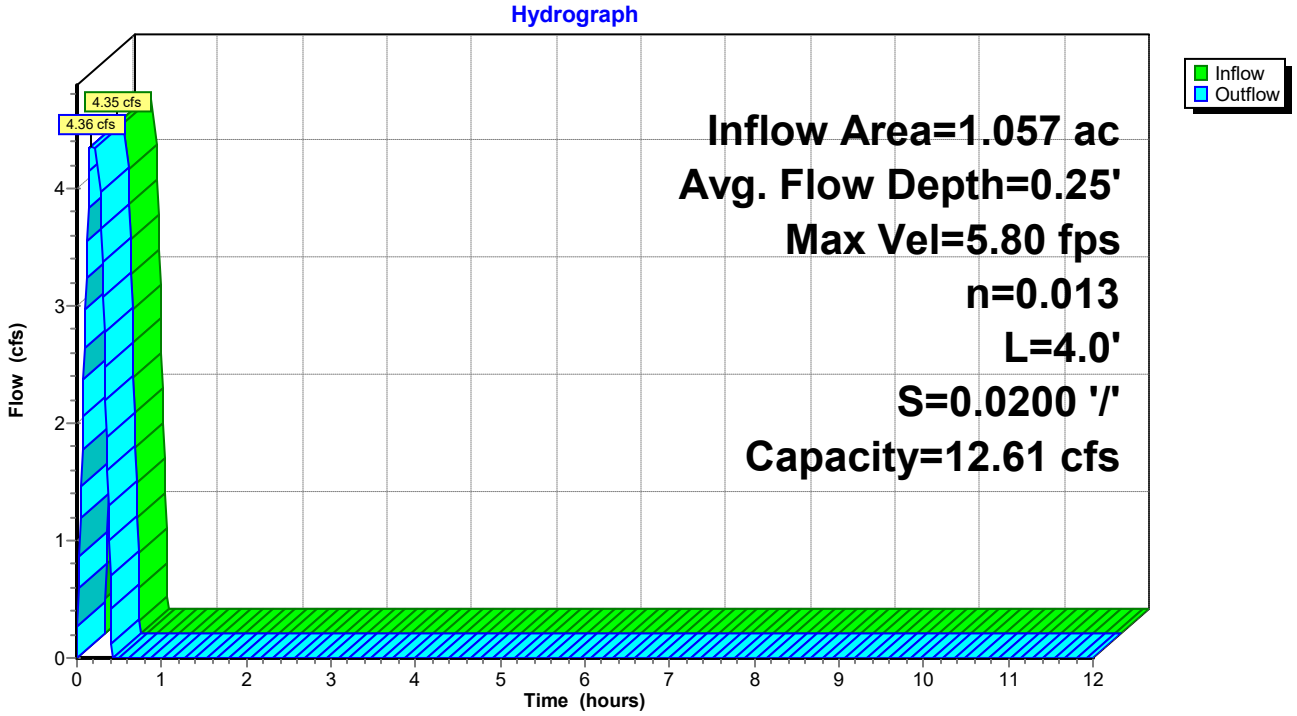
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.80 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.60 fps, Avg. Travel Time= 0.0 min

Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.25' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

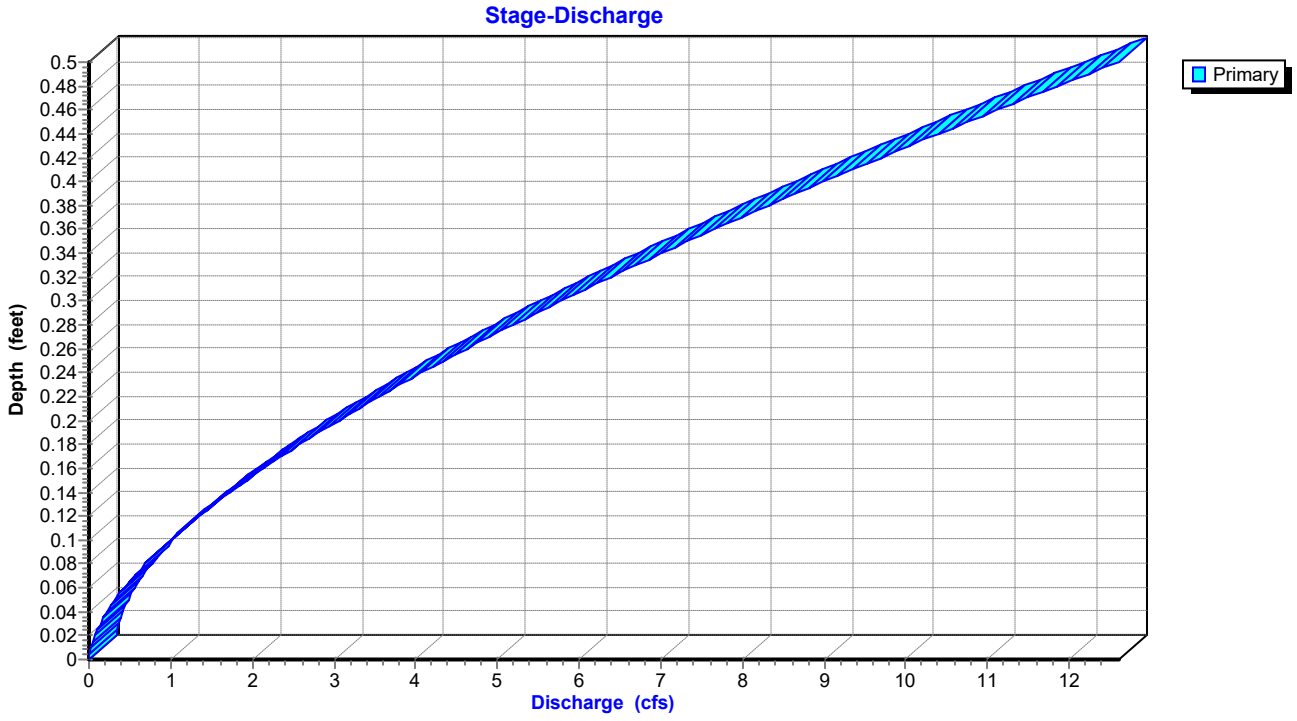
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



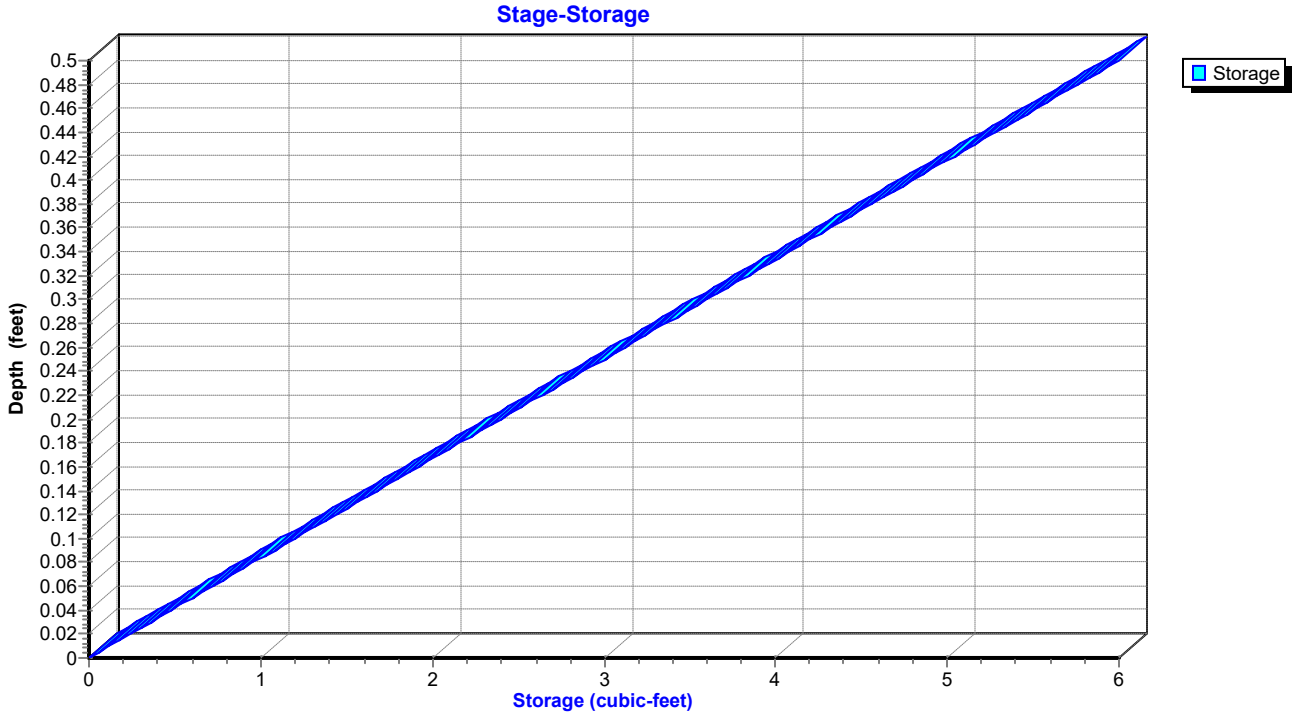
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.09" for 25-yr event
Inflow = 4.36 cfs @ 0.16 hrs, Volume= 0.096 af
Outflow = 3.14 cfs @ 0.31 hrs, Volume= 0.096 af, Atten= 28%, Lag= 8.9 min
Primary = 3.14 cfs @ 0.31 hrs, Volume= 0.096 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.11' @ 0.31 hrs Surf.Area= 1,307 sf Storage= 1,698 cf

Plug-Flow detention time= 9.9 min calculated for 0.096 af (100% of inflow)
Center-of-Mass det. time= 10.2 min (22.7 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

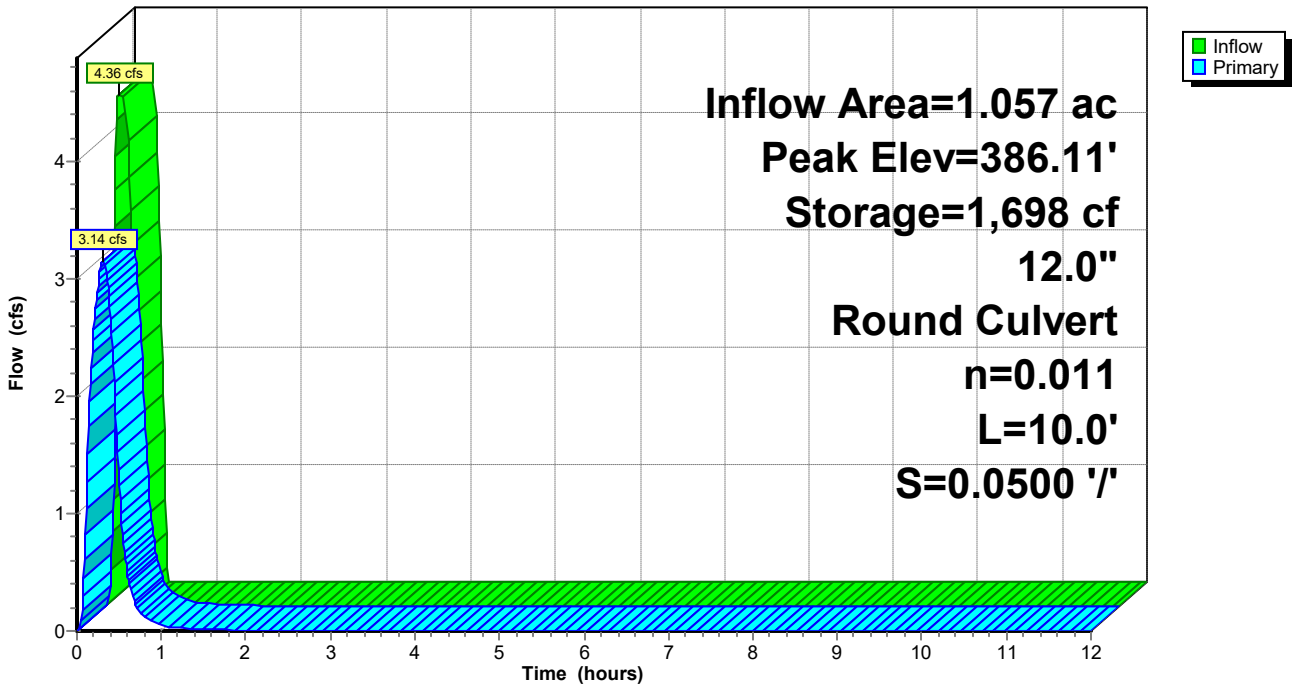
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.14 cfs @ 0.31 hrs HW=386.11' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.14 cfs @ 4.00 fps)

