Authentisign ID 425F9F9A-3A0B-F011-90CE-00224822F75A

Village of Germantown
Willkommen

Fee must accompany application
Preliminary & Final Plat Fees Combined
Under 10 lots $4,575
11-25 lots $5,600
26-50 lots $6,625
Over 51 lots $7,650

☐
☐
☐
☒

Pd 3/28/25 KS
Chk #2560

SUBDIVISION PLAT APPLICATION

Pursuant to Section 18.04 and 18.05 of the Municipal Code

Please read and complete this application carefully. **All applications must be signed and dated.**

1

APPLICANT OR AGENT
Home Path Financial Limited Partnership
ATTN: Ken Frank
5116 N 126th St
Butler, WI 53007
Phone (262) 328-4939
Fax ( )
E-Mail kfrank@myhomepath.com

PROPERTY OWNER
Mohrhusen Family Farm, LLC; et al
Dittmar Realty, Inc. ATTN: Kevin Dittmar
PO Box 99
Menomonee Falls, WI 53052
Phone (414) 870-5810
cdunn@drilots.com

2

PROPERTY ADDRESS OR GENERAL LOCATION	TAX KEY NUMBER(S)
Property on Northeast corner of County Line Road and Lannon Road	GTNV_323995, GTNV_323986 and GTNV_323987

3 **READ AND INITIAL THE FOLLOWING:**

KF I understand that the Subdivision Plat is not valid until recorded at the Washington County Register of Deeds. The Village will record the document and charge the applicant all applicable recording fees.

KF If technical corrections to the Plat are required, I understand that the document will not be recorded until all corrections are made and approved by the Village.

KF I understand that all applicable impact fees must be paid prior to recording. Failure to pay fees will delay recording and may ultimately result in the revocation of Village approval. I understand that parcels created outside the Sewer Service Area will require a soil test. I also understand that all properties abutting a State Highway will require DOT approval and I will be responsible for securing such approval prior to recording.

KF I understand all delinquent property taxes on any of the properties involved shall be paid prior to recording.

KF I understand that a Developer's Agreement will be required prior to recording of the plat.

4 **SIGNATURES -- ALL APPLICATIONS MUST BE SIGNED BY OWNER!**

Ken Frank — 03/27/25
Applicant — Date

Kevin S. Dittmar — 3/27/25
Owner — Date
Kevin S. Dittmar, President of Dittmar Realty, Inc. Manager of Mohrhusen Family Farm, LLC

RECEIVED
MAR 28 2025
OFFICE OF THE VILLAGE PLANNER
VILLAGE OF GERMANTOWN

Authentisign ID: 772000C7-3C0B-F011-90CE-00224822F75A

Village of Germantown ...Willkommen

FEES MUST BE PAID AT TIME OF APPLICATION

$200 Plan Commission Consultation
$1,085 Rezoning
$1,240 PDD < 5 acres
$2,095 PDD 5-20 acre site
$3,460 PDD > 20 acre site

Date Paid: 3/28/25 Received by: DR
chk # 2560

REZONING & PDD APPLICATION

Pursuant to Section 17.51 of the Municipal Code

Please read and complete this application carefully. **All applications must be signed and dated.**

1

APPLICANT OR AGENT

Home Path Financial Limited Partnership
ATTN: Ken Frank
5116 N 126th St
Butler, WI 53007
Phone (262) 328-4939
E-Mail kfrank@myhomepath.com

PROPERTY OWNER

Mohrhusen Family Farm, LLC; et al
Dittmar Realty, Inc. ATTN: Kevin Dittmar
PO Box 99
Menomonee Falls, WI 53052
Phone (414) 870-5810
E-Mail cdunn@drilots.com

2

PROPERTY ADDRESS OR GENERAL LOCATION	TAX KEY NUMBER
Property on Northeast corner of County Line Road and Lannon Road	GTNV_323995, GTNV_323986 and GTNV_323987

3

REZONING REQUEST

FROM	TO
Agricultrual	RS-7 and RM-2 with PDD Overlay

4

METES AND BOUNDS LEGAL DESCRIPTION OF PROPERTY – REQUIRED

Attach pages as necessary

Please see attached Legal Description.

RECEIVED
MAR 28 2025
OFFICE OF THE VILLAGE PLANNER
VILLAGE OF GERMANTOWN

Authentisign ID 772800C7-3E0B-F011-90CE-00224822F75A

5 PURPOSE OF REZONING REQUEST

Briefly describe why the applicant is rezoning the property. Include a description of the proposed use, including any new construction and number of employees, if applicable.

Please see attached Project Narrative.

6 SUPPORTING DOCUMENTATION:

☒ Plat of Survey (1:100)

☒ Site Plan and elevations for new construction (can be conceptual)

7 READ AND INITIAL THE FOLLOWING:

KF I understand that the Village is under no obligation to rezone property and that density and lot coverages provided in the Zoning Code are maximums. Actual build out will depend on myriad factors including topography and other natural conditions, surrounding neighborhood context and the detailed design of a project.

KF I understand that Village Staff, Plan Commission and/or Village Board may request additional information to properly evaluate this request and failure to provide such information may in itself by sufficient cause to deny the petition.

KF I am aware that this rezoning shall go into effect immediately upon the final approval of the Village Board and its execution of the rezoning ordinance

KF I understand that Village Staff is required to post one or more signs along the street frontage of and/or on the property subject of this application that indicate to nearby property owners and the general public that a public hearing of my application will be held before the Village Plan Commission and/or Village Board prior to action taken on this application; I hereby grant Village Staff permission to enter onto the property for the expressed purpose of installing said sign(s) provided Village Staff is responsible for installing, maintaining and removing said signs in a reasonable manner and time frame.

8 SIGNATURES – ALL APPLICATIONS MUST BE SIGNED BY OWNER!

Ken Frank 03/27/25

Applicant Date

Kevin S Dithmar 3/27/25

Owner Date

Kevin S Dithmar, President of Dithmar Realty, Inc., Manager of Mohrhusen Family Farm, LLC

Village of
Germantown

Village of Germantown
Clerk Treasurer
N112W17001 MEQUON ROAD
Germantown, WI 53022
(262)250-4700
Welcome

03/28/2025 03:33PM PRAVINA P
000863-0054
Payment Effective Date 03/26/2025

MISCELLANEOUS

PLAT REVIEW FEES (GENPLT)	
2025 Item: GENPLT	
1 @ $11,110.0000	
PLAT REVIEW FEES (GENPLT)	$11,110.00
	$11,110.00
Subtotal	**$11,110.00**
Total	**$11,110.00**
CHECK	$11,110.00
Check Number2560	
Change due	**$0.00**

Thank you for your payment

Village of Germantown COPY
DUPLICATE RECEIPT

Mohrhusen Farm
Project Narrative

A. Project Summary

Total Site Area	88.31 acres
Total Residential Units	275
P.E.C.	0.0
171 Single Family	71.34 gross acres
104 Attached Homes	16.97 gross acres
Gross Density	3.11 acres
Open Space	28.00 acres
Net overall Res. Density	4.56 du/ac
Net Single Family Density	2.2 du/ac
Net Attch'd Home Density	5.9 du/ac
Public R.O.W.	13.70 acres

B. Request for Action

1. Rezoning from A-1 to Rs-7 & Rm-2, with PDD Overlay
2. Preliminary Plat Approval

C. Existing Site Analysis

The proposed neighborhood to be developed is an 'L' shaped 88.3 acre site that is currently in cultivated farmland bisected by tree lines and has a 9 acre area that is currently somewhat degraded woodlands, located at the northwest corner of Lannon (CTH Y) and Couty Line Road (CTH Q). The site is a large part of the Lannon Gateway Neighborhood as identified in the 2050 Comprehensive Plan which states that "desirable future land uses within the Lannon Gateway Neighborhood include single family and multifamily residential. Future residential development is acceptable at an average density of 2.9 du/ac for single family and 10 du/ac for multifamily".

There are 3 (zoned Rs-2, Rs-3, and Rs-4) residential parcels that are 'cut-outs' from the original parcel that were part of the original farmstead. The lands to the east are zoned I-Institutional, A-1 farmland to the northeast and a large rural residential lot that is A-2 to the northwest, the lands to the west are A-1, Rs-4 and Rs-2 scattered site zoning. The Village of Menomonie Falls is to the south and consists of rural residential.

The topography of the site has a ridge that runs through the site from the northwest to the southeast and will require 5 water detention/retention areas. There are no Primary Environmental Corridors on the property.

Lannon and County Line Roads have recently been improved to include center medians and a fully improved intersection. There are opportunities to create access points on County Line Road at Club Circle and Woodside Lane. Access points are available at key locations along Lannon Road based on elevations and the gentle curve of the road.

D. Proposed Zoning and Land Use

The parcel is currently zoned A-1. The neighborhood was designed to incorporate rolling terrain, set aside ample buffers from the surrounding roads and land uses, provide a range of house types to attract young families and empty-nesters, and create a thoughtful road pattern that creates an organized circulation pattern for pedestrians and vehicles. To achieve our design goals, we are requesting that we be zoned as Rs-7/PDD for the single family area and Rm-2/PDD following the preferred land uses laid out in the Lannon Gateway Neighborhood Plan in the 2050 Comprehensive Plan.

The parcel serves as a transition area between the commercial corridor and business park to our east, and the rural residential areas to the west.

E. Proposed Utilities

The developer worked together with Village Engineering and Public Works staff to thoughtfully plan extension of public utilities. As such, the proposal contemplates installation of sanitary sewer and water main through the development, extending from existing facilities near the intersection of County Line Road and Cross View Way. Public sanitary sewer ranging from 15-inch to 8-inch will meet the needs of the proposed neighborhood, as well as support future growth of the Village. Public water main ranging from 12-inch to 8-inch will meet the needs of the proposed neighborhood, as well as support future potential of a new Village well in the general vicinity. Public streets will drain via public storm sewer to multiple storm water management areas within the neighborhood. Townhouse blocks within the neighborhood will be served by private sanitary sewer and private streets will drain via private storm sewer. All utilities will meet Village standards and satisfy State regulations.

F. Description of Development

We created 4 areas that are connected by pedestrian pathways to provide a range of housing types that will ensure we have a dynamic neighborhood, open space, and neighborhood streets. 32% of the site is set aside as open space which includes the preservation of a 9.8 acre woodland area, a central active park, and buffer and storm water detention areas. There are 2 connections provided to County Line Road and one to Lannon Road to provide efficient access to the neighborhood.

The 4 types of homes:

1. The 44 Flagship Homes are the pinnacle of Stepping Stone Homes portfolio. Homes range in size starting at 1,800 sf for ranch models, to over 2,700 sf for 2-story homes, all with 2 and 3 car garages. Many of the Flagship homes back up to open space and can provide for standard, walkout, and lookout basements.

2. The 99 Pathway Homes woven into the neighborhood are a mid-range home that provides a wide range of options for young families, and families looking to upsize into a larger home. These range in size from 1,450 to 2,450 sf in ranch and 2 story models all with 2 or 3 car garages.

3. The 28 paired homes are one story 2 and 3 bedroom ranch homes that can provide a maintenance free option for young families or empty nesters.

4. The 17-acre area set aside for the 104 attached homes is planned for townhouse style homes that will be designed to take advantage of the south sloping terrain and be accessed by a private drive with common outdoor space and additional guest parking. Each will have 2 garage spaces, driveways, outdoor space and connections to the open space and neighborhood.

G. Bulk Table

Rs-7 Areas include the Flagship lots, the Pathway lots, and the Paired Homes:

A. Setbacks:

	Flagship	Pathway	Paired	Attached
Front	**30’**	**30’**	**30’**	**25’**
Side	**12’**	**8’**	**6’**	**16’**
Corner Side	**25’**	**25’**	**25’**	**25’**
Rear	**30’**	**30’**	**25’**	**20’**

H. Deed Restrictions Single Family Detached

Ranch homes minimum 1,450sf

2 story homes minimum 1,750sf

General exterior finishes - Brick, Stone, Wood, Stucco, Vinyl, Other high quality man-made or natural materials

All elevations within the Stepping Stone Homes portfolio

I. Common Open Space and Parkland

28 acres of open space surrounds the site as landscape buffer, stormwater detention, and woodland preservation. All connected by green corridors, with an active park in the center of the neighborhood, maintained by the Homeowners Association.

Central areas within the neighborhood will be maintained lawn and shrub beds and the perimeter landscaped buffers will be maintained trees, shrub beds, and lawns. The woodland and detention areas will be designed with native plantings and maintained to ensure a pleasing and efficient storm water system and natural aesthetics.

The 3 entrance areas will provide neighborhood signage, decorative fencing and landscaped beds with perennials, ornamental trees and shrubs. These areas will be integrated into the buffer areas to provide a perimeter image for the neighborhood and will provide a consistent landscaped edge for the village at this key gateway location.

Neighborhood trails will be provided as shown on the Site Plan and will be low-impact woodchip and mowed paths. Areas at slopes and high traffic areas being limestone screening or asphalt paving.

J. Benefits to the Village

Anticipated increase of approximately $1.8M in additional tax revenue to the Village of Germantown. The SW corner of the site provides for monumentation at a gateway into Germantown, from the west. Adding a variety of price points for additional needed housing stock within Germantown. Public sanitary sewer and water main extensions through the proposed neighborhood will support future growth/demand within this part of the Village.

THAT PART OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER (NW ¼ SW ¼) AND PART OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER (SW ¼ SW ¼) AND PART OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER (SE ¼ SW ¼) OF SECTION THIRTY-TWO (32), TOWN NINE (9) NORTH, RANGE TWENTY (20) EAST, VILLAGE OF GERMANTOWN, WASHINGTON COUNTY, WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTH ¼ CORNER OF SAID SECTION 32; THENCE NORTH 01° 24' 32" WEST ALONG THE EAST LINE OF THE SOUTHWEST ¼ OF SAID SECTION 32 (RECORDED AS NORTH 01° 25' 14" WEST), 219.222 FEET TO AN EXISTING 1-INCH I.P., SAID POINT BEING THE POINT OF BEGINNING OF LANDS TO BE DESCRIBED; THENCE CONTINUING NORTH 01° 24' 32" WEST ALONG SAID EAST LINE, 1114.738 FEET TO A SET 1-INCH I.P.; THENCE SOUTH 89° 35' 56" WEST, 1325.809 FEET TO A SET 1-INCH I.P.; THENCE NORTH 00° 22' 09" WEST, 665.595 FEET TO AN EXISTING "X" IN A ROCK; THENCE SOUTH 89° 35' 36" WEST, 1294.485 FEET TO AN EXISTING 1-INCH I.P., SAID POINT ALSO BEING ON THE EASTERLY R.O.W. LINE OF C.T.H. "Y" (LANNON ROAD); THENCE SOUTH 01° 30' 31" EAST ALONG SAID R.O.W. LINE, 1440.115 FEET TO A SET 1-INCH I.P.; THENCE ALONG THE ARC OF A CURVE, 234.733 FEET (CHORD BEARING OF SOUTH 12° 14' 10" EAST, 233.364 FEET) TO A SET 1-INCH I.P.; THENCE SOUTH 22° 57' 49" EAST, 175.906 FEET TO A SET 1-INCH I.P.; THENCE ALONG THE ARC OF A CURVE, 86.957 FEET (CHORD BEARING OF SOUTH 16° 55' 14" EAST, 86.796 FEET) TO A SET 1-INCH I.P.; THENCE SOUTH 64° 49' 42" EAST, 76.644 FEET TO A SET 1-INCH I.P., SAID POINT BEING ON THE NORTHERLY R.O.W. LINE OF C.T.H. "Q" (COUNTY LINE ROAD); THENCE NORTH 89° 38' 57" EAST ALONG SAID R.O.W. LINE, 1149.251 FEET TO A SET 1-INCH I.P.; THENCE NORTH 00° 21' 03" WEST, 364.030 FEET TO AN EXISTING 1-INCH I.P.; THENCE NORTH 89° 38' 57" EAST, 143.400 FEET TO A SET 1-INCH I.P.; THENCE SOUTH 00° 21' 03" EAST, 77.870 FEET TO A SET 1-INCH I.P.; THENCE SOUTH 89° 23' 34" EAST, 170.370 FEET TO AN EXISTING 1-INCH I.P.; THENCE SOUTH 00° 54' 50" EAST, 283.325 FEET TO A SET 1-INCH I.P, SAID POINT BEING ON THE NORTHERLY R.O.W. OF C.T.H. "Q" (COUNTY LINE ROAD); THENCE NORTH 89° 38' 57" EAST ALONG SAID R.O.W., 28.604 FEET TO A SET 1-INCH I.P.; THENCE NORTH 00° 21' 03" WEST, 170.000 FEET TO A SET 1-INCH I.P.; THENCE NORTH 89° 38' 57" EAST, 110.000 FEET TO A SET 1-INCH I.P.; THENCE SOUTH 00° 21' 03" EAST, 170.000 FEET TO A SET 1-INCH I.P., SAID POINT ALSO BEING ON THE NORTHERLY R.O.W. LINE OF C.T.H. "Q" (COUNTY LINE ROAD); THENCE NORTH 89° 38' 57" EAST ALONG SAID R.O.W., 702.830 FEET TO A POINT ON THE NORTH R.O.W. OF SAID C.T.H. "Q" (COUNTY LINE ROAD); THENCE NORTH 01° 29' 35" WEST, 169.186 FEET TO AN EXISTING 1-INCH I.P.; THENCE NORTH 89° 38' 01" EAST, 110.080 FEET TO THE POINT OF BEGINNING, EXCEPTING THEREFROM THREE (3) PARCELS OF LAND, DESCRIBED AS FOLLOWS:

1. THAT PORTION DESCRIBED BY TRUSTEE'S DEEDS RECORDED AS DOCUMENT NO'S 440169, 440170 AND 440171.

2. THAT PORTION CONTAINED IN AWARD OF DAMAGES RECORDED ON APRIL 29, 2005, AS DOCUMENT NO. 1086250.

3. THAT PORTION CONTAINED IN CONVEYANCE RECORDED ON DECEMBER 27, 1938, AS DOCUMENT NO. 168138.

TAX KEY NO.'S: GTNV 323-995 AND GTNV 323-987 AND GTNV 323-986

SITE DATA

Gross Site Area		88.3 acres
Overall Gross DU/ Acre		3.1 du/acre
Gross Sq Ft per unit		13,986 sf/per unit
Total Density		275 units
Rm-2 PDD/Attached Home Area		17.5 gross acres
Total		104 Attached Units
Attached Home Density		5.9 du/acre
Rs-7 PDD/Single & Paired Home Area		77.3 gross acres
Paired Ranch Villas	28	
Pathway + Homes	48	
Pathway ltd.	51	
Flagship Homes	44	171 Detached Units
Single and Paired Density		2.2 du/acre
Open Space		28.0 (32.0%)
Total Net Site Area		46.6 ac
Overall Gross DU/Acre		3.11 du/ac
Overall Net DU/Acre		4.56 du/ac
Proposed ROW		13.7 (15.5%)

LOT DATA

Single Family & Paired Setbacks:

Front:Single Family & Paired	30'
Side: Flagship	10'
Side: Pathway	8'
Side: Paired	6'
Side at Corner	25'
Rear: Flagship/Pathway	30'
Rear: Paired	25'
Rear: Attached Home	25' Perimeter

Flagship Single Family	**44 units**
Average Footprint	72'w x 65'd
Typical Lot	92'w x 135'd
Pathway + SF	**48 units**
Average Footprint	53'-65'w x 65'd
Typical Lot	69'-75'w x 130'd
Pathway Ltd. SF	**51 units**
Average Footprint	40'w x 65'd
Typical Lot	56'w x 130'd
Paired Homes	**28 units**
Average Footprint	82'w x 70'd
Typical Lot	94'w x 125'd
Attached Homes	**104 units**
Average Unit	1,259 sf
up to 4 unit bldgs	

Site Illustrative Plan

North

0 50 100 200 400

HOME PATH FINANCIAL
Opening a path to success

Lannon & County Line Neighborhood
Germantown, Wisconsin

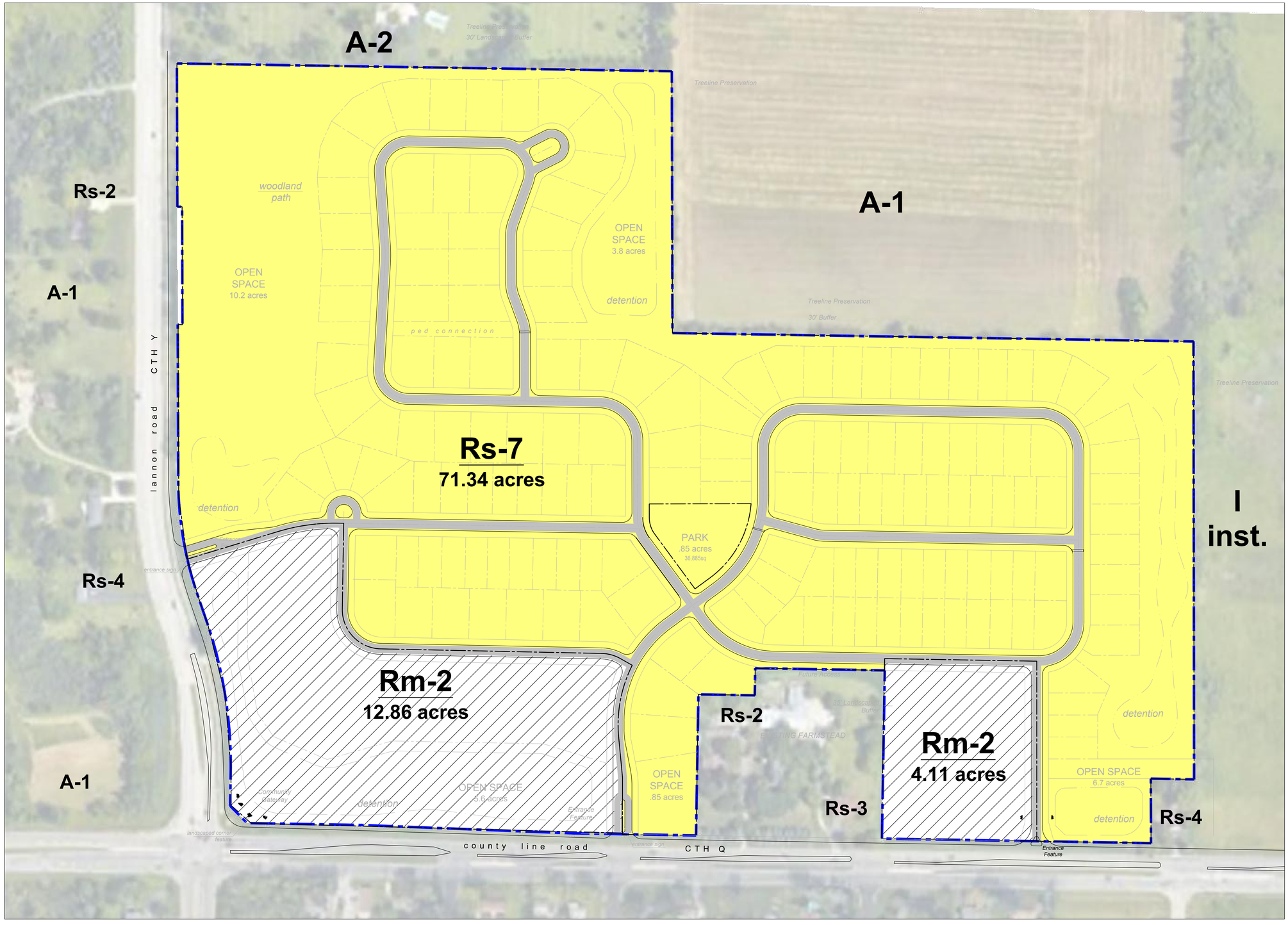
BSB DESIGN
BSBDESIGN.COM

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2025 BSB Design, Inc.

