Bryant Development and Review Committee Meeting

Boswell Municipal Complex - City Hall Conference Room

210 SW 3rd Street

Date: October 17, 2024 - **Time:** 9:00 AM

Call to Order

Old Business

1. Window World - 511 Boone Road - New Driveway

Jodie Cerrato - Requesting Approval for New Additional Driveway

- 0905-PLN-01.pdf

2. 21814 I-30 - Site Plan Addition

Requesting Approval for Addition of Two Carports on Site

- 0914-PLN-03.pdf
- 0914-PLN-02.pdf
- 0914-PLN-01.png
- 0914-DRW-01.pdf

New Business

3. Market Place II Subdivision - Lot 17R - Site Plan

Bart Ferguson - Requesting Site Plan Approval

- 0920-LND17R-01.pdf
- 0920-PLN17R-01.pdf

4. Market Place II Subdivision - Lot 18R - Site Plan

Bart Ferguson - Requesting Site Plan Approval

- 0920-LND18R-01.pdf
- 0920-PLN18R-01.pdf

5. Hawkins Valley Ph 1 - Preliminary Plat

GarNat Engineering - Requesting Recommendation for Preliminary Plat Approval

- 0921-SWPPP-01.pdf
- 0921-ECP-01.pdf
- 0921-PLN-01.pdf

6. Bryant Seminary - HWY 5 - Site Plan

PLE - Requesting Recommendation for Site Plan Approval

- 0919-DRN-01.pdf

- 0919-PLN-01.pdf

7. Parcel 840-15010-000 - Alcoa Road - Rezoning R-E to C-3

Hope Consulting - Requesting Recommendation for Rezoning from R-E to C-3

- 0922-RZNAPP-01.pdf
- 0922-RZN-02.pdf
- 0922-RZN-03.pdf
- 0922-RZNLTR-01.pdf

Staff Approved

Permit Report

Adjournments

Boone Rd
We would like to add a 40' x 24" Culvert for additional driveway Entrace
Current Entry
Boone Rd
511 Boone Rd.
19
18
511
507
100
101
102
100

REGULAR / A-FRAME
24'-0" WIDE
CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2012, OSHA, AISC 360, AISI 100, ASCE 7-10, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA. IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

PREVAILING CODE:	AFPC 2012 (IBC 2012)
USE GROUP:	U (CARPORTS, BARNS)
RISK CATEGORY:	I

1.	DEAD LOAD (D)	D = 4 PSF
2.	ROOF LIVE/SNOW LOAD (Lr)	Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4)
3.	SNOW LOAD (S)	
	GROUND SNOW LOAD	P_g = 20 - 90 PSF
	IMPORTANCE FACTOR	Is = 0.8
	THERMAL FACTOR	Ct = 1.2
	EXPOSURE FACTOR	Ce = 1.0
	ROOF SLOPE FACTOR	Cs = 1.0
4.	WIND LOAD (W)	
	BASIC WIND SPEED	V_{ULT} = 105 - 180 MPH
	EXPOSURE	C
5.	SEISMIC LOAD (E)	
	DESIGN CATEGORY	D
	IMPORTANCE FACTOR	Ie = 1.00

LOAD COMBINATIONS:

1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

DRAWING INDEX

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SIDE WALL FRAMING & OPENINGS	------	7-A, 7-B
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CORNER BRACING DETAILS	------	9
OPTIONAL LEAN-TO ADDITION	------	10
FOUNDATION OPTIONS	------	11-A TO 11-D

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC

457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE: COVER SHEET

SHEET NO.: 1 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

DATE SIGNED: 01-18-2023

CUSTOMER INFORMATION

OWNER:

ADDRESS:

DESIGN LOADS

GROUND SNOW:

ROOF LIVE LOAD:

BASIC WIND SPEED:

BUILDING INFORMATION

WIDTH:

LENGTH:

HEIGHT:

FRAME TYPE: ☐ A-FRAME ☐ REGULAR

ENCLOSURE TYPE: ☐ FULL ☐ PARTIAL ☐ OPEN

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS EXPIRATION: **01-18-2024**

CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

TABLE 2.1: MEMBER PROPERTIES

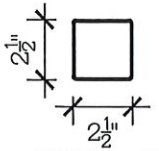
NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE	1
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" 14GA CHANNEL	4
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9A	OPT. END WALL GIRT	2.5" X 1.5" 14GA CHANNEL	1
10	SHEATHING	29 GA CORRUGATED SHEET	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25" X 6" LG. 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	ALL FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	

TABLE 2.2: SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	$4\frac{1}{2}$" C/C	9" C/C

FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

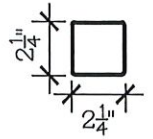
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.



THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE (1)

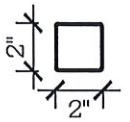
SCALE: NTS



THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE (2)

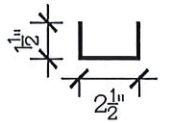
SCALE: NTS



THICKNESS = 14GA

2" X 2" 14GA TUBE (3)

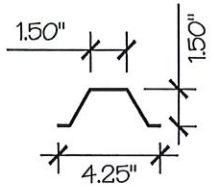
SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL (4)

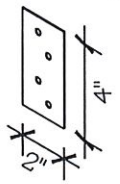
SCALE: NTS



THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA HAT CHANNEL (5)

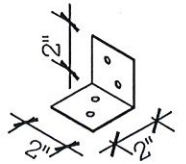
SCALE: NTS



THICKNESS = 14GA

STRAIGHT BRACKET (6)

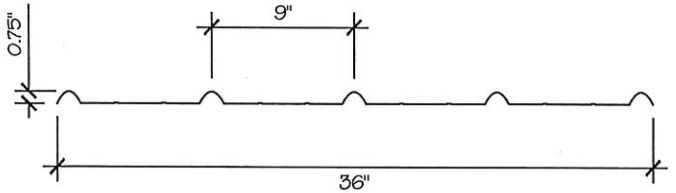
SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET (7)

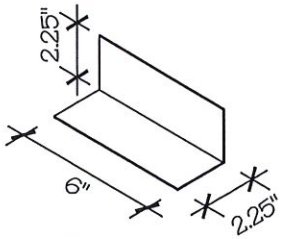
SCALE: NTS



THICKNESS = 29GA

29 GA CORRUGATED SHEATHING (8)

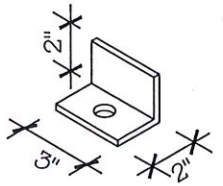
SCALE: NTS



THICKNESS = 14GA

DB BRACKET (9)

SCALE: NTS



THICKNESS = 3/16"

BASE ANGLE (10)

SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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SEAL:

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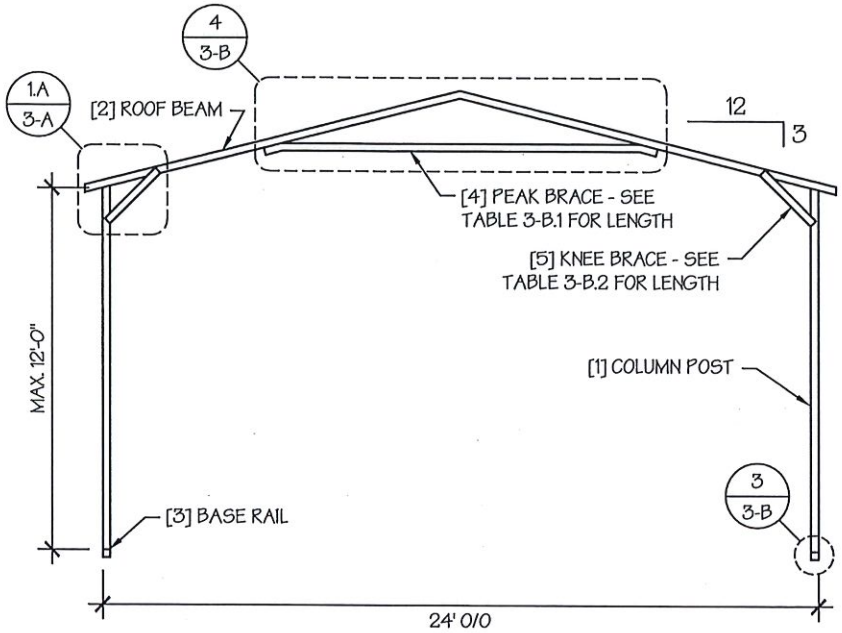
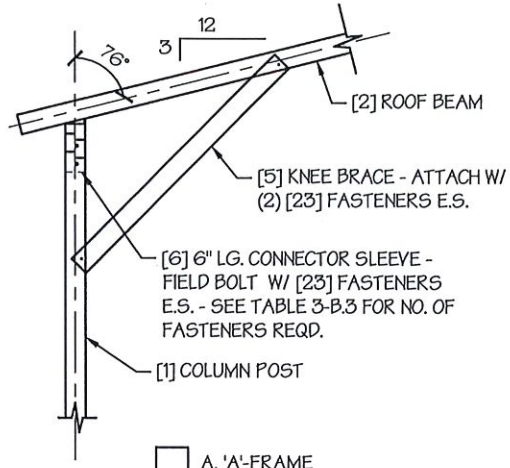
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

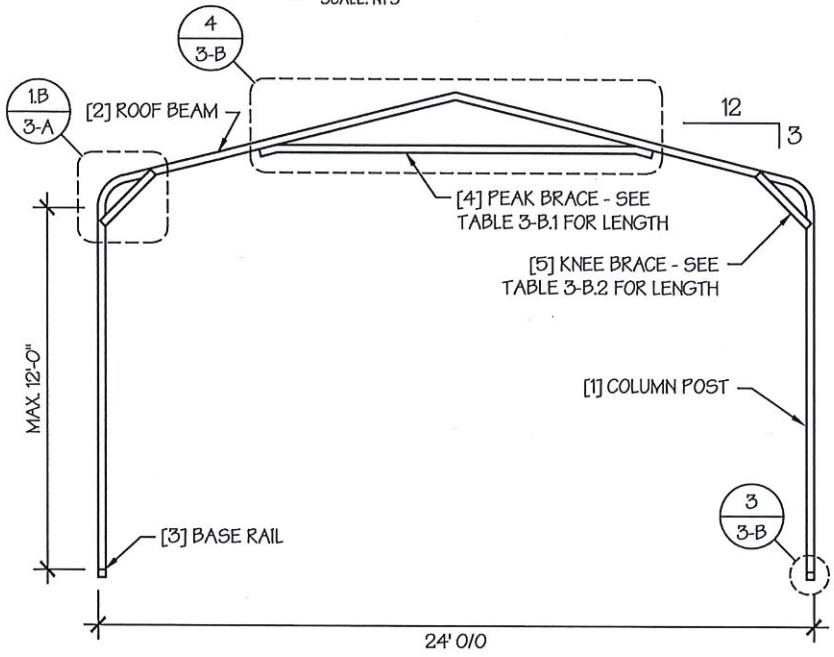
DATE SIGNED: 01-18-2023



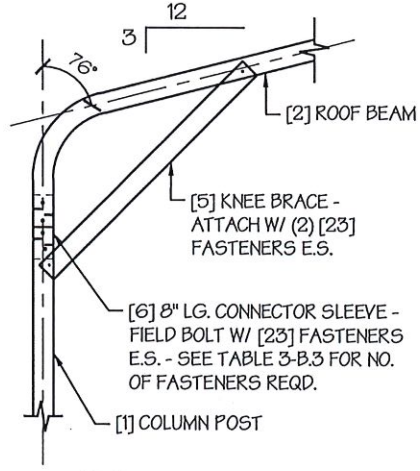
TYP. A-FRAME SECTION
SCALE: NTS



A. 'A'-FRAME



TYP. REGULAR FRAME SECTION
SCALE: NTS



B. REGULAR-FRAME

EAVE DETAIL 1
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: FRAME SECTIONS & DETAILS
SHEET NO.: 3-A / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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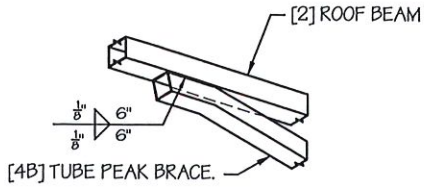
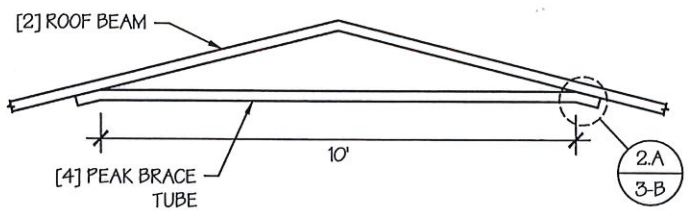
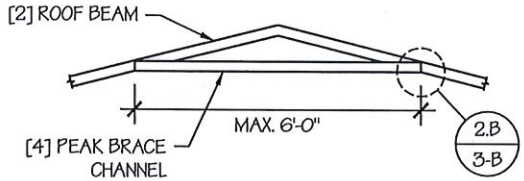


A. PEAK BRACE TUBE

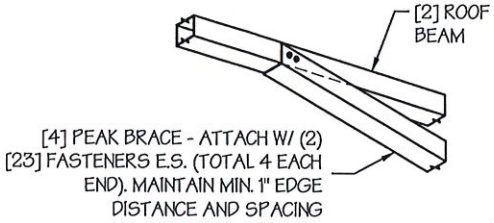


☐ A. WELDED PEAK BRACE



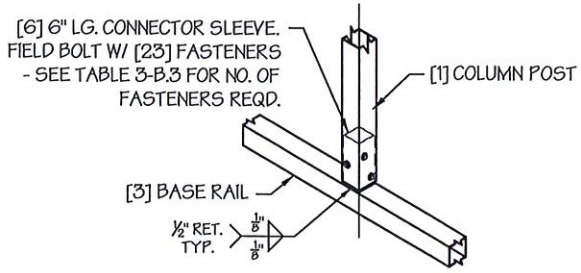
☐ B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS (4)
SCALE: NTS



B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS (2)
SCALE: NTS



BASE DETAIL (3)
SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	WIND SPEED	
	☐105 TO 130	☐140 TO 180
☐ 30 / 20	6'	10'
☐ 35 / 25 TO 90 / 61	10'	10'

TABLE 3-B.2: KNEE BRACE SCHEDULE

EAVE HEIGHT	KNEE BRACE LENGTH
☐UP TO 8'	24"
☐ 9' TO 12'	36"

TABLE 3-B.3 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
☐ 105 TO 125	4
☐ 130 TO 155	6
☐ 160 TO 180	8

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

MANUFACTURED BY:

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DRAWING INFORMATION

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SHEET TITLE: FRAME DETAILS
SHEET NO.: 3-B / 11
DRAWN BY: A.W. DATE: 1/22/21
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No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023

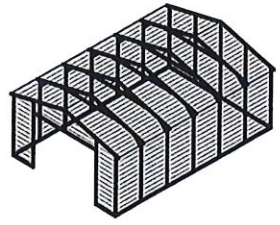
TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ ENCLOSED BUILDINGS — WIND SPEED (MPH)							■ OPEN BUILDINGS — WIND SPEED (MPH)						
		☐105	☐115	☐130	☐140	☐155	☐165	☐180	☐105	☐115	☐130	☐140	☐155	☐165	☐180
■ EAVE HEIGHT = 10'-0" TO 12'-0"	☐30 / 20	60	60	54/60	54	42	42	36	48	48	48	42	36	30	24
	☐40 / 27	48/60	48/60	42/60	42/54	42	42	36	42	42	42	42	36	30	24
	☐50 / 34	40/48	40/48	40/48	40/48	40/42	40/42	36	30	30	30	30	30	30	24
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	24
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	18	18	18	18	18
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = 7'-0" TO 9'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	54	54	48/54	42/54	36/48	36	30
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	42	42	42	42	36/42	36	30
	☐50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	36	36	36	36	36	36	30
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = UP TO 6'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/42	36
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	48	48	42/48	42/48	36/48	36/42	36
	☐50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	40/42	40/42	40/42	40/42	36/42	36	36
	☐60 / 41	36	36	36	36	36	36	36	36	36	36	36	36	36	30
	☐70 / 47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---

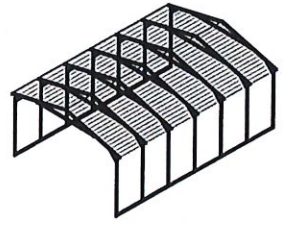
NOTES:
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION:

1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
4. PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
5. 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
6. FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.



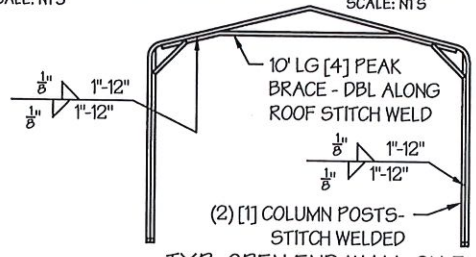
TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS

GENERAL NOTES:

1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).
3. ALL BUILDINGS WITH AN OPEN END WALL MUST HAVE A 10'-0" TUBE PEAK BRACE.



TYP. OPEN END WALL ON 3 SIDE ENCLOSED BUILDING
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES
SHEET NO.: 4 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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OMAR ABU-YASEIN

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DATE SIGNED: 01-18-2023

TABLE 5.1: PURLIN SPACING SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ 14GA. HAT CHANNEL PURLIN — WIND SPEED (MPH)						
		□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
FRAME SPACING: ■ 5'-0"	□ 30 / 20	54	48	42	36	30	24	24
	□ 40 / 27	42	42	42	36	30	24	24
	□ 50 / 34	40	40	40	36	30	24	24
	□ 60 / 41	36	36	36	36	30	24	24
	□ 70 / 47	32	32	32	32	30	24	24
	□ 80 / 54	30	30	30	30	30	24	24
	□ 90 / 61	24	24	24	24	24	24	24
FRAME SPACING: ■ 4'-6"	□ 30 / 20	54	48	42	42	36	30	30
	□ 40 / 27	42	42	42	42	36	30	30
	□ 50 / 34	40	40	40	40	36	30	30
	□ 60 / 41	36	36	36	36	36	30	30
	□ 70 / 47	32	32	32	32	32	30	30
	□ 80 / 54	32	32	32	32	32	30	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 4'-0"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-6"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-0" OR LOWER	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30

NOTES:
1. PURLIN SPACING UNITS ARE IN INCHES.
2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)						
	□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
□ 5'-0"	60	48	36	30	24	24	18
□ 4'-6"	60	60	48	42	36	30	24
□ 4'-0"	60	60	54	54	42	36	30
□ 3'-6"	60	60	54	54	48	42	42
□ 2'-0" TO 3'-0"	60	60	54	54	48	42	42

NOTES:
1. GIRT SPACING UNITS ARE IN INCHES.
2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA
3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

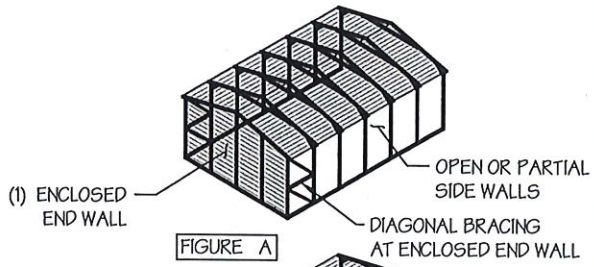

FIGURE A

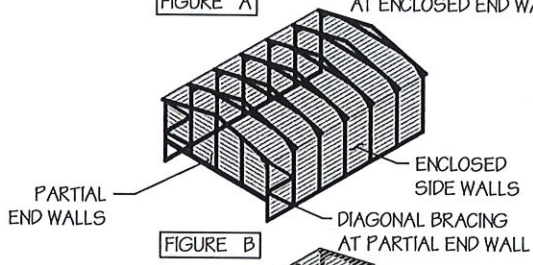

FIGURE B

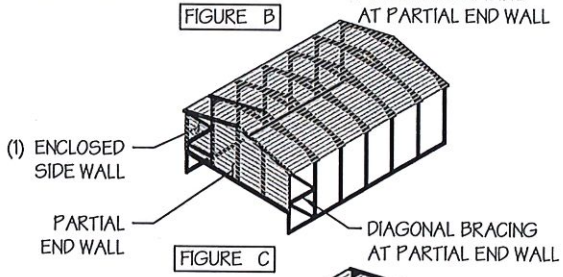

FIGURE C

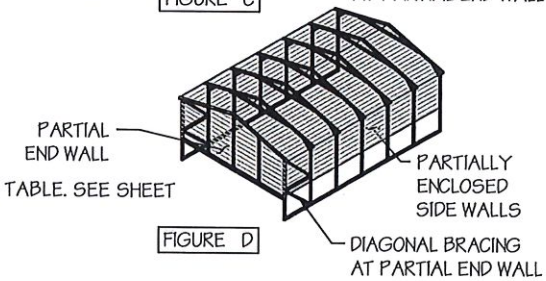

FIGURE D

IRREGULAR BUILDING NOTES:
1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
2. FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
3. SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
4. IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES.

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: PURLIN & GIRT SPACING SCHEDULES
SHEET NO.: 5 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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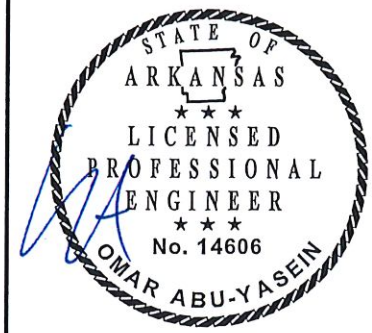

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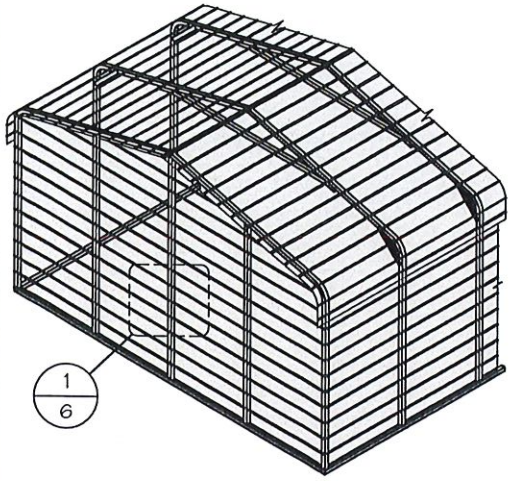
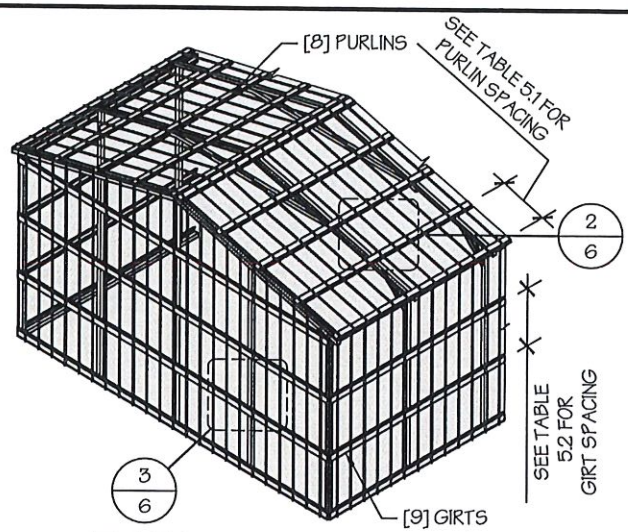


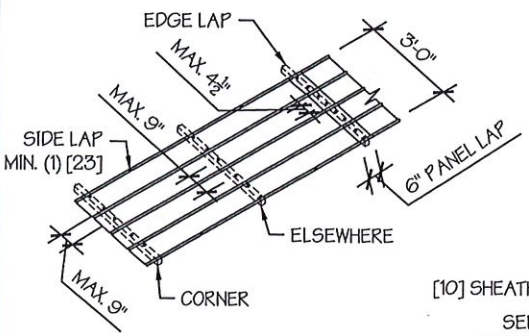
TYP. HORIZONTAL SHEATHING
SCALE: NTS



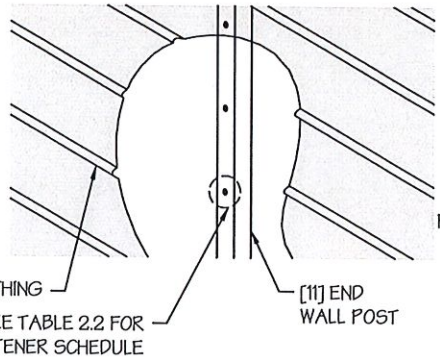
TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

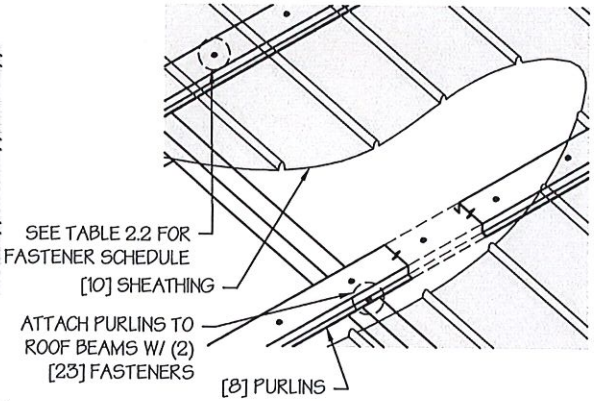
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
5. VERTICAL SHEATHING RECOMMENDED FOR BUILDINGS 30' OR LONGER



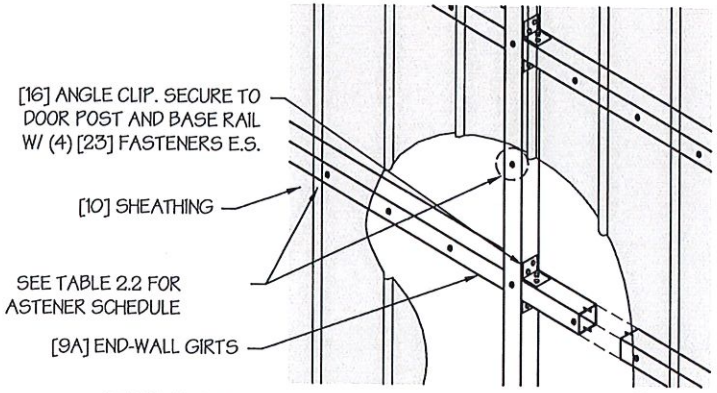
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



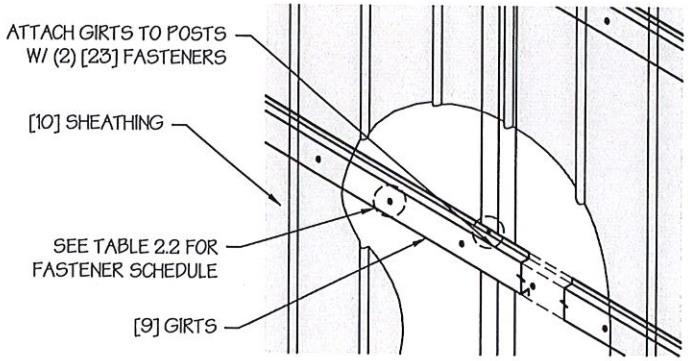
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS



WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS



WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SHEATHING OPTIONS & DETAILS
SHEET NO.: 6 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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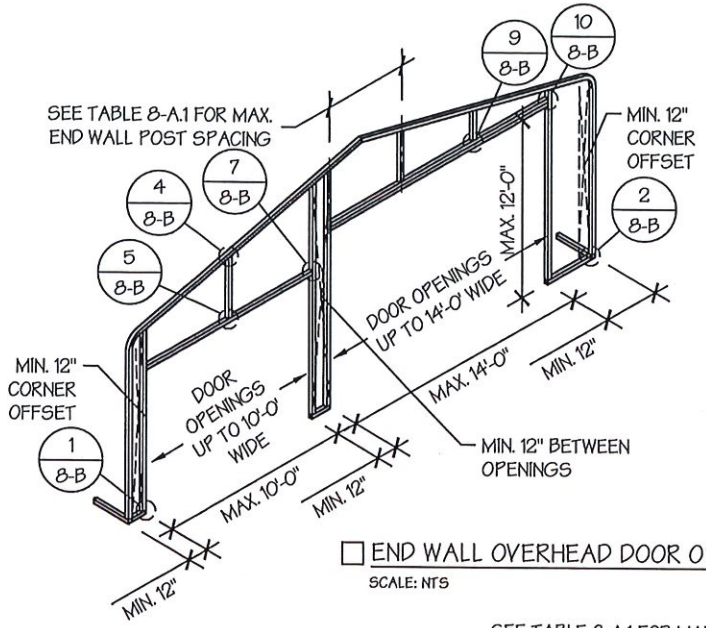
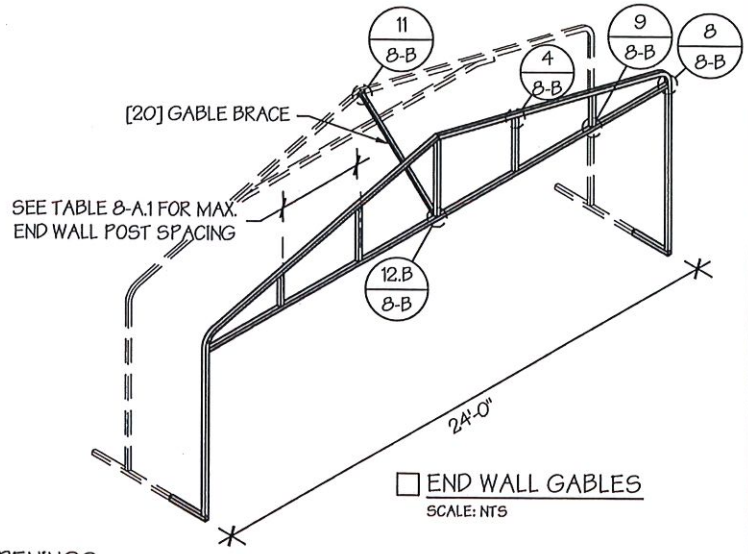


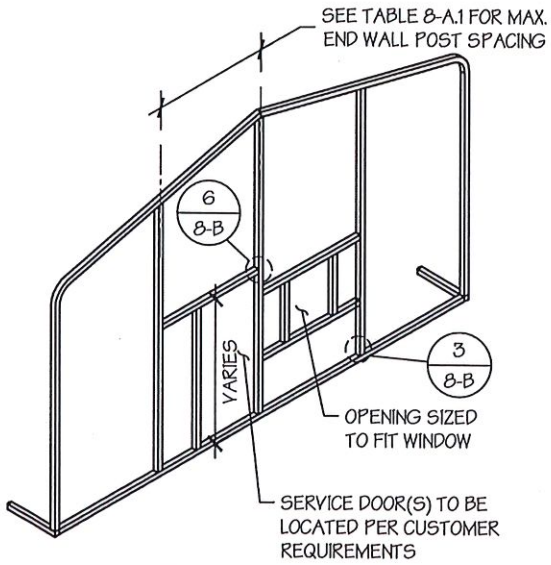
☐ END WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



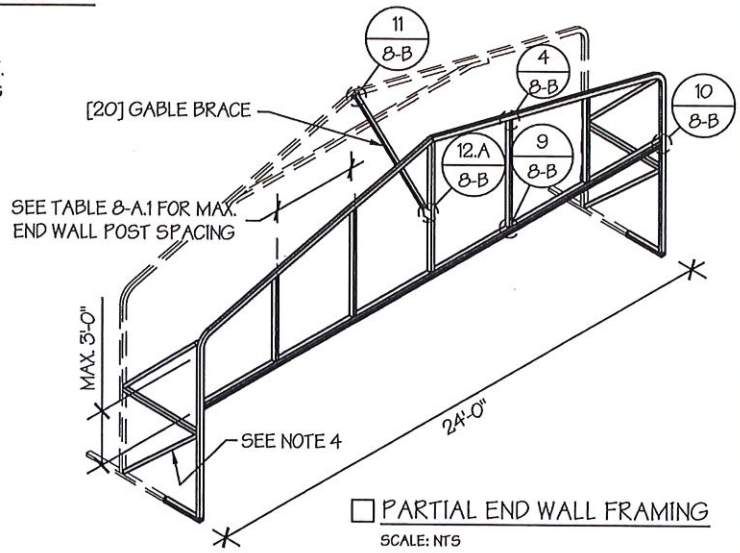
☐ END WALL GABLES

SCALE: NTS



☐ END WALL SERVICE DOOR AND WINDOW OPENINGS

SCALE: NTS



☐ PARTIAL END WALL FRAMING

SCALE: NTS

TABLE 8-A.1: END WALL POST SPACING SCHEDULE

WIND SPEED (MPH)	EAVE HEIGHT		
	■ UP TO 7'	■ 8' TO 9'	■ 10' TO 12'
☐ 105	5'	5'	5'
☐ 115	5'	5'	4.5'
☐ 130	4.5'	4.5'	4'
☐ 140	4.5'	4.5'	3'
☐ 155	4'	4'	2.5'
☐ 165 - 180	3.5'	3'	2'

END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
4. DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11

DRAWN BY: A.W. DATE: 1/22/21

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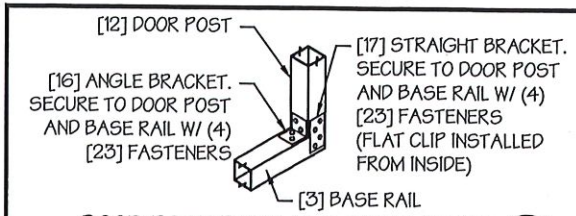
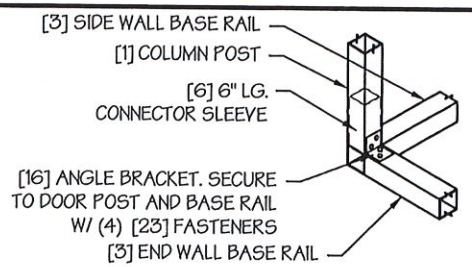
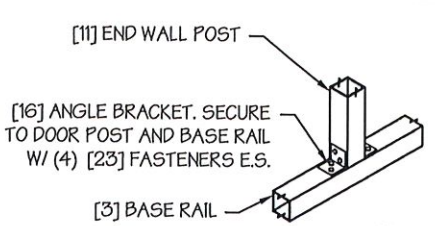


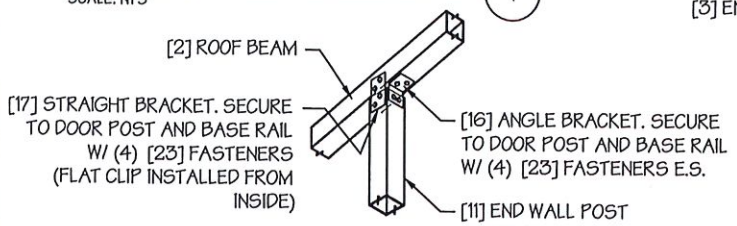
DOOR POST BASE RAIL CONN. DETAIL (1)
SCALE: NTS



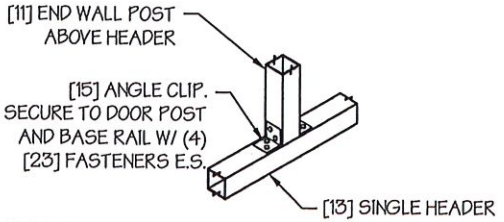
CORNER DETAIL (2)
SCALE: NTS



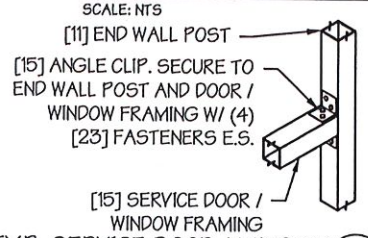
END WALL POST - BASE RAIL CONN. DETAIL (3)
SCALE: NTS



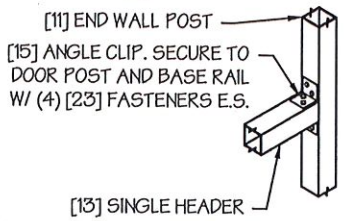
END WALL POST - ROOF BEAM CONN. DETAIL (4)
SCALE: NTS



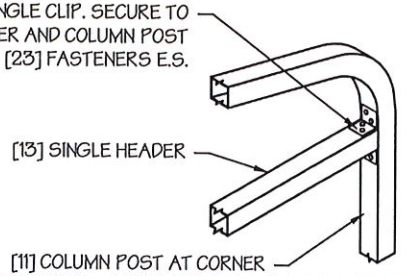
END WALL POST ABOVE HEADER CONN. DETAIL (5)
SCALE: NTS



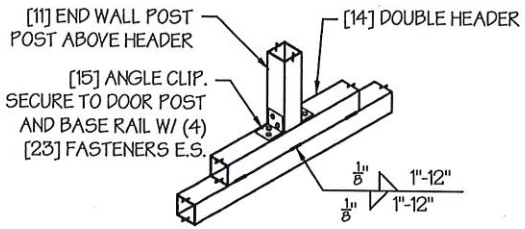
TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL (6)
SCALE: NTS



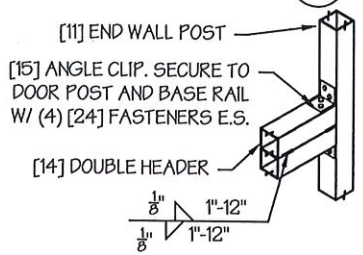
HEADER - END WALL POST CONN. DETAIL (7)
SCALE: NTS



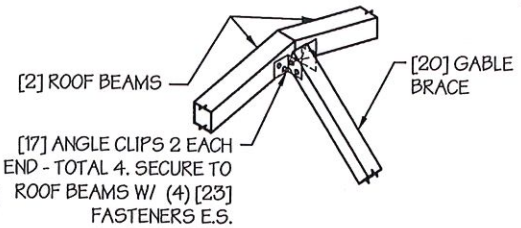
GABLE HEADER - CORNER POST CONN. DETAIL (8)
SCALE: NTS



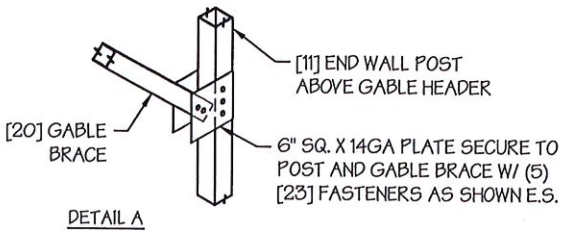
END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL (9)
SCALE: NTS

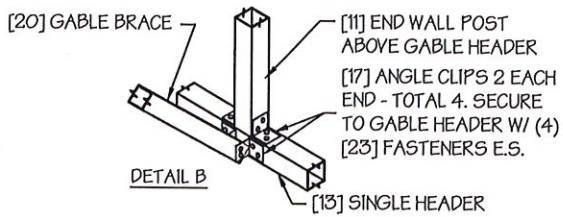


DOUBLE HEADER - END WALL POST CONN. DETAIL (10)
SCALE: NTS



TYP. GABLE BRACE CONN. DETAIL (11)
SCALE: NTS





GABLE BRACE - END WALL CONN. DETAIL (12)
SCALE: NTS

MANUFACTURED BY:

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457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

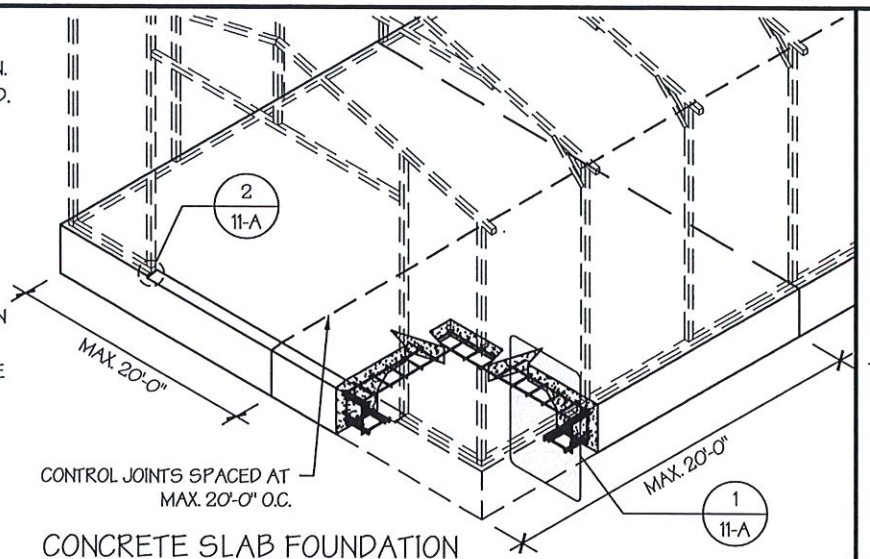
SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

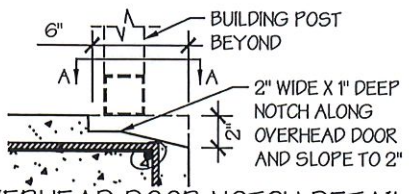
STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023

CONCRETE SLAB FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE SLAB FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU C CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNERS OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL. IN LOCATIONS REQUIRING TWO ANCHORS DUE TO WIND, ONE ANCHOR IS TO BE ON EACH SIDE OF THE COLUMN POST.
3. ANCHORS IN CLOSE PROXIMITY TO EACH OTHER MUST HAVE A MIN. 4" SPACING.
4. MIN. NUMBER OF CONCRETE ANCHORS PER POST SHALL BE AS SHOWN IN TABLE 11-A.2.
5. THE SIZE OF THE SLAB SHALL BE THE SIZE (WIDTH AND LENGTH) OF THE BUILDING PLUS $5\frac{1}{2}$" FOR 14GA MATERIAL AND $5\frac{3}{4}$" FOR 12GA MATERIAL.
6. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
7. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
8. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
9. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



CONCRETE SLAB FOUNDATION
SCALE: NTS



OVERHEAD DOOR NOTCH DETAIL (2)
SCALE: NTS

TABLE 11-A.1: NOTCH WIDTH

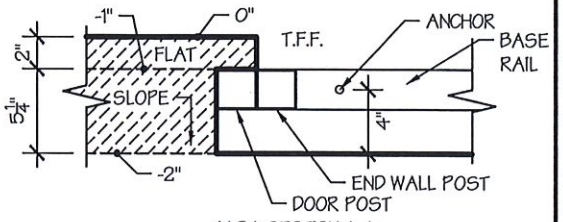
HORIZONTAL/OPEN		VERTICAL	
☐ 14GA	☐ 12GA	☐ 14GA	☐ 12GA
2 3/4"	2 7/8"	1 3/4"	1 7/8"

NOTE: DEPTH IS TO BE 1 1/2"

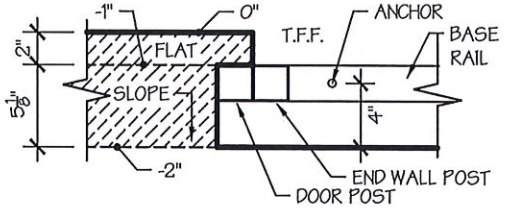
TABLE 11-A.2: CONCRETE SLAB ANCHOR SCHEDULE

ENCLOSURE	WIND SPEED (MPH)	ANCHOR SIZE/NUMBER
ENCLOSED	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"
OPEN	☐105 TO 135	(1) 1/2"Ø X 7"
	☐136 TO 180	(2) 1/2"Ø X 7"

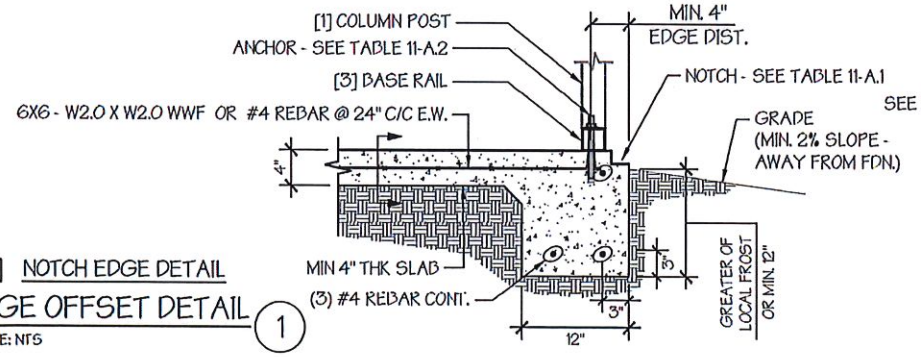
NOTES:
1. ANCHORS ARE TO BE CONCRETE WEDGE OR EXPANSION ANCHORS.
2. MIN. EMBEDMENT DEPTH TO BE $2\frac{7}{8}$".
3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.



14GA SECTION A-A

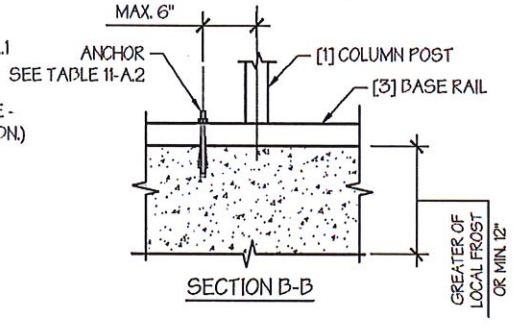


12GA SECTION A-A



☐ NOTCH EDGE DETAIL

EDGE OFFSET DETAIL (1)
SCALE: NTS



SECTION B-B

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC

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Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: FOUNDATION OPTION 1: CONCRETE SLAB
SHEET NO.: 11-A / 11
DRAWN BY: AW DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023

REGULAR / A-FRAME
24'-0" WIDE
CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2012, OSHA, AISC 360, AISI 100, ASCE 7-10, AWSD 1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE #12X1" SDS (ESR-2196 OR EQ).
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL.
8. STRUCTURAL TUBE TS2 1/2"X2 1/2" - 14GA. IS EQUIVALENT TO TS2 1/4"X2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
9. ALL DESIGN CRITERIA MUST BE INCREASED TO THE NEXT HIGHER INCREMENT BASED ON THE TABLES ON PAGE 4. NO INTERPOLATION IS ALLOWED.

DESIGN CRITERIA

PREVAILING CODE:	AFPC 2012 (IBC 2012)
USE GROUP:	U (CARPORTS, BARNS)
RISK CATEGORY:	I

1.	DEAD LOAD (D)	D = 4 PSF
2.	ROOF LIVE/SNOW LOAD (Lr)	Lr = 20 - 61 PSF (AS PER SNOW LOAD SEE TABLE 4)
3.	SNOW LOAD (S)	
	GROUND SNOW LOAD	P_g = 20 - 90 PSF
	IMPORTANCE FACTOR	Is = 0.8
	THERMAL FACTOR	Ct = 1.2
	EXPOSURE FACTOR	Ce = 1.0
	ROOF SLOPE FACTOR	Cs = 1.0
4.	WIND LOAD (W)	
	BASIC WIND SPEED	V_{ULT} = 105 - 180 MPH
	EXPOSURE	C
5.	SEISMIC LOAD (E)	
	DESIGN CATEGORY	D
	IMPORTANCE FACTOR	Ie = 1.00

LOAD COMBINATIONS:

1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

DRAWING INDEX

COVER SHEET	------	1
SCHEDULES & MEMBER - SECTIONS	------	2
FRAME SECTIONS & DETAILS	------	3-A, 3-B
SPACING SCHEDULES - & ENCLOSURE NOTES	------	4
PURLIN & GIRT SCHEDULES	------	5
SHEATHING OPTIONS	------	6
SIDE WALL FRAMING & OPENINGS	------	7-A, 7-B
END WALL FRAMING & OPENINGS	------	8-A, 8-B
CORNER BRACING DETAILS	------	9
OPTIONAL LEAN-TO ADDITION	------	10
FOUNDATION OPTIONS	------	11-A TO 11-D

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC

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CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE: COVER SHEET

SHEET NO.: 1 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

DATE SIGNED: 01-18-2023

CUSTOMER INFORMATION

OWNER:

ADDRESS:

DESIGN LOADS

GROUND SNOW:

ROOF LIVE LOAD:

BASIC WIND SPEED:

BUILDING INFORMATION

WIDTH:

LENGTH:

HEIGHT:

FRAME TYPE: ☐ A-FRAME ☐ REGULAR

ENCLOSURE TYPE: ☐ FULL ☐ PARTIAL ☐ OPEN

CERTIFICATION VALIDITY NOTICE

DATE OF PLANS EXPIRATION: **01-18-2024**

CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE

TABLE 2.1: MEMBER PROPERTIES

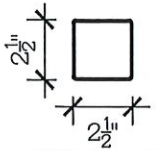
NO.	LABEL	PROPERTY	DETAIL NO.
1	COLUMN POST	2.5" X 2.5" X 14GA TUBE	1
2	ROOF BEAM	2.5" X 2.5" X 14GA TUBE	1
3	BASE RAIL	2.5" X 2.5" X 14GA TUBE	1
4	PEAK BRACE	2.5" X 2.5" 14GA CHANNEL	4
5	KNEE BRACES	2.5" X 1.5" 14GA CHANNEL	4
6	CONNECTOR SLEEVE	2.25" X 2.25" X 12GA TUBE	2
7	BASE ANGLE	2" X 2" X 3" LG. 3/16" ANGLE	10
8	PURLIN	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9	GIRT	4.25" X 1.5" X 14GA / 18GA HAT CHANNEL	5
9A	OPT. END WALL GIRT	2.5" X 1.5" 14GA CHANNEL	1
10	SHEATHING	29 GA CORRUGATED SHEET	8
11	END WALL POST	2.5" X 2.5" X 14GA TUBE	1
12	DOOR POST	2.5" X 2.5" X 14GA TUBE	1
13	SINGLE HEADER	2.5" X 2.5" X 14GA TUBE	1
14	DOUBLE HEADER	DBL. 2.5" X 2.5" X 14GA TUBE	1
15	SERVICE DOOR / WINDOW FRAMING	2.5" X 2.5" X 14GA TUBE	1
16	ANGLE BRACKET	2" X 2" X 2" LG. 14GA ANGLE	7
17	STRAIGHT BRACKET	2" X 2" X 4" LG. 14GA PLATE	6
18	PB SUPPORT	2.5" X 2.5" X 14GA TUBE	1
19	DIAGONAL BRACE	2" X 2" X 14 GA TUBE	3
20	GABLE BRACE	2" X 2" X 14 GA TUBE	3
21	DB BRACKET	2.25" X 2.25" X 6" LG. 14GA ANGLE	9
22	TRUSS SPACER	2.5" X 2.5" X 14GA TUBE	1
23	ALL FASTENERS	#12 X 1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER	

TABLE 2.2: SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANELS	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	$4\frac{1}{2}$" C/C	9" C/C

FASTENER TYPE: #12X1" SELF-DRILL SCREWS (ESR-2196 OR EQ) W/ NEOPRENE/STEEL WASHER

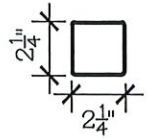
*SEE TYP. SHEATHING FASTENER SCHEDULE DIAGRAM ON PAGE 6.



THICKNESS = 14GA

2.5" X 2.5" 14GA TUBE (1)

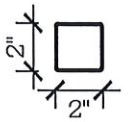
SCALE: NTS



THICKNESS = 12GA

2.25" X 2.25" 12GA TUBE (2)

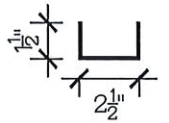
SCALE: NTS



THICKNESS = 14GA

2" X 2" 14GA TUBE (3)

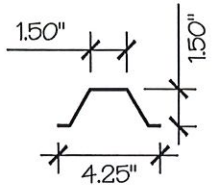
SCALE: NTS



THICKNESS = 14GA

2.5" X 1.5" 14GA CHANNEL (4)

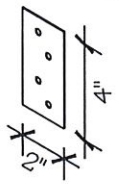
SCALE: NTS



THICKNESS = 14GA / 18GA

4.25" X 1.5" X 14GA / 18GA HAT CHANNEL (5)

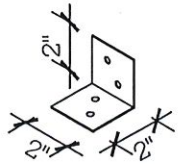
SCALE: NTS



THICKNESS = 14GA

STRAIGHT BRACKET (6)

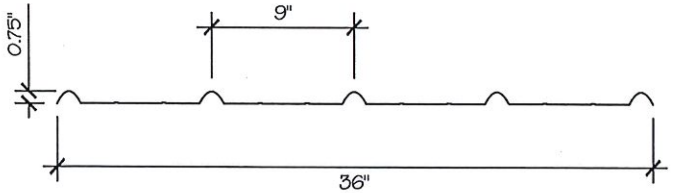
SCALE: NTS



THICKNESS = 14GA

ANGLE BRACKET (7)

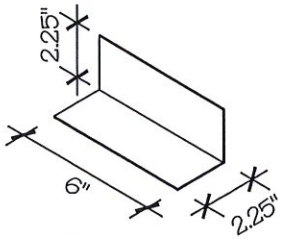
SCALE: NTS



THICKNESS = 29GA

29 GA CORRUGATED SHEATHING (8)

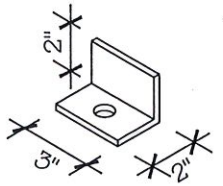
SCALE: NTS



THICKNESS = 14GA

DB BRACKET (9)

SCALE: NTS



THICKNESS = 3/16"

BASE ANGLE (10)

SCALE: NTS

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www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

SCHEDULES & MEMBER SECTIONS

SHEET NO.: 2 / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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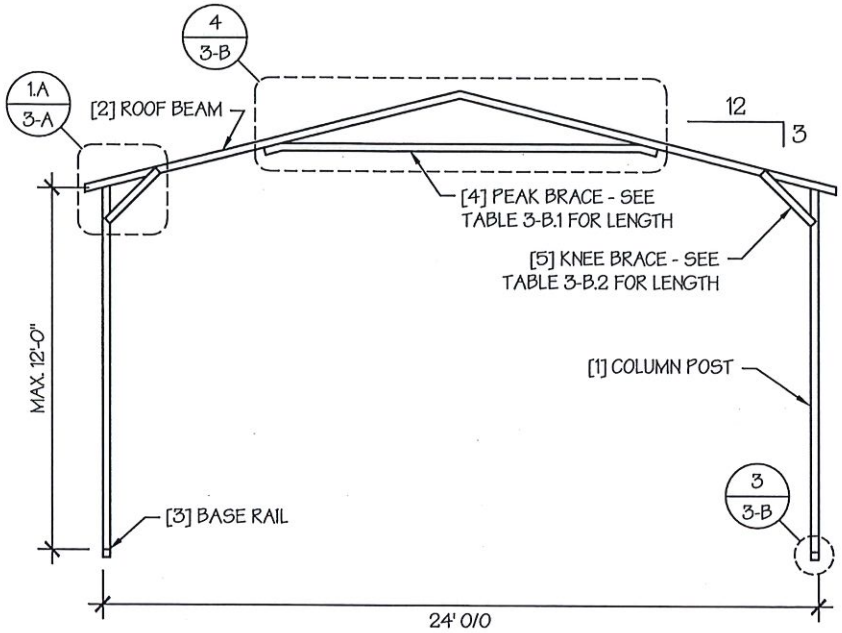
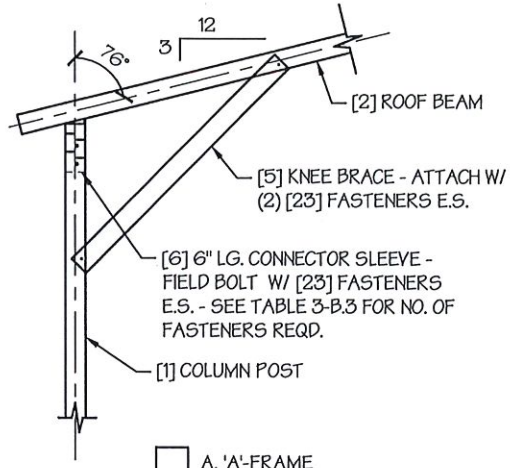
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

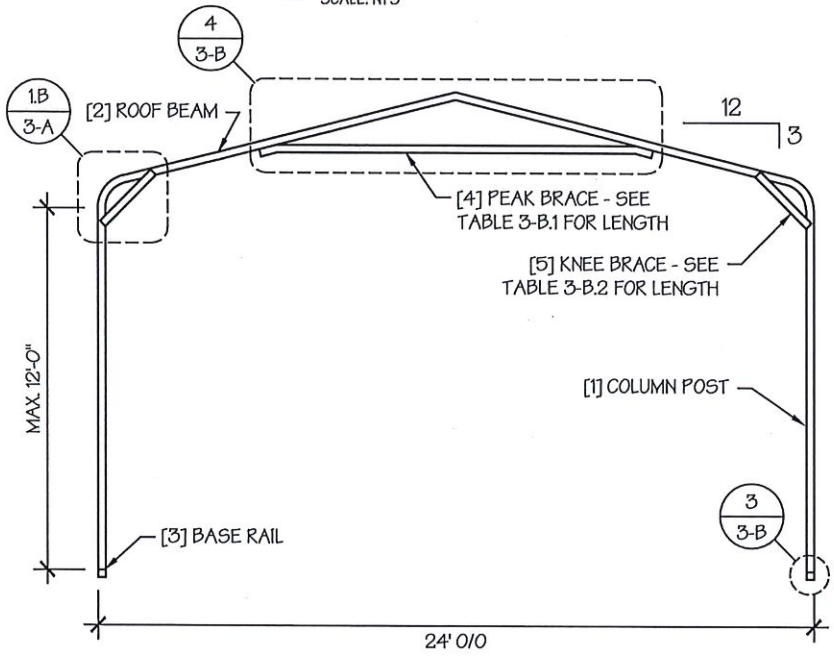
DATE SIGNED: 01-18-2023



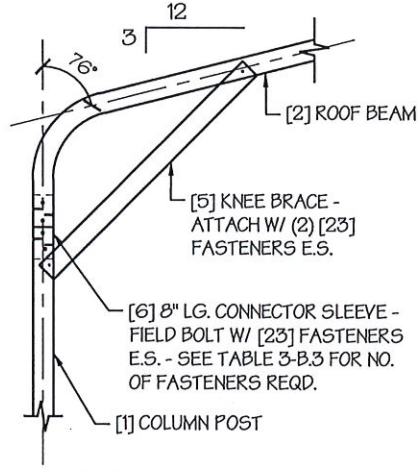
TYP. A-FRAME SECTION
SCALE: NTS



A. 'A'-FRAME



TYP. REGULAR FRAME SECTION
SCALE: NTS



B. REGULAR-FRAME

EAVE DETAIL 1
SCALE: NTS

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6036 Renaissance Place, Toledo, OH 43623
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www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: FRAME SECTIONS & DETAILS
SHEET NO.: 3-A / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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No. 14606
OMAR ABU-YASEIN

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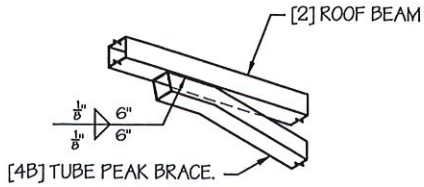
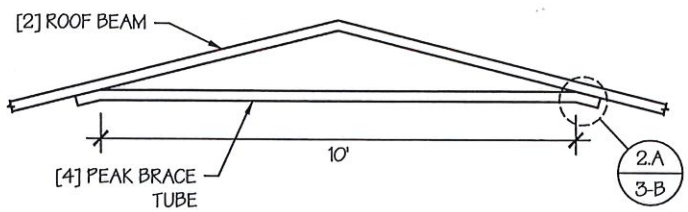
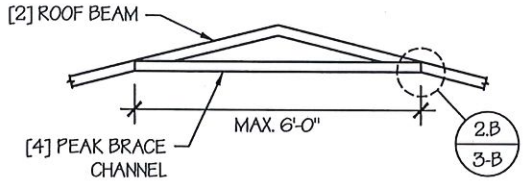


A. PEAK BRACE TUBE

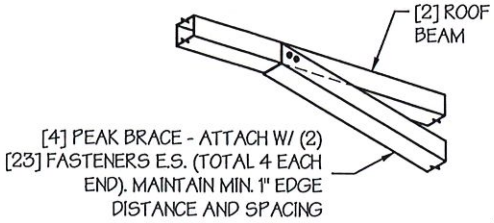


☐ A. WELDED PEAK BRACE



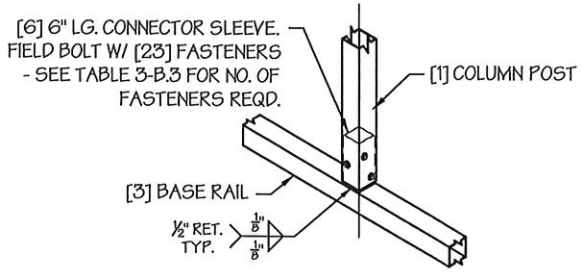
☐ B. CHANNEL PEAK BRACE

PEAK BRACE DETAILS (4)
SCALE: NTS



B. PEAK BRACE CHANNEL

PEAK BRACE CONNECTION DETAILS (2)
SCALE: NTS



BASE DETAIL (3)
SCALE: NTS

TABLE 3-B.1: PEAK BRACE SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	WIND SPEED	
	☐105 TO 130	☐140 TO 180
☐ 30 / 20	6'	10'
☐ 35 / 25 TO 90 / 61	10'	10'

TABLE 3-B.2: KNEE BRACE SCHEDULE

EAVE HEIGHT	KNEE BRACE LENGTH
☐UP TO 8'	24"
☐ 9' TO 12'	36"

TABLE 3-B.3 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
☐ 105 TO 125	4
☐ 130 TO 155	6
☐ 160 TO 180	8

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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CIVIL • STRUCTURAL
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Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: FRAME DETAILS
SHEET NO.: 3-B / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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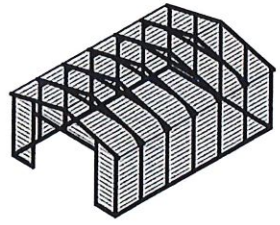
TABLE 4: FRAME SPACING CHART / SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ ENCLOSED BUILDINGS — WIND SPEED (MPH)							■ OPEN BUILDINGS — WIND SPEED (MPH)						
		☐105	☐115	☐130	☐140	☐155	☐165	☐180	☐105	☐115	☐130	☐140	☐155	☐165	☐180
■ EAVE HEIGHT = 10'-0" TO 12'-0"	☐30 / 20	60	60	54/60	54	42	42	36	48	48	48	42	36	30	24
	☐40 / 27	48/60	48/60	42/60	42/54	42	42	36	42	42	42	42	36	30	24
	☐50 / 34	40/48	40/48	40/48	40/48	40/42	40/42	36	30	30	30	30	30	30	24
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	24
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	18	18	18	18	18
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = 7'-0" TO 9'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	54	54	48/54	42/54	36/48	36	30
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	42	42	42	42	36/42	36	30
	☐50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	36	36	36	36	36	36	30
	☐60 / 41	36	36	36	36	36	36	36	30	30	30	30	30	30	30
	☐70 / 47	30	30	30	30	30	30	30	24	24	24	24	24	24	24
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---
■ EAVE HEIGHT = UP TO 6'-0"	☐30 / 20	60	60	54/60	54	48	42/48	42	60	54/60	48/60	42/54	36/48	36/42	36
	☐40 / 27	48/60	48/60	42/60	42/54	42/48	42/48	42	48	48	42/48	42/48	36/48	36/42	36
	☐50 / 34	40/48	40/48	40/48	40/48	40/48	40/48	40/42	40/42	40/42	40/42	40/42	36/42	36	36
	☐60 / 41	36	36	36	36	36	36	36	36	36	36	36	36	36	30
	☐70 / 47	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	☐80 / 54	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	☐90 / 61	---	---	---	---	---	---	---	---	---	---	---	---	---	---

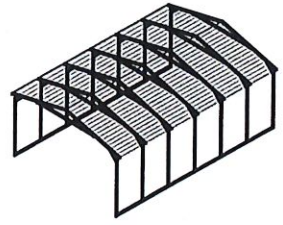
NOTES:
1. FRAME SPACINGS ARE IN UNITS OF INCHES (IN).
2. WHERE TWO VALUES ARE SHOWN, THE HIGHER VALUE CAN ONLY BE USED FOR VERTICAL SHEATHING.
3. SNOW LOADS AND ROOF LIVE LOADS ARE IN POUNDS PER SQUARE FOOT (PSF). WIND SPEED IS 3 SEC. GUST IN MILES PER HOUR (MPH).
4. FOR VALUES THAT LIE BETWEEN TWO CELLS, THE HIGHER (MORE STRINGENT) VALUE HAS TO BE USED. INTERPOLATION BETWEEN CELLS IS NOT ALLOWED.

ENCLOSURE CLASSIFICATION:

1. ENCLOSED BUILDING = ALL 4 WALLS FULLY ENCLOSED WITH DOORS/WINDOWS = USE ENCLOSED BUILDING SPACING CHART.
2. OPEN BUILDING = ALL 4 WALLS FULLY OPEN = USE OPEN BUILDING SPACING CHART.
3. 3FT PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ONLY 3FT ENCLOSED = USE OPEN BUILDING SPACING CHART.
4. PARTIALLY ENCLOSED = BOTH END-WALLS FULLY OPEN, WITH BOTH SIDE-WALLS ENCLOSED MORE THAN 3FT = START WITH OPEN BUILDING SPACING CHART AND THEN REDUCE SPACING BY 6".
5. 3 SIDED ENCLOSED = ALL WALLS ARE ENCLOSED EXCEPT FOR 1 END-WALL = START WITH ENCLOSED BUILDING SPACING + THE OPEN END FRAME MUST HAVE EITHER A GABLED END OR HAVE DOUBLED WELDED LEGS & ROOF.
6. FOR ALL SHEATHING ENCLOSURES NOT LISTED ABOVE, REFER TO SHEET 5 FOR SPACING AND DESIGN REQUIREMENTS.



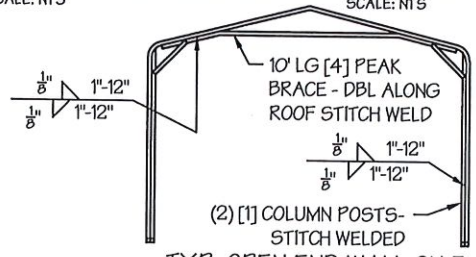
TYP. ENCLOSED BUILDING
SCALE: NTS



TYP. OPEN BUILDING
SCALE: NTS

GENERAL NOTES:

1. THE MAX. BUILDING LENGTH FOR ENCLOSED BUILDINGS IS 50'-0". THIS CAN BE INCREASED BY ADDING A DOUBLE FRAME AT THE CENTER TO BREAK THE LENGTH OF THE BUILDING.
2. BUILDINGS WITH PARTIALLY ENCLOSED END WALLS NEED TO HAVE SIDE WALL BRACING TO SUPPORT THE PARTIALLY ENCLOSED END WALL. (SEE FIGURE A ON SHEET 5).
3. ALL BUILDINGS WITH AN OPEN END WALL MUST HAVE A 10'-0" TUBE PEAK BRACE.



TYP. OPEN END WALL ON 3 SIDE ENCLOSED BUILDING
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SPACING SCHEDULES & ENCLOSURE NOTES
SHEET NO.: 4 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023

TABLE 5.1: PURLIN SPACING SCHEDULE

	GROUND SNOW / ROOF LIVE LOAD (PSF)	■ 14GA. HAT CHANNEL PURLIN — WIND SPEED (MPH)						
		□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
FRAME SPACING: ■ 5'-0"	□ 30 / 20	54	48	42	36	30	24	24
	□ 40 / 27	42	42	42	36	30	24	24
	□ 50 / 34	40	40	40	36	30	24	24
	□ 60 / 41	36	36	36	36	30	24	24
	□ 70 / 47	32	32	32	32	30	24	24
	□ 80 / 54	30	30	30	30	30	24	24
	□ 90 / 61	24	24	24	24	24	24	24
FRAME SPACING: ■ 4'-6"	□ 30 / 20	54	48	42	42	36	30	30
	□ 40 / 27	42	42	42	42	36	30	30
	□ 50 / 34	40	40	40	40	36	30	30
	□ 60 / 41	36	36	36	36	36	30	30
	□ 70 / 47	32	32	32	32	32	30	30
	□ 80 / 54	32	32	32	32	32	30	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 4'-0"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-6"	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30
FRAME SPACING: ■ 3'-0" OR LOWER	□ 30 / 20	54	48	42	42	36	36	30
	□ 40 / 27	42	42	42	42	36	36	30
	□ 50 / 34	40	40	40	40	36	36	30
	□ 60 / 41	36	36	36	36	36	36	30
	□ 70 / 47	32	32	32	32	32	32	30
	□ 80 / 54	32	32	32	32	32	32	30
	□ 90 / 61	30	30	30	30	30	30	30

NOTES:
1. PURLIN SPACING UNITS ARE IN INCHES.
2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)						
	□ 105	□ 115	□ 130	□ 140	□ 155	□ 165	□ 180
□ 5'-0"	60	48	36	30	24	24	18
□ 4'-6"	60	60	48	42	36	30	24
□ 4'-0"	60	60	54	54	42	36	30
□ 3'-6"	60	60	54	54	48	42	42
□ 2'-0" TO 3'-0"	60	60	54	54	48	42	42

NOTES:
1. GIRT SPACING UNITS ARE IN INCHES.
2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA
3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

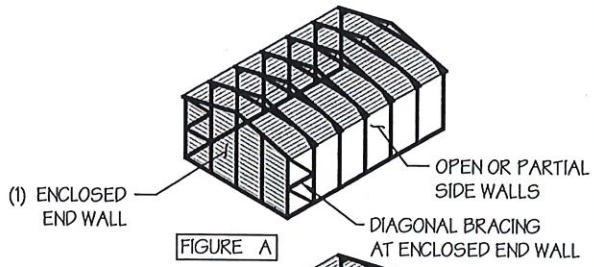

FIGURE A

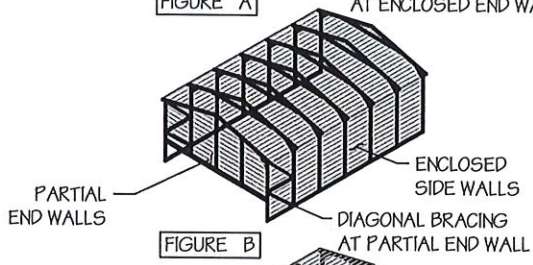

FIGURE B

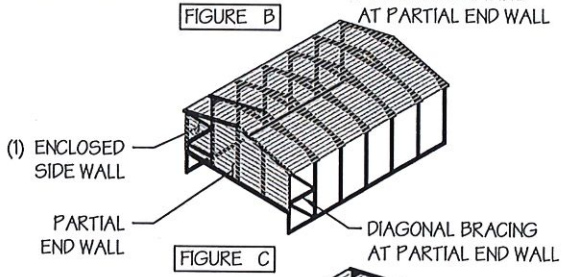

FIGURE C

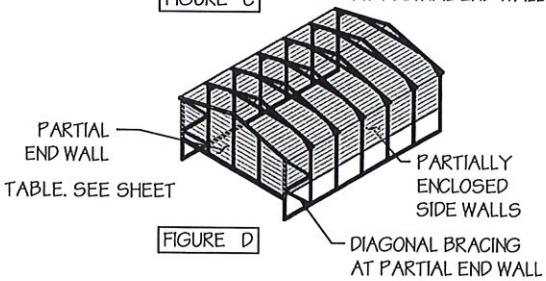

FIGURE D

IRREGULAR BUILDING NOTES:
1. FIGURES A, B, C & D ON THE RIGHT INDICATE EXAMPLES OF IRREGULAR BUILDINGS.
2. FOR IRREGULAR BUILDINGS, FRAME SPACING MUST BE REDUCED BY 6" FROM OPEN BUILDING SPACING TABLE. SEE SHEET 4 FOR OPEN BUILDING TABLE.
3. SITE SPECIFICS MAY ALLOW FOR ALTERNATIVE SPACING.
4. IRREGULAR BUILDING & BUILDINGS W/ MORE THAN 2 SIDE OPENINGS MUST HAVE A 10' TUBE PEAK BRACE ON ALL FRAMES.

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DRAWING INFORMATION

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LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: PURLIN & GIRT SPACING SCHEDULES
SHEET NO.: 5 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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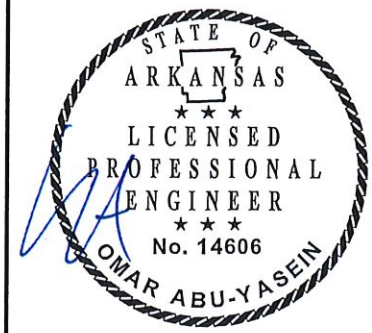

STAMP EXPIRY: 12-31-2024
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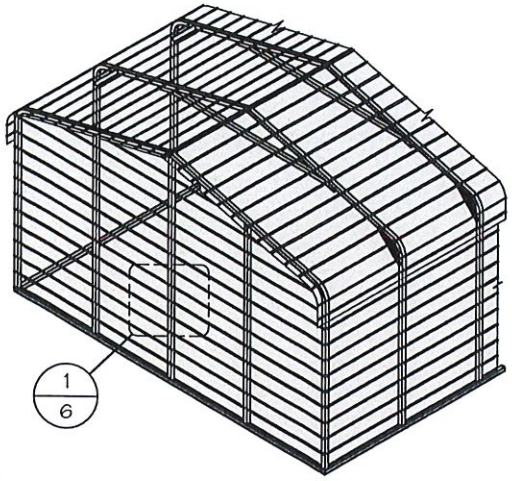
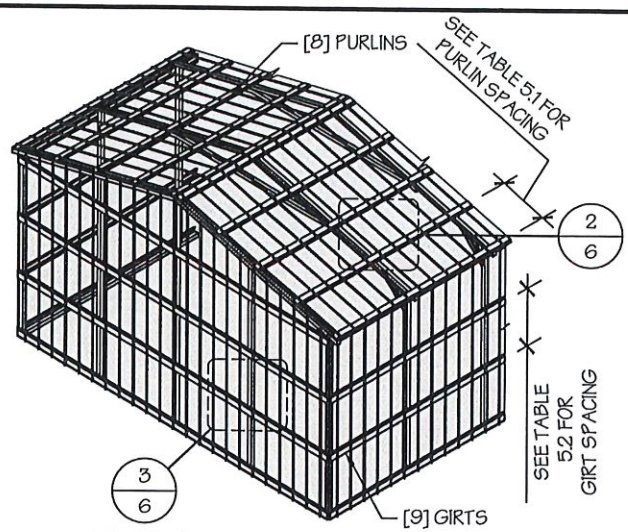


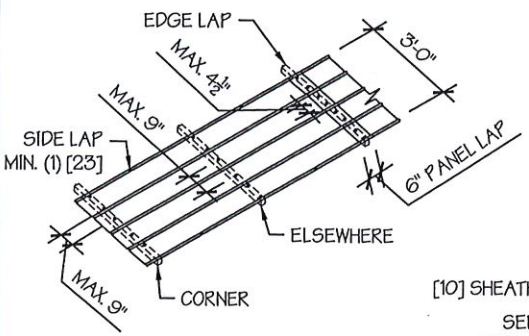
TYP. HORIZONTAL SHEATHING
SCALE: NTS



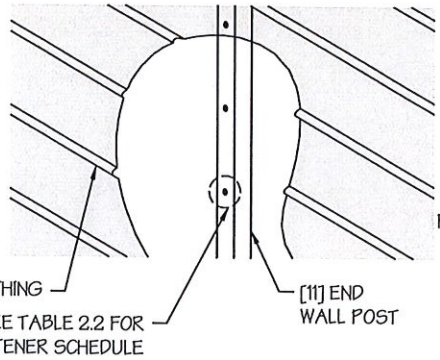
TYP. VERTICAL SHEATHING
SCALE: NTS

GENERAL SHEATHING NOTES:

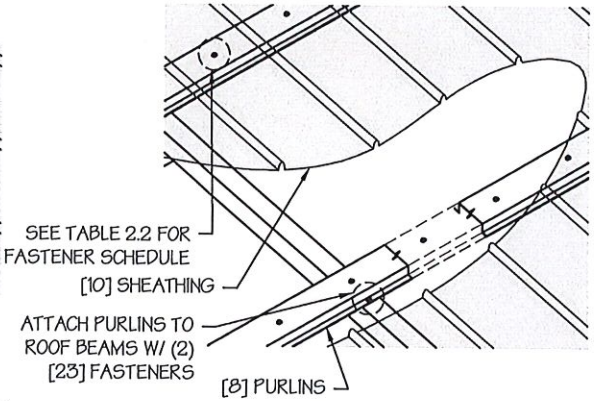
1. REGULAR STYLE BUILDINGS CAN ONLY HAVE HORIZONTAL SHEATHING ON ROOF AND WALLS.
2. A-FRAME STYLE BUILDINGS CAN HAVE ANY COMBINATION OF HORIZONTAL OR VERTICAL SHEATHING ON ROOFS AND WALLS.
3. BOTH HORIZONTAL AND VERTICALS ROOF SHEATHING CAN HAVE MAX. 6" OVERHANG.
4. USING VERTICAL SHEATHING MAY ALLOW FOR GREATER FRAME SPACING. SEE NOTE 2 UNDER TABLE 4.
5. VERTICAL SHEATHING RECOMMENDED FOR BUILDINGS 30' OR LONGER



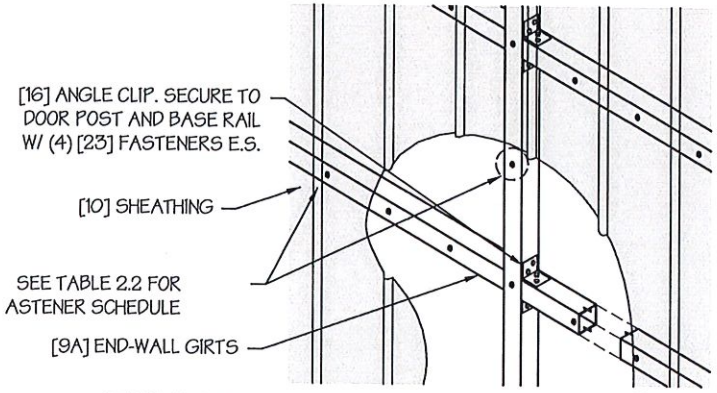
TYP. SHEATHING FASTENER SCHEDULE
SCALE: NTS



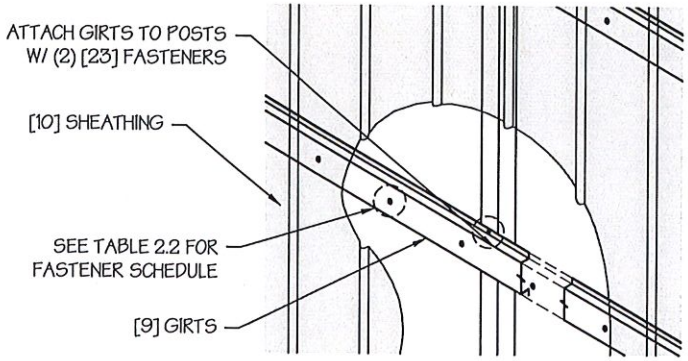
TYP. HORIZONTAL SHEATHING DETAIL 1
SCALE: NTS



ROOF VERTICAL SHEATHING DETAIL 2
SCALE: NTS



WALL VERTICAL SHEATHING - TUBE DETAIL 3
SCALE: NTS



WALL VERTICAL SHEATHING - HAT CHANNEL DETAIL 3
SCALE: NTS

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6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: SHEATHING OPTIONS & DETAILS
SHEET NO.: 6 / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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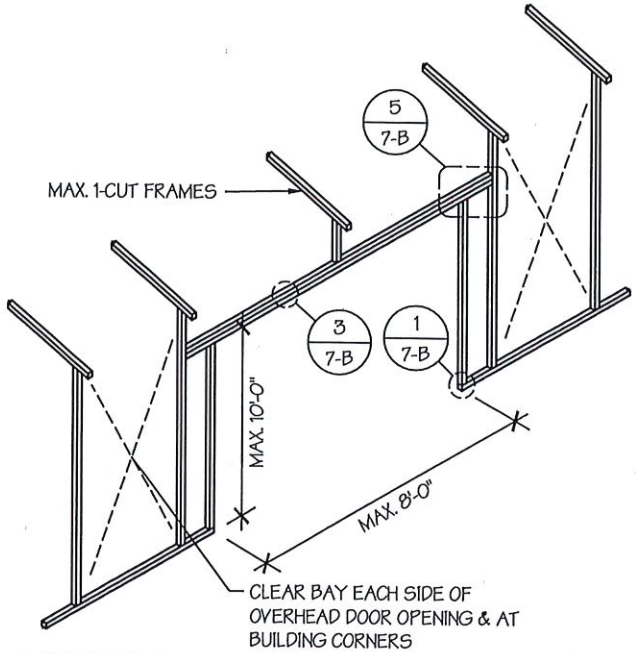
SEAL:

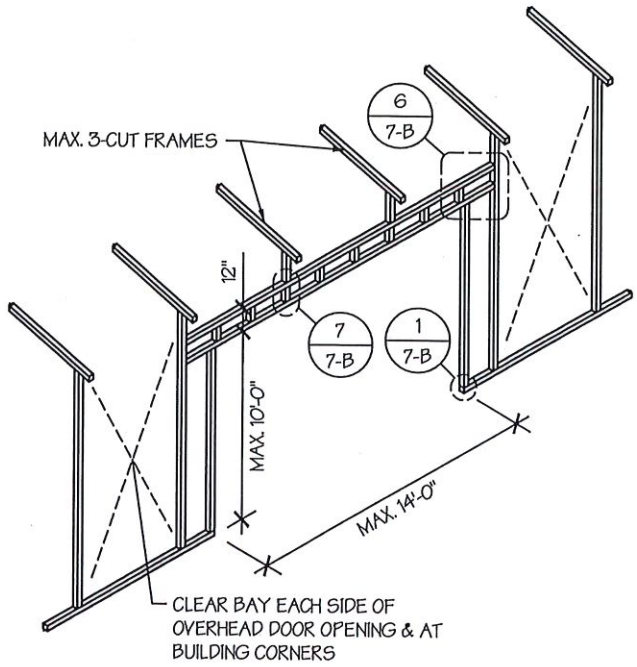
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023



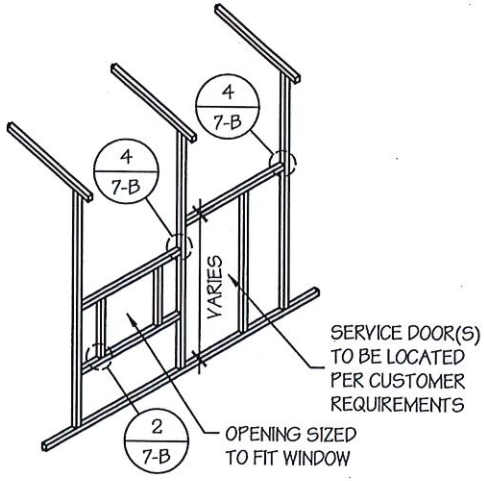
☐ SIDE WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



☐ SIDE WALL OVERHEAD DOOR OPENINGS WITH TRUSS STYLE HEADER

SCALE: NTS



☐ SIDE WALL SERVICE DOOR / WINDOW OPENINGS

SCALE: NTS

SIDE WALL FRAMING NOTES:

1. TRUSS-STYLE HEADERS ARE REQUIRED FOR WHERE THE GROUND SNOW LOAD IS 40 PSF OR GREATER.
2. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
3. MAX. HEIGHT OF SIDE WALL OVERHEAD DOOR OPENINGS IS 2 FT LESS THAN THE EAVE HEIGHT.
4. OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
5. MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
6. MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
7. SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE: SIDE WALL FRAMING & OPENINGS

SHEET NO.: 7-A / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

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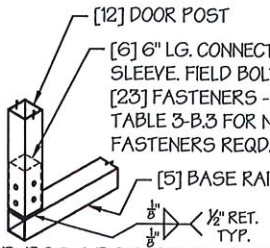
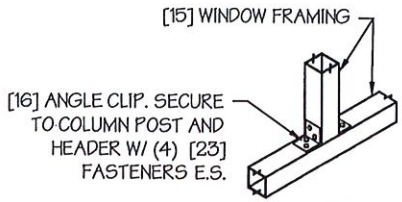


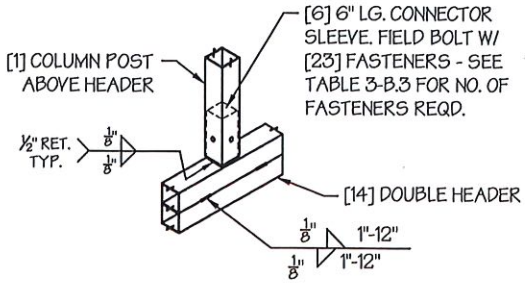
DOOR POST BOT. CONN. DETAIL (1)

SCALE: NTS



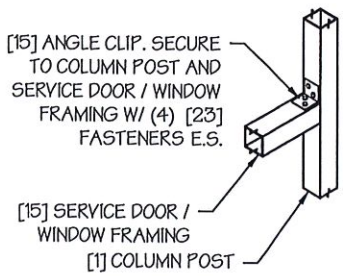
TYP. WINDOW FRAMING CONN. DETAIL (2)

SCALE: NTS



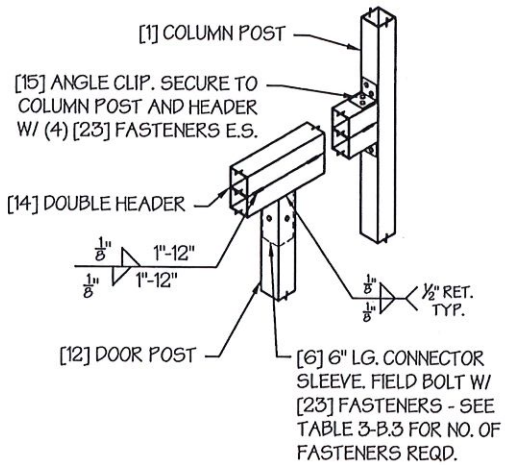
COLUMN POST ABOVE DBL. DOOR HEADER CONN. DETAIL (3)

SCALE: NTS



TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL (4)

SCALE: NTS



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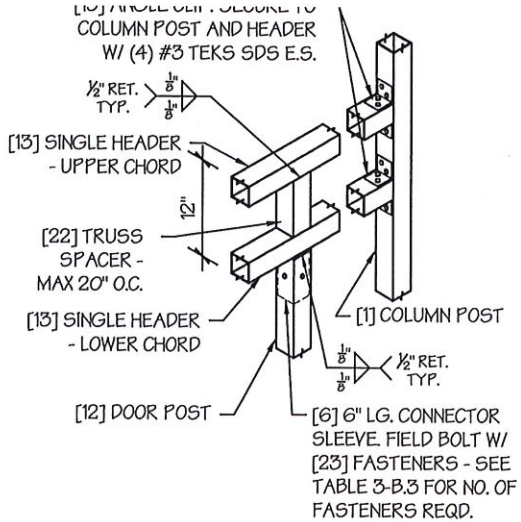
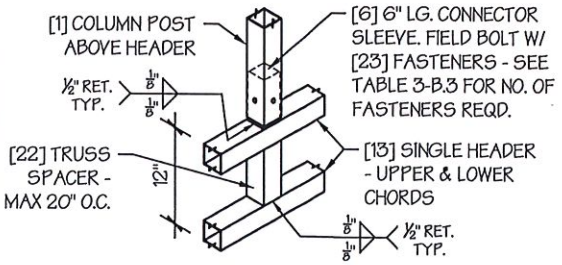


COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL (6)

SCALE: NTS



COLUMN POST ABOVE TRUSS DOOR HEADER CONN. DETAIL (7)

SCALE: NTS

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www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE: SIDE WALL FRAMING DETAILS

SHEET NO.: 7-B / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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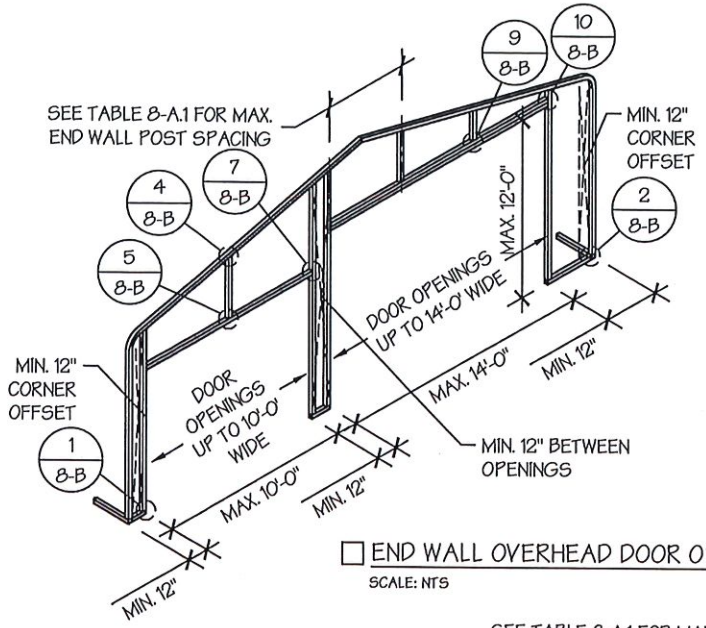
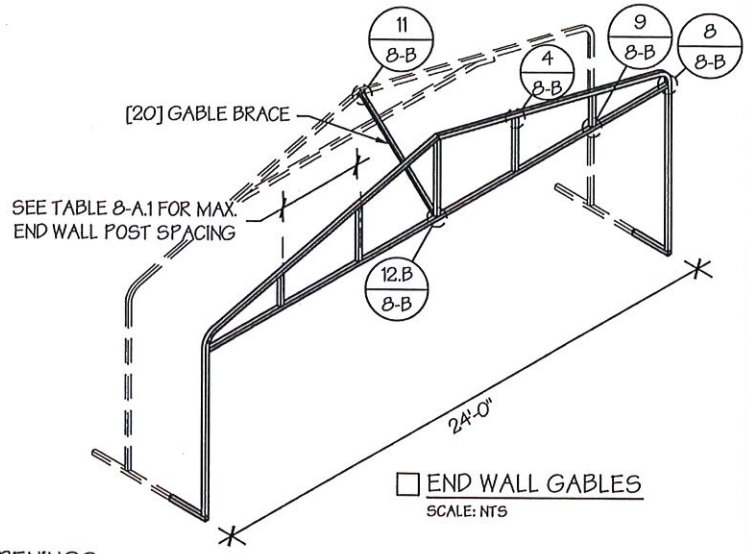


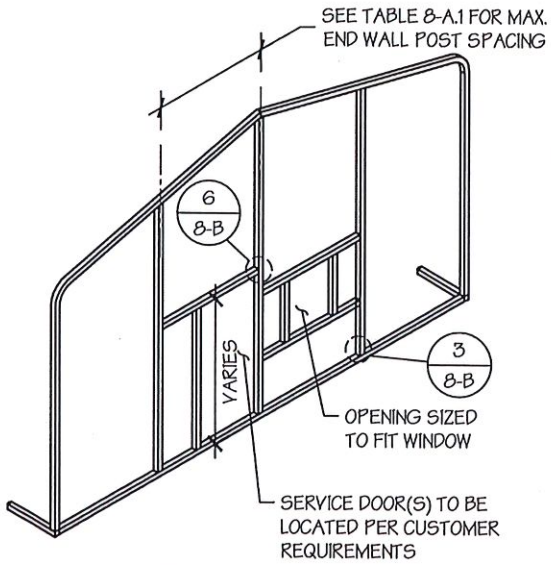
☐ END WALL OVERHEAD DOOR OPENINGS

SCALE: NTS



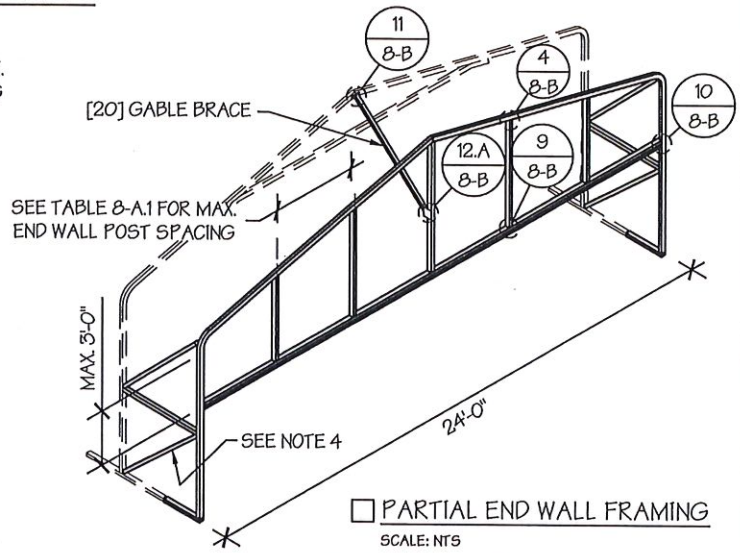
☐ END WALL GABLES

SCALE: NTS



☐ END WALL SERVICE DOOR AND WINDOW OPENINGS

SCALE: NTS



☐ PARTIAL END WALL FRAMING

SCALE: NTS

TABLE 8-A.1: END WALL POST SPACING SCHEDULE

WIND SPEED (MPH)	EAVE HEIGHT		
	■ UP TO 7'	■ 8' TO 9'	■ 10' TO 12'
☐ 105	5'	5'	5'
☐ 115	5'	5'	4.5'
☐ 130	4.5'	4.5'	4'
☐ 140	4.5'	4.5'	3'
☐ 155	4'	4'	2.5'
☐ 165 - 180	3.5'	3'	2'

END WALL FRAMING NOTES:

1. DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
2. MIN. 12" CLEARANCE MUST BE MAINTAINED BETWEEN ANY TWO OPENINGS (OVERHEAD DOOR OR SERVICE DOOR) AND FROM CORNERS.
3. SERVICE DOORS AND WINDOWS CAN BE PLACED AS NEEDED.
4. DIAGONAL BRACES NEED TO BE ADDED FOR PARTIAL END WALL ENCLOSURES. SEE SHEET 9 FOR DIAGONAL BRACE CONNECTION DETAILS.

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE:

END WALL FRAMING

SHEET NO.: 8-A / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

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No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

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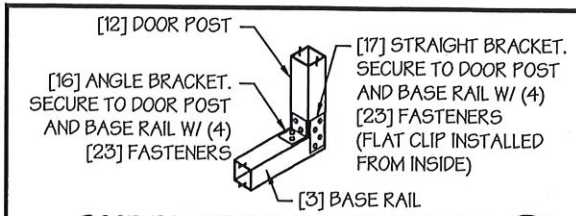

DOOR POST BASE RAIL CONN. DETAIL (1)
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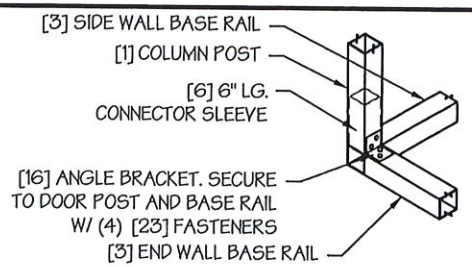

CORNER DETAIL (2)
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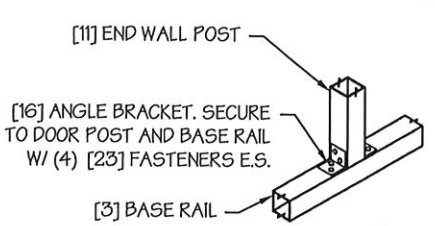

END WALL POST - BASE RAIL CONN. DETAIL (3)
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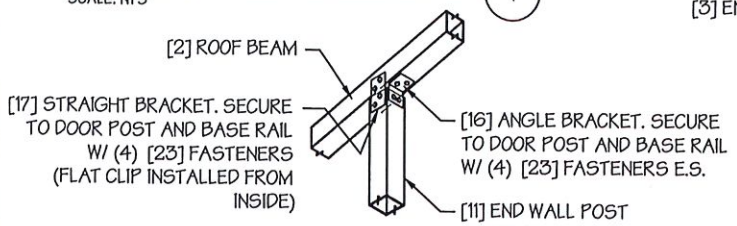

END WALL POST - ROOF BEAM CONN. DETAIL (4)
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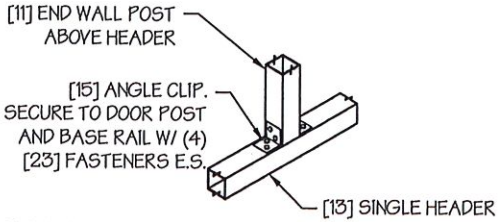

END WALL POST ABOVE HEADER CONN. DETAIL (5)
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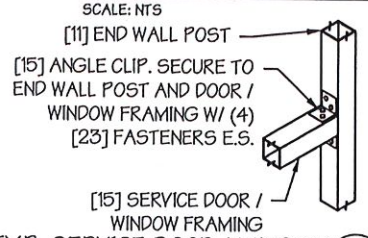

TYP. SERVICE DOOR / WINDOW FRAMING CONN. DETAIL (6)
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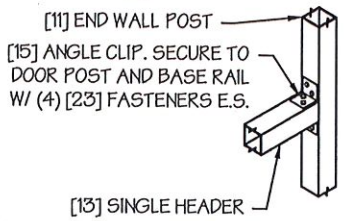

HEADER - END WALL POST CONN. DETAIL (7)
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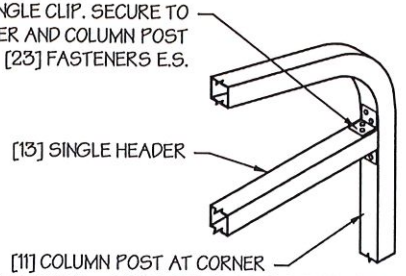

GABLE HEADER - CORNER POST CONN. DETAIL (8)
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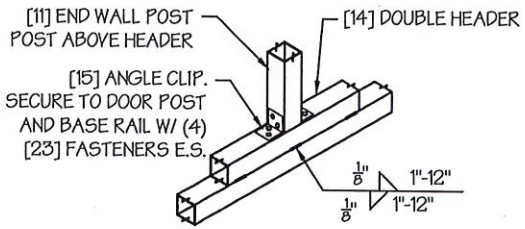

END WALL POST ABOVE DOUBLE HEADER CONN. DETAIL (9)
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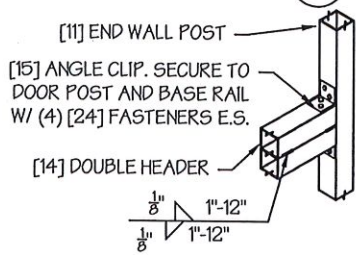

DOUBLE HEADER - END WALL POST CONN. DETAIL (10)
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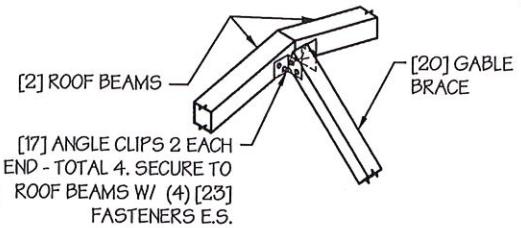

TYP. GABLE BRACE CONN. DETAIL (11)
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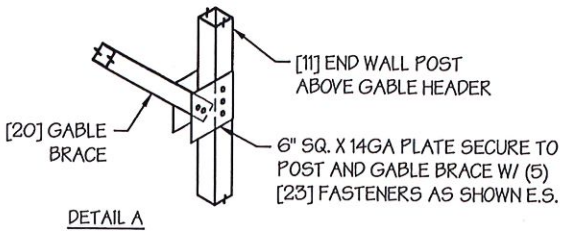

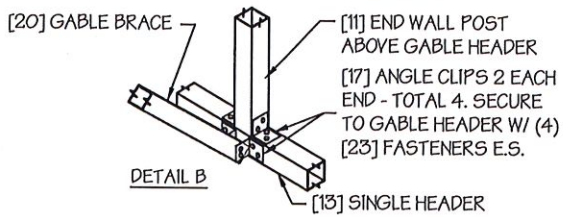

GABLE BRACE - END WALL CONN. DETAIL (12)
SCALE: NTS

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DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS
LOCATION: STATE OF ARKANSAS
PROJECT NO.: 033-23-0101
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: 8-B / 11
DRAWN BY: A.W. DATE: 1/22/21
CHECKED BY: OAA DATE: 1/22/21

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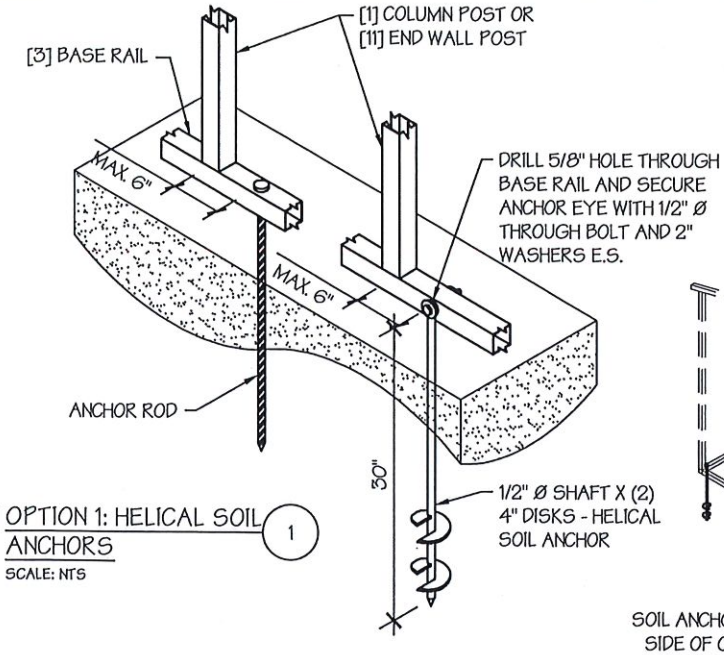
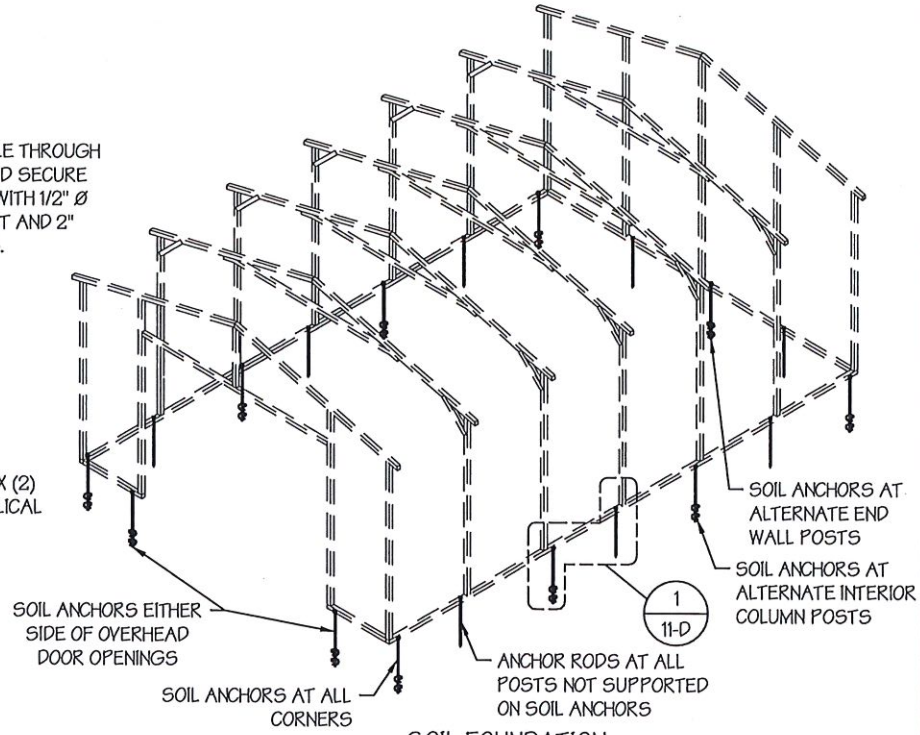
STAMP EXPIRY: 12-31-2024
DATE SIGNED: 01-18-2023



☐ OPTION 1: HELICAL SOIL ANCHORS (1)

SCALE: NTS



SOIL FOUNDATION

SCALE: NTS

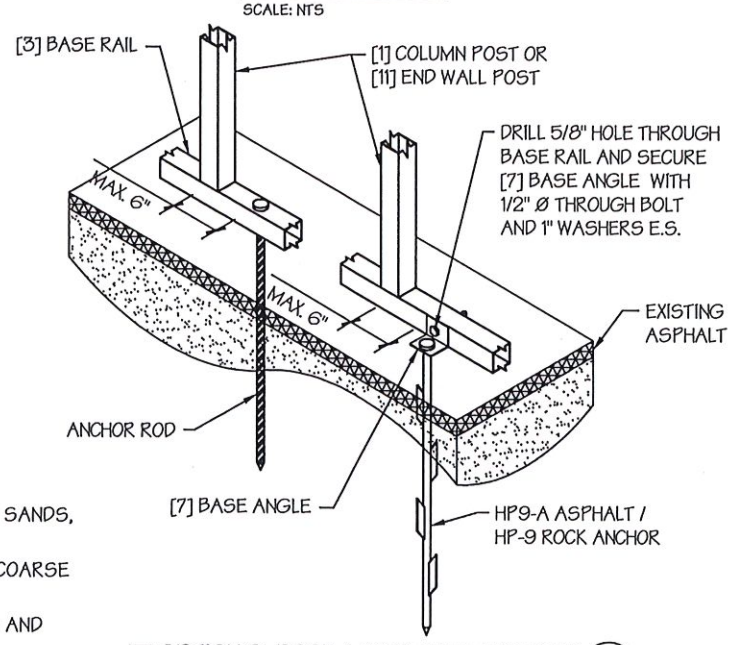
SOIL FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION.
2. SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS, ON POSTS WITH DIAGONAL BRACING IF REQUIRED, AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
3. HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
4. HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
5. ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A PRE-FORMED HEAD AT THE TOP AND ONE COAT OF RUST PROOF MATERIAL.
6. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

SOIL CLASSIFICATIONS:

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLES, PRELOADED SILTS, CLAYS AND CORAL.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

*FROM HUD *"MODEL MANUFACTURED HOME INSTALLATION STANDARDS"*



☐ OPTION 2: ROCK / ASPHALT ANCHORS (1)

SCALE: NTS

MANUFACTURED BY:

AMERICAN STEEL CARPORTS INC

457 N. Broadway,
Joshua, TX 76058
1-866-730-9865

ENGINEERED BY:

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place, Toledo, OH 43623
Tel. 419-292-1983 • Fax. 419-292-0955
www.aa-engineers.com

DRAWING INFORMATION

PROJECT: 24'-0" WIDE BUILDINGS

LOCATION: STATE OF ARKANSAS

PROJECT NO.: 033-23-0101

SHEET TITLE: FOUNDATION OPTION 4: SOIL ANCHORS

SHEET NO.: 11-D / 11

DRAWN BY: A.W. DATE: 1/22/21

CHECKED BY: OAA DATE: 1/22/21

LEGAL INFORMATION

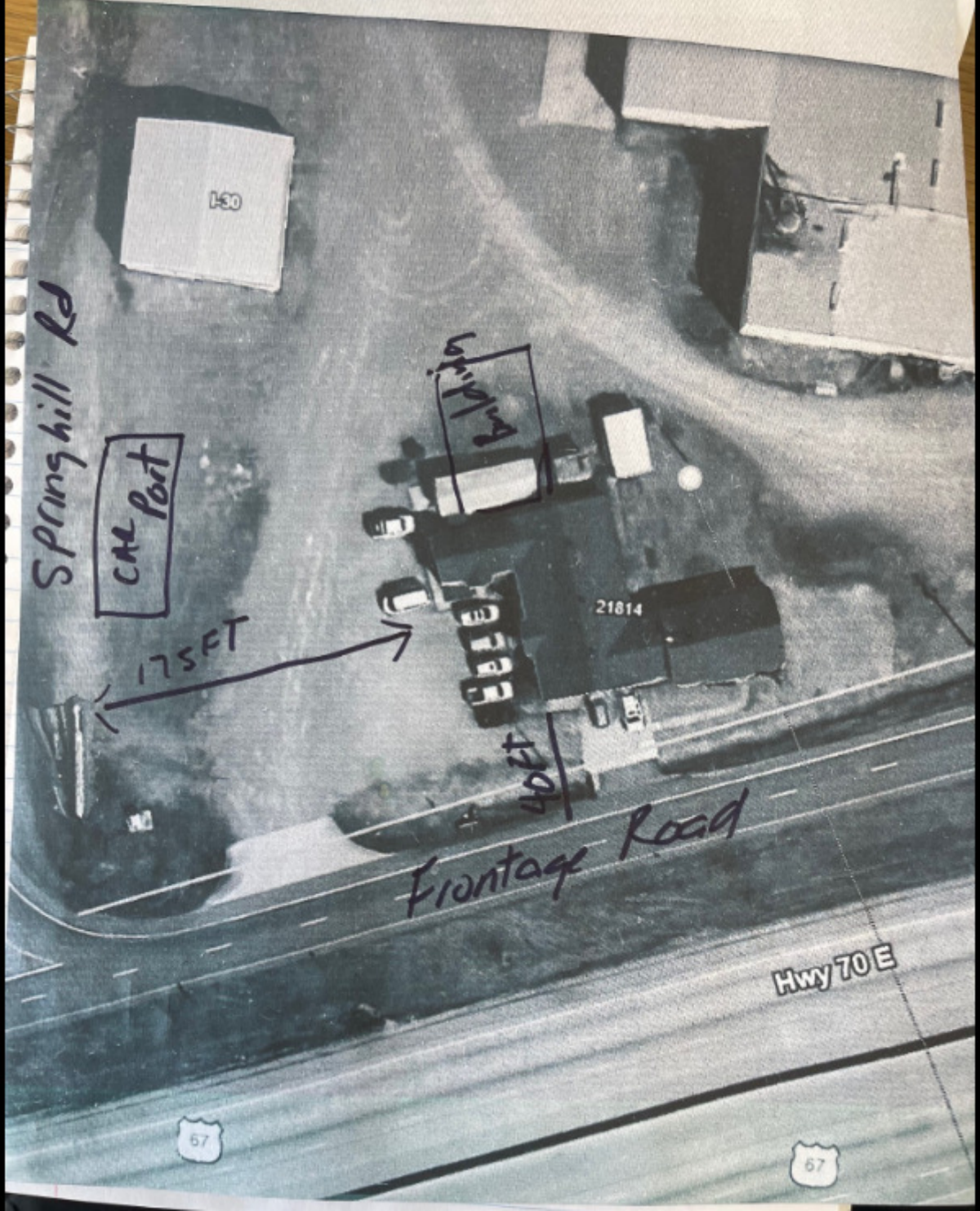
- ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW.
- DRAWINGS VALID UP TO DATE OF EXPIRATION.

SEAL:

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14606
OMAR ABU-YASEIN

STAMP EXPIRY: 12-31-2024

DATE SIGNED: 01-18-2023


I-30
Springhill Rd
CM Port
175FT
Bldg
21814
400ft
Frontage Road
Hwy 70 E
67
67

Not A Legal Survey
50.0'
24.0'
840-14966-000
2.04
66.0'
40.0'
24.0'
40.0'
Approx. B.S.L. 50'
50.0'
24.0'
30.0'
24.0'
30.0'
840-14899-000
6.66
Springhill Rd
I-30 Hwy
N
W
E
S
0 15 30 60 90 120
ft
I-30
Springhill Rd
CML Port
175FT
21814
Frontage Road

GNE Designing our client's success

P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650

3825 Mt Carmel Rd
Bryant, AR 72022
garnatengineering@gmail.com

FOR EXCLUSIVE USE & BENEFIT OF:

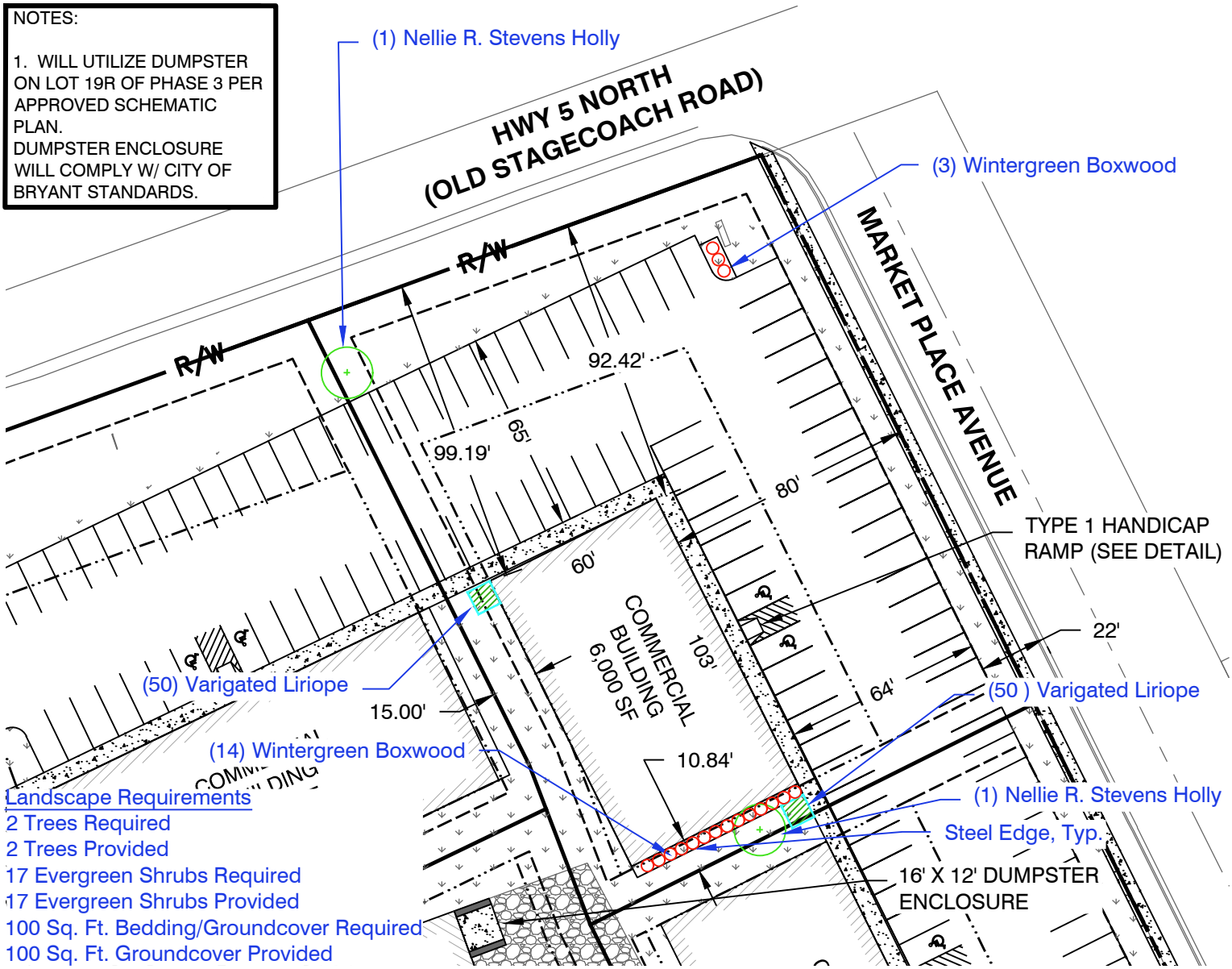
Name: BART FERGUSON

LEGEND

- Computed point
- Found monument
- Set #4 RB/Plas. Cap
- (M)-Measured
- (R)-Record
- (P)-Platted

NOTES:

1. WILL UTILIZE DUMPSTER ON LOT 19R OF PHASE 3 PER APPROVED SCHEMATIC PLAN.
DUMPSTER ENCLOSURE WILL COMPLY W/ CITY OF BRYANT STANDARDS.



Landscape Requirements
2 Trees Required
2 Trees Provided
17 Evergreen Shrubs Required
17 Evergreen Shrubs Provided
100 Sq. Ft. Bedding/Groundcover Required
100 Sq. Ft. Groundcover Provided

PROPERTY DESCRIPTION:

LOT 17R

50' 25' 0 50'

JOB NUMBER:

18087
MARKET PLACE II
PHASE 3

10/03/24

PLOT PLAN

This Plot Plan depicts the lot as it appears on the subdivision final plat. This drawing does not represent an actual survey.

According the the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Saline County unincorporated areas, panel # 05125C0240E dated JUNE 05, 2020 , no portion , dated of the property described hereon does lie within the 100 year flood hazard boundary.

N

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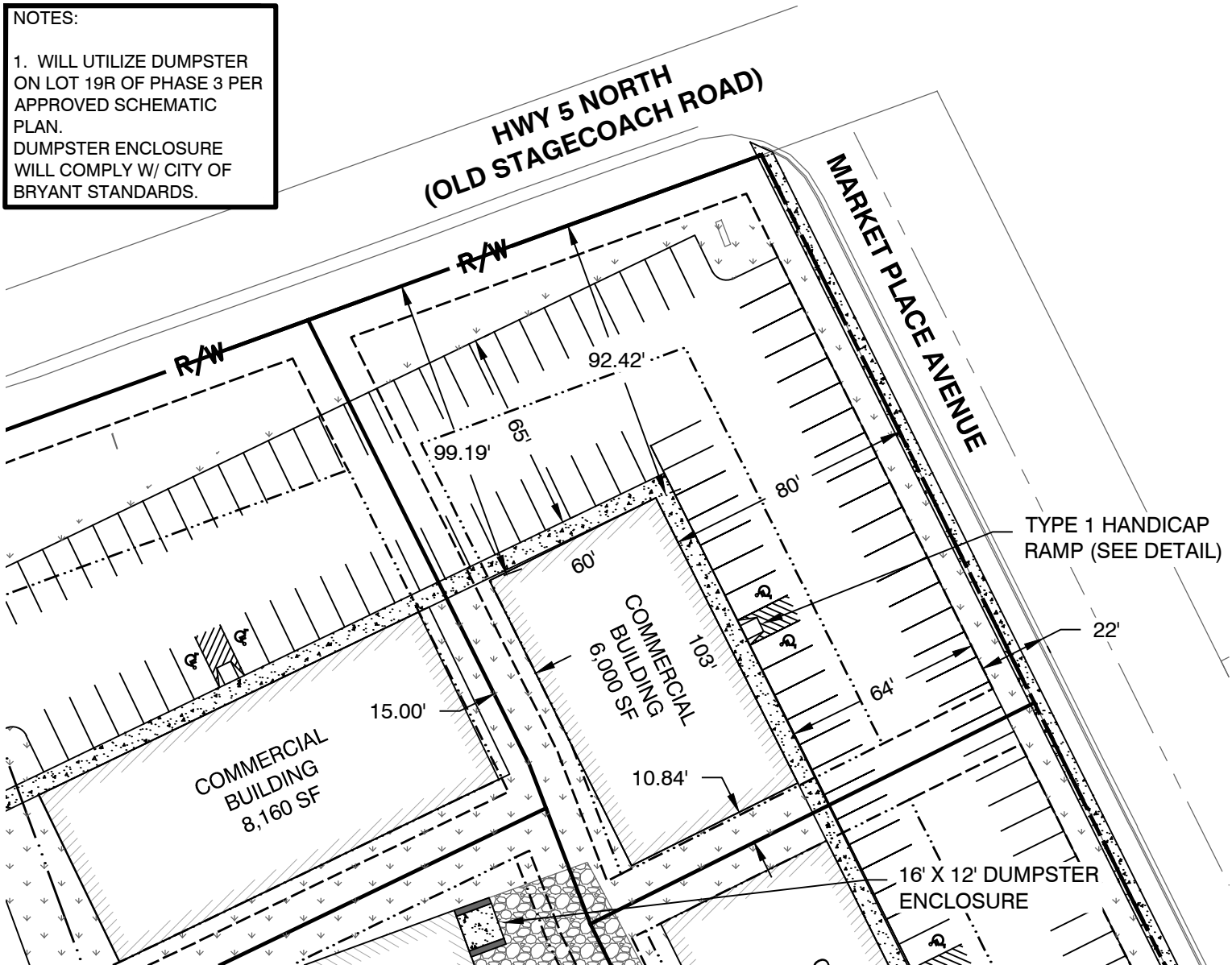

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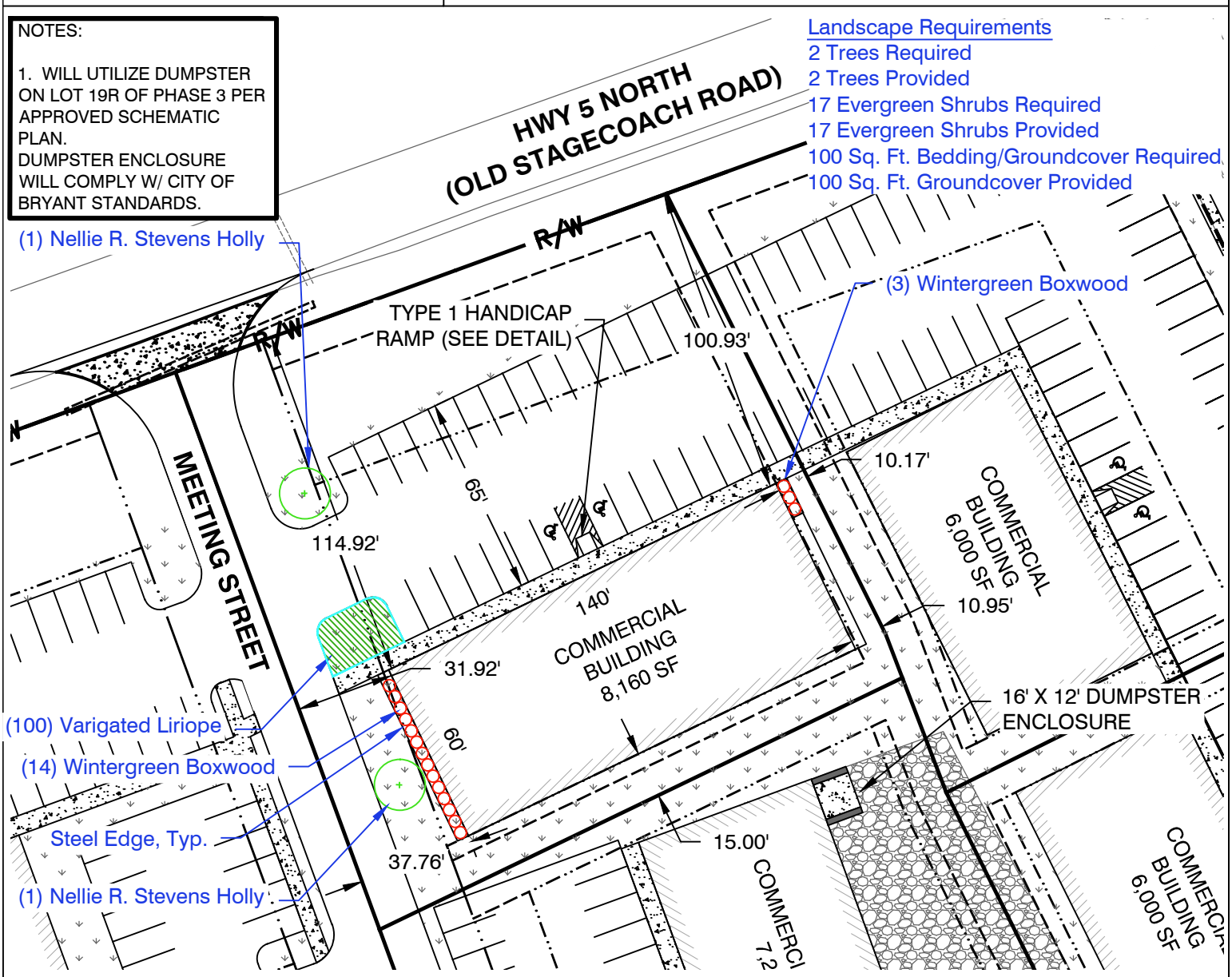

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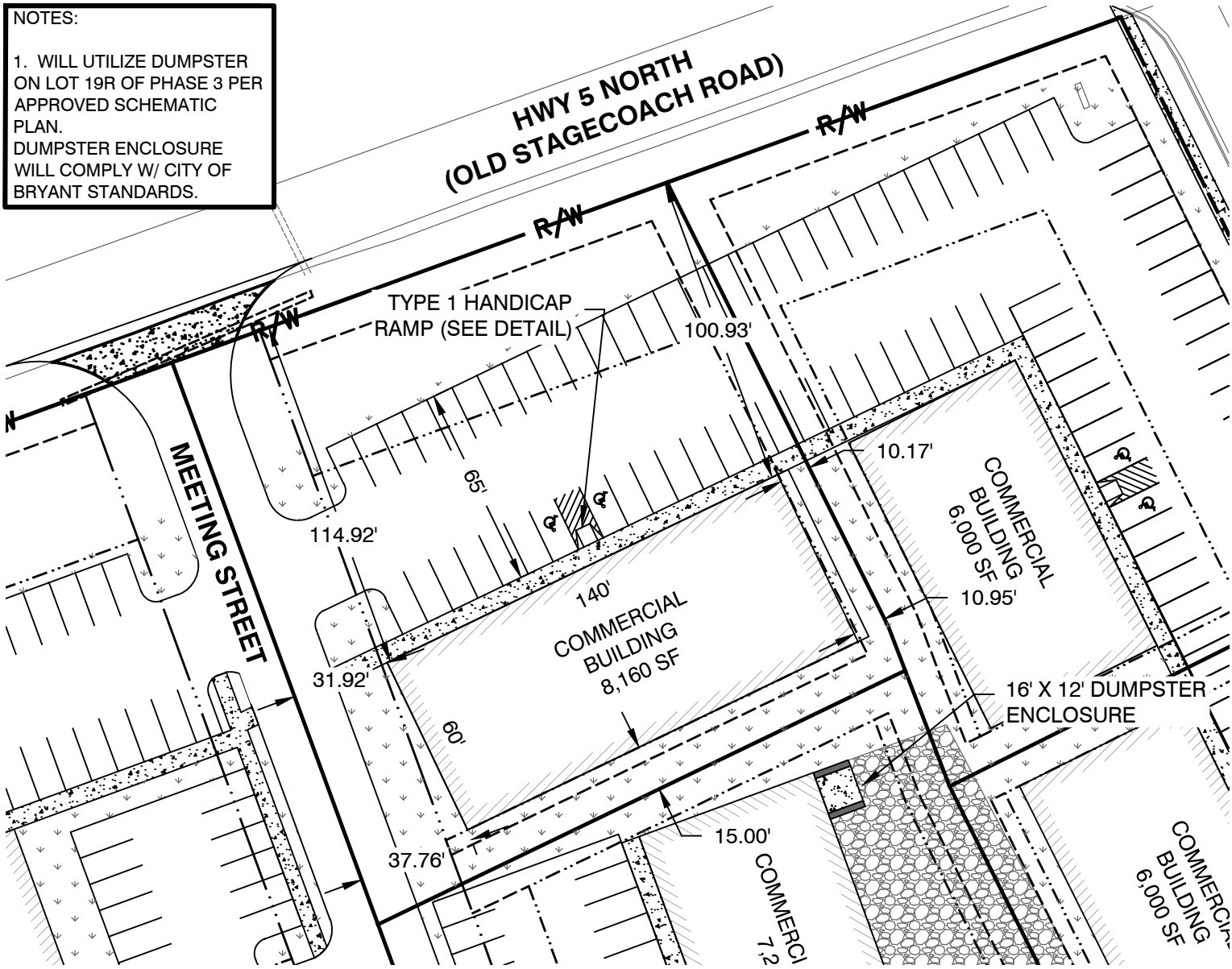

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N

HAWKINS VALLEY

SALINE COUNTY, ARKANSAS

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity
for Large Construction Sites

National Pollutant Discharge Elimination System (NPDES)
General Permit # ARR150000

Prepared for:
Thomas D.B. Collins LTD LLC

Date:
09-11-2024

Prepared by:
GarNat Engineering, LLC

Revised date: 10/20/2016

Project Name and Location: Hawkins Valley

Property Parcel Number (*Optional*): 001-03424-001, 001-03423-000, 001-03421-000, 001-03457-001

Operator Name and Address: Thomas D.B. Collins LTD, LLC, 9360 Gilbert Road, Benton, AR 72019.

A. Site Description
   a. Project description, intended use after NOI is filed: Residential Subdivision
   b. Sequence of major activities which disturb soils: Clearing, Construction, Stabilization
   c. Total Area[1]: 45.53 Acres Disturbed Area[2]: 16.81 Acres
   d. Soils Information:
      i. Runoff Coefficient Pre-Construction (See Appendix A) : 0.40
      ii. Runoff Coefficient Post-Construction (See Appendix A) : 0.60
      iii. Describe the soil or the quality of any discharge from the site: Carnasaw-Townley association, undulating and Zafra-Leadvale complex, 3 to 8 percent slopes

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 revisions, Stabilization Activities, BMP Maintenance, etc.)
Phillip Pengelly	501-249-3378	Owner
Lee Pengelly	501-680-0970	Operator

C. Receiving Waters
   a. The following waterbody (or waterbodies) receives stormwater from this construction site: Unnamed tributary of Owen Creek, Owen Creek, Fourche Creek, Arkansas River
   b. Is the project located within the jurisdiction of an MS4? ☒Yes ☐No
      i. If yes, Name of MS4: Saline County
   c. Ultimate Receiving Water:

☐Red River ☐White River
☐Ouachita River ☐St. Francis River
☒Arkansas River ☐Mississippi River

[1]Increases in total acreage require an additional acreage request, an updated SWPPP and a $200 modification fee to be submitted to ADEQ.
[2]Increases in only disturbed acreage require an additional acreage request and an updated SWPPP to be submitted to ADEQ.

D. Documentation of Permit Eligibility Related to the 303(d) list and Total Maximum Daily Loads (TMDL) (https://www.adeq.state.ar.us/water/planning/)
   a. Does the stormwater enter a waterbody on the 303(d) list or with an approved TMDL? ☐Yes ☒No
   b. If yes:
      i. Waterbody identified on 303(d) list: Fourche Creek
      ii. Pollutant addressed on 303(d) list or TMDL: DO
      iii. This specific project ,or generally construction activity i.e. surface erosion, is identified on 303(d) list or associated assumptions and allocations identified in the TMDL for the discharge: ☒Yes ☐No
      iv. Additional controls implemented: Silt fences, Sediment Basin

E. Attainment of Water Quality Standards After Authorization
   a. The permittee must select, install, implement, and maintain BMPs at the construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained below, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.
   b. At any time after authorization, the Department 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, the Department will require the permittee to:
      i. 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
      ii. Cease discharges of pollutants from construction activity and submit an individual permit application.

   I understand and agree to follow the above text regarding the attainment of water quality standards after authorization. ☒Yes ☐No

F. Site Map Requirements (Attach Site Map):

a. Pre-construction topographic view **<u>is shown on the Erosion Control Plan. Other items listed below are also shown on the Erosion Control Plan.</u>**
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) with associated natural buffer boundary lines. Identify floodplain and floodway boundaries, if available;
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.

G. Stormwater Controls
a. Initial Site Stabilization, Erosion and Sediment Controls, and Best Management Practices:
i. Initial Site Stabilization: <u>Diversion ditches, Construction entrance/exits, Silt fences.</u>
ii. Erosion and Sediment Controls: <u>Construction entrance/exits, Silt fences, Sediment basin.</u>
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 ☐No

If No, explain: _____

_____

iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts: ☒Yes ☐No

If No, explain: _____

_____

v. Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%: ☒Yes ☐No

If No, explain: _____

_____

vi. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges: ☒Yes ☐No

If No, explain: _____

_____

vii. Off-site material storage areas used solely by the permitted project are being covered by this SWPPP: ☐Yes ☒No

If Yes, explain additional BMPs implemented at off-site material storage area: _____

_____

b. Stabilization Practices

i. Description and Schedule: As soon as practical, the contractor will spread topsoil and seed the disturbed area with perennial vegetation. Vegetation will be reseeded as required to establish the 80% coverage of perennial vegetation.

ii. Are buffer areas required? ☒Yes ☐No

If Yes, are buffer areas being used? ☒Yes ☐No

If Yes, describe natural buffer areas: During the construction of the subdivision infrastructure, an undisturbed buffer will be maintained between the creek and the perimeter property line of the subdivision.

If No, explain why not:_____

_____

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 included with the plan. ☒Yes ☐No

If No, explain: _____

_____

iv. Deadlines for stabilization:
   1. Stabilization procedures will be initiated 14 days after construction activity temporarily ceases on a portion of the site.
   2. Stabilization procedures will be initiated immediately in portions of the site where construction activities have permanently ceased.

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: BMPs shown on the Erosion Control Plan will used to limit sediment from leaving the site.
   ii. Describe Velocity Dissipation Devices: Silt Barriers_____
   iii. Sediment Basins:

Are 10 or more acres draining to a common point? ☒Yes ☐No

Is a sediment basin included in the project? ☒Yes ☐No

If Yes, what is the designed capacity for the storage?

☒3600 cubic feet per acre = : 36000 cubic feet for 10 acres___

or

☐10 year, 24 hour storm = :_____

☐ Other criteria were used to design basin: _____

_____

If No, explain why no sedimentation basin was included and describe required natural buffer areas and other controls implemented instead: _____

_____

H. Other Controls
   a. Solid materials, including building materials, shall be prevented from being discharged to Waters of the State: ☒Yes ☐No
   b. Off-site vehicle tracking of sediments and the generation of dust shall be minimized through the use of:

☒A stabilized construction entrance and exit

☐Vehicle tire washing

☒Other controls, describe: The road adjacent to property will be swept to remove offsite vehicle tracks. Disturbed areas will be watered during construction to prevent dust.

   c. Temporary Sanitary Facilities: A Portable toilets will be provided. The location is shown on the Erosion Control Plan. Waste from Portable toilets handled by a sanitation company that pumps out the waste and takes it to a treatment facility.

d. Concrete Waste Area Provided:
☒Yes
☐No. Concrete is used on the site, but no concrete washout is provided.
Explain why: _____
_____
☐N/A, no concrete will be used with this project

e. Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas: Equipment will be fueled using truck mounted storage tanks. Equipment will be washed at contractor's shop. No hazardous materials will be maintained on site.

I. Non-Stormwater Discharges

a. The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:
☐Fire-fighting activities;
☒Fire hydrant flushings;
☒Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.H.2;
☒Potable water sources including uncontaminated waterline flushings;
☒Landscape Irrigation;
☒Routine external building wash down which does not use detergents or other chemicals;
☒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 or other chemicals are not used;
☒Uncontaminated air conditioning, compressor condensate (See Part I.B.13.C of the permit);
☒Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.13.C of the permit);
☒Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.13.C of the permit);

b. Describe any controls associated with non-stormwater discharges present at the site: The same controls used for stormwater will be used for non-stormwater such as Construction entrance/exits, Silt fencing and Sediment basin.

J. Permanent Controls for Post-Construction Stormwater Management:
Describe measures installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed: Post-construction stormwater management will be achieved by final stabilization and subsequent removal of temporary sediment and erosion control items.

K. 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. ☒Yes ☐No

L. Inspections

a. Inspection frequency:

☒Every 7 calendar days

or

☐At least once every 14 calendar days and within 24 hours of the end of a storm even 0.25 inches or greater (a rain gauge must be maintained on-site)

b. Inspections:

Completed inspection forms will be kept with the SWPPP.

☒ADEQ's inspection form will be used (See Appendix B)

or

☐A form other than ADEQ's inspection form will be used and is attached (See inspection form requirements Part II.A.4.L.2)

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.4)

ii. Adverse Weather Conditions (Part II.A.4.L.5)

M. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition will be followed: Built-up sediment will be removed from silt fencing when it has reached 1/3 of the height of the fence. Silt fences will be inspected for depth of sediment, tears, fabric attachment to the fence posts, and to see that the fence posts are firmly in the ground. Temporary and permanent seeding will be inspected for bare spots, washouts, and healthy growth. Entrance will be inspected for sediment tracked on roads.

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.

N. Employee Training:

The following is a description of the training plan for personnel (including contractors and subcontractors) on this project: Operator will submit proof of training to engineer. Engineer will provide additional training as required to ensure that SWPPP is properly implemented.

**Note, 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.

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: OWNER

Date: 9/20/2024

Computation Sheet for Determining Runoff Coefficients

Appendix A

Total Site Area =	16.81 Acres	[A]

Existing Site Conditions

Impervious Site Area [1] =	Acres	[B]
Impervious Site Area Runoff Coefficient [2, 4] =		[C]
Pervious Site Area [3] =	16.81 Acres	[D]
Pervious Site Area Runoff Coefficient [4] =	0.40	[E]

Pre-Construction Runoff Coefficient

$$\frac{[B \times C] + [D \times E]}{[A]} = 0.40$$

This is your pre-construction runoff coefficient.

Proposed Site Conditions (after construction)

Impervious Site Area [1] =	Acres	[F]
Impervious Site Area Runoff Coefficient [2, 4] =		[G]
Pervious Site Area [3] =	16.81 Acres	[H]
Pervious Site Area Runoff Coefficient [4] =	0.60	[I]

Post-Construction Runoff Coefficient

$$\frac{[F \times G] + [H \times I]}{[A]} = 0.60$$

This is your post-construction runoff coefficient.

1. Includes paved areas, areas covered by buildings, and other impervious surfaces.
2. Use 0.95 unless lower or higher runoff coefficient can be verified.
3. Includes areas of vegetation, most unpaved or uncovered soil surfaces, and other pervious areas.
4. Refer to local Hydrology Manual for typical C values.

Note: The impervious and pervious surfaces should equal the total area.

ARR150000 Inspection Form Appendix B

Inspector Name: _____ Date of Inspection: _____
Inspector Title: _____

Date of Rainfall:_____ Duration of Rainfall: _____
Days Since Last Rain Event: _____ days Rainfall Since Last Rain Event: _____ inches

Description of any Discharges During Inspection: _____
Location of Discharges of Sediment/Other Pollutant (specify pollutant & location): _____
_____

Locations in Need of Additional BMPs: _____

Information on Location of Construction Activities

Location	Activity Begin Date	Activity Occuring Now (y/n)?	Activity Ceased Date	Stabilization Initiated Date	Stabilization Complete Date

Information on BMPs in Need of Maintenance

Location	In Working Order?	Maintenance Scheduled Date	Maintenance Completed Date	Maintenance to be Performed By

Changes required to the SWPPP: _____ Reasons for changes: _____
_____ _____
_____ _____
SWPPP changes completed (date): _____

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Signature of Responsible or Cognizant Official: _____ Date:_____

Title: _____

BMP Consideration Checklist

Appendix C

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP should be checked as "Not Used" with a brief statement describing why it is not being used.

Note: Appendix C and D do not have to be submitted with the SWPPP. These attachments are for use during the development of the SWPPP.

EROSION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
EC-1 Scheduling	☐	☐	☐	
EC-2 Preservation of Existing Vegetation	☐	☐	☐	
EC-3 Hydraulic Mulch	☐	☐	☐	
EC-4 Hydroseeding	☐	☐	☐	
EC-5 Soil Binders	☐	☐	☐	
EC-6 Straw Mulch	☐	☐	☐	
EC-7 Geotextiles & Mats	☐	☐	☐	
EC-8 Wood Mulching	☐	☐	☐	
EC-9 Earth Dikes & Drainage Swales	☐	☐	☐	
EC-10 Velocity Dissipation Devices	☐	☐	☐	
EC-11 Slope Drains	☐	☐	☐	
EC-12 Stream bank Stabilization	☐	☐	☐	
SEDIMENT CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
SE-1 Silt Fence	☐	☐	☐	
SE-2 Sediment Basin	☐	☐	☐	
SE-3 Sediment Trap	☐	☐	☐	
SE-4 Check Dam	☐	☐	☐	
SE-5 Fiber Rolls	☐	☐	☐	
SE-6 Gravel Bag Berm	☐	☐	☐	
SE-7 Street Sweeping and Vacuuming	☐	☐	☐	
SE-8 Sand Bag Barrier	☐	☐	☐	
SE-9 Straw Bale Barrier	☐	☐	☐	
SE-10 Storm Drain Inlet Protection	☐	☐	☐	
SE-11 Chemical Treatment	☐	☐	☐	
WIND EROSION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
WE-1 Wind Erosion Control	☐	☐	☐	

BMP Consideration Checklist

Appendix C

TRACKING CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
TR-1 Stabilized Construction Entrance/Exit	☐	☐	☐	
TR-2 Stabilized Construction Roadway	☐	☐	☐	
TR-3 Entrance/Outlet Tire Wash	☐	☐	☐	
NON-STORM WATER MANAGEMENT BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
NS-1 Water Conservation Practices	☐	☐	☐	
NS-2 Dewatering Operations	☐	☐	☐	
NS-3 Paving and Grinding Operations	☐	☐	☐	
NS-4 Temporary Stream Crossing	☐	☐	☐	
NS-5 Clear Water Diversion	☐	☐	☐	
NS-6 Illicit Connection/ Discharge	☐	☐	☐	
NS-7 Potable Water/Irrigation	☐	☐	☐	
NS-8 Vehicle and Equipment Cleaning	☐	☐	☐	
NS-9 Vehicle and Equipment Fueling	☐	☐	☐	
NS-10 Vehicle and Equipment Maintenance	☐	☐	☐	
NS-11 Pile Driving Operations	☐	☐	☐	
NS-12 Concrete Curing	☐	☐	☐	
NS-13 Concrete Finishing	☐	☐	☐	
NS-14 Material and Equipment Use Over Water	☐	☐	☐	
NS-15 Demolition Adjacent to Water	☐	☐	☐	
NS-16 Temporary Batch Plants	☐	☐	☐	
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs				
BMP	**BMP Considered for project**	**BMP Used**	**BMP Not Used**	**If not used, state reason**
WM-1 Material Delivery and Storage	☐	☐	☐	
WM-2 Material Use	☐	☐	☐	
WM-3 Stockpile Management	☐	☐	☐	
WM-4 Spill Prevention and Control	☐	☐	☐	
WM-5 Solid Waste Management	☐	☐	☐	
WM-6 Hazardous Waste Management	☐	☐	☐	
WM-7 Contaminated Soil Management	☐	☐	☐	
WM-8 Concrete Waste Management	☐	☐	☐	
WM-9 Sanitary/Septic Waste Management	☐	☐	☐	
WM-10 Liquid Waste Management	☐	☐	☐	

SWPPP Completion Checklist

Appendix D

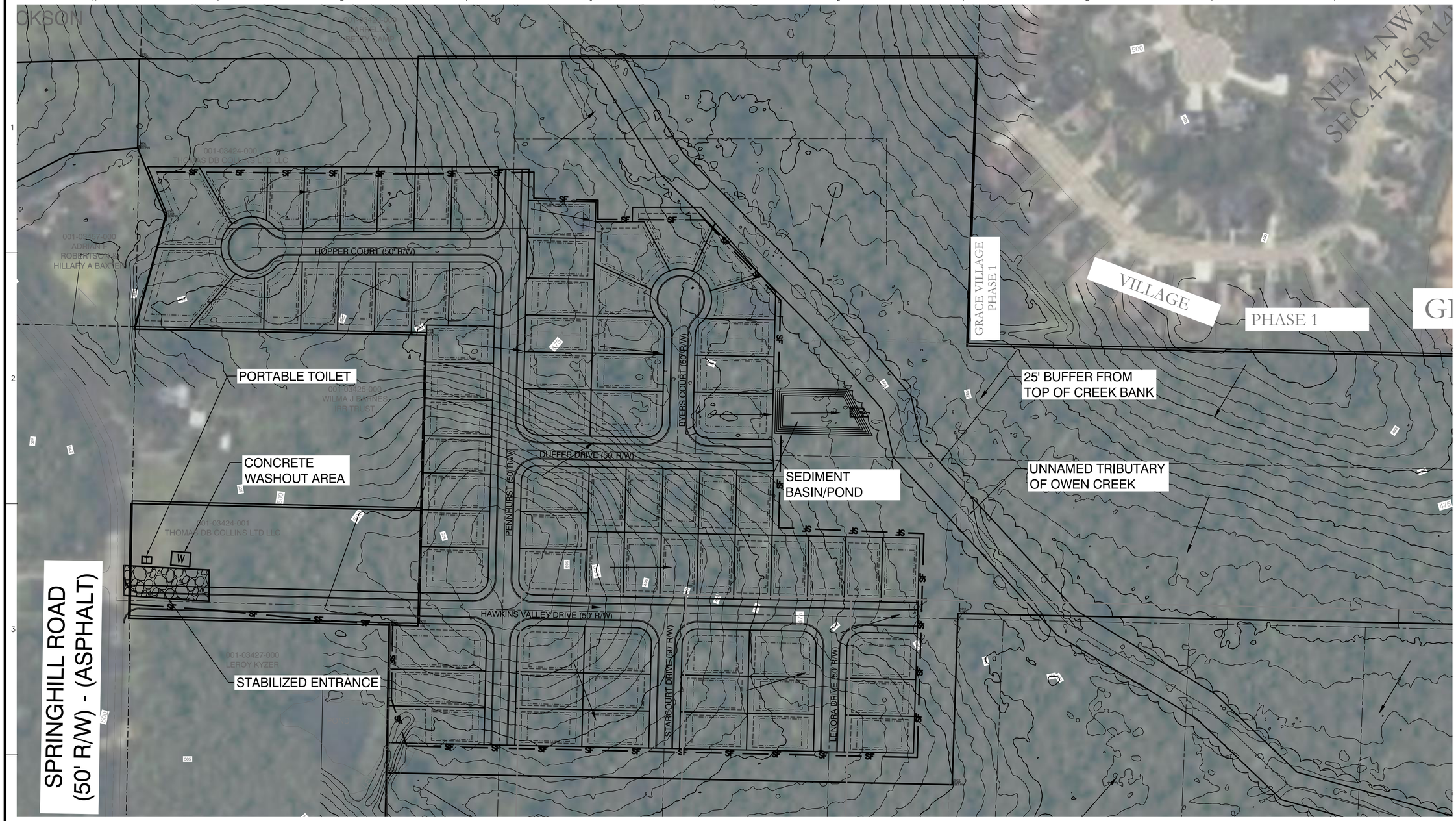
Yes = Complete
No = Incomplete/Deficient
N/A = Not applicable to project

Yes	No	N/A		Permit Section Citation
			A. A site description, including:	
			1. Project description, intended use after NOT	Part II.A.4.A.1
			2. Sequence of major activities	Part II.A.4.A.2
			3. Total & disturbed acreage	Part II.A.4.A.3
			4. Pre- and post-construction runoff coefficient OR soil/discharge data	Part II.A.4.A.4
			B. Responsible Parties: All parties dealing with the SWPPP and the areas they are responsible for on-site.	Part II.A.4.B
			C. Receiving Water.	Part II.A.4.C
			-MS4 Name	Part II.A.4.C
			-Ultimate Receiving Water	Part II.A.4.C
			D. Documentation of permit eligibility related to Impaired Water Bodies and Total Maximum Daily Loads (TMDLs	
			1. Identify pollutant on 303(d) list or TMDL	Part II.A.4.D.1
			2. Is construction activity or the specific site listed as cause?	Part II.A.4.D.2
			3. Measures taken to reduce pollutants from the site.	Part II.A.4.D.3
			E. Attainment of Water Quality Standards After Authorization.	Part II.A.4.E
			F. Site Map --- See End of Evaluation Form	Part II.A.4.F
			G. Description of Controls:	
			1. Erosion and sediment controls, including:	
			a. Initial site stabilization	Part II.A.4.G.1.a
			b. Erosion and sediment controls	Part II.A.4.G.1.b
			c. Replacement of inadequate controls	Part II.A.4.G.1.c
			d. Removal of off-site accumulations	Part II.A.4.G.1.d
			e. Maintenance of sediment traps/basins @ 50% capacity	Part II.A.4.G.1.e
			f. Litter, construction debris and chemicals properly handled	Part II.A.4.G.1.f
			g. Off-site storage areas and controls	Part II.A.4.G.1.g
			2. Stabilization practices:	
			a. Description and schedule for stabilization	Part II.A.4.G.2.a
			b. Description of buffer areas	Part II.A.4.G.2.b
			c. Records of stabilization	Part II.A.4.G.2.c
			d. Deadlines for stabilization	Part II.A.4.G.2.d
			3. Structural Practices:	
			-Describe structural practices to divert flows, store flows, or otherwise limit runoff	Part II.A.4.G.3
			a. Sediment basins	Part II.A.4.G.3.a.1
			-Are more than 10 acres draining to a common point? If so, are sediment basins included?	Part II.A.4.G.3.a.1
			-Sediment basin dimensions and capacity description and calculations	Part II.A.4.G.3.a.1
			-If a basin wasn't practicable, are other controls sufficient?	Part II.A.4.G.3.a.1
			b. Velocity dissipation devices concentrated flow from 2 or more acres	Part II.A.4.G.3.b
			H. Other controls including:	
			1. Solid waste control measures	Part II.A.4.H.1
			2. Vehicle off-site tracking controls	Part II.A.4.H.2
			3. Compliance with sanitary waste disposal	Part II.A.4.H.4
			4. Does the site have a concrete washout area controls?	Part II.A.4.H.5
			5. Does the site have fuel storage areas, hazardous waste storage and/or truck wash areas controls?	Part II.A.4.H.6

SWPPP Completion Checklist

Appendix D

Yes	No	N/A		Permit Section Citation
			I. Identification of allowable non-storm water discharges	Part II.A.4.I
			-Appropriate controls for dewatering, if present	Part I.B.12.C
			J. Post construction stormwater management.	Part II.A.4.J
			K. State or local requirements incorporated into the plan.	Part II.A.4.K
			L. Inspections	
			1. Inspection frequency listed?	Part II.A.4.L.1
			2. Inspection form	Part II.A.4.L.2
			Ours.	
			If not ours, does it contain the following items:	
			a. Inspector name and title	Part II.A.4.L.2.a
			b. Date of inspection.	Part II.A.4.L.2.b
			c. Amount of rainfall and days since last rain event (14 day only)	Part II.A.4.L.2.c
			d. Approx beginning and duration of storm event	Part II.A.4.L.2.d
			e. Description of any discharges during inspection	Part II.A.4.L.2.e
			f. Locations of discharges of sediment/other pollutants	Part II.A.4.L.2.f
			g. BMPs in need of maintenance	Part II.A.4.L.2.g
			h. BMPs in working order, if maintenance needed (scheduled and completed)	Part II.A.4.L.2.h
			i. Locations that are in need of additional controls	Part II.A.4.L.2.i
			j. Location and dates when major construction activities begin, occur or cease	Part II.A.4.L.2.j
			k. Signature of responsible/cognizant official	Part II.A.4.L.2.k
			3. Inspection Records	Part II.A.4.L.3
			4. Winter Conditions	Part II.A.4.L.4
			5. Adverse Weather Conditions	Part II.A.4.L.5
			M. Maintenance Procedures	Part II.A.4.M
			N. Employee Training	Part II.A.4.N
			Signed Plan Certification	Part II.A.5. and Part II.B.10
			F. Site Map showing:	
			1. Pre-construction topographic view	Part II.A.4.F.1
			2. Drainage flow	Part II.A.4.F.2
			3. Approximate slopes after grading activities	Part II.A.4.F.2
			4. Areas of soil disturbance and areas not disturbed	Part II.A.4.F.3
			5. Location of major structural and non-structural controls.	Part II.A.4.F.4
			6. Location of main construction entrance and exit.	Part II.A.4.F.5
			7. Areas where stabilization practices are expected to occur.	Part II.A.4.F.6
			8. Locations of off-site materials, waste, borrow area or storage area.	Part II.A.4.F.7
			9. Locations of areas used for concrete wash-out.	Part II.A.4.F.8
			10. Locations of surface waters on site.	Part II.A.4.F.9
			11. Locations where water is discharged to a surface water or MS4.	Part II.A.4.F.10
			12. Storm water discharge locations.	Part II.A.4.F.11
			13. Areas where final stabilization has been accomplished.	Part II.A.4.F.12
			14. Legend for symbols/labels used	Part II.A.4.F.13
			15. Location of storm drain inlets on site or in immediate vicinity	Part II.A.4.F.14



LEGEND:

- 500 — EXISTING CONTOURS
- DIRECTION OF OVERLAND FLOW
- SF — SILT FENCING
- STABILIZED CONSTRUCTION ENTRANCE
- W — CONCRETE WASHOUT
- PORTABLE TOILET
- UNDISTURBED BUFFERS

ACREAGE SUMMARY	
TOTAL AREA	45.53 ACRES
TOTAL DISTURBED	16.81 ACRES

N

80' 40' 0 80'

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

HAWKINS VALLEY
SPRINGHILL RD & STRAWBERRY LN
SALINE COUNTY, ARKANSAS

PRELIMINARY

CONTENTS:

EROSION CONTROL PLAN

PROJECT NO: 24076

DATE: SEPT. 2024

SHEET NO: 1.0

J:\Projects\2024 Projects\24076 Hawkins Valley Springhill Road Strawberry Lane Lot Propels\Drawings\Office\Design\24076-Springhill-Road-Drainage Map-R3.dwg

GENERAL EROSION NOTES:

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF A SITE MAP, STANDARD DETAILS, THE PLAN NARRATIVE, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF ARKANSAS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP's) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OF MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST ME MAINTAINED ON SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. 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.
11. 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.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 21 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
14. 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.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES 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.
16. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. 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.
18. 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.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.
21. 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.

SEQUENCE OF CONSTRUCTION:

PHASE I

1. CONSTRUCT THE SILT FENCES ON THE SITE.
2. CONSTRUCT THE ROCK CHECK DAMS AND SEDIMENT TRAP BASINS.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
4. CLEAR AND GRUB THE SITE.
5. PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
6. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP(S). GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRECONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
7. BEGIN GRADING THE SITE.

PHASE II

1. TEMPORARILY SEED DENUDED AREAS.
2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, AND ROAD IMPROVEMENTS.
3. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
5. PREPARE SITE FOR PAVING.
6. PAVE SITE.
7. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED)

SOIL EROSION / SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
ROUGH GRADE / SEDIMENT CONTROL																		
TEMPORARY CONTROL MEASURES																		
STRIP & STOCKPILE TOPSOIL																		
STORM FACILITIES																		
TEMPORARY CONSTRUCTION RODS																		
FOUNDATION / BUILDING CONSTRUCTION																		
SITE CONSTRUCTION																		
PERMANENT CONTROL STRUCTURES																		
FINISH GRADING																		
LANDSCAPING/SEED/FINAL STABILIZATION																		

ACREAGE SUMMARY

TOTAL AREA	45.53 ACRES
TOTAL DISTURBED	16.81 ACRES

DEVELOPER / OWNER:

THOMAS D.B. COLLINS LTD LLC

GENERAL CONTRACTOR

THOMAS D.B. COLLINS LTD LLC

CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC.
No. 2174
ARKANSAS

DATE	REVISION	BY

GNE Designing our client's success
GarNat Engineering, LLC
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Benton, AR 72018
Ph (501) 408-4650
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Bryant, AR 72022
garnatengineering@gmail.com

HAWKINS VALLEY
SPRINGHILL RD & STRAWBERRY LN
SALINE COUNTY, ARKANSAS

PRELIMINARY

CONTENTS:

EROSION CONTROL NOTES

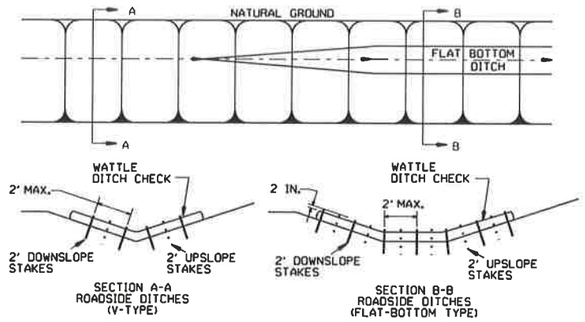
PROJECT NO: 24076

DATE: SEPT. 2024

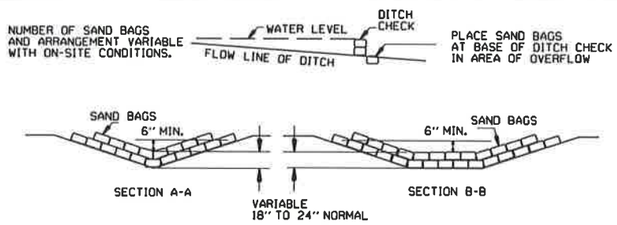
SHEET NO: 2.0

GENERAL NOTES

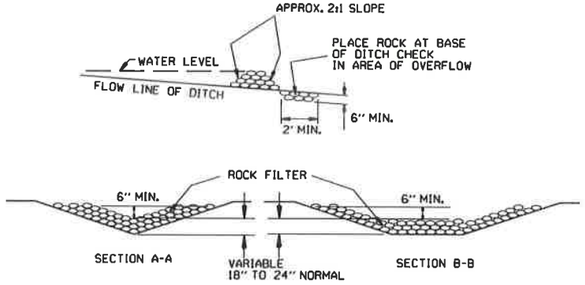
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

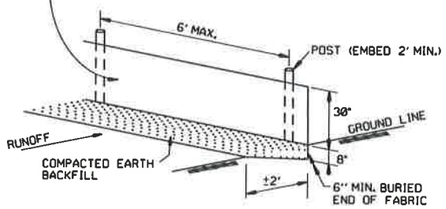


ROCK DITCH CHECK (E-6)

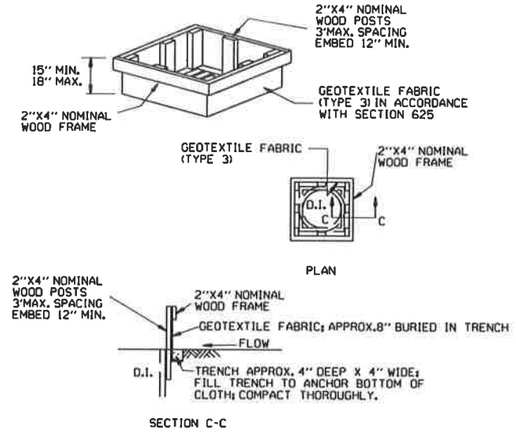
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

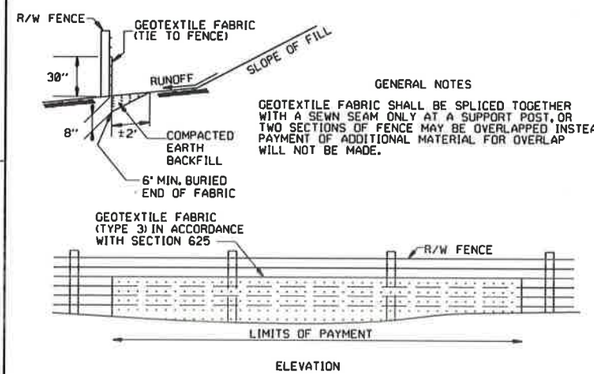
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



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.

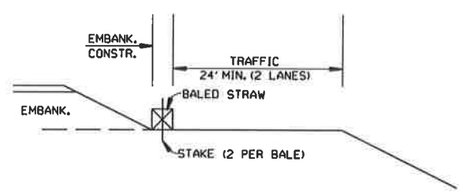
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

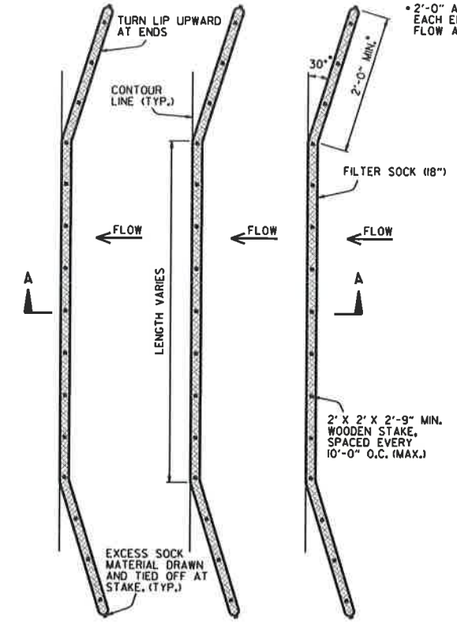
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

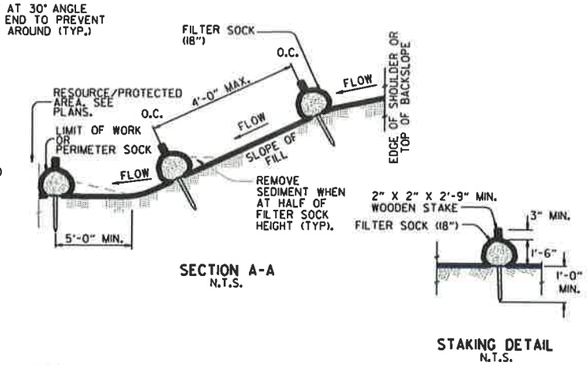
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



PLAN VIEW
N.T.S.



STAKING DETAIL
N.T.S.

NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

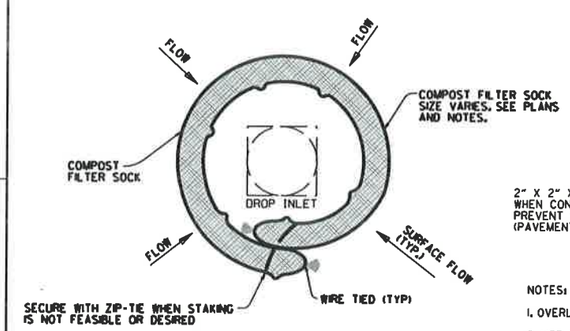
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

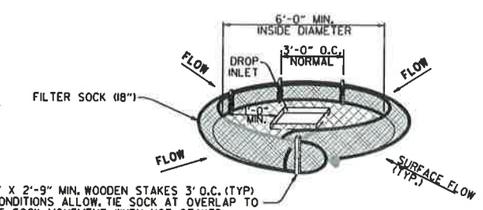
4. FILTER SOCKS MAY BE UP TO 250 FEET LONG. WHEN USED ON LONG SLOPES, FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



DROP INLET PLAN VIEW
N.T.S.



DROP INLET PERSPECTIVE VIEW
N.T.S.

NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

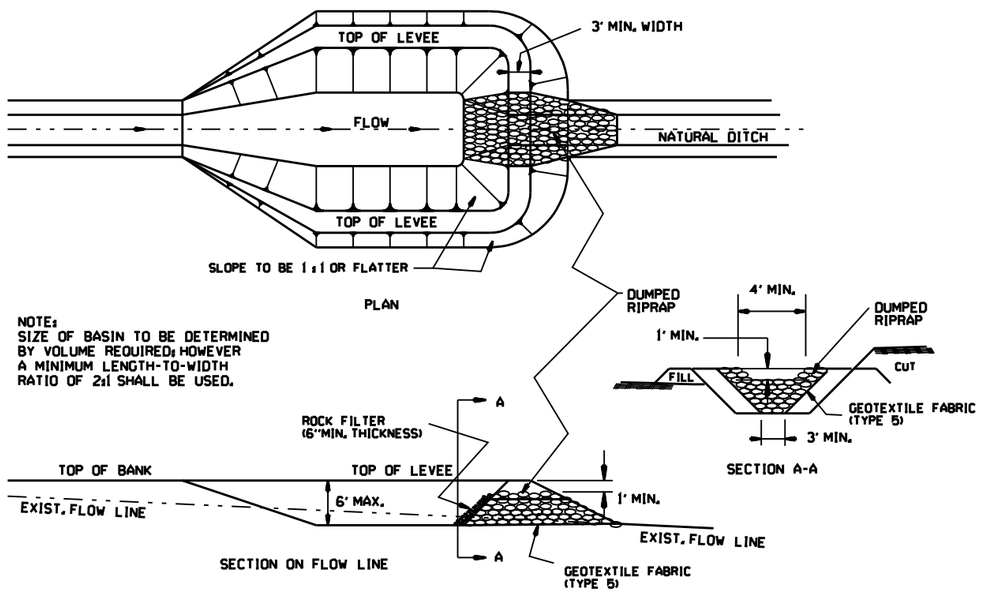
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

DATE	REVISION	FILMED
11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
06-02-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

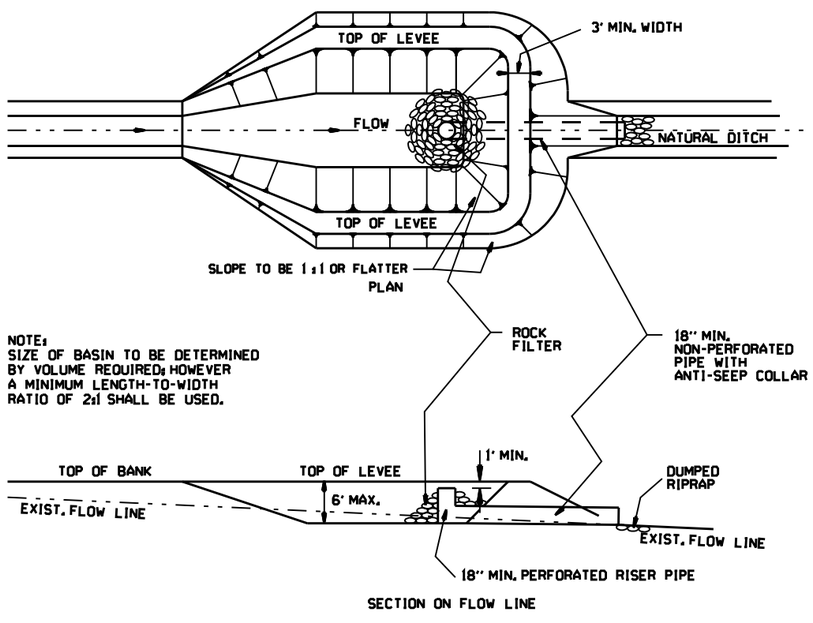
TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1



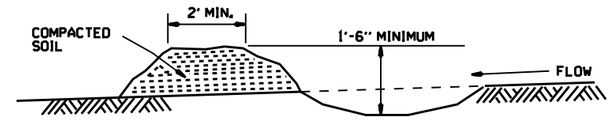
NOTE:
SIZE OF BASIN TO BE DETERMINED BY VOLUME REQUIRED; HOWEVER A MINIMUM LENGTH-TO-WIDTH RATIO OF 2:1 SHALL BE USED.

SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



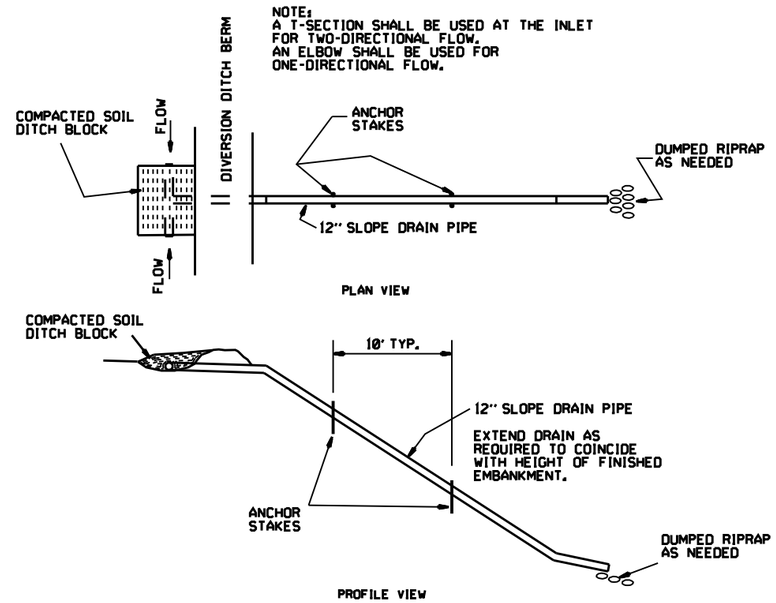
NOTE:
SIZE OF BASIN TO BE DETERMINED BY VOLUME REQUIRED; HOWEVER A MINIMUM LENGTH-TO-WIDTH RATIO OF 2:1 SHALL BE USED.