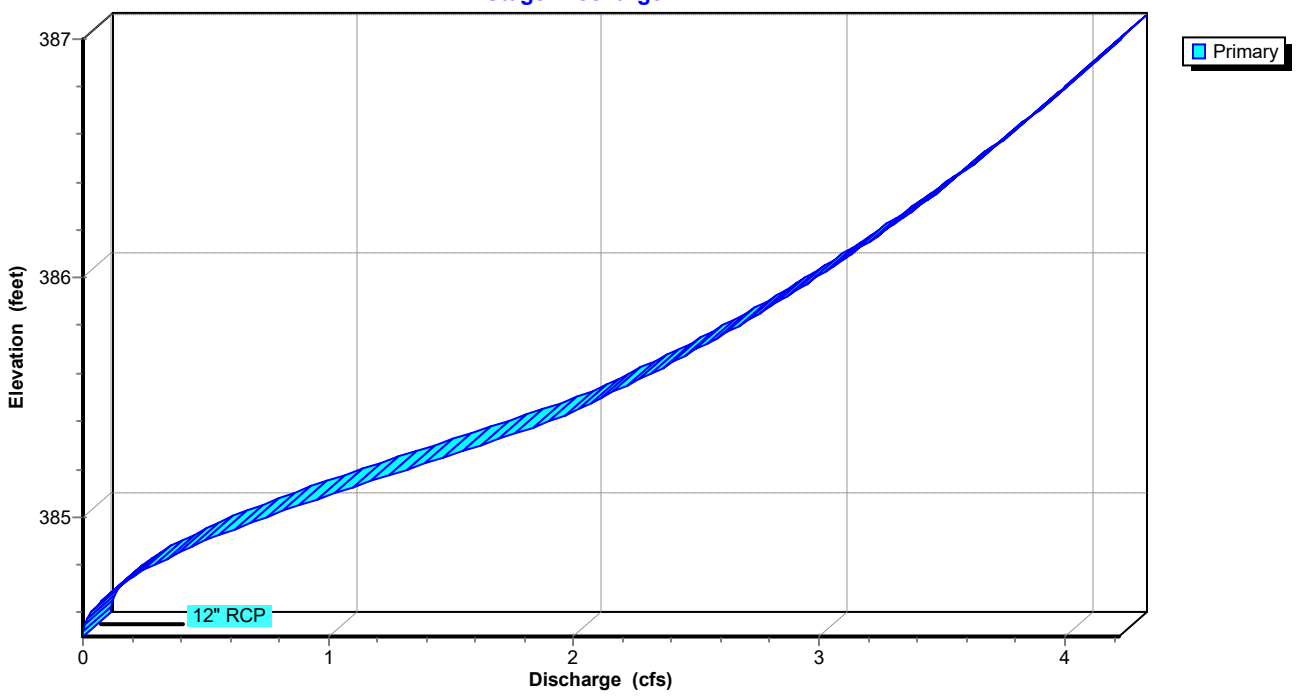
Pond 3P: DETENTION POND

Hydrograph

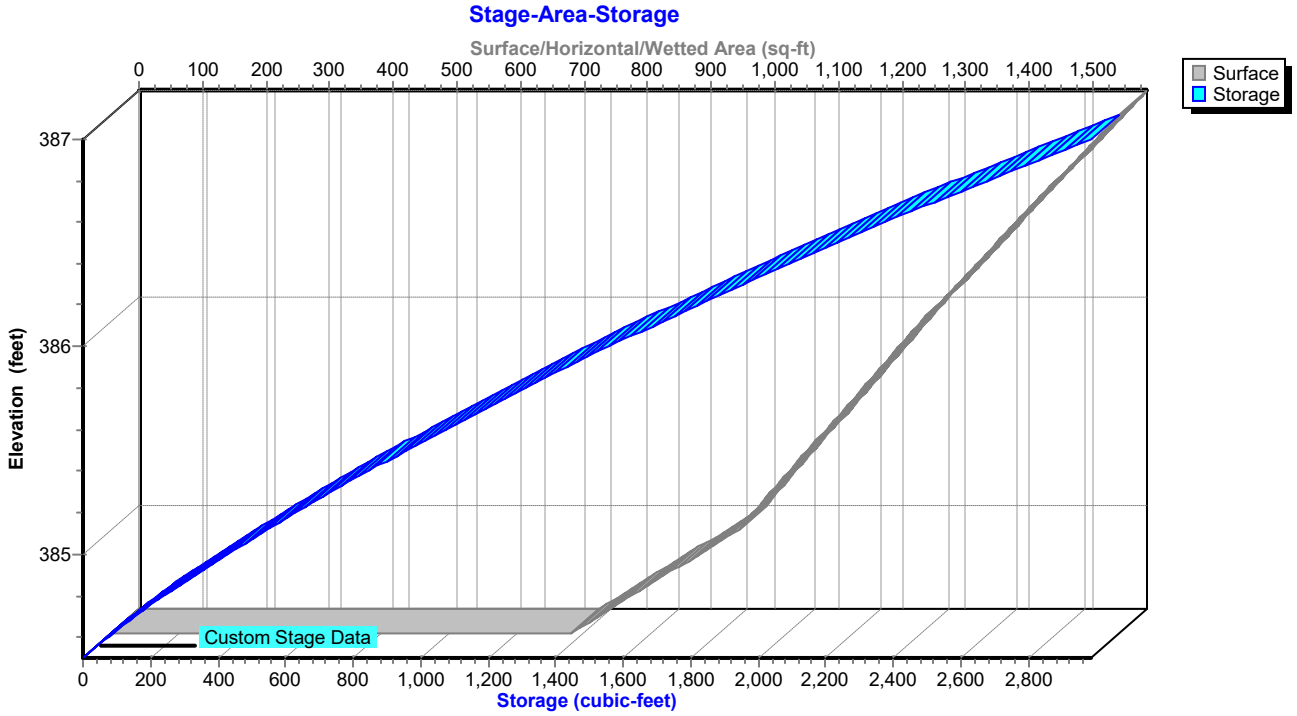


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**600**	**385.17**	**1.23**
1.00	0.00	90	384.62	0.05
1.50	0.00	44	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	16	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=1.07"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=4.30 cfs 0.095 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.20"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=4.79 cfs 0.106 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.27' Max Vel=6.00 fps Inflow=4.79 cfs 0.106 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=4.80 cfs 0.106 af

Pond 3P: DETENTION POND Peak Elev=386.27' Storage=1,914 cf Inflow=4.80 cfs 0.106 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.37 cfs 0.106 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.200 af Average Runoff Depth = 1.14"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

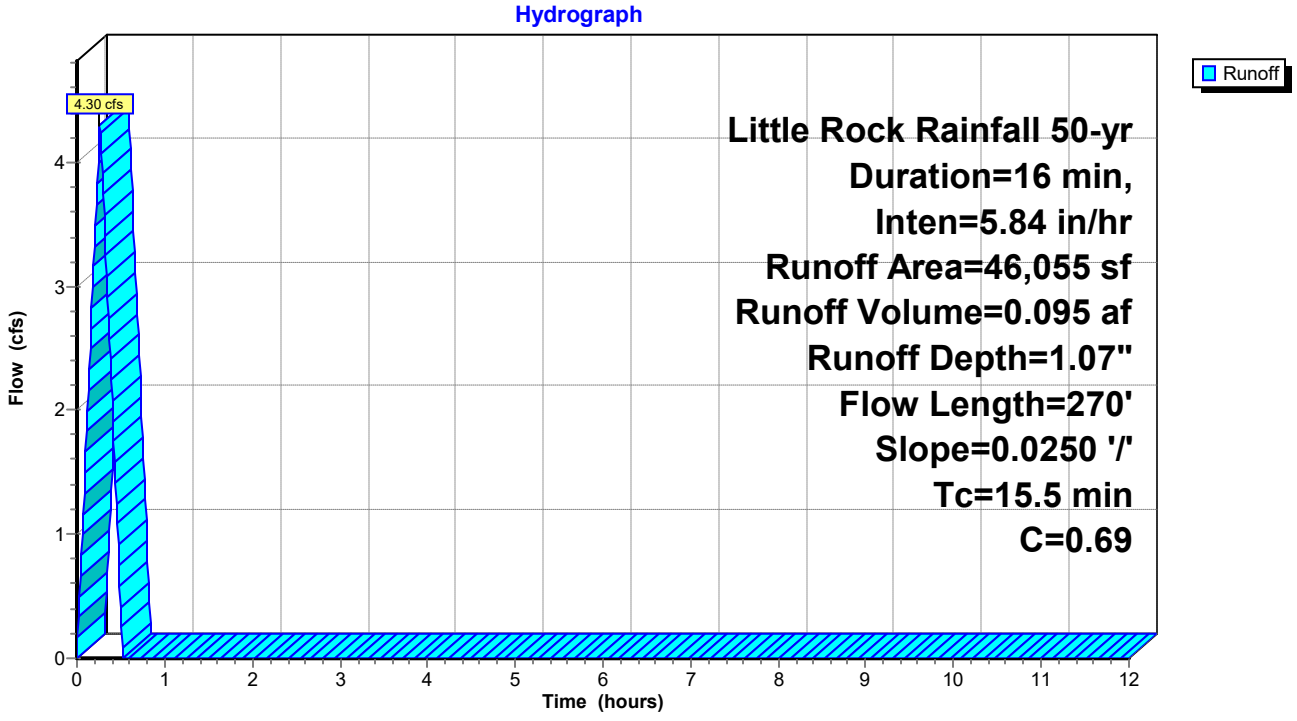
Runoff = 4.30 cfs @ 0.26 hrs, Volume= 0.095 af, Depth= 1.07"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 50-yr Duration=16 min, Inten=5.84 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.66	5.20	0.00	10.30	0.00
0.20	**3.33**	5.30	0.00	10.40	0.00
0.30	**3.74**	5.40	0.00	10.50	0.00
0.40	2.08	5.50	0.00	10.60	0.00
0.50	0.42	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

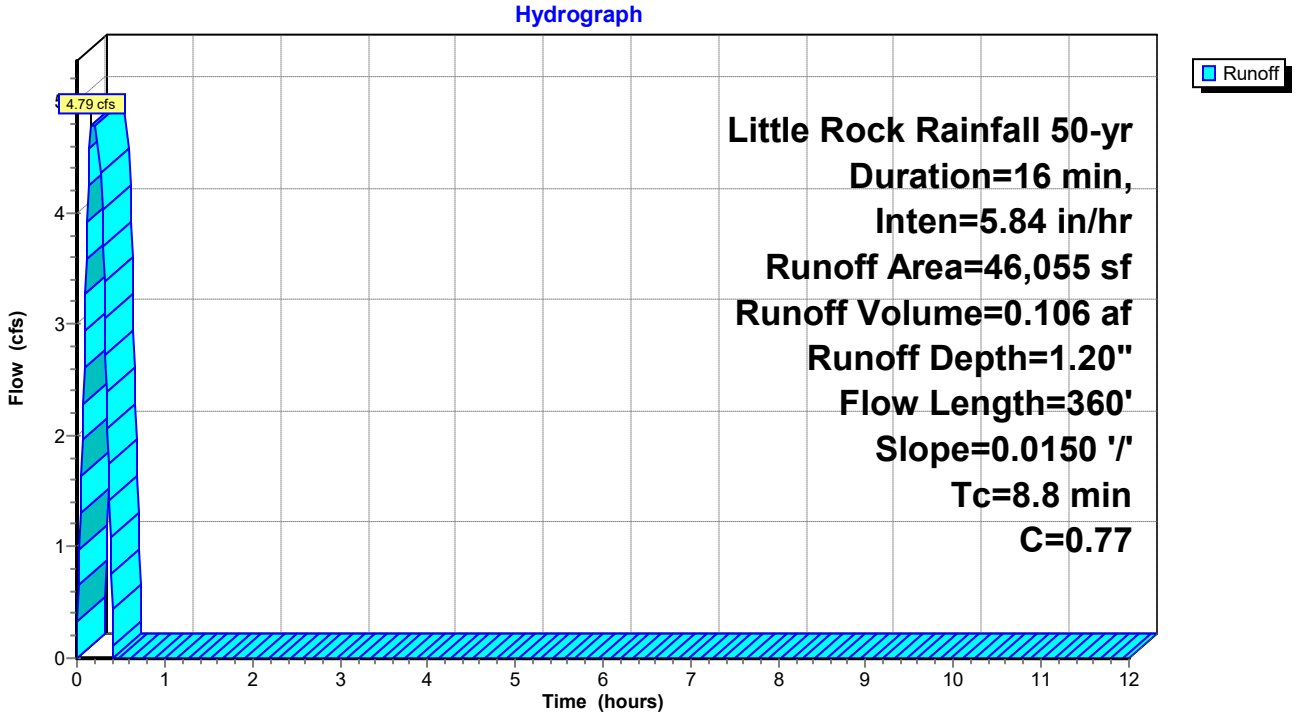
Runoff = 4.79 cfs @ 0.15 hrs, Volume= 0.106 af, Depth= 1.20"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 50-yr Duration=16 min, Inten=5.84 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**3.27**	5.20	0.00	10.30	0.00
0.20	**4.79**	5.30	0.00	10.40	0.00
0.30	3.70	5.40	0.00	10.50	0.00
0.40	0.44	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.20" for 50-yr event
Inflow = 4.79 cfs @ 0.15 hrs, Volume= 0.106 af
Outflow = 4.80 cfs @ 0.16 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