Revised Date: March 25, 2025

ZONING DATA:

Gross Site Area		88.3 acres
Rs - 7 PDD		71.34 ac
		80.7%
Net Density		2.2 du/acre
Bulk Standards:		
Setbacks		
Front	30'	
Side	8'	
Corner Side	25'	
Rear	30'	
Height	35'	
Lot Coverage	30%	
Min. Width	56'	
Min. SF	7,286 sf	
Rm - 2 PDD		16.97 ac
		19.3%
Net Density		5.9 du/acre
Bulk Standards:		
Setbacks		
Front	25'	
Side	10'	
Corner Side	25'	
Rear	20'	
Height	45'	
Lot Coverage	40%	
Min. SF/unit	7,330 sf	



Zoning Map

North

0 50 100 200 400

HOME PATH FINANCIAL
Opening a path to success

Lannon & County Line Neighborhood
Germantown, Wisconsin

Date: March 25, 2025

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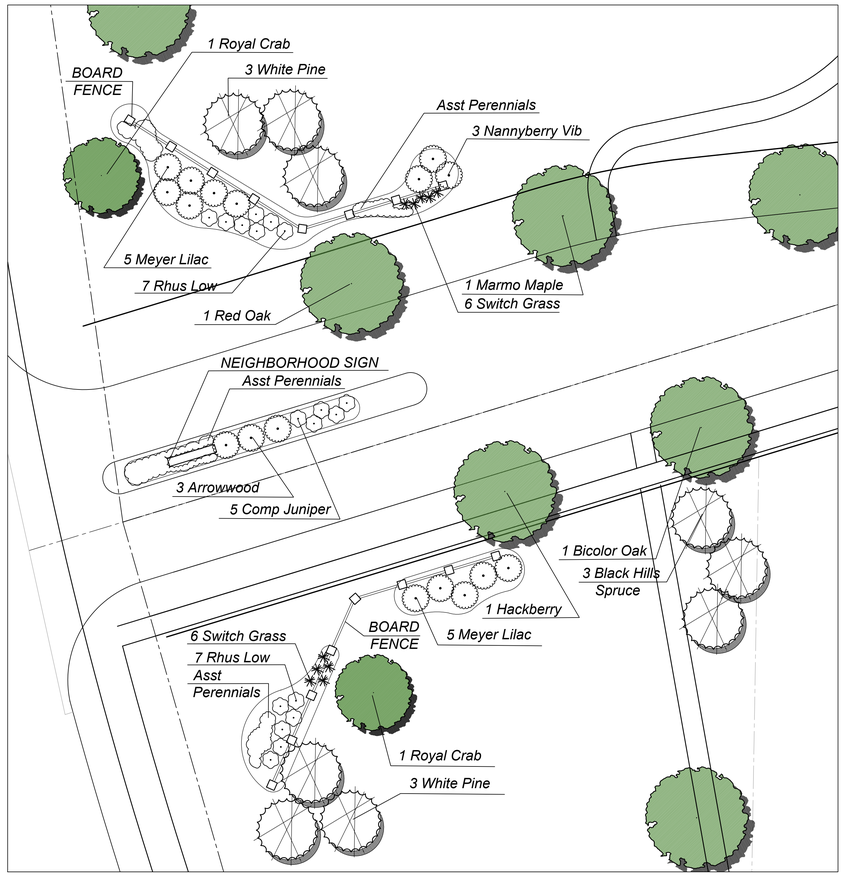
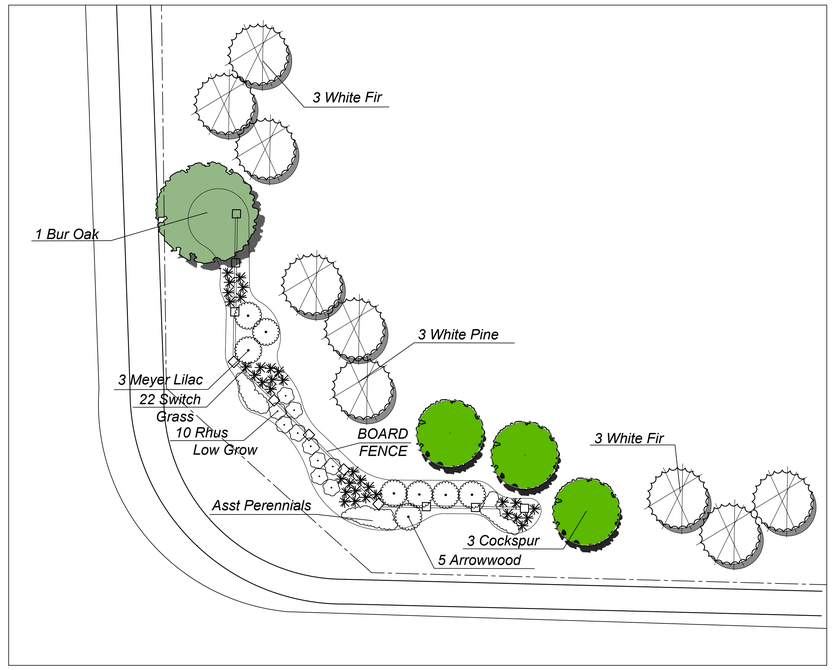
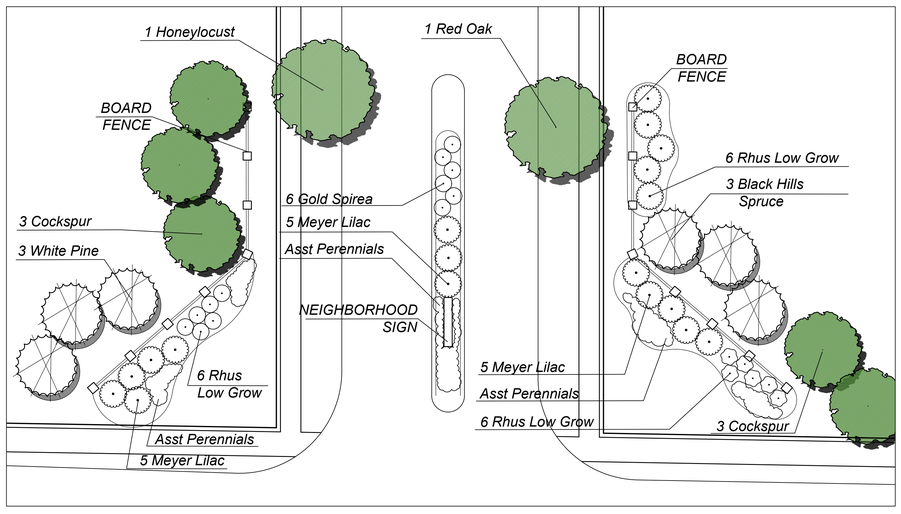


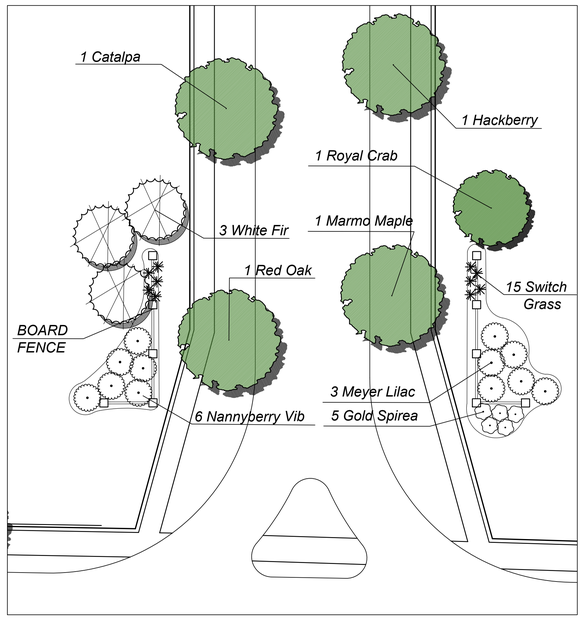
Landscape A



Landscape B



Landscape C



Landscape D

North

0 50 100 200 400

HOME PATH FINANCIAL
Opening a path to success

Lannon & County Line Neighborhood
Germantown, Wisconsin

The drawings presented are illustrative of character and design intent only, and are subject to change based upon final design considerations (i.e. applicable codes, structural, and MEP design requirements, unit plan / floor plan changes, etc.) © 2024 BSB Design, Inc.

Date: October 21, 2024

BSB DESIGN
BSBDESIGN.COM

OPEN SPACE DATA:

Gross Site Area	88.3 acres
Open Space	28.0 acres
Open Space Ratio	31.7%
Development Area	60.3
Dwelling Units	275
Density Ratio	4.56 du/acre
Public R.O.W.	13.7 acres

Open Space Plan

North

0 50 100 200 400

HOME PATH FINANCIAL
Opening a path to success

Lannon & County Line Neighborhood
Germantown, Wisconsin

Date: October 21, 2024

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MARCH 2025
MOHRHUSEN FARM SUBDIVISION

HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN
0025H025.00

PRELIMINARY - NOT FOR CONSTRUCTION
ISSUE FOR ESTIMATION

UTILITY AND EMERGENCY TELEPHONE NUMBERS

EMERGENCY:	911
VILLAGE ENGINEERING:	(262) 250-4721
VILLAGE PUBLIC WORKS:	(262) 250-4725

OWNER CONTACT INFORMATION

KEN FRANK
DIRECTOR OF LAND & DEVELOPMENT
HOME PATH FINANCIAL, LP
5116 NORTH 126TH STREET
BUTLER, WI 53007
(262) 328-4939

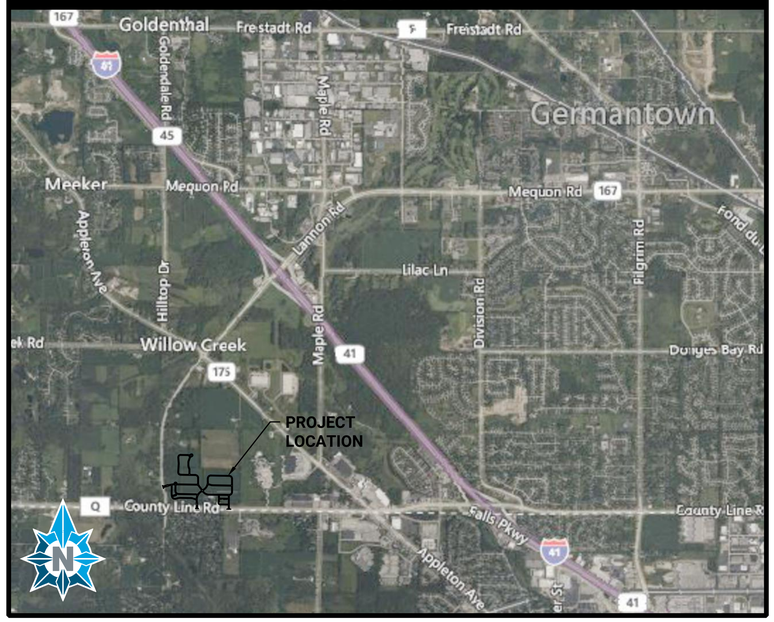
ENGINEER CONTACT INFORMATION

CHRIS HITCH - P.E.
FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
BALLPARK COMMONS OFFICE BUILDING
7044 SOUTH BALLPARK DRIVE, SUITE 200
FRANKLIN, WI 53132
PHONE: (414) 336-7900

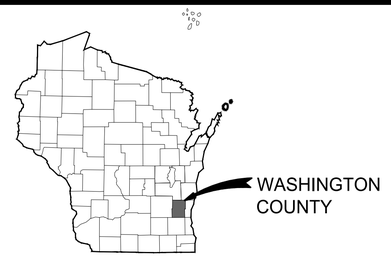
PROJECT ADDRESS

CTH Q & CTH Y GERMANTOWN, WI 53022

LOCATION MAP



STATE & COUNTY LOCATION



STATE: WI COUNTY: Washington

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
G1.00	TITLE SHEET
G2.00	STANDARD LEGEND AND ABBREVIATIONS
G3.00	TYPICAL SECTIONS
C1.01	EXISTING CONDITIONS
C1.02	GRADING PLAN SHEET LAYOUT
C1.04 - C1.07	GRADING PLAN
C1.08 - C1.09	DRAINAGE POND DETAILS
C1.10	UTILITY SYSTEM PLAN SHEET LAYOUT
C1.11 - C1.14	UTILITY SYSTEM PLAN
C1.11 - C1.14	UTILITY SYSTEM PLAN
C2.01 - C2.15	SANITARY SEWER PLAN AND PROFILE
C5.01	EROSION CONTROL DETAILS
C5.02	UTILITY DETAILS

SHEET #: G1.00

FOTH PROJ. #: 0025H025.00

FOTH INFRASTRUCTURE & ENVIRONMENT, LLC

CADASTRAL / PLAT

	EXISTING	PROPOSED
EASEMENT - PERMANENT		
EASEMENT - TEMPORARY		
PROPERTY - PROPERTY LINE		
PROPERTY - RIGHT OF WAY	ROW	ROW
PROPERTY - RIGHT OF WAY MARKER	ROW	ROW
PROPERTY - SECTION LINES		
PROPERTY - SETBACK		

CONTROL

	EXISTING	PROPOSED
CONTROL POINT - GENERAL	CP	CP
CONTROL - IRON ROD, REBAR OR PIPE	IR RB IP	IR RB IP

PAVING AND TRANSPORTATION

	EXISTING	PROPOSED
BRIDGE - GENERAL		
RAILROAD - CONTROL BOX		
RAILROAD - CENTERLINE OF TRACKS		
RAILROAD - SIGNAL		
RAILROAD - TRACK (RAIL)		
ROADWAY - ASPHALT EDGE		
ROADWAY - ASPHALT PATTERN		
ROADWAY - CENTERLINE		
ROADWAY - CONCRETE EDGE		
ROADWAY - CONCRETE PATTERN		
ROADWAY - CURB		
ROADWAY - GRAVEL EDGE		
ROADWAY - GRAVEL PATTERN		
ROADWAY - GUARDRAIL		
ROADWAY - JOINTS		
ROADWAY - METER		
ROADWAY - SIGN - HIGHWAY	CM 141 FED 43 I-STATE 29 STATE A COUNTY	CM 141 FED 43 I-STATE 29 STATE A COUNTY
ROADWAY - WHEELSTOP		
SIDEWALK EDGE		
SIDEWALK PATTERN		

SITE TOPO

	EXISTING	PROPOSED
SITE - BUILDING FOUNDATION		
SITE - BUILDING OUTLINE		
SITE - FENCE - BARBED WIRE		
SITE - FENCE - CHAIN LINK		
SITE - FENCE - FIELD		
SITE - FENCE - WOOD		
SITE - GATE		
SITE - LIGHT	LIGHT - ORNAMENTAL; LIGHT - STREET	LIGHT - ORNAMENTAL; LIGHT - STREET
SITE - MAILBOX	MB	
SITE - BOULDER		
SITE - SEPTIC TANK		
SITE - SIGN - MISC		
SITE - TRAIL		
SITE - RETAINING WALL		

GRADING AND EROSION CONTROL

	EXISTING	PROPOSED
CONTOUR - MAJOR WITH IDENTIFIER	695	695
CONTOUR - MINOR		
CONTOUR - MINOR - DEPRESSION		
ROADWAY - SLOPE INTERCEPT		
SILT FENCE		
SITE - GRADING LIMITS		
SITE - GRADING - RIPRAP BOUNDARY	TYPE 1 TYPE 2	TYPE 1 TYPE 2
SITE - GRADING - RIPRAP PATTERN		
SITE - SPOT ELEVATION	696.80	696.80
SITE - STOCKPILE - TOPSOIL		
TRACKOUT PAD		

WATTLE OR DITCH CHECK	ROCK FILLED FILTER BAG; GENERIC WATTLE; EROSION BALE

DRAINAGE

	EXISTING	PROPOSED
DRAINAGE - DITCH - CENTERLINE		
DRAINAGE - DITCH - EDGE OF WATER		
DRAINAGE - FLOW		
DRAINAGE - POND EDGE		
DRAINAGE - TILE DRAIN	TD	TD
DRAINAGE - ARROW		

ELECTRIC

	EXISTING	PROPOSED
ELECTRICAL - EQUIPMENT	F FIRE ALARM BOX	F FIRE ALARM BOX
ELECTRICAL - JUNCTION BOX		
ELECTRICAL - LIGHT FIXTURE	UTILITY & LIGHT POLE	UTILITY & LIGHT POLE
ELECTRICAL - OVERHEAD CABLE	OHE	OHE
ELECTRICAL - PAVEMENT SENSOR		
ELECTRICAL - PEDESTAL		
ELECTRICAL - POLE	UTILITY POLE WITH TRANSFORMER	UTILITY POLE WITH TRANSFORMER
ELECTRICAL - TOWER		
ELECTRICAL - UNDERGROUND CABLE	E	E
ELECTRICAL - UNDERGROUND DUCT		
ELECTRICAL - UNDERGROUND STRUCTURE	E	E
ELECTRICAL - TRANSFORMER ENCLOSURE		

FUELS

	EXISTING	PROPOSED
FUEL		
NATURAL GAS - APPURTENANCE	PROBE VALVE G METER	PROBE VALVE G METER
NATURAL GAS - PIPE HIGH PRESSURE	GHP	
NATURAL GAS - PIPE MAIN	G	G
NATURAL GAS - PIPE SERVICE	G	G
NATURAL GAS - STRUCTURE	G	G
NATURAL GAS - VENT		

GEOTECHNICAL

	EXISTING	PROPOSED
GEOTECHNICAL - SOILS BOUNDARY		
GEOTECHNICAL - SOIL BORING	BORING #	BORING #

HYDROLOGY

	EXISTING	PROPOSED
EDGE OF WATER - RIVER OR STREAM		
EDGE OF WATER - LAKE OR POND		
FLOODPLAIN - 100 YEAR	100YR	
FLOODPLAIN - NON-REGULATORY		
WETLAND - BOUNDARY		
WETLAND - PATTERN		

LANDSCAPE AND VEGETATION

	EXISTING	PROPOSED
PLANTING - BUSH	CONF. DECD.	CONF. DECD.
PLANTING - EDGE		
PLANTING - EVERGREEN		
PLANTING - GROUND COVER		
PLANTING - SHRUB		
PLANTING - STUMP		
PLANTING - TREE	CONF. 10" DECD. 12"	CONF. 10" DECD. 12"
PLANTING - TREE LINE		

MISCELLANEOUS UTILITY

	EXISTING	PROPOSED
MISC. UTILITY		
MISC. UTILITY - GUY POLE, WIRE, ANCHOR		
MISC. UTILITY - MANHOLE	MH	MH
MISC. UTILITY - OVERHEAD CABLE	OH	OH
MISC. UTILITY - PIPE CASING		
MISC. UTILITY - POLE		
SITE - TRENCH DAM		

SANITARY SEWER

	EXISTING	PROPOSED
SANITARY SEWER (PLAN)	SAN	SAN
SANITARY SEWER (PROFILE)		
SANITARY FORCE MAIN (PLAN)	FM	FM
SANITARY FORCE MAIN (PROFILE)		
SANITARY SEWER - CLEANOUT		
SANITARY SEWER - LIFT STATION	LS	LS
SANITARY SEWER - STRUCTURE	SA	SA

STORM SEWER

	EXISTING	PROPOSED
STORM SEWER (PLAN)	STM	STM
STORM SEWER (PROFILE)		
STORM SEWER - CULVERT		
STORM SEWER - STRUCTURE	ST	ST
STORM SEWER - INLET OR CATCH BASIN		
STORM SEWER - LIFT STATION	LS	LS

WATER SERVICE

	EXISTING	PROPOSED
WATER - PIPE (PLAN)	W	W
WATER - PIPE (PROFILE)		
WATER - IRRIGATION	IRR	IRR
WATER - APPURTENANCE	W	W
WATER - HYDRANT		
WATER - STRUCTURE	W	W
WATER - VALVE	VALVE CURB STOP W	VALVE CURB STOP W
WATER - WELL	W	W

TELECOMMUNICATIONS

	EXISTING	PROPOSED
CABLE TELEVISION - OVERHEAD	OHC	OHC
CABLE TELEVISION - PEDESTAL		
CABLE TELEVISION - UNDERGROUND	CTV	CTV
FIBER OPTIC - UNDERGROUND CABLE	FO	FO
FIBER OPTIC - JUNCTION BOX/STRUCTURE	F	F
TELECOM - MISCELLANEOUS	(util)	(util)
TELEPHONE - BURIED	T	T
TELEPHONE - OVERHEAD CABLE	OHT	OHT
TELEPHONE - PEDESTAL		
TELEPHONE - STRUCTURE	T	T
TELEPHONE - SWITCH		

TRAFFIC CONTROL

	EXISTING	PROPOSED
CONSTRUCTION ACCESS POINT		
TRAFFIC CONTROL - BARREL		
ROADWAY - MARKING CENTER		
ROADWAY - MARKING EDGE		
ROADWAY - MARKING LANE		
ROADWAY - MARKING SYMBOL		
TRAFFIC SIGNAL		
TRAFFIC SIGNAL - EQUIPMENT		
TRAFFIC SIGNAL - JUNCTION BOX	PB	PB
TRAFFIC SIGNAL - LIGHT		
TRAFFIC SIGNAL - STRUCTURE	SI	SI
TRAFFIC SIGNAL - UNDERGROUND LOOP		

STATUS / PHASE

SANITARY SEWER - EXISTING	SAN
SANITARY SEWER - EXISTING SUE LVL A	SAN(A)
SANITARY SEWER - EXISTING SUE LVL B	SAN(B)
SANITARY SEWER - EXISTING SUE LVL C	SAN(C)
SANITARY SEWER - EXISTING SUE LVL D	SAN(D)
SANITARY SEWER - ABANDONED	~~SAN~~
SANITARY SEWER - REMOVED/DEMO	XXXXXSANXXXXX
SANITARY SEWER - PROPOSED	SAN
SANITARY SEWER - FUTURE	

LIST OF STANDARD ABBREVIATIONS

△	CENTRAL ANGLE OR DELTA
ADT	AVERAGE DAILY TRAFFIC
AGGR	AGGREGATE
AH	AHEAD
ASPH	ASPHALT
B/B	BACK TO BACK
BARR	BARRICADE
BOC	BACK OF CURB
BK	BACK
BLDG	BUILDING
BM	BENCH MARK
BSMT	BASEMENT
C	CUT
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
CE	CONSTRUCTION ENTRANCE
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNTY	COUNTY
CO	CLEAN OUT
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONSTR JT	CONSTRUCTION JOINT
CP	CONTROL POINT
CTH	COUNTY TRUNK HIGHWAY
CTRL JT	CONTROL JOINT
CTV	CABLE TV
CU YD	CUBIC YARD
CS	CURB STOP
D	DEGREE OF CURVE
DD	DIRECTIONAL DRILLED
DEG	DEGREE
DIA	DIAMETER
DI	DUCTILE IRON PIPE
DISCH	DISCHARGE
DW	DRIVEWAY
E	EAST
E OR	ELECTRIC (IN LINE STYLES)
EA	EACH
EB	EAST BOUND
EBS	EXCAVATION BELOW SUBGRADE
ECS	EXTERNAL CHIMNEY SEAL
EL	ELEVATION
ELEC	ELECTRIC
EMB	EMBANKMENT
ENTR	ENTRANCE
EP	EDGE OF PAVEMENT
ET	ELECTRIC TRANSFORMER
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING
F	FILL
F/F	FACE TO FACE
FDN	FOUNDATION
FE	FIELD ENTRANCE
FERT	FERTILIZER
FH	FIRE HYDRANT
FIN GR	FINISHED GRADE
FL	FLOW LINE
FM	FORCE MAIN
FO	FIBER OPTIC
FT	FOOT
FTG	FOOTING
G	GAS
GV	GAS VALVE
GW	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HR	HANDICAP RAMP
HSE	HOUSE
HT	HEIGHT
I	INTERSECTION ANGLE
ICS	INTERNAL CHIMNEY SEAL
ID	INSIDE DIAMETER
IN	INCH
INL	INLET
INTERS	INTERSECTION
INV	INVERT
IP	IRON PIPE OR PIN
JCT	JUNCTION
L	LENGTH (OF CURVE)
LC	LONG CHORD OF CURVE
LP	LIGHT POLE
LS	LIFT STATION OR LUMP SUM
LT	LEFT
MAINT	MAINTENANCE
MATL	MATERIAL
MB	MAILBOX
MG	METER-GAS
MH	MANHOLE
MP	MARKER POST
MW	METER-WATER OR MONITORING WELL
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NE	NORTHEAST
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
O	OIL
O&C	OIL & CHIP
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PED	PEDESTAL
PLE	PERMANENT LIMITED EASEMENT
PVMT	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PJF	PRE-FORMED JOINT FILLER
PL	PROPERTY LINE
POC	POINT OF CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PRC URE	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY
PVC OR	POLYVINYL CHLORIDE
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENCY
R	RANGE OR RADIUS
RCP	REINFORCED CONCRETE PIPE
REBAR	REINFORCEMENT BAR
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RL	REFERENCE LINE
ROW	RIGHT-OF-WAY
RP	REFERENCE POINT
RR	RAILROAD
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGE
SAN	SANITARY
SC	STORM CONNECTION
SB	SOUTHBOUND
SDWK	SIDEWALK
SE	SOUTHEAST
SF	SILT FENCE
SIG	SIGNAL
SL	SANITARY LATERAL
SQ FT	SQUARE FEET
SHLDR	SHOULDER
SQ YD	SQUARE YARD
SSD	STOPPING SIGHT DISTANCE
STA	STATION
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STM	STORM OR STORM SEWER
STP	SEWAGE TREATMENT PLANT
STRUCT	STRUCTURE OR STRUCTURAL
SW	SOUTHWEST
TAN	TANGENT
T	TOWN
T OR	TELEPHONE (IN LINE STYLE)
TEL	TELEPHONE
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TOC	TOP OF CURB
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
USH	US HIGHWAY
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
W	WEST
WB	WESTBOUND
WM	WATER MAIN
WS	WATER SERVICE
WTP	WATER TREATMENT PLANT
WV	WATER VALVE
WWTP	WASTE WATER TREATMENT PLANT
YD	YARD

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

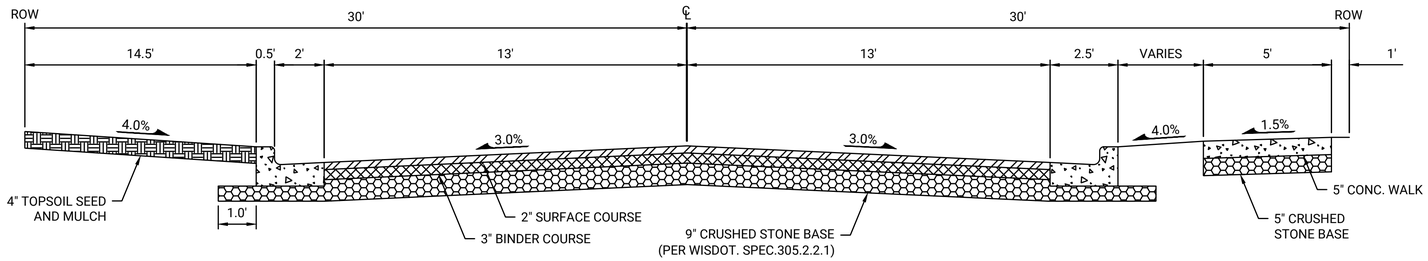
STANDARD LEGEND AND ABBREVIATIONS

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

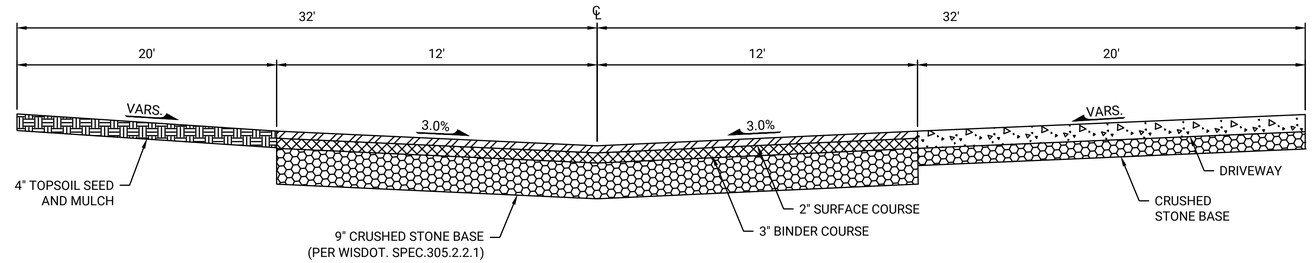
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
G2.00

CAD FILE: C:\PW_WORKGROUP\PW_IED\0067226\G2.00-STANDARD LEGEND AND ABBREVIATIONS.DWG Layout: G2.00 By: ZUBAK, CHRIS



TYPICAL CROSS SECTION
PUBLIC RESIDENTIAL STREET DETAIL



TYPICAL CROSS SECTION
PRIVATE RESIDENTIAL STREET DETAIL

NOTE:

ALL ROAD SUBGRADE WILL BE PROOF ROLLED USING A FILLED TRI-AXLE TRUCK PRIOR TO THE INSTALLATION OF ANY AGGREGATE BASE COURSE.

AREAS THAT DO NOT PASS THE PROOF FILL WILL BE EXCAVATED A MINIMUM OF 2' AND RE-COMPACTED TO THE APPROVAL OF THE VILLAGE ENGINEER.

ASPHALT TYPE TO BE PER VILLAGE ENGINEERING SPECIFICATIONS.

ROADWAY TO BE CENTERED WITHIN RIGHT OF WAY.