SEDIMENT BASIN WITH PIPE OUTLET (E-10)

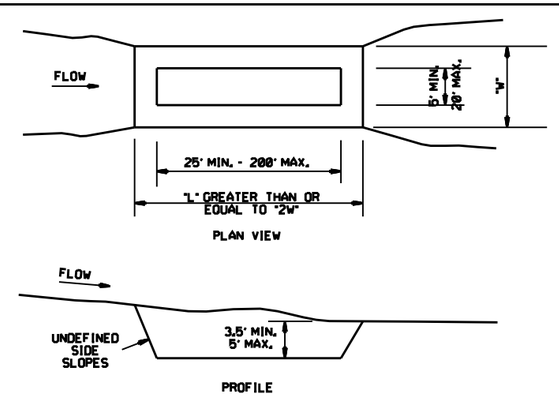


DIVERSION DITCH (E-8)

NOTE:
A T-SECTION SHALL BE USED AT THE INLET FOR TWO-DIRECTIONAL FLOW.
AN ELBOW SHALL BE USED FOR ONE-DIRECTIONAL FLOW.



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

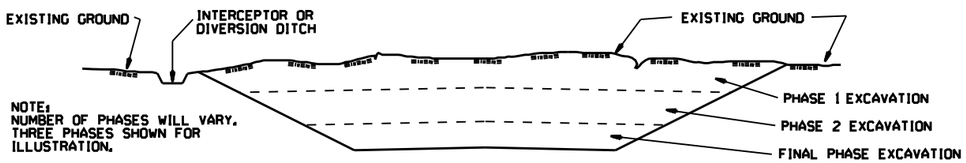
STANDARD DRAWING TEC-2

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



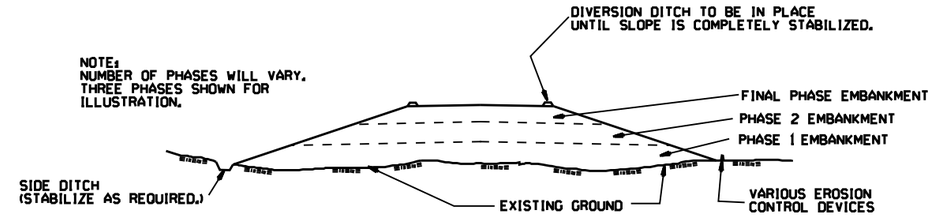
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

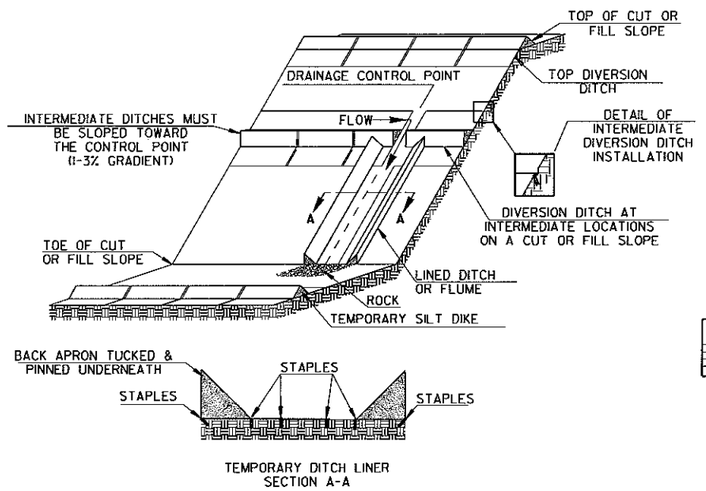
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

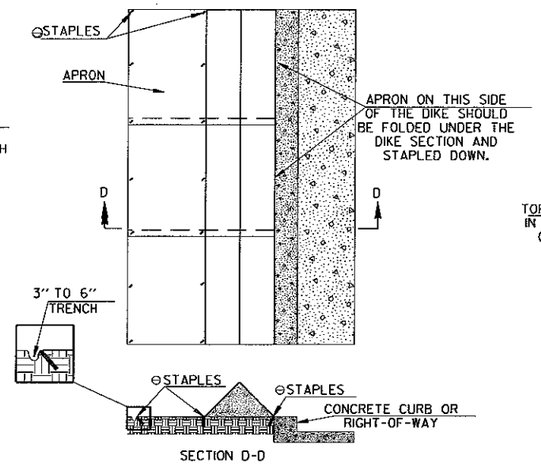
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

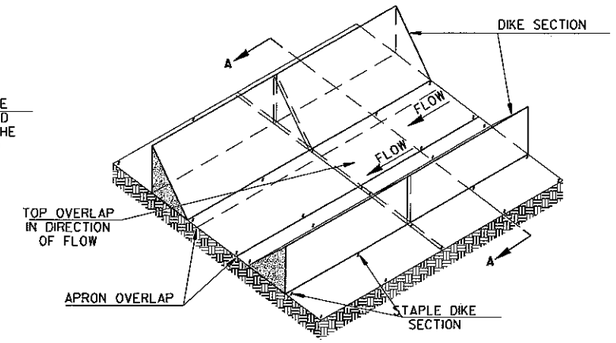
STANDARD DRAWING TEC-3



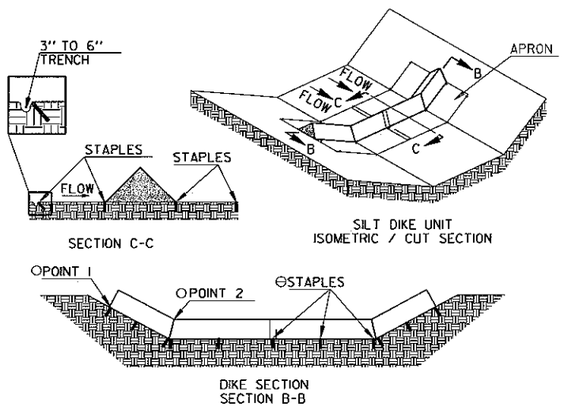
TRIANGULAR SILT DIKE INSTALLATION
FOR
DIVERSION DITCH AND/OR DITCH LINER



TRIANGULAR SILT DIKE INSTALLATION
FOR
CONTINUOUS BARRIER



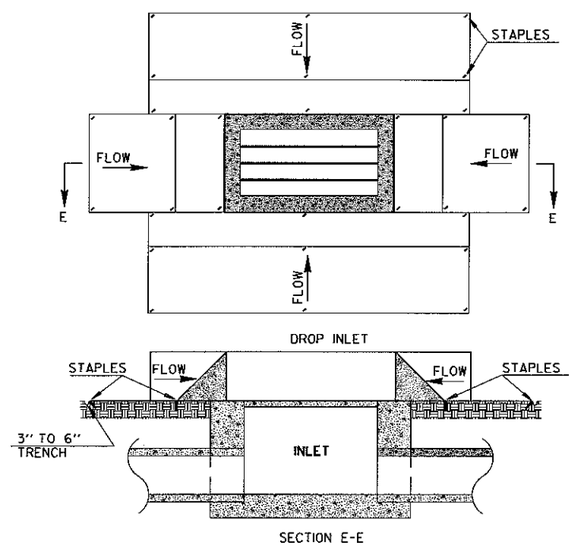
TRIANGULAR SILT DIKE INSTALLATION
FOR
TEMPORARY DITCH LINER



TRIANGULAR SILT DIKE INSTALLATION
FOR
ROADWAY DITCH OR DRAINAGE DITCH

O POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION
FOR
DROP INLETS

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4

HAWKINS VALLEY
PHASE 1
FOR THOMAS D.B. COLLINS, LTD.
CITY OF BRYANT,
SALINE COUNTY, ARKANSAS

Prepared by:

GarNat Engineering, LLC

P.O. Box 116
Benton, AR 72018
Ph (501) 408-4650

3825 Mt Carmel Road
Bryant, AR 72022
www.garnatengineering.com

Designing our client's success

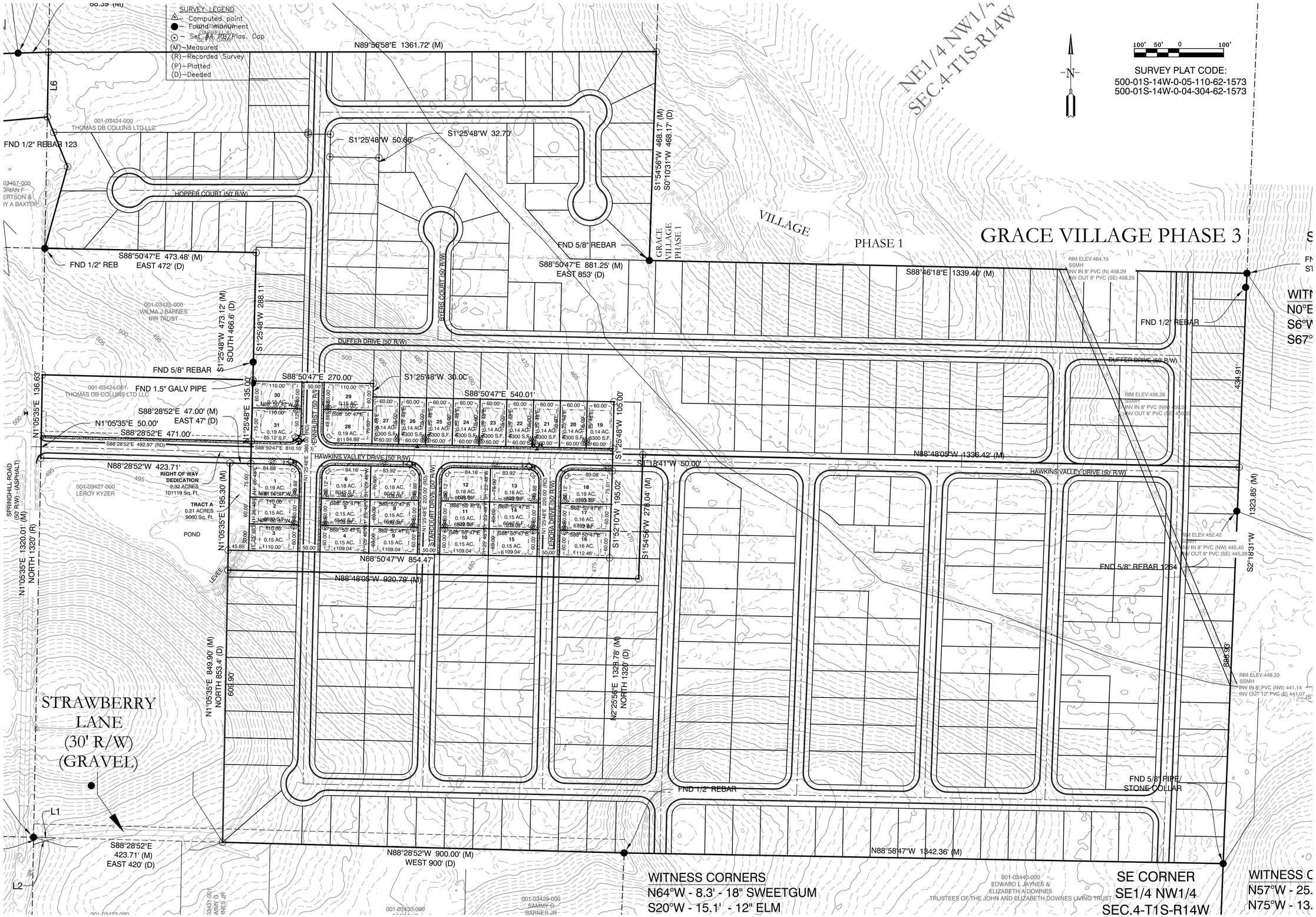
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9551
LEON J. WILLIAMS
PRELIMINARY

CERTIFICATE OF AUTHORIZATION
GarNat Engineering, LLC.
No. 2174
ARKANSAS ENGINEER

DRAWING INDEX:

C1.0	OVERALL SITE PLAN
V1.0	PRELIMINARY PLAT
C3.1	HAWKINS VALLEY PLAN & PROFILE
4	OVERALL WATER AND SEWER PLAN
5	SEWER PLAN & PROFILE MAIN A
6	SEWER PLAN & PROFILE MAIN A
7	SEWER PLAN & PROFILE MAIN B & C
8	SEWER PLAN & PROFILE MAIN D & E



OVERALL
SITE PLAN

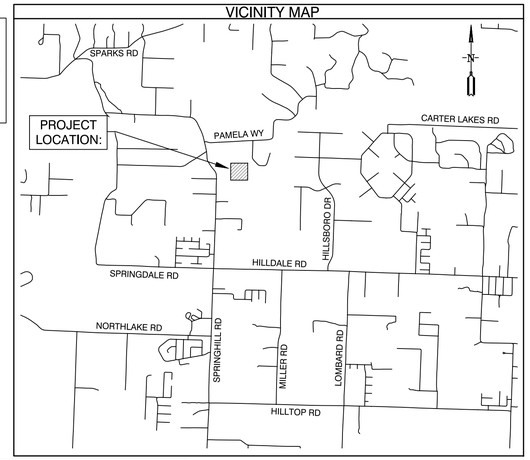
24076

AUG. 26, 2024

C1.0

SURVEY LEGEND
- Computed point
- Found monument
- Set #4 RB/Plas. Cap
(M)-Measured
(R)-Record
(P)-Platted

VICINITY MAP



Curve Table

Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	39.39'	25.00'	90°16'35"	S43° 42' 29"E	35.44'
C2	39.15'	25.00'	89°43'25"	N46° 17' 31"E	35.27'
C3	39.39'	25.00'	90°16'35"	S43° 42' 29"E	35.44'
C4	39.15'	25.00'	89°43'25"	N46° 17' 31"E	35.27'
C5	39.39'	25.00'	90°16'35"	S43° 42' 29"E	35.44'
C6	39.15'	25.00'	89°43'25"	S46° 17' 31"W	35.27'
C7	39.39'	25.00'	90°16'35"	S43° 42' 29"E	35.44'
C8	39.15'	25.00'	89°43'25"	N46° 17' 31"E	35.27'

GENERAL NOTES:

1. ALL STREETS & DRAINAGE TO MEET CITY OF BRYANT STANDARD SPECIFICATIONS & DETAILS.
2. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF CITY OF BRYANT STANDARD SPECIFICATIONS PER PART 4.9
3. NO FENCES CAN BE CONSTRUCTED IN DRAINAGE EASEMENTS WHERE OPEN DITCHES EXIST.
4. ROADS WILL BE MAINTAINED, INSPECTED, & ACCEPTED BY SALINE COUNTY.
5. NO FENCES SHALL BE BUILT WITHIN THIS DRAINAGE EASEMENT.
6. NO POOLS OR PERMANENT STRUCTURES SHALL BE BUILT IN EASEMENTS.
7. NO FENCES SHALL BE BUILT IN ROAD RIGHT-OF-WAY OR ACCESS EASEMENTS.

PROPERTY SPECIFICATIONS:

ZONING CLASSIFICATION: R-1-S

MIN. LOT SIZE: 6,300 S.F.
NUMBER OF LOTS: 31
SOURCE OF WATER: SALEM WATER
SOURCE OF SEWER: CITY OF BRYANT

BUILDING SETBACKS:
FRONT - 20' OR AS SHOWN
REAR - 20' OR AS SHOWN
SIDE - 8' OR AS SHOWN

EASEMENTS: UTILITY & DRAINAGE (D.E. & U.E.)
FRONT - 10' OR AS SHOWN
REAR - 10' OR AS SHOWN
SIDE - 5' OR AS SHOWN
STREET RIGHT OF WAYS: 50' OR AS SHOWN
STREET WIDTH: 28' BOC TO BOC
LOT CORNERS: SET #4 REBAR WITH CAP

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

PROPERTY DESCRIPTION:

PHASE 1 SUBDIVISION DESCRIPTION
PART OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER (SW1/4 NW1/4) OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 14 WEST, MORE PARTICULARLY DESCRIBED AS FOLLOWS: **BEGINNING** AT A FOUND 1/2" REBAR FOR THE NORTHWEST CORNER OF THE SAID SW1/4 NW1/4; THENCE S88°50'47"E, ALONG THE NORTH LINE THEREOF, FOR A DISTANCE OF 473.48 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE S1°25'48"W, LEAVING SAID NORTH LINE, FOR A DISTANCE OF 288.11 FEET TO A SET 1/2" REBAR WITH CAP #1573 FOR THE **POINT OF BEGINNING**; THENCE S88°50'47"E FOR A DISTANCE OF 270.00 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE S1°25'48"W FOR A DISTANCE OF 30.00 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE S88°50'47"E FOR A DISTANCE OF 540.01 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE S1°25'48"W FOR A DISTANCE OF 105.00 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE NORTH RIGHT OF WAY OF HAWKINS VALLEY DRIVE; THENCE S1°18'41"W, LEAVING SAID NORTH RIGHT OF WAY, FOR A DISTANCE OF 50.00 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE SOUTH RIGHT OF WAY OF HAWKINS VALLEY DRIVE; THENCE S1°52'10"W, LEAVING SAID SOUTH RIGHT OF WAY, FOR A DISTANCE OF 195.02 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N88°50'47"W FOR A DISTANCE OF 854.47 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N1°05'35"E FOR A DISTANCE OF 195.30 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE SOUTH RIGHT OF WAY OF HAWKINS VALLEY DRIVE; THENCE N88°28'52"W, ALONG SAID SOUTH RIGHT OF WAY, FOR A DISTANCE OF 423.71 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE EAST RIGHT OF WAY OF SPRINGHILL ROAD; THENCE N1°05'35"E, ALONG SAID EAST RIGHT OF WAY, FOR A DISTANCE OF 50.00 FEET TO A SET 1/2" REBAR WITH CAP #1573 LOCATED ON THE NORTH RIGHT OF WAY OF HAWKINS VALLEY DRIVE; THENCE S88°28'52"E, LEAVING SAID SPRINGHILL ROAD EAST RIGHT OF WAY AND ALONG NORTH RIGHT OF WAY OF HAWKINS VALLEY DRIVE, FOR A DISTANCE OF 471.00 FEET TO A SET 1/2" REBAR WITH CAP #1573; THENCE N1°25'48"E, LEAVING SAID NORTH RIGHT OF WAY, FOR A DISTANCE OF 135.00 FEET TO THE **POINT OF BEGINNING**, CONTAINING 7.44 ACRES, MORE OR LESS. SUBJECT TO ANY EXISTING EASEMENTS.

PLAT CERTIFICATES:

OWNER:
Name: Phillip Pengelly
Thomas DB Collins LTD, LLC
Address: 9360 Gilbert Road
Benton, Arkansas 72019

DEVELOPER:
Name: Lee Pengelly
Thomas DB Collins LTD, LLC
Address: 9360 Gilbert Road
Benton, Arkansas 72019

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.

Date: _____ Signed: _____
Name: Phillip Pengelly
Address: 9360 Gilbert Road, Benton, Arkansas 72019

Source of Title Saline County: Deed Book 2024 , Page 013856

CERTIFICATE OF PRELIMINARY ENGINEERING ACCURACY:

I, Vernon J. Williams, hereby certify that this plat correctly represents a survey and a plan made by me or under my supervision; that all monuments shown hereon actually exist and their 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: _____ Signed: _____
Vernon J. Williams
Registered Professional Engineer
No. 9551, Arkansas

CERTIFICATE OF PRELIMINARY SURVEYING ACCURACY:

I, George P. Wooden, hereby certify that this proposed preliminary plat correctly represents a boundary survey made 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 Title; and that all monuments which were found or placed on the property are correctly described and located.

Date: _____ Signed: _____
George P. Wooden
Registered Land Surveyor
No. 1573, Arkansas

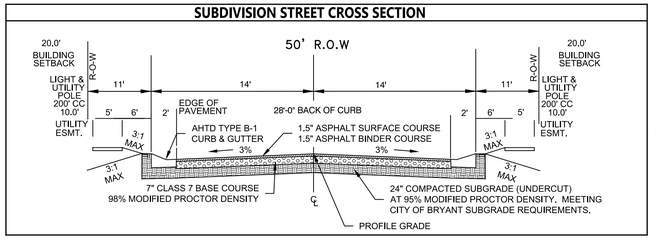
CERTIFICATE OF PRELIMINARY PLAT APPROVAL:

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 to further provisions of said Rules and Regulations.

Date: _____ Signed: _____
Rick Johnson, Chairman
Bryant Planning Commission

PRELIMINARY PLAT
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

SUBDIVISION STREET CROSS SECTION



CERTIFICATE OF AUTHORIZATION GarNat Engineering, LLC. No. 2174 ARKANSAS

N

75' 37.5' 0 75'

SURVEY PLAT CODE:
500-01S-14W-0-04-430-62-1573

BASIS OF BEARINGS:
NAD 83 ARKANSAS GRID SOUTH ZONE (GPS)

CERTIFICATIONS:
By affixing my seal and signature, I George P. Wooden, PLS No. 1573, hereby certify that this drawing correctly depicts a survey compiled under my supervision dated June 22, 2024.
According the the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Saline County unincorporated areas, panel # 05125C0225E dated 6/5/2020 , no portion of the property described hereon does lie within the 100 year flood hazard boundary.

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 Road
Bryant, AR 72022
garnatengineering@gmail.com

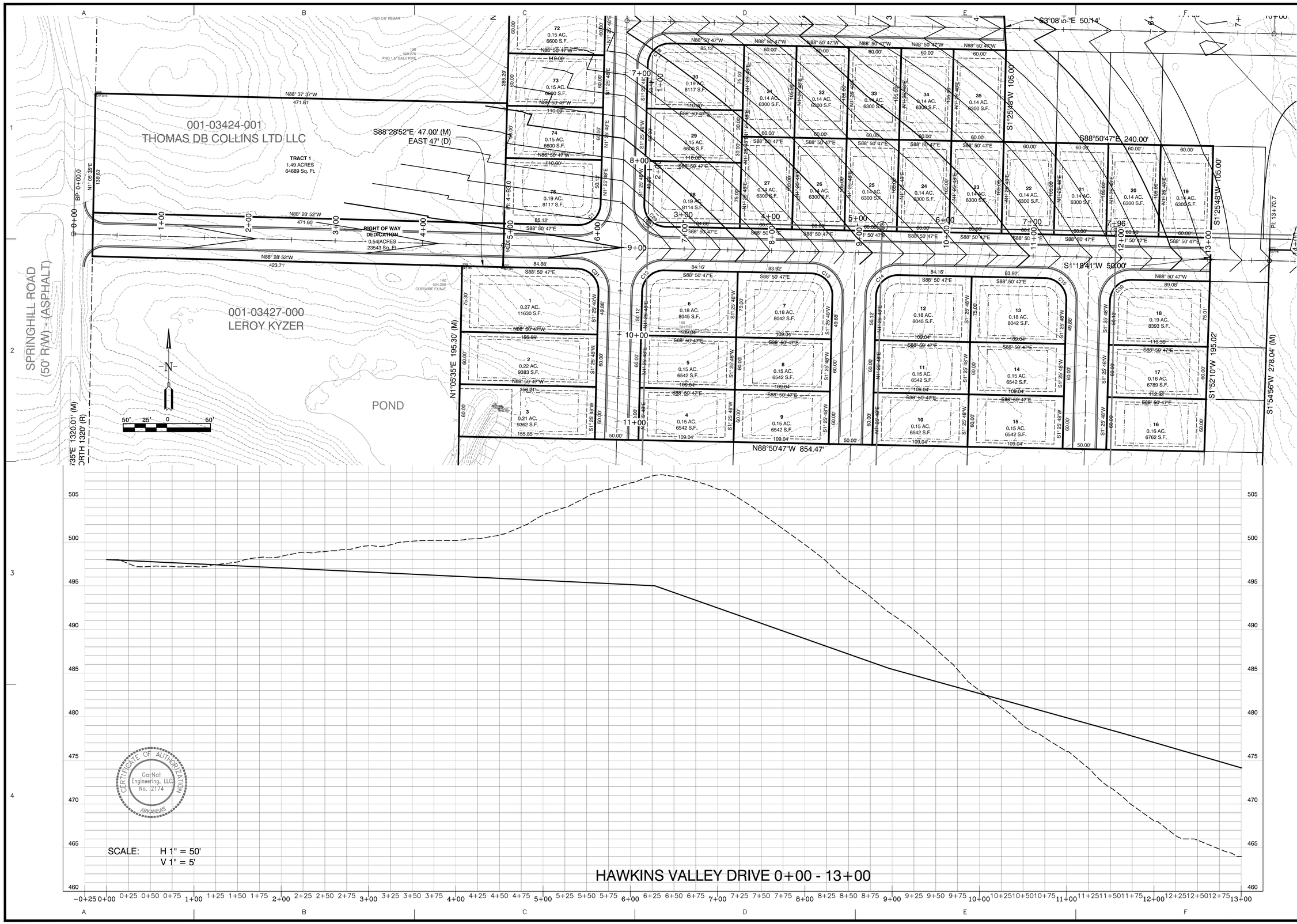
HAWKINS VALLEY
PHASE 1
CITY OF BRYANT,
SALINE COUNTY, ARKANSAS

REGISTERED PROFESSIONAL SURVEYOR STATE OF ARKANSAS NO. 1573 SIGNATURE GEORGE P. WOODEN PRELIMINARY

CONTENTS:
PRELIMINARY PLAT

PROJECT NO: 24076
DATE: OCT. 9, 2024
SHEET NO: V1.0

a:\Projects\2024 Projects\24076 Hawkins Valley Springhill Road Strawberry Lane Lee Pengelly\Drawings\24076 Hawkins Valley Phase 1 Preliminary Plat RB — 100724.dwg



DATE	REVISION	BY

GNE Designing our client's success

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

FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

CONTENTS:
HAWKINS VALLEY DRIVE PLAN & PROFILE

PROJECT NO: 24076

DATE: OCTOBER 2024

SHEET NO: C3.1

NOTES:

1. BURIED UTILITIES ARE LOCATED AT THE SITE. CONTACT ARKANSAS ONE CALL & WHERE APPROPRIATE THE UTILITY COMPANIES PRIOR TO DIGGING.

2. ALL UNRESTRAINED WATER LINE FITTINGS SHALL BE INSTALLED WITH A CONCRETE THRUST BLOCK FOR JOINT RESTRAINT.

3. WORK ON EXISTING ROADS SHALL INCLUDE WARNING SIGNS & BARRICADES IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE, COUNTY, OR CITY HAVING JURISDICTION. OTHER SIGNS & DEVICES, SUCH AS PLATING, SHALL BE PLACED AS REQUIRED TO ADEQUATELY PROTECT THE PUBLIC.

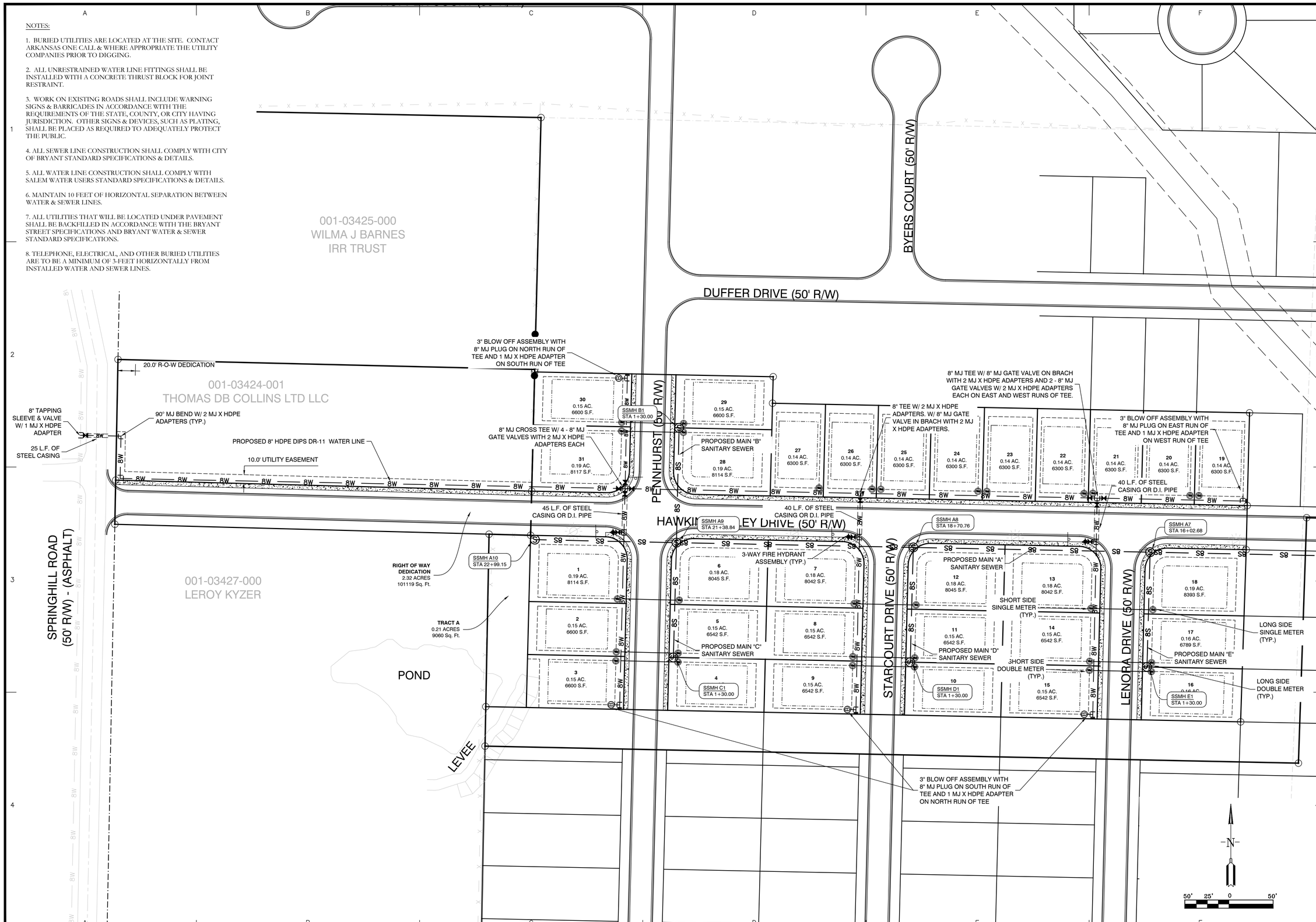
4. ALL SEWER LINE CONSTRUCTION SHALL COMPLY WITH CITY OF BRYANT STANDARD SPECIFICATIONS & DETAILS.

5. ALL WATER LINE CONSTRUCTION SHALL COMPLY WITH SALEM WATER USERS STANDARD SPECIFICATIONS & DETAILS.

6. MAINTAIN 10 FEET OF HORIZONTAL SEPARATION BETWEEN WATER & SEWER LINES.

7. ALL UTILITIES THAT WILL BE LOCATED UNDER PAVEMENT SHALL BE BACKFILLED IN ACCORDANCE WITH THE BRYANT STREET SPECIFICATIONS AND BRYANT WATER & SEWER STANDARD SPECIFICATIONS.

8. TELEPHONE, ELECTRICAL, AND OTHER BURIED UTILITIES ARE TO BE A MINIMUM OF 3-FEET HORIZONTALLY FROM INSTALLED WATER AND SEWER LINES.



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FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

PRELIMINARY

CONTENTS:
OVERALL WATER & SANITARY SEWER PLAN

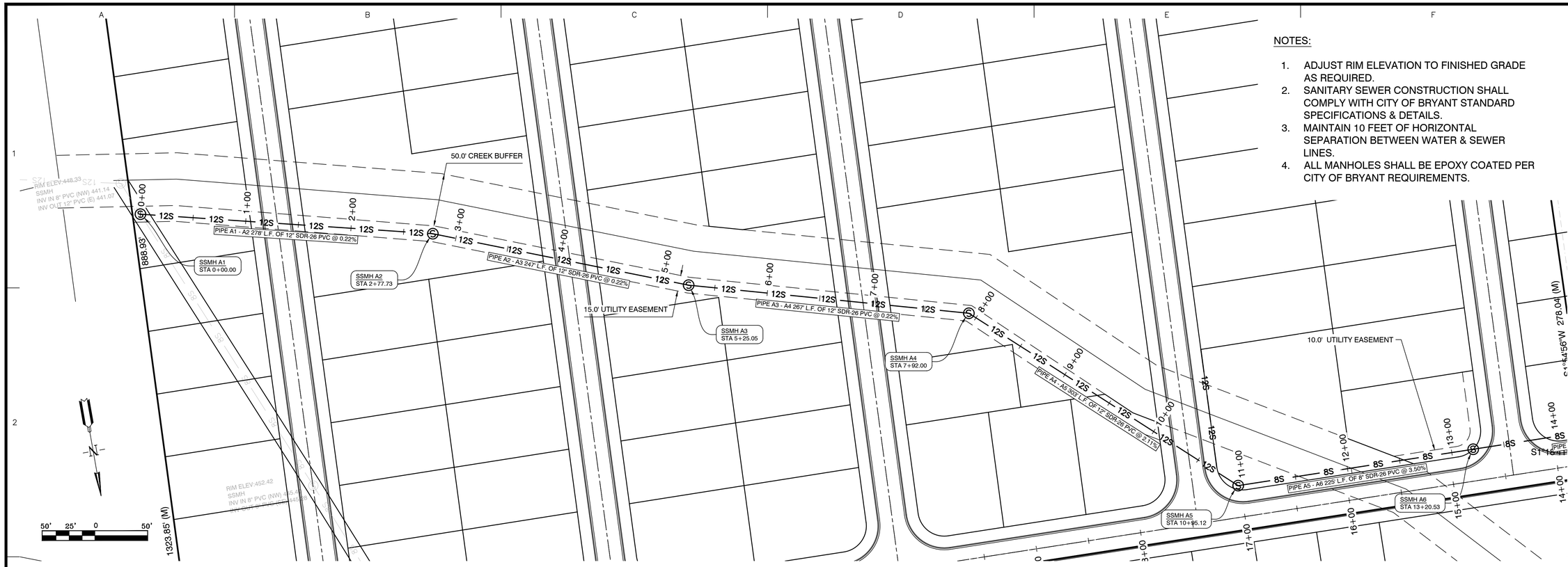
PROJECT NO: 24076

DATE: OCTOBER 2024

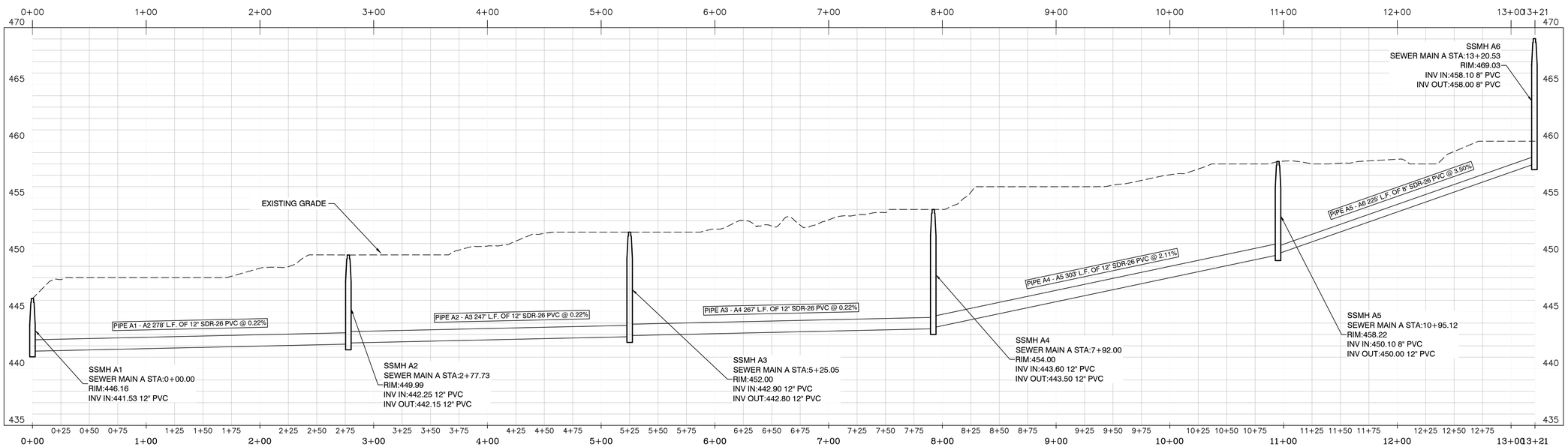
SHEET NO: 4

NOTES:

1. ADJUST RIM ELEVATION TO FINISHED GRADE AS REQUIRED.
2. SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH CITY OF BRYANT STANDARD SPECIFICATIONS & DETAILS.
3. MAINTAIN 10 FEET OF HORIZONTAL SEPARATION BETWEEN WATER & SEWER LINES.
4. ALL MANHOLES SHALL BE EPOXY COATED PER CITY OF BRYANT REQUIREMENTS.



SEWER MAIN A STA. 0+00 – 13+21



SCALE: H 1" = 50'
V 1" = 5'

DATE	REVISION	BY

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garnatengineering@gmail.com

FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

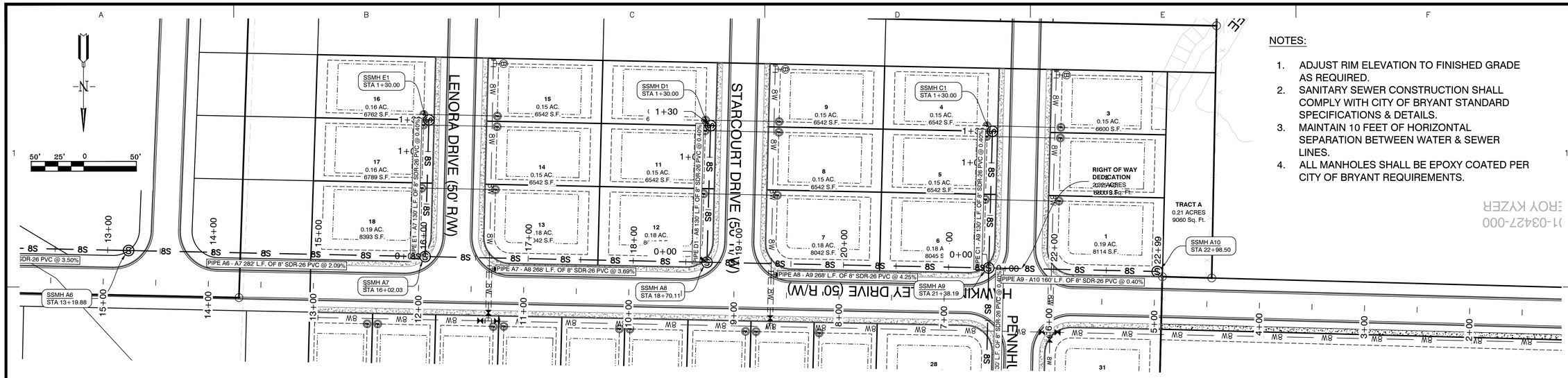
PRELIMINARY

CONTENTS:
SANITARY SEWER PLAN & PROFILE MAIN "A" STA. 0+00 - 13+20

PROJECT NO: 24076

DATE: OCTOBER 2024

SHEET NO: 5



NOTES:

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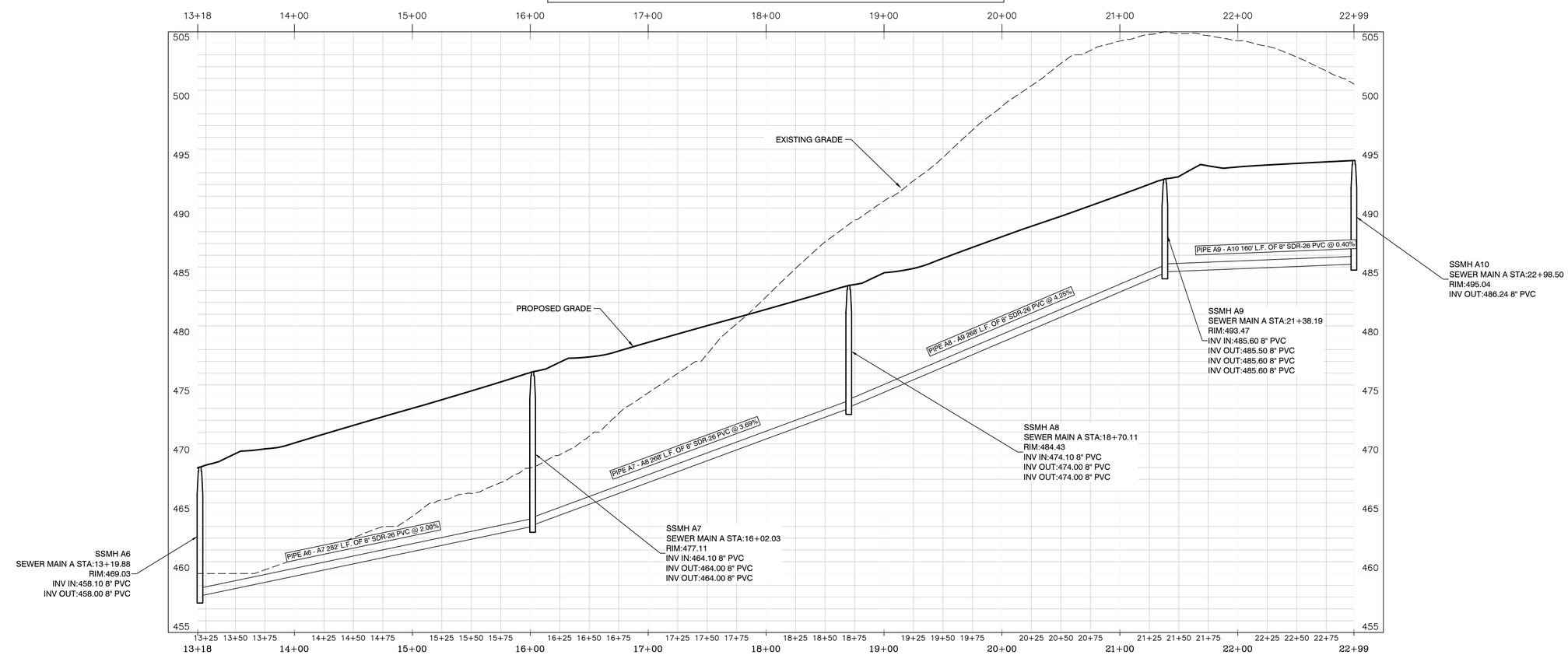
2. SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH CITY OF BRYANT STANDARD SPECIFICATIONS & DETAILS.
3. MAINTAIN 10 FEET OF HORIZONTAL SEPARATION BETWEEN WATER & SEWER LINES.
4. ALL MANHOLES SHALL BE EPOXY COATED PER CITY OF BRYANT REQUIREMENTS.

SEWER MAIN A STA. 13+18 – 22+99



SCALE: H 1" = 50'
V 1" = 5'

DATE	REVISION	BY

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garnatengineering@gmail.com

FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

PRELIMINARY

CONTENTS:
SANITARY SEWER PLAN & PROFILE MAIN "A" STA. 13+18 - 22+99

PROJECT NO: 24076

DATE: OCTOBER 2024

SHEET NO: 6

NOTES:

1. ADJUST RIM ELEVATION TO FINISHED GRADE AS REQUIRED.
2. SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH CITY OF BRYANT STANDARD SPECIFICATIONS & DETAILS.
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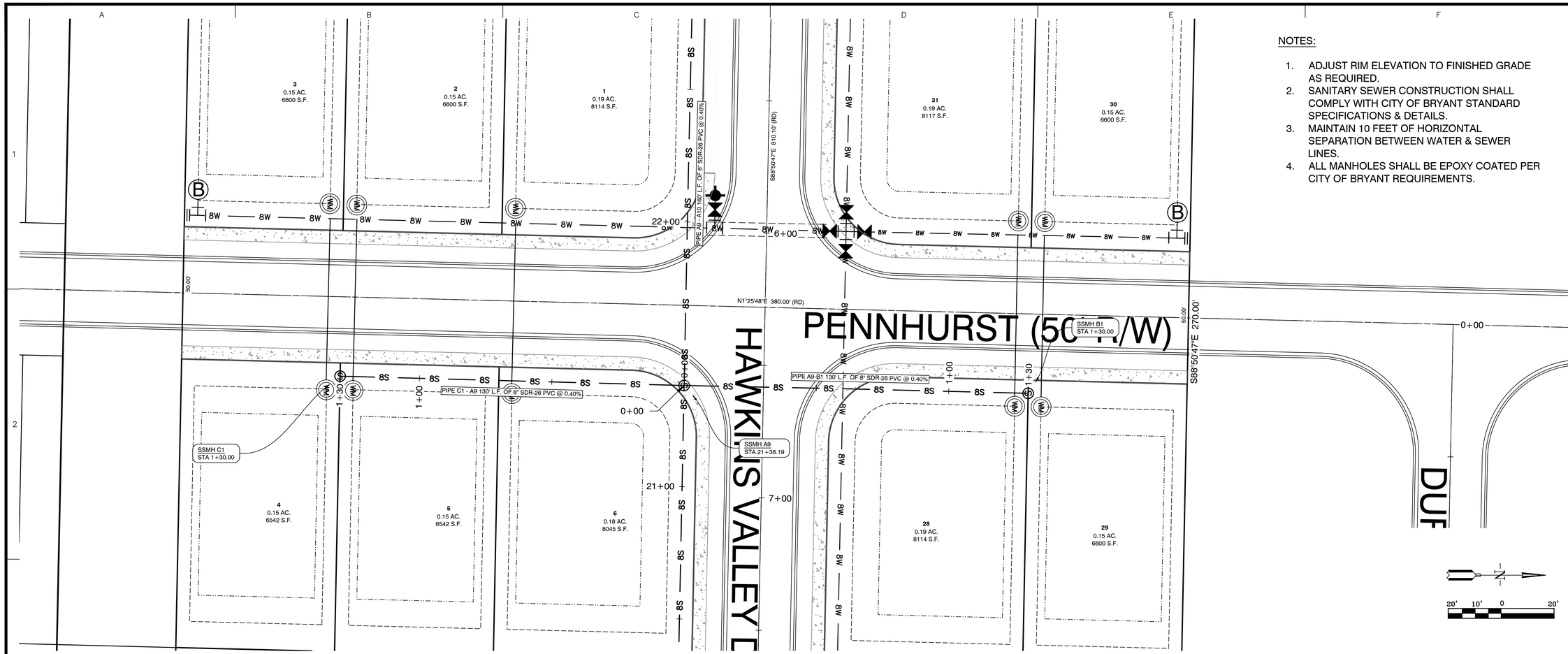
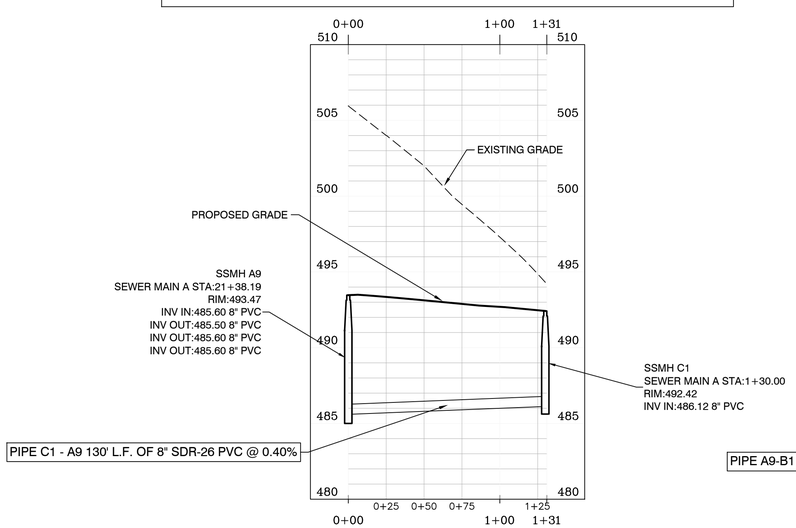
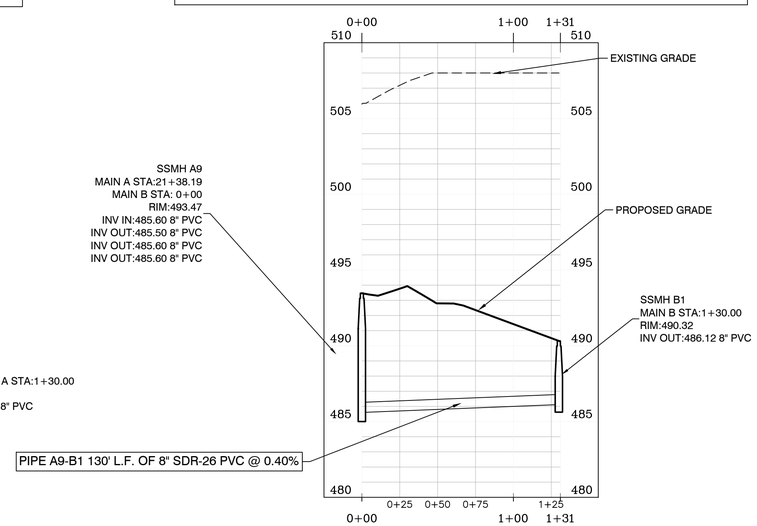


SEWER MAIN C STA. 0+00 – 1+30



SEWER MAIN B STA. 0+00 – 1+30



SCALE: H 1" = 50'
V 1" = 5'

DATE	REVISION	BY

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Bryant, AR 72022
garnatengineering@gmail.com
Ph (501) 408-4650

FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

PRELIMINARY

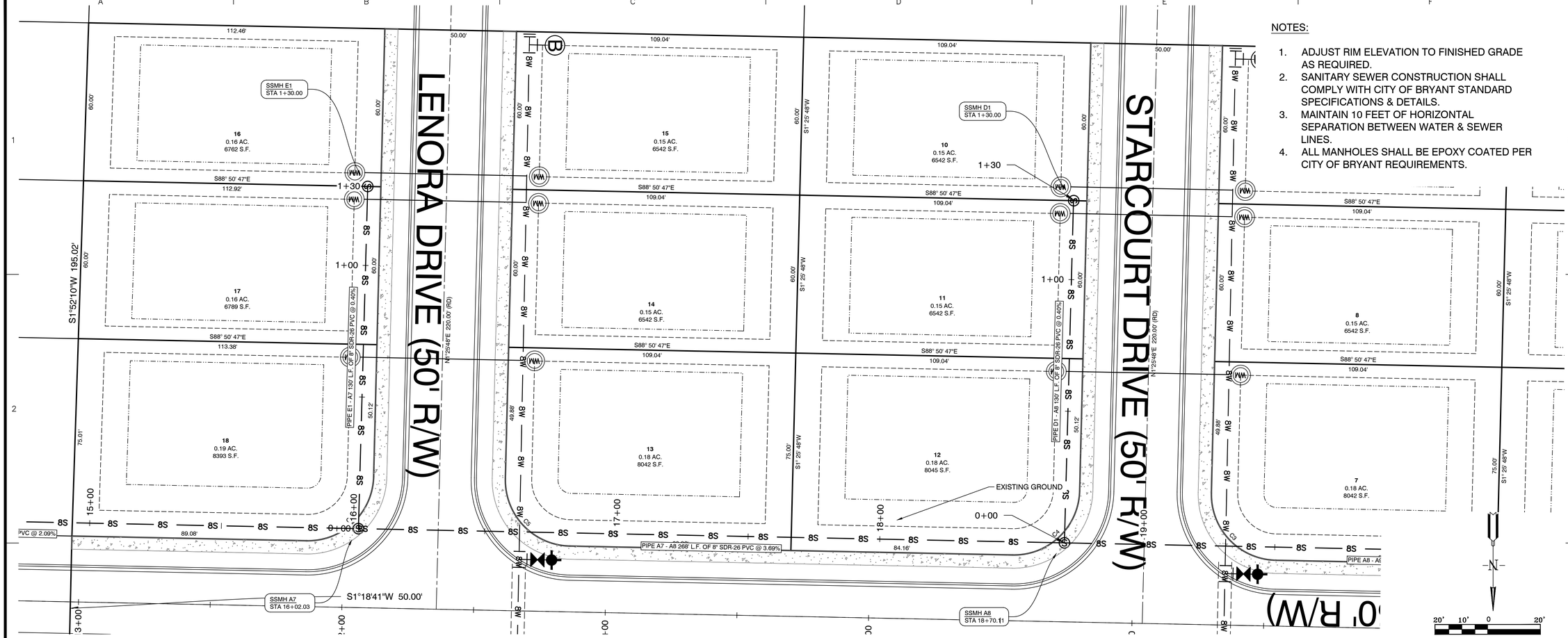
CONTENTS:
SANITARY SEWER PLAN & PROFILE MAIN "B" & MAIN "C" STA. 0+00 - 1+30

PROJECT NO: 24076

DATE: OCTOBER 2024

SHEET NO: 7

a:\Projects\2024 Projects\24076 Hawkins Valley Springdale Road Strawberry Lane Lee Pengelly\Drawings\Dwgs\Design\24076 Hawkins Valley Phase 1 Water and Sewer - 102724.dwg



NOTES:

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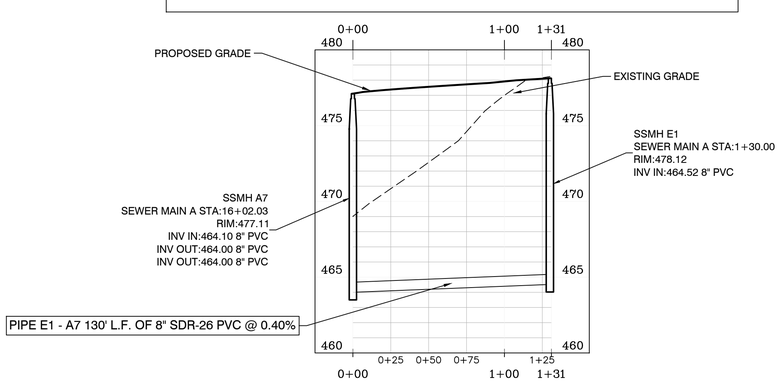
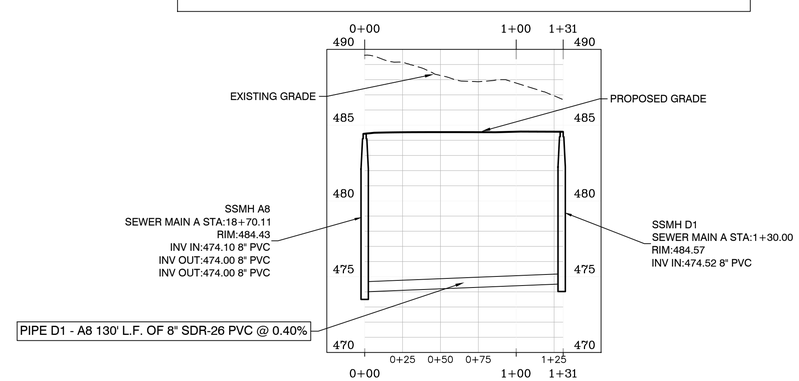
SEWER MAIN E STA. 0+00 – 1+30



SEWER MAIN D STA. 0+00 – 1+30



SCALE: H 1" = 50'
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FOR: THOMAS DB COLLINS, LTD, LLC
HAWKINS VALLEY
PHASE 1
SALINE COUNTY, ARKANSAS

PRELIMINARY

CONTENTS:
SANITARY SEWER PLAN & PROFILE
MAIN "D" & MAIN "E"
STA. 0+00 - 1+30

PROJECT NO: 24076

DATE: OCTOBER 2024

SHEET NO: 8

SEMINARY
DRAINAGE REPORT

Date: **10-09-2024**

Located in: **Bryant, Arkansas**

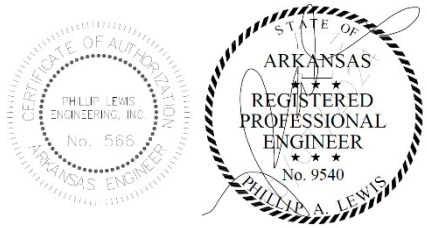
Prepared for:
City of Bryant, Arkansas

Prepared by:

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

CERTIFICATION

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



DATE: 10-09-2024

Phillip A. Lewis, PE.

PROJECT LOCATION MAP

DESCRIPTION OF PROPERTY

The proposed project is for the consruction of a new Seminary located along Highway 5. The proposed development is a 20,000 sq. ft. building, public road and parking lot.

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

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

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

DRAINAGE CRITERIA

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

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

Calculations were performed using the Rational Method, using NOAA rainfall data, and the pipe and intlet structure sizes were determined by the 25-year storm event.

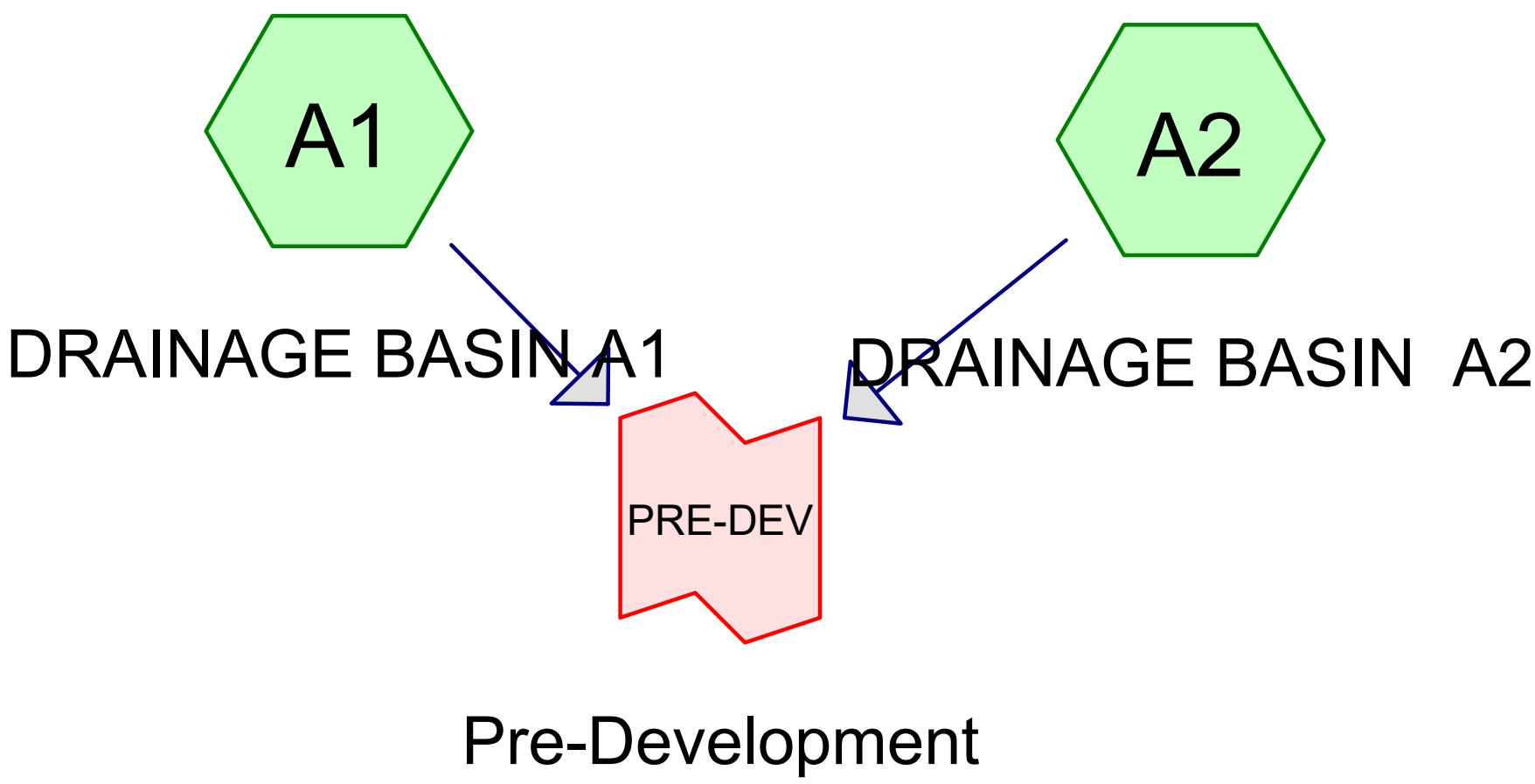
PROPOSED DRAINAGE SYSTEM

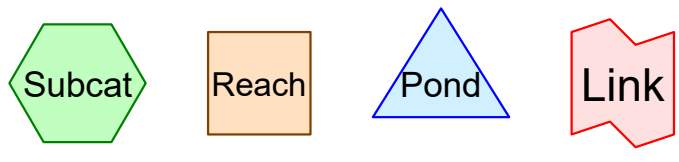
This develompent is designed to capture the majority of runoff within the public road and parking lot curb and gutter. The storm sewer system will consist of with “Nyloplast” area inlets and standard concrete curb inlets. These inlets were sized based on there independent drainage basin flow rate and the slope that the inlets will be placed at.

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

Storm Event	Pre-development Discharge (cfs)	Post-development Discharge (cfs)
2-yr	9.45	12.34
5-yr	11.27	14.72
10-yr	12.73	16.63
25-yr	14.61	19.08
100-yr	17.44	22.78

PRE DEVELOPMENT HYDROGRAPHS





Routing Diagram for Seminary Drainage
Prepared by Phillip Lewis Engineering, Printed 10/9/2024
HydroCAD® 10.20-2c s/n 12520 © 2021 HydroCAD Software Solutions LLC

Summary for Subcatchment A1: DRAINAGE BASIN A1

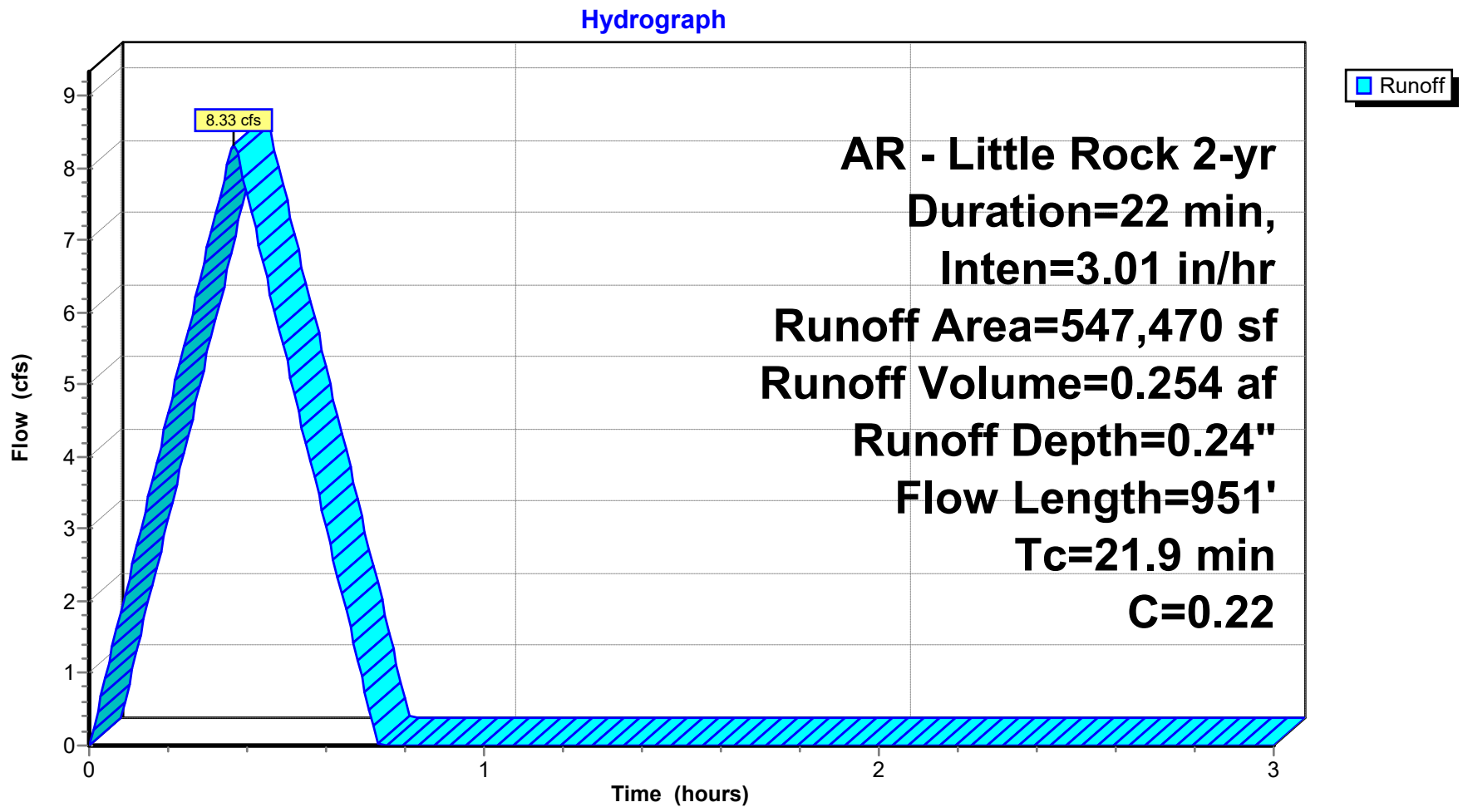
Runoff = 8.33 cfs @ 0.37 hrs, Volume= 0.254 af, Depth= 0.24"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



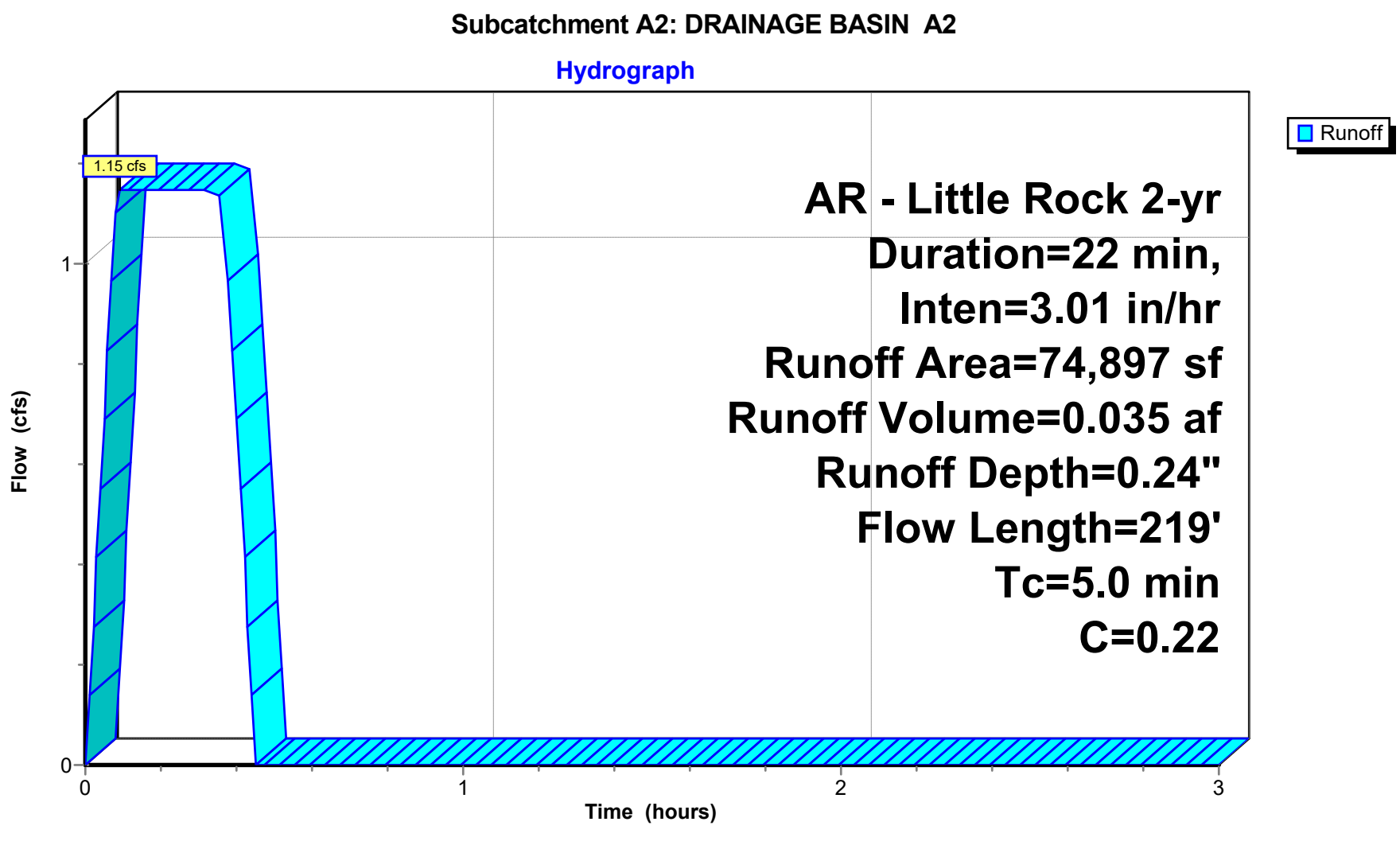
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.15 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.24"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			

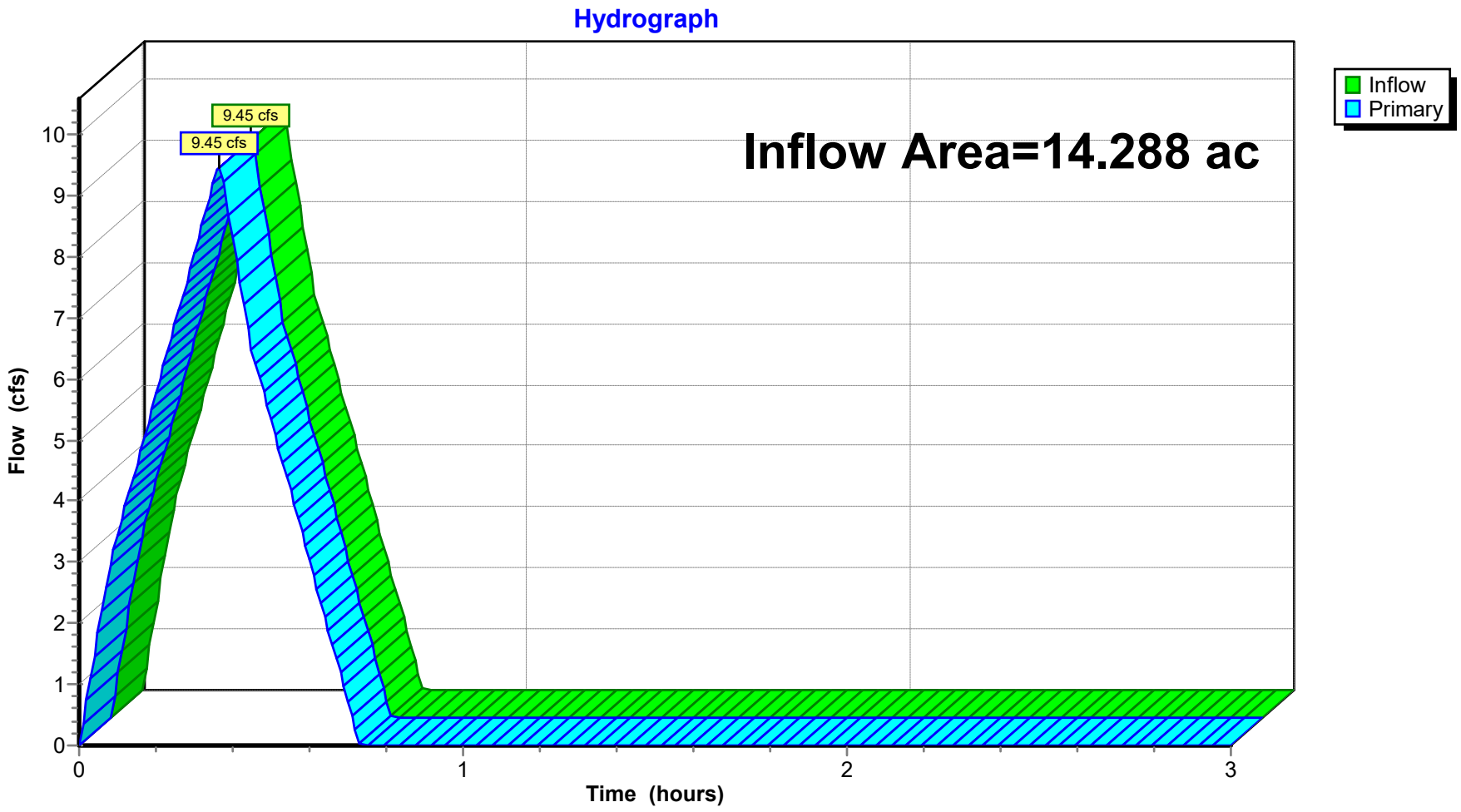


Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.24" for 2-yr event
Inflow = 9.45 cfs @ 0.36 hrs, Volume= 0.289 af
Primary = 9.45 cfs @ 0.36 hrs, Volume= 0.289 af, Atten= 0%, Lag= 0.0 min

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

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

Runoff = 9.94 cfs @ 0.37 hrs, Volume= 0.303 af, Depth= 0.29"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
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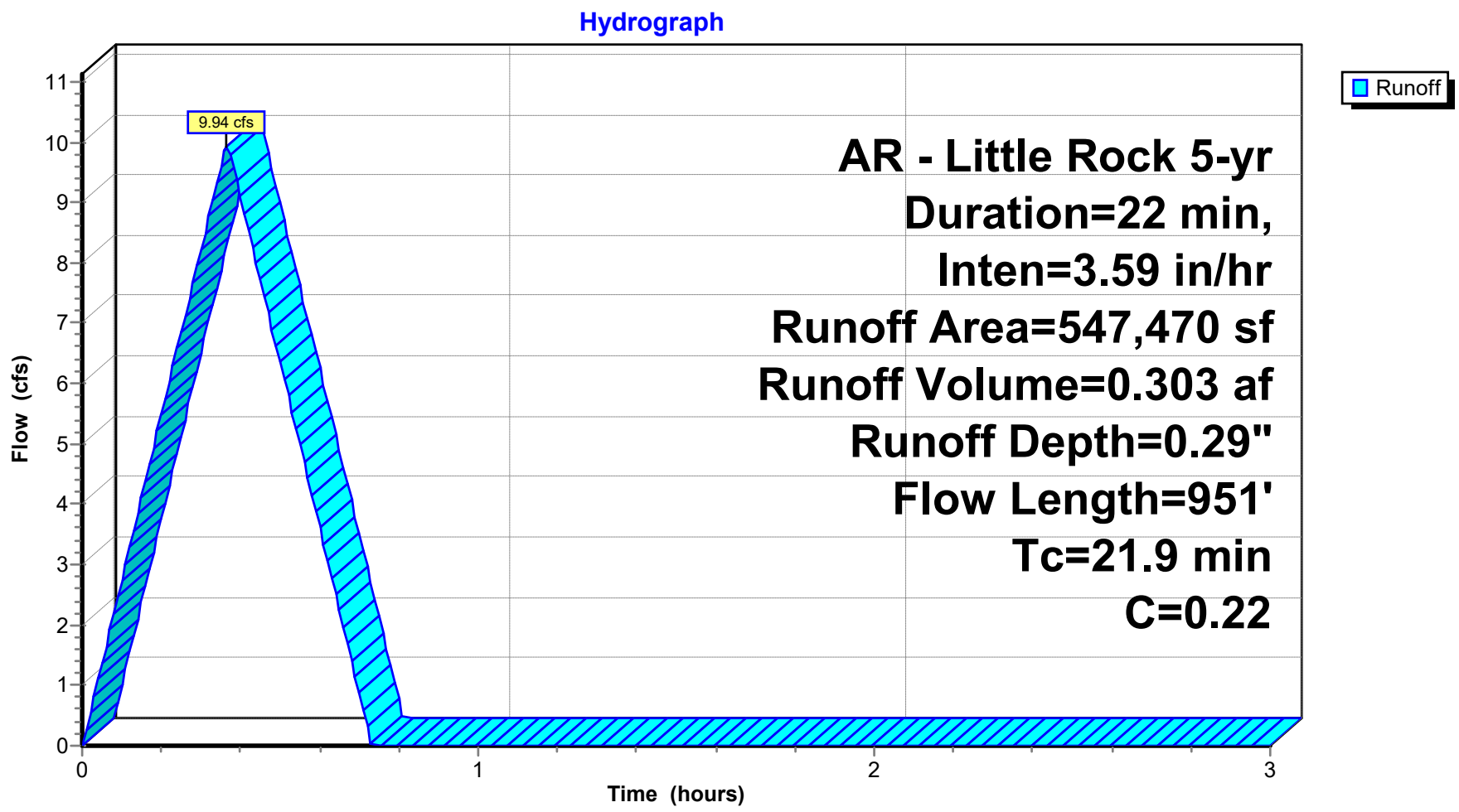
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



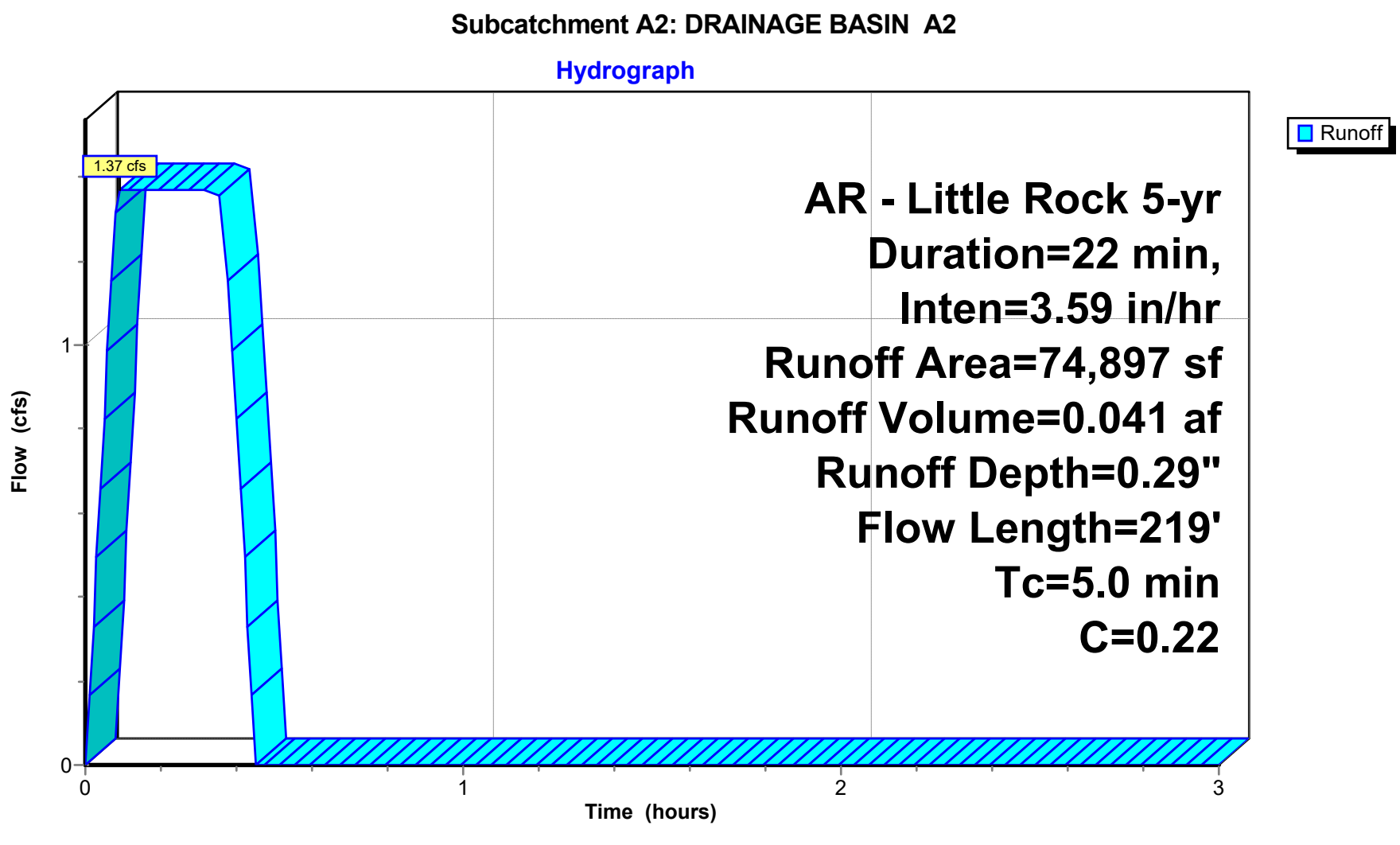
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.37 cfs @ 0.09 hrs, Volume= 0.041 af, Depth= 0.29"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			

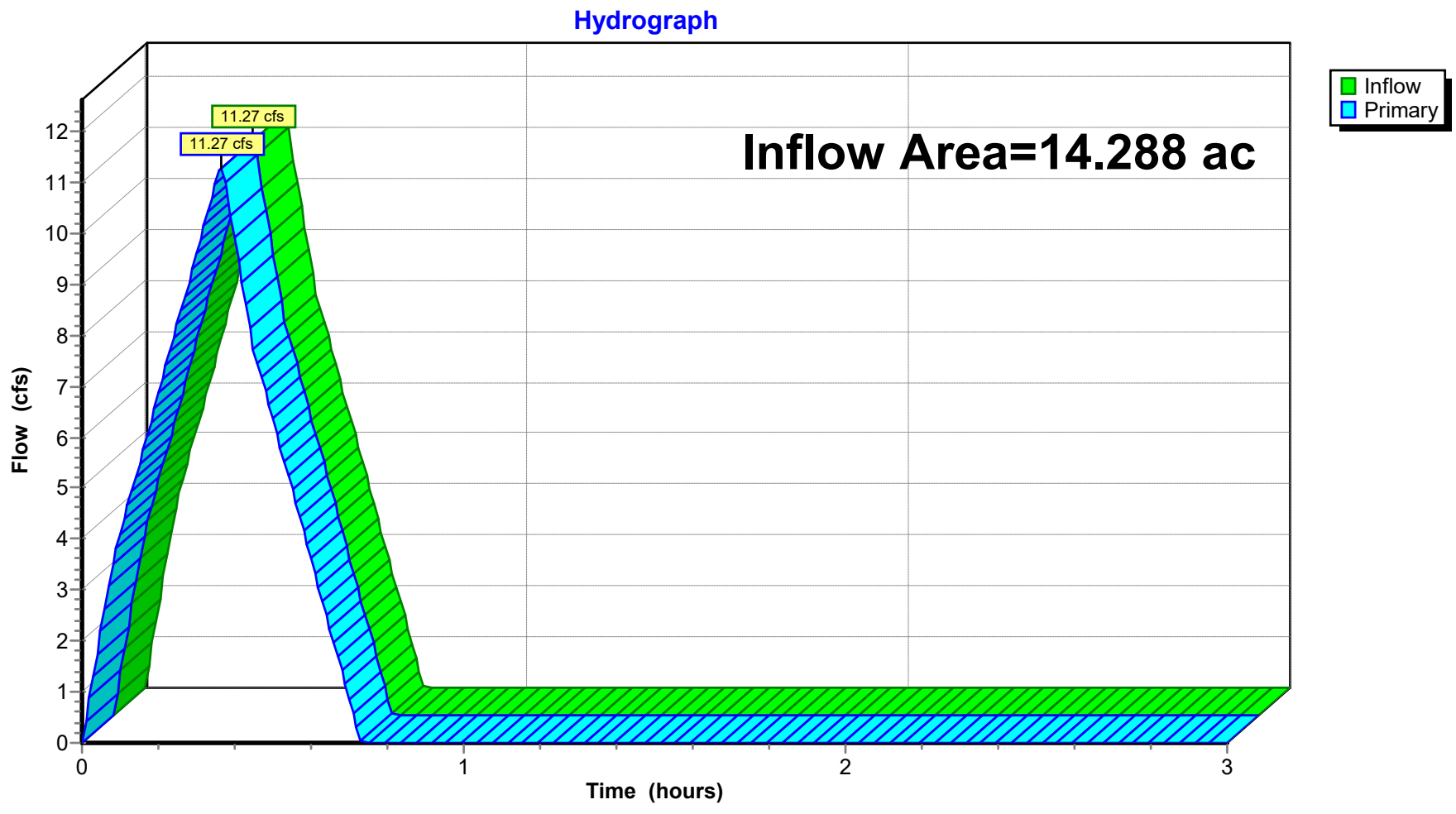


Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.29" for 5-yr event
Inflow = 11.27 cfs @ 0.36 hrs, Volume= 0.345 af
Primary = 11.27 cfs @ 0.36 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

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

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

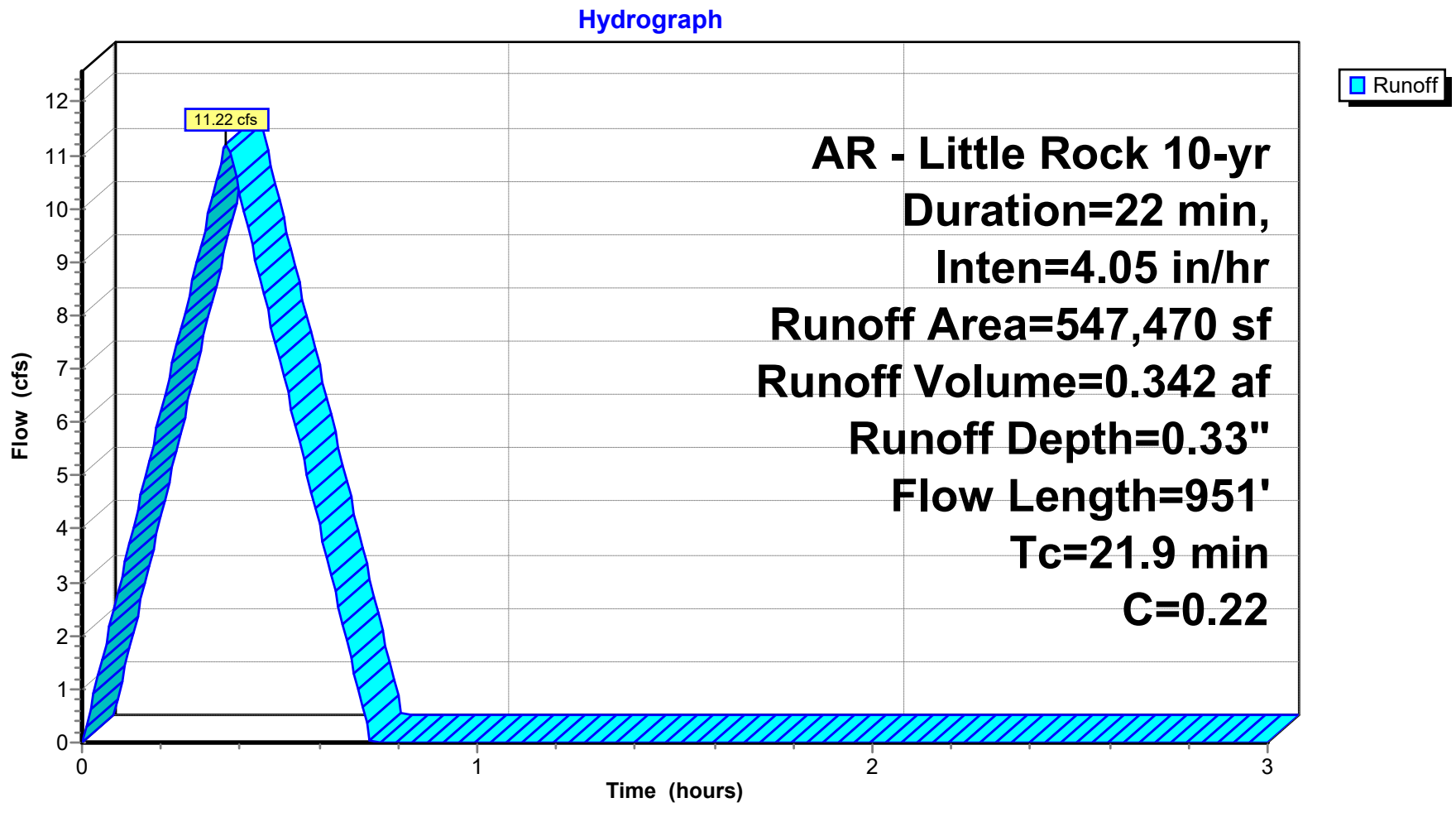
Runoff = 11.22 cfs @ 0.37 hrs, Volume= 0.342 af, Depth= 0.33"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



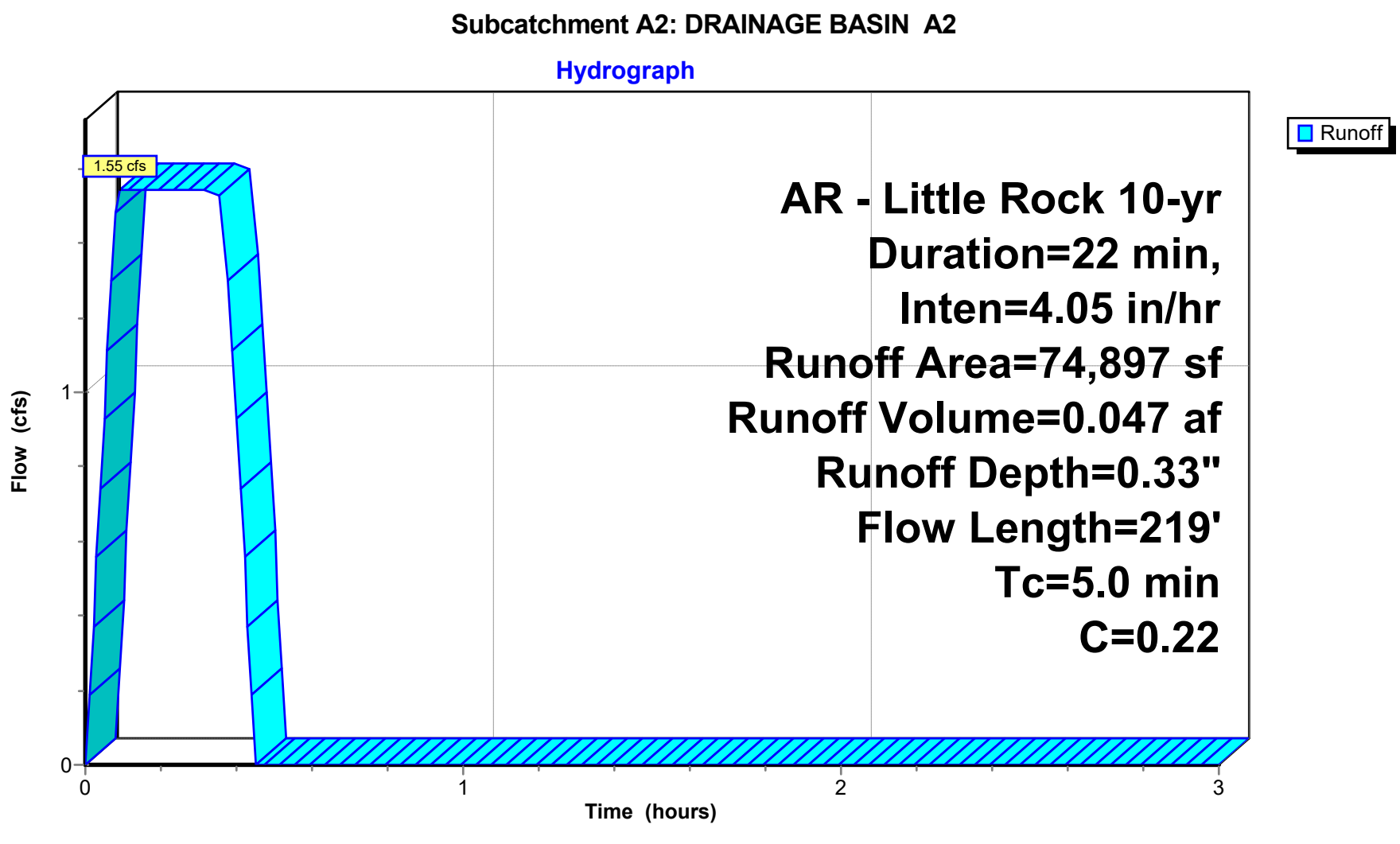
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.55 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 0.33"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			

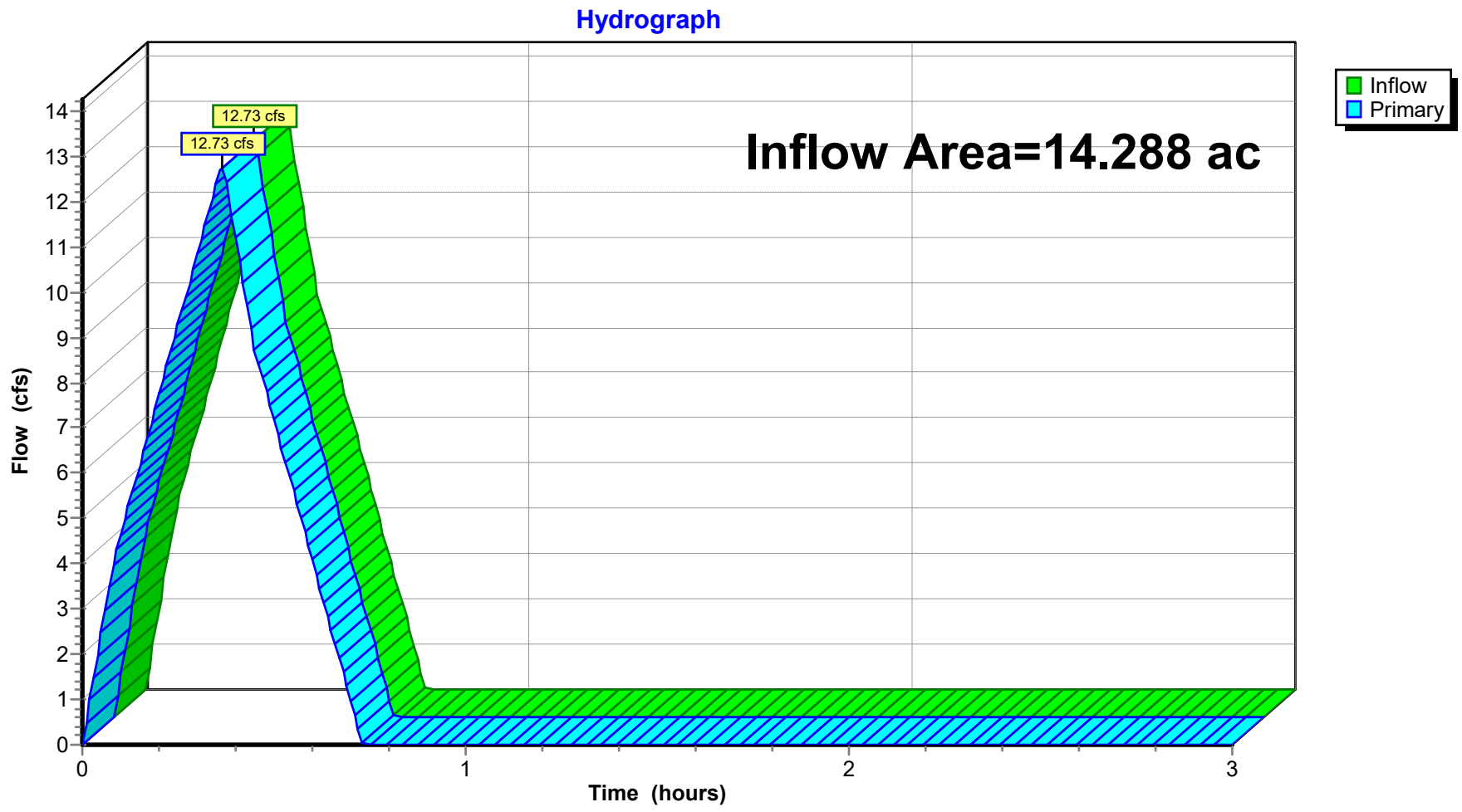


Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.33" for 10-yr event
Inflow = 12.73 cfs @ 0.36 hrs, Volume= 0.389 af
Primary = 12.73 cfs @ 0.36 hrs, Volume= 0.389 af, Atten= 0%, Lag= 0.0 min

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

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

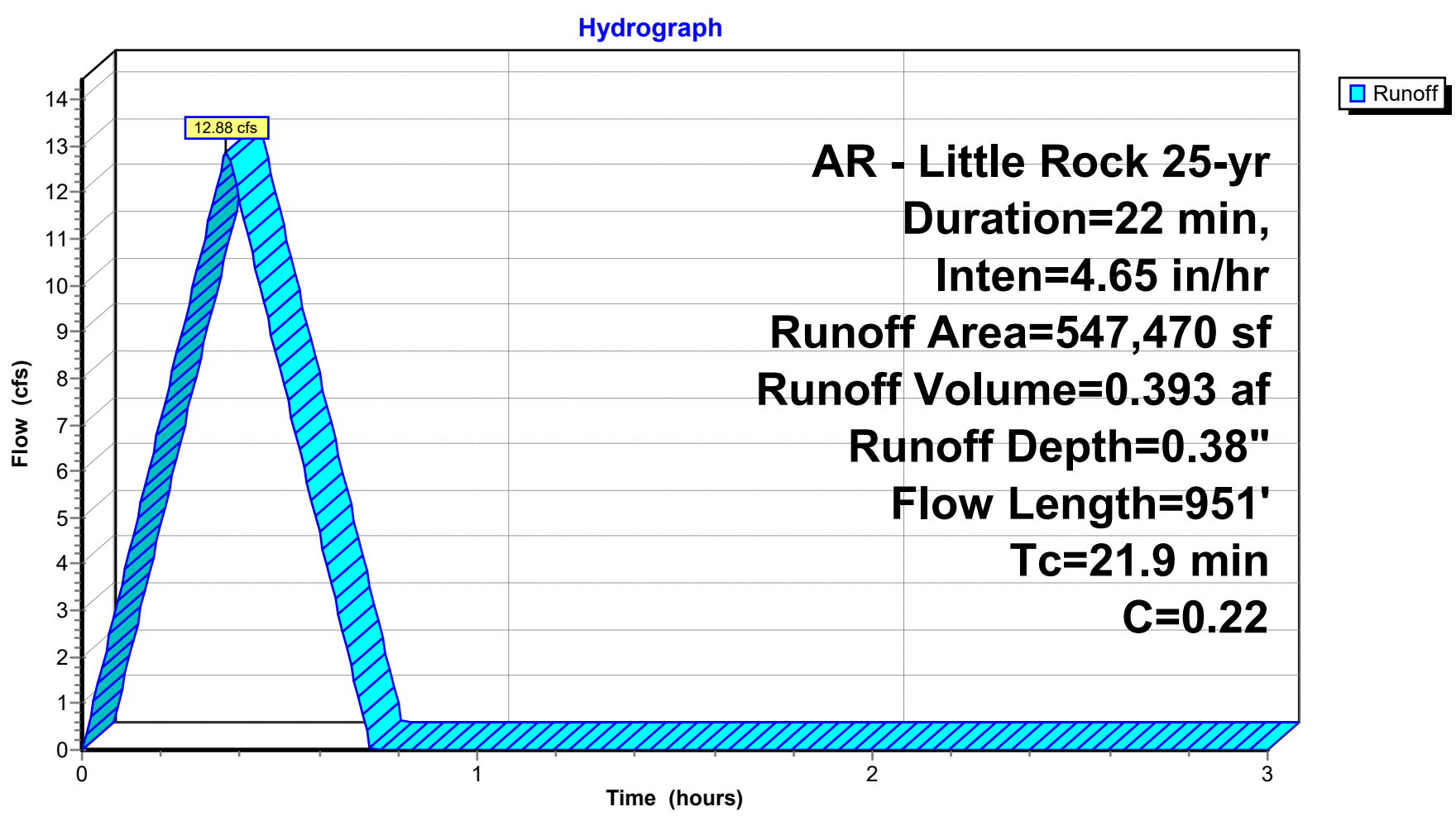
Runoff = 12.88 cfs @ 0.37 hrs, Volume= 0.393 af, Depth= 0.38"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



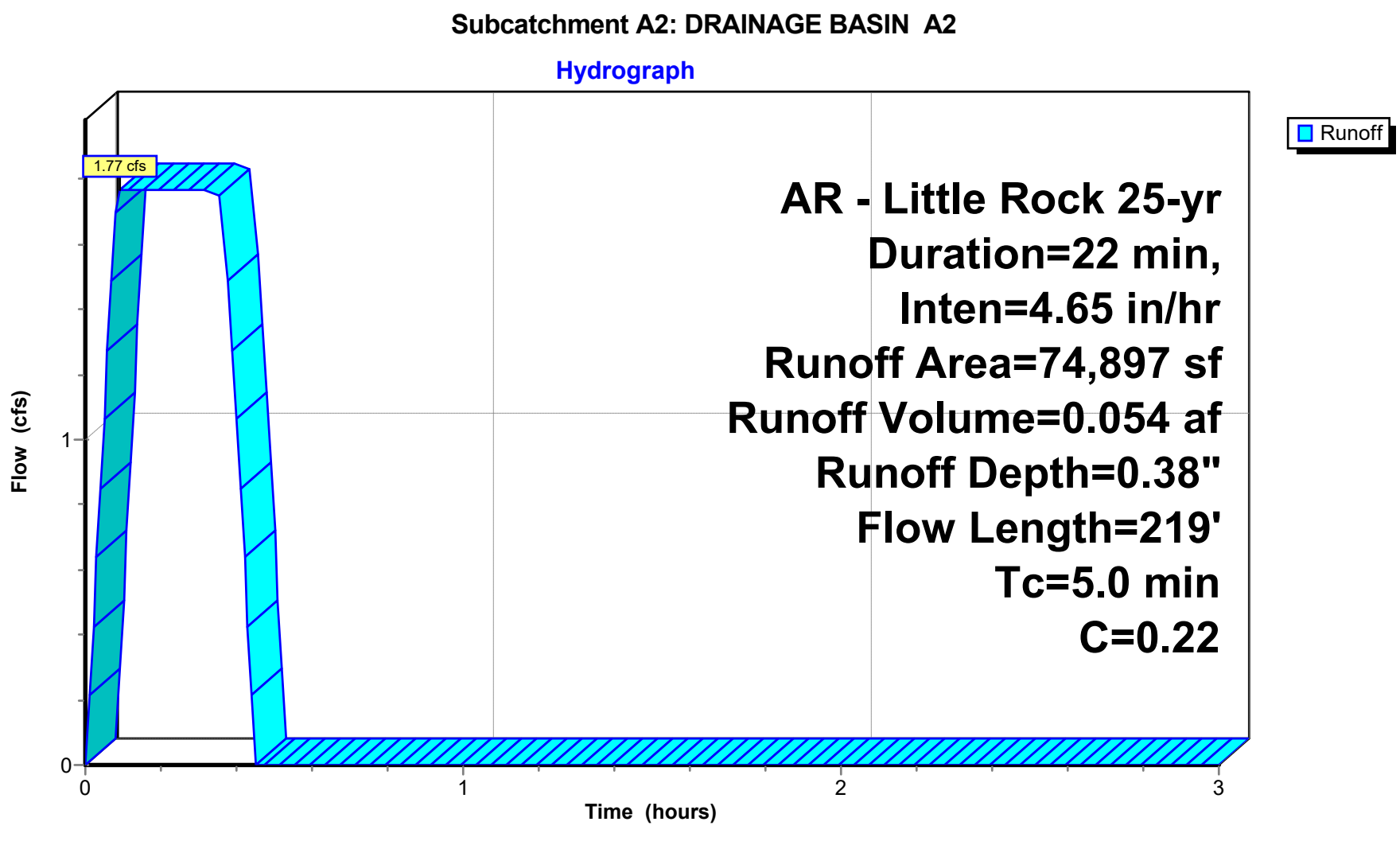
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 1.77 cfs @ 0.09 hrs, Volume= 0.054 af, Depth= 0.38"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			

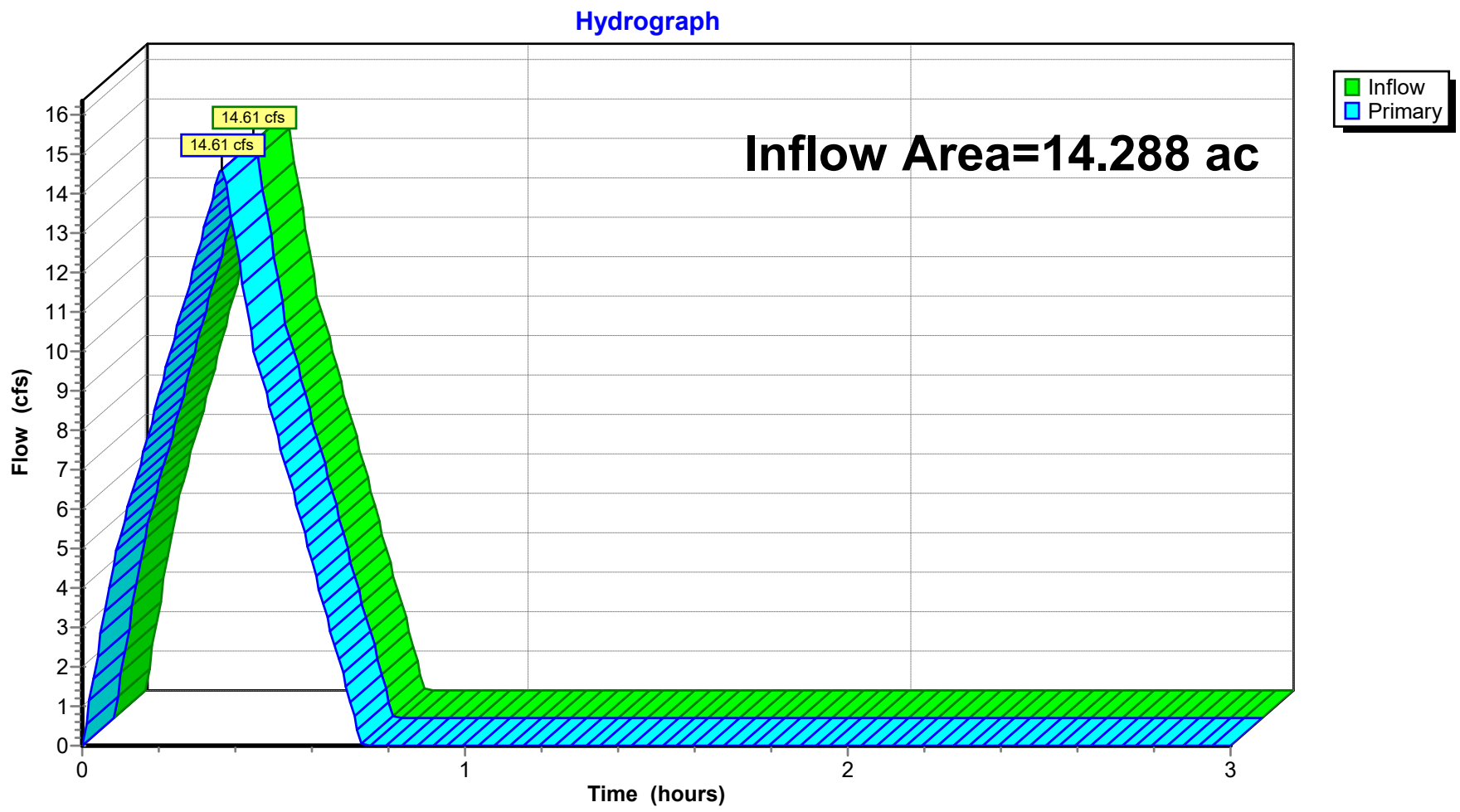


Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.38" for 25-yr event
Inflow = 14.61 cfs @ 0.36 hrs, Volume= 0.447 af
Primary = 14.61 cfs @ 0.36 hrs, Volume= 0.447 af, Atten= 0%, Lag= 0.0 min

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

Link PRE-DEV: Pre-Development



Summary for Subcatchment A1: DRAINAGE BASIN A1

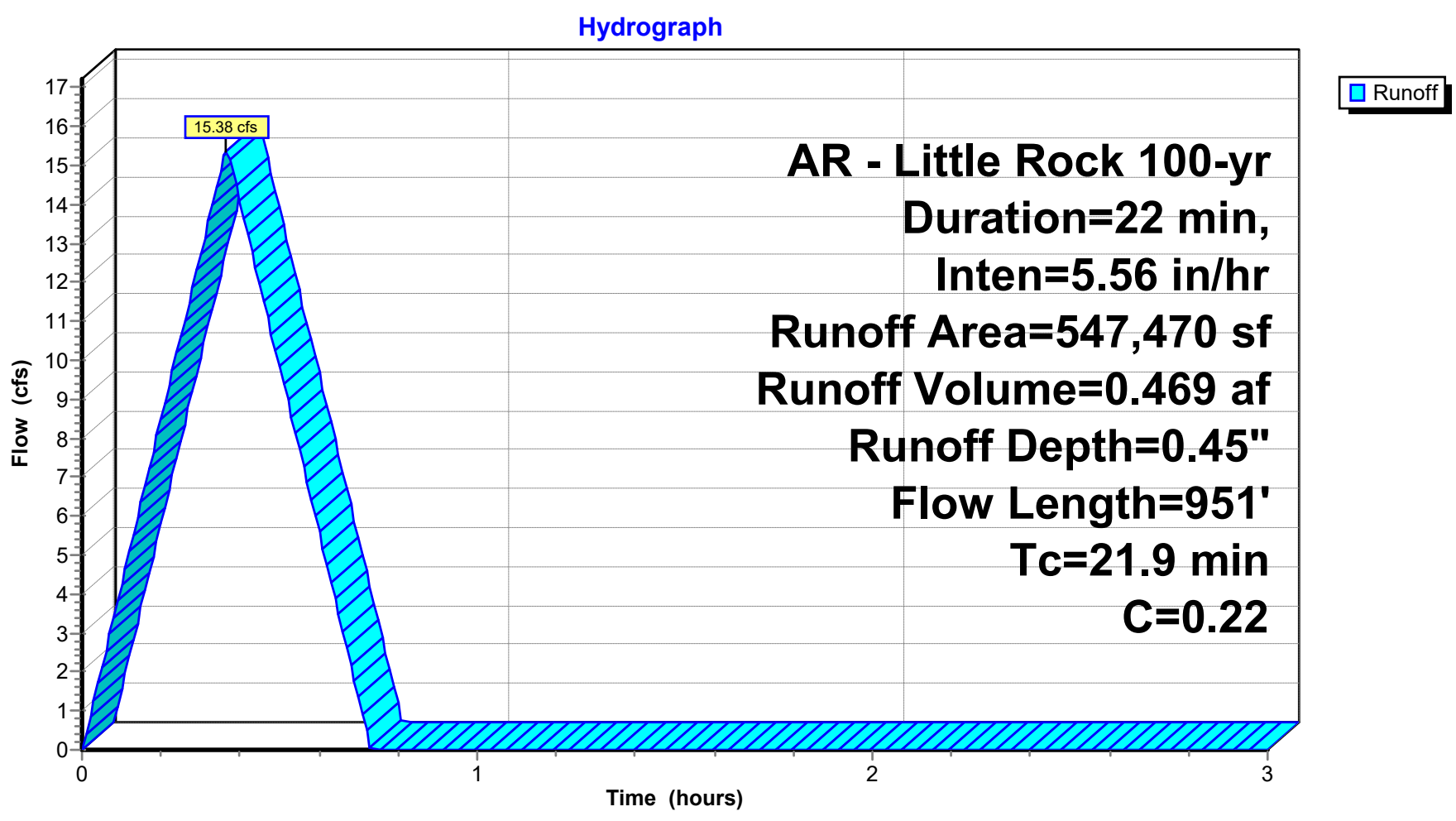
Runoff = 15.38 cfs @ 0.37 hrs, Volume= 0.469 af, Depth= 0.45"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
547,470	0.22	Sandy Soil 2-7% per manual (undeveloped)
547,470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.2	96	0.0840	0.16		**Sheet Flow,** Woods: Light underbrush n= 0.400 P2= 4.20"
0.7	76	0.0710	1.87		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	76	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.4	47	0.0660	1.80		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	28	0.0640	1.77		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.2	25	0.0590	1.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.8	80	0.0580	1.69		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.2	107	0.0430	1.45		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	42	0.0180	0.94		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.7	49	0.0300	1.21		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.5	158	0.0220	1.04		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	67	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.1	45	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.3	55	0.0100	0.70		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
21.9	951	Total			

Subcatchment A1: DRAINAGE BASIN A1



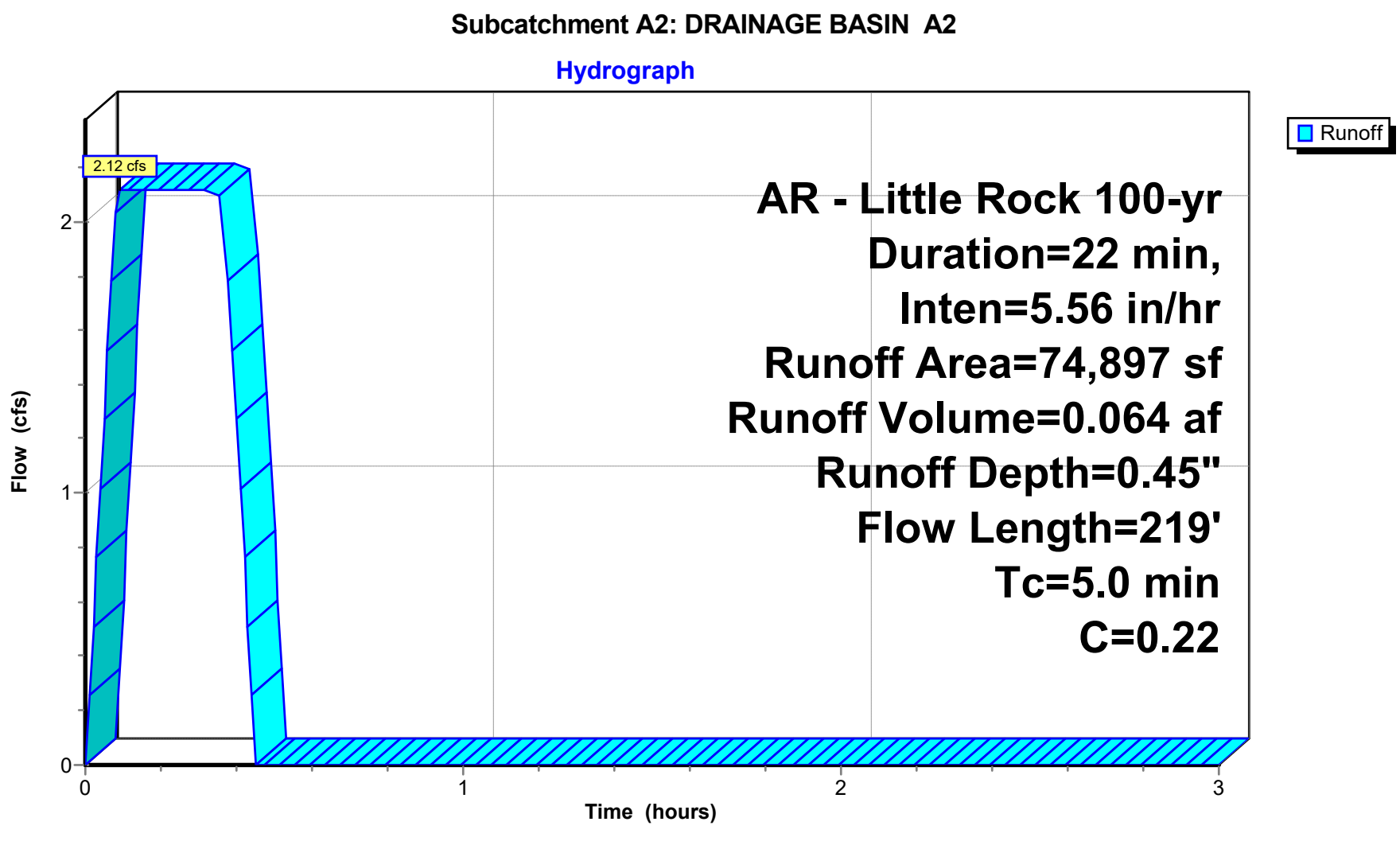
Summary for Subcatchment A2: DRAINAGE BASIN A2

Runoff = 2.12 cfs @ 0.09 hrs, Volume= 0.064 af, Depth= 0.45"
Routed to Link PRE-DEV : Pre-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
74,897	0.22	2-7% Sandy per LR Manual
74,897		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	12	0.0330	1.27		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
1.9	144	0.0310	1.23		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.3	18	0.0200	0.99		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
0.6	45	0.0340	1.29		**Shallow Concentrated Flow,** Short Grass Pasture Kv= 7.0 fps
2.0					**Direct Entry, min adjustment**
5.0	219	Total			



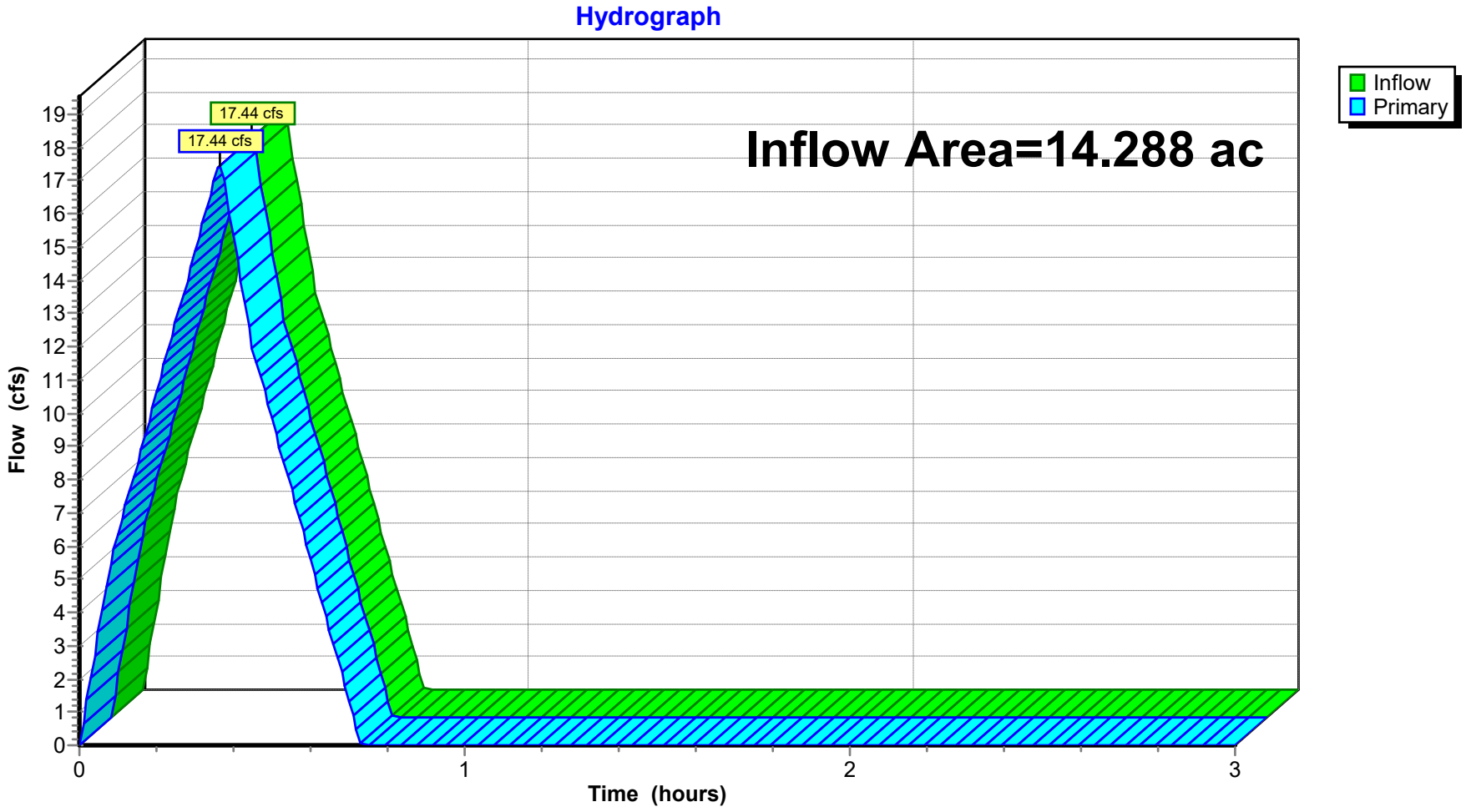
Summary for Link PRE-DEV: Pre-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.45" for 100-yr event
Inflow = 17.44 cfs @ 0.36 hrs, Volume= 0.533 af
Primary = 17.44 cfs @ 0.36 hrs, Volume= 0.533 af, Atten= 0%, Lag= 0.0 min

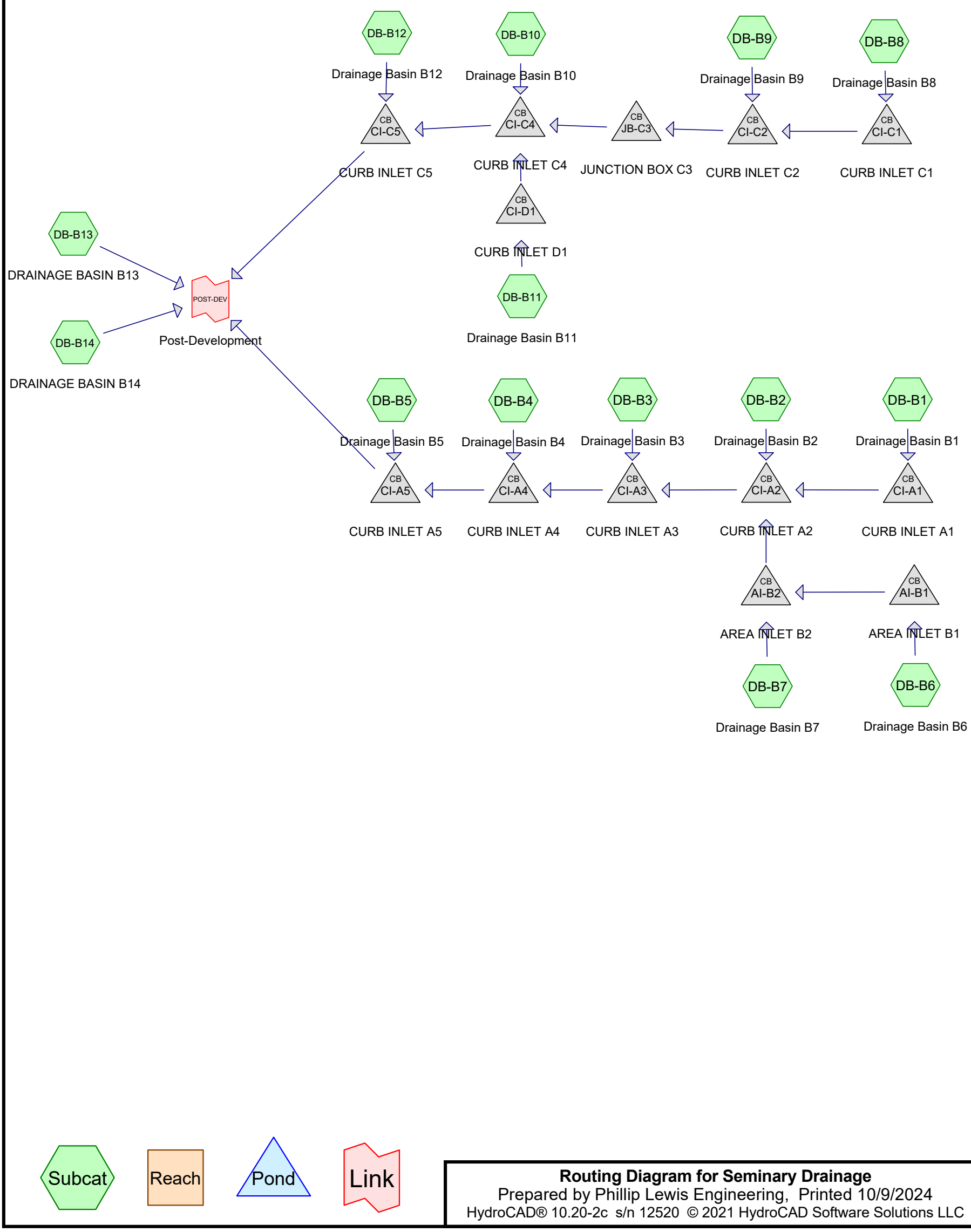
Primary outflow = Inflow, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs

Link PRE-DEV: Pre-Development

Hydrograph



POST DEVELOPMENT HYDROGRAPHS



Routing Diagram for Seminary Drainage
Prepared by Phillip Lewis Engineering, Printed 10/9/2024
HydroCAD® 10.20-2c s/n 12520 © 2021 HydroCAD Software Solutions LLC

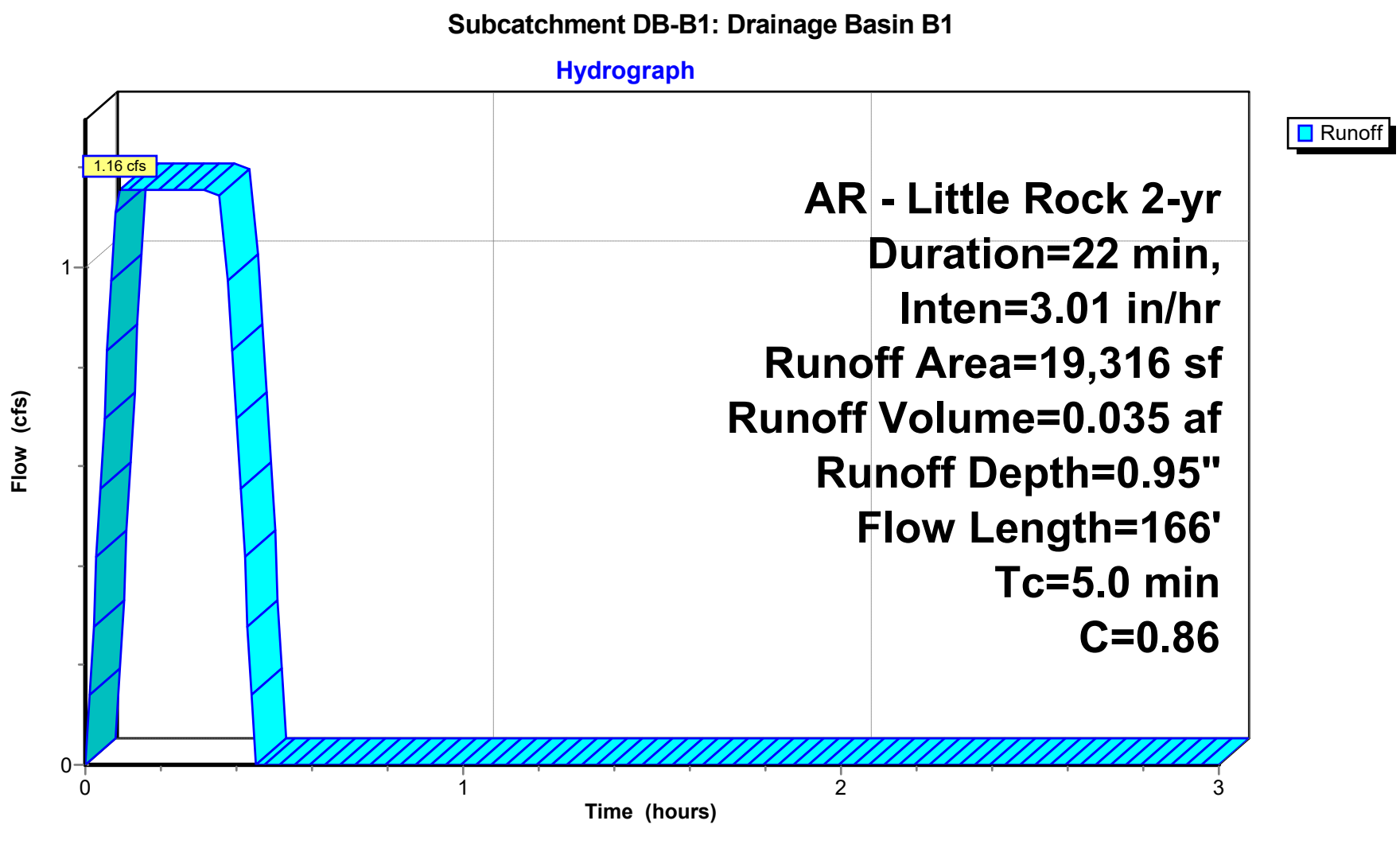
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.16 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.95"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

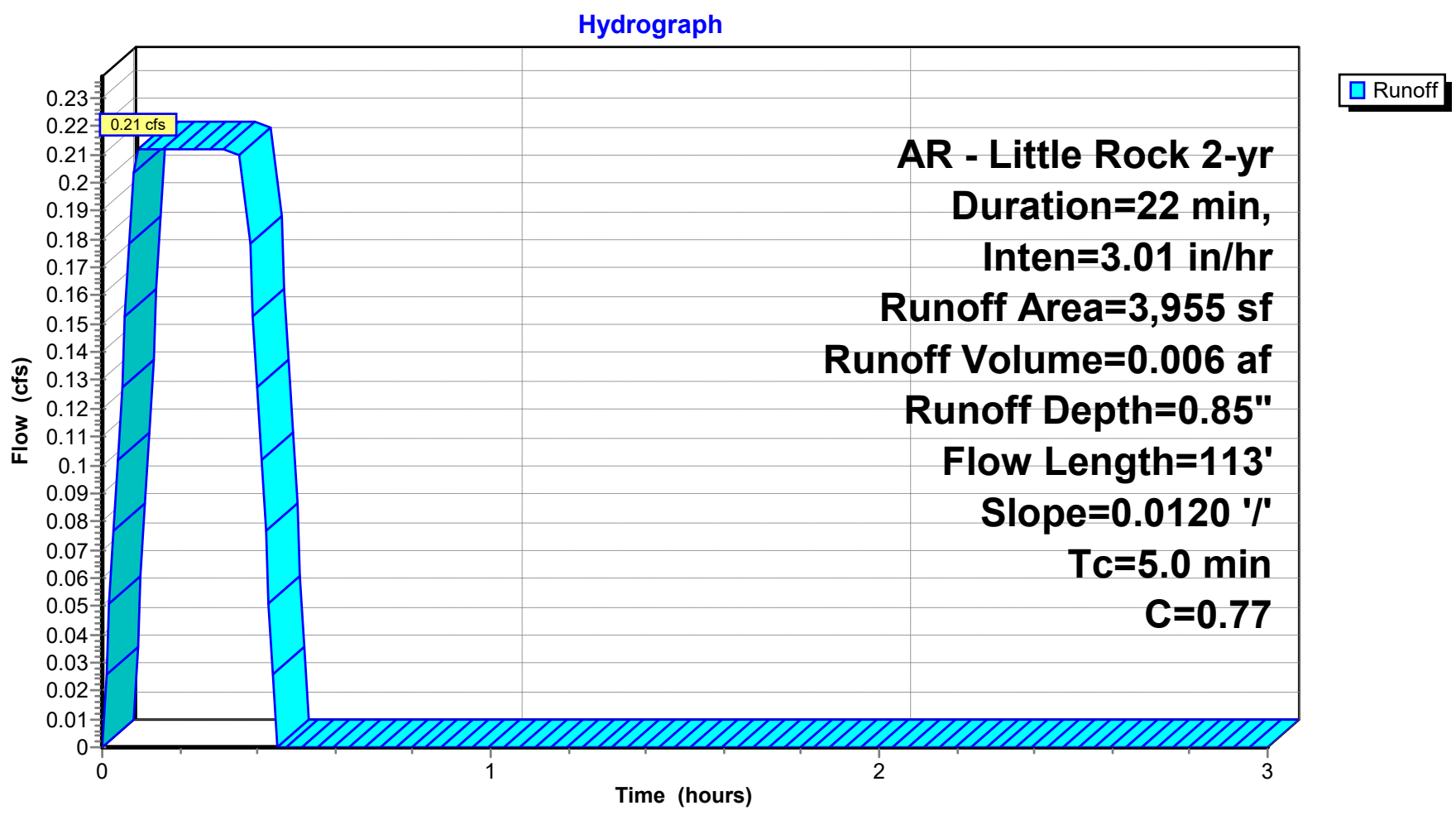
Runoff = 0.21 cfs @ 0.09 hrs, Volume= 0.006 af, Depth= 0.85"
Routed to Pond CI-C4 : CURB INLET C4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10



Summary for Subcatchment DB-B11: Drainage Basin B11

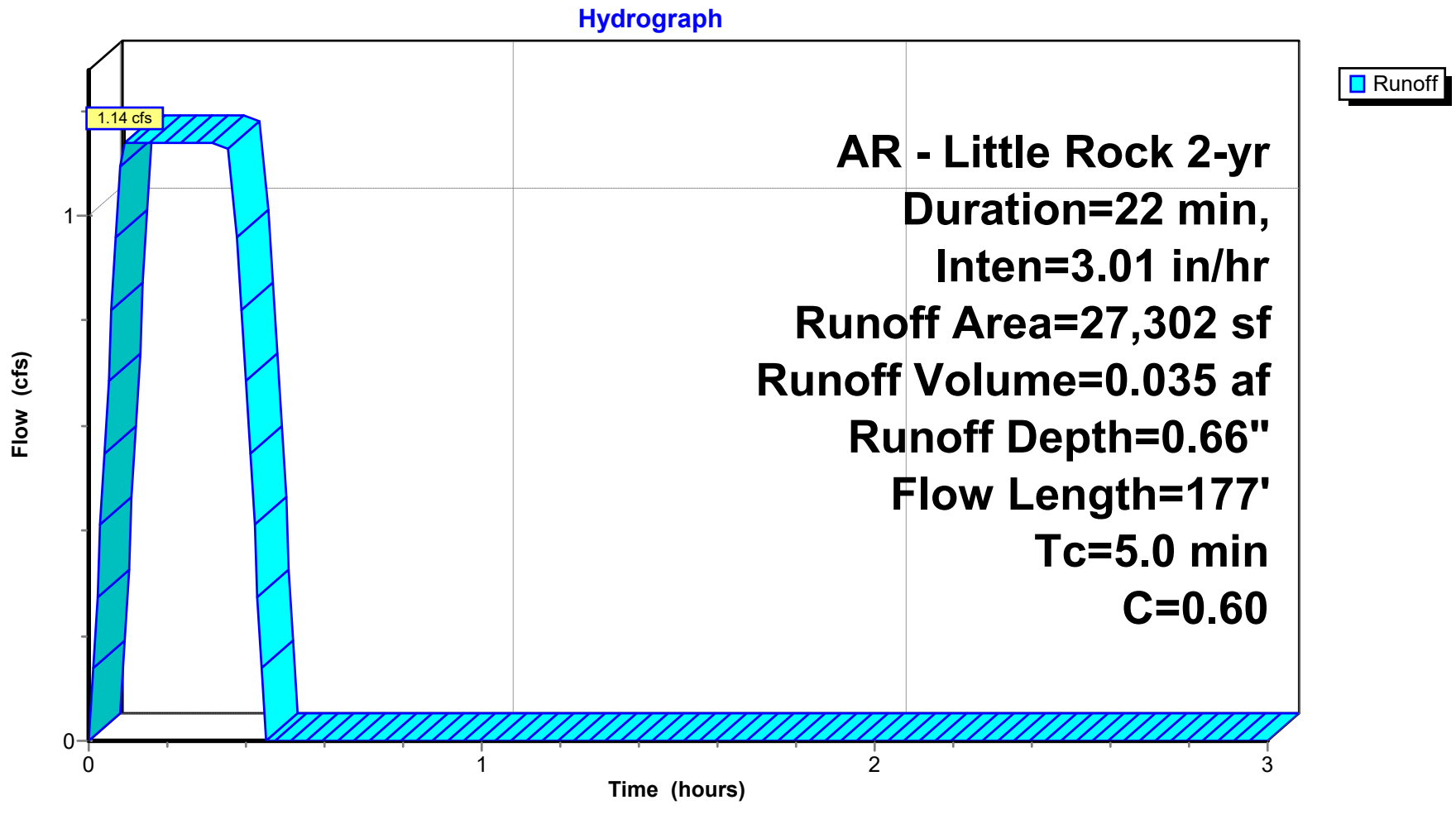
Runoff = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 0.66"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof**
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace**
					Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			

Subcatchment DB-B11: Drainage Basin B11



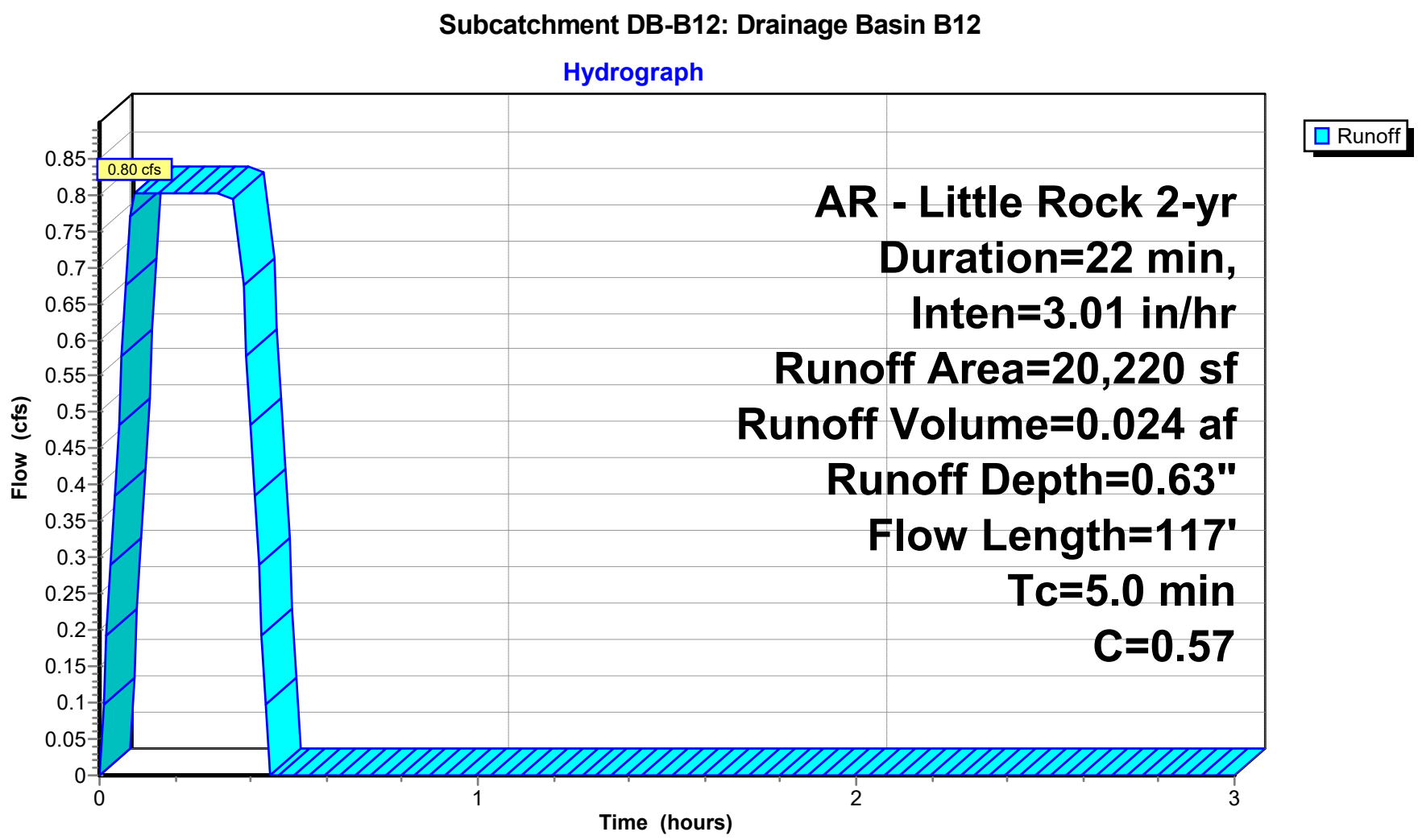
Summary for Subcatchment DB-B12: Drainage Basin B12

Runoff = 0.80 cfs @ 0.09 hrs, Volume= 0.024 af, Depth= 0.63"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

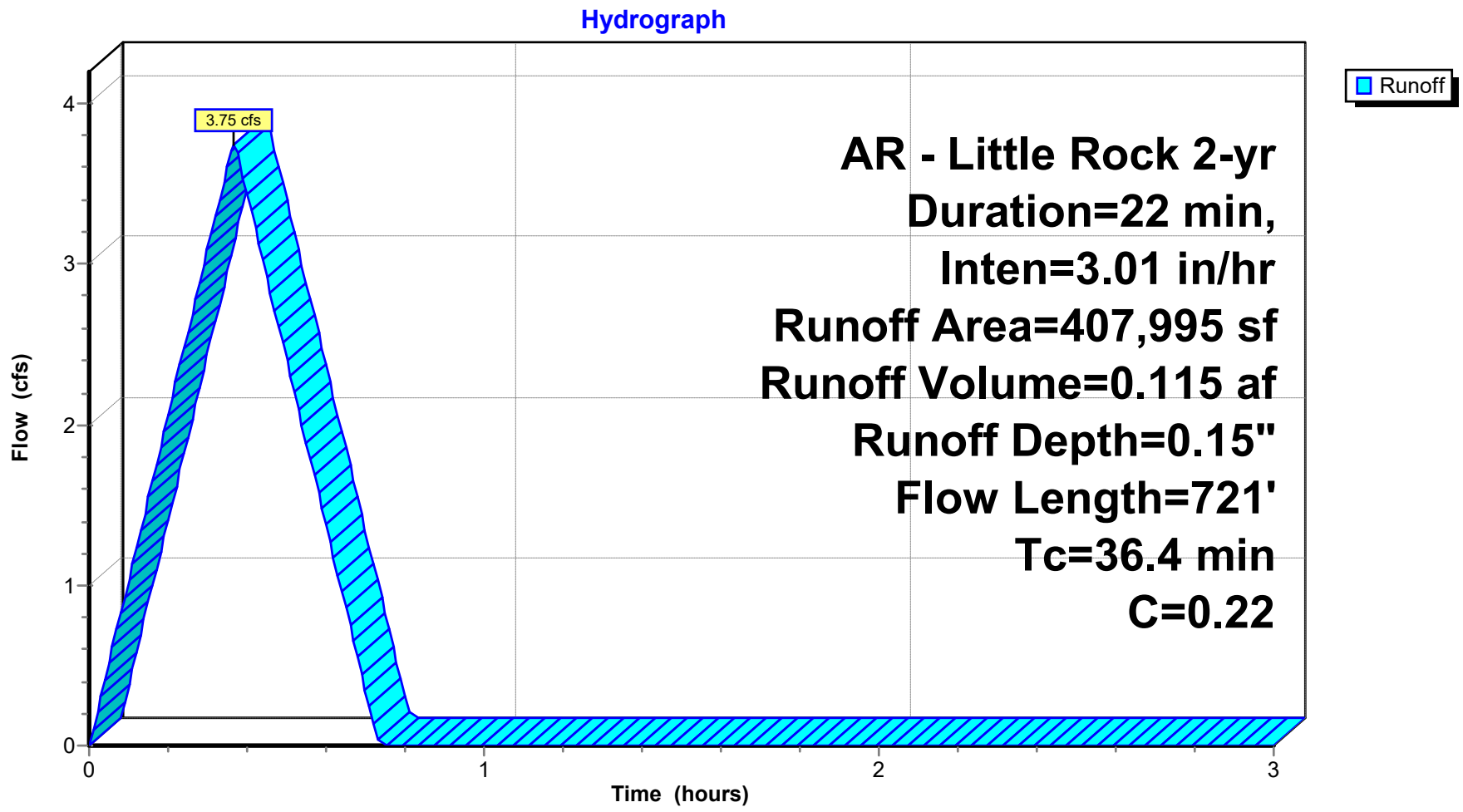
Runoff = 3.75 cfs @ 0.37 hrs, Volume= 0.115 af, Depth= 0.15"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13



Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

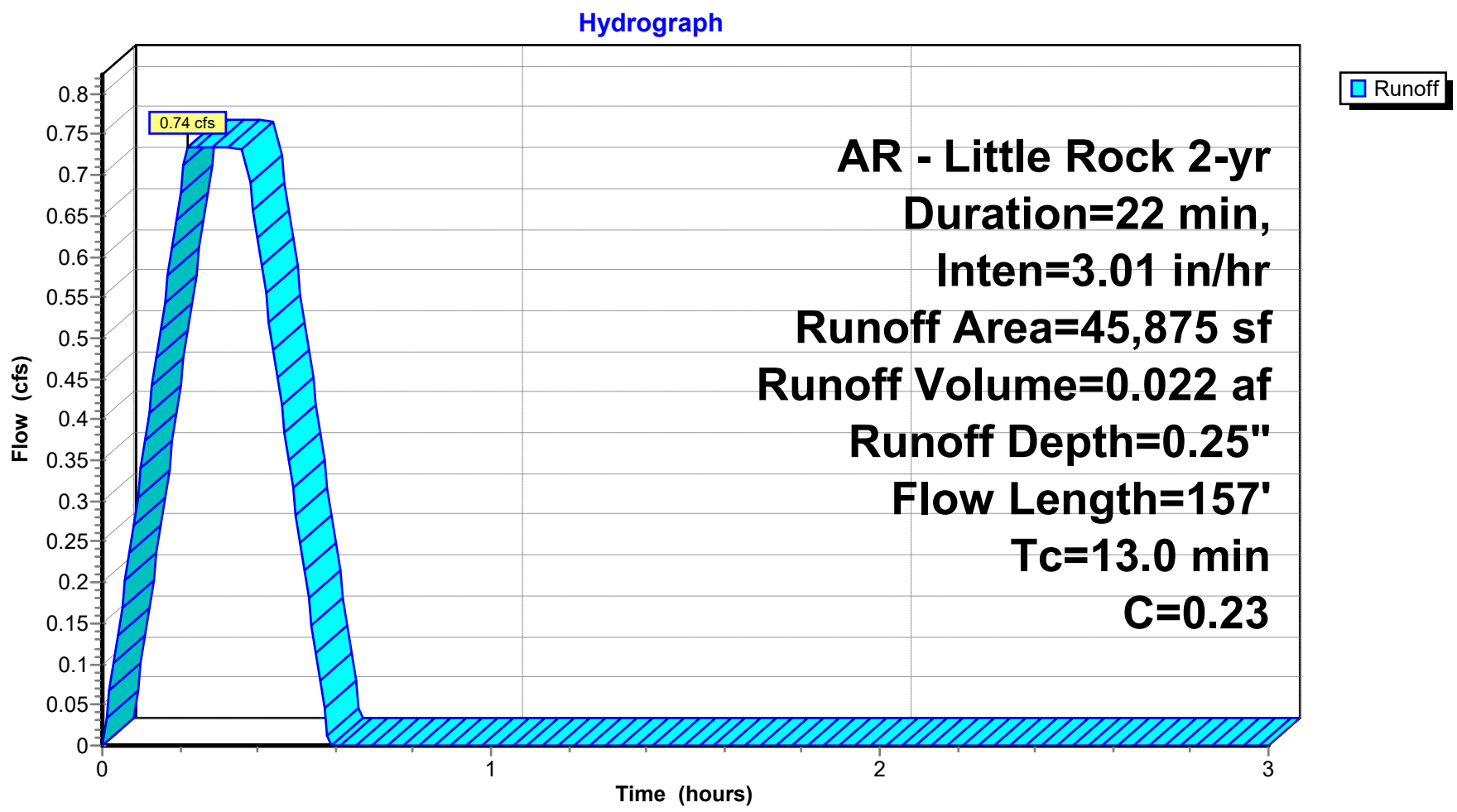
Runoff = 0.74 cfs @ 0.22 hrs, Volume= 0.022 af, Depth= 0.25"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			

Subcatchment DB-B14: DRAINAGE BASIN B14



Summary for Subcatchment DB-B2: Drainage Basin B2

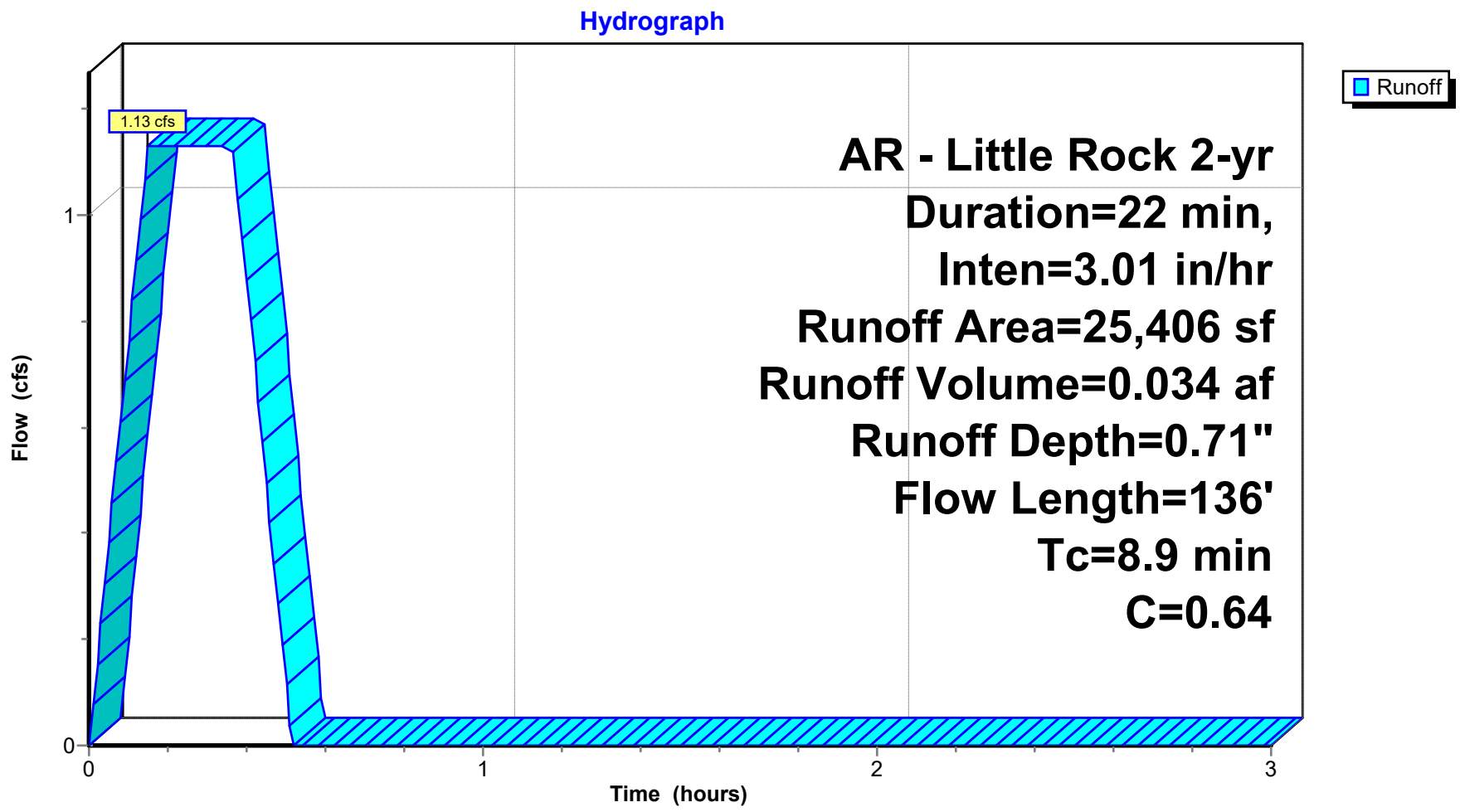
Runoff = 1.13 cfs @ 0.15 hrs, Volume= 0.034 af, Depth= 0.71"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



Summary for Subcatchment DB-B3: Drainage Basin B3

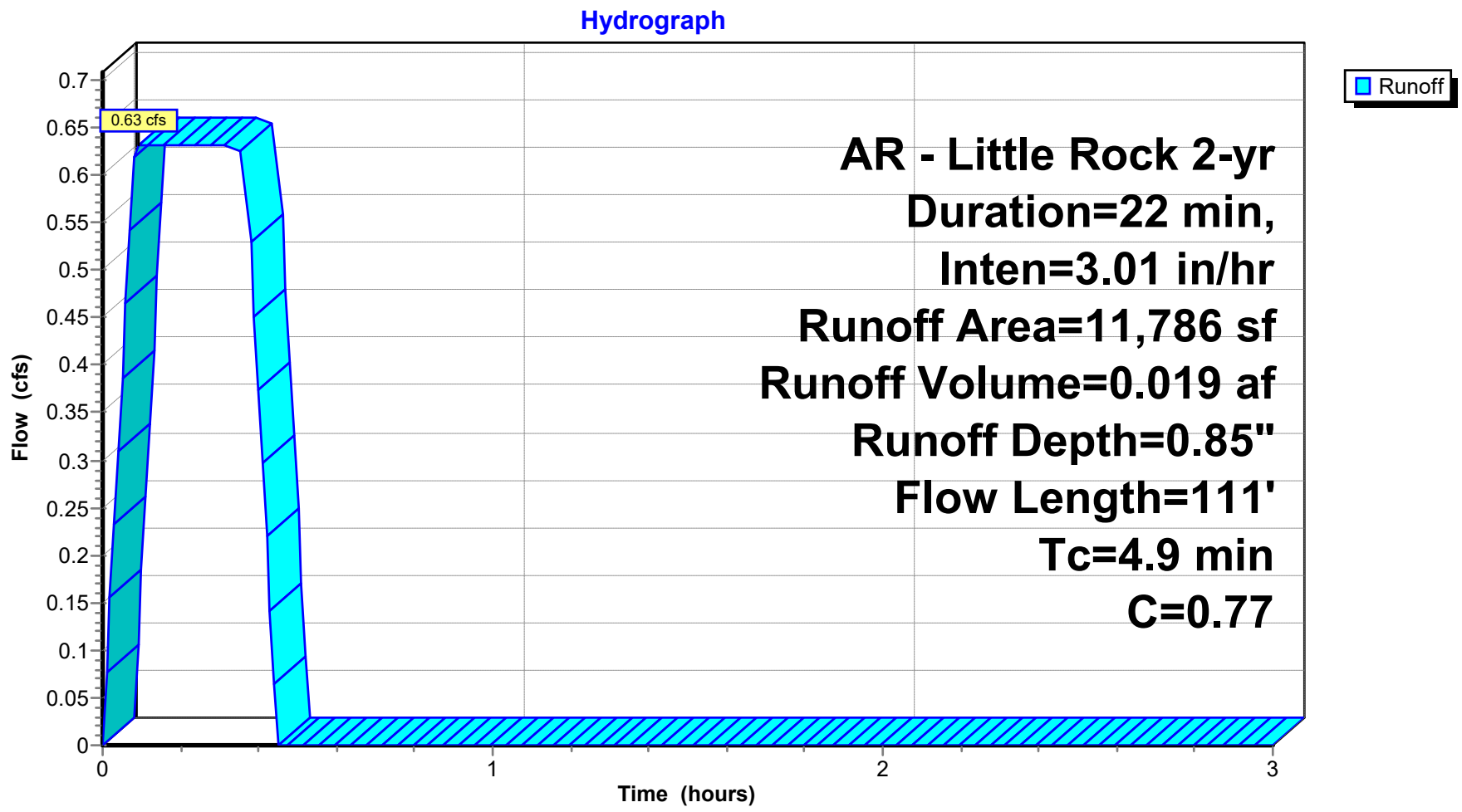
Runoff = 0.63 cfs @ 0.09 hrs, Volume= 0.019 af, Depth= 0.85"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3



Summary for Subcatchment DB-B4: Drainage Basin B4

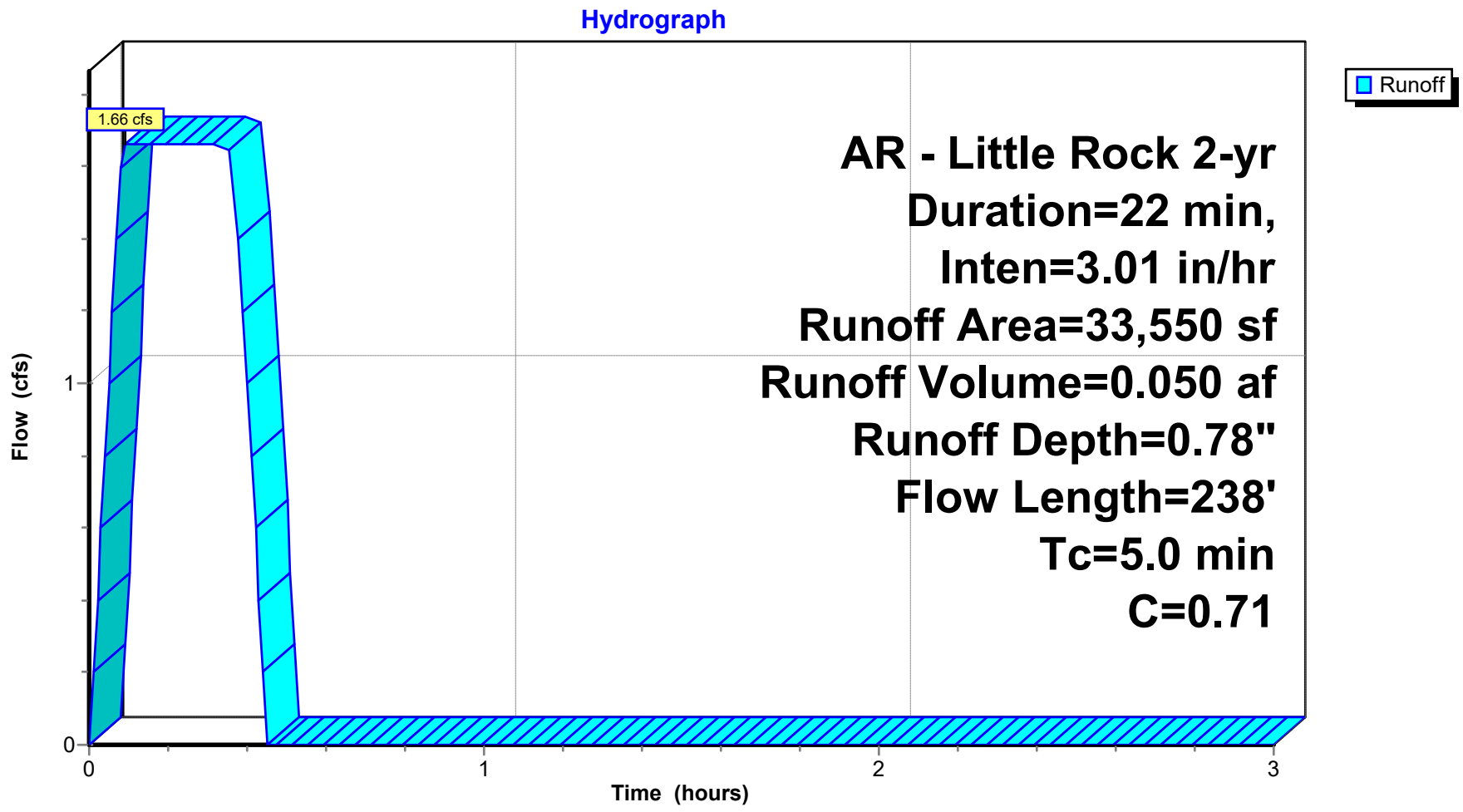
Runoff = 1.66 cfs @ 0.09 hrs, Volume= 0.050 af, Depth= 0.78"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



Summary for Subcatchment DB-B5: Drainage Basin B5

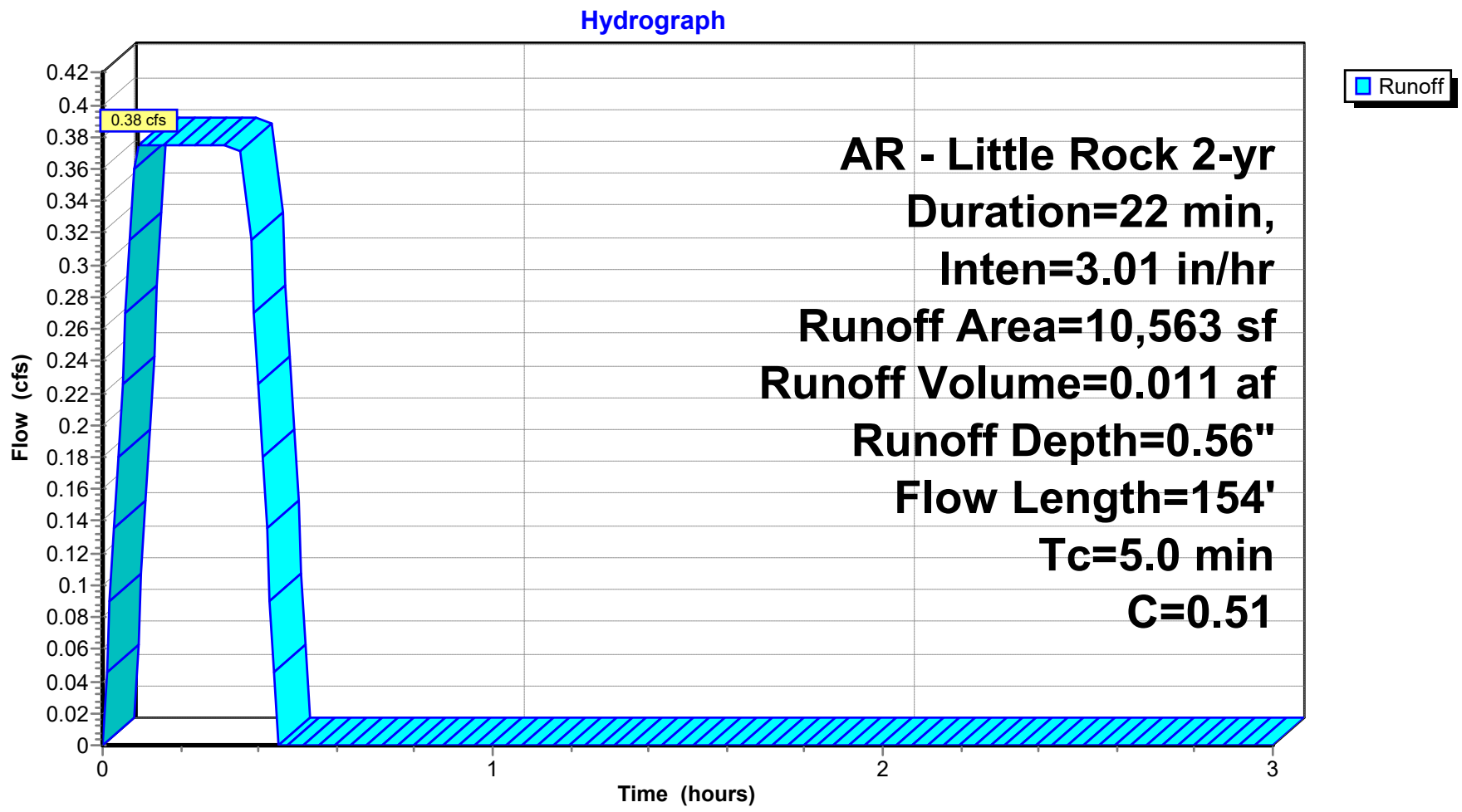
Runoff = 0.38 cfs @ 0.09 hrs, Volume= 0.011 af, Depth= 0.56"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			

Subcatchment DB-B5: Drainage Basin B5



Summary for Subcatchment DB-B6: Drainage Basin B6

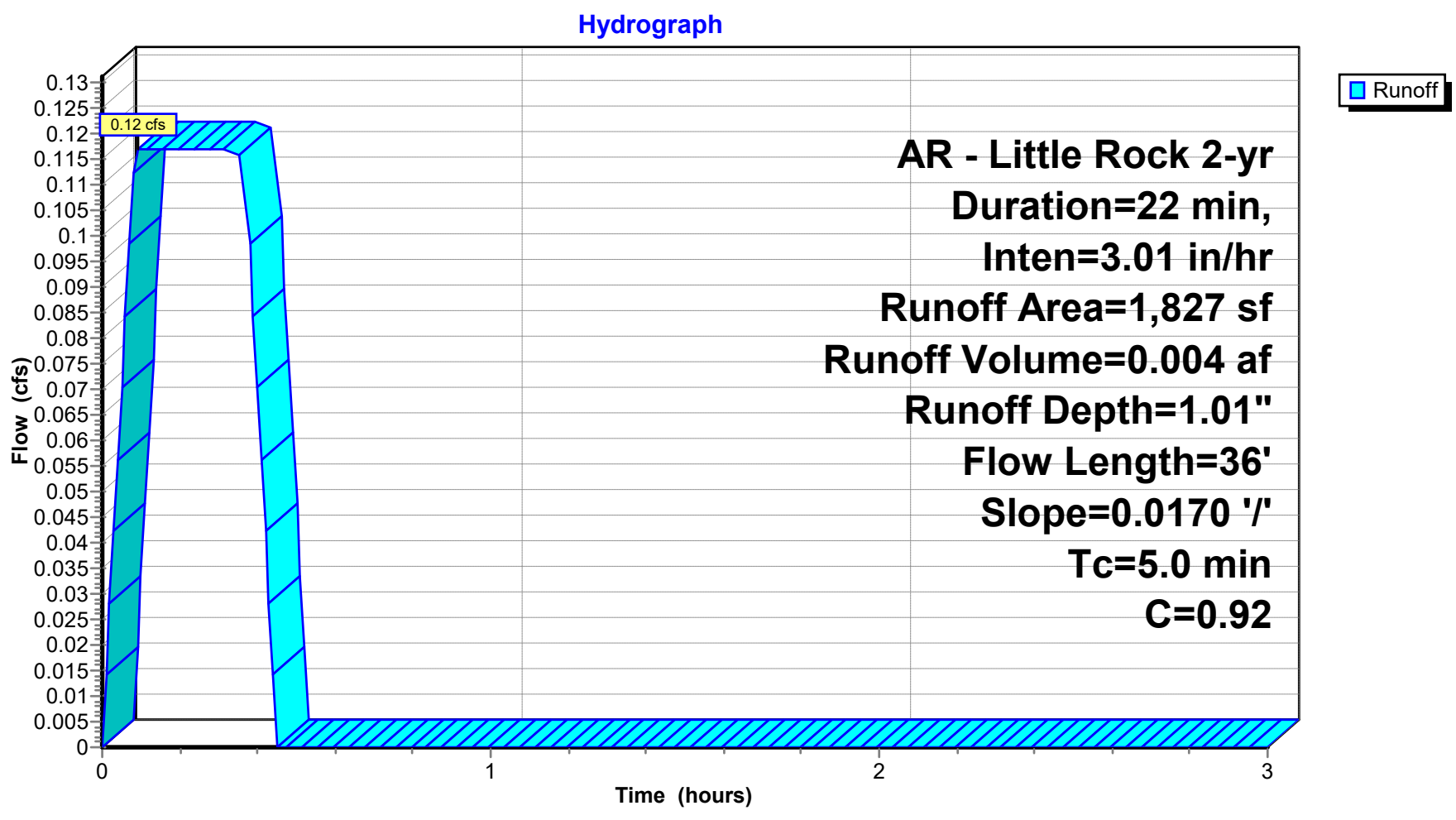
Runoff = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.01"
Routed to Pond AI-B1 : AREA INLET B1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6