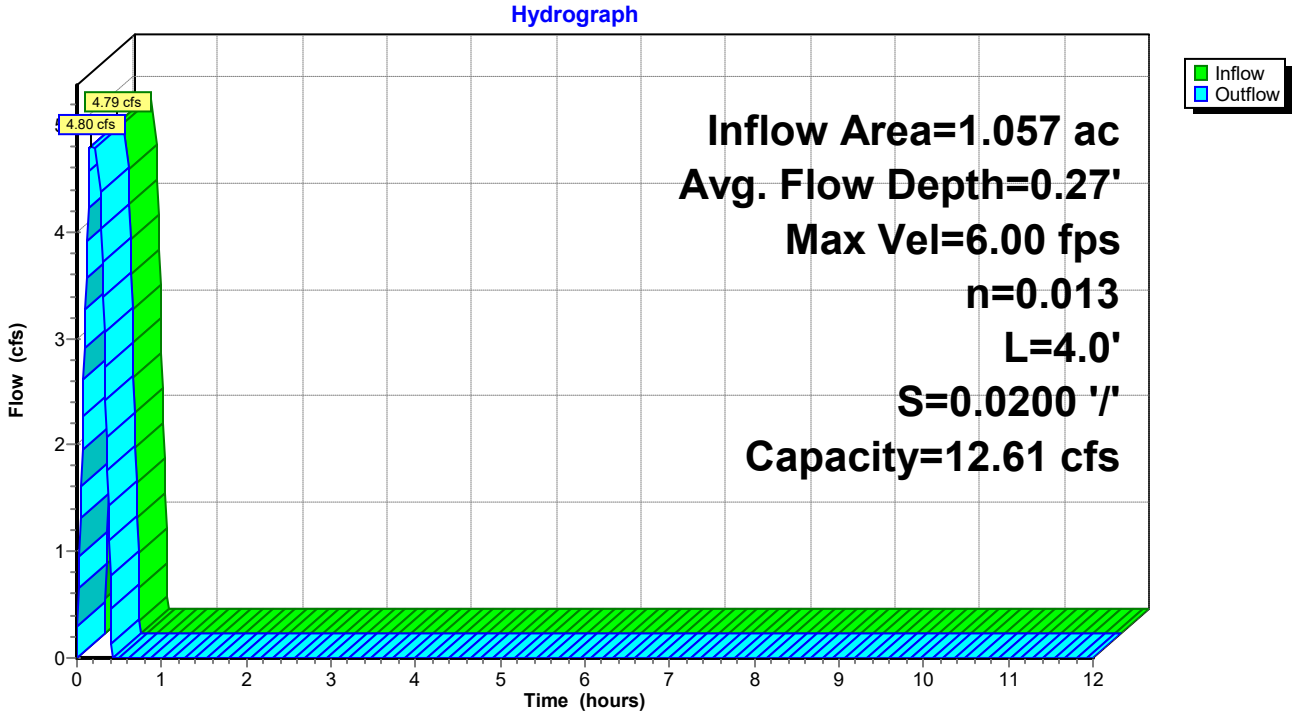
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.00 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.77 fps, Avg. Travel Time= 0.0 min

Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.27' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

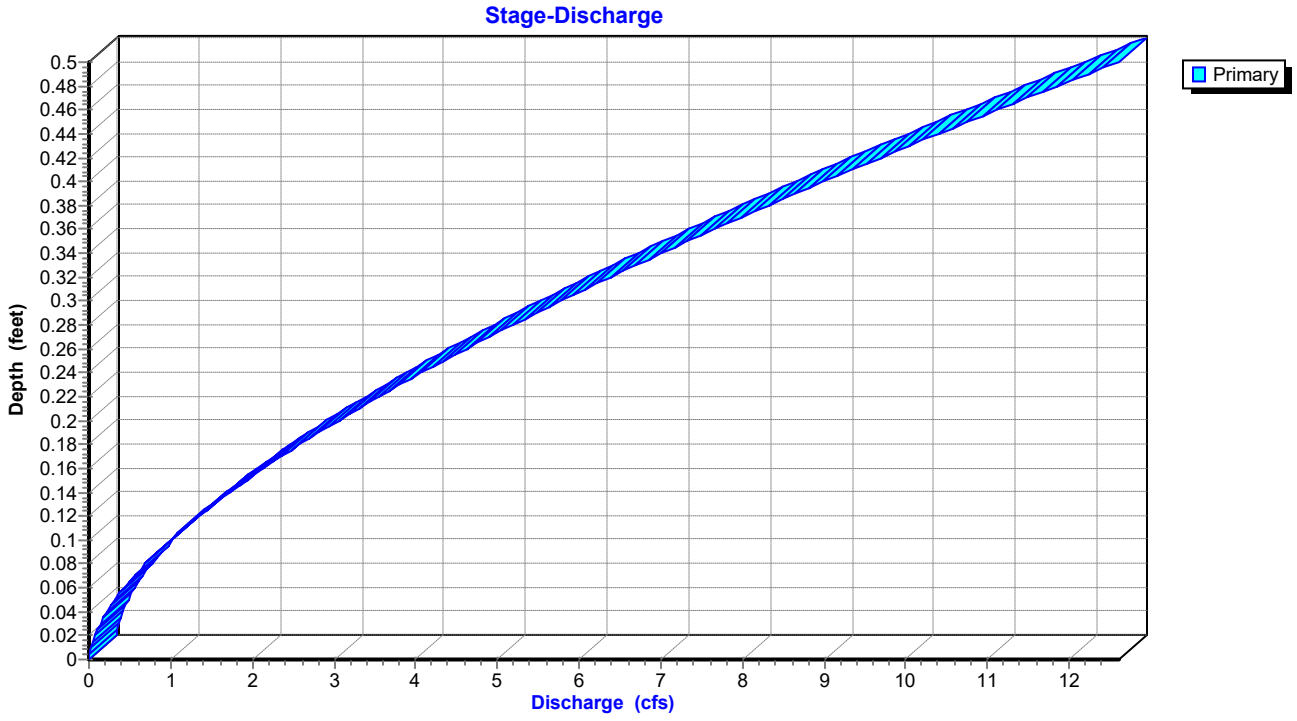
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



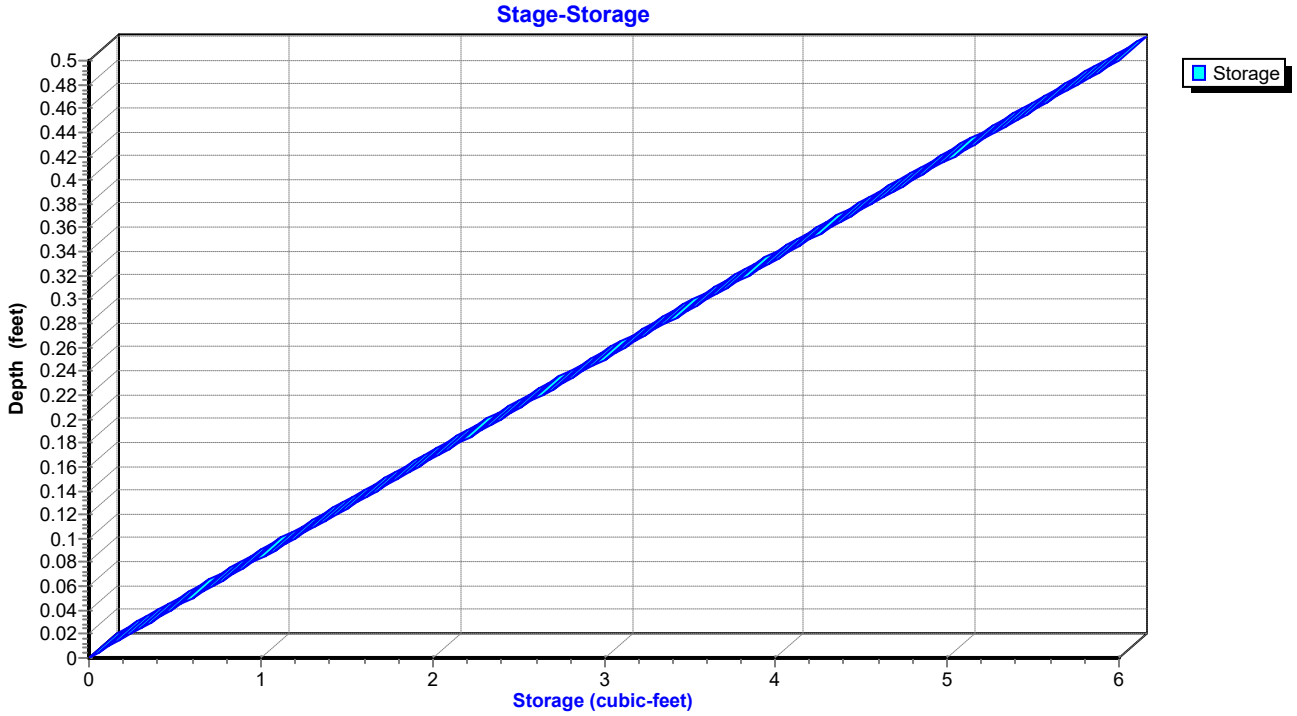
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.20" for 50-yr event
Inflow = 4.80 cfs @ 0.16 hrs, Volume= 0.106 af
Outflow = 3.37 cfs @ 0.31 hrs, Volume= 0.106 af, Atten= 30%, Lag= 9.0 min
Primary = 3.37 cfs @ 0.31 hrs, Volume= 0.106 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.27' @ 0.31 hrs Surf.Area= 1,358 sf Storage= 1,914 cf

Plug-Flow detention time= 9.9 min calculated for 0.106 af (100% of inflow)
Center-of-Mass det. time= 10.3 min (22.7 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

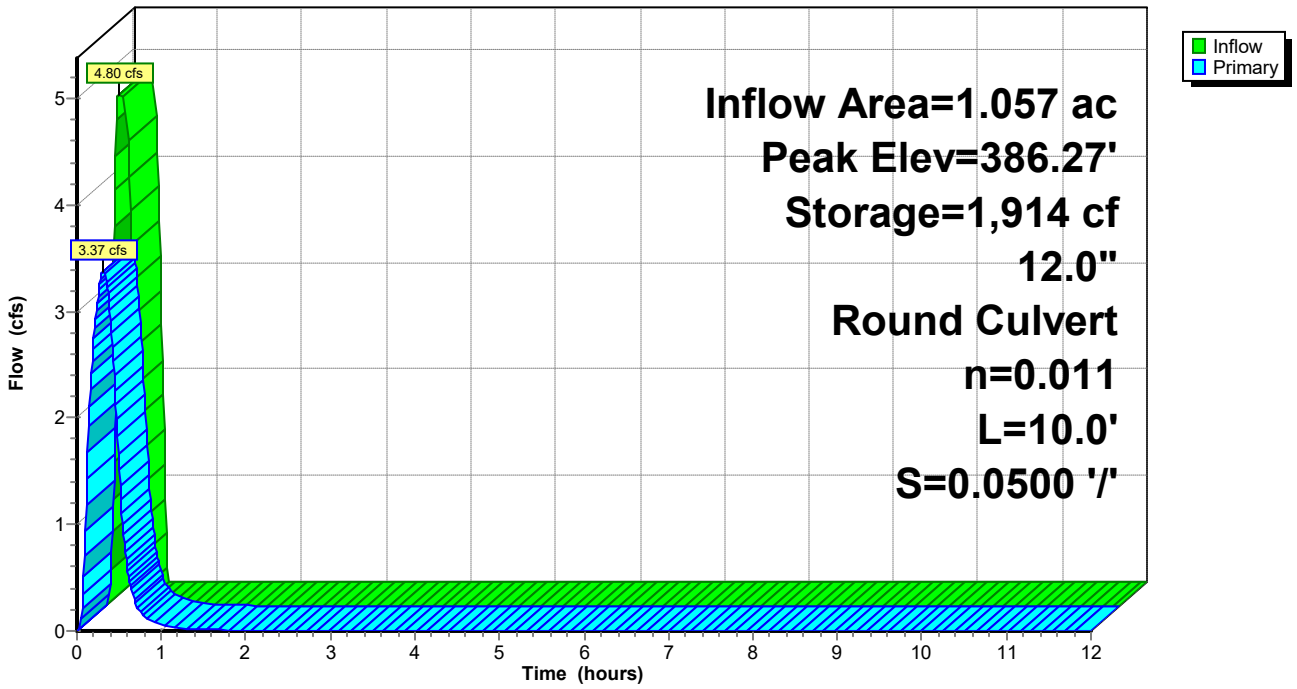
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.37 cfs @ 0.31 hrs HW=386.27' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.37 cfs @ 4.29 fps)