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

TYPICAL SECTIONS

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PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
G3.00

CAD FILE: C:\PW_WORKDIR\PW_IED\0067226\G3.XX-TYPICAL SECTIONS.DWG Layout: G3.00 By: ZUBAK, CHRIS

CALVIN MARTINEZ
PARCEL #: 314985

WILLIAM & CARLA SHUBERT
PARCEL #: 323985

PROPERTY LINE (TYP)

WETLAND BOUNDARY

DENNIS & KATHLEEN SCHNEIDER
PARCEL #: 314986

CARRIE RAMOS & KRISTIE LESWING
PARCEL #: 323995

EUGENE & CARLENE SCHUSTER
PARCEL #: 323992

RONALD & KATHLEEN SCHNEIDER
PARCEL #: 314987

GIDGET STROIK
PARCEL #: 3144997

TAMARA SCHNEIDER
PARCEL #: 3144998

CARRIE RAMOS & KRISTIE LESWING
PARCEL #: 323986

CARRIE RAMOS & KRISTIE LESWING
PARCEL #: 323987

RICHARD & DARCEL EHLEY
PARCEL #: 323988

MARK & NANCY
BARELMANN
PARCEL #: 323989

SCOTT SCHROEDER
PARCEL #: 323990

WISCONSIN ELECTRIC
PARCEL #: 324992

CTH 'Y'

CTH 'Q'

SB-01 SB-02 SB-03 SB-04 SB-05 SB-06 SB-07 SB-08 SB-09 SB-10 SB-11 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21 SB-22 SB-23 SB-24 SB-25 SB-26

0 150 300
scale feet

PREPARED FOR:
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MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

EXISTING CONDITIONS

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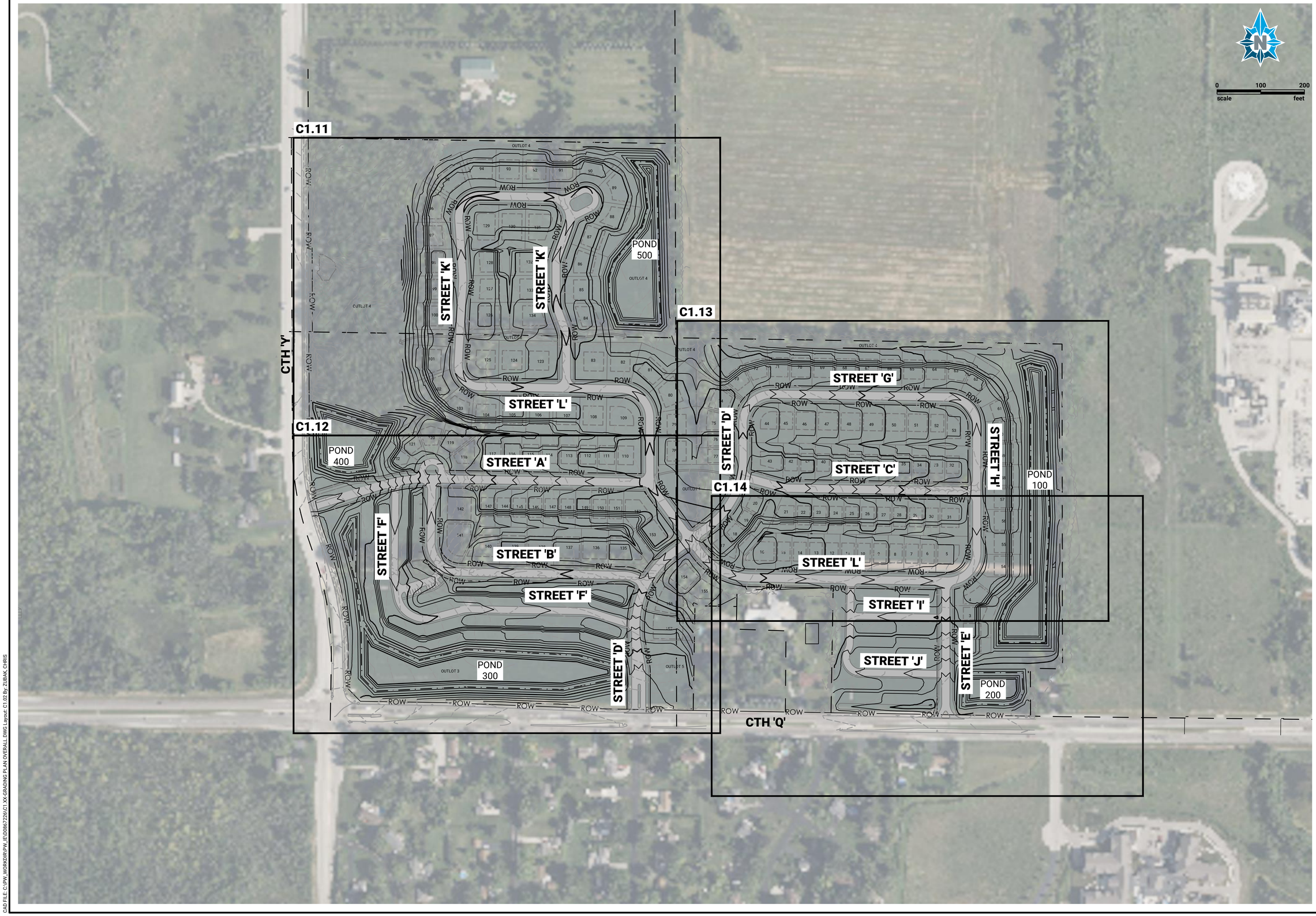
SHEET NO.
C1.01

CAD FILE: C:\PW_WORKDIR\PW_JED\D0067226\C1 XX EXISTING CONDITIONS.DWG Layout: C1.01 By: ZIBIAK, CHRIS



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MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

GRADING PLAN SHEET LAYOUT

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SHEET NO.

C1.02

CAD FILE: C:\PW_WORKDIR\PW_IED\0025\7226\C1.XX-GRADING PLAN OVERALL.DWG Layout: C1.02 By: ZJBIAK, CHRIS

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MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

GRADING PLAN

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SHEET NO.

C1.04

0 50 100
scale feet

SEE SHEET C1.06 FOR CONTINUATION

SEE SHEET C1.05 FOR CONTINUATION

CAD FILE: C:\PW_WORKDIR\PW_JED\D0067226\C1 XX GRADING PLAN DETAILED.DWG Layout: C1.04 By: ZUBAK, CHRIS

© Foth

SEE SHEET C1.04 FOR CONTINUATION

SEE SHEET C1.07 FOR CONTINUATION

STREET 'A'
STREET 'B'
STREET 'D'
STREET 'F'
STREET 'I'
STREET 'J'
CTH 'Q'
CTH 'Y'
OUTLOT 1
OUTLOT 3
OUTLOT 5
POND 400
POND 300
ROW
STM
scale 0 50 100 feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

GRADING PLAN

SUBJECT TO CHANGE
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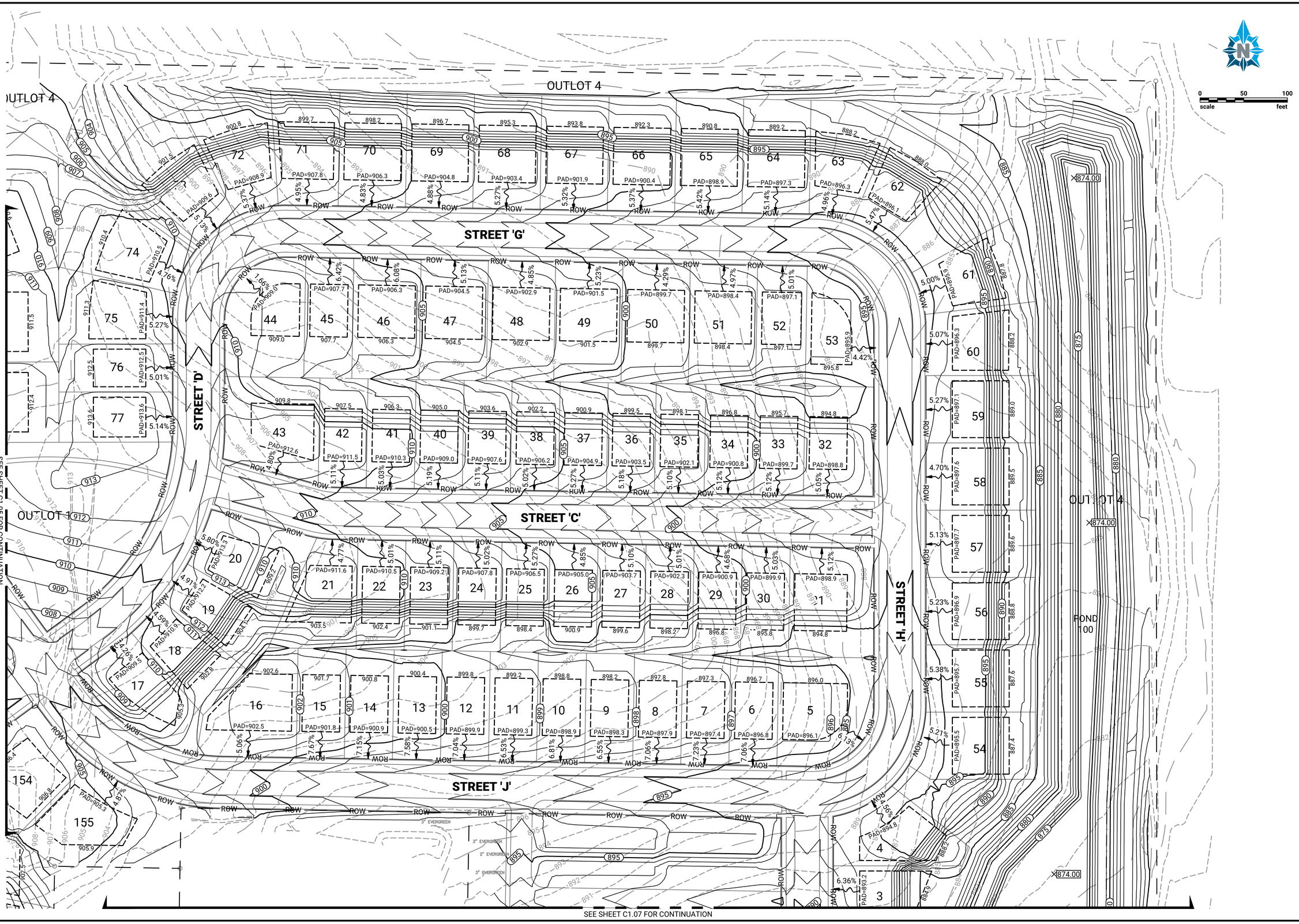
SHEET NO.
C1.05

CAD FILE: C:\PW_WORKDIR\PW_JE0086726\C1.XX GRADING PLAN DETAILED DWG Layout: C1.05 By: ZUBAK, CHRIS



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HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

GRADING PLAN

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

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SHEET NO.

C1.06

CAD FILE: C:\PW_WORKDIR\PW_JE0086725\Dc1.XX GRADING PLAN DETAILED DWG Layout: C1.06 By: ZUBAK, CHRIS

SEE SHEET C1.06 FOR CONTINUATION

SEE SHEET C1.05 FOR CONTINUATION

STREET 'J'

STREET 'H'

STREET 'E'

CTH 'Q'

POND 100

POND 200

OUTLOT 4

scale 0 50 100 feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

GRADING PLAN

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

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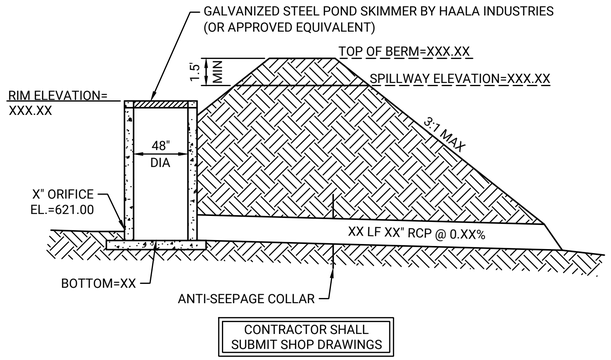
PROJECT NO: 0025H025.00

PRINT DATE: 3/25/2025

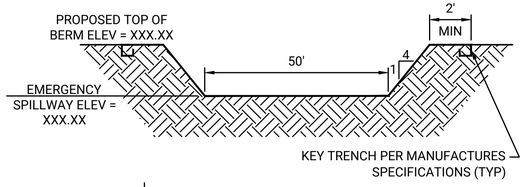
SHEET NO.
C1.07

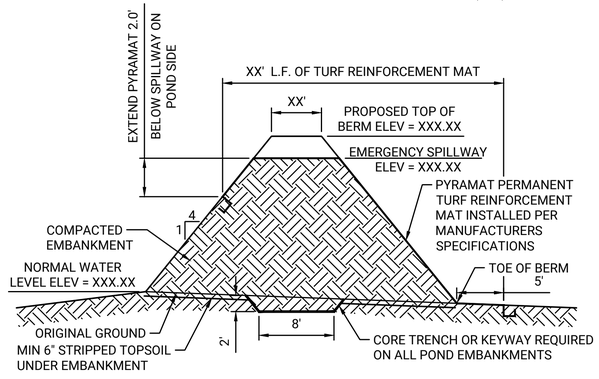
CAD FILE: C:\PW_WORKDIR\PW_JED086722\6\C1.XX GRADING PLAN DETAILED.DWG Layout: C1.07 By: ZUBAK, CHRIS



01 POND 100 OUTLET CONTROL DETAIL

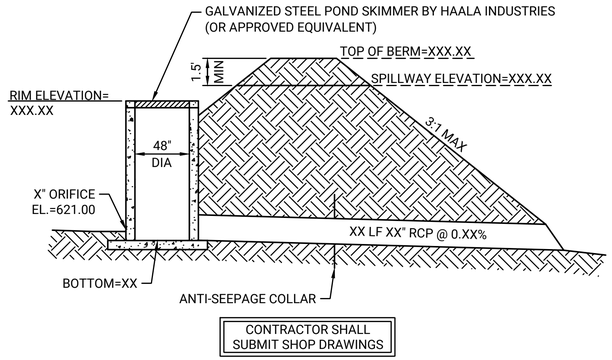
SCALE: NONE





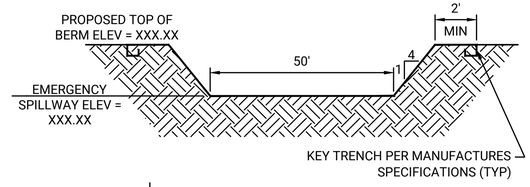
02 POND 100 EMERGENCY SPILLWAY DETAIL

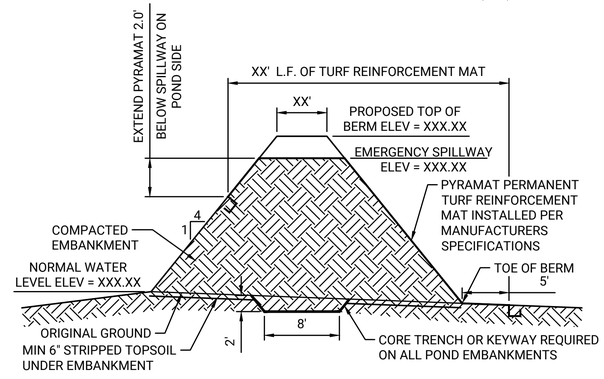
SCALE: NONE



03 POND 200 OUTLET CONTROL DETAIL

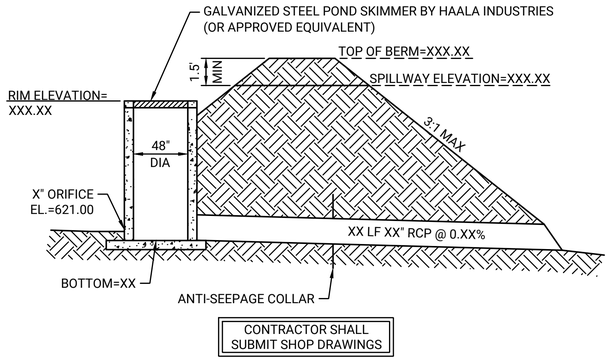
SCALE: NONE





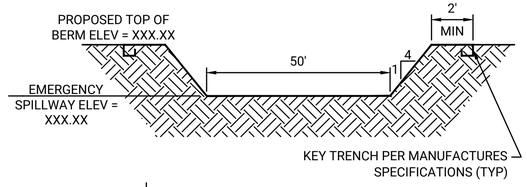
04 POND 200 EMERGENCY SPILLWAY DETAIL

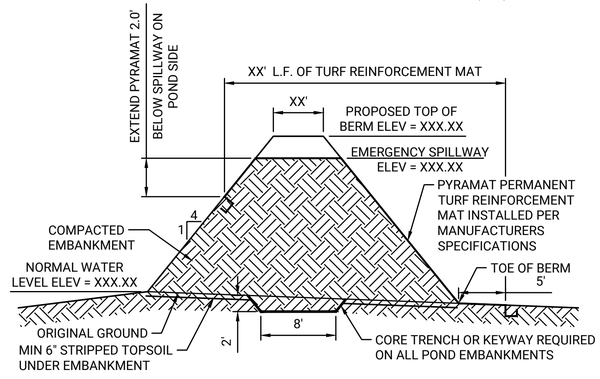
SCALE: NONE



05 POND 300 OUTLET CONTROL DETAIL

SCALE: NONE





06 POND 300 EMERGENCY SPILLWAY DETAIL

SCALE: NONE

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

DRAINAGE POND DETAILS

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

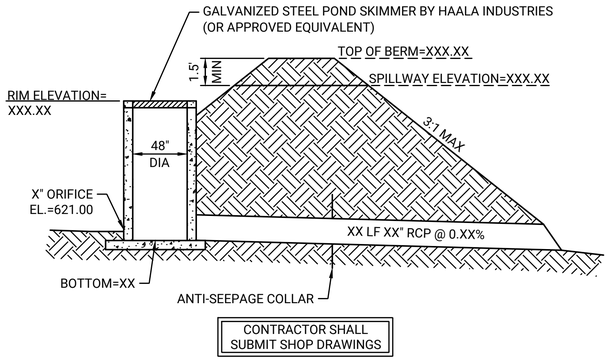
PROJECT NO: 0025H025.00

PRINT DATE: 3/25/2025

SHEET NO.

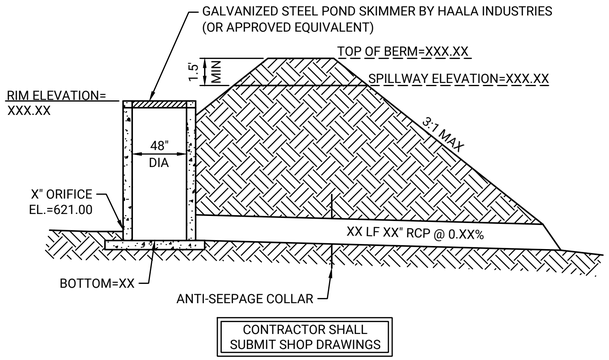
C1.08

CAD FILE: C:\PW_WORKDIR\PW_JED\D0067226\C1.XX-DRAINAGE BASIN DETAILS.DWG Layout: C1.08 By: ZUBAK, CHRIS



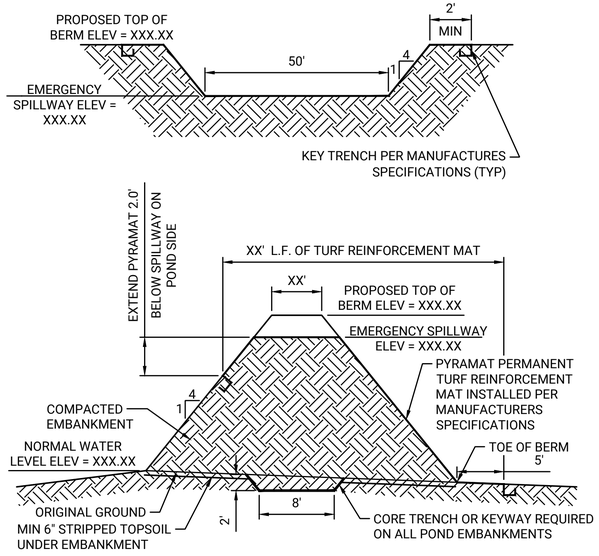
01 POND 400 OUTLET CONTROL DETAIL

SCALE: NONE



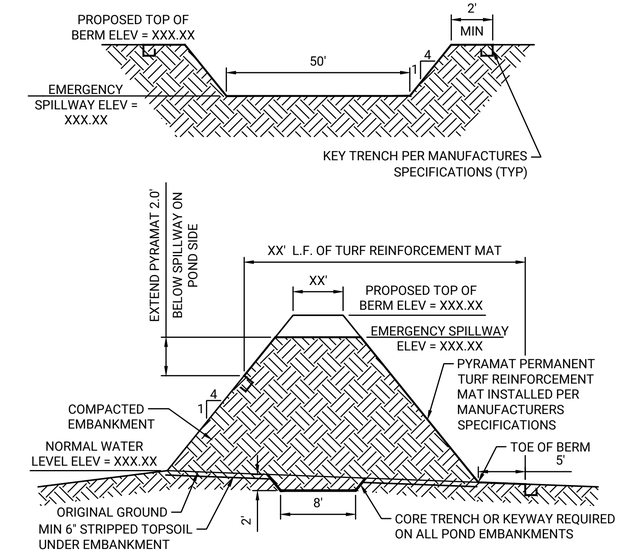
03 POND 500 OUTLET CONTROL DETAIL

SCALE: NONE



02 POND 400 EMERGENCY SPILLWAY DETAIL

SCALE: NONE



04 POND 500 EMERGENCY SPILLWAY DETAIL

SCALE: NONE

CAD FILE: C:\PW_WORKDIR\PW_JE\D0867226\C1.XX DRAINAGE BASIN DETAILS.DWG Layout: C1.09 By: ZUBAK, CHRIS

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

DRAINAGE POND DETAILS

SUBJECT TO CHANGE
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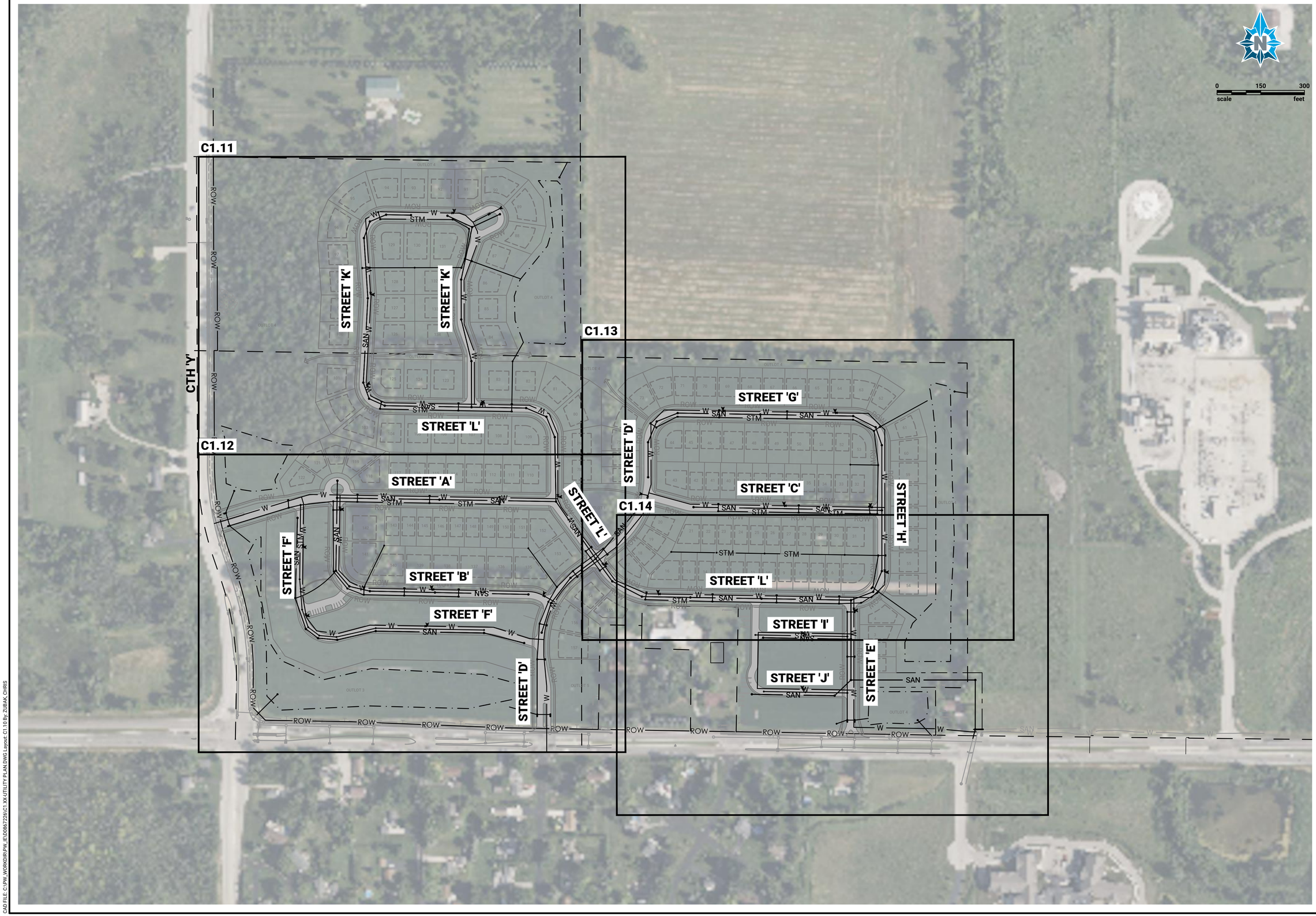
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00

PRINT DATE: 3/25/2025

SHEET NO.

C1.09



PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

UTILITY SYSTEM PLAN SHEET LAYOUT

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

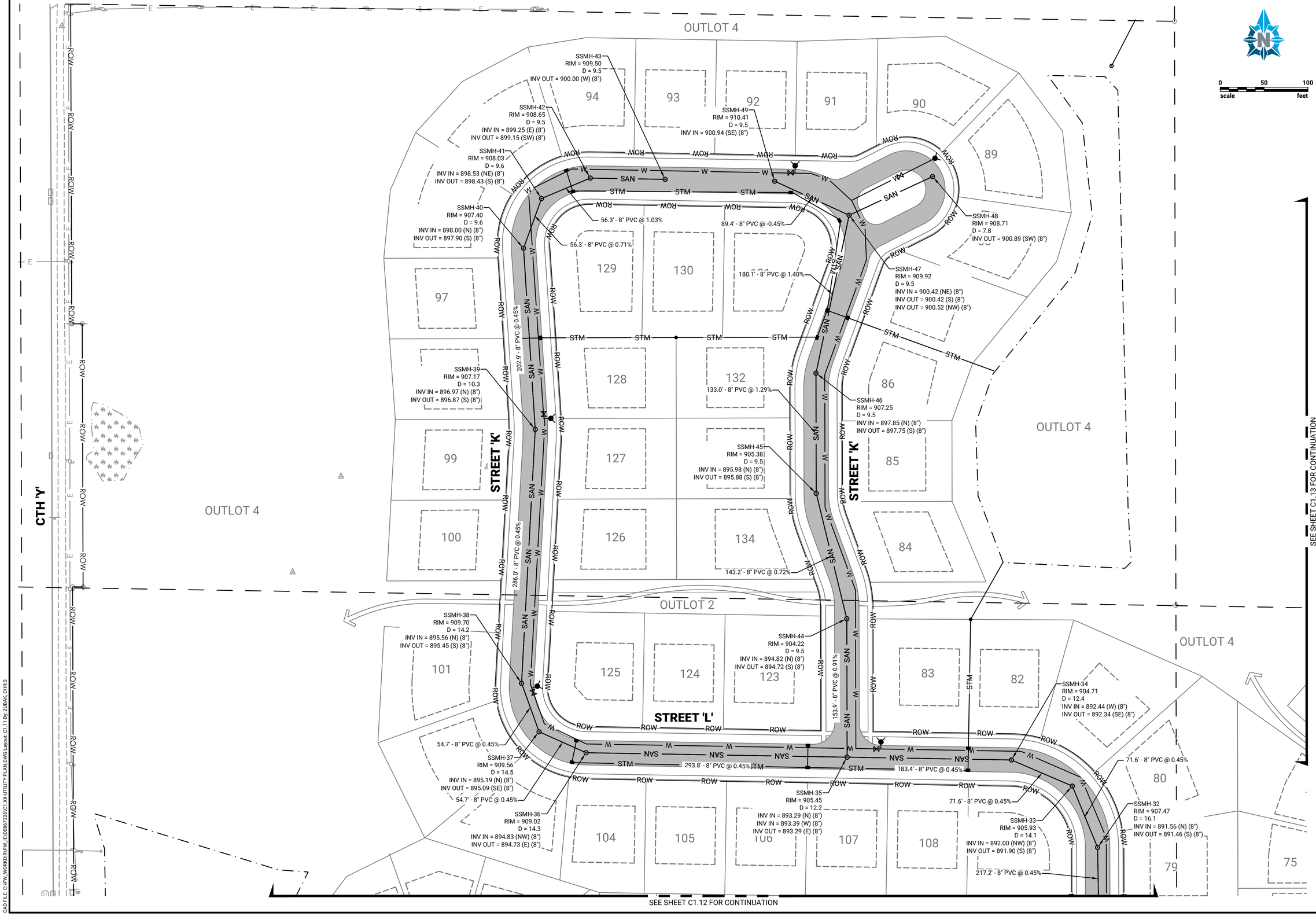
PROJECT NO: 0025H025.00

PRINT DATE: 3/25/2025

SHEET NO.