Summary for Subcatchment DB-B7: Drainage Basin B7

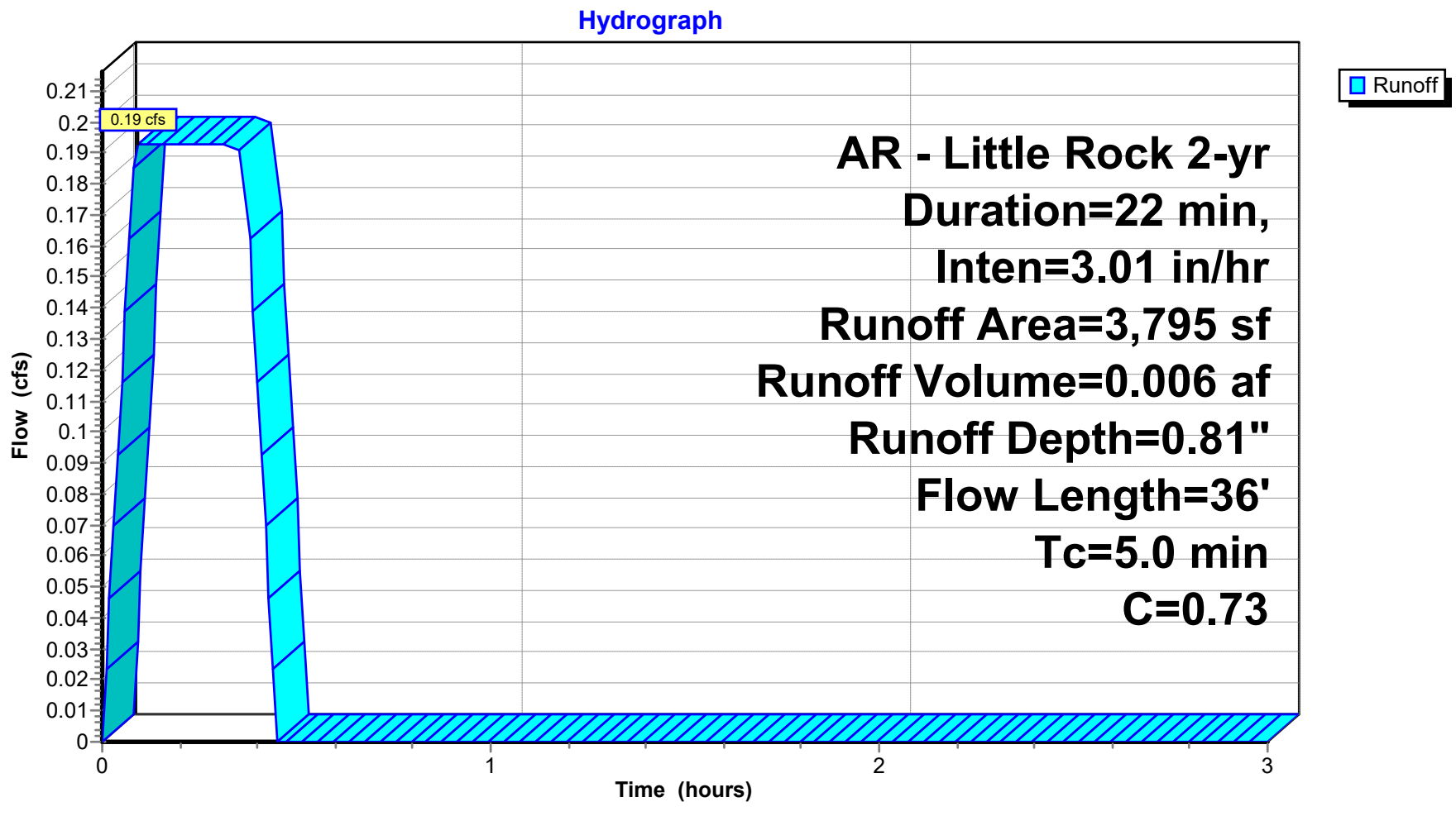
Runoff = 0.19 cfs @ 0.09 hrs, Volume= 0.006 af, Depth= 0.81"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



Summary for Subcatchment DB-B8: Drainage Basin B8

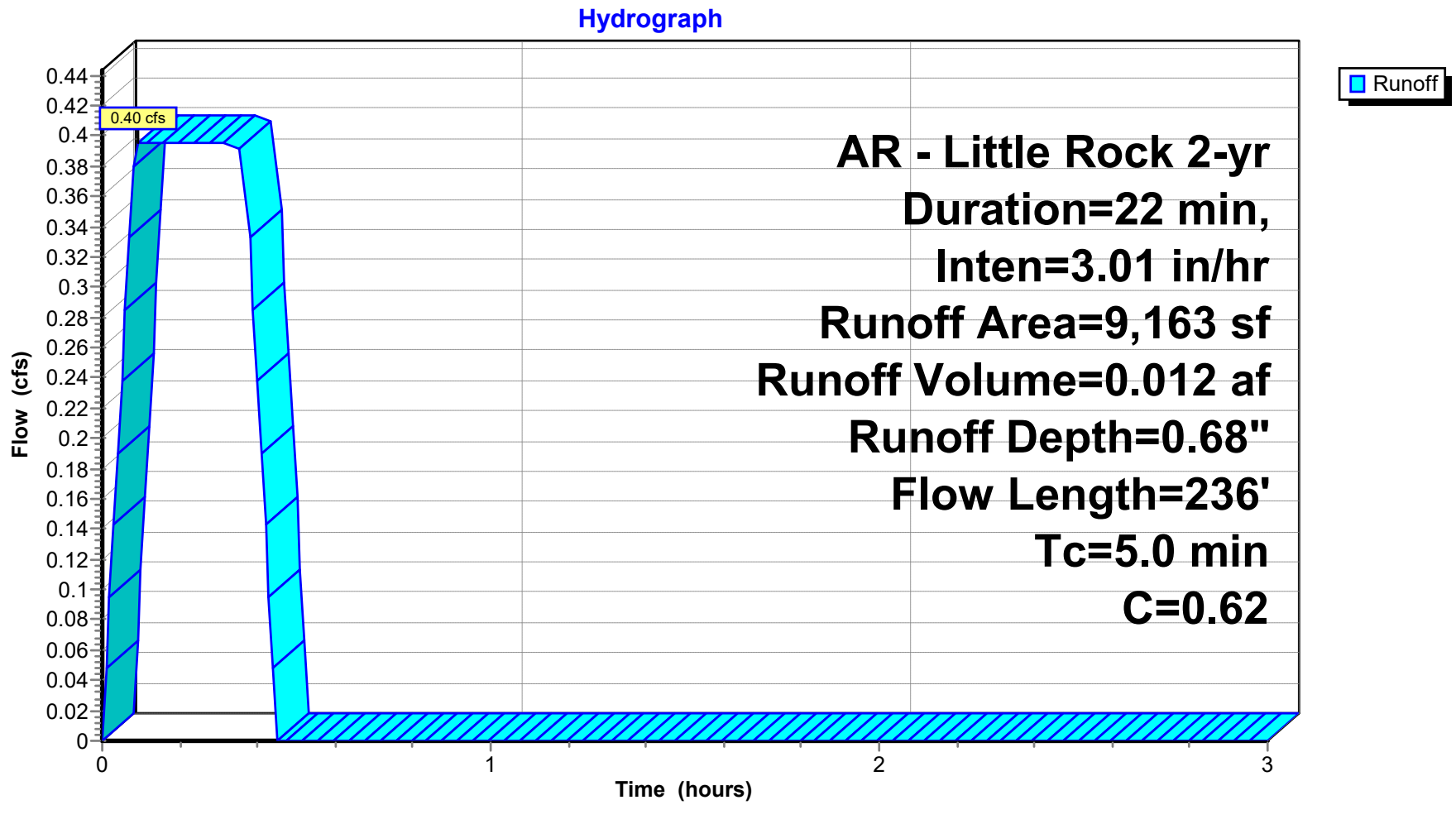
Runoff = 0.40 cfs @ 0.09 hrs, Volume= 0.012 af, Depth= 0.68"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			

Subcatchment DB-B8: Drainage Basin B8



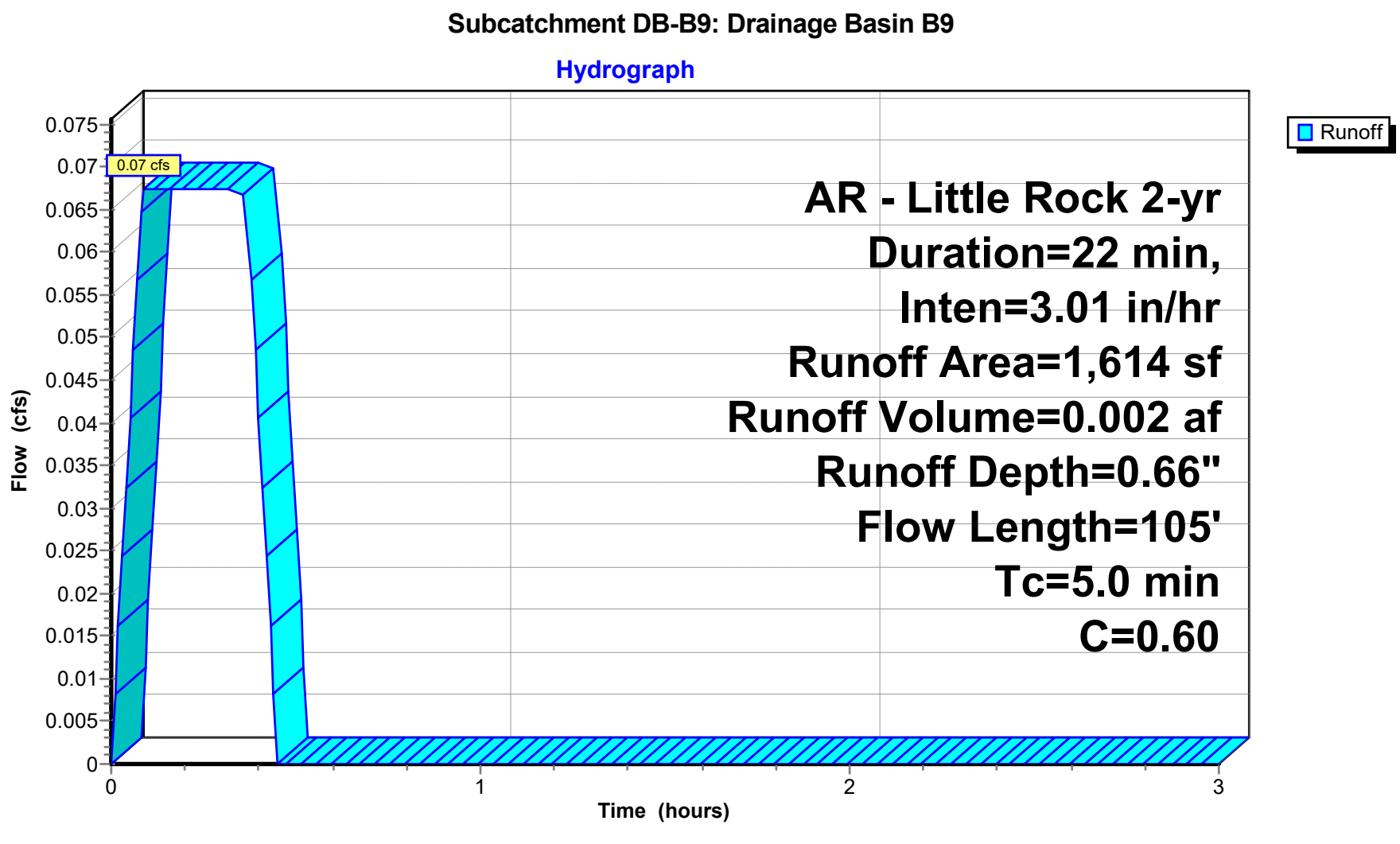
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.07 cfs @ 0.09 hrs, Volume= 0.002 af, Depth= 0.66"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 2-yr Duration=22 min, Inten=3.01 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.01" for 2-yr event
Inflow = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af
Outflow = 0.12 cfs @ 0.10 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.6 min
Primary = 0.12 cfs @ 0.10 hrs, Volume= 0.004 af
Routed to Pond AI-B2 : AREA INLET B2

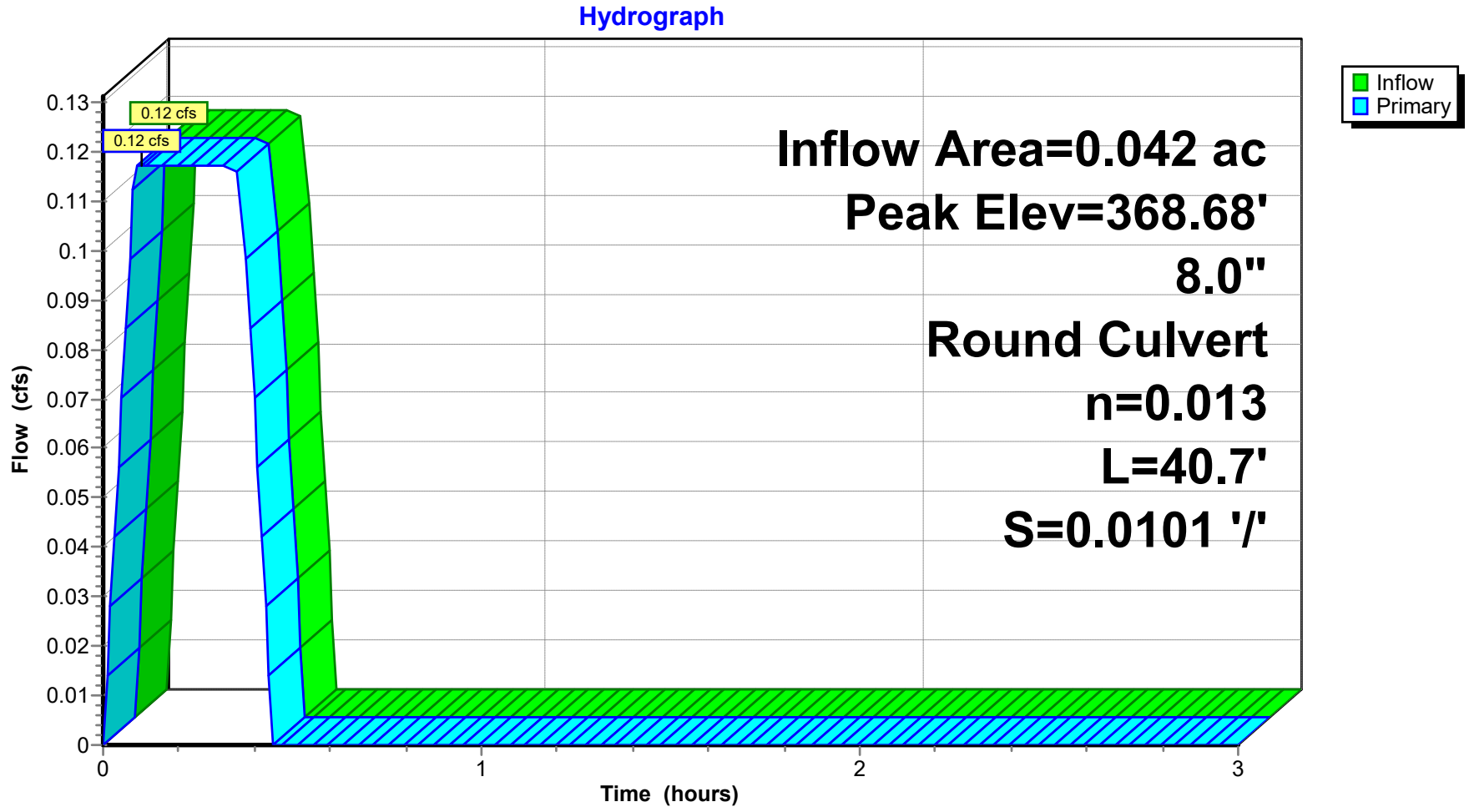
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.68' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.12 cfs @ 0.10 hrs HW=368.68' (Free Discharge)
└**1=HDPE 8"** (Barrel Controls 0.12 cfs @ 2.14 fps)

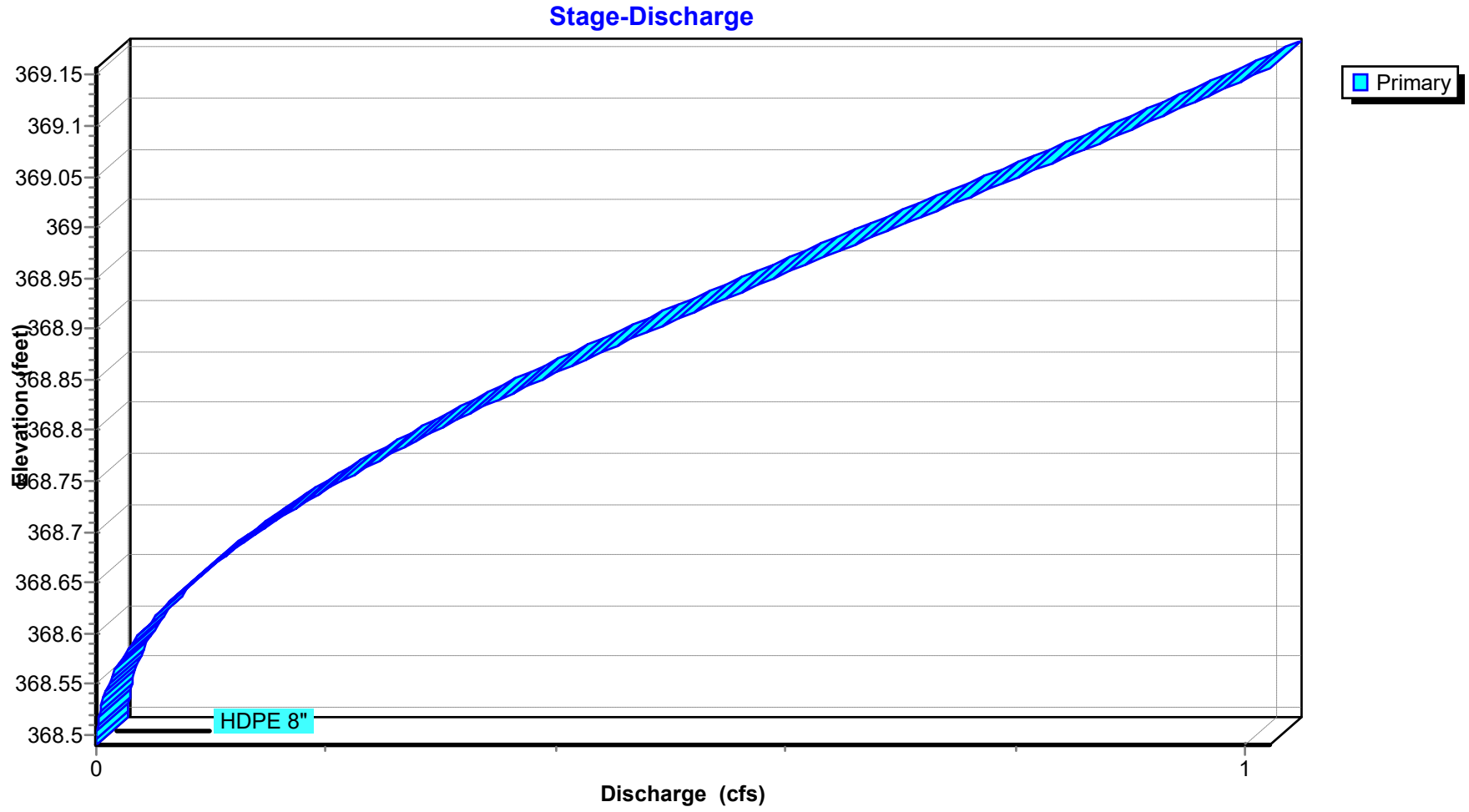
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 0.87" for 2-yr event
Inflow = 0.31 cfs @ 0.10 hrs, Volume= 0.009 af
Outflow = 0.31 cfs @ 0.09 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 0.09 hrs, Volume= 0.009 af
Routed to Pond CI-A2 : CURB INLET A2

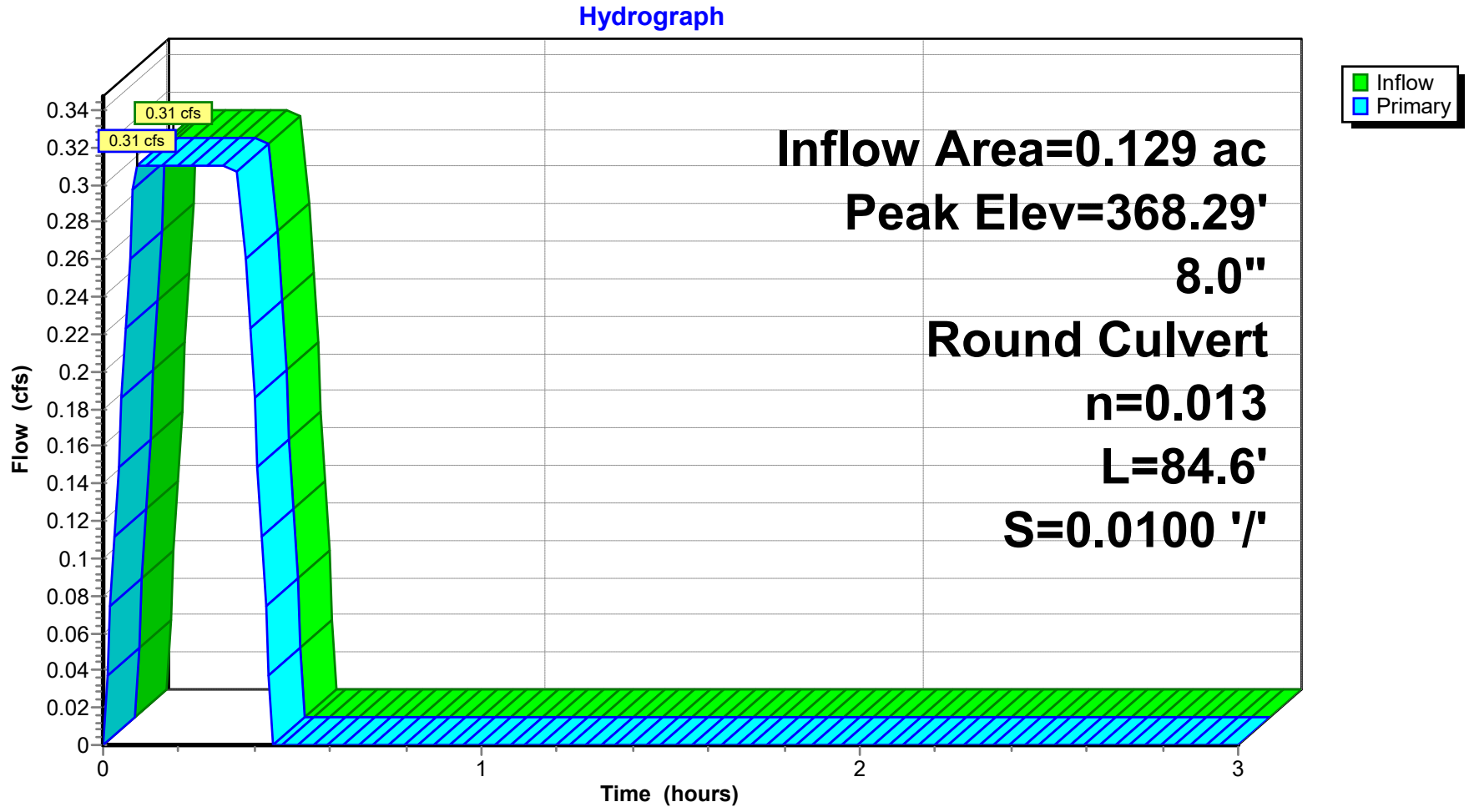
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.29' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.31 cfs @ 0.09 hrs HW=368.29' (Free Discharge)
└**1=HDPE** (Barrel Controls 0.31 cfs @ 2.83 fps)

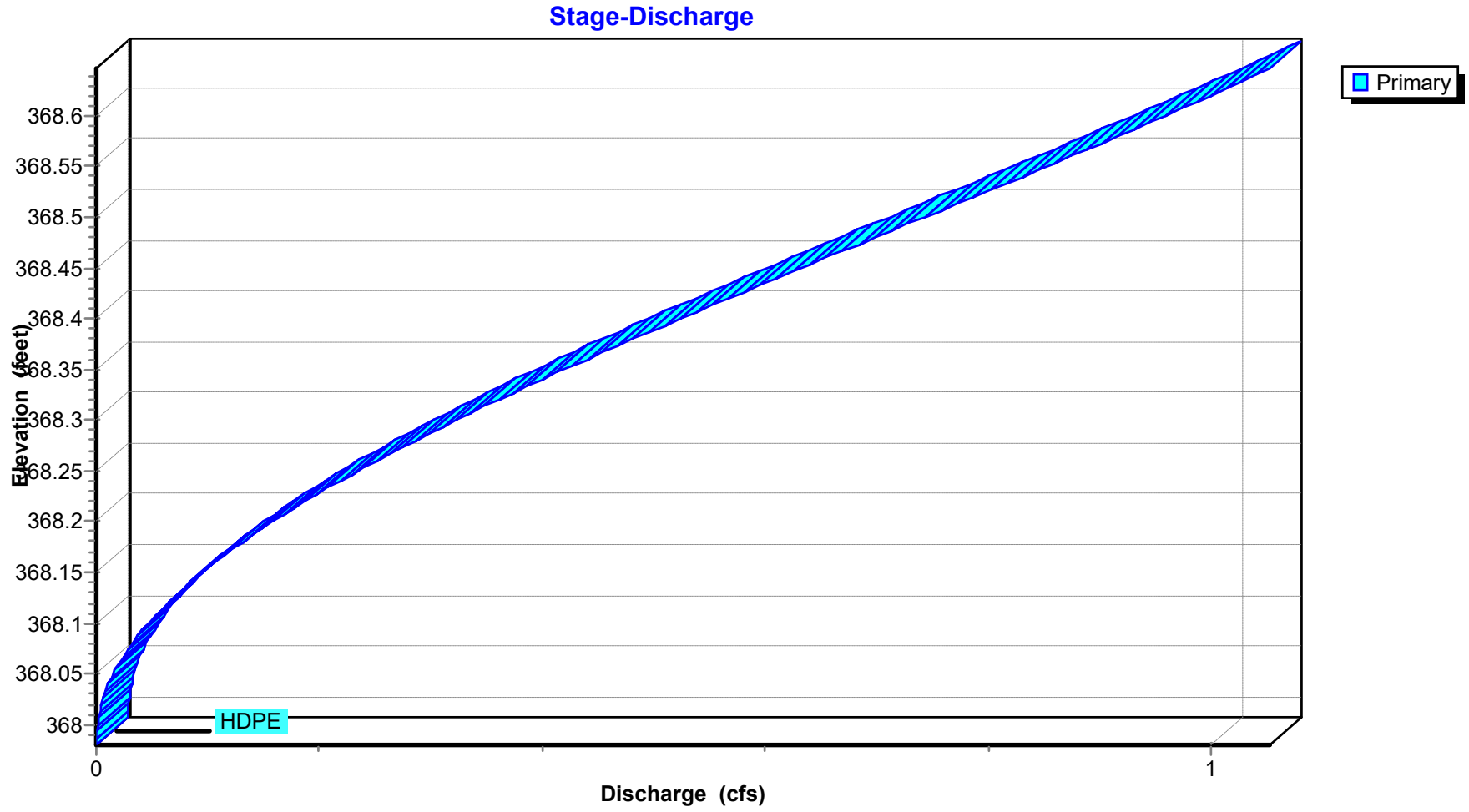
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
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368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 0.95" for 2-yr event
Inflow = 1.16 cfs @ 0.09 hrs, Volume= 0.035 af
Outflow = 1.16 cfs @ 0.10 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.6 min
Primary = 1.16 cfs @ 0.10 hrs, Volume= 0.035 af
Routed to Pond CI-A2 : CURB INLET A2

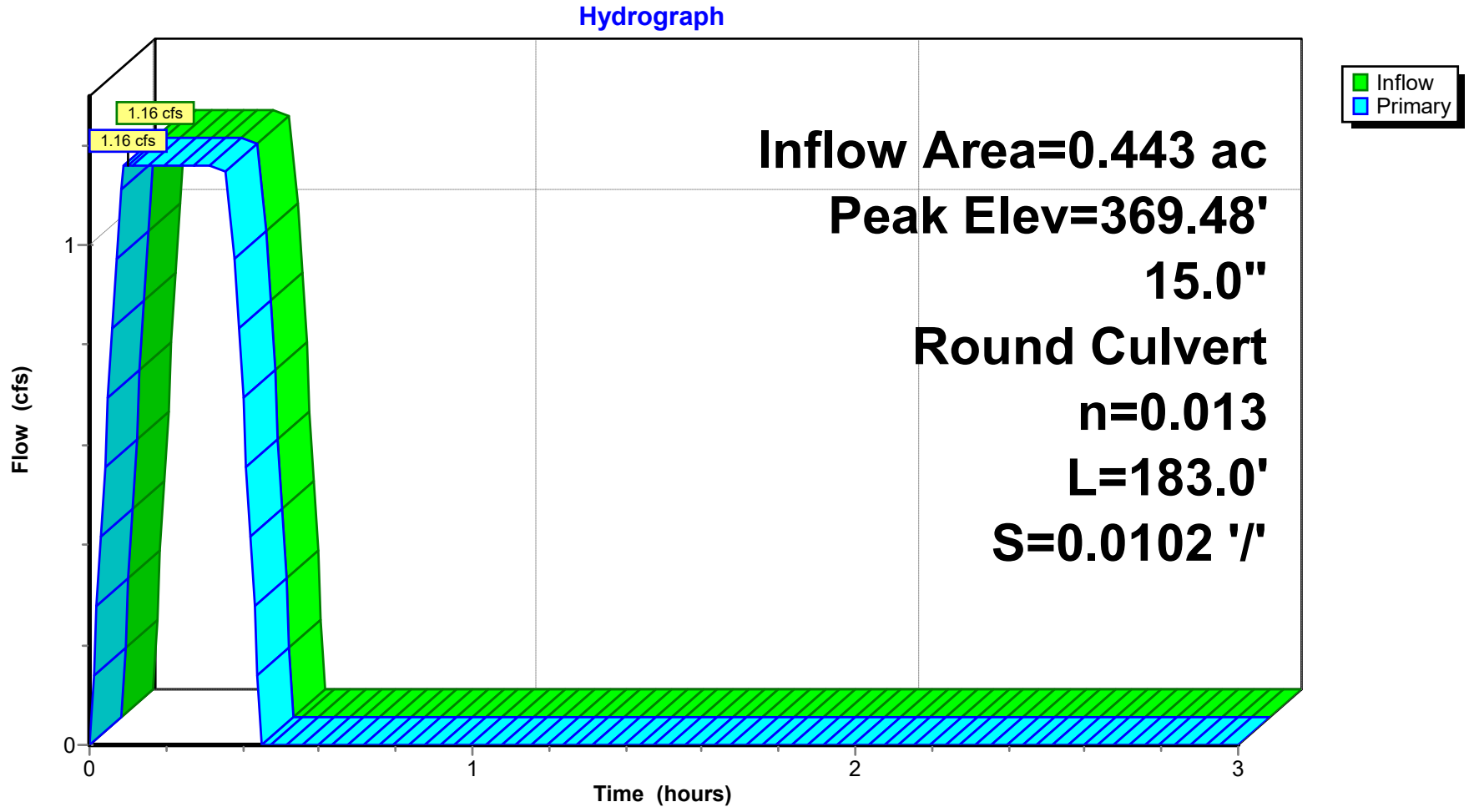
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.48' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.16 cfs @ 0.10 hrs HW=369.48' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.16 cfs @ 3.90 fps)

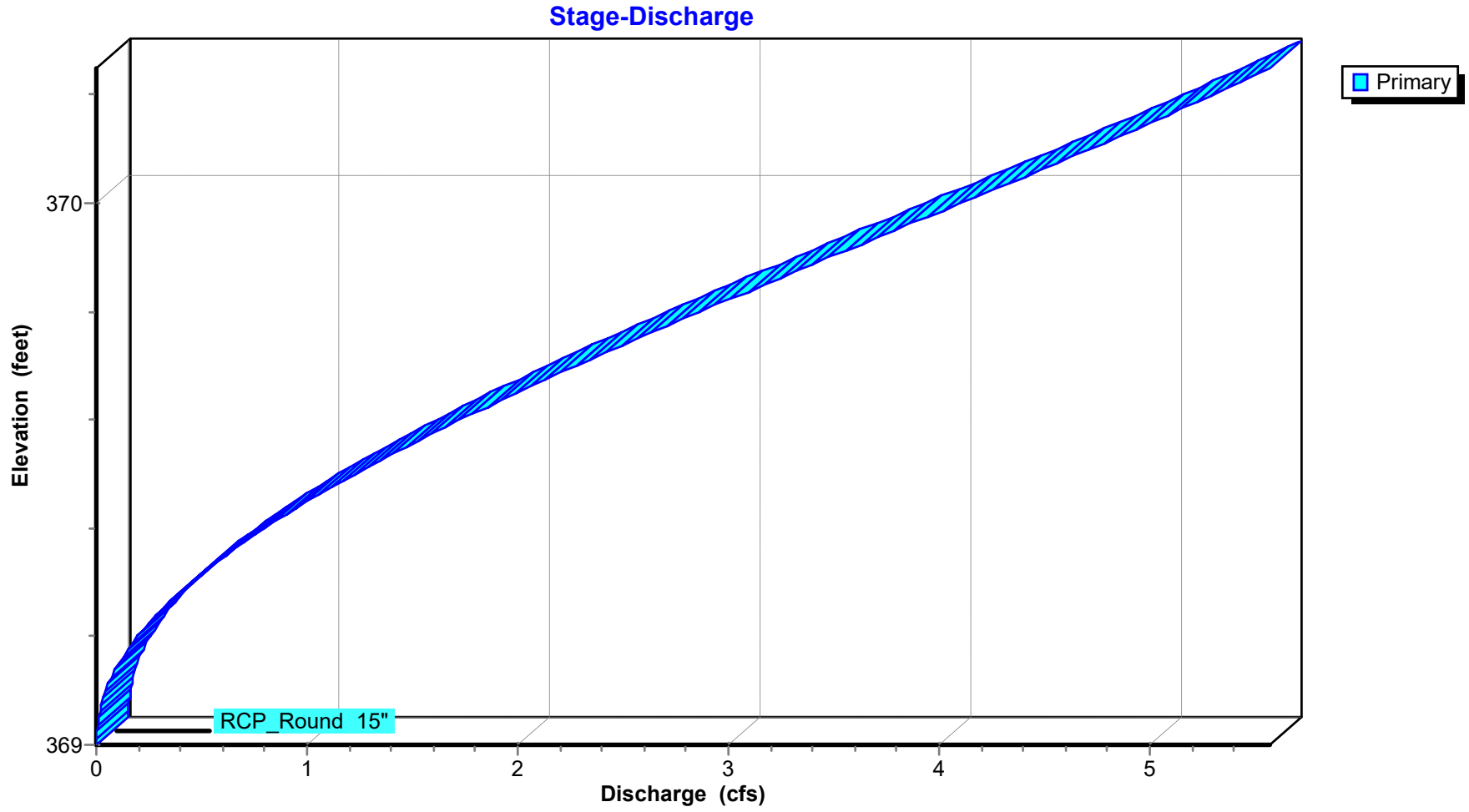
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 0.82" for 2-yr event
Inflow = 2.60 cfs @ 0.16 hrs, Volume= 0.079 af
Outflow = 2.60 cfs @ 0.15 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 2.60 cfs @ 0.15 hrs, Volume= 0.079 af
Routed to Pond CI-A3 : CURB INLET A3

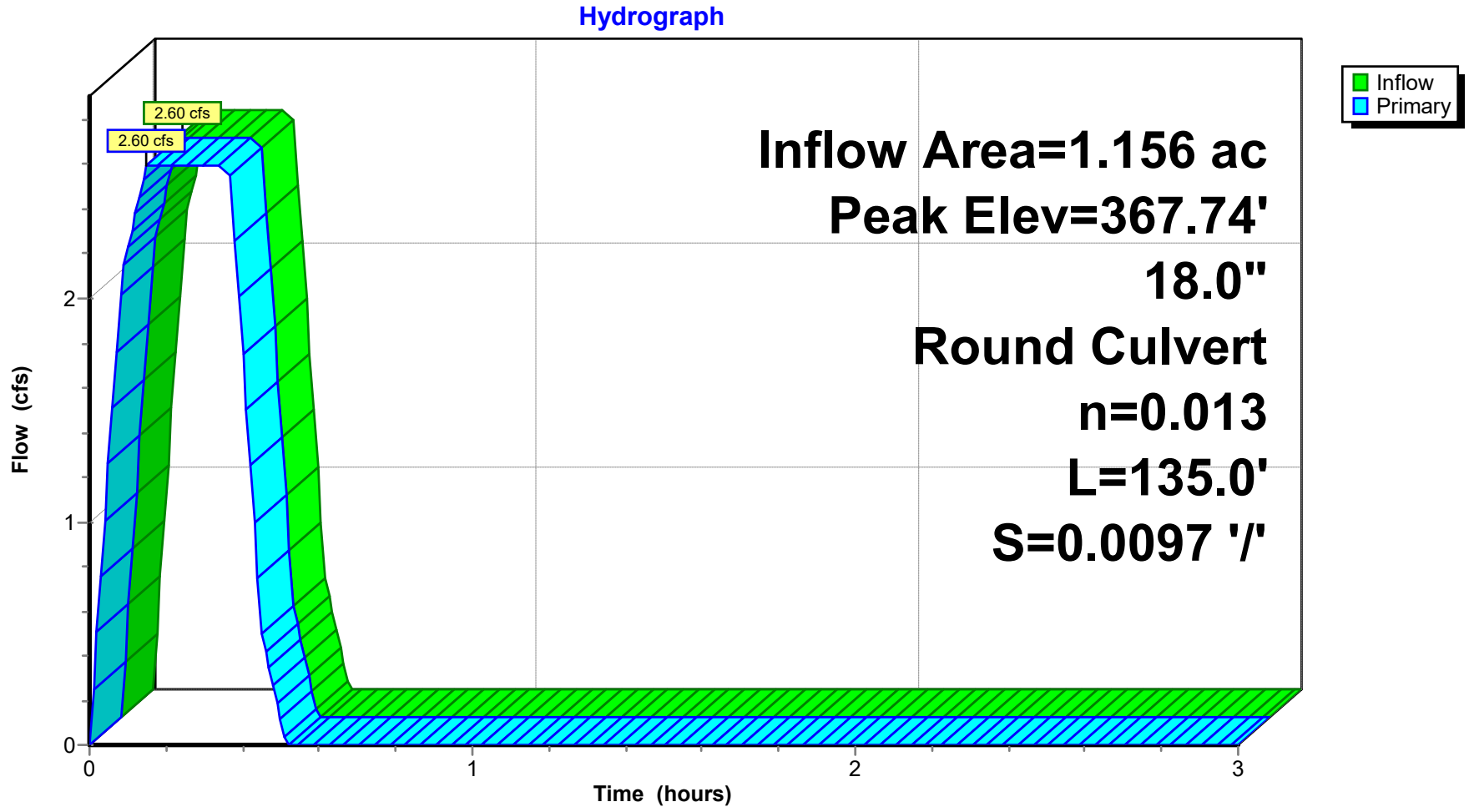
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.74' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=2.60 cfs @ 0.15 hrs HW=367.74' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 2.60 cfs @ 4.61 fps)

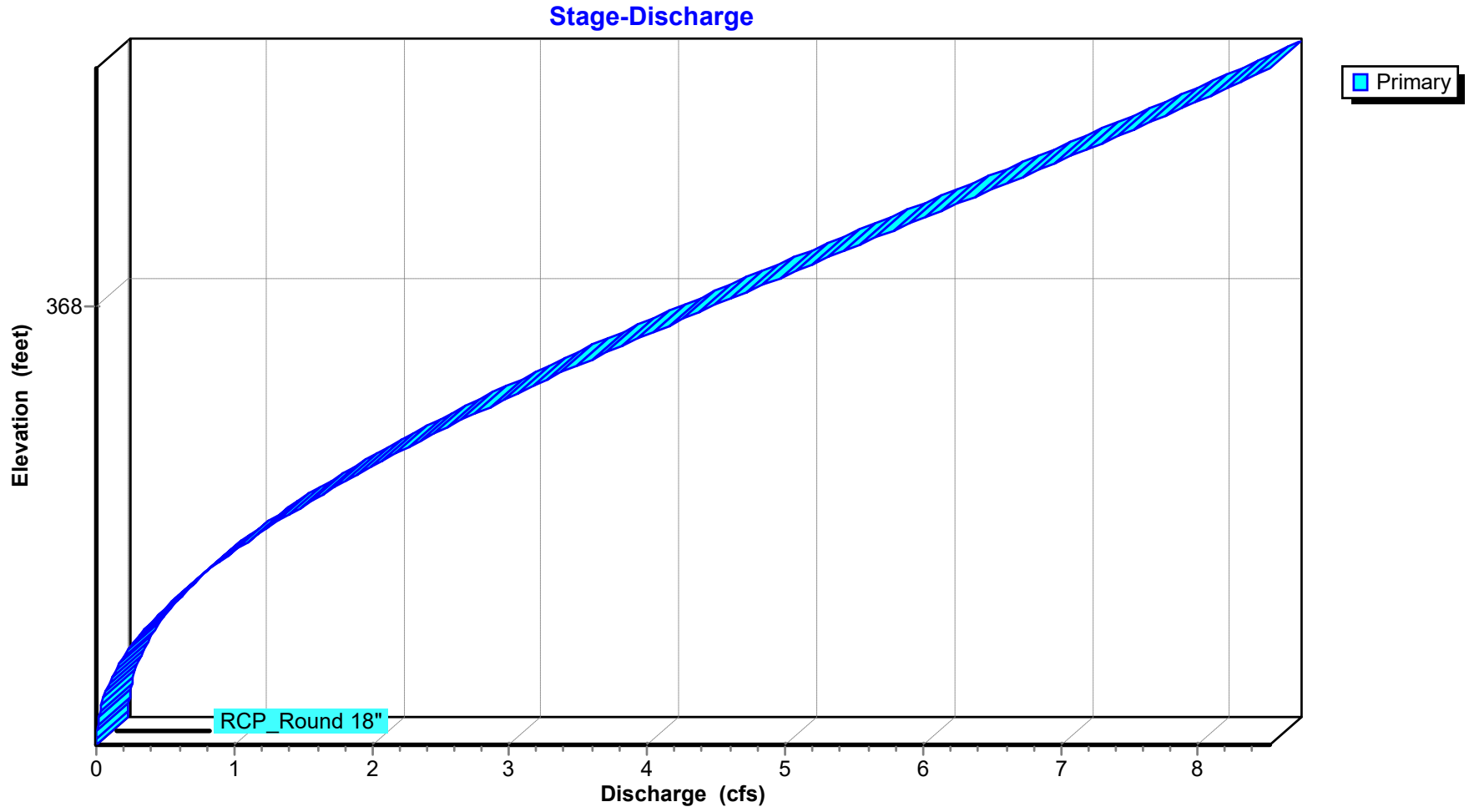
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 0.82" for 2-yr event
Inflow = 3.23 cfs @ 0.15 hrs, Volume= 0.098 af
Outflow = 3.23 cfs @ 0.16 hrs, Volume= 0.098 af, Atten= 0%, Lag= 0.6 min
Primary = 3.23 cfs @ 0.16 hrs, Volume= 0.098 af
Routed to Pond CI-A4 : CURB INLET A4

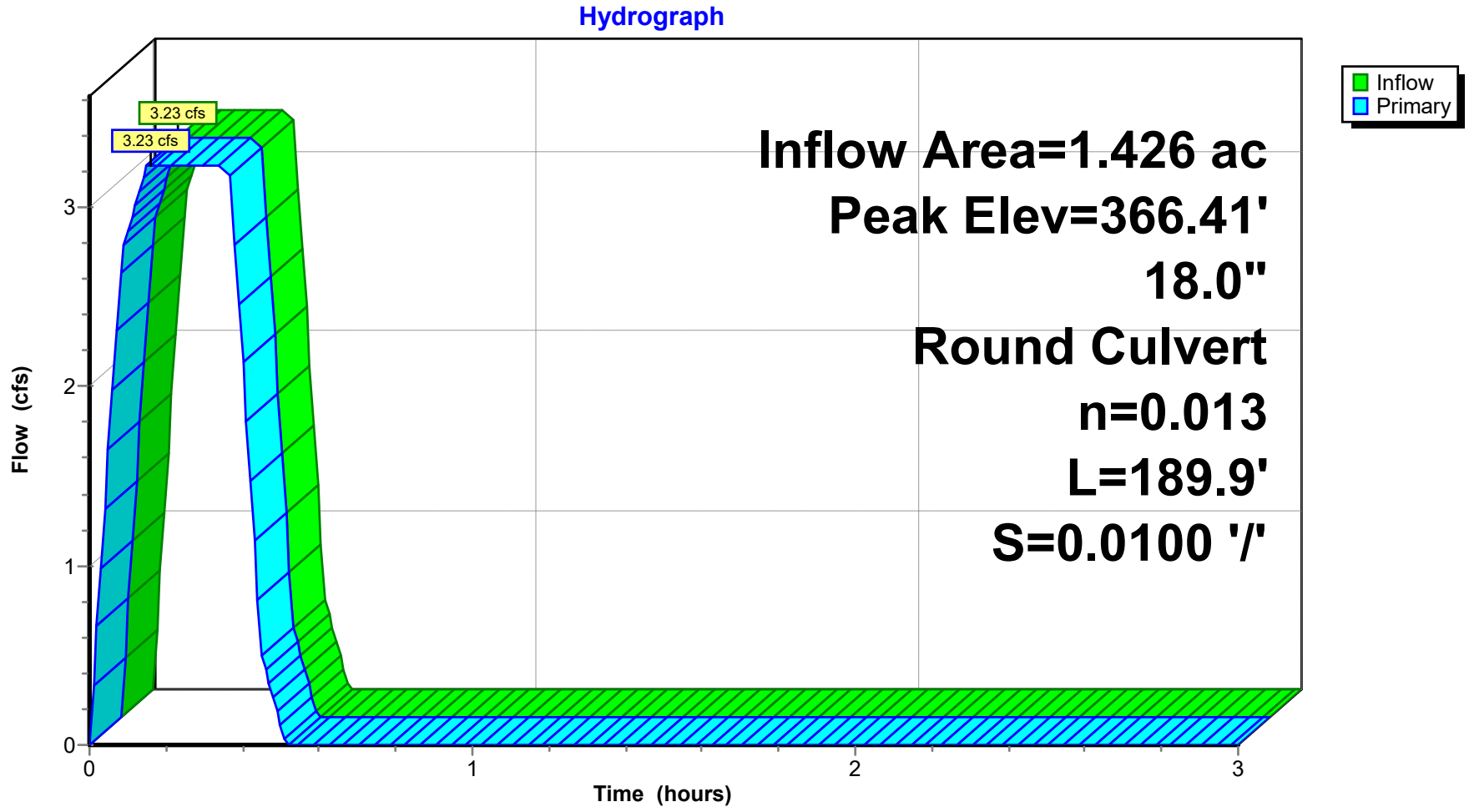
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.41' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.23 cfs @ 0.16 hrs HW=366.41' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 3.23 cfs @ 4.99 fps)

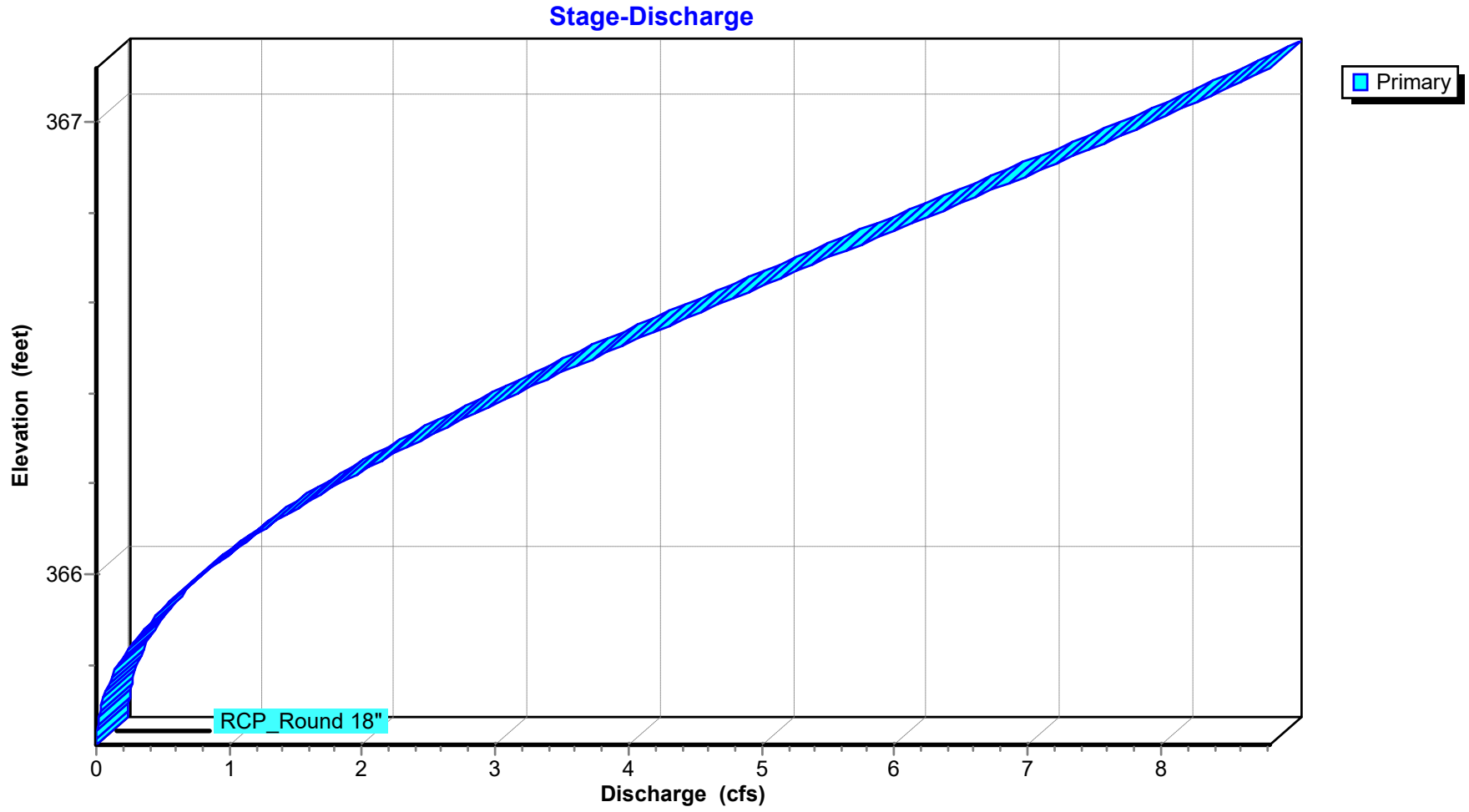
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 0.81" for 2-yr event
Inflow = 4.89 cfs @ 0.16 hrs, Volume= 0.148 af
Outflow = 4.89 cfs @ 0.18 hrs, Volume= 0.148 af, Atten= 0%, Lag= 1.2 min
Primary = 4.89 cfs @ 0.18 hrs, Volume= 0.148 af
Routed to Pond CI-A5 : CURB INLET A5

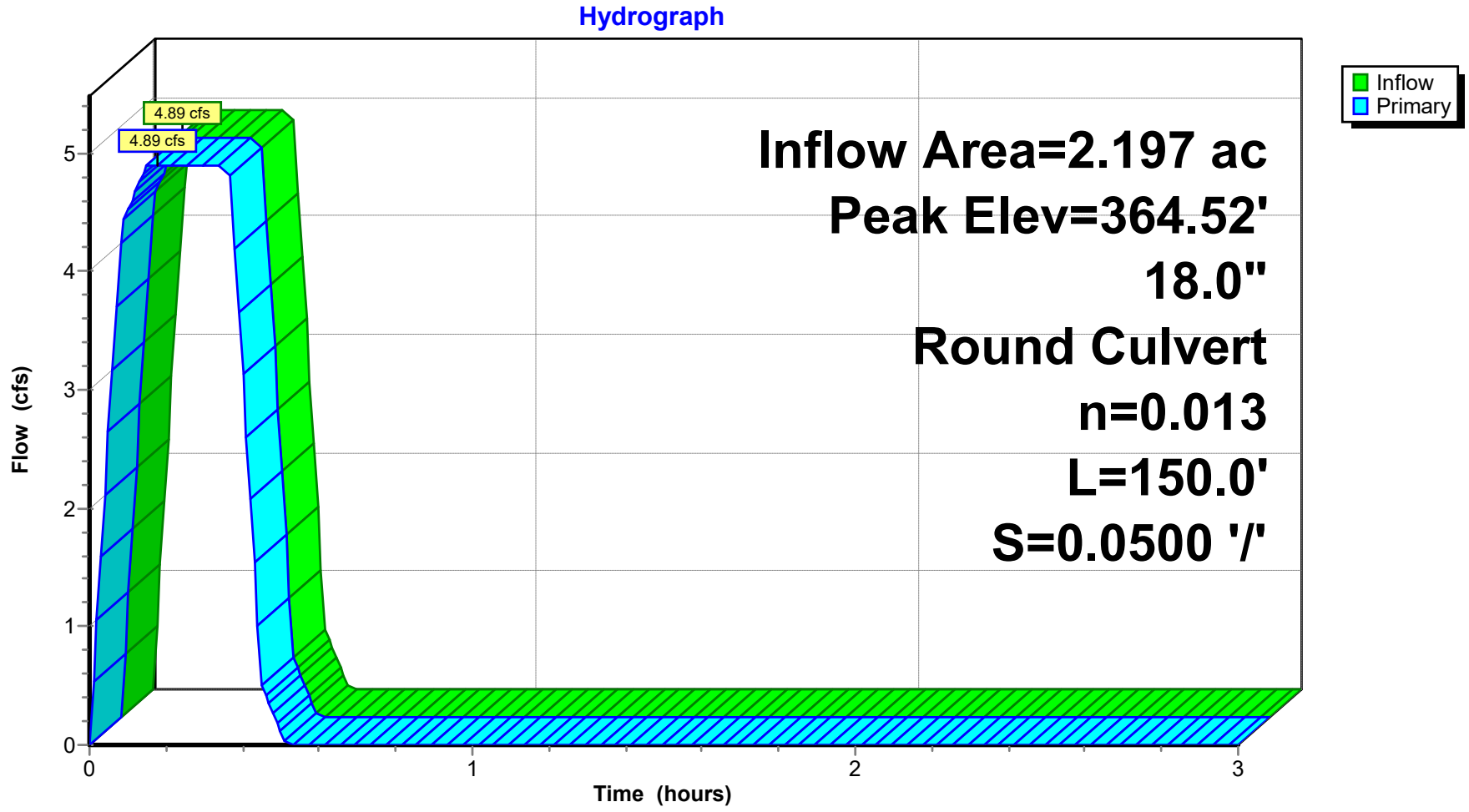
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.52' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.89 cfs @ 0.18 hrs HW=364.52' (Free Discharge)
└**1=RCP_Round 18"** (Inlet Controls 4.89 cfs @ 4.41 fps)

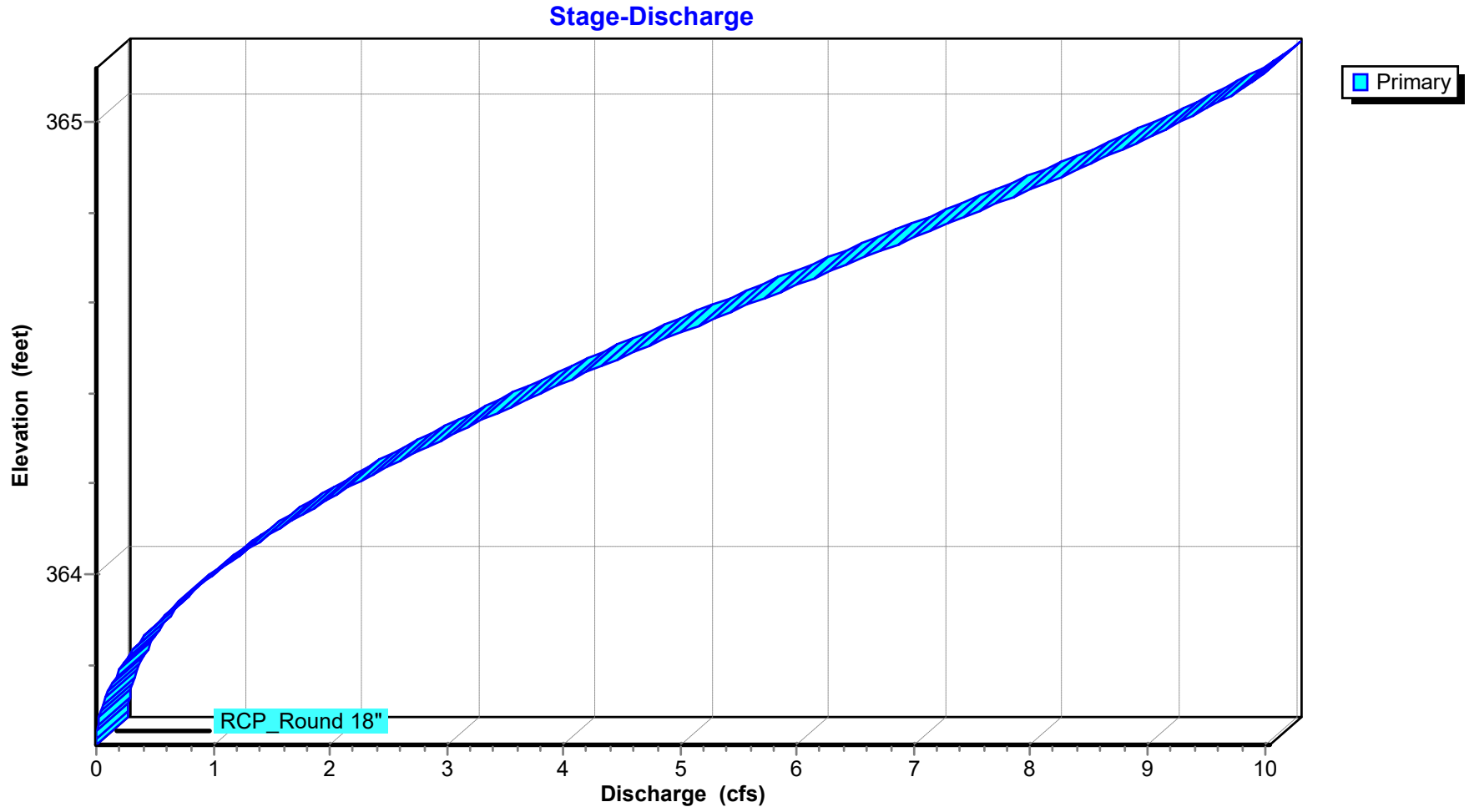
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 0.79" for 2-yr event
Inflow = 5.27 cfs @ 0.18 hrs, Volume= 0.160 af
Outflow = 5.27 cfs @ 0.22 hrs, Volume= 0.160 af, Atten= 0%, Lag= 2.4 min
Primary = 5.27 cfs @ 0.22 hrs, Volume= 0.160 af
Routed to Link POST-DEV : Post-Development

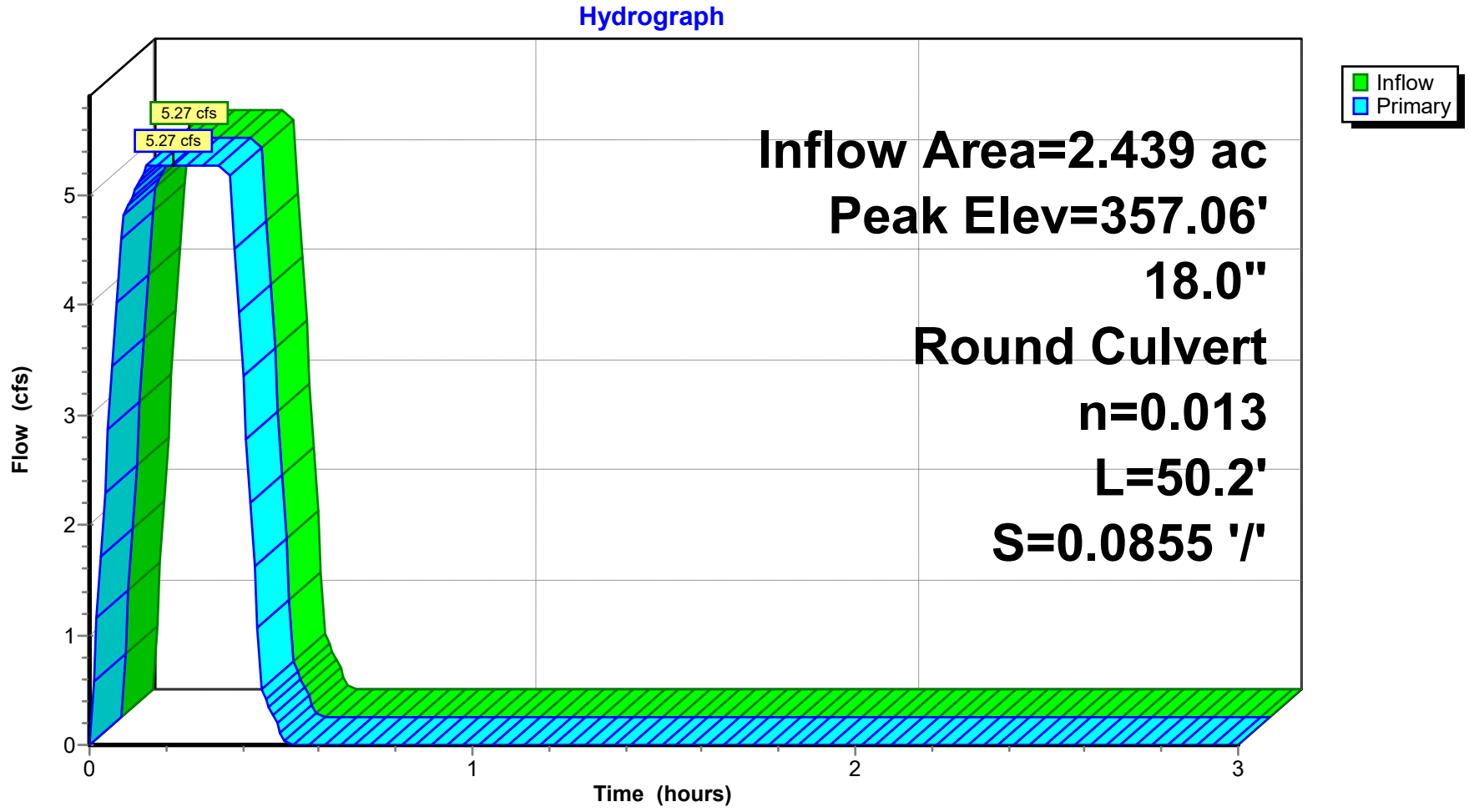
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.06' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.27 cfs @ 0.22 hrs HW=357.06' (Free Discharge)
└─**1=RCP_Round 18** (Inlet Controls 5.27 cfs @ 4.51 fps)

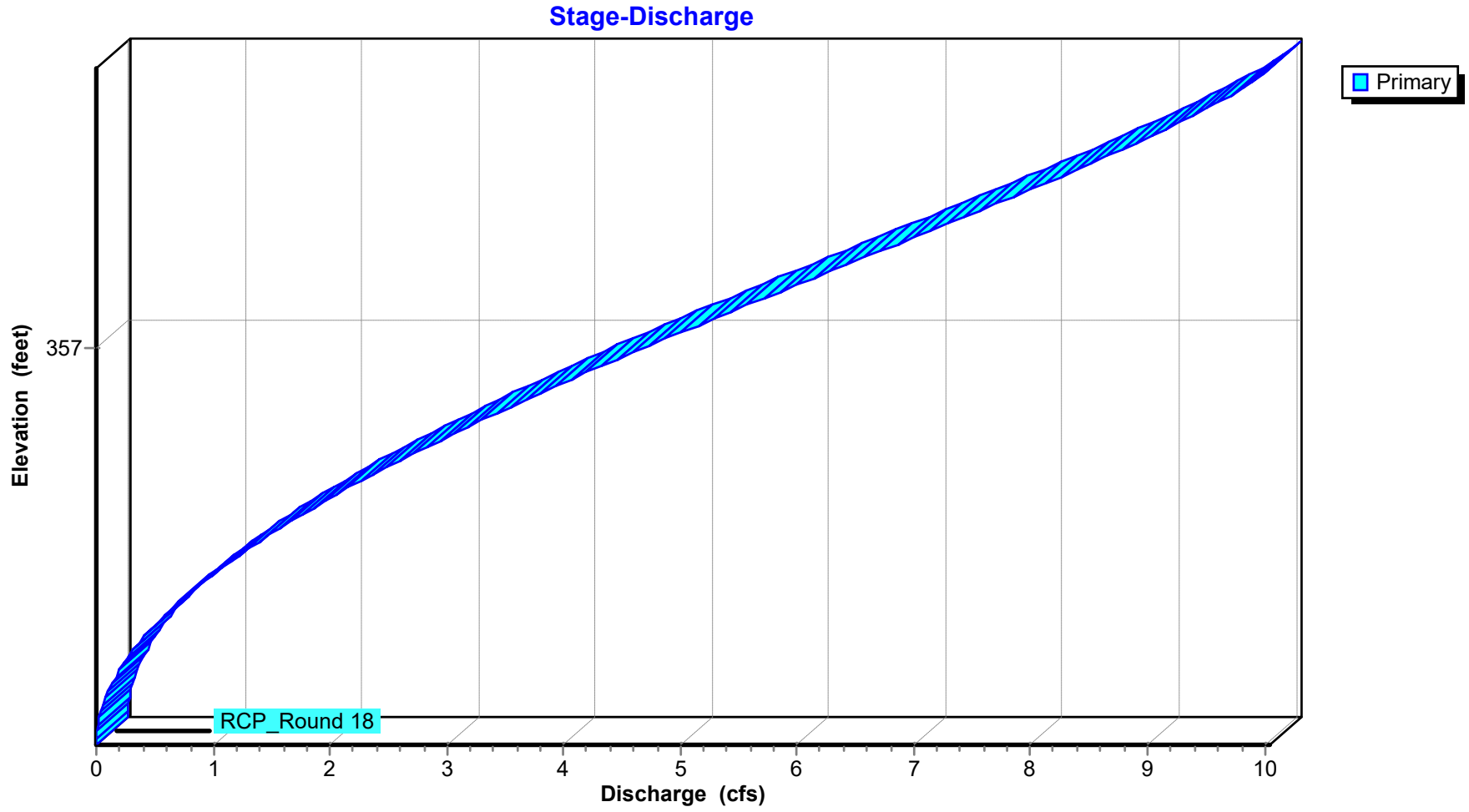
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.40 cfs @ 0.09 hrs, Volume= 0.012 af
Outflow = 0.40 cfs @ 0.10 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.6 min
Primary = 0.40 cfs @ 0.10 hrs, Volume= 0.012 af
Routed to Pond CI-C2 : CURB INLET C2

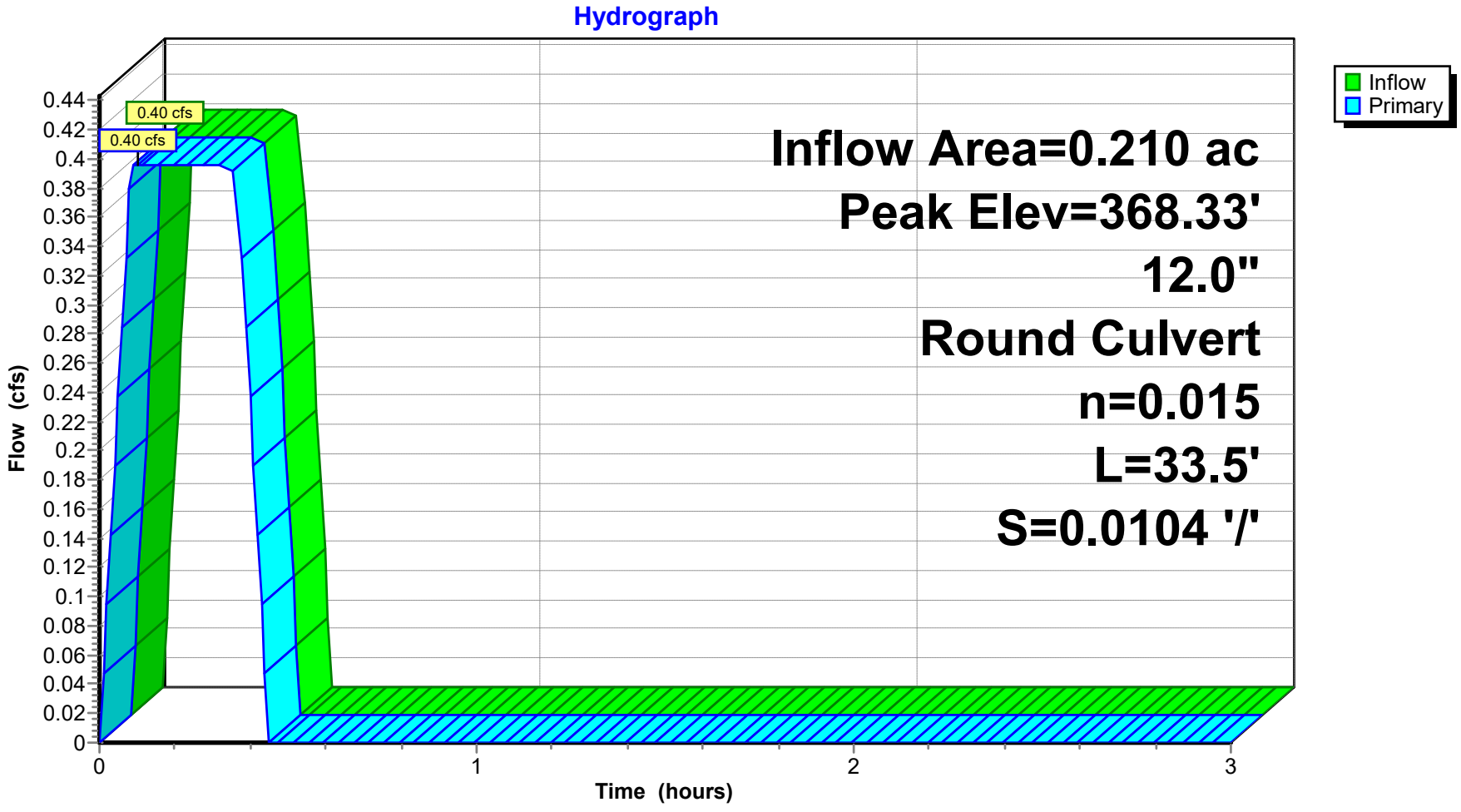
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.33' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.40 cfs @ 0.10 hrs HW=368.33' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.40 cfs @ 2.64 fps)

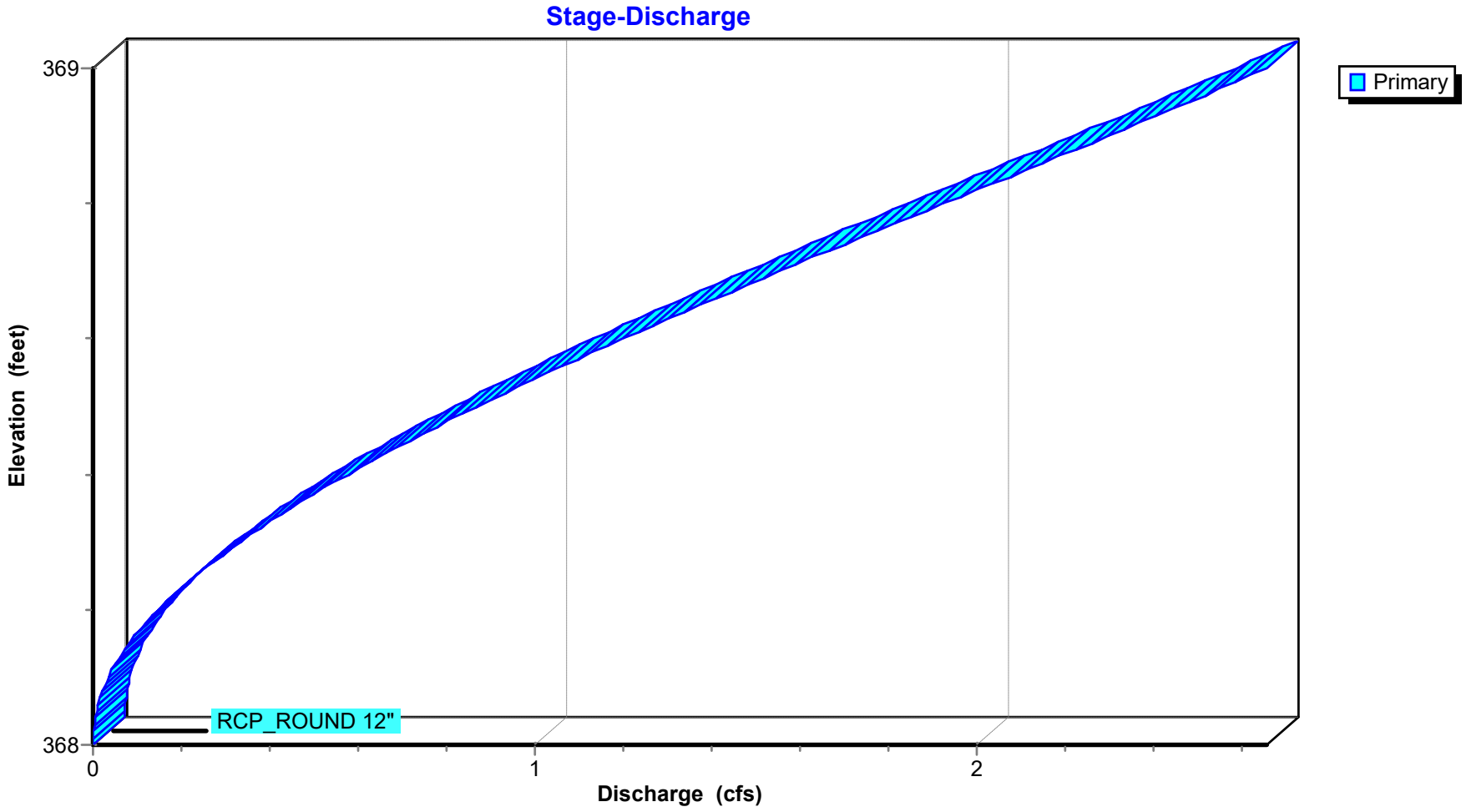
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Outflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond JB-C3 : JUNCTION BOX C3

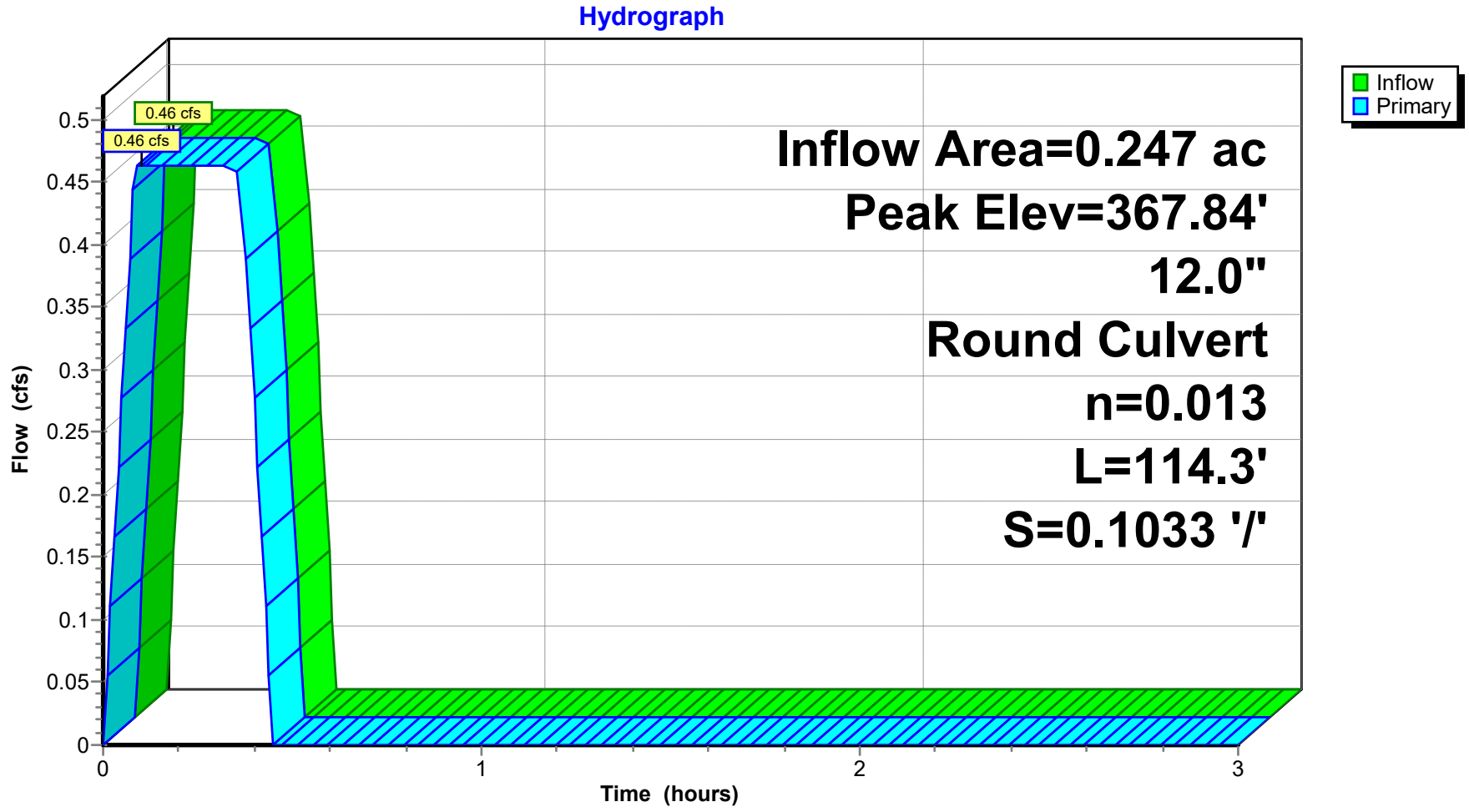
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.84' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 0.10 hrs HW=367.84' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 0.46 cfs @ 2.49 fps)

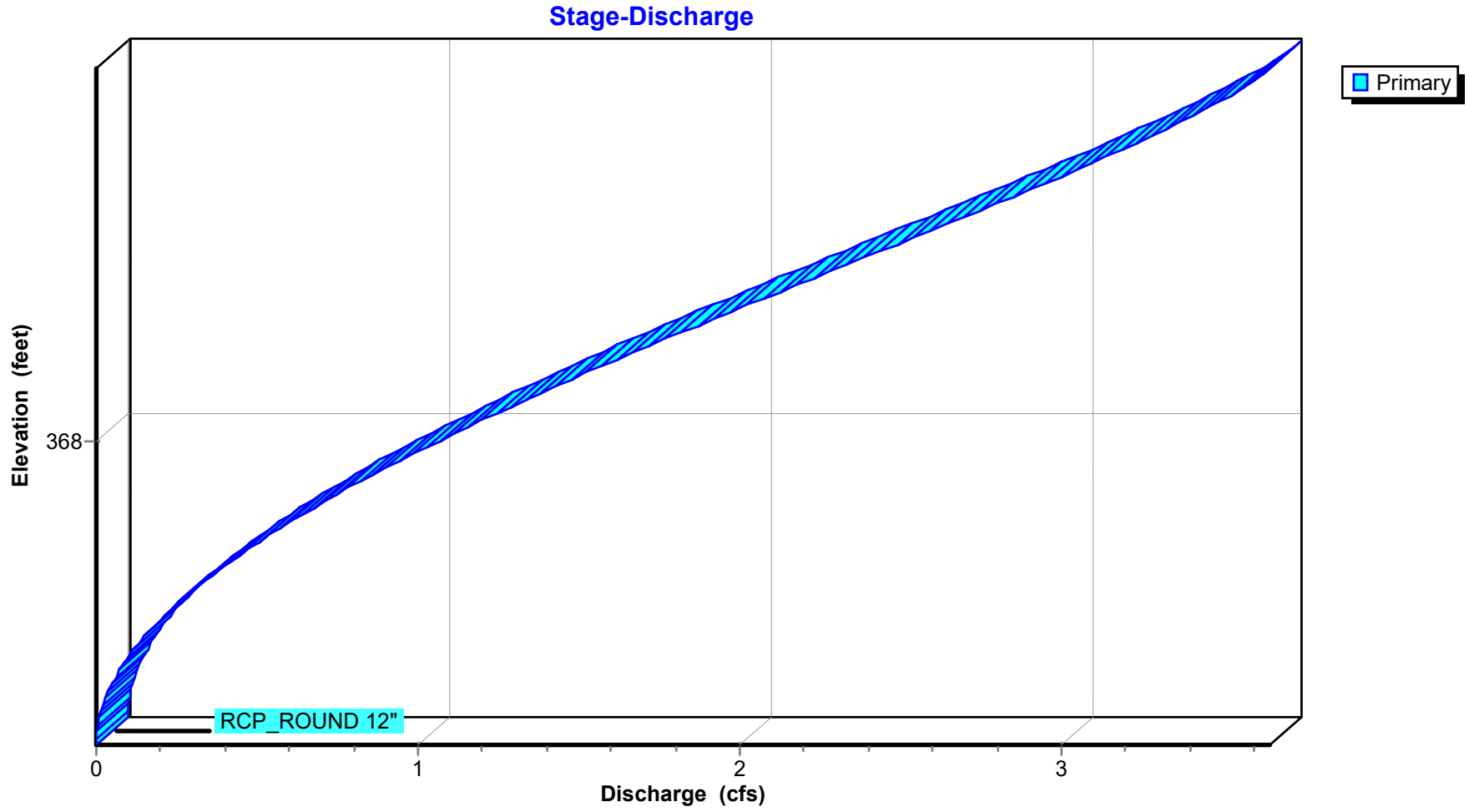
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.55	**0.000**	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000	368.54	0.000
367.63	0.000	368.55	0.000
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		
367.95	0.000		
367.96	0.000		
367.97	0.000		
367.98	0.000		
367.99	0.000		
368.00	0.000		
368.01	0.000		
368.02	0.000		
368.03	0.000		
368.04	0.000		
368.05	0.000		
368.06	0.000		
368.07	0.000		
368.08	0.000		
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af
Outflow = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 1.82 cfs @ 0.10 hrs, Volume= 0.055 af
Routed to Pond CI-C5 : CURB INLET C5

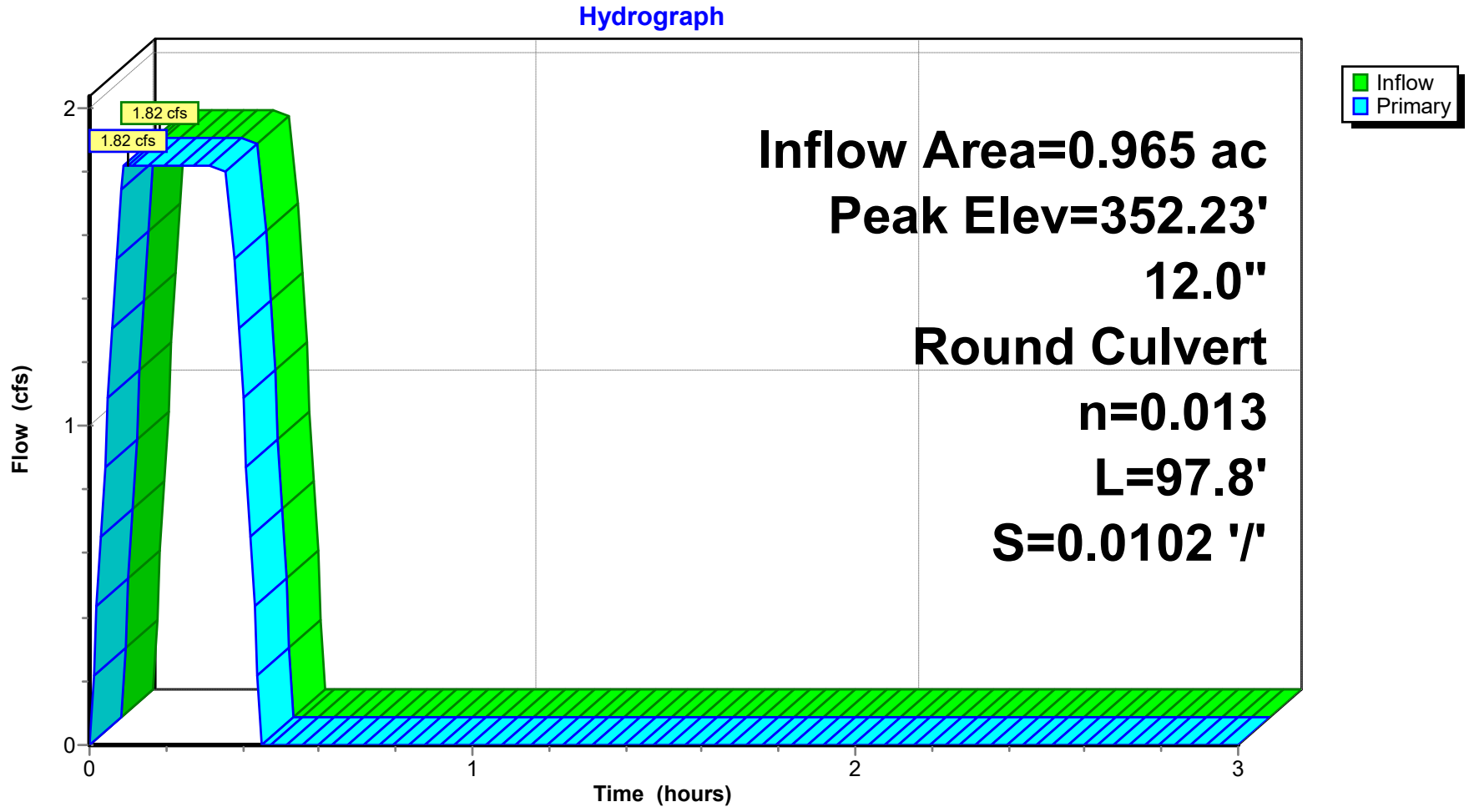
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.23' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.82 cfs @ 0.10 hrs HW=352.23' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 1.82 cfs @ 4.33 fps)

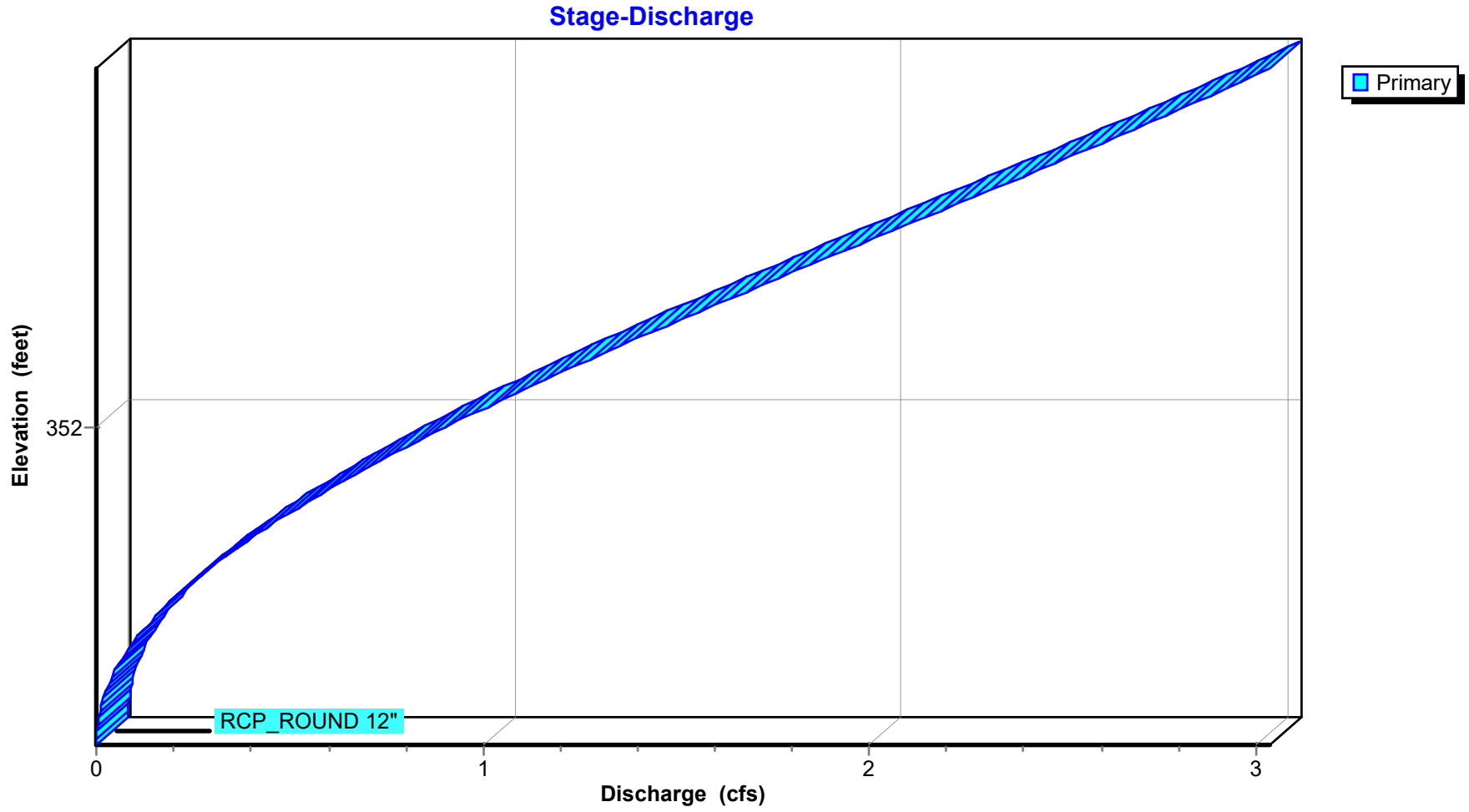
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000		
351.63	0.000		
351.64	0.000		
351.65	0.000		
351.66	0.000		
351.67	0.000		
351.68	0.000		
351.69	0.000		
351.70	0.000		
351.71	0.000		
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.67" for 2-yr event
Inflow = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af
Outflow = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 2.62 cfs @ 0.10 hrs, Volume= 0.079 af
Routed to Link POST-DEV : Post-Development

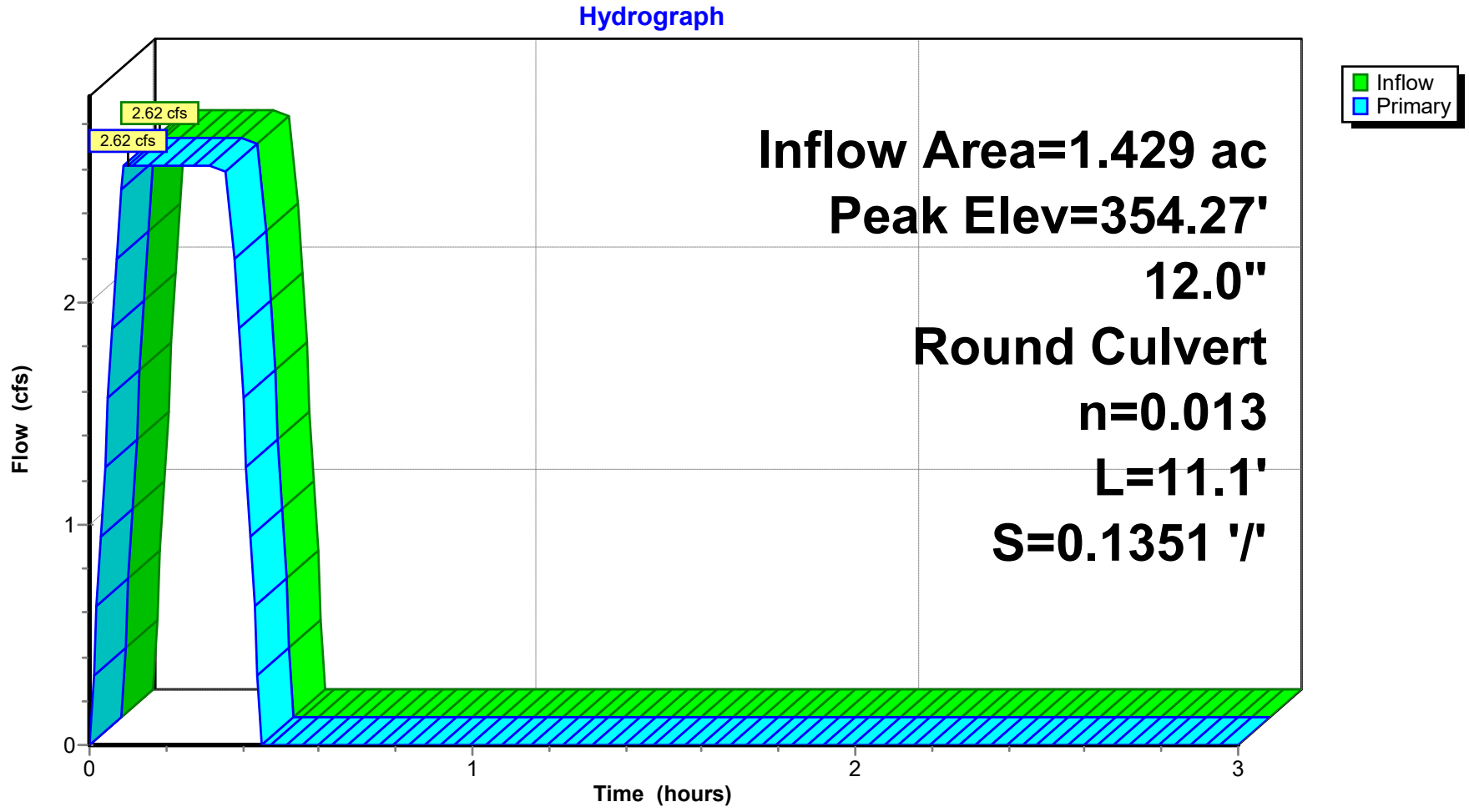
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.27' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.62 cfs @ 0.10 hrs HW=354.27' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 2.62 cfs @ 4.06 fps)

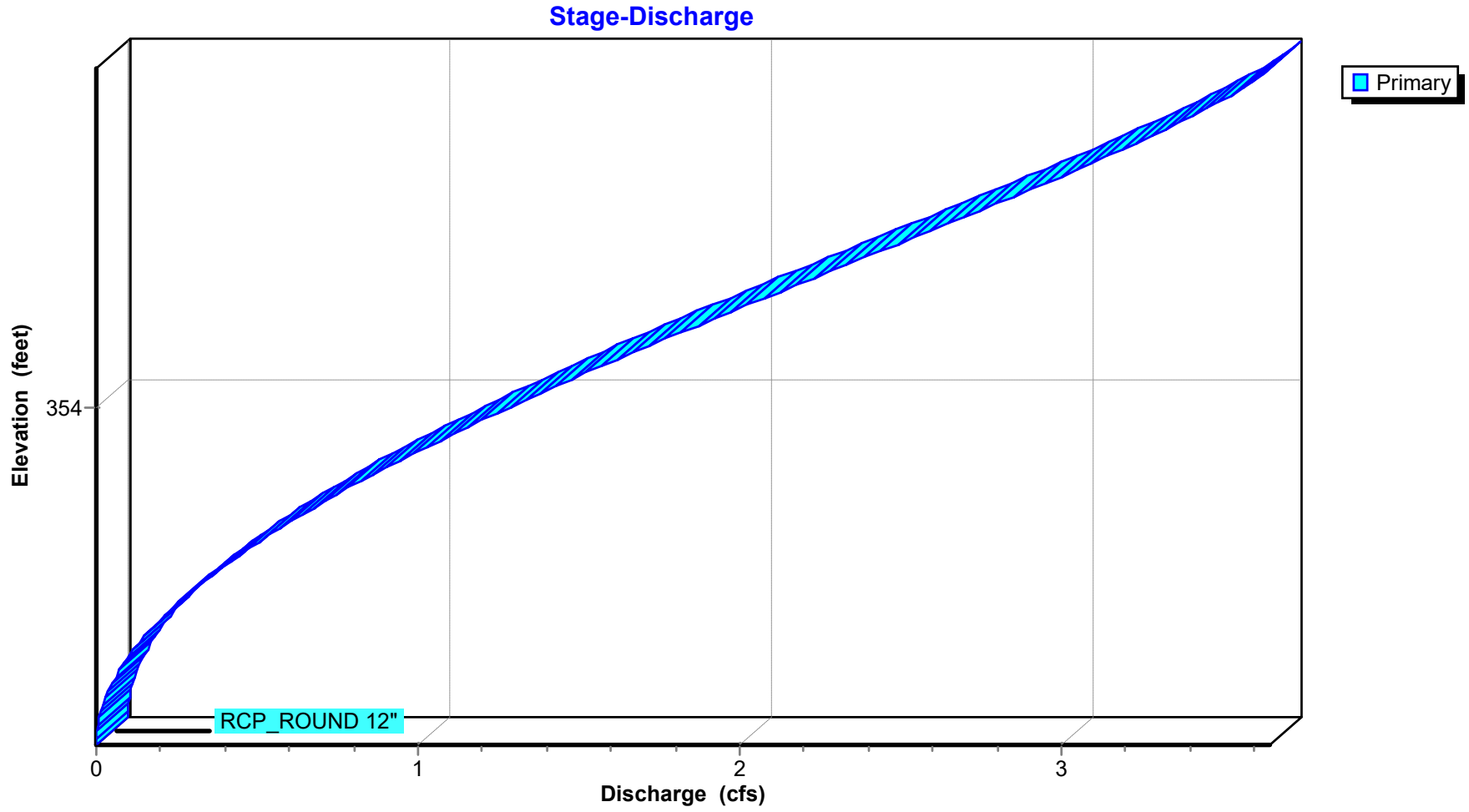
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000		
353.60	0.000		
353.61	0.000		
353.62	0.000		
353.63	0.000		
353.64	0.000		
353.65	0.000		
353.66	0.000		
353.67	0.000		
353.68	0.000		
353.69	0.000		
353.70	0.000		
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.66" for 2-yr event
Inflow = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af
Outflow = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 0.09 hrs, Volume= 0.035 af
Routed to Pond CI-C4 : CURB INLET C4

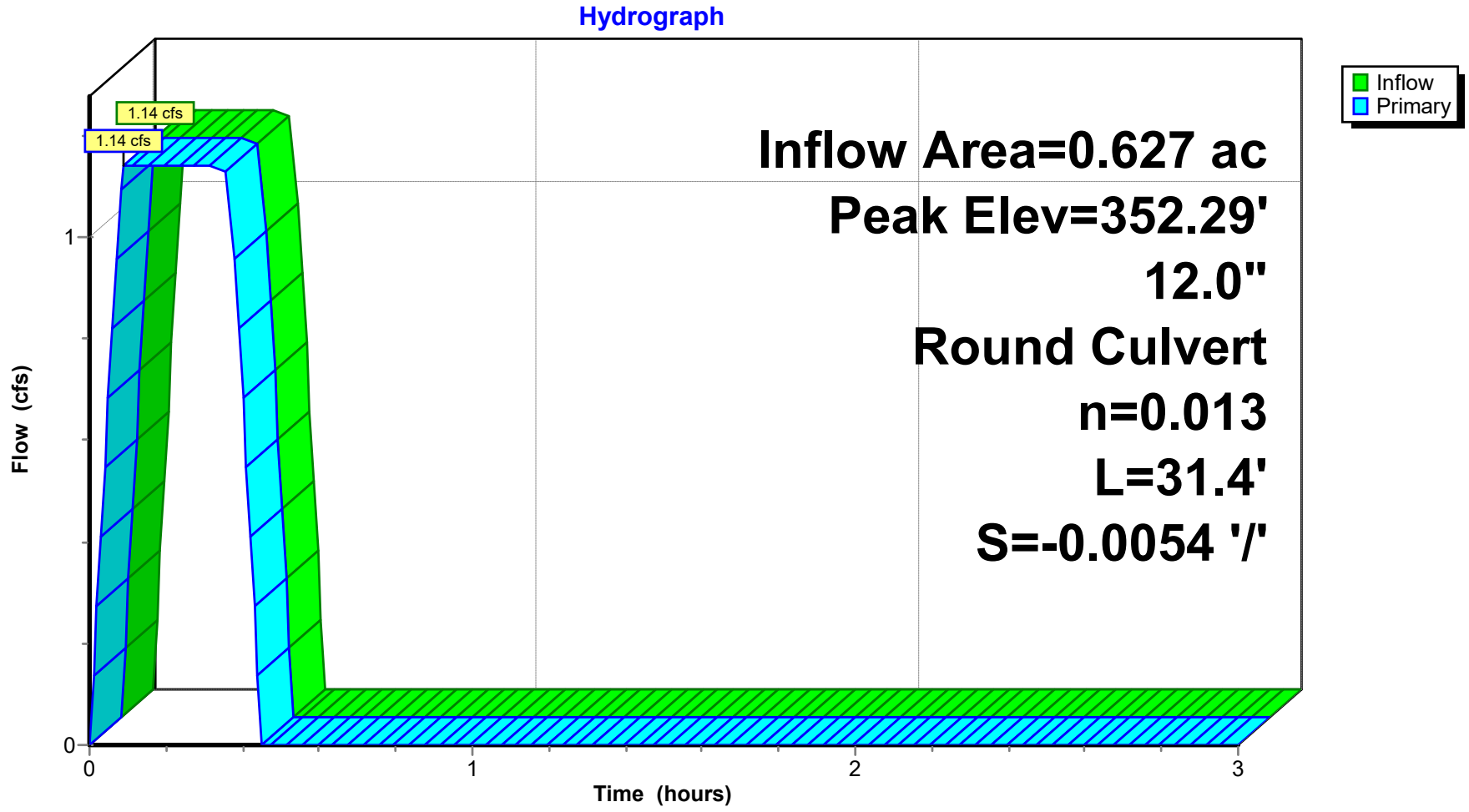
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.29' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.14 cfs @ 0.09 hrs HW=352.29' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 1.14 cfs @ 2.48 fps)

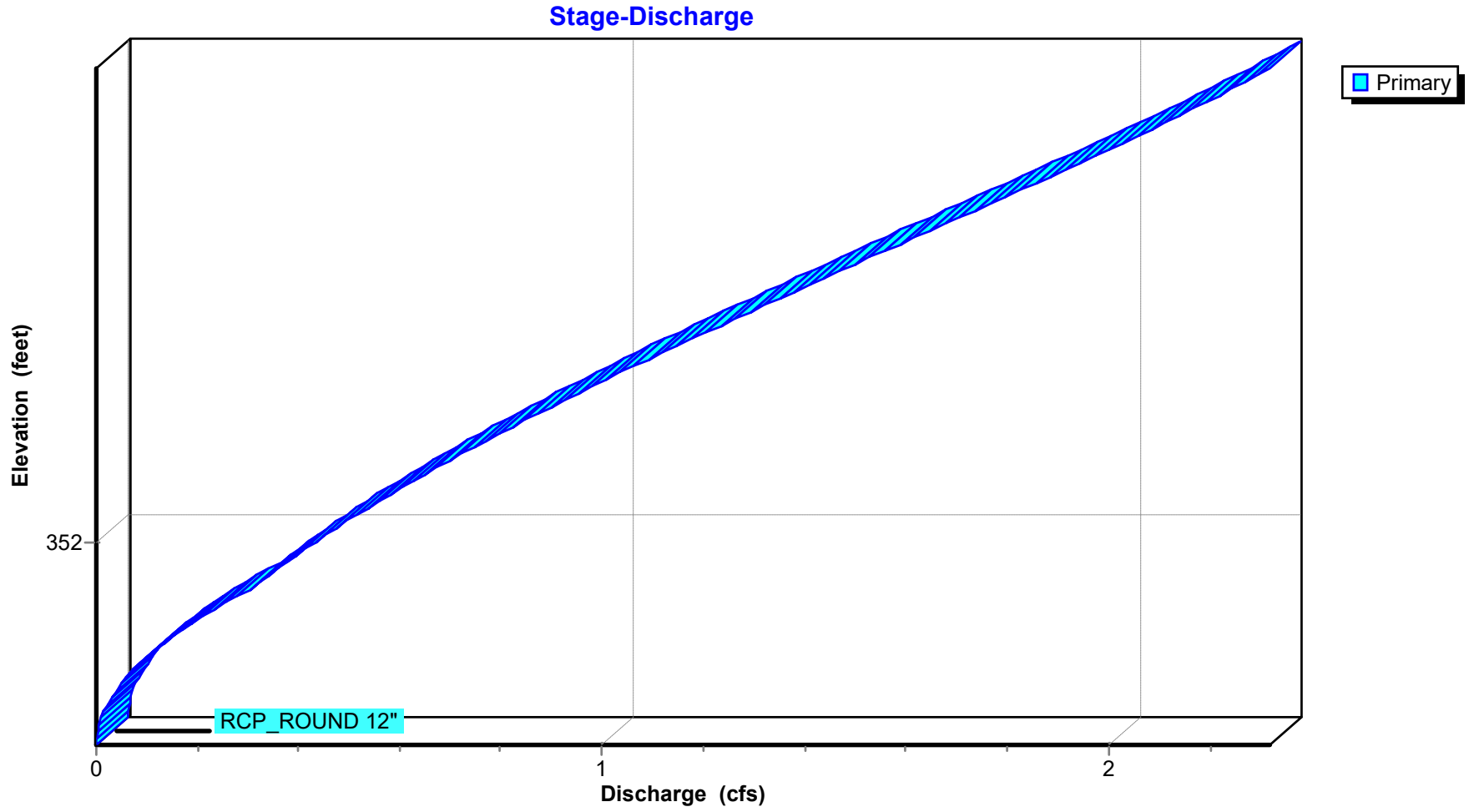
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.68" for 2-yr event
Inflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Outflow = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond CI-C4 : CURB INLET C4

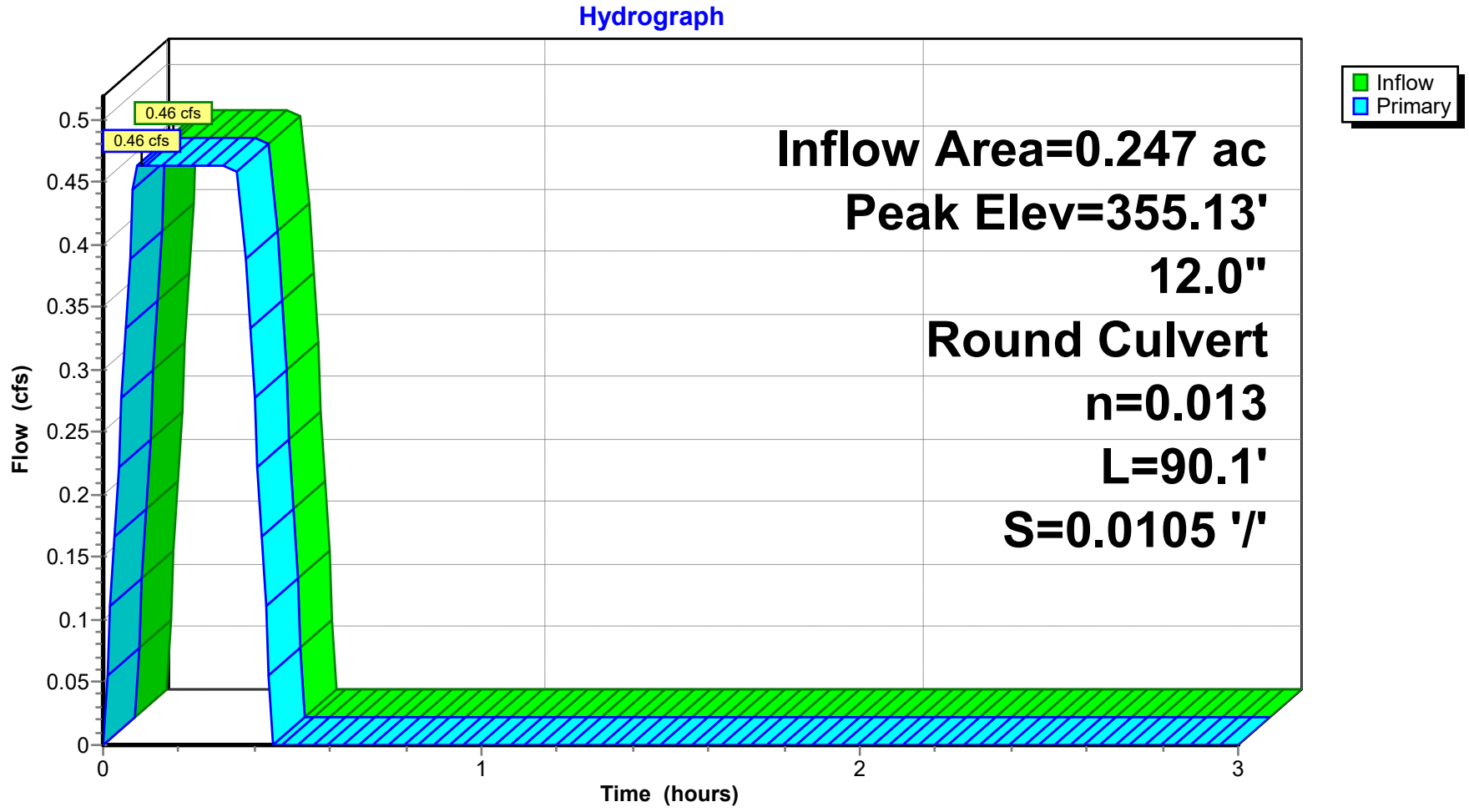
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.13' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 0.10 hrs HW=355.13' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.46 cfs @ 3.09 fps)

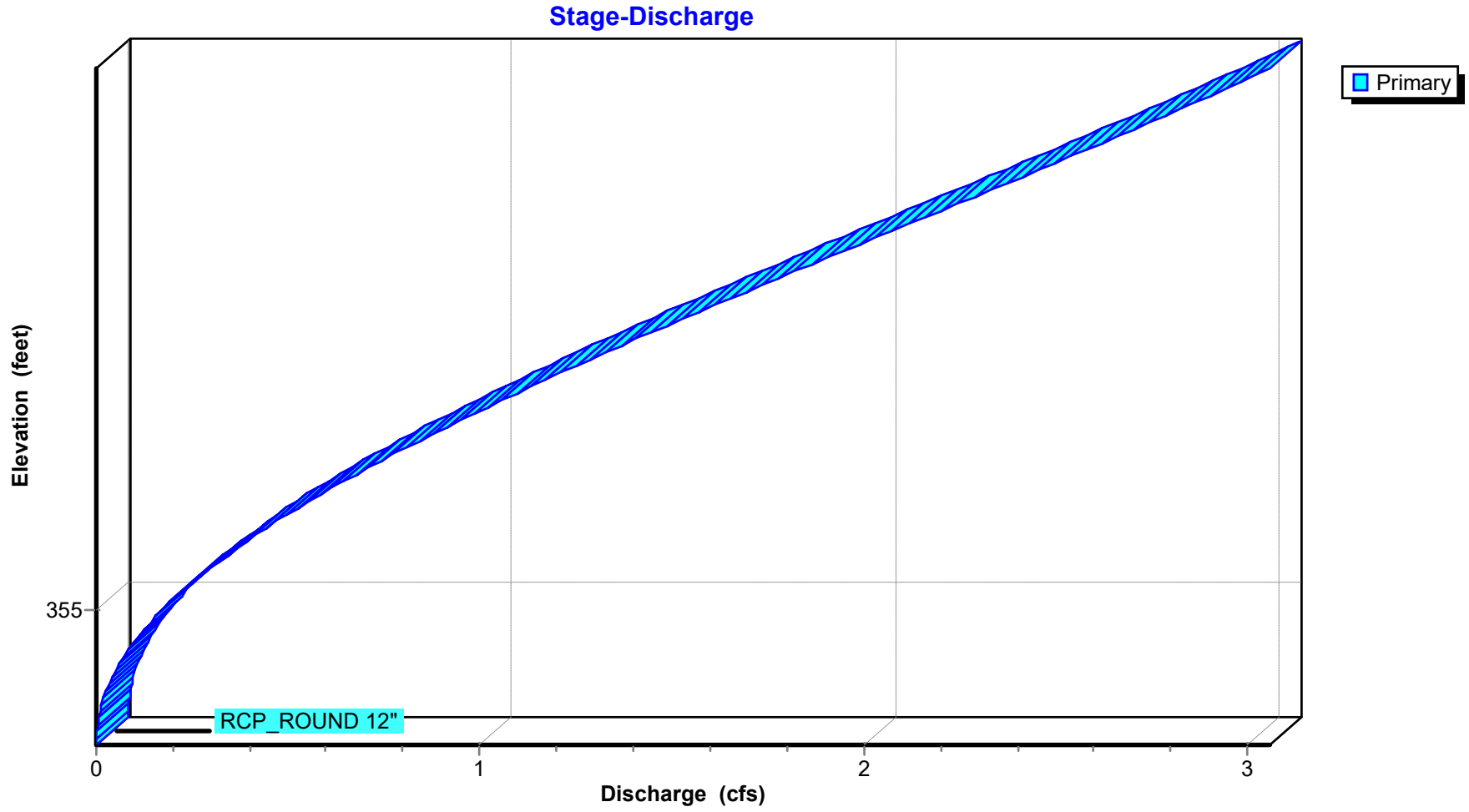
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

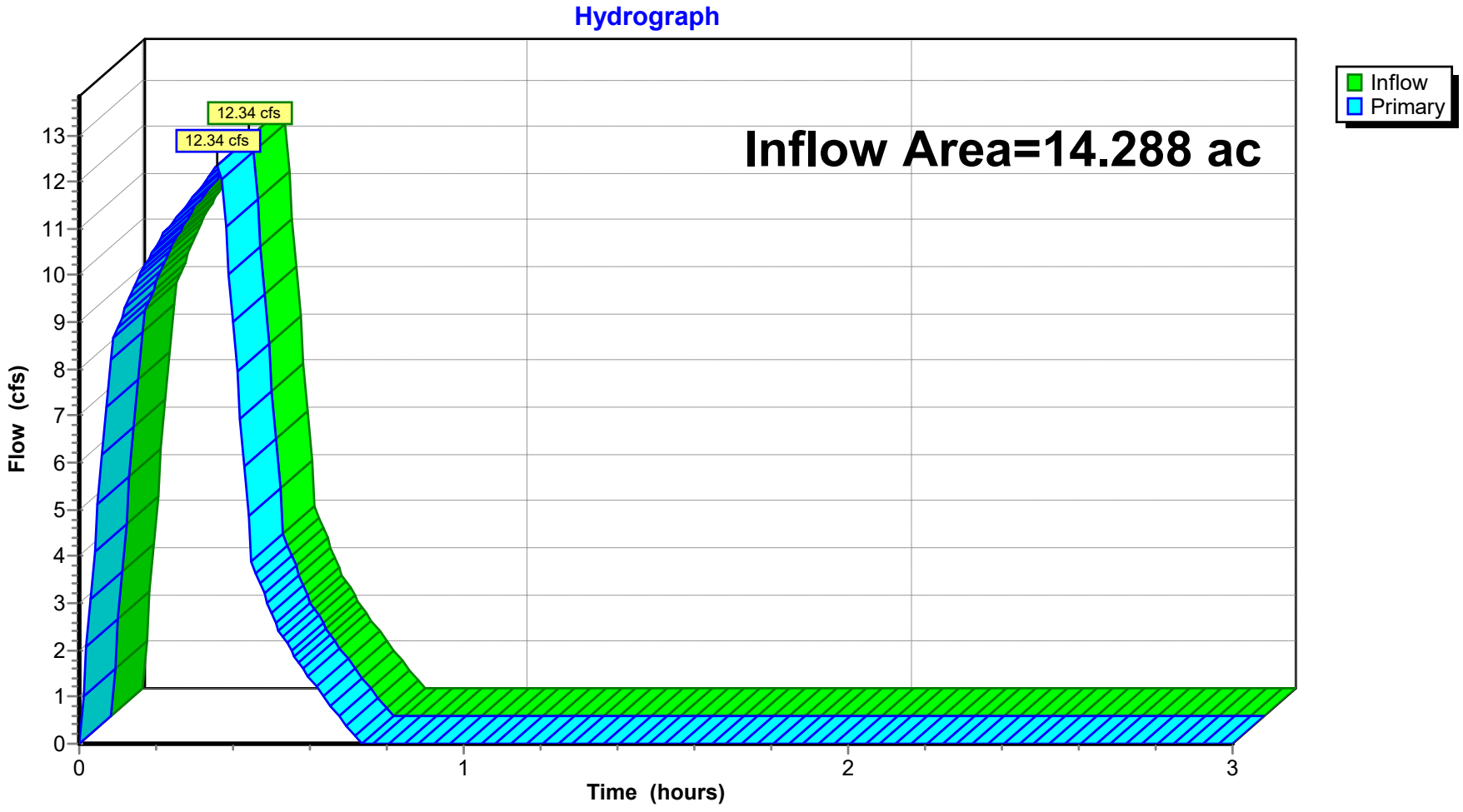
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.32" for 2-yr event
Inflow = 12.34 cfs @ 0.36 hrs, Volume= 0.376 af
Primary = 12.34 cfs @ 0.36 hrs, Volume= 0.376 af, Atten= 0%, Lag= 0.0 min

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

Link POST-DEV: Post-Development

Hydrograph



Summary for Subcatchment DB-B1: Drainage Basin B1

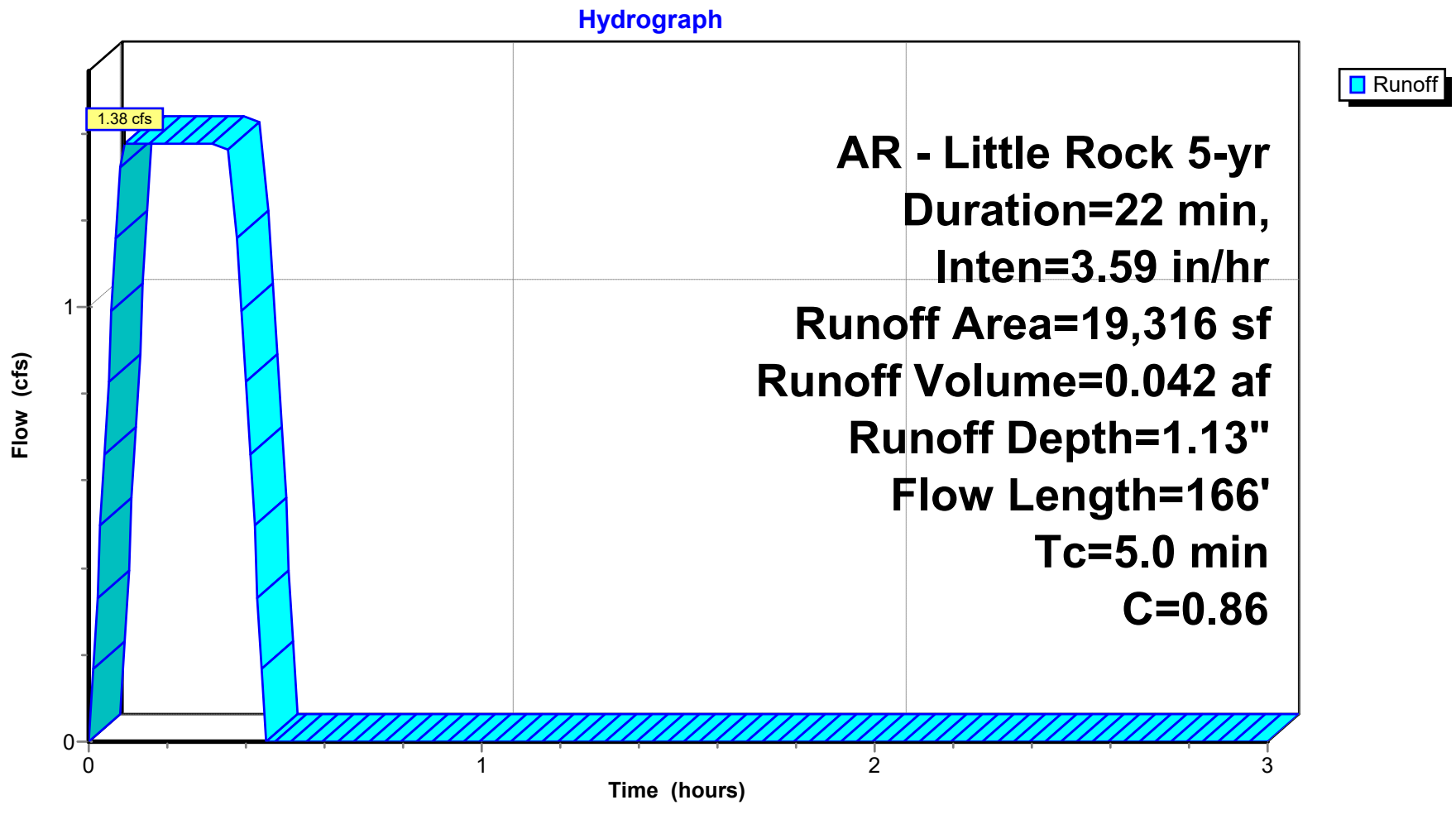
Runoff = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af, Depth= 1.13"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			

Subcatchment DB-B1: Drainage Basin B1



Summary for Subcatchment DB-B10: Drainage Basin B10

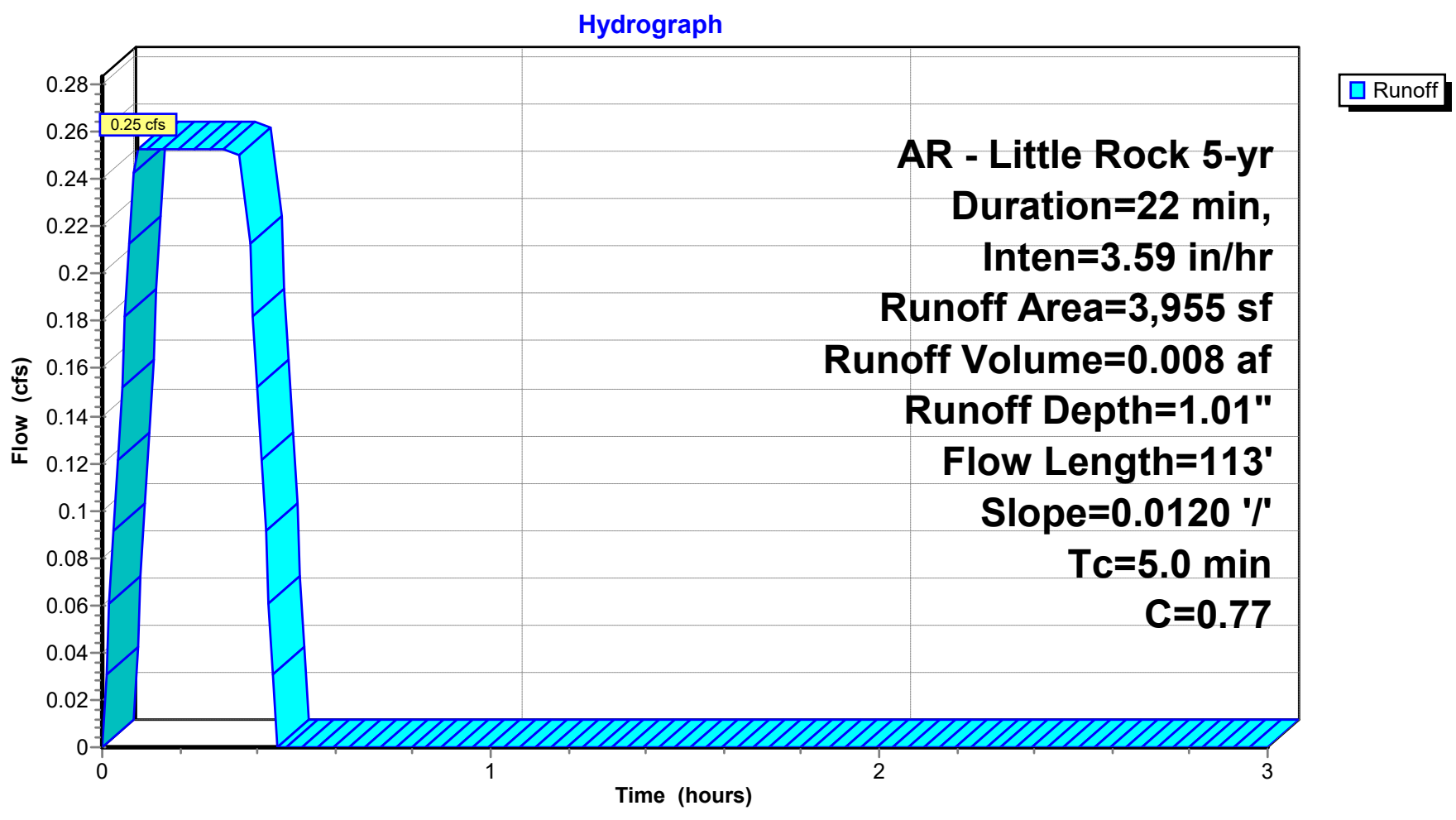
Runoff = 0.25 cfs @ 0.09 hrs, Volume= 0.008 af, Depth= 1.01"
Routed to Pond CI-C4 : CURB INLET C4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10



Summary for Subcatchment DB-B11: Drainage Basin B11

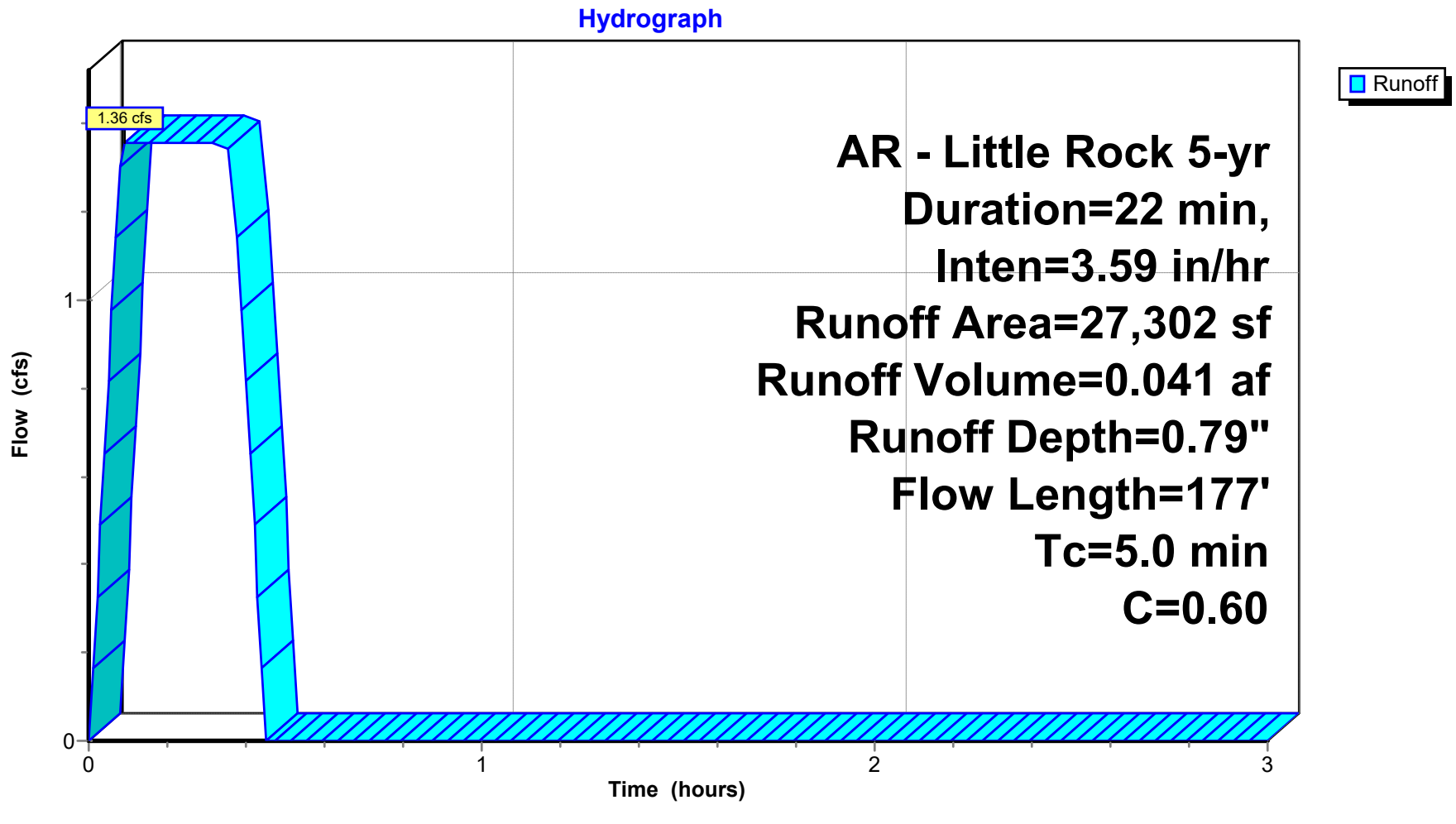
Runoff = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af, Depth= 0.79"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof**
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace**
					Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			

Subcatchment DB-B11: Drainage Basin B11



Summary for Subcatchment DB-B12: Drainage Basin B12

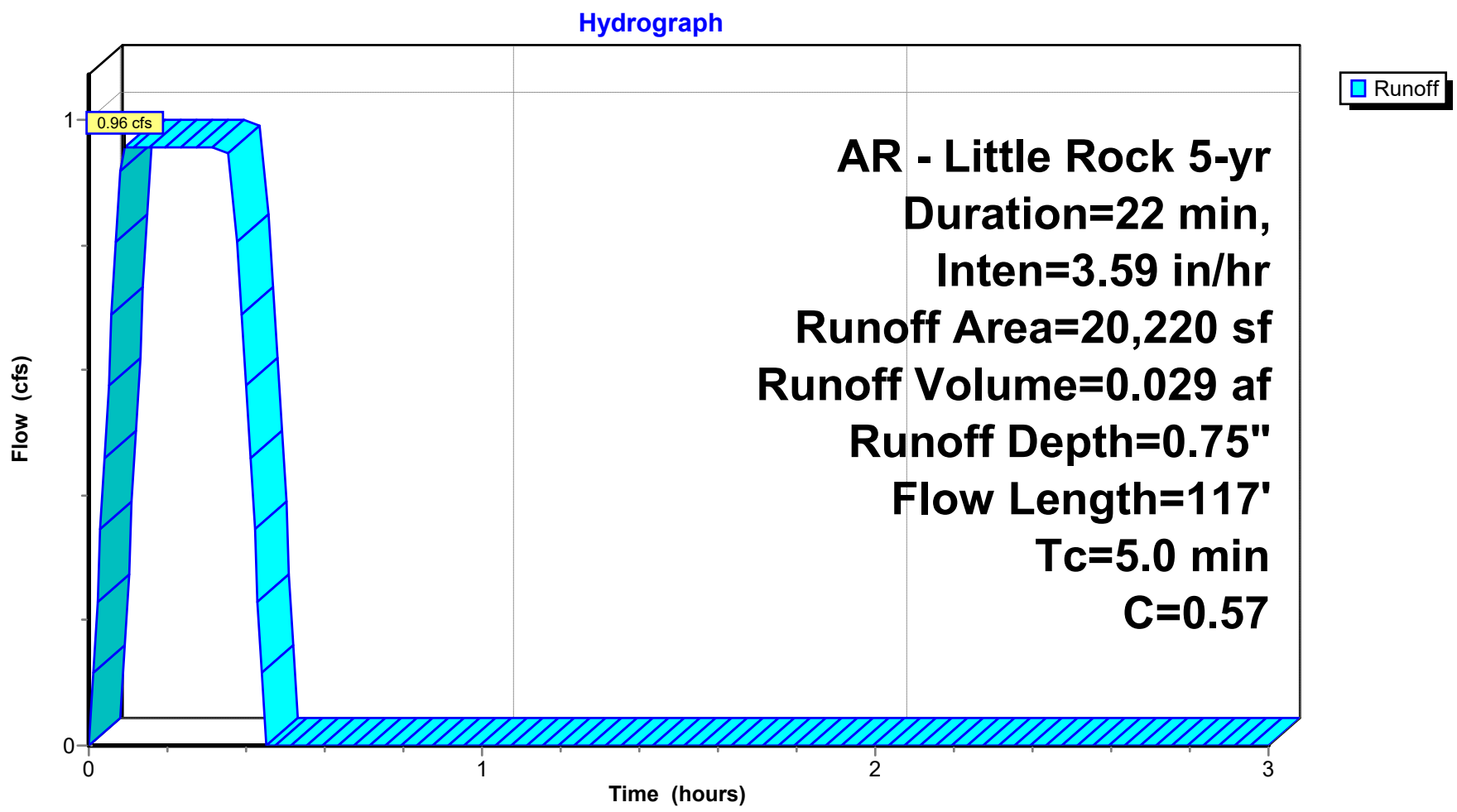
Runoff = 0.96 cfs @ 0.09 hrs, Volume= 0.029 af, Depth= 0.75"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			

Subcatchment DB-B12: Drainage Basin B12



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

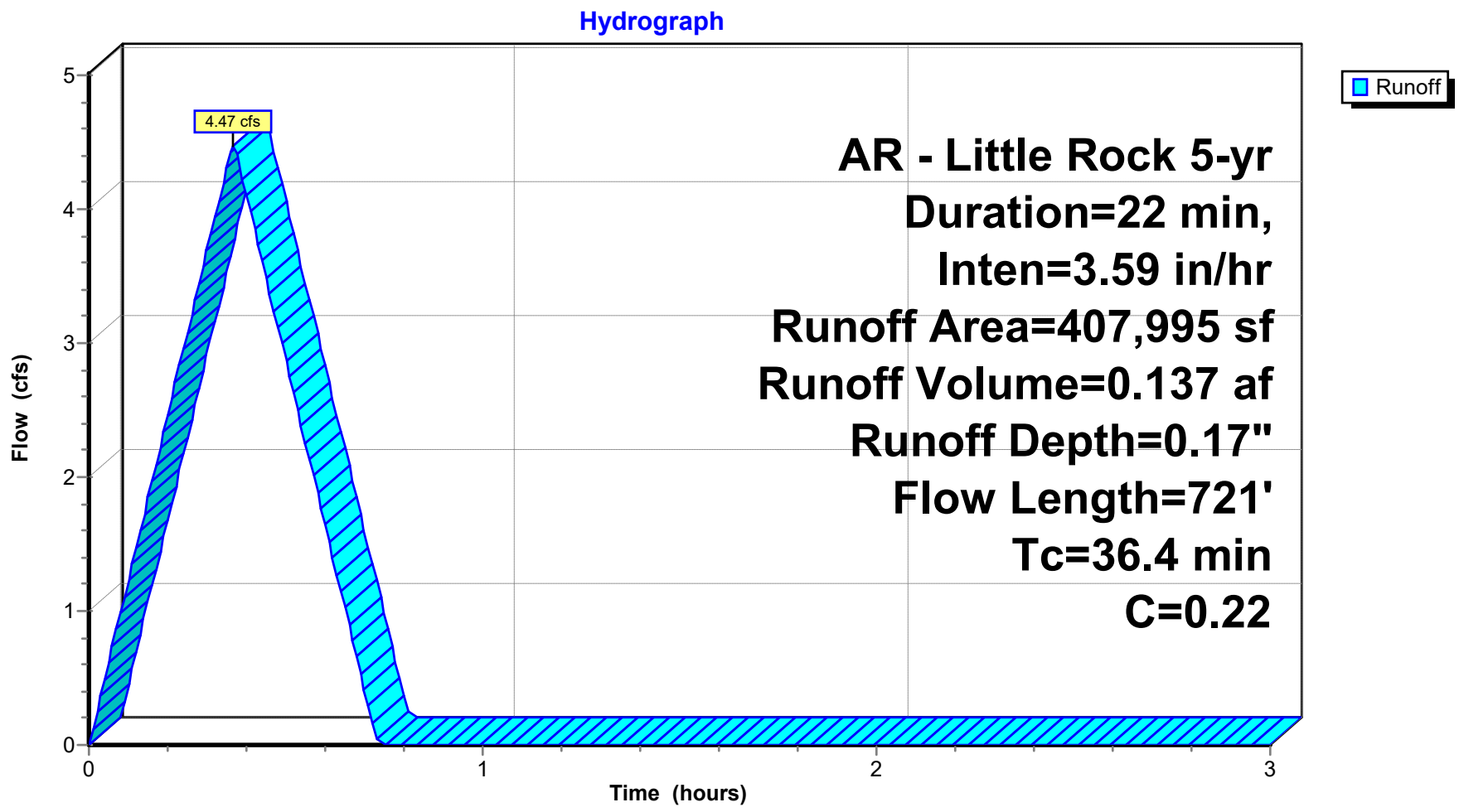
Runoff = 4.47 cfs @ 0.37 hrs, Volume= 0.137 af, Depth= 0.17"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13



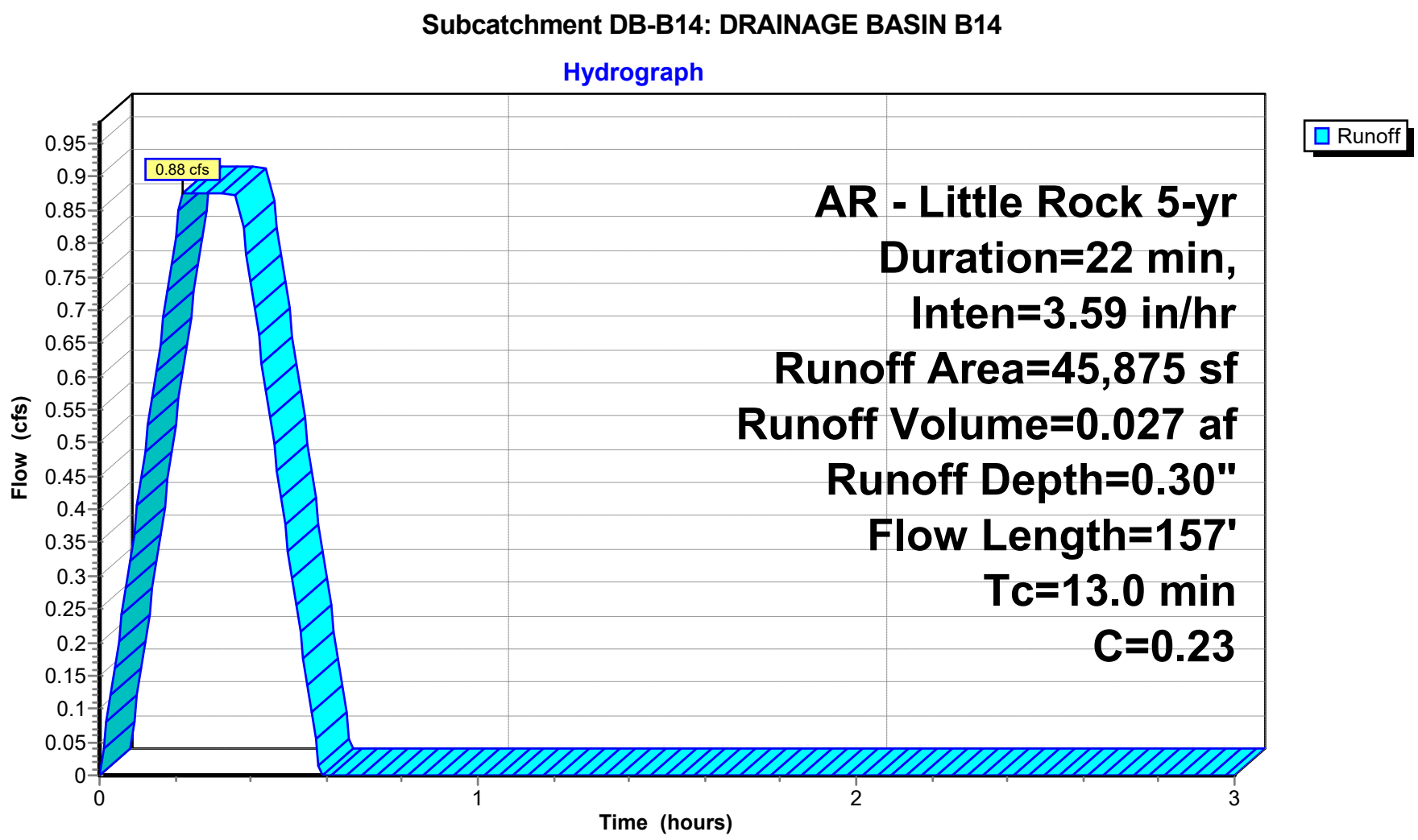
Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

Runoff = 0.88 cfs @ 0.22 hrs, Volume= 0.027 af, Depth= 0.30"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			



Summary for Subcatchment DB-B2: Drainage Basin B2

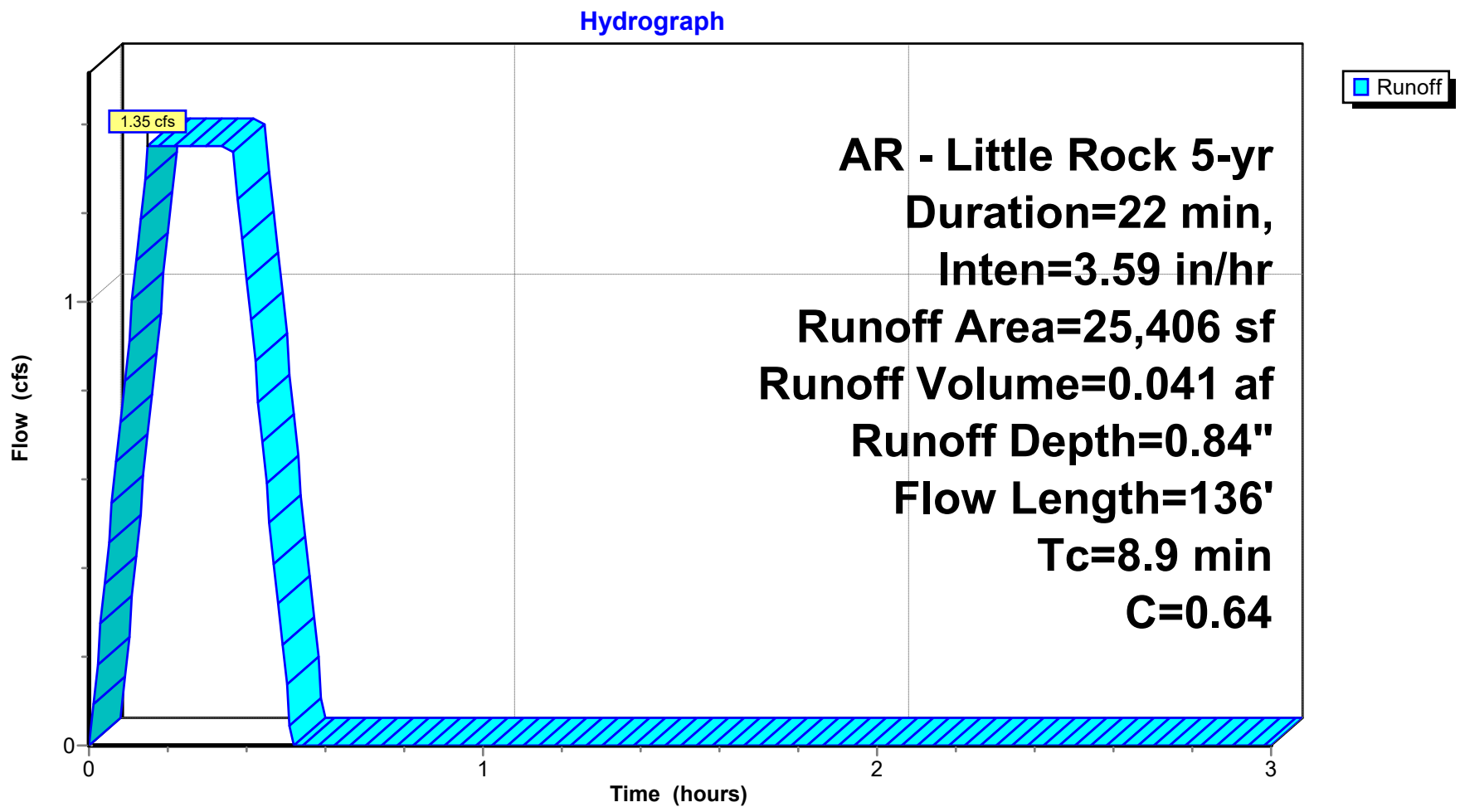
Runoff = 1.35 cfs @ 0.15 hrs, Volume= 0.041 af, Depth= 0.84"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



Summary for Subcatchment DB-B3: Drainage Basin B3

Runoff = 0.75 cfs @ 0.09 hrs, Volume= 0.023 af, Depth= 1.01"
Routed to Pond CI-A3 : CURB INLET A3

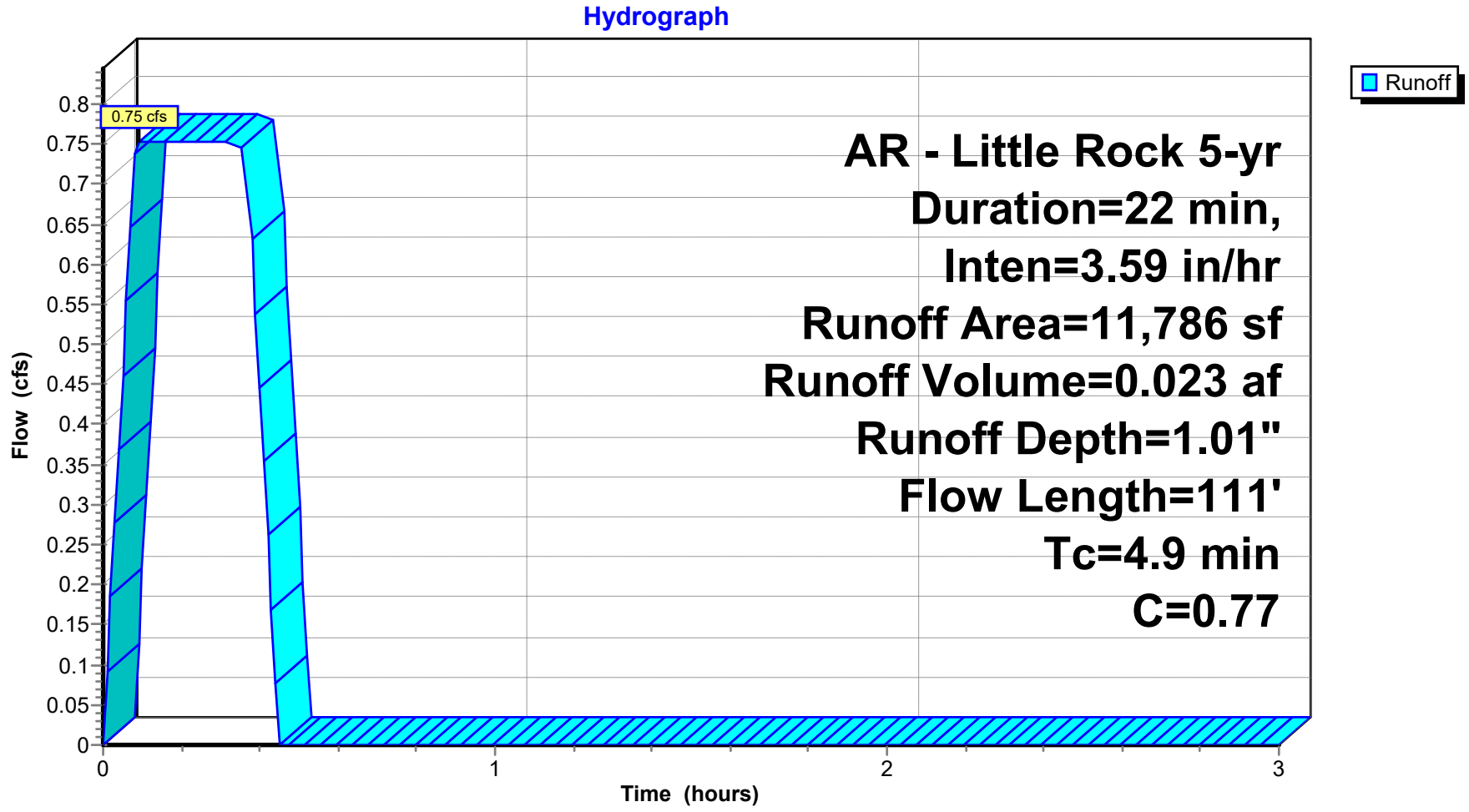
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3

Hydrograph



Summary for Subcatchment DB-B4: Drainage Basin B4

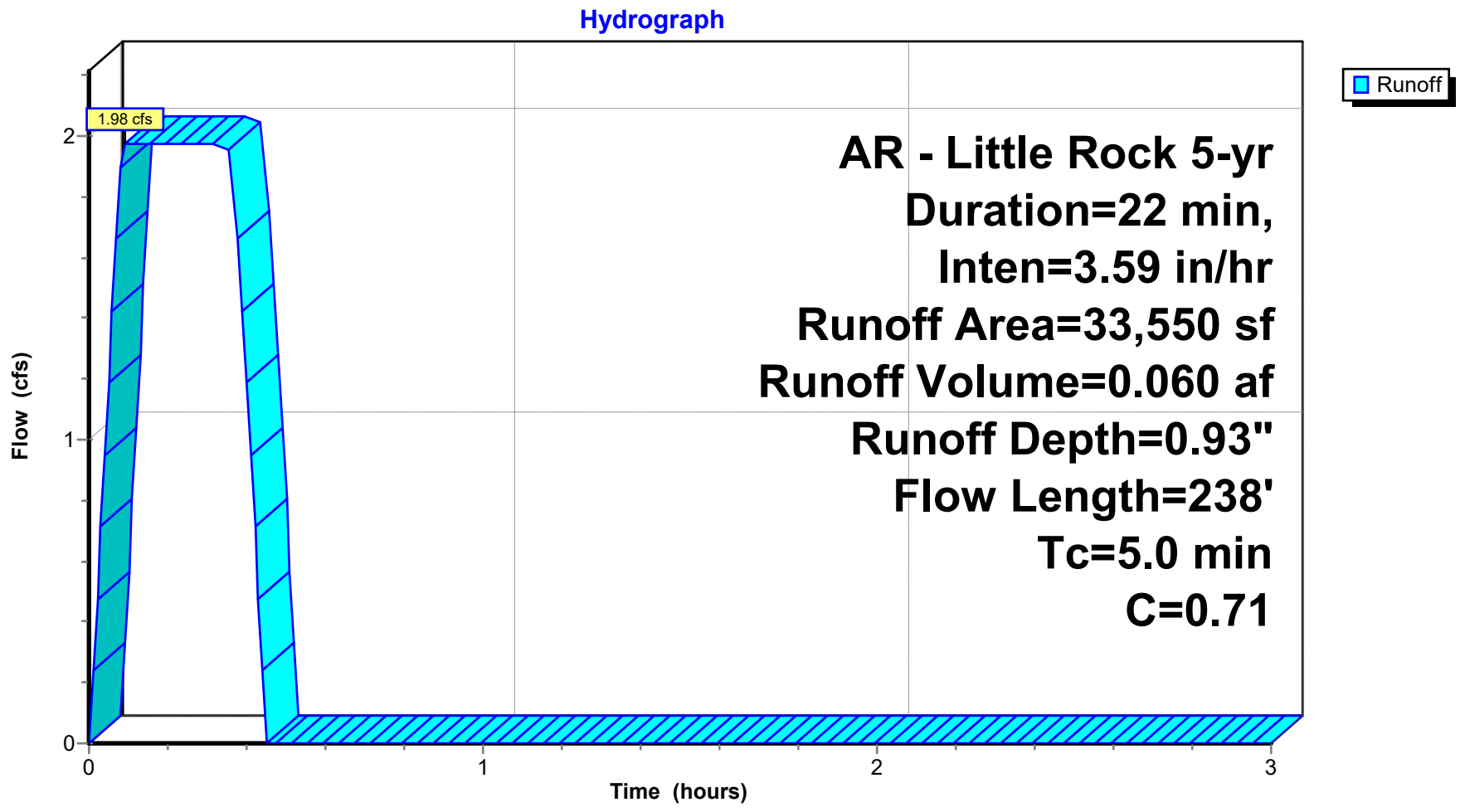
Runoff = 1.98 cfs @ 0.09 hrs, Volume= 0.060 af, Depth= 0.93"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.45 cfs @ 0.09 hrs, Volume= 0.014 af, Depth= 0.67"
Routed to Pond CI-A5 : CURB INLET A5

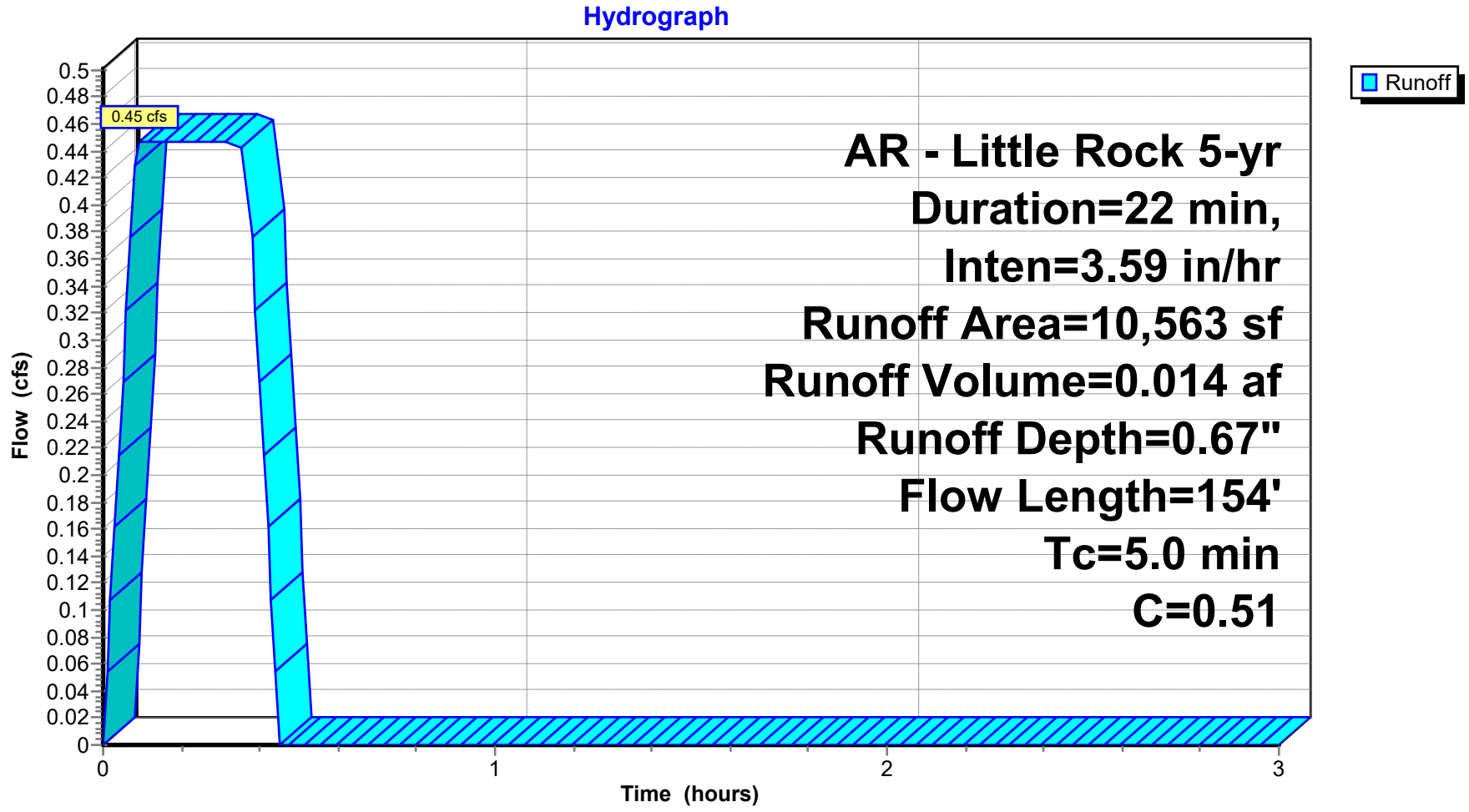
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			

Subcatchment DB-B5: Drainage Basin B5

Hydrograph



Summary for Subcatchment DB-B6: Drainage Basin B6

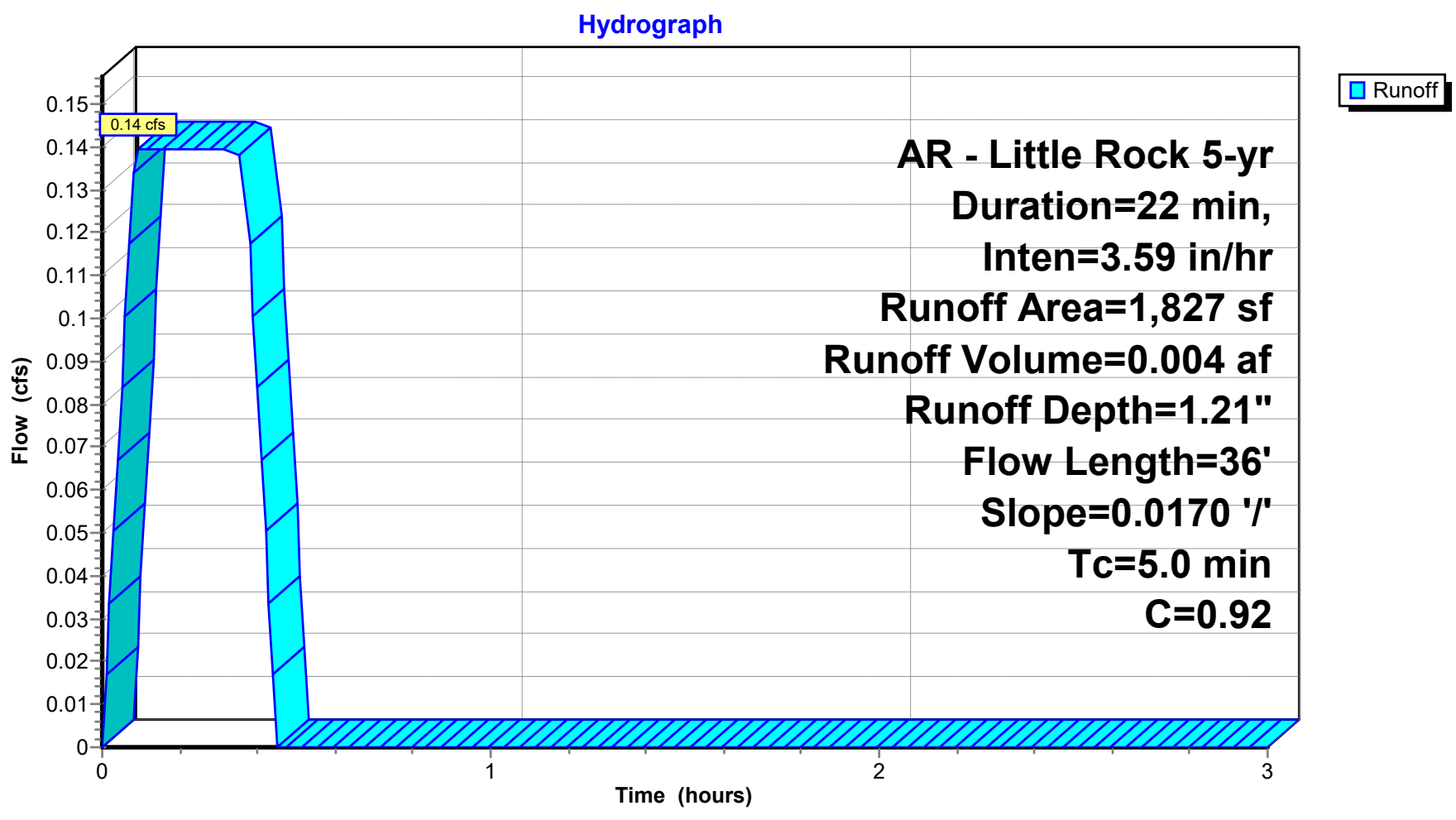
Runoff = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.21"
Routed to Pond AI-B1 : AREA INLET B1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6



Summary for Subcatchment DB-B7: Drainage Basin B7

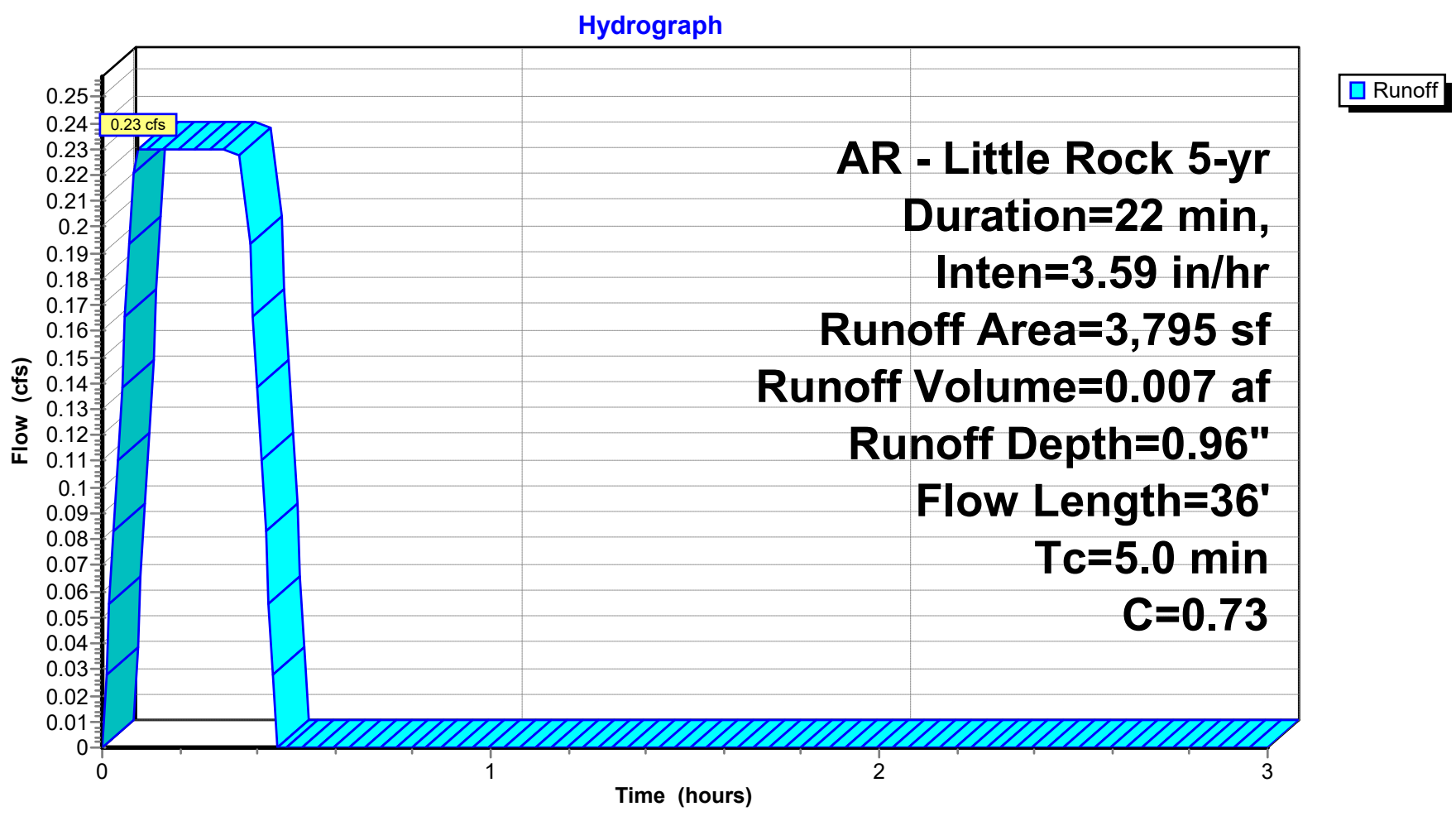
Runoff = 0.23 cfs @ 0.09 hrs, Volume= 0.007 af, Depth= 0.96"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