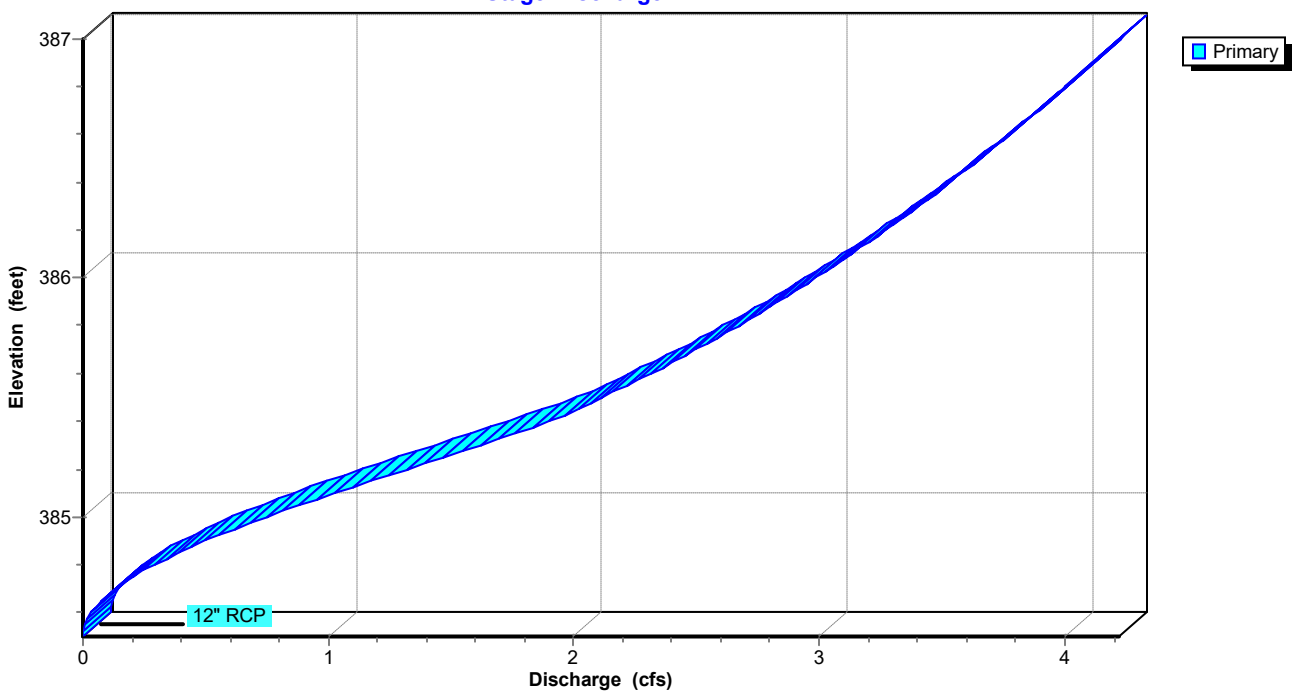
Pond 3P: DETENTION POND

Hydrograph

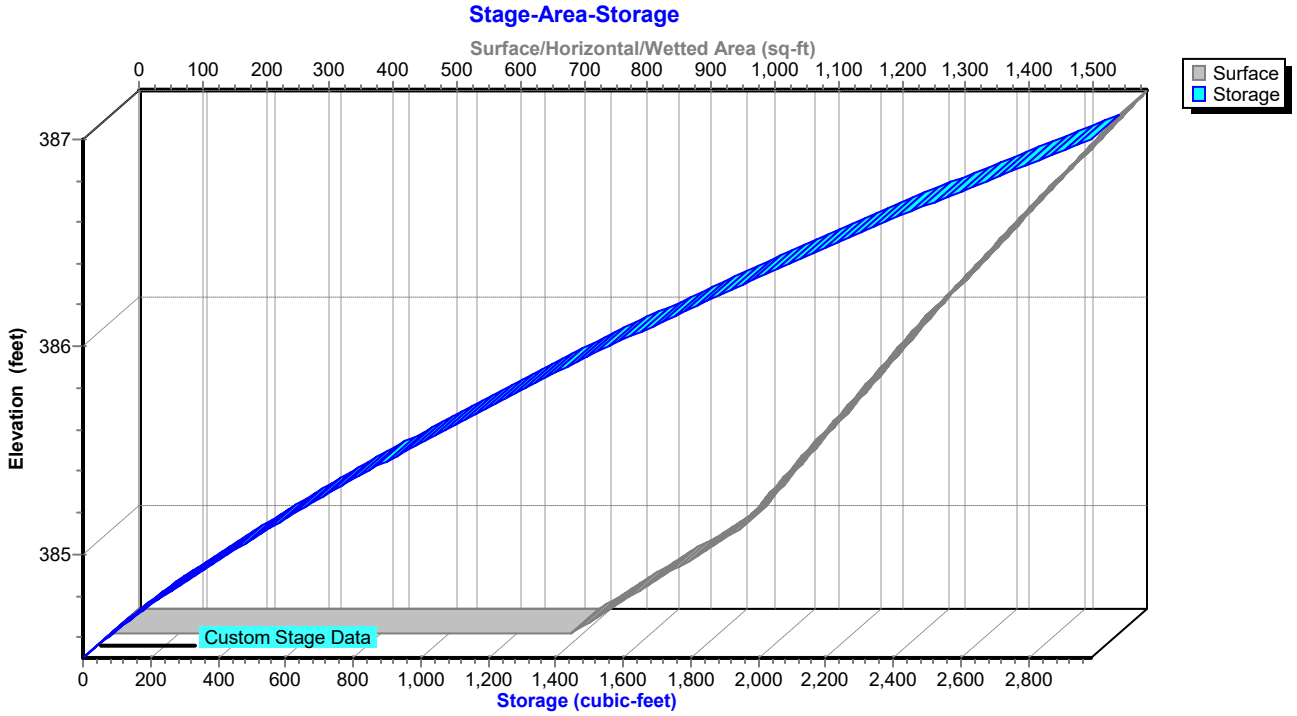


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**697**	**385.26**	**1.51**
1.00	0.00	93	384.62	0.05
1.50	0.00	45	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	17	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	4	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	1	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	0	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

Time span=0.00-12.00 hrs, dt=0.01 hrs, 1201 points
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: PRE-DEVELOPMENT Runoff Area=46,055 sf 0.00% Impervious Runoff Depth=1.16"
Flow Length=270' Slope=0.0250 '/' Tc=15.5 min C=0.69 Runoff=4.65 cfs 0.102 af

Subcatchment 2S: POST-DEVELOPMENT Runoff Area=46,055 sf 63.15% Impervious Runoff Depth=1.30"
Flow Length=360' Slope=0.0150 '/' Tc=8.8 min C=0.77 Runoff=5.18 cfs 0.114 af

Reach 4R: CURB CUT WIER Avg. Flow Depth=0.28' Max Vel=6.18 fps Inflow=5.18 cfs 0.114 af
n=0.013 L=4.0' S=0.0200 '/' Capacity=12.61 cfs Outflow=5.19 cfs 0.114 af

Pond 3P: DETENTION POND Peak Elev=386.41' Storage=2,110 cf Inflow=5.19 cfs 0.114 af
12.0" Round Culvert n=0.011 L=10.0' S=0.0500 '/' Outflow=3.55 cfs 0.114 af

Total Runoff Area = 2.115 ac Runoff Volume = 0.216 af Average Runoff Depth = 1.23"
68.43% Pervious = 1.447 ac 31.57% Impervious = 0.668 ac

Summary for Subcatchment 1S: PRE-DEVELOPMENT

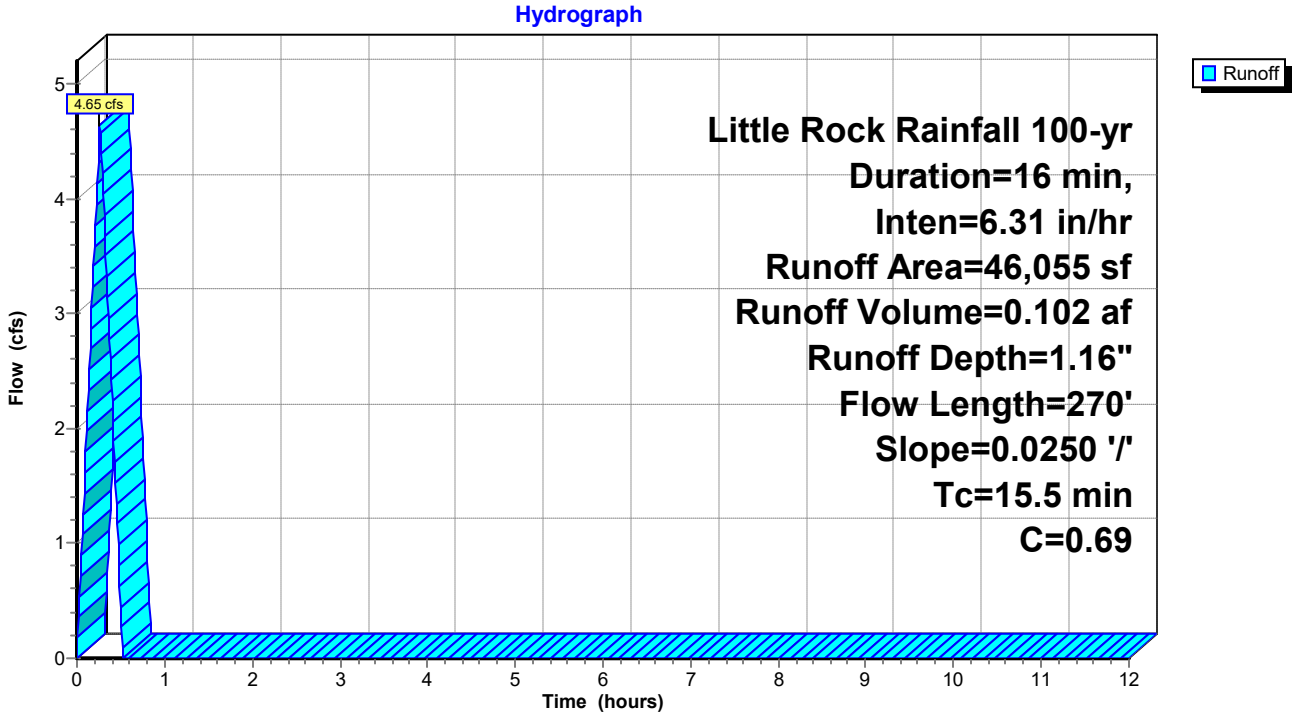
Runoff = 4.65 cfs @ 0.26 hrs, Volume= 0.102 af, Depth= 1.16"

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 100-yr Duration=16 min, Inten=6.31 in/hr

Area (sf)	C	Description
31,035	0.65	GRAVEL PARKING
15,020	0.77	SHRUB POOR CONDITION BRUSH
46,055	0.69	Weighted Average
46,055		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	270	0.0250	0.29		**Sheet Flow, SHEET FLOW SURFACE** Range n= 0.130 P2= 4.19"

Subcatchment 1S: PRE-DEVELOPMENT



Hydrograph for Subcatchment 1S: PRE-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	1.80	5.20	0.00	10.30	0.00
0.20	**3.59**	5.30	0.00	10.40	0.00
0.30	**4.04**	5.40	0.00	10.50	0.00
0.40	2.25	5.50	0.00	10.60	0.00
0.50	0.45	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Subcatchment 2S: POST-DEVELOPMENT

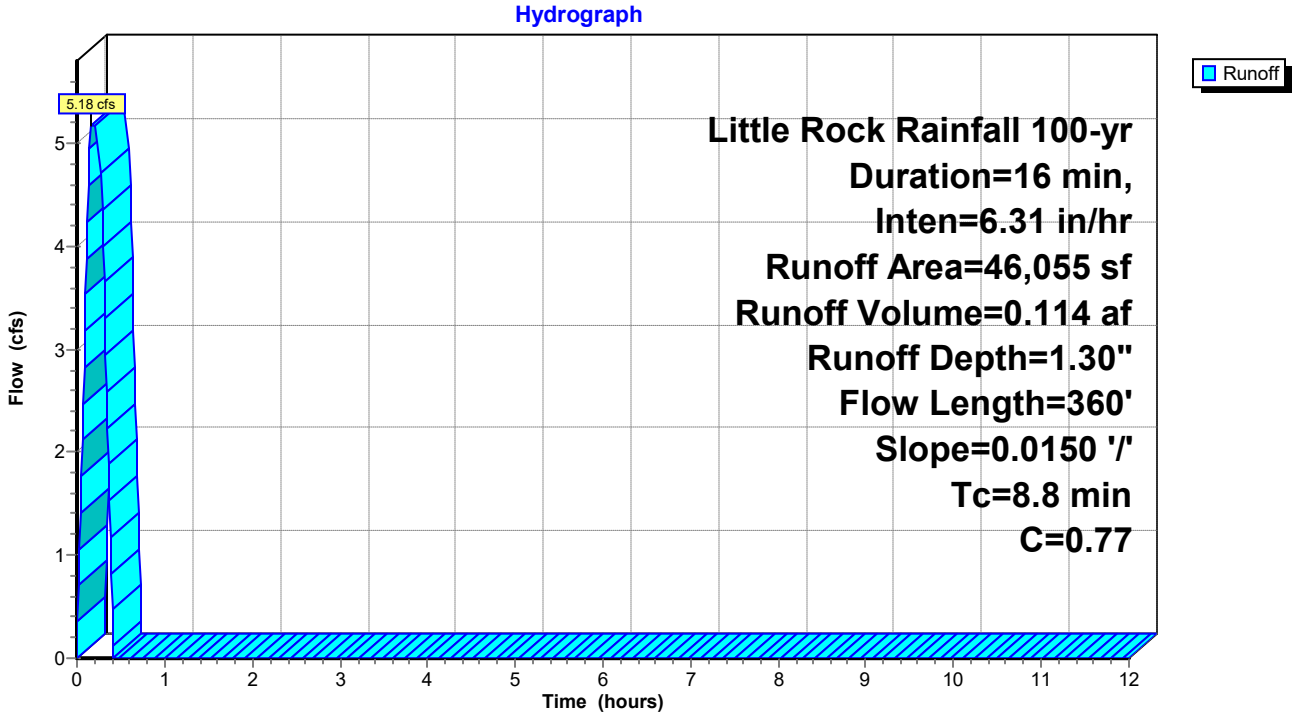
Runoff = 5.18 cfs @ 0.15 hrs, Volume= 0.114 af, Depth= 1.30"
Routed to Reach 4R : CURB CUT WIER

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Little Rock Rainfall 100-yr Duration=16 min, Inten=6.31 in/hr

Area (sf)	C	Description
22,479	0.95	ASPHALT SURFACE
6,603	0.97	ROOF TOP
16,973	0.46	GRASS LANDSCAPING
46,055	0.77	Weighted Average
16,973		36.85% Pervious Area
29,082		63.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	40	0.0150	0.10		**Sheet Flow, GRASS** Grass: Dense n= 0.240 P2= 4.19"
2.1	320	0.0150	2.49		**Shallow Concentrated Flow, PAVEMENT** Paved Kv= 20.3 fps
8.8	360	Total			