C1.10

CAD FILE: C:\PW_WORKDIR\PW_JED086729\Dir1 XX-UTILITY PLAN.DWG Layout: C1.10 By: ZJBAK, CHRIS



0 50 100
scale feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

UTILITY SYSTEM PLAN

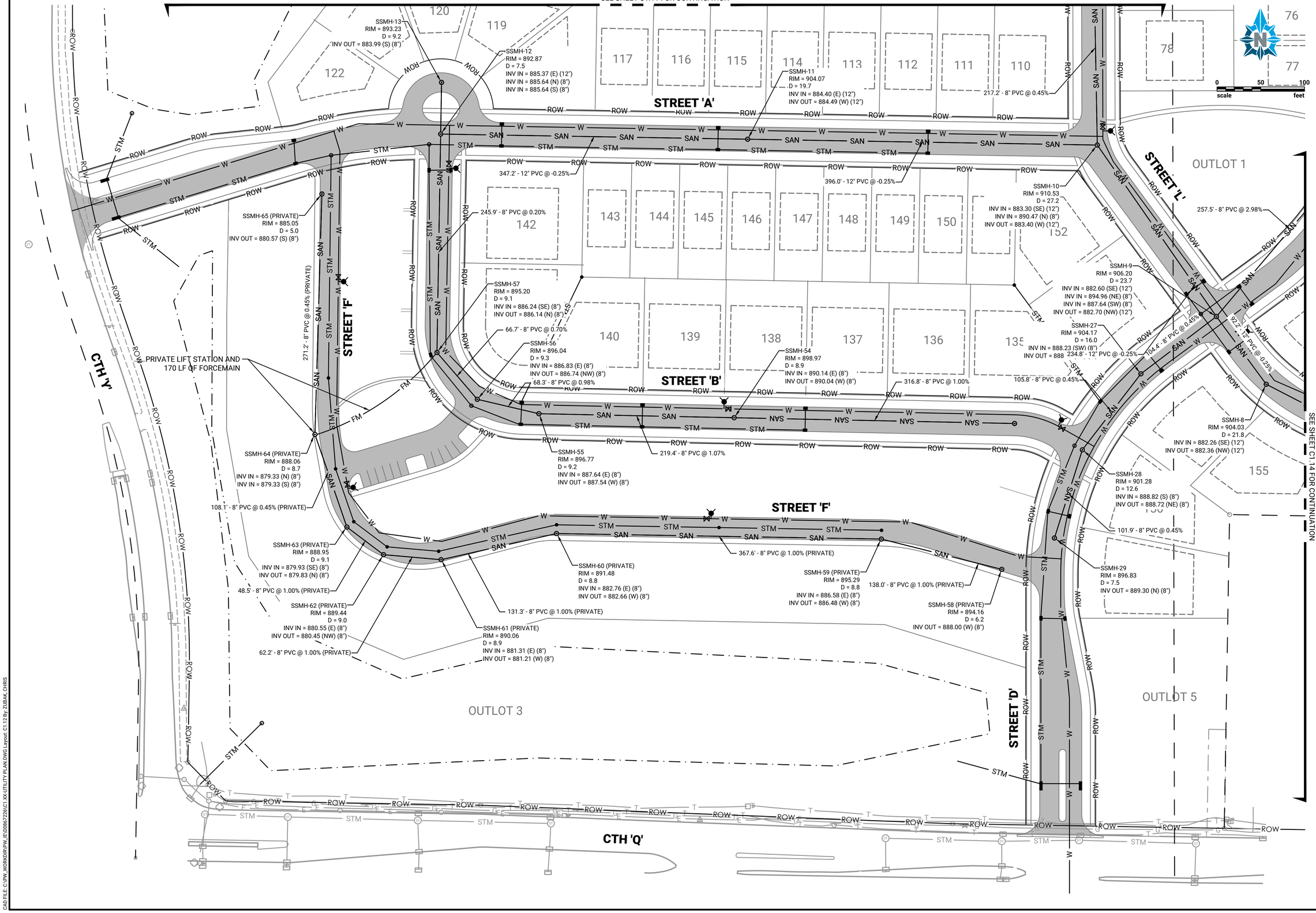
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C1.11

CAD FILE: C:\PW_WORKDIR\PW_IE\D0867226\C1.XX-UTILITY PLAN.DWG Layout: C1.11 By: ZJBAK, CHRIS

SEE SHEET C1.11 FOR CONTINUATION



PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

UTILITY SYSTEM PLAN

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C1.12

CAD FILE: c:\PW_WORKDIR\PW_IED\0067226\C1 XX-UTILITY PLAN.DWG Layout: C1.12 By: ZUBAK, CHRIS

OUTLOT 4

OUTLOT 4

STREET 'G'

STREET 'D'

STREET 'C'

STREET 'L'

STREET 'I'

STREET 'H'

OUTLOT 1

OUTLOT 4

SEE SHEET C1.12 FOR CONTINUATION

SEE SHEET C1.14 FOR CONTINUATION

SSMH-23
RIM = 907.80
D = 9.6
INV IN = 898.20 (E) (8")
INV OUT = 898.30 (SW) (8")

73.5' - 8" PVC @ -1.90%

SSMH-22
RIM = 906.24
D = 9.6
INV IN = 896.64 (E) (8")
INV OUT = 896.74 (W) (8")

279.6' - 8" PVC @ -1.93%

SSMH-21
RIM = 900.66
D = 9.6
INV IN = 891.06 (E) (8")
INV OUT = 891.16 (W) (8")

314.9' - 8" PVC @ -1.78%

SSMH-20
RIM = 894.49
D = 9.2
INV IN = 885.29 (SE) (8")
INV OUT = 885.39 (W) (8")

82.2' - 8" PVC @ -0.45%

SSMH-18
RIM = 893.82
D = 9.5
INV OUT = 884.90 (NW) (8")
INV OUT = 884.32 (S) (15")

61.2' - 15" PVC @ 0.18%

SSMH-17
RIM = 894.09
D = 10.0
INV IN = 884.20 (N) (15")
INV OUT = 884.10 (S) (15")

SSMH-24
RIM = 909.37
D = 9.6
INV IN = 899.77 (NE) (8")
INV OUT = 899.87 (S) (8")

116.0' - 8" PVC @ -1.89%

SSMH-25
RIM = 911.64
D = 9.5
INV IN = 902.14 (N) (8")

SSMH-26
RIM = 911.99
D = 9.2
INV OUT = 902.74 (SW) (8")

257.5' - 8" PVC @ 2.98%

SSMH-31
RIM = 909.63
D = 9.5
INV IN = 900.13 (E) (8")

238.8' - 8" PVC @ -2.35%

SSMH-30
RIM = 903.83
D = 9.5
INV IN = 894.33 (E) (8")
INV OUT = 894.43 (W) (8")

399.9' - 8" PVC @ -2.49%

SSMH-16
RIM = 895.76
D = 12.2
INV IN = 883.70 (N) (15")
INV OUT = 883.60 (S) (15")
INV OUT = 884.28 (W) (8")

204.4' - 15" PVC @ 0.18%

SSMH-9
RIM = 906.20
D = 23.7
INV IN = 894.00 (SE) (12")
INV IN = 894.96 (NE) (8")
INV IN = 887.64 (SW) (8")
INV OUT = 882.70 (NW) (12")

92.2' - 12" PVC @ -0.25%

SSMH-15
RIM = 893.25
D = 10.1
INV IN = 883.23 (N) (15")
INV OUT = 883.13 (SW) (15")

73.3' - 15" PVC @ 0.18%

77.4' - 15" PVC @ 0.18%

SSMH-8
RIM = 904.03
D = 21.8
INV IN = 882.26 (SE) (12")
INV OUT = 882.36 (NW) (12")

0.2' - 12" PVC @ -0.25%

SSMH-7
RIM = 901.78
D = 19.9
INV IN = 881.87 (E) (12")
INV OUT = 881.97 (NW) (12")

240.1' - 12" PVC @ -0.25%

SSMH-5
RIM = 896.58
D = 15.9
INV IN = 880.65 (E) (12")
INV OUT = 880.75 (W) (12")

303.0' - 12" PVC @ -0.25%

SSMH-4
RIM = 893.56
D = 13.9
INV IN = 882.75 (E) (15")
INV OUT = 879.63 (S) (15")
INV OUT = 879.88 (W) (12")

130.0' - 15" PVC @ 0.18%

SSMH-14
RIM = 892.97
D = 10.1
INV IN = 882.99 (NE) (15")
INV OUT = 882.89 (W) (15")

219.5' - 15" PVC @ 0.18%

3" EVERGREEN

3" EVERGREEN

0 50 100
scale feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

UTILITY SYSTEM PLAN

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C1.13

CAD FILE: G:\PW_WORKS\PW_IED\0025\726\C1 XX UTILITY PLAN DWG Layout: C1.13 by: ZUBAK, CHRIS

SEE SHEET C1.13 FOR CONTINUATION

SEE SHEET C1.12 FOR CONTINUATION

STREET 'L'

STREET 'H'

STREET 'I'

STREET 'E'

STREET 'J'

CTH 'Q'

OUTLOT 4

SSMH-50 (PRIVATE)
RIM = 892.96
D = 8.9
INV OUT = 884.02 (E) (8")

297. 297.4' - 8" PVC @ 1.38%'ATE)

SSMH-3
RIM = 890.02
D = 10.7
INV IN = 879.39 (N) (15")
INV IN = 879.87 (W) (8")
INV OUT = 879.29 (S) (15")

136.2' - 15" PVC @ 4.63%

73.6' - 8" PVC @ -0.45% (PRIVATE)

280. 280.2' - 8" PVC @ -1.24%'ATE)

SSMH-52 (PRIVATE)
RIM = 886.86
D = 9.5
INV IN = 877.36 (E) (8")

SSMH-51 (PRIVATE)
RIM = 883.24
D = 9.5
INV IN = 873.74 (NE) (8")
INV OUT = 873.84 (W) (8")

SSMH-2
RIM = 883.99
D = 11.3
INV IN = 872.81 (N) (15")
INV OUT = 872.71 (E) (15")
INV OUT = 873.39 (SW) (8")

422.7' - 15" PVC @ 1.64%

50.00' SANITARY SEWER EASEMENT

SSMH-1
RIM = 875.11
D = 9.5
INV IN = 865.71 (W) (15")
INV OUT = 865.61 (S) (15")

165.7' - 15" PVC @ 0.18%

EX SSMH-1
RIM = 875.56
D = 28.9
INV IN = 865.30 (N) (15")
INV IN = 847.49 (S) (8")
INV IN = 856.76 (W) (15")
INV OUT = 846.66 (E) (18")

25.7' - 18" PVC @ 0.07%

29.8' - 8" PVC @ 1.00%

0 50 100
scale feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

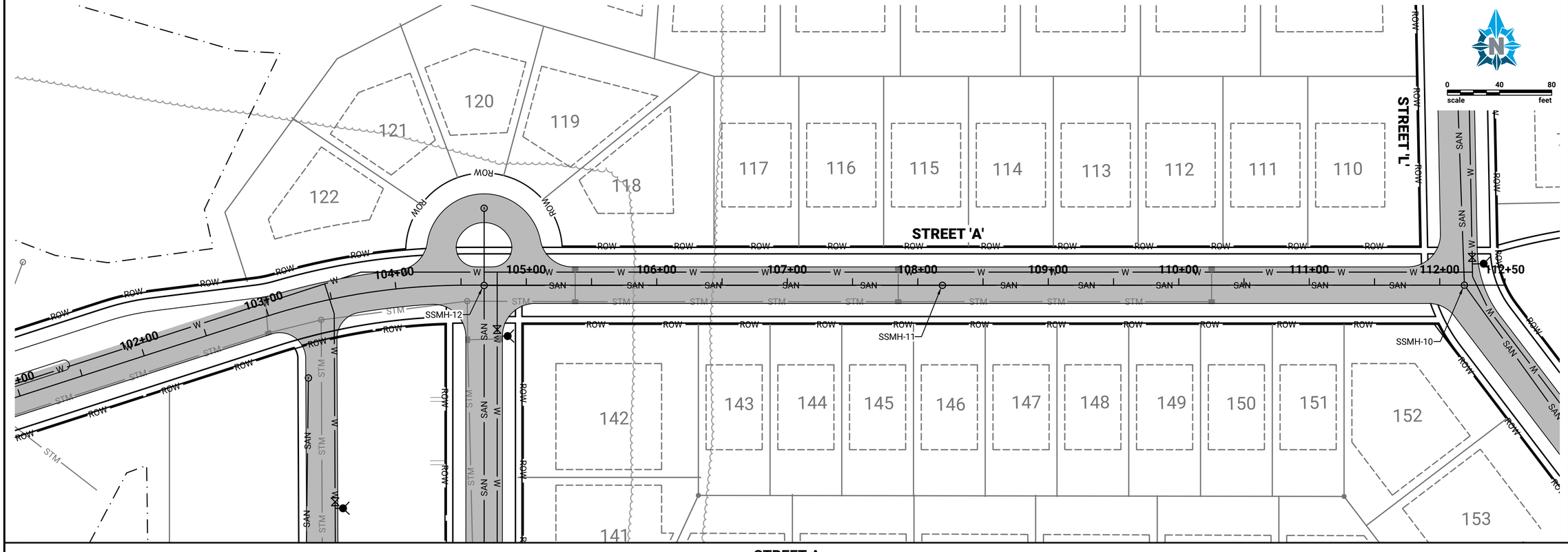
UTILITY SYSTEM PLAN

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

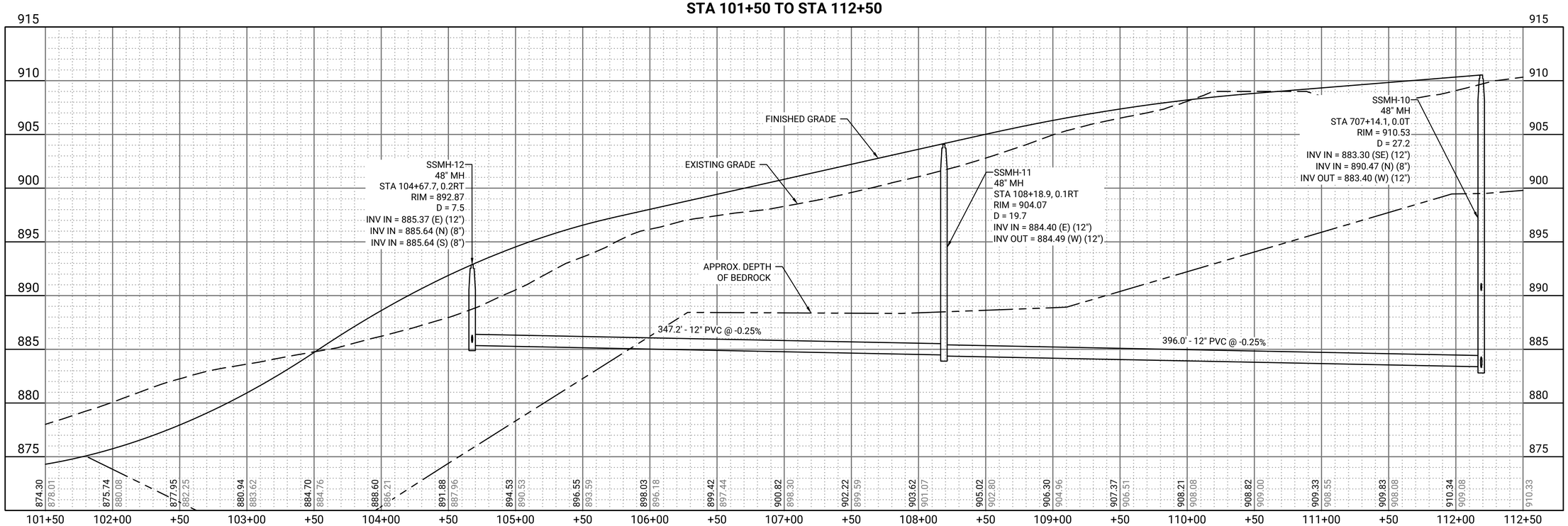
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C1.14

CAD FILE: C:\PW_WORKDIR\PW_IE\D0867226\C1 XX-UTILITY PLAN.DWG Layout: C1.14 By: ZUBAK, CHRIS



STREET A
STA 101+50 TO STA 112+50



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

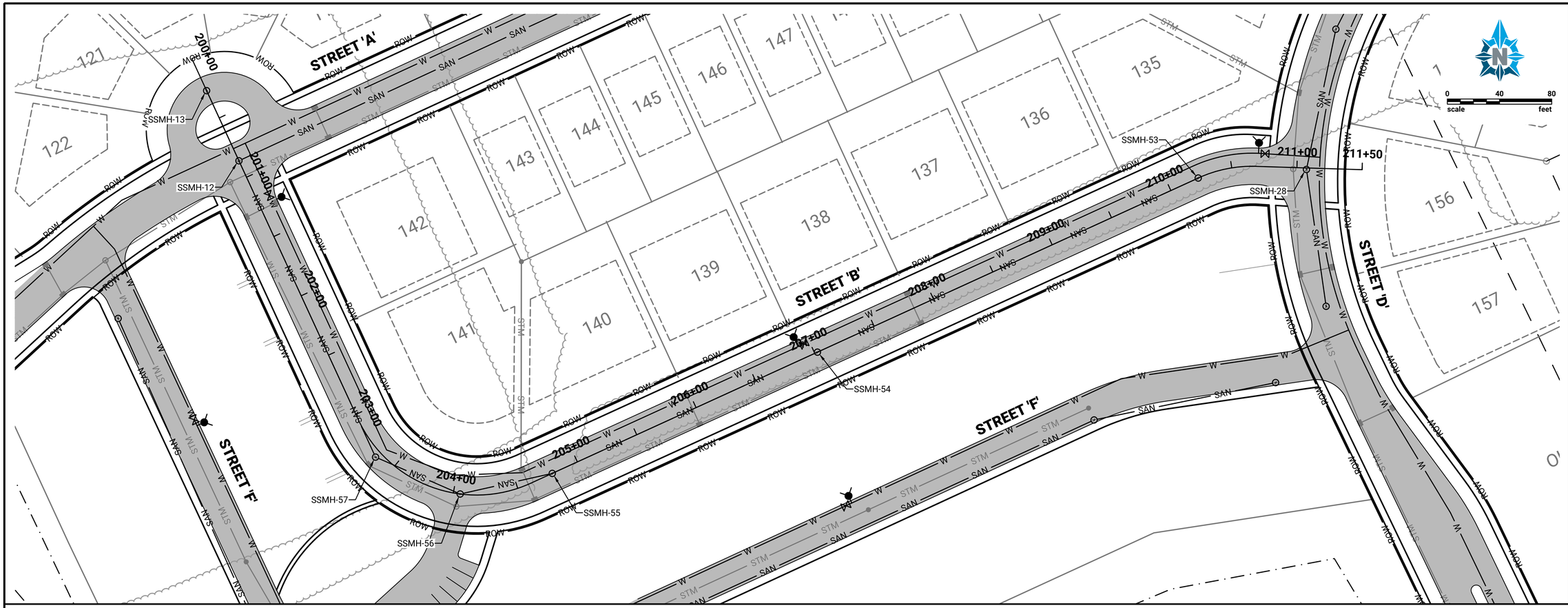
SANITARY SEWER PLAN AND PROFILE STREET A

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

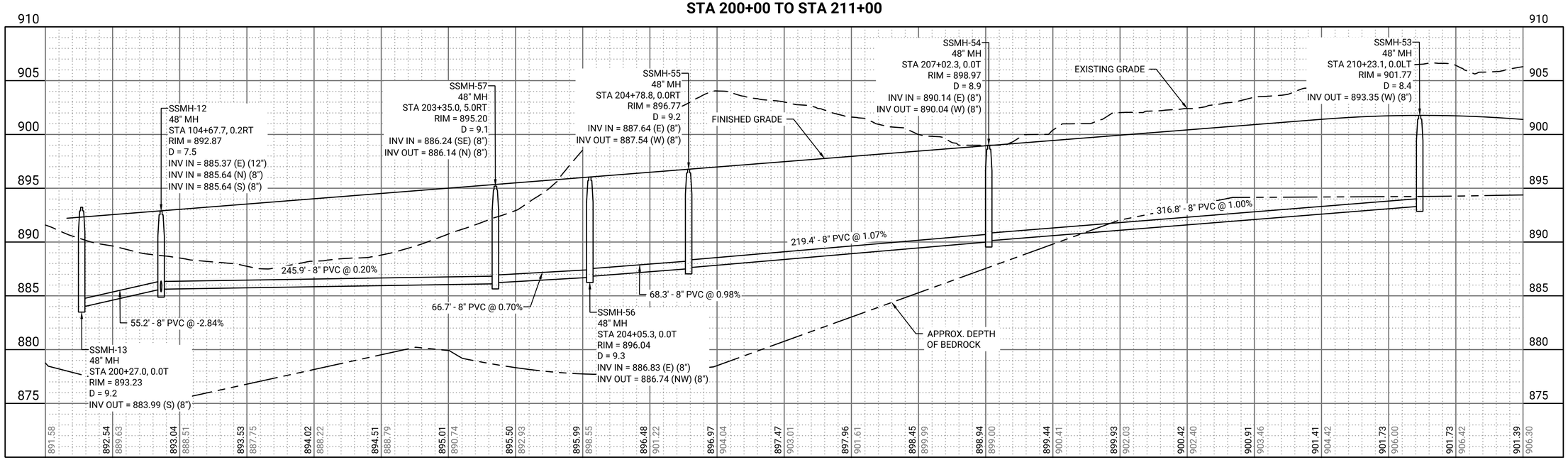
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.01

CAD FILE: C:\PW_WORKDIR\PW_JEID0867236\C2 XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.01 By: ZUBAK, CHRIS



STREET B
STA 200+00 TO STA 211+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

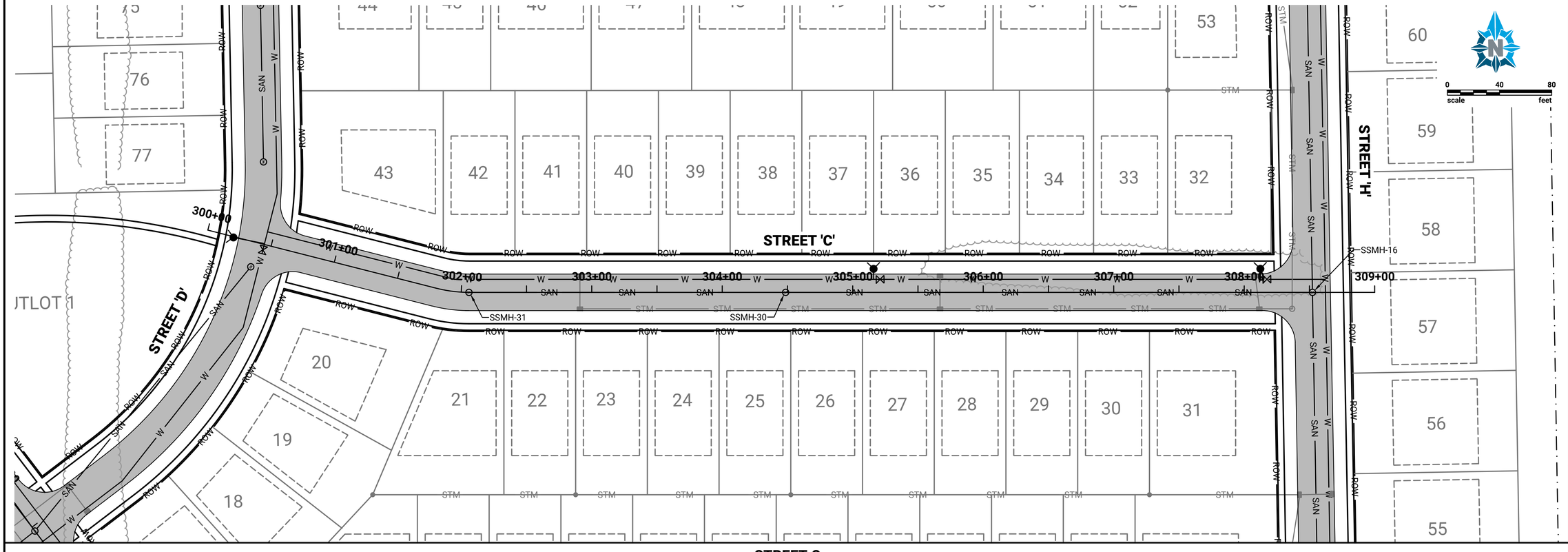
SANITARY SEWER PLAN AND PROFILE
STREET B

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

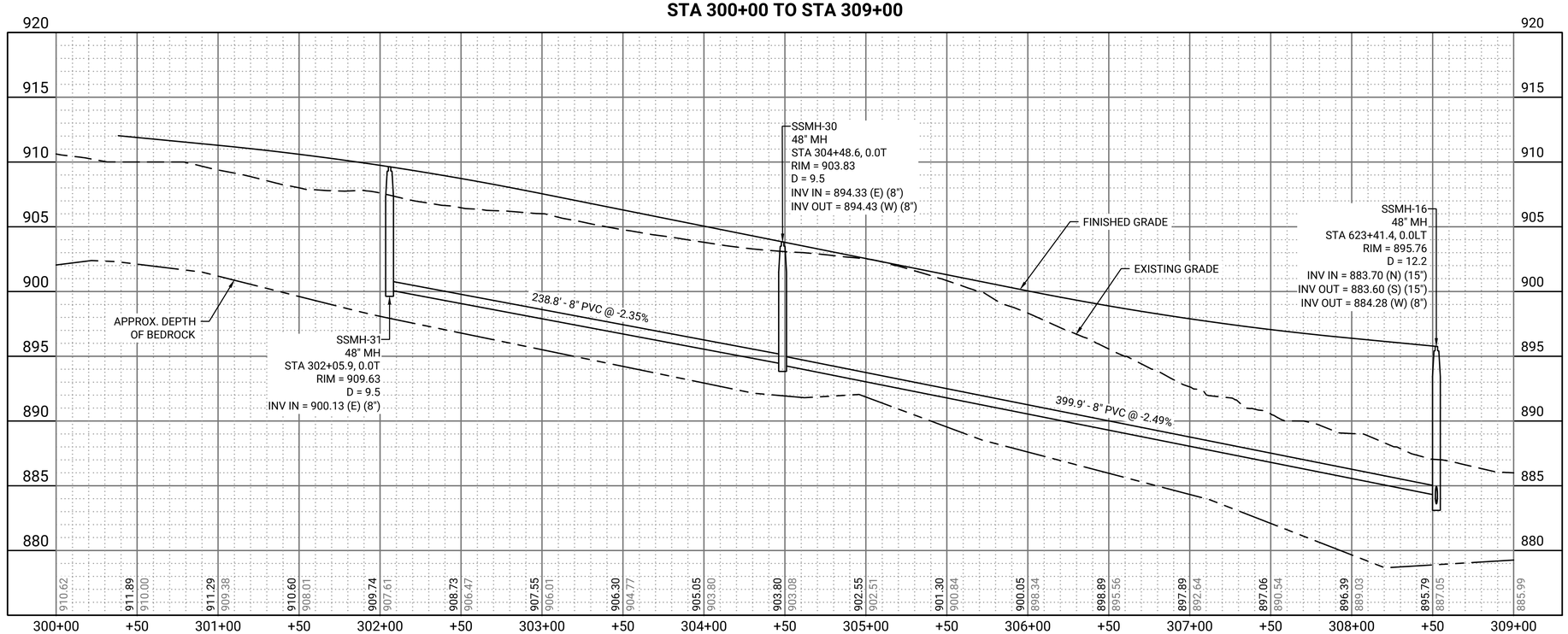
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.02