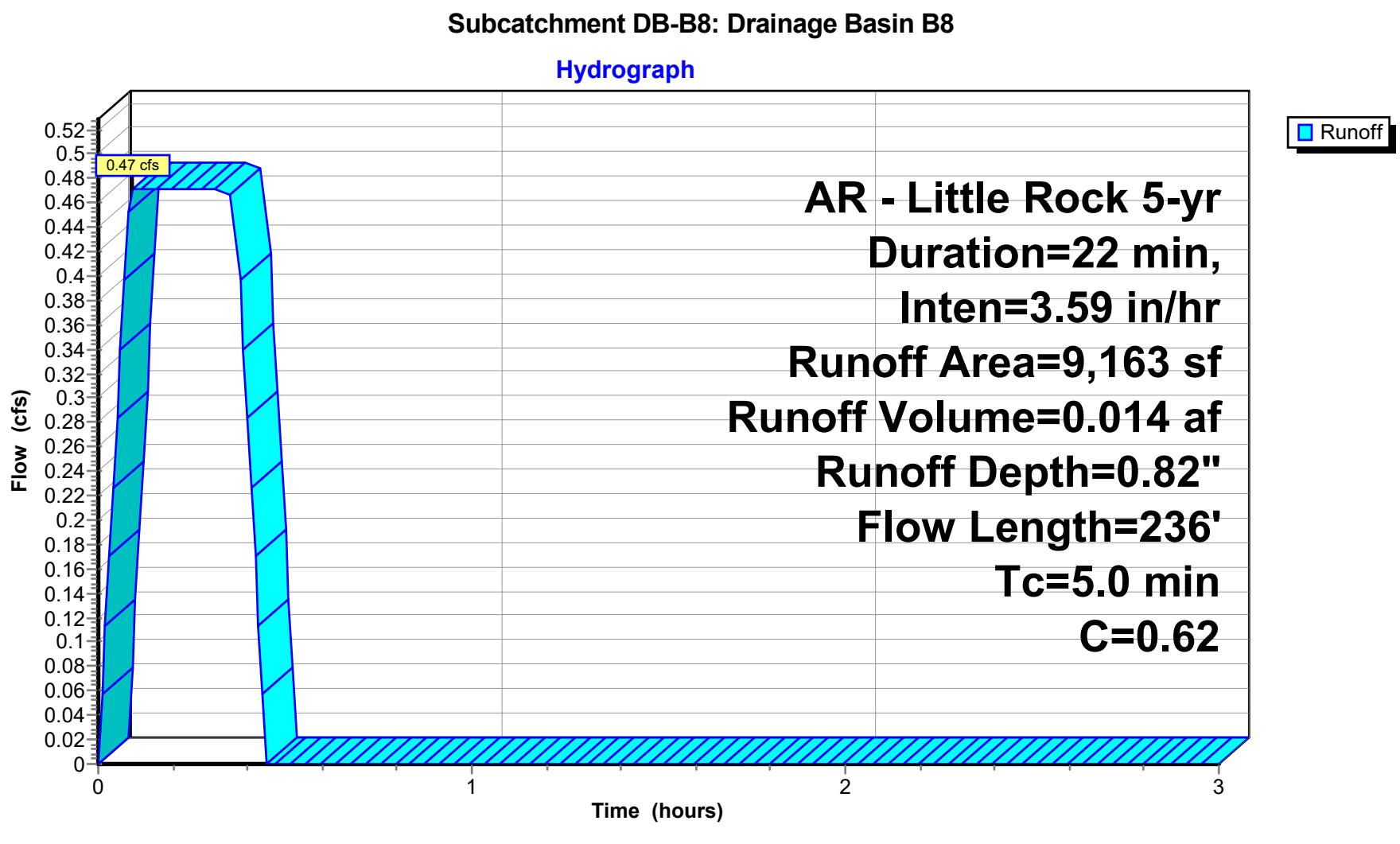
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.47 cfs @ 0.09 hrs, Volume= 0.014 af, Depth= 0.82"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



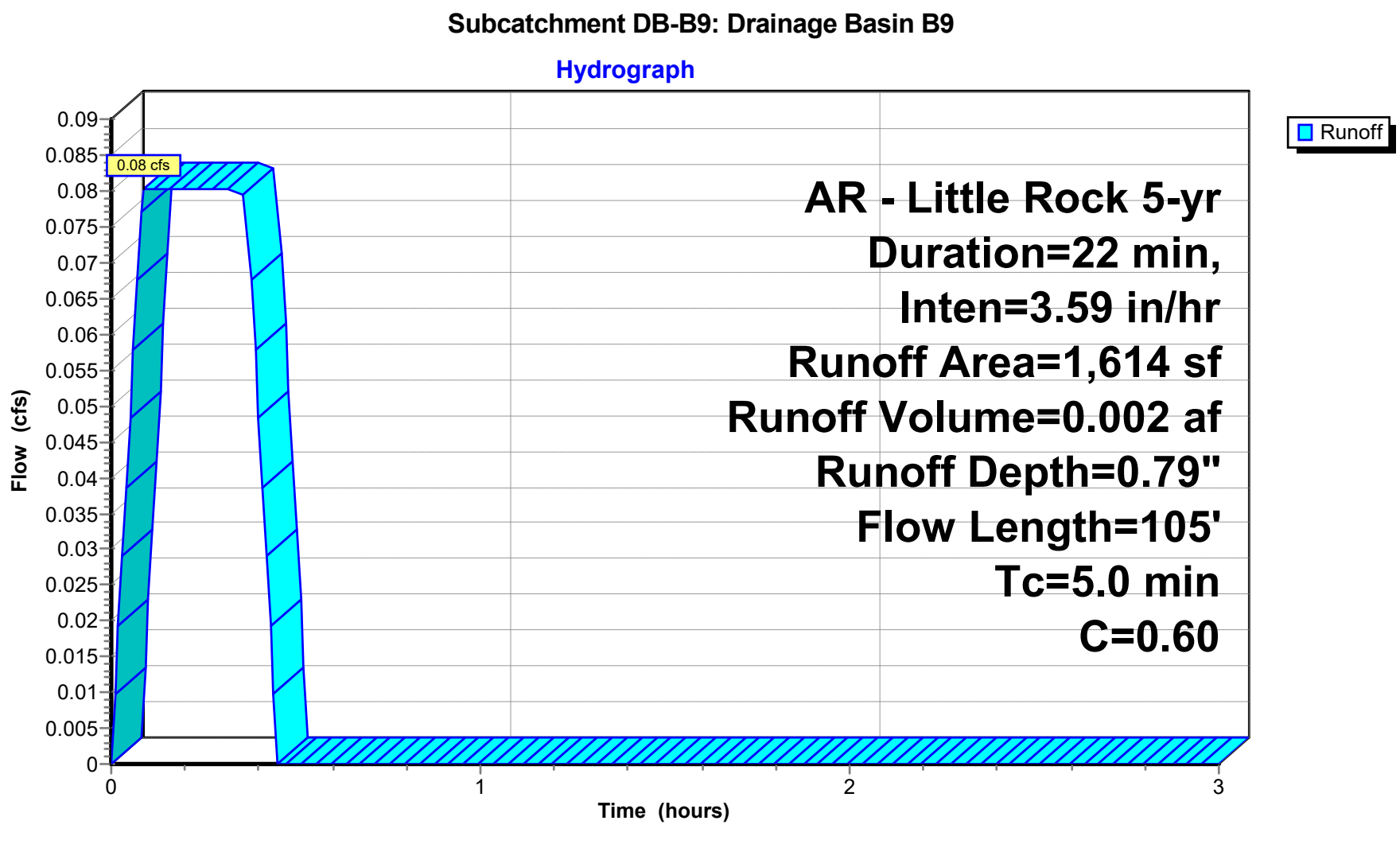
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.08 cfs @ 0.09 hrs, Volume= 0.002 af, Depth= 0.79"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 5-yr Duration=22 min, Inten=3.59 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.21" for 5-yr event
Inflow = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af
Outflow = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.14 cfs @ 0.09 hrs, Volume= 0.004 af
Routed to Pond AI-B2 : AREA INLET B2

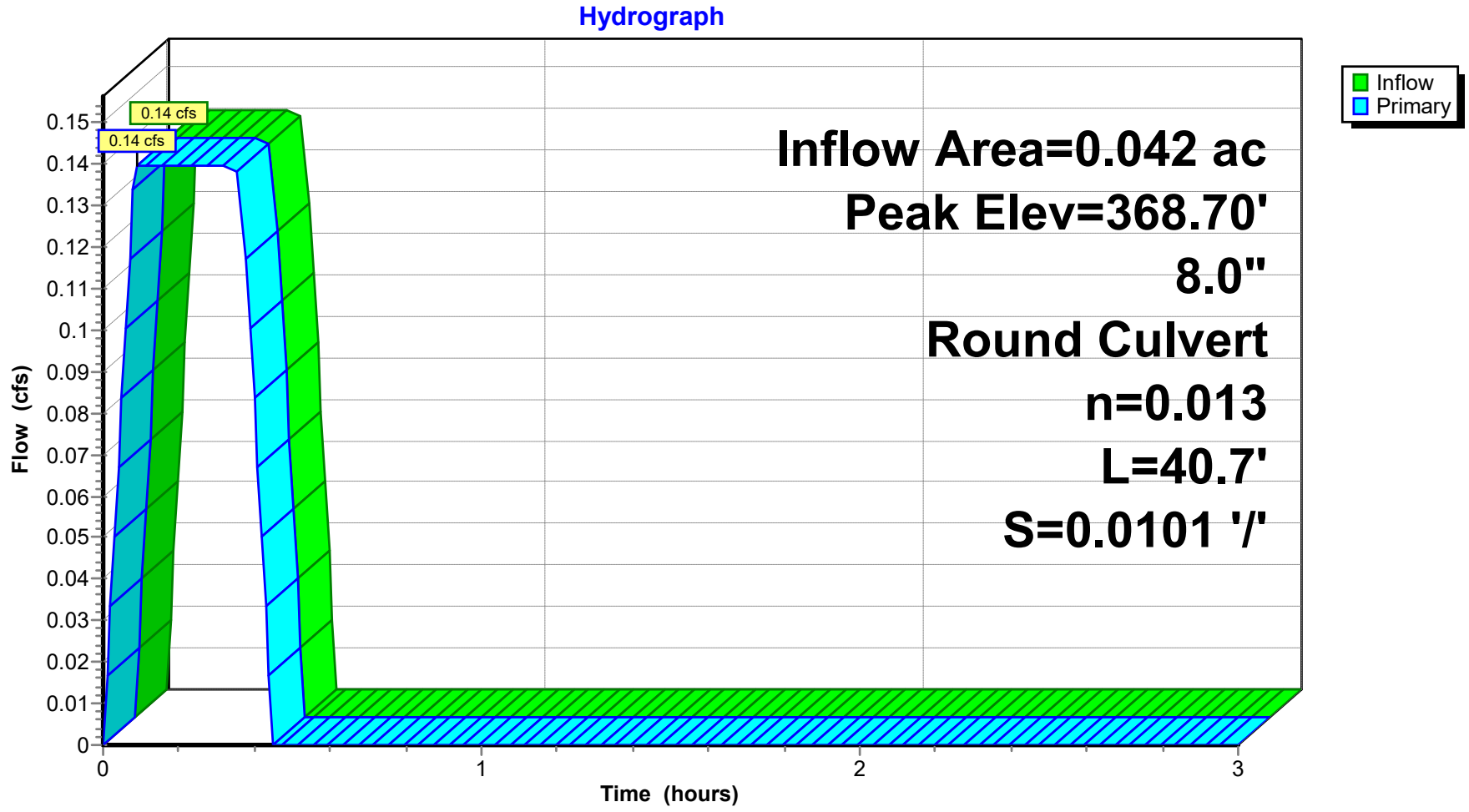
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.70' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.14 cfs @ 0.09 hrs HW=368.70' (Free Discharge)
└**1=HDPE 8"** (Barrel Controls 0.14 cfs @ 2.24 fps)

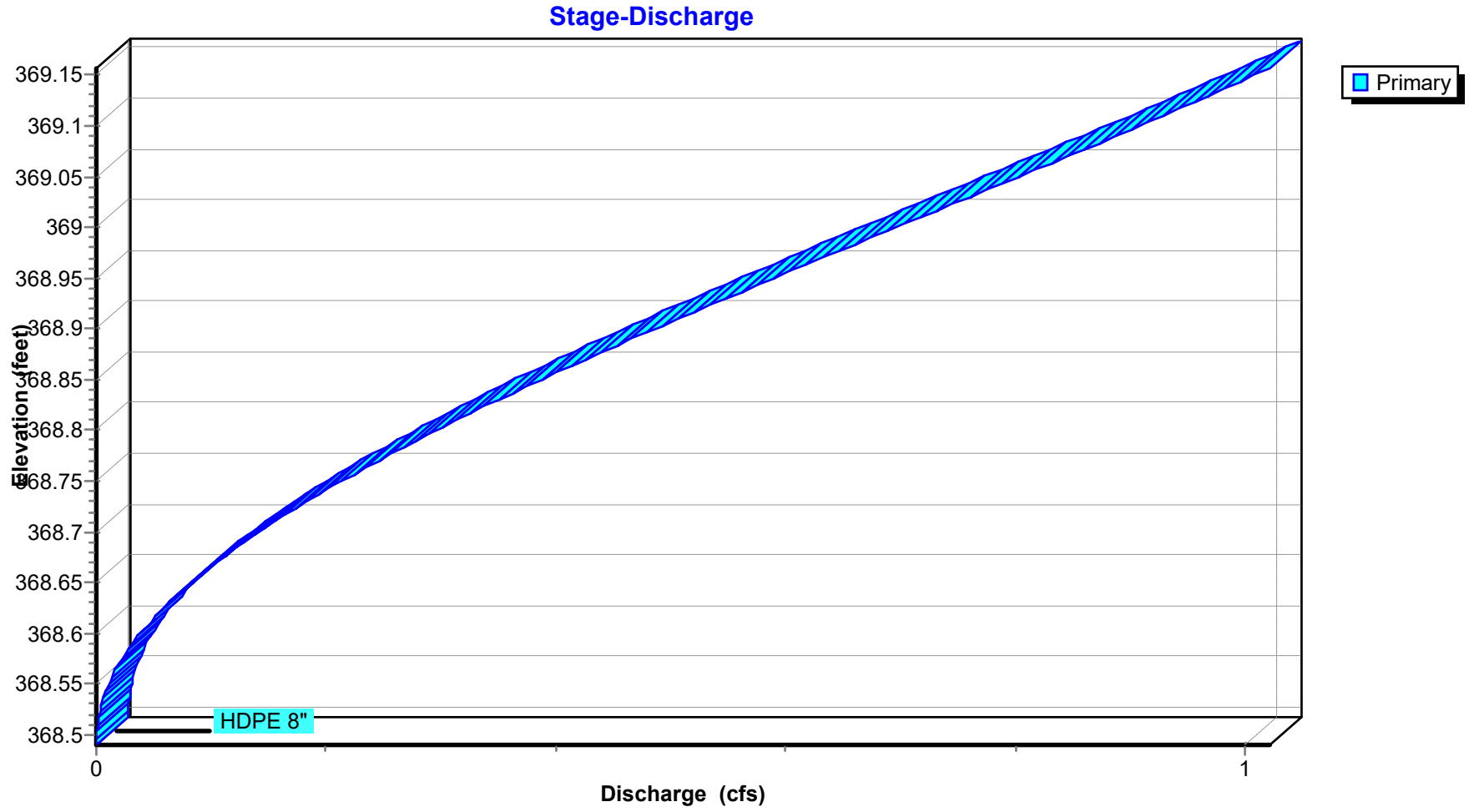
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.04" for 5-yr event
Inflow = 0.37 cfs @ 0.09 hrs, Volume= 0.011 af
Outflow = 0.37 cfs @ 0.10 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.6 min
Primary = 0.37 cfs @ 0.10 hrs, Volume= 0.011 af
Routed to Pond CI-A2 : CURB INLET A2

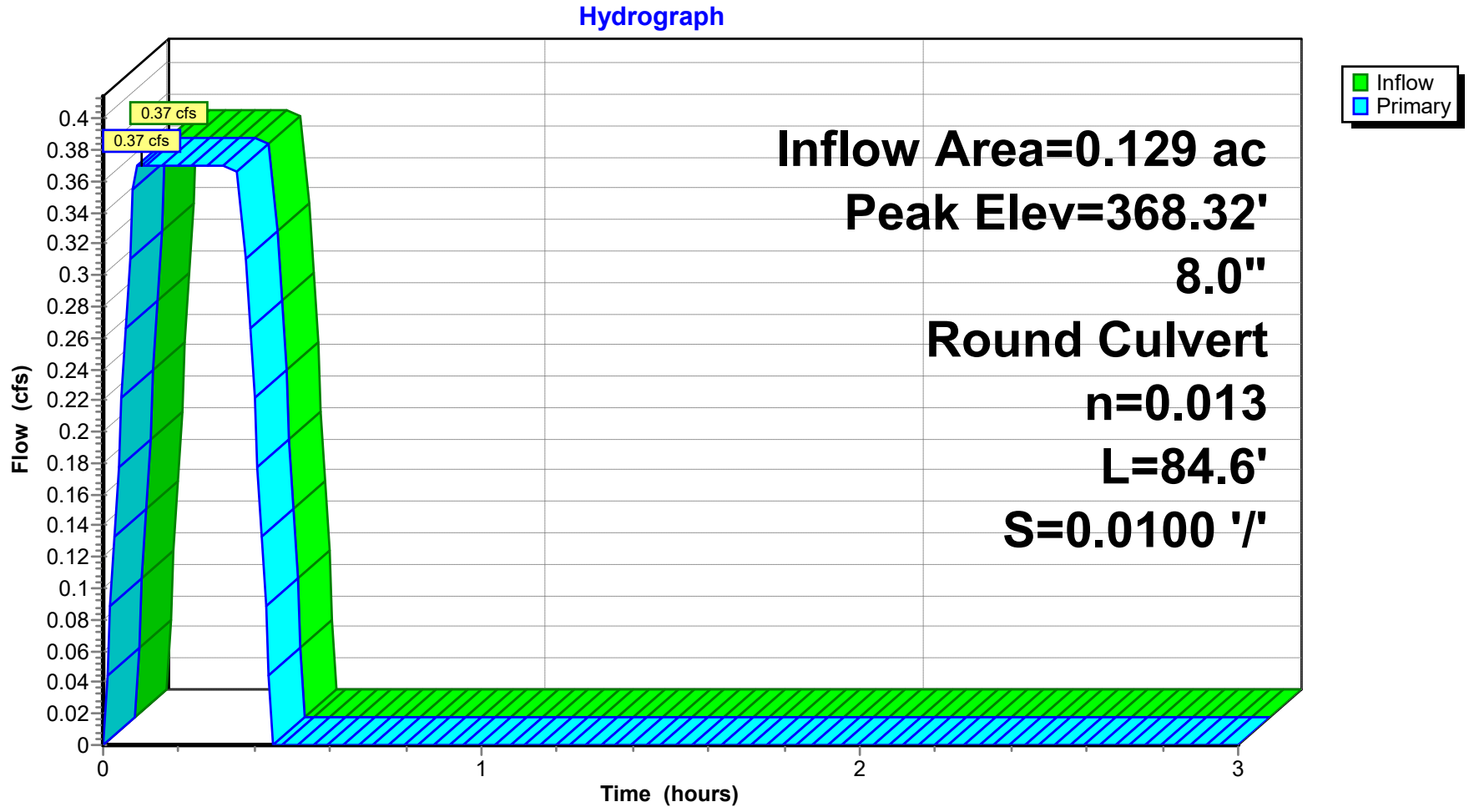
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.32' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.37 cfs @ 0.10 hrs HW=368.32' (Free Discharge)
└**1=HDPE** (Barrel Controls 0.37 cfs @ 2.96 fps)

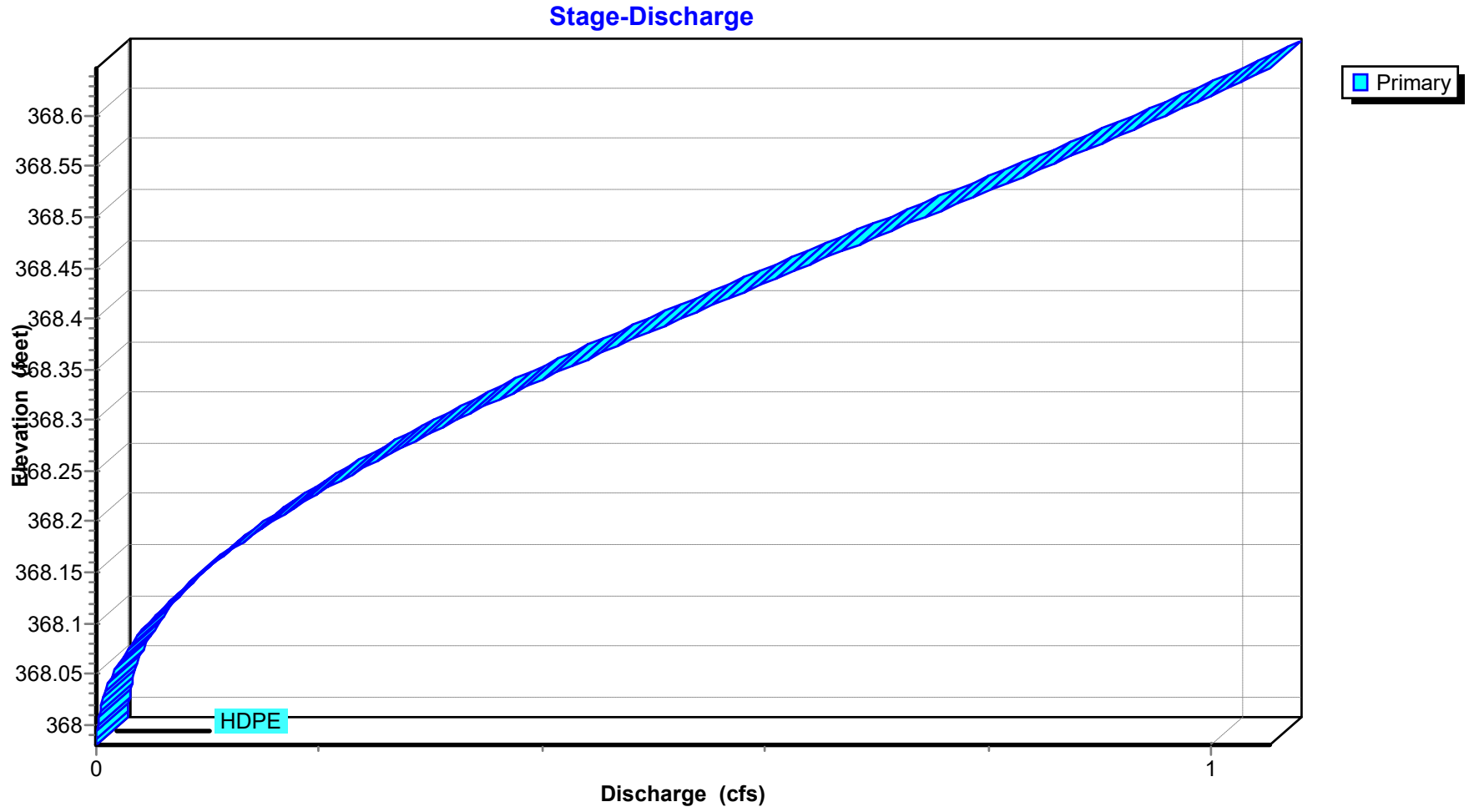
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.13" for 5-yr event
Inflow = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af
Outflow = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 1.38 cfs @ 0.09 hrs, Volume= 0.042 af
Routed to Pond CI-A2 : CURB INLET A2

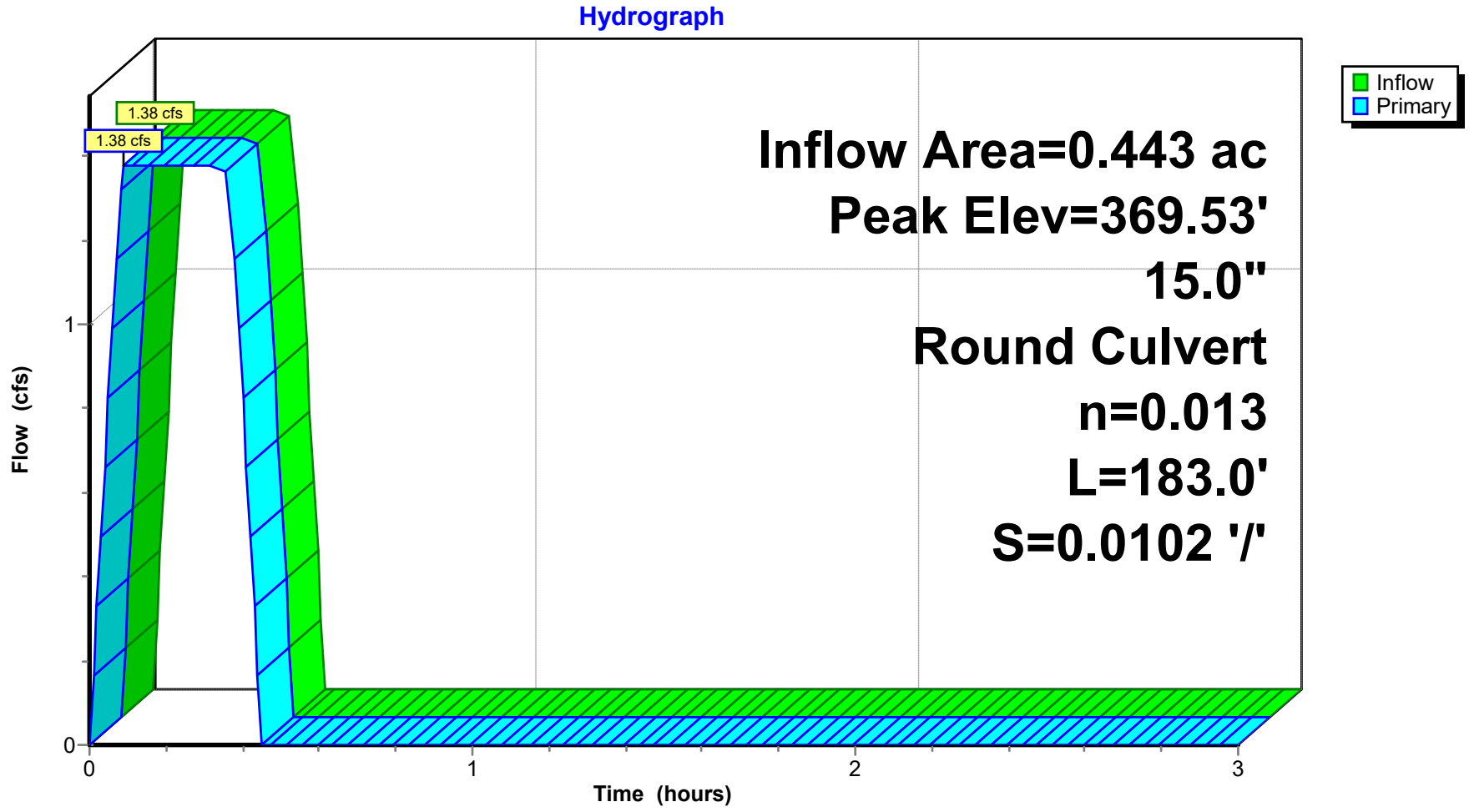
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.53' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.38 cfs @ 0.09 hrs HW=369.53' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.38 cfs @ 4.09 fps)

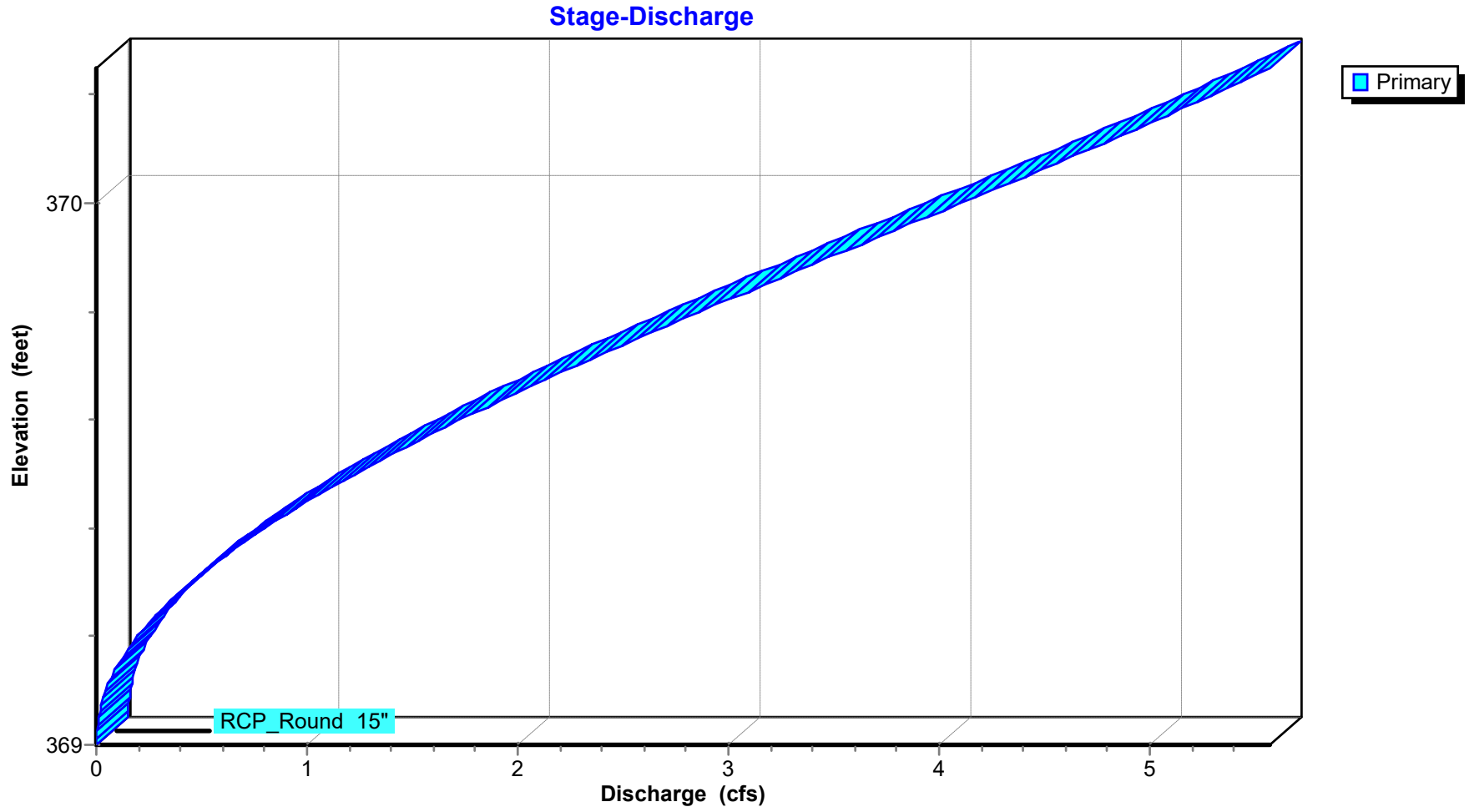
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 0.98" for 5-yr event
Inflow = 3.10 cfs @ 0.15 hrs, Volume= 0.094 af
Outflow = 3.10 cfs @ 0.16 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.6 min
Primary = 3.10 cfs @ 0.16 hrs, Volume= 0.094 af
Routed to Pond CI-A3 : CURB INLET A3

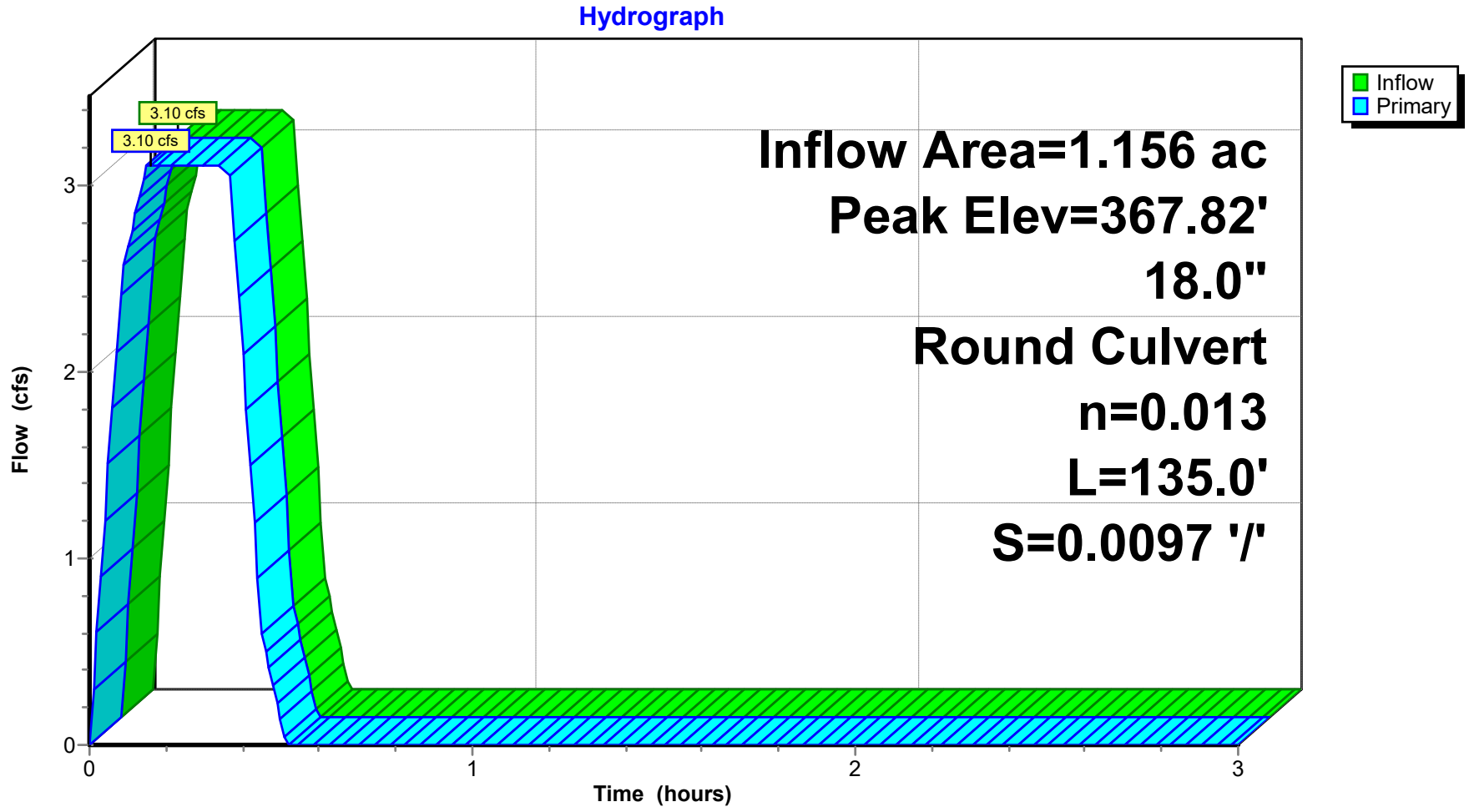
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.82' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.10 cfs @ 0.16 hrs HW=367.82' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 3.10 cfs @ 4.81 fps)

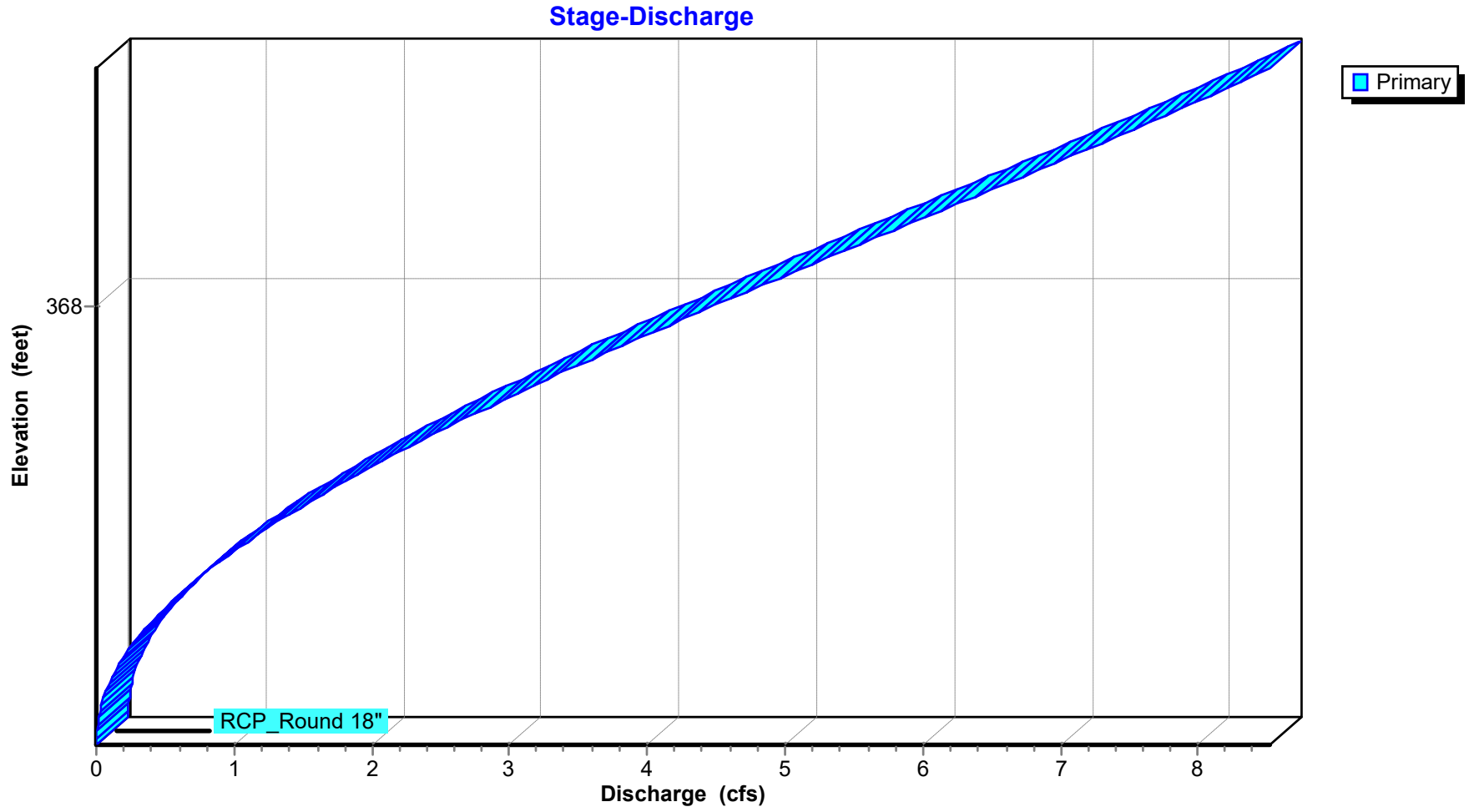
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 0.98" for 5-yr event
Inflow = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af
Outflow = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 3.85 cfs @ 0.16 hrs, Volume= 0.117 af
Routed to Pond CI-A4 : CURB INLET A4

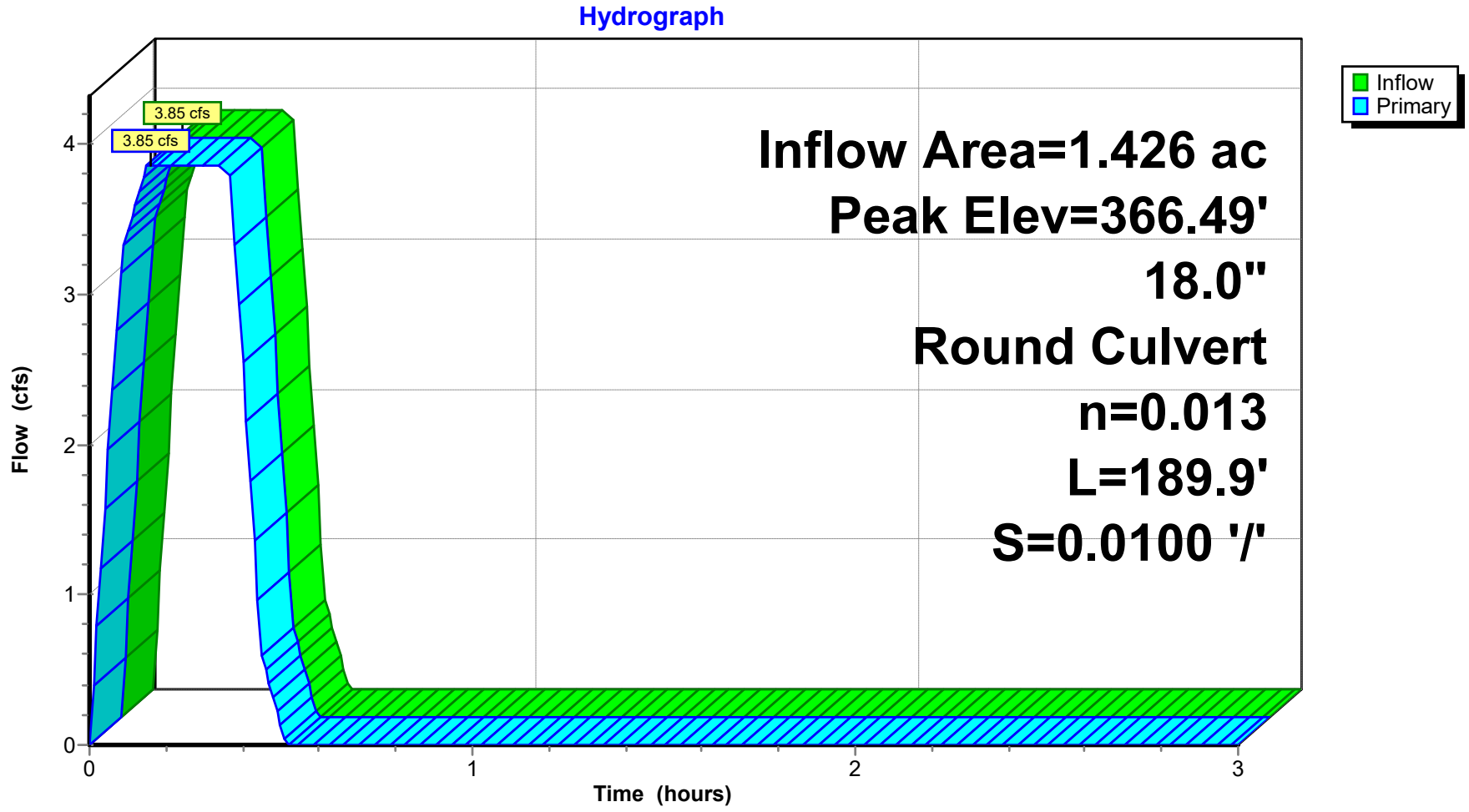
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.49' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.85 cfs @ 0.16 hrs HW=366.49' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 3.85 cfs @ 5.21 fps)

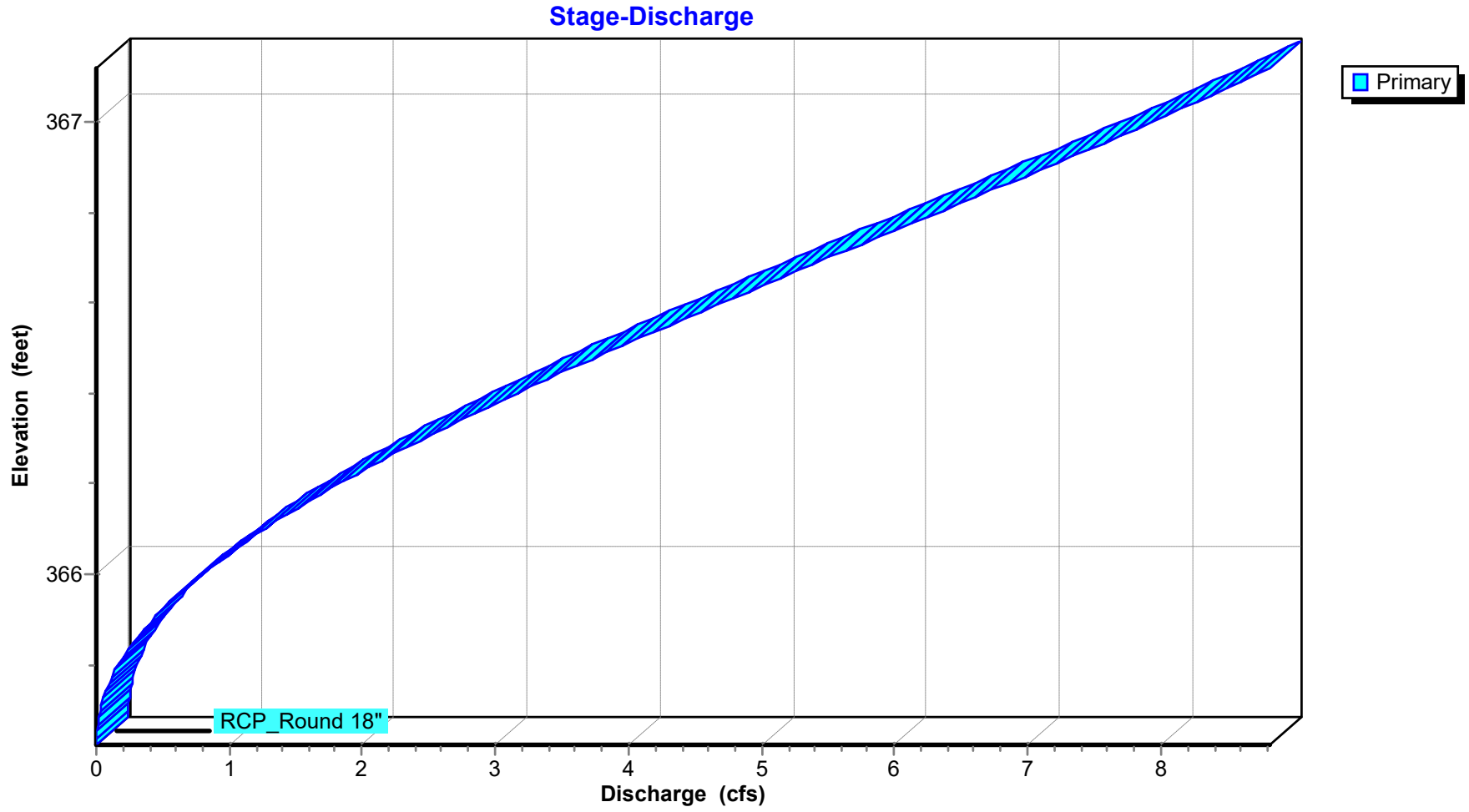
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 0.97" for 5-yr event
Inflow = 5.83 cfs @ 0.16 hrs, Volume= 0.177 af
Outflow = 5.83 cfs @ 0.15 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
Primary = 5.83 cfs @ 0.15 hrs, Volume= 0.177 af
Routed to Pond CI-A5 : CURB INLET A5

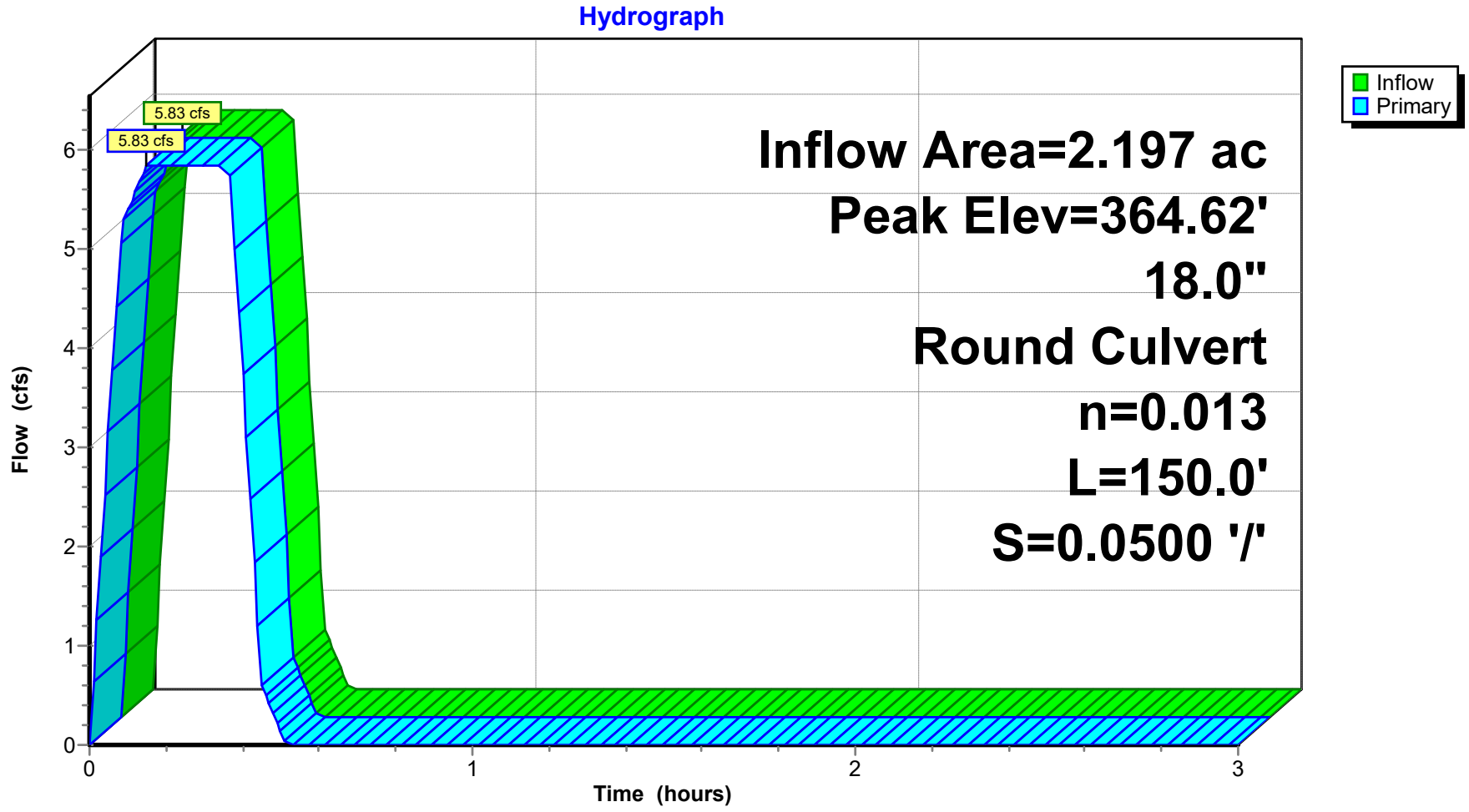
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.62' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.83 cfs @ 0.15 hrs HW=364.62' (Free Discharge)
└**1=RCP_Round 18"** (Inlet Controls 5.83 cfs @ 4.65 fps)

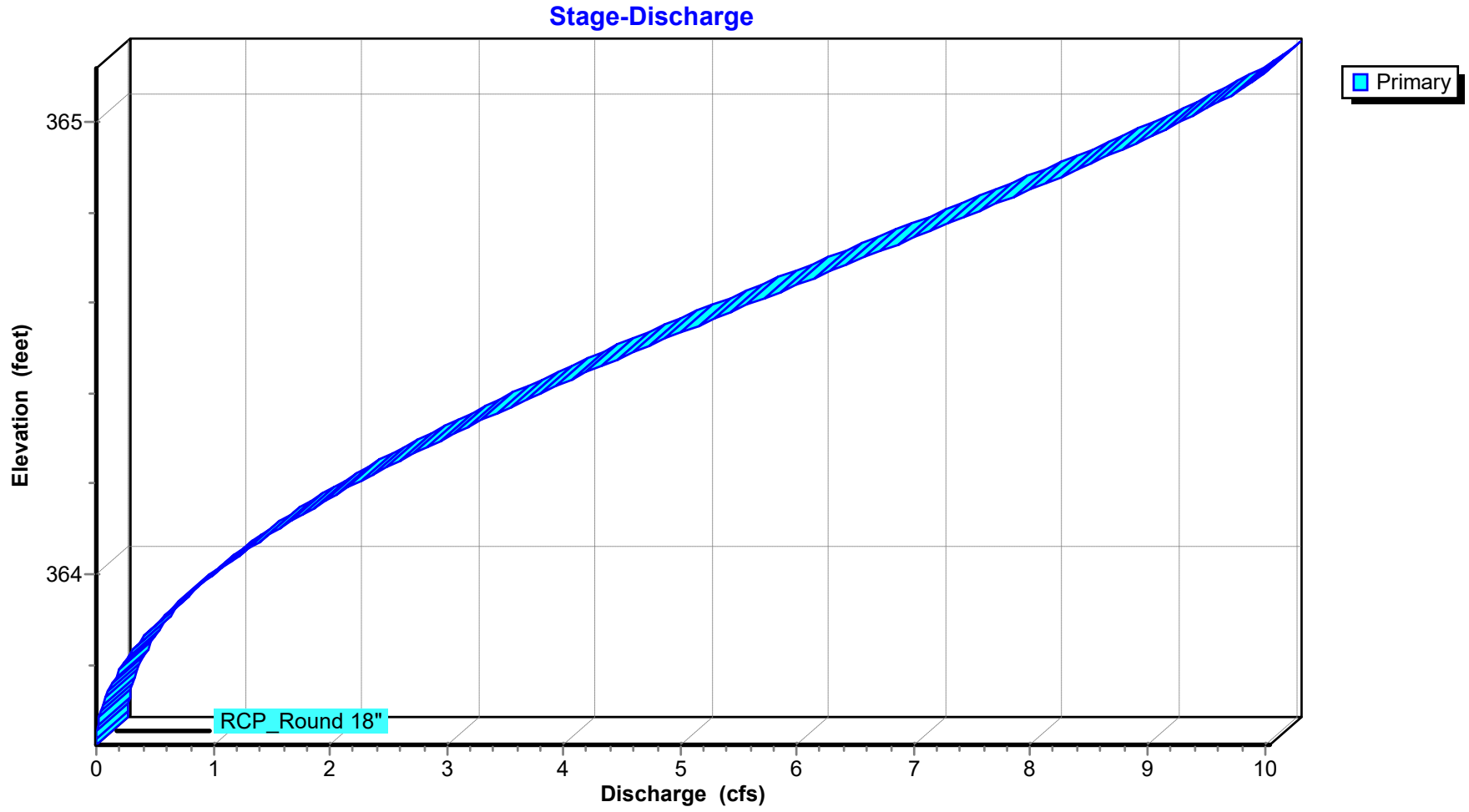
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 0.94" for 5-yr event
Inflow = 6.28 cfs @ 0.15 hrs, Volume= 0.190 af
Outflow = 6.28 cfs @ 0.16 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.6 min
Primary = 6.28 cfs @ 0.16 hrs, Volume= 0.190 af
Routed to Link POST-DEV : Post-Development

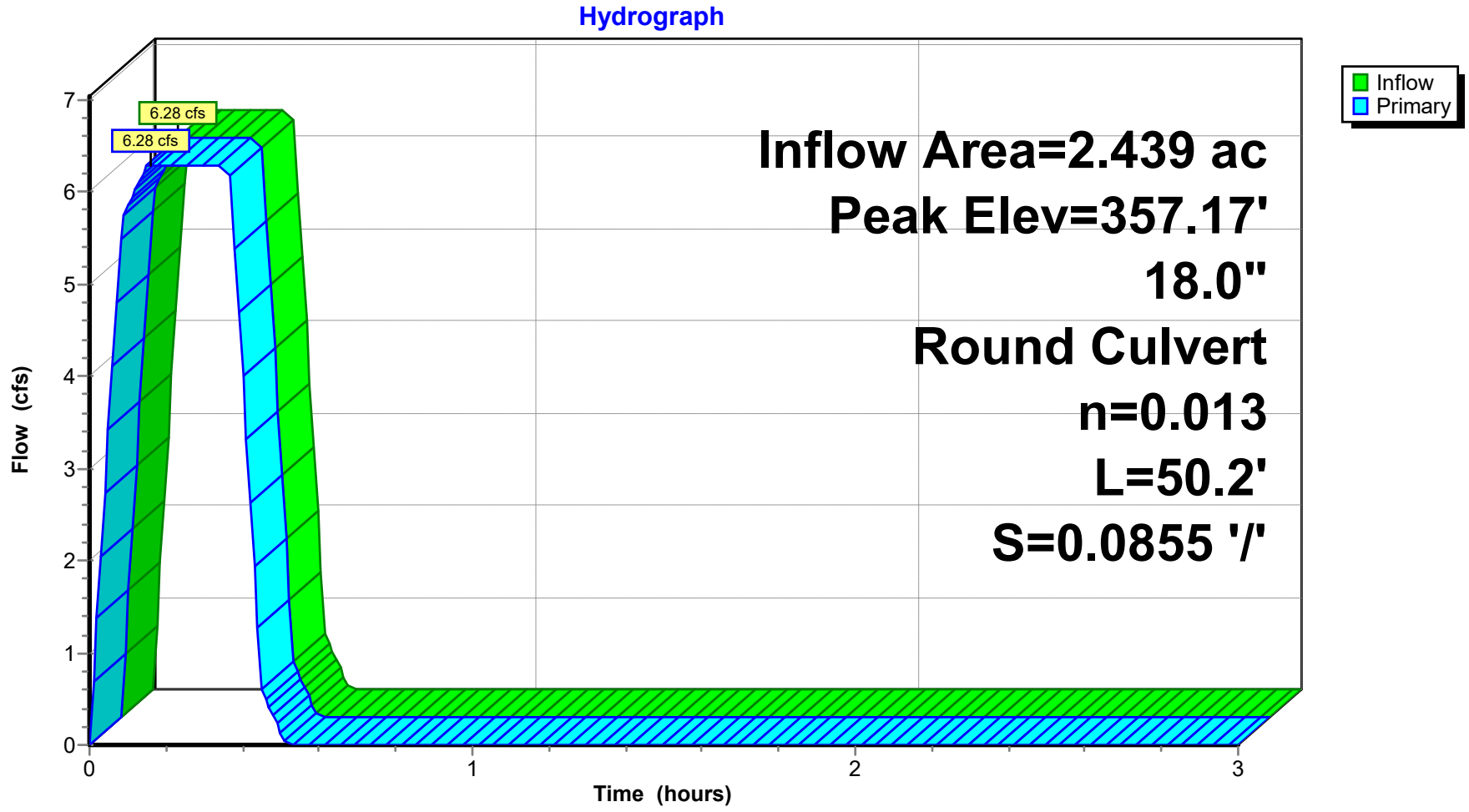
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.17' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=6.28 cfs @ 0.16 hrs HW=357.17' (Free Discharge)
└─**1=RCP_Round 18** (Inlet Controls 6.28 cfs @ 4.76 fps)

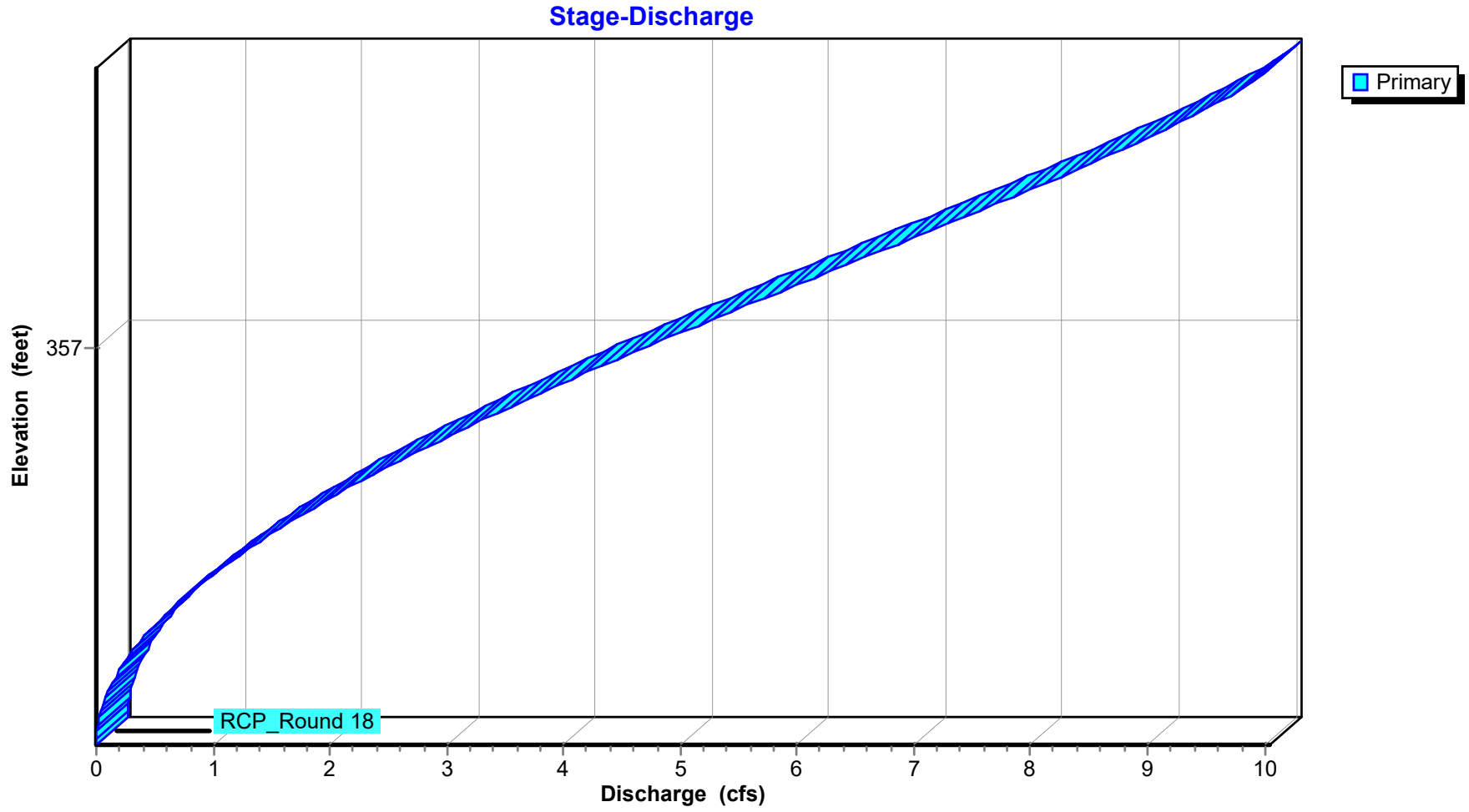
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.82" for 5-yr event
Inflow = 0.47 cfs @ 0.09 hrs, Volume= 0.014 af
Outflow = 0.47 cfs @ 0.10 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.6 min
Primary = 0.47 cfs @ 0.10 hrs, Volume= 0.014 af
Routed to Pond CI-C2 : CURB INLET C2

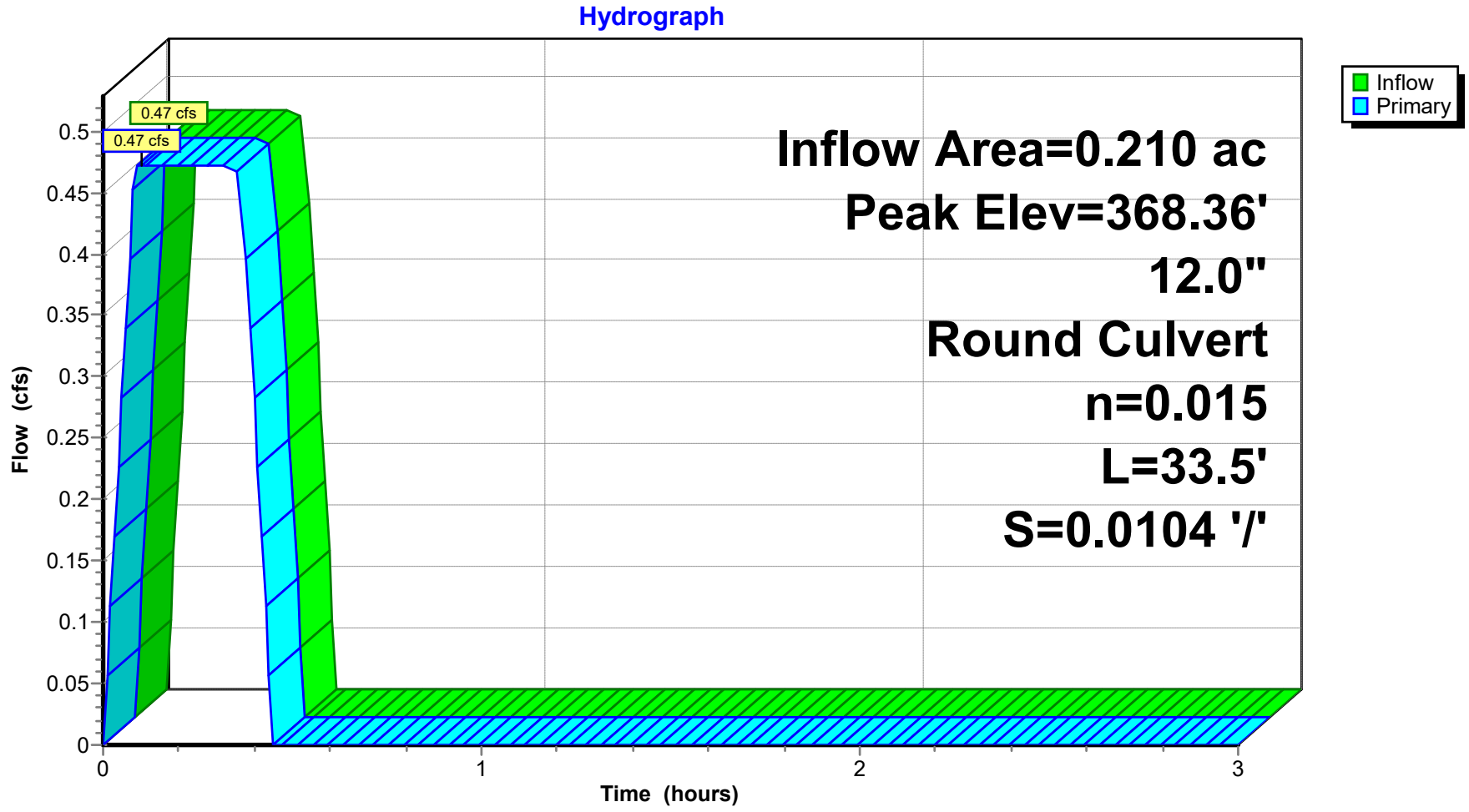
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.36' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 0.10 hrs HW=368.36' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.47 cfs @ 2.76 fps)

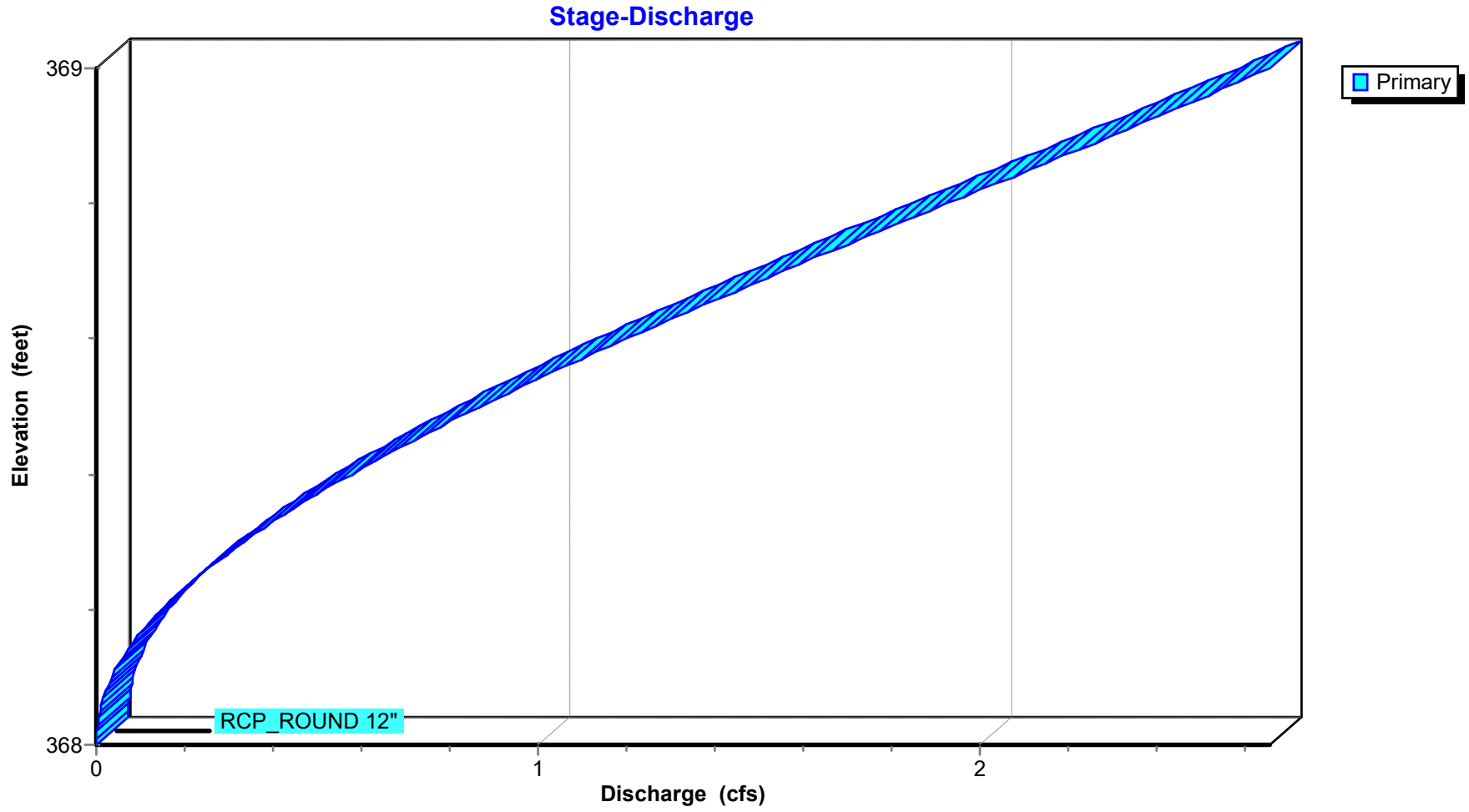
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.81" for 5-yr event
Inflow = 0.55 cfs @ 0.10 hrs, Volume= 0.017 af
Outflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Routed to Pond JB-C3 : JUNCTION BOX C3

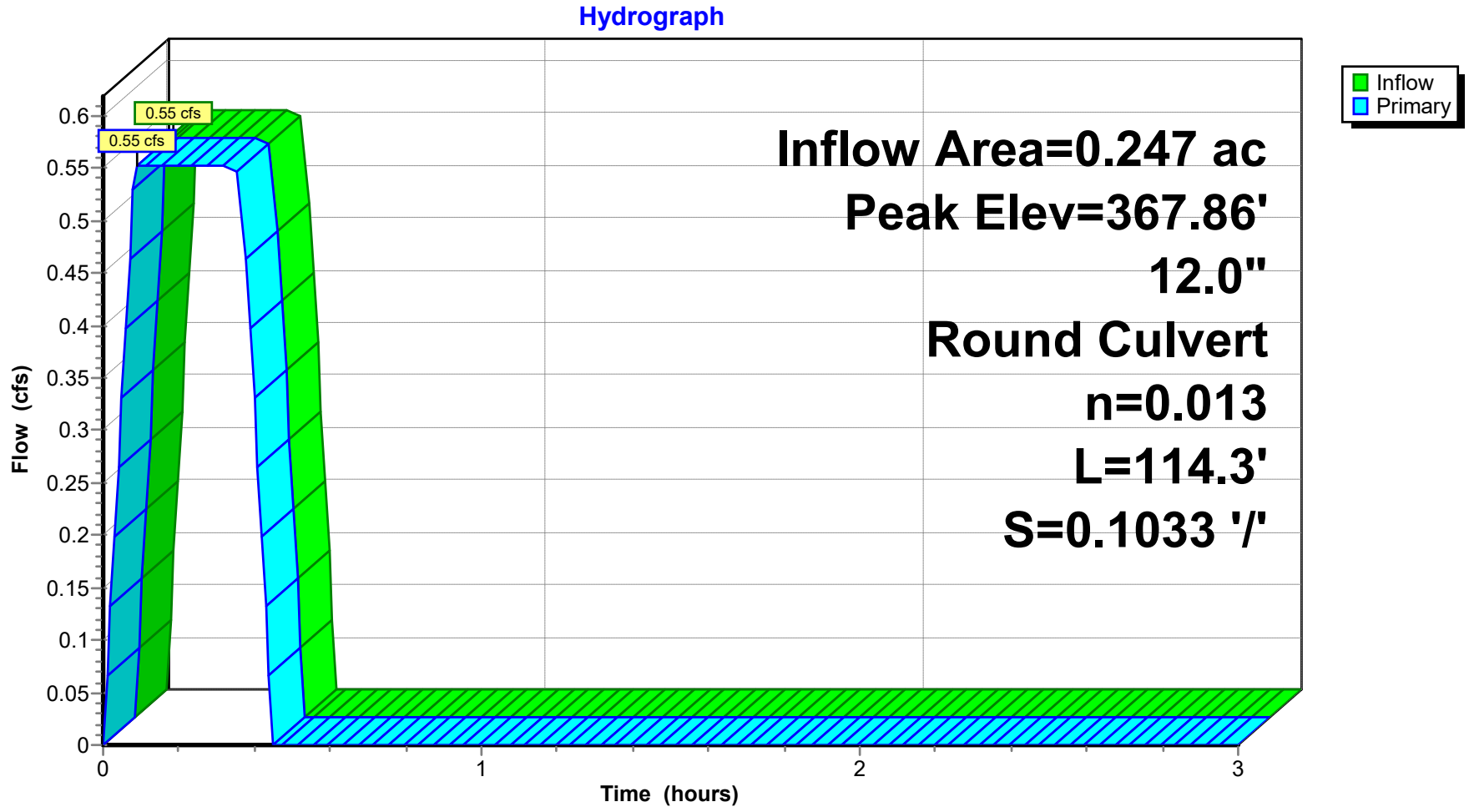
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.86' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 0.09 hrs HW=367.86' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 0.55 cfs @ 2.61 fps)

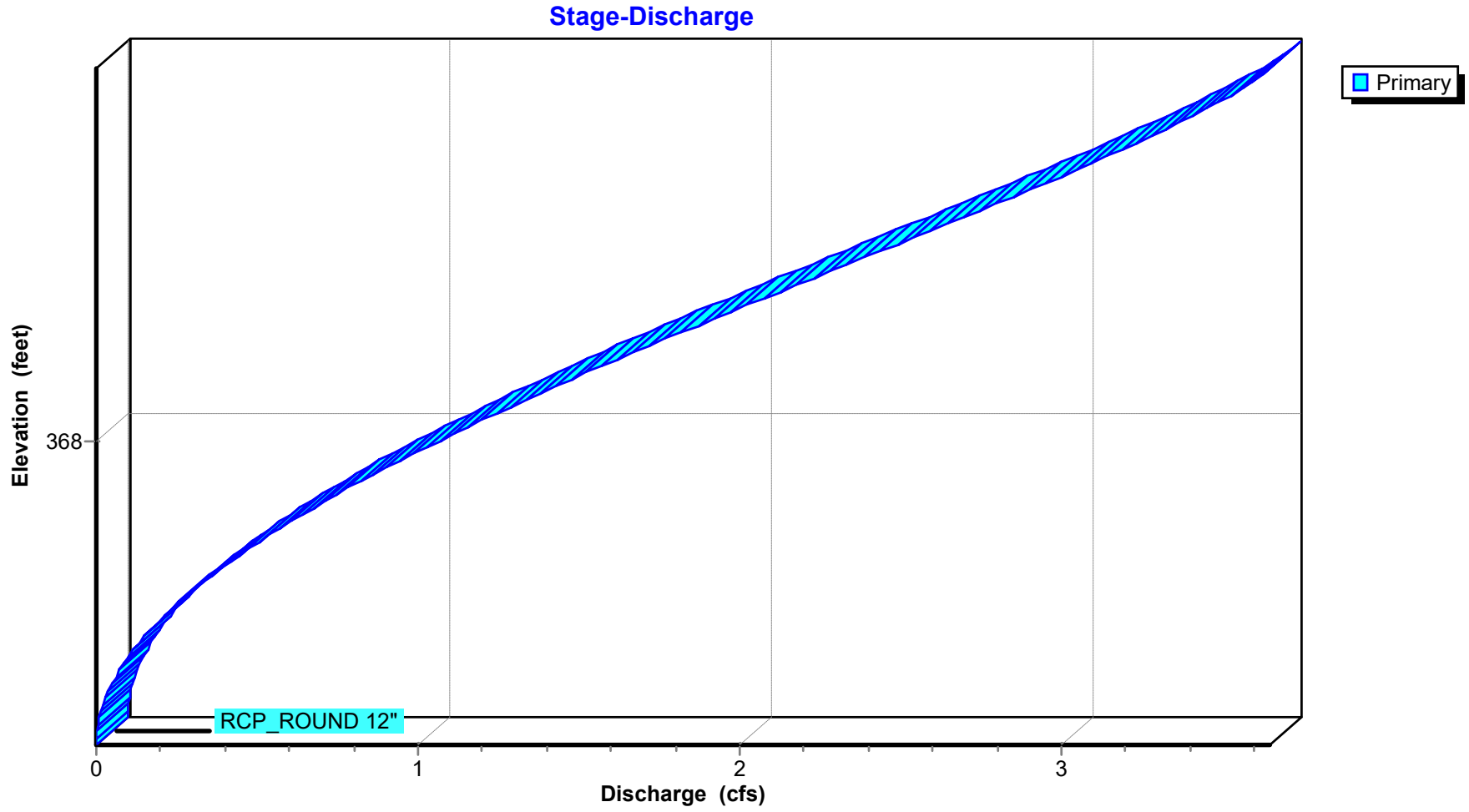
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.55	**0.000**	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000	368.54	0.000
367.63	0.000	368.55	0.000
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		
367.95	0.000		
367.96	0.000		
367.97	0.000		
367.98	0.000		
367.99	0.000		
368.00	0.000		
368.01	0.000		
368.02	0.000		
368.03	0.000		
368.04	0.000		
368.05	0.000		
368.06	0.000		
368.07	0.000		
368.08	0.000		
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.82" for 5-yr event
Inflow = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af
Outflow = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 2.17 cfs @ 0.09 hrs, Volume= 0.066 af
Routed to Pond CI-C5 : CURB INLET C5

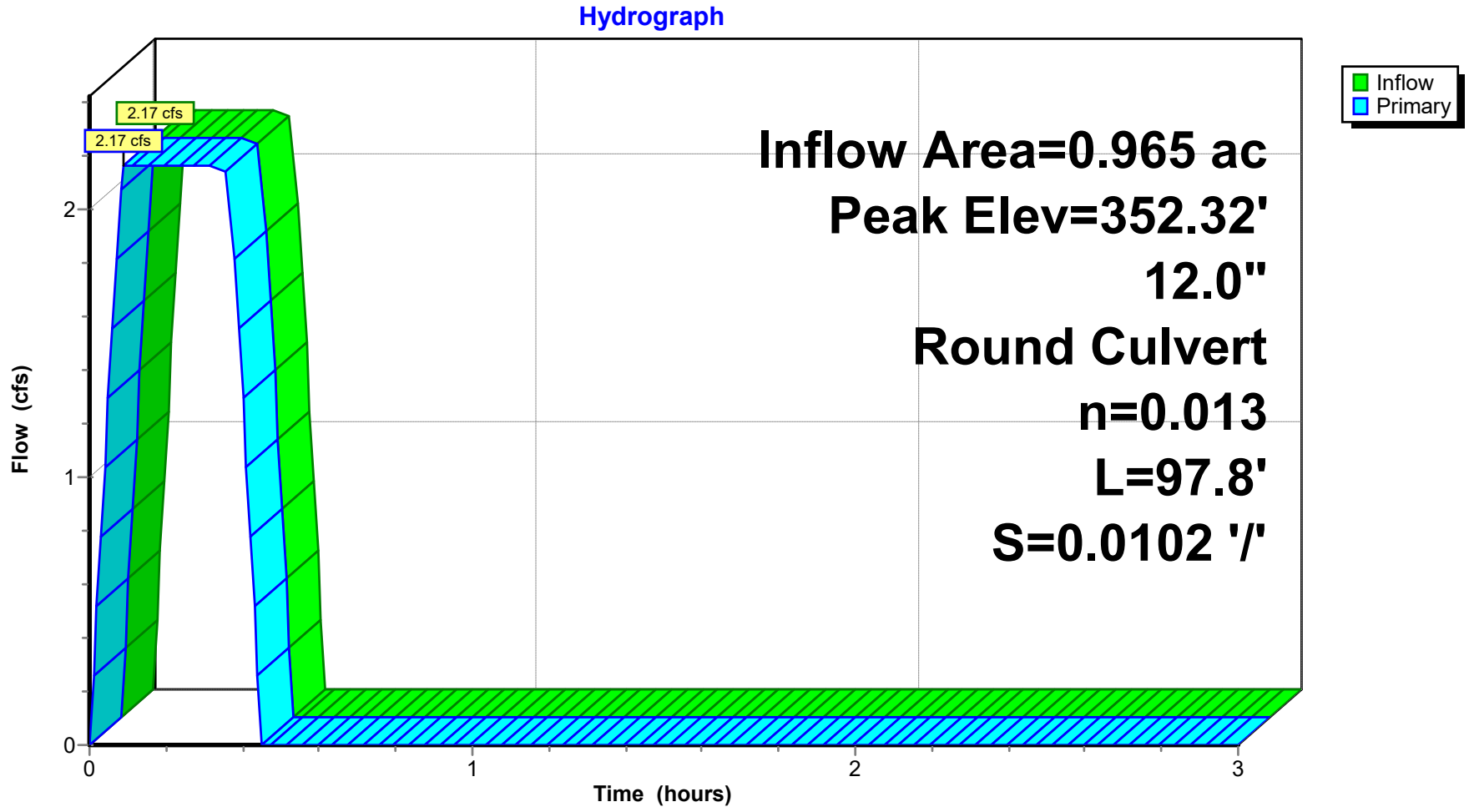
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.32' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.17 cfs @ 0.09 hrs HW=352.32' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 2.17 cfs @ 4.50 fps)

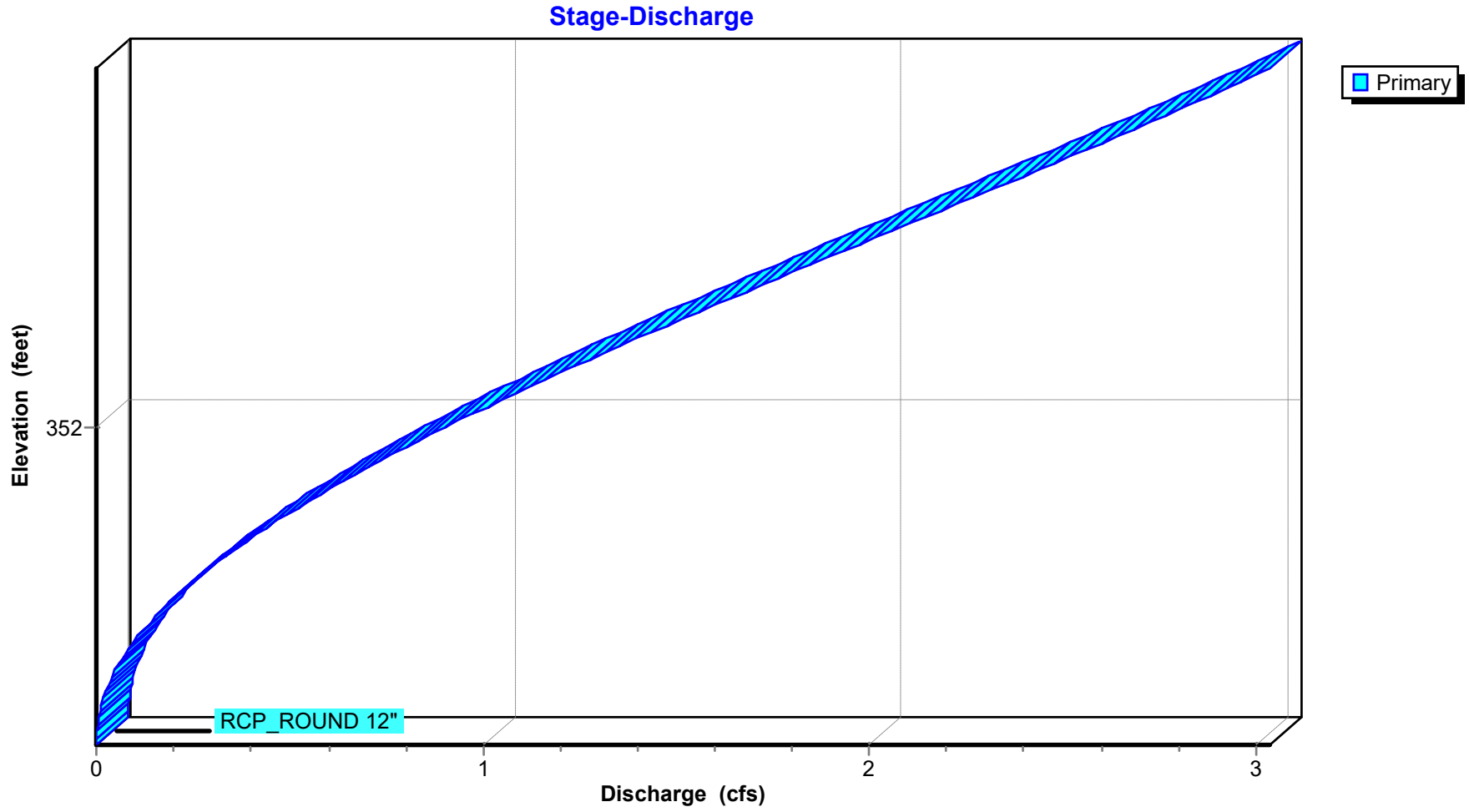
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000		
351.63	0.000		
351.64	0.000		
351.65	0.000		
351.66	0.000		
351.67	0.000		
351.68	0.000		
351.69	0.000		
351.70	0.000		
351.71	0.000		
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.79" for 5-yr event
Inflow = 3.12 cfs @ 0.09 hrs, Volume= 0.095 af
Outflow = 3.12 cfs @ 0.10 hrs, Volume= 0.095 af, Atten= 0%, Lag= 0.6 min
Primary = 3.12 cfs @ 0.10 hrs, Volume= 0.095 af
Routed to Link POST-DEV : Post-Development

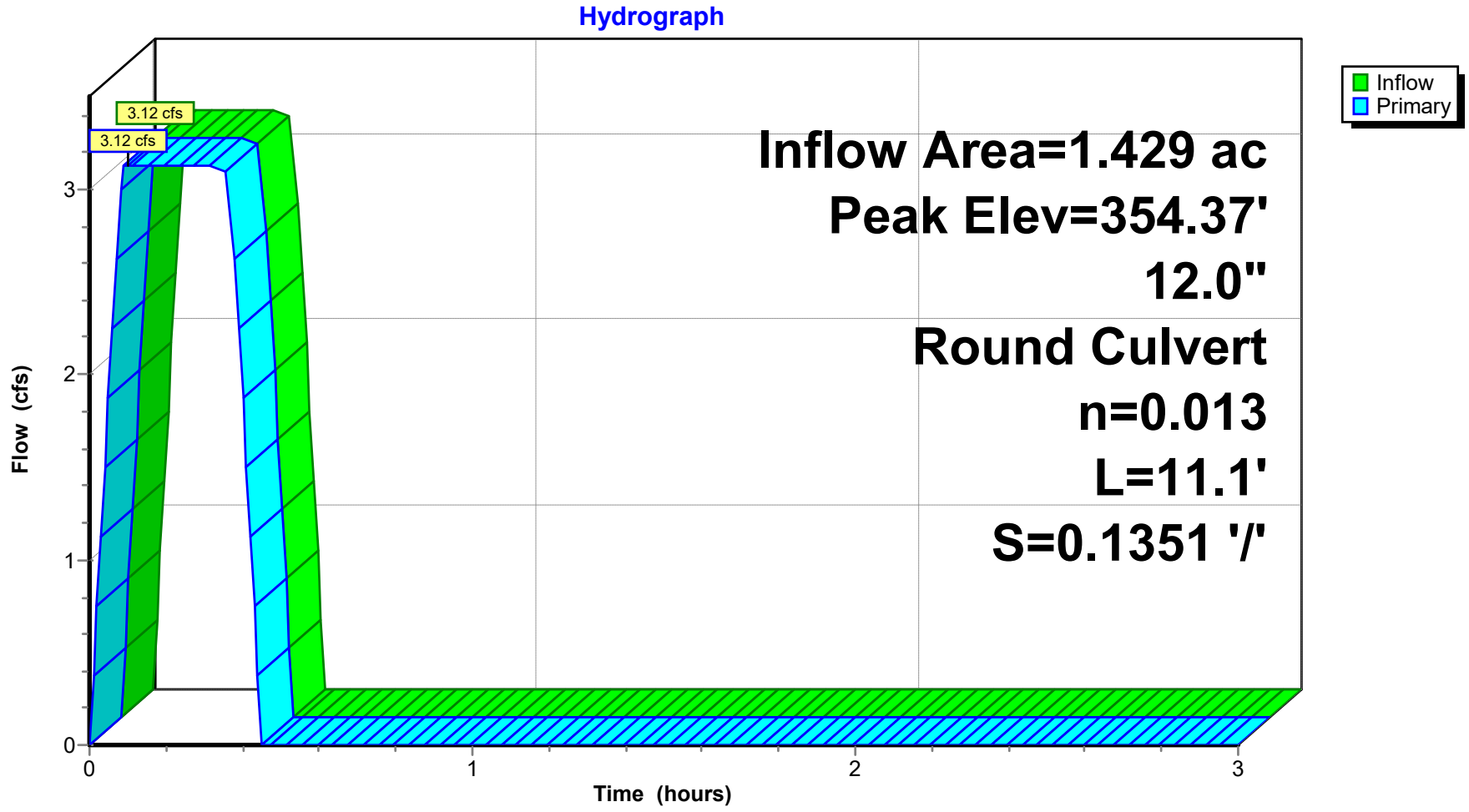
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.37' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.12 cfs @ 0.10 hrs HW=354.37' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 3.12 cfs @ 4.32 fps)

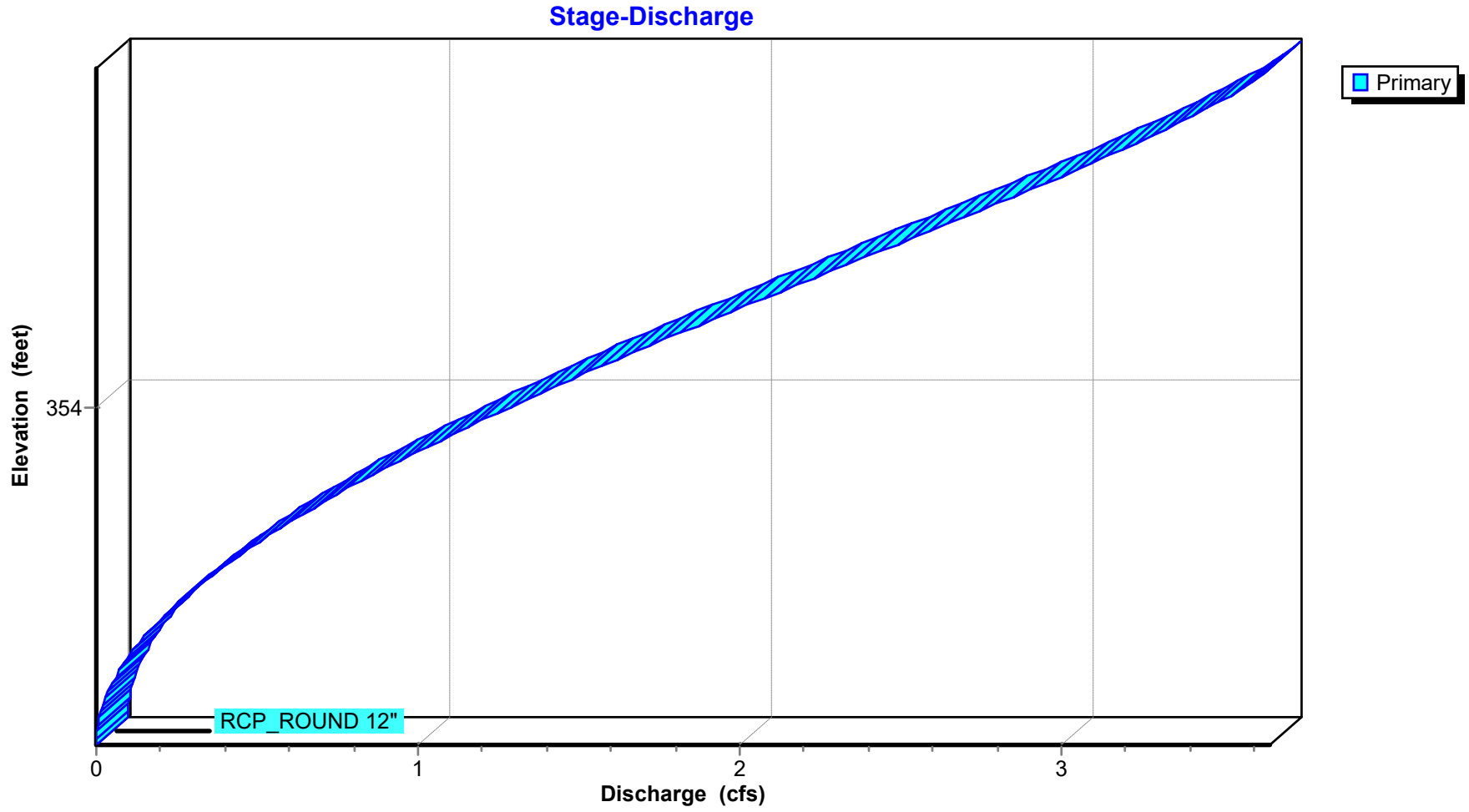
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000		
353.60	0.000		
353.61	0.000		
353.62	0.000		
353.63	0.000		
353.64	0.000		
353.65	0.000		
353.66	0.000		
353.67	0.000		
353.68	0.000		
353.69	0.000		
353.70	0.000		
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
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354.13	0.000		
354.14	0.000		
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354.19	0.000		
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354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.79" for 5-yr event
Inflow = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af
Outflow = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.36 cfs @ 0.09 hrs, Volume= 0.041 af
Routed to Pond CI-C4 : CURB INLET C4

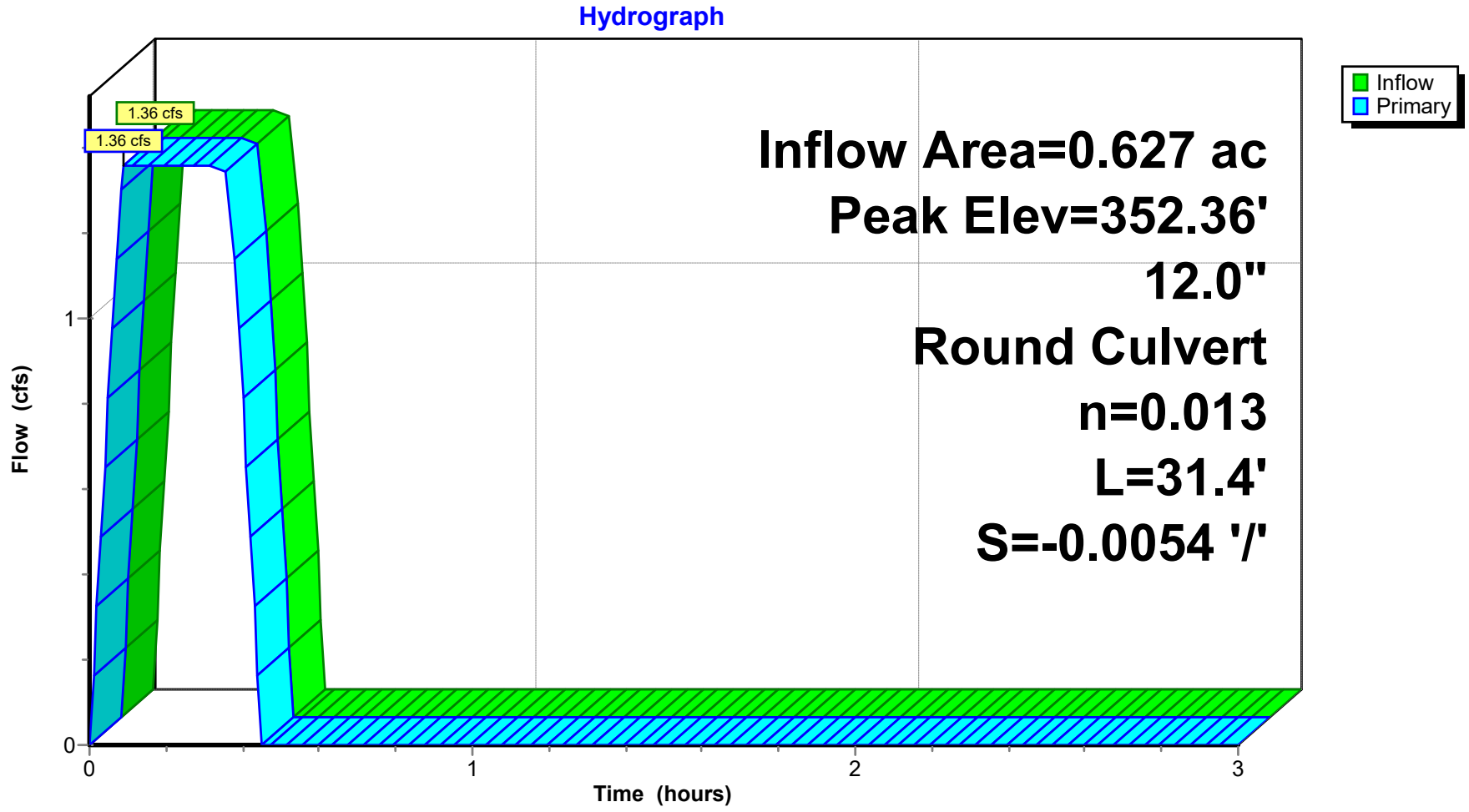
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.36' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.36 cfs @ 0.09 hrs HW=352.36' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 1.36 cfs @ 2.63 fps)

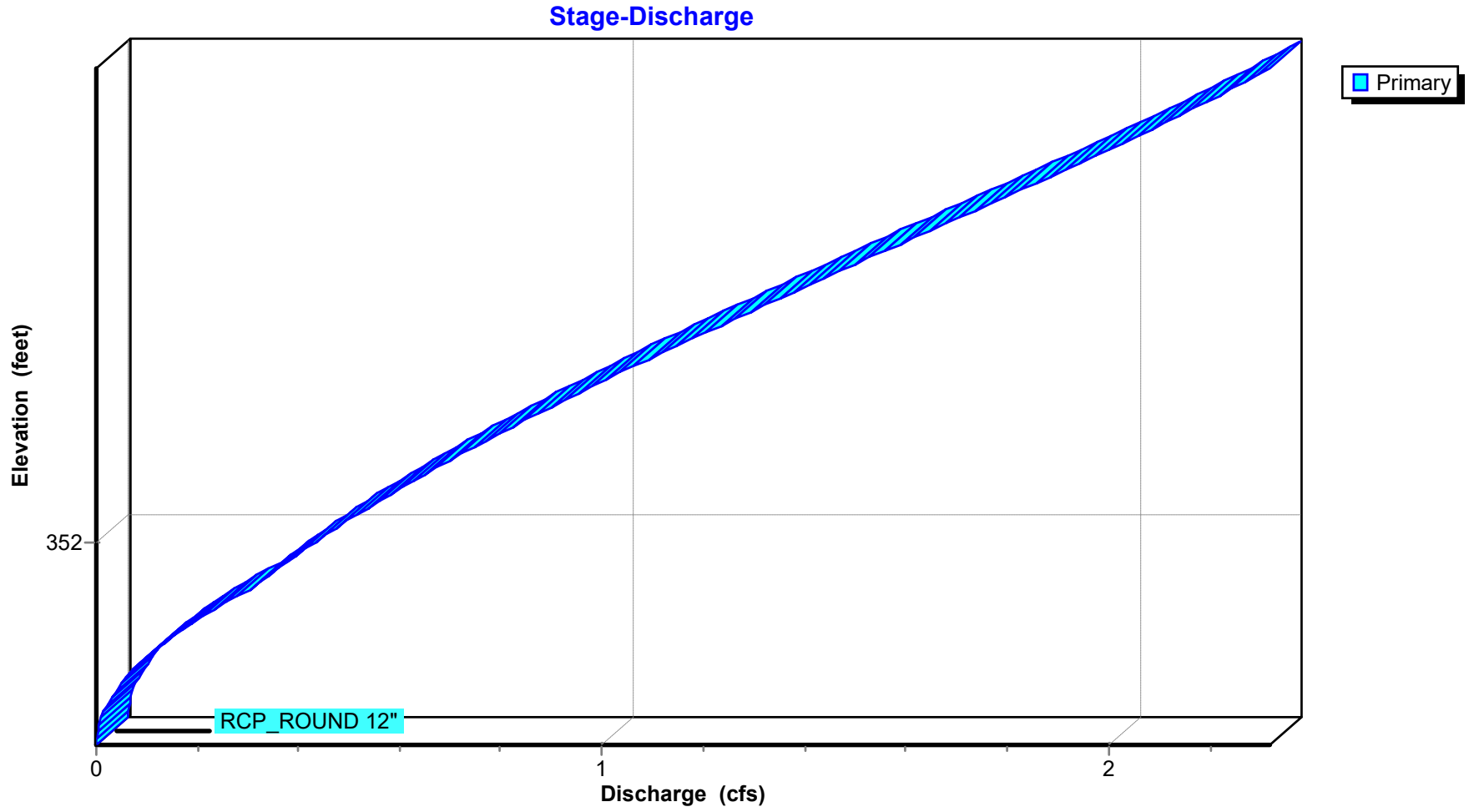
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.81" for 5-yr event
Inflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Outflow = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 0.09 hrs, Volume= 0.017 af
Routed to Pond CI-C4 : CURB INLET C4

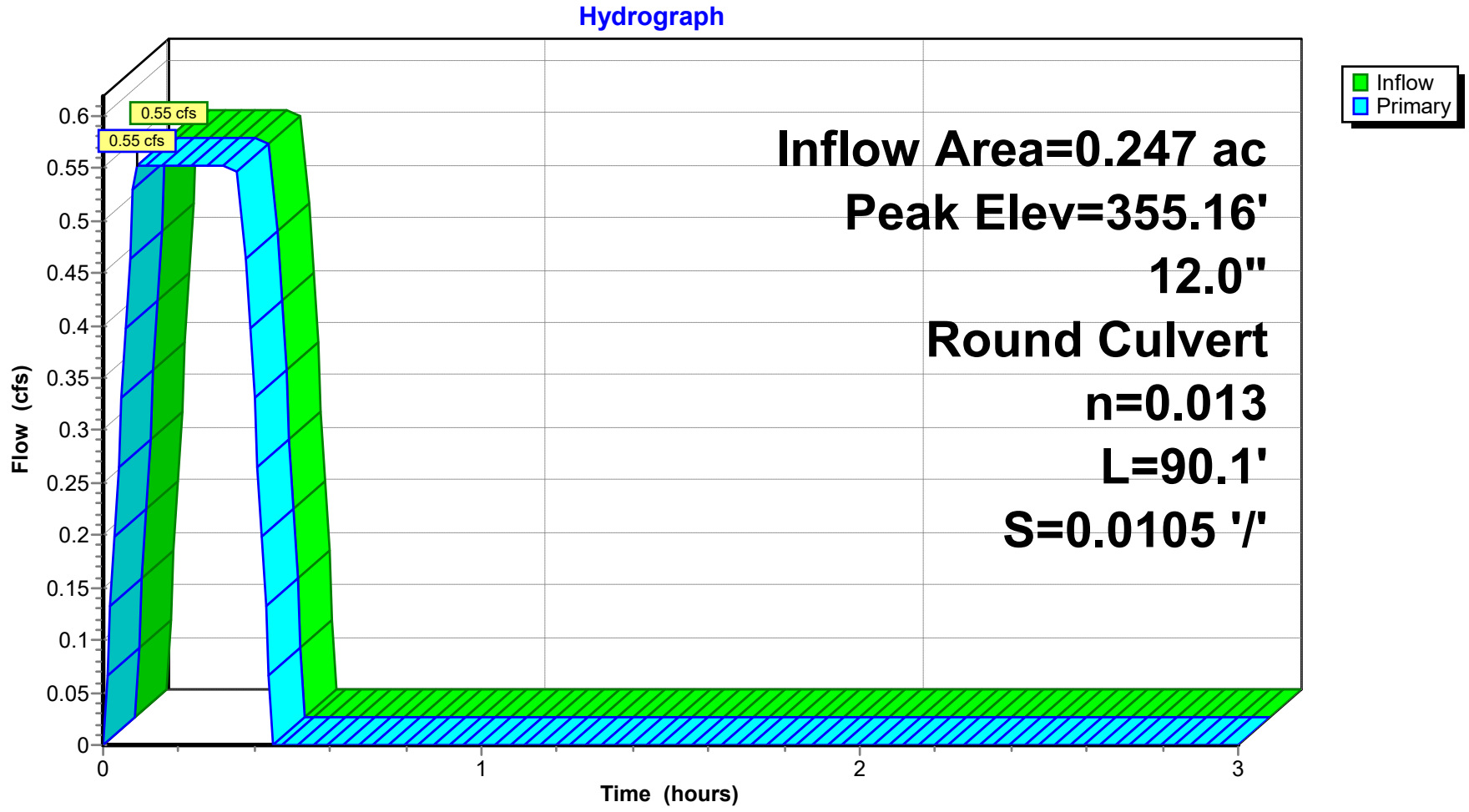
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.16' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 0.09 hrs HW=355.16' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.55 cfs @ 3.24 fps)

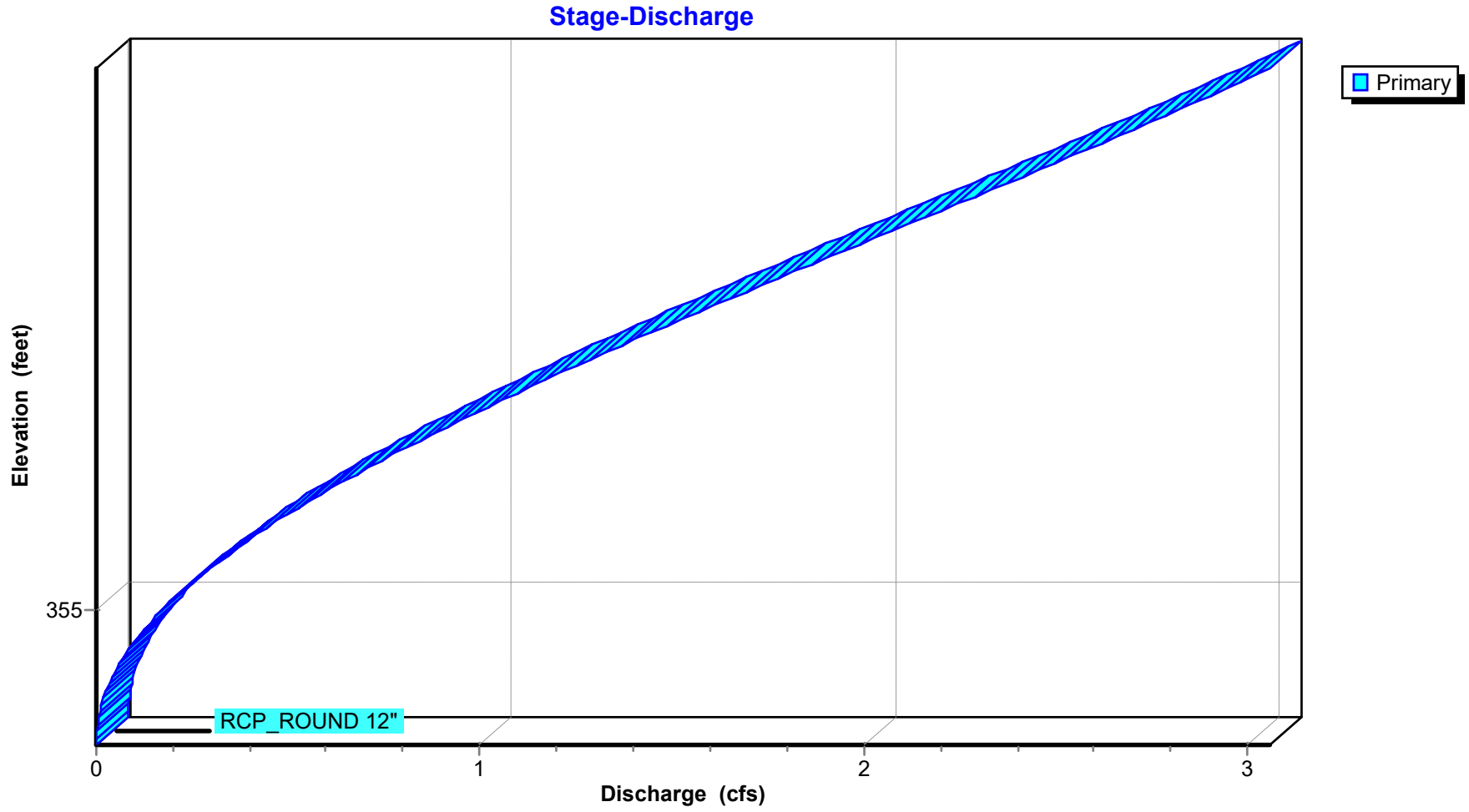
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

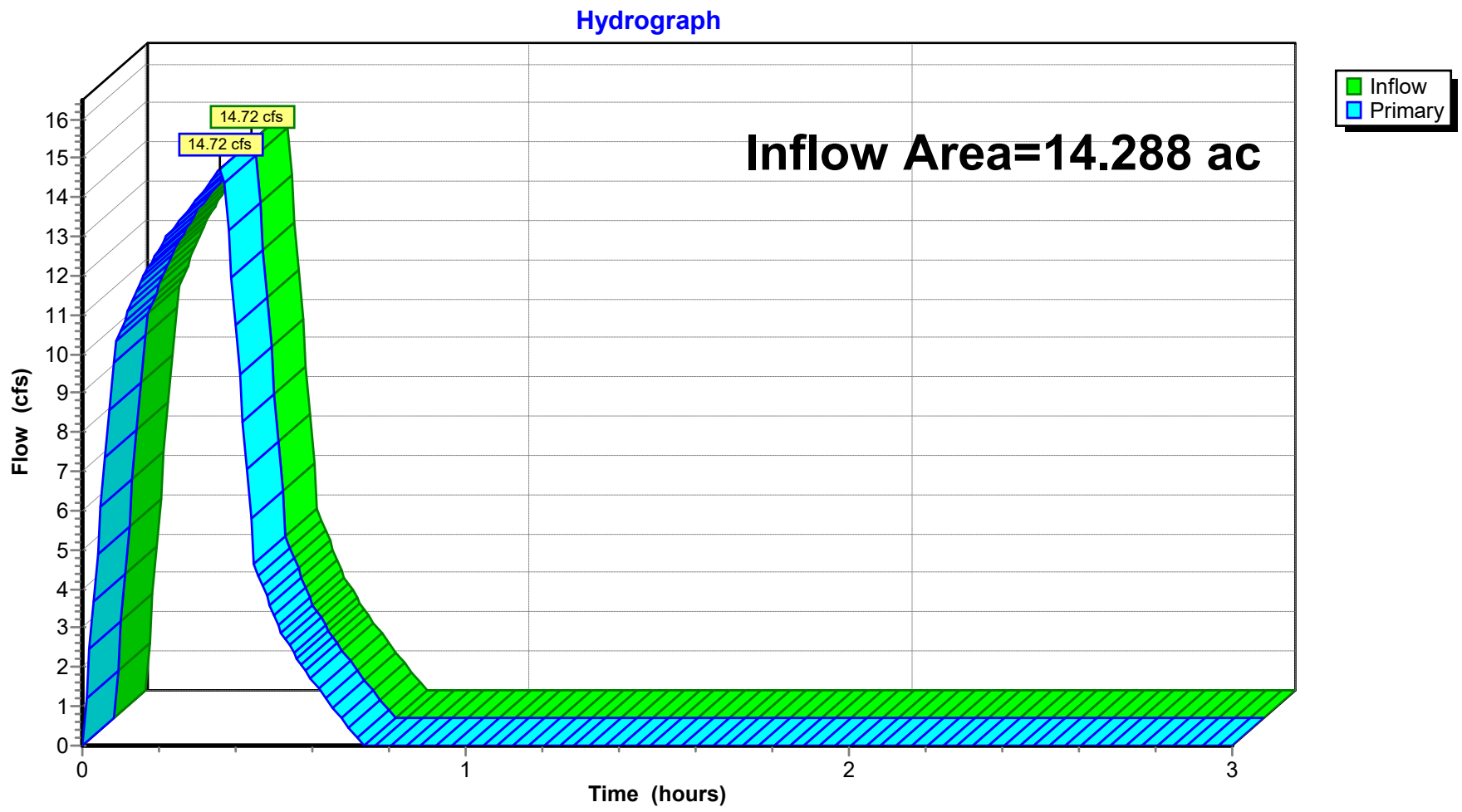
Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.38" for 5-yr event
Inflow = 14.72 cfs @ 0.36 hrs, Volume= 0.448 af
Primary = 14.72 cfs @ 0.36 hrs, Volume= 0.448 af, Atten= 0%, Lag= 0.0 min

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

Link POST-DEV: Post-Development



Summary for Subcatchment DB-B1: Drainage Basin B1

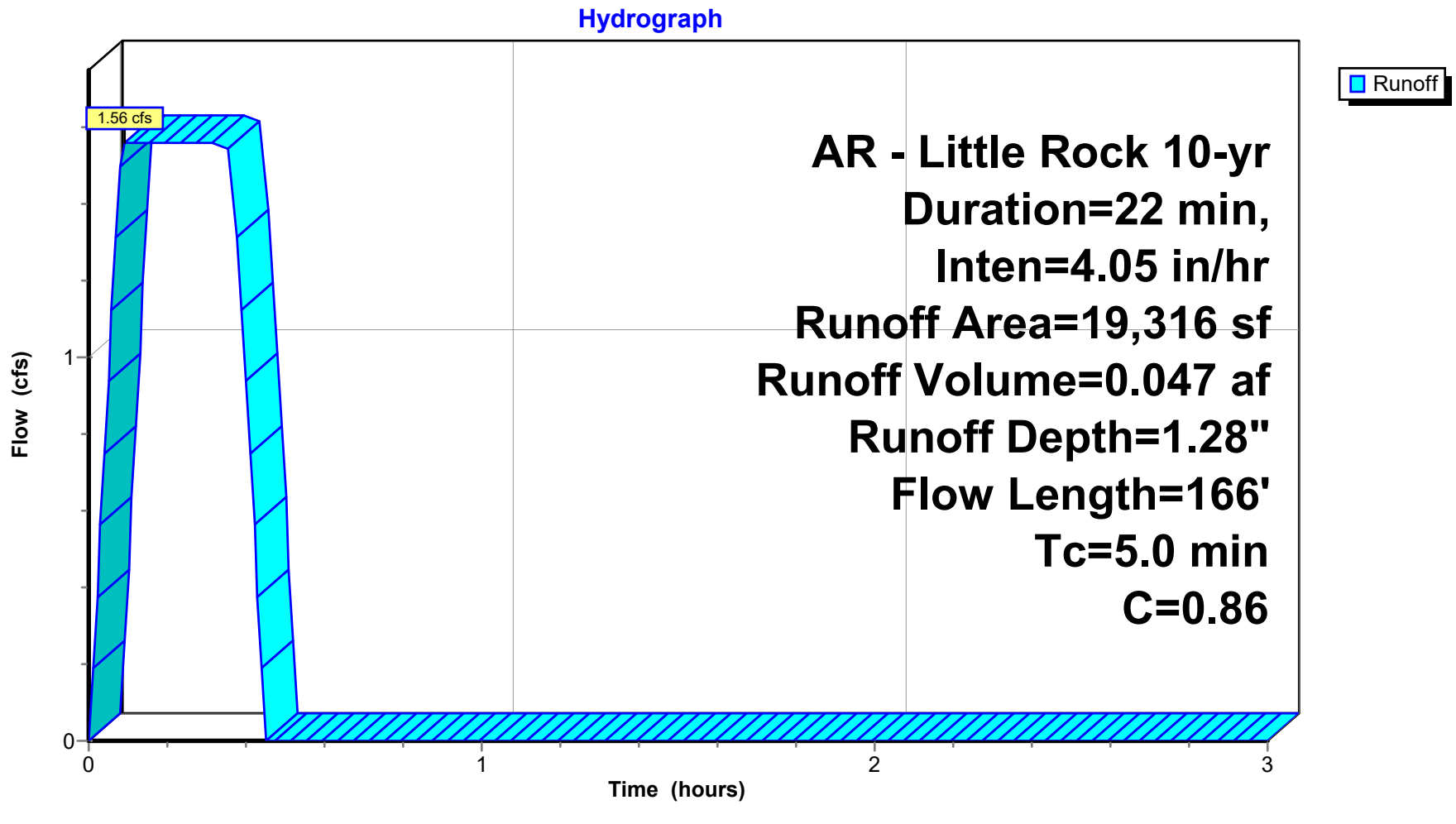
Runoff = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 1.28"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace**
					Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			

Subcatchment DB-B1: Drainage Basin B1



Summary for Subcatchment DB-B10: Drainage Basin B10

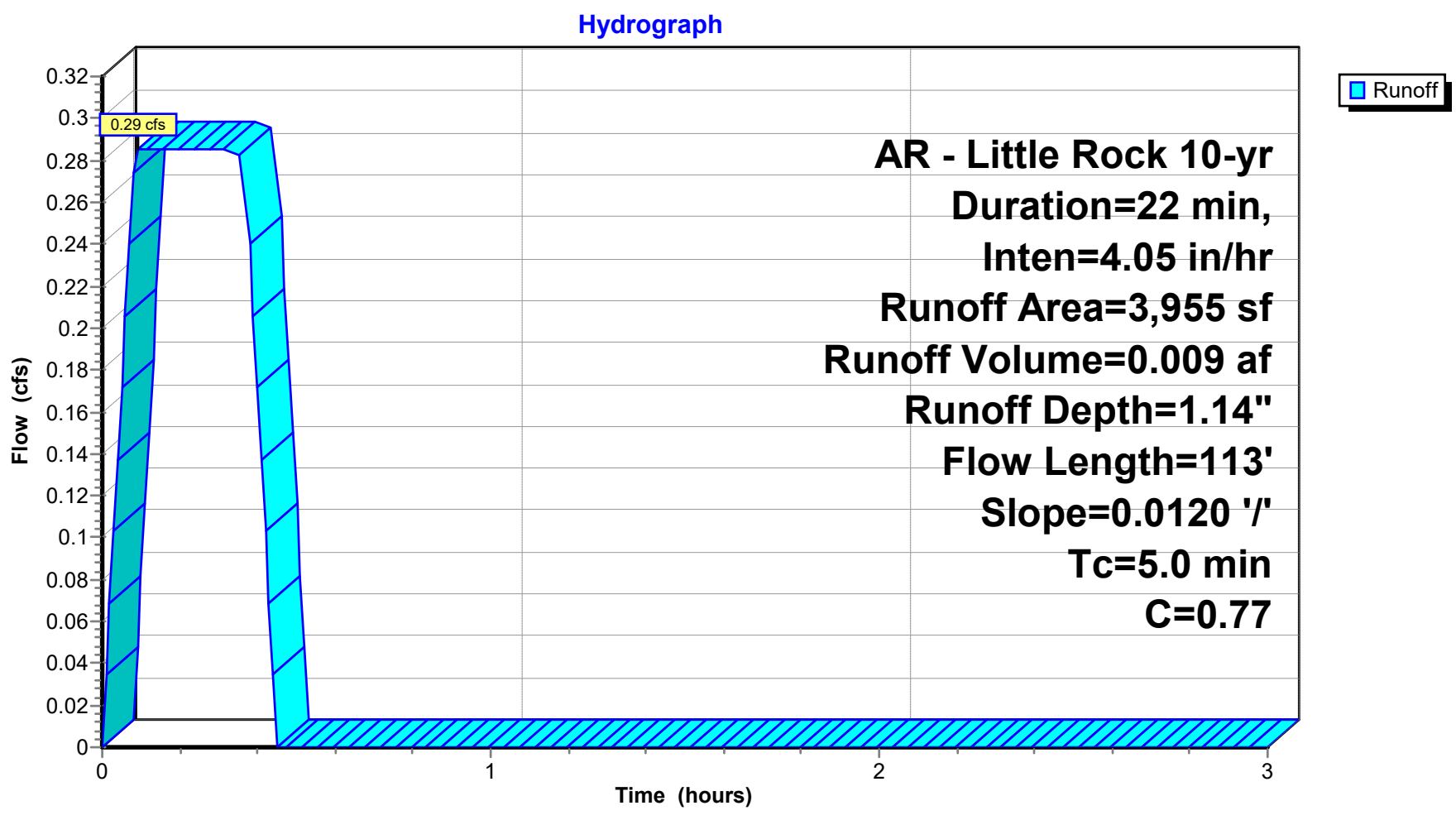
Runoff = 0.29 cfs @ 0.09 hrs, Volume= 0.009 af, Depth= 1.14"
Routed to Pond CI-C4 : CURB INLET C4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10



Summary for Subcatchment DB-B11: Drainage Basin B11

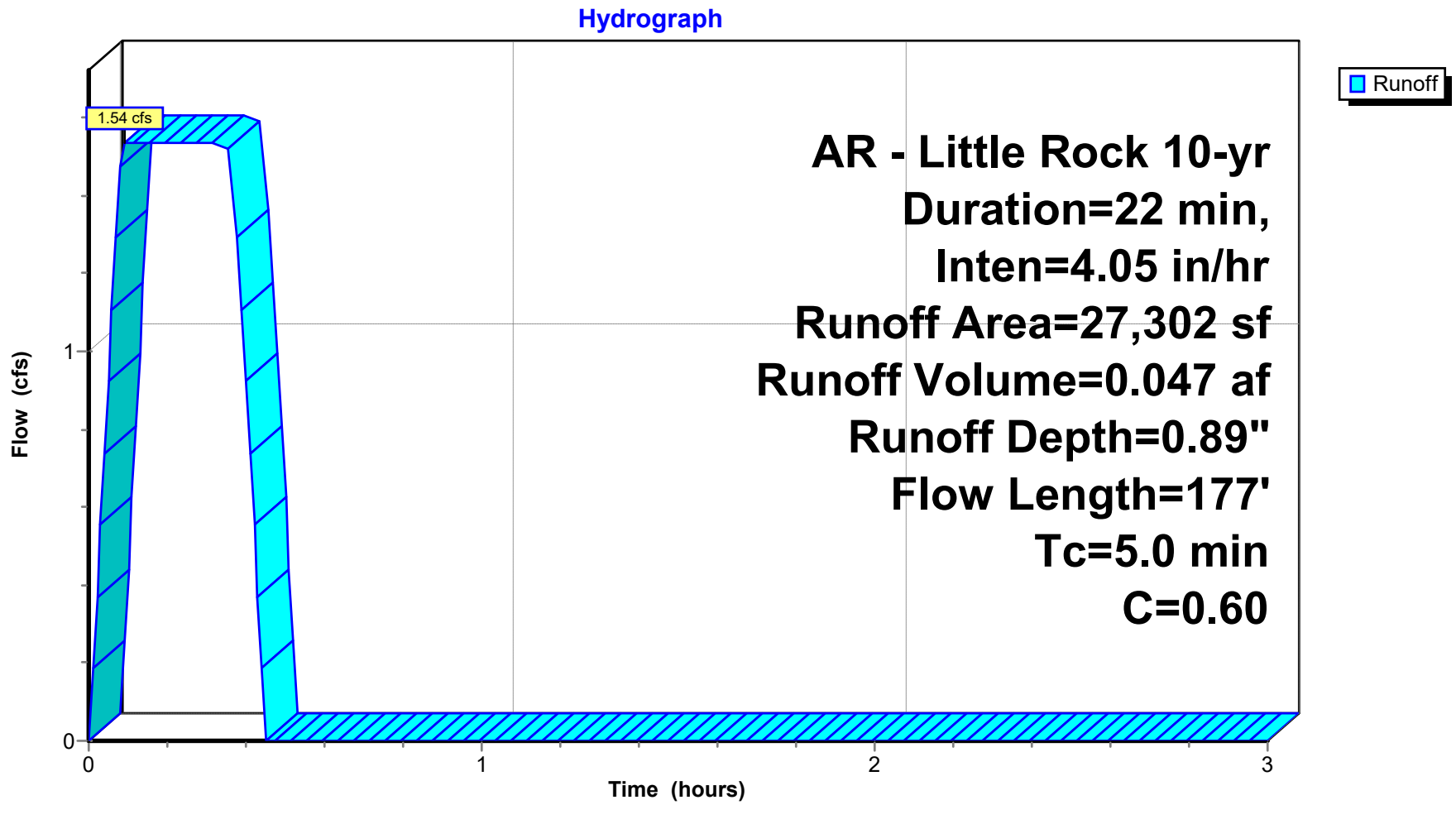
Runoff = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af, Depth= 0.89"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof**
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace**
					Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			

Subcatchment DB-B11: Drainage Basin B11



Summary for Subcatchment DB-B12: Drainage Basin B12

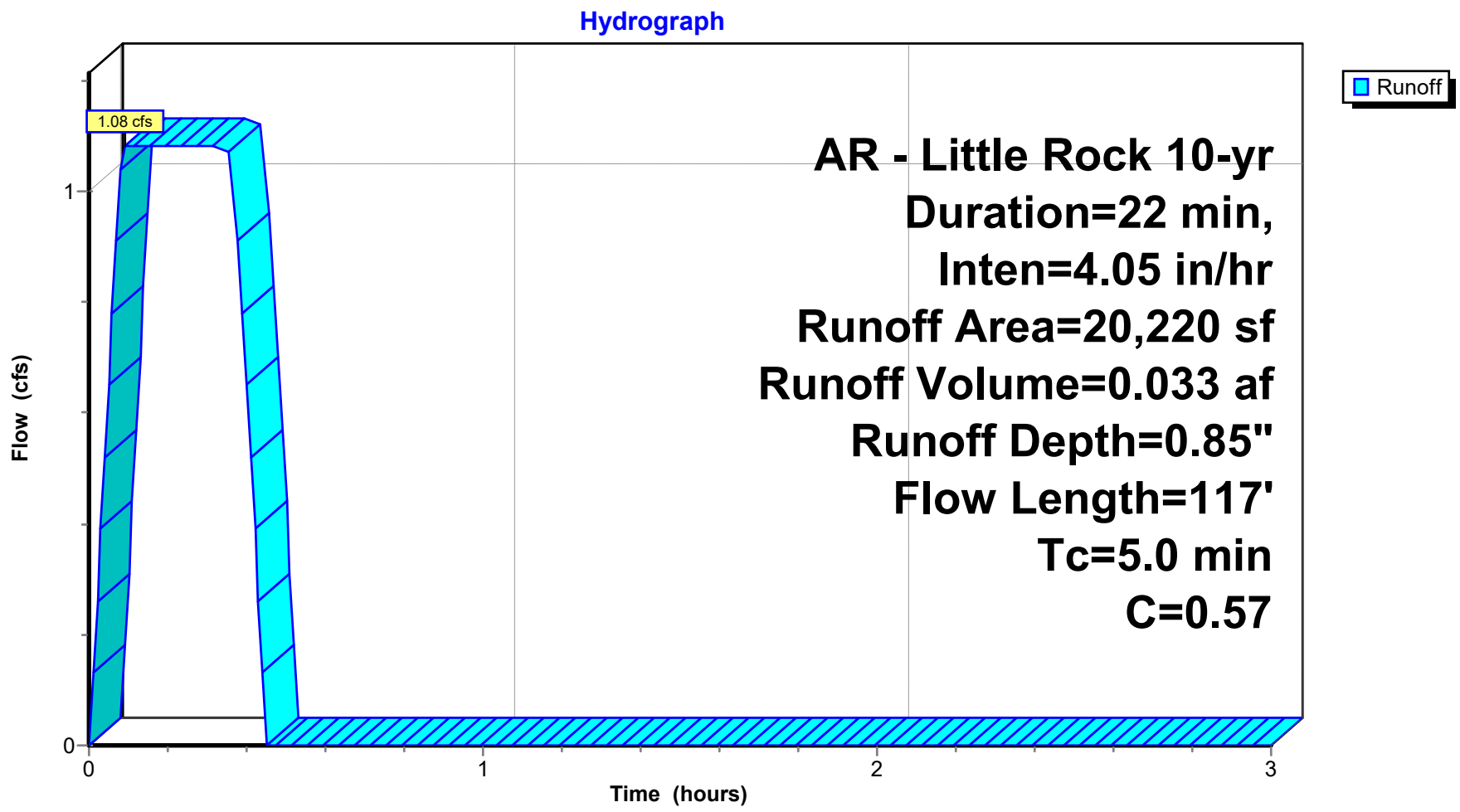
Runoff = 1.08 cfs @ 0.09 hrs, Volume= 0.033 af, Depth= 0.85"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			

Subcatchment DB-B12: Drainage Basin B12



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

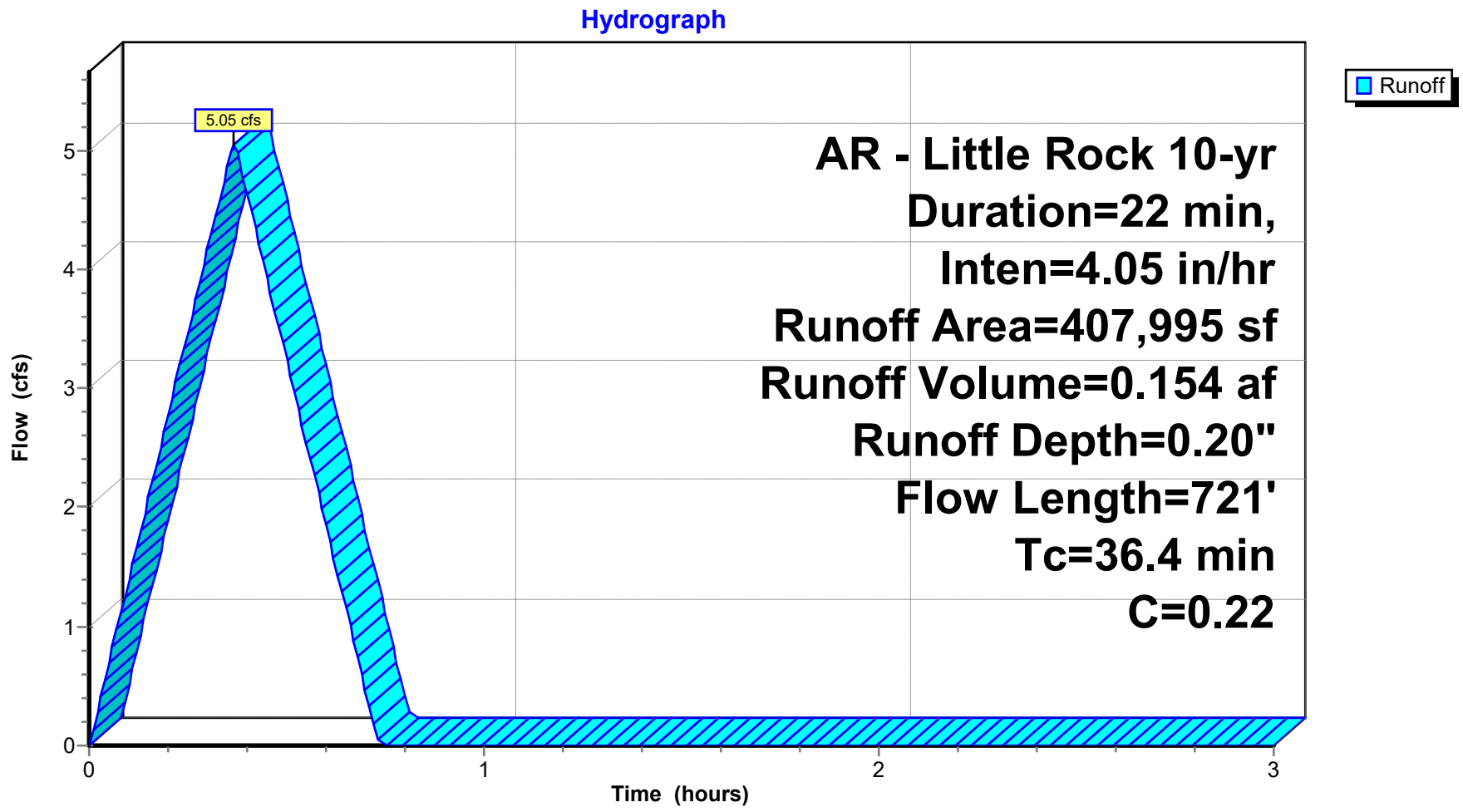
Runoff = 5.05 cfs @ 0.37 hrs, Volume= 0.154 af, Depth= 0.20"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13



Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

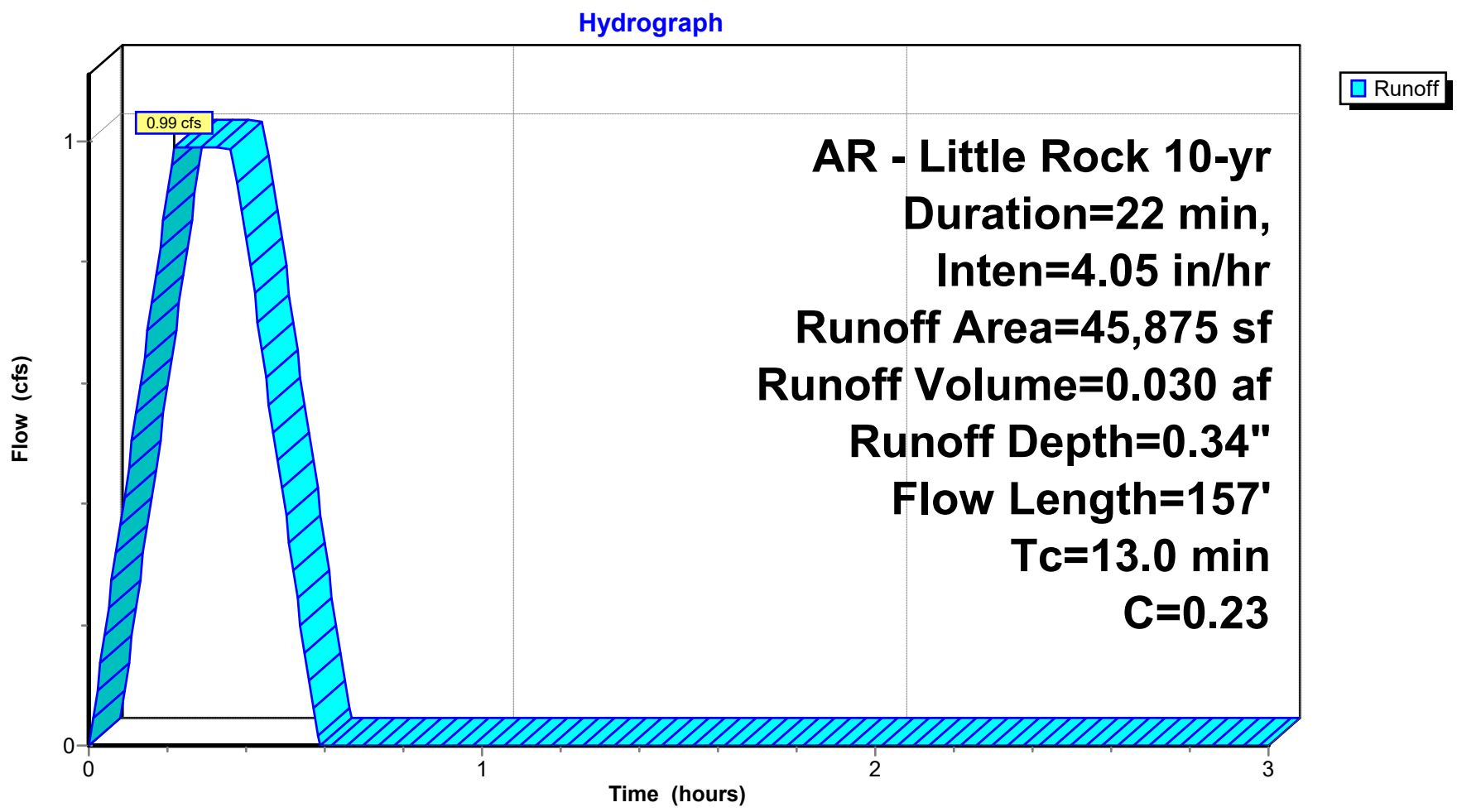
Runoff = 0.99 cfs @ 0.22 hrs, Volume= 0.030 af, Depth= 0.34"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			

Subcatchment DB-B14: DRAINAGE BASIN B14



Summary for Subcatchment DB-B2: Drainage Basin B2

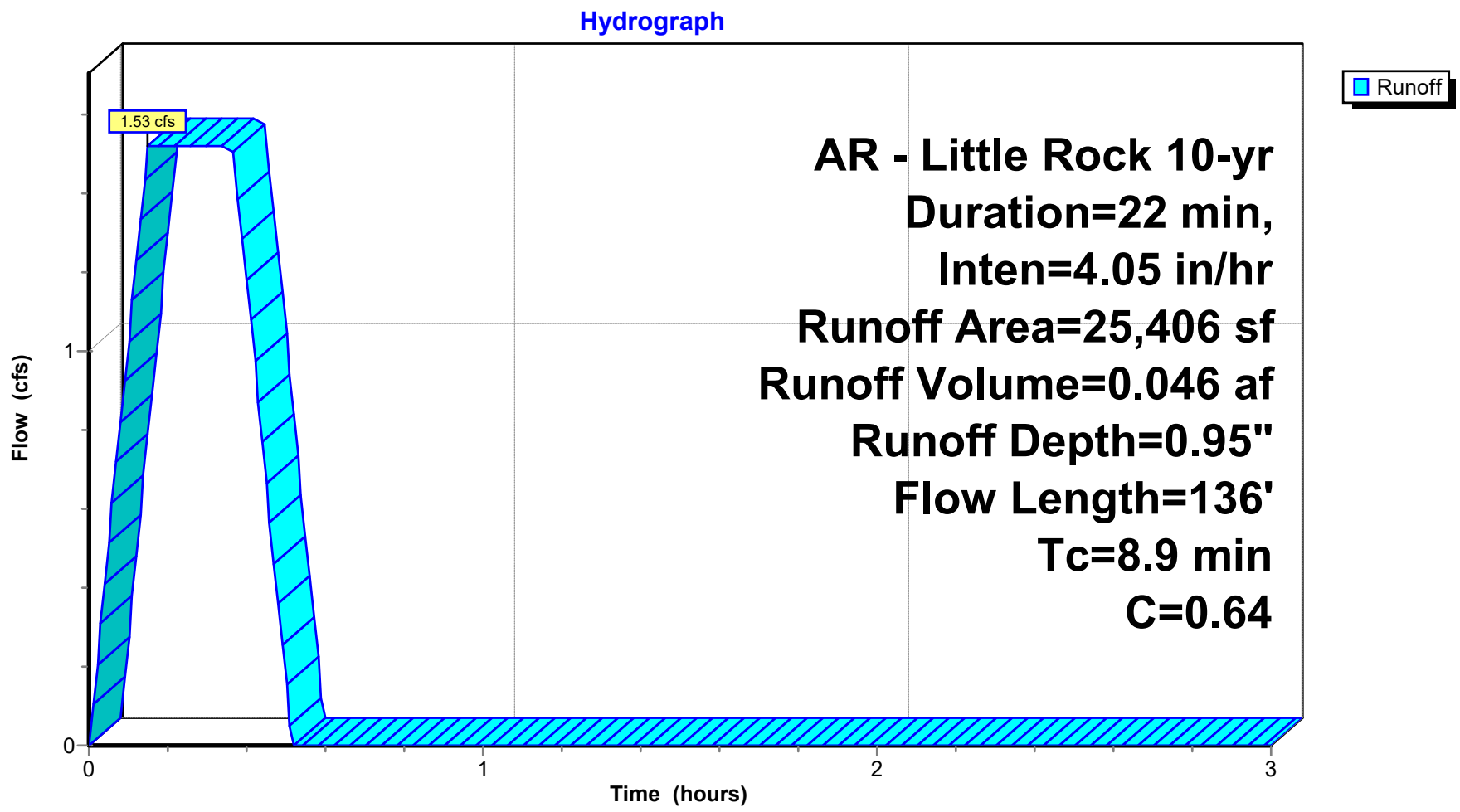
Runoff = 1.53 cfs @ 0.15 hrs, Volume= 0.046 af, Depth= 0.95"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



Summary for Subcatchment DB-B3: Drainage Basin B3

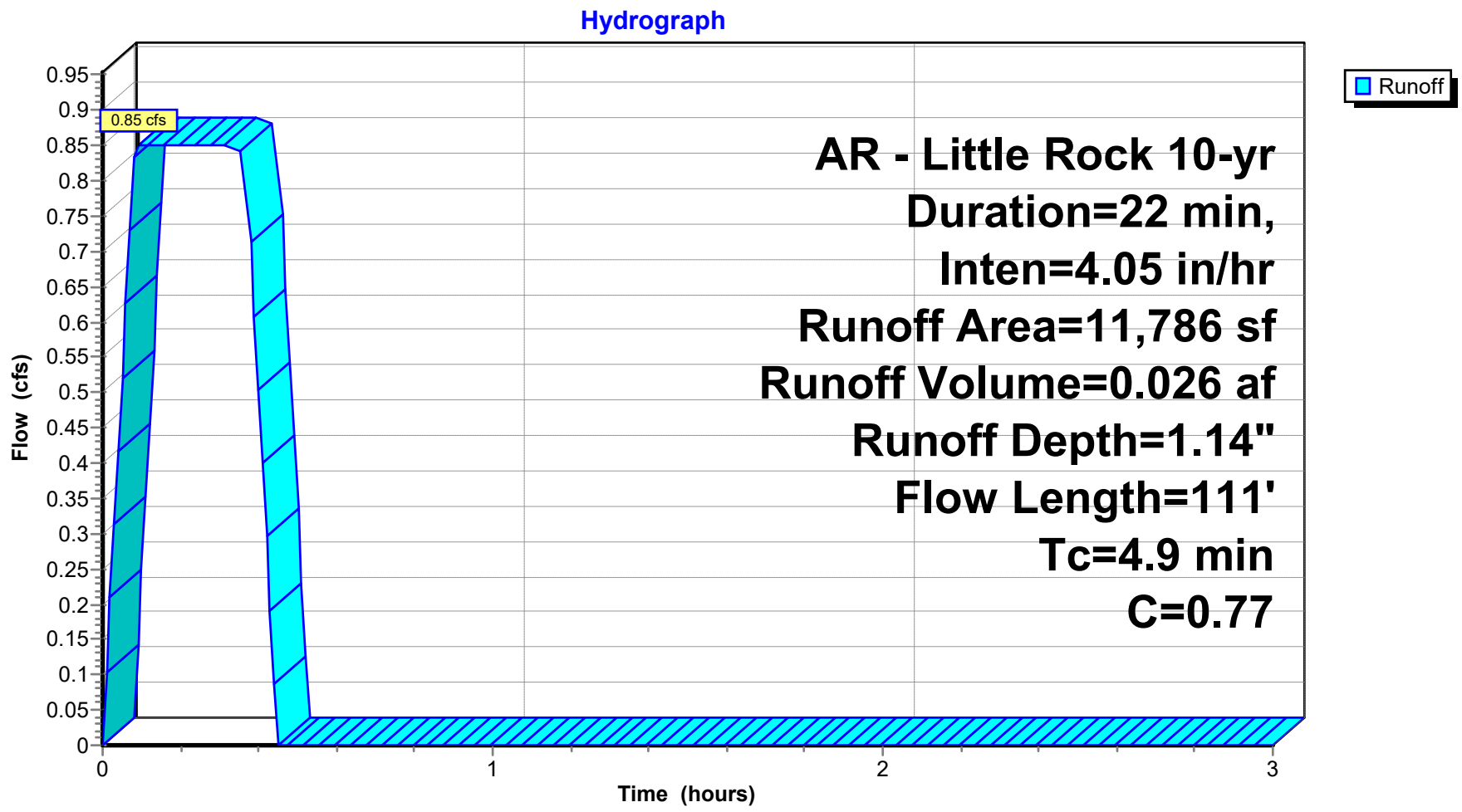
Runoff = 0.85 cfs @ 0.09 hrs, Volume= 0.026 af, Depth= 1.14"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3



Summary for Subcatchment DB-B4: Drainage Basin B4

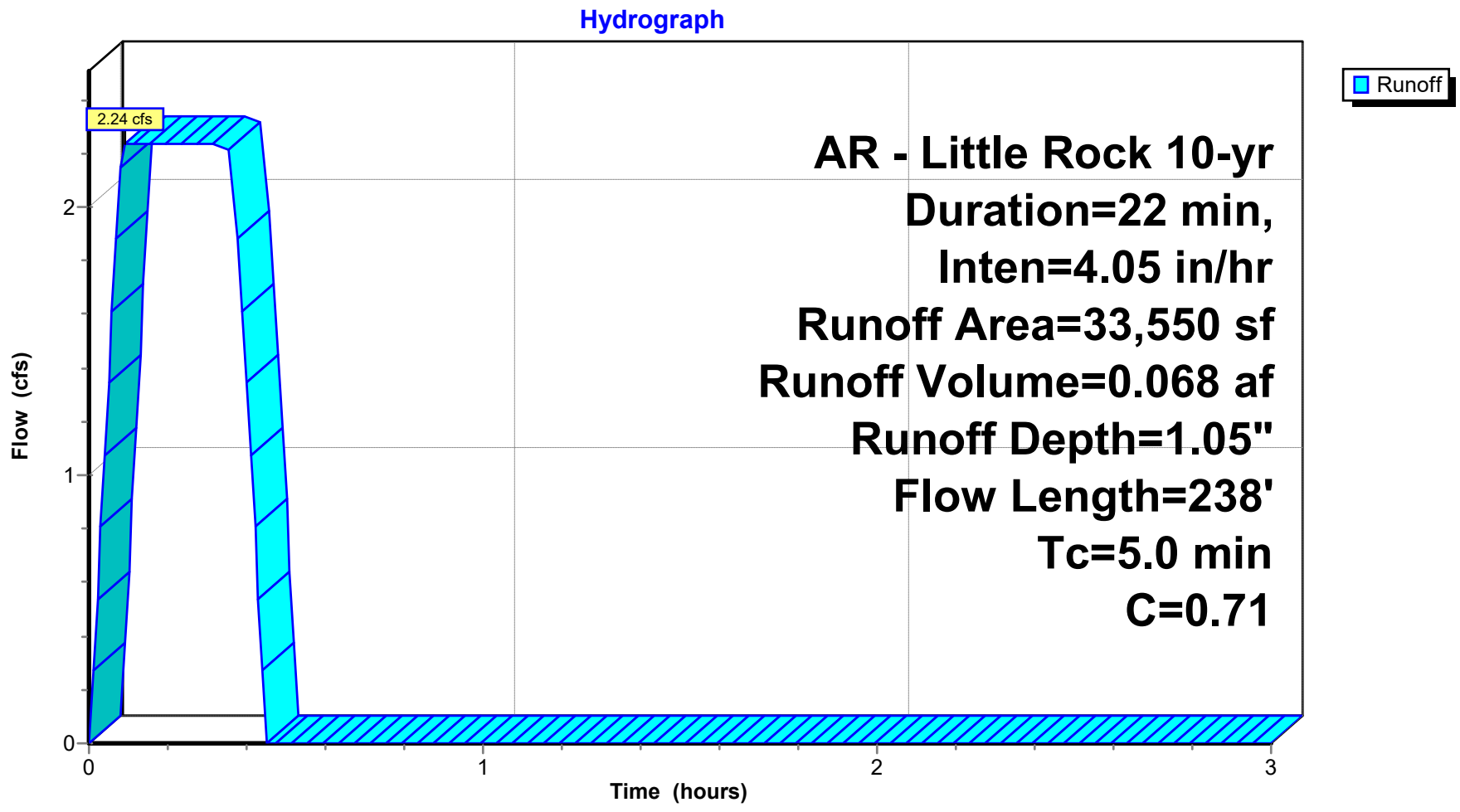
Runoff = 2.24 cfs @ 0.09 hrs, Volume= 0.068 af, Depth= 1.05"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



Summary for Subcatchment DB-B5: Drainage Basin B5

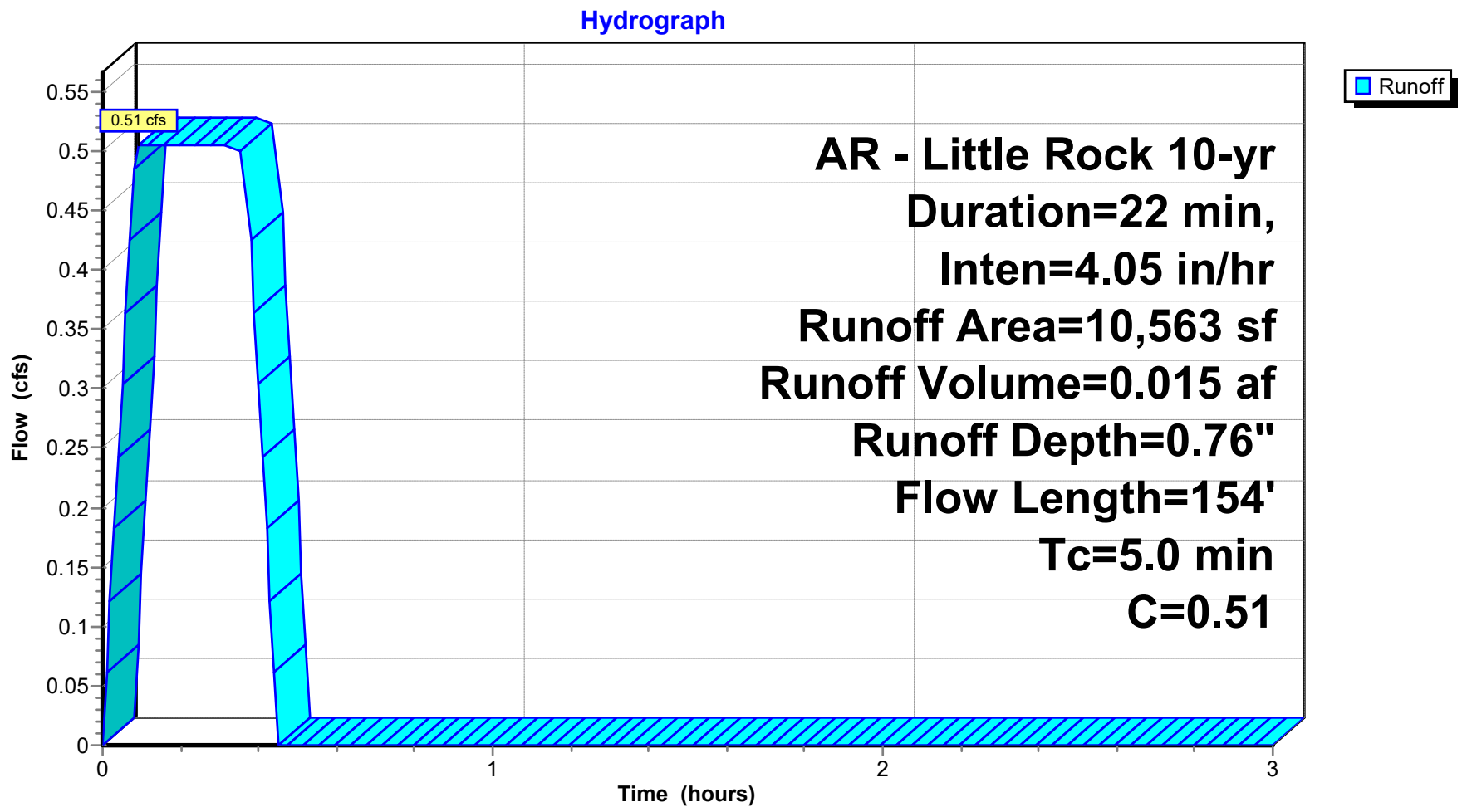
Runoff = 0.51 cfs @ 0.09 hrs, Volume= 0.015 af, Depth= 0.76"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			

Subcatchment DB-B5: Drainage Basin B5



Summary for Subcatchment DB-B6: Drainage Basin B6

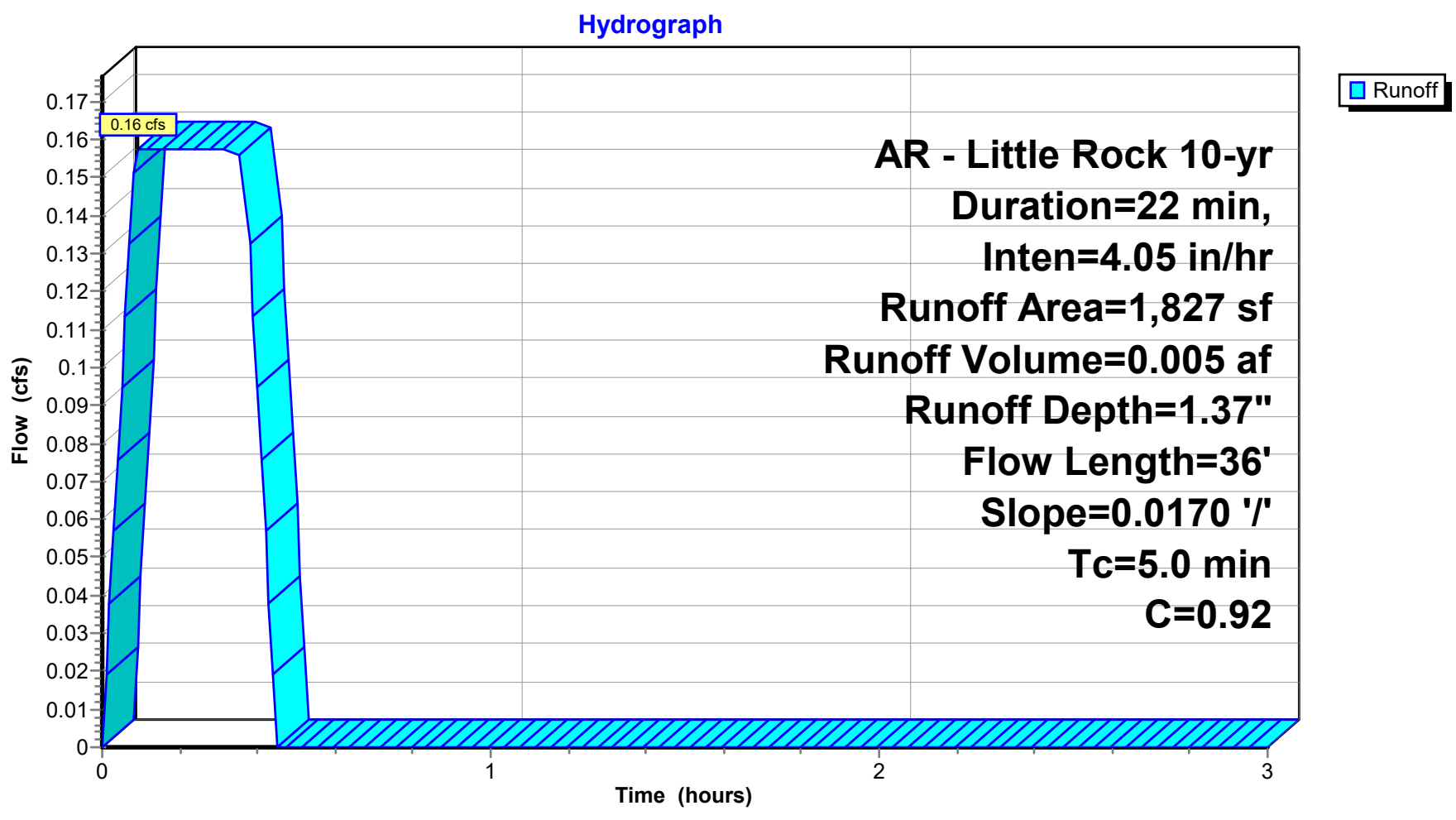
Runoff = 0.16 cfs @ 0.09 hrs, Volume= 0.005 af, Depth= 1.37"
Routed to Pond AI-B1 : AREA INLET B1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete**
					Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6



Summary for Subcatchment DB-B7: Drainage Basin B7

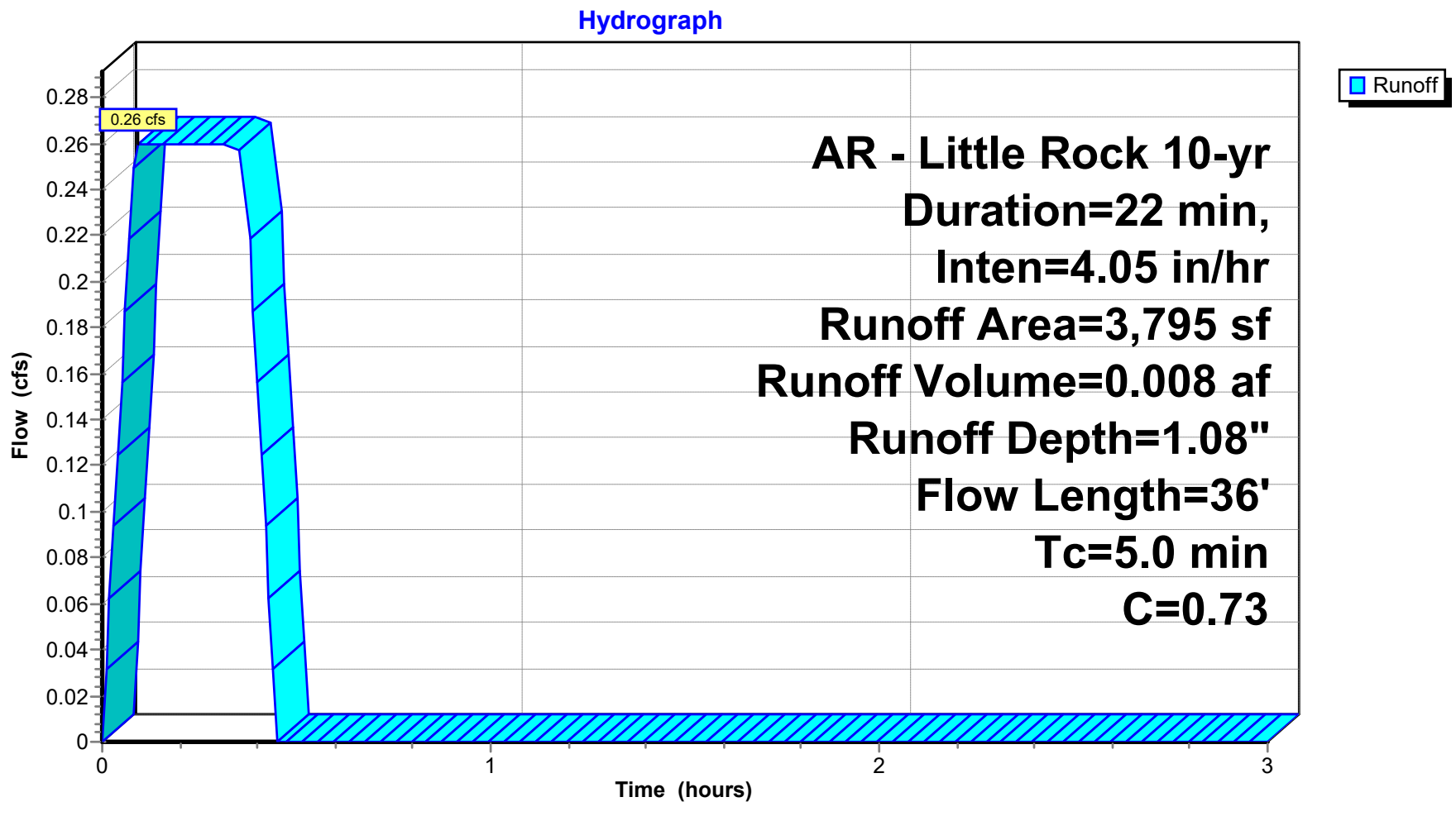
Runoff = 0.26 cfs @ 0.09 hrs, Volume= 0.008 af, Depth= 1.08"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



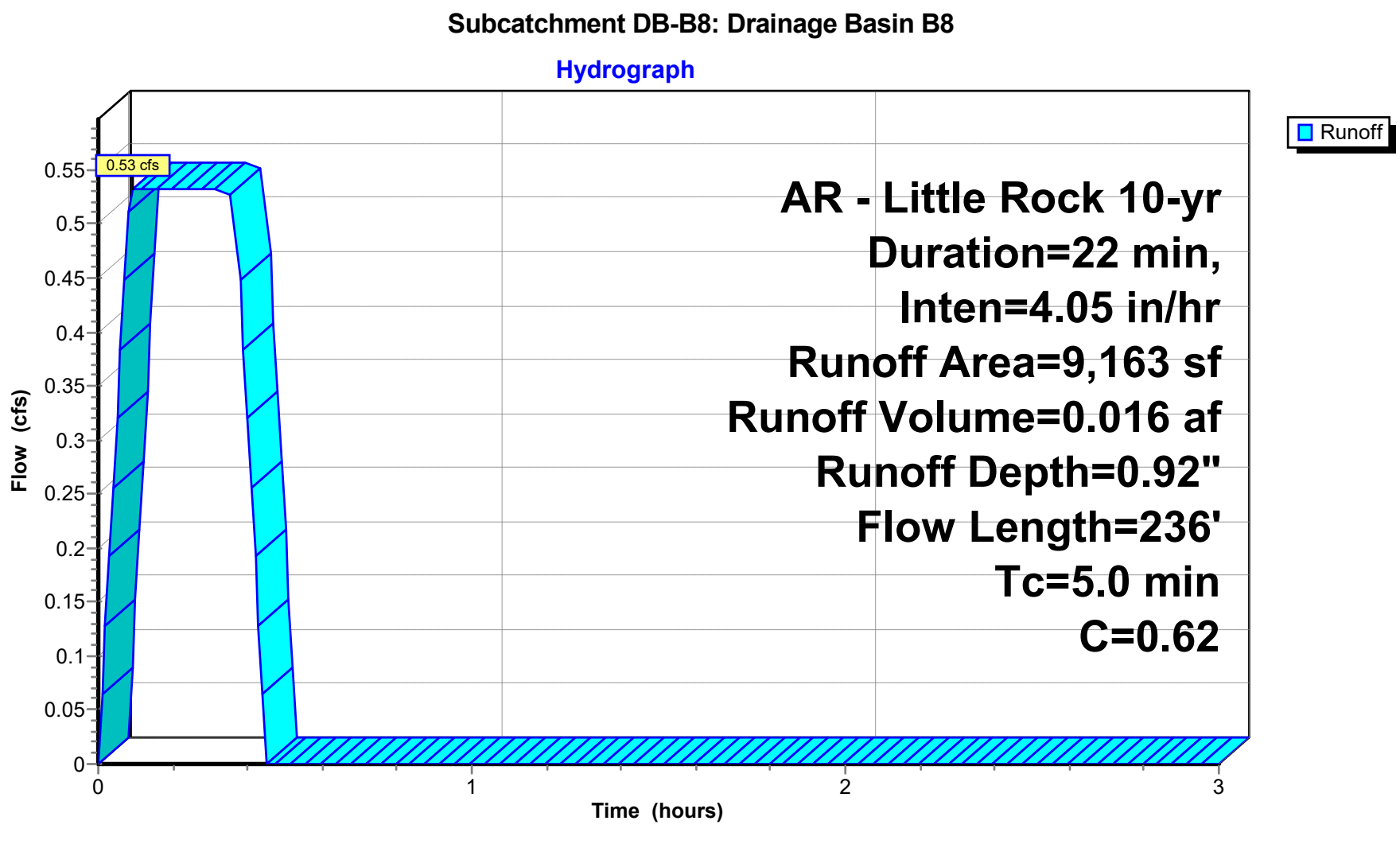
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.53 cfs @ 0.09 hrs, Volume= 0.016 af, Depth= 0.92"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



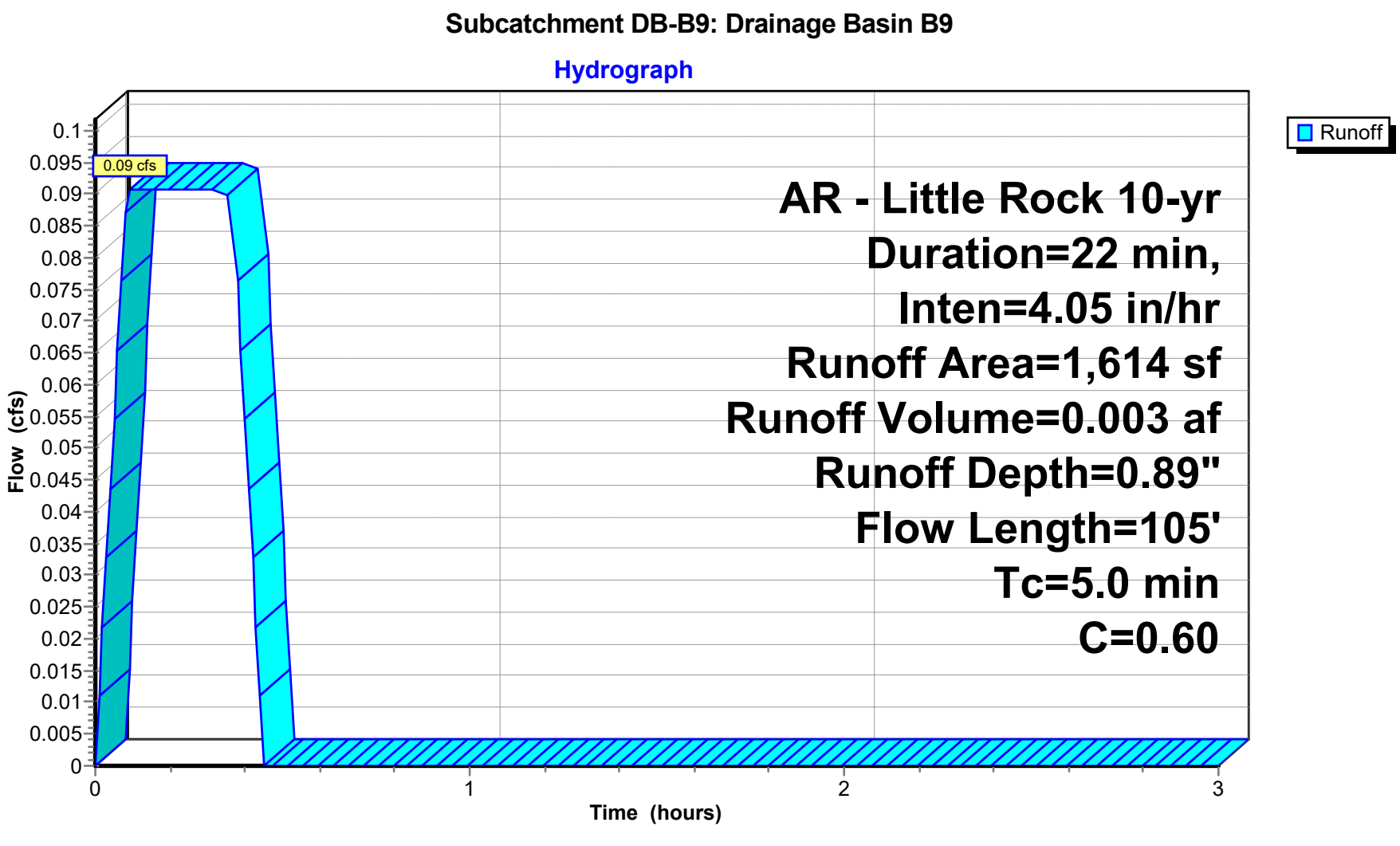
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.09 cfs @ 0.09 hrs, Volume= 0.003 af, Depth= 0.89"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 10-yr Duration=22 min, Inten=4.05 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.37" for 10-yr event
Inflow = 0.16 cfs @ 0.09 hrs, Volume= 0.005 af
Outflow = 0.16 cfs @ 0.10 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.6 min
Primary = 0.16 cfs @ 0.10 hrs, Volume= 0.005 af
Routed to Pond AI-B2 : AREA INLET B2