Subcatchment 2S: POST-DEVELOPMENT



Hydrograph for Subcatchment 2S: POST-DEVELOPMENT

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	5.10	0.00	10.20	0.00
0.10	**3.53**	5.20	0.00	10.30	0.00
0.20	**5.18**	5.30	0.00	10.40	0.00
0.30	4.00	5.40	0.00	10.50	0.00
0.40	0.47	5.50	0.00	10.60	0.00
0.50	0.00	5.60	0.00	10.70	0.00
0.60	0.00	5.70	0.00	10.80	0.00
0.70	0.00	5.80	0.00	10.90	0.00
0.80	0.00	5.90	0.00	11.00	0.00
0.90	0.00	6.00	0.00	11.10	0.00
1.00	0.00	6.10	0.00	11.20	0.00
1.10	0.00	6.20	0.00	11.30	0.00
1.20	0.00	6.30	0.00	11.40	0.00
1.30	0.00	6.40	0.00	11.50	0.00
1.40	0.00	6.50	0.00	11.60	0.00
1.50	0.00	6.60	0.00	11.70	0.00
1.60	0.00	6.70	0.00	11.80	0.00
1.70	0.00	6.80	0.00	11.90	0.00
1.80	0.00	6.90	0.00	12.00	0.00
1.90	0.00	7.00	0.00		
2.00	0.00	7.10	0.00		
2.10	0.00	7.20	0.00		
2.20	0.00	7.30	0.00		
2.30	0.00	7.40	0.00		
2.40	0.00	7.50	0.00		
2.50	0.00	7.60	0.00		
2.60	0.00	7.70	0.00		
2.70	0.00	7.80	0.00		
2.80	0.00	7.90	0.00		
2.90	0.00	8.00	0.00		
3.00	0.00	8.10	0.00		
3.10	0.00	8.20	0.00		
3.20	0.00	8.30	0.00		
3.30	0.00	8.40	0.00		
3.40	0.00	8.50	0.00		
3.50	0.00	8.60	0.00		
3.60	0.00	8.70	0.00		
3.70	0.00	8.80	0.00		
3.80	0.00	8.90	0.00		
3.90	0.00	9.00	0.00		
4.00	0.00	9.10	0.00		
4.10	0.00	9.20	0.00		
4.20	0.00	9.30	0.00		
4.30	0.00	9.40	0.00		
4.40	0.00	9.50	0.00		
4.50	0.00	9.60	0.00		
4.60	0.00	9.70	0.00		
4.70	0.00	9.80	0.00		
4.80	0.00	9.90	0.00		
4.90	0.00	10.00	0.00		
5.00	0.00	10.10	0.00		

Summary for Reach 4R: CURB CUT WIER

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.30" for 100-yr event
Inflow = 5.18 cfs @ 0.15 hrs, Volume= 0.114 af
Outflow = 5.19 cfs @ 0.16 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.6 min
Routed to Pond 3P : DETENTION POND

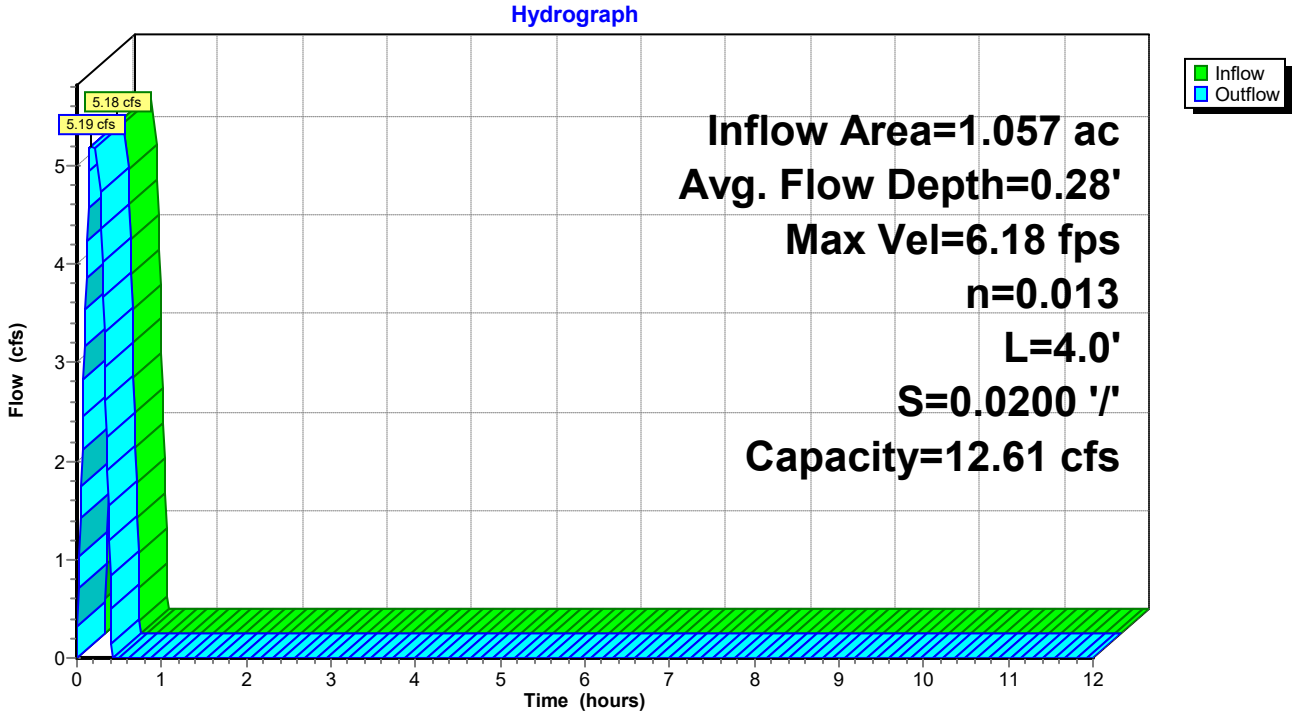
Routing by Stor-Ind+Trans method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.18 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.91 fps, Avg. Travel Time= 0.0 min

Peak Storage= 3 cf @ 0.16 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 3.00'
Bank-Full Depth= 0.50' Flow Area= 1.5 sf, Capacity= 12.61 cfs

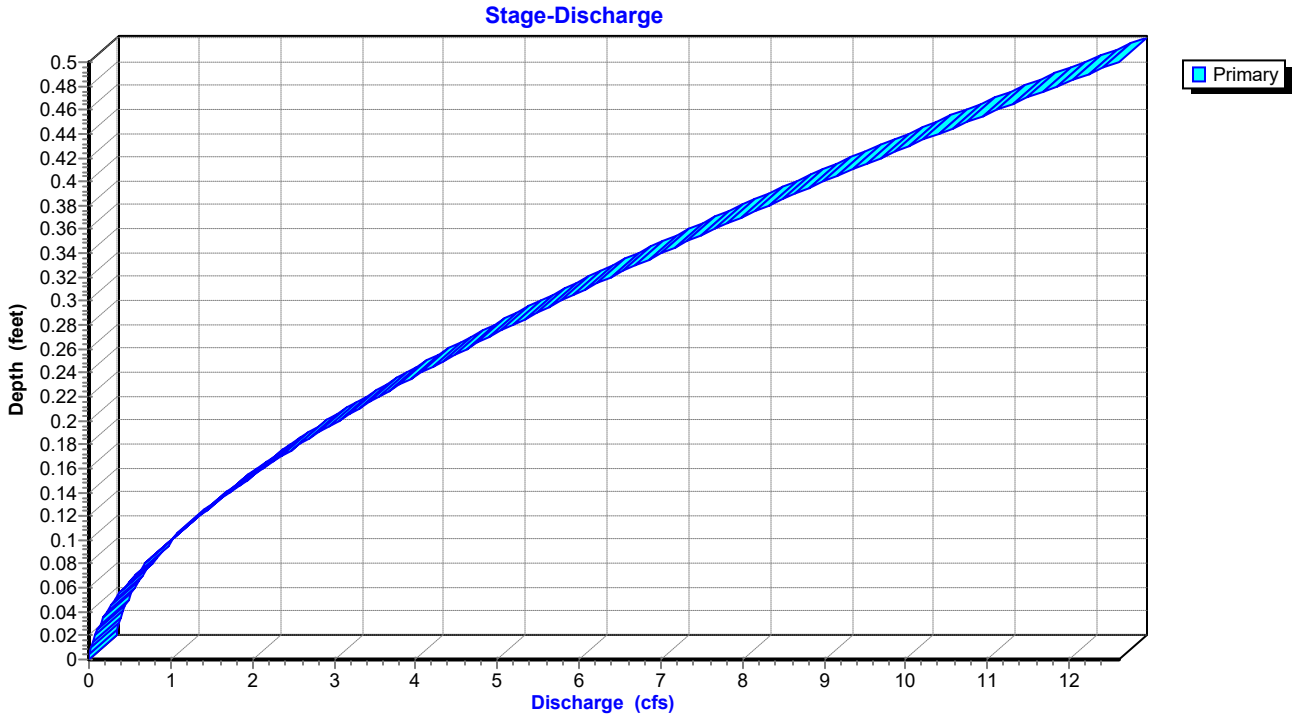
3.00' x 0.50' deep channel, n= 0.013 Concrete, trowel finish
Length= 4.0' Slope= 0.0200 '/'
Inlet Invert= 387.25', Outlet Invert= 387.17'



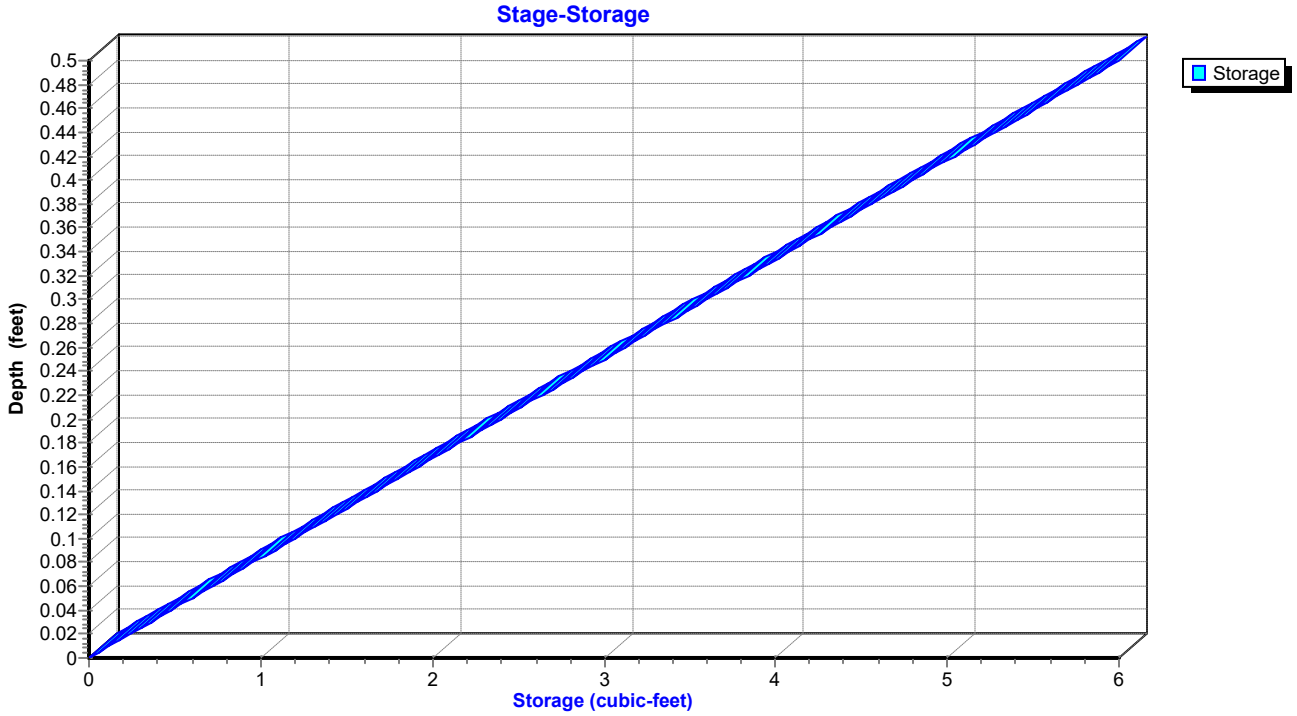
Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Reach 4R: CURB CUT WIER



Hydrograph for Reach 4R: CURB CUT WIER

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	**0.00**	**0**	**387.25**	**0.00**
0.50	**0.00**	**0**	**387.25**	**0.00**
1.00	0.00	0	387.25	0.00
1.50	0.00	0	387.25	0.00
2.00	0.00	0	387.25	0.00
2.50	0.00	0	387.25	0.00
3.00	0.00	0	387.25	0.00
3.50	0.00	0	387.25	0.00
4.00	0.00	0	387.25	0.00
4.50	0.00	0	387.25	0.00
5.00	0.00	0	387.25	0.00
5.50	0.00	0	387.25	0.00
6.00	0.00	0	387.25	0.00
6.50	0.00	0	387.25	0.00
7.00	0.00	0	387.25	0.00
7.50	0.00	0	387.25	0.00
8.00	0.00	0	387.25	0.00
8.50	0.00	0	387.25	0.00
9.00	0.00	0	387.25	0.00
9.50	0.00	0	387.25	0.00
10.00	0.00	0	387.25	0.00
10.50	0.00	0	387.25	0.00
11.00	0.00	0	387.25	0.00
11.50	0.00	0	387.25	0.00
12.00	0.00	0	387.25	0.00