CAD FILE: C:\PW_WORKDIR\PW_JE\D0867226\C2.XX-SAN & WAT PLAN AND PROFILE.DWG Layout: C2.02 By: ZUBAK, CHRIS



STREET C
STA 300+00 TO STA 309+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

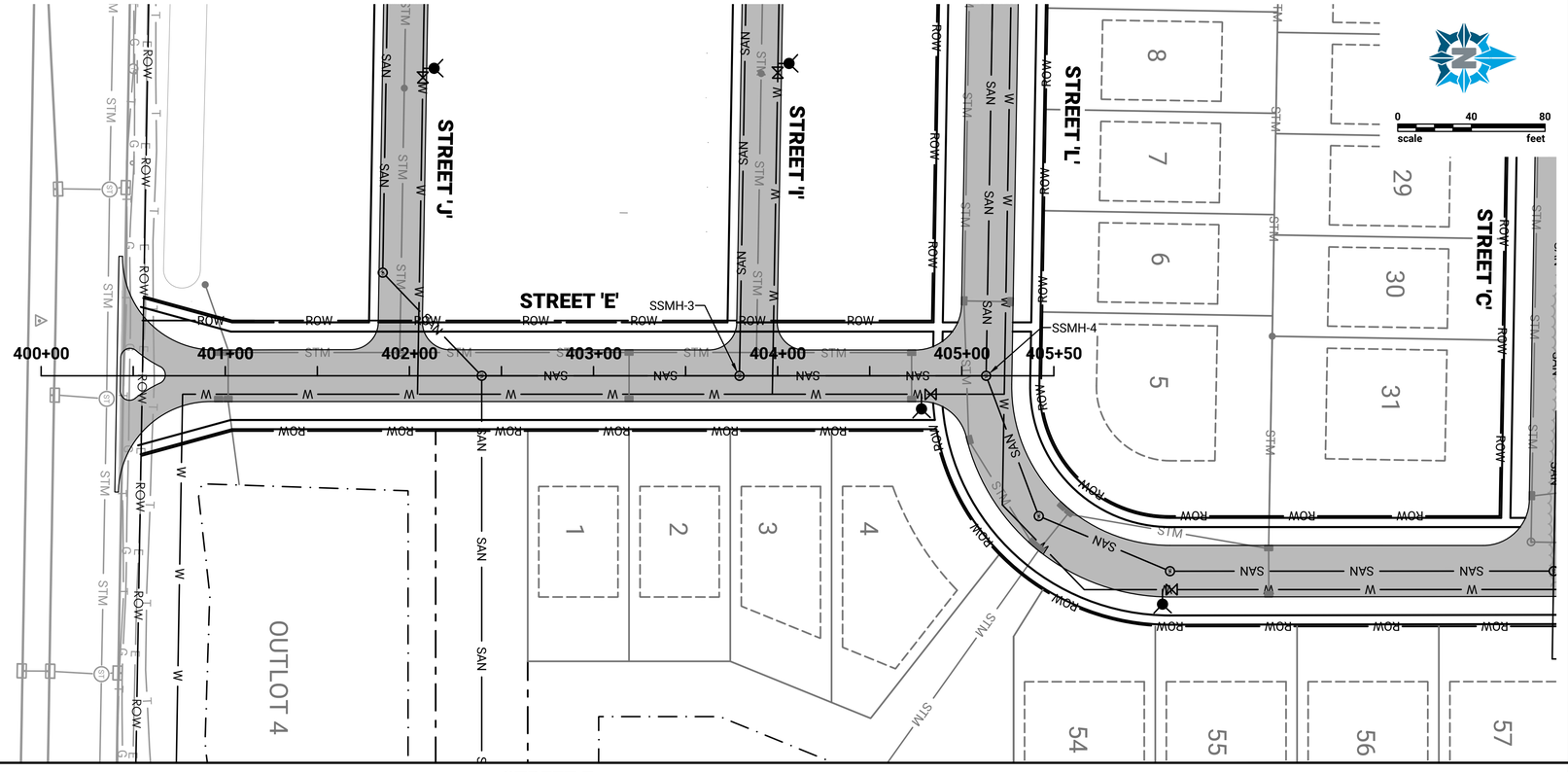
SANITARY SEWER PLAN AND PROFILE
STREET C

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

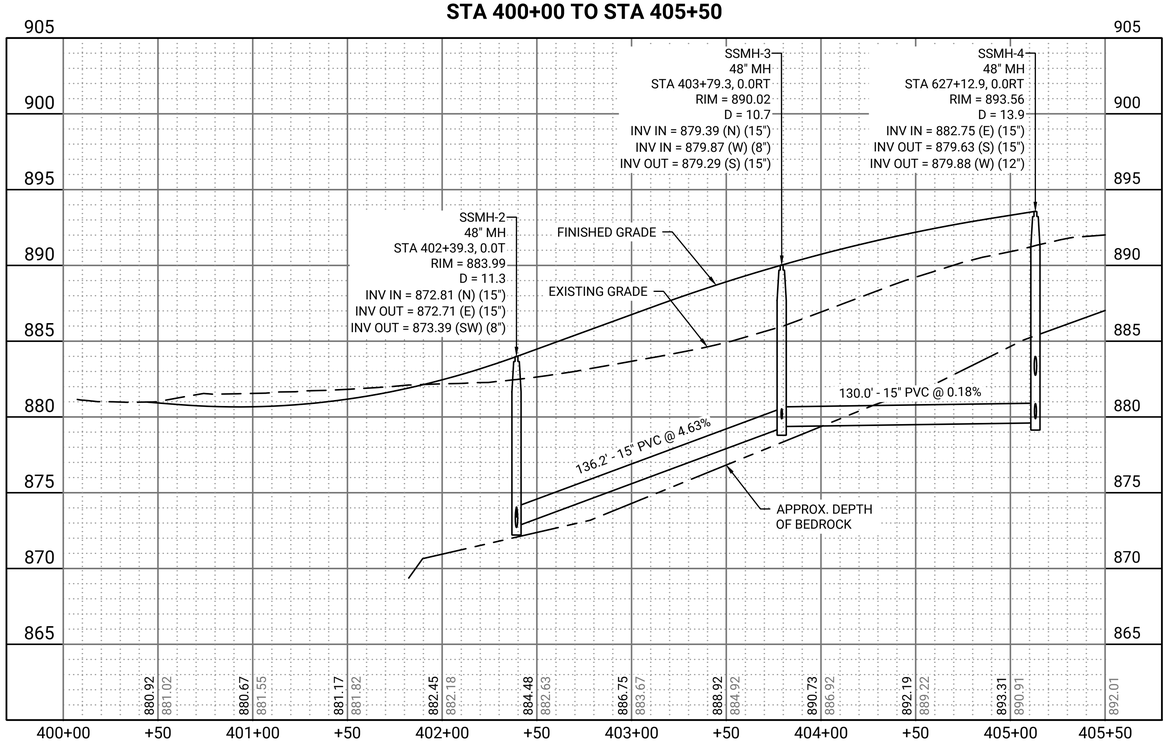
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.03

CAD FILE: C:\PW_WORKDIR\PW_JEID0867226\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.03 By: ZUBAK, CHRIS



STREET E
STA 400+00 TO STA 405+50



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

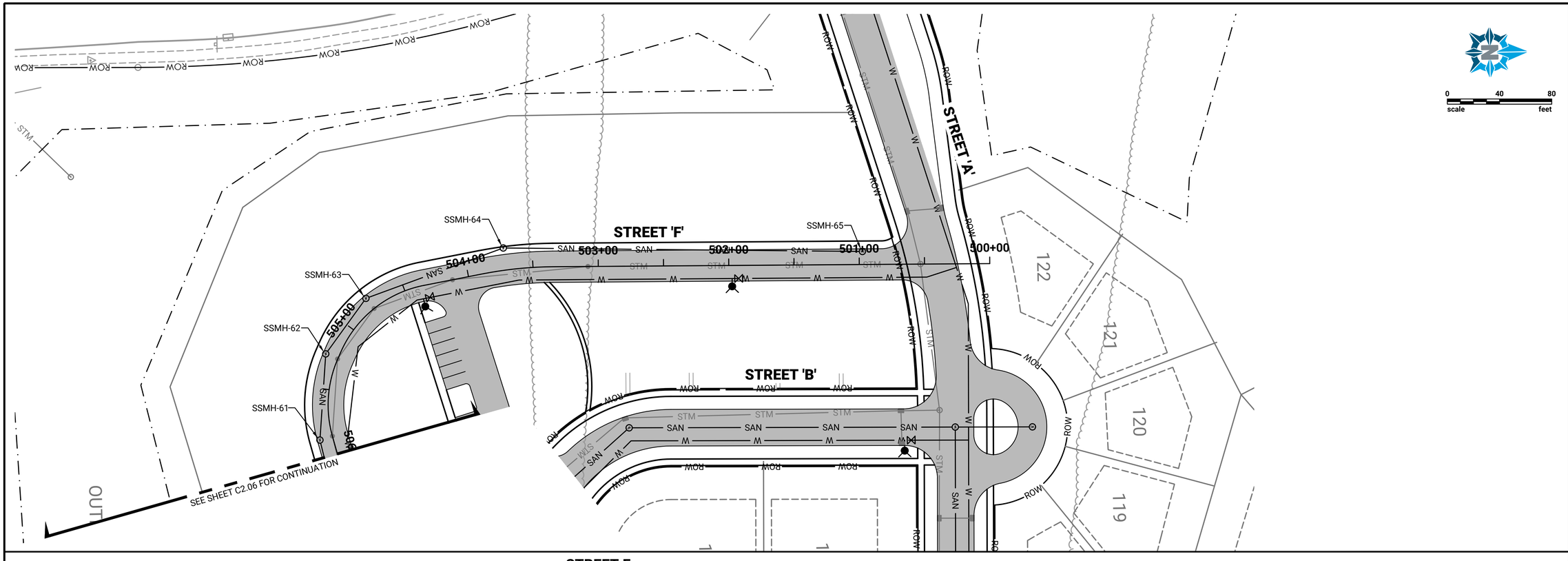
SANITARY SEWER PLAN AND PROFILE
STREET E

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

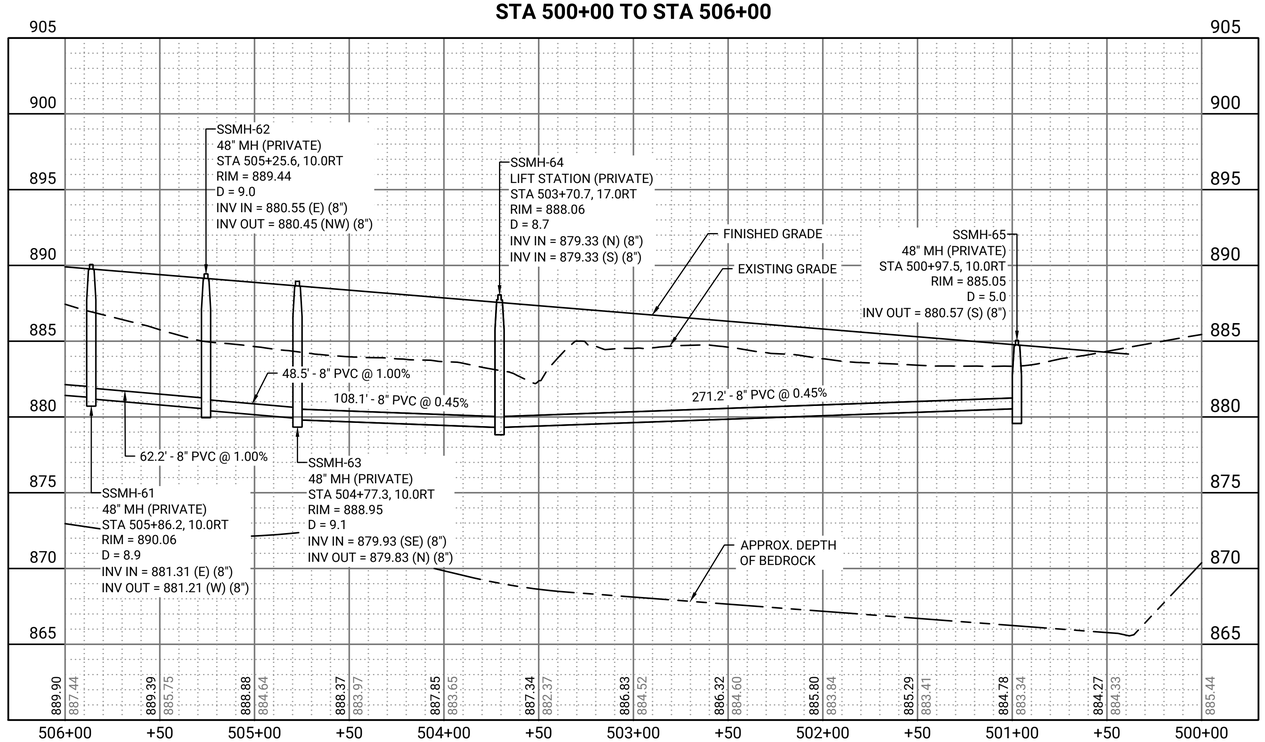
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.04

CAD FILE: C:\PW_WORKDIR\PW_JEID0867226\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.04 By: ZUBAK, CHRIS



STREET F
STA 500+00 TO STA 506+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

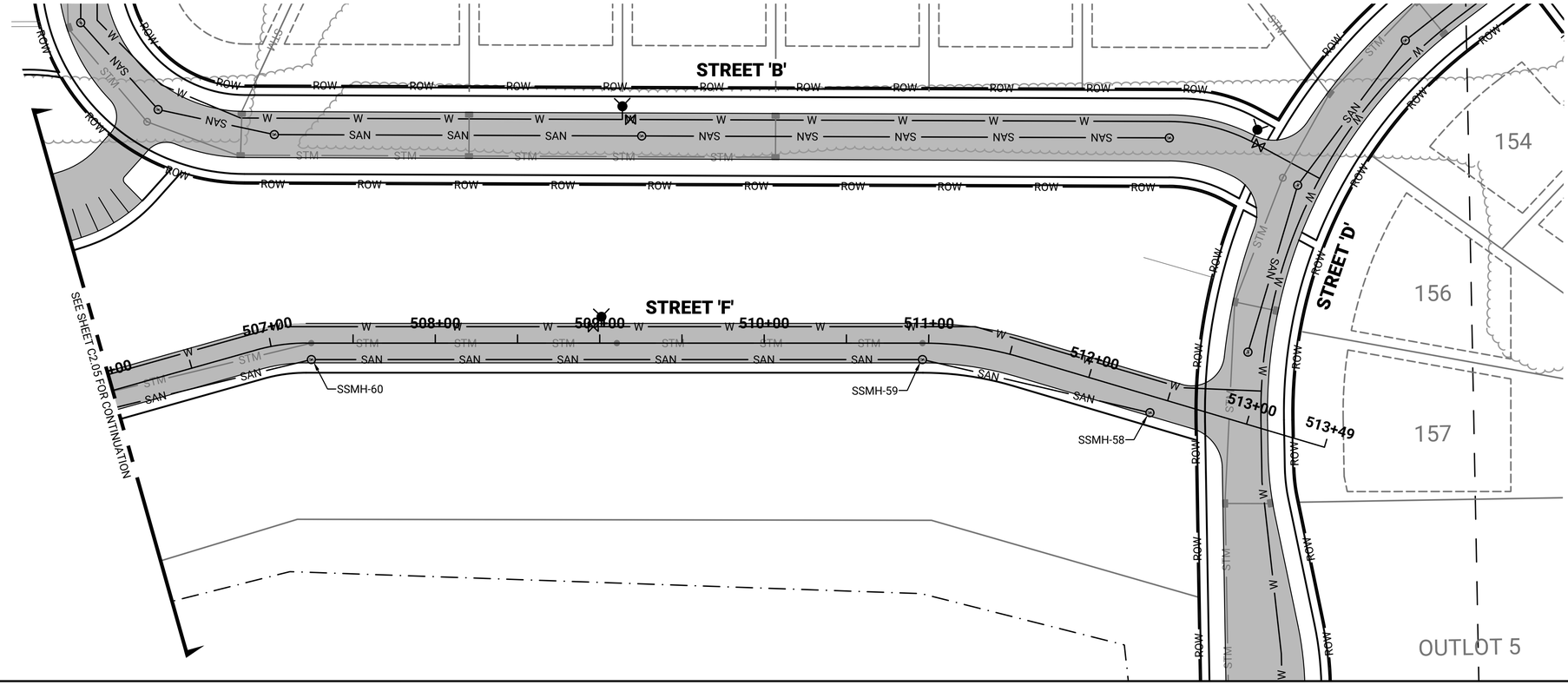
SANITARY SEWER PLAN AND PROFILE
STREET F

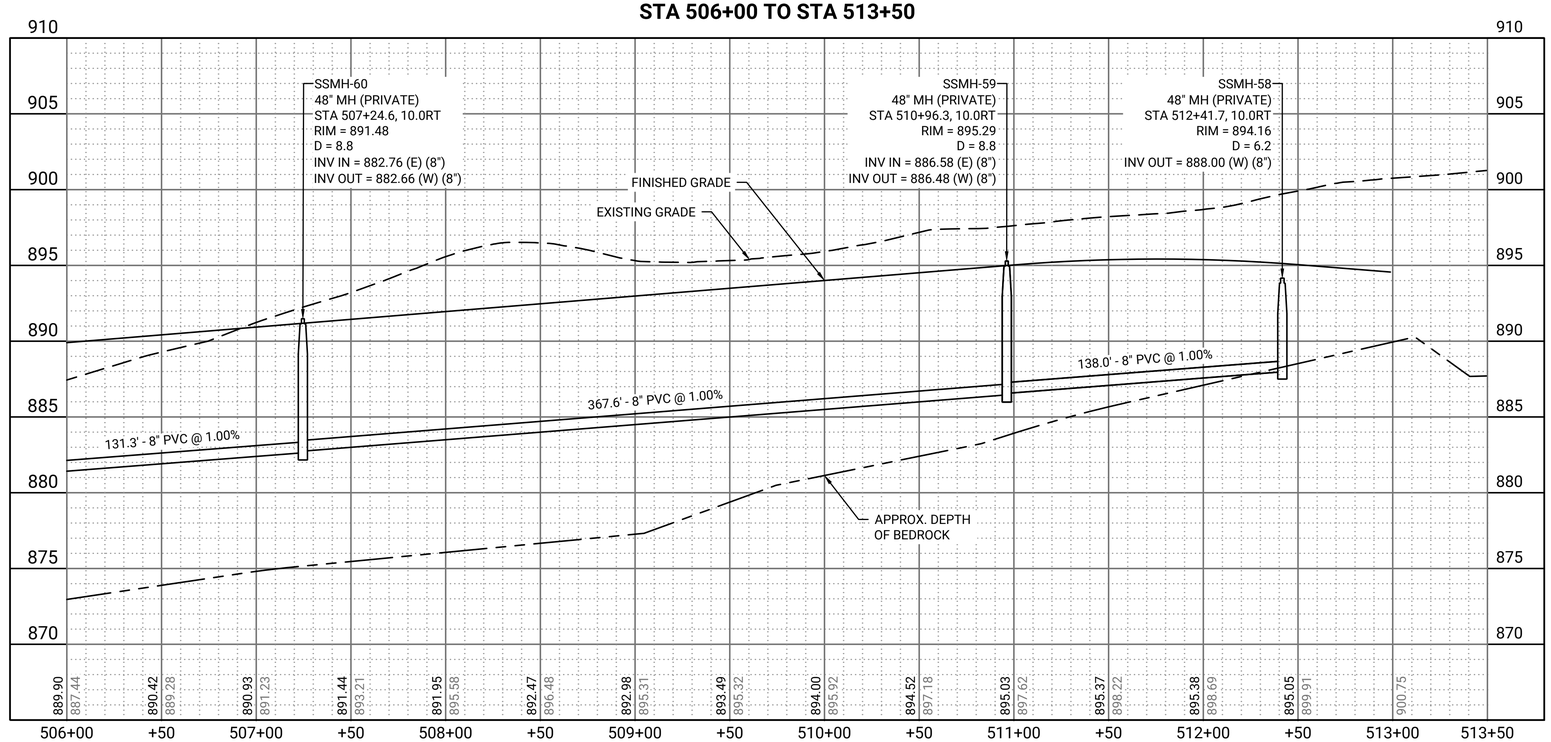
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.05

CAD FILE: C:\PW_WORKDIR\PW_JE\00867226\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.05 By: ZUBAK, CHRIS





0 40 80
scale feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

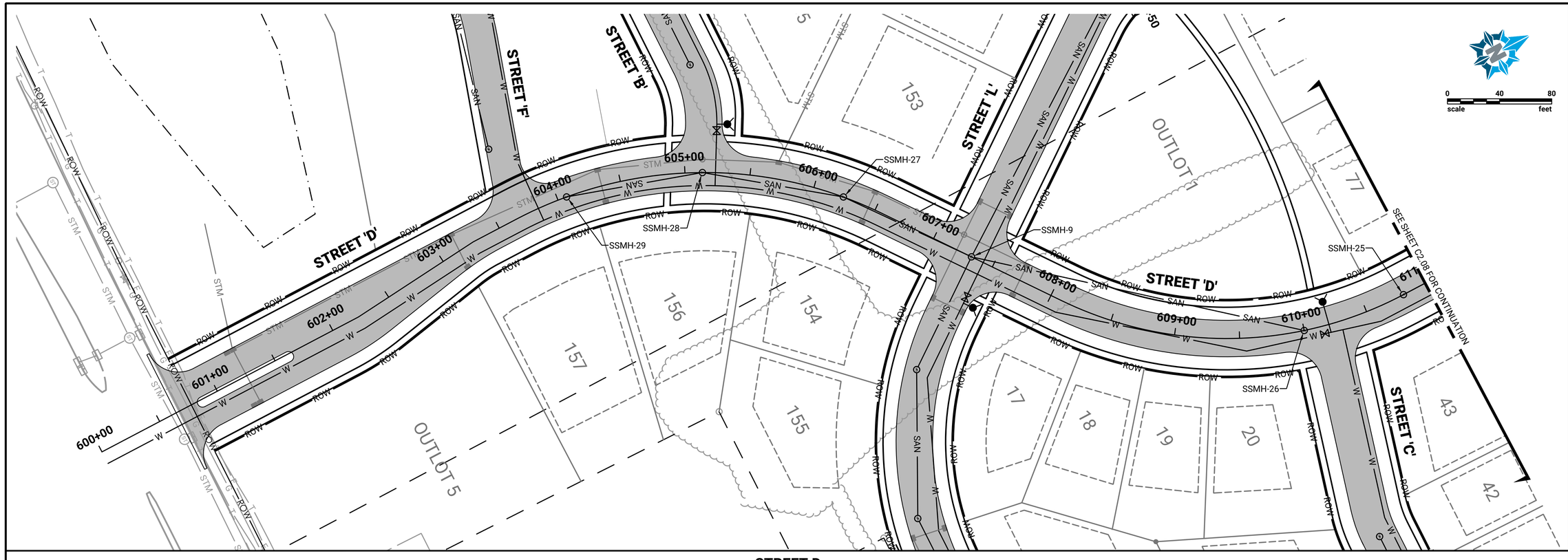
SANITARY SEWER PLAN AND PROFILE
STREET F

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

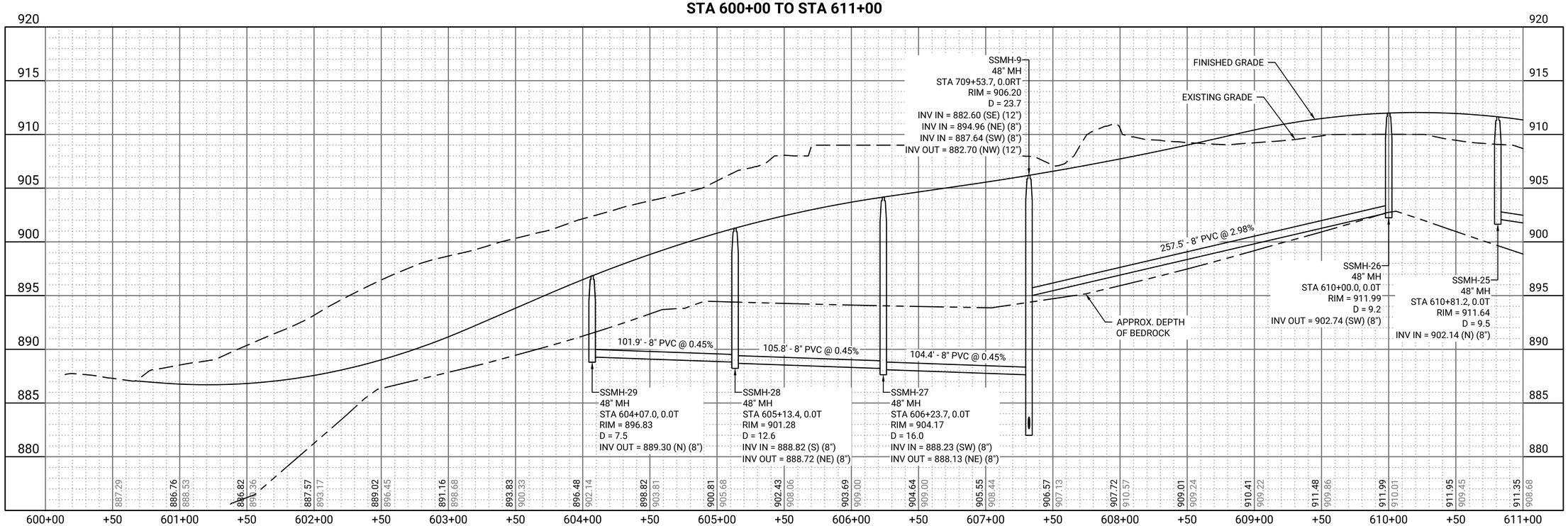
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.06

CAD FILE: C:\PW_WORKDIR\PW_JEID0867236\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.06 By: ZUBAK, CHRIS