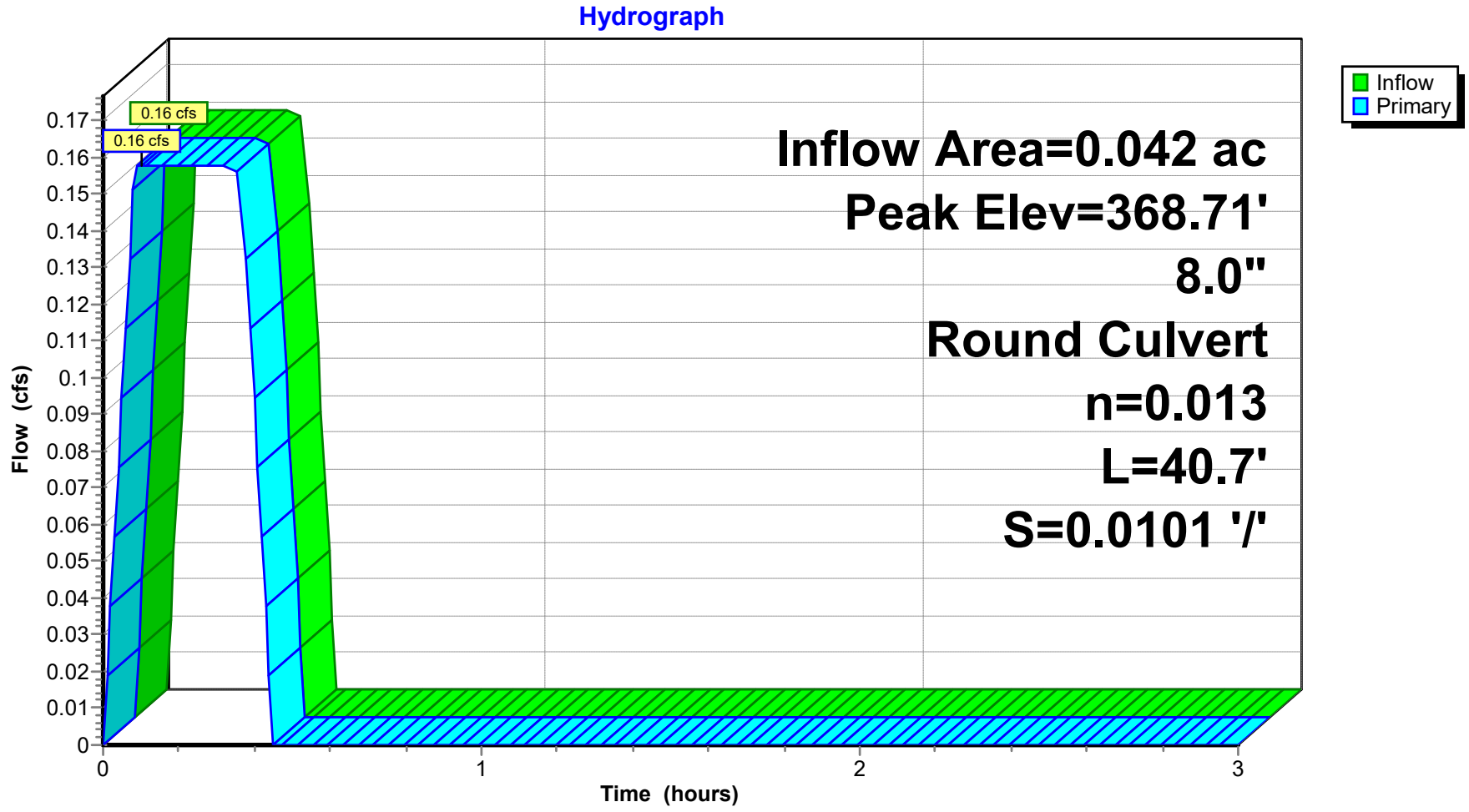
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.71' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.16 cfs @ 0.10 hrs HW=368.71' (Free Discharge)
└**1=HDPE 8"** (Barrel Controls 0.16 cfs @ 2.32 fps)

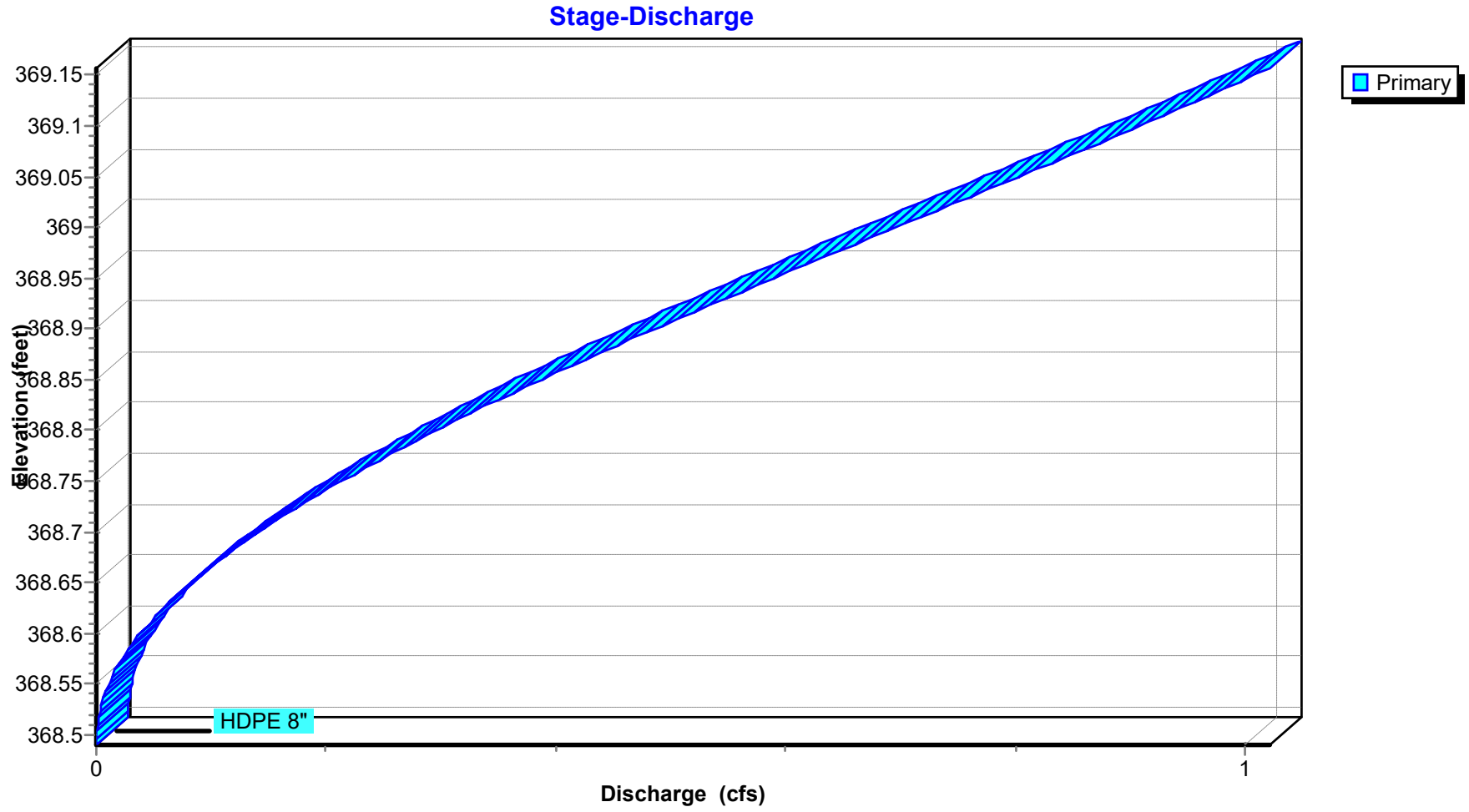
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.18" for 10-yr event
Inflow = 0.42 cfs @ 0.10 hrs, Volume= 0.013 af
Outflow = 0.42 cfs @ 0.09 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.42 cfs @ 0.09 hrs, Volume= 0.013 af
Routed to Pond CI-A2 : CURB INLET A2

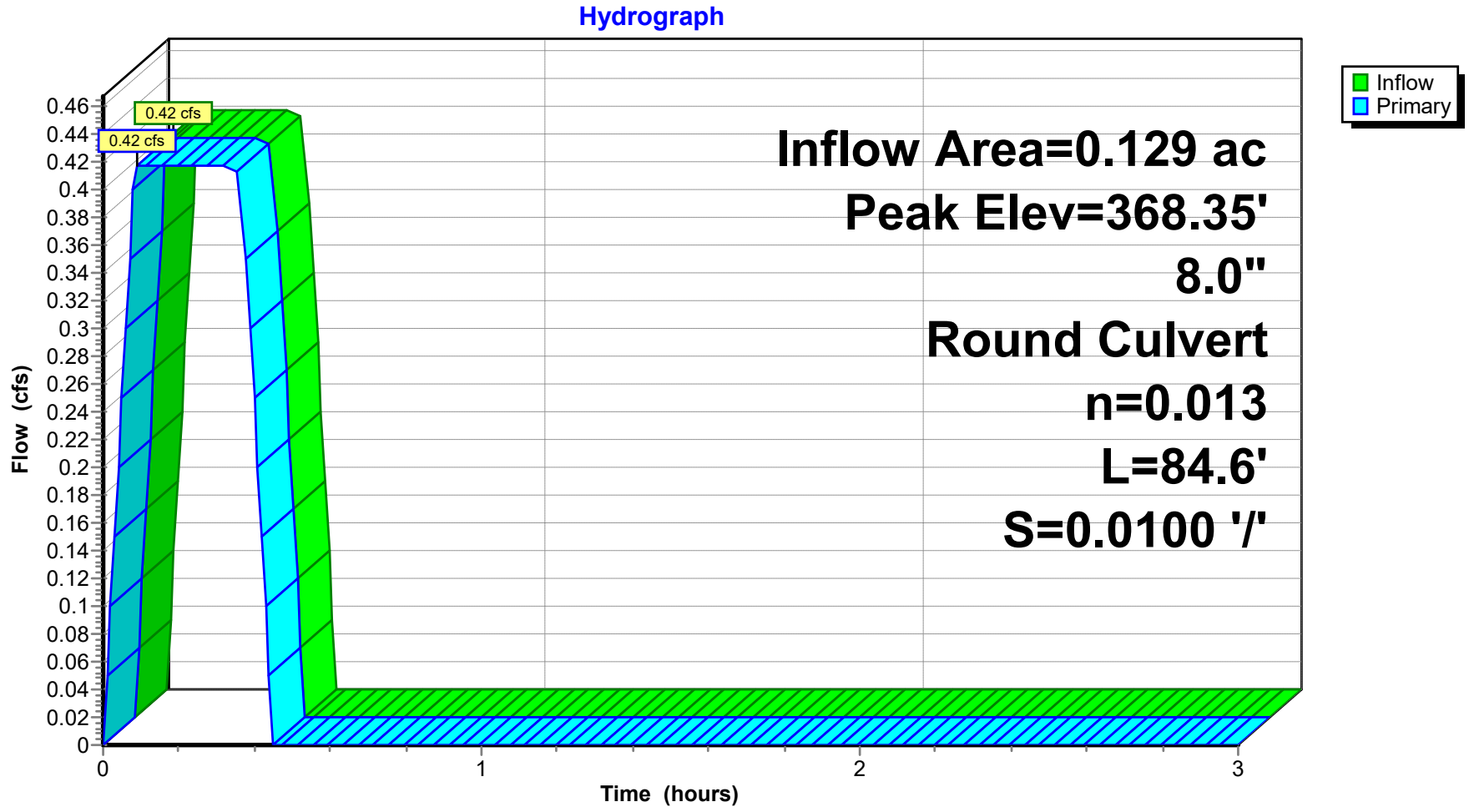
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.35' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.42 cfs @ 0.09 hrs HW=368.35' (Free Discharge)
└**1=HDPE** (Barrel Controls 0.42 cfs @ 3.05 fps)

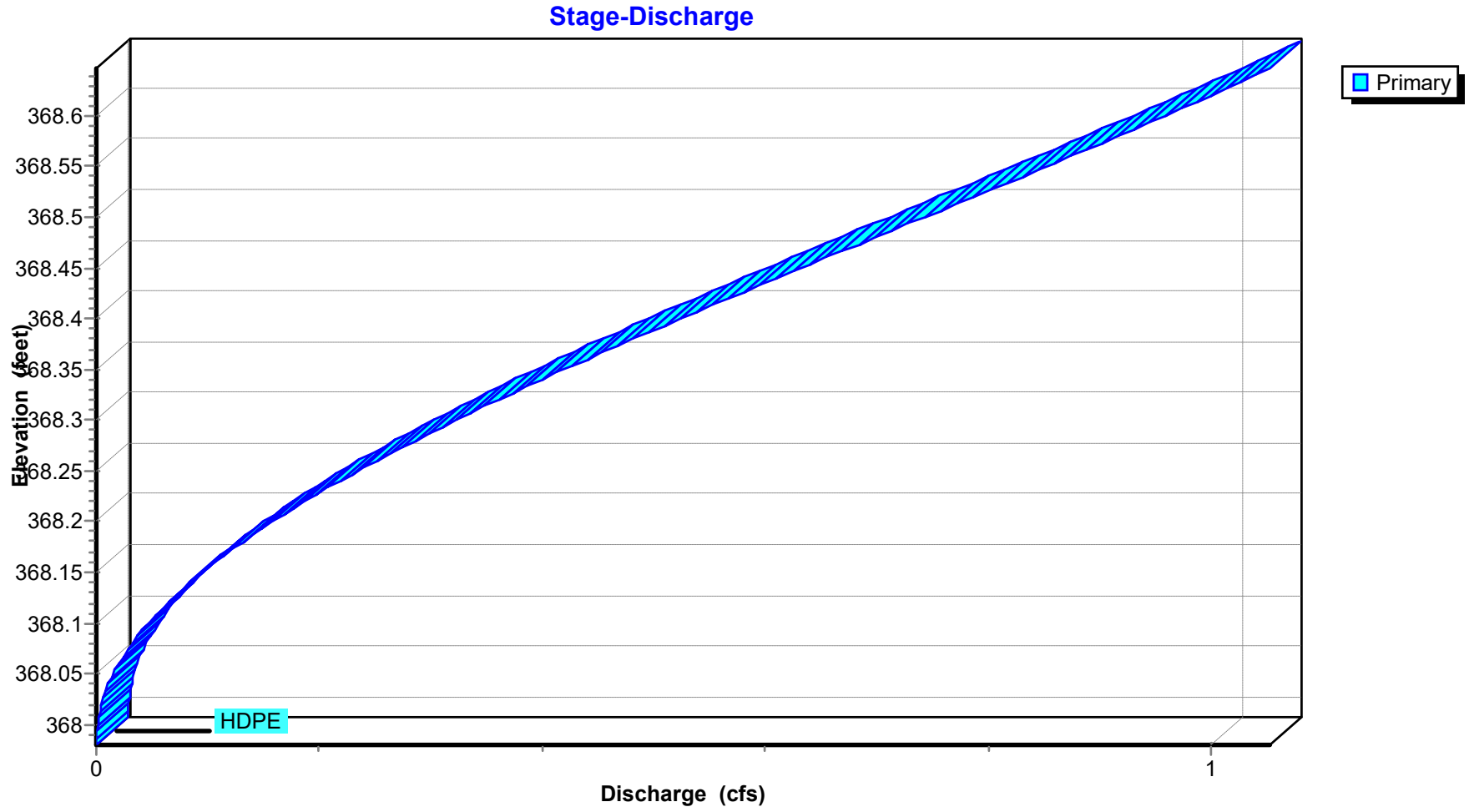
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
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368.37	0.000
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368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.28" for 10-yr event
Inflow = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af
Outflow = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 1.56 cfs @ 0.09 hrs, Volume= 0.047 af
Routed to Pond CI-A2 : CURB INLET A2

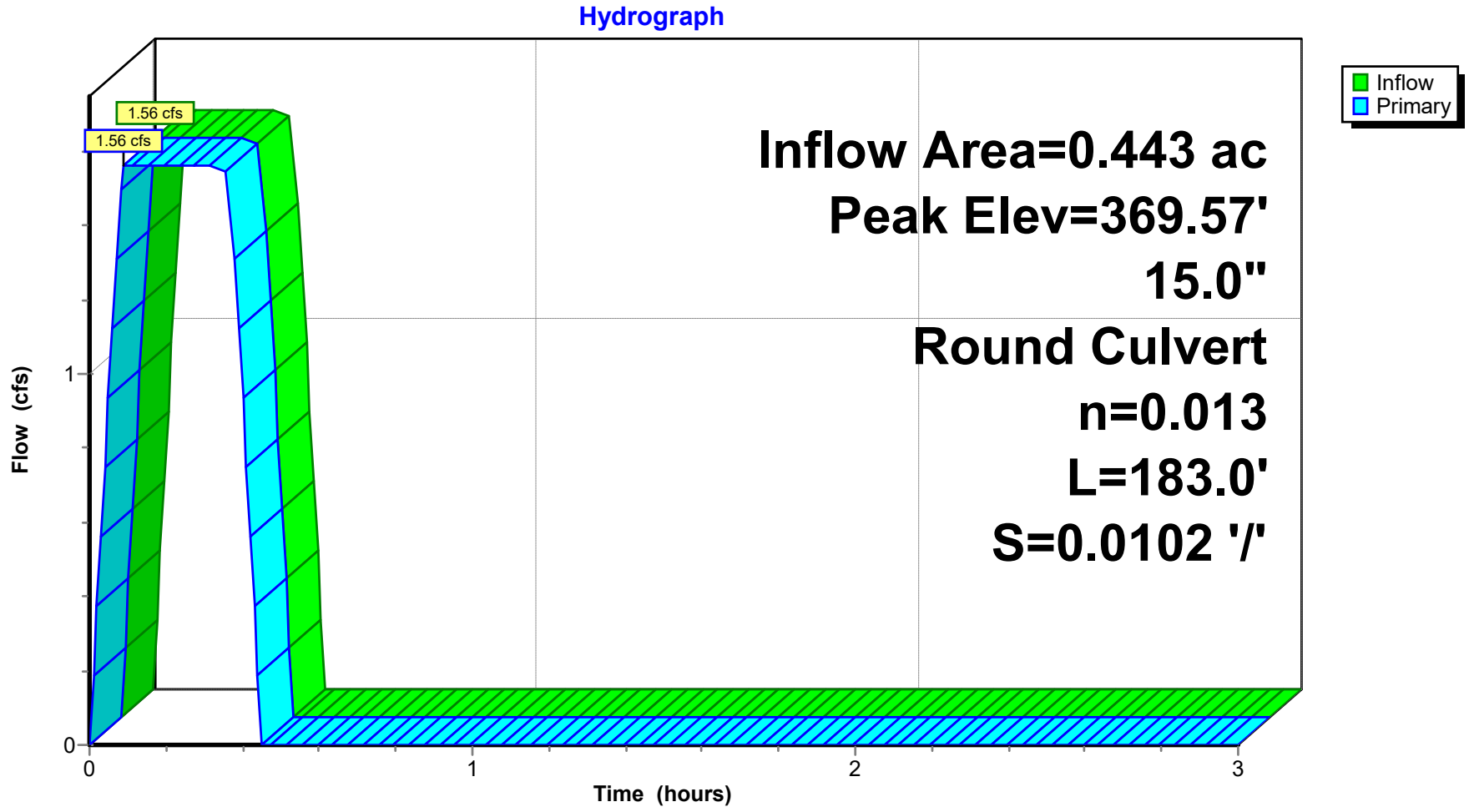
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.57' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.56 cfs @ 0.09 hrs HW=369.57' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.56 cfs @ 4.22 fps)

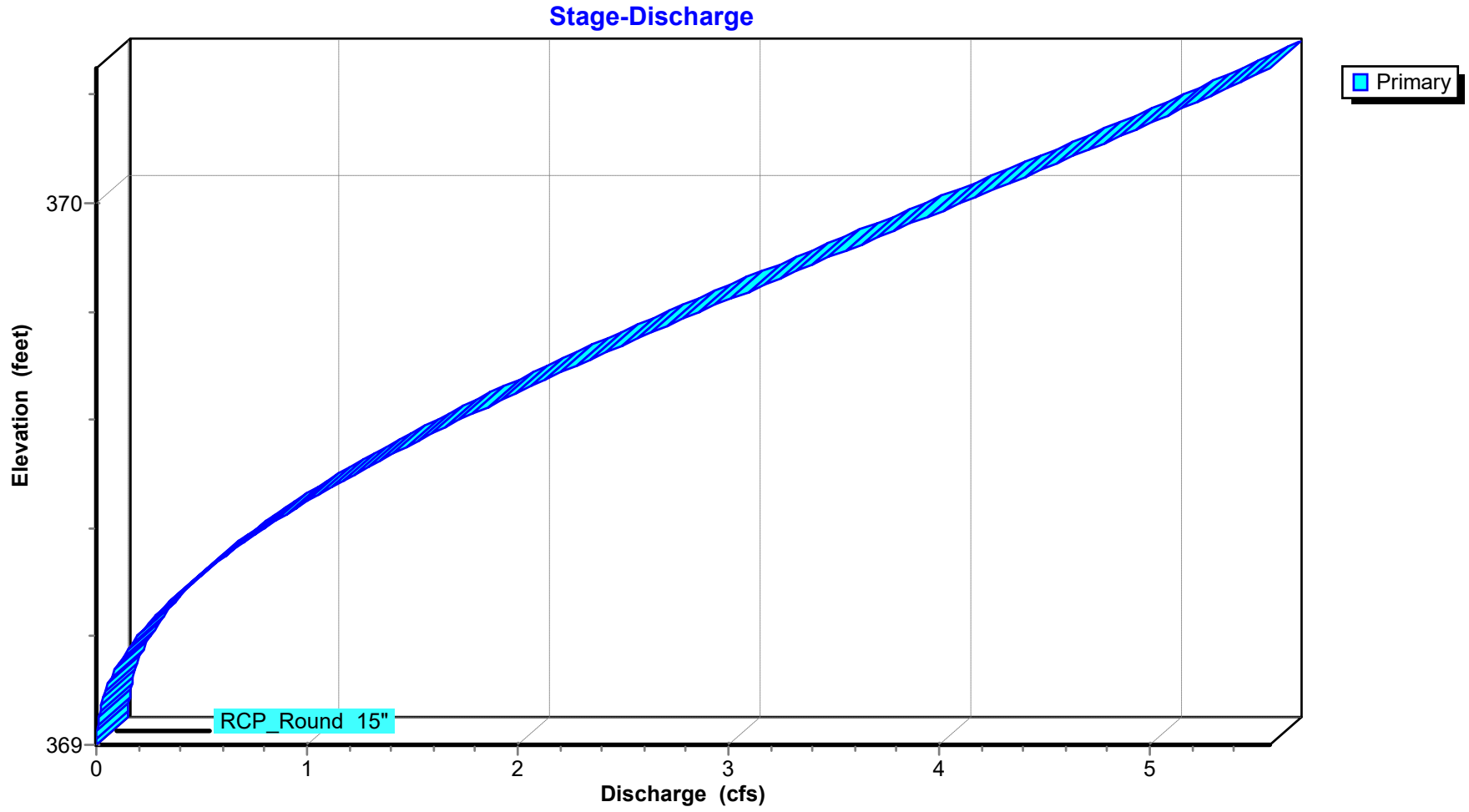
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.10" for 10-yr event
Inflow = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af
Outflow = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
Primary = 3.50 cfs @ 0.15 hrs, Volume= 0.106 af
Routed to Pond CI-A3 : CURB INLET A3

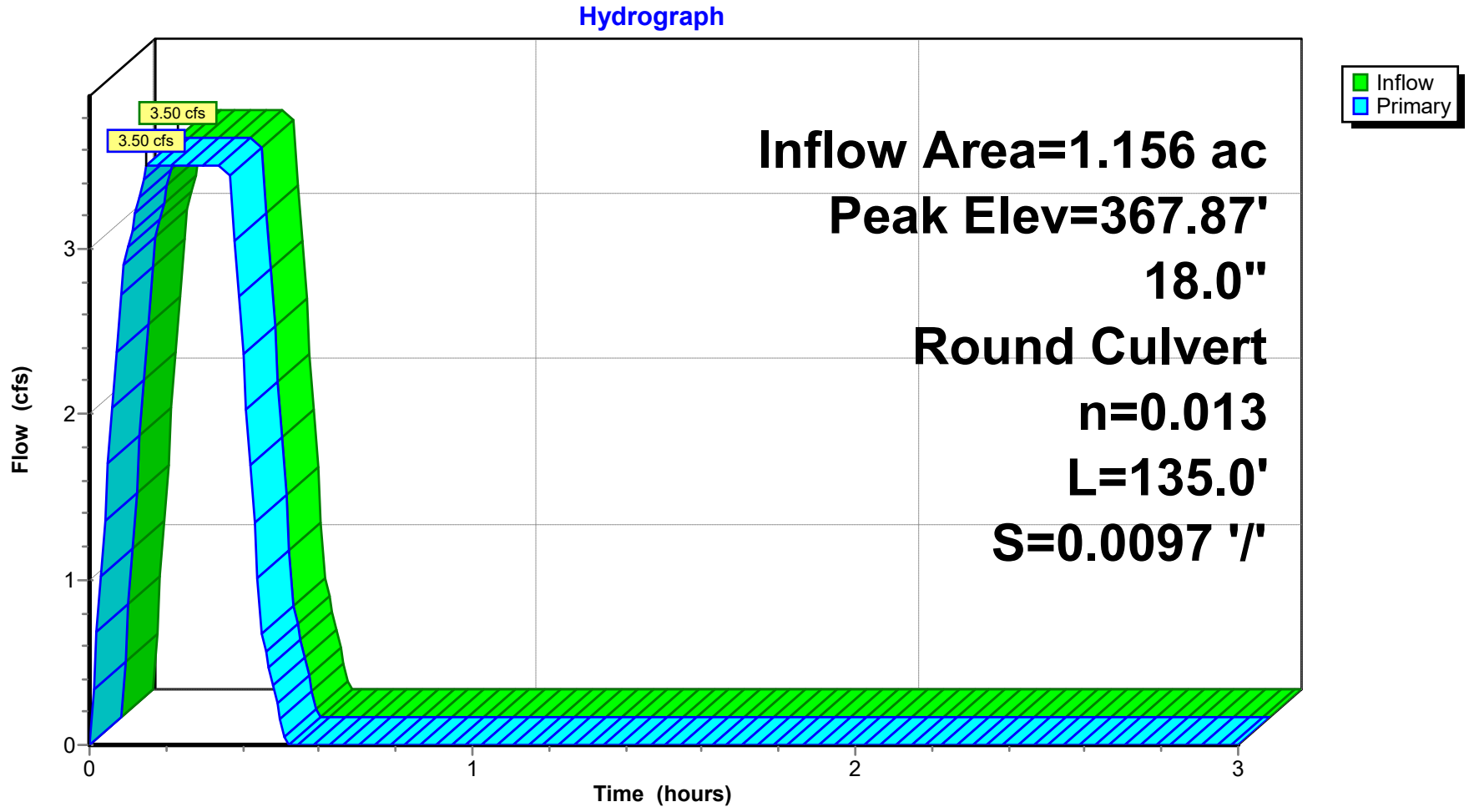
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.87' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=3.50 cfs @ 0.15 hrs HW=367.87' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 3.50 cfs @ 4.96 fps)

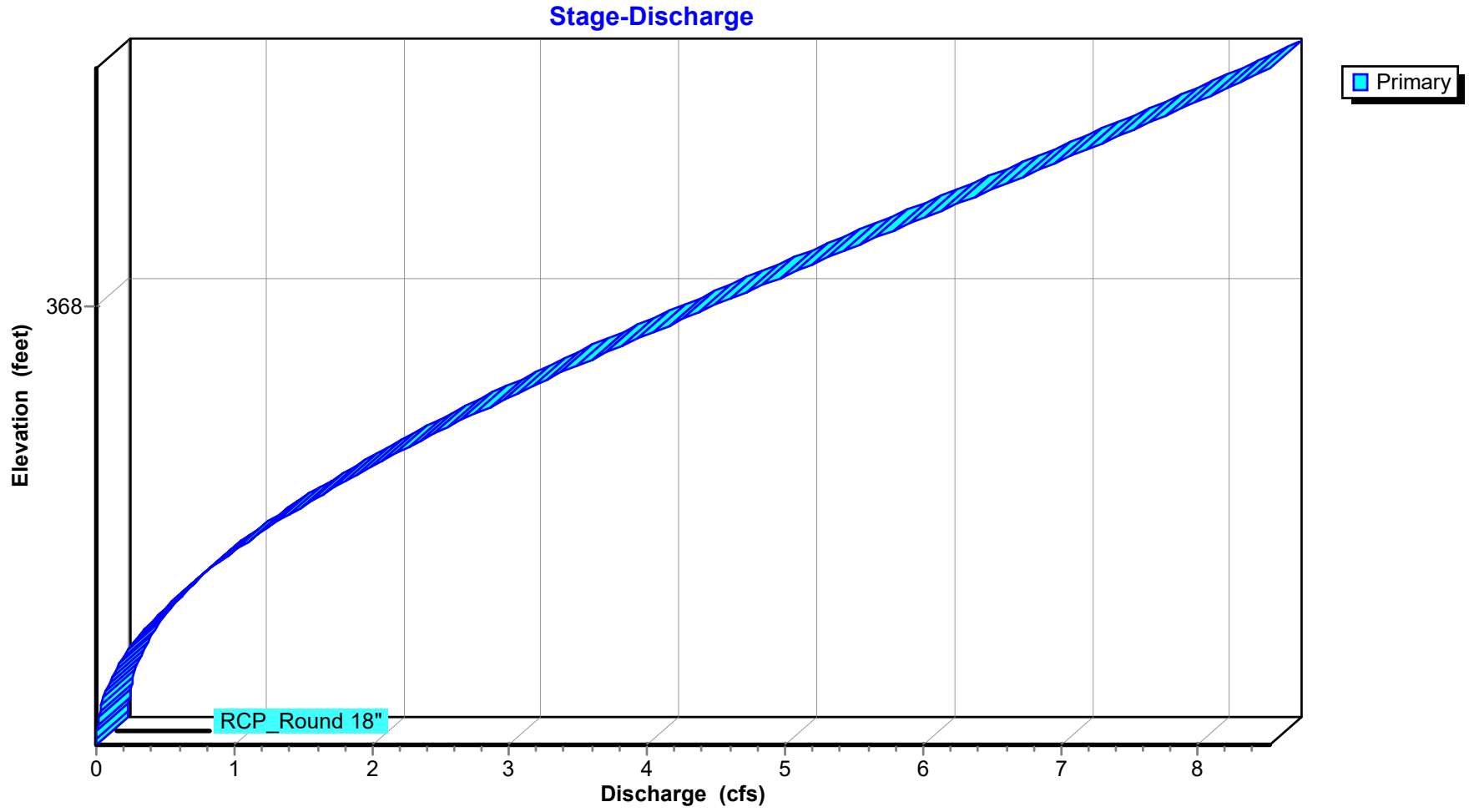
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.11" for 10-yr event
Inflow = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af
Outflow = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af, Atten= 0%, Lag= 0.0 min
Primary = 4.35 cfs @ 0.15 hrs, Volume= 0.132 af
Routed to Pond CI-A4 : CURB INLET A4

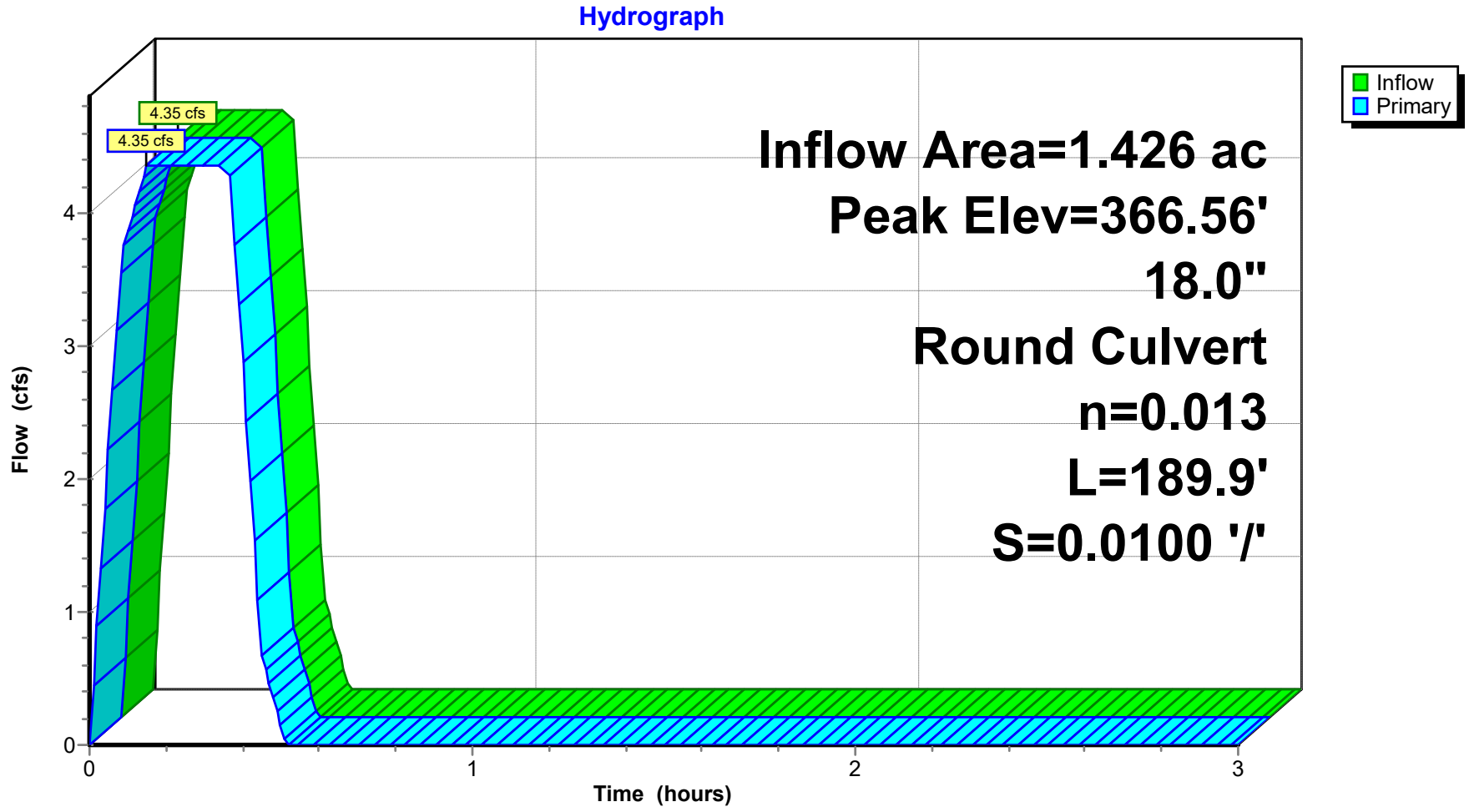
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.56' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.35 cfs @ 0.15 hrs HW=366.56' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 4.35 cfs @ 5.36 fps)

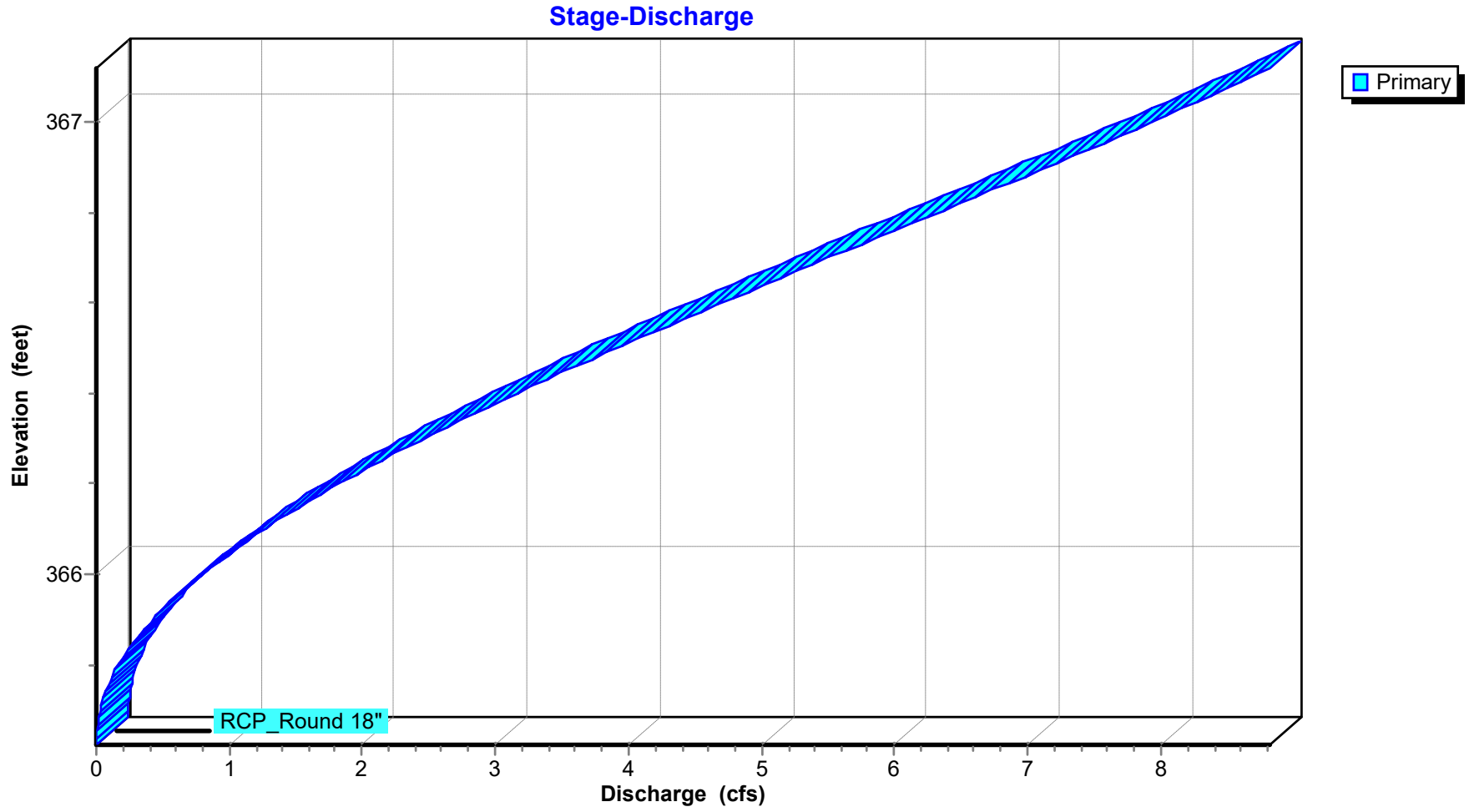
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.09" for 10-yr event
Inflow = 6.59 cfs @ 0.15 hrs, Volume= 0.200 af
Outflow = 6.59 cfs @ 0.16 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.6 min
Primary = 6.59 cfs @ 0.16 hrs, Volume= 0.200 af
Routed to Pond CI-A5 : CURB INLET A5

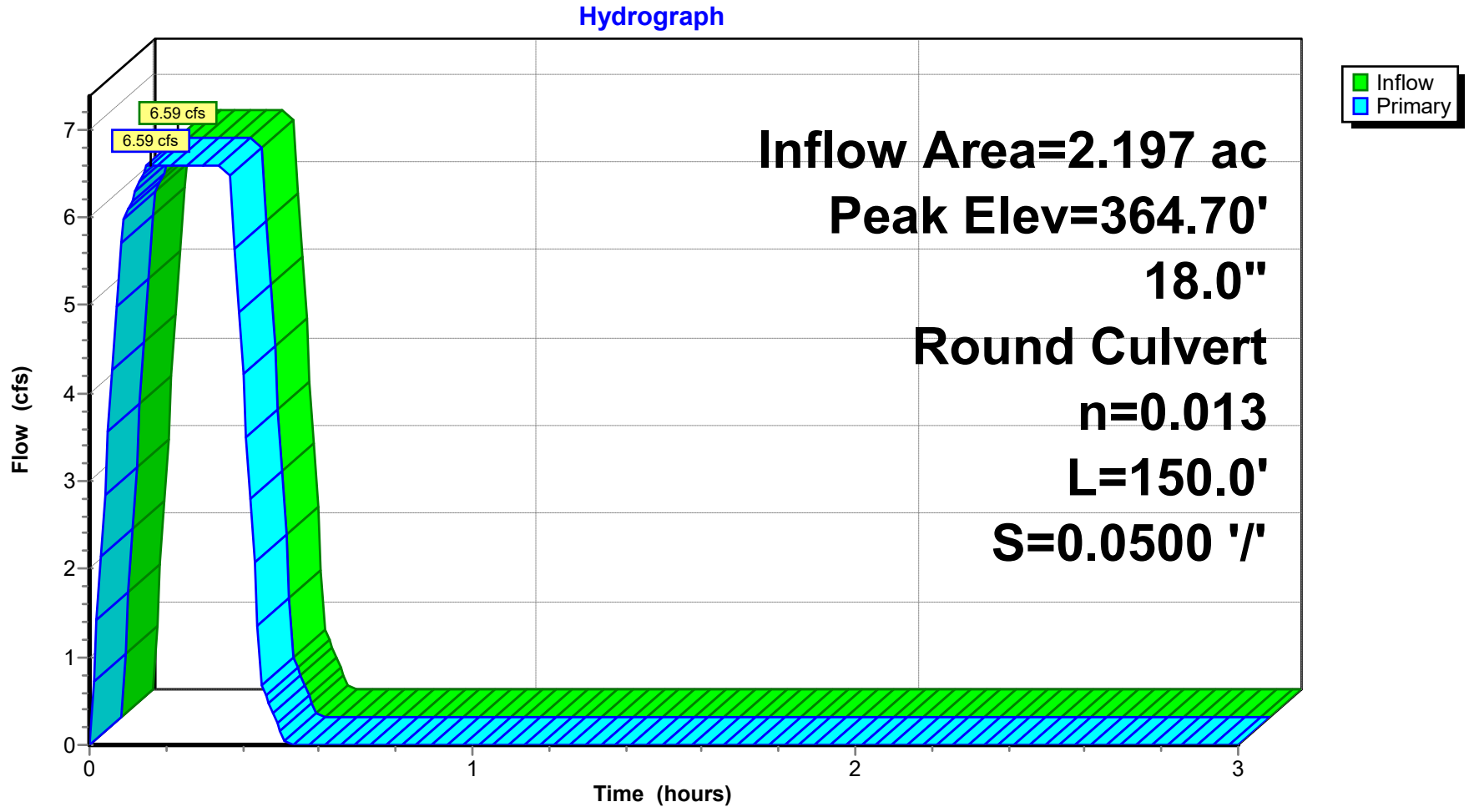
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.70' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=6.59 cfs @ 0.16 hrs HW=364.70' (Free Discharge)
└─**1=RCP_Round 18"** (Inlet Controls 6.59 cfs @ 4.83 fps)

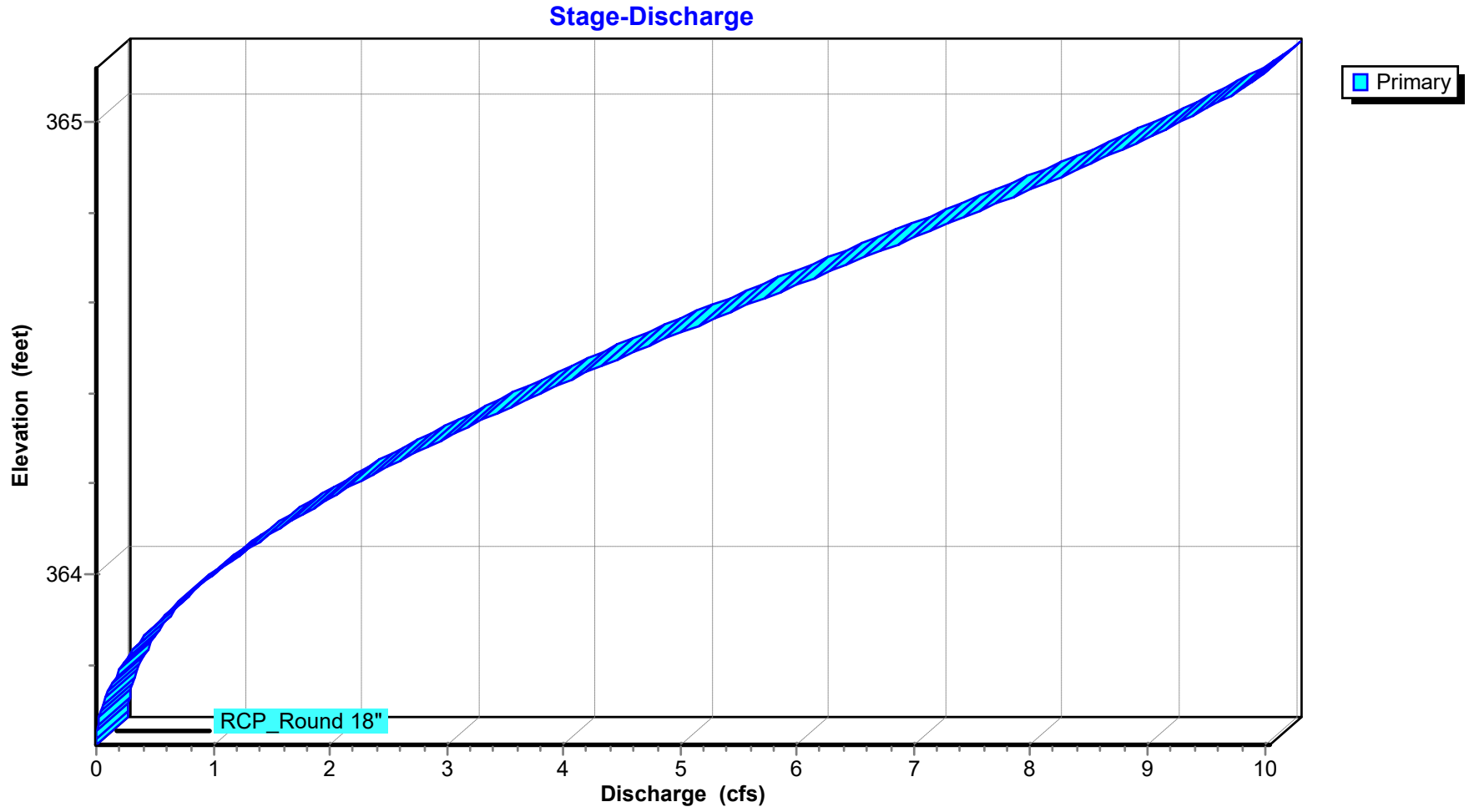
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.06" for 10-yr event
Inflow = 7.10 cfs @ 0.16 hrs, Volume= 0.215 af
Outflow = 7.10 cfs @ 0.18 hrs, Volume= 0.215 af, Atten= 0%, Lag= 1.2 min
Primary = 7.10 cfs @ 0.18 hrs, Volume= 0.215 af
Routed to Link POST-DEV : Post-Development

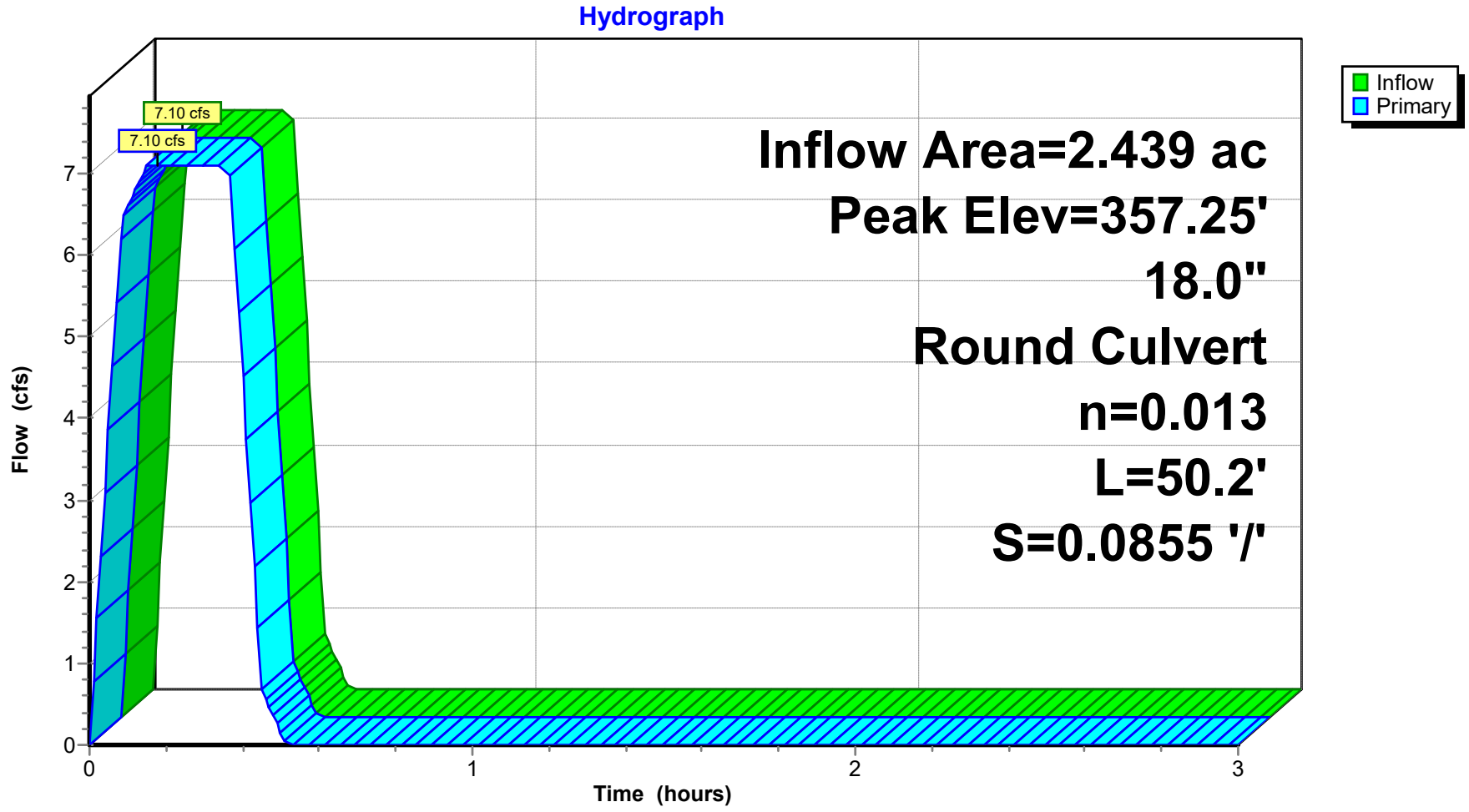
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.25' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=7.10 cfs @ 0.18 hrs HW=357.25' (Free Discharge)
└─**1=RCP_Round 18** (Inlet Controls 7.10 cfs @ 4.95 fps)

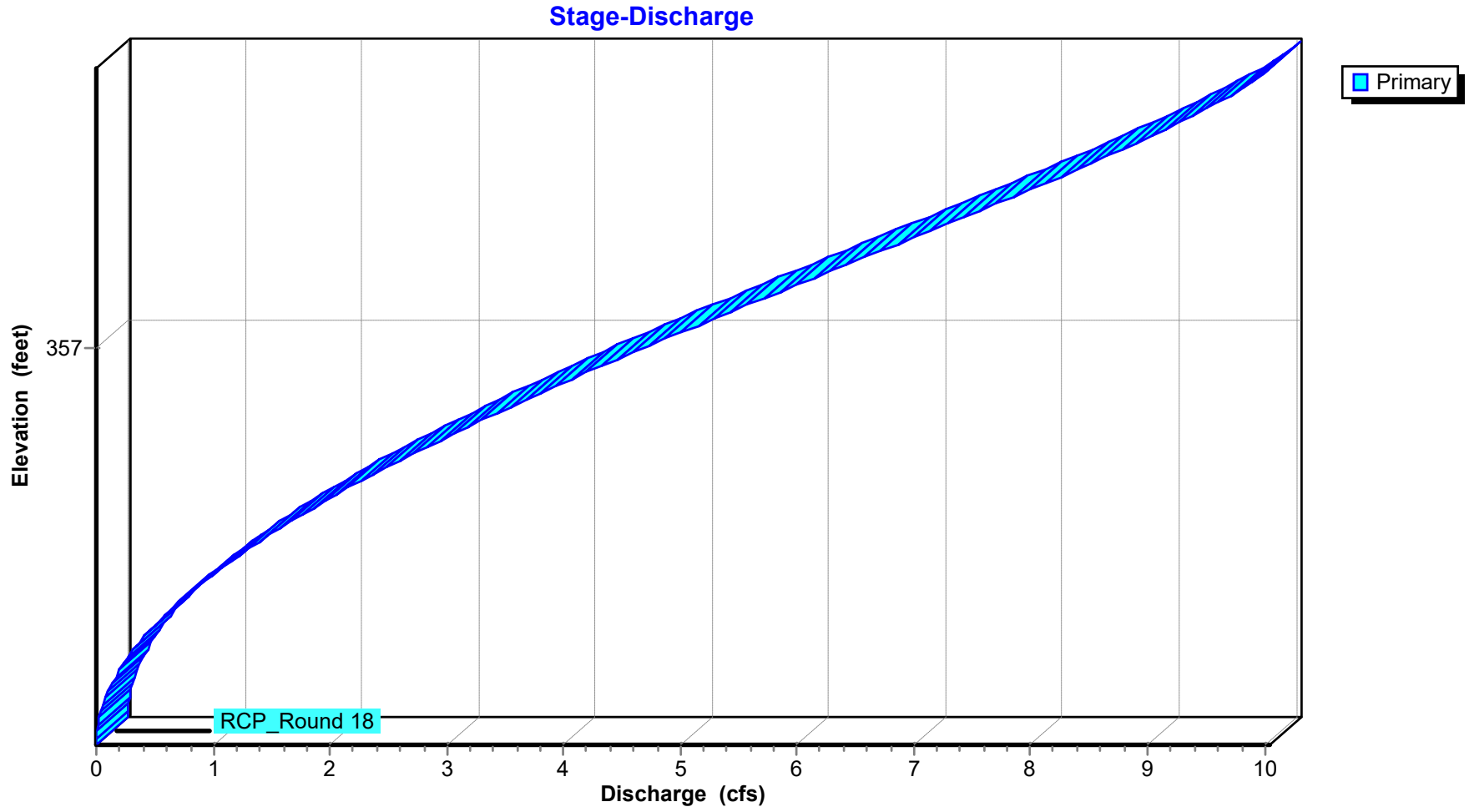
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
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356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.53 cfs @ 0.09 hrs, Volume= 0.016 af
Outflow = 0.53 cfs @ 0.10 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.6 min
Primary = 0.53 cfs @ 0.10 hrs, Volume= 0.016 af
Routed to Pond CI-C2 : CURB INLET C2

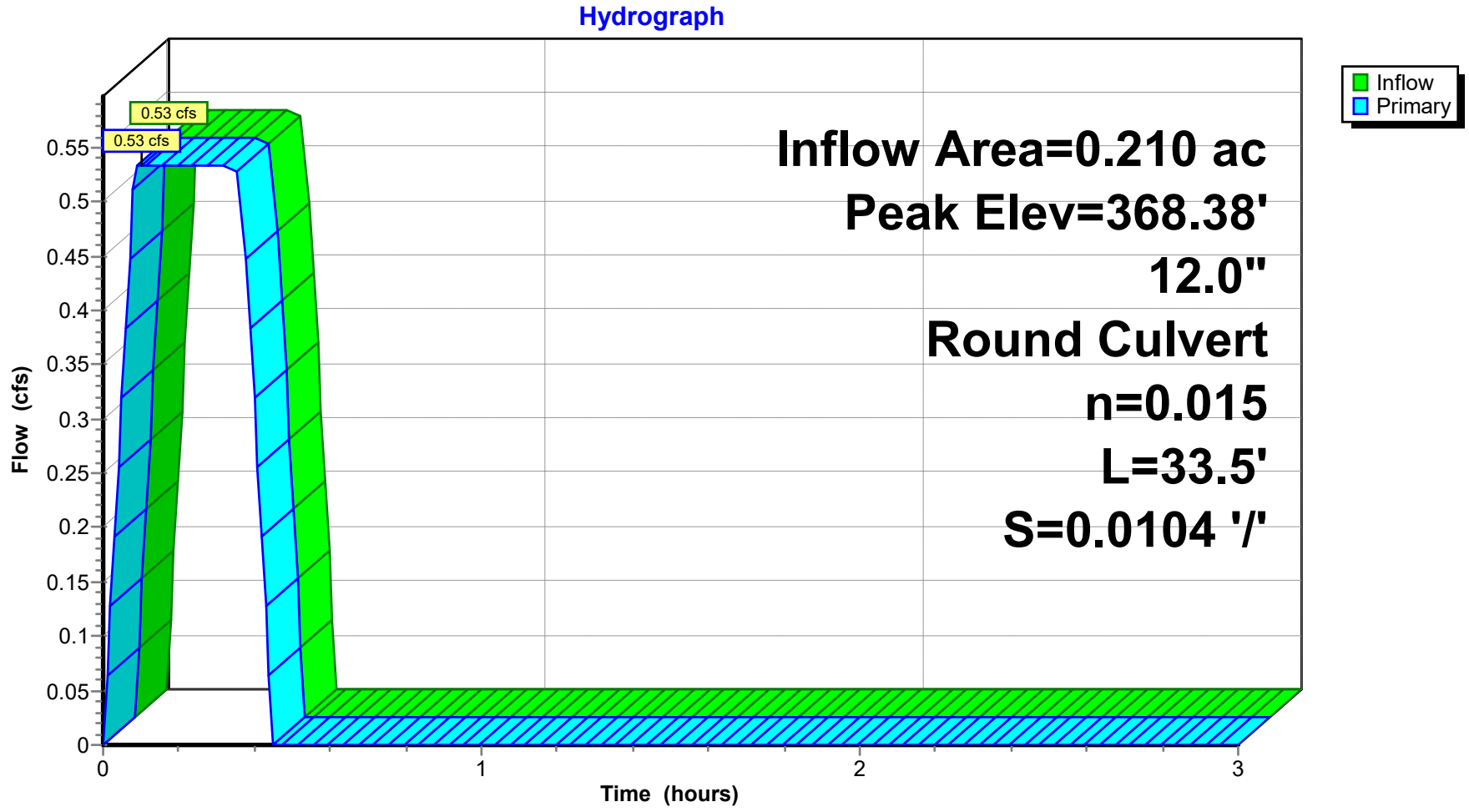
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.38' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 0.10 hrs HW=368.38' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.53 cfs @ 2.85 fps)

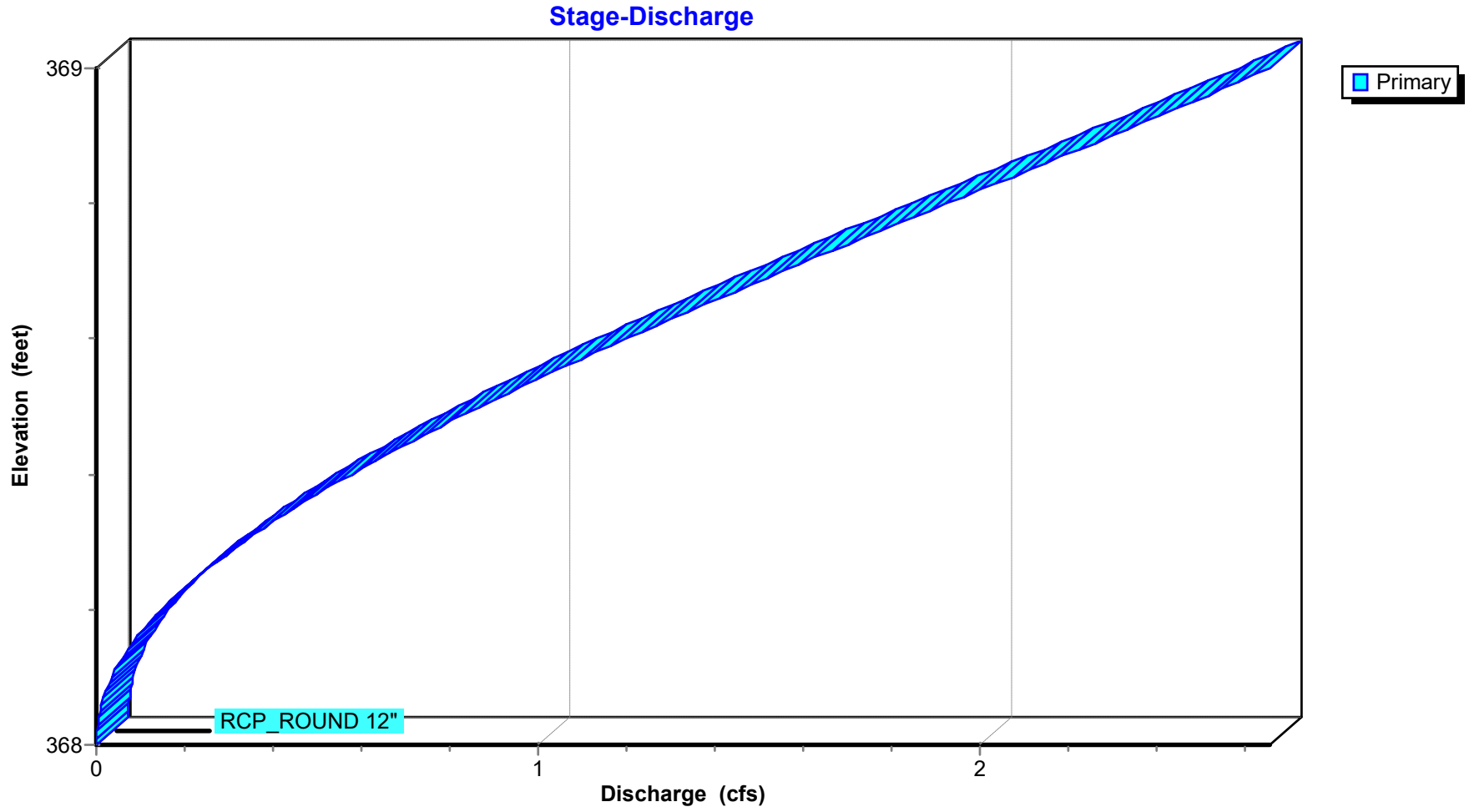
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af
Outflow = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af
Routed to Pond JB-C3 : JUNCTION BOX C3

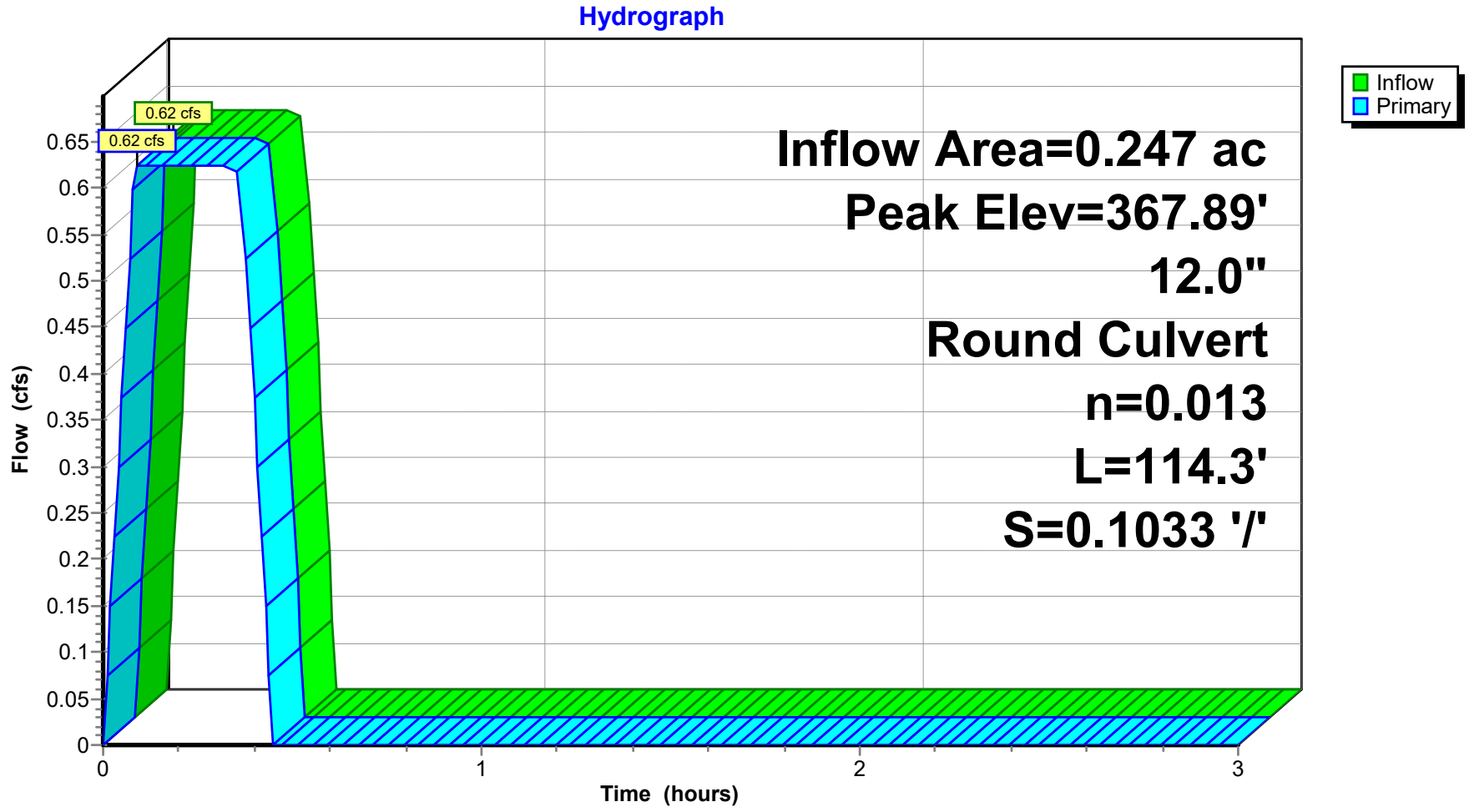
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.89' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 0.09 hrs HW=367.89' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 0.62 cfs @ 2.69 fps)

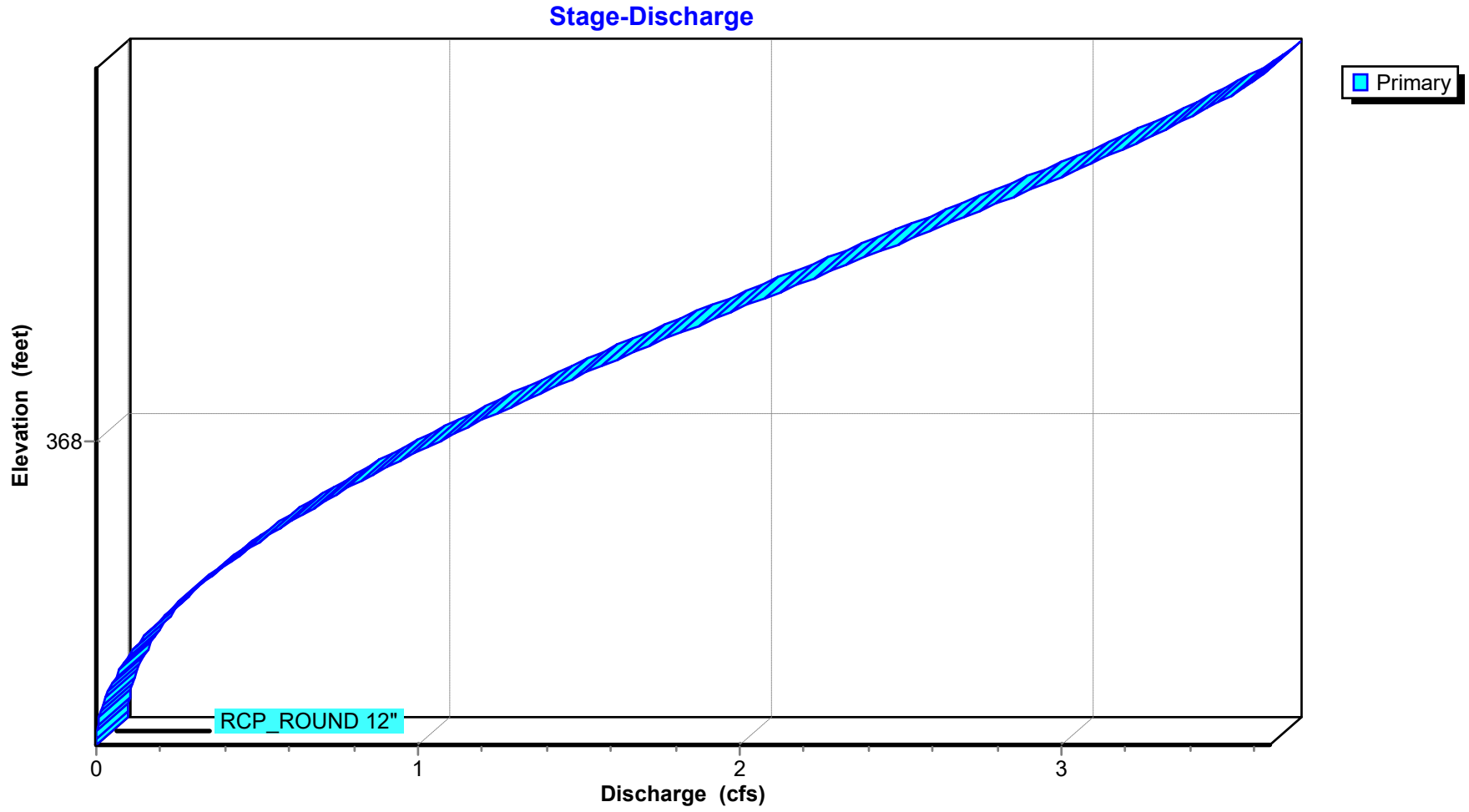
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.55	**0.000**	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000	368.54	0.000
367.63	0.000	368.55	0.000
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		
367.95	0.000		
367.96	0.000		
367.97	0.000		
367.98	0.000		
367.99	0.000		
368.00	0.000		
368.01	0.000		
368.02	0.000		
368.03	0.000		
368.04	0.000		
368.05	0.000		
368.06	0.000		
368.07	0.000		
368.08	0.000		
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af
Outflow = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
Primary = 2.45 cfs @ 0.10 hrs, Volume= 0.074 af
Routed to Pond CI-C5 : CURB INLET C5

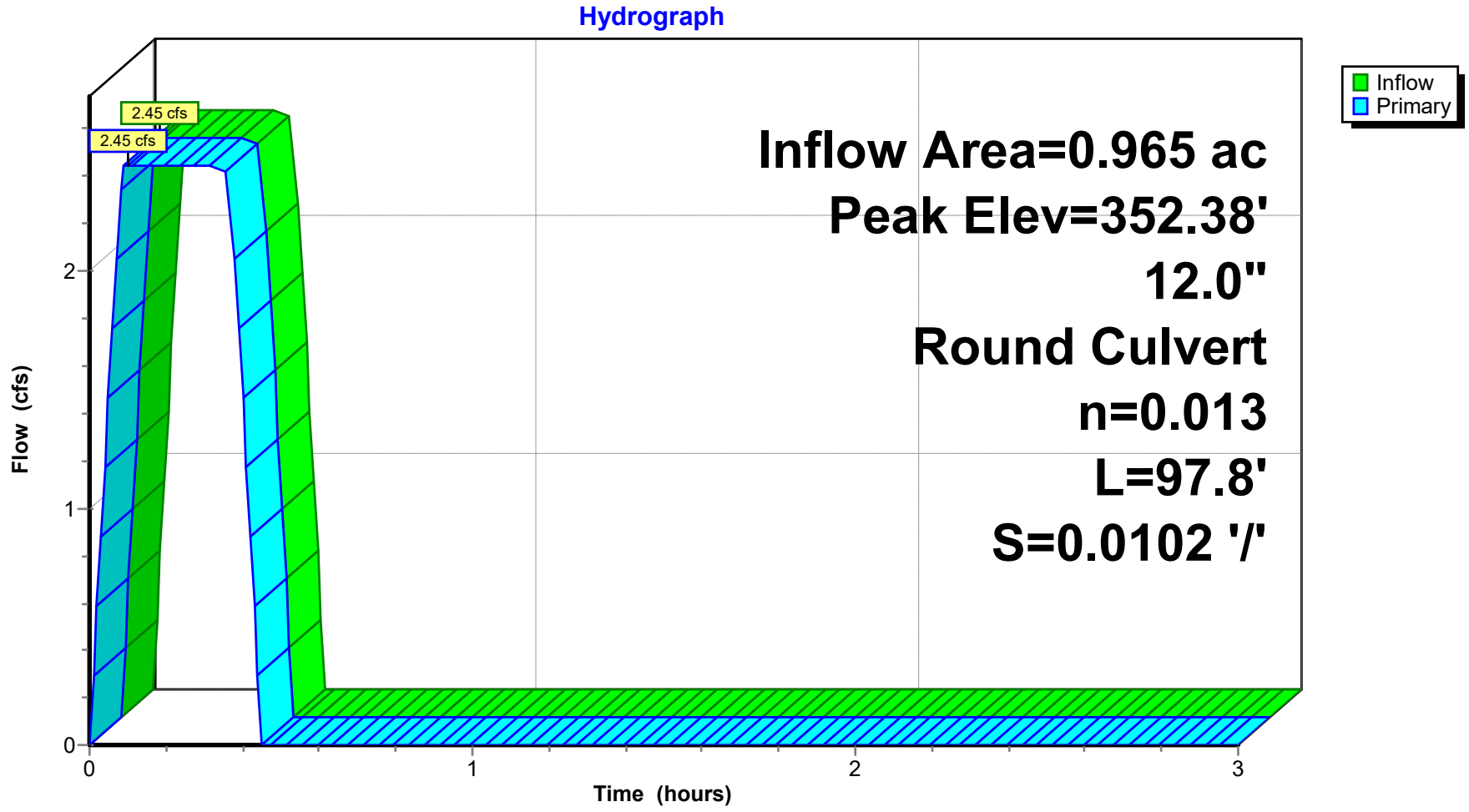
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.38' @ 0.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.45 cfs @ 0.10 hrs HW=352.38' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 2.45 cfs @ 4.62 fps)

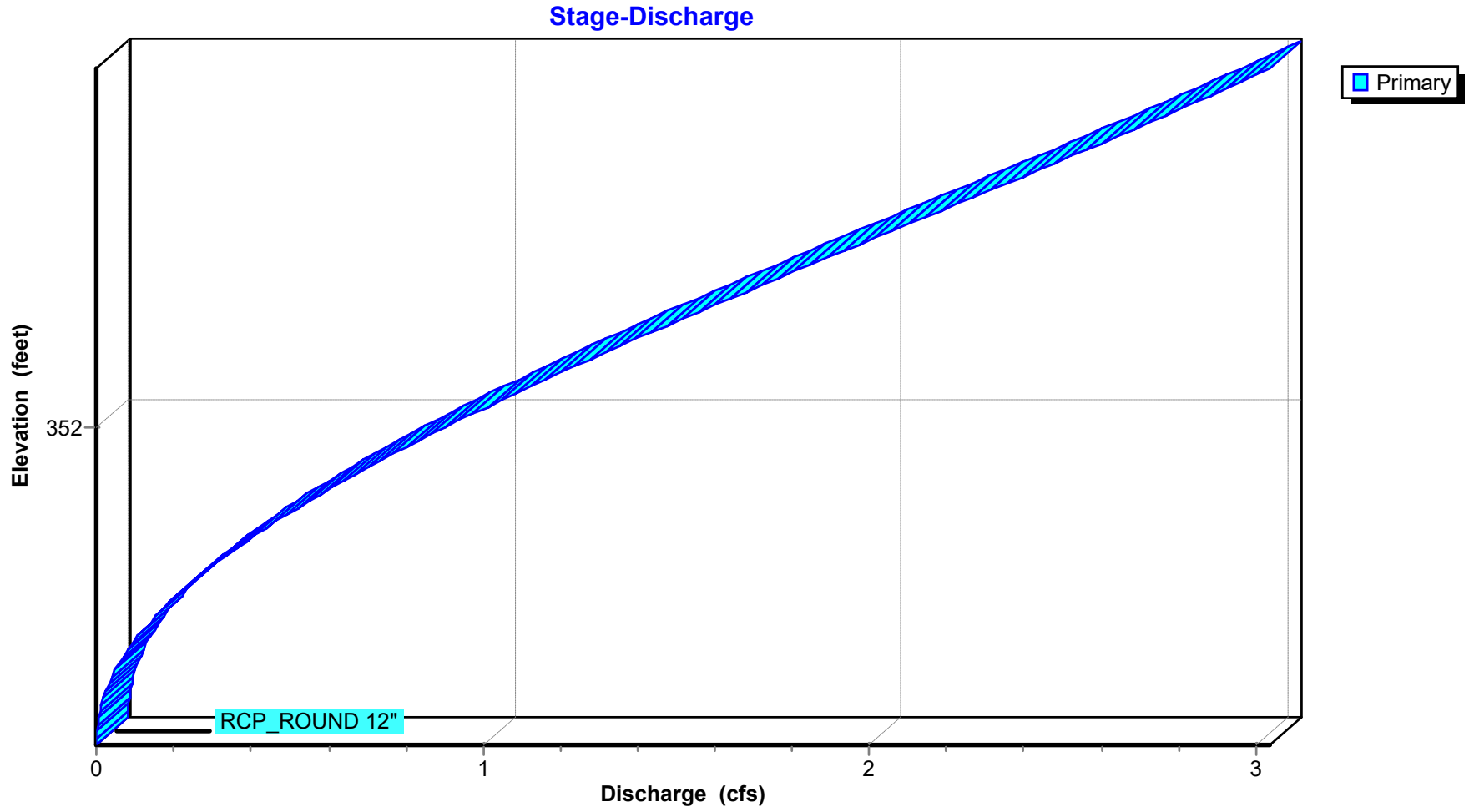
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000		
351.63	0.000		
351.64	0.000		
351.65	0.000		
351.66	0.000		
351.67	0.000		
351.68	0.000		
351.69	0.000		
351.70	0.000		
351.71	0.000		
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 0.90" for 10-yr event
Inflow = 3.53 cfs @ 0.10 hrs, Volume= 0.107 af
Outflow = 3.53 cfs @ 0.09 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 3.53 cfs @ 0.09 hrs, Volume= 0.107 af
Routed to Link POST-DEV : Post-Development

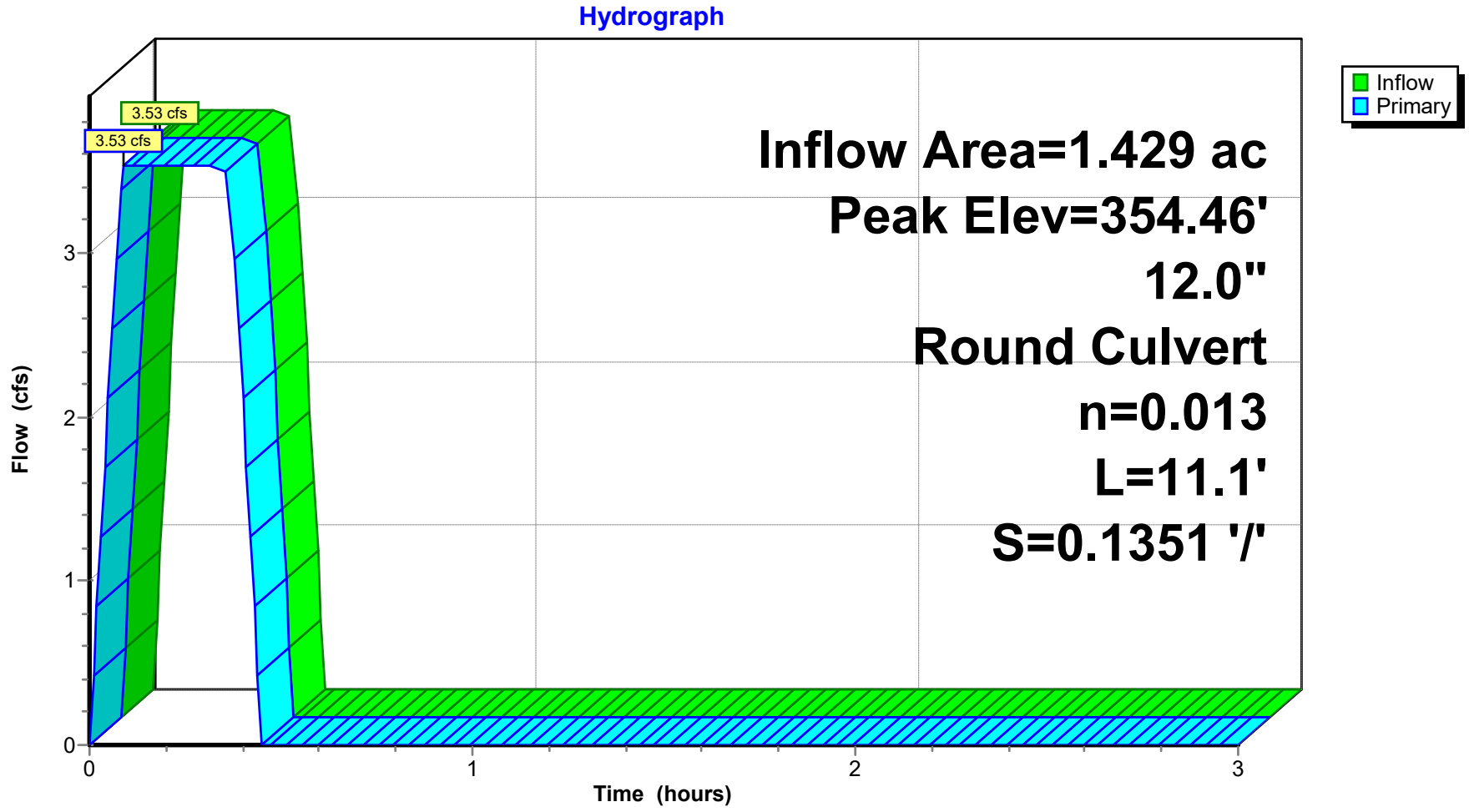
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.46' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.53 cfs @ 0.09 hrs HW=354.46' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 3.53 cfs @ 4.55 fps)

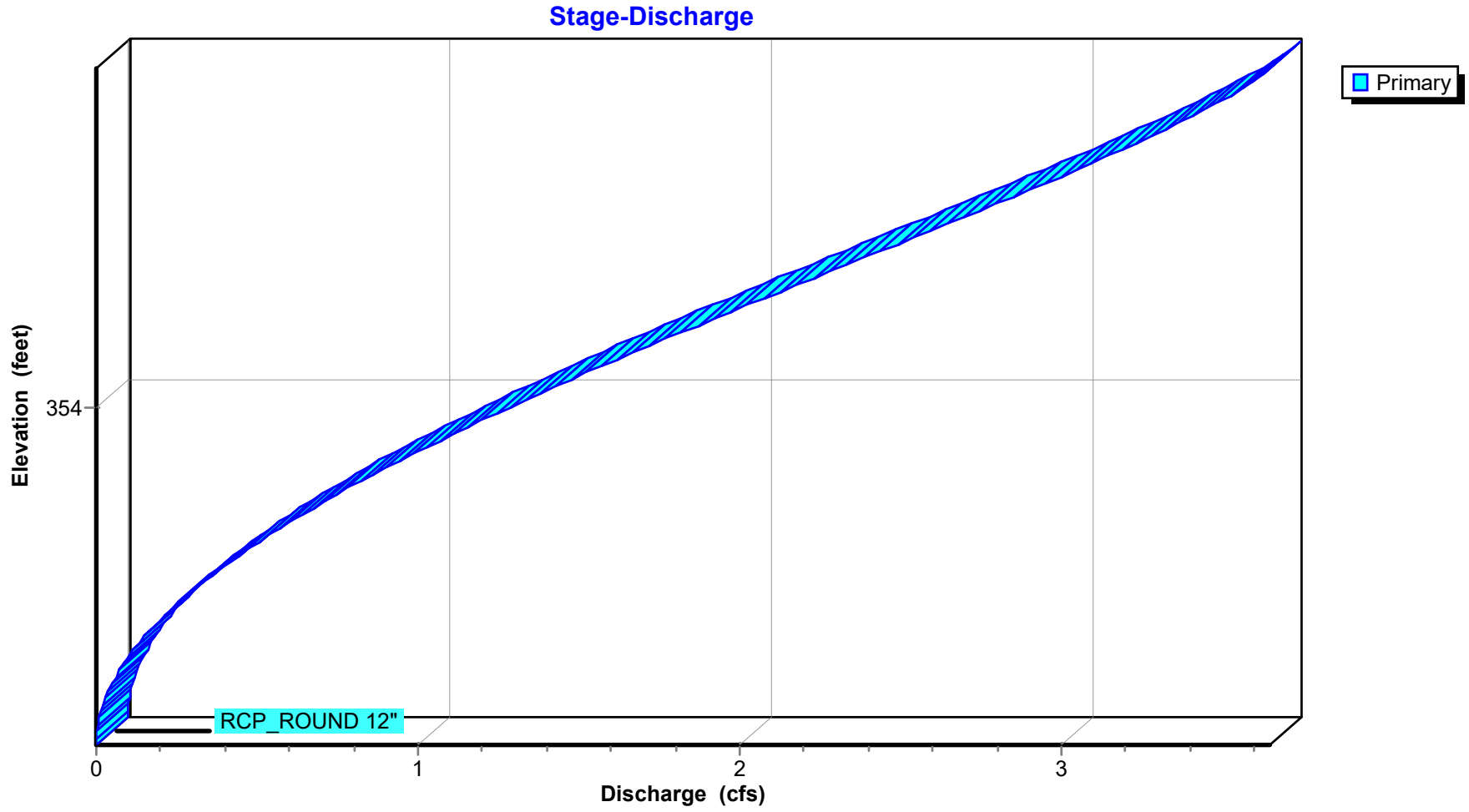
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000		
353.60	0.000		
353.61	0.000		
353.62	0.000		
353.63	0.000		
353.64	0.000		
353.65	0.000		
353.66	0.000		
353.67	0.000		
353.68	0.000		
353.69	0.000		
353.70	0.000		
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
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354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 0.89" for 10-yr event
Inflow = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af
Outflow = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 1.54 cfs @ 0.09 hrs, Volume= 0.047 af
Routed to Pond CI-C4 : CURB INLET C4

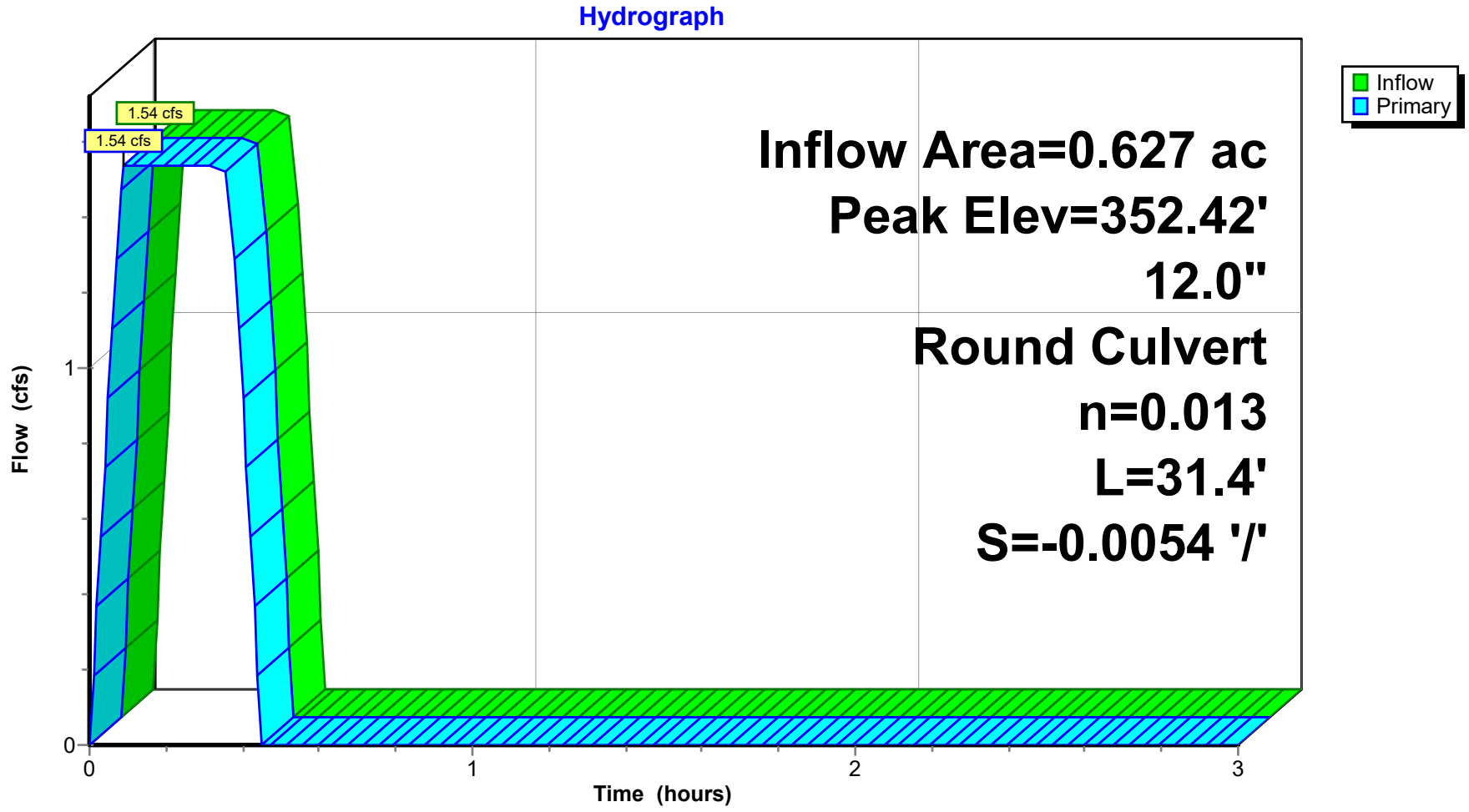
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.42' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.54 cfs @ 0.09 hrs HW=352.42' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 1.54 cfs @ 2.75 fps)

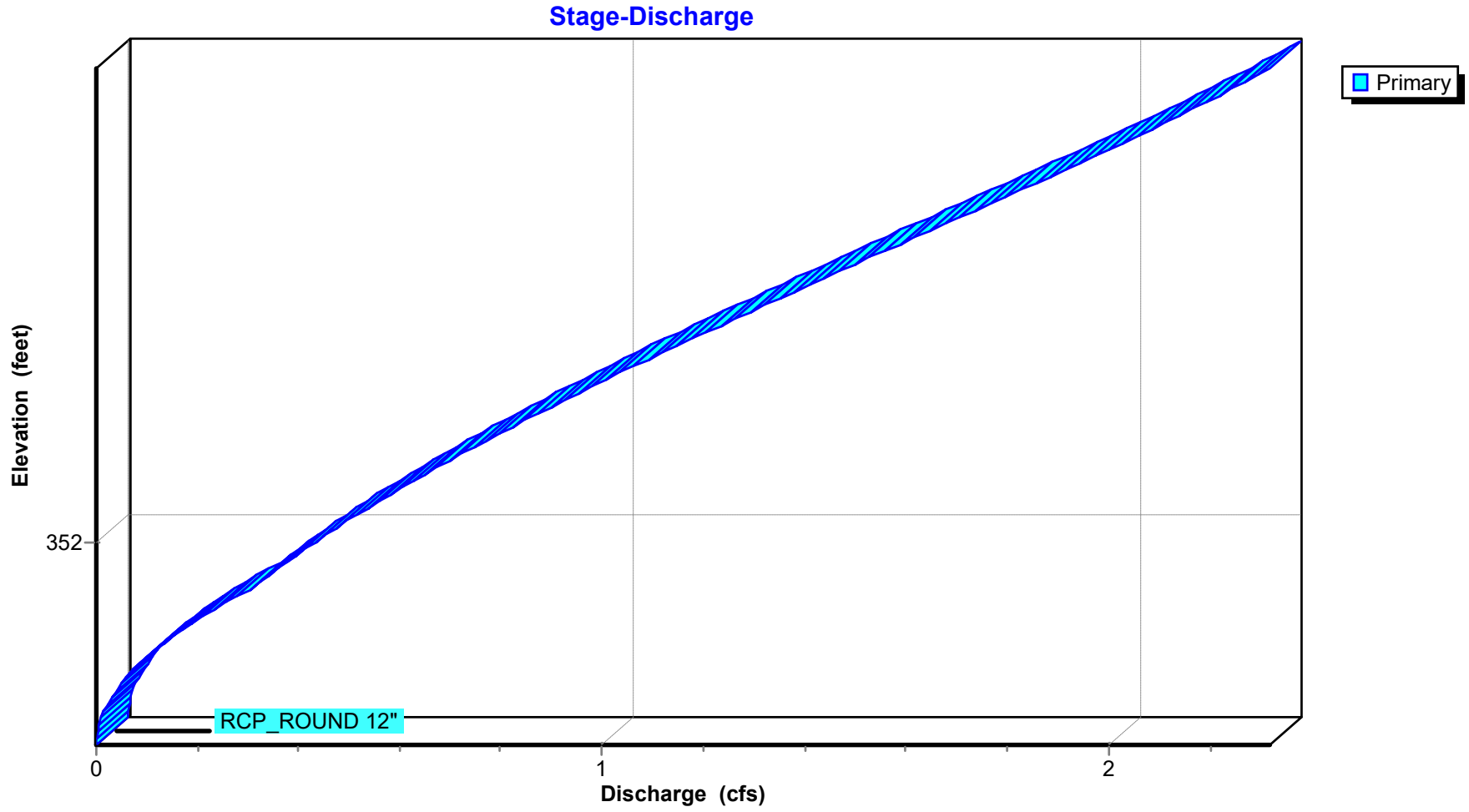
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
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352.25	0.000		
352.26	0.000		
352.27	0.000		
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352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 0.92" for 10-yr event
Inflow = 0.62 cfs @ 0.09 hrs, Volume= 0.019 af
Outflow = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.6 min
Primary = 0.62 cfs @ 0.10 hrs, Volume= 0.019 af
Routed to Pond CI-C4 : CURB INLET C4

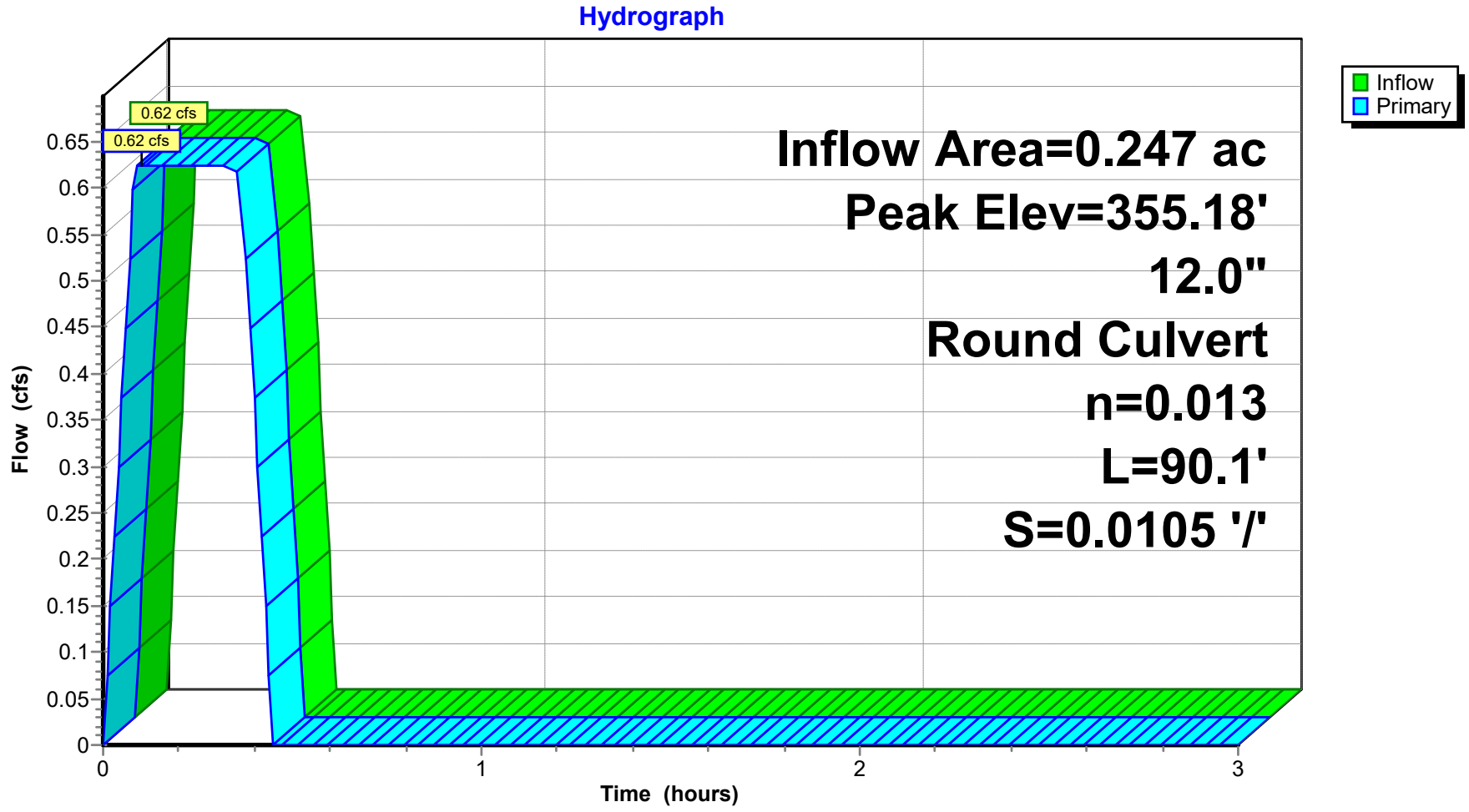
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.18' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 0.10 hrs HW=355.18' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.62 cfs @ 3.34 fps)

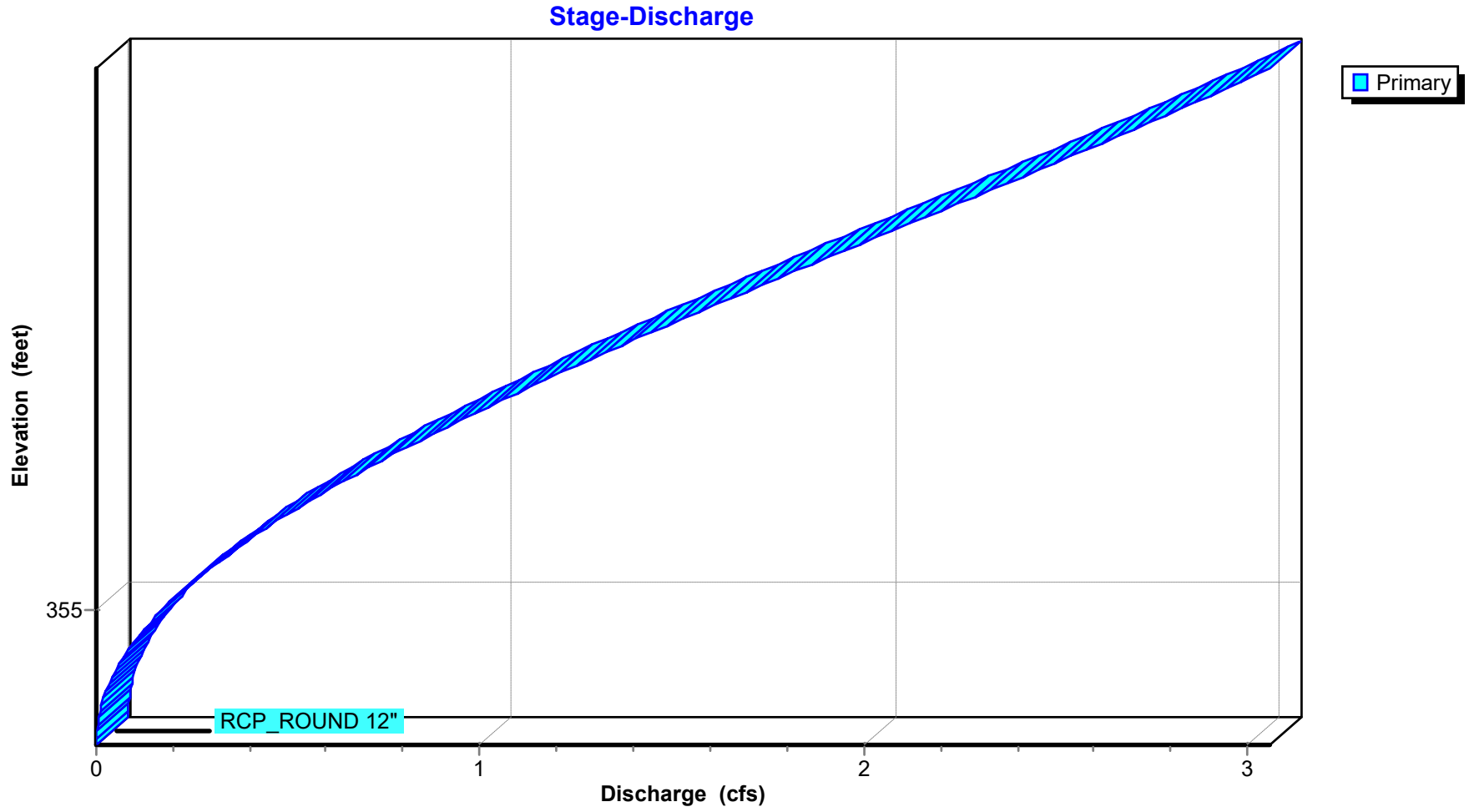
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

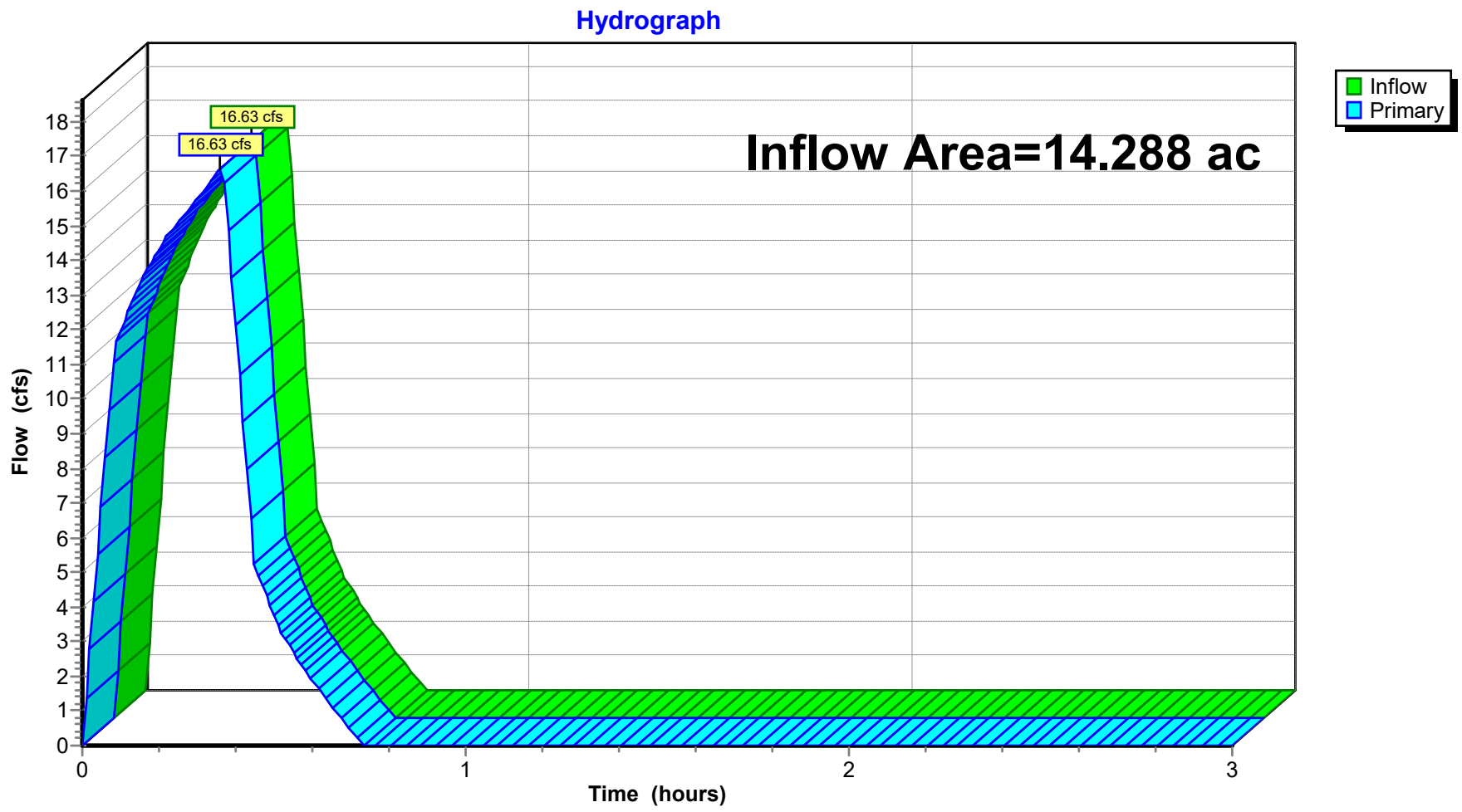
Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.42" for 10-yr event
Inflow = 16.63 cfs @ 0.36 hrs, Volume= 0.506 af
Primary = 16.63 cfs @ 0.36 hrs, Volume= 0.506 af, Atten= 0%, Lag= 0.0 min

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

Link POST-DEV: Post-Development



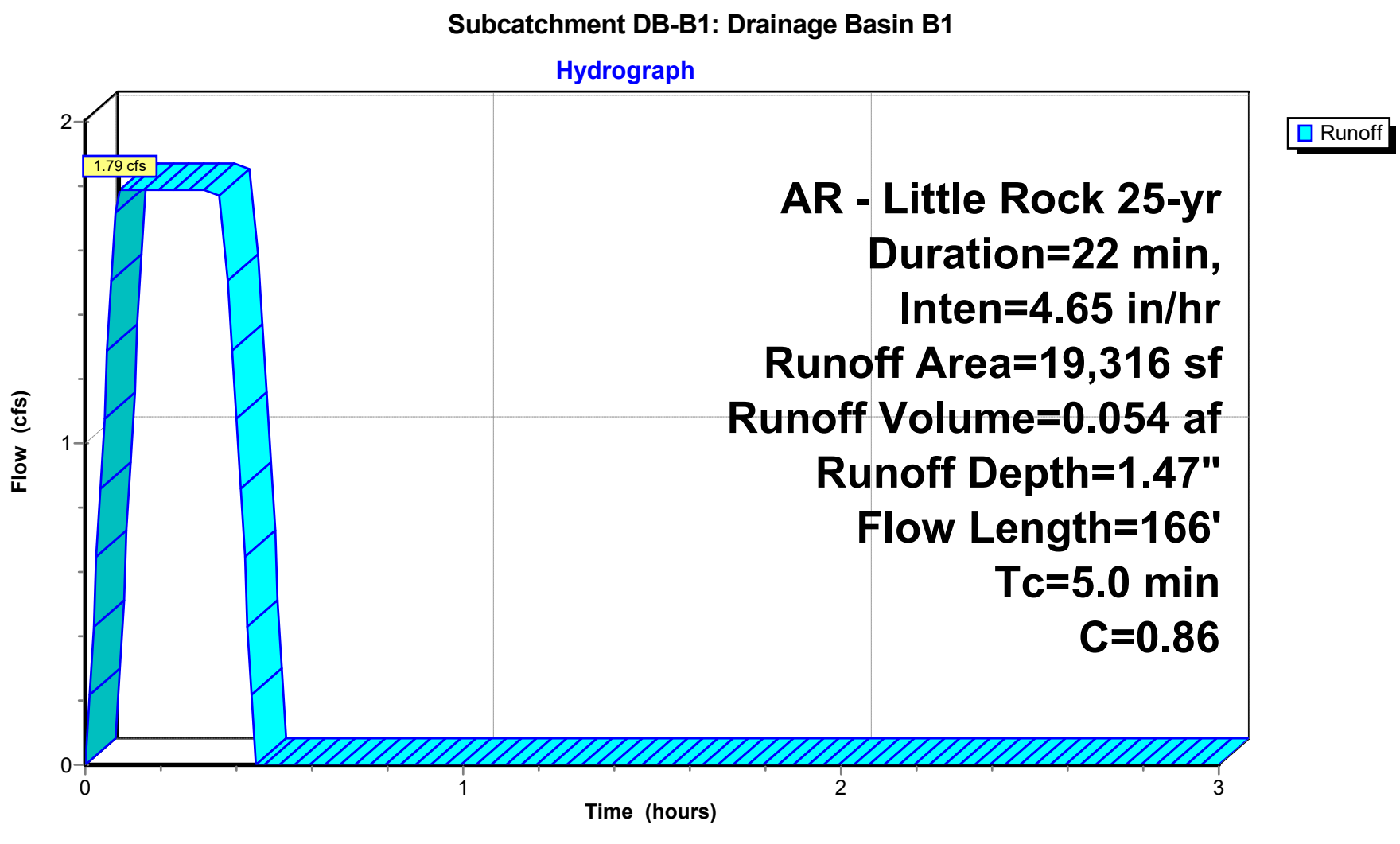
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 1.79 cfs @ 0.09 hrs, Volume= 0.054 af, Depth= 1.47"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

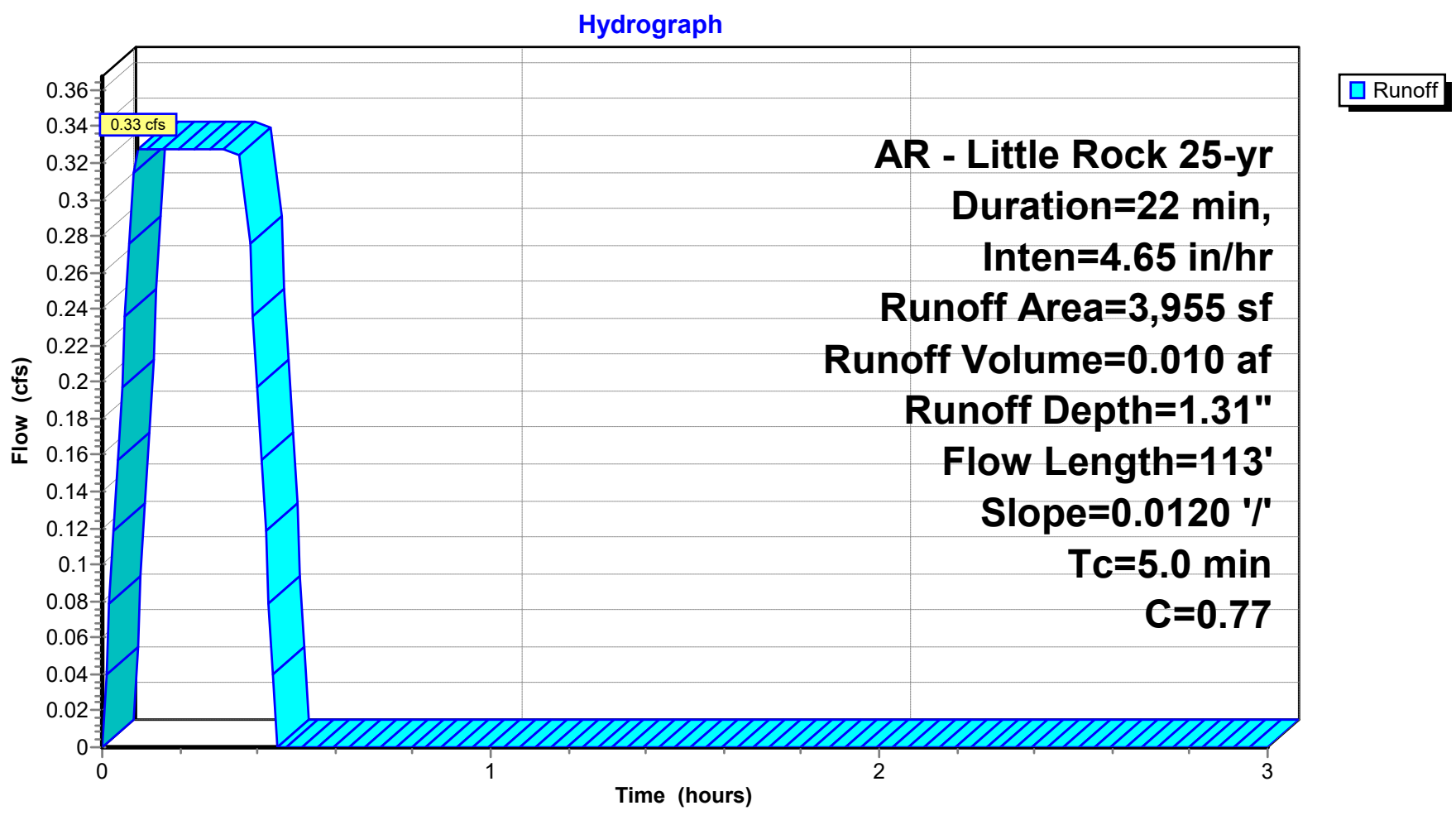
Runoff = 0.33 cfs @ 0.09 hrs, Volume= 0.010 af, Depth= 1.31"
Routed to Pond CI-C4 : CURB INLET C4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10



Summary for Subcatchment DB-B11: Drainage Basin B11

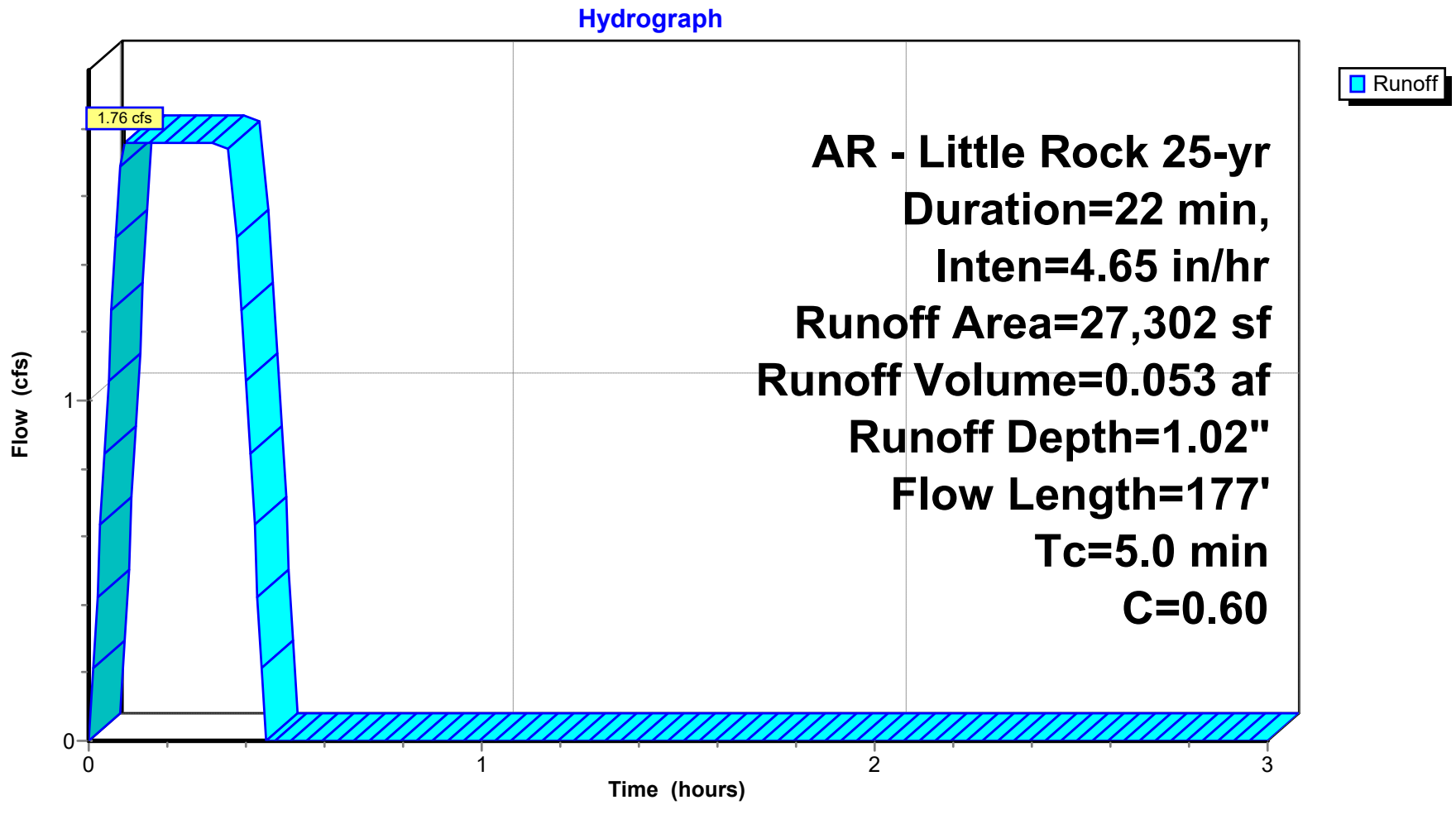
Runoff = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af, Depth= 1.02"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof**
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace**
					Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			

Subcatchment DB-B11: Drainage Basin B11



Summary for Subcatchment DB-B12: Drainage Basin B12

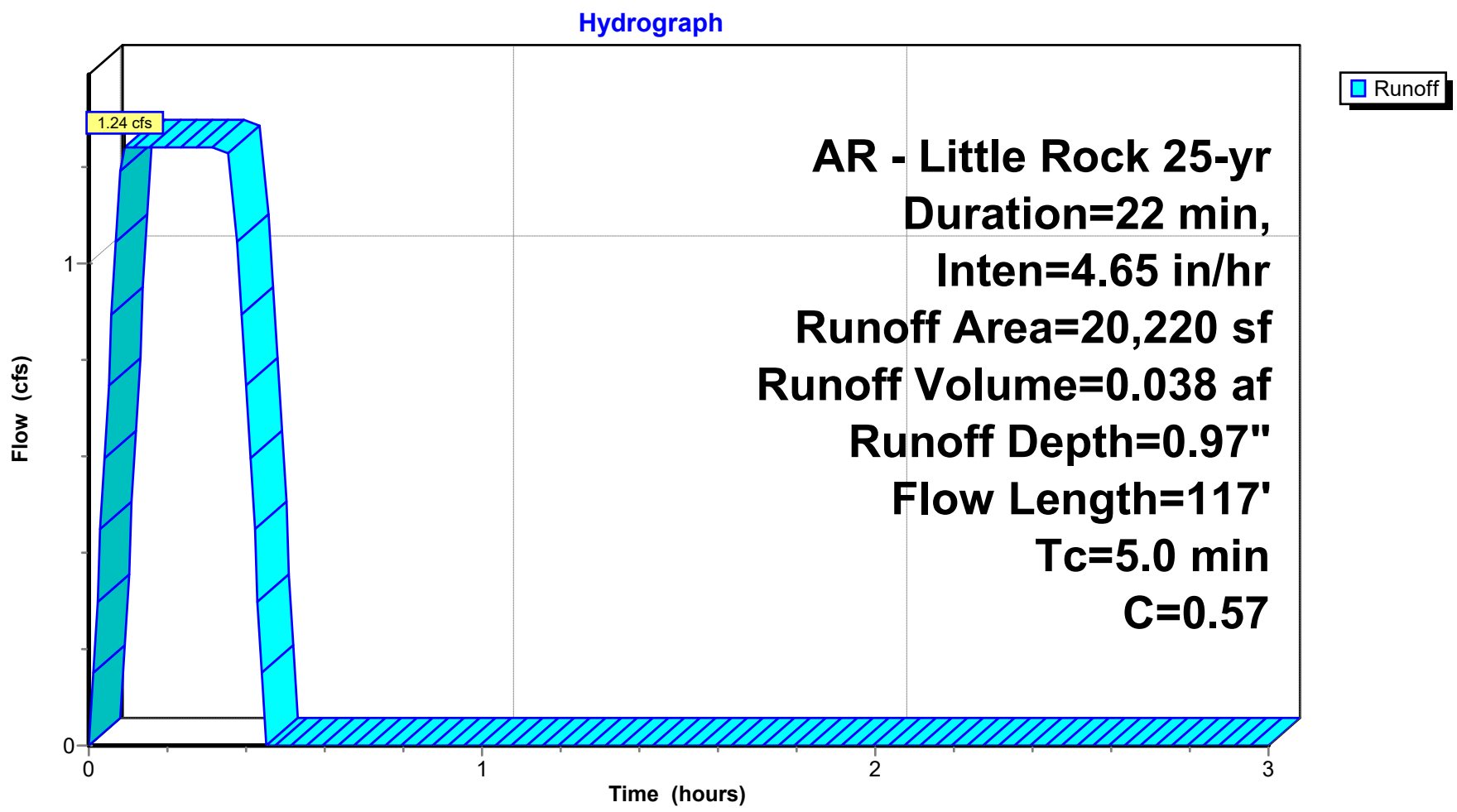
Runoff = 1.24 cfs @ 0.09 hrs, Volume= 0.038 af, Depth= 0.97"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			

Subcatchment DB-B12: Drainage Basin B12



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

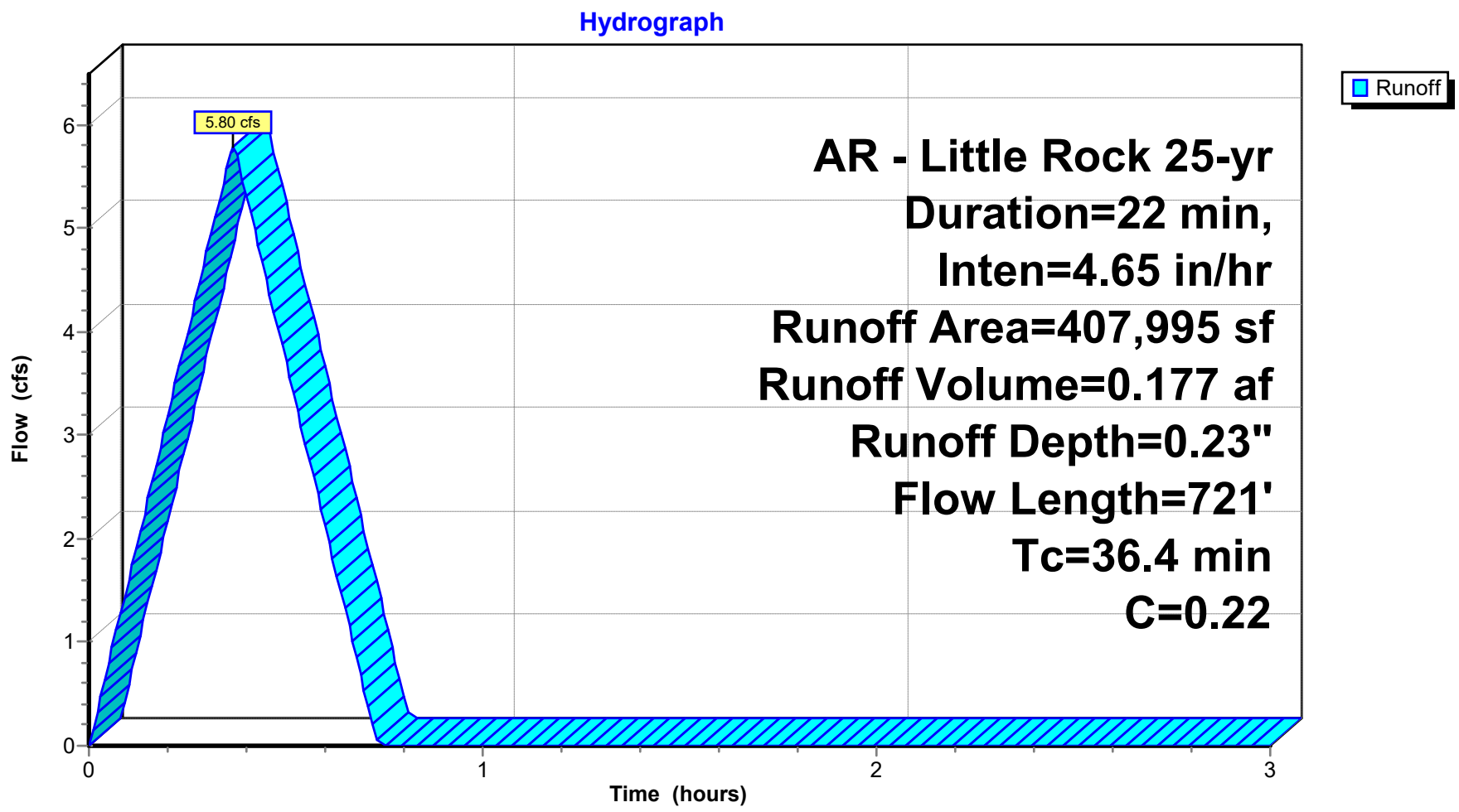
Runoff = 5.80 cfs @ 0.37 hrs, Volume= 0.177 af, Depth= 0.23"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13



Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

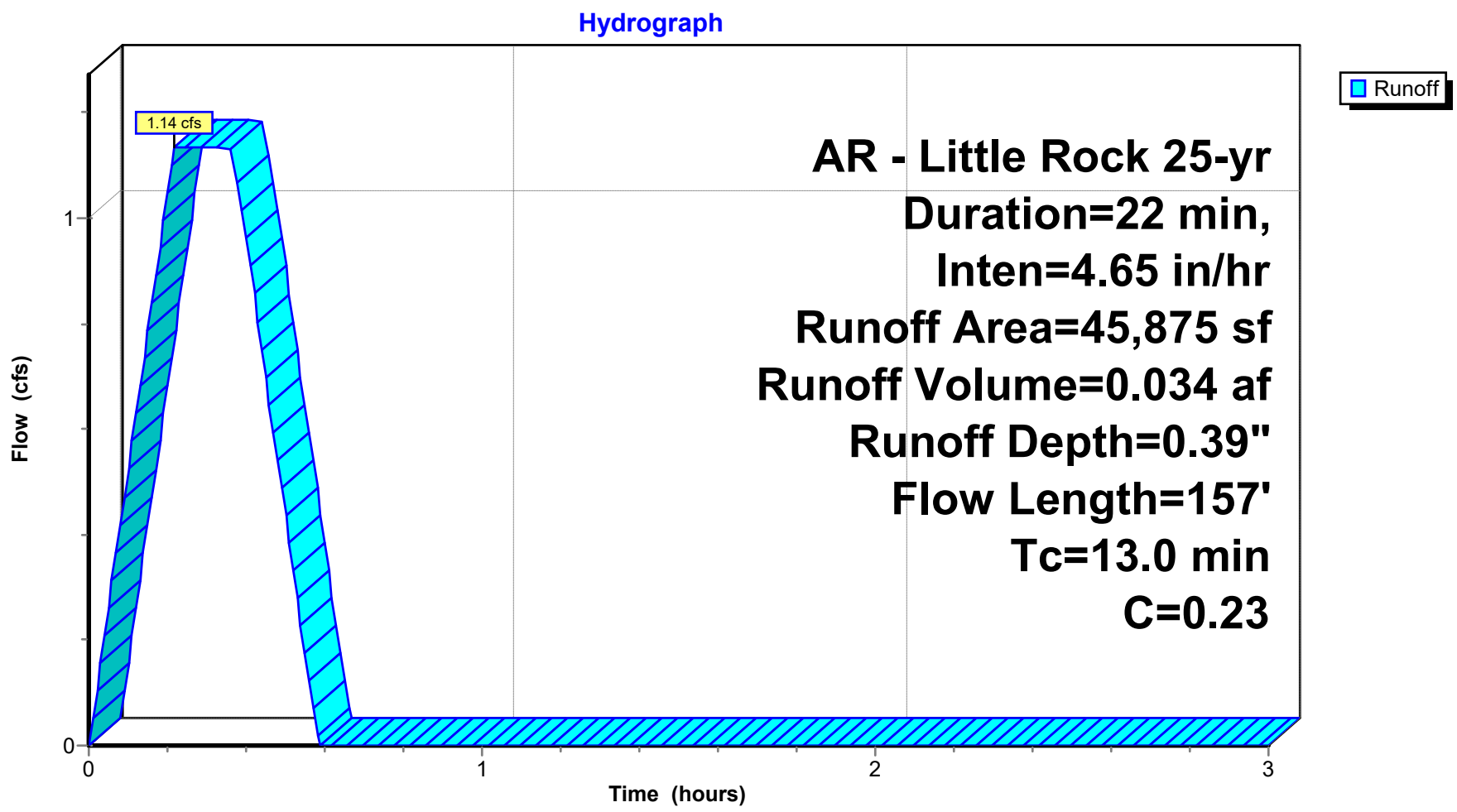
Runoff = 1.14 cfs @ 0.22 hrs, Volume= 0.034 af, Depth= 0.39"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			

Subcatchment DB-B14: DRAINAGE BASIN B14



Summary for Subcatchment DB-B2: Drainage Basin B2

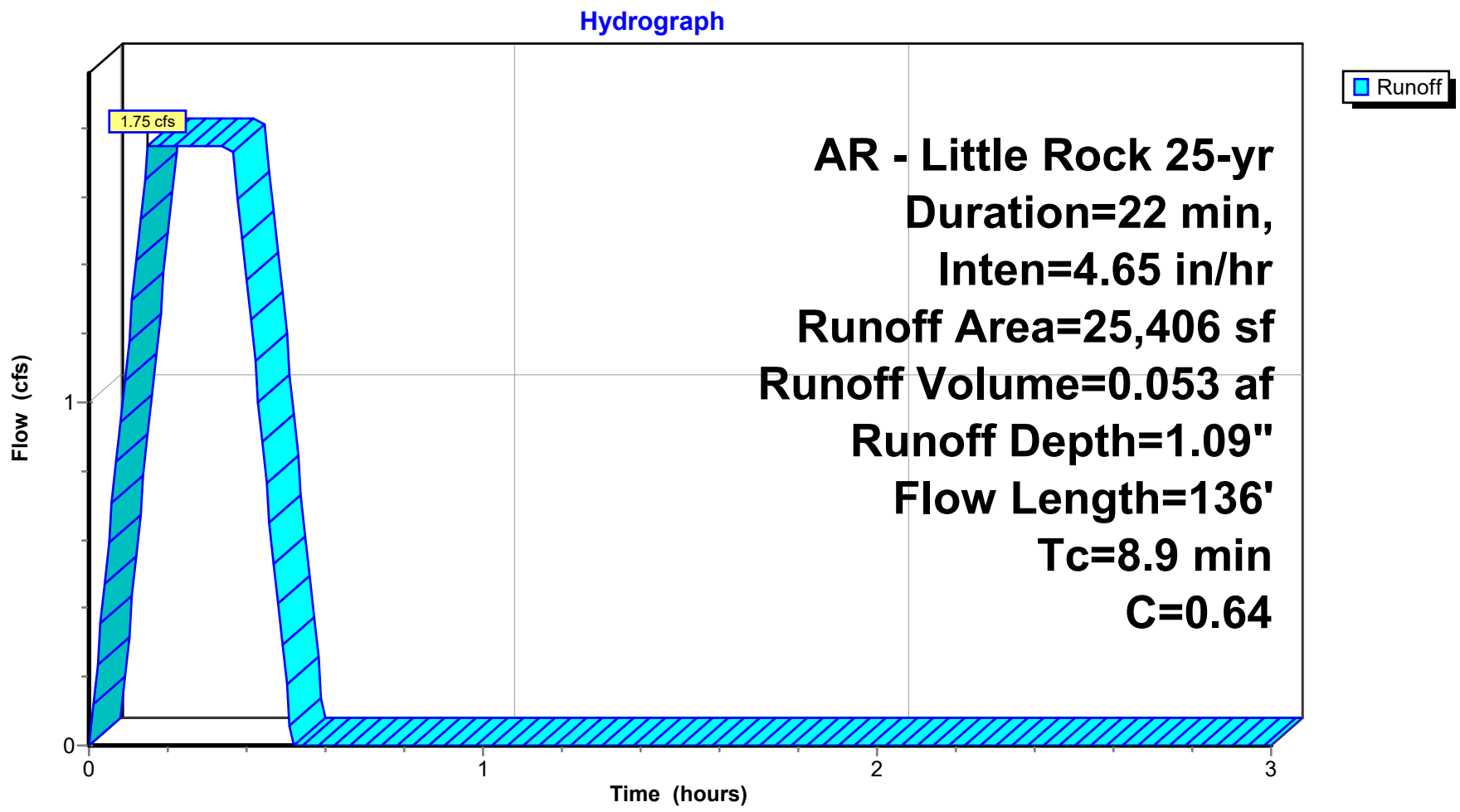
Runoff = 1.75 cfs @ 0.15 hrs, Volume= 0.053 af, Depth= 1.09"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



Summary for Subcatchment DB-B3: Drainage Basin B3

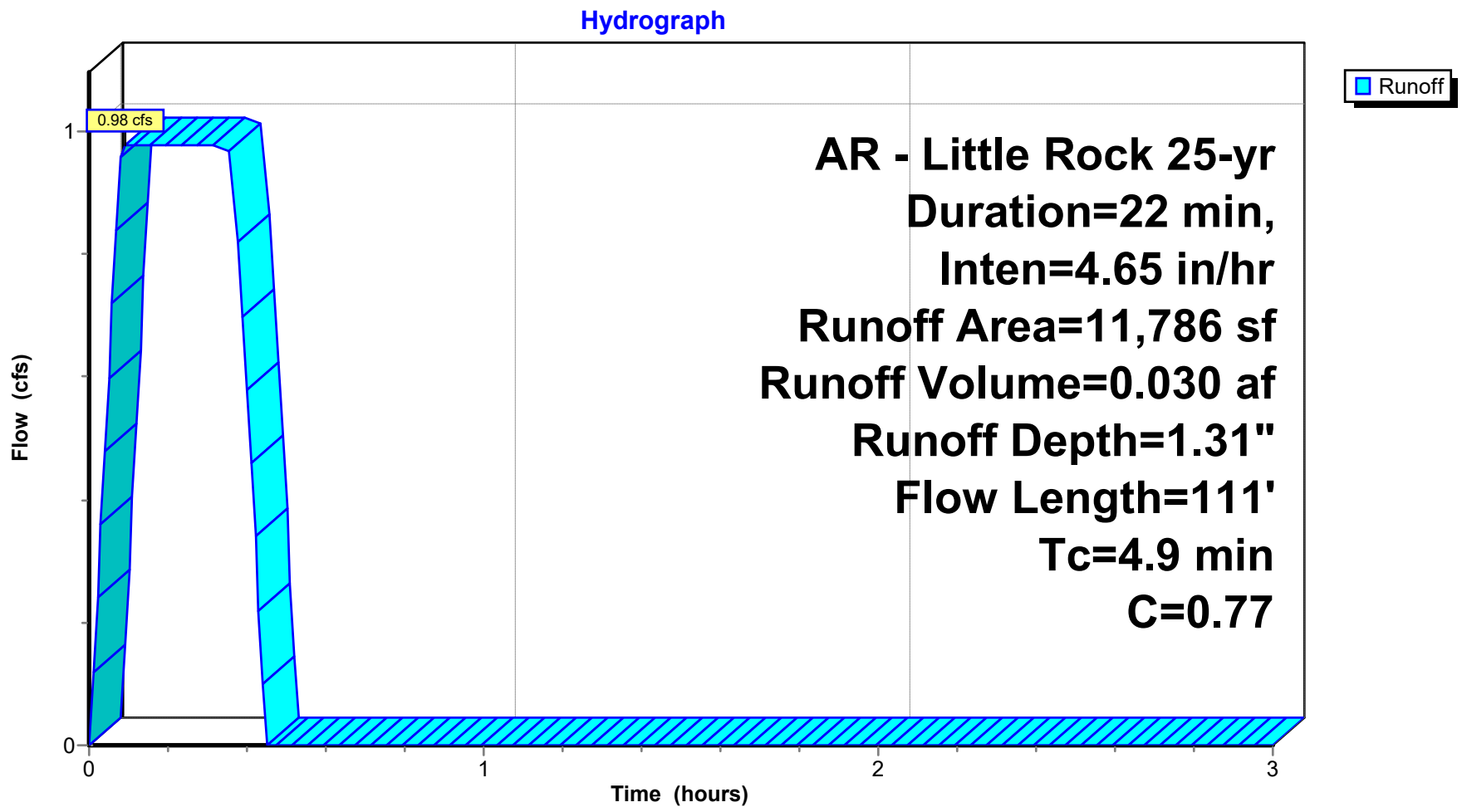
Runoff = 0.98 cfs @ 0.09 hrs, Volume= 0.030 af, Depth= 1.31"
Routed to Pond CI-A3 : CURB INLET A3

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3



Summary for Subcatchment DB-B4: Drainage Basin B4

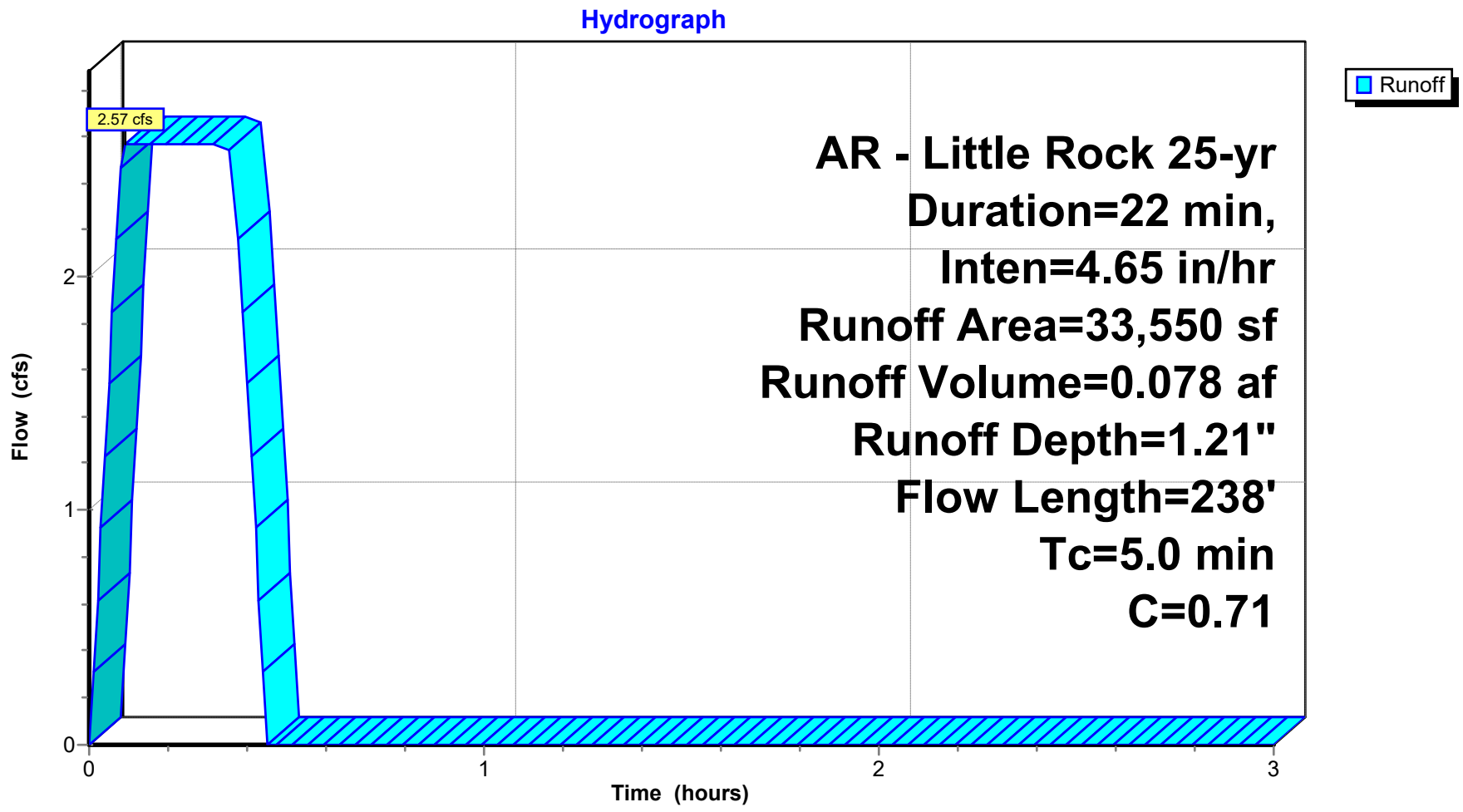
Runoff = 2.57 cfs @ 0.09 hrs, Volume= 0.078 af, Depth= 1.21"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



Summary for Subcatchment DB-B5: Drainage Basin B5

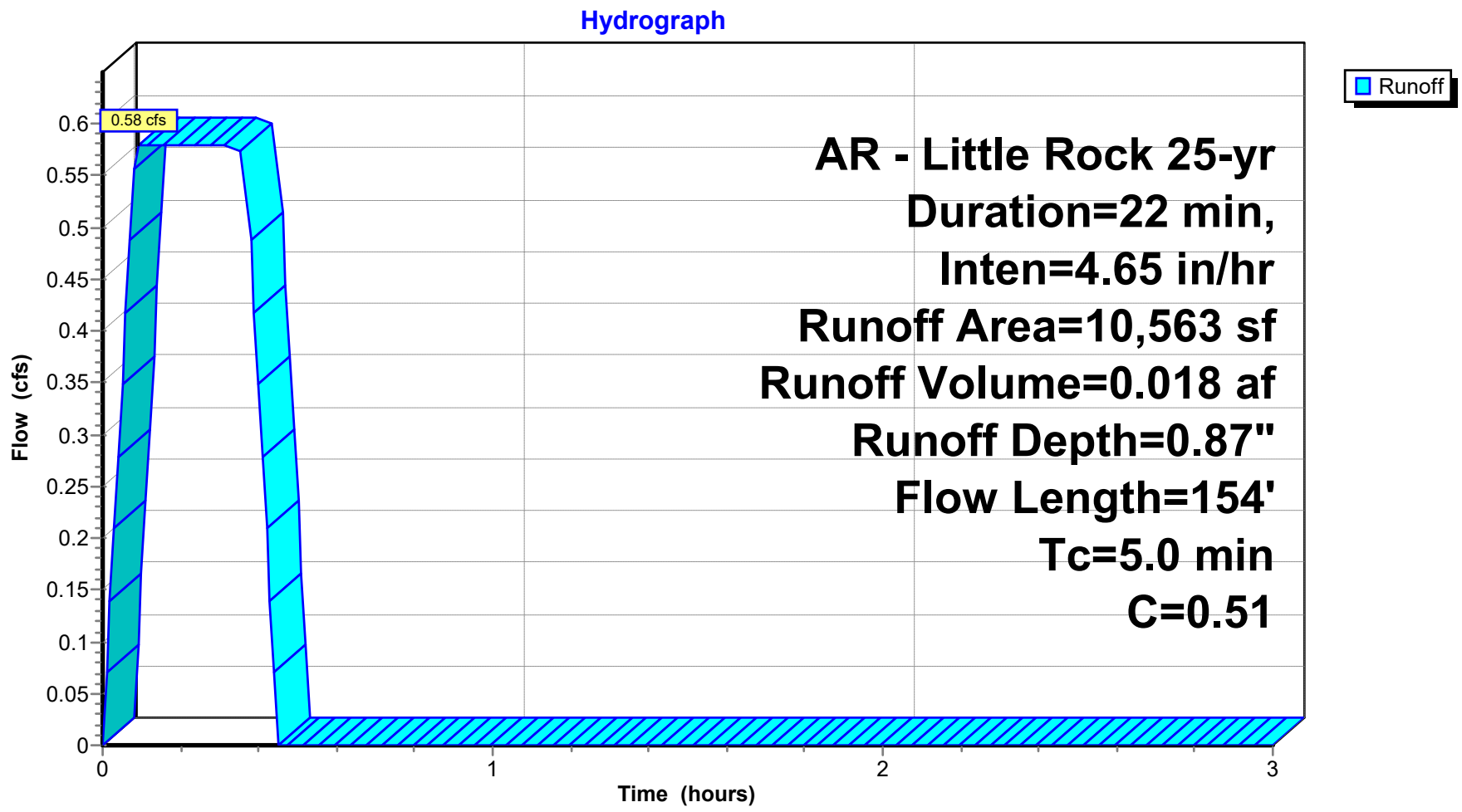
Runoff = 0.58 cfs @ 0.09 hrs, Volume= 0.018 af, Depth= 0.87"
Routed to Pond CI-A5 : CURB INLET A5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			

Subcatchment DB-B5: Drainage Basin B5



Summary for Subcatchment DB-B6: Drainage Basin B6

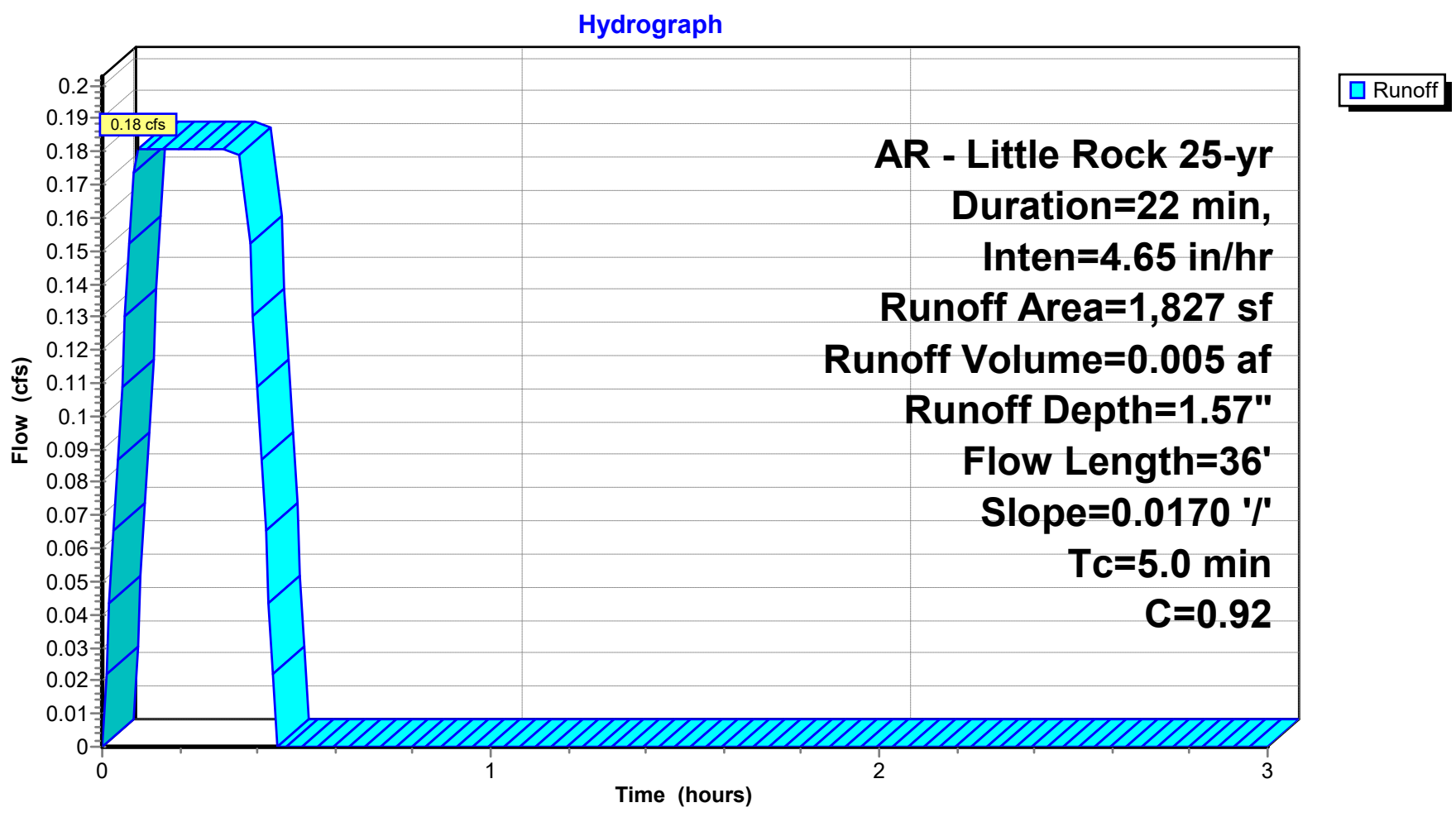
Runoff = 0.18 cfs @ 0.09 hrs, Volume= 0.005 af, Depth= 1.57"
Routed to Pond AI-B1 : AREA INLET B1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6



Summary for Subcatchment DB-B7: Drainage Basin B7

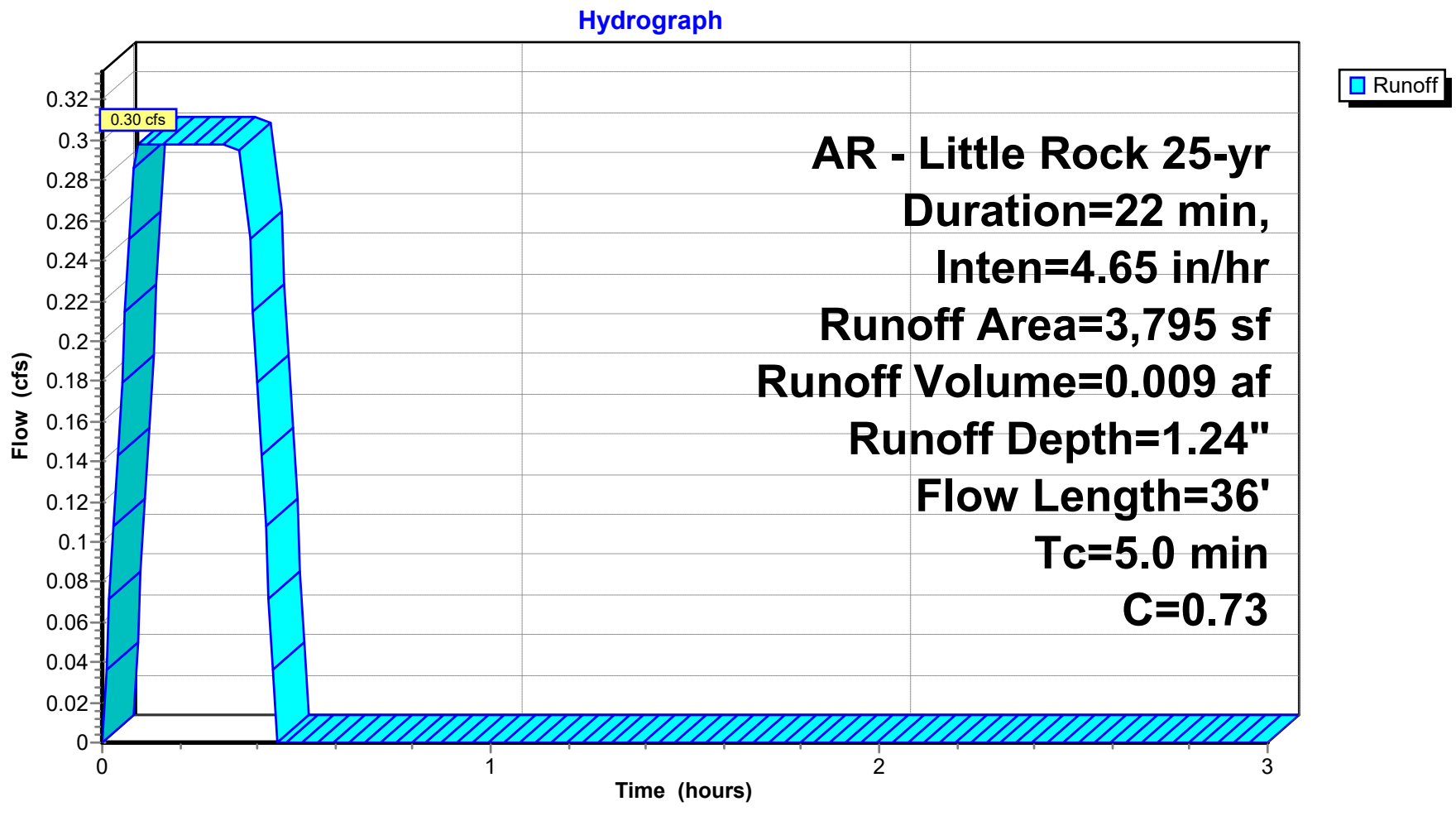
Runoff = 0.30 cfs @ 0.09 hrs, Volume= 0.009 af, Depth= 1.24"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



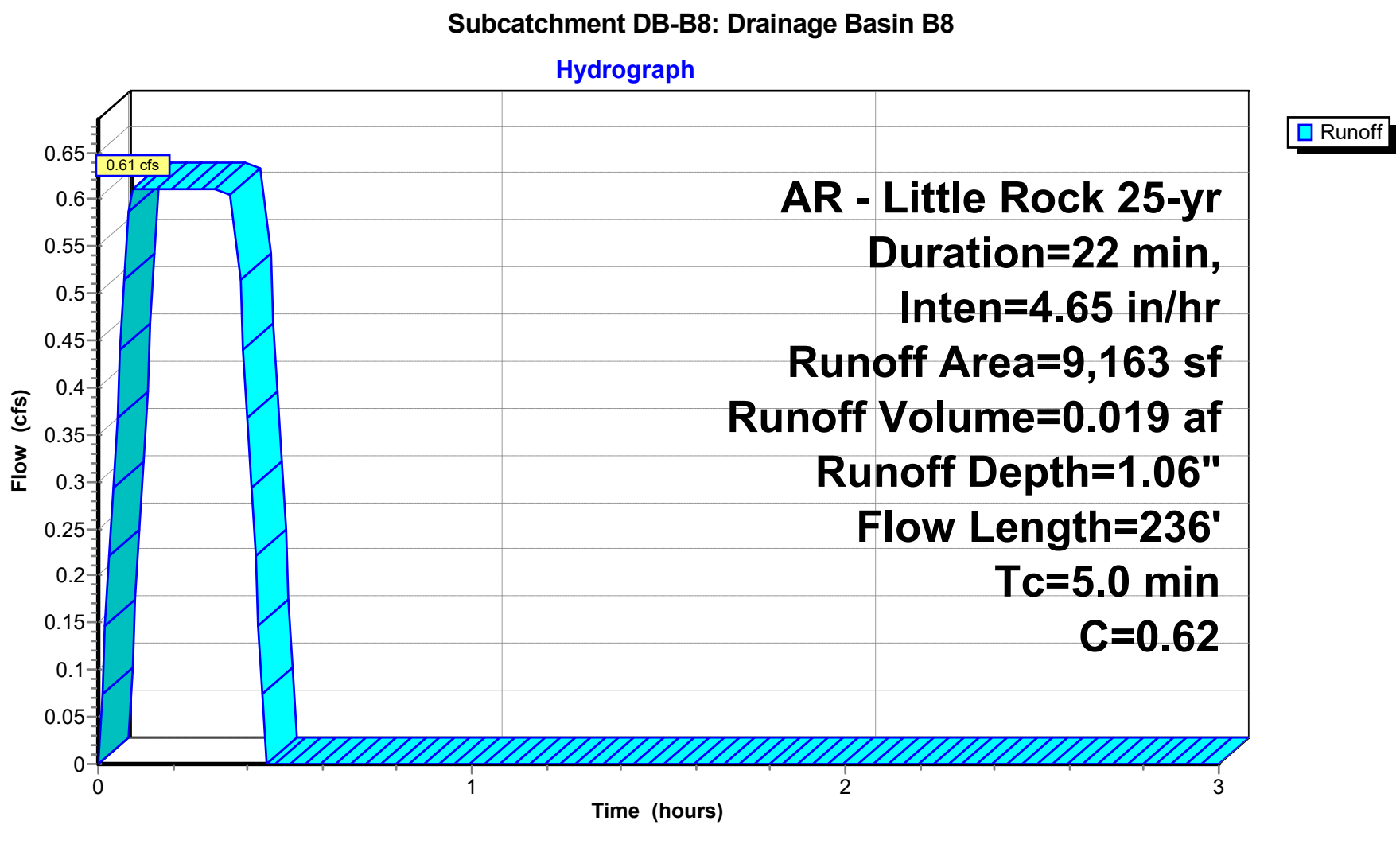
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af, Depth= 1.06"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



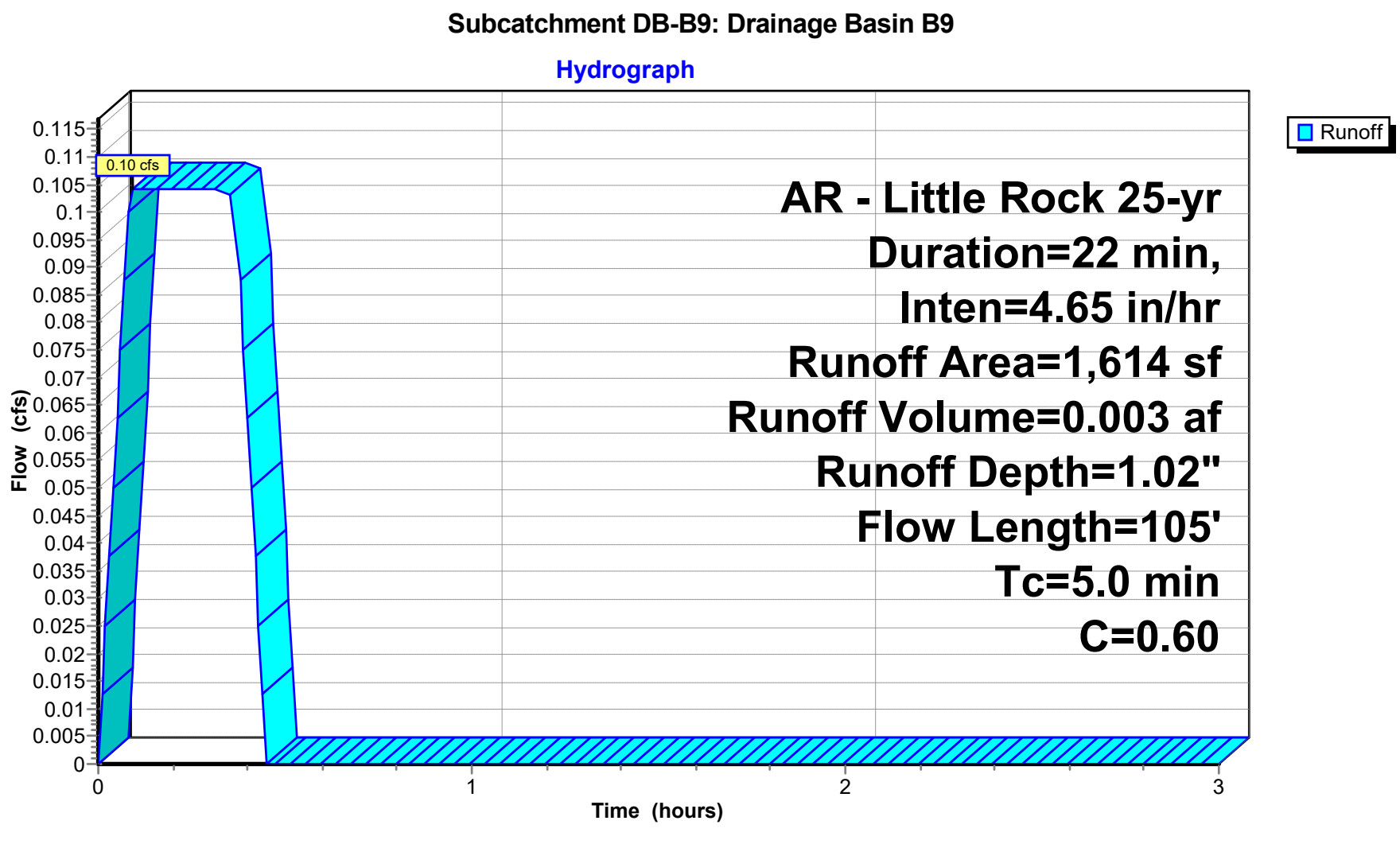
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.10 cfs @ 0.09 hrs, Volume= 0.003 af, Depth= 1.02"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 25-yr Duration=22 min, Inten=4.65 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.57" for 25-yr event
Inflow = 0.18 cfs @ 0.09 hrs, Volume= 0.005 af
Outflow = 0.18 cfs @ 0.10 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.6 min
Primary = 0.18 cfs @ 0.10 hrs, Volume= 0.005 af
Routed to Pond AI-B2 : AREA INLET B2

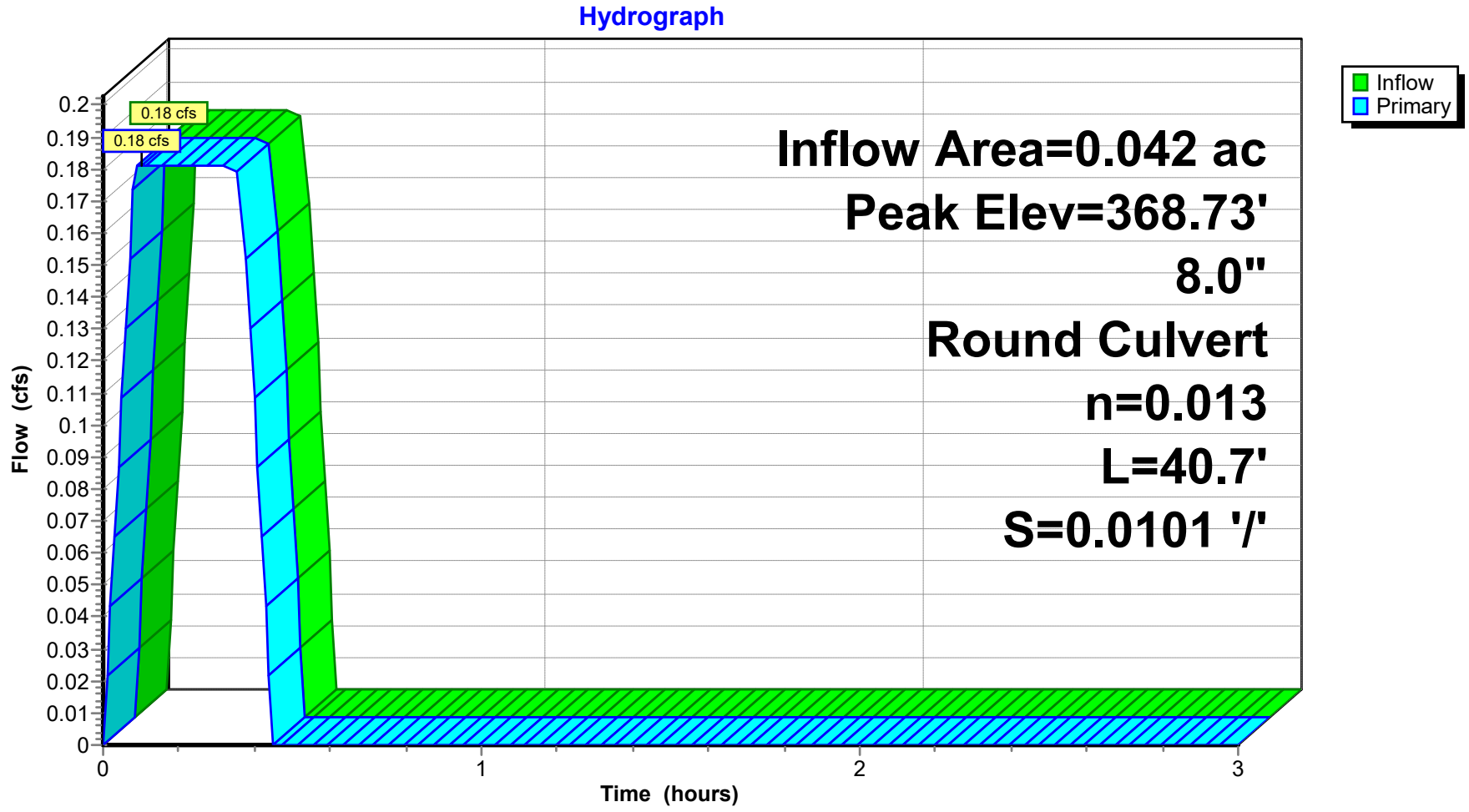
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.73' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.18 cfs @ 0.10 hrs HW=368.73' (Free Discharge)
└**1=HDPE 8"** (Barrel Controls 0.18 cfs @ 2.41 fps)

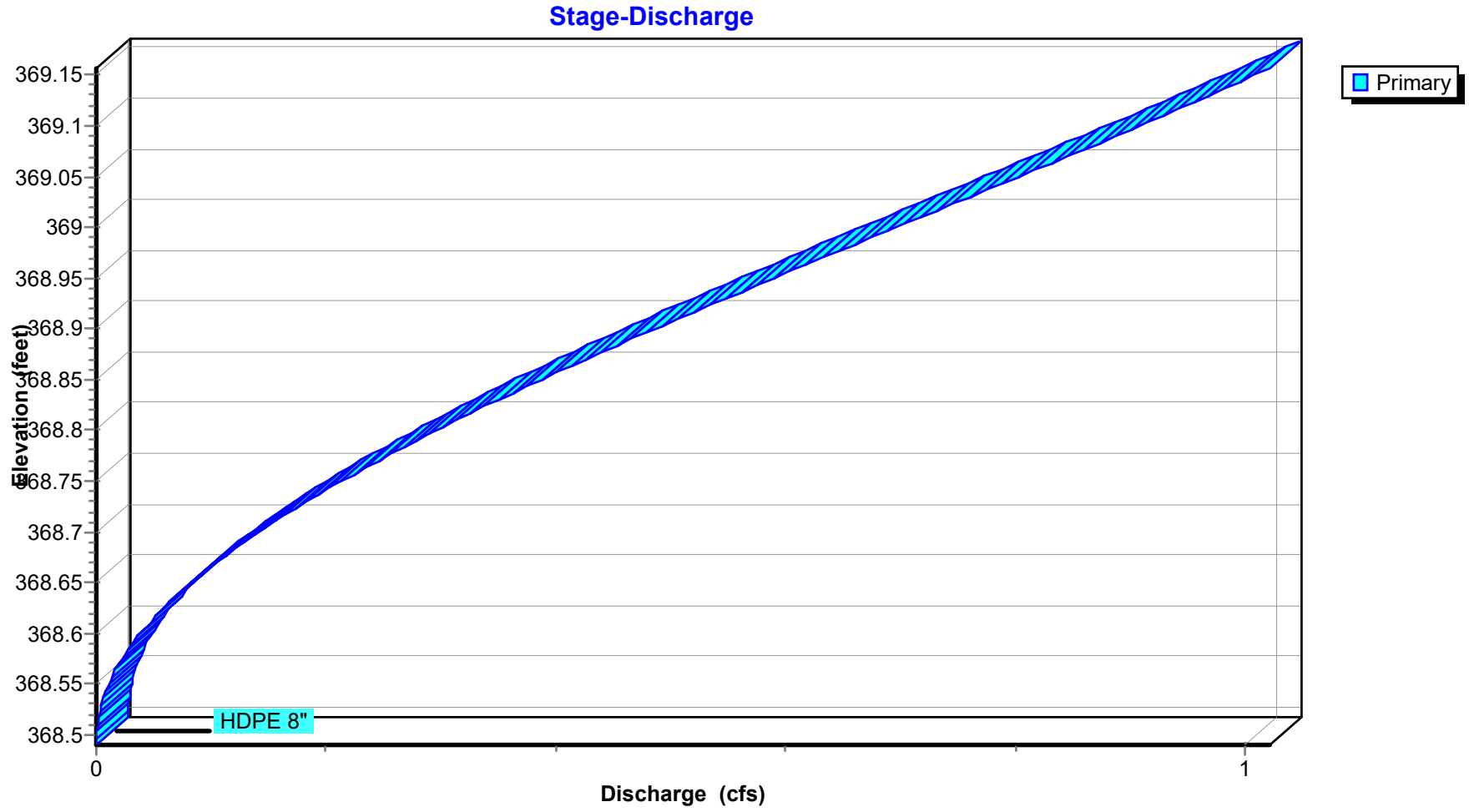
Pond AI-B1: AREA INLET B1

Hydrograph



Pond AI-B1: AREA INLET B1

Stage-Discharge



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.35" for 25-yr event
Inflow = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af
Outflow = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 0.09 hrs, Volume= 0.015 af
Routed to Pond CI-A2 : CURB INLET A2