Stage-Discharge for Reach 4R: CURB CUT WIER

Elevation (feet)	Velocity (ft/sec)	Discharge (cfs)
387.25	0.00	0.00
387.26	0.75	0.02
387.27	1.18	0.07
387.28	1.54	0.14
387.29	1.86	0.22
387.30	2.15	0.32
387.31	2.41	0.43
387.32	2.66	0.56
387.33	2.90	0.70
387.34	3.12	0.84
387.35	3.34	1.00
387.36	3.54	1.17
387.37	3.74	1.35
387.38	3.92	1.53
387.39	4.11	1.72
387.40	4.28	1.93
387.41	4.45	2.14
387.42	4.62	2.36
387.43	4.78	2.58
387.44	4.93	2.81
387.45	5.09	3.05
387.46	5.23	3.30
387.47	5.38	3.55
387.48	5.52	3.81
387.49	5.65	4.07
387.50	5.79	4.34
387.51	5.92	4.62
387.52	6.05	4.90
387.53	6.17	5.19
387.54	6.30	5.48
387.55	6.42	5.77
387.56	6.53	6.08
387.57	6.65	6.38
387.58	6.76	6.69
387.59	6.87	7.01
387.60	6.98	7.33
387.61	7.09	7.65
387.62	7.19	7.98
387.63	7.30	8.32
387.64	7.40	8.65
387.65	7.50	9.00
387.66	7.59	9.34
387.67	7.69	9.69
387.68	7.79	10.04
387.69	7.88	10.40
387.70	7.97	10.76
387.71	8.06	11.12
387.72	8.15	11.49
387.73	8.24	11.86
387.74	8.32	12.23
387.75	**8.41**	**12.61**

Stage-Area-Storage for Reach 4R: CURB CUT WIER

Elevation (feet)	End-Area (sq-ft)	Storage (cubic-feet)
387.25	0.0	0
387.26	0.0	0
387.27	0.1	0
387.28	0.1	0
387.29	0.1	0
387.30	0.2	1
387.31	0.2	1
387.32	0.2	1
387.33	0.2	1
387.34	0.3	1
387.35	0.3	1
387.36	0.3	1
387.37	0.4	1
387.38	0.4	2
387.39	0.4	2
387.40	0.4	2
387.41	0.5	2
387.42	0.5	2
387.43	0.5	2
387.44	0.6	2
387.45	0.6	2
387.46	0.6	3
387.47	0.7	3
387.48	0.7	3
387.49	0.7	3
387.50	0.8	3
387.51	0.8	3
387.52	0.8	3
387.53	0.8	3
387.54	0.9	3
387.55	0.9	4
387.56	0.9	4
387.57	1.0	4
387.58	1.0	4
387.59	1.0	4
387.60	1.1	4
387.61	1.1	4
387.62	1.1	4
387.63	1.1	5
387.64	1.2	5
387.65	1.2	5
387.66	1.2	5
387.67	1.3	5
387.68	1.3	5
387.69	1.3	5
387.70	1.4	5
387.71	1.4	6
387.72	1.4	6
387.73	1.4	6
387.74	1.5	6
387.75	**1.5**	**6**

Summary for Pond 3P: DETENTION POND

Inflow Area = 1.057 ac, 63.15% Impervious, Inflow Depth = 1.30" for 100-yr event
Inflow = 5.19 cfs @ 0.16 hrs, Volume= 0.114 af
Outflow = 3.55 cfs @ 0.31 hrs, Volume= 0.114 af, Atten= 32%, Lag= 9.2 min
Primary = 3.55 cfs @ 0.31 hrs, Volume= 0.114 af

Routing by Stor-Ind method, Time Span= 0.00-12.00 hrs, dt= 0.01 hrs
Peak Elev= 386.41' @ 0.31 hrs Surf.Area= 1,402 sf Storage= 2,110 cf

Plug-Flow detention time= 10.4 min calculated for 0.114 af (100% of inflow)
Center-of-Mass det. time= 10.4 min (22.8 - 12.4)

Volume	Invert	Avail.Storage	Storage Description
#1	384.50'	2,986 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

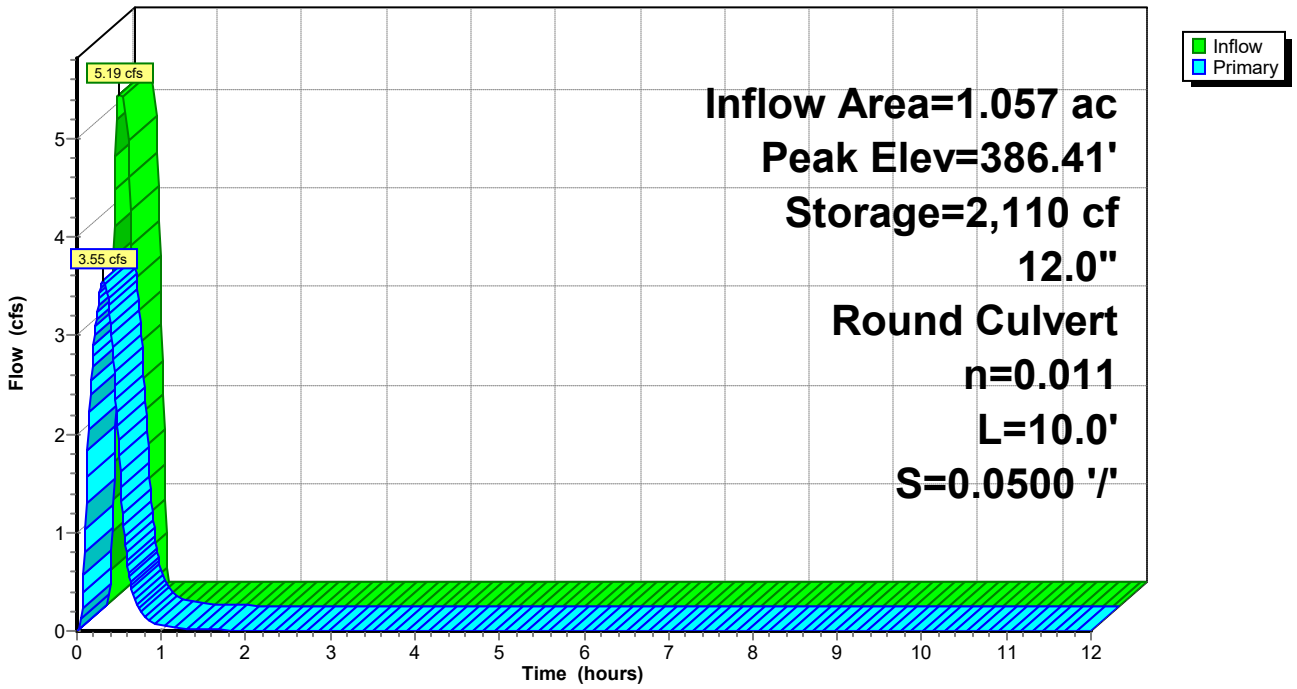
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
384.50	724	0	0
385.00	986	428	428
386.00	1,273	1,130	1,557
387.00	1,585	1,429	2,986

Device	Routing	Invert	Outlet Devices
#1	Primary	384.50'	**12.0" Round 12" RCP** L= 10.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 384.50' / 384.00' S= 0.0500 '/' Cc= 0.900 n= 0.011 Concrete pipe, straight & clean, Flow Area= 0.79 sf

Primary OutFlow Max=3.55 cfs @ 0.31 hrs HW=386.41' (Free Discharge)
↑**1=12" RCP** (Inlet Controls 3.55 cfs @ 4.52 fps)

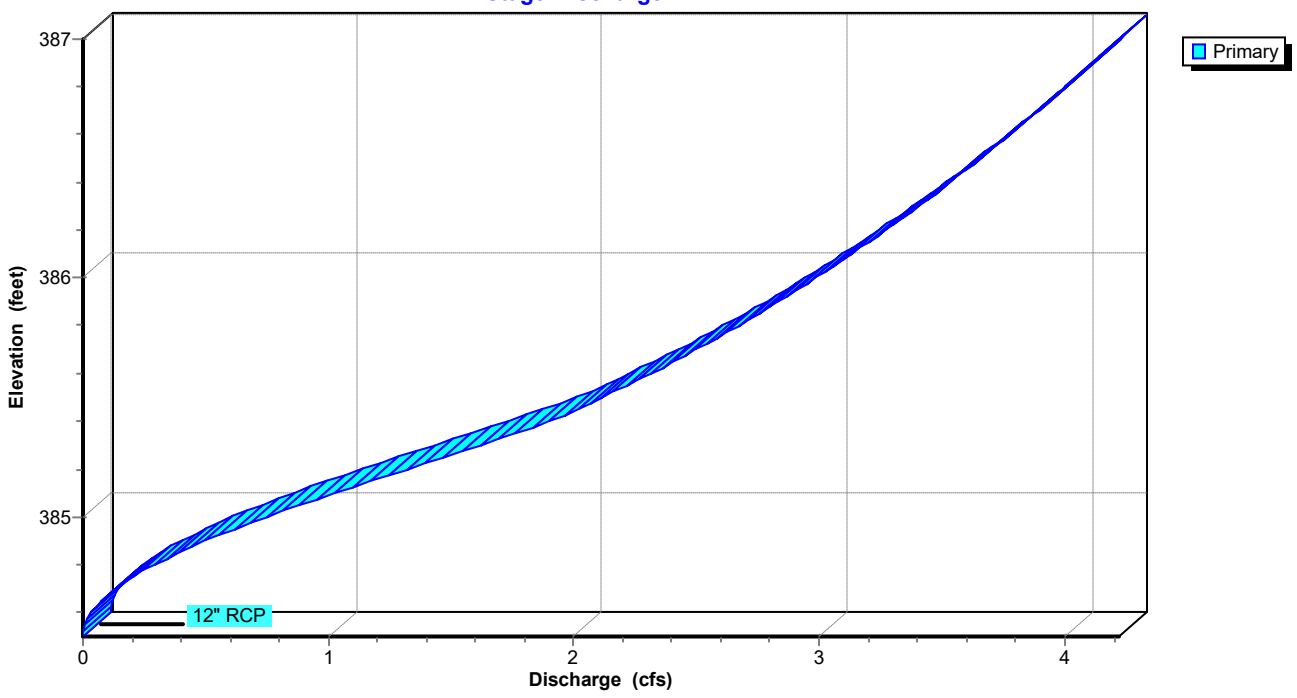
Pond 3P: DETENTION POND

Hydrograph

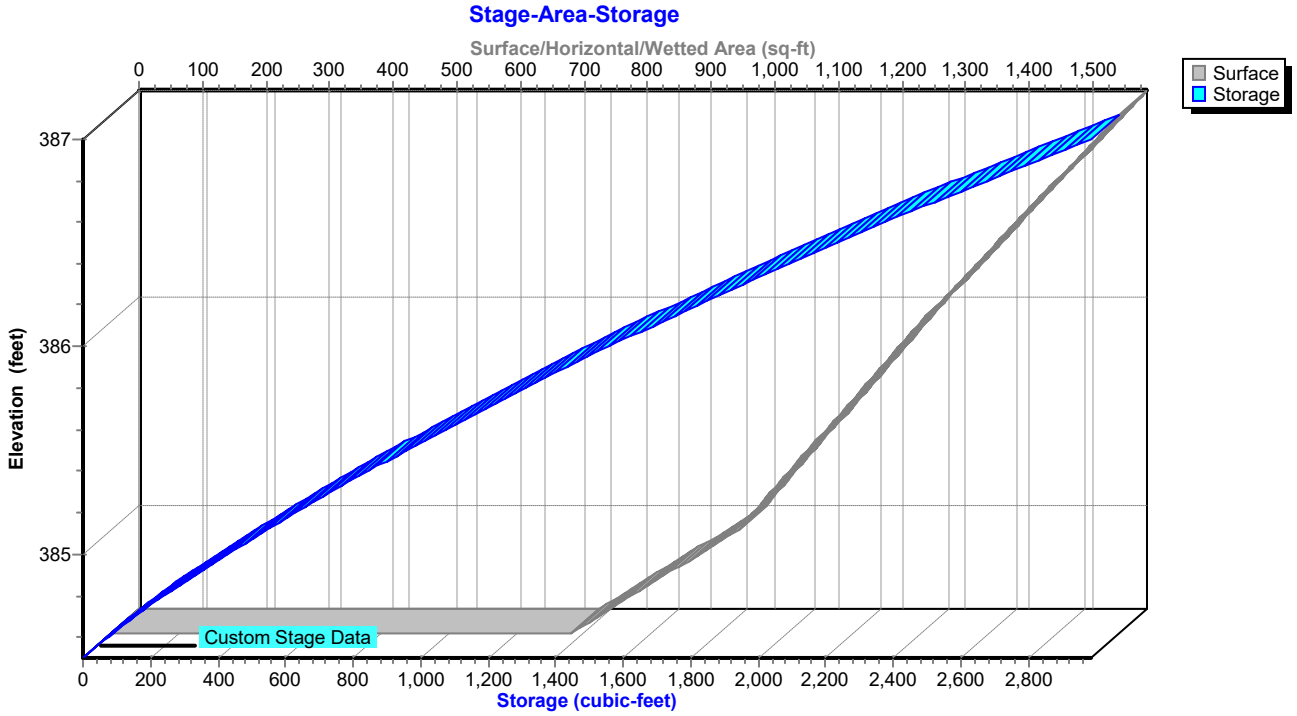


Pond 3P: DETENTION POND

Stage-Discharge



Pond 3P: DETENTION POND



Hydrograph for Pond 3P: DETENTION POND

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**0**	**384.50**	**0.00**
0.50	**0.00**	**797**	**385.36**	**1.78**
1.00	0.00	97	384.63	0.06
1.50	0.00	46	384.56	0.01
2.00	0.00	29	384.54	0.01
2.50	0.00	21	384.53	0.00
3.00	0.00	17	384.52	0.00
3.50	0.00	13	384.52	0.00
4.00	0.00	11	384.51	0.00
4.50	0.00	9	384.51	0.00
5.00	0.00	7	384.51	0.00
5.50	0.00	6	384.51	0.00
6.00	0.00	5	384.51	0.00
6.50	0.00	4	384.50	0.00
7.00	0.00	3	384.50	0.00
7.50	0.00	2	384.50	0.00
8.00	0.00	2	384.50	0.00
8.50	0.00	2	384.50	0.00
9.00	0.00	1	384.50	0.00
9.50	0.00	1	384.50	0.00
10.00	0.00	1	384.50	0.00
10.50	0.00	1	384.50	0.00
11.00	0.00	1	384.50	0.00
11.50	0.00	0	384.50	0.00
12.00	0.00	0	384.50	0.00