STREET D
STA 600+00 TO STA 611+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

SANITARY SEWER PLAN AND PROFILE
STREET D

SUBJECT TO CHANGE
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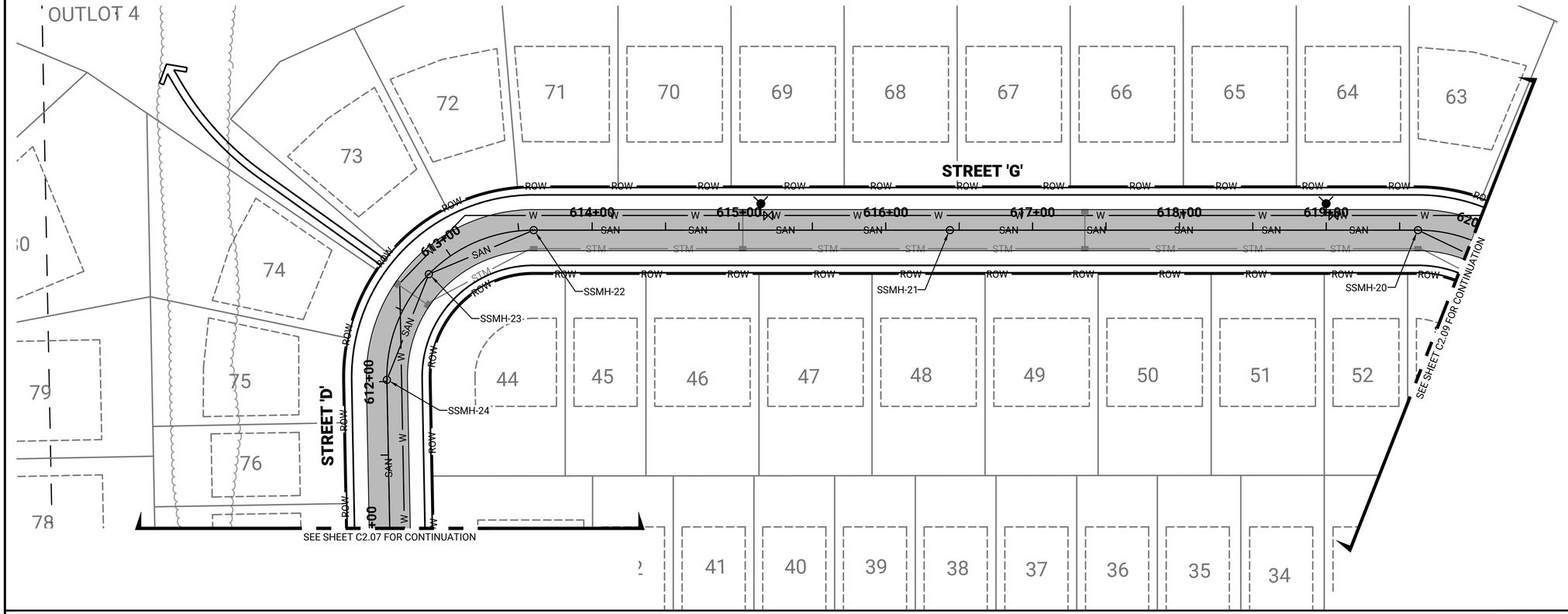
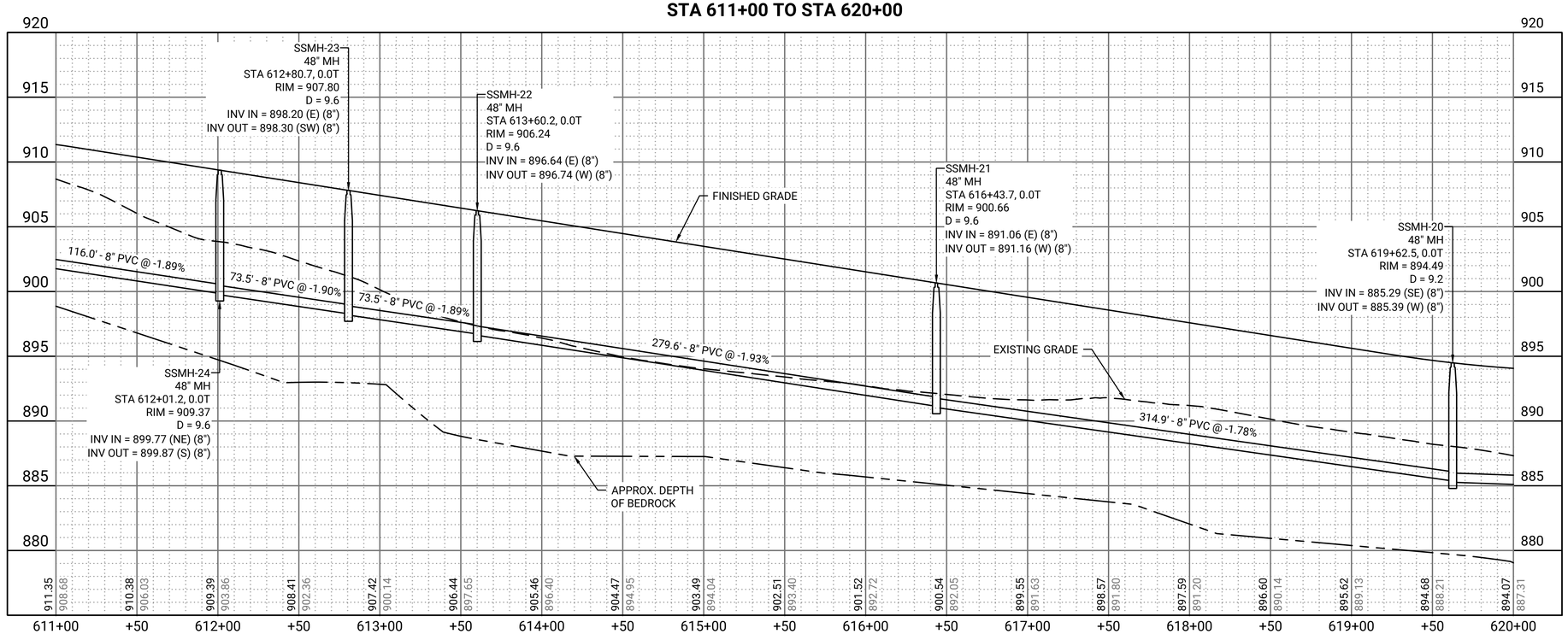
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.07

CAD FILE: C:\PW_WORKDIR\PW_JED\D0867236\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.07 By: ZUBAK, CHRIS



STREET D
STA 611+00 TO STA 620+00



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PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

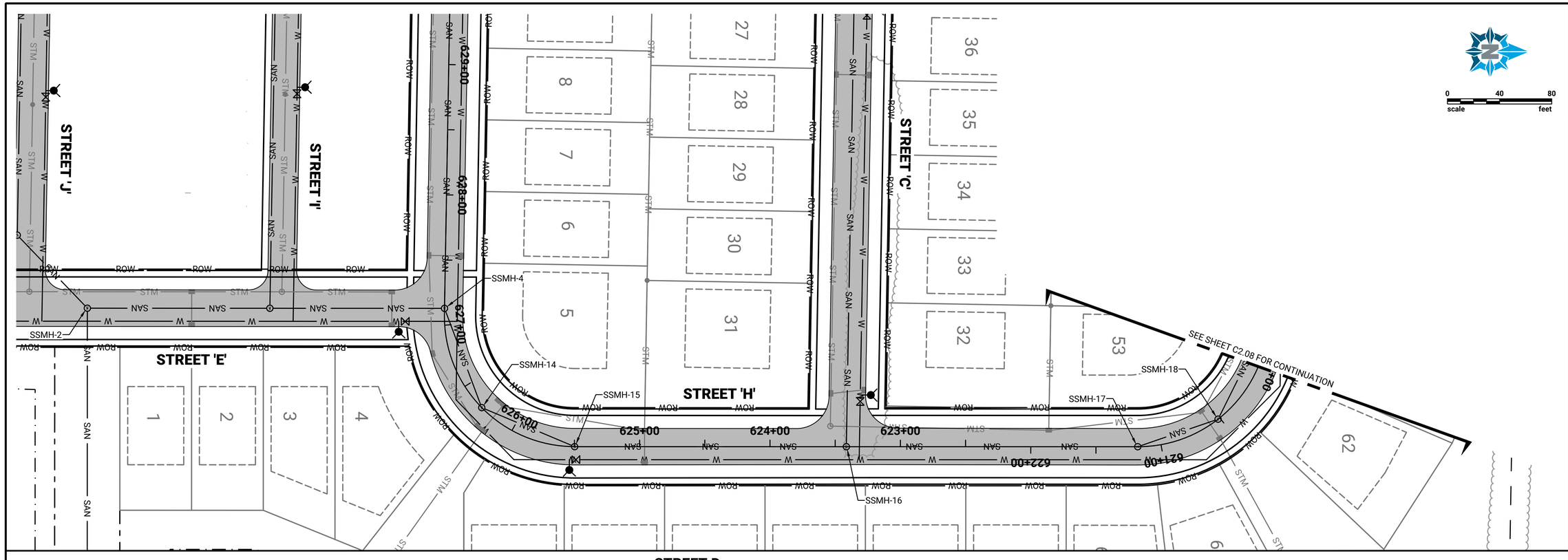
SANITARY SEWER PLAN AND PROFILE STREET G

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

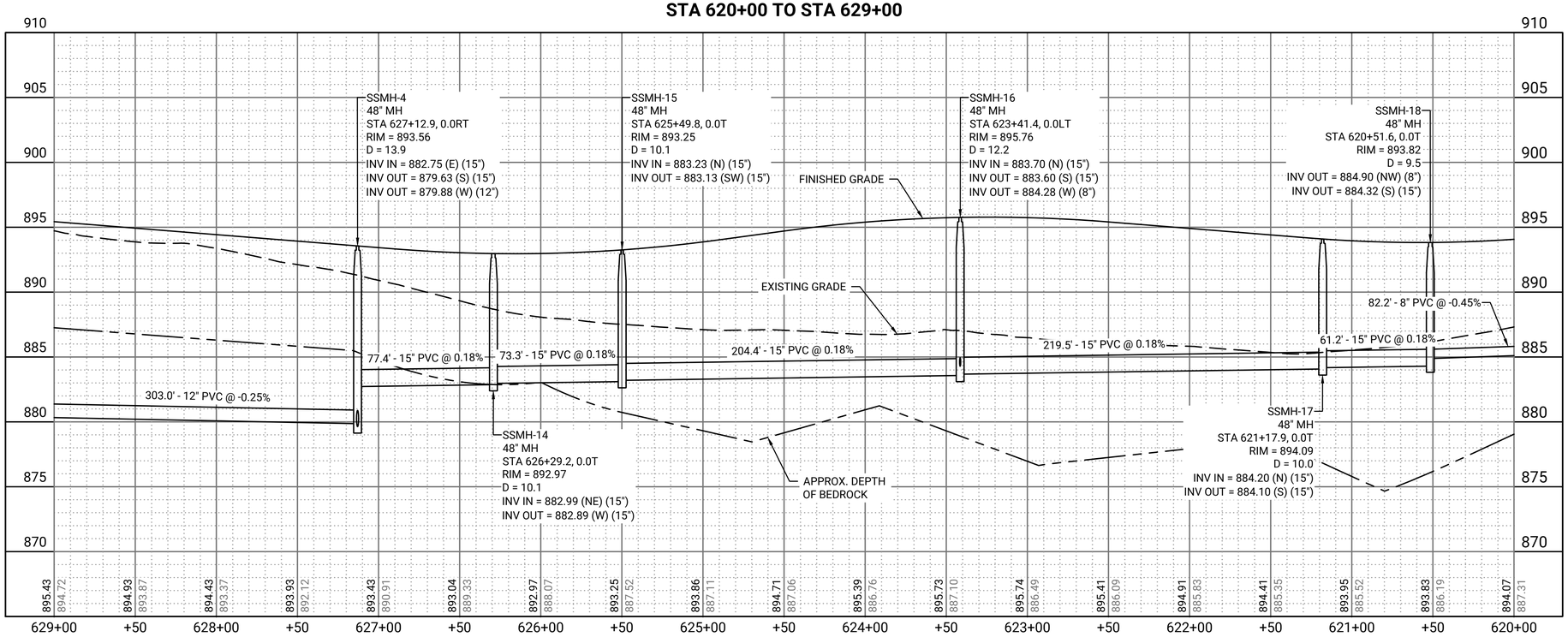
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.08

CAD FILE: C:\PW_WORKDIR\PW_JE\00867236\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.08 By: ZUBAK, CHRIS



STREET D
STA 620+00 TO STA 629+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

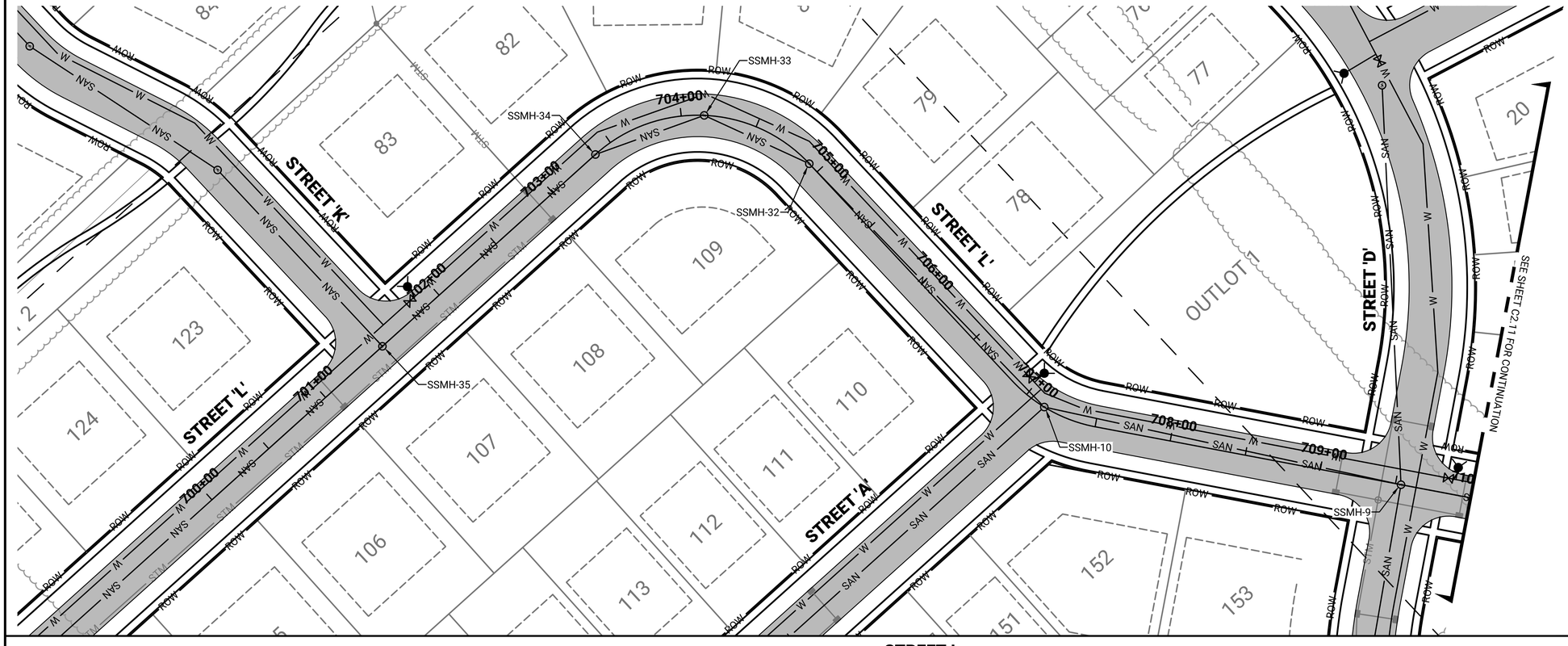
SANITARY SEWER PLAN AND PROFILE
STREET H

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

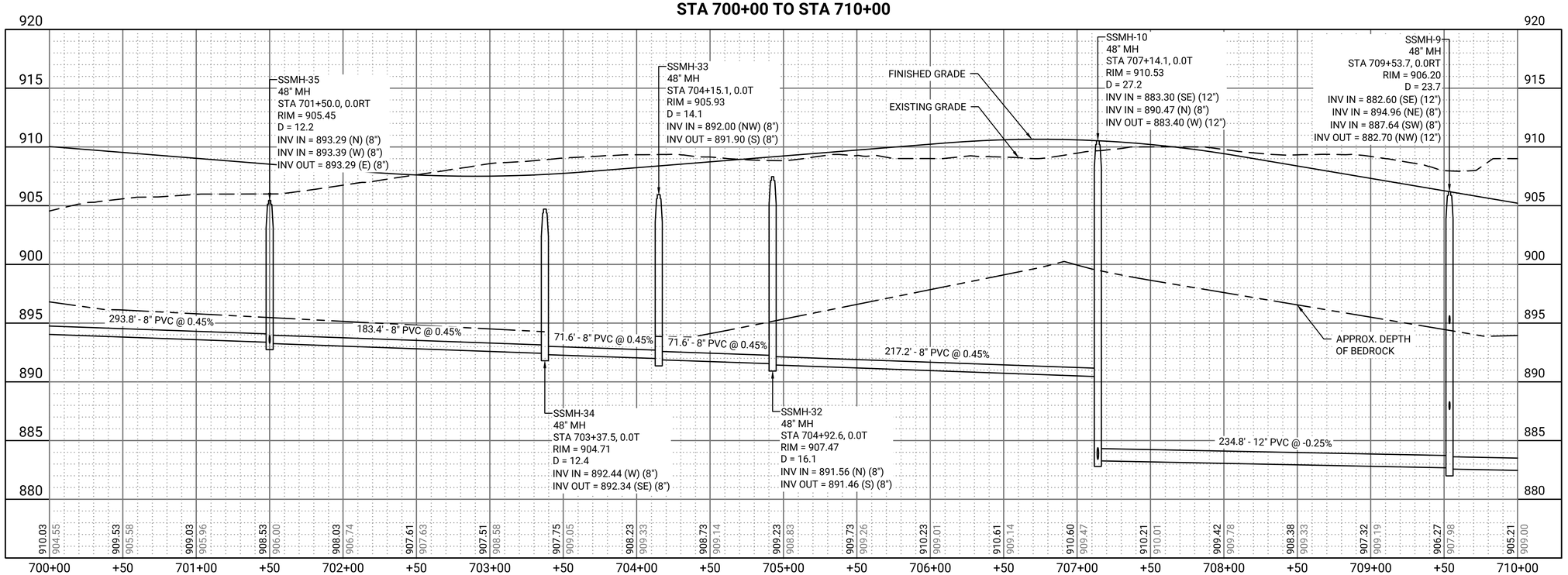
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.09

CAD FILE: C:\PW_WORKDIR\PW_JE\00867236\C2-XX-SAN & WAT PLAN AND PROFILE.DWG Layout: C2.09 By: ZUBAK, CHRIS



STREET L
STA 700+00 TO STA 710+00



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Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

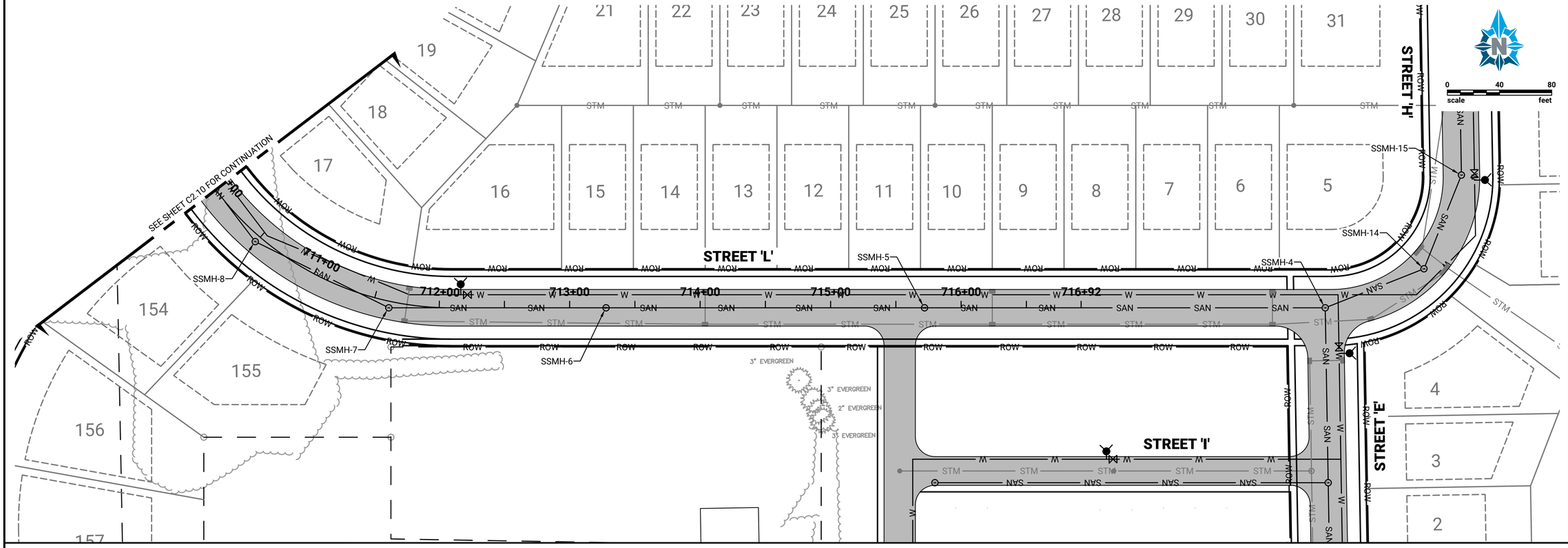
SANITARY SEWER PLAN AND PROFILE
STREET J

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

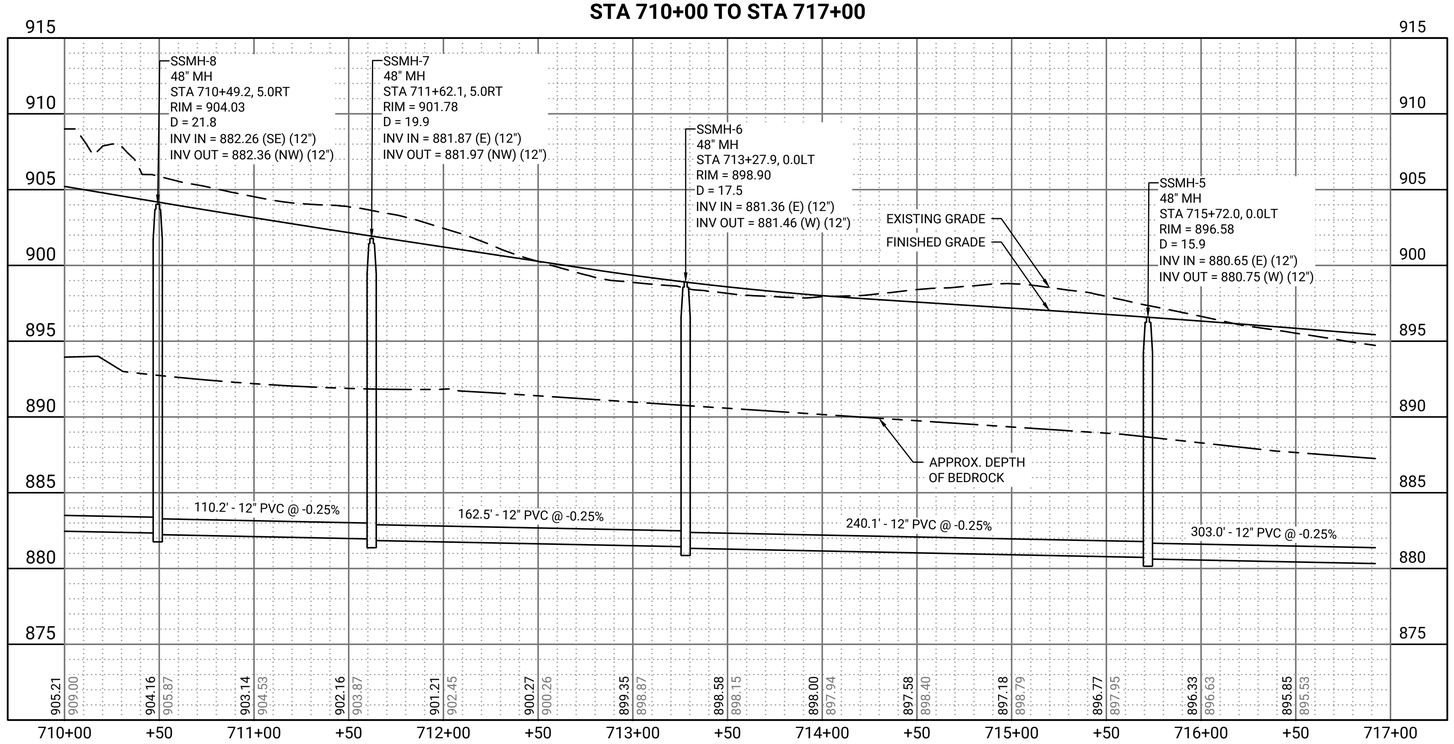
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.10

CAD FILE: C:\PW_WORKDIR\PW_JE\00867236\C2-XX-SAN & WAT PLAN AND PROFILE.DWG Layout: C2.10 By: ZUBAK, CHRIS



STREET L
STA 710+00 TO STA 717+00



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PREPARED BY:
Foth

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MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

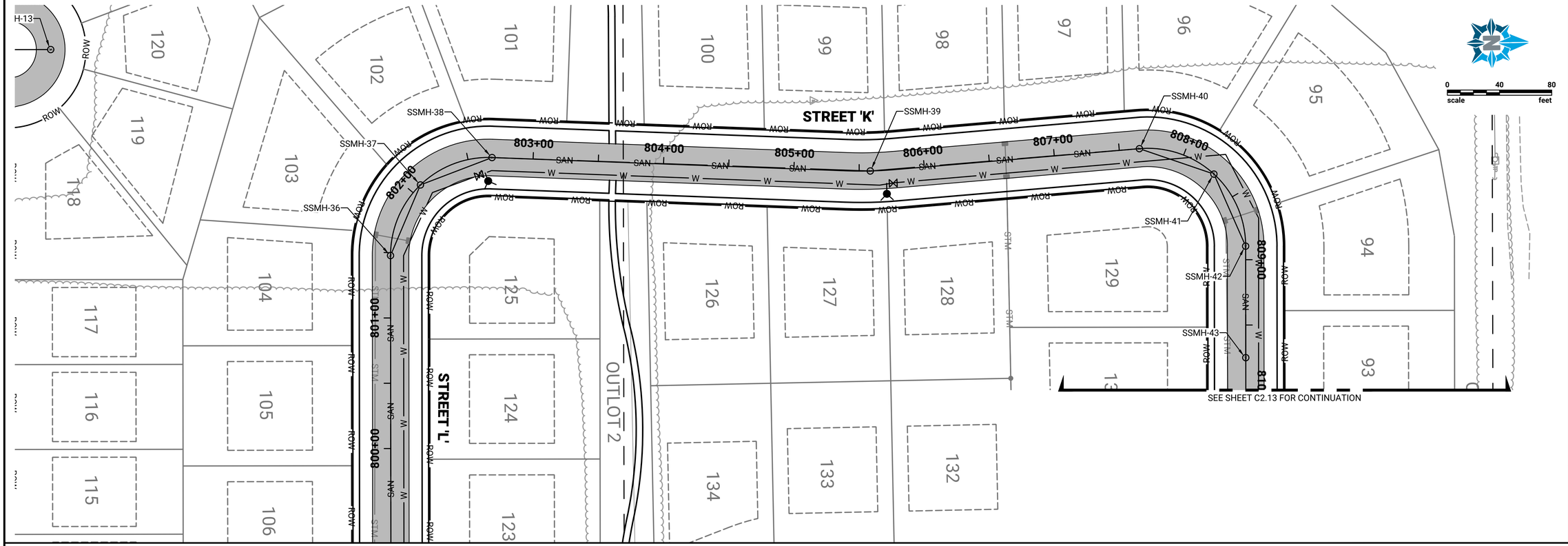
SANITARY SEWER PLAN AND PROFILE
STREET J