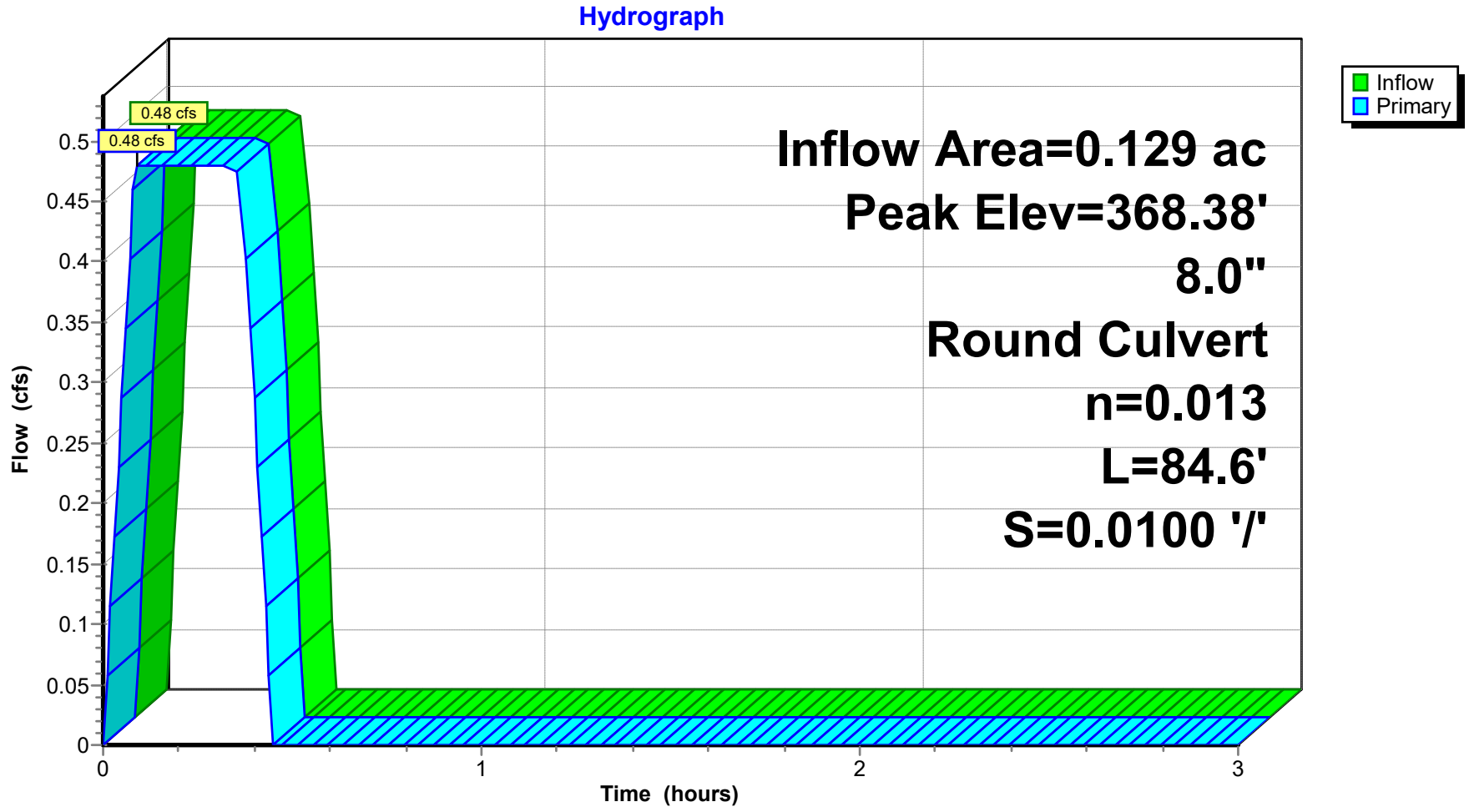
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.38' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.48 cfs @ 0.09 hrs HW=368.38' (Free Discharge)
└**1=HDPE** (Barrel Controls 0.48 cfs @ 3.16 fps)

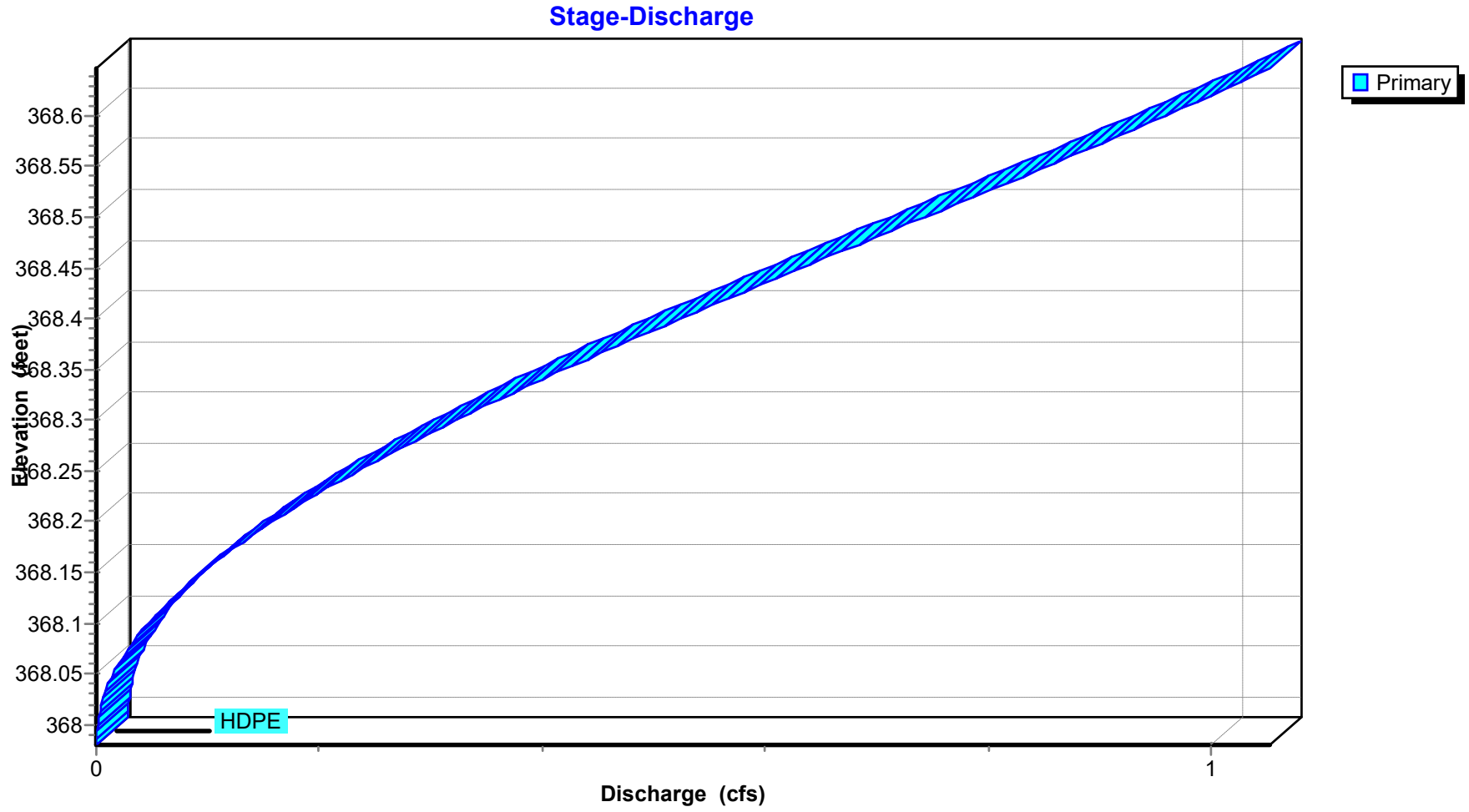
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.47" for 25-yr event
Inflow = 1.79 cfs @ 0.09 hrs, Volume= 0.054 af
Outflow = 1.79 cfs @ 0.10 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.6 min
Primary = 1.79 cfs @ 0.10 hrs, Volume= 0.054 af
Routed to Pond CI-A2 : CURB INLET A2

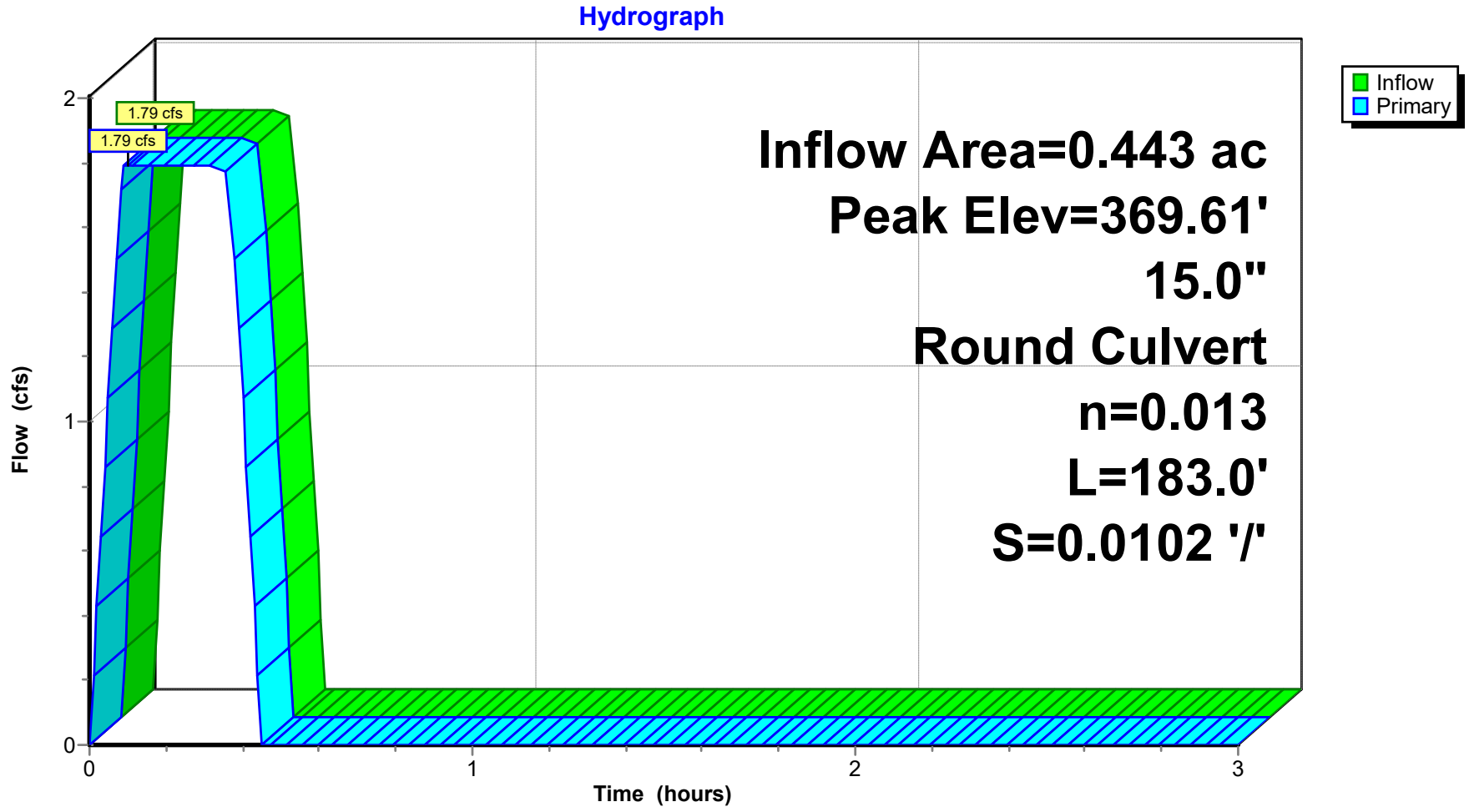
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.61' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=1.79 cfs @ 0.10 hrs HW=369.61' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 1.79 cfs @ 4.37 fps)

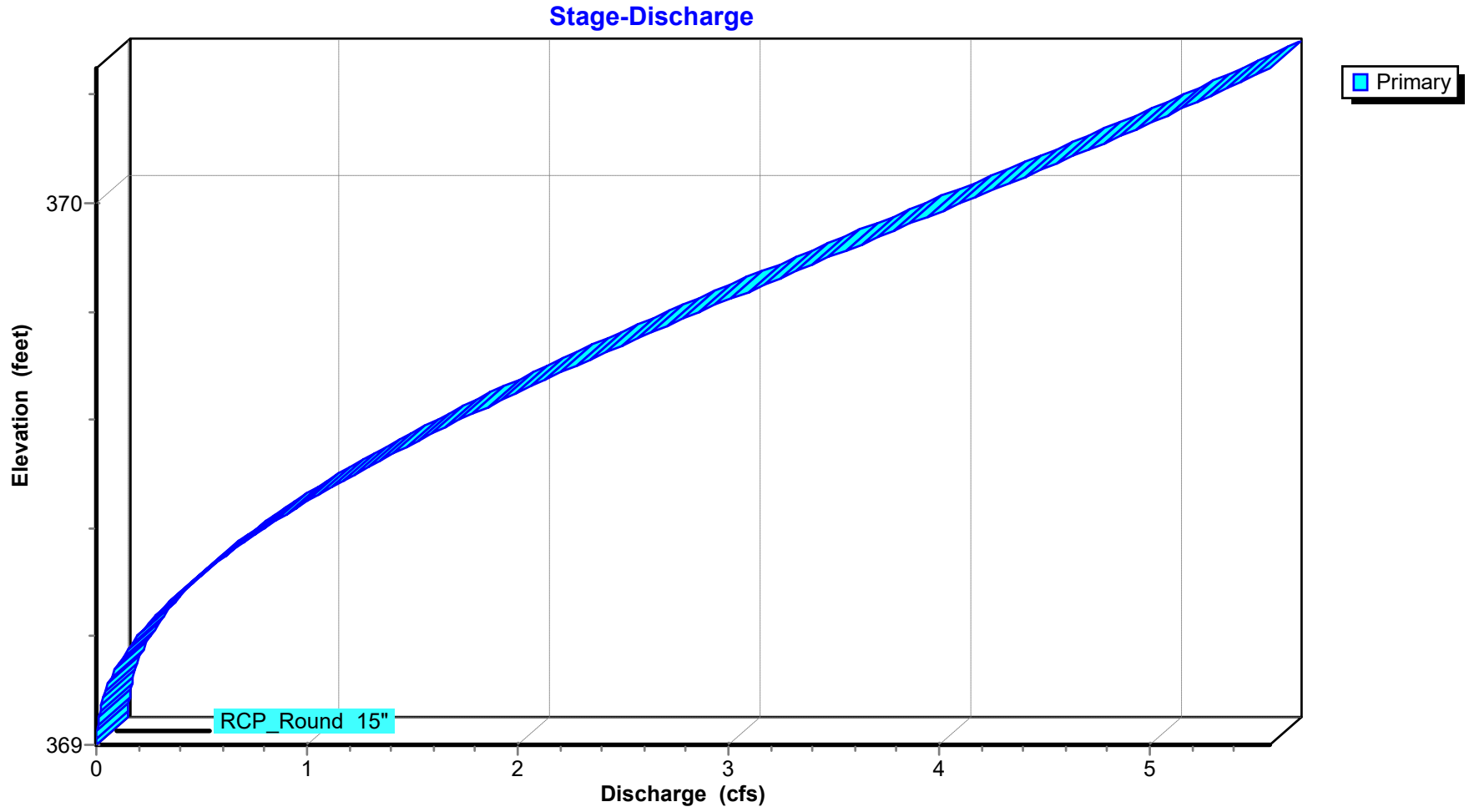
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.26" for 25-yr event
Inflow = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af
Outflow = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af, Atten= 0%, Lag= 0.0 min
Primary = 4.02 cfs @ 0.15 hrs, Volume= 0.122 af
Routed to Pond CI-A3 : CURB INLET A3

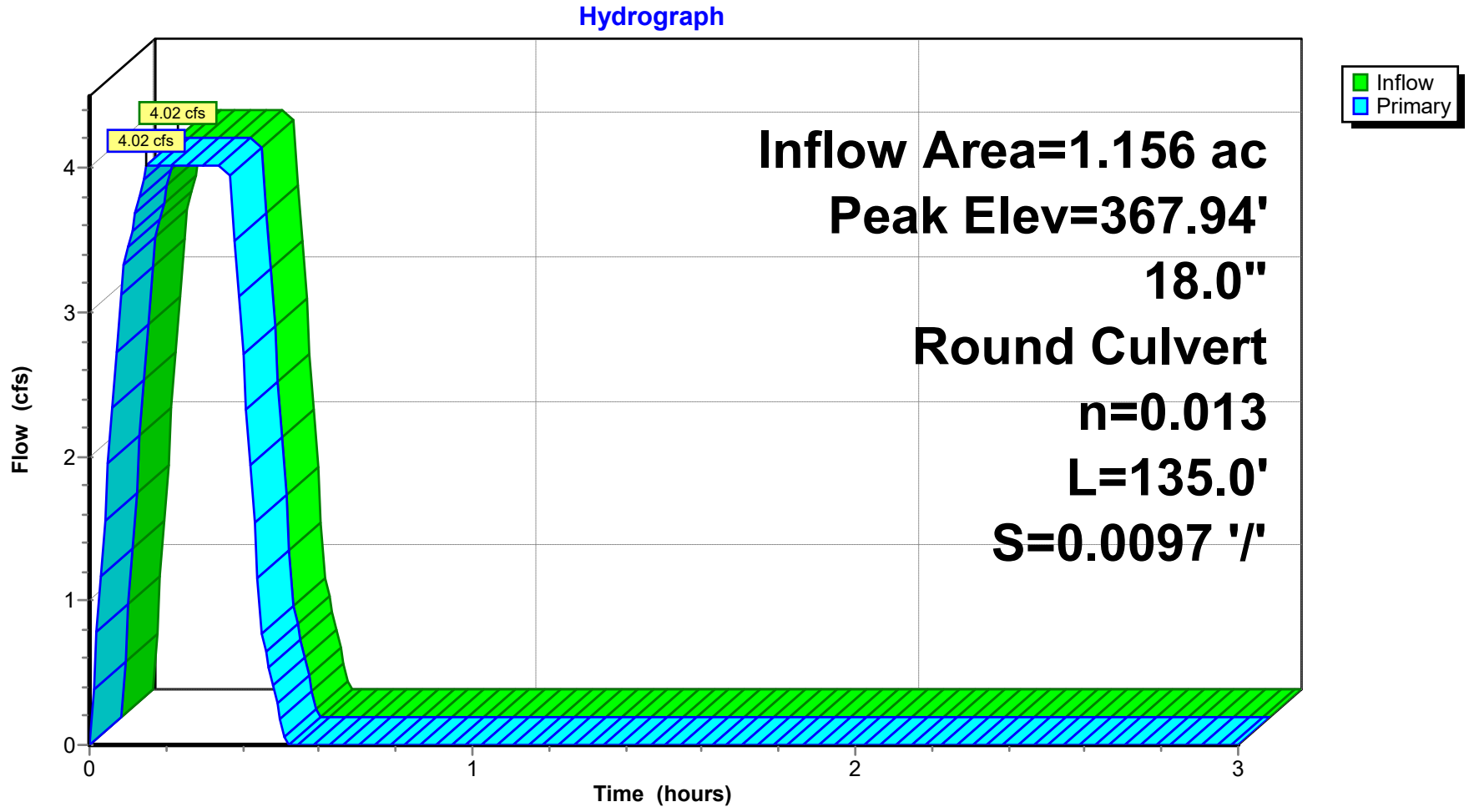
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.94' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.02 cfs @ 0.15 hrs HW=367.94' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 4.02 cfs @ 5.12 fps)

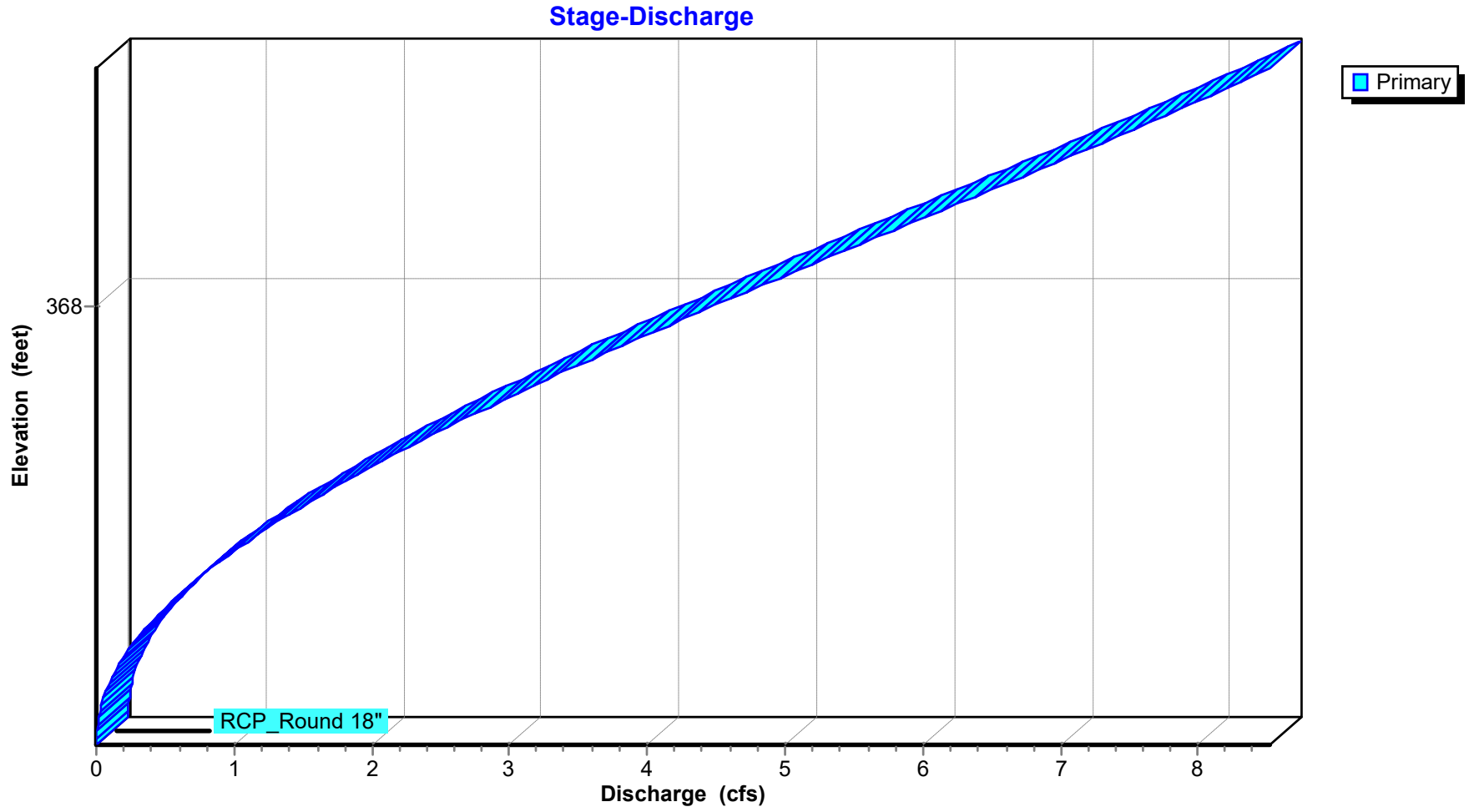
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.27" for 25-yr event
Inflow = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af
Outflow = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min
Primary = 5.00 cfs @ 0.15 hrs, Volume= 0.151 af
Routed to Pond CI-A4 : CURB INLET A4

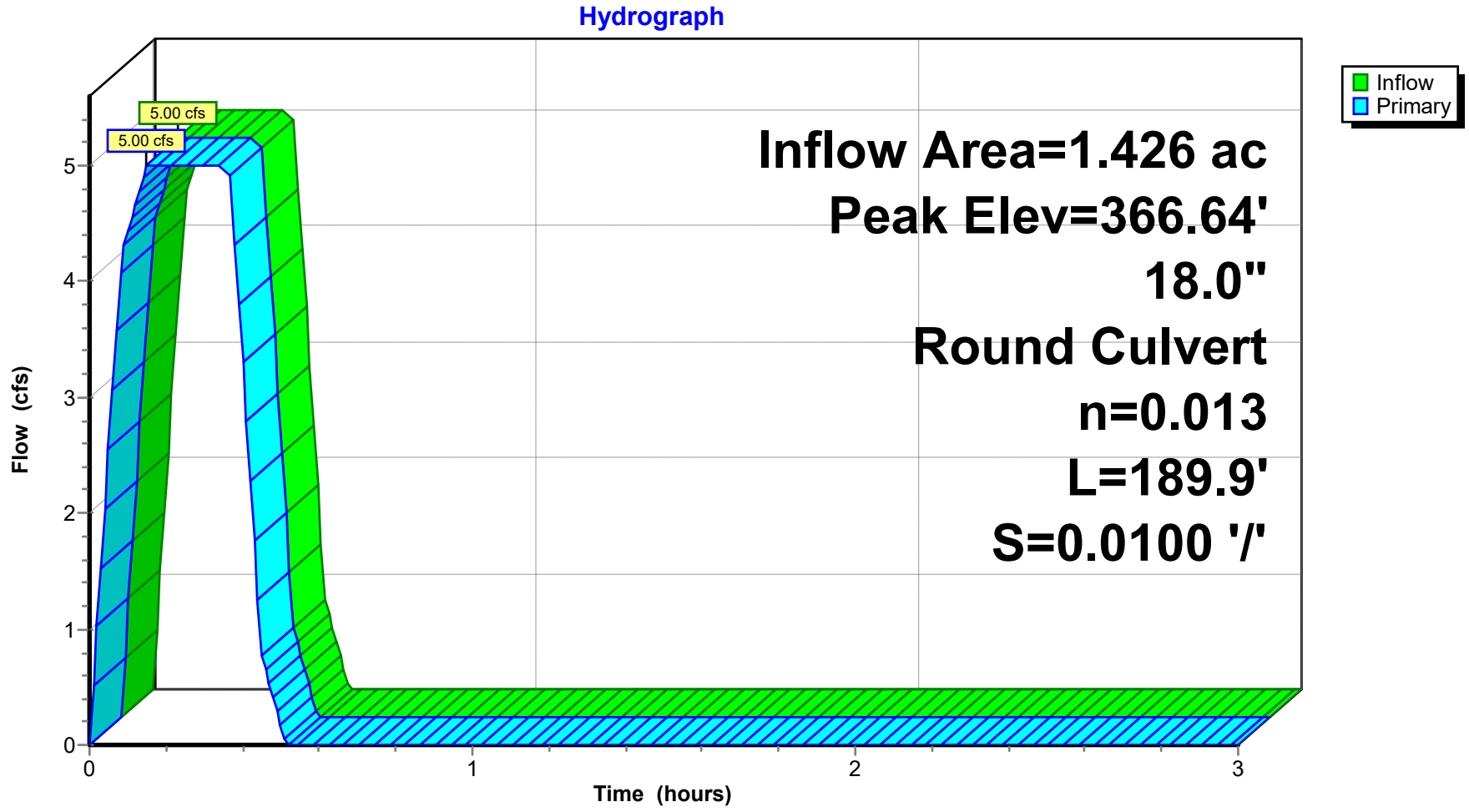
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.64' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.00 cfs @ 0.15 hrs HW=366.64' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 5.00 cfs @ 5.54 fps)

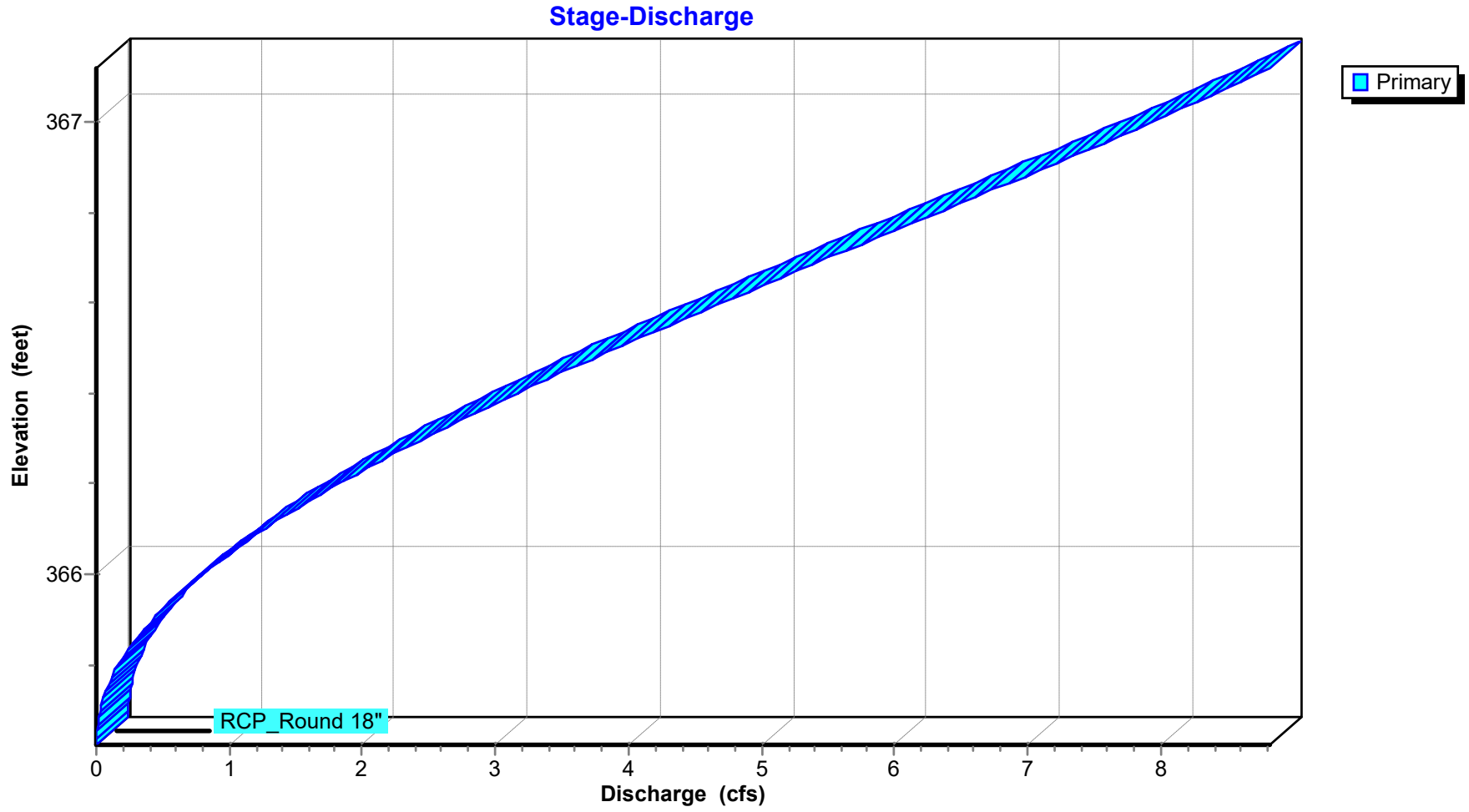
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.25" for 25-yr event
Inflow = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af
Outflow = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af, Atten= 0%, Lag= 0.0 min
Primary = 7.56 cfs @ 0.15 hrs, Volume= 0.229 af
Routed to Pond CI-A5 : CURB INLET A5

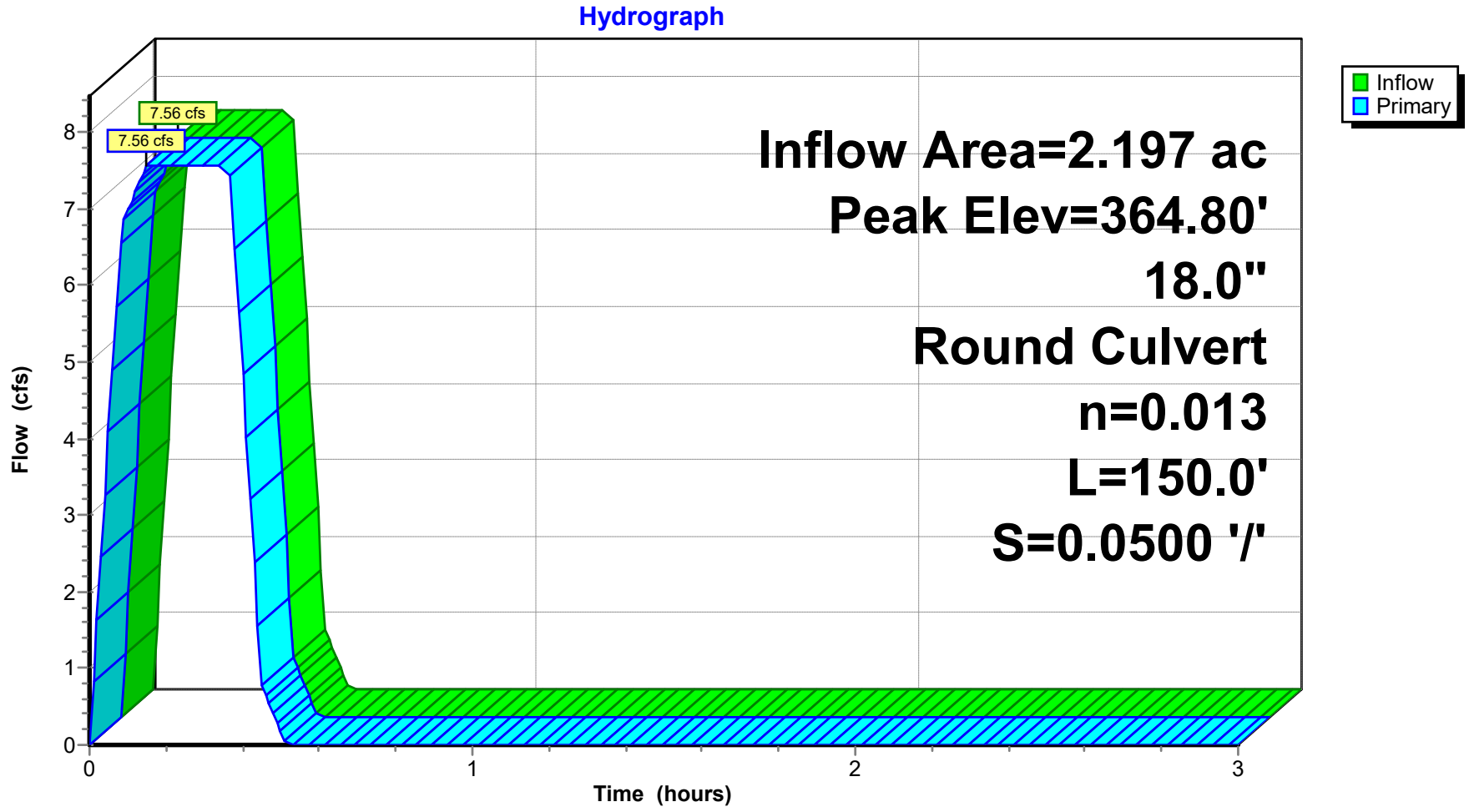
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.80' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=7.56 cfs @ 0.15 hrs HW=364.80' (Free Discharge)
└**1=RCP_Round 18"** (Inlet Controls 7.56 cfs @ 5.05 fps)

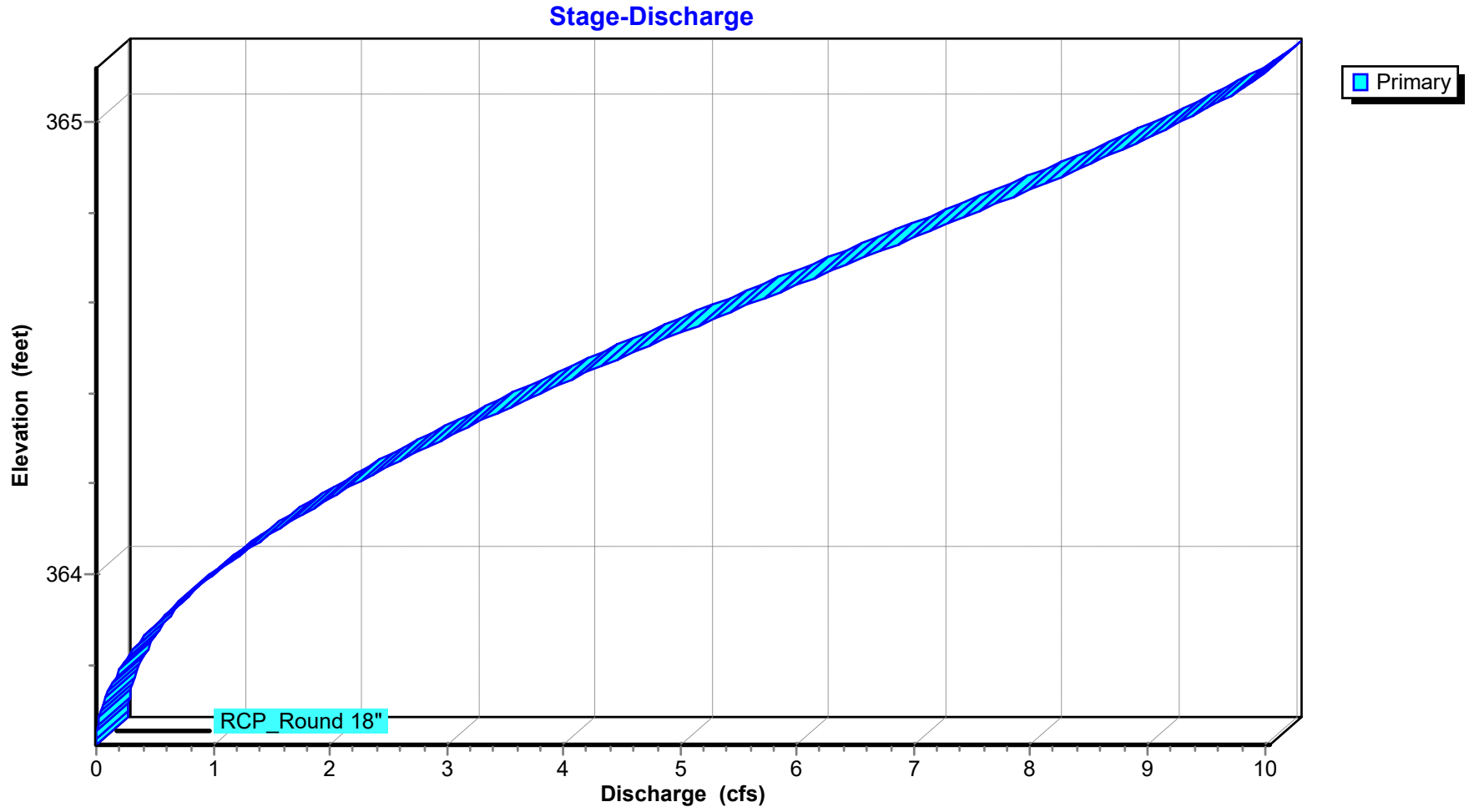
Pond CI-A4: CURB INLET A4

Hydrograph



Pond CI-A4: CURB INLET A4

Stage-Discharge



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.21" for 25-yr event
Inflow = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af
Outflow = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af, Atten= 0%, Lag= 0.0 min
Primary = 8.14 cfs @ 0.15 hrs, Volume= 0.247 af
Routed to Link POST-DEV : Post-Development

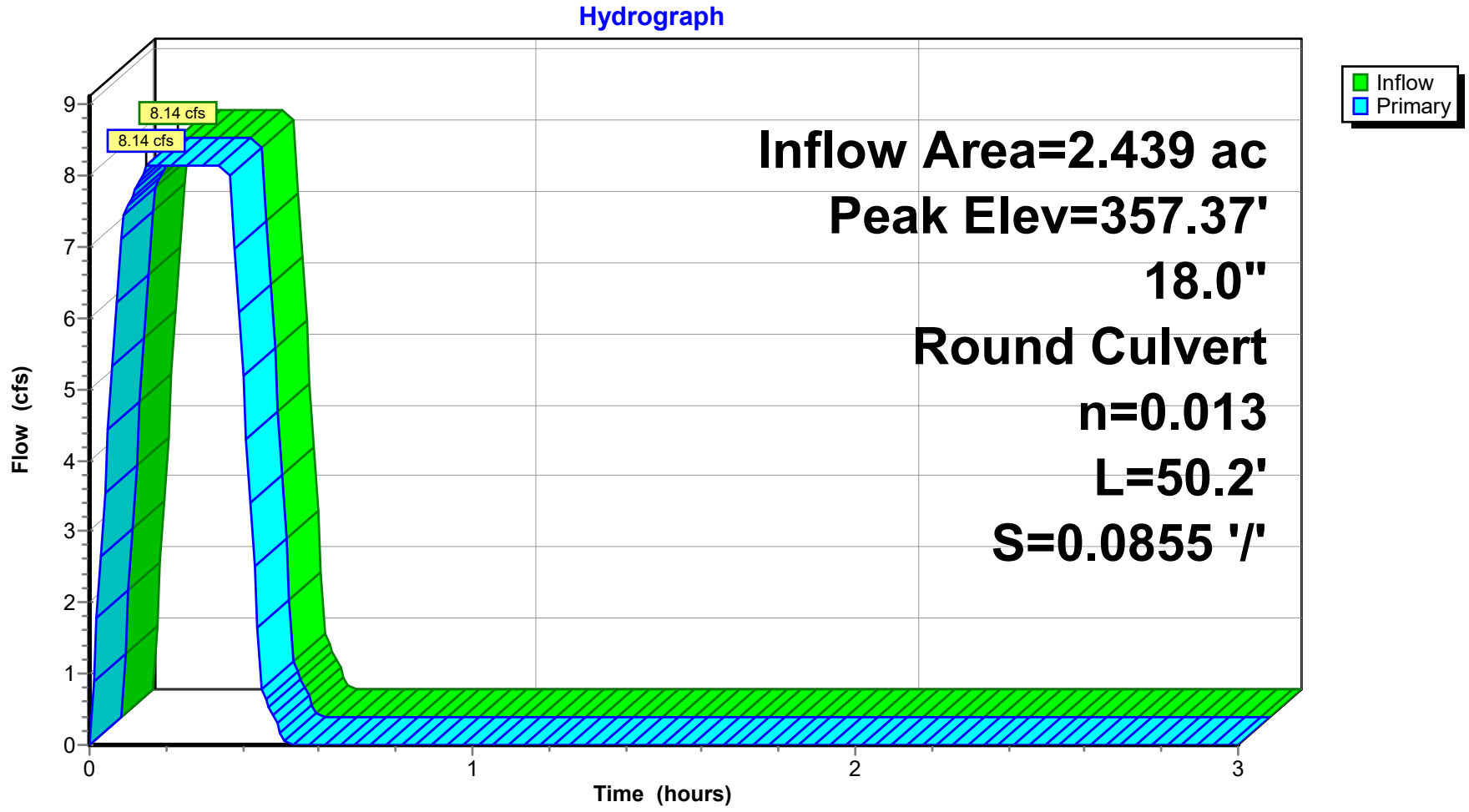
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.37' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=8.14 cfs @ 0.15 hrs HW=357.37' (Free Discharge)
└**1=RCP_Round 18** (Inlet Controls 8.14 cfs @ 5.19 fps)

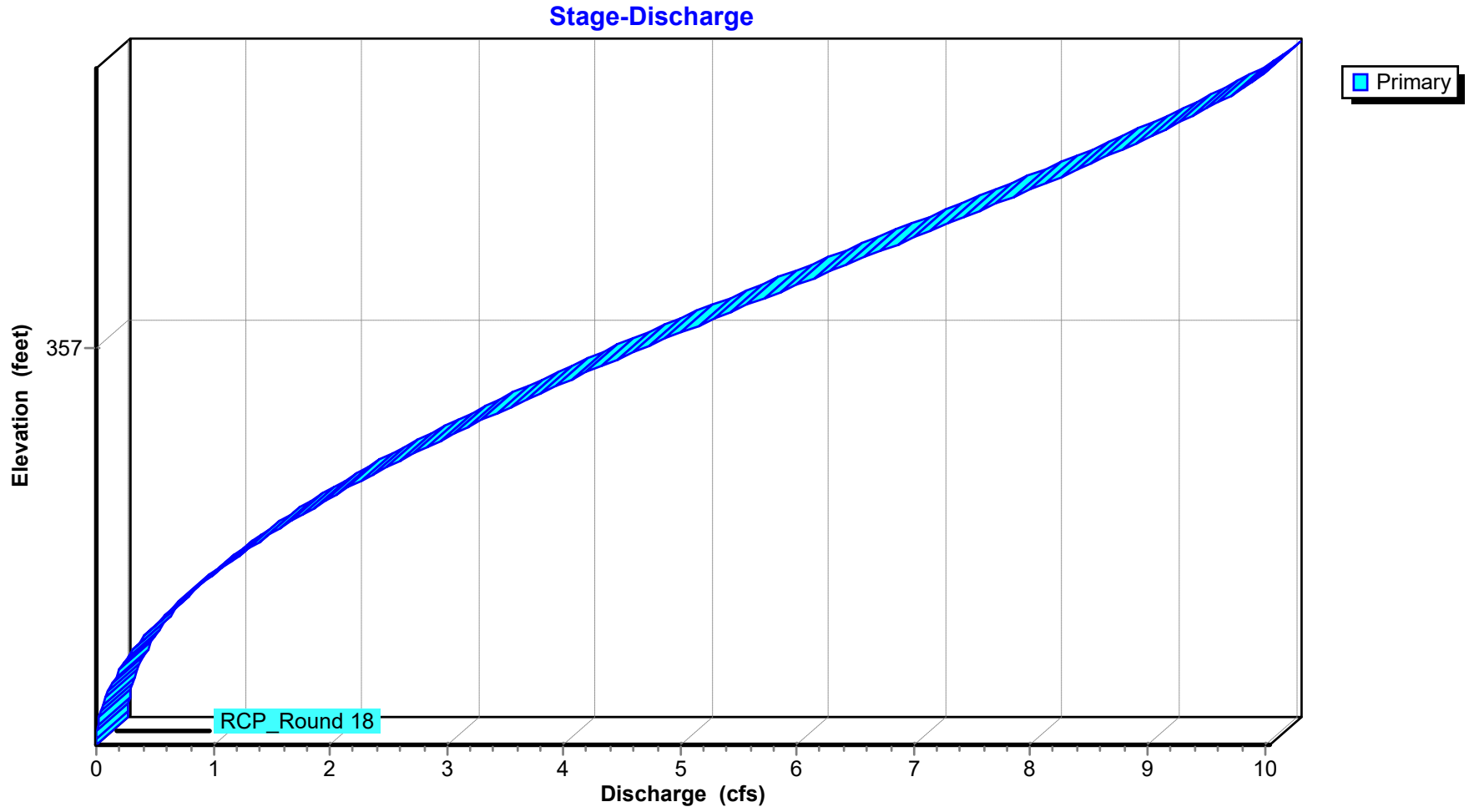
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 1.06" for 25-yr event
Inflow = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af
Outflow = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 0.09 hrs, Volume= 0.019 af
Routed to Pond CI-C2 : CURB INLET C2

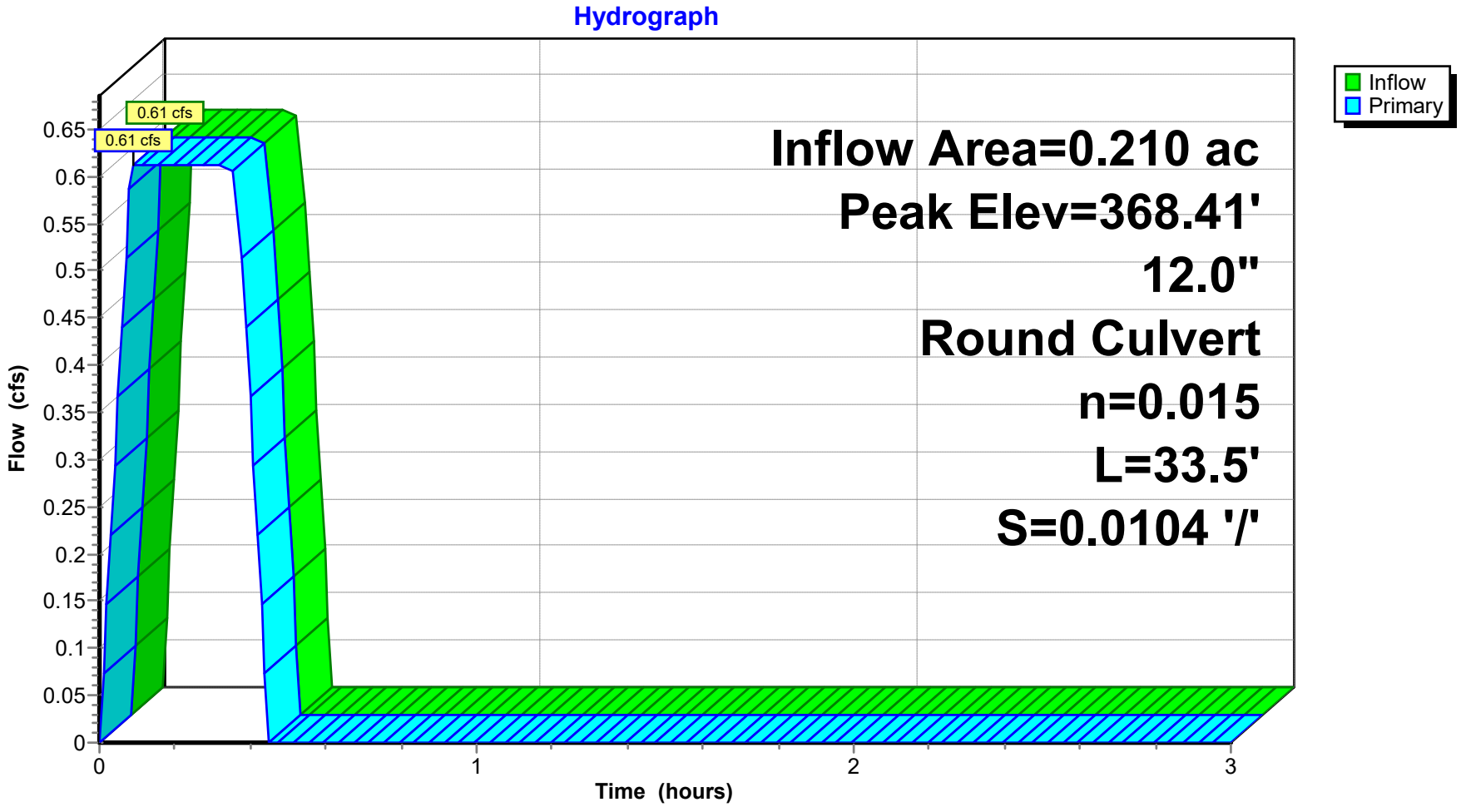
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.41' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.61 cfs @ 0.09 hrs HW=368.41' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.61 cfs @ 2.95 fps)

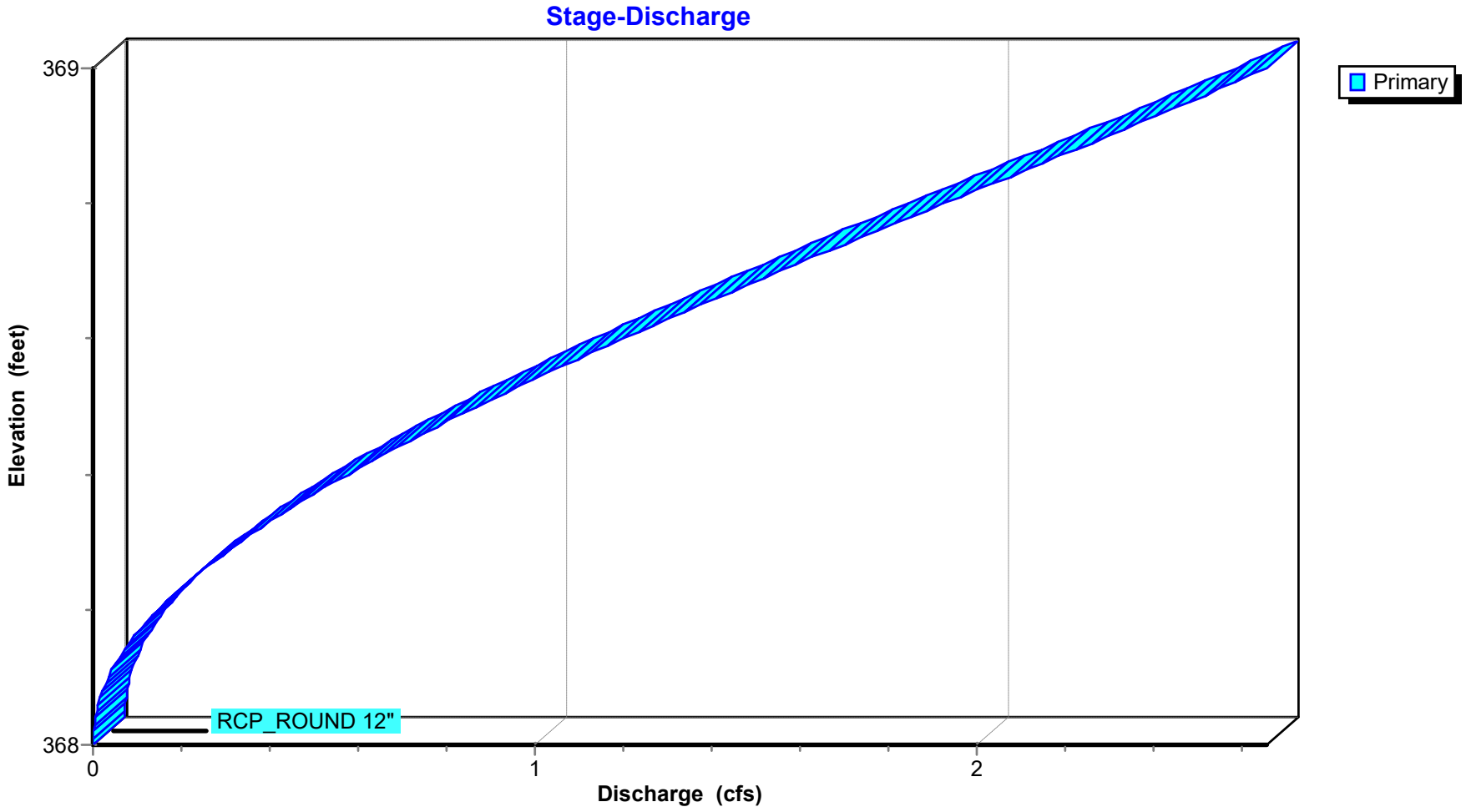
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
368.62	0.000		
368.63	0.000		
368.64	0.000		
368.65	0.000		
368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.05" for 25-yr event
Inflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond JB-C3 : JUNCTION BOX C3

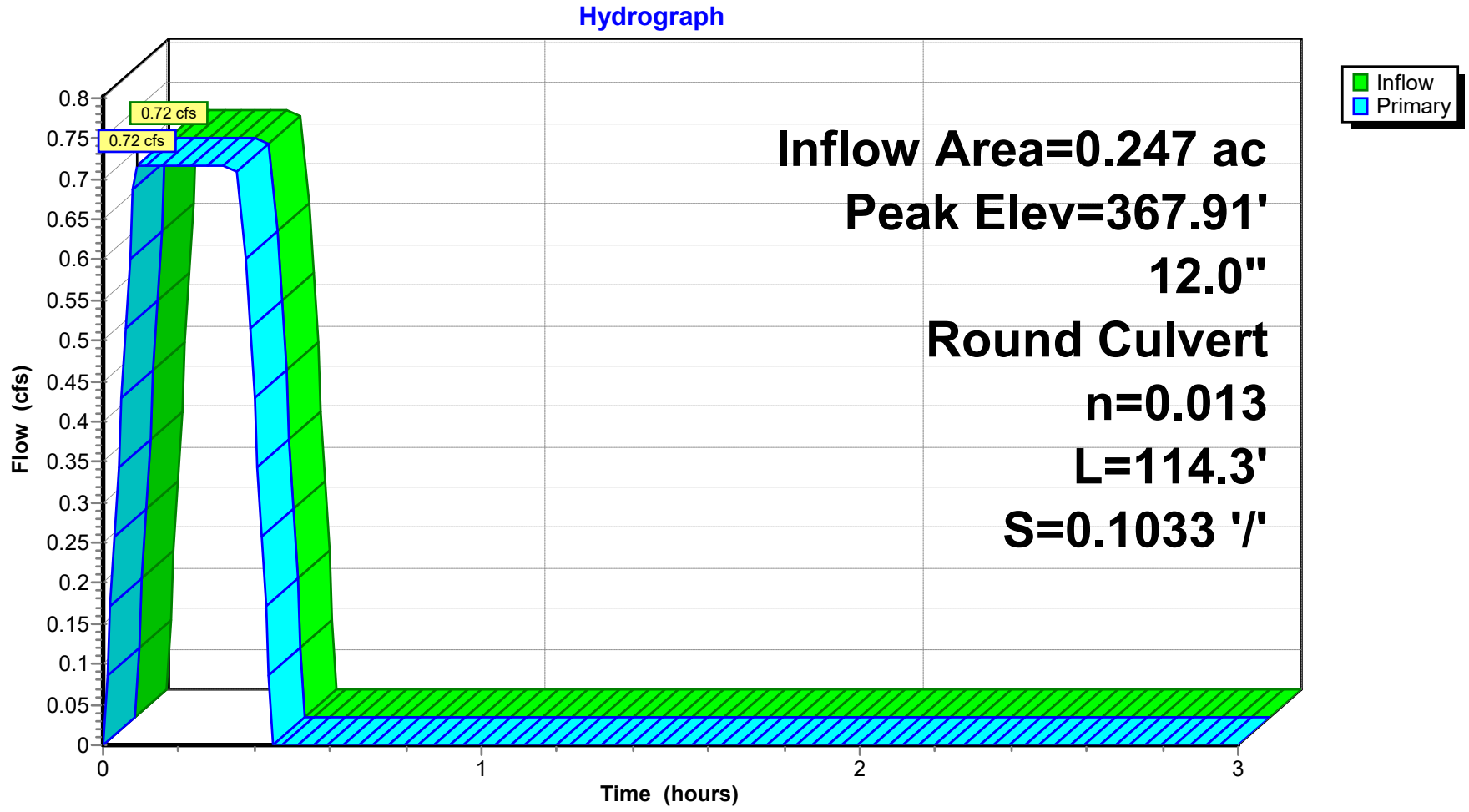
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.91' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 0.09 hrs HW=367.91' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 0.72 cfs @ 2.79 fps)

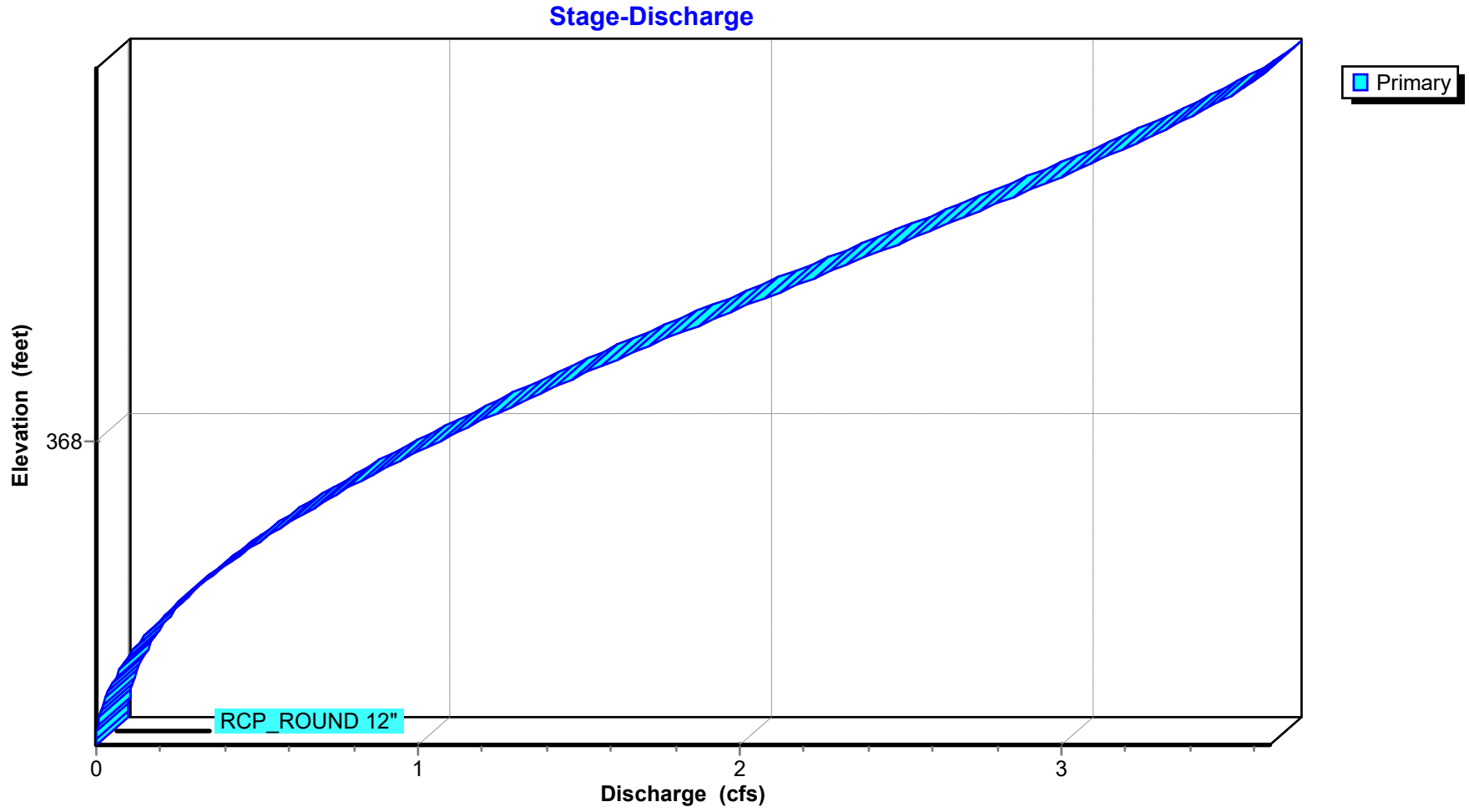
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.55	**0.000**	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000	368.54	0.000
367.63	0.000	368.55	0.000
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		
367.95	0.000		
367.96	0.000		
367.97	0.000		
367.98	0.000		
367.99	0.000		
368.00	0.000		
368.01	0.000		
368.02	0.000		
368.03	0.000		
368.04	0.000		
368.05	0.000		
368.06	0.000		
368.07	0.000		
368.08	0.000		
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 1.06" for 25-yr event
Inflow = 2.81 cfs @ 0.09 hrs, Volume= 0.085 af
Outflow = 2.81 cfs @ 0.10 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.6 min
Primary = 2.81 cfs @ 0.10 hrs, Volume= 0.085 af
Routed to Pond CI-C5 : CURB INLET C5

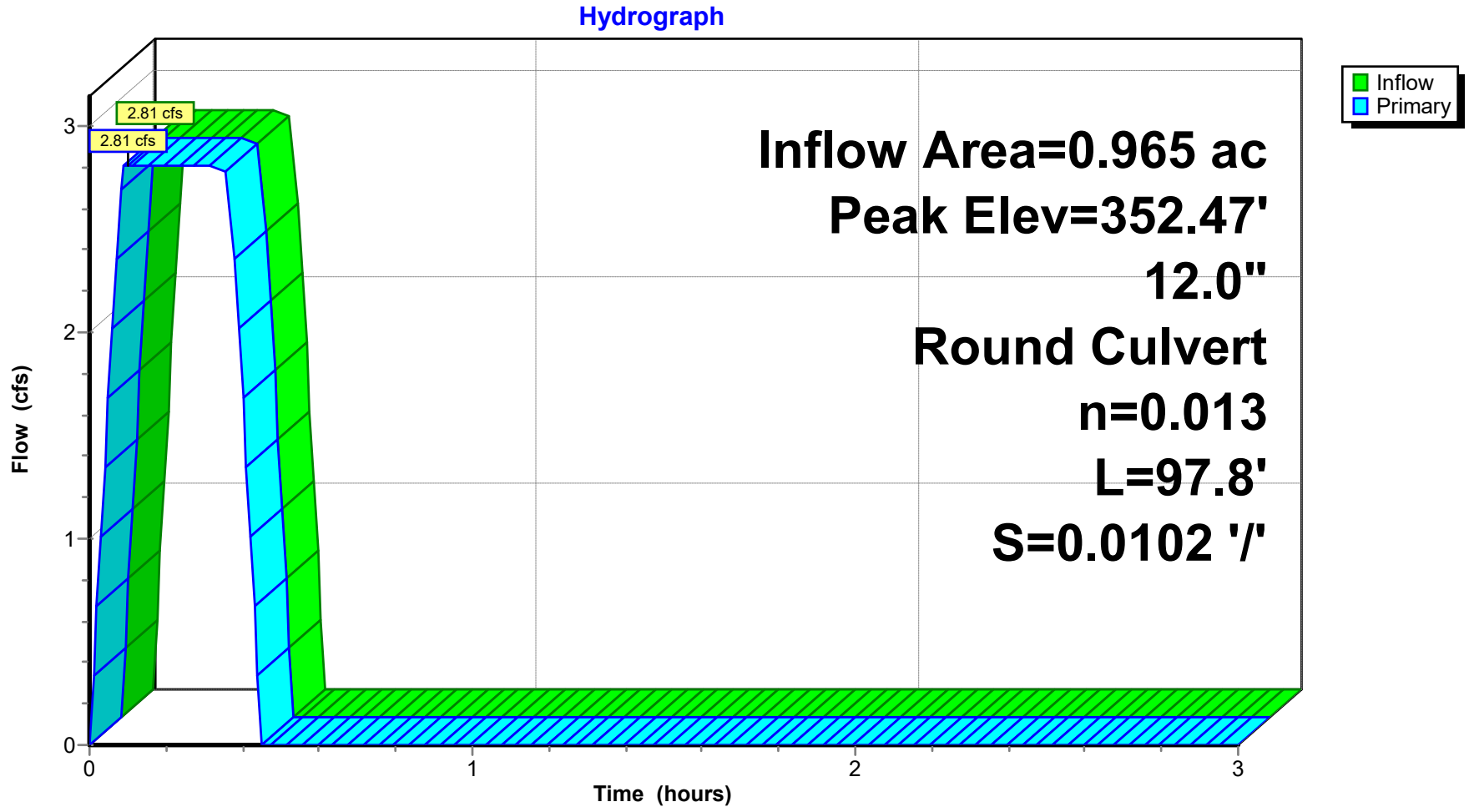
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.47' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.81 cfs @ 0.10 hrs HW=352.47' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 2.81 cfs @ 4.74 fps)

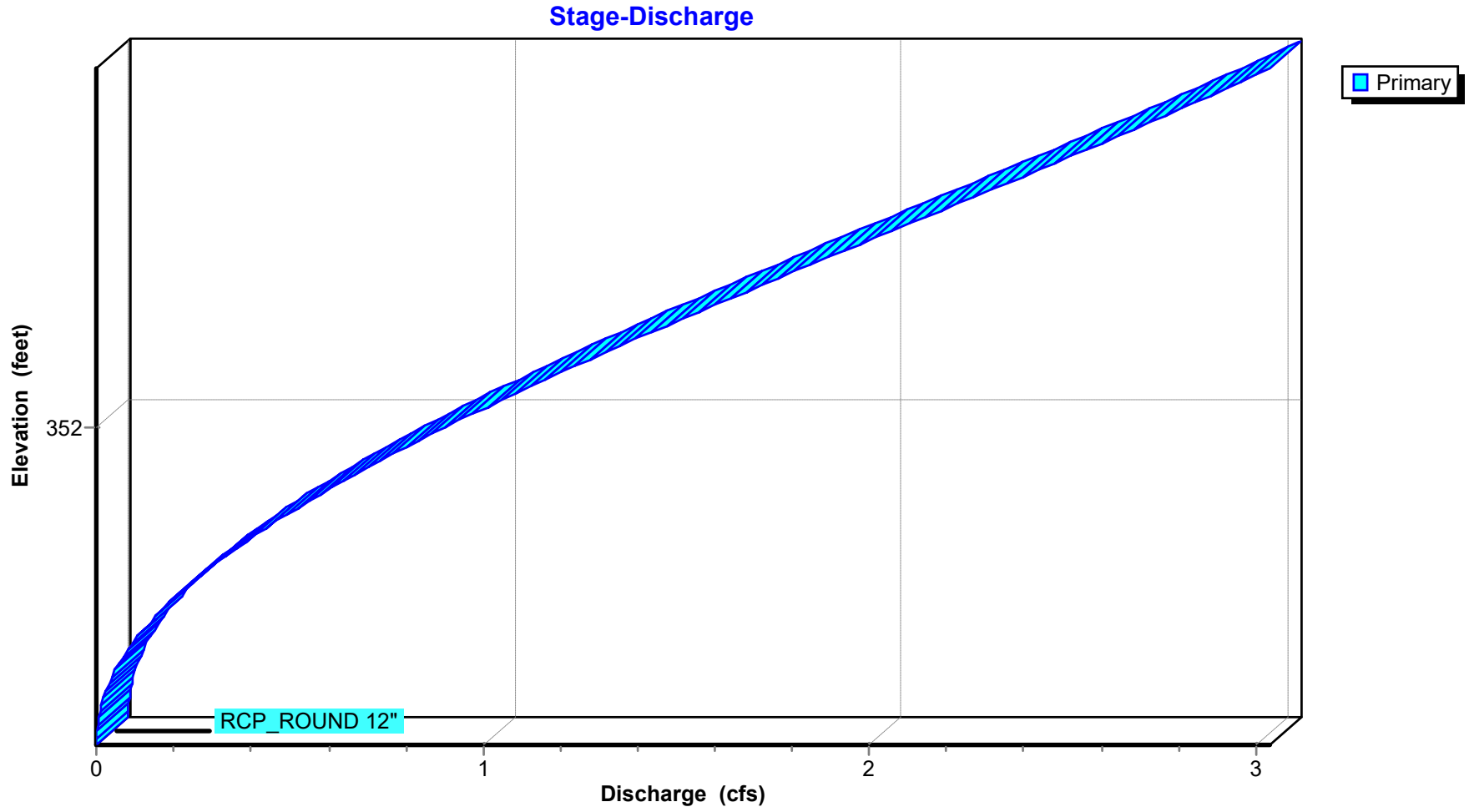
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000		
351.63	0.000		
351.64	0.000		
351.65	0.000		
351.66	0.000		
351.67	0.000		
351.68	0.000		
351.69	0.000		
351.70	0.000		
351.71	0.000		
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 1.03" for 25-yr event
Inflow = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af
Outflow = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 4.05 cfs @ 0.10 hrs, Volume= 0.123 af
Routed to Link POST-DEV : Post-Development

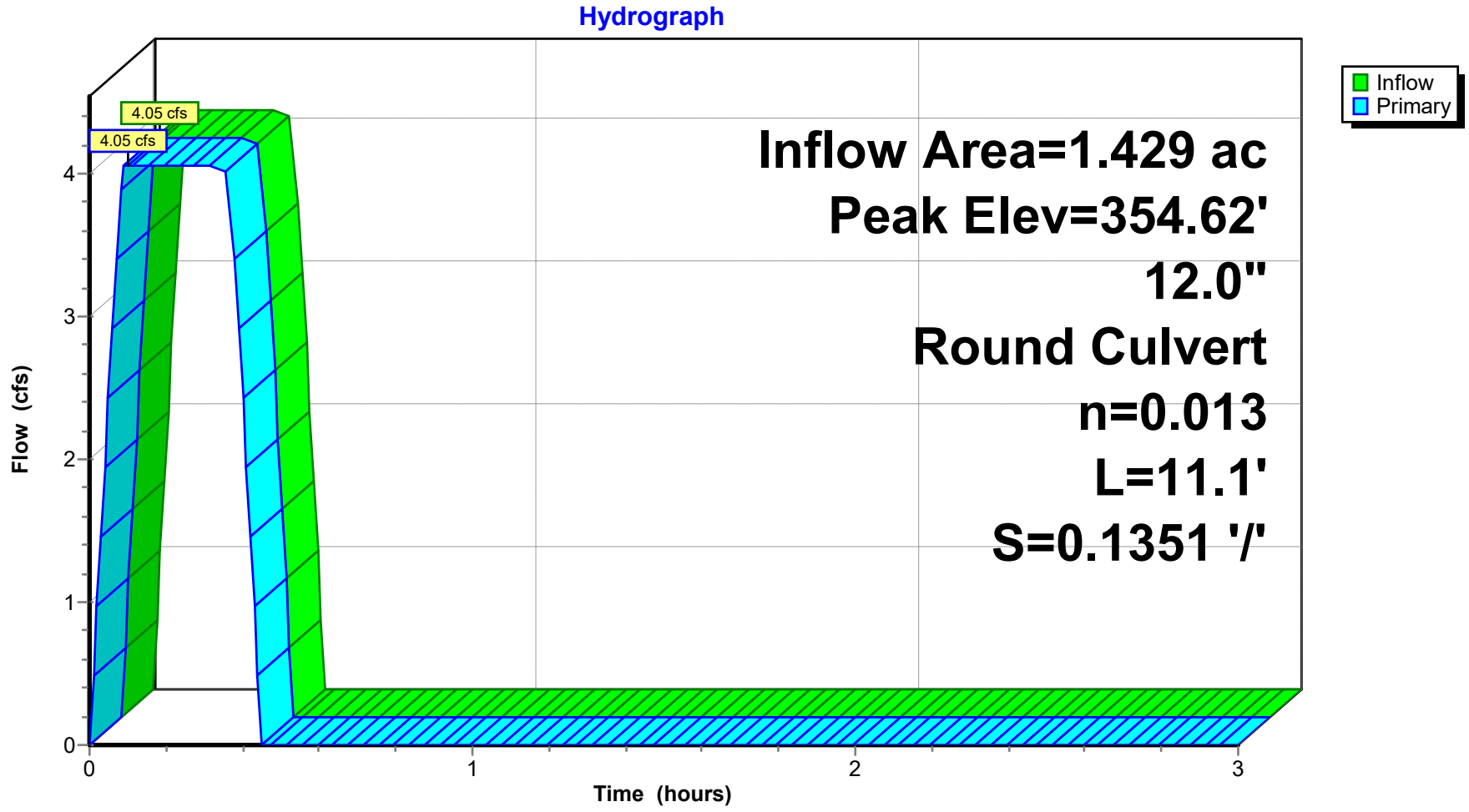
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=4.05 cfs @ 0.10 hrs HW=354.62' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 4.05 cfs @ 5.16 fps)

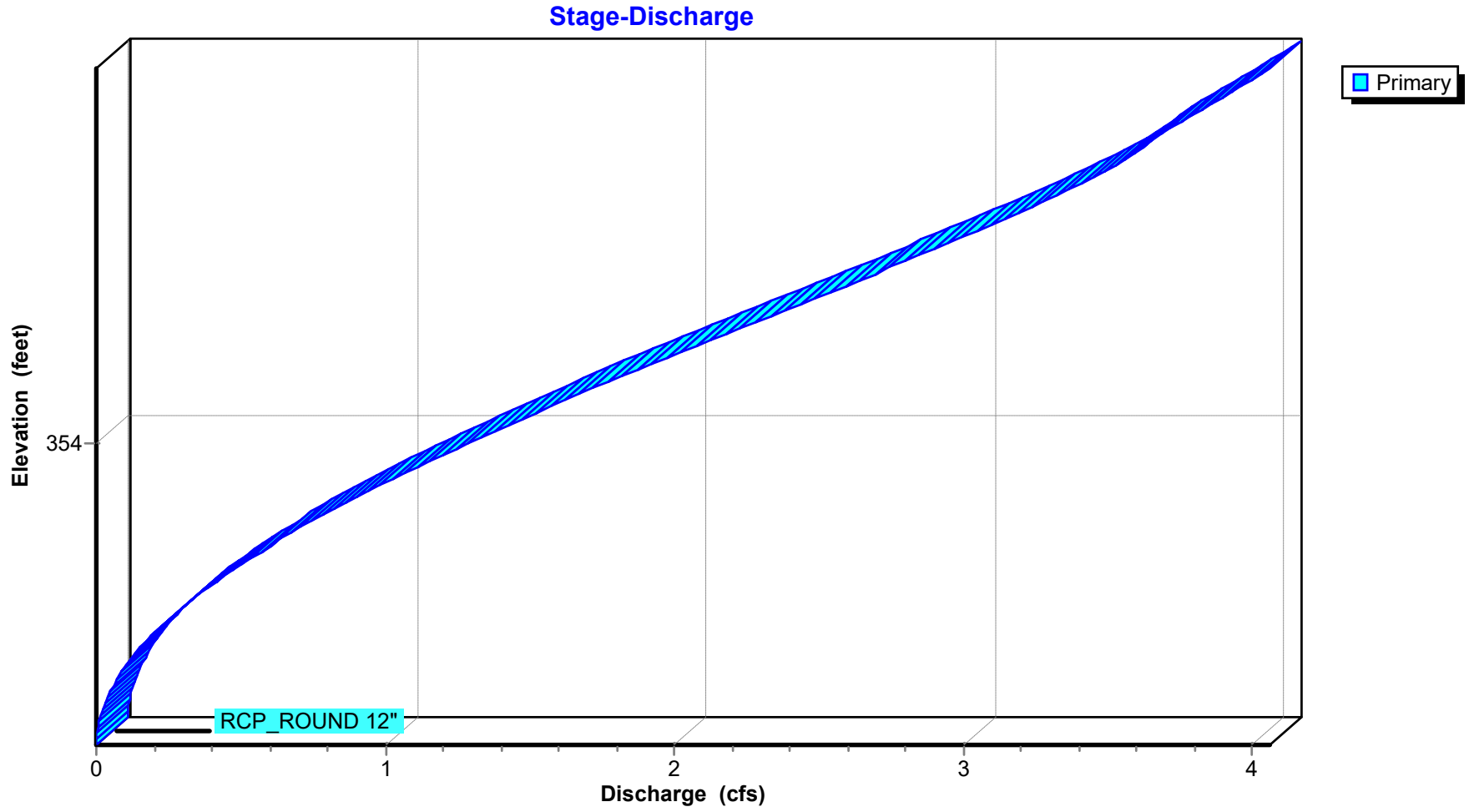
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000	354.51	0.000
353.60	0.000	354.52	0.000
353.61	0.000	354.53	0.000
353.62	0.000	354.54	0.000
353.63	0.000	354.55	0.000
353.64	0.000	354.56	0.000
353.65	0.000	354.57	0.000
353.66	0.000	354.58	0.000
353.67	0.000	354.59	0.000
353.68	0.000	354.60	0.000
353.69	0.000	354.61	0.000
353.70	0.000	354.62	0.000
353.71	0.000		
353.72	0.000		
353.73	0.000		
353.74	0.000		
353.75	0.000		
353.76	0.000		
353.77	0.000		
353.78	0.000		
353.79	0.000		
353.80	0.000		
353.81	0.000		
353.82	0.000		
353.83	0.000		
353.84	0.000		
353.85	0.000		
353.86	0.000		
353.87	0.000		
353.88	0.000		
353.89	0.000		
353.90	0.000		
353.91	0.000		
353.92	0.000		
353.93	0.000		
353.94	0.000		
353.95	0.000		
353.96	0.000		
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 1.02" for 25-yr event
Inflow = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af
Outflow = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 1.76 cfs @ 0.09 hrs, Volume= 0.053 af
Routed to Pond CI-C4 : CURB INLET C4

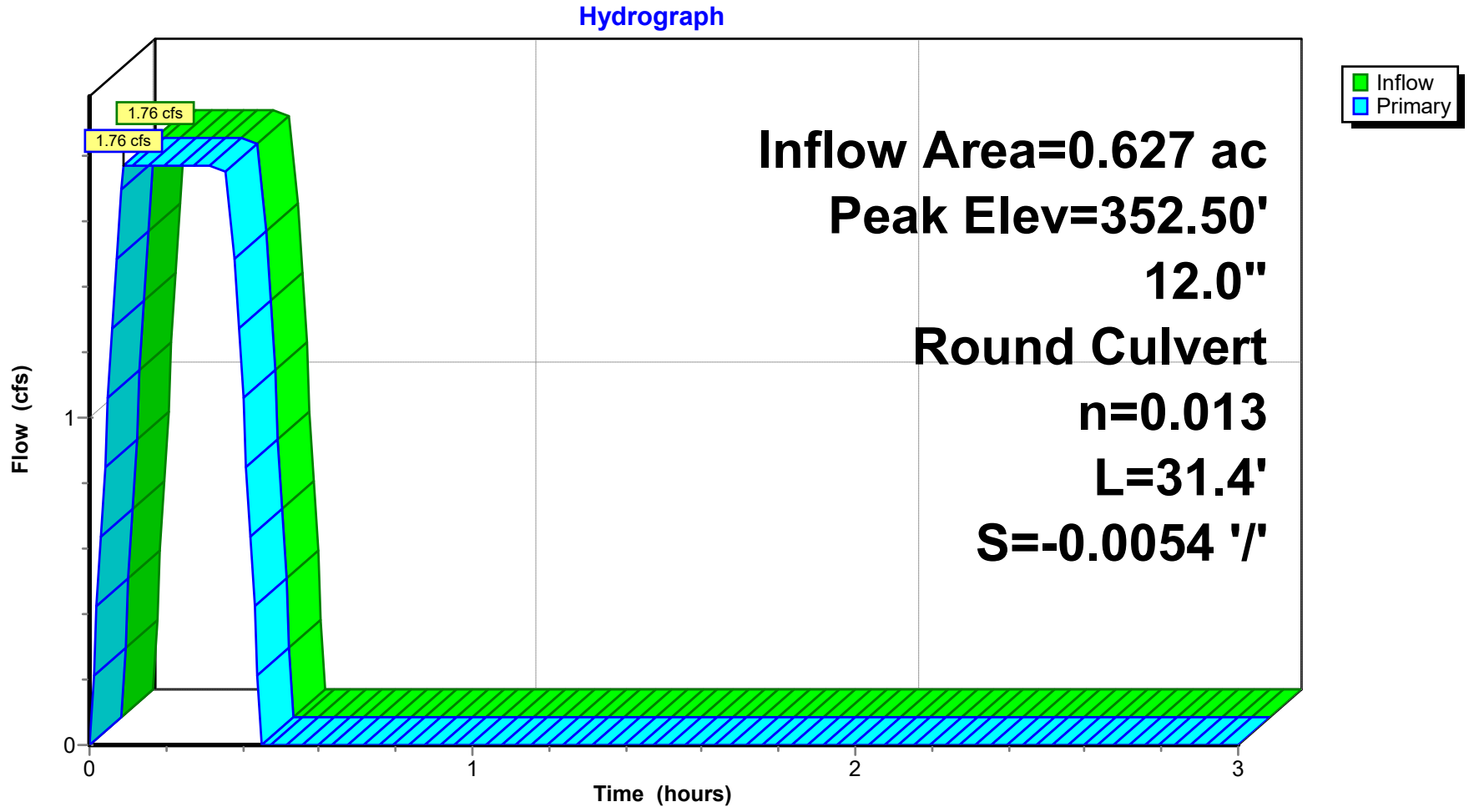
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.50' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=1.76 cfs @ 0.09 hrs HW=352.50' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 1.76 cfs @ 2.89 fps)

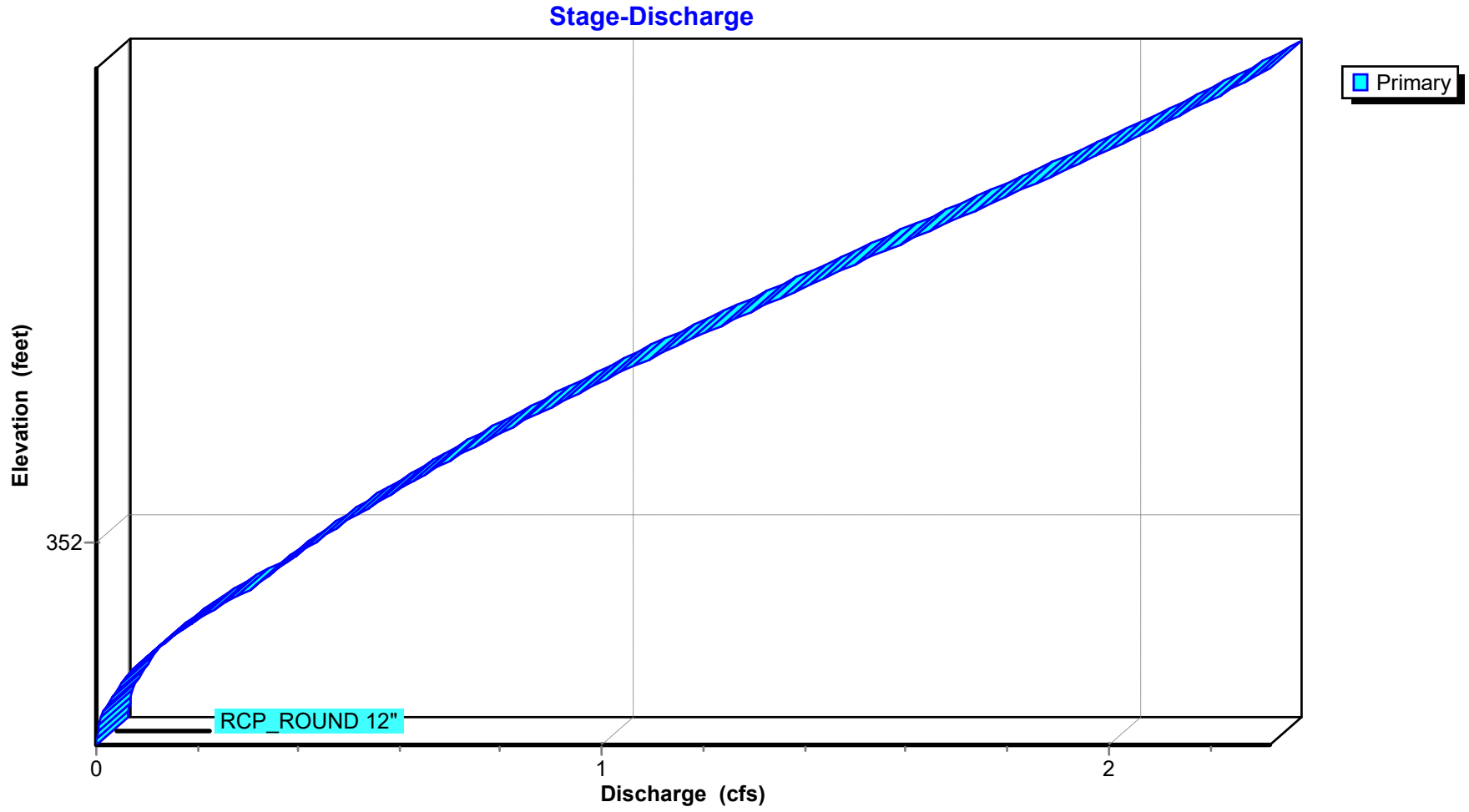
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.05" for 25-yr event
Inflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond CI-C4 : CURB INLET C4

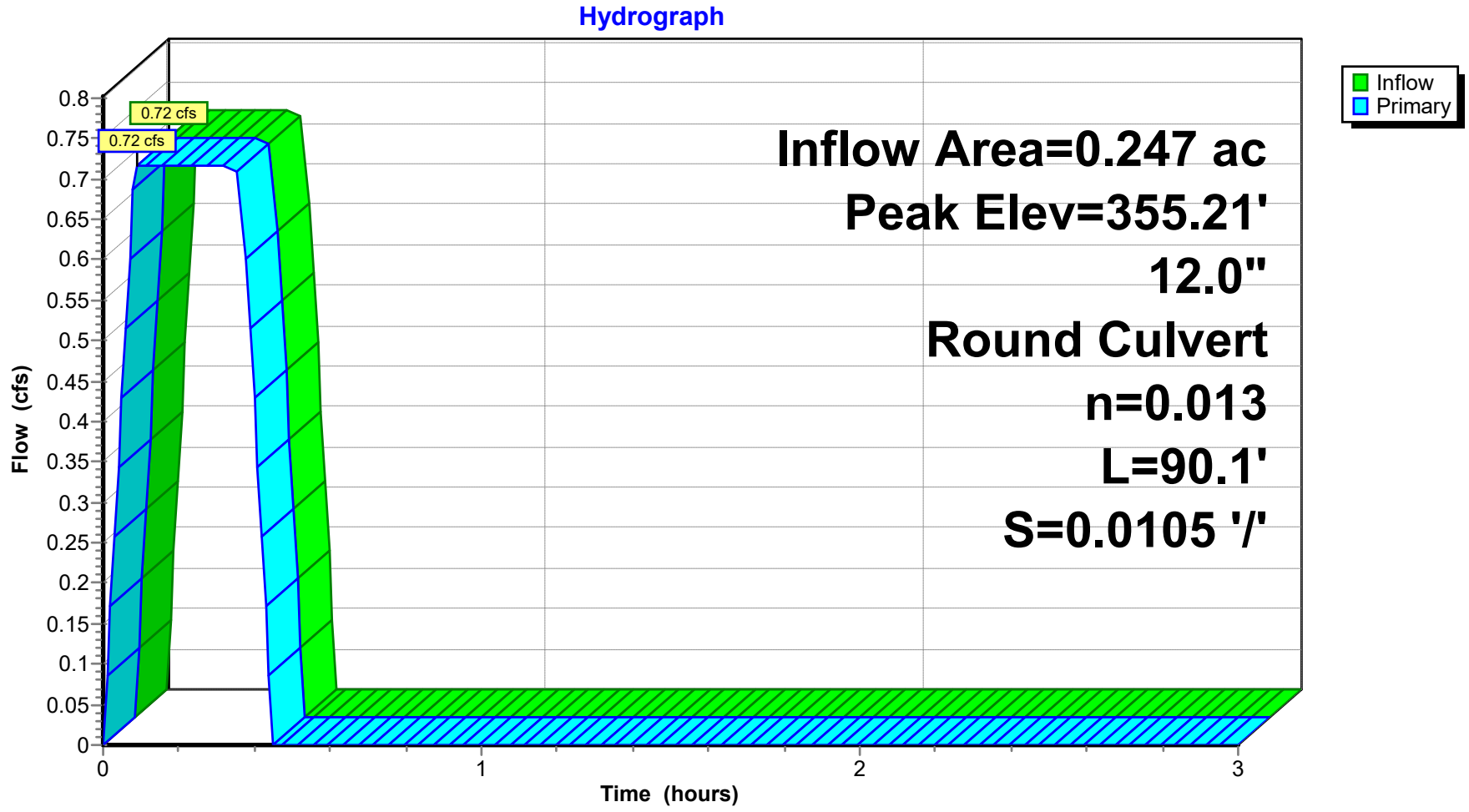
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.21' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 0.09 hrs HW=355.21' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.72 cfs @ 3.47 fps)

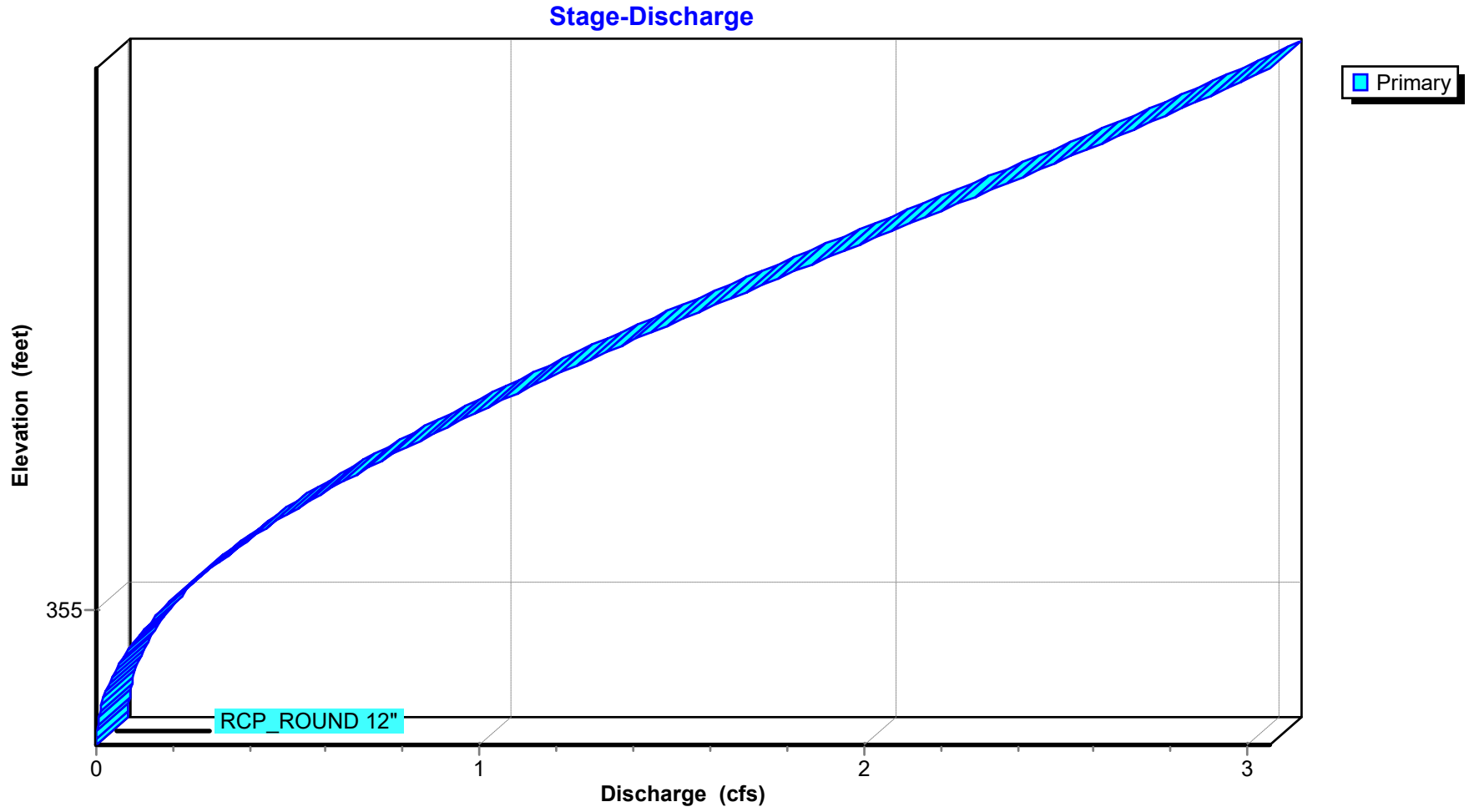
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

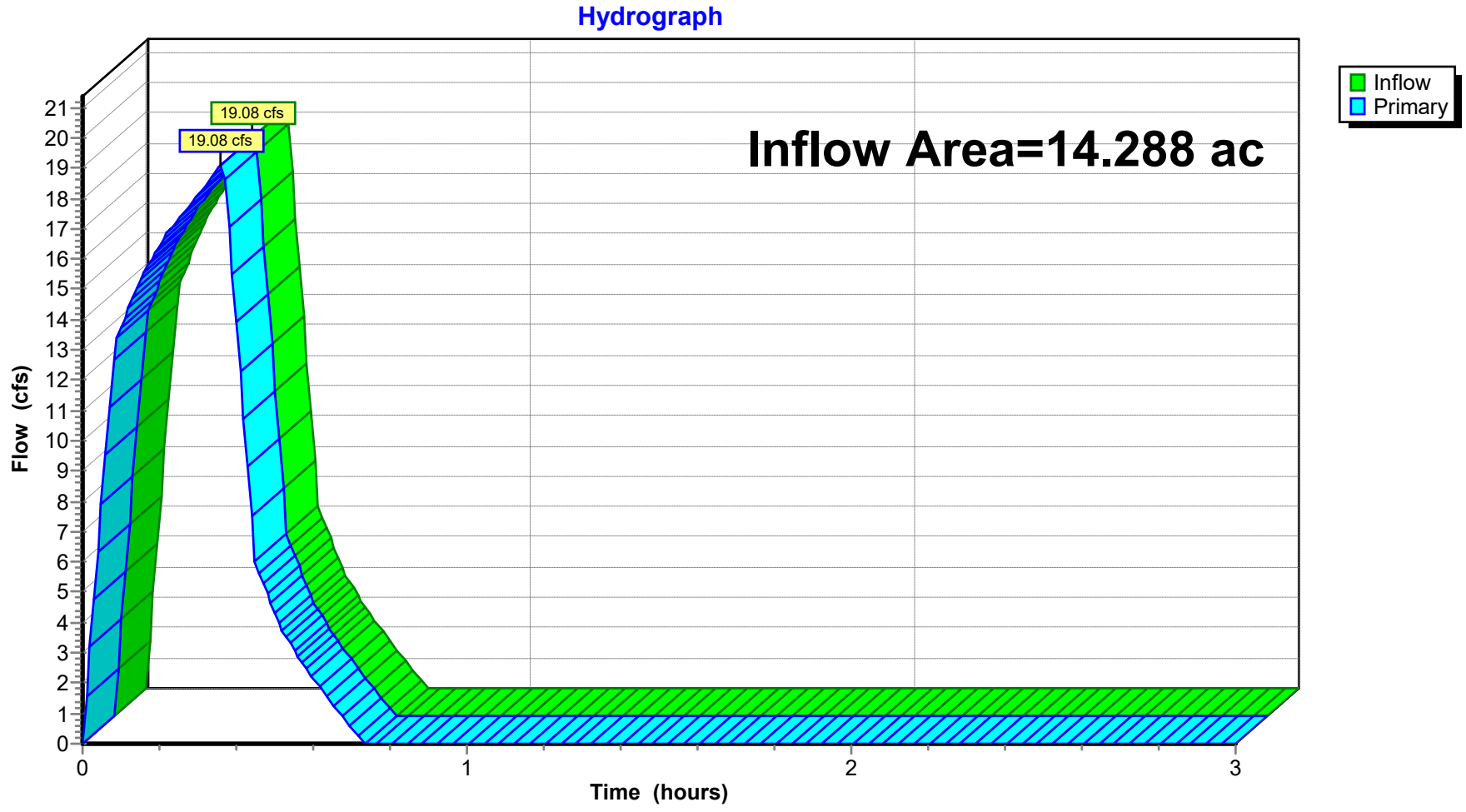
Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.49" for 25-yr event
Inflow = 19.08 cfs @ 0.36 hrs, Volume= 0.581 af
Primary = 19.08 cfs @ 0.36 hrs, Volume= 0.581 af, Atten= 0%, Lag= 0.0 min

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

Link POST-DEV: Post-Development

Hydrograph



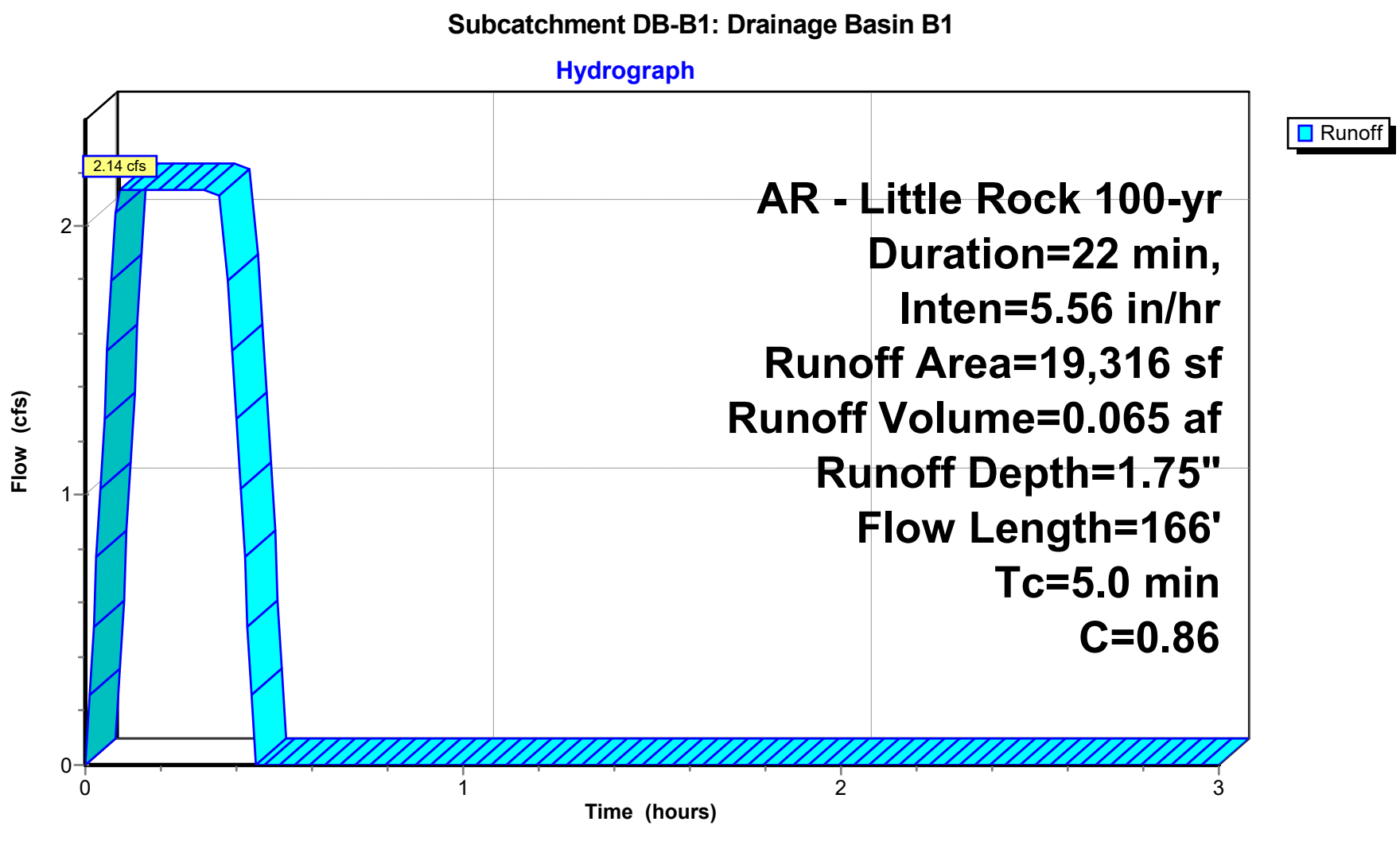
Summary for Subcatchment DB-B1: Drainage Basin B1

Runoff = 2.14 cfs @ 0.09 hrs, Volume= 0.065 af, Depth= 1.75"
Routed to Pond CI-A1 : CURB INLET A1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
1,941	0.30	Sandy Soil 2-7% per manual
17,375	0.92	Paved Areas
19,316	0.86	Weighted Average
19,316		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.5	33	0.0200	0.16		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.6	67	0.0350	1.82		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.5	66	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.4					**Direct Entry, Minimum Adjustment**
5.0	166	Total			



Summary for Subcatchment DB-B10: Drainage Basin B10

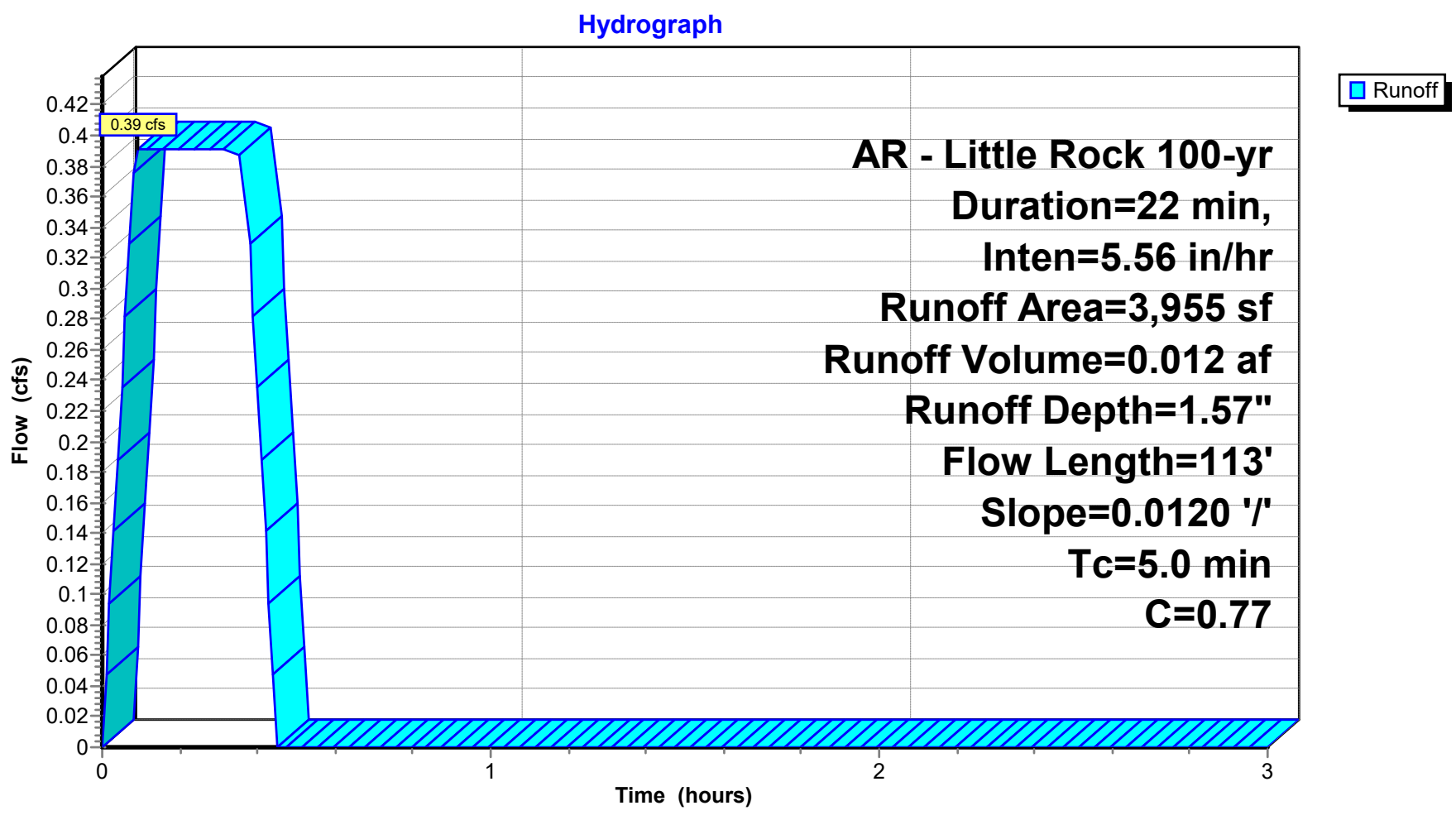
Runoff = 0.39 cfs @ 0.09 hrs, Volume= 0.012 af, Depth= 1.57"
Routed to Pond CI-C4 : CURB INLET C4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
959	0.30	Sandy Soil 2-7% per manual
2,996	0.92	Paved Areas
3,955	0.77	Weighted Average
3,955		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	113	0.0120	1.32		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
3.6					**Direct Entry, Minimum Adjustment**
5.0	113	Total			

Subcatchment DB-B10: Drainage Basin B10



Summary for Subcatchment DB-B11: Drainage Basin B11

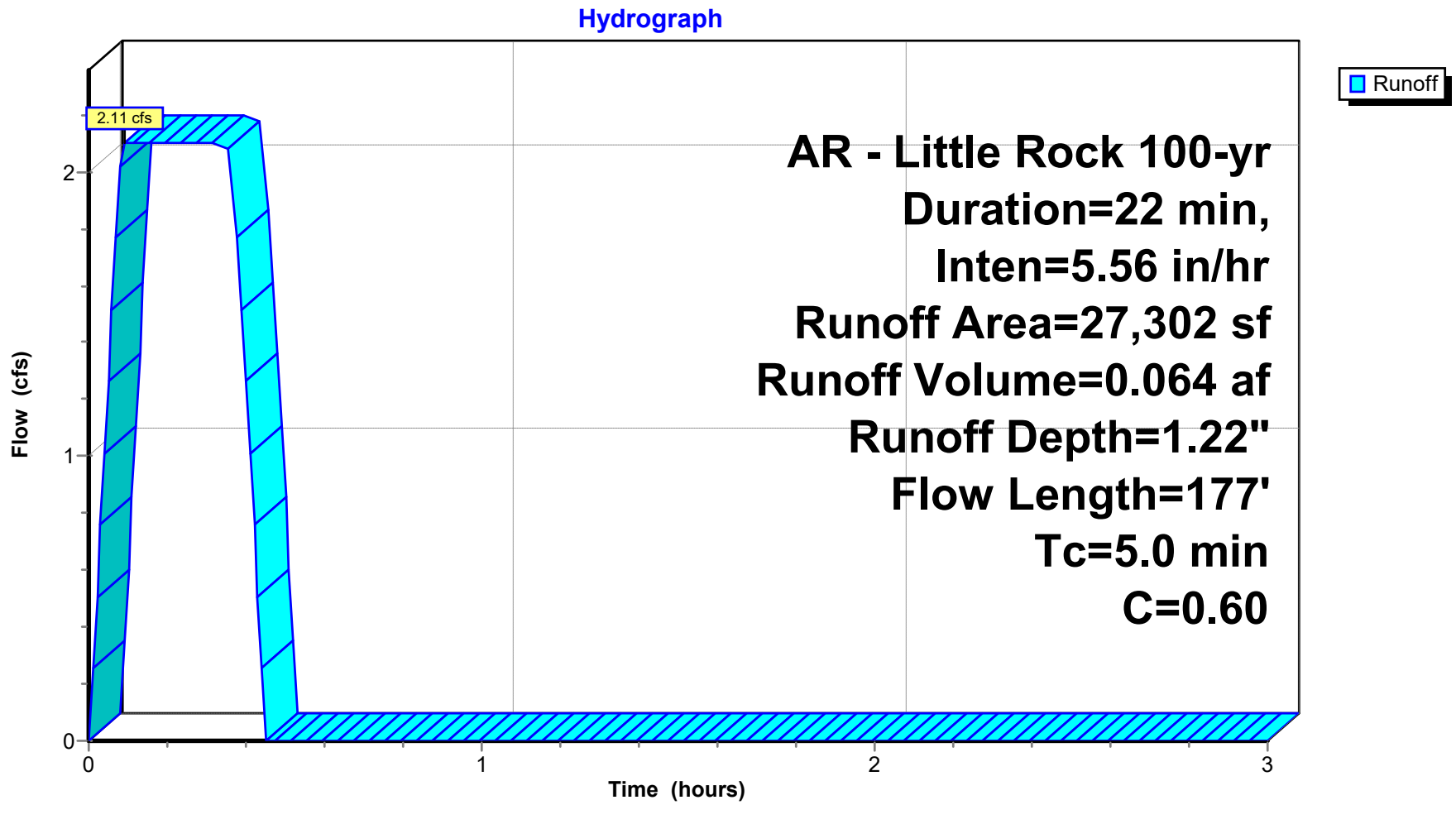
Runoff = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af, Depth= 1.22"
Routed to Pond CI-D1 : CURB INLET D1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
15,547	0.35	Sandy Soil 2-7% per manual
11,755	0.92	Paved Areas
27,302	0.60	Weighted Average
27,302		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	65	0.3300	4.44		**Sheet Flow, Roof**
					Smooth surfaces n= 0.011 P2= 4.20"
0.2	69	0.1750	6.27		**Shallow Concentrated Flow, Greenspace**
					Grassed Waterway Kv= 15.0 fps
0.2	43	0.0500	4.54		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
4.4					**Direct Entry, Minimum Adjustment**
5.0	177	Total			

Subcatchment DB-B11: Drainage Basin B11



Summary for Subcatchment DB-B12: Drainage Basin B12

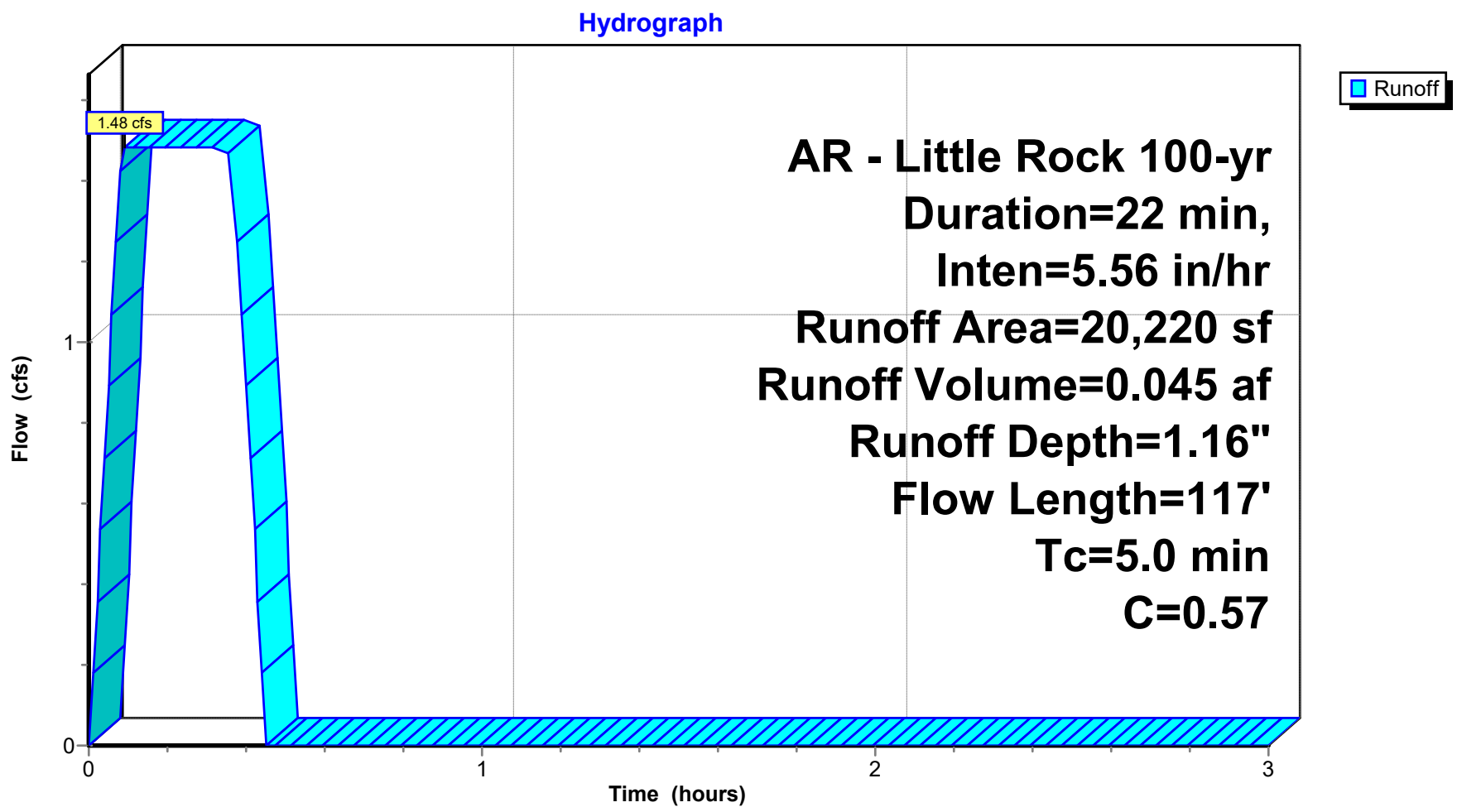
Runoff = 1.48 cfs @ 0.09 hrs, Volume= 0.045 af, Depth= 1.16"
Routed to Pond CI-C5 : CURB INLET C5

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,502	0.30	Sandy Soil 2-7% per manual
8,718	0.92	Paved Areas
20,220	0.57	Weighted Average
20,220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.0	26	0.0500	0.21		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.5	38	0.2360	0.43		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.1	28	0.2390	0.41		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.4	25	0.0180	1.15		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
5.0	117	Total			

Subcatchment DB-B12: Drainage Basin B12



Summary for Subcatchment DB-B13: DRAINAGE BASIN B13

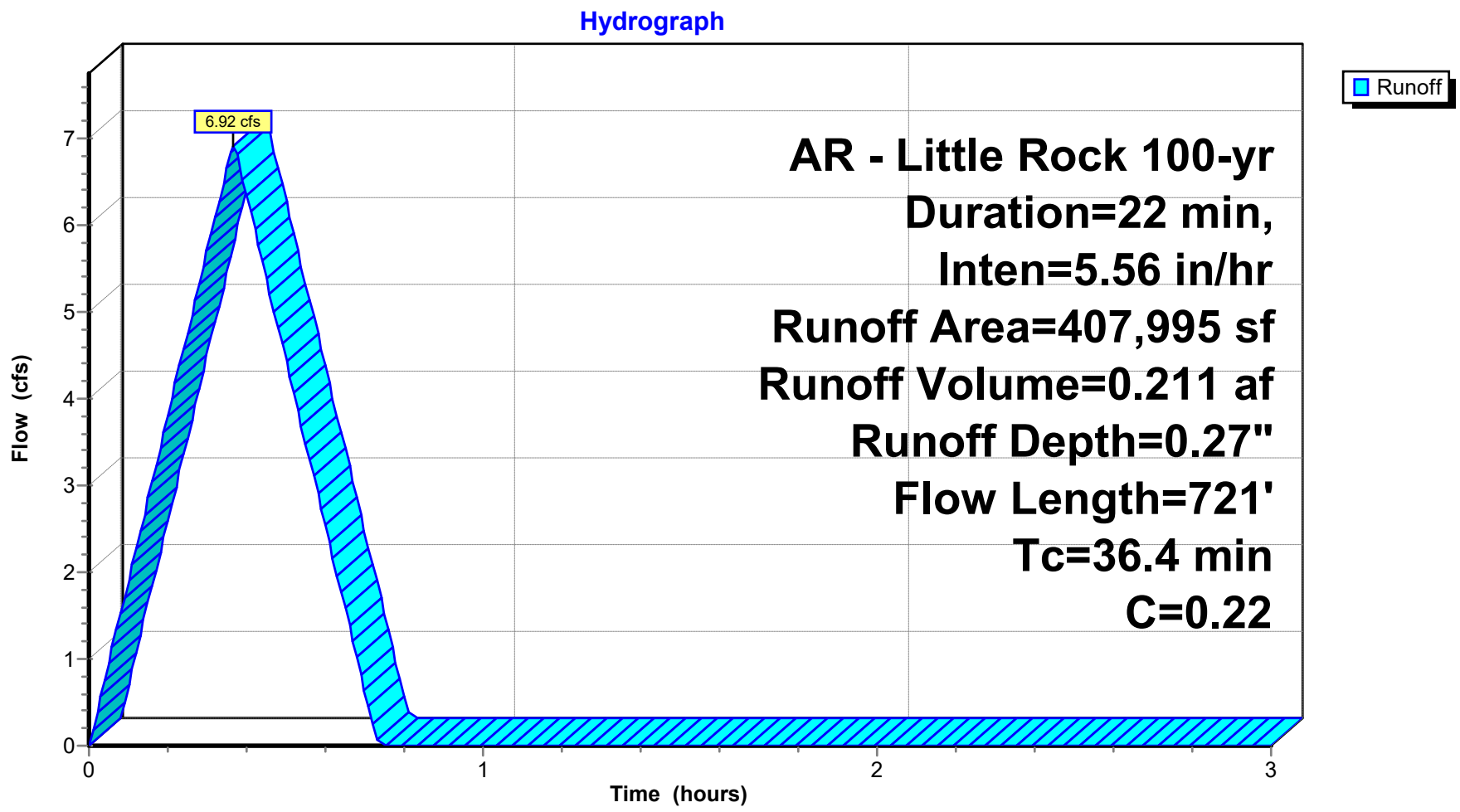
Runoff = 6.92 cfs @ 0.37 hrs, Volume= 0.211 af, Depth= 0.27"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
407,995	0.22	Sandy Soil 2-7% Per Manual
407,995		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	67	0.6600	0.73		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.2	46	0.5900	0.65		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
3.2	147	0.5100	0.77		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.8	63	0.3800	0.58		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
8.5	70	0.0100	0.14		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
4.8	163	0.2200	0.56		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.4	65	0.2000	0.45		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.3	48	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
6.7	52	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
36.4	721	Total			

Subcatchment DB-B13: DRAINAGE BASIN B13



Summary for Subcatchment DB-B14: DRAINAGE BASIN B14

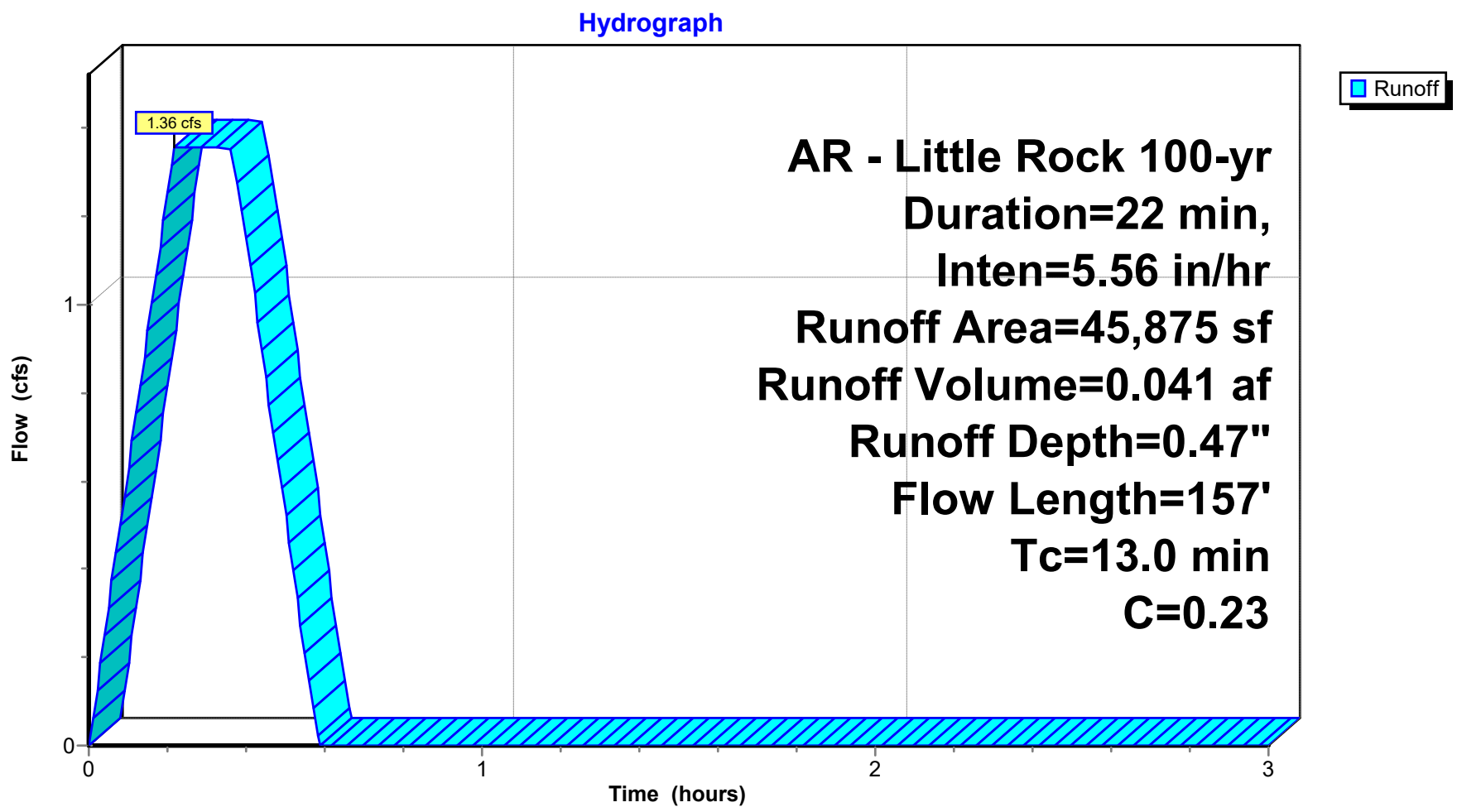
Runoff = 1.36 cfs @ 0.22 hrs, Volume= 0.041 af, Depth= 0.47"
Routed to Link POST-DEV : Post-Development

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
45,016	0.22	Sandy Soil 2-7% Per Manual
859	0.92	Paved Areas
45,875	0.23	Weighted Average
45,875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.5	15	0.0100	0.10		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
5.2	78	0.0420	0.25		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.8	38	0.0480	0.23		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
2.5	26	0.0280	0.17		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
13.0	157	Total			

Subcatchment DB-B14: DRAINAGE BASIN B14



Summary for Subcatchment DB-B2: Drainage Basin B2

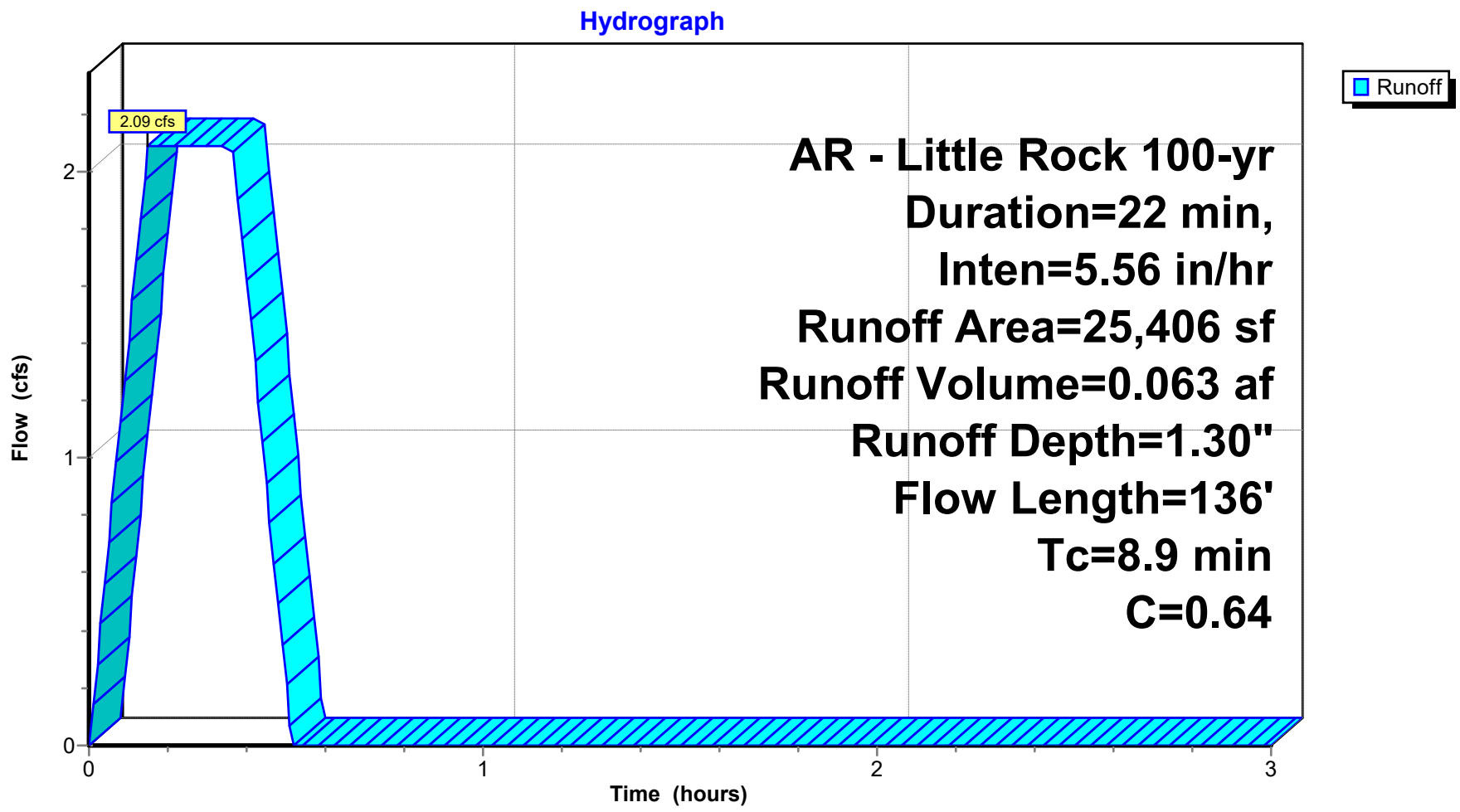
Runoff = 2.09 cfs @ 0.15 hrs, Volume= 0.063 af, Depth= 1.30"
Routed to Pond CI-A2 : CURB INLET A2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,388	0.30	Sandy Soil 2-7% per manual
14,018	0.92	Paved Areas
25,406	0.64	Weighted Average
25,406		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	57	0.0100	0.13		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.8	19	0.2480	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	14	0.0150	0.95		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	34	0.0600	1.97		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0350	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.2					**Direct Entry, Minimum Adjustment**
8.9	136	Total			

Subcatchment DB-B2: Drainage Basin B2



Summary for Subcatchment DB-B3: Drainage Basin B3

Runoff = 1.17 cfs @ 0.09 hrs, Volume= 0.035 af, Depth= 1.57"
Routed to Pond CI-A3 : CURB INLET A3

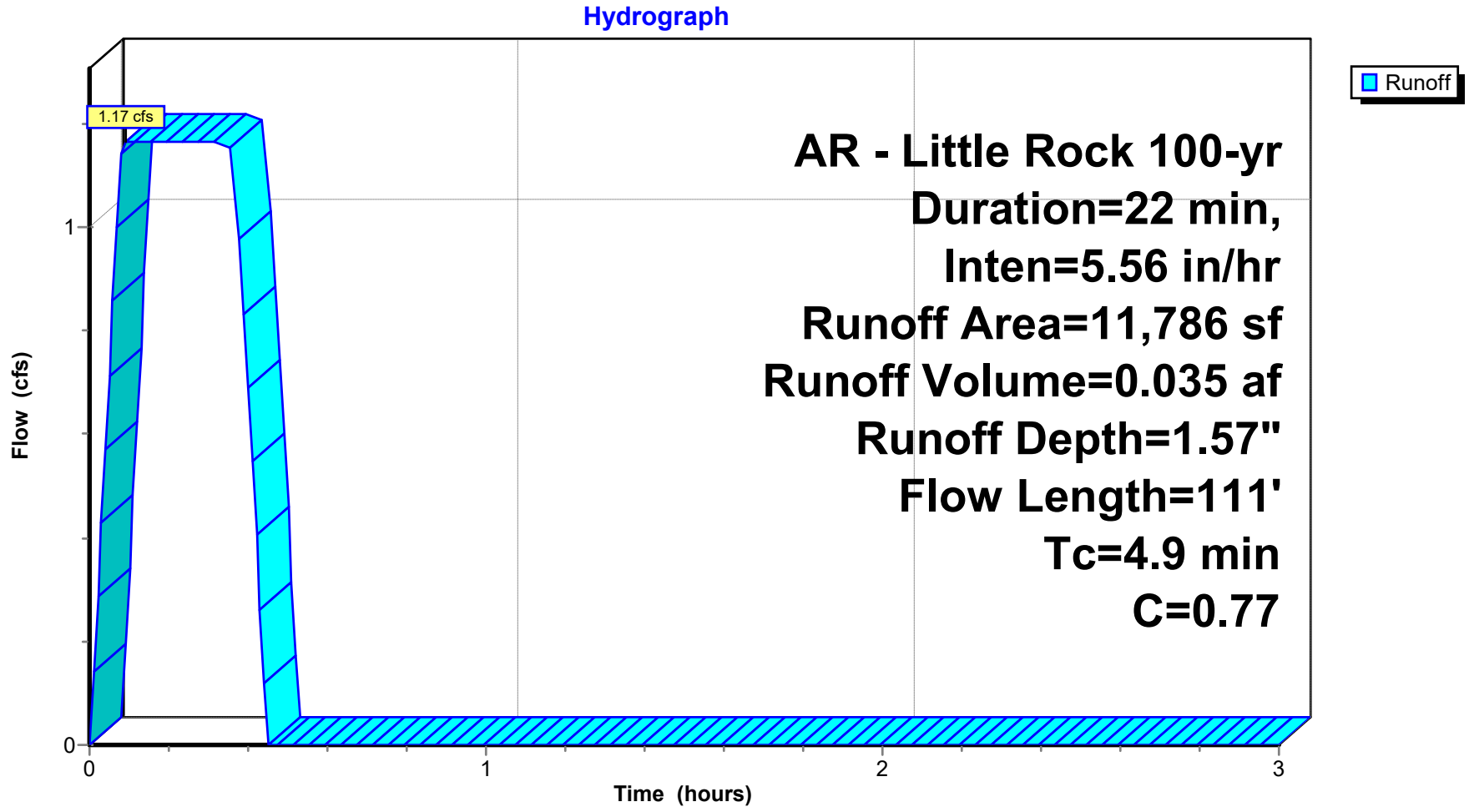
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
2,920	0.30	Sandy Soil 2-7% per manual
8,866	0.92	Paved Areas
11,786	0.77	Weighted Average
11,786		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	19	0.2500	0.38		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.2	16	0.0290	1.27		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	38	0.0100	0.98		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	38	0.0100	2.03		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
3.0					**Direct Entry, Minimum Adjustment**
4.9	111	Total			

Subcatchment DB-B3: Drainage Basin B3

Hydrograph



Summary for Subcatchment DB-B4: Drainage Basin B4

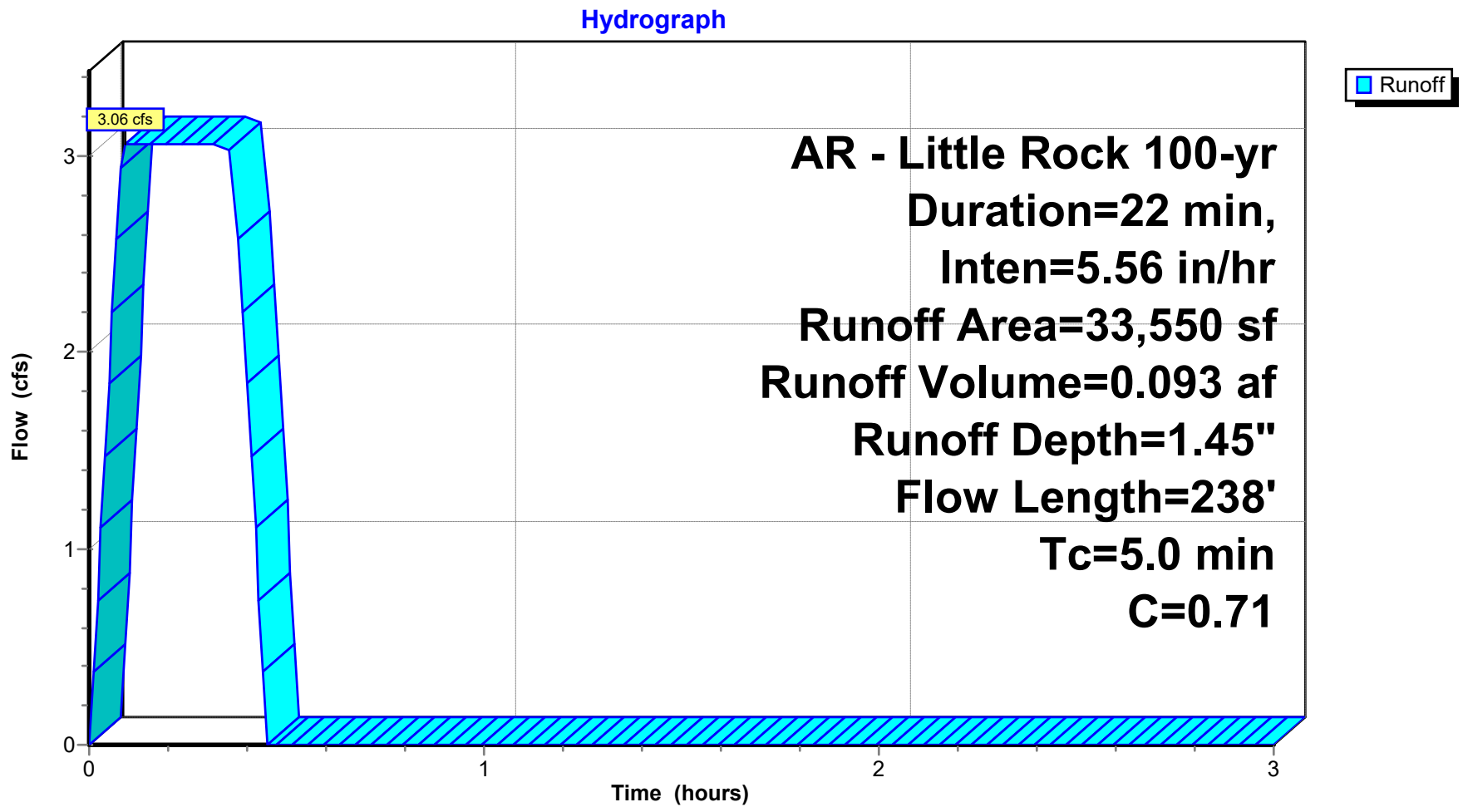
Runoff = 3.06 cfs @ 0.09 hrs, Volume= 0.093 af, Depth= 1.45"
Routed to Pond CI-A4 : CURB INLET A4

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
11,568	0.30	Sandy Soil 2-7% per manual
21,982	0.92	Paved Areas
33,550	0.71	Weighted Average
33,550		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	48	0.0530	2.01		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.3	25	0.0310	1.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	14	0.0020	0.42		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.9	66	0.0130	1.22		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.4	59	0.0120	2.22		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.5	19	0.0010	0.64		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
0.0	7	0.0700	5.37		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.9					**Direct Entry, Minimum Adjustment**
5.0	238	Total			

Subcatchment DB-B4: Drainage Basin B4



Summary for Subcatchment DB-B5: Drainage Basin B5

Runoff = 0.69 cfs @ 0.09 hrs, Volume= 0.021 af, Depth= 1.04"
Routed to Pond CI-A5 : CURB INLET A5

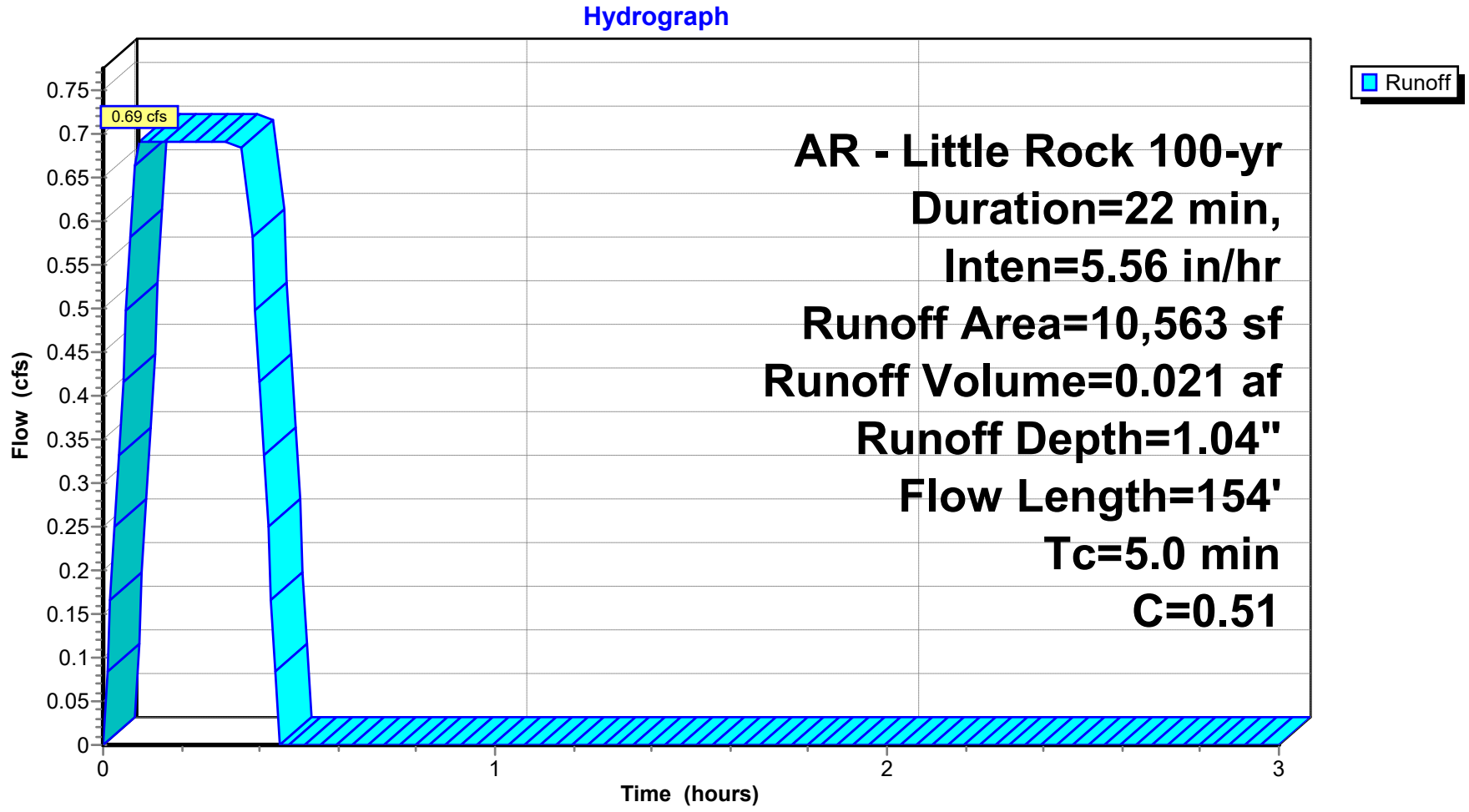
Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
6,980	0.30	Sandy Soil 2-7% per manual
3,583	0.92	Paved Areas
10,563	0.51	Weighted Average
10,563		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	19	0.0920	0.26		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
1.9	39	0.1260	0.34		**Sheet Flow, Greenspace** Grass: Short n= 0.150 P2= 4.20"
0.5	66	0.0540	2.16		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.1	30	0.0500	4.54		**Shallow Concentrated Flow, Gutter** Paved Kv= 20.3 fps
1.3					**Direct Entry, Minimum Adjustment**
5.0	154	Total			

Subcatchment DB-B5: Drainage Basin B5

Hydrograph



Summary for Subcatchment DB-B6: Drainage Basin B6

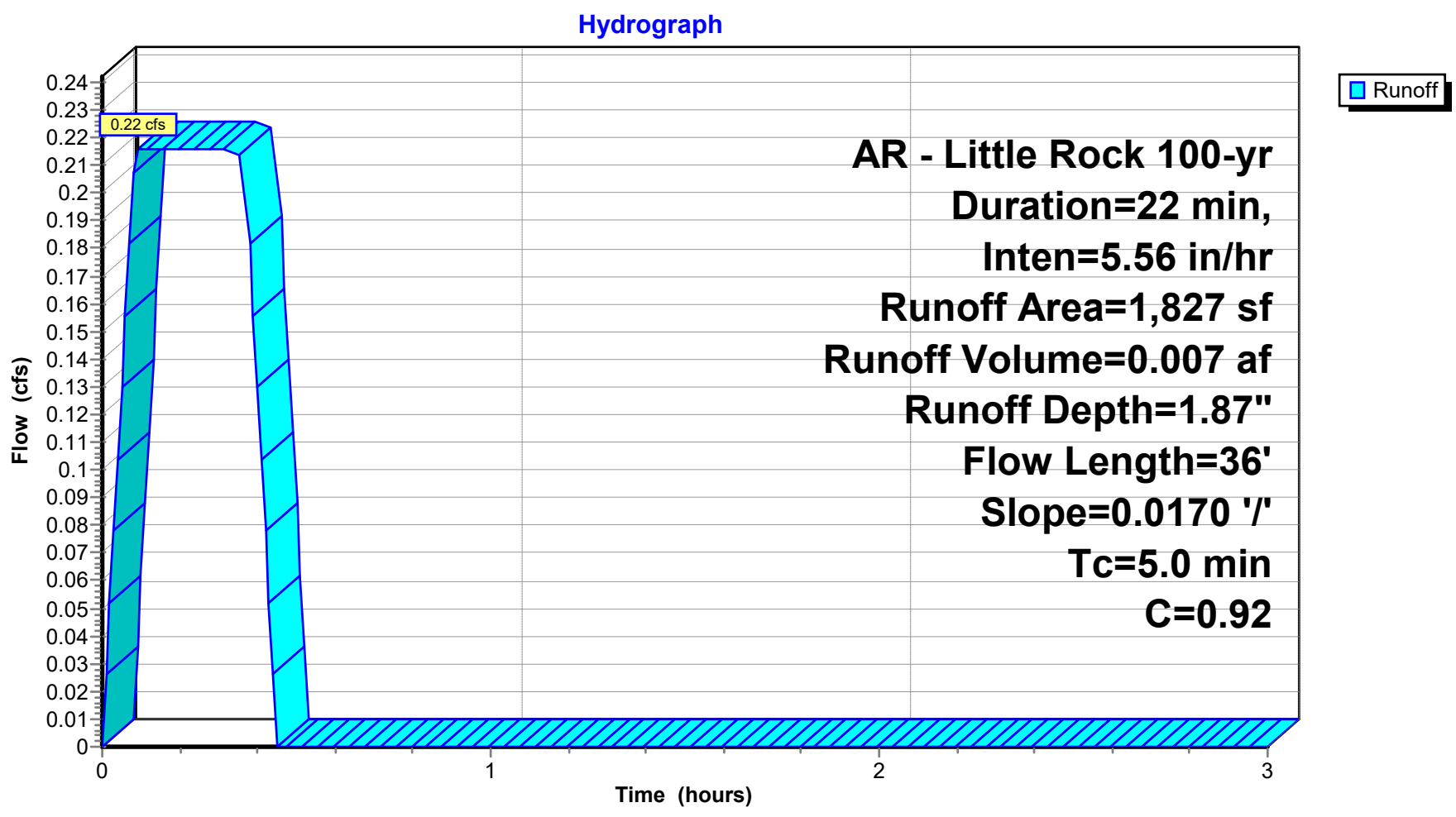
Runoff = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af, Depth= 1.87"
Routed to Pond AI-B1 : AREA INLET B1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
0	0.30	Sandy Soil 2-7% per manual
1,827	0.92	Paved Areas
1,827	0.92	Weighted Average
1,827		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	36	0.0170	1.20		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.5					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B6: Drainage Basin B6



Summary for Subcatchment DB-B7: Drainage Basin B7

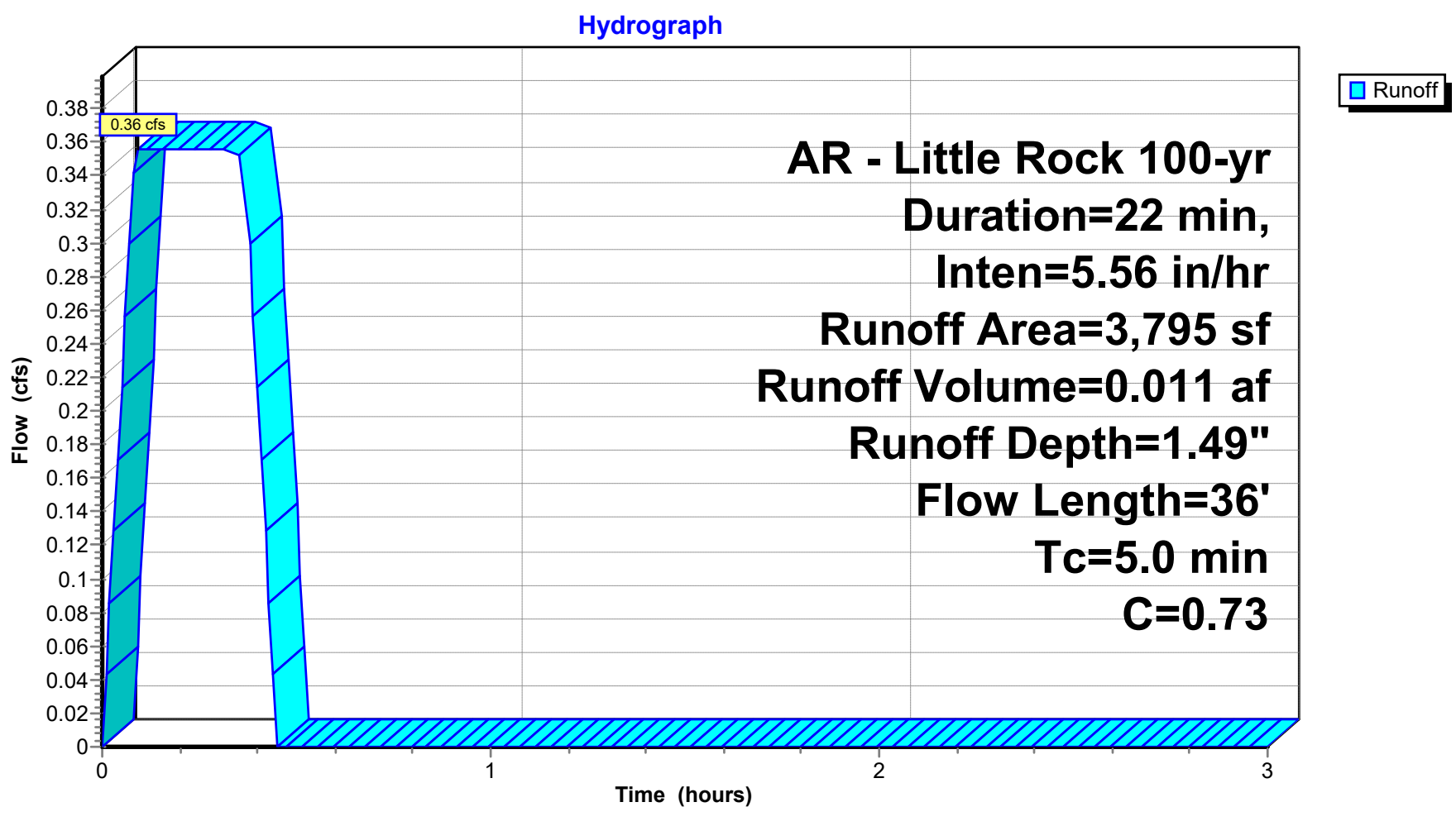
Runoff = 0.36 cfs @ 0.09 hrs, Volume= 0.011 af, Depth= 1.49"
Routed to Pond AI-B2 : AREA INLET B2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
1,158	0.30	Sandy Soil 2-7% per manual
2,637	0.92	Paved Areas
3,795	0.73	Weighted Average
3,795		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	24	0.0020	0.47		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
0.2	12	0.0160	0.94		**Sheet Flow, Concrete** Smooth surfaces n= 0.011 P2= 4.20"
4.0					**Direct Entry, Minimum Adjustment**
5.0	36	Total			

Subcatchment DB-B7: Drainage Basin B7



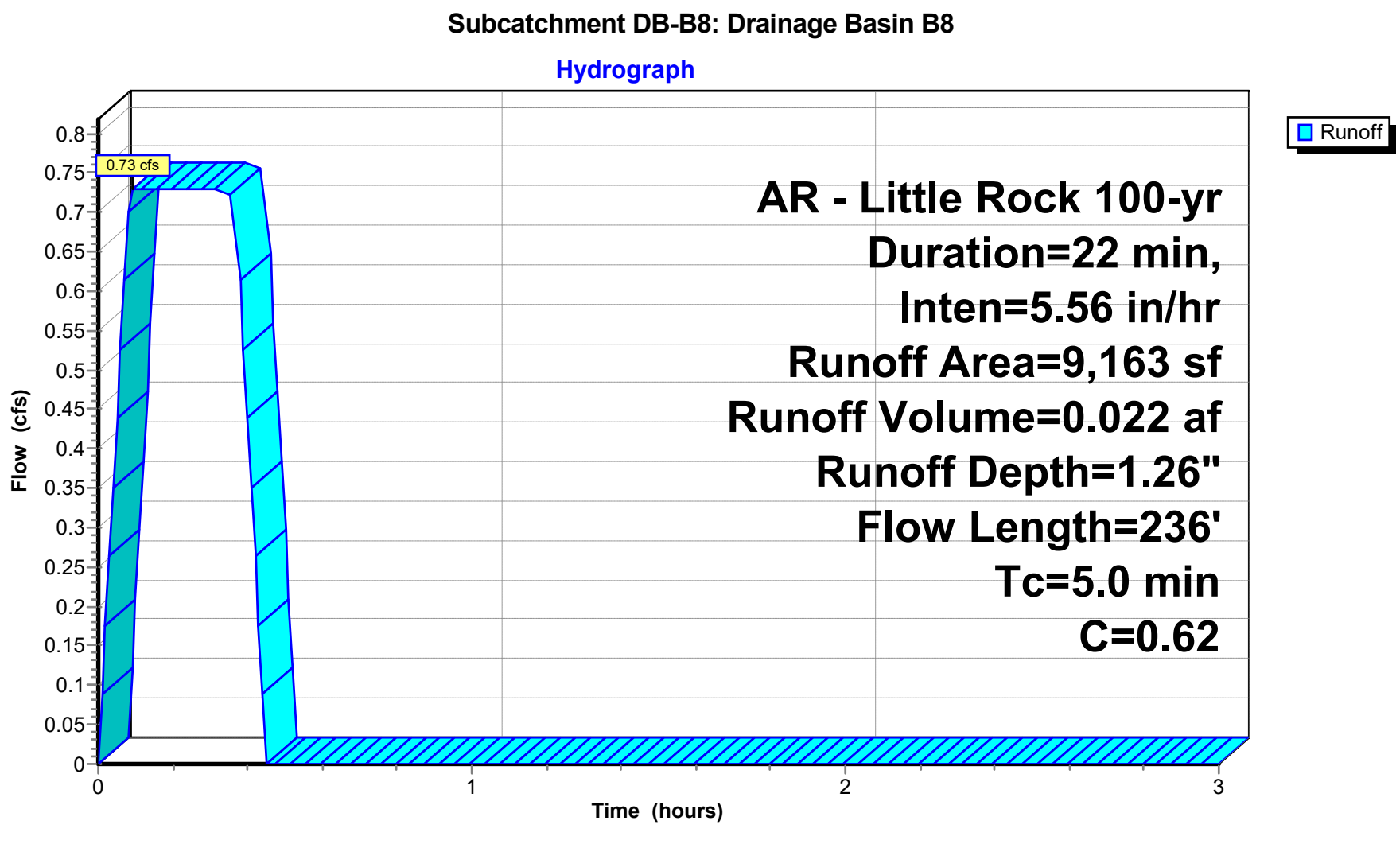
Summary for Subcatchment DB-B8: Drainage Basin B8

Runoff = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af, Depth= 1.26"
Routed to Pond CI-C1 : CURB INLET C1

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
4,431	0.30	Sadny Soil 2-7% per manual
4,732	0.92	Paved Areas
9,163	0.62	Weighted Average
9,163		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0210	1.29		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.6	91	0.0620	2.43		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
0.8	112	0.0490	2.31		**Sheet Flow, Pavement** Smooth surfaces n= 0.011 P2= 4.20"
3.2					**Direct Entry, Minimum Adjustment**
5.0	236	Total			



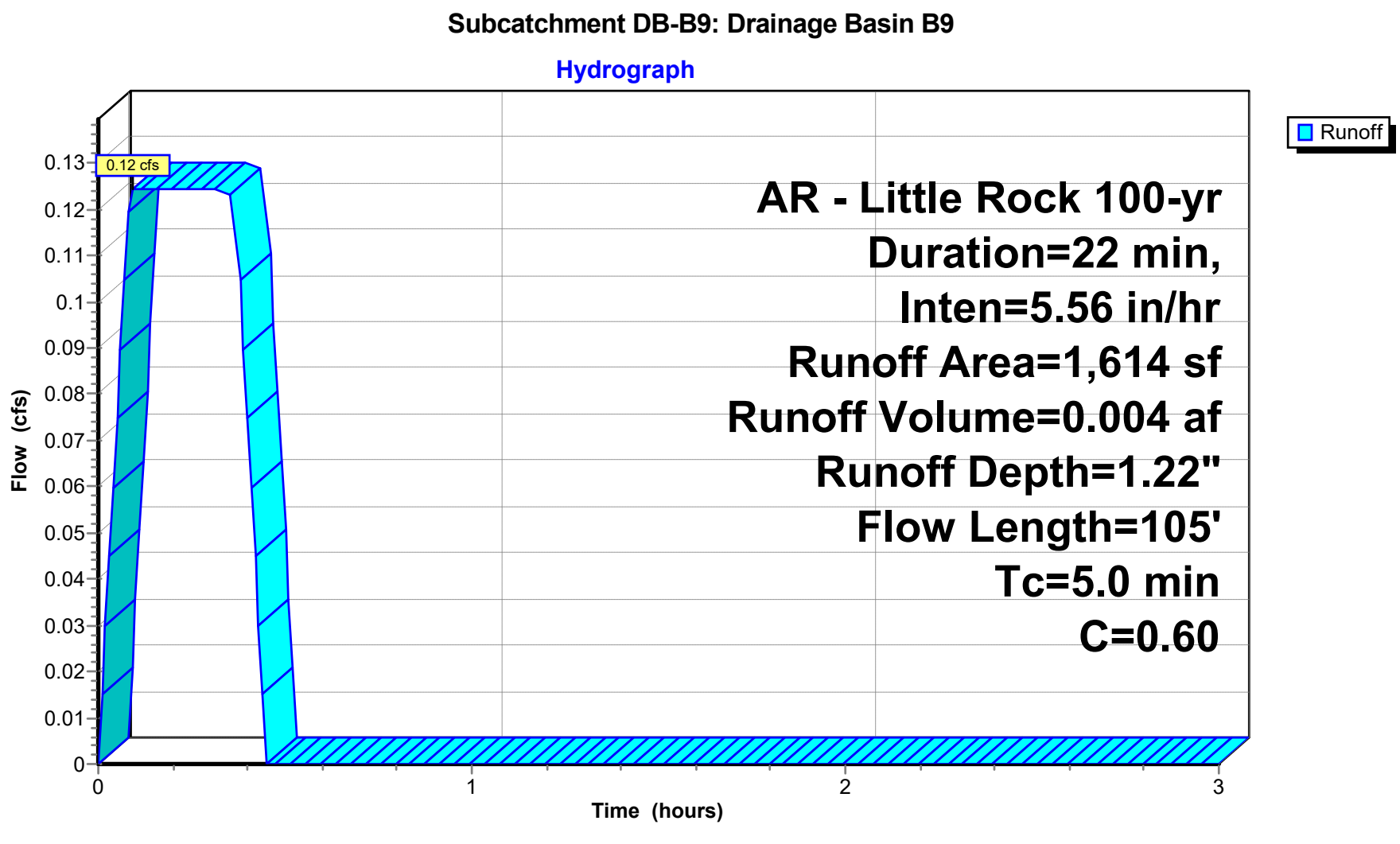
Summary for Subcatchment DB-B9: Drainage Basin B9

Runoff = 0.12 cfs @ 0.09 hrs, Volume= 0.004 af, Depth= 1.22"
Routed to Pond CI-C2 : CURB INLET C2

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
AR - Little Rock 100-yr Duration=22 min, Inten=5.56 in/hr

Area (sf)	C	Description
826	0.30	Sandy Soil 2-7% per manual
788	0.92	Paved Areas
1,614	0.60	Weighted Average
1,614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	62	0.0100	1.09		**Sheet Flow, Pavement**
					Smooth surfaces n= 0.011 P2= 4.20"
0.0	8	0.0230	3.08		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
0.2	35	0.0140	2.40		**Shallow Concentrated Flow, Gutter**
					Paved Kv= 20.3 fps
3.8					**Direct Entry, Minimum Adjustment**
5.0	105	Total			



Summary for Pond AI-B1: AREA INLET B1

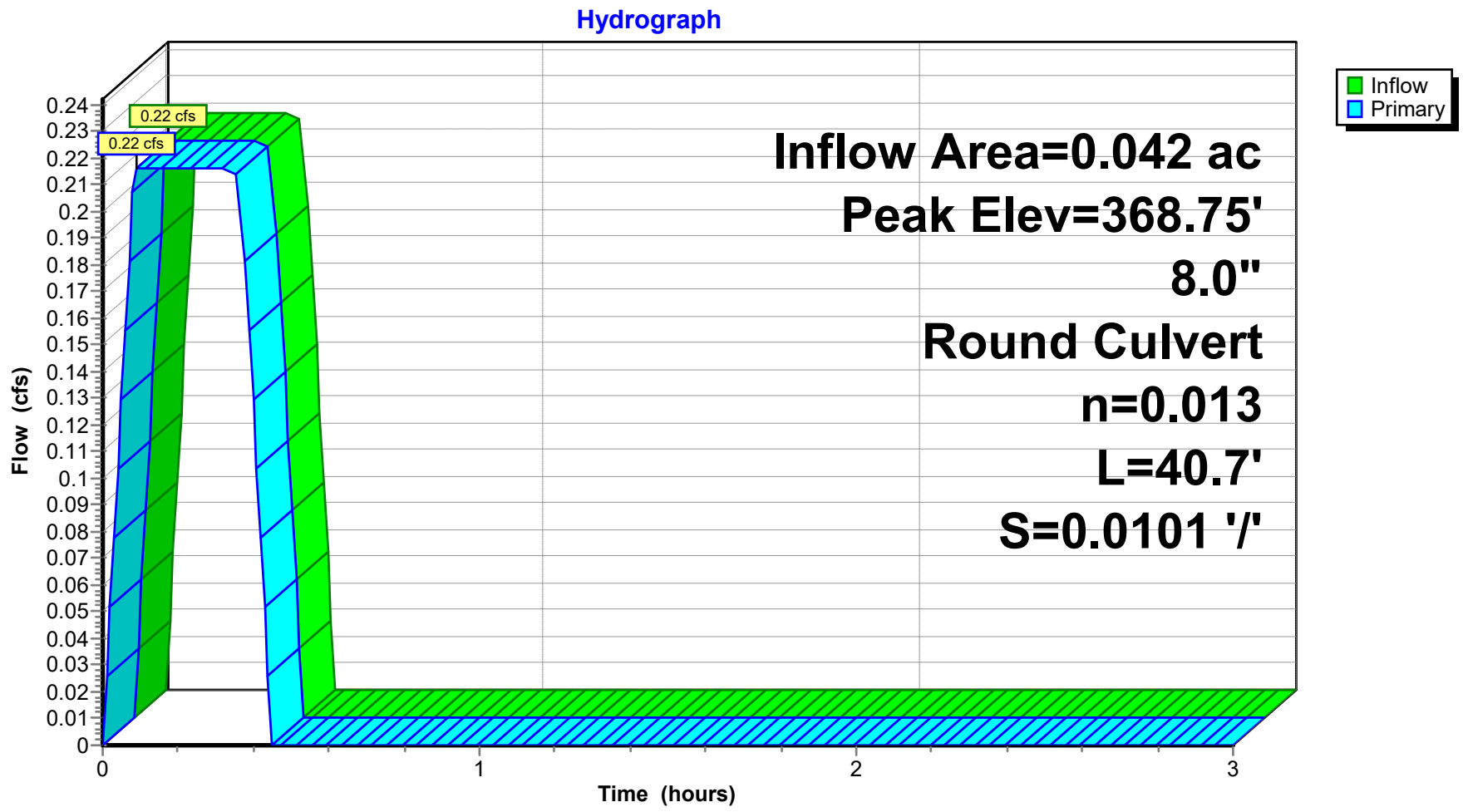
Inflow Area = 0.042 ac, 0.00% Impervious, Inflow Depth = 1.87" for 100-yr event
Inflow = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af
Outflow = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 0.09 hrs, Volume= 0.007 af
Routed to Pond AI-B2 : AREA INLET B2