Stage-Discharge for Pond 3P: DETENTION POND

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
384.50	0.00	385.52	2.15	386.54	3.70
384.52	0.00	385.54	2.19	386.56	3.73
384.54	0.01	385.56	2.23	386.58	3.75
384.56	0.01	385.58	2.27	386.60	3.78
384.58	0.02	385.60	2.31	386.62	3.80
384.60	0.03	385.62	2.35	386.64	3.82
384.62	0.05	385.64	2.39	386.66	3.85
384.64	0.07	385.66	2.43	386.68	3.87
384.66	0.09	385.68	2.46	386.70	3.89
384.68	0.11	385.70	2.50	386.72	3.92
384.70	0.13	385.72	2.53	386.74	3.94
384.72	0.16	385.74	2.57	386.76	3.96
384.74	0.19	385.76	2.60	386.78	3.98
384.76	0.22	385.78	2.64	386.80	4.01
384.78	0.26	385.80	2.67	386.82	4.03
384.80	0.29	385.82	2.70	386.84	4.05
384.82	0.33	385.84	2.74	386.86	4.07
384.84	0.37	385.86	2.77	386.88	4.09
384.86	0.41	385.88	2.80	386.90	4.12
384.88	0.45	385.90	2.83	386.92	4.14
384.90	0.50	385.92	2.86	386.94	4.16
384.92	0.55	385.94	2.89	386.96	4.18
384.94	0.59	385.96	2.93	386.98	4.20
384.96	0.64	385.98	2.96	387.00	**4.22**
384.98	0.69	386.00	2.99		
385.00	0.75	386.02	3.02		
385.02	0.80	386.04	3.04		
385.04	0.85	386.06	3.07		
385.06	0.91	386.08	3.10		
385.08	0.97	386.10	3.13		
385.10	1.02	386.12	3.16		
385.12	1.08	386.14	3.19		
385.14	1.14	386.16	3.22		
385.16	1.20	386.18	3.24		
385.18	1.26	386.20	3.27		
385.20	1.32	386.22	3.30		
385.22	1.38	386.24	3.32		
385.24	1.44	386.26	3.35		
385.26	1.50	386.28	3.38		
385.28	1.56	386.30	3.40		
385.30	1.62	386.32	3.43		
385.32	1.68	386.34	3.46		
385.34	1.74	386.36	3.48		
385.36	1.79	386.38	3.51		
385.38	1.85	386.40	3.53		
385.40	1.90	386.42	3.56		
385.42	1.95	386.44	3.58		
385.44	2.00	386.46	3.61		
385.46	2.04	386.48	3.63		
385.48	2.08	386.50	3.66		
385.50	2.11	386.52	3.68		

Stage-Area-Storage for Pond 3P: DETENTION POND

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
384.50	724	0
384.55	750	37
384.60	776	75
384.65	803	114
384.70	829	155
384.75	855	197
384.80	881	241
384.85	907	285
384.90	934	332
384.95	960	379
385.00	986	428
385.05	1,000	477
385.10	1,015	528
385.15	1,029	579
385.20	1,043	630
385.25	1,058	683
385.30	1,072	736
385.35	1,086	790
385.40	1,101	845
385.45	1,115	900
385.50	1,130	956
385.55	1,144	1,013
385.60	1,158	1,071
385.65	1,173	1,129
385.70	1,187	1,188
385.75	1,201	1,248
385.80	1,216	1,308
385.85	1,230	1,369
385.90	1,244	1,431
385.95	1,259	1,494
386.00	1,273	1,557
386.05	1,289	1,621
386.10	1,304	1,686
386.15	1,320	1,751
386.20	1,335	1,818
386.25	1,351	1,885
386.30	1,367	1,953
386.35	1,382	2,022
386.40	1,398	2,091
386.45	1,413	2,161
386.50	1,429	2,233
386.55	1,445	2,304
386.60	1,460	2,377
386.65	1,476	2,450
386.70	1,491	2,525
386.75	1,507	2,600
386.80	1,523	2,675
386.85	1,538	2,752
386.90	1,554	2,829
386.95	1,569	2,907
387.00	**1,585**	**2,986**

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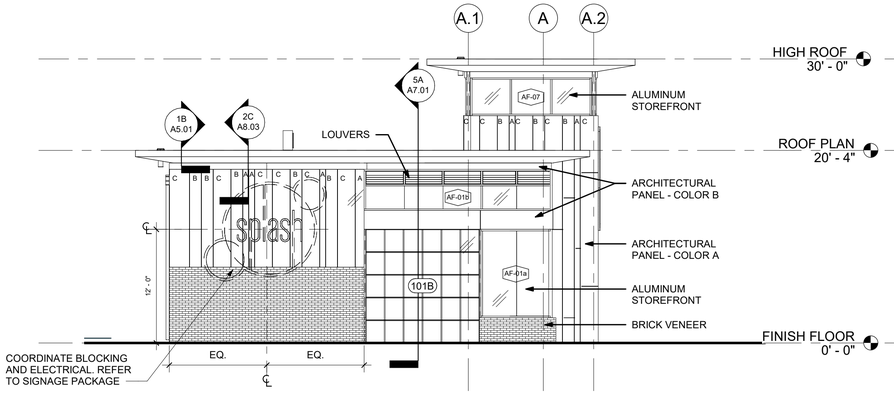
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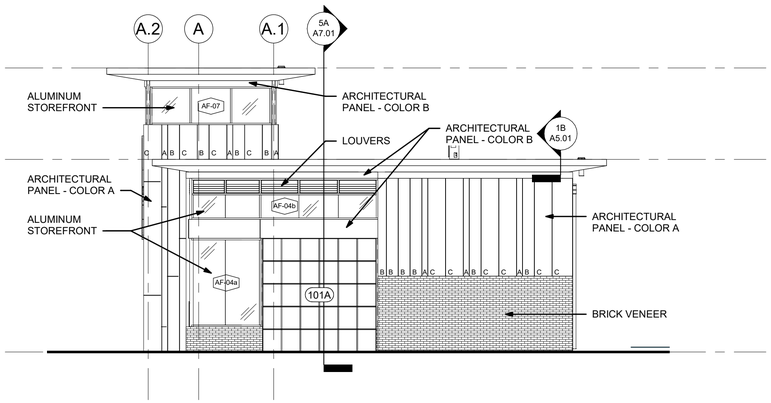
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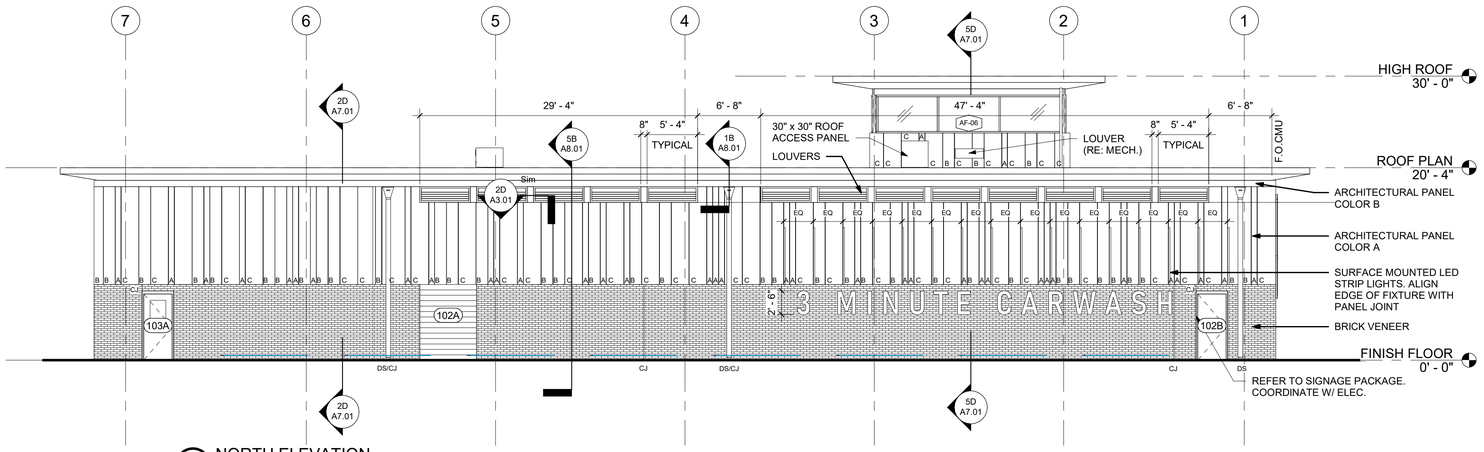
SCM
ARCHITECTS P.L.L.C.
1400 Kirk Road, Suite 220
Little Rock, Arkansas 72223
(501) 224-3055 FAX: (479)-966-4777
www.scmarchitects.com



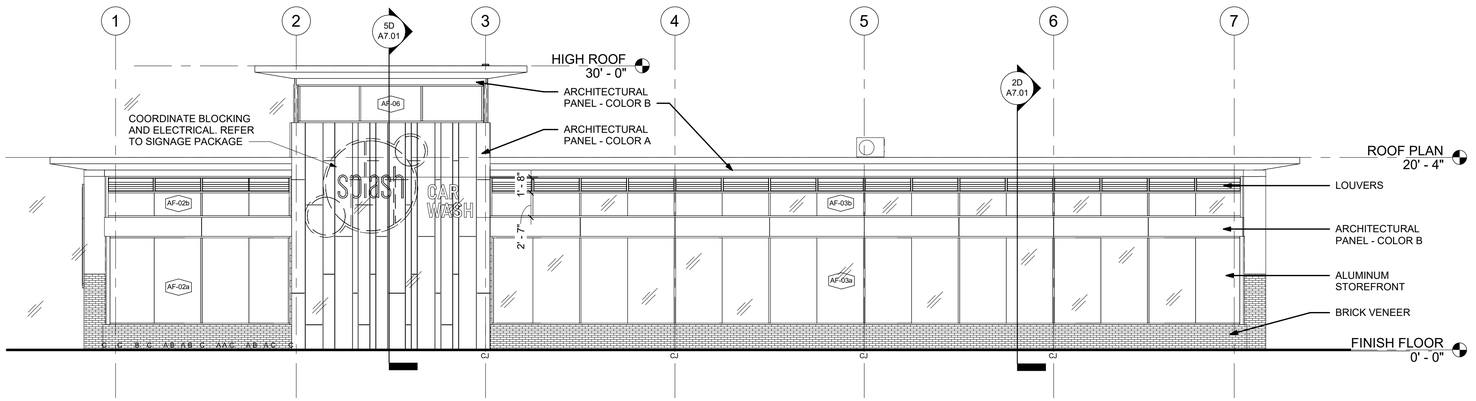
2B EAST ELEVATION
1/8" = 1'-0"



2E WEST ELEVATION
1/8" = 1'-0"



3B NORTH ELEVATION
1/8" = 1'-0"



5B SOUTH ELEVATION
1/8" = 1'-0"

ARCHITECTURAL PANEL TYPES	
PANEL TYPE "A":	7 1/2" WIDE
PANEL TYPE "B":	15" WIDE
PANEL TYPE "C":	22 1/2" WIDE

REFER ALSO TO PROJECT TECHNICAL SPECIFICATIONS

EXPRESS TUNNEL SPLASH CARWASH

REYNOLDS RD.
BRYANT, ARKANSAS 72022

REVISIONS:

PROJECT NO.
21129
DATE:
APRIL 22, 2022

BUILDING ELEVATIONS

A6.01

SCM ARCHITECTS P.L.L.C.
© 2022

5/11/2022 2:24:17 PM

PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
23620 Interstate 30
Bryant, Arkansas 72022

November 15, 2022

Submittal Letter to:
CITY OF BRYANT
PLANNING AND COMMUNITY DEVELOPMENT
Attn: **Mr. Truett Smith, Planning Director**
210 SW 3RD Street
Bryant, Arkansas 72022

Re: Submittal Letter Requesting Project Placement on 19 May DRC Meeting Agenda for **New SPLASH CARWASH**, Bryant, Arkansas

The purpose of this letter is to formally request inclusion on the 19 May 2022 DRC meeting agenda for the Project listed above.