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

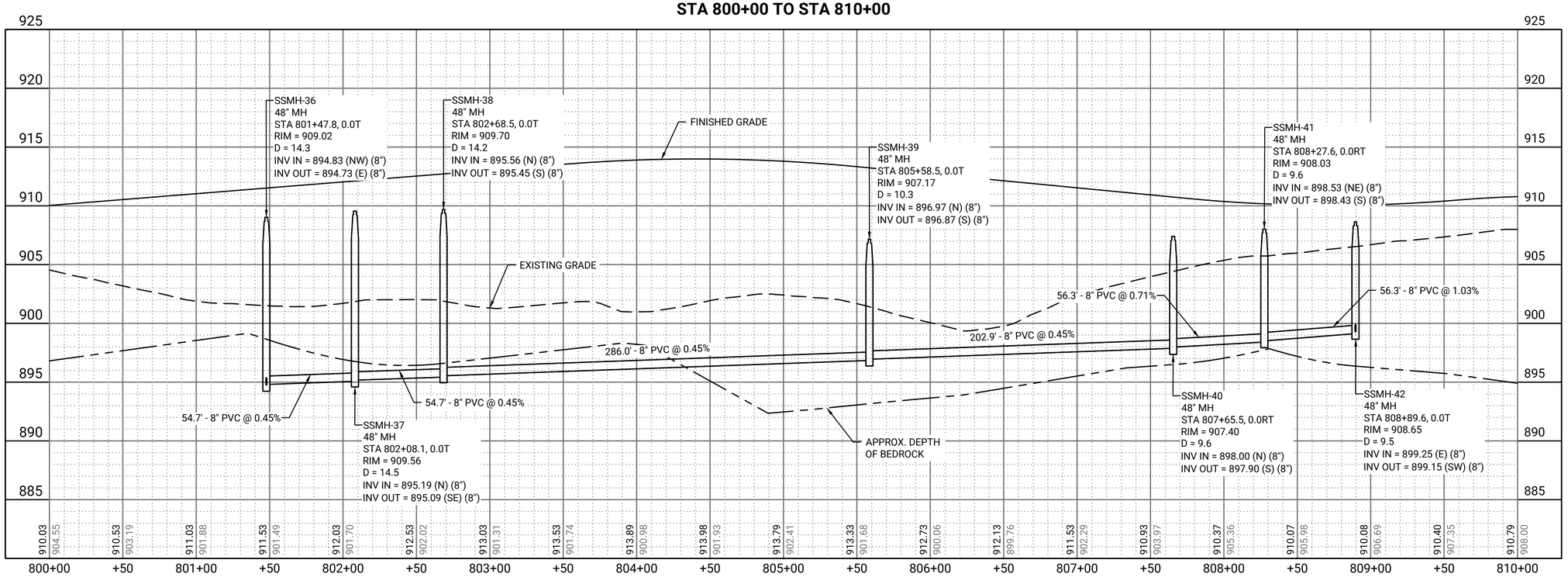
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.11

CAD FILE: C:\PW_WORKDIR\PW_JEID0867236\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.11 By: ZUBAK, CHRIS



STREET K
STA 800+00 TO STA 810+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

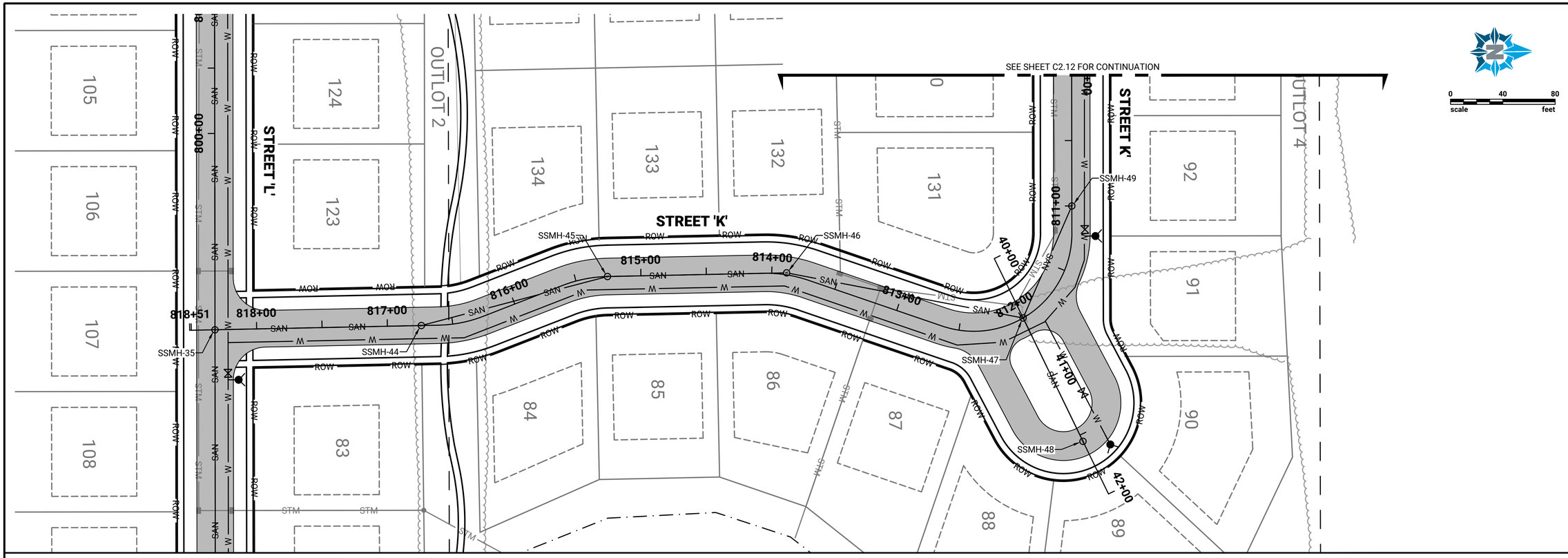
SANITARY SEWER PLAN AND PROFILE STREET K

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

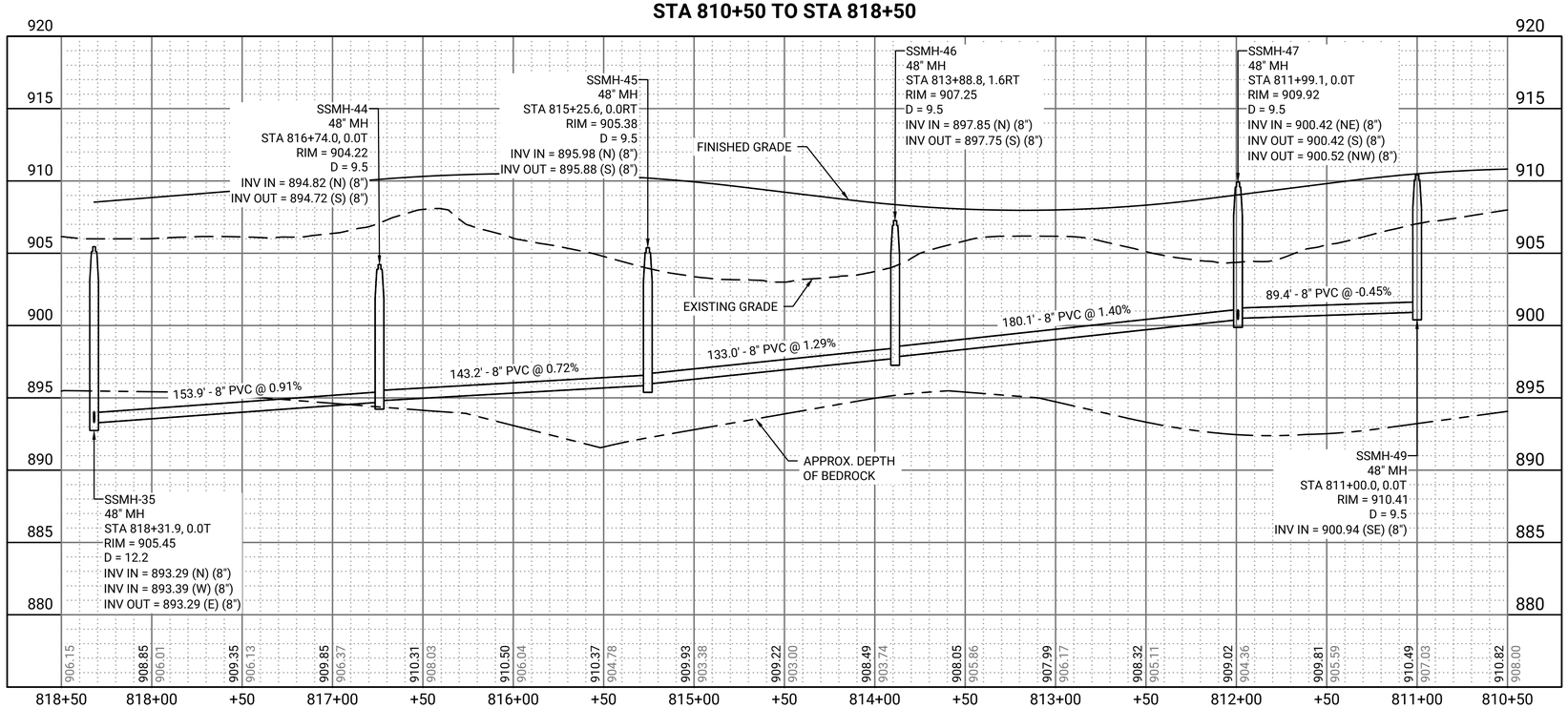
DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.12

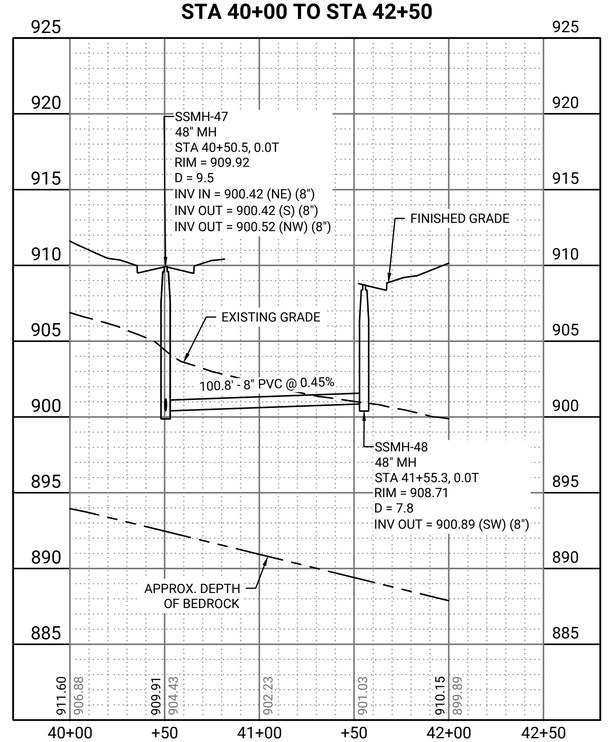
CAD FILE: C:\PW_WORKDIR\PW_JE\00867236\C2 XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.12 By: ZUBAK, CHRIS



STREET K
STA 810+50 TO STA 818+50



NORTH CUL-DU-SAC
STA 40+00 TO STA 42+50



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

SANITARY SEWER PLAN AND PROFILE
STREET K

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.13

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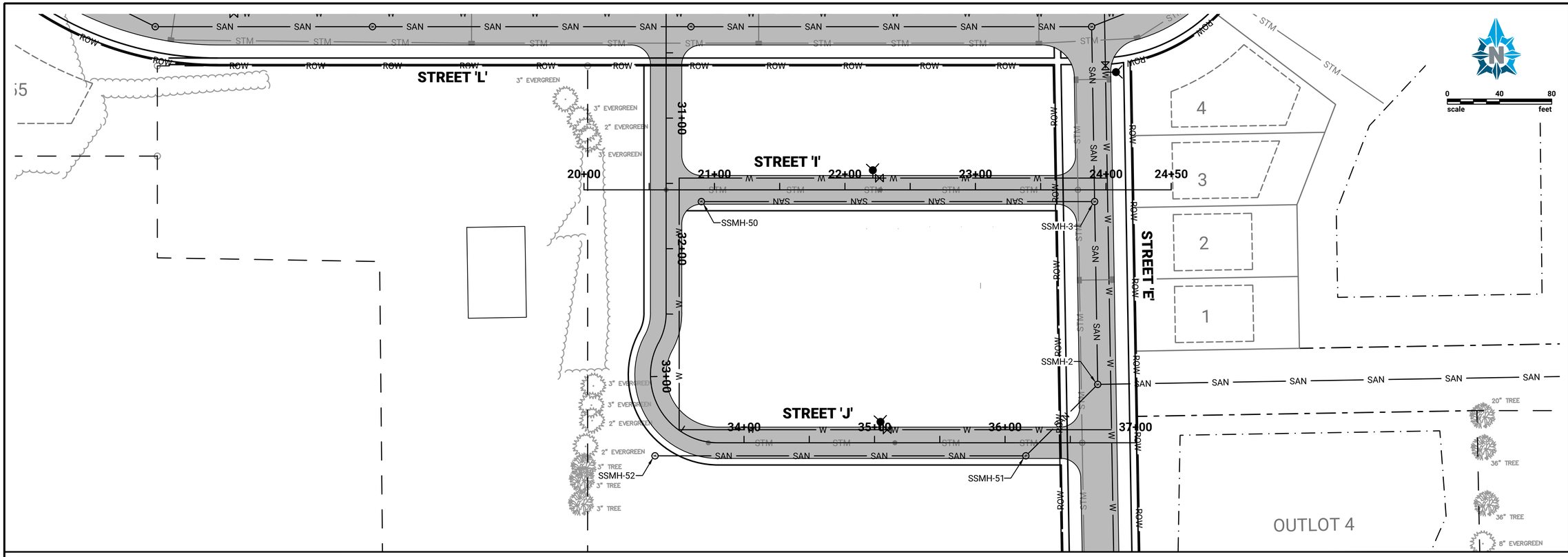
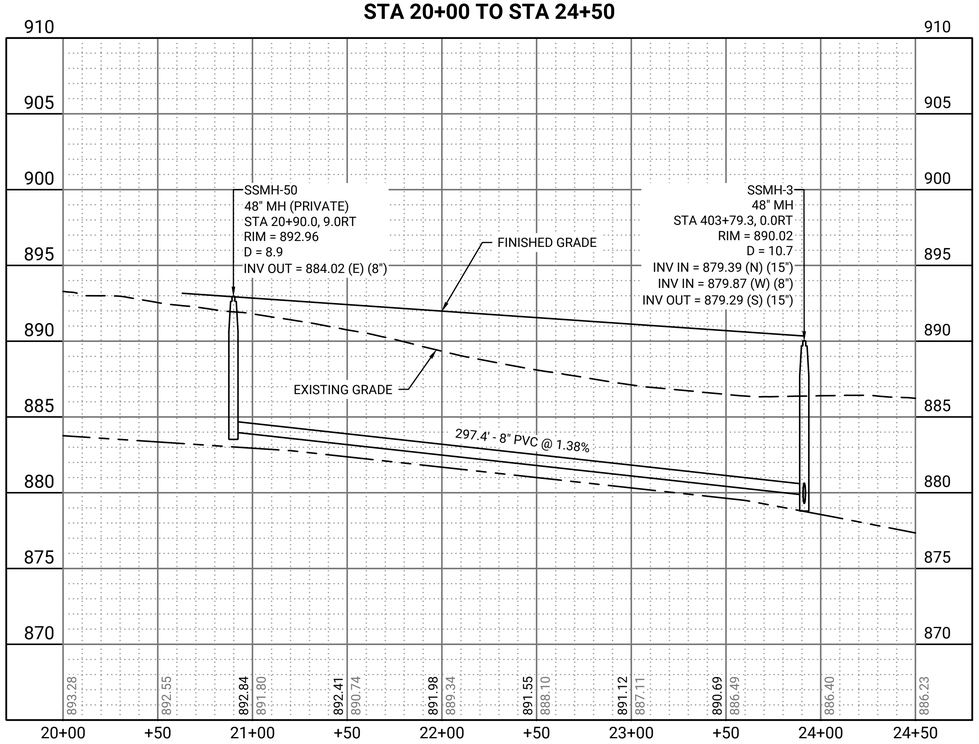
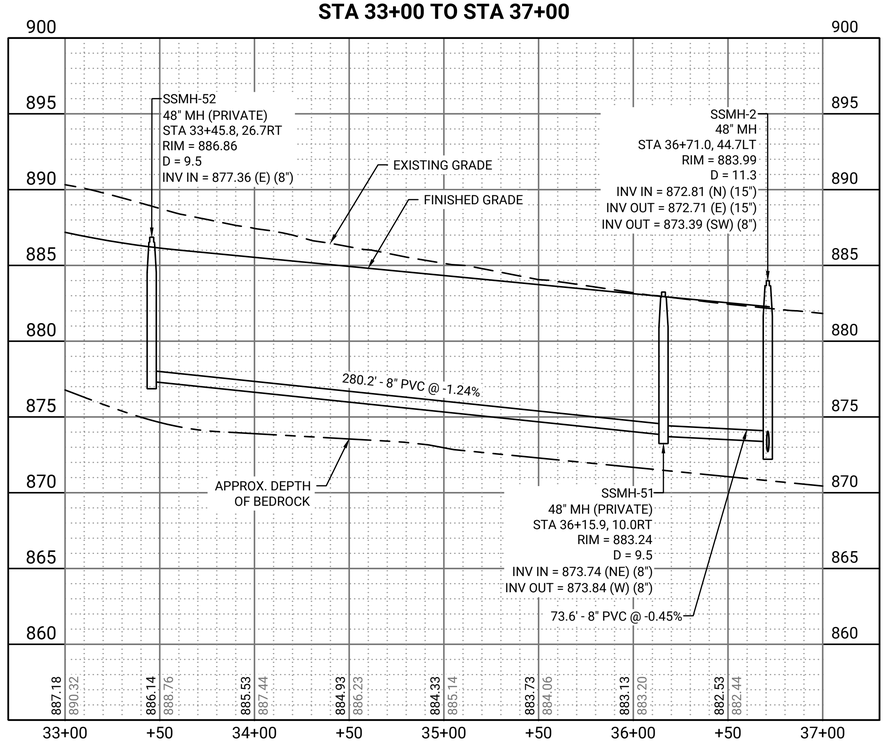


STREET I
STA 20+00 TO STA 24+50



STREET J
STA 33+00 TO STA 37+00



PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

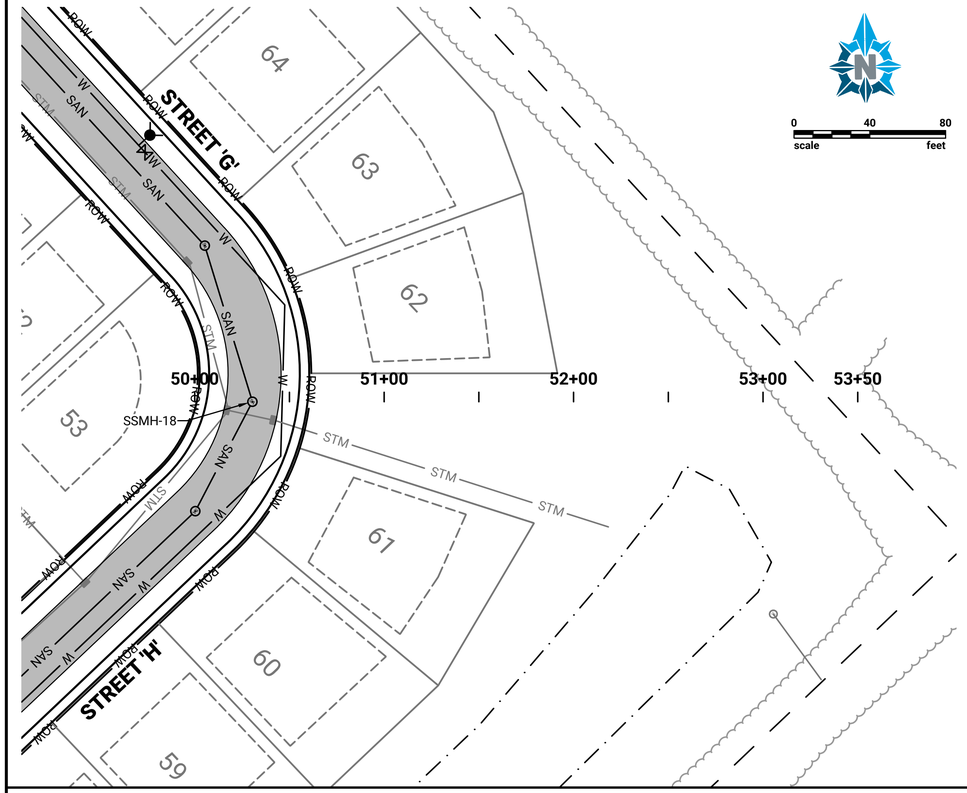
SANITARY SEWER PLAN AND PROFILE
STREET I AND J

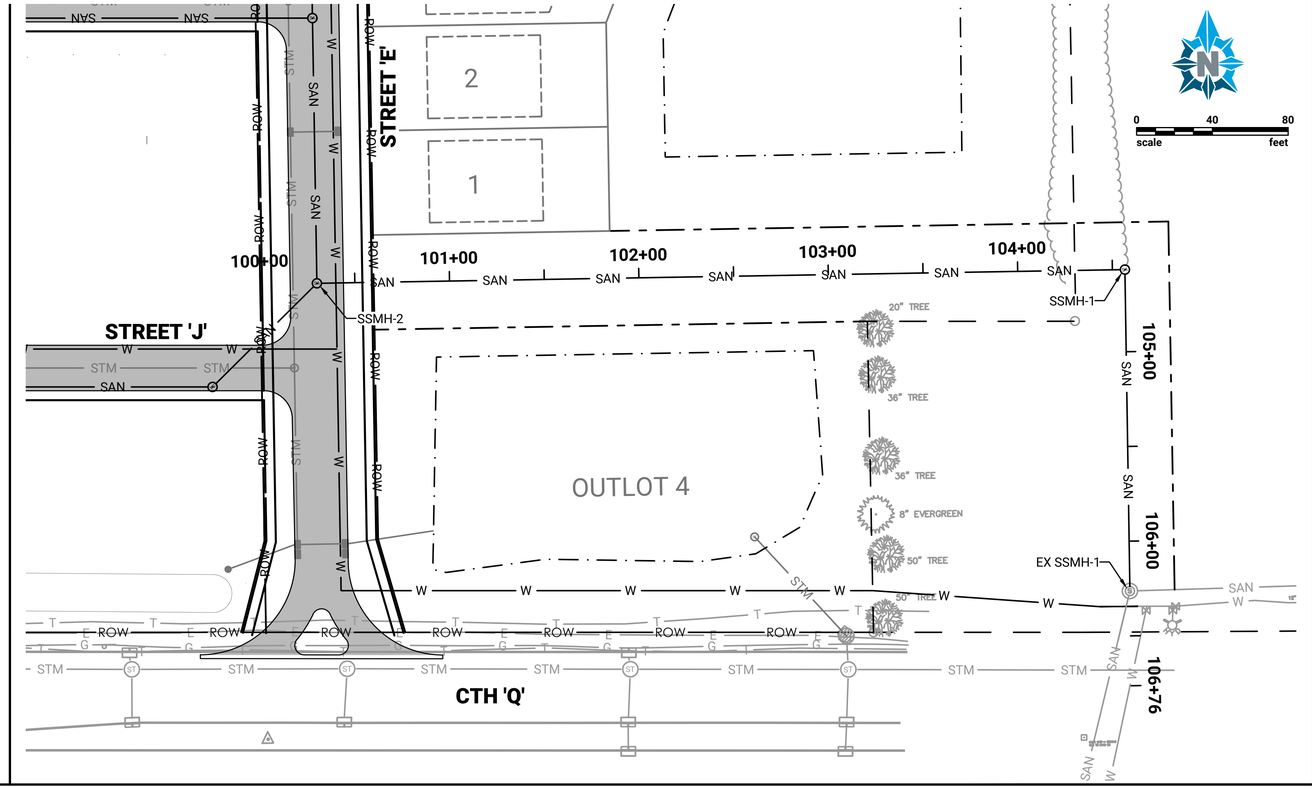
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

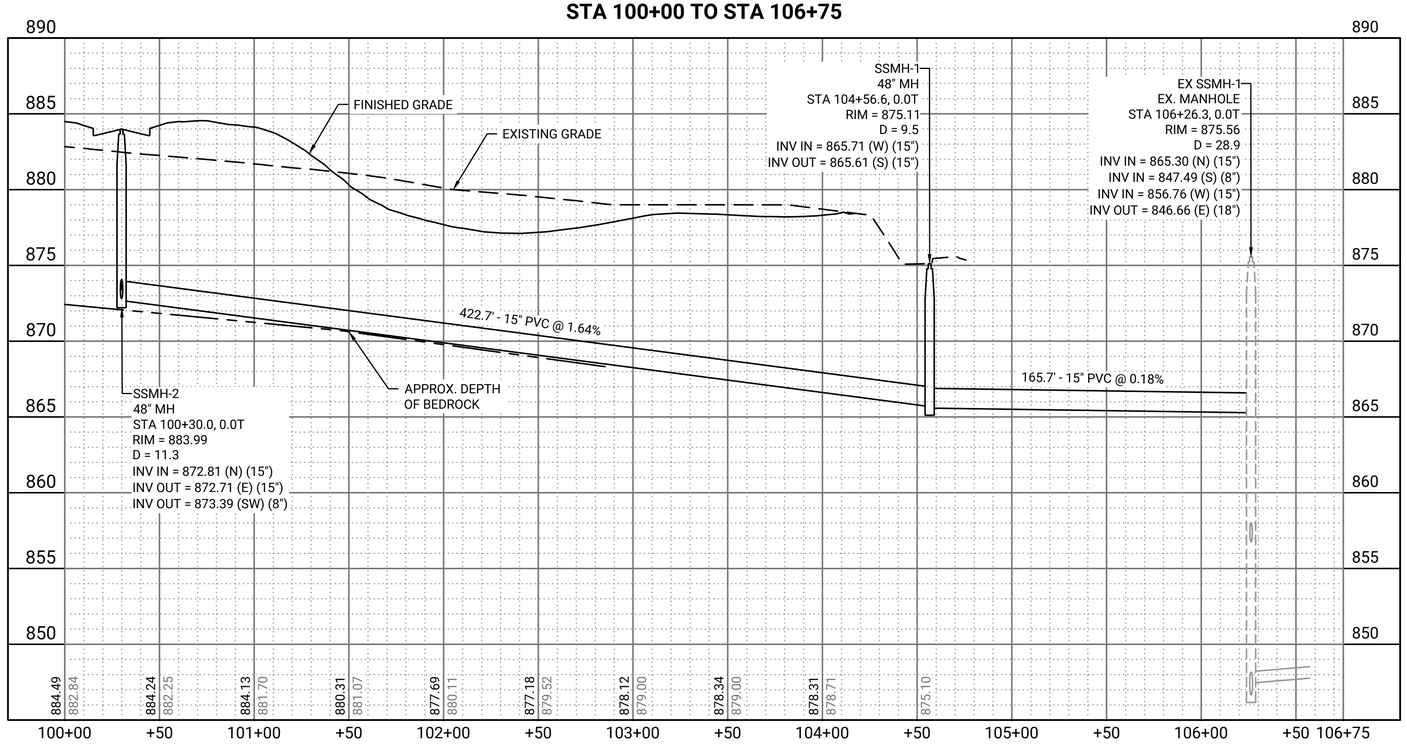
DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.14