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.75' @ 0.09 hrs

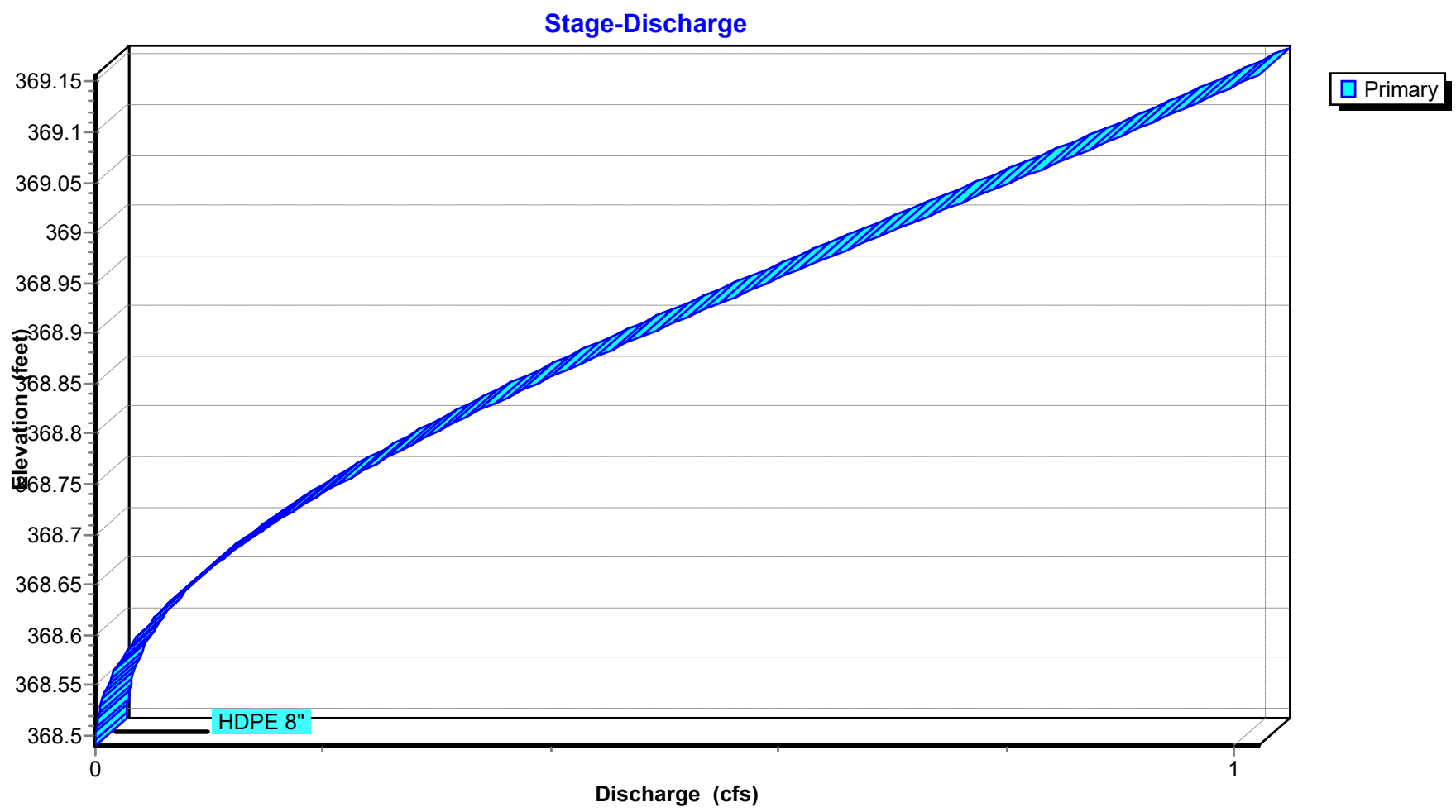
Device	Routing	Invert	Outlet Devices
#1	Primary	368.49'	**8.0" Round HDPE 8"** L= 40.7' Ke= 0.100 Inlet / Outlet Invert= 368.49' / 368.08' S= 0.0101 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.22 cfs @ 0.09 hrs HW=368.75' (Free Discharge)
└**1=HDPE 8"** (Barrel Controls 0.22 cfs @ 2.52 fps)

Pond AI-B1: AREA INLET B1



Pond AI-B1: AREA INLET B1



Stage-Area-Storage for Pond AI-B1: AREA INLET B1

Elevation (feet)	Storage (acre-feet)
368.49	**0.000**
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000
368.66	0.000
368.67	0.000
368.68	0.000
368.69	0.000
368.70	0.000
368.71	0.000
368.72	0.000
368.73	0.000
368.74	0.000
368.75	0.000
368.76	0.000
368.77	0.000
368.78	0.000
368.79	0.000
368.80	0.000
368.81	0.000
368.82	0.000
368.83	0.000
368.84	0.000
368.85	0.000
368.86	0.000
368.87	0.000
368.88	0.000
368.89	0.000
368.90	0.000
368.91	0.000
368.92	0.000
368.93	0.000
368.94	0.000
368.95	0.000
368.96	0.000
368.97	0.000
368.98	0.000
368.99	0.000
369.00	0.000
369.01	0.000
369.02	0.000
369.03	0.000
369.04	0.000
369.05	0.000
369.06	0.000
369.07	0.000
369.08	0.000
369.09	0.000
369.10	0.000
369.11	0.000
369.12	0.000
369.13	0.000
369.14	0.000
369.15	0.000
369.16	0.000

Summary for Pond AI-B2: AREA INLET B2

Inflow Area = 0.129 ac, 0.00% Impervious, Inflow Depth = 1.61" for 100-yr event
Inflow = 0.57 cfs @ 0.09 hrs, Volume= 0.017 af
Outflow = 0.57 cfs @ 0.10 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.6 min
Primary = 0.57 cfs @ 0.10 hrs, Volume= 0.017 af
Routed to Pond CI-A2 : CURB INLET A2

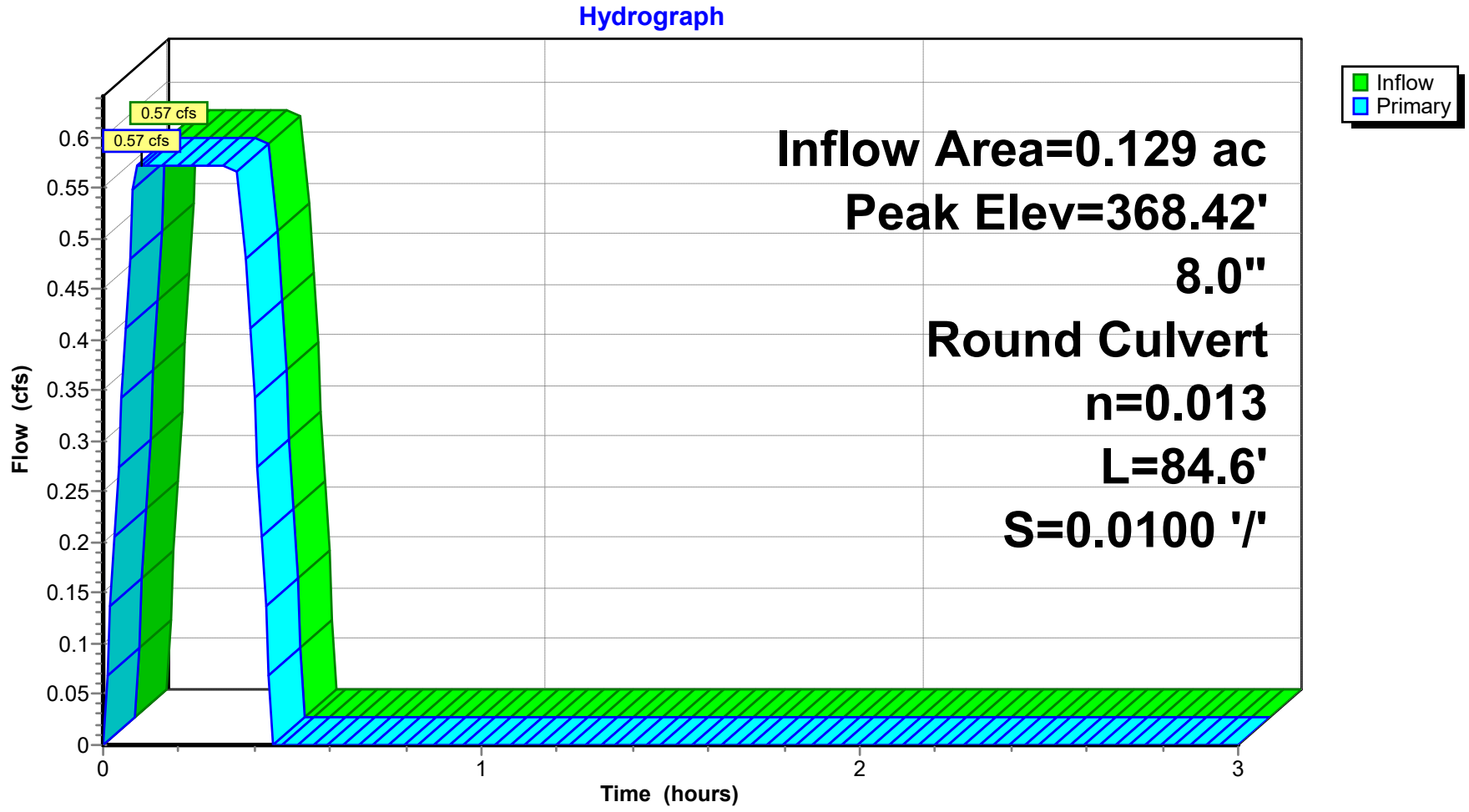
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.42' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.98'	**8.0" Round HDPE** L= 84.6' Ke= 0.100 Inlet / Outlet Invert= 367.98' / 367.13' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 0.35 sf

Primary OutFlow Max=0.57 cfs @ 0.10 hrs HW=368.42' (Free Discharge)
└**1=HDPE** (Barrel Controls 0.57 cfs @ 3.30 fps)

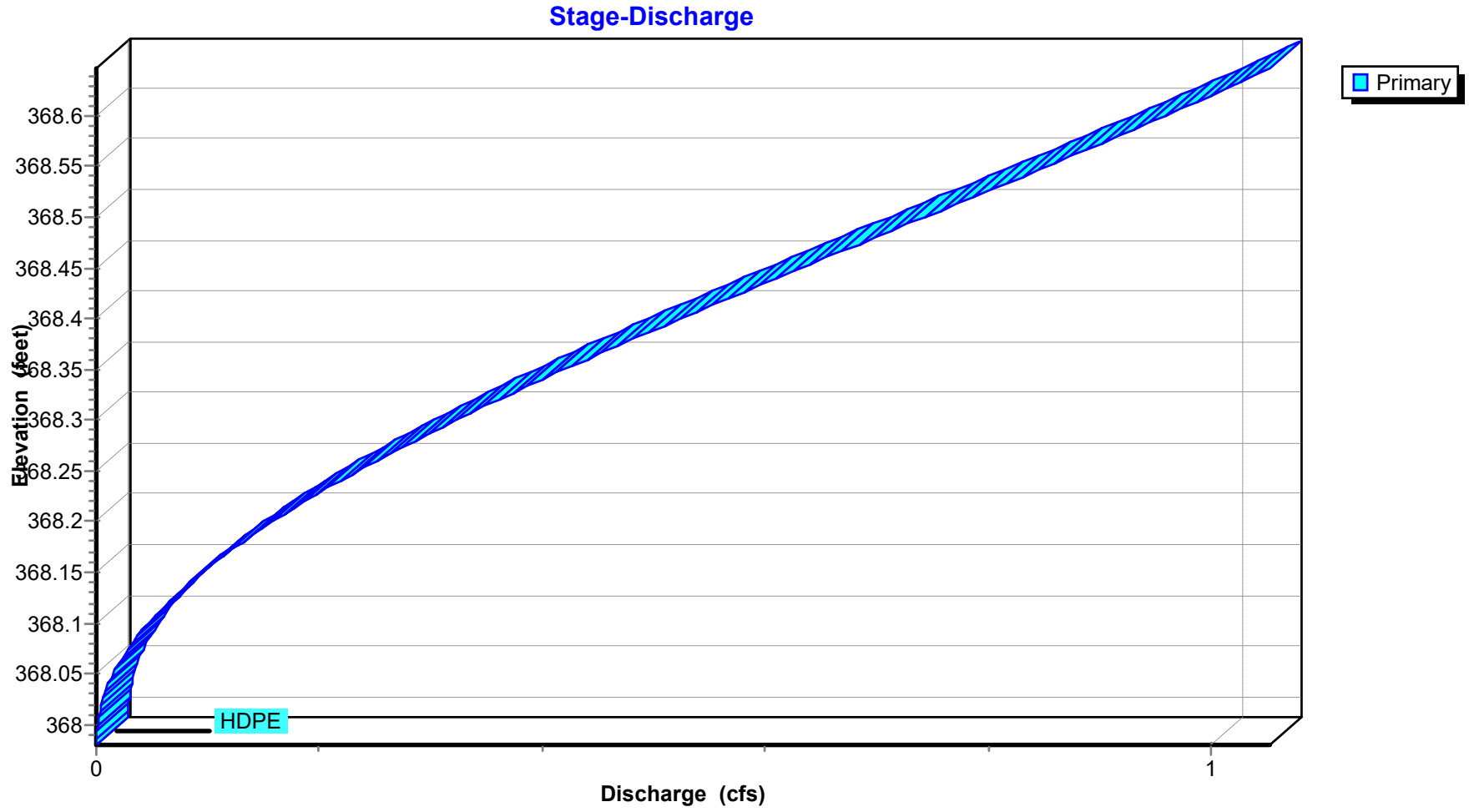
Pond AI-B2: AREA INLET B2

Hydrograph



Pond AI-B2: AREA INLET B2

Stage-Discharge



Stage-Area-Storage for Pond AI-B2: AREA INLET B2

Elevation (feet)	Storage (acre-feet)
367.98	**0.000**
367.99	0.000
368.00	0.000
368.01	0.000
368.02	0.000
368.03	0.000
368.04	0.000
368.05	0.000
368.06	0.000
368.07	0.000
368.08	0.000
368.09	0.000
368.10	0.000
368.11	0.000
368.12	0.000
368.13	0.000
368.14	0.000
368.15	0.000
368.16	0.000
368.17	0.000
368.18	0.000
368.19	0.000
368.20	0.000
368.21	0.000
368.22	0.000
368.23	0.000
368.24	0.000
368.25	0.000
368.26	0.000
368.27	0.000
368.28	0.000
368.29	0.000
368.30	0.000
368.31	0.000
368.32	0.000
368.33	0.000
368.34	0.000
368.35	0.000
368.36	0.000
368.37	0.000
368.38	0.000
368.39	0.000
368.40	0.000
368.41	0.000
368.42	0.000
368.43	0.000
368.44	0.000
368.45	0.000
368.46	0.000
368.47	0.000
368.48	0.000
368.49	0.000
368.50	0.000
368.51	0.000
368.52	0.000
368.53	0.000
368.54	0.000
368.55	0.000
368.56	0.000
368.57	0.000
368.58	0.000
368.59	0.000
368.60	0.000
368.61	0.000
368.62	0.000
368.63	0.000
368.64	0.000
368.65	0.000

Summary for Pond CI-A1: CURB INLET A1

Inflow Area = 0.443 ac, 0.00% Impervious, Inflow Depth = 1.75" for 100-yr event
Inflow = 2.14 cfs @ 0.09 hrs, Volume= 0.065 af
Outflow = 2.14 cfs @ 0.10 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.6 min
Primary = 2.14 cfs @ 0.10 hrs, Volume= 0.065 af
Routed to Pond CI-A2 : CURB INLET A2

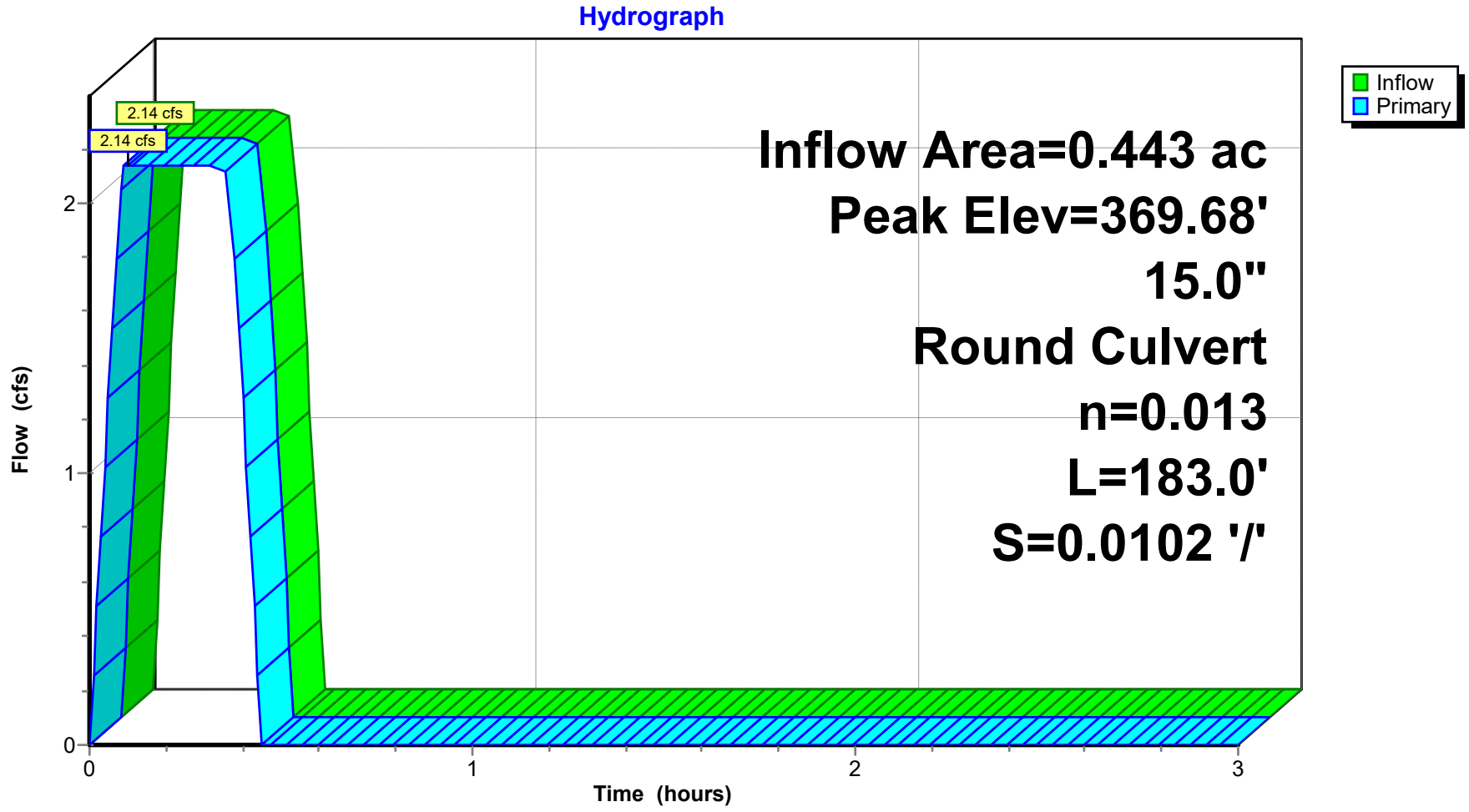
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 369.68' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	369.00'	**15.0" Round RCP_Round 15"** L= 183.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 369.00' / 367.13' S= 0.0102 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.23 sf

Primary OutFlow Max=2.14 cfs @ 0.10 hrs HW=369.68' (Free Discharge)
└**1=RCP_Round 15"** (Barrel Controls 2.14 cfs @ 4.58 fps)

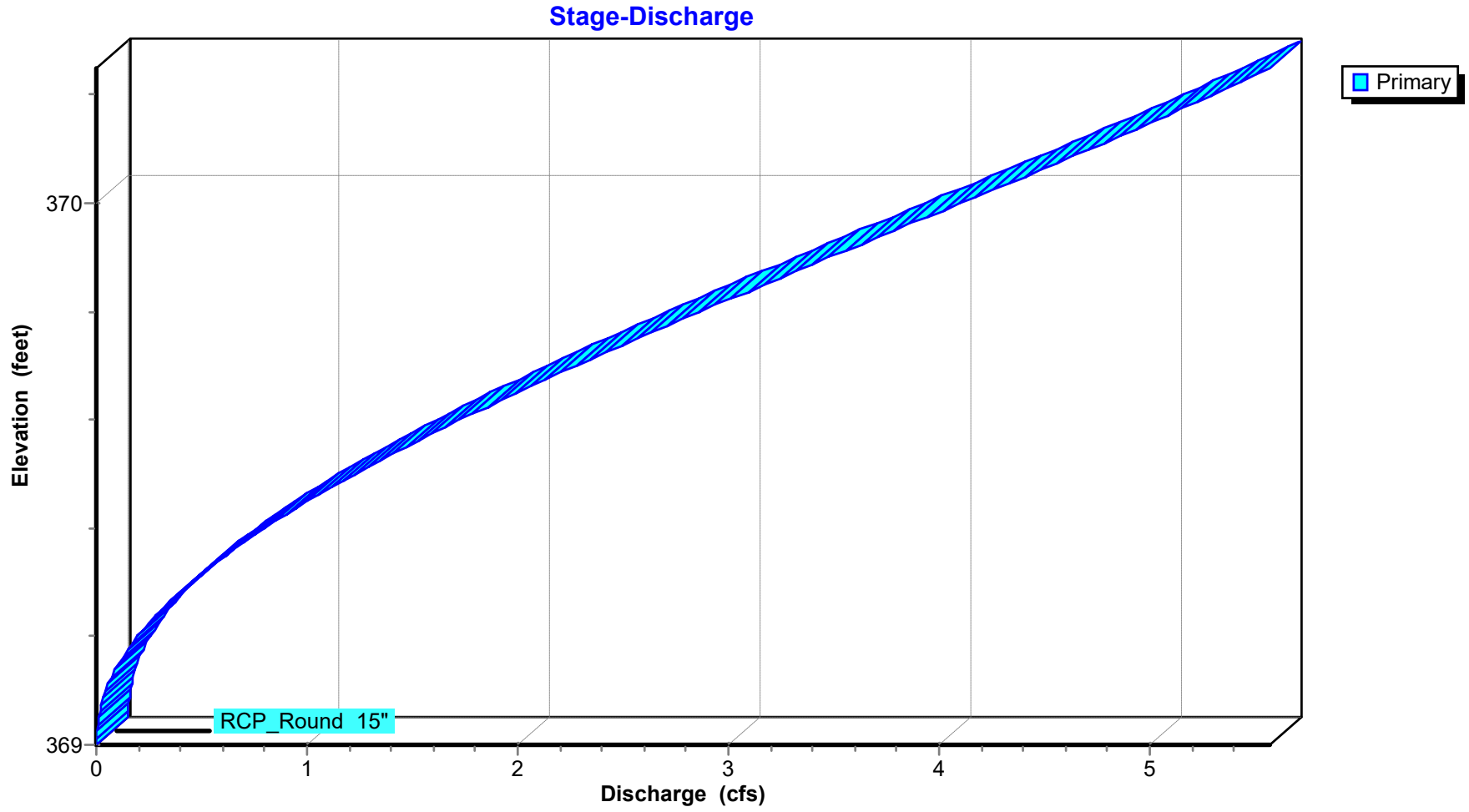
Pond CI-A1: CURB INLET A1

Hydrograph



Pond CI-A1: CURB INLET A1

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
369.00	**0.000**	369.92	0.000
369.01	0.000	369.93	0.000
369.02	0.000	369.94	0.000
369.03	0.000	369.95	0.000
369.04	0.000	369.96	0.000
369.05	0.000	369.97	0.000
369.06	0.000	369.98	0.000
369.07	0.000	369.99	0.000
369.08	0.000	370.00	0.000
369.09	0.000	370.01	0.000
369.10	0.000	370.02	0.000
369.11	0.000	370.03	0.000
369.12	0.000	370.04	0.000
369.13	0.000	370.05	0.000
369.14	0.000	370.06	0.000
369.15	0.000	370.07	0.000
369.16	0.000	370.08	0.000
369.17	0.000	370.09	0.000
369.18	0.000	370.10	0.000
369.19	0.000	370.11	0.000
369.20	0.000	370.12	0.000
369.21	0.000	370.13	0.000
369.22	0.000	370.14	0.000
369.23	0.000	370.15	0.000
369.24	0.000	370.16	0.000
369.25	0.000	370.17	0.000
369.26	0.000	370.18	0.000
369.27	0.000	370.19	0.000
369.28	0.000	370.20	0.000
369.29	0.000	370.21	0.000
369.30	0.000	370.22	0.000
369.31	0.000	370.23	0.000
369.32	0.000	370.24	0.000
369.33	0.000	370.25	0.000
369.34	0.000		
369.35	0.000		
369.36	0.000		
369.37	0.000		
369.38	0.000		
369.39	0.000		
369.40	0.000		
369.41	0.000		
369.42	0.000		
369.43	0.000		
369.44	0.000		
369.45	0.000		
369.46	0.000		
369.47	0.000		
369.48	0.000		
369.49	0.000		
369.50	0.000		
369.51	0.000		
369.52	0.000		
369.53	0.000		
369.54	0.000		
369.55	0.000		
369.56	0.000		
369.57	0.000		
369.58	0.000		
369.59	0.000		
369.60	0.000		
369.61	0.000		
369.62	0.000		
369.63	0.000		
369.64	0.000		
369.65	0.000		
369.66	0.000		
369.67	0.000		
369.68	0.000		
369.69	0.000		
369.70	0.000		
369.71	0.000		
369.72	0.000		
369.73	0.000		
369.74	0.000		
369.75	0.000		
369.76	0.000		
369.77	0.000		
369.78	0.000		
369.79	0.000		
369.80	0.000		
369.81	0.000		
369.82	0.000		
369.83	0.000		
369.84	0.000		
369.85	0.000		
369.86	0.000		
369.87	0.000		
369.88	0.000		
369.89	0.000		
369.90	0.000		
369.91	0.000		

Summary for Pond CI-A2: CURB INLET A2

Inflow Area = 1.156 ac, 0.00% Impervious, Inflow Depth = 1.51" for 100-yr event
Inflow = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af
Outflow = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 4.80 cfs @ 0.15 hrs, Volume= 0.145 af
Routed to Pond CI-A3 : CURB INLET A3

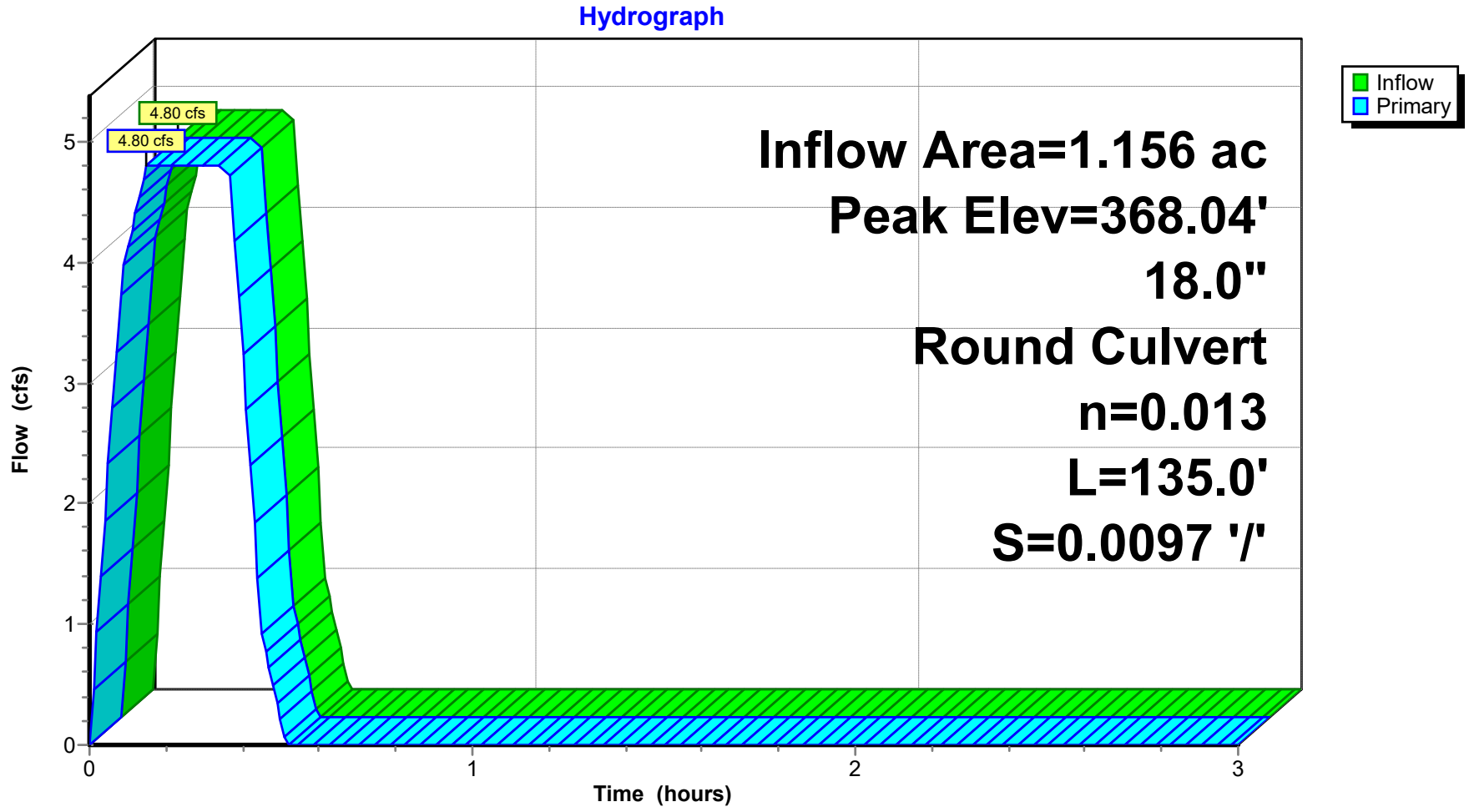
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.04' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.03'	**18.0" Round RCP_Round 18"** L= 135.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.03' / 365.72' S= 0.0097 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=4.80 cfs @ 0.15 hrs HW=368.04' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 4.80 cfs @ 5.33 fps)

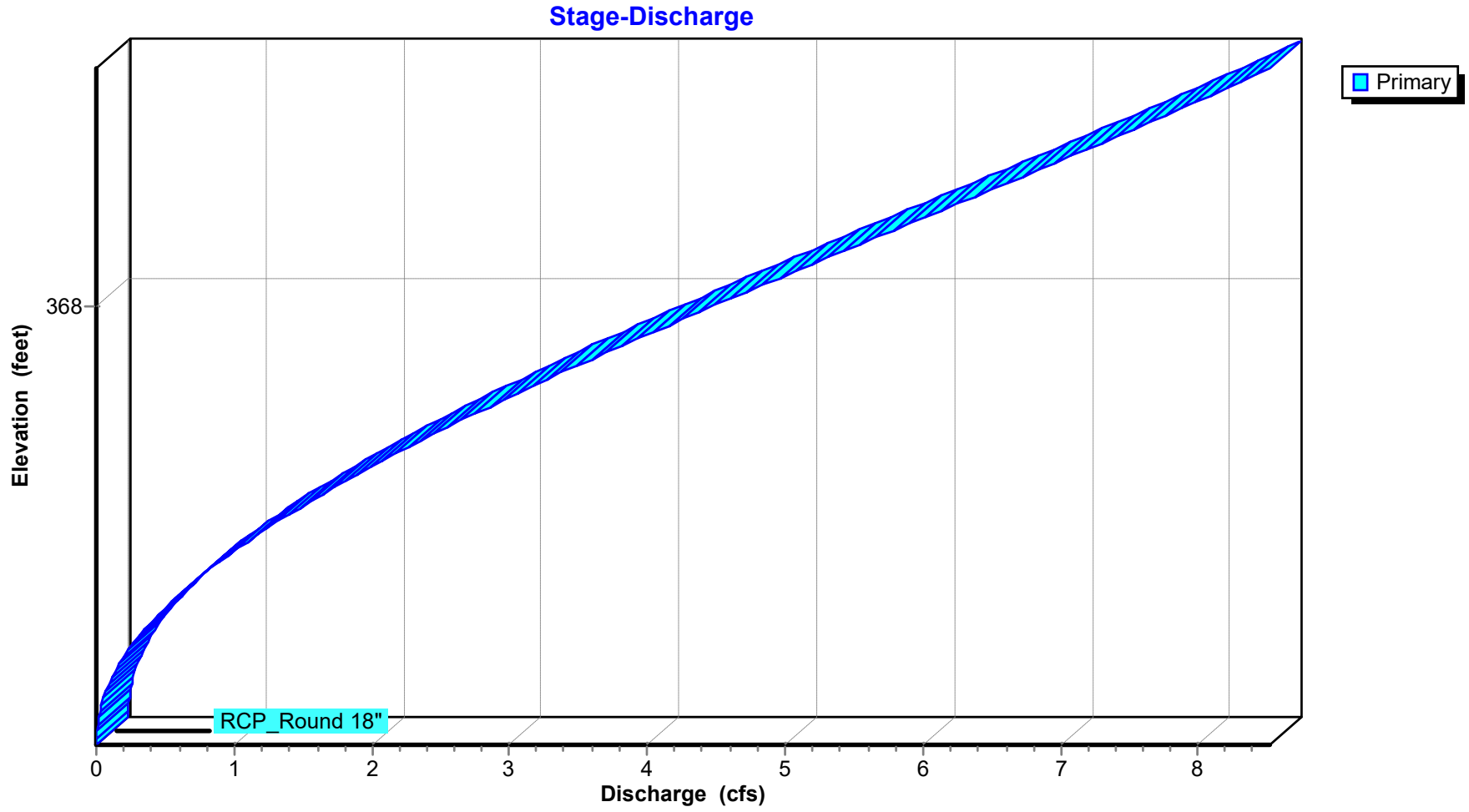
Pond CI-A2: CURB INLET A2

Hydrograph



Pond CI-A2: CURB INLET A2

Stage-Discharge



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

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.03	**0.000**	367.95	0.000
367.04	0.000	367.96	0.000
367.05	0.000	367.97	0.000
367.06	0.000	367.98	0.000
367.07	0.000	367.99	0.000
367.08	0.000	368.00	0.000
367.09	0.000	368.01	0.000
367.10	0.000	368.02	0.000
367.11	0.000	368.03	0.000
367.12	0.000	368.04	0.000
367.13	0.000	368.05	0.000
367.14	0.000	368.06	0.000
367.15	0.000	368.07	0.000
367.16	0.000	368.08	0.000
367.17	0.000	368.09	0.000
367.18	0.000	368.10	0.000
367.19	0.000	368.11	0.000
367.20	0.000	368.12	0.000
367.21	0.000	368.13	0.000
367.22	0.000	368.14	0.000
367.23	0.000	368.15	0.000
367.24	0.000	368.16	0.000
367.25	0.000	368.17	0.000
367.26	0.000	368.18	0.000
367.27	0.000	368.19	0.000
367.28	0.000	368.20	0.000
367.29	0.000	368.21	0.000
367.30	0.000	368.22	0.000
367.31	0.000	368.23	0.000
367.32	0.000	368.24	0.000
367.33	0.000	368.25	0.000
367.34	0.000	368.26	0.000
367.35	0.000	368.27	0.000
367.36	0.000	368.28	0.000
367.37	0.000	368.29	0.000
367.38	0.000	368.30	0.000
367.39	0.000	368.31	0.000
367.40	0.000	368.32	0.000
367.41	0.000	368.33	0.000
367.42	0.000	368.34	0.000
367.43	0.000	368.35	0.000
367.44	0.000	368.36	0.000
367.45	0.000	368.37	0.000
367.46	0.000	368.38	0.000
367.47	0.000	368.39	0.000
367.48	0.000	368.40	0.000
367.49	0.000	368.41	0.000
367.50	0.000	368.42	0.000
367.51	0.000	368.43	0.000
367.52	0.000	368.44	0.000
367.53	0.000	368.45	0.000
367.54	0.000	368.46	0.000
367.55	0.000	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000		
367.63	0.000		
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		

Summary for Pond CI-A3: CURB INLET A3

Inflow Area = 1.426 ac, 0.00% Impervious, Inflow Depth = 1.52" for 100-yr event
Inflow = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af
Outflow = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af, Atten= 0%, Lag= 0.0 min
Primary = 5.97 cfs @ 0.15 hrs, Volume= 0.181 af
Routed to Pond CI-A4 : CURB INLET A4

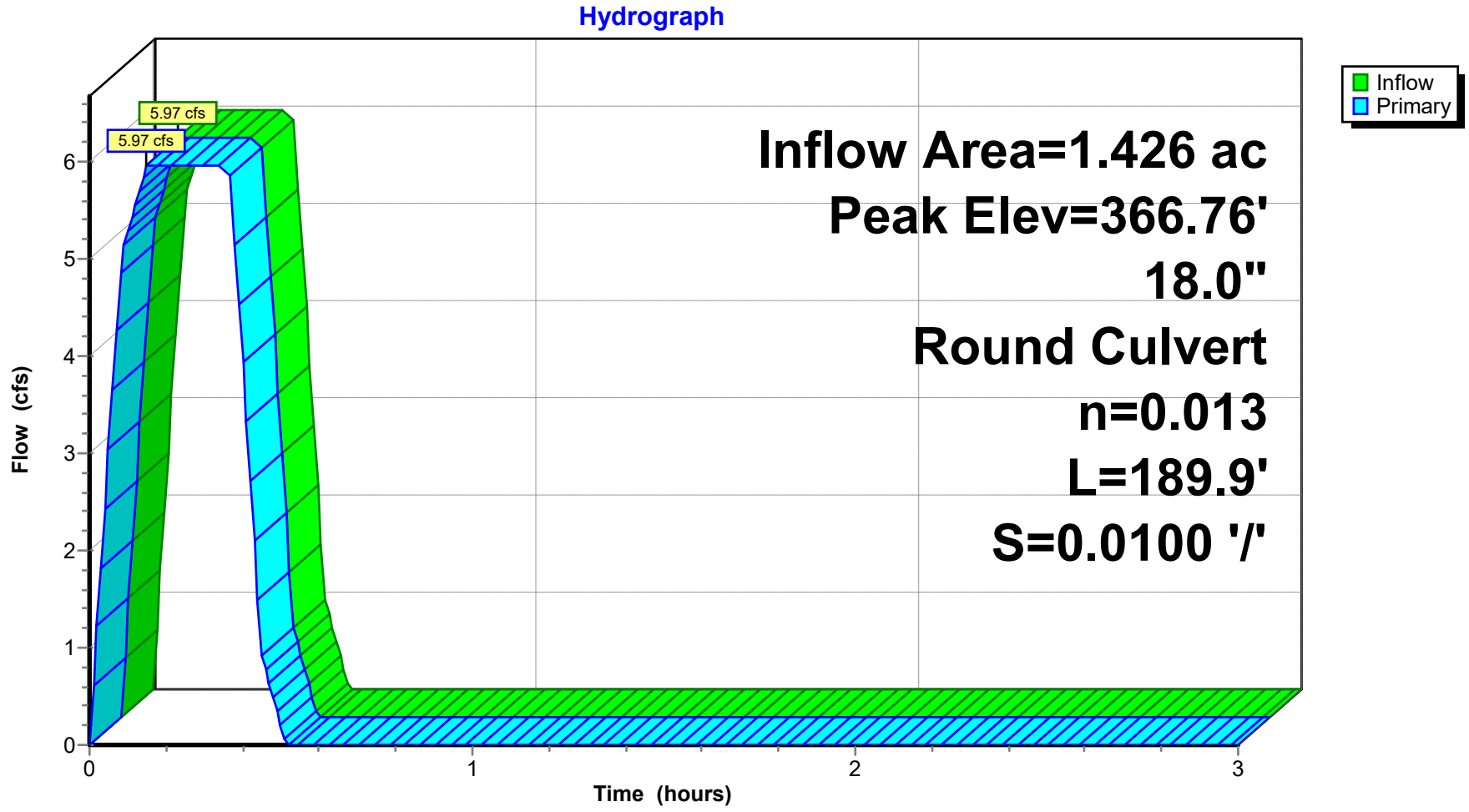
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 366.76' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	365.62'	**18.0" Round RCP_Round 18"** L= 189.9' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 365.62' / 363.72' S= 0.0100 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=5.97 cfs @ 0.15 hrs HW=366.76' (Free Discharge)
└**1=RCP_Round 18"** (Barrel Controls 5.97 cfs @ 5.76 fps)

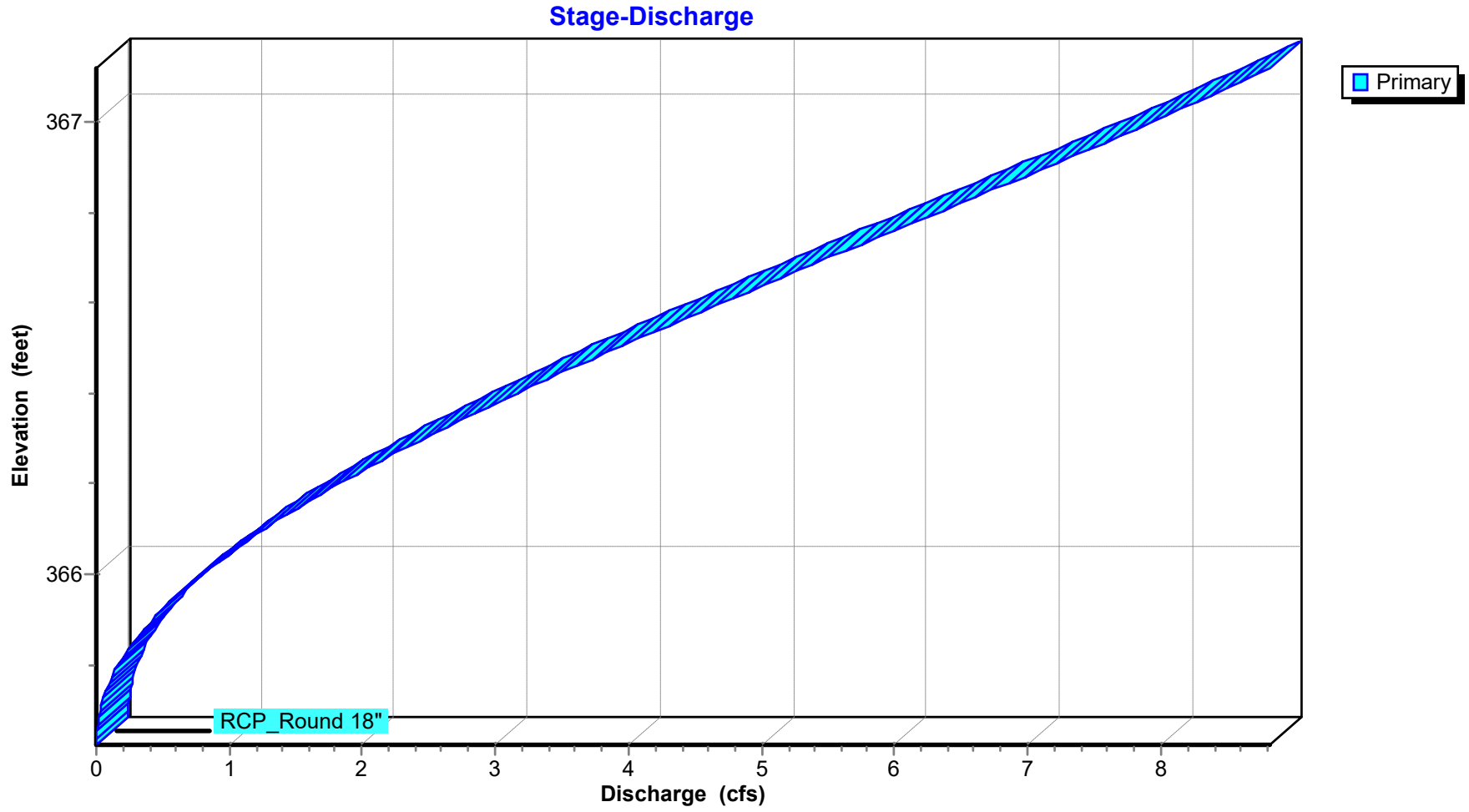
Pond CI-A3: CURB INLET A3

Hydrograph



Pond CI-A3: CURB INLET A3

Stage-Discharge



Stage-Area-Storage for Pond CI-A3: CURB INLET A3

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
365.62	**0.000**	366.54	0.000
365.63	0.000	366.55	0.000
365.64	0.000	366.56	0.000
365.65	0.000	366.57	0.000
365.66	0.000	366.58	0.000
365.67	0.000	366.59	0.000
365.68	0.000	366.60	0.000
365.69	0.000	366.61	0.000
365.70	0.000	366.62	0.000
365.71	0.000	366.63	0.000
365.72	0.000	366.64	0.000
365.73	0.000	366.65	0.000
365.74	0.000	366.66	0.000
365.75	0.000	366.67	0.000
365.76	0.000	366.68	0.000
365.77	0.000	366.69	0.000
365.78	0.000	366.70	0.000
365.79	0.000	366.71	0.000
365.80	0.000	366.72	0.000
365.81	0.000	366.73	0.000
365.82	0.000	366.74	0.000
365.83	0.000	366.75	0.000
365.84	0.000	366.76	0.000
365.85	0.000	366.77	0.000
365.86	0.000	366.78	0.000
365.87	0.000	366.79	0.000
365.88	0.000	366.80	0.000
365.89	0.000	366.81	0.000
365.90	0.000	366.82	0.000
365.91	0.000	366.83	0.000
365.92	0.000	366.84	0.000
365.93	0.000	366.85	0.000
365.94	0.000	366.86	0.000
365.95	0.000	366.87	0.000
365.96	0.000	366.88	0.000
365.97	0.000	366.89	0.000
365.98	0.000	366.90	0.000
365.99	0.000	366.91	0.000
366.00	0.000	366.92	0.000
366.01	0.000	366.93	0.000
366.02	0.000	366.94	0.000
366.03	0.000	366.95	0.000
366.04	0.000	366.96	0.000
366.05	0.000	366.97	0.000
366.06	0.000	366.98	0.000
366.07	0.000	366.99	0.000
366.08	0.000	367.00	0.000
366.09	0.000	367.01	0.000
366.10	0.000	367.02	0.000
366.11	0.000	367.03	0.000
366.12	0.000	367.04	0.000
366.13	0.000	367.05	0.000
366.14	0.000	367.06	0.000
366.15	0.000	367.07	0.000
366.16	0.000	367.08	0.000
366.17	0.000	367.09	0.000
366.18	0.000	367.10	0.000
366.19	0.000	367.11	0.000
366.20	0.000	367.12	0.000
366.21	0.000		
366.22	0.000		
366.23	0.000		
366.24	0.000		
366.25	0.000		
366.26	0.000		
366.27	0.000		
366.28	0.000		
366.29	0.000		
366.30	0.000		
366.31	0.000		
366.32	0.000		
366.33	0.000		
366.34	0.000		
366.35	0.000		
366.36	0.000		
366.37	0.000		
366.38	0.000		
366.39	0.000		
366.40	0.000		
366.41	0.000		
366.42	0.000		
366.43	0.000		
366.44	0.000		
366.45	0.000		
366.46	0.000		
366.47	0.000		
366.48	0.000		
366.49	0.000		
366.50	0.000		
366.51	0.000		
366.52	0.000		
366.53	0.000		

Summary for Pond CI-A4: CURB INLET A4

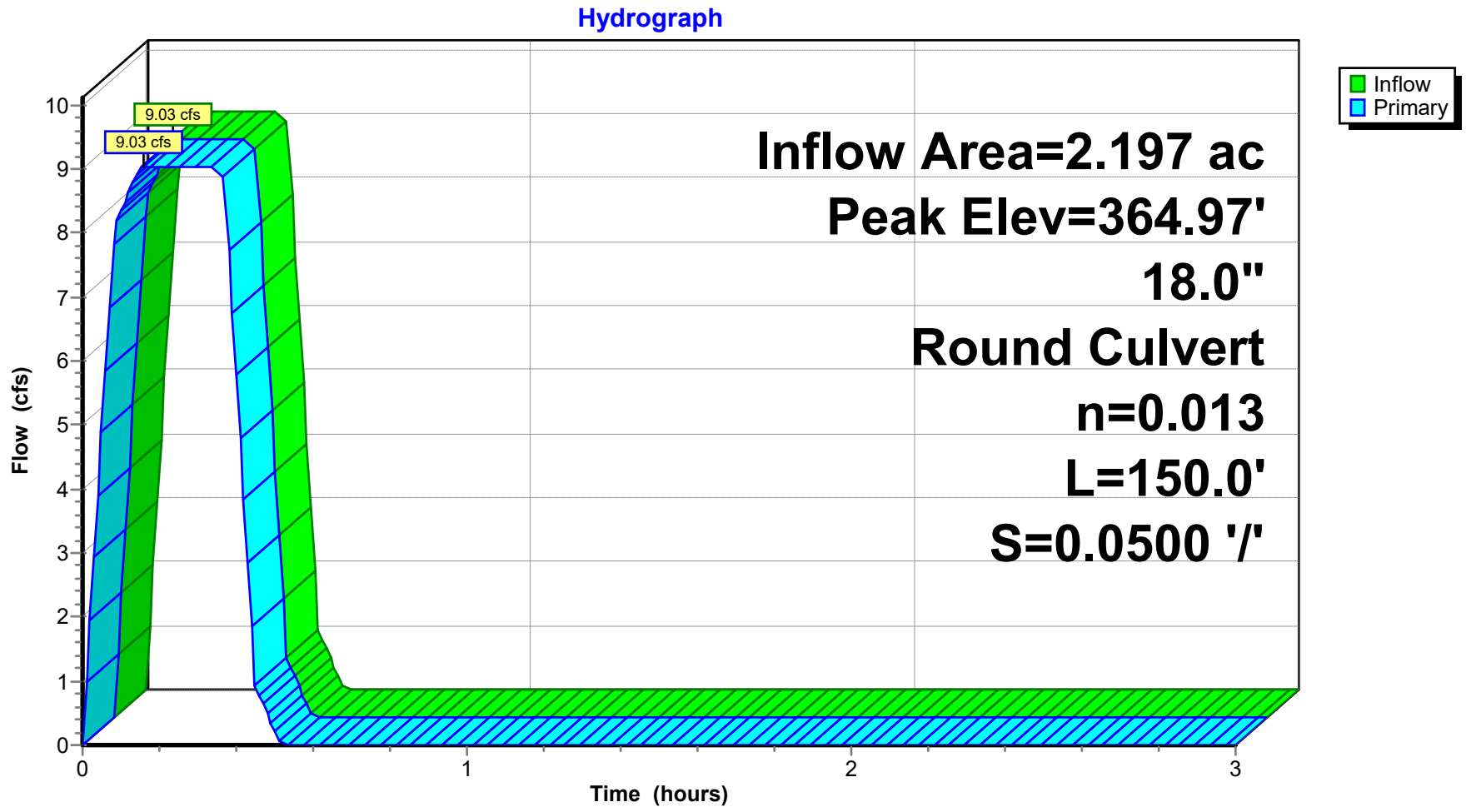
Inflow Area = 2.197 ac, 0.00% Impervious, Inflow Depth = 1.49" for 100-yr event
Inflow = 9.03 cfs @ 0.15 hrs, Volume= 0.273 af
Outflow = 9.03 cfs @ 0.16 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.6 min
Primary = 9.03 cfs @ 0.16 hrs, Volume= 0.273 af
Routed to Pond CI-A5 : CURB INLET A5

Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 364.97' @ 0.15 hrs

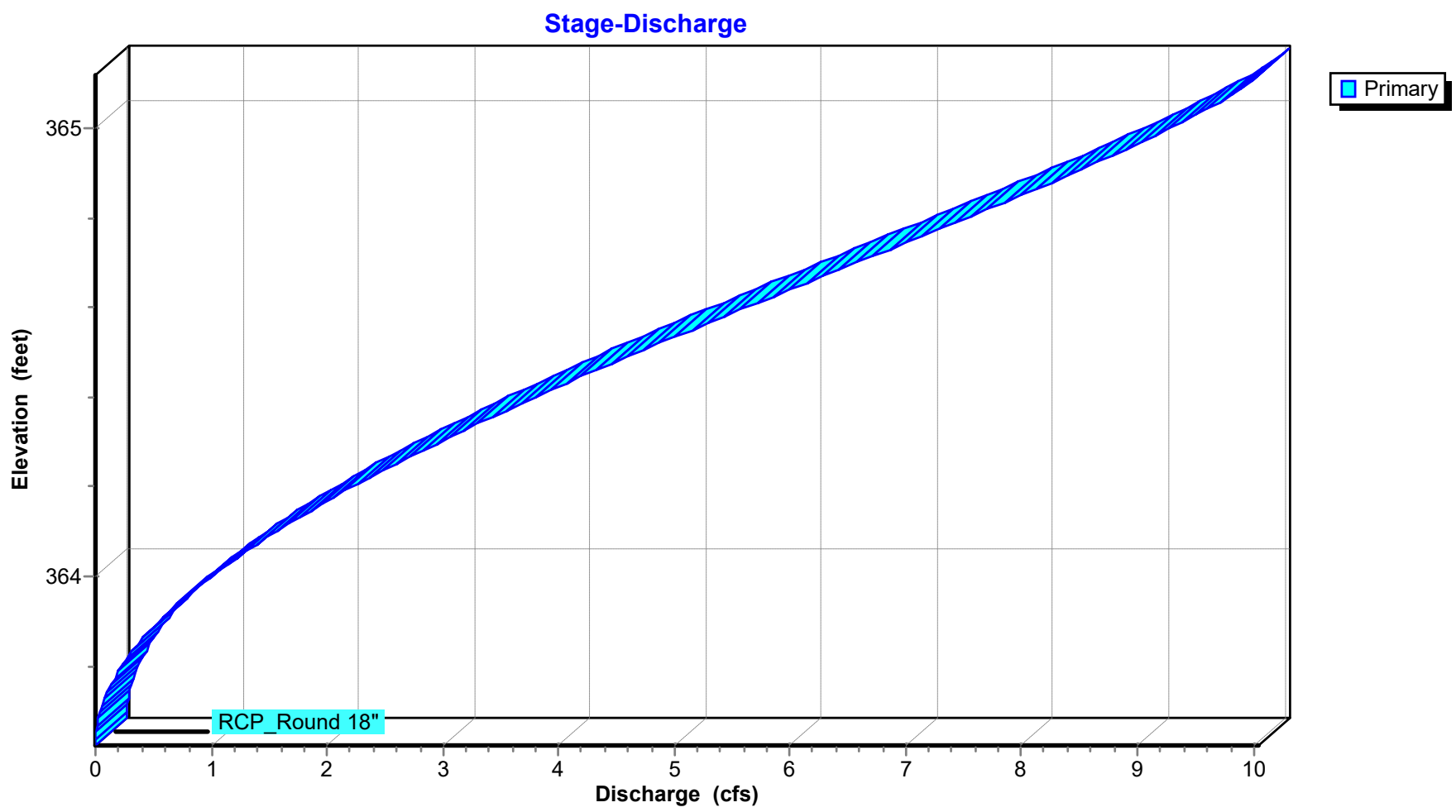
Device	Routing	Invert	Outlet Devices
#1	Primary	363.62'	**18.0" Round RCP_Round 18"** L= 150.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 363.62' / 356.12' S= 0.0500 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=9.03 cfs @ 0.16 hrs HW=364.97' (Free Discharge)
└**1=RCP_Round 18"** (Inlet Controls 9.03 cfs @ 5.39 fps)

Pond CI-A4: CURB INLET A4



Pond CI-A4: CURB INLET A4



Stage-Area-Storage for Pond CI-A4: CURB INLET A4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
363.62	**0.000**	364.54	0.000
363.63	0.000	364.55	0.000
363.64	0.000	364.56	0.000
363.65	0.000	364.57	0.000
363.66	0.000	364.58	0.000
363.67	0.000	364.59	0.000
363.68	0.000	364.60	0.000
363.69	0.000	364.61	0.000
363.70	0.000	364.62	0.000
363.71	0.000	364.63	0.000
363.72	0.000	364.64	0.000
363.73	0.000	364.65	0.000
363.74	0.000	364.66	0.000
363.75	0.000	364.67	0.000
363.76	0.000	364.68	0.000
363.77	0.000	364.69	0.000
363.78	0.000	364.70	0.000
363.79	0.000	364.71	0.000
363.80	0.000	364.72	0.000
363.81	0.000	364.73	0.000
363.82	0.000	364.74	0.000
363.83	0.000	364.75	0.000
363.84	0.000	364.76	0.000
363.85	0.000	364.77	0.000
363.86	0.000	364.78	0.000
363.87	0.000	364.79	0.000
363.88	0.000	364.80	0.000
363.89	0.000	364.81	0.000
363.90	0.000	364.82	0.000
363.91	0.000	364.83	0.000
363.92	0.000	364.84	0.000
363.93	0.000	364.85	0.000
363.94	0.000	364.86	0.000
363.95	0.000	364.87	0.000
363.96	0.000	364.88	0.000
363.97	0.000	364.89	0.000
363.98	0.000	364.90	0.000
363.99	0.000	364.91	0.000
364.00	0.000	364.92	0.000
364.01	0.000	364.93	0.000
364.02	0.000	364.94	0.000
364.03	0.000	364.95	0.000
364.04	0.000	364.96	0.000
364.05	0.000	364.97	0.000
364.06	0.000	364.98	0.000
364.07	0.000	364.99	0.000
364.08	0.000	365.00	0.000
364.09	0.000	365.01	0.000
364.10	0.000	365.02	0.000
364.11	0.000	365.03	0.000
364.12	0.000	365.04	0.000
364.13	0.000	365.05	0.000
364.14	0.000	365.06	0.000
364.15	0.000	365.07	0.000
364.16	0.000	365.08	0.000
364.17	0.000	365.09	0.000
364.18	0.000	365.10	0.000
364.19	0.000	365.11	0.000
364.20	0.000	365.12	0.000
364.21	0.000		
364.22	0.000		
364.23	0.000		
364.24	0.000		
364.25	0.000		
364.26	0.000		
364.27	0.000		
364.28	0.000		
364.29	0.000		
364.30	0.000		
364.31	0.000		
364.32	0.000		
364.33	0.000		
364.34	0.000		
364.35	0.000		
364.36	0.000		
364.37	0.000		
364.38	0.000		
364.39	0.000		
364.40	0.000		
364.41	0.000		
364.42	0.000		
364.43	0.000		
364.44	0.000		
364.45	0.000		
364.46	0.000		
364.47	0.000		
364.48	0.000		
364.49	0.000		
364.50	0.000		
364.51	0.000		
364.52	0.000		
364.53	0.000		

Summary for Pond CI-A5: CURB INLET A5

Inflow Area = 2.439 ac, 0.00% Impervious, Inflow Depth = 1.45" for 100-yr event
Inflow = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af
Outflow = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af, Atten= 0%, Lag= 0.0 min
Primary = 9.72 cfs @ 0.16 hrs, Volume= 0.294 af
Routed to Link POST-DEV : Post-Development

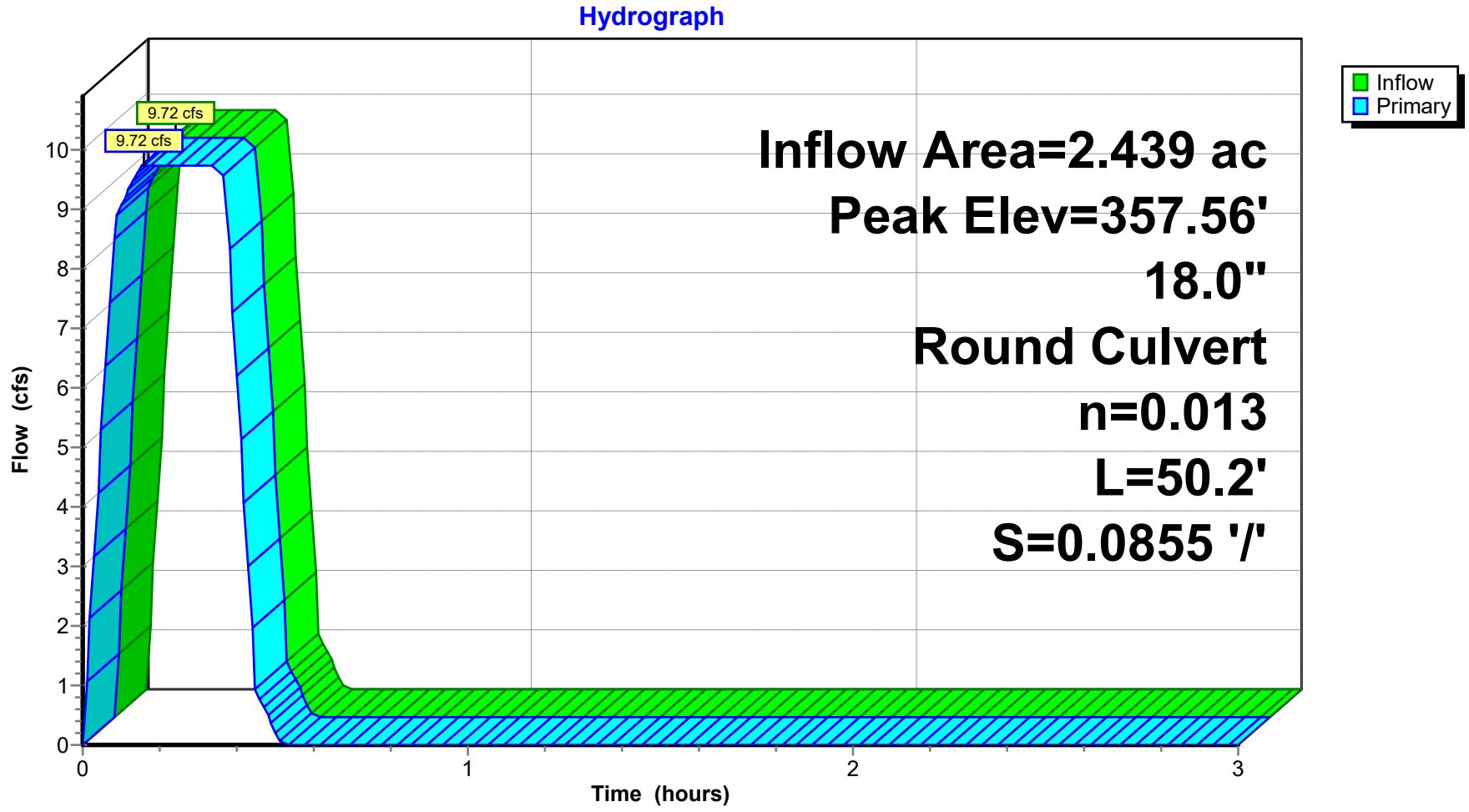
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 357.56' @ 0.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	356.12'	**18.0" Round RCP_Round 18** L= 50.2' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 356.12' / 351.83' S= 0.0855 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections, Flow Area= 1.77 sf

Primary OutFlow Max=9.72 cfs @ 0.16 hrs HW=357.56' (Free Discharge)
└─**1=RCP_Round 18** (Inlet Controls 9.72 cfs @ 5.57 fps)

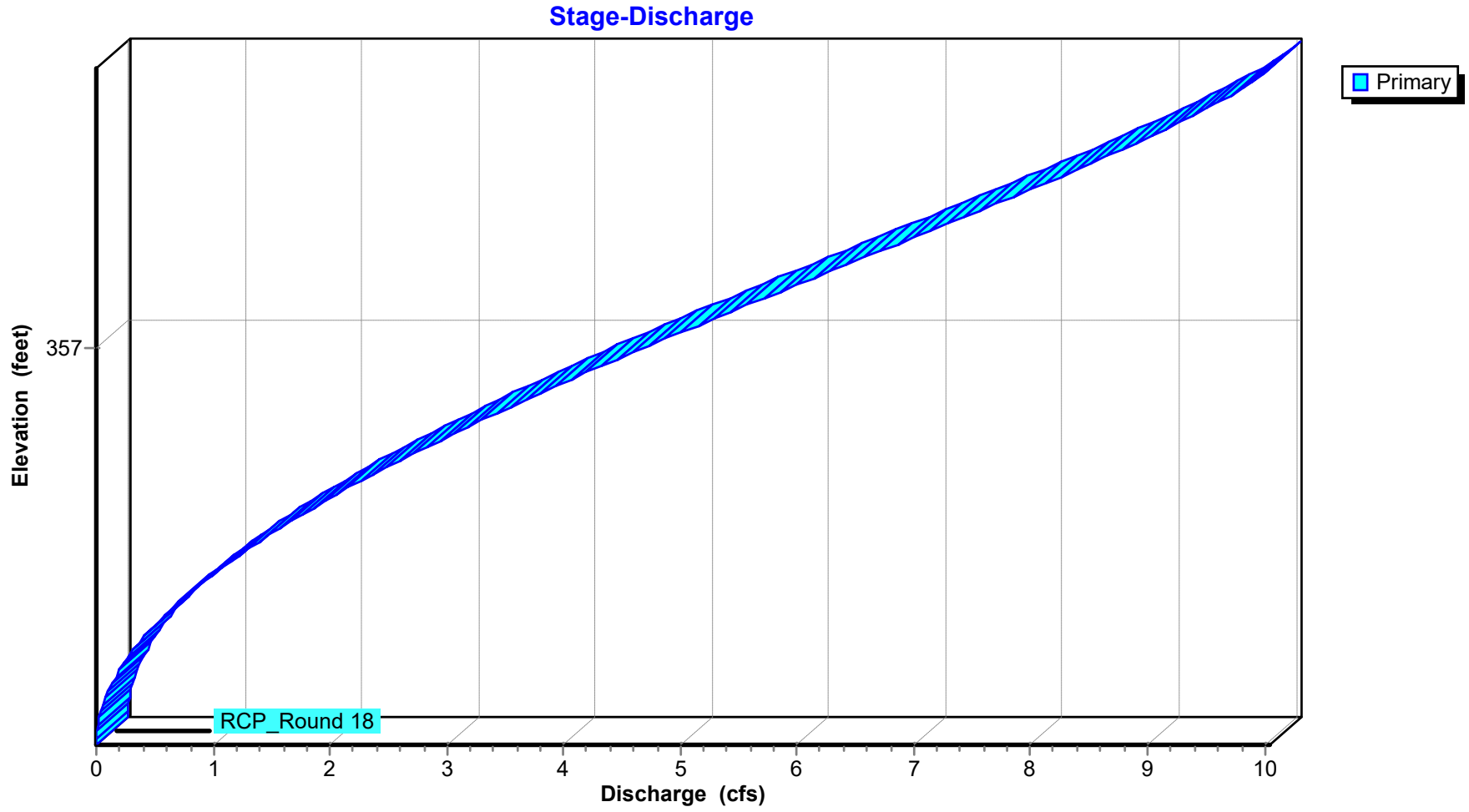
Pond CI-A5: CURB INLET A5

Hydrograph



Pond CI-A5: CURB INLET A5

Stage-Discharge



Stage-Area-Storage for Pond CI-A5: CURB INLET A5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
356.12	**0.000**	357.04	0.000
356.13	0.000	357.05	0.000
356.14	0.000	357.06	0.000
356.15	0.000	357.07	0.000
356.16	0.000	357.08	0.000
356.17	0.000	357.09	0.000
356.18	0.000	357.10	0.000
356.19	0.000	357.11	0.000
356.20	0.000	357.12	0.000
356.21	0.000	357.13	0.000
356.22	0.000	357.14	0.000
356.23	0.000	357.15	0.000
356.24	0.000	357.16	0.000
356.25	0.000	357.17	0.000
356.26	0.000	357.18	0.000
356.27	0.000	357.19	0.000
356.28	0.000	357.20	0.000
356.29	0.000	357.21	0.000
356.30	0.000	357.22	0.000
356.31	0.000	357.23	0.000
356.32	0.000	357.24	0.000
356.33	0.000	357.25	0.000
356.34	0.000	357.26	0.000
356.35	0.000	357.27	0.000
356.36	0.000	357.28	0.000
356.37	0.000	357.29	0.000
356.38	0.000	357.30	0.000
356.39	0.000	357.31	0.000
356.40	0.000	357.32	0.000
356.41	0.000	357.33	0.000
356.42	0.000	357.34	0.000
356.43	0.000	357.35	0.000
356.44	0.000	357.36	0.000
356.45	0.000	357.37	0.000
356.46	0.000	357.38	0.000
356.47	0.000	357.39	0.000
356.48	0.000	357.40	0.000
356.49	0.000	357.41	0.000
356.50	0.000	357.42	0.000
356.51	0.000	357.43	0.000
356.52	0.000	357.44	0.000
356.53	0.000	357.45	0.000
356.54	0.000	357.46	0.000
356.55	0.000	357.47	0.000
356.56	0.000	357.48	0.000
356.57	0.000	357.49	0.000
356.58	0.000	357.50	0.000
356.59	0.000	357.51	0.000
356.60	0.000	357.52	0.000
356.61	0.000	357.53	0.000
356.62	0.000	357.54	0.000
356.63	0.000	357.55	0.000
356.64	0.000	357.56	0.000
356.65	0.000	357.57	0.000
356.66	0.000	357.58	0.000
356.67	0.000	357.59	0.000
356.68	0.000	357.60	0.000
356.69	0.000	357.61	0.000
356.70	0.000	357.62	0.000
356.71	0.000		
356.72	0.000		
356.73	0.000		
356.74	0.000		
356.75	0.000		
356.76	0.000		
356.77	0.000		
356.78	0.000		
356.79	0.000		
356.80	0.000		
356.81	0.000		
356.82	0.000		
356.83	0.000		
356.84	0.000		
356.85	0.000		
356.86	0.000		
356.87	0.000		
356.88	0.000		
356.89	0.000		
356.90	0.000		
356.91	0.000		
356.92	0.000		
356.93	0.000		
356.94	0.000		
356.95	0.000		
356.96	0.000		
356.97	0.000		
356.98	0.000		
356.99	0.000		
357.00	0.000		
357.01	0.000		
357.02	0.000		
357.03	0.000		

Summary for Pond CI-C1: CURB INLET C1

Inflow Area = 0.210 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af
Outflow = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.73 cfs @ 0.09 hrs, Volume= 0.022 af
Routed to Pond CI-C2 : CURB INLET C2

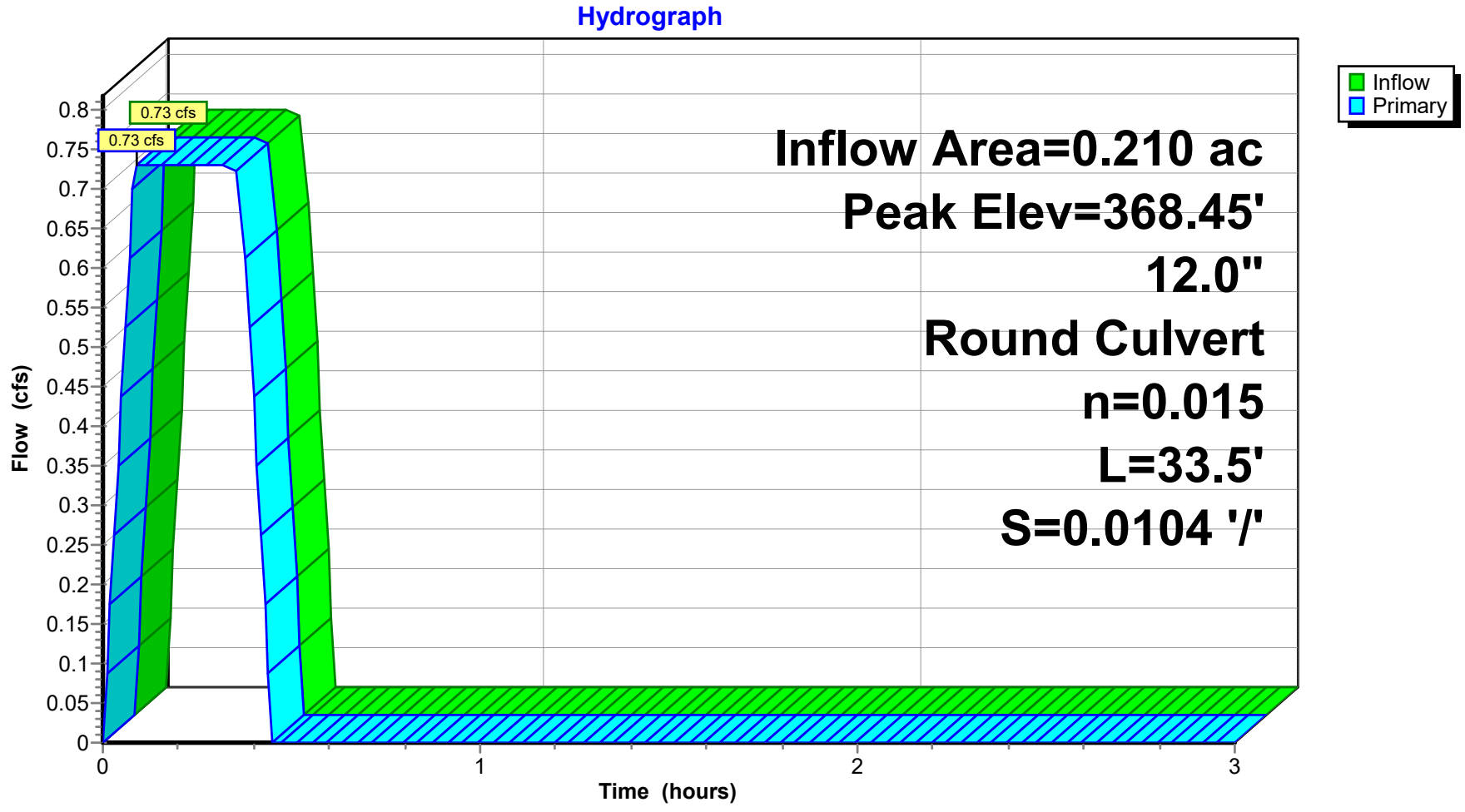
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 368.45' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	368.00'	**12.0" Round RCP_ROUND 12"** L= 33.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 368.00' / 367.65' S= 0.0104 '/' Cc= 0.900 n= 0.015 Concrete sewer w/manholes & inlets, Flow Area= 0.79 sf

Primary OutFlow Max=0.73 cfs @ 0.09 hrs HW=368.45' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.73 cfs @ 3.09 fps)

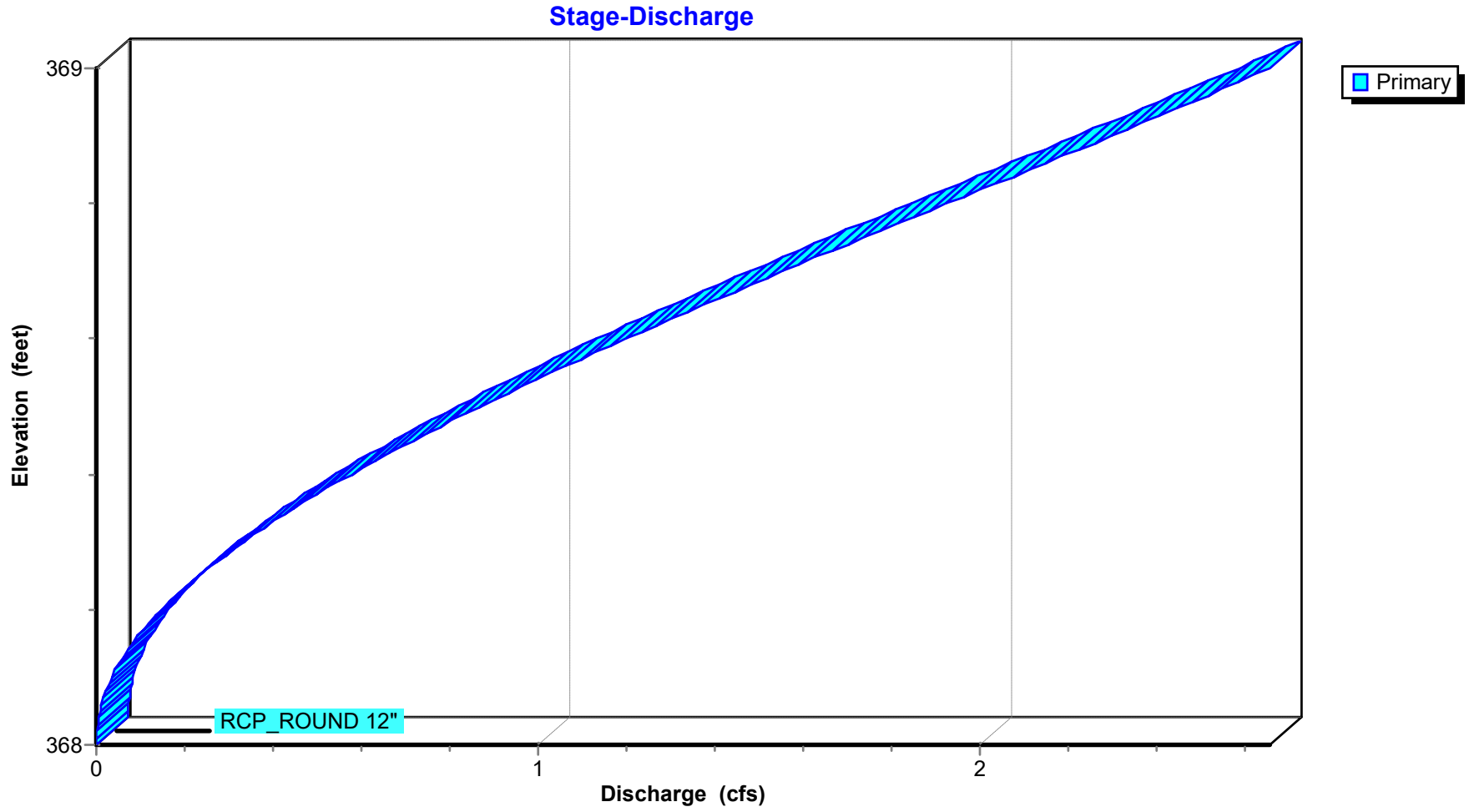
Pond CI-C1: CURB INLET C1

Hydrograph



Pond CI-C1: CURB INLET C1

Stage-Discharge



Stage-Area-Storage for Pond CI-C1: CURB INLET C1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
368.00	**0.000**	368.92	0.000
368.01	0.000	368.93	0.000
368.02	0.000	368.94	0.000
368.03	0.000	368.95	0.000
368.04	0.000	368.96	0.000
368.05	0.000	368.97	0.000
368.06	0.000	368.98	0.000
368.07	0.000	368.99	0.000
368.08	0.000	369.00	0.000
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		
368.47	0.000		
368.48	0.000		
368.49	0.000		
368.50	0.000		
368.51	0.000		
368.52	0.000		
368.53	0.000		
368.54	0.000		
368.55	0.000		
368.56	0.000		
368.57	0.000		
368.58	0.000		
368.59	0.000		
368.60	0.000		
368.61	0.000		
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368.66	0.000		
368.67	0.000		
368.68	0.000		
368.69	0.000		
368.70	0.000		
368.71	0.000		
368.72	0.000		
368.73	0.000		
368.74	0.000		
368.75	0.000		
368.76	0.000		
368.77	0.000		
368.78	0.000		
368.79	0.000		
368.80	0.000		
368.81	0.000		
368.82	0.000		
368.83	0.000		
368.84	0.000		
368.85	0.000		
368.86	0.000		
368.87	0.000		
368.88	0.000		
368.89	0.000		
368.90	0.000		
368.91	0.000		

Summary for Pond CI-C2: CURB INLET C2

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.86 cfs @ 0.09 hrs, Volume= 0.026 af
Outflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af, Atten= 0%, Lag= 3.6 min
Primary = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Routed to Pond JB-C3 : JUNCTION BOX C3

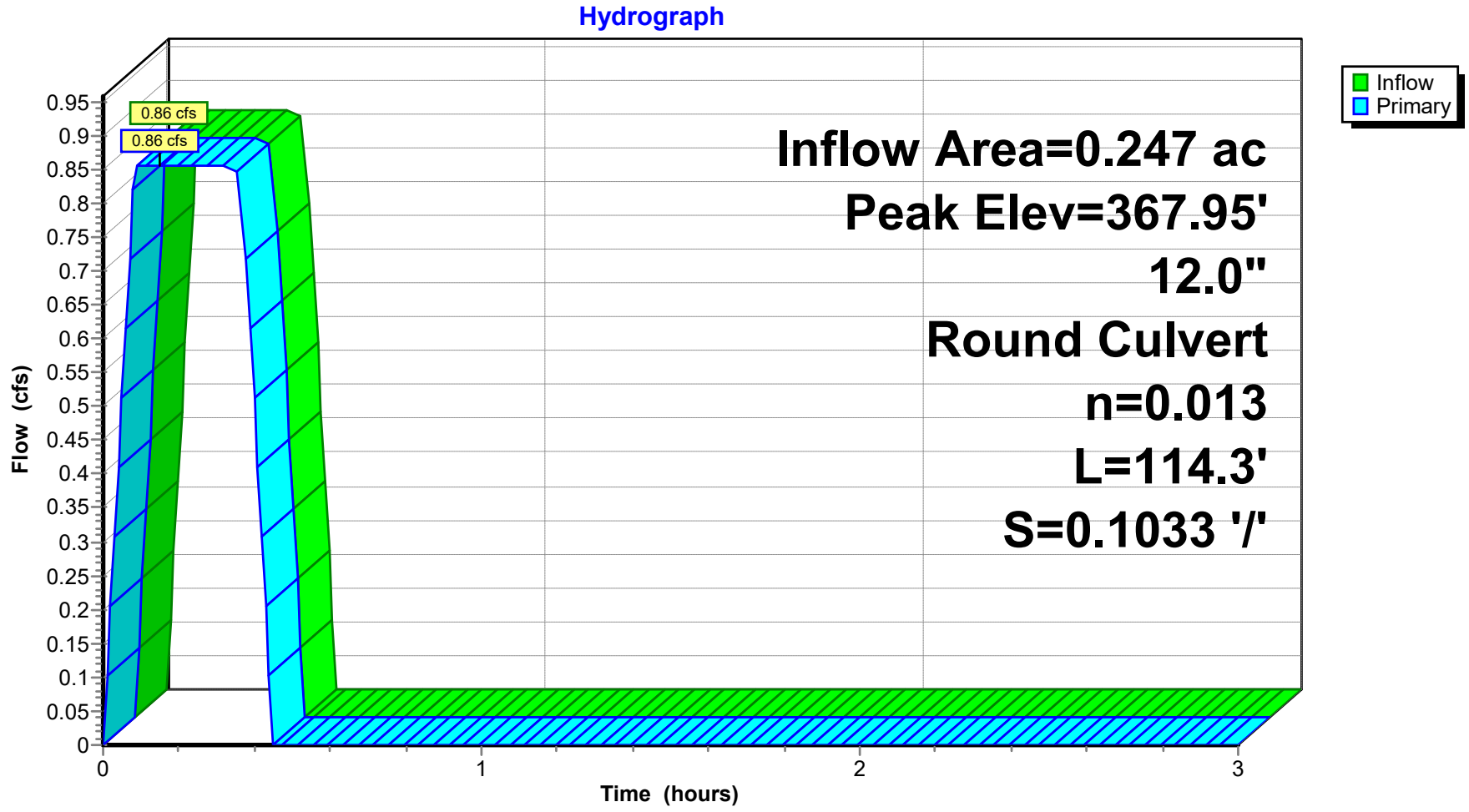
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 367.95' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	367.55'	**12.0" Round RCP_ROUND 12"** L= 114.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 367.55' / 355.74' S= 0.1033 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 0.15 hrs HW=367.95' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 0.86 cfs @ 2.93 fps)

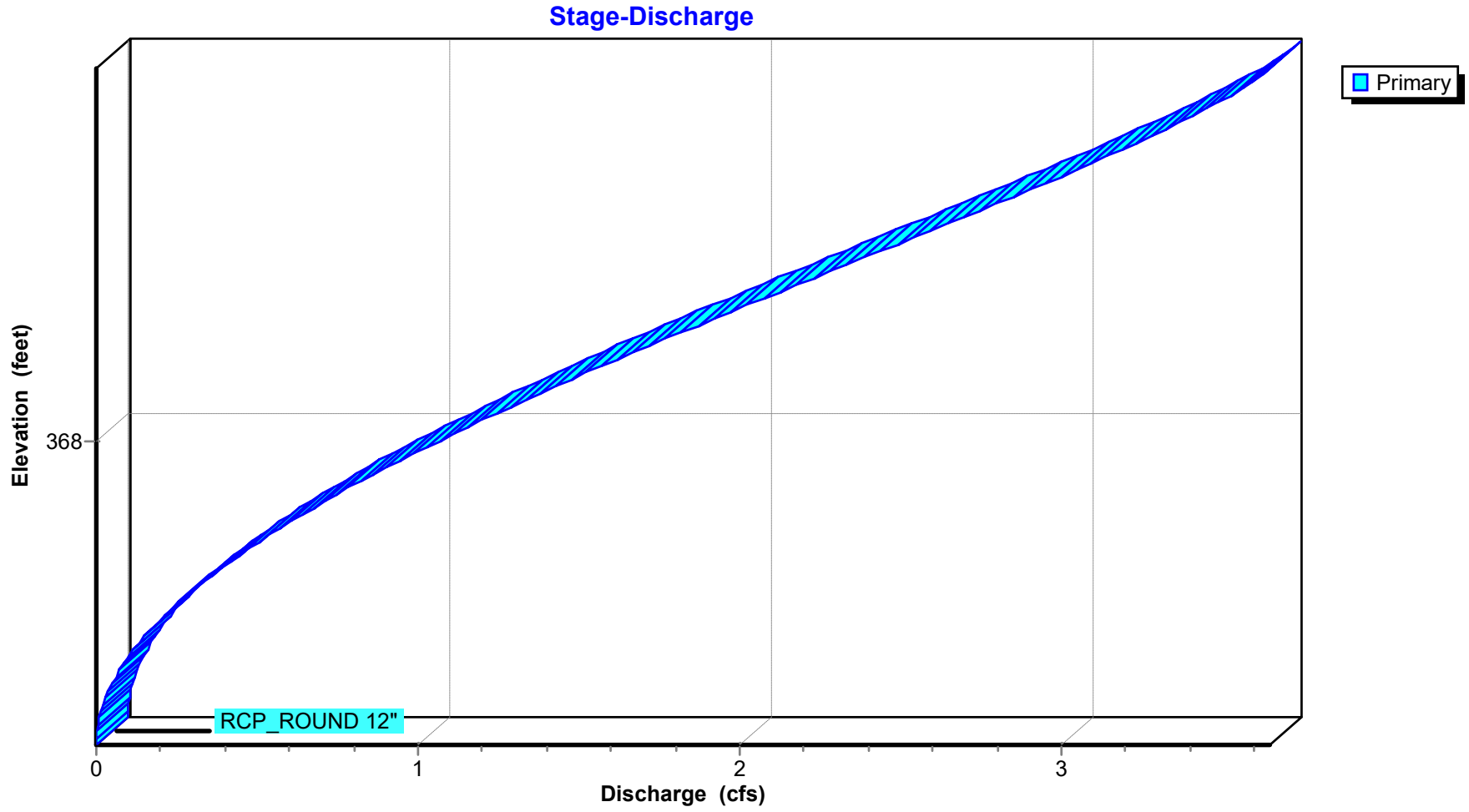
Pond CI-C2: CURB INLET C2

Hydrograph



Pond CI-C2: CURB INLET C2

Stage-Discharge



Stage-Area-Storage for Pond CI-C2: CURB INLET C2

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
367.55	**0.000**	368.47	0.000
367.56	0.000	368.48	0.000
367.57	0.000	368.49	0.000
367.58	0.000	368.50	0.000
367.59	0.000	368.51	0.000
367.60	0.000	368.52	0.000
367.61	0.000	368.53	0.000
367.62	0.000	368.54	0.000
367.63	0.000	368.55	0.000
367.64	0.000		
367.65	0.000		
367.66	0.000		
367.67	0.000		
367.68	0.000		
367.69	0.000		
367.70	0.000		
367.71	0.000		
367.72	0.000		
367.73	0.000		
367.74	0.000		
367.75	0.000		
367.76	0.000		
367.77	0.000		
367.78	0.000		
367.79	0.000		
367.80	0.000		
367.81	0.000		
367.82	0.000		
367.83	0.000		
367.84	0.000		
367.85	0.000		
367.86	0.000		
367.87	0.000		
367.88	0.000		
367.89	0.000		
367.90	0.000		
367.91	0.000		
367.92	0.000		
367.93	0.000		
367.94	0.000		
367.95	0.000		
367.96	0.000		
367.97	0.000		
367.98	0.000		
367.99	0.000		
368.00	0.000		
368.01	0.000		
368.02	0.000		
368.03	0.000		
368.04	0.000		
368.05	0.000		
368.06	0.000		
368.07	0.000		
368.08	0.000		
368.09	0.000		
368.10	0.000		
368.11	0.000		
368.12	0.000		
368.13	0.000		
368.14	0.000		
368.15	0.000		
368.16	0.000		
368.17	0.000		
368.18	0.000		
368.19	0.000		
368.20	0.000		
368.21	0.000		
368.22	0.000		
368.23	0.000		
368.24	0.000		
368.25	0.000		
368.26	0.000		
368.27	0.000		
368.28	0.000		
368.29	0.000		
368.30	0.000		
368.31	0.000		
368.32	0.000		
368.33	0.000		
368.34	0.000		
368.35	0.000		
368.36	0.000		
368.37	0.000		
368.38	0.000		
368.39	0.000		
368.40	0.000		
368.41	0.000		
368.42	0.000		
368.43	0.000		
368.44	0.000		
368.45	0.000		
368.46	0.000		

Summary for Pond CI-C4: CURB INLET C4

Inflow Area = 0.965 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af
Outflow = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min
Primary = 3.35 cfs @ 0.15 hrs, Volume= 0.102 af
Routed to Pond CI-C5 : CURB INLET C5

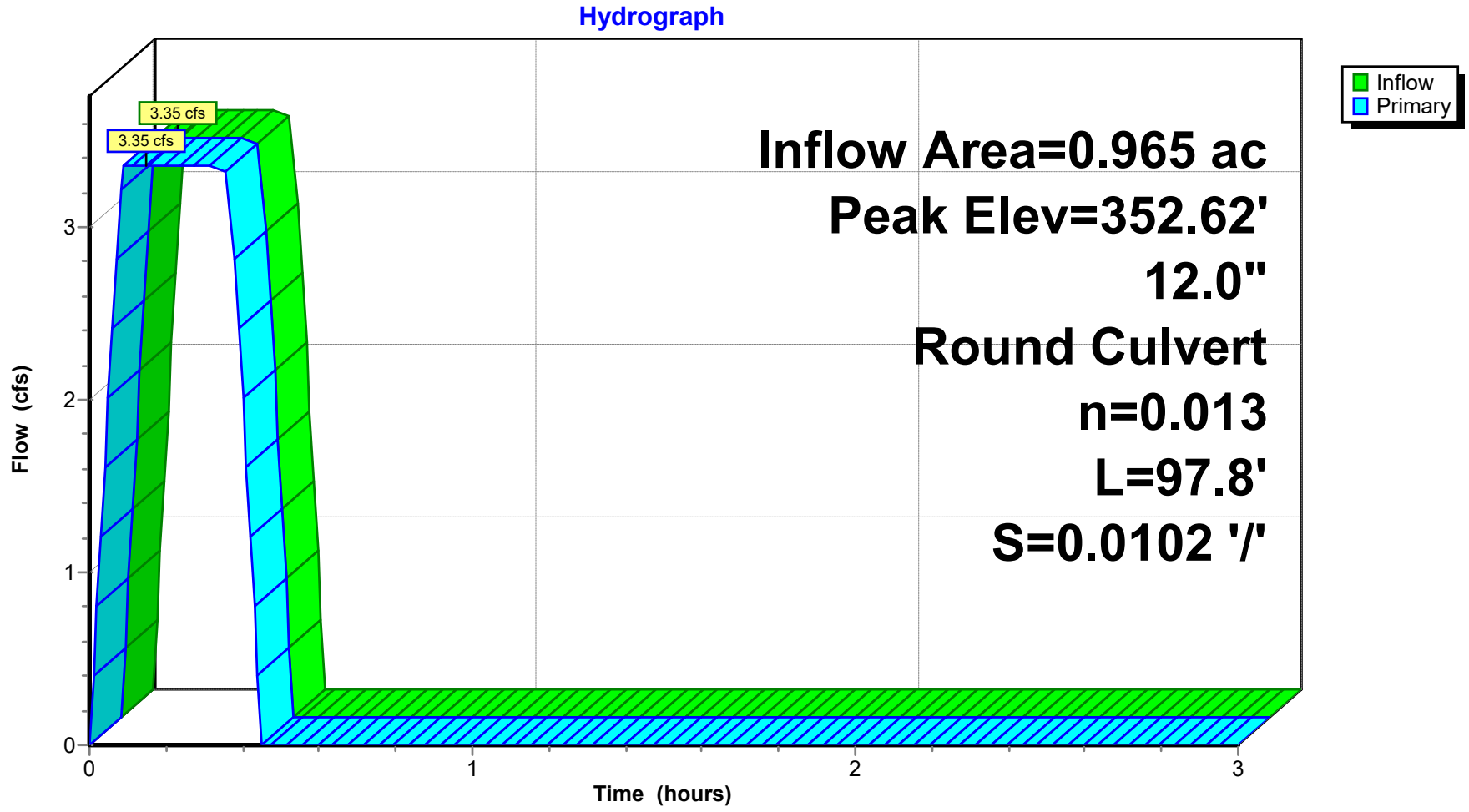
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.53'	**12.0" Round RCP_ROUND 12"** L= 97.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 350.53' S= 0.0102 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=3.35 cfs @ 0.15 hrs HW=352.62' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 3.35 cfs @ 4.87 fps)

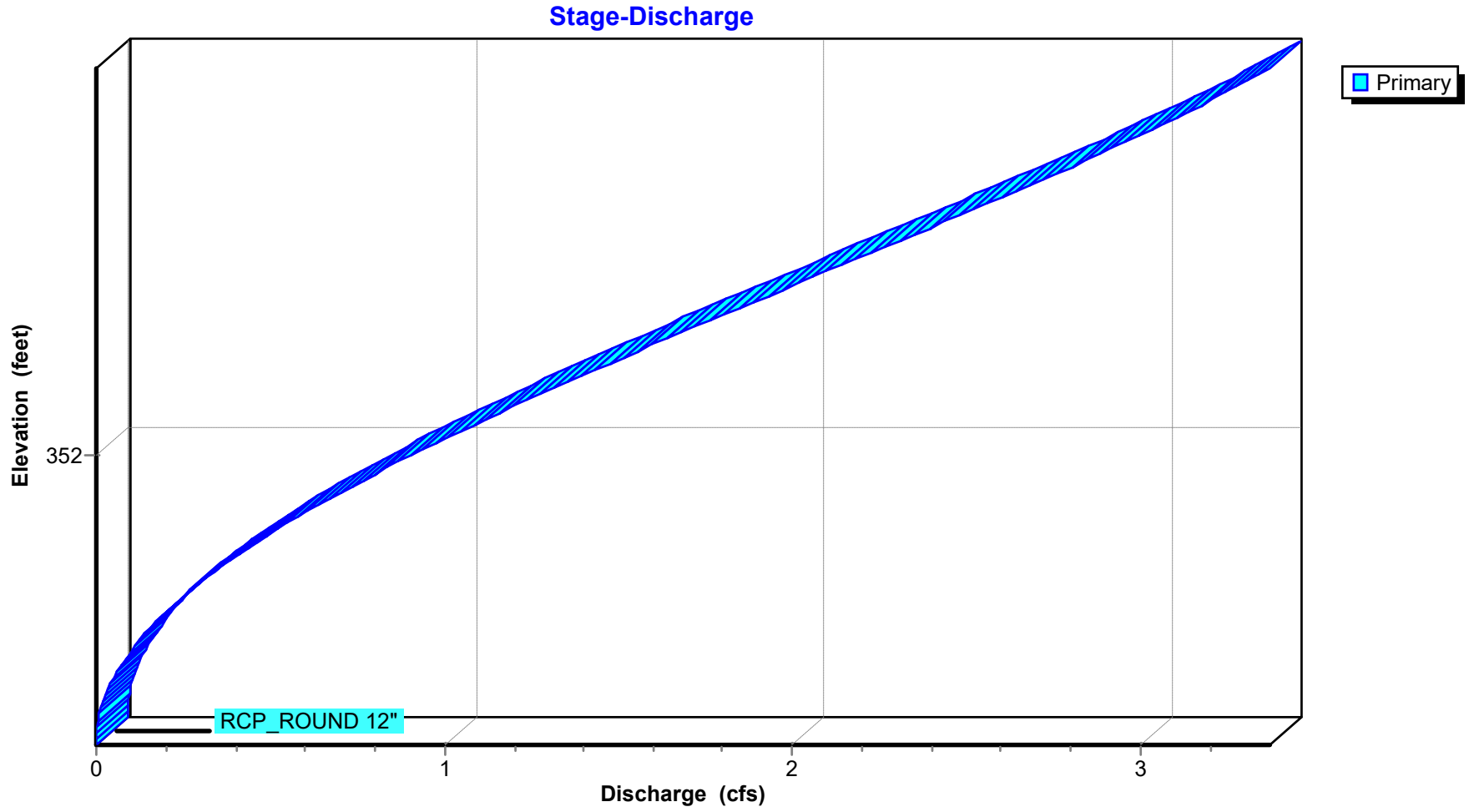
Pond CI-C4: CURB INLET C4

Hydrograph



Pond CI-C4: CURB INLET C4

Stage-Discharge



Stage-Area-Storage for Pond CI-C4: CURB INLET C4

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.53	**0.000**	352.45	0.000
351.54	0.000	352.46	0.000
351.55	0.000	352.47	0.000
351.56	0.000	352.48	0.000
351.57	0.000	352.49	0.000
351.58	0.000	352.50	0.000
351.59	0.000	352.51	0.000
351.60	0.000	352.52	0.000
351.61	0.000	352.53	0.000
351.62	0.000	352.54	0.000
351.63	0.000	352.55	0.000
351.64	0.000	352.56	0.000
351.65	0.000	352.57	0.000
351.66	0.000	352.58	0.000
351.67	0.000	352.59	0.000
351.68	0.000	352.60	0.000
351.69	0.000	352.61	0.000
351.70	0.000	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000		
351.73	0.000		
351.74	0.000		
351.75	0.000		
351.76	0.000		
351.77	0.000		
351.78	0.000		
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		

Summary for Pond CI-C5: CURB INLET C5

Inflow Area = 1.429 ac, 0.00% Impervious, Inflow Depth = 1.23" for 100-yr event
Inflow = 4.84 cfs @ 0.15 hrs, Volume= 0.146 af
Outflow = 4.84 cfs @ 0.10 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min
Primary = 4.84 cfs @ 0.10 hrs, Volume= 0.146 af
Routed to Link POST-DEV : Post-Development

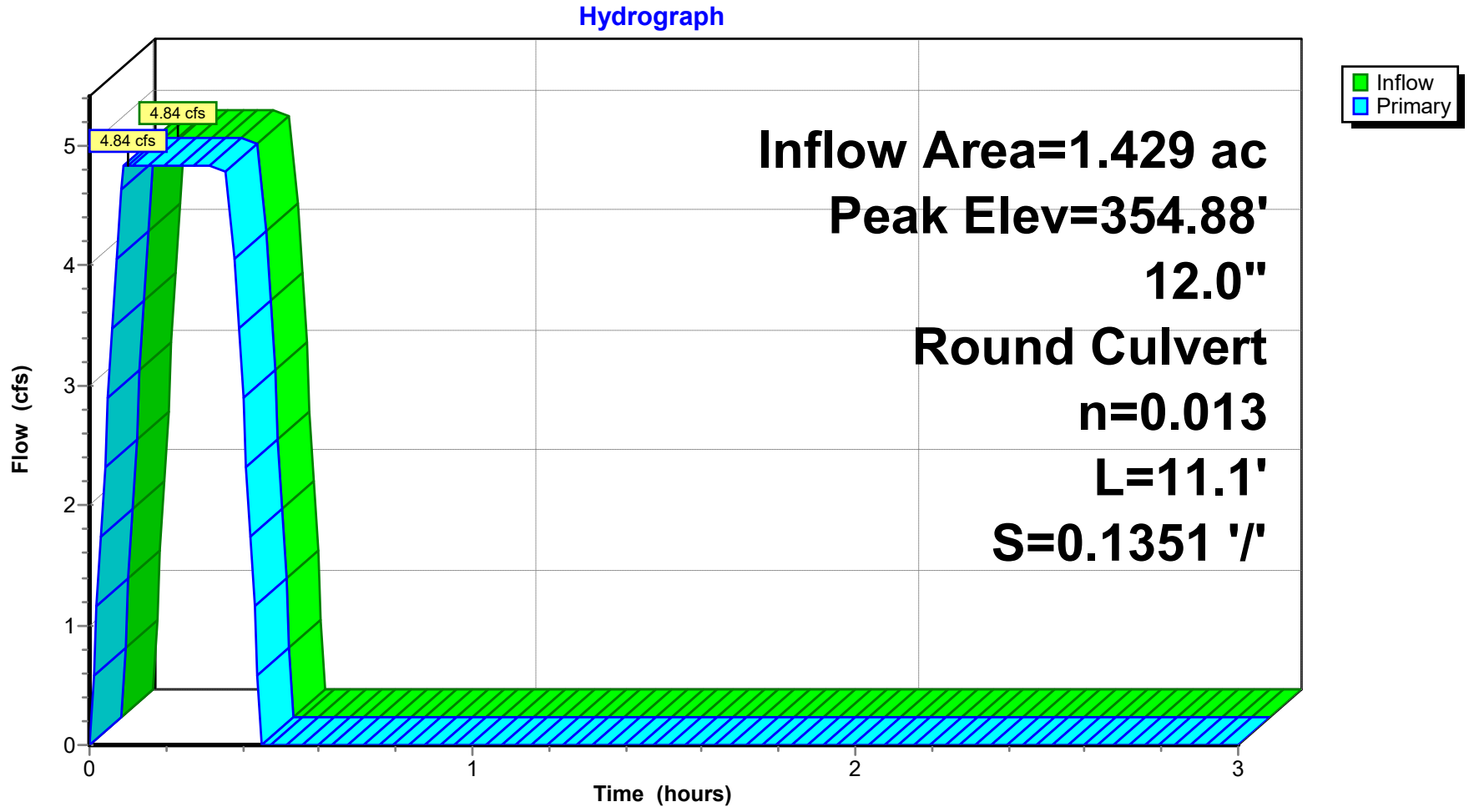
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 354.88' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	353.50'	**12.0" Round RCP_ROUND 12"** L= 11.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 353.50' / 352.00' S= 0.1351 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=4.84 cfs @ 0.10 hrs HW=354.88' (Free Discharge)
└**1=RCP_ROUND 12"** (Inlet Controls 4.84 cfs @ 6.16 fps)

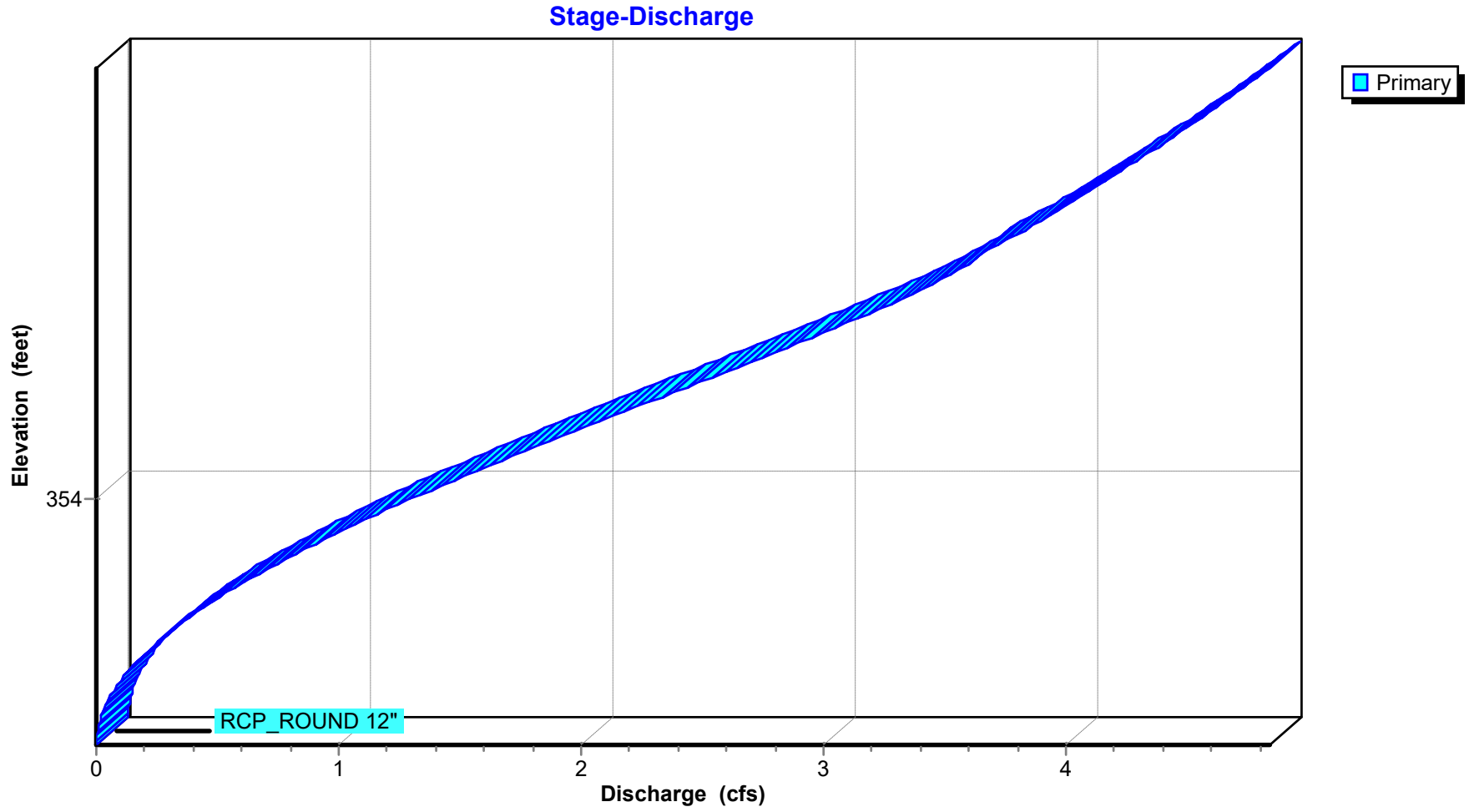
Pond CI-C5: CURB INLET C5

Hydrograph



Pond CI-C5: CURB INLET C5

Stage-Discharge



Stage-Area-Storage for Pond CI-C5: CURB INLET C5

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
353.50	**0.000**	354.42	0.000
353.51	0.000	354.43	0.000
353.52	0.000	354.44	0.000
353.53	0.000	354.45	0.000
353.54	0.000	354.46	0.000
353.55	0.000	354.47	0.000
353.56	0.000	354.48	0.000
353.57	0.000	354.49	0.000
353.58	0.000	354.50	0.000
353.59	0.000	354.51	0.000
353.60	0.000	354.52	0.000
353.61	0.000	354.53	0.000
353.62	0.000	354.54	0.000
353.63	0.000	354.55	0.000
353.64	0.000	354.56	0.000
353.65	0.000	354.57	0.000
353.66	0.000	354.58	0.000
353.67	0.000	354.59	0.000
353.68	0.000	354.60	0.000
353.69	0.000	354.61	0.000
353.70	0.000	354.62	0.000
353.71	0.000	354.63	0.000
353.72	0.000	354.64	0.000
353.73	0.000	354.65	0.000
353.74	0.000	354.66	0.000
353.75	0.000	354.67	0.000
353.76	0.000	354.68	0.000
353.77	0.000	354.69	0.000
353.78	0.000	354.70	0.000
353.79	0.000	354.71	0.000
353.80	0.000	354.72	0.000
353.81	0.000	354.73	0.000
353.82	0.000	354.74	0.000
353.83	0.000	354.75	0.000
353.84	0.000	354.76	0.000
353.85	0.000	354.77	0.000
353.86	0.000	354.78	0.000
353.87	0.000	354.79	0.000
353.88	0.000	354.80	0.000
353.89	0.000	354.81	0.000
353.90	0.000	354.82	0.000
353.91	0.000	354.83	0.000
353.92	0.000	354.84	0.000
353.93	0.000	354.85	0.000
353.94	0.000	354.86	0.000
353.95	0.000	354.87	0.000
353.96	0.000	354.88	0.000
353.97	0.000		
353.98	0.000		
353.99	0.000		
354.00	0.000		
354.01	0.000		
354.02	0.000		
354.03	0.000		
354.04	0.000		
354.05	0.000		
354.06	0.000		
354.07	0.000		
354.08	0.000		
354.09	0.000		
354.10	0.000		
354.11	0.000		
354.12	0.000		
354.13	0.000		
354.14	0.000		
354.15	0.000		
354.16	0.000		
354.17	0.000		
354.18	0.000		
354.19	0.000		
354.20	0.000		
354.21	0.000		
354.22	0.000		
354.23	0.000		
354.24	0.000		
354.25	0.000		
354.26	0.000		
354.27	0.000		
354.28	0.000		
354.29	0.000		
354.30	0.000		
354.31	0.000		
354.32	0.000		
354.33	0.000		
354.34	0.000		
354.35	0.000		
354.36	0.000		
354.37	0.000		
354.38	0.000		
354.39	0.000		
354.40	0.000		
354.41	0.000		

Summary for Pond CI-D1: CURB INLET D1

Inflow Area = 0.627 ac, 0.00% Impervious, Inflow Depth = 1.22" for 100-yr event
Inflow = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af
Outflow = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 2.11 cfs @ 0.09 hrs, Volume= 0.064 af
Routed to Pond CI-C4 : CURB INLET C4

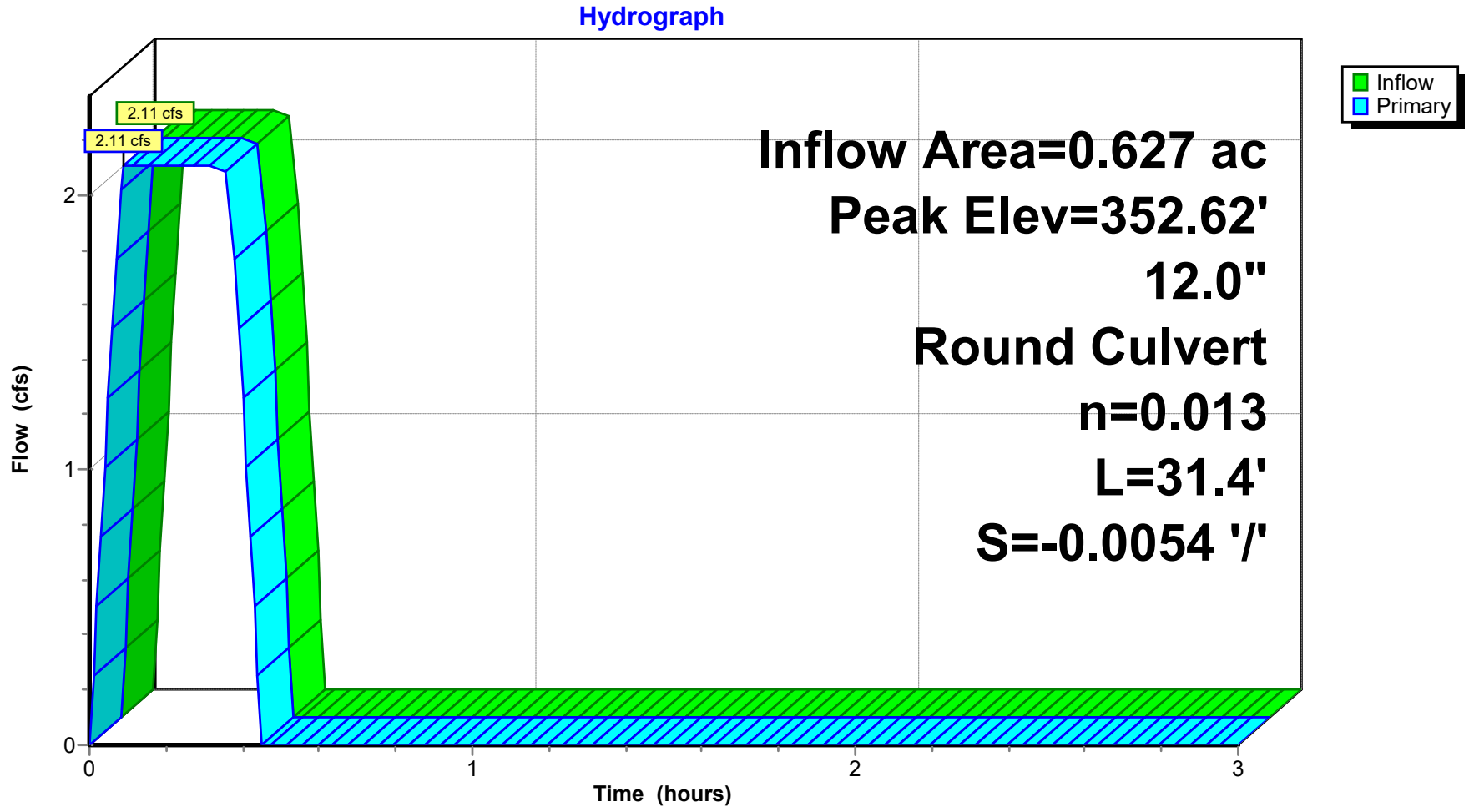
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 352.62' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	351.70'	**12.0" Round RCP_ROUND 12"** L= 31.4' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 351.53' / 351.70' S= -0.0054 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=2.11 cfs @ 0.09 hrs HW=352.62' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 2.11 cfs @ 3.07 fps)

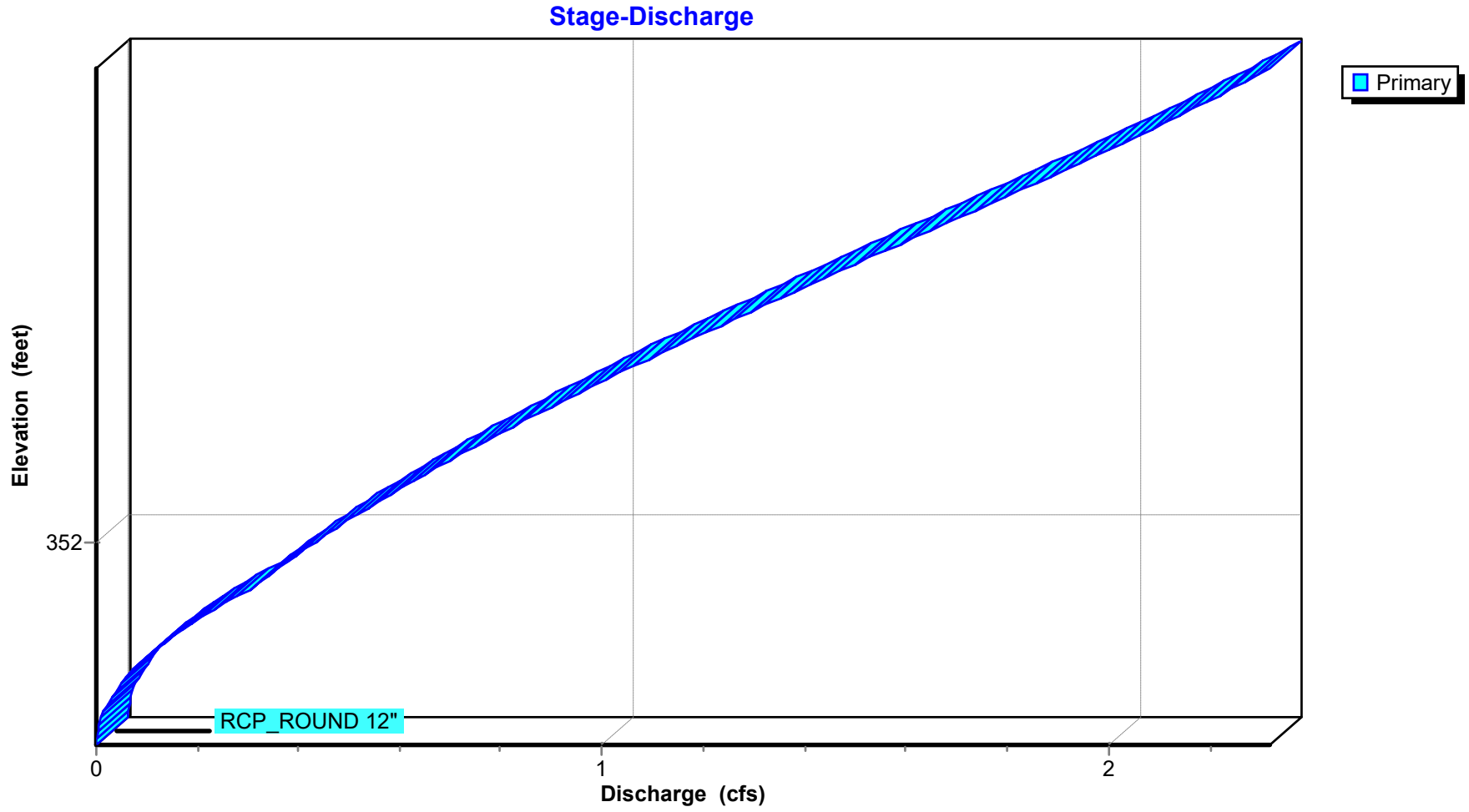
Pond CI-D1: CURB INLET D1

Hydrograph



Pond CI-D1: CURB INLET D1

Stage-Discharge



Stage-Area-Storage for Pond CI-D1: CURB INLET D1

Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
351.70	**0.000**	352.62	0.000
351.71	0.000	352.63	0.000
351.72	0.000	352.64	0.000
351.73	0.000	352.65	0.000
351.74	0.000	352.66	0.000
351.75	0.000	352.67	0.000
351.76	0.000	352.68	0.000
351.77	0.000	352.69	0.000
351.78	0.000	352.70	0.000
351.79	0.000		
351.80	0.000		
351.81	0.000		
351.82	0.000		
351.83	0.000		
351.84	0.000		
351.85	0.000		
351.86	0.000		
351.87	0.000		
351.88	0.000		
351.89	0.000		
351.90	0.000		
351.91	0.000		
351.92	0.000		
351.93	0.000		
351.94	0.000		
351.95	0.000		
351.96	0.000		
351.97	0.000		
351.98	0.000		
351.99	0.000		
352.00	0.000		
352.01	0.000		
352.02	0.000		
352.03	0.000		
352.04	0.000		
352.05	0.000		
352.06	0.000		
352.07	0.000		
352.08	0.000		
352.09	0.000		
352.10	0.000		
352.11	0.000		
352.12	0.000		
352.13	0.000		
352.14	0.000		
352.15	0.000		
352.16	0.000		
352.17	0.000		
352.18	0.000		
352.19	0.000		
352.20	0.000		
352.21	0.000		
352.22	0.000		
352.23	0.000		
352.24	0.000		
352.25	0.000		
352.26	0.000		
352.27	0.000		
352.28	0.000		
352.29	0.000		
352.30	0.000		
352.31	0.000		
352.32	0.000		
352.33	0.000		
352.34	0.000		
352.35	0.000		
352.36	0.000		
352.37	0.000		
352.38	0.000		
352.39	0.000		
352.40	0.000		
352.41	0.000		
352.42	0.000		
352.43	0.000		
352.44	0.000		
352.45	0.000		
352.46	0.000		
352.47	0.000		
352.48	0.000		
352.49	0.000		
352.50	0.000		
352.51	0.000		
352.52	0.000		
352.53	0.000		
352.54	0.000		
352.55	0.000		
352.56	0.000		
352.57	0.000		
352.58	0.000		
352.59	0.000		
352.60	0.000		
352.61	0.000		

Summary for Pond JB-C3: JUNCTION BOX C3

Inflow Area = 0.247 ac, 0.00% Impervious, Inflow Depth = 1.26" for 100-yr event
Inflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Outflow = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.86 cfs @ 0.15 hrs, Volume= 0.026 af
Routed to Pond CI-C4 : CURB INLET C4

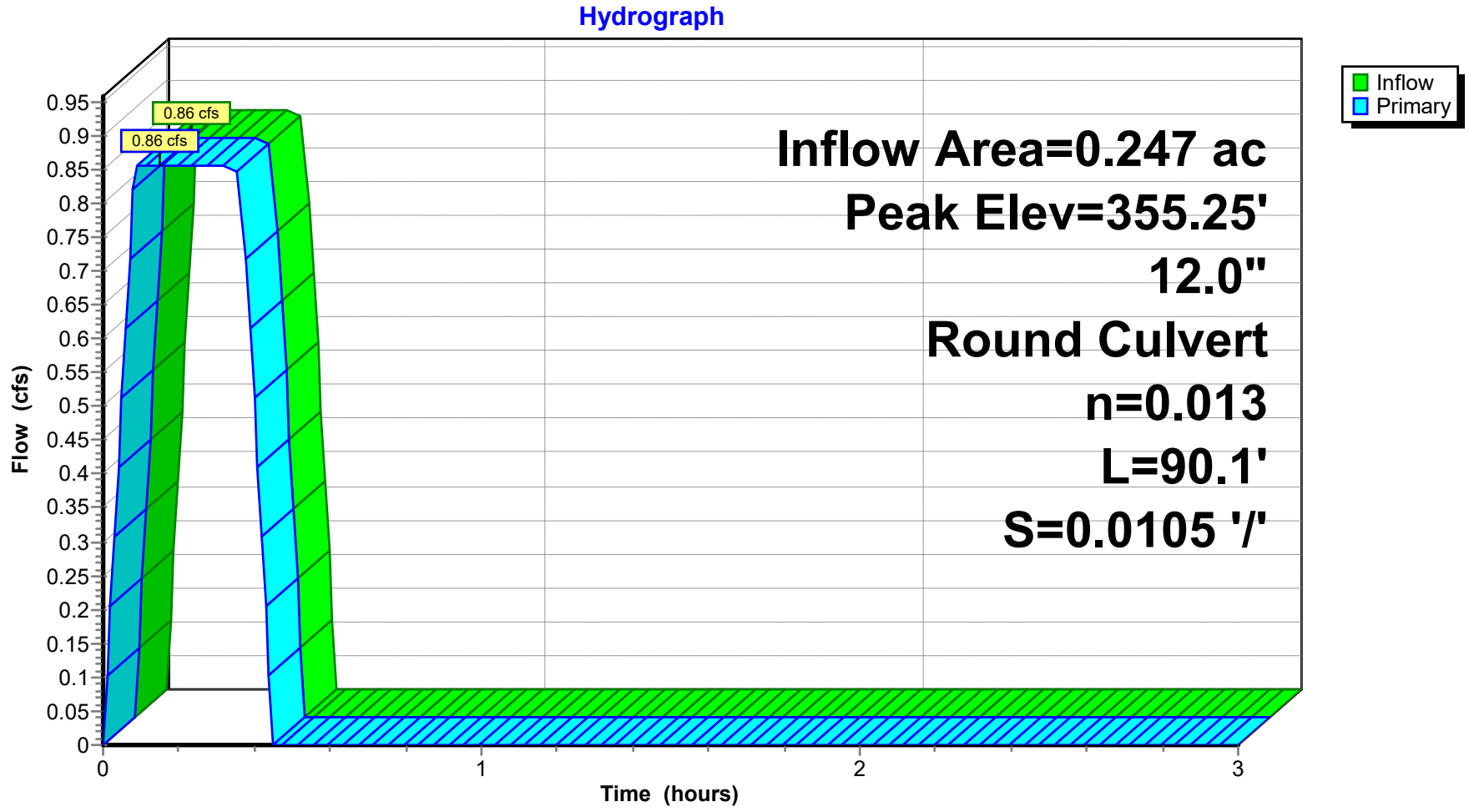
Routing by Stor-Ind method, Time Span= 0.00-3.00 hrs, dt= 0.01 hrs
Peak Elev= 355.25' @ 0.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	354.80'	**12.0" Round RCP_ROUND 12"** L= 90.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 354.80' / 353.85' S= 0.0105 '/' Cc= 0.900 n= 0.013, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 0.15 hrs HW=355.25' (Free Discharge)
└**1=RCP_ROUND 12"** (Barrel Controls 0.86 cfs @ 3.63 fps)

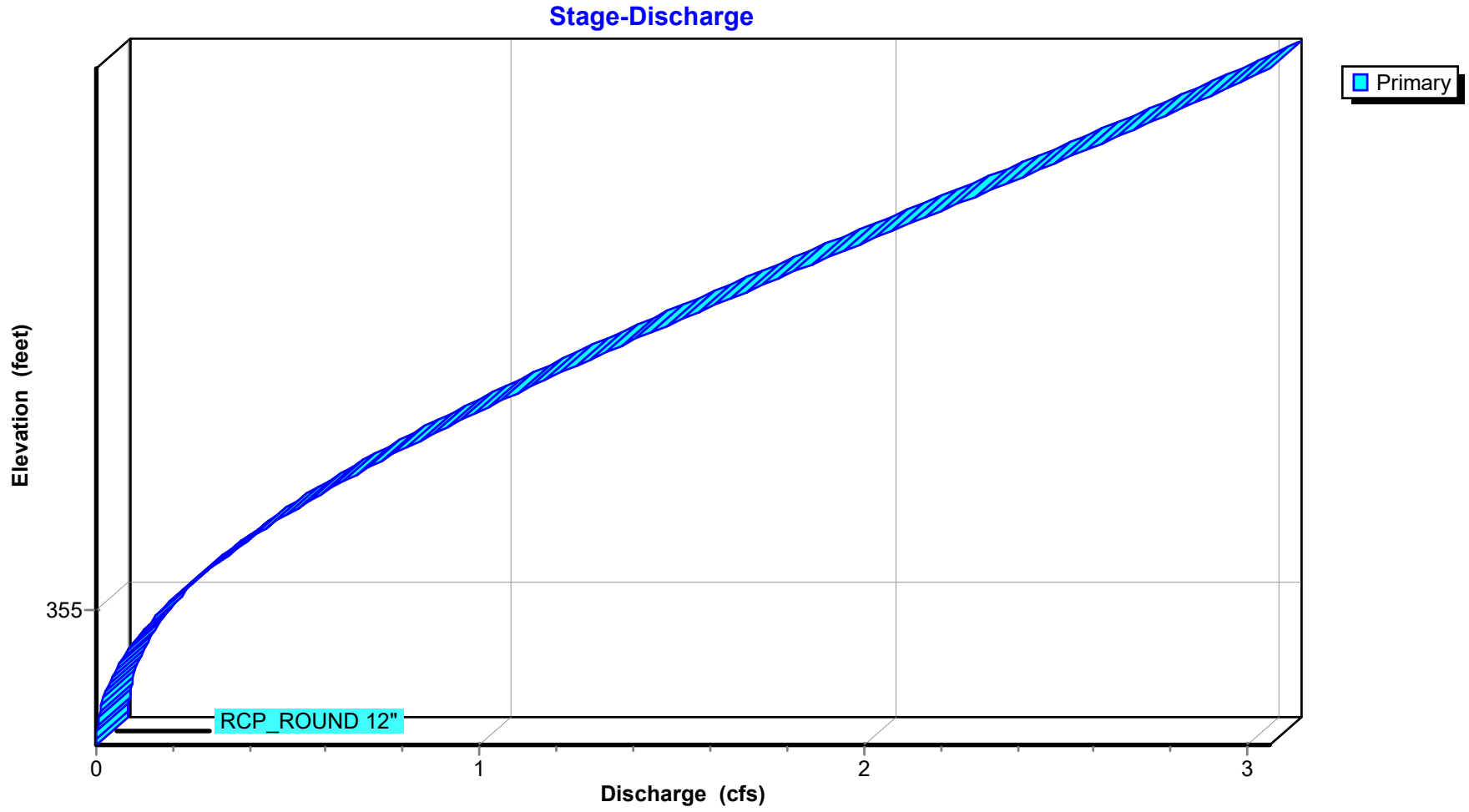
Pond JB-C3: JUNCTION BOX C3

Hydrograph



Pond JB-C3: JUNCTION BOX C3

Stage-Discharge



Stage-Area-Storage for Pond JB-C3: JUNCTION BOX C3

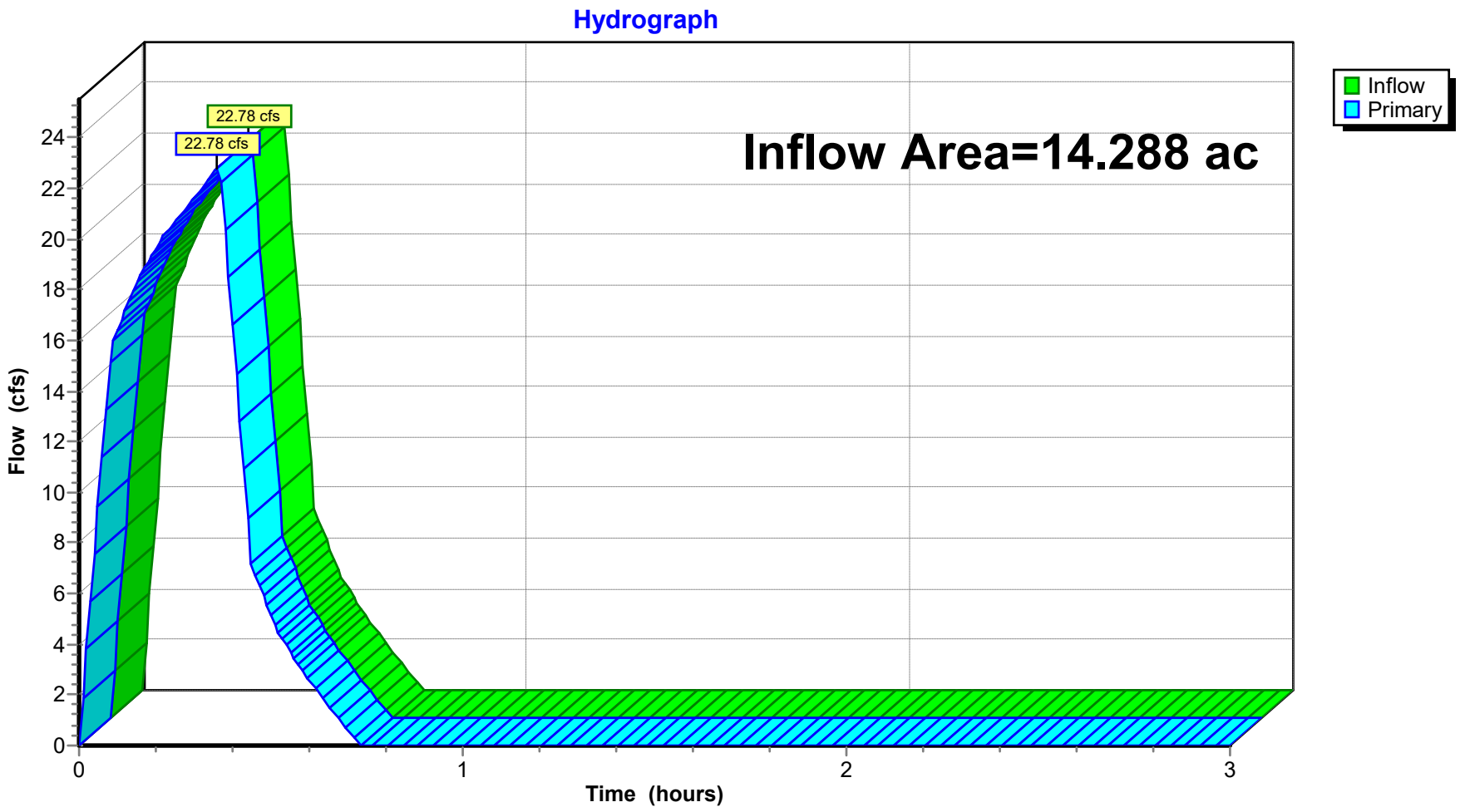
Elevation (feet)	Storage (acre-feet)	Elevation (feet)	Storage (acre-feet)
354.80	**0.000**	355.72	0.000
354.81	0.000	355.73	0.000
354.82	0.000	355.74	0.000
354.83	0.000	355.75	0.000
354.84	0.000	355.76	0.000
354.85	0.000	355.77	0.000
354.86	0.000	355.78	0.000
354.87	0.000	355.79	0.000
354.88	0.000	355.80	0.000
354.89	0.000		
354.90	0.000		
354.91	0.000		
354.92	0.000		
354.93	0.000		
354.94	0.000		
354.95	0.000		
354.96	0.000		
354.97	0.000		
354.98	0.000		
354.99	0.000		
355.00	0.000		
355.01	0.000		
355.02	0.000		
355.03	0.000		
355.04	0.000		
355.05	0.000		
355.06	0.000		
355.07	0.000		
355.08	0.000		
355.09	0.000		
355.10	0.000		
355.11	0.000		
355.12	0.000		
355.13	0.000		
355.14	0.000		
355.15	0.000		
355.16	0.000		
355.17	0.000		
355.18	0.000		
355.19	0.000		
355.20	0.000		
355.21	0.000		
355.22	0.000		
355.23	0.000		
355.24	0.000		
355.25	0.000		
355.26	0.000		
355.27	0.000		
355.28	0.000		
355.29	0.000		
355.30	0.000		
355.31	0.000		
355.32	0.000		
355.33	0.000		
355.34	0.000		
355.35	0.000		
355.36	0.000		
355.37	0.000		
355.38	0.000		
355.39	0.000		
355.40	0.000		
355.41	0.000		
355.42	0.000		
355.43	0.000		
355.44	0.000		
355.45	0.000		
355.46	0.000		
355.47	0.000		
355.48	0.000		
355.49	0.000		
355.50	0.000		
355.51	0.000		
355.52	0.000		
355.53	0.000		
355.54	0.000		
355.55	0.000		
355.56	0.000		
355.57	0.000		
355.58	0.000		
355.59	0.000		
355.60	0.000		
355.61	0.000		
355.62	0.000		
355.63	0.000		
355.64	0.000		
355.65	0.000		
355.66	0.000		
355.67	0.000		
355.68	0.000		
355.69	0.000		
355.70	0.000		
355.71	0.000		

Summary for Link POST-DEV: Post-Development

Inflow Area = 14.288 ac, 0.00% Impervious, Inflow Depth = 0.58" for 100-yr event
Inflow = 22.78 cfs @ 0.36 hrs, Volume= 0.693 af
Primary = 22.78 cfs @ 0.36 hrs, Volume= 0.693 af, Atten= 0%, Lag= 0.0 min

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

Link POST-DEV: Post-Development



STROM SEWER SIZING

Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Sep 26 2024

CI-A1 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

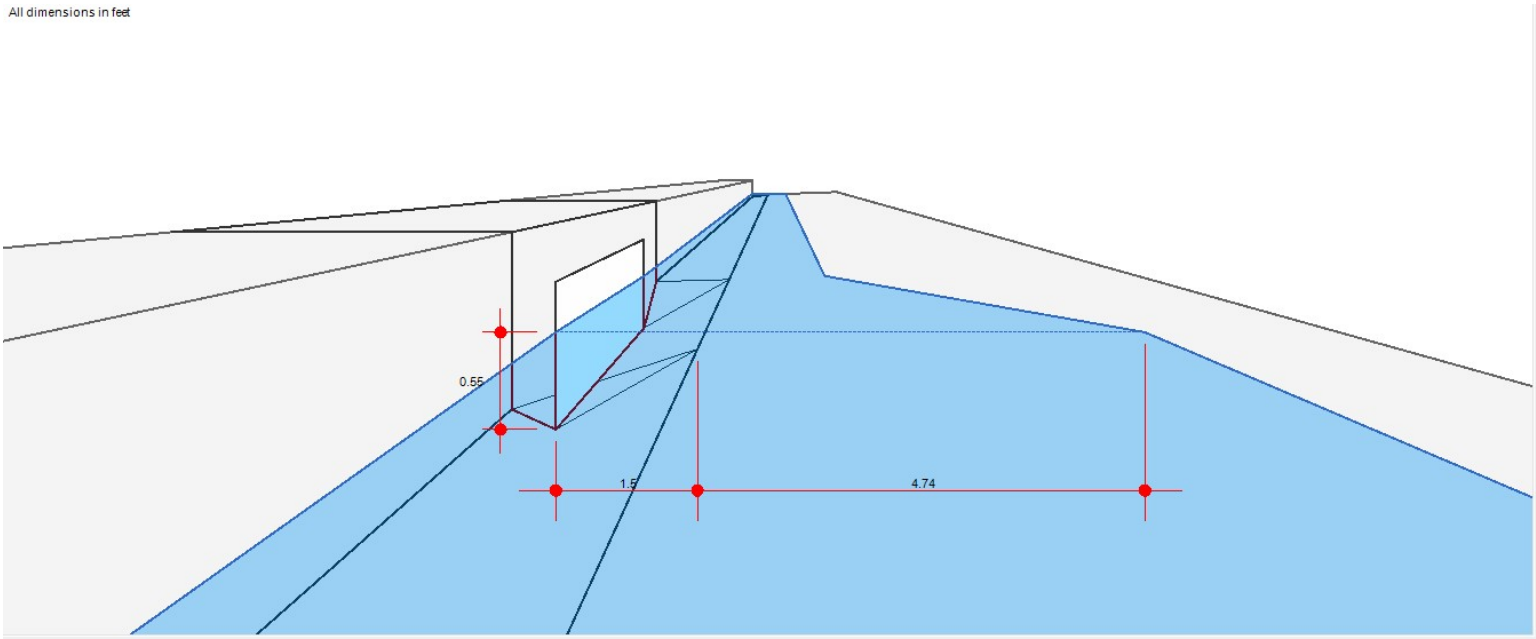
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.50
Gutter Slope (%)	=	3.00
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	1.79

Highlighted

Q Total (cfs)	=	1.79
Q Capt (cfs)	=	1.21
Q Bypass (cfs)	=	0.58
Depth at Inlet (in)	=	6.58
Efficiency (%)	=	68
Gutter Spread (ft)	=	6.24
Gutter Vel (ft/s)	=	3.92
Bypass Spread (ft)	=	3.19
Bypass Depth (in)	=	1.84



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-A2 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

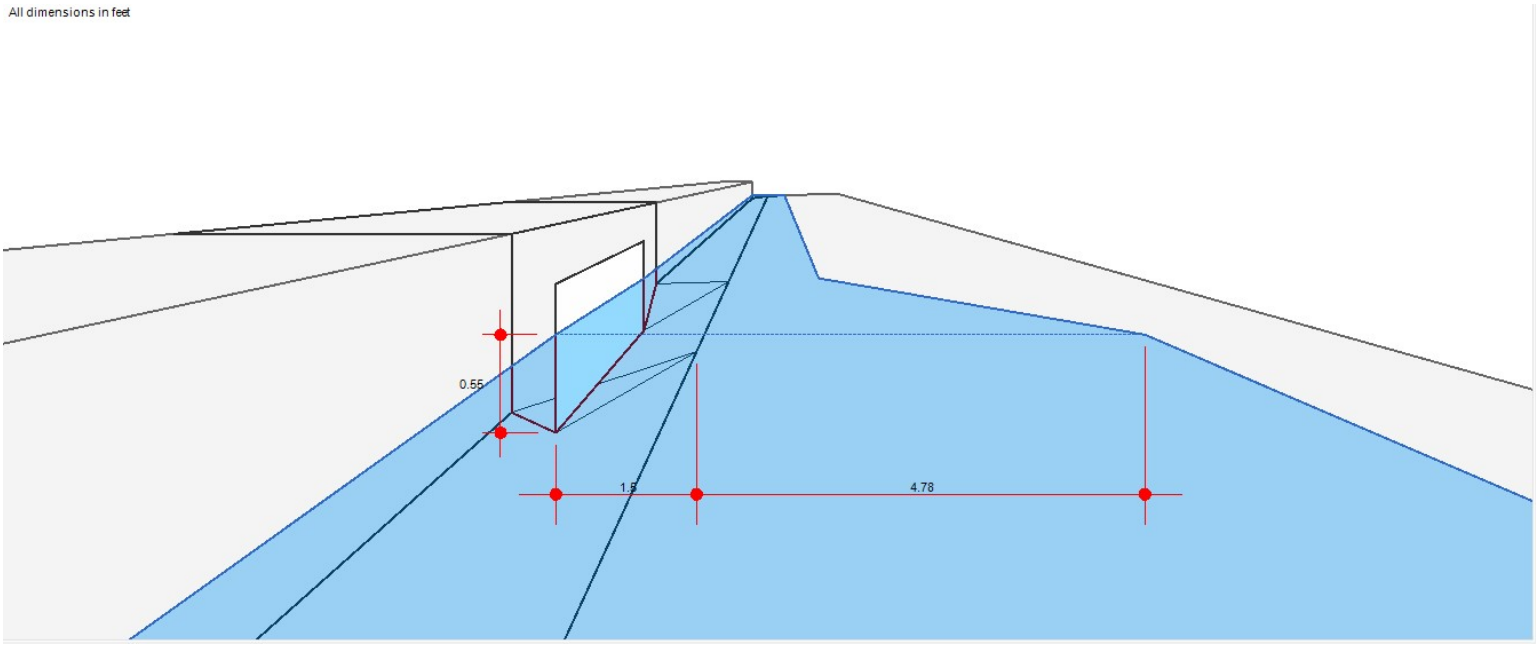
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.50
Gutter Slope (%)	=	2.80
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	1.75

Highlighted

Q Total (cfs)	=	1.75
Q Capt (cfs)	=	1.21
Q Bypass (cfs)	=	0.54
Depth at Inlet (in)	=	6.59
Efficiency (%)	=	69
Gutter Spread (ft)	=	6.28
Gutter Vel (ft/s)	=	3.79
Bypass Spread (ft)	=	3.10
Bypass Depth (in)	=	1.82



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-A3 (25 YEAR)

Curb Inlet

Location	= On grade
Curb Length (ft)	= 4.00
Throat Height (in)	= 2.00
Grate Area (sqft)	= -0-
Grate Width (ft)	= -0-
Grate Length (ft)	= -0-

Gutter

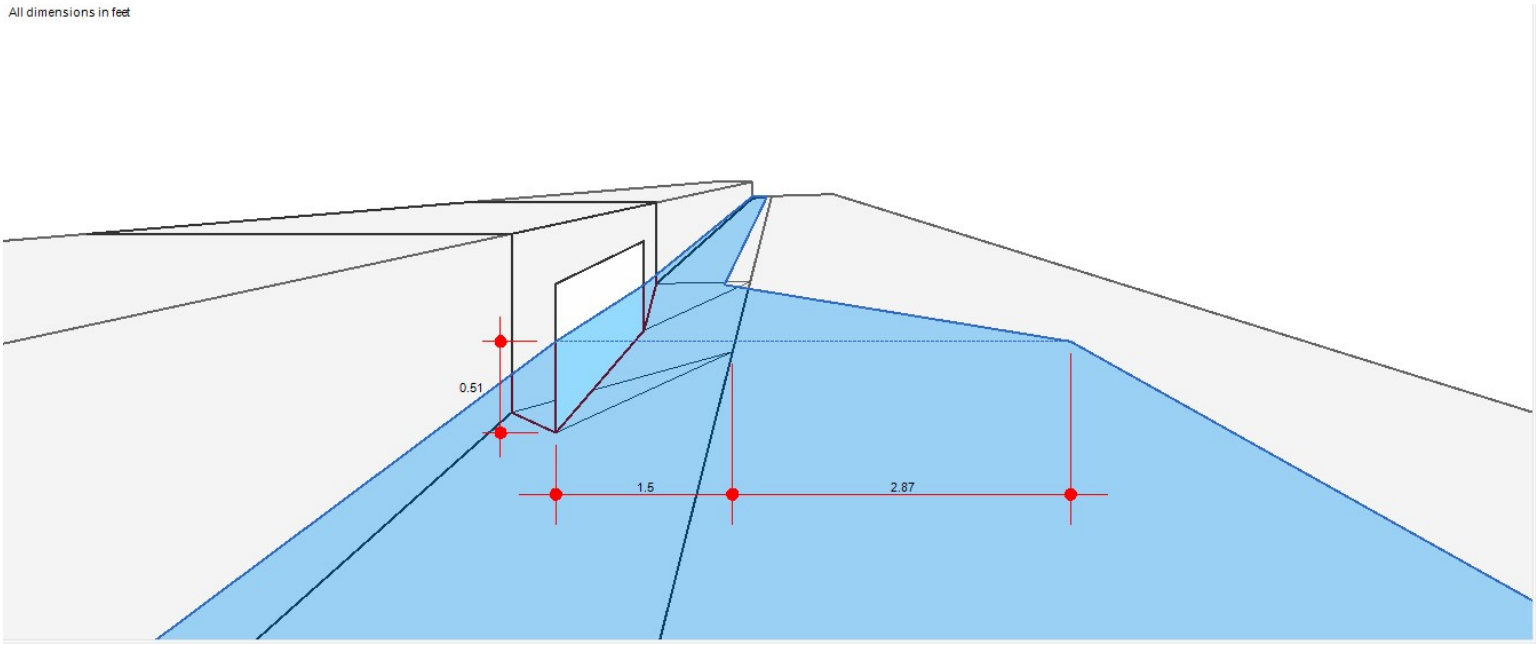
Slope, Sw (ft/ft)	= 0.080
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 4.00
Gutter Width (ft)	= 1.50
Gutter Slope (%)	= 3.40
Gutter n-value	= 0.015

Calculations

Compute by:	Known Q
Q (cfs)	= 0.98

Highlighted

Q Total (cfs)	= 0.98
Q Capt (cfs)	= 0.84
Q Bypass (cfs)	= 0.14
Depth at Inlet (in)	= 6.13
Efficiency (%)	= 85
Gutter Spread (ft)	= 4.37
Gutter Vel (ft/s)	= 3.79
Bypass Spread (ft)	= 1.14
Bypass Depth (in)	= 1.09



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Sep 27 2024

CI-A4

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

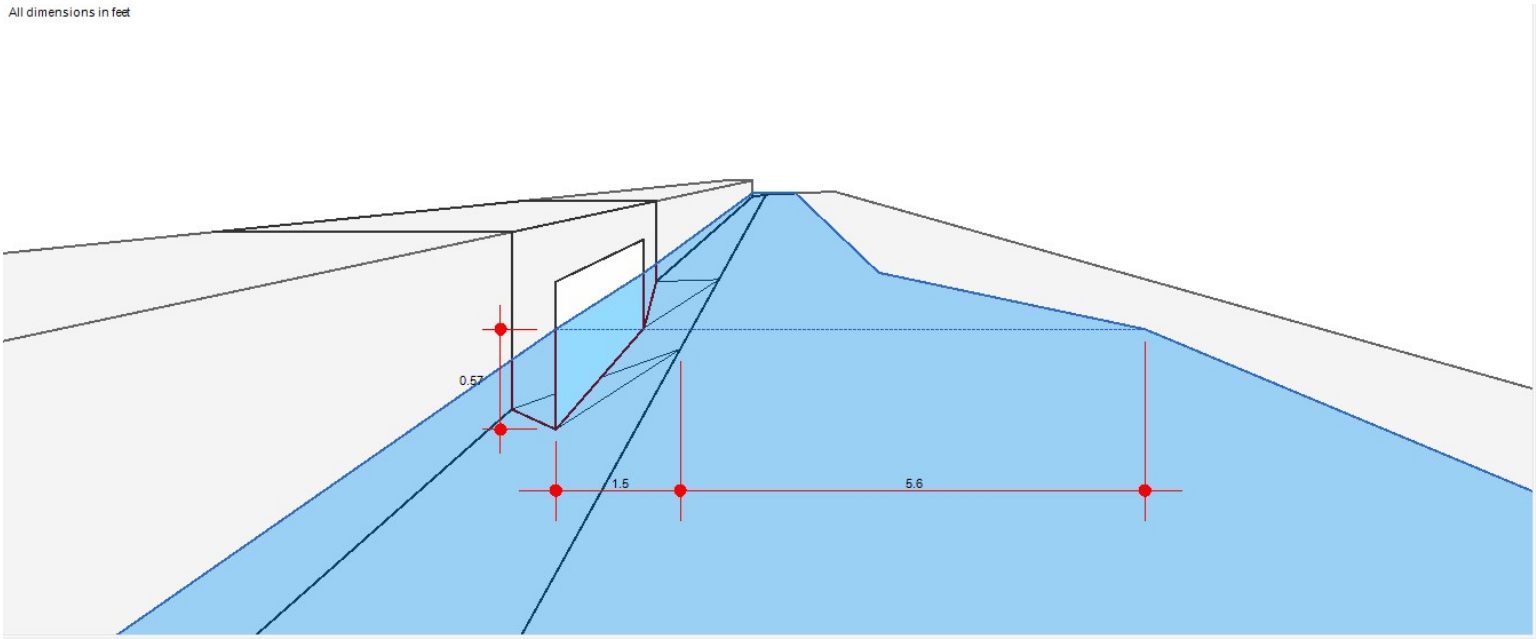
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.50
Gutter Slope (%)	=	3.60
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	2.57

Highlighted

Q Total (cfs)	=	2.57
Q Capt (cfs)	=	1.42
Q Bypass (cfs)	=	1.15
Depth at Inlet (in)	=	6.78
Efficiency (%)	=	55
Gutter Spread (ft)	=	7.10
Gutter Vel (ft/s)	=	4.50
Bypass Spread (ft)	=	4.72
Bypass Depth (in)	=	2.21



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Sep 27 2024

CI-A5

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

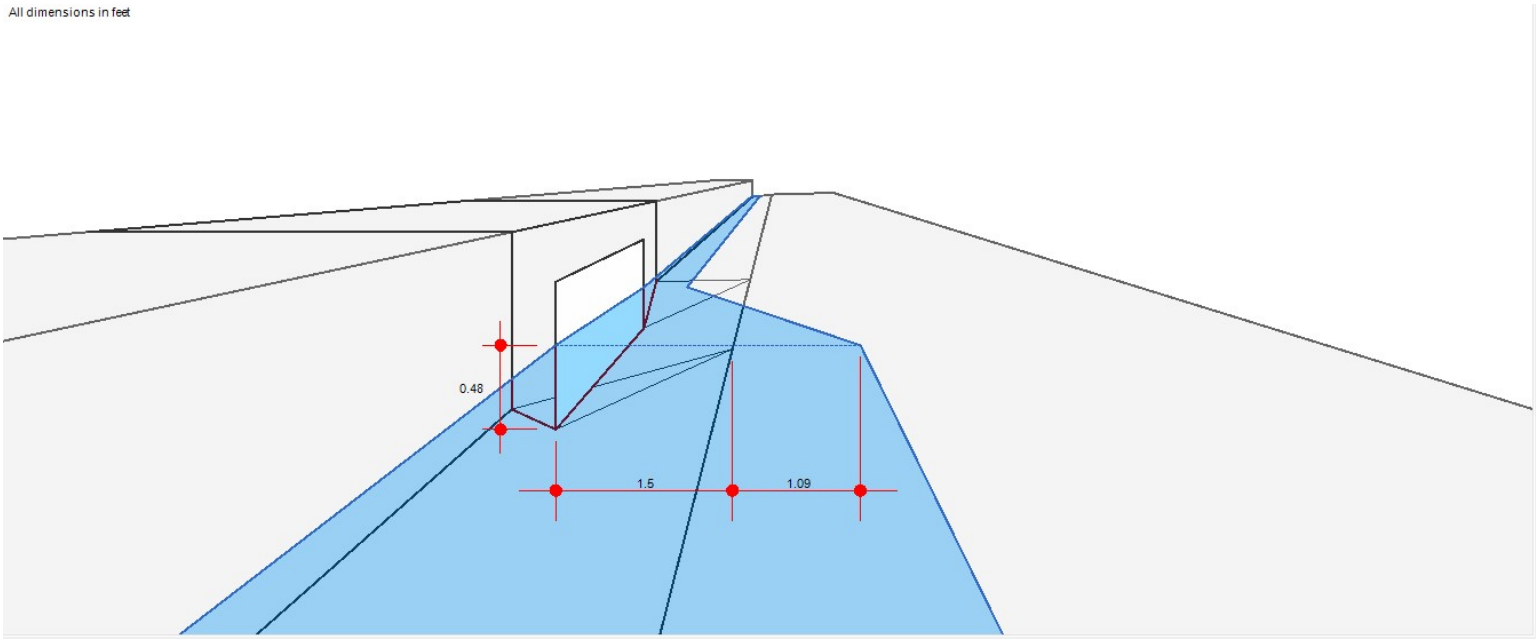
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.50
Gutter Slope (%)	=	5.00
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	0.58

Highlighted

Q Total (cfs)	=	0.58
Q Capt (cfs)	=	0.55
Q Bypass (cfs)	=	0.03
Depth at Inlet (in)	=	5.70
Efficiency (%)	=	94
Gutter Spread (ft)	=	2.59
Gutter Vel (ft/s)	=	4.32
Bypass Spread (ft)	=	0.61
Bypass Depth (in)	=	0.58



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Sep 27 2024

AI-B1 (25 YEAR)

Drop Grate Inlet

Location	=	Sag
Curb Length (ft)	=	-0-
Throat Height (in)	=	-0-
Grate Area (sqft)	=	1.00
Grate Width (ft)	=	1.00
Grate Length (ft)	=	1.00

Gutter

Slope, Sw (ft/ft)	=	0.020
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	-0-
Gutter Width (ft)	=	1.40
Gutter Slope (%)	=	-0-
Gutter n-value	=	-0-

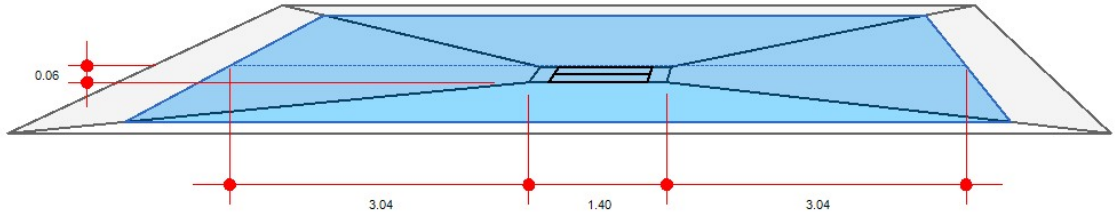
Calculations

Compute by:		Known Q
Q (cfs)	=	0.18

Highlighted

Q Total (cfs)	=	0.18
Q Capt (cfs)	=	0.18
Q Bypass (cfs)	=	-0-
Depth at Inlet (in)	=	0.73
Efficiency (%)	=	100
Gutter Spread (ft)	=	7.47
Gutter Vel (ft/s)	=	-0-
Bypass Spread (ft)	=	-0-
Bypass Depth (in)	=	-0-

All dimensions in feet



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

AI-B2 (25 YEAR)

Drop Grate Inlet

Location	= Sag
Curb Length (ft)	= -0-
Throat Height (in)	= -0-
Grate Area (sqft)	= 1.00
Grate Width (ft)	= 1.00
Grate Length (ft)	= 1.00

Gutter

Slope, Sw (ft/ft)	= 0.020
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= -0-
Gutter Width (ft)	= 1.40
Gutter Slope (%)	= -0-
Gutter n-value	= -0-

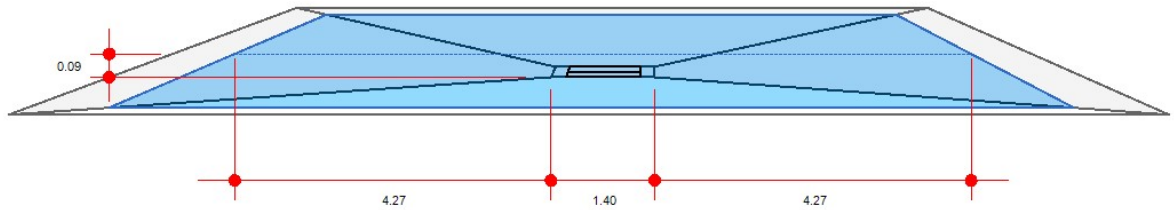
Calculations

Compute by:	Known Q
Q (cfs)	= 0.30

Highlighted

Q Total (cfs)	= 0.30
Q Capt (cfs)	= 0.30
Q Bypass (cfs)	= -0-
Depth at Inlet (in)	= 1.02
Efficiency (%)	= 100
Gutter Spread (ft)	= 9.94
Gutter Vel (ft/s)	= 3.79
Bypass Spread (ft)	= -0-
Bypass Depth (in)	= -0-

All dimensions in feet



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C1 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

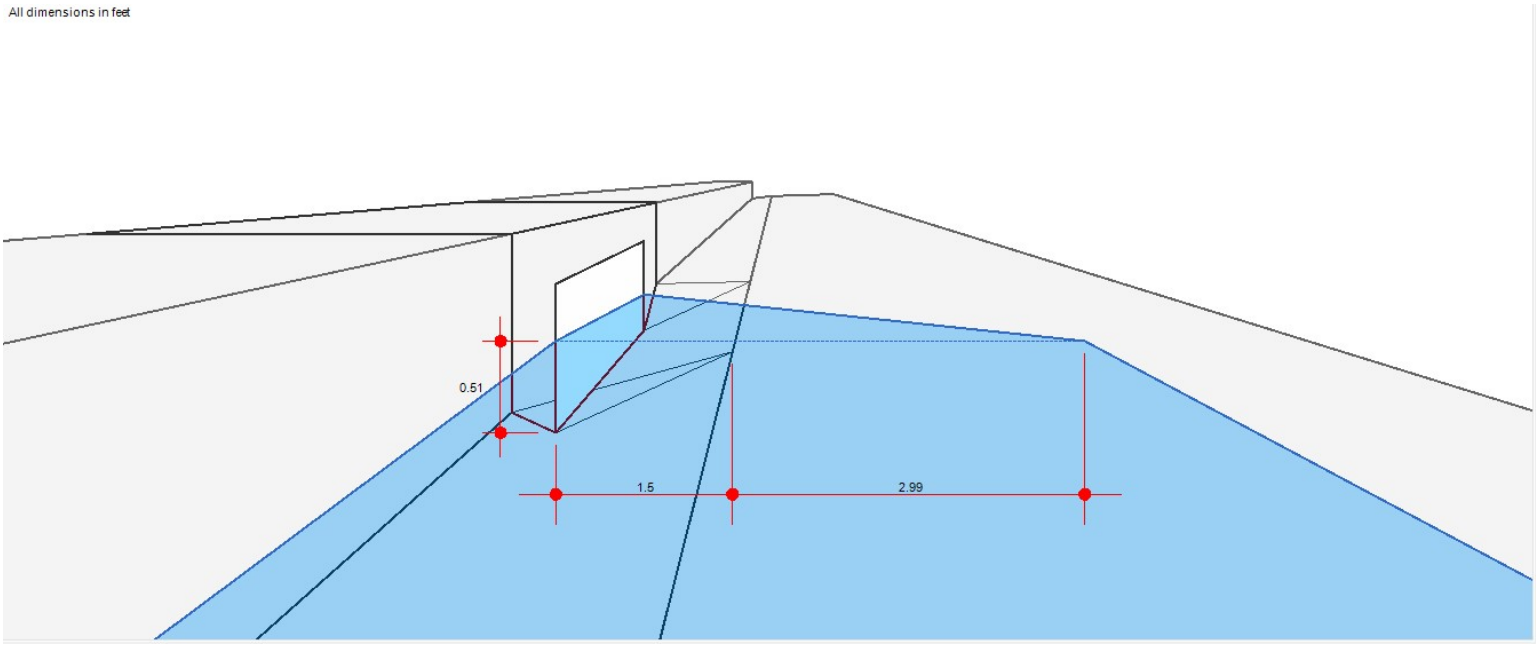
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.50
Gutter Slope (%)	=	1.20
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	0.61

Highlighted

Q Total (cfs)	=	0.61
Q Capt (cfs)	=	0.61
Q Bypass (cfs)	=	-0-
Depth at Inlet (in)	=	6.16
Efficiency (%)	=	100
Gutter Spread (ft)	=	4.49
Gutter Vel (ft/s)	=	2.27
Bypass Spread (ft)	=	-0-
Bypass Depth (in)	=	-0-



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C2 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

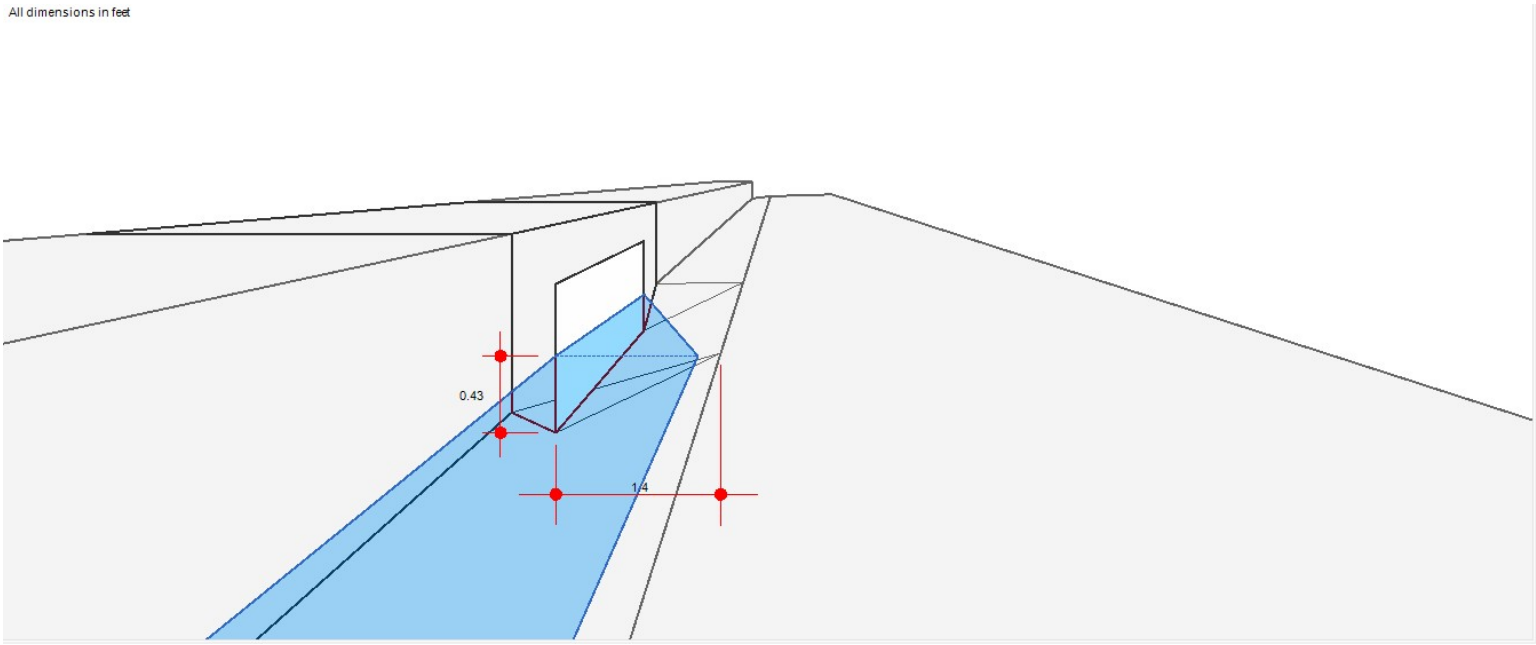
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.40
Gutter Slope (%)	=	1.20
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	0.10

Highlighted

Q Total (cfs)	=	0.10
Q Capt (cfs)	=	0.10
Q Bypass (cfs)	=	-0-
Depth at Inlet (in)	=	5.16
Efficiency (%)	=	100
Gutter Spread (ft)	=	1.21
Gutter Vel (ft/s)	=	1.72
Bypass Spread (ft)	=	-0-
Bypass Depth (in)	=	-0-



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C4 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

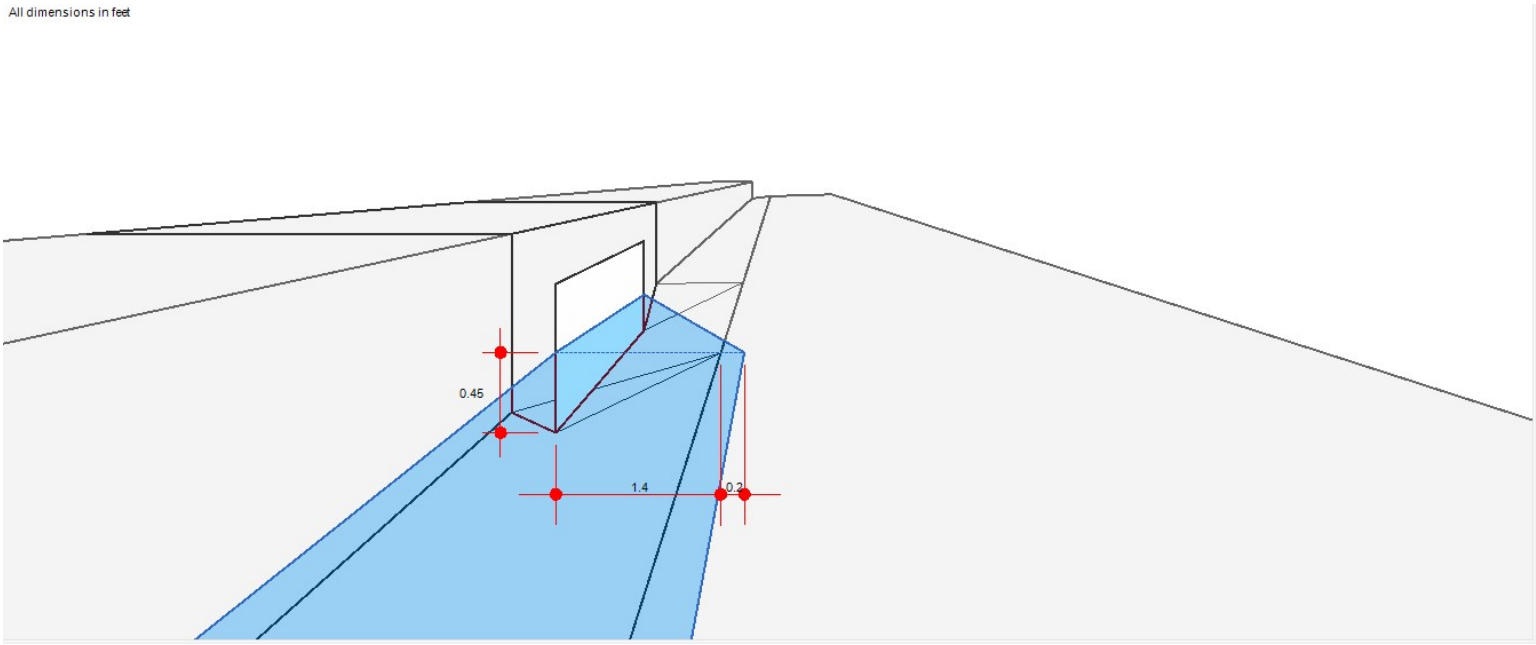
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.40
Gutter Slope (%)	=	4.90
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	0.33

Highlighted

Q Total (cfs)	=	0.33
Q Capt (cfs)	=	0.33
Q Bypass (cfs)	=	-0-
Depth at Inlet (in)	=	5.39
Efficiency (%)	=	100
Gutter Spread (ft)	=	1.60
Gutter Vel (ft/s)	=	3.91
Bypass Spread (ft)	=	-0-
Bypass Depth (in)	=	-0-



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-C5 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