The Project specifics are as follows:

- New Carwash Tunnel
- Covered (Canopy) Kiosk pay stations
- Outdoor vacuum stalls (13)
- On-site detention is provided
- Access is off of Reynolds Road & Evans Loop

PLEASE REMIT ALL CORRESPONDANCE TO:

PO BOX 17307
LITTLE ROCK, ARKANSAS 72222

Please do not hesitate to contact me with any questions regarding this Request letter.

Respectfully submitted,

Phillip Lewis, P.E.
Cell: 501.350.9840

Bryant Planning Commission

SMALL SCALE DEVELOPMENT
COMMERCIAL BUILDING
CHECKLIST

CITY OF BRYANT
210 SW 3RD STREET
BRYANT, AR 72022
501-943-0309

PC MEETING DATE:	THURSDAY OF EACH WEEK
TIME:	9:00 A.M.
PLACE:	ADMINISTRATION CONFERENCE ROOM-BRYANT OFFICE COMPLEX
AGENDA DEADLINE:	5:00 P.M. FRIDAY PRIOR TO SCHEDULED MEETING DATE

REQUIREMENTS FOR SUBMISSION

1. COMPLETED CHECKLIST (SUBDIVISION OR BUILDING)
2. ADA/ABA FORM COMPLETED
3. TWO FULL SETS OF BUILDING PLANS
4. 12 FOLDED COPIES OF SITE PLAN (MINIMUM SIZE 17" X 34") THAT INCLUDES THE FOLLOWING:
   - A, VICINITY MAP
   - B. LEGAL DESCRIPTION
   - C. LANDSCAPING PLAN
5. 12 FOLDED COPIES OF FLOOR PLAN
6. 12 COPIES OF FRONT AND REAR BUILDING ELEVATIONS
7. A CD IN .PDF FORMAT
8. COPY OF ADEQ STORMWATER POLLUTION PREVENTION PLAN FOR PROPERTY PARCEL CONTAINING ONE ACRE OR LARGER.
9. 2 COPIES OF STORMWATER DETENTION PLAN
10. $250.00 FOR STORMWATER DETENTION AND DRAINAGE PLAN REVIEW

ALL REQUIREMENTS LISTED ABOVE MUST BE COMPLETED AND ATTACHED BEFORE SUBMITTING APPLICATION TO BE PLACED ON THE PLANNING COMMISSION AGENDA.

NOTE: WHEN MAKING CHANGES TO AN APPROVED SITE PLAN, A REVISED SITE PLAN MUST BE SUBMITTED TO THE BRYANT PLANNING COMMISSION FOR APPROVAL. THIS MUST BE DONE PRIOR TO IMPLEMENTATION. FAILURE TO COMPLY WILL RESULT IN PENALTIES/FINES BEING IMPOSED IN ACCORDANCE WITH CITY ORDINANCES.

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

SIGNATURE

5/11/2022

DATE

City of Bryant Commercial Building Checklist

Name of Development Splash Car Wash

Site Location Reynolds Road & Evans Loop Current zoning C-2

Owner Colliers International Phone 501-372-6161

I. Basic Information Needed On The Site Plan

- ▲ 1. Name of Development
- ▲ 2. Current zoning
- ▲ 3. Name and Address of owner of Record
- ▲ 4. Name and address of the architect, landscape architect, engineer, surveyor, or other person involved in the preparation of the plan
- ▲ 5. Date of preparation of the plan
- ▲ 6. Vicinity map locating streets, highways, section lines, railroad, schools, & parks within ½ mile
- ▲ 7. Legal description of the property with exact boundary lines
- ▲ 8. North arrow & Scale
- ▲ 9. Identification of any land areas within the 100 year floodplain and within the 100 year floodway
- ▲ 10. Lot area in square feet
- ▲ 11. Show scale (not less than 1" = 100') (paper size minimum 17" X 34")
- ▲ 12. Existing streams, drainage channels, and other bodies of water
- ▲ 13. Drainage easements for stormwater run-off and detention shown & labeled
- ▲ 14. Location and name of existing streets
- ▲ 15. Show source of water supply
- ▲ 16. Show location of waste water connection to municipal system & sanitary sewer layout
- ▲ 17. Fire Hydrant placement
- ▲ 18. Proposed location of buildings and other structures, parking areas, drives, loading areas, service areas, alleys, walks, screening, and public streets
- ▲ 19. Sufficient dimensions to indicate relationship between buildings, property lines, parking areas and other elements of the plan
- ▲ 20. Extent and character of proposed landscaping. Common and/or Botanical plant names and sizes of new vegetation must be clearly indicated.
- ▲ 21. Location, massing and pattern of existing vegetation to be retained
- ▲ 22. Existing structures on the site
- ▲ 23. Pedestrian and vehicular access points, sidewalks, crosswalks, etc.
- ▲ 24. Typical building elevations depicting the style, size and exterior construction materials of the buildings proposed. Where several building types are proposed on the plan, such as apartments and commercial buildings, a separate sketch shall be prepared for each type. The elevations shall be drawn at a minimum scale of 1/16" to a foot and must show adjoining context.
- ▲ 25. Any variance approvals

II. Additional Information Needed, But Not On The Site Plan

Commercial Building Worksheet

	Yes	No
Site is compatible with Master Street Plan	X	
Proposed improvement is within building line setbacks Front 15 ft. Side 15 ft. CNR Side 15 ft. Back 15 ft.	X	
Parking requirements can be satisfied Floor Space 900 sq.ft. divided by 300 = 3 (no. of parking spaces required)	X	
Improvement is outside 100 year flood plain (if answer is no - Provide 404 Permit for site)		
Lowest building floor level and all mechanical equipment are above FEMA 100 year flood elevation	X	
Will there be a dumpster located on the site?	X	
Will there be a construction site office?		X
Have you made "One Call"?		X
Structure and site complies with ADA (Americans with Disability Act) and ABA (Architectural Barriers Act) Accessibility Guidelines	X	
Design complies with Arkansas Plumbing Code and National Electric Code requirements	X	
Foundation and structure meet earthquake requirements for Zone 1.	X	
Structure meets Arkansas Energy Code for specified use.	X	
Complies with Arkansas Fire Prevention Code	X	
Complies with International Code Council regulations	X	
Will a Site Clearance Permit be required? (City Ordinance 2002-03)		X
Are you granted any variances by the Board of Adjustment?		X
If you have been granted a variance please explain in detail:		

III. Landscaping Compliance With Requirements

	YES	NO
No planting within 5 feet of a fire hydrant	X	
Spacing will be 40' between trees	X	
Tree must be a minimum 3" in diameter at the base and 12' + tall	X	
Existing trees meeting the minimum size can be counted to meet above criteria	X	
No trees can be planted within 30 feet of a property corner or driveway	X	
Shrubs along street right-of-way lines cannot exceed 30 inches in height	X	

IV. SITE COVERAGE COMPLIANCE WITH REQUIREMENTS

(FOR YOUR CONVENIENCE WE HAVE LISTED THE THREE COMMERCIAL ZONING SITE COVERAGE REQUIREMENTS - CHOOSE THE ZONING FOR THIS PROJECT AND COMPLETE ONLY THAT SECTION)

	YES	NO
1. C-1 Zoning - Neighborhood Commercial		
Lot area: minimum of 2,500 square feet; maximum 16,000 square feet	____	____
Front Yard: none required	____	____
Side Yard: minimum of 5 feet each side	____	____
Rear Yard: minimum of 55 feet	____	____
Maximum lot coverage of 70% of the total area of the site for all principal, accessory buildings, parking lots, sidewalks, private streets, or drives.	____	____
Parking: one space per each 200 sq. ft. of commercial use	____	____
Loading areas: physically separated from all streets with 10 ft grassy area	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____
2. C-2 Zoning - Lots fronting along roadways designated as Interstate 30 and frontage roads, State Highway 5 and 183		
Front Yard: not less than 50 feet from front property line	X	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 feet is required	X	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	X	____
A maximum lot coverage of 35% of the total area of the site for all principal and accessory buildings	X	____
Parking: one space per each 300 sq. ft. of occupied space	X	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	X	____
3. C-2 Zoning - Lots fronting along roadways designated as interior local.		
Front Yard: none required	____	____
Side Yard: not required, except where they abut a street or a residential lot line then a minimum of 25 percent of lot dimension	____	____
Rear Yard: minimum of 15 feet, except where they abut residential area then a minimum of 55 feet is required	____	____
A maximum lot coverage of 85% of the total area of the site for all principal, accessory buildings and parking	____	____
Parking: one space per each 300 sq. ft. of occupied space	____	____
When abuts a residential district, a minimum 6' high wood, rock, or masonry fence is required with a landscape screen	____	____

V. Site Plan Attachments

(Application will not be accepted until all attachment requirements are met)

- ▲ 26. Letter to Planning Commission stating your request
- ▲ 27. Completed Checklist
- ▲ 28. Completed ADA/ABA Form
- ▲ 29. Two full sets of Building Plans
- ▲ 30. 20 copies of Site Plan (folded to no larger than 8 ½ X 14 size) that includes vicinity map and landscaping plan (minimum size 17" X 34" paper)
- ▲ 31. 20 copies of Landscaping Plan (folded to no larger than 8 ½ X 14 size)
- ▲ 32. 20 copies of building floor plan (folded to no larger than 8 ½ X 14 size)
- ▲ 33. Copy of Stormwater Detention approval
- ▲ 34. Copy of ADEQ Stormwater Pollution Prevention Plan for property containing one acre or larger.
- ▲ 35. IBM compatible diskette or CD with data in PDF format.
- ▲ 36. Receipt for $250.00 for Stormwater Detention and Drainage Plan review

I CERTIFY that the design of SPLASH CAR WASH in the City of Bryant, Arkansas complies with the above regulations, laws and codes.

Colliers International	Phillip Lewis Engineering
Owner	**Engineer/Architect**
1 Allied Dr. STE 1500	501-831-9870
Mailing Address	Phone #
Little Rock, AR 7220	5/11/2022
City	Date

CITY USE

Action Taken:

Special Conditions:

Permit Issued: Date _____ Sq.Ft. _____ Amount $_____

Construction Completed Certified For Occupancy: Date: _____

Inspector: _____

Permit No. _____

BUILDING PERMIT

ADA/ABA ACCESSIBILITY STANDARDS

The *Americans with Disability Act* and *Architectural Barriers Act* Accessibility Guidelines were prepared by the U.S. Access Board and mandated by the U. S. Department of Justice regulations implementing Title III as the official ADA/ABA accessibility guidelines. **All new construction, remodeling, and modifications must conform to these building standards** for places of public accommodation and commercial facilities. Residential is exempt.

The ADA/ABA accessibility guidelines contain general design standards for building and site elements, such as accessible entrances and routes, ramps, parking spaces, stairs, elevators, restrooms, signage, etc. Also included are specific standards for restaurants, medical care facilities, libraries and transportation facilities and vehicles, and places of lodging.

The guidelines also include "scoping" requirements that outline the necessary features or appropriate quantity for achieving ready access. For example, at least 50 percent of all public entrances to buildings must be accessible with an accessible path of travel. In public restrooms, at least one bathroom stall must be accessible unless there are more than six stalls, in which case the number increases.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the ADA Accessibility Guidelines. I further understand that a copy of the ADA/ABA Regulations are available for inspection during business hours of City Hall or I may obtain a copy by writing:

The Access Board
1331 F Street, NW, Suite 1000
Washington, DC 20004-1111
(202) 272-0080 (v) (202) 272-0082 (TTY) (202) 272-0081 (fax)
(800) 872-2253 (v) (800) 993-2822 (TTY)
email: info@access-board.gov

Signature of Contractor or Authorized Agent_____**Date**_____

Signature of Owner (if owner-builder) _____**Date**_____

Application of Permit Approved: _____**Date**_____
Commission - Chairman

Bryant Water & Sewer Department

GREASE TRAP STANDARDS

The City of Bryant requires all commercial buildings comply with plumbing codes found in the Arkansas State Plumbing Code, Latest Edition. All new construction, remodeling, and modifications must conform to these plumbing standards for places of public accommodation and commercial facilities. These guidelines contain general design standards for construction and site elements relating to plumbing.

As of 7/27/04, the Bryant Sewer & Water Commission requires stringent specification standards for commercial or public businesses that involve any food preparation on the premise. The new standard requires calculations, and associated data to be submitted to the Bryant Water Utilities General Manager concurrent with the proposed building plumbing plans along with a grease trap calculation form. Building Permits will not be issued until this form has been received and approved by the Bryant Water Utilities General Manager.

All new buildings or strip centers containing sections designated for commercial enterprise are encouraged to provide a stub-out for a separate waste line for future grease interceptor installation. The owner of a new strip center shall consider suitable physical property space and sewer gradient that will be conducive for the installation of an exterior, in-ground grease interceptor(s) for any flex space contained within the strip center. Physical Property Restrictions and sewer gradient shall not be a defense for failure to install an exterior, in-ground grease interceptor.

I hereby certify that I have read and examined the above notice and will comply with all guidelines of the City of Bryant Water & Sewer Department. I further understand that copies of the Grease Interceptor Design and Structural Criteria regulations will be available from the Bryant Water/Wastewater Plant (501-847-8083) during business hours.

Project Name _____

Signature of Contractor
or Authorized Agent_____Date_____

Signature of Owner
(if owner-builder) _____Date_____

Calculations
Approved: _____Date_____
Bryant Water Utilities General Manager