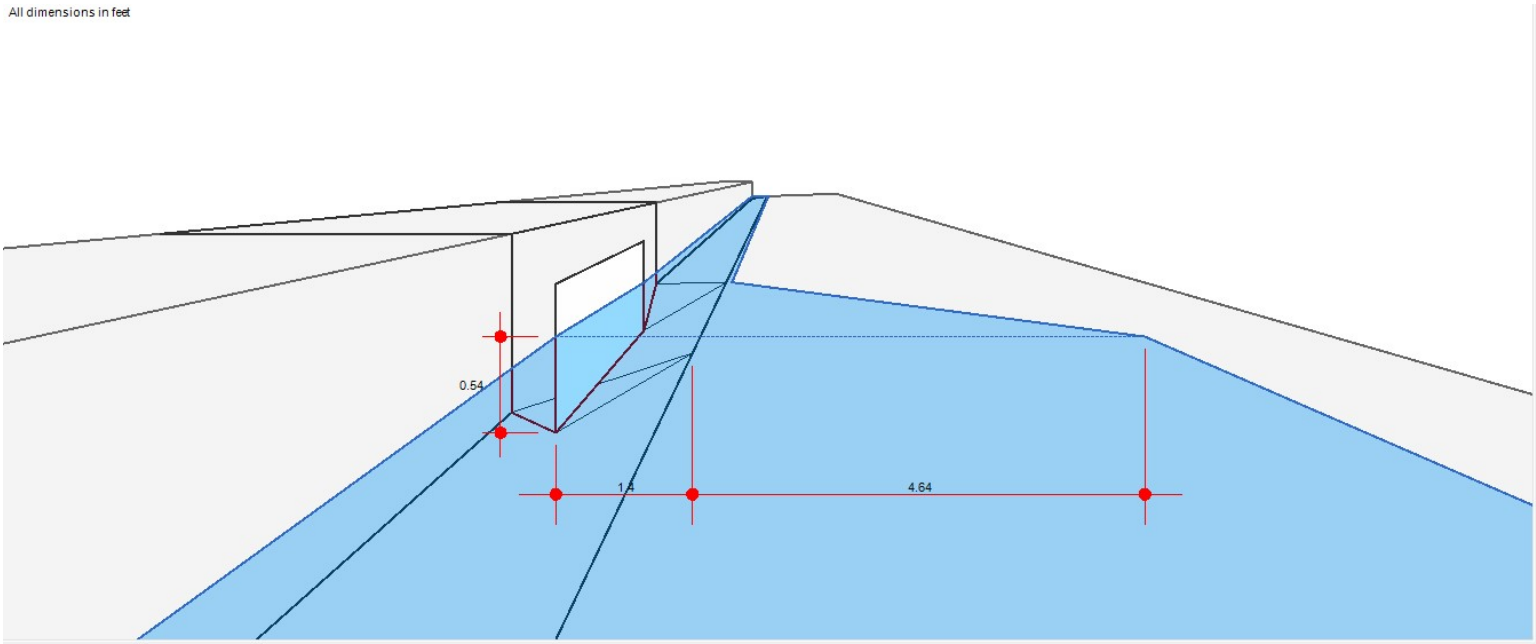
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.40
Gutter Slope (%)	=	1.80
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	1.24

Highlighted

Q Total (cfs)	=	1.24
Q Capt (cfs)	=	1.05
Q Bypass (cfs)	=	0.19
Depth at Inlet (in)	=	6.46
Efficiency (%)	=	85
Gutter Spread (ft)	=	6.04
Gutter Vel (ft/s)	=	2.93
Bypass Spread (ft)	=	1.50
Bypass Depth (in)	=	1.37



Inlet Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

CI-D1 (25 YEAR)

Curb Inlet

Location	=	On grade
Curb Length (ft)	=	4.00
Throat Height (in)	=	2.00
Grate Area (sqft)	=	-0-
Grate Width (ft)	=	-0-
Grate Length (ft)	=	-0-

Gutter

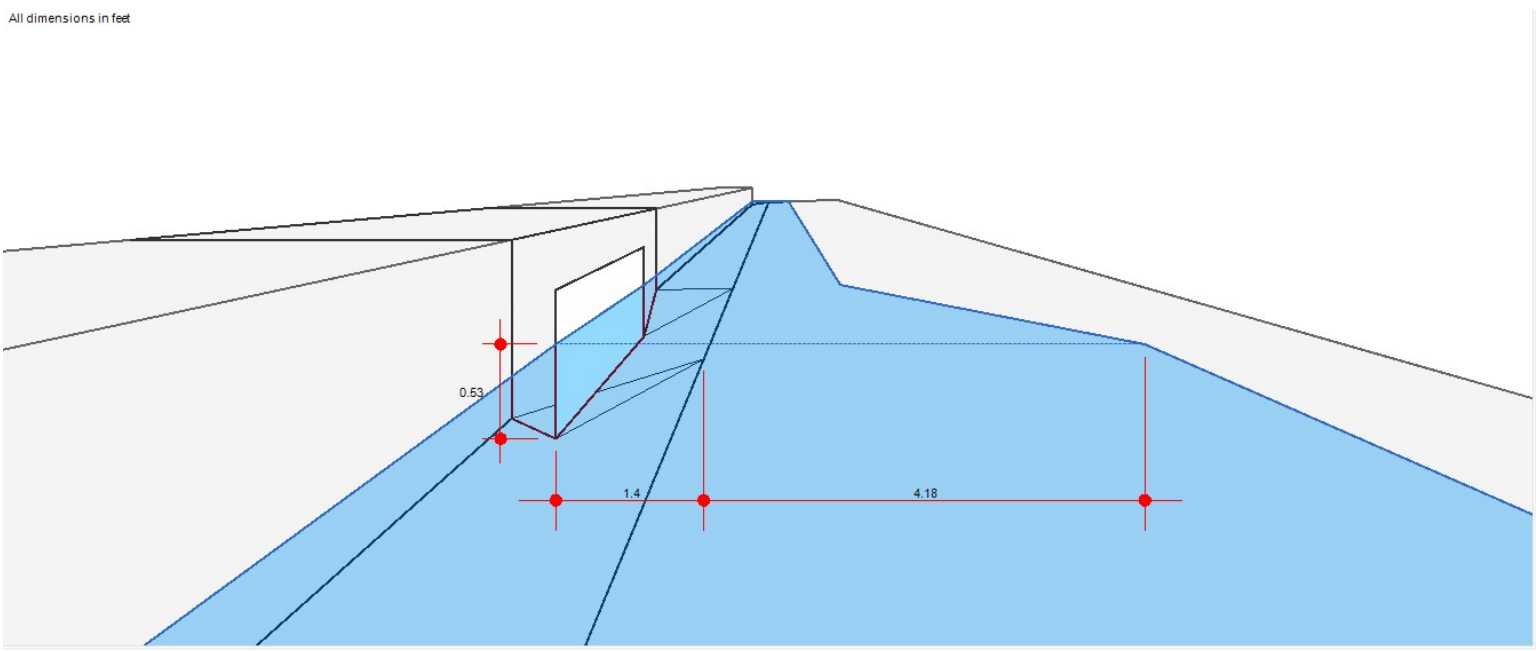
Slope, Sw (ft/ft)	=	0.080
Slope, Sx (ft/ft)	=	0.020
Local Depr (in)	=	4.00
Gutter Width (ft)	=	1.40
Gutter Slope (%)	=	5.00
Gutter n-value	=	0.015

Calculations

Compute by:		Known Q
Q (cfs)	=	1.76

Highlighted

Q Total (cfs)	=	1.76
Q Capt (cfs)	=	1.11
Q Bypass (cfs)	=	0.65
Depth at Inlet (in)	=	6.35
Efficiency (%)	=	63
Gutter Spread (ft)	=	5.58
Gutter Vel (ft/s)	=	4.76
Bypass Spread (ft)	=	3.10
Bypass Depth (in)	=	1.75



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A1 (25 YEAR)

Circular

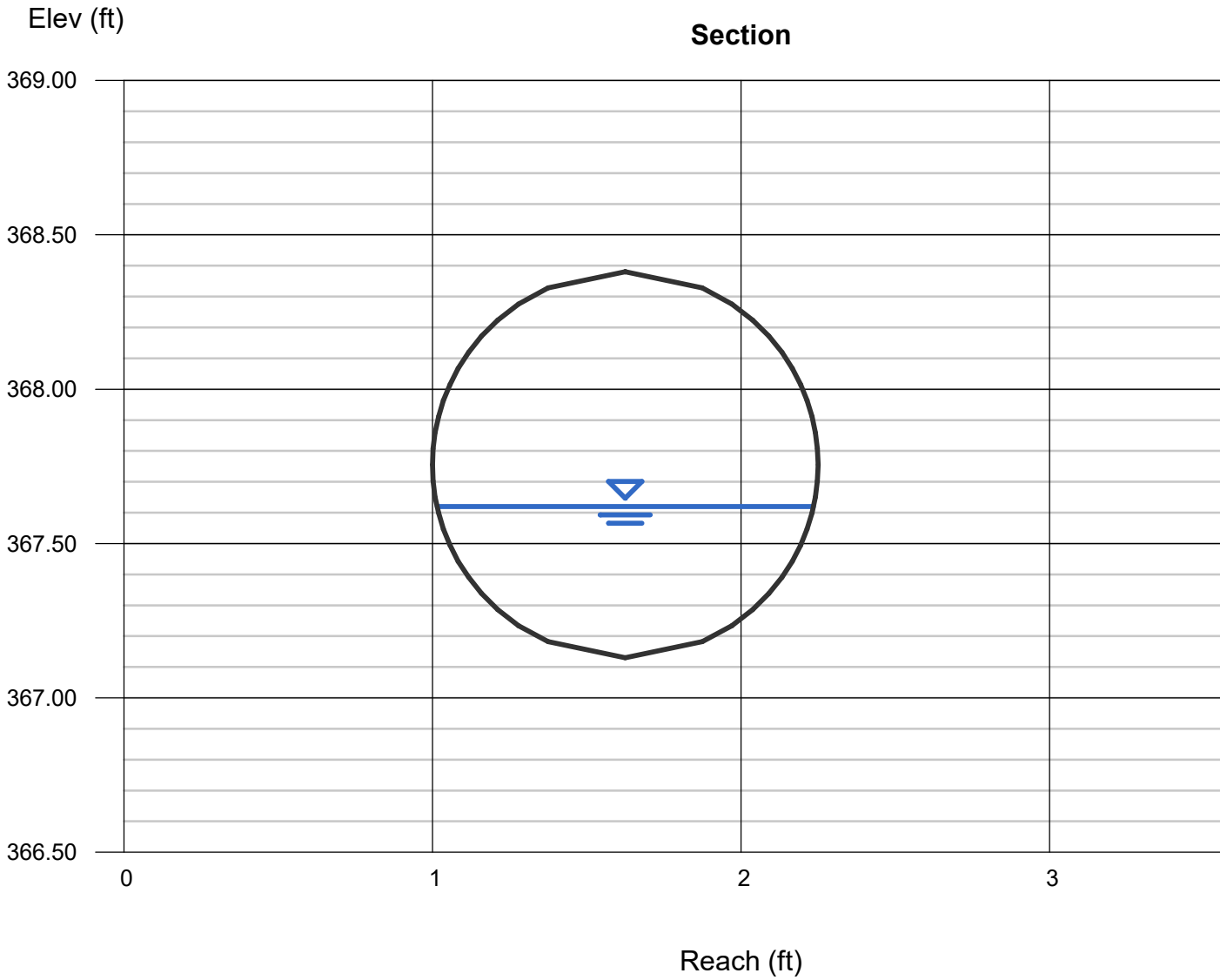
Diameter (ft)	= 1.25
Invert Elev (ft)	= 367.13
Slope (%)	= 1.03
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 1.79

Highlighted

Depth (ft)	= 0.49
Q (cfs)	= 1.790
Area (sqft)	= 0.45
Velocity (ft/s)	= 4.00
Wetted Perim (ft)	= 1.69
Crit Depth, Yc (ft)	= 0.54
Top Width (ft)	= 1.22
EGL (ft)	= 0.74



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A2 (25 YEAR)

Circular

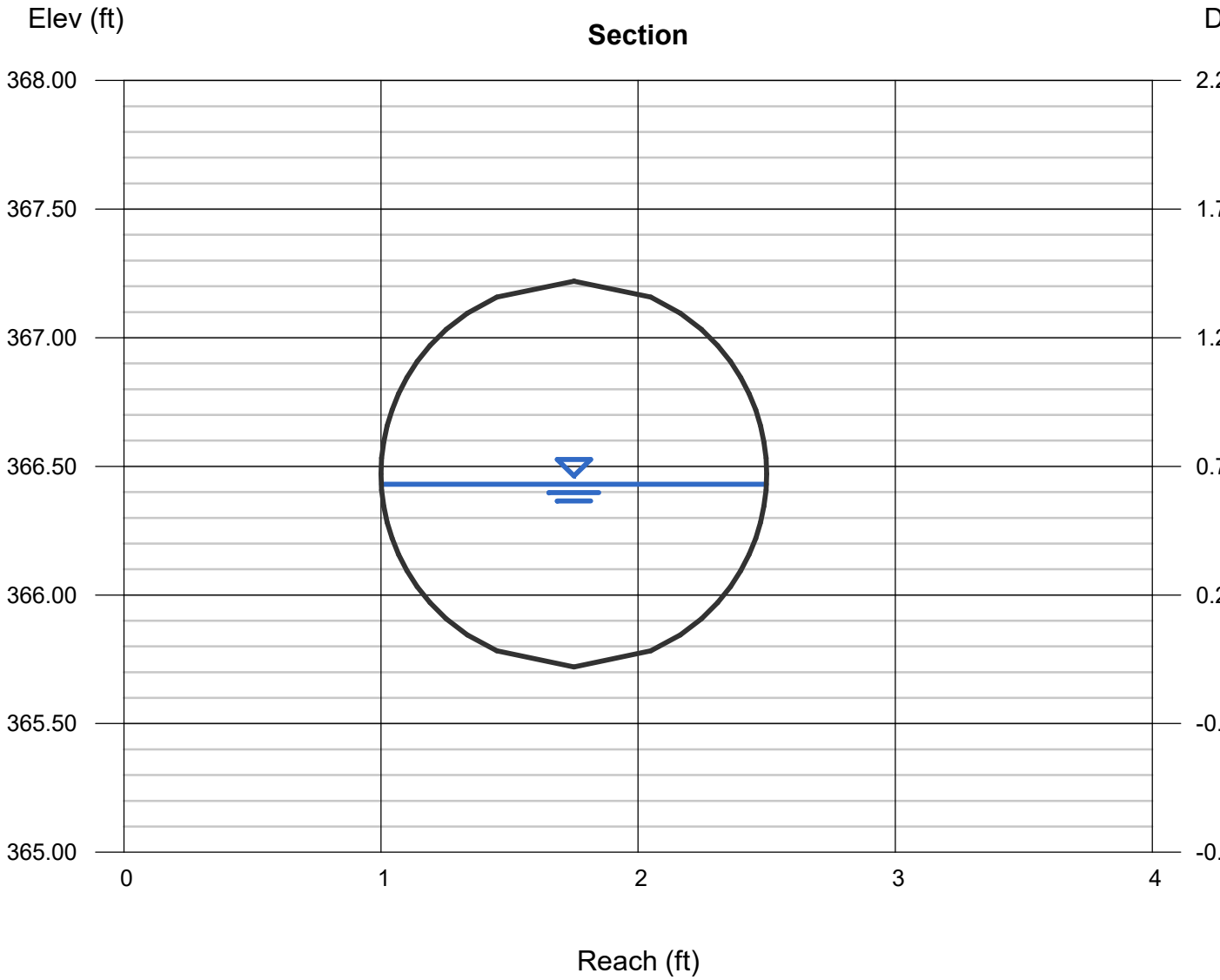
Diameter (ft)	=	1.50
Invert Elev (ft)	=	365.72
Slope (%)	=	0.95
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	4.02

Highlighted

Depth (ft)	=	0.71
Q (cfs)	=	4.020
Area (sqft)	=	0.83
Velocity (ft/s)	=	4.86
Wetted Perim (ft)	=	2.28
Crit Depth, Yc (ft)	=	0.77
Top Width (ft)	=	1.50
EGL (ft)	=	1.08



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A3 (25 YEAR)

Circular

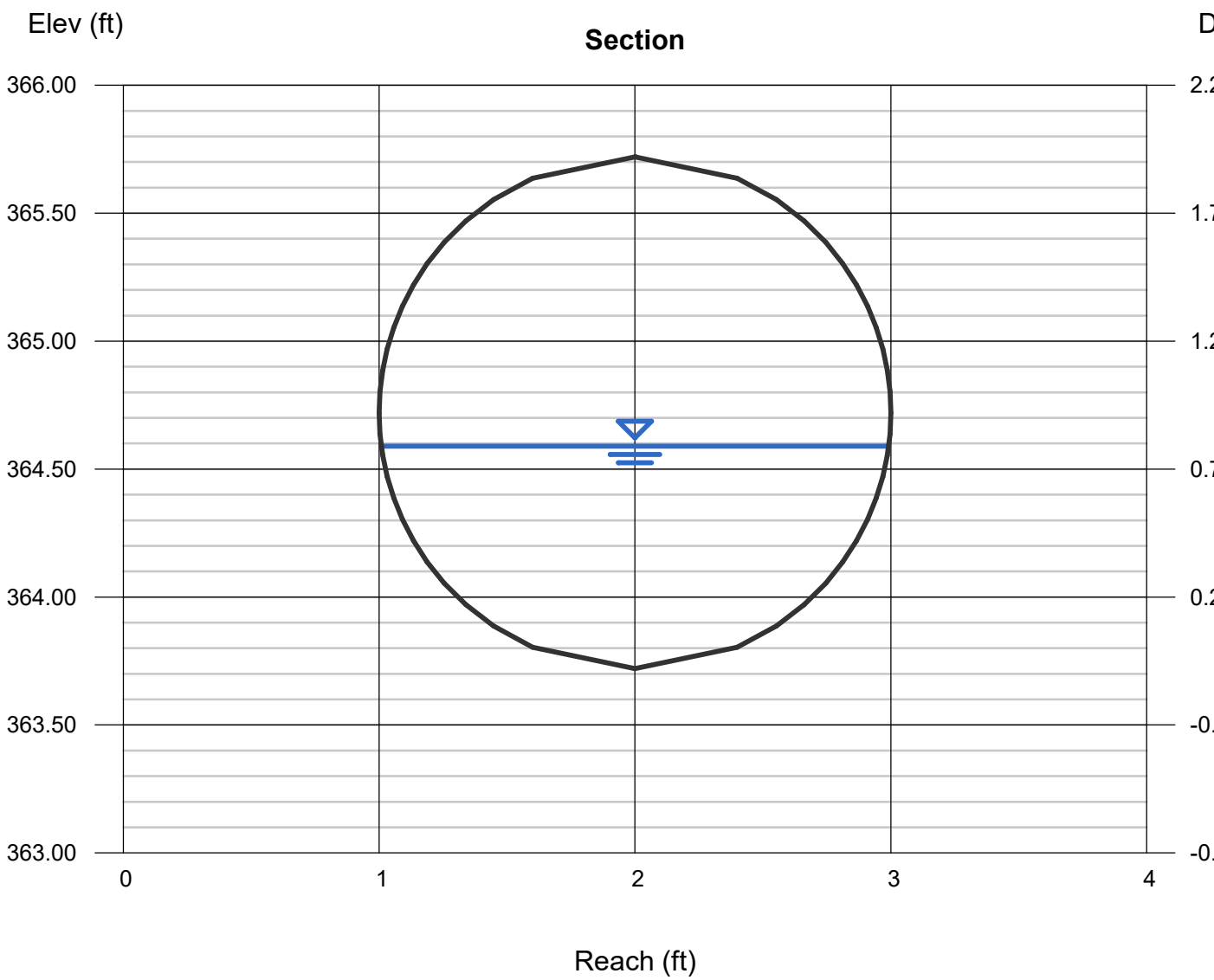
Diameter (ft)	=	2.00
Invert Elev (ft)	=	363.72
Slope (%)	=	0.98
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	7.56

Highlighted

Depth (ft)	=	0.87
Q (cfs)	=	7.560
Area (sqft)	=	1.32
Velocity (ft/s)	=	5.72
Wetted Perim (ft)	=	2.89
Crit Depth, Yc (ft)	=	0.98
Top Width (ft)	=	1.98
EGL (ft)	=	1.38



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A4 (25 YEAR)

Circular

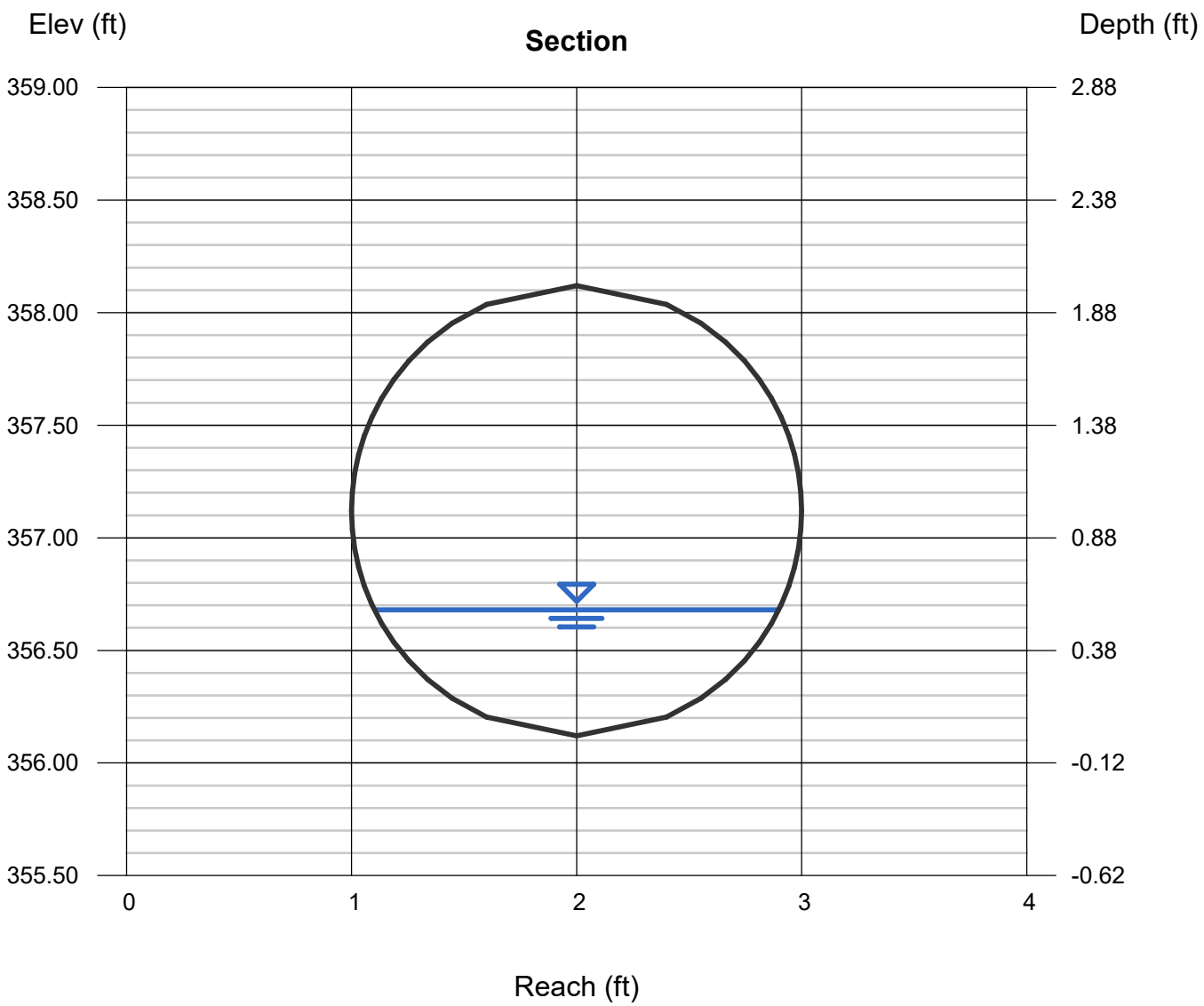
Diameter (ft)	=	2.00
Invert Elev (ft)	=	356.12
Slope (%)	=	5.01
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	7.56

Highlighted

Depth (ft)	=	0.56
Q (cfs)	=	7.560
Area (sqft)	=	0.73
Velocity (ft/s)	=	10.39
Wetted Perim (ft)	=	2.24
Crit Depth, Yc (ft)	=	0.98
Top Width (ft)	=	1.80
EGL (ft)	=	2.24



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE A5 (25 YEAR)

Circular

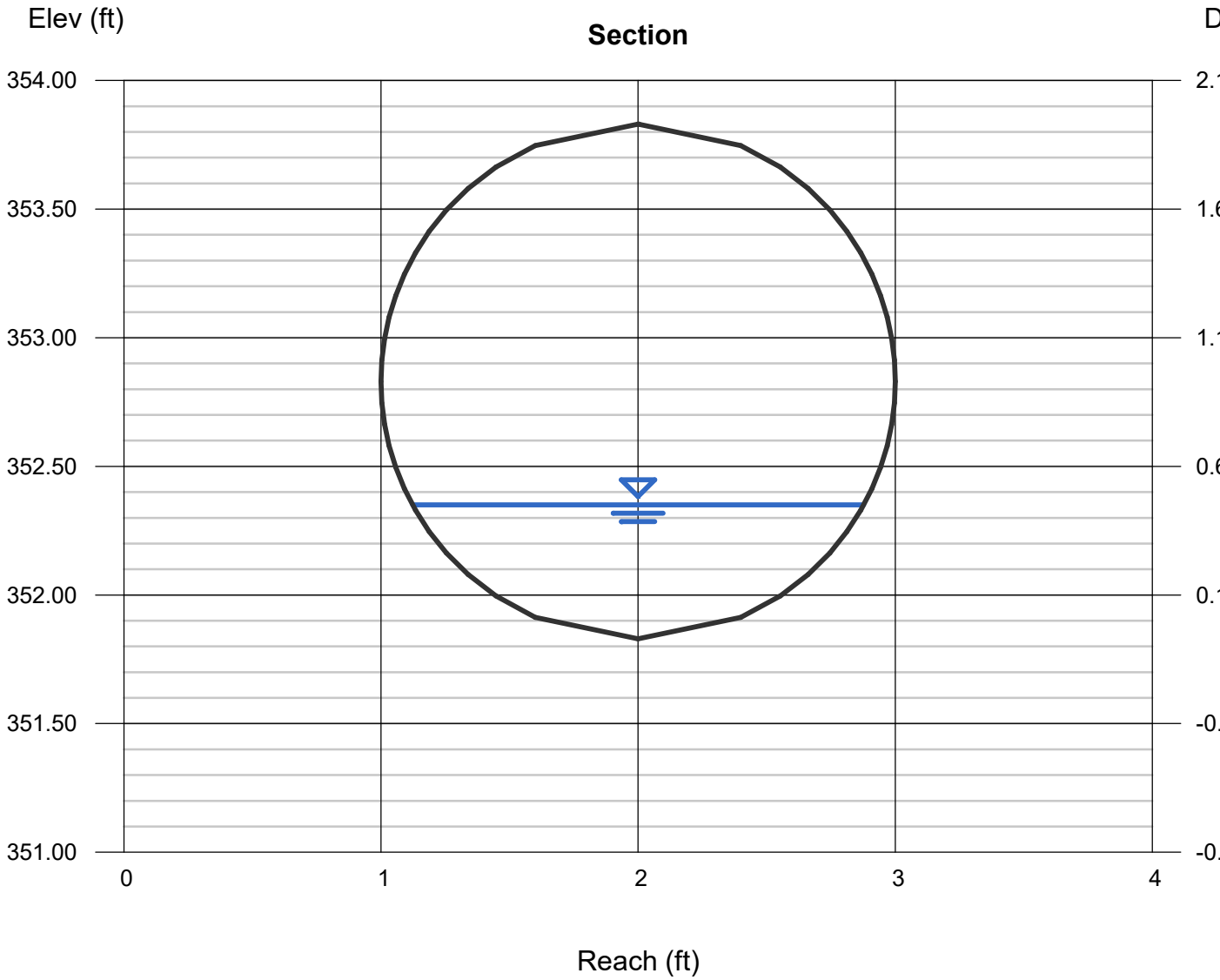
Diameter (ft)	=	2.00
Invert Elev (ft)	=	351.83
Slope (%)	=	8.14
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	8.14

Highlighted

Depth (ft)	=	0.52
Q (cfs)	=	8.140
Area (sqft)	=	0.66
Velocity (ft/s)	=	12.40
Wetted Perim (ft)	=	2.15
Crit Depth, Yc (ft)	=	1.02
Top Width (ft)	=	1.76
EGL (ft)	=	2.91



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE B1 (25 YEAR)

Circular

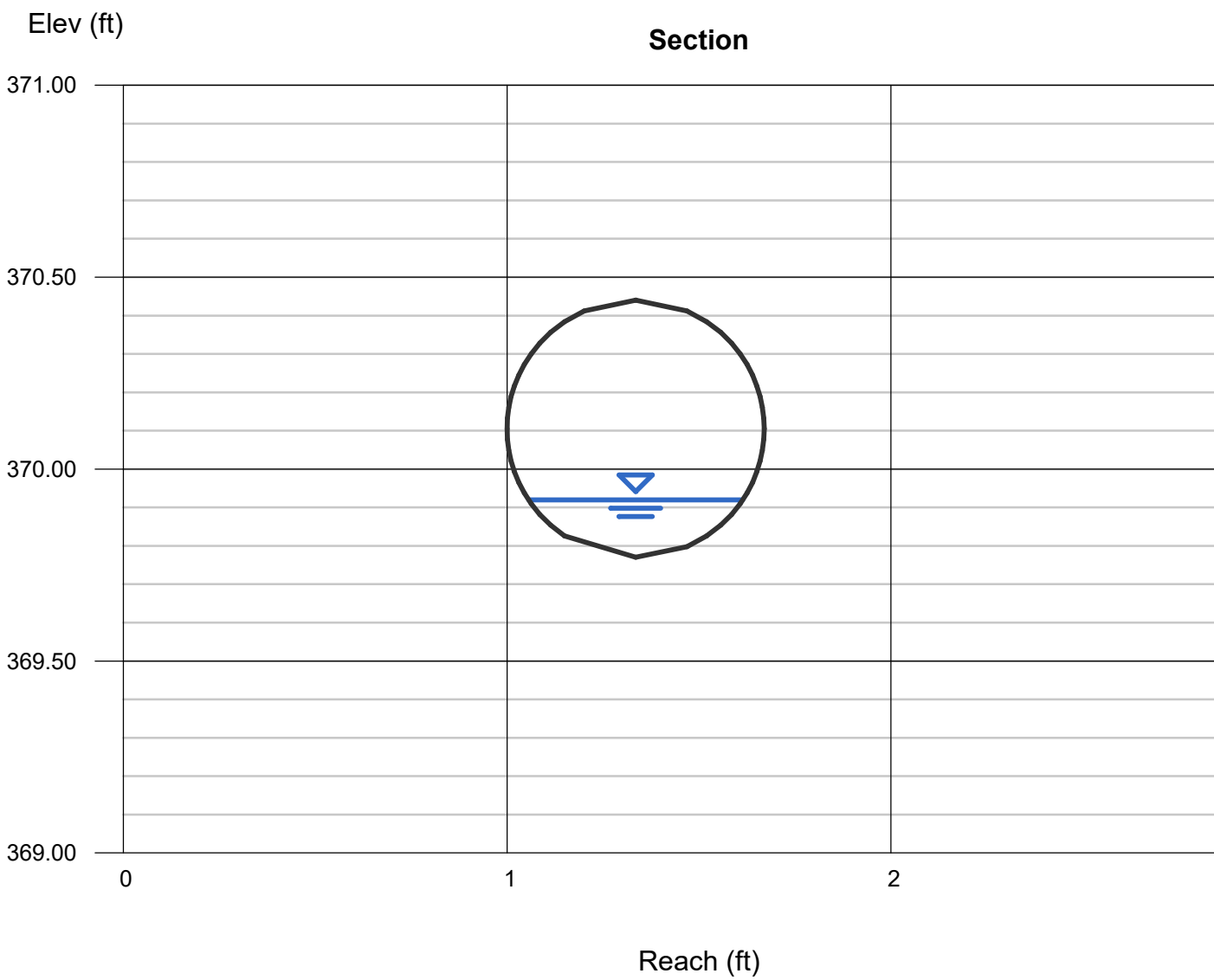
Diameter (ft)	=	0.67
Invert Elev (ft)	=	369.77
Slope (%)	=	3.00
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	0.18

Highlighted

Depth (ft)	=	0.15
Q (cfs)	=	0.180
Area (sqft)	=	0.06
Velocity (ft/s)	=	3.02
Wetted Perim (ft)	=	0.66
Crit Depth, Yc (ft)	=	0.20
Top Width (ft)	=	0.56
EGL (ft)	=	0.29



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE B2 (25 YEAR)

Circular

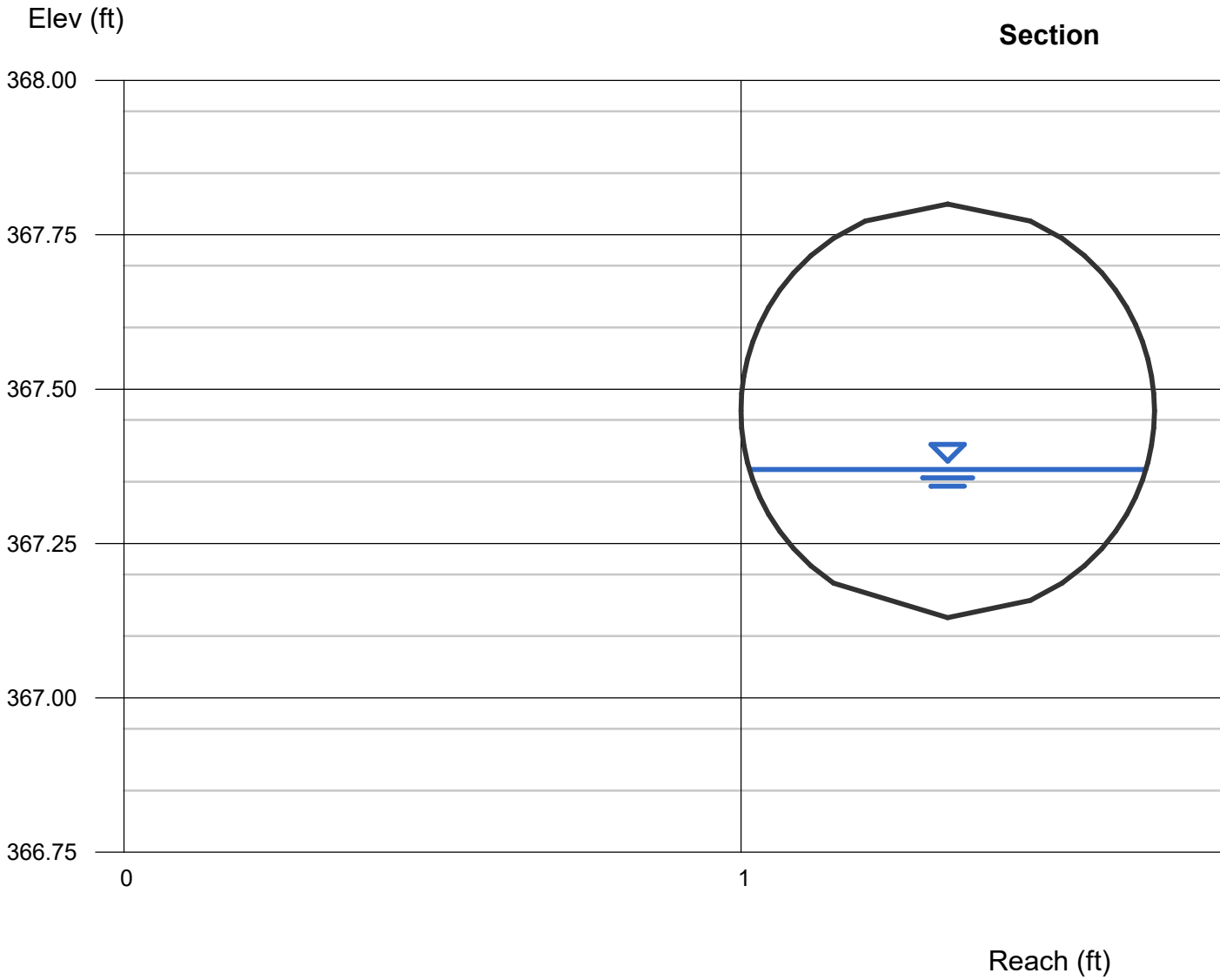
Diameter (ft)	= 0.67
Invert Elev (ft)	= 367.13
Slope (%)	= 3.00
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.48

Highlighted

Depth (ft)	= 0.24
Q (cfs)	= 0.480
Area (sqft)	= 0.11
Velocity (ft/s)	= 4.22
Wetted Perim (ft)	= 0.86
Crit Depth, Yc (ft)	= 0.33
Top Width (ft)	= 0.64
EGL (ft)	= 0.52



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C1 (25 YEAR)

Circular

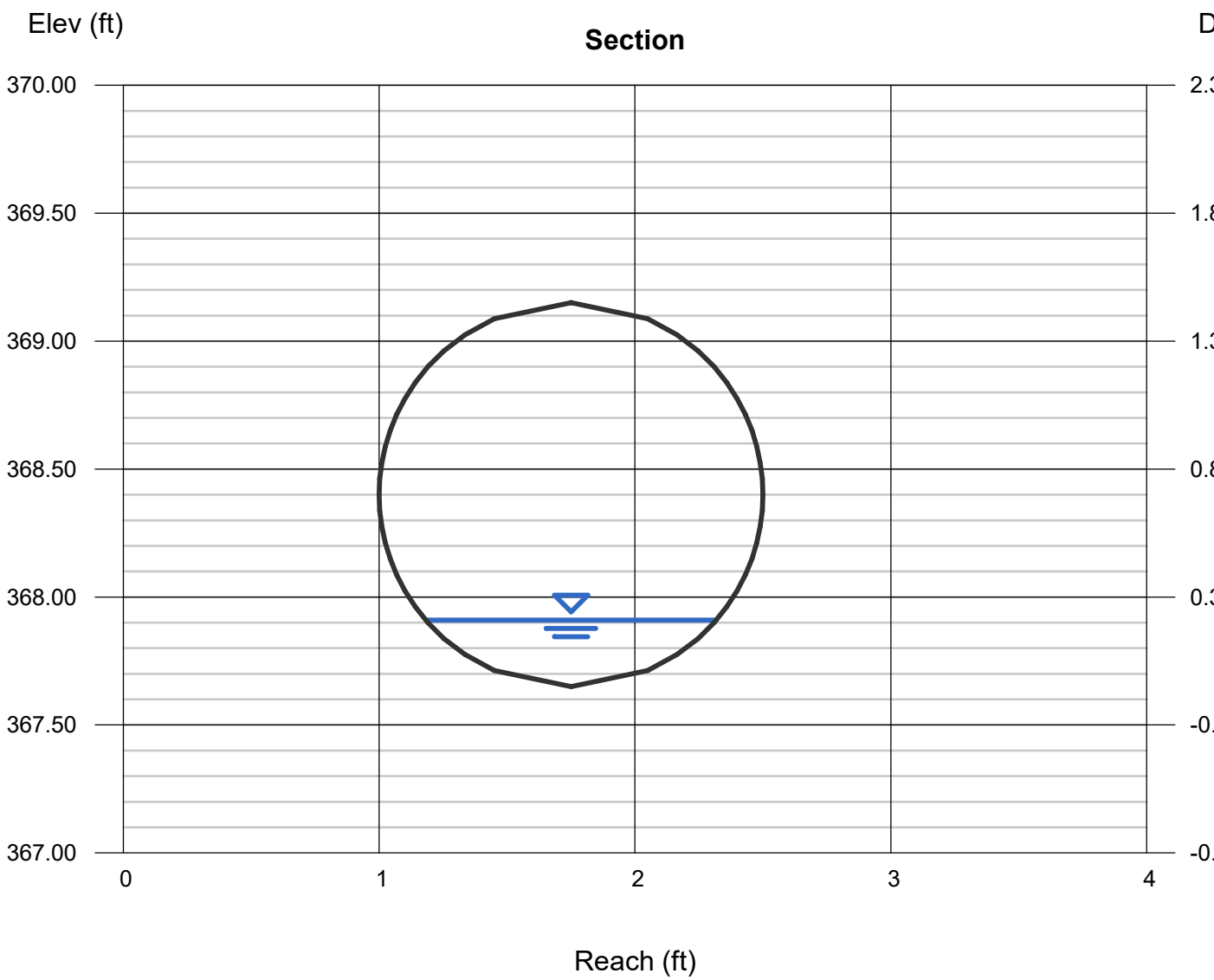
Diameter (ft)	= 1.50
Invert Elev (ft)	= 367.65
Slope (%)	= 1.14
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.61

Highlighted

Depth (ft)	= 0.26
Q (cfs)	= 0.610
Area (sqft)	= 0.21
Velocity (ft/s)	= 2.97
Wetted Perim (ft)	= 1.29
Crit Depth, Yc (ft)	= 0.29
Top Width (ft)	= 1.14
EGL (ft)	= 0.40



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C2 (25 YEAR)

Circular

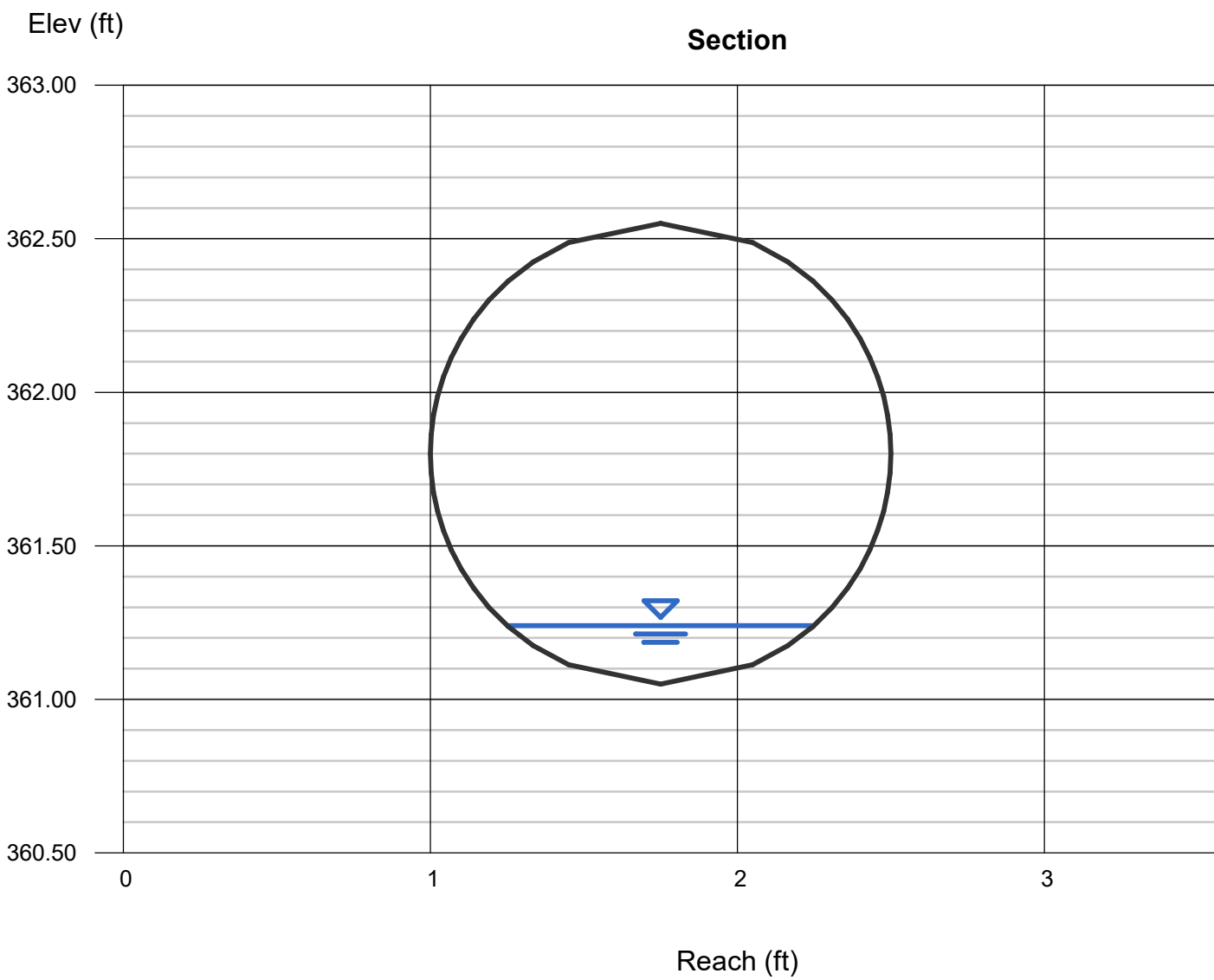
Diameter (ft)	=	1.50
Invert Elev (ft)	=	361.05
Slope (%)	=	6.06
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	0.72

Highlighted

Depth (ft)	=	0.19
Q (cfs)	=	0.720
Area (sqft)	=	0.13
Velocity (ft/s)	=	5.49
Wetted Perim (ft)	=	1.09
Crit Depth, Yc (ft)	=	0.32
Top Width (ft)	=	1.00
EGL (ft)	=	0.66



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C3 (25 YEAR)

Circular

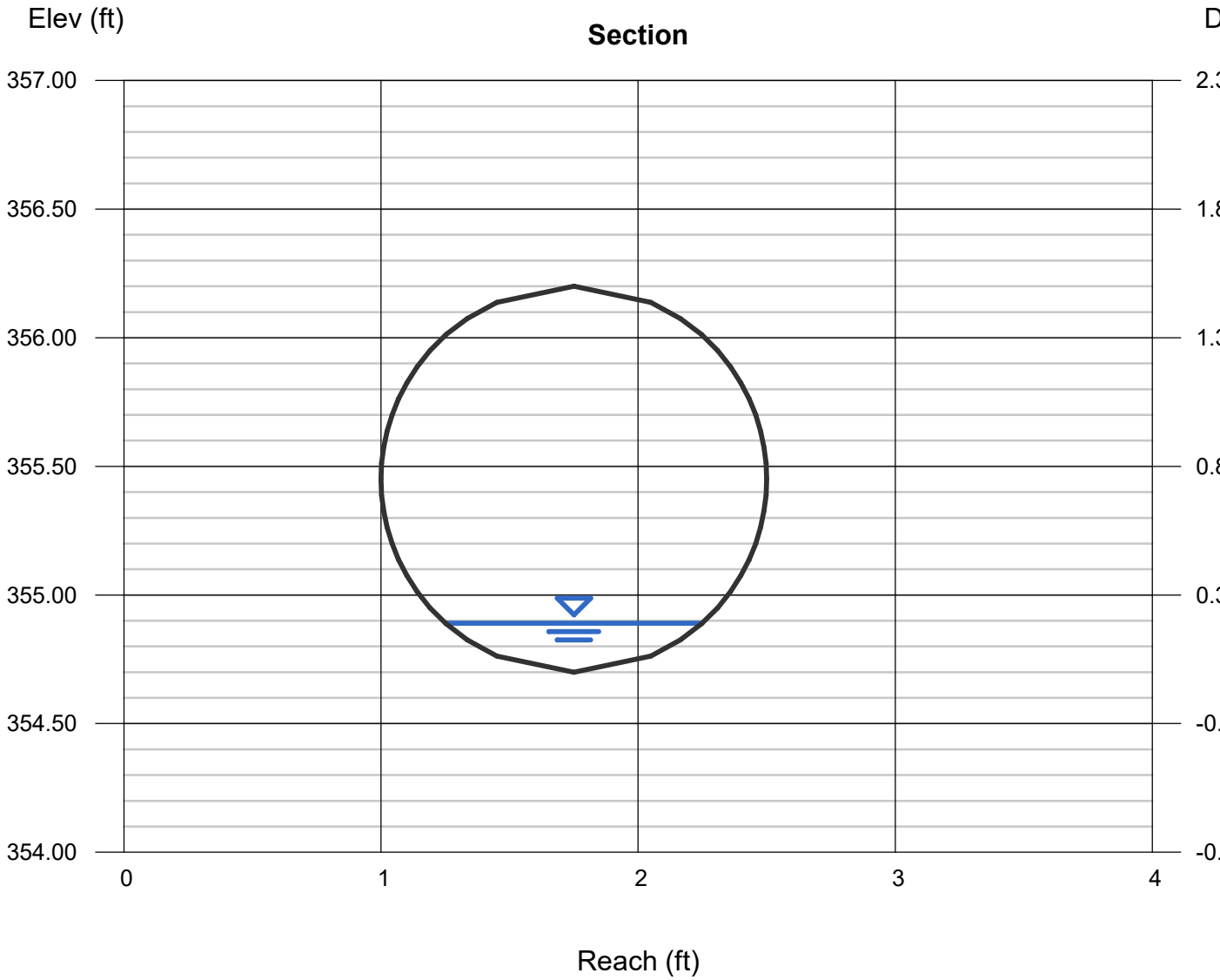
Diameter (ft)	=	1.50
Invert Elev (ft)	=	354.70
Slope (%)	=	5.91
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	0.72

Highlighted

Depth (ft)	=	0.19
Q (cfs)	=	0.720
Area (sqft)	=	0.13
Velocity (ft/s)	=	5.49
Wetted Perim (ft)	=	1.09
Crit Depth, Yc (ft)	=	0.32
Top Width (ft)	=	1.00
EGL (ft)	=	0.66



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C4 (25 YEAR)

Circular

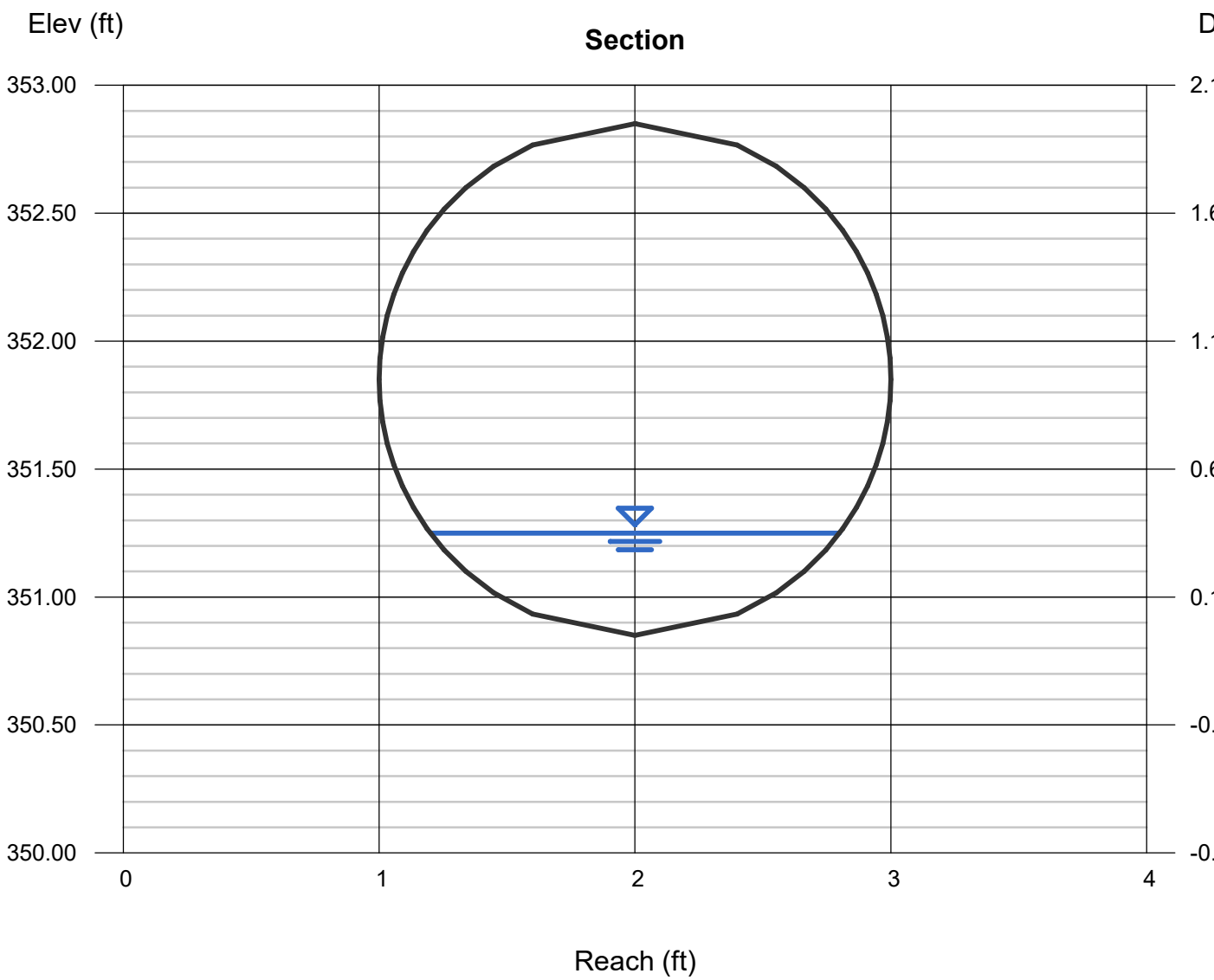
Diameter (ft)	=	2.00
Invert Elev (ft)	=	350.85
Slope (%)	=	2.91
N-Value	=	0.015

Calculations

Compute by:		Known Q
Known Q (cfs)	=	2.81

Highlighted

Depth (ft)	=	0.40
Q (cfs)	=	2.810
Area (sqft)	=	0.45
Velocity (ft/s)	=	6.23
Wetted Perim (ft)	=	1.86
Crit Depth, Yc (ft)	=	0.59
Top Width (ft)	=	1.60
EGL (ft)	=	1.00



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 9 2024

PIPE C5 (25 YEAR)

Circular

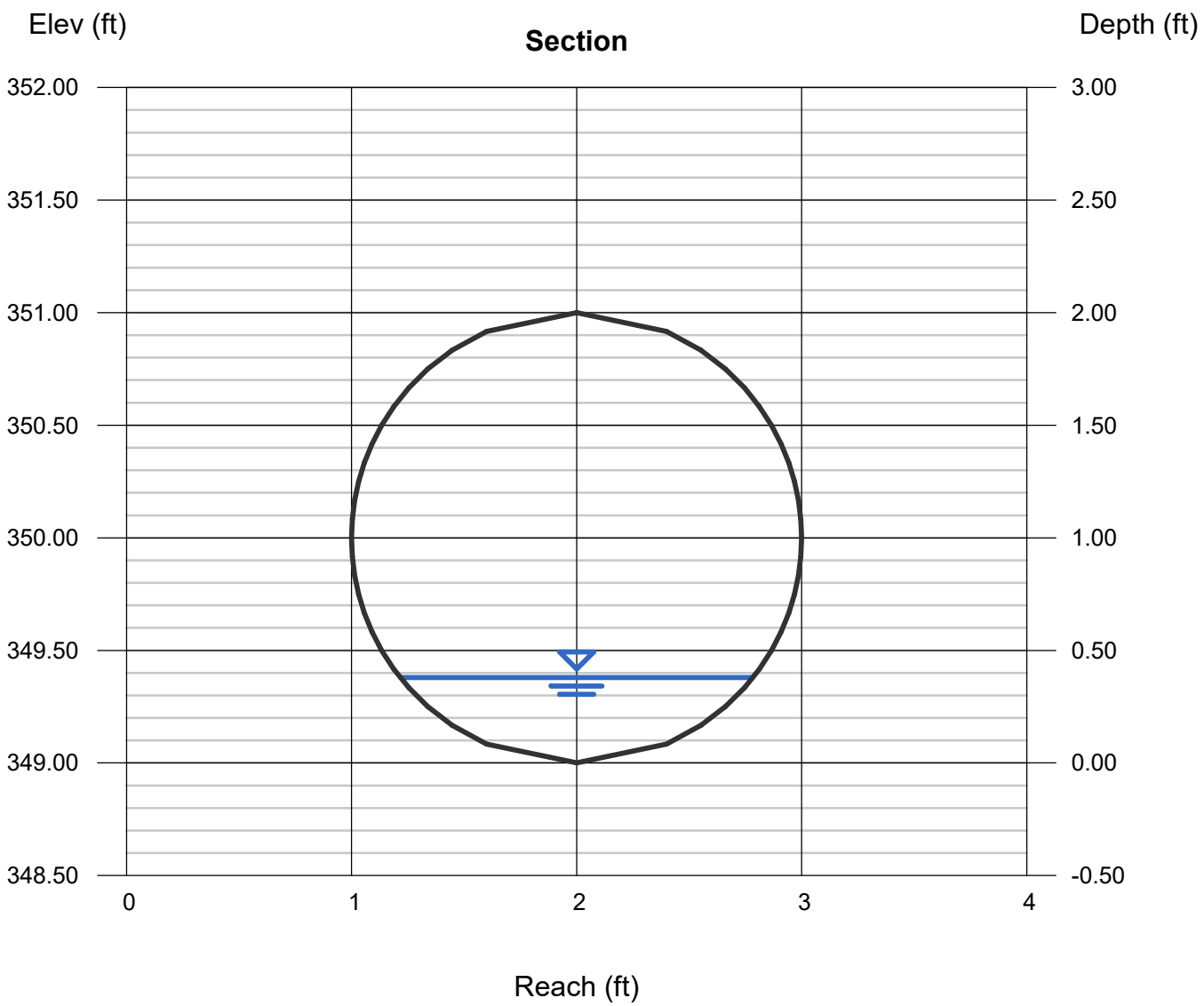
Diameter (ft)	= 2.00
Invert Elev (ft)	= 349.00
Slope (%)	= 7.25
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 4.05

Highlighted

Depth (ft)	= 0.38
Q (cfs)	= 4.050
Area (sqft)	= 0.42
Velocity (ft/s)	= 9.66
Wetted Perim (ft)	= 1.81
Crit Depth, Yc (ft)	= 0.71
Top Width (ft)	= 1.57
EGL (ft)	= 1.83



Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Wednesday, Oct 2 2024

PIPE D1 (25 YEAR)

Circular

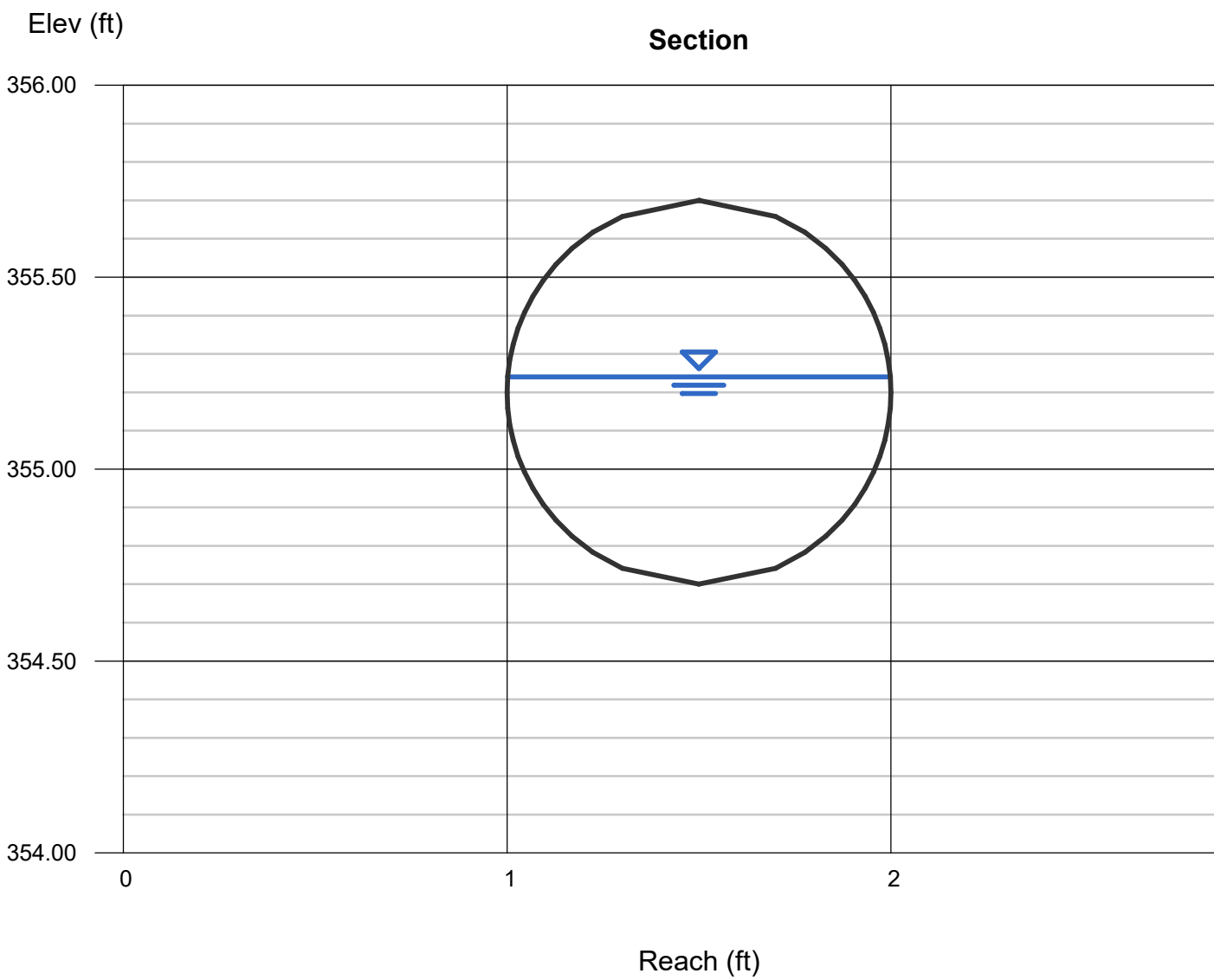
Diameter (ft)	= 1.00
Invert Elev (ft)	= 354.70
Slope (%)	= 1.00
N-Value	= 0.015

Calculations

Compute by:	Known Q
Known Q (cfs)	= 1.76

Highlighted

Depth (ft)	= 0.54
Q (cfs)	= 1.760
Area (sqft)	= 0.43
Velocity (ft/s)	= 4.05
Wetted Perim (ft)	= 1.65
Crit Depth, Yc (ft)	= 0.57
Top Width (ft)	= 1.00
EGL (ft)	= 0.79



DRAINAGE BASIN MAPS

PRE DRAINAGE MAP

SCALE 1" = 50'

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

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 9540

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
PRE DRAINAGE MAP

SHEET NUMBER:
C1.11

N

0 50'
1" = 50'-0"

POST DRAINAGE MAP

SCALE 1" = 50'

GENERAL SITE NOTES

1. TOTAL NEW DEVELOPMENT AREA = (+/-) 1.12 ACRES
2. PROPERTY IS ZONED C-2
3. 43 PARKING SPACES PROVIDED INCLUDING 2 ADA ACCESSIBLE PARKING SPACES
4. ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
5. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
6. REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
7. ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

N

0 50'

1" = 50'-0"

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

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

STATE OF ARKANSAS
RENDER PROFESSIONAL ENGINEER
No. 2025.0540
PHILLIP LEWIS

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
POST DRAINAGE MAP

SHEET NUMBER:
C1.12

SOIL CLASSIFICATION MAPS

United States Department of Agriculture

Natural Resources Conservation Service

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

Custom Soil Resource Report for Saline County, Arkansas

August 30, 2024

Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

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

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

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

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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Saline County, Arkansas.....10
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22—Savannah fine sandy loam, 3 to 8 percent slopes..... 11
27—Smithdale loamy sand, 8 to 12 percent slopes.....12
29—Tiak silt loam, 3 to 8 percent slopes.....13
References.....15

Soil Map

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

Custom Soil Resource Report
Soil Map

Map Scale: 1:2,340 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 30 60 120 180

Feet: 0 100 200 400 600

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

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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

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

Map Unit Legend

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

Map Unit Descriptions

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

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

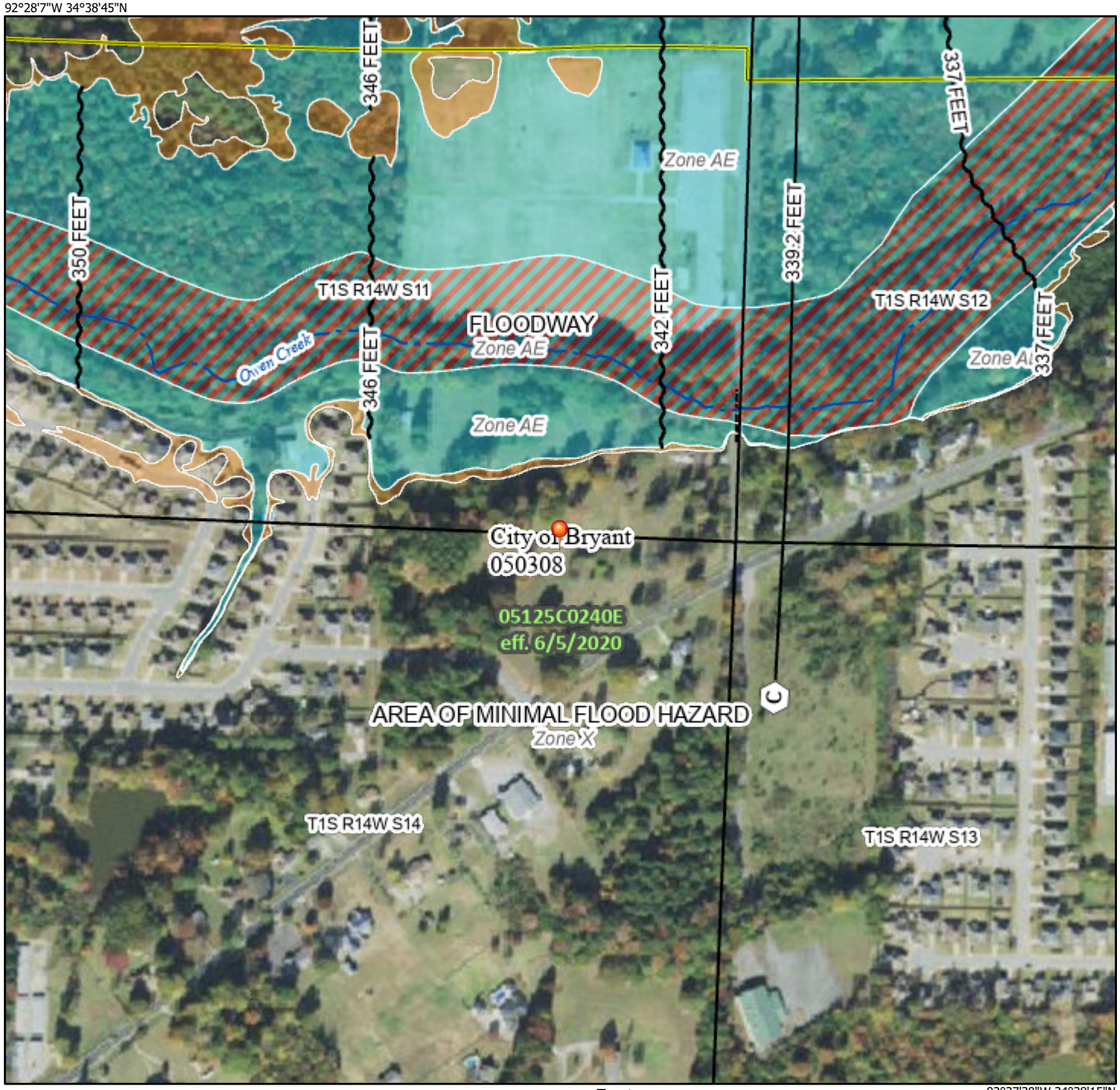
Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however,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

FEMA FLOOD INSURANCE RATE MAP

National Flood Hazard Layer FIRMette

FEMA

92°28'7"W 34°38'45"N



92°27'30"W 34°38'15"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/9/2024 at 5:29 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

GAS METER	
WATER METER	
GUY WIRE	
POWER/UTILITY POLE	
TELEPHONE PEDESTAL	
SEWER MANHOLE	
WATER VALVE	
FIRE HYDRANT	
SIGNS	
LIGHT POLE	
TELEPHONE MANHOLE	
SS	SANITARY SEWER LINE
W	WATER LINE
	STORM SEWER PIPE
	ROADWAY CENTERLINE
	UTILITY EASEMENT
	BUILDING SETBACK LINE
R/W	ROADWAY RIGHT-OF-WAY
OHE	OVERHEAD ELECTRIC LINES
UGT	UNDERGROUND TELEPHONE
G	UNDERGROUND GAS
F.O.	UNDERGROUND FIBER OPTIC

	STORM DRAIN MANHOLE
	SEWER CLEANOUT
N	NORTH
S	SOUTH
E	EAST
W	WEST
(M)	AS MEASURED
(D)	PER DEED
(R)	RECORDED
R/W	RIGHT-OF-WAY
L.A.	LANDSCAPED AREA
CR4	CAPPED 1/2" REBAR
CONC.	CONCRETE
P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
ESMT	EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE
SUBD	SUBDIVISION
FDC	FIRE DEPARTMENT CONNECTION
CPS	COTTON PICKER SPINDLE
P5	5/8" PIPE

	ASPHALT
	CONCRETE
	SET 1/2" REBAR w/ CAP #1853
	SET COTTON-PICKER SPINDLE
	FOUND MONUMENT (DESC. NOTED)
	COMPUTED CORNER (NOT SET)
	CORRESPONDS TO DRAWING NOTE

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C1.1	OVERALL SITE PLAN
C1.2	SITE PLAN
C1.3	SITE DETAILS
C1.4	GRADING PLAN
C1.5	STORM SEWER PLAN
C1.6	STORM SEWER PROFILE
C1.7	UTILITY PLAN
C1.8	SANITARY SEWER PROFILE
C1.9	UTILITY DETAILS
C1.10	UTILITY DETAILS
C1.11	PRE DRAINAGE MAP
C1.12	POST DRAINAGE MAP
C1.13	LANDSCAPE PLAN
C1.14	STORM WATER POLLUTION PREVENTION PLAN
C1.15	SWPPP DETAILS
AA-1	3D VIEWS -ISO
AA-2	3D VIEWS
AA-3	3D VIEWS
AA-4	3D VIEWS-INTERIOR
AA-5	FLOOR PLAN- FURNITURE
AA-6	EXTERIOR ELEVATIONS
AA-7	EXTERIOR ELEVATIONS
AA-8	EXTERIOR ELEVATIONS

Vicinity Map

SCALE 1" = 1000'

BRYANT SEMINARY

HIGHWAY 5
BRYANT, AR

GENERAL CONSTRUCTION NOTES

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

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

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

D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

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

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

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

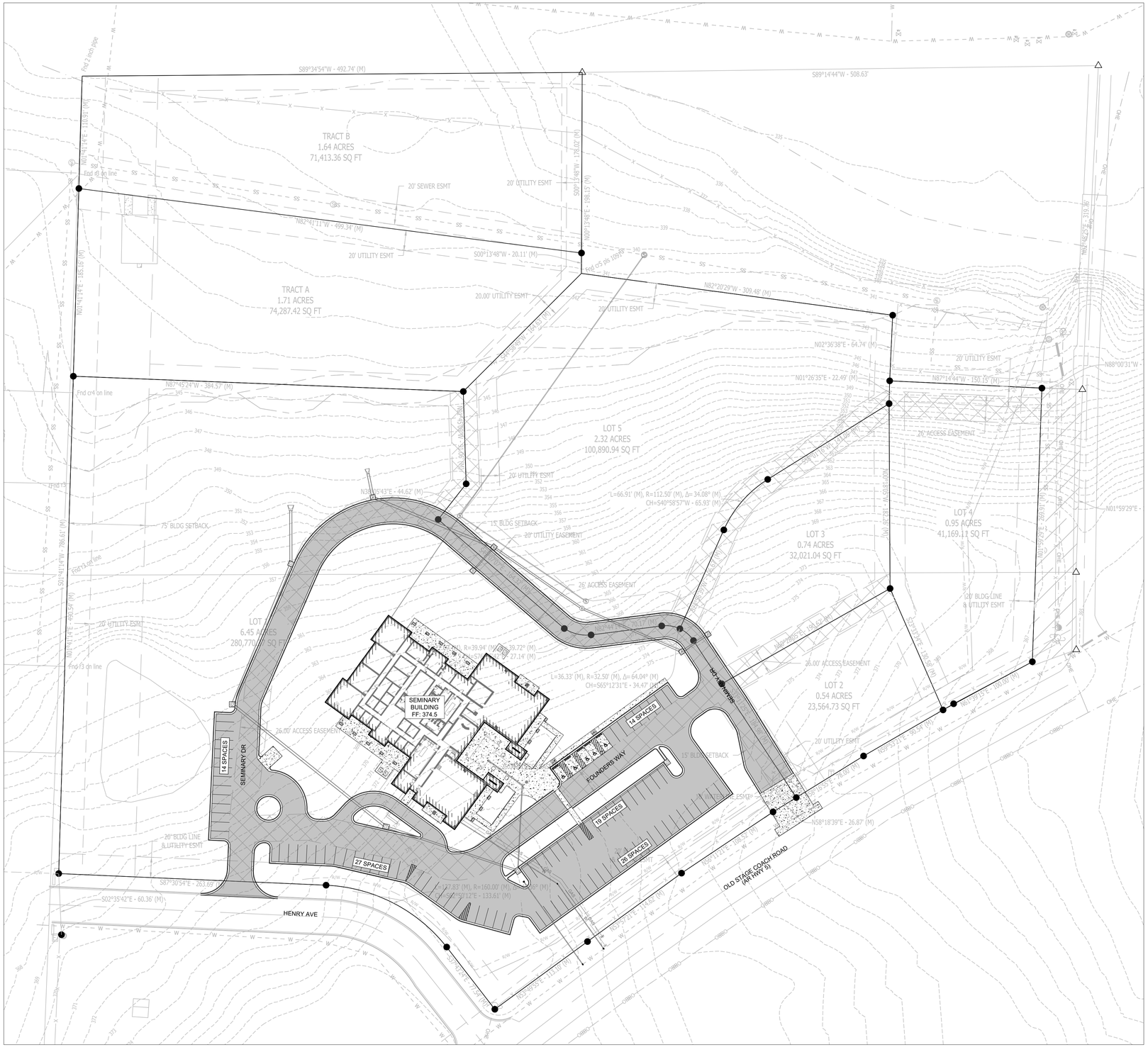
H. CONSTRUCTION SHALL NOT START ON ANY WATER UTILITY TIE-INS UNTIL APPROVAL IS GIVEN BY THE LOCAL UTILITY PROVIDER. SAID CONTRACTOR SHALL NOT OPERATE ANY VALVE, HYDRANT, OR WATER UTILITY APPURTENANCE NOR SHALL HE ATTACH TO OR TAP ANY WATER UTILITY MAIN WITHOUT APPROVAL. THE CONTRACTOR SHALL BEAR THE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

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

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

DEVIATIONS/VARIANCES

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



SITE LAYOUT PLAN

SCALE 1" = 50'

GENERAL CONSTRUCTION NOTES

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

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

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

D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

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

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

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Structural + Civil Consultants
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REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS—ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 2009.0540

PROJECT NUMBER:

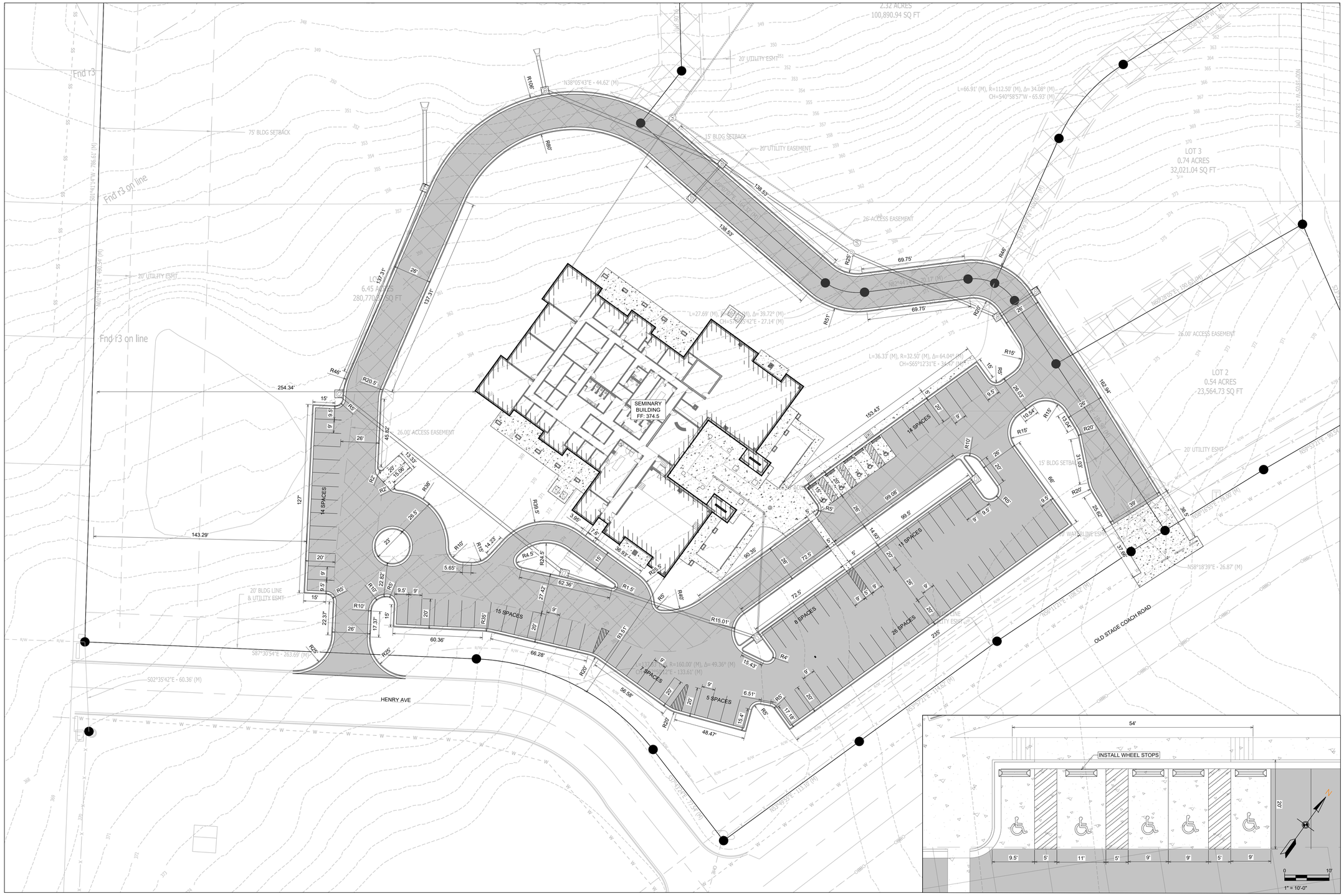
SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C1.1

N

0 50'
1" = 50'-0"



SITE PLAN

SCALE 1" = 30'

ADA PARKING STALLS

SCALE 1" = 10'

GENERAL SITE NOTES

1. TOTAL NEW DEVELOPMENT AREA = (+/-) 4.96 ACRES
2. PROPERTY IS ZONED C-2
3. 100 PARKING SPACES PROVIDED INCLUDING 5 ADA ACCESSIBLE PARKING SPACES
4. ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
5. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
6. REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
7. ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

N

0 30'

1" = 30'-0"

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BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

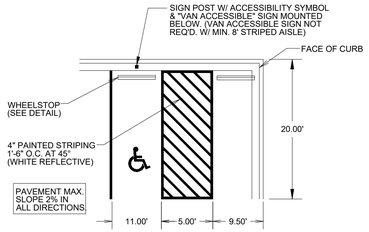
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 2540

PROJECT NUMBER:

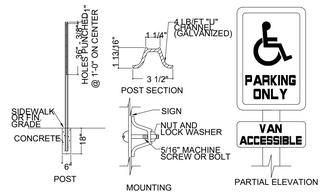
SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
SITE PLAN

SHEET NUMBER:
C1.2



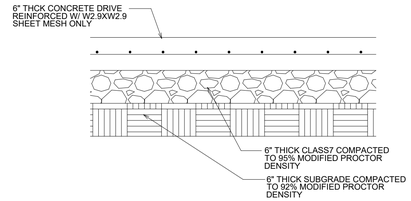
TYPICAL ACCESSIBLE PARKING STALLS



HANDICAP SIGN DETAIL

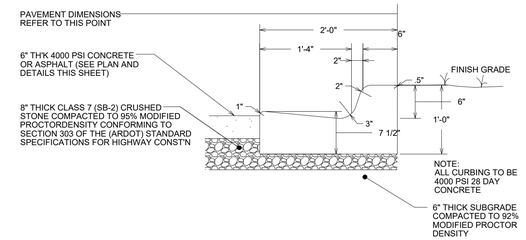
NOT TO SCALE

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



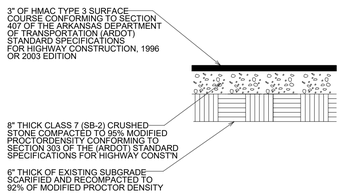
CONCRETE DRIVE SECTION

NOT TO SCALE



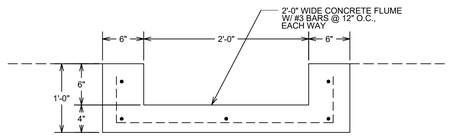
2'-0" CONCRETE CURB & GUTTER

NOT TO SCALE



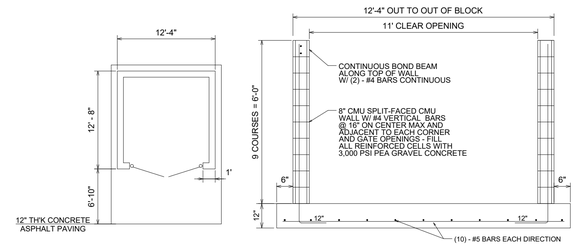
HMAC ASPHALT SURFACE COURSE

NOT TO SCALE



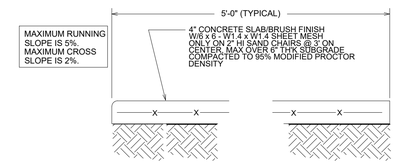
CONCRETE FLUME DETAIL

NOT TO SCALE



DUMPSTER PAD/ENCLOSURE DETAIL

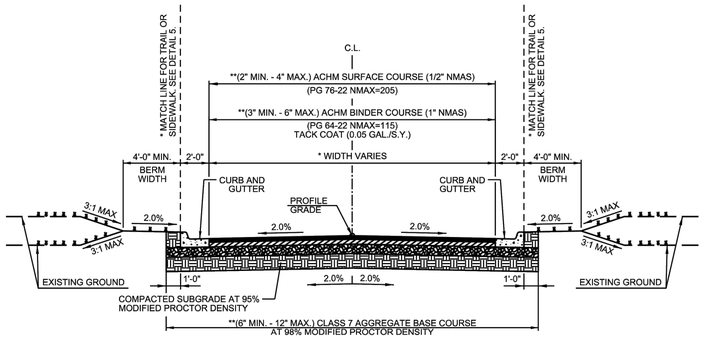
NOT TO SCALE

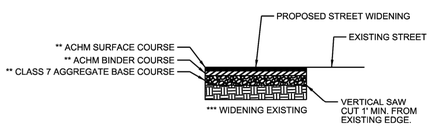


CONCRETE WALK SECTION

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.





GENERAL NOTES

1. IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM MODIFIED DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT.
2. FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO DENSITY OF 90% MAXIMUM MODIFIED DENSITY.
3. CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.
4. ACHM BASE COURSE (4" MIN. - 12" MAX) (1 1/2" NMAS) MAY BE USED IF INCLUDED IN AN APPROVED PAVEMENT DESIGN.

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

** THICKNESS TO BE DETERMINED BY PAVEMENT DESIGN IN ACCORDANCE WITH SECTION 5.0 OF THE MINIMUM STANDARD SPECIFICATIONS FOR STREETS.

*** PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE STANDARDS.

CITY OF BRYANT

TYPICAL SECTION MINOR ARTERIAL

DETAIL 1

ISSUE DATE
AUGUST 2021

REVISION DATE

PHILLIP LEWIS ENGINEERING, INC.
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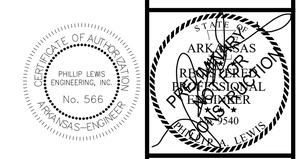
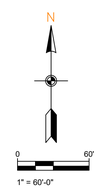
PH: 501-350-9840

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS



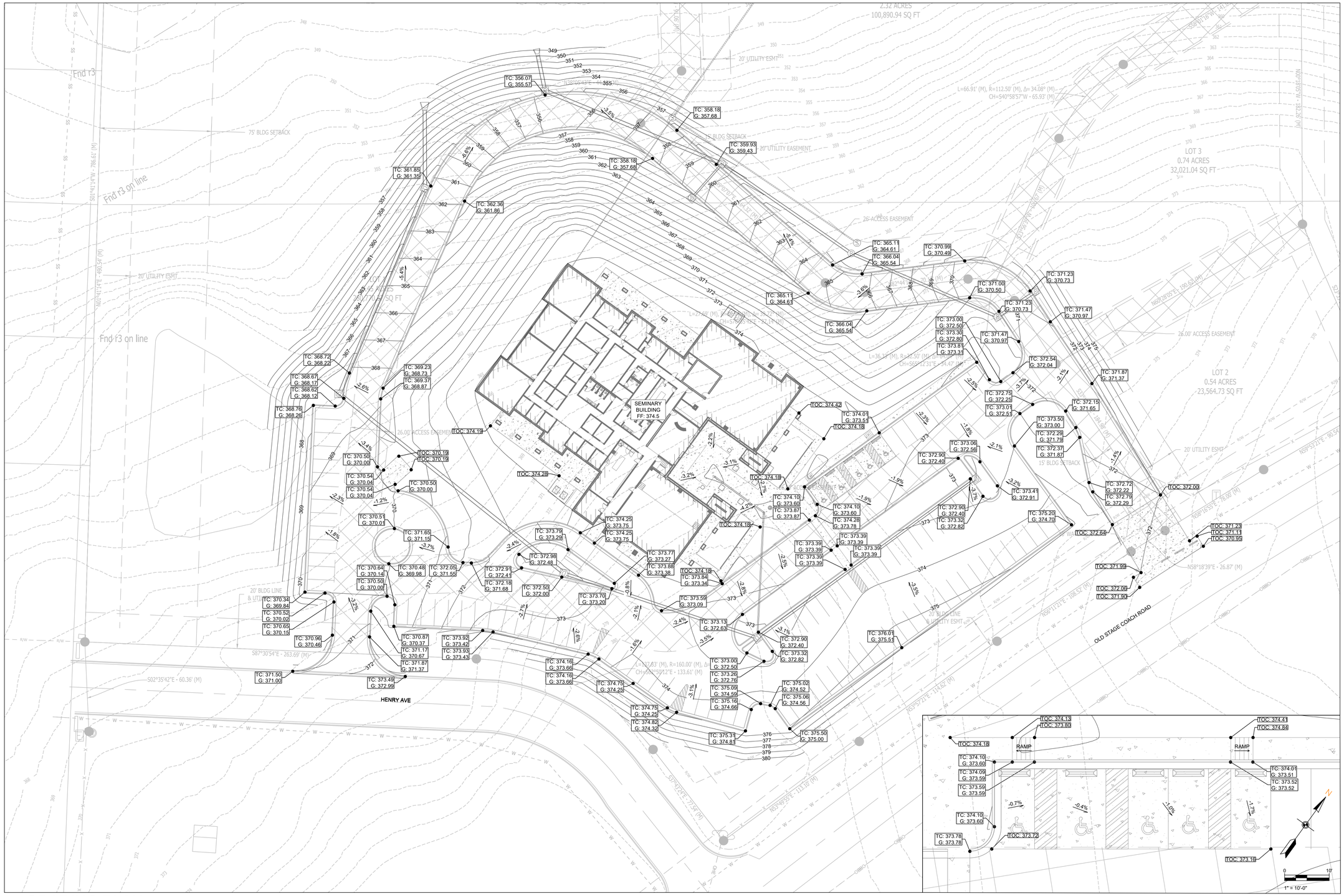


PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
SITE DETAILS

SHEET NUMBER:
C1.3



GRADING PLAN

SCALE 1" = 30'

ADA PARKING STALLS

SCALE 1" = 10'

TC = TOP OF CURB ELEVATION
G = GUTTER ELEVATION
TOC = TOP OF CONCRETE ELEVATION
FG = FINAL GRADE ELEVATION
TP = TOP OF PAVEMENT ELEVATION
EG = EXISTING GRADE ELEVATION

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PH: 501-350-9840

REVISION:

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HIGHWAY 5
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

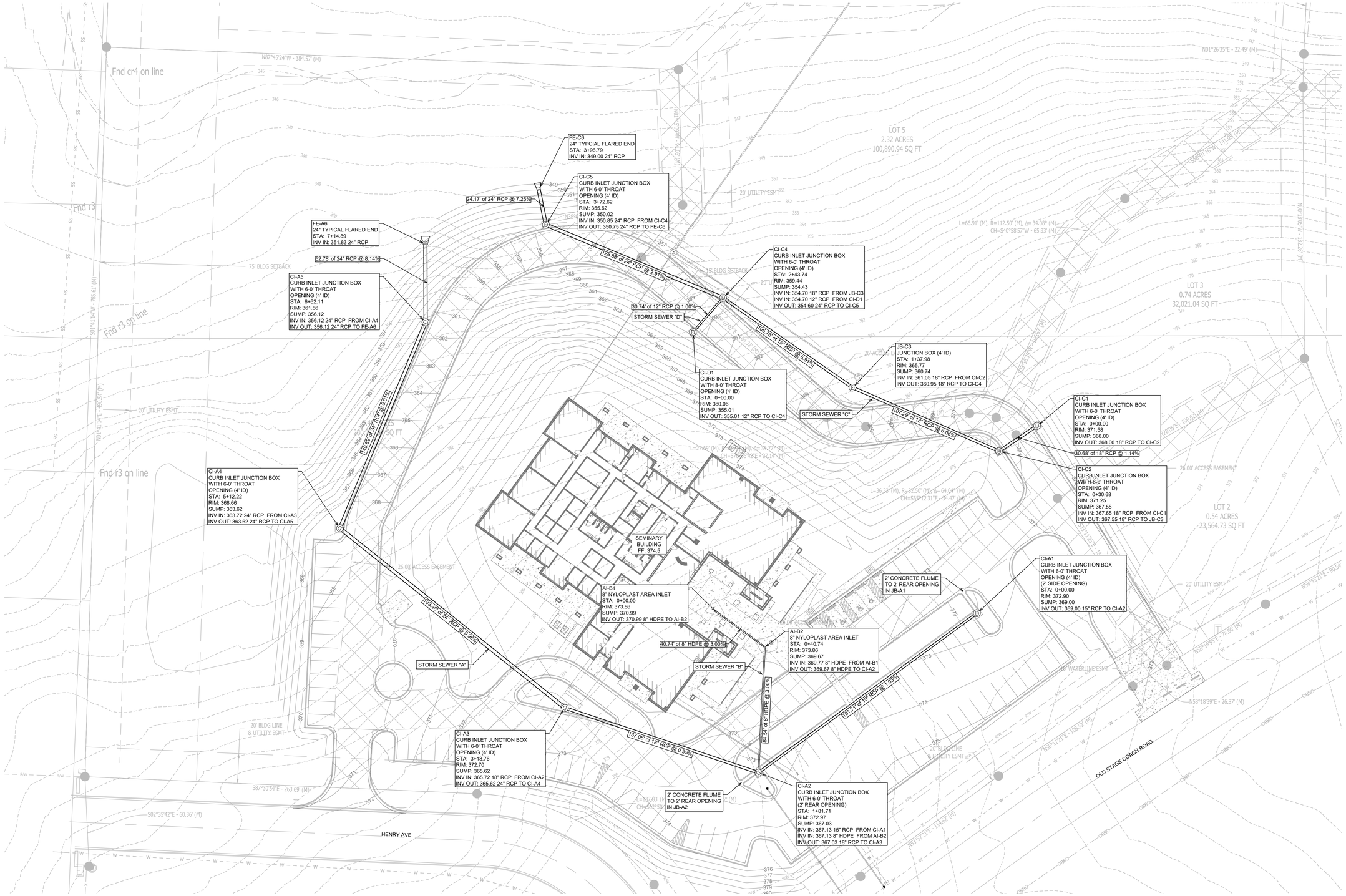
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 2540

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
GRADING PLAN

SHEET NUMBER:
C1.4



STORM SEWER PLAN

SCALE 1" = 30'

N

0 30'

1" = 30'-0"

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ARKANSAS-ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13540
PHILLIP A. LEWIS

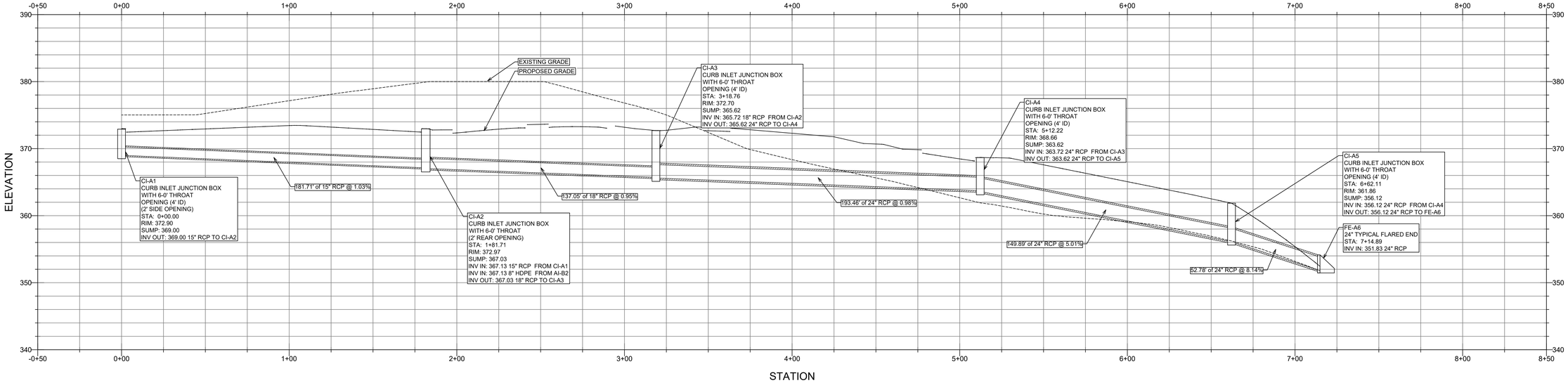
PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

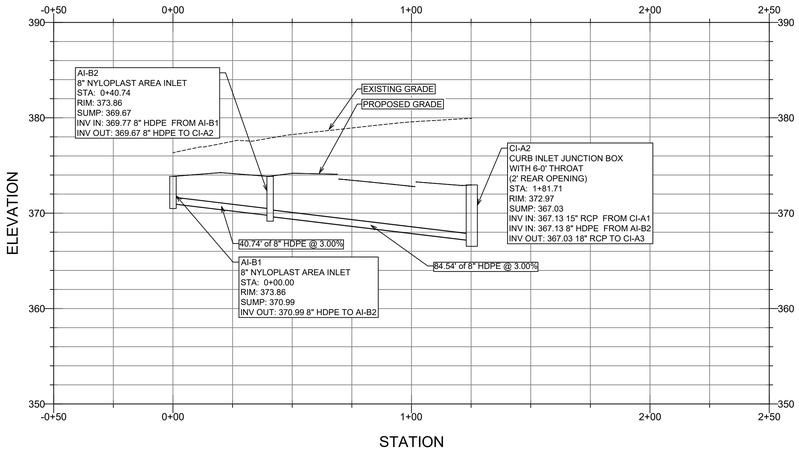
PAGE TITLE:
STORM SEWER PLAN

SHEET NUMBER:
C1.5

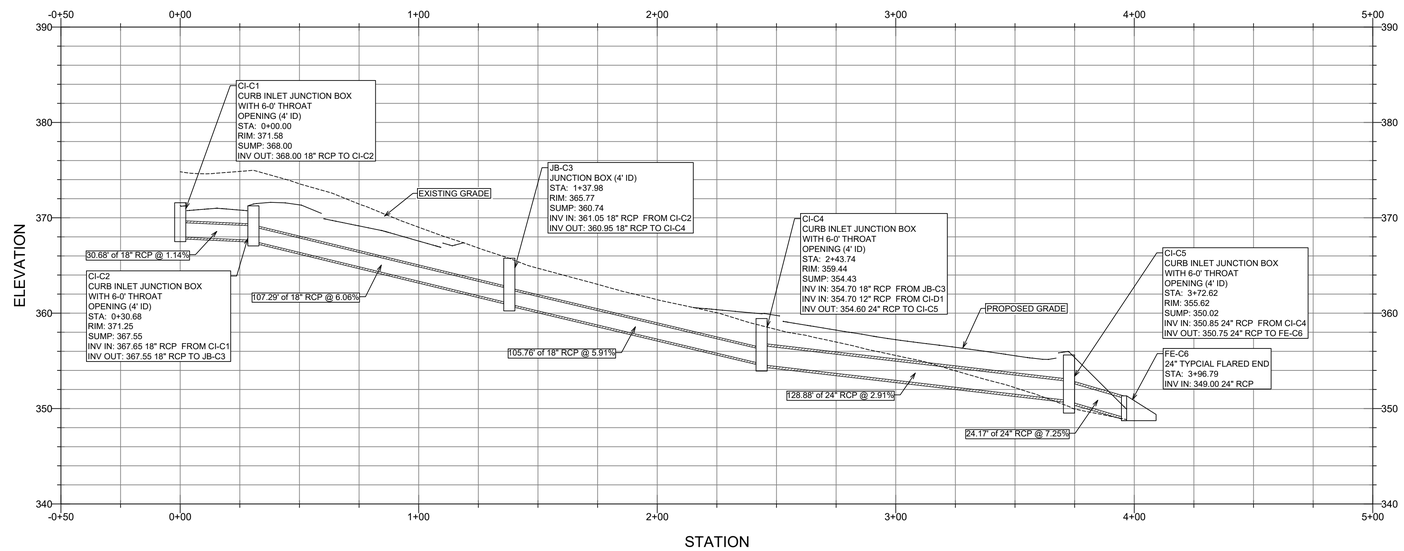
STORM SEWER A



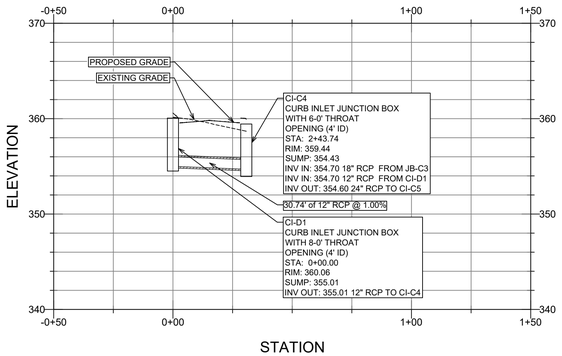
STORM SEWER B



STORM SEWER C



STORM SEWER D



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BRYANT, ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9540 PHILLIP A. LEWIS

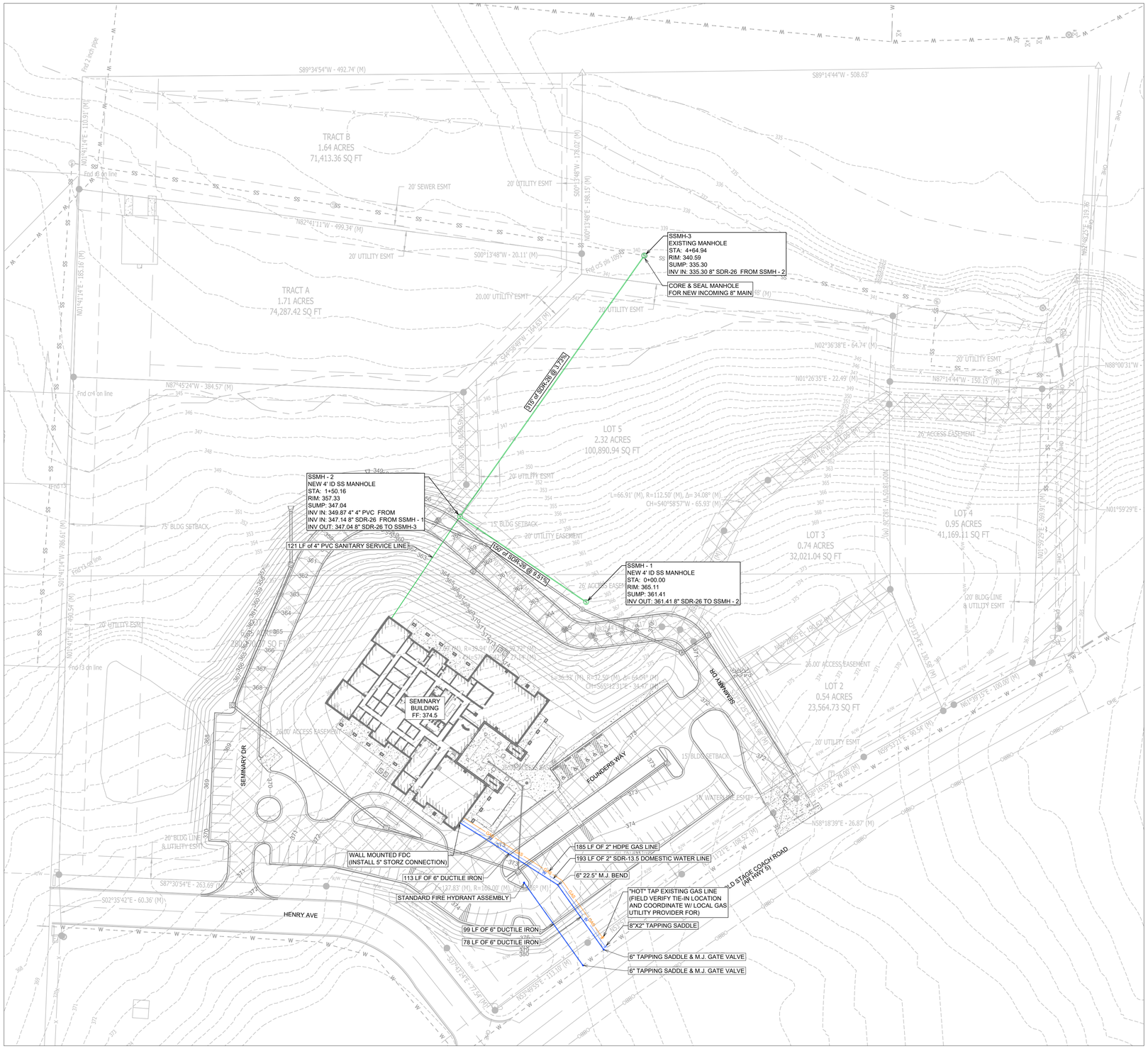
CERTIFICATE OF AUTHORIZATION PHILLIP LEWIS ENGINEERING, INC. No. 566 ARKANSAS ENGINEER

PROJECT NUMBER:

SHEET ISSUE DATE: 10-09-2024

PAGE TITLE: STORM SEWER PROFILES

SHEET NUMBER: C1.6



UTILITY PLAN

SCALE 1" = 50'

GENERAL CONSTRUCTION NOTES

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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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D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

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

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REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

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ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 9540

N

0 50'
1" = 50'-0"

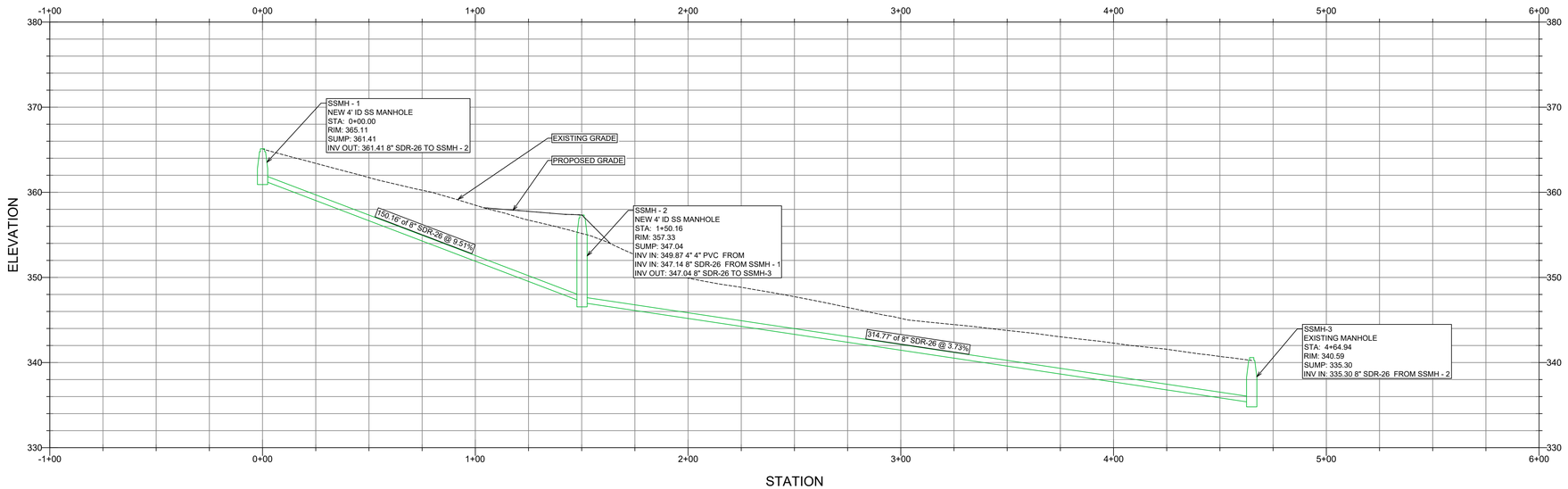
PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
UTILITY PLAN

SHEET NUMBER:
C1.7

SANITARY SEWER



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

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS—ENGINEER

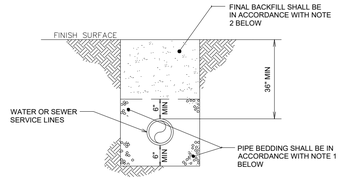
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9540
PHILLIP A. LEWIS

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
SANITARY SEWER PROFILE

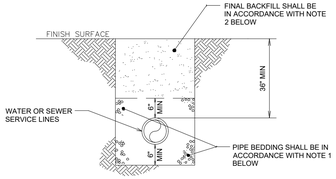
SHEET NUMBER:
C1.8



GAS LINE BEDDING DETAIL

NOT TO SCALE

NOTES:
1. BEDDING SHALL BE "GRIT" PER ASTM 2774 OR ASTM D448 SIZE 67 A MINIMUM OF 6" ALL AROUND PIPE.
1. BEDDING SHALL BE CLEAN SAND A MINIMUM OF 6" ALL AROUND PIPE.
2. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR. ALL BACKFILL UNDER PAVED AREAS SHALL BE CLASS 7 CRUSHED STONE (SB-2) COMPACTED TO 95% STANDARD PROCTOR DENSITY.
3. ALL MATERIALS CLASSIFIED IN ACCORDANCE WITH ASTM D2321-89.
4. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LIFTS IN ACCORDANCE WITH ASTM D698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED TO NEAR OPTIMUM MOISTURE CONTENT.
5. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS, AND ROCK LARGER THAN 3".
6. ALL TRENCH EXCAVATION SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.



WATER AND SEWER LINES BEDDING DETAIL

NOT TO SCALE

NOTES:
1. BEDDING SHALL BE "GRIT" PER ASTM 2774 OR ASTM D448 SIZE 67 A MINIMUM OF 6" ALL AROUND PIPE.
2. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR. ALL BACKFILL UNDER PAVED AREAS SHALL BE CLASS 7 CRUSHED STONE (SB-2) COMPACTED TO 95% STANDARD PROCTOR DENSITY.
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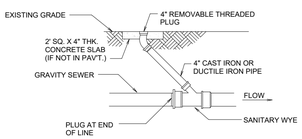
7. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

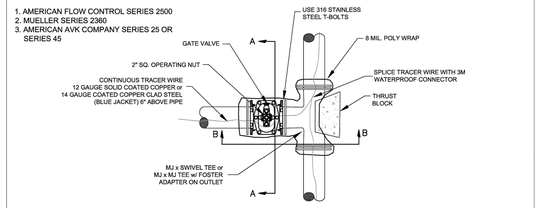


THROUGH FLOW CLEANOUT

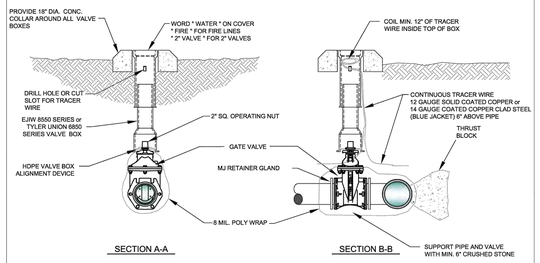
NOT TO SCALE

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45



PLAN



SECTION A-A

SECTION B-B

NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

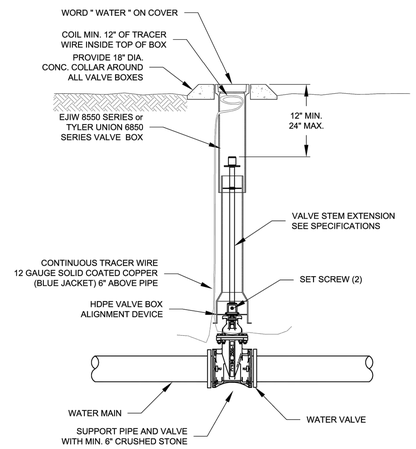
GATE VALVE DETAIL

2" - 12"

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **GATE VALVE**	REVISED ----	**W4**
	DRAWN BY: CHECKED BY: FILE: W4-Gate Valve.dwg	----	

NOTES:

1. OPERATING NUT EXTENSIONS SHALL BE USED WHEN THE TOP OF THE OPERATING NUT IS GREATER THAN 4 FEET FROM THE TOP OF FINISHED SURFACE.
2. THE STEM EXTENSION SHALL BE OF ADEQUATE LENGTH TO REACH FROM THE VALVE OPERATING NUT TO A POINT WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

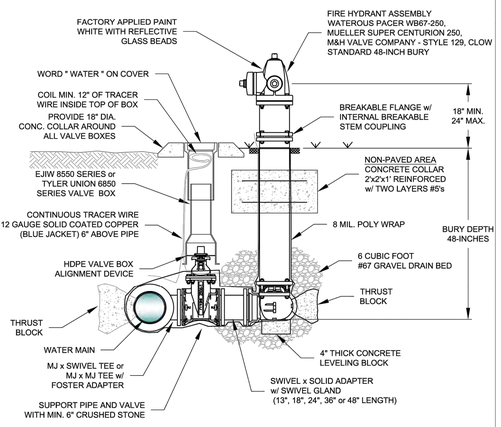


VALVE WITH STEM EXTENSION

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **VALVE STEM EXTENSION**	REVISED ----	**W7**
	DRAWN BY: CHECKED BY: FILE: W7-Valve Stem Extension.dwg	----	

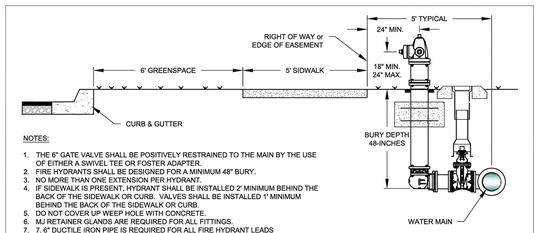
NOTES:

1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. BURY LINE OF HYDRANT SHALL BE NO LESS THAN THE PROPOSED FINISHED ELEVATION OF BACK OF CURB, OR SIDEWALK, WHICHEVER IS GREATER.
4. NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
8. 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
9. AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



FIRE HYDRANT & VALVE CONNECTION

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **FIRE HYDRANT AND VALVE CONNECTION**	REVISED ----	**W8**
	DRAWN BY: CHECKED BY: FILE: W8-Fire Hydrant and Valve.dwg	----	



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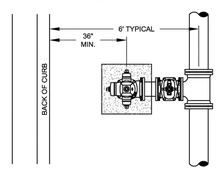
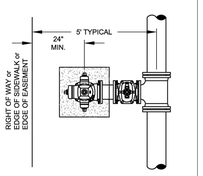
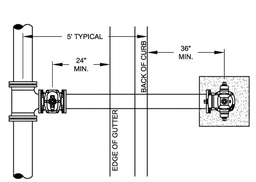


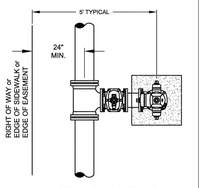
WATER LINE BEHIND CURB
INSIDE ROW



WATER LINE IN EASEMENT
OUTSIDE ROW

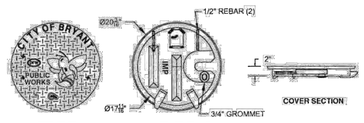


WATER LINE IN STREET
INSIDE ROW

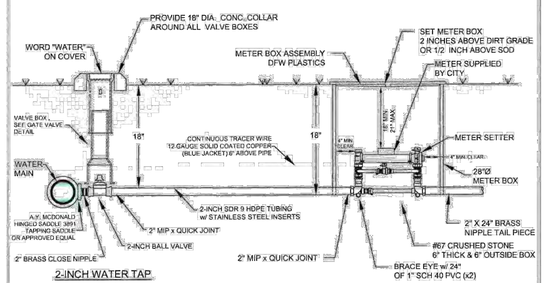


WATER LINE IN EASEMENT
OUTSIDE ROW

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **FIRE HYDRANT PLACEMENT**	REVISED ----	**W9**
	DRAWN BY: CHECKED BY: FILE: W9-Fire Hydrant Placement.dwg	----	



WATER METER LID



2-INCH WATER TAP

2-INCH METER SETTER

NOTES:

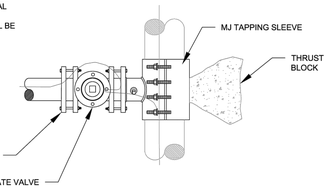
1. COORDINATE INSTALLATION AND CONFIGURATIONOF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY.
2. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
3. SUPPORT METER INSTALLATION WITH 1"x24" SCH40 PVC THROUGH EACH BRACE EYE.

2" WATER SERVICE AND WATER METER

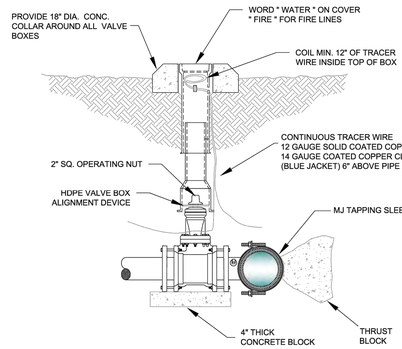
CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **2" WATER METER**	REVISED ----	**W12**
	DRAWN BY: CHECKED BY: FILE: W12-2 Inch Water Meter.dwg	----	

NOTES:

1. TAPPING SLEEVE SHALL BE SMITH-BLAIR 662 OR FORD FAST.
2. AFTER THE TAP IS MADE, RE-TORQUE BOLTS ON SLEEVE TO SEAL TO FINAL SHAPE OF PIPE.
3. TAPPING SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL POLY WRAP.

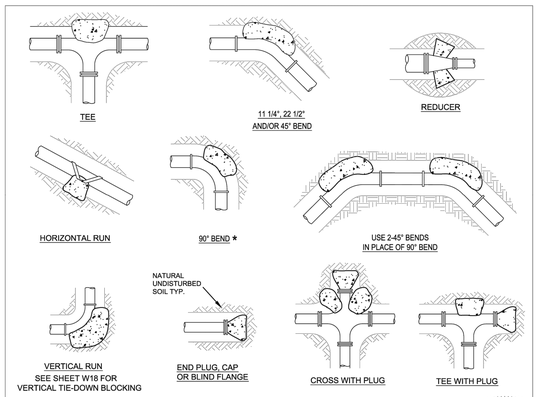


PLAN VIEW



PROFILE VIEW

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **TAPPING SLEEVE AND VALVE**	REVISED ----	**W13**
	DRAWN BY: CHECKED BY: FILE: W13-Topping Sleeve and Valve.dwg	----	



THRUST BLOCK SCHEDULE

(2000 PSF SOIL, 200 PSI WATER PRESSURE, 150 PSI WATER HAMMER)

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)						VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)							
FITTING SIZE	PLUG TEE OR CAP	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	FITTING SIZE	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	ROD DIAM.	EMBED MENT
2, 3, & 4	1.9	2.7	1.4	0.7	0.4	2, 3, & 4	30.5	19.2	9.8	4.9	0.5"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.6	7.4	3.8	1.9	8	181.8	98.5	50.2	25.2	.75"	30"
12	20.5	29.0	15.7	8.0	4.0	12	387.1	209.5	106.8	53.7	1.0"	30"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.0	185.6	93.2	1.0"	36"
18	44.8	63.4	34.3	17.5	18.8	18	844.7	457.2	233.1	117.1	1.0"	36"
24	78.4	110.9	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.5"	36"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LBS/F. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS**	DATE: APRIL 2015	SHEET:
	DESCRIPTION: **THRUST BLOCKING**	REVISED ----	**W16**
	DRAWN BY: CHECKED BY: FILE: W16-Thrust Blocking.dwg	----	

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Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

STATE OF ARKANSAS
PHILLIP LEWIS
No. 566
PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS-ENGINEER

PROJECT NUMBER:

SHEET ISSUE DATE: 10-09-2024

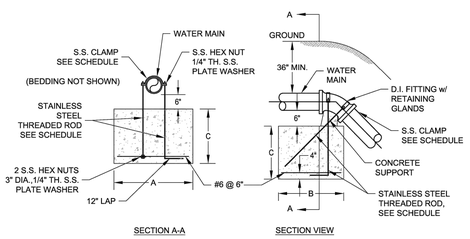
PAGE TITLE: UTILITY DETAILS

SHEET NUMBER: C1.9

BLOCKING SCHEDULE					
PIPE SIZE		BENDS			ROD DIA.
		45°	22 1/2°	11 1/4°	
8"	VOLUME REQ'D (CU. FT.)	98.5	50.2	25.2	3/4 IN.
	A (FT.)	5.00'	4.00'	3.00'	
	B (FT.)	4.00'	3.20'	2.80'	
	C (FT.)	5.00'	4.00'	3.00'	
	MIN. CLAMP (2 EA.)	3/8 IN. x 2 IN.			
12"	VOLUME REQ'D (CU. FT.)	209.5	106.8	53.7	3/4 IN.
	A (FT.)	6.00'	5.00'	4.00'	
	B (FT.)	6.00'	4.25'	3.50'	
	C (FT.)	6.00'	5.00'	4.00'	
	MIN. CLAMP (2 EA.)	1/2 IN. x 2 IN.			
18"	VOLUME REQ'D (CU. FT.)	457.2	233.1	117.1	1 IN.
	A (FT.)	8.00'	6.50'	5.00'	
	B (FT.)	7.25'	5.50'	4.75'	
	C (FT.)	8.00'	6.50'	5.00'	
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.			
24"	VOLUME REQ'D (CU. FT.)	800.3	408.0	205.0	1 1/4 IN.
	A (FT.)	9.50'	7.50'	6.00'	
	B (FT.)	9.00'	7.25'	5.75'	
	C (FT.)	9.50'	7.50'	6.00'	
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.			

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 250 PSI, 50 PSI SURGE AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

ALL FITTINGS SHALL BE MECHANICAL JOINTS WITH RETAINING GLANDS. BEDDING NOT SHOWN



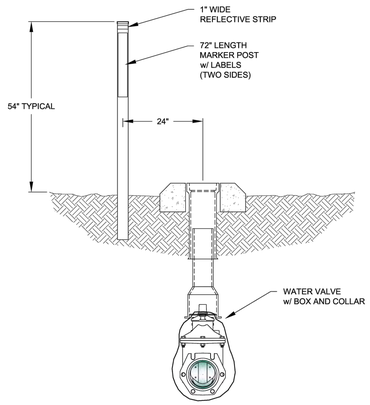
VERTICAL TIE-DOWN BLOCKING

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **VERTICAL TIE-DOWN BLOCKING**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **W17**
DRAWN BY: | CHECKED BY: | FILE: W17-Vertical Tie-Down Blocking.dwg

NOTES:

1. WATER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



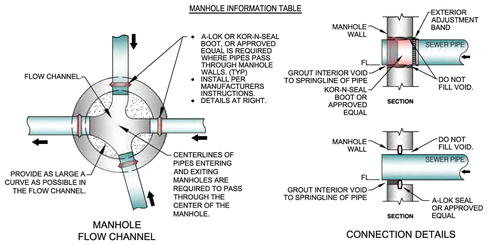
VALVE MARKER

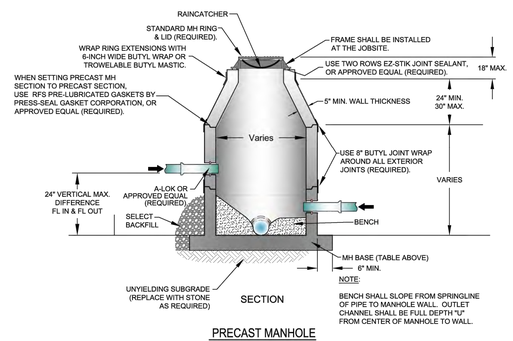
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **WATER DETAILS**
DESCRIPTION: **VALVE MARKER**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **W22**
DRAWN BY: | CHECKED BY: | FILE: W22-Valve Marker.dwg

Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	5"	6"	24" (< or Equal to 24" Pipes)
5' DIA	7"	8"	36" (> 24" Pipes)
6' DIA	7"	8"	

MANHOLE INFORMATION TABLE





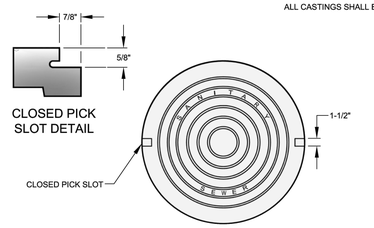
NOTE:
BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

PRECAST MANHOLE

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

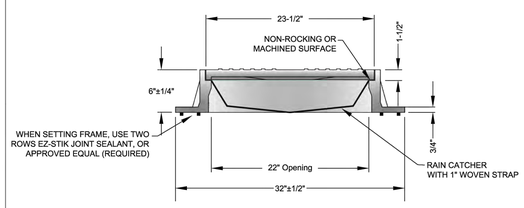
TITLE: **SEWER DETAILS**
DESCRIPTION: **PRECAST MANHOLE**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **S5**
DRAWN BY: | CHECKED BY: | FILE: S5-Precast Manhole.dwg

ALL CASTINGS SHALL BE "MADE IN USA"



1. MINIMUM WEIGHT OF RING: 100 POUNDS
2. MINIMUM WEIGHT OF COVER: 110 POUNDS
3. COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
4. CASTINGS SHALL BE "MADE IN USA"

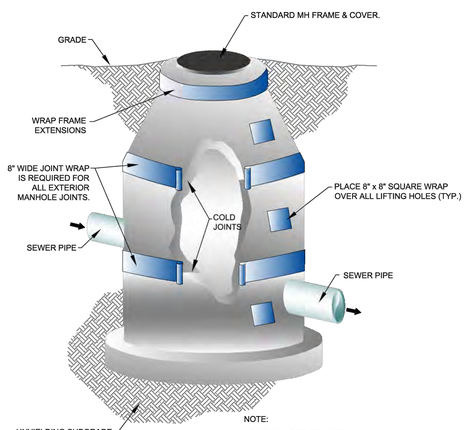
* DIMENSIONAL TOLERANCES SHALL NOT EXCEED 1/16 INCH PER FOOT



FRAME AND COVER DETAIL

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **MANHOLE FRAME AND COVER**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **S6**
DRAWN BY: | CHECKED BY: | FILE: S6-Manhole Frame and Cover.dwg



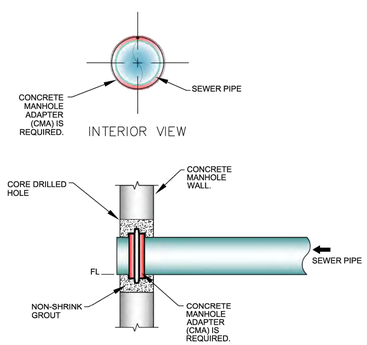
NOTE:
JOINT WRAP TO BE USED:
- ON OUTSIDE OF COLD JOINTS
- ON EXTERIOR OF ALL PRECAST MANHOLE JOINTS
- ON LIFT HOLES / SOCKETS

MANHOLE JOINT WRAP

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **MANHOLE JOINT WRAP**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **S9**
DRAWN BY: | CHECKED BY: | FILE: S9-Manhole Joint Wrap.dwg

THE INSTALLATION SHALL BE DYE TESTED FOR ACCEPTANCE.



MANHOLE CORING DETAILS

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **MANHOLE CORING**
DATE: APRIL 2015 | REVISED: ----- | SHEET: **S11**
DRAWN BY: | CHECKED BY: | FILE: S11-Manhole Coring.dwg

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PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS

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

REVISION:

BRYANT SEMINARY
HIGHWAY 5
BRYANT, ARKANSAS

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
UTILITY DETAILS

SHEET NUMBER:
C1.10

PRE DRAINAGE MAP

SCALE 1" = 50'

N

0 50'

1" = 50'-0"

CERTIFICATE OF AUTHORIZATION
PHILLIP LEWIS ENGINEERING, INC.
No. 566
ARKANSAS ENGINEER

STATE OF ARKANSAS
BRYANT 2
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 9540

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SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
PRE DRAINAGE MAP

SHEET NUMBER:
C1.11

POST DRAINAGE MAP

SCALE 1" = 50'

GENERAL SITE NOTES

1. TOTAL NEW DEVELOPMENT AREA = (+/-) 1.12 ACRES
2. PROPERTY IS ZONED C-2
3. 43 PARKING SPACES PROVIDED INCLUDING 2 ADA ACCESSIBLE PARKING SPACES
4. ALL DIMENSIONS ARE TO THE BACK OF CURB AND/OR EDGE OF PAVEMENT
5. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE THE RESPONSIBLE PARTY PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
6. REPAIR, REPLACE, OR EXTEND EXISTING DAMAGED OR MISSING CURB AND GUTTER, SIDEWALK OR RAMPS WITHIN THE PUBLIC RIGHT OF WAY.
7. ALL SIGNAGE, PAVEMENT MARKING AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

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No. 566
ARKANSAS ENGINEER

N

0 50'

1" = 50'-0"

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Structural + Civil Consultants
23620 Interstate 30 | Bryant, Arkansas
PH: 501-350-9840

REVISION:

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BRYANT, ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP LEWIS
No. 2009.0540

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
POST DRAINAGE MAP

SHEET NUMBER:
C1.12

LANDSCAPE PLAN

SCALE 1" = 30'

NOTES:

1. LANDSCAPED AREAS TO BE AMENDED WITH 4" OF TOPSOIL, SCARIFY SOIL 3" PRIOR TO APPLICATION. ALL TOP SOIL SHALL BE PLACED IN COORDINATION WITH GRADING AND DRAINAGE PLANS TO ENSURE THAT THE GRADING AND DRAINAGE DESIGN FOR THE SITE IS MAINTAINED AFTER BEING SODDED OR SEEDED. EXISTING SOIL FROM THE SITE CAN BE STOCK PILED AND REUSED AS LONG AS IT IS OF QUALITY THAT ENCOURAGES ADEQUATE GROWTH OF PLANTING MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL TESTING THAT MAY BE REQUIRED.
2. LANDSCAPE PLAN REPRESENTS RECOMMENDED SPECIES, SIZES, & LOCATIONS. OWNER SHALL CHANGE THE ITEMS TO EQUAL OR GREATER VALUE.

PLANT SCHEDULE

PLANT TYPE	SYMBOL	CODE	QTY	COMMON SPECIES	SCIENTIFIC NAME	CAL / SIZE
TREES		WO	15	WILLOW OAK	QUERCUS PHELLOS	MIN. 3" DIAMETER @ BASE AND 12' TALL
SHRUBS		BW	85	DWARF NANDINA	N. DOMESTICA "HARBOUR DWARF"	3 GAL
GROUND COVER		SO	61,425 SF	BERMUDA SOD		
		GS	36,022 SF	GRASS SEED		
			5,114 SF	LANDSCAPE BEDDING (TBD BY OWNER)		

N

0 30'

1" = 30'-0"

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PH: 501-350-9840

REVISION:

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HIGHWAY 5
BRYANT, ARKANSAS

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SHEET ISSUE DATE:
10-09-2024

PAGE TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
C1.13

STORM WATER POLLUTION PREVENTION PLAN

SCALE 1" = 50'

INSTALL FILTER SOCKS AT ALL INLETS; MAINTAIN THROUGHOUT CONSTRUCTION.

LEGEND

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

GENERAL CONSTRUCTION NOTES

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

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

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

D. ALL WATER AND SEWER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION TO THE LOCAL PROVIDER'S WATER AND WASTEWATER (SANITARY SEWER) STANDARD SPECIFICATIONS.

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

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

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

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

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

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

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

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CERTIFICATE OF AUTHORIZATION
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No. 566
ARKANSAS-ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP A. LEWIS
No. 9540

N

0 50'
1" = 50'-0"

PROJECT NUMBER:

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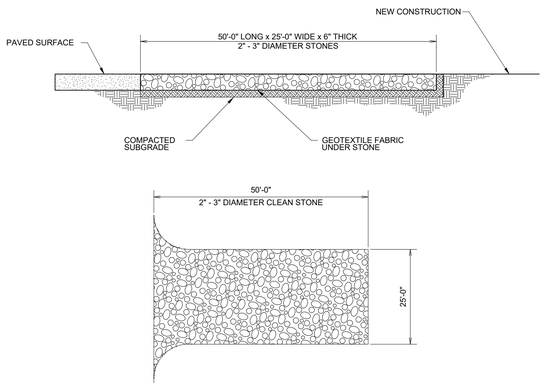
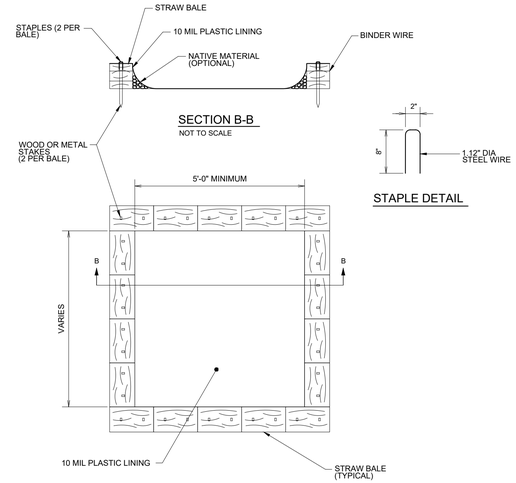
PAGE TITLE:
STORM WATER POLLUTION PREVENTION PLAN

SHEET NUMBER:
C1.14



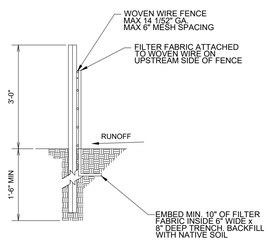
CONSTRUCTION ENTRANCE

NOT TO SCALE



CONCRETE WASHOUT

NOT TO SCALE



SILT FENCE

NOT TO SCALE

NOTES AND SPECIFICATIONS:

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

GENERAL CONSTRUCTION NOTES

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PHILLIP LEWIS ENGINEERING, INC.
Structural + Civil Consultants
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ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
PHILLIP A. LEWIS

N

0 50'
1" = 50'-0"

PROJECT NUMBER:

SHEET ISSUE DATE:
10-09-2024

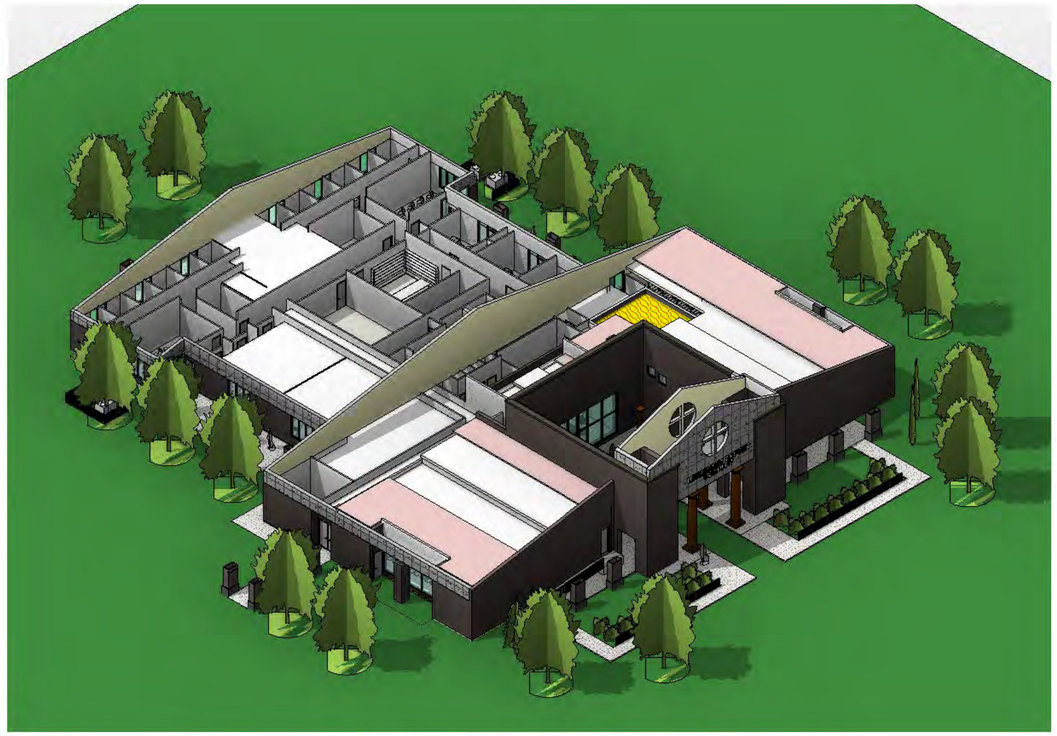
PAGE TITLE:
SWPPP DETAILS

SHEET NUMBER:
C1.15

1 3D-ISO-REAR-2

2 3D-ISO-FRONT-2

3 3D-ISO-NO ROOF



4 3D-ISO-NO ROOF -2

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REVISIONS	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

andrew hicks | architect

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Fayetteville, Arkansas 72701

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o - 479.332.5050
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ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
AR # 9
8/11/2024
ARKANSAS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY

BRYANT, ARKANSAS 72022

3D VIEWS -ISO

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-1

2 3DP-EXT-FRONT-2

3 3DP-EXT-COURT-4

8 3DP-EXT-FRONT-4

6 3DP-EXT-FRONT-3

1 3DP-EXT-FRONT-5

REVISIONS	DATE
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NO.	
NO.	
NO.	
NO.	

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AHA

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NO. C-2204
8/11/2024
ARKANSAS

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BRYANT, ARKANSAS 72022

3D VIEWS

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-2

2 3DP-EXT-REAR-2

1 3DP-EXT-COURT-1

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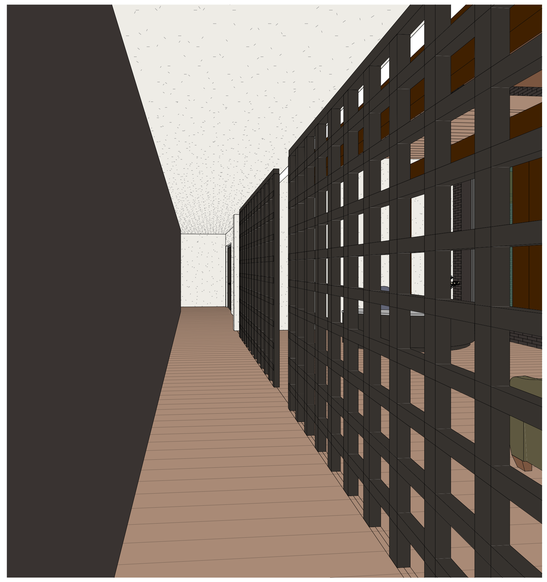

4 3DP-INT-LOBBY-1

REVISIONS	
NO.	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

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ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
NO. C-250
8/11/2024
ARKANSAS

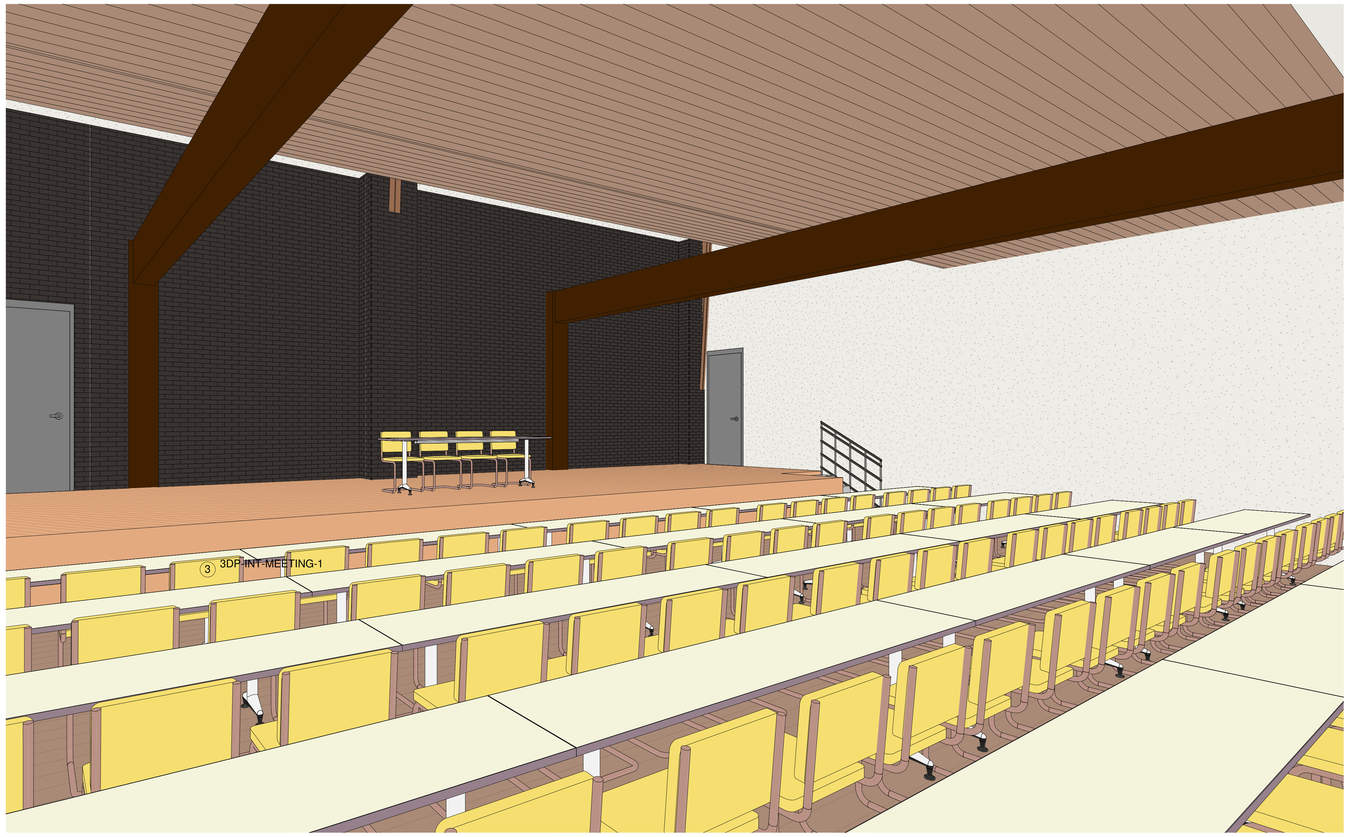
A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY
BRYANT, ARKANSAS 72022

3D VIEWS

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-3



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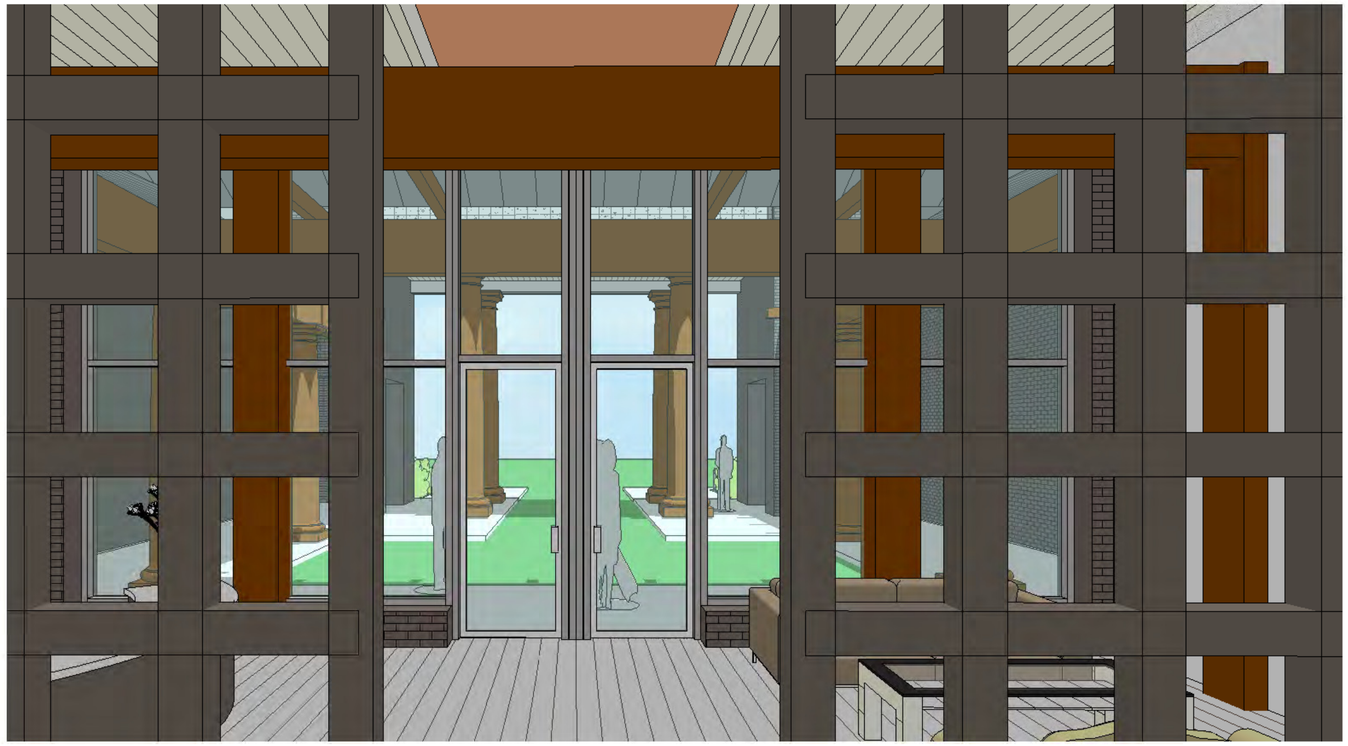
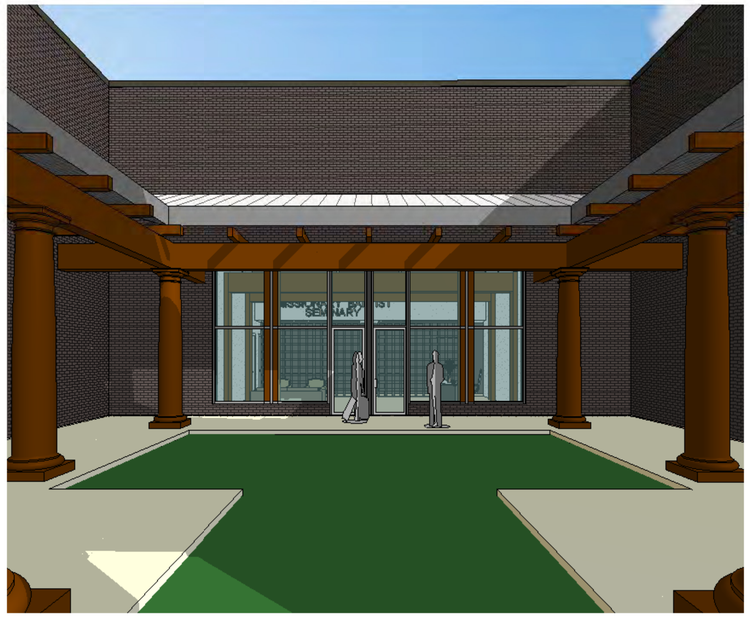
2 3DP-INT-LOBBY-2



1 3DP-INT-LOBBY-4



4 3DP-EXT-COURT-2

REVISIONS	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

andrew hicks | architect

600 N Mission Blvd
Fayetteville, Arkansas 72701

m - 501.680.0789
o - 479.332.5050
www.andrewhicksarchitect.com

ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
AR # 2-1024
8/11/2024
ARKANSAS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY
BRYANT, ARKANSAS 72022

3D VIEWS-INTERIOR

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

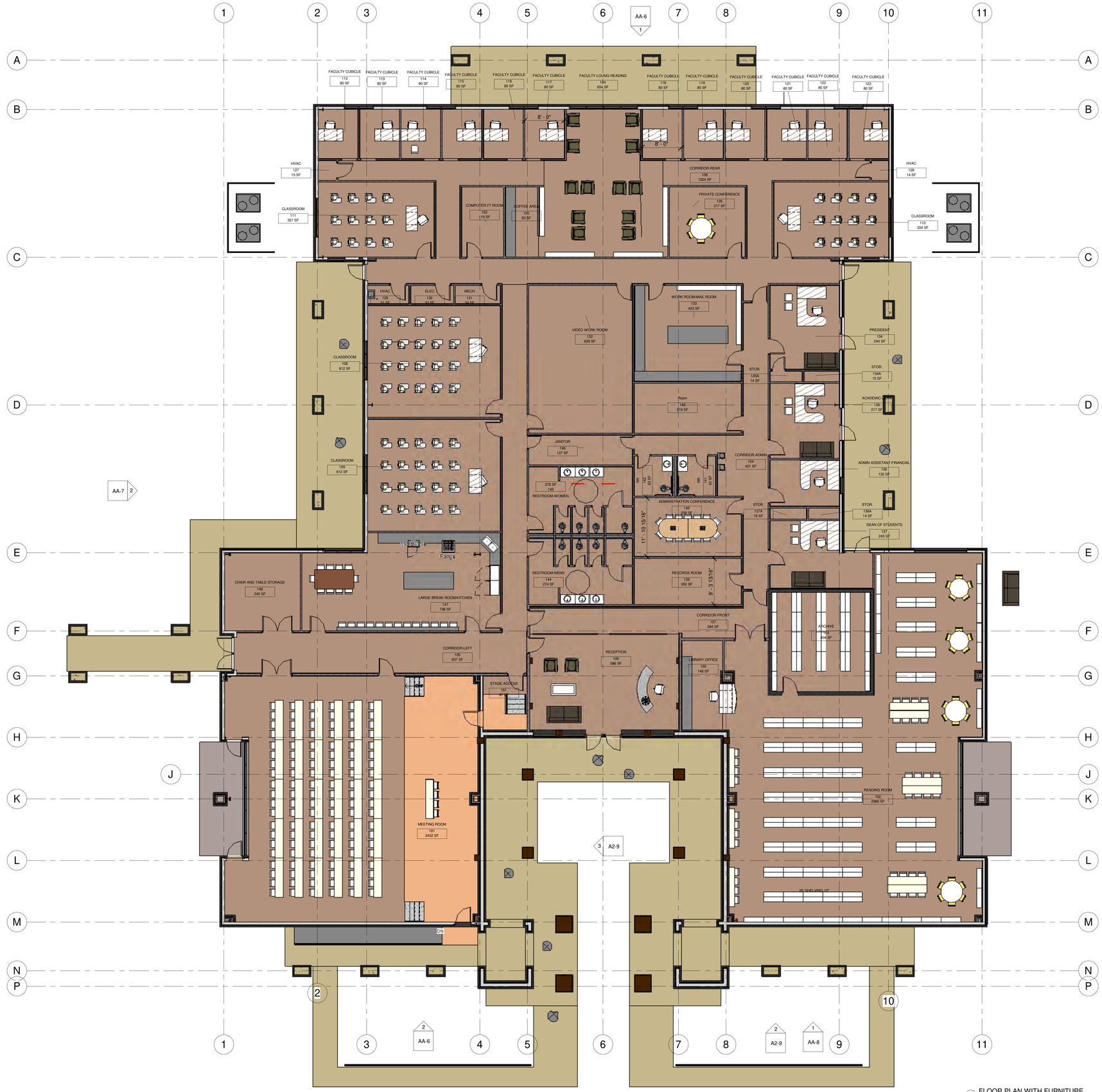
ISSUE DATE: 8/11/2024

AA-4

ROOM AREA SCHEDULE			
ROOM NO.	ROOM NAME	Area	COMMENTS
100	RECEPTION	586 SF	
101	MEETING ROOM	2432 SF	
102	READING ROOM	2966 SF	
103	ARCHIVE	404 SF	
104	CORRIDOR-ADMIN	421 SF	
105	CORRIDOR-LEFT	837 SF	
106	CORRIDOR-REAR	1024 SF	
107	CORRIDOR-FRONT	284 SF	
108	CLASSROOM	612 SF	
109	CLASSROOM	612 SF	
110	CLASSROOM	354 SF	
111	CLASSROOM	357 SF	
112	FACULTY CUBICLE	80 SF	
113	FACULTY CUBICLE	80 SF	
114	FACULTY CUBICLE	80 SF	
115	FACULTY CUBICLE	80 SF	
116	FACULTY CUBICLE	80 SF	
117	FACULTY CUBICLE	80 SF	
118	FACULTY CUBICLE	80 SF	
119	FACULTY CUBICLE	80 SF	
120	FACULTY CUBICLE	80 SF	
121	FACULTY CUBICLE	80 SF	
122	FACULTY CUBICLE	80 SF	
123	FACULTY CUBICLE	80 SF	
124	FACULTY-LOUNG-READING	654 SF	
125	COFFEE AREA	93 SF	
126	PRIVATE CONFERENCE	217 SF	
127	HVAC	15 SF	
128	HVAC	14 SF	
129	HVAC	31 SF	
130	ELEC	32 SF	
131	MECH	34 SF	
132	VIDEO WORK ROOM	629 SF	
133	WORK ROOM/MAIL ROOM	423 SF	
134	PRESIDENT	244 SF	
134A	STOR.	15 SF	
135	ACADEMIC DEAN	217 SF	
135A	STOR.	14 SF	
136	ADMIN ASSISTANT-FINANCIAL	132 SF	
136A	STOR.	14 SF	
137	DEAN OF STUDENTS	243 SF	
137A	STOR.	16 SF	
139	RECORDS ROOM	202 SF	
140	ADMINISTRATION CONFERENCE	259 SF	
141	RR	62 SF	
142	RR	62 SF	
143	Room	219 SF	
144	RESTROOM-MENS	274 SF	
145	RESTROOM-WOMEN	278 SF	
146	JANITOR	127 SF	
147	LARGE BREAK ROOM/KITCHEN	746 SF	
148	CHAIR AND TABLE STORAGE	242 SF	
150	LIBRARY OFFICE	148 SF	
151	STAGE ACCESS	97 SF	
152	COMPUTER I/T ROOM	119 SF	
Grand total: 55			

COMPARITIVE NUMBERS

TOTAL NEW BUILDING AREA	= 19,382 SF	APROXIMATE EXISTING BUILDING	=25,900 SF
NEW LIBRARY	= 2,966 SF	EXISTING LIBRARY	= 2,790 SF
NEW ARCHIVE	= 404 SF	EXISTING ARCHIVE	= 300 SF
NEW SHELVING	= 512 LIN FT	EXISTING SHELVES	= 464 LIN FT
NEW FACULTY LOUNGE	= 654 SF	EXISTING FACULTY LOUNGE	= 504 SF
NEW WORK ROOM	= 423 SF	EXISTING WORK ROOM	= 414 SF



1 FLOOR PLAN WITH FURNITURE
1/8" = 1'-0"

8/11/2024

ARCHITECT OF RECORD
ANDREW F. HICKS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY

BRYANT, ARKANSAS 72022

andrew hicks | architect
600 N Mission Blvd
Fayetteville, Arkansas 72701
479-302-5000
501 219 1614
www.andrewhicksarchitect.com

ISSUE DATE: 8/11/2024

REVISIONS

NO.	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

FLOOR PLAN- FURNITURE

AA-5

② FRONT ELEVATION
3/16" = 1'-0"

① REAR ELEVATION
3/16" = 1'-0"

REVISIONS	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

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AHA
600 N Mission Blvd
Fayetteville, Arkansas 72701
m - 501.680.0789
o - 479.332.5050
www.andrewhicksarchitect.com

ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
AR # 12024
8/11/2024
ARKANSAS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY
BRYANT, ARKANSAS 72022

EXTERIOR ELEVATIONS

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-6

1 SIDE ELEVATION-RIGHT
3/16" = 1'-0"

2 SIDE ELEVATION-LEFT
3/16" = 1'-0"

REVISIONS	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

andrew hicks | architect
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600 N Mission Blvd
Fayetteville, Arkansas 72701
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o - 479.332.5050
www.andrewhicksarchitect.com

ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
AR # 12024
8/11/2024
ARKANSAS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY

BRYANT, ARKANSAS 72022

EXTERIOR ELEVATIONS

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-7

1 ENLARGED ENTRY ELEVATION
3/8" = 1'-0"

REVISIONS	DATE
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

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o - 479.332.5050
www.andrewhicksarchitect.com

ANDREW HICKS ARCHITECT INC
REGISTERED ARCHITECT
AH - C 1246
8/11/2024
ARKANSAS

A NEW SEMINARY FACILITY
AND RELATED SITE WORK
FOR
MISSIONARY BAPTIST SEMINARY

BRYANT, ARKANSAS 72022

EXTERIOR ELEVATIONS

ARCHITECT OF RECORD
ANDREW HICKS, ARCHITECT INC

ISSUE DATE: 8/11/2024

AA-8

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: 10/9/24

Applicant or Designee:

Name Finley + company
Address P.O. Box 10, Bryant
Phone 501-664-1300
Email Address Stuart@finleyandcompany.com

Property Owner (If different from Applicant):

Name Danny + Donna Anderson Trustees Living Trust
Address 298 W Lawson Rd. Alexander
Phone AR, 72002-9630
Email Address

Property Information:

Address
Parcel Number 840-17010-000
Existing Zoning Classification R-E
Requested Zoning Classification C-3
Legal Description (If Acreage or Metes and Bounds description, please attach in a legible typed format)
See attached deed - tract 2

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 _____, 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.

NOTICE OF PUBLIC HEARING

A public hearing will be held on Monday, November 11 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 Parcel # 840-15010-000 (address). A legal description of this property can be obtained by contacting the Bryant Department of Community Development.

Rick Johnson
Chairman Board of Zoning Adjustment
City of Bryant

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

SAMPLE LETTER

Date
Name
Address

RE: Rezoning Petition

The property located at _____ is being considered for rezoning from _____ to _____. The property is more particularly described as follows:

INSERT LEGAL DESCRIPTION OF PROPERTY

An application has been filed with the City of Bryant Planning Commission to rezone the property. As part of this process, a public hearing will be held on Monday _____, 2021 at 6:00 PM in the Boswell Community Center Courtroom, 210 SW 3rd Street, Bryant, AR 72022.

Public comments will be accepted at that time regarding this rezoning. Since you own property within 300 feet of the property in consideration, you have been sent this letter via certified mail as required by city ordinance.

Should you have any questions regarding this matter you may contact the City of Bryant at 501-943-0857 or by contacting me at _____.

Thank you for your consideration in this matter.

Sincerely,

Your Signature

Your Name

LEGAL NOTICE

NOTICE IS HEREBY GIVEN THAT A PUBLIC HEARING WILL BE HELD ON MONDAY, NOVEMBER 11, 2024 AT 6:00 PM AT THE BRYANT CITY OFFICE COMPLEX, 210 SW 3RD ST., BRYANT, AR 72022 FOR THE PURPOSE OF PUBLIC COMMENT FOR REZONE APPROVAL ON BEHALF OF FINLEY & COMPANY OF THE 33 ACRE PROPERTY LOCATED ON THE EAST SIDE OF ALCOA RD. PARCEL #840-15010-000 LYING WEST OF MOUNT CARMEL RD., BRYANT, AR.. THE APPLICATION REQUESTS TO REZONE FROM IT'S CURRENT ZONING OF R-E TO C-3. FOR INFORMATION PLEASE CONTACT HOPE CONSULTING, INC. AT 501-315-2626.

Type of Instrument: Special Warranty Deed
Grantors: Danny Daryl Anderson and Donna Faye Anderson, Husband and Wife
Grantee: Danny Anderson and Donna Anderson, Trustees of the Anderson Living Trust, dated March 4, 2019

This Instrument Prepared Without Title Search of Survey By:
Nash Law Firm, P. A.
Attorneys at Law
103 Park Drive
Maumelle, AR 72113

After Recording Return To:
Nash Law Firm, P. A.
103 Park Drive
Maumelle, AR 72113

2019-006529
I certify this instrument was filed on:
04/11/2019 11:25:51 AM
Myka Bono Sample
Saline County Circuit Clerk

Pages: 5
C GREER

SPECIAL WARRANTY DEED

KNOW ALL PERSONS BY THESE PRESENTS:

THAT, **DANNY DARYL ANDERSON and DONNA FAYE ANDERSON, Husband and Wife,** hereinafter **GRANTORS**, for and in consideration of the sum of Ten and 00/100 Dollars ($10.00) and other good and valuable consideration in hand paid by **DANNY ANDERSON and DONNA ANDERSON, Trustees of the ANDERSON LIVING TRUST, dated March 4, 2019,** and any amendments thereto, hereinafter **GRANTEE,** the receipt and sufficiency of which is hereby acknowledged, do hereby grant, bargain, sell and convey all of their right, title, and interest unto the GRANTEE, and unto its successors and assigns forever, in and to the following described lands located in the County of Saline, State of Arkansas, to wit:

SEE EXHIBIT "A"

To have and to hold, unto the GRANTEE, and unto its successors and assigns forever, with all tenements, appurtenances and hereditaments thereunto belonging, retaining their homestead rights therein subject to the terms of the Trust referred herein.

AND THE GRANTORS DO HEREBY COVENANT with the Grantee, except as above-noted, that at the time of the delivery of this Deed, the premises were free from all encumbrances made by it, and that it will warrant and defend the same against the lawful claims and demands of all persons claiming, by, through, or under it, but against none other.

In Witness Whereof I have hereunto set my hand this 18th day of March, 2019.

Danny Daryl Anderson
DANNY DARYL ANDERSON, Grantor

Donna Faye Anderson
DONNA FAYE ANDERSON, Grantor

8 1 1 2 4 8 8
TX:4074675

EXHIBIT

A

Tract I:

That part of the South half of the Northeast Quarter of Section 32, Township 1 South, Range 14 West, described as follows: Beginning at a point 377 feet East of the Southwest corner of the East half of the Southwest Quarter of the Northeast Quarter of said Section 32 and run thence East 377 feet; thence North to the North line of said South half of said Northeast Quarter; thence West 377 feet; thence South to the point of beginning, consisting of 11 acres, more or less.

Tract II:

The South half of the Southwest Quarter of Southwest Quarter consisting of 20 acres and part of the North half of the Southwest Quarter of Southwest Quarter described as follows: Beginning at the Southwest corner of said North half of the Southwest Quarter of the Southwest Quarter and thence run North 159 feet to the South line of the First Electric Cooperative Corporation lands and thence run East along the south lien of said First Electric Cooperative Corporation lands 1320 feet to the East boundary line of said North half of the Southwest Quarter of Southwest Quarter; thence South 159 feet to the Southeast corner of said North half of Southwest Quarter of Southwest Quarter; thence West 1320 feet to a point of beginning. And part of the Southeast Quarter of the Southwest Quarter described as follows: Beginning at the Southwest corner of said Southeast Quarter of Southwest Quarter and run thence North 819 feet to the South line of the First Electric Cooperative Corporation lands, thence East along the South side of said First Electric Cooperative Corporation lands, 195 feet; thence South 210 feet; thence East 446 feet to the West side of a public road as now located; thence South along the West side of said public road to the South line of said Southeast Quarter of Southwest Quarter; thence West to the point of beginning all said lands lying in Section 29, township 1 South, Range 14 West in Saline County, Arkansas and containing in the aggregate 33 acres, more or less.

840-15010-000

LESS AND EXCEPT:

Part of the Southwest Quarter of the Southwest Quarter of Section 29, Township 1 South, Range 14 West, Saline County, Arkansas being more particularly described as follows: Commencing at a ¾ inch pipe used as the Southeast corner of the Southeast Quarter of the Southwest Quarter of Section 29; thence North 89 deg. 14 min. 12 sec. West along the South line thereof a distance of 1,333.88 feet to a point being used as the Southeast corner of the Southwest Quarter of the Southwest Quarter of Section 29; thence North 89 deg. 14 min. 12 sec. West along the South line thereof a distance of 1,235.55 feet to a

point on the East right of way line of Alcoa Road as established by AHTD Job 061267 for the point of beginning: thence continuing North 89 deg. 14 min. 12 sec. West along said South line a distance of 30.02 feet to a point; thence continuing North 89 deg. 14 min. 12 sec. West along said South line a distance of 29.29 feet to a point on the East right of way line of Alcoa Road as established by AHTD Job C-62-4; thence north 3 deg. 03 min. 29 sec. East along said right of way line a distance of 255.81 feet to a point; thence North 1 deg. 52 min. 14 sec. East along said right of way line a distance of 562.25 feet to a point; thence South 88 deg. 49 min. 00 sec. East a distance of 92.83 feet to a point on the East right of way line of Alcoa Road as established by AHTD Job 061297; thence South 1 deg. 47 min. 55 sec. West along said right of way line a distance of 52.06 feet to point; thence South 22 deg. 04 min. 53 sec. West along said right of way line a distance of 49.04 feet to a point; thence South 60 deg. 50 min. 06 sec. West along said right of way line a distance of 34.99 feet to a point; thence South 28 deg. 31 min. 43 sec. West along said right of way line a distance of 48.91 feet to a point; thence South 1 deg. 47 min. 55 sec. West along said right of way line a distance of 179.31 feet to a point; thence South 1 deg. 03 min. 04 sec. West along said right of way line a distance of 150.17 feet to a point; thence South 2 deg. 17 min. 28 sec. West along said right of way line a distance of 288.04 feet to a point; thence South 34 deg. 18 min. 23 sec. East along said right of way line a distance of 50.34 feet to the Point of Beginning and containing 0.67 acres, more or less or 29,024 square feet, more or less.

Condition:

Subject to the condition and the condition shall be a covenant that shall run with the land that said Danny Daryl Anderson and/or Donna Faye Anderson, their heirs and assigns may not, under any circumstances, permit the use, lease or purchase of the land by any member of the Boone Family (being the Boone family related to Gola Boone) any person related to Boone by marriage, or any know relative of a Boone-in-law.

Restriction:

Subject to covenants and restrictions of record including but not limited to access restrictions of the City of Bryant, Arkansas.

ARKANSAS DEPARTMENT OF FINANCE AND ADMINISTRATION

Arkansas Real Property Tax Affidavit of Compliance Form

Grantee (Purchaser) Name			Grantor (Seller) Name		
Danny & Donna Anderson, Trustees			Danny Daryl Anderson & Donna Faye Anderson		
Grantee (Purchaser) Address			Grantor (Seller) Address		
298 W. Lawson Road			298 W. Lawson Road		
City	State	Zip Code	City	State	Zip Code
Alexander	AR	72002	Alexander	AR	72002

Date of real property transfer (as reflected on the transfer instrument): 3/18/19

Name of the county where the property is located: Saline

Amount of the full consideration for the transaction: $10.00

( ) Tax is due: Value of the documentary stamps: _____

(X) No tax is due: Family or Gift or Consideration of $100 or less

( ) No tax is due: Exemption (check one exemption below)

- [ ] Transfers to or from the United States, the State of Arkansas, or any of the instrumentalities, agencies, or political subdivisions thereof.
- [ ] Any instrument given in writing to secure a debt.
- [ ] Any instrument solely for the purpose of correcting or replacing an instrument that has been previously recorded with full payment of tax having been paid at the time of the previous recordation.
- [ ] Instruments conveying land sold for delinquent taxes.
- [ ] Instruments conveying leasehold interest in land only.
- [ ] Instruments, including timber deeds, which convey the right to remove timber for a period not to exceed twenty-four (24) months.
- [ ] Instruments given by one party in a divorce action to other party to the divorce action as a division of marital property whether by agreement or order of the court.
- [ ] Instruments given in any judicial proceeding to enforce any security interest in real estate when the instrument transfers the property to the same person who is seeking to enforce the security interest.
- [ ] Instruments given to a secured party in lieu of or to avoid a judicial proceeding to enforce a security interest in real estate.
- [ ] Instruments conveying a home financed by the Federal Housing Administration, Department of Veterans Affairs, or United States Department of Agriculture (USDA) Rural Development, if the sale price of the home is sixty thousand dollars ($60,000) or less and the seller files with the county recorder of deeds a sworn statement by the buyer stating that neither the buyer nor the spouse of the buyer has owned a home within three (3) years of the date of closing and also stating the sale price of the home.
- [ ] Instruments conveying land between corporations, partnerships, limited liability companies, or between a business entity and its shareholder, partner or member of a corporation incident to the organization, reorganization, merger,consolidation, capitalization, asset distribution, or liquidation of a corporation, partnership, limited liability company, or other business entity.
- [ ] A beneficiary deed under ACA 18-12-608.
- [ ] Other (Explain): _____

I certify under penalty of false swearing that documentary stamps or a documentary symbol in the legally correct amount has been placed on this instrument.

Mary G. Nash		3/18/19
(Print Name)	(Signature of Requestor)	(Date)

ACKNOWLEDGMENT

STATE OF ARKANSAS)
) ss
COUNTY OF PULASKI)

On this day before me, a Notary Public, duly commissioned and acting, came Danny Daryl Anderson and Donna Faye Anderson, to me well known as (or satisfactorily proven to be) the Grantors in the foregoing deed, and stated that they executed the same for consideration, uses and purposes therein mentioned and set forth.

And Grantors declared that they have, of their own free will, executed said instrument for the consideration and purposes therein contained and set forth, without compulsion or undue influence.

WITNESS my hand and official seal this 18th day of March, 2019.

[Seal]

SHALLON A. SIGULINSKY
Notary Public-Arkansas
Pulaski County
My Commission Expires 05-18-2021
Commission # 12382559

Shallon A. Sigulinsky
Notary Public

My Commission Expires: 5-18-2021

The undersigned hereby certifies under penalty of false swearing that the legally correct amount of documentary stamps has been placed on this instrument. Exempt or no consideration paid if none shown.

Danny Anderson
Grantee or Grantee's Agent

298 W. Lawson Rd.
Grantee's Street Address

Alexander, AR 72002
Grantee's City, State and Zip Code

HOPE
CONSULTING
ENGINEERS - SURVEYORS

October 9th, 2024

Re: Rezone Petition

A property located on Alcoa Road, Bryant, Arkansas is being considered for Rezoning on behalf of Stuart Finley from its current zoning as R – E to C – 3.

PARCELS # **840-15010-000** .

An application has been sent to the City of Bryant Planning Commission to rezone this parcel. As a part of this process a public hearing will be held November 11th, 2024 at 6:00 pm in the Boswell Municipal Complex at 210 SW 3rd Street, Bryant, AR 72022.

All parties interested in this matter may appear and be heard at the said time and place or may notify the Planning Commission of their views on this matter by letter or email. All persons interested in this request are invited to call or visit the Planning Office, City Administration Building to review and discuss the application with the planning staff.

Should you have any questions regarding this matter you may contact Hope Consulting at 501-315-2626 or the City of Bryant at 501-993-0999.

Thank you for your consideration in this process.

Sincerely,

Jonathan Hope

129 N. Main St. Benton, AR 72015 * 501-315-2626 * Fax 501-315-0024