CAD FILE: C:\PW_WORKDIR\PW_JEID\0867236\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.14 By: ZUBAK, CHRIS







PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

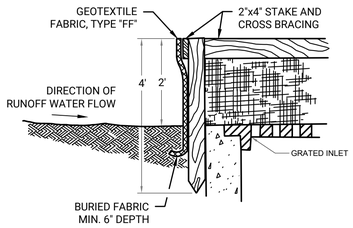
SANITARY SEWER PLAN AND PROFILE
SANITARY EXTENSIONS

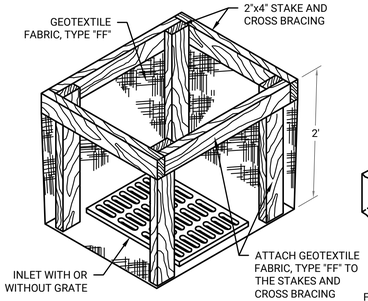
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED:	DRAWN:	CHECKED:
NCR	CJZ	CDH

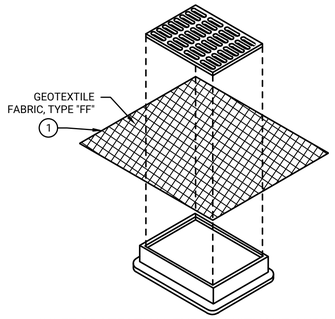
PROJECT NO: 0025H025.00
PRINT DATE: 3/25/2025
SHEET NO.
C2.15

CAD FILE: C:\PW_WORKDIR\PW_JEID0867226\C2.XX SAN & WAT PLAN AND PROFILE.DWG Layout: C2.15 by: ZUBAK, CHRIS

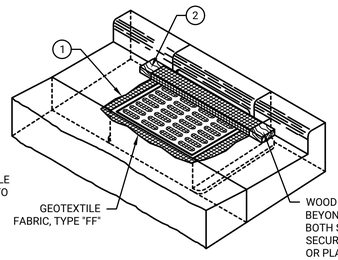




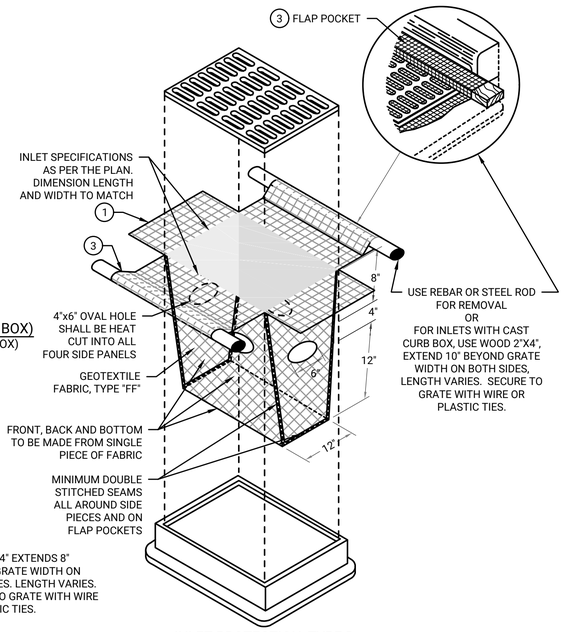
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B (WITHOUT CURB BOX)
(CAN BE INSTALLED ON ANY INLET WITHOUT CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D
(CAN BE INSTALLED ON ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

(2) FOR INLET PROTECTION TYPE C WITH CURB BOX, AN ADDITIONAL 18" FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

(3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPES A, B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

INLET PROTECTION
TYPE A, B, C, AND D

01 INLET PROTECTION DETAIL

SCALE: NONE

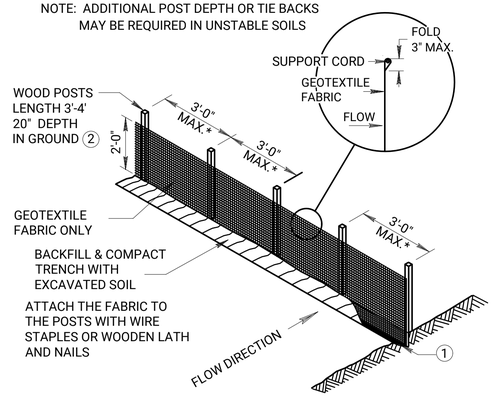
GENERAL NOTES

(1) TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL &
(2) COMPACT TRENCH WITH EXCAVATED SOIL.

(3) WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 ⅛ " X 1 ⅛" OF OAK OR HICKORY.

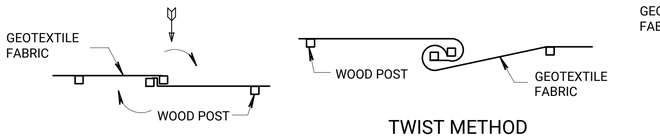
(4) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS



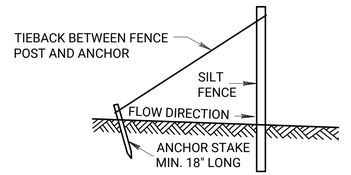
SILT FENCE

* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



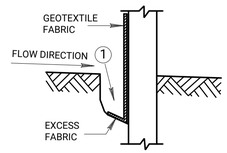
02 SILT FENCE DETAIL

SCALE: NONE

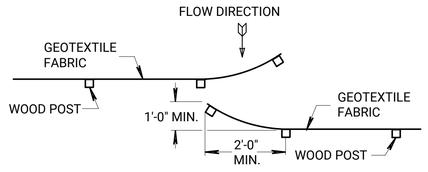


SILT FENCE TIE BACK

(WHEN ADDITIONAL SUPPORT REQUIRED)



TRENCH DETAIL



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

PREPARED FOR:

HOME PATH FINANCIAL

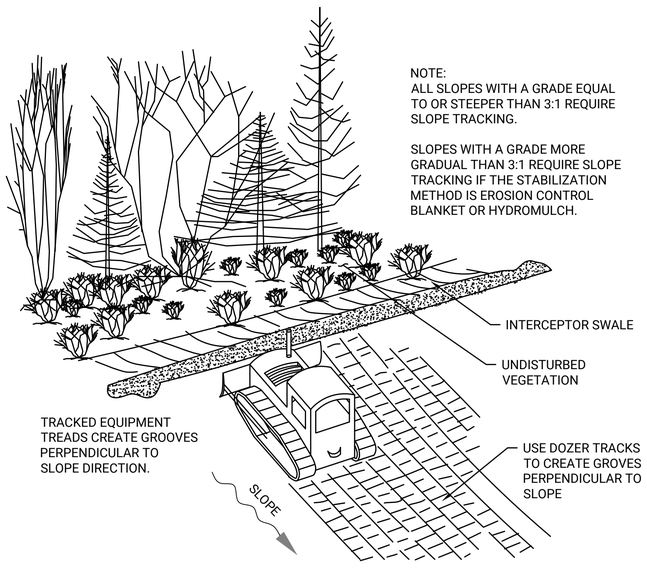
PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

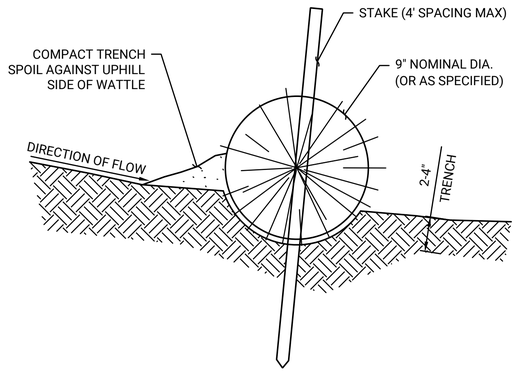
MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

EROSION CONTROL DETAILS



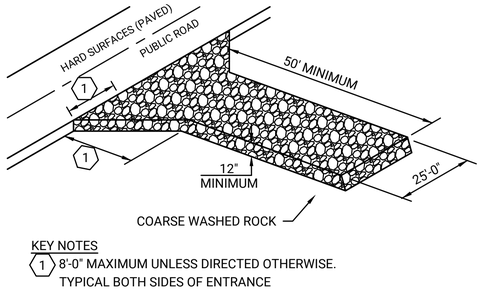
03 SLOPE STABILIZATION DETAIL

SCALE: NONE



04 WATTLE DETAIL

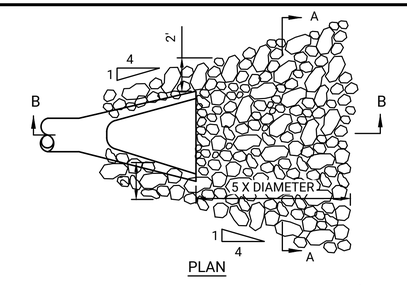
SCALE: NONE

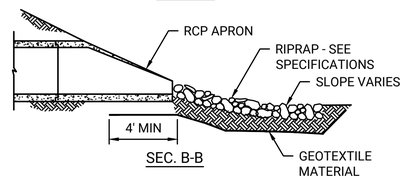


KEY NOTES
(1) 8'-0" MAXIMUM UNLESS DIRECTED OTHERWISE. TYPICAL BOTH SIDES OF ENTRANCE

05 TRACKOUT CONTROL PAD

SCALE: NONE





06 RIPRAP AT RCP APRON DETAIL

SCALE: NONE

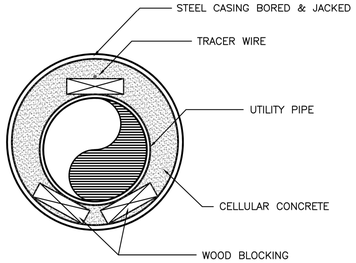
SUBJECT TO CHANGE NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH
PROJECT NO: 0025H025.00		
PRINT DATE: 3/25/2025		

SHEET NO.

C5.01

CAD FILE: C:\PW_WORKDIR\PW_IE\D0867226\C5.XX STANDARD DETAILS.DWG Layout: C5.01 By: ZUBAK, CHRIS



STEEL CASING PIPE SHALL MEET THE REQUIREMENTS AS DESCRIBED IN THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN SECTION 6.2.3 AND DRAWING FILE NO. 49.

THE PIPE SHALL BE SUPPORTED AND BRACED WITH 2" x 6" x 12" GREEN WOOD BLOCKING AND STRAPPED WITH STAINLESS STEEL BANDS AT 5' INTERVALS.

A TRACER WIRE SHALL BE INSTALLED AS PER THE CONTRACT SPECIFICATIONS.

PRIOR TO FILLING THE CASING VOID, EACH END OF THE CASING SHALL RECEIVE A 12" CONCRETE OR BRICK MORTARED BULKHEAD. FILLING TUBES OR VENTS CAN BE INSTALLED INTO THIS BULKHEAD.

THE ANNULAR SPACE BETWEEN THE UTILITY PIPE AND THE CASING PIPE SHALL BE FILLED WITH A CELLULAR CONCRETE OR OTHER FLOWABLE FILL CONFORMING TO THE REQUIREMENTS OF SECTIONS 8.35.4 AND 8.35.5. AFTER FILLING, VENT PIPES SHALL BE CUT, AT THE CASING, AND PERMENTLY CAPPED WITH A CONCRETE PLUG.

WHEN CASING PIPE IS USED FOR SANITARY OR STORM SEWER PIPE, THE CASING SHALL BE FILLED AND ANY REMAINING TRENCHES BACKFILLED, PRIOR TO TESTING THE SEWER PIPE FOR PRESSURE, LINE AND GRADE BY TELEVISING.

REV. 10/10/2018 RCB

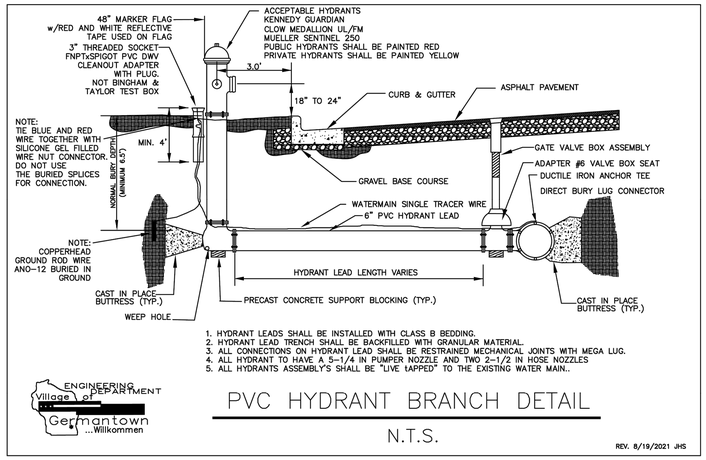
ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

BORING OR JACKING CASING PIPE WITH FLOWABLE FILL

NOT TO SCALE

01 BORING OR JACKING CASING PIPE WITH FLOWABLE FILL

SCALE: NONE



1. HYDRANT LEADS SHALL BE INSTALLED WITH CLASS B BEDDING.
2. HYDRANT LEAD TRENCH SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
3. ALL CONNECTIONS ON HYDRANT LEAD SHALL BE RESTRAINED MECHANICAL JOINTS WITH MEGA LUG.
4. ALL HYDRANT TO HAVE A 5-1/4 IN PUMPER NOZZLE AND TWO 2-1/2 IN HOSE NOZZLES
5. ALL HYDRANTS ASSEMBLY'S SHALL BE "LIVE TAPPED" TO THE EXISTING WATER MAIN..

ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

PVC HYDRANT BRANCH DETAIL

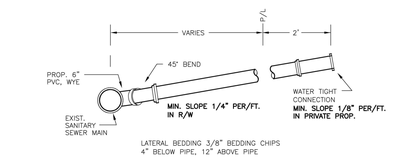
N.T.S.

REV. 8/19/2021 JHS

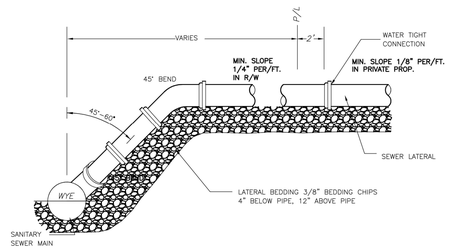
02 PVC HYDRANT BRANCH DETAIL

SCALE: NONE

Village of Germantown Standard Details 40



SANITARY SEWER LATERAL



SANITARY SEWER "RISER" LATERAL

NOT TO SCALE

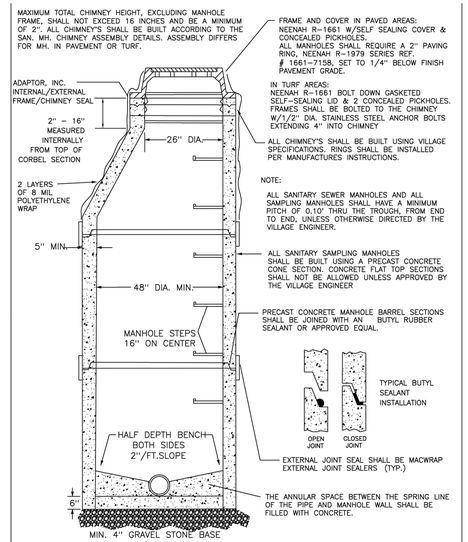
ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

STANDARD DETAIL
SANITARY SEWER LATERAL

REVISED SEPTEMBER 3, 2019 RCB

03 STANDARD SANITARY SEWER LATERAL

SCALE: NONE



SPRAY EPOXY COATINGS — MH EXTERIOR: 2 COATS (BLACK) OF AMERON INTERNATIONAL, AMERCOAT 78 HB AT 8-10 MILS EA. MH INTERIOR: 2 COATS (WHITE) OF PERMITE PCS-9043 TYPE II PERMOX PIPE GLAZE AT 20 MILS EA. COATINGS SHALL BE APPLIED BY SUPPLIERS AT THE PLANT.

REVISED DATE: 10/11/2019 FJR

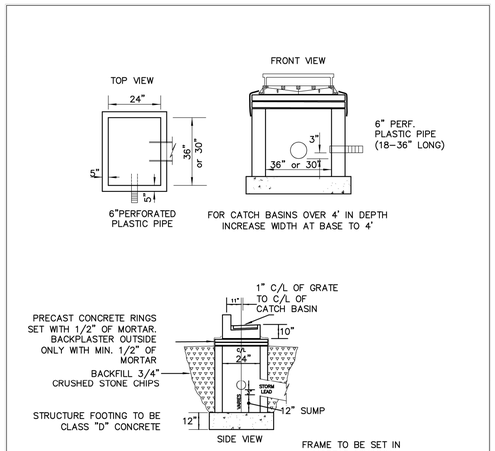
ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

STANDARD SANITARY MANHOLE & SAMPLING MANHOLE DETAIL

NOT TO SCALE

04 STANDARD SANITARY MANHOLE & SAMPLING MANHOLE DETAIL

SCALE: NONE



FRAME TO BE SET IN ½"MORTAR MINIMUM.

FRAMES SHALL NOT BE SET WITH THE USE OF WOOD SHIMS AND TUCK POINTING.

CURB CATCH BASIN FRAME & GRATE – NEENAH NO: VERTICAL FACE–3067 OR 3067L MOUNTABLE–3501R MOUNTABLE REQUIRES 24"X30" BOX VERTICAL REQUIRES 24"X36" BOX

IN DRIVEWAYS – R–3290A

ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

STANDARD DETAIL

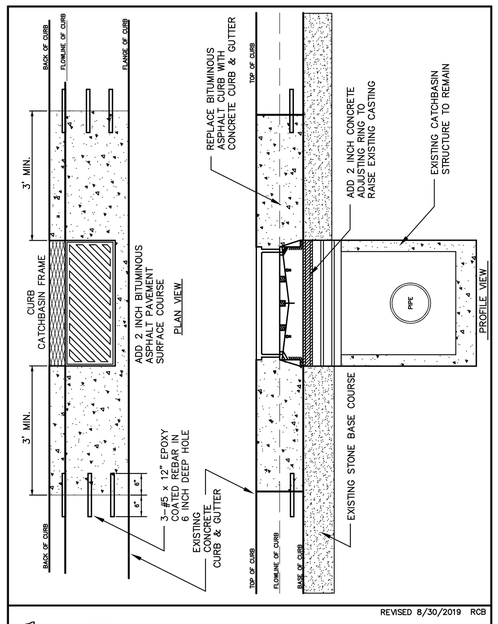
2 / 2.1 STANDARD CATCH BASIN DETAIL

REVISED 2/3/2020

NOT TO SCALE

05 STANDARD CATCH BASIN DETAIL

SCALE: NONE



REVISED 8/30/2019 RCB

ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

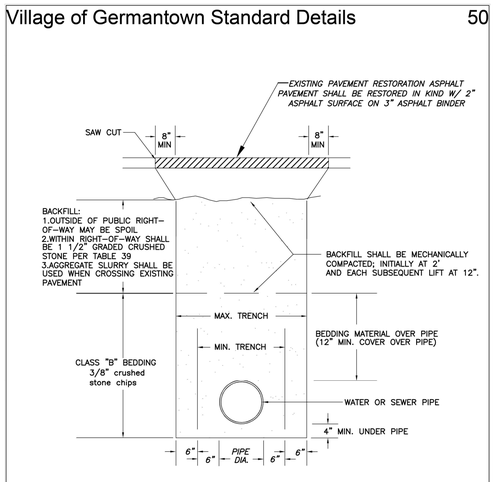
INTERIM PAVEMENT INLET TO FINAL RIM GRADE CONVERSION

NOT TO SCALE

06 INTERIM PAVEMENT INLET TO FINAL RIM GRADE CONVERSION

SCALE: NONE

Village of Germantown Standard Details 50



DATE: 8/30/2019 RCB

ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

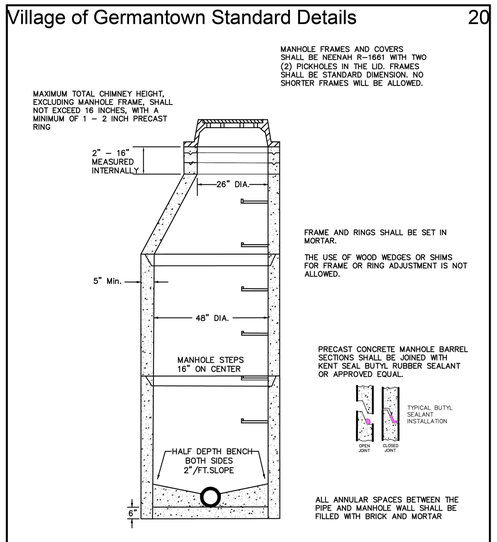
STANDARD WATER MAIN AND SANITARY SEWER TRENCH DETAIL

NOT TO SCALE

07 STANDARD WATER MAIN AND SANITARY SEWER TRENCH DETAIL

SCALE: NONE

Village of Germantown Standard Details 20



NOT TO SCALE

ENGINEERING DEPARTMENT Village of Germantown ...Willkommen

STANDARD DETAIL

4 / 2.1 STANDARD STORM MANHOLE DETAIL

REVISED 9/3/2019

REVISED SEPTEMBER 3, 2019 RCB

07 STANDARD STORM MANHOLE DETAIL

SCALE: NONE

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM SUBDIVISION
HOME PATH FINANCIAL
VILLAGE OF GERMANTOWN, WI

UTILITY DETAILS

SUBJECT TO CHANGE NOT FOR CONSTRUCTION

DESIGNED: NCR	DRAWN: CJZ	CHECKED: CDH

PROJECT NO: 0025H025.00

PRINT DATE: 3/25/2025

SHEET NO.

C5.02

CAD FILE: C:\PW_WORKDIR\PW_IE\D0867226\CS XX STANDARD DETAILS.DWG Layout: C5.02 By: ZUBAK, CHRIS

Storm Water Management Plan

MOHRHUSEN FARM

Germantown, Wisconsin

March 2025

Project ID: 25H025.00

Solving our clients' toughest science and engineering challenges.

Storm Water Management Plan

Project ID: 25H025.00

Prepared for

Home Path Financial

Butler, WI 53007

Prepared by

Foth Infrastructure & Environment, LLC

March 2025

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(414) 336-7900
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Storm Water Management Plan

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Water Quantity Design 1

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Appendix B	Preliminary Geotechnical Report
Appendix C	NRCS Soil Report
Appendix D	HydroCAD Report

Purpose

Storm water management for this development is regulated by the Milwaukee Metropolitan Sewerage District (MMSD) and the Wisconsin Department of Natural Resources (DNR). The analysis presented in this report addresses post-construction water quantity, water quality, and construction site sedimentation control.

Methods of Analysis

The hydrologic analysis included in this report was performed using the HydroCAD hydrologic simulation computer model, version 10.20-5c by HydroCAD Software Solutions LLC. The discharges were generated using the SCS Dimensionless Unit Hydrograph Method for a 24-hour duration storm. Model parameters include drainage area, SCS runoff curve number, time of concentration, and 24-hour precipitation events populated from the National Oceanic and Atmospheric Administration (NOAA) Precipitation Frequency Data Server. Rainfall events required to be modeled are the 2-year and 100-year event.

Table 1: Design Storm Events – City of Germantown

Frequency (years)	Duration (hours)	Depth (in)
2	24	2.68
10	24	3.83
100	24	6.34

Site Characteristics

The site is located in the northeast quadrant of the intersection of County Line Road and Lannon Road in the Village of Germantown.

The proposed development includes a variety of single family and ROW homes to be constructed in multiple phases.

The site is approximately 88 acres, with approximately 7 acres of wooded area to remain untouched, 10 acres of wooded area to be disturbed, and the remaining covered by cropland. The site has significant slope change generally from the middle of the site out to the boundary.

Existing site runoff flows offsite either to lower ground to the north or east, or to existing storm sewer systems within County Line Road and Lannon Road to the south and west respectively.

There is bedrock within the site ranging in depth across the site, but generally 8 feet or more below existing ground.

Existing soils are categorized by the USDA NRCS as 0-3 percent slopes: Radford silt loam; 1-3 percent slopes: Kendall silt loam; 2-6 percent slopes: Knowles silt loam, Mayville silt loam, Ozaukee silt loam, Theresa silt loam; 6-12 percent slopes: Knowles silt loam, Ozaukee silt loam, Ritchey silt loam. Most soils are Hydrologic Soil Group C, with a small mix of B/D. Refer to the geotechnical report and boring logs in Appendix B for specific soil layer information. The Hydrological Soil Group on site can be viewed in Appendix C.

Water Quantity Design

Water quantity requirements are regulated by the Milwaukee Metropolitan Sewerage District.

The MMSD requires the “Allowable runoff release rate” for a post-development peak outflow during the 100-year (1% probability) storm event is no more than 0.5 cubic feet per second (cfs) multiplied by the area of the site in acres and a post-development peak outflow during the 2-year (50% probability) storm event is no more than 0.15 cfs multiplied by the area of the site in acres (defined in Chapter 13 Surface and Stormwater Rules and Requirements). The “Allowable runoff volume” is no greater than pre-development volume for both the 100-year and 2-year storm events during the critical time.

Table 2: Proposed Peak Discharge Rates

Design Storm	Area (ac)	Multiplier	Allowable Runoff Release Rate (cfs)	Proposed Peak Discharge (cfs)
2-year/24-hour Type II	81.03	0.15	12.15	6.01
100-year/24-hour Type II	81.03	0.50	40.51	24.87

Table 3: Existing and Proposed Runoff Volumes

Design Storm	Runoff Volume (af)	
	Existing Condition	Proposed Condition
2-year/24-hour Type II	5.73 af	4.47 af
10-year/24-hour Type II	11.27 af	10.46 af
100-year/24-hour Type II	25.40 af	24.70 af

Drainage maps for both the existing and proposed conditions can been viewed in Appendix A. Both existing and proposed conditions were evaluated and can be viewed in the HydroCAD report in Appendix D.

Summary

Stormwater management facilities for the proposed development site were designed according to the Milwaukee Metropolitan Sewerage District Requirements.

Post-development basins are releasing runoff at a rate equal to or lower than the 100-year and 2-year multiplier as required. The total volume being released in the post development condition is less than the existing condition volume flowing offsite.

Appendix A

Pre and Post Development Conditions

LANNON ROAD (CTH Y)

COUNTY LINE ROAD (CTH Q)

1A

1B

1C

1D

1E

ROW

STM

SAN

0 100 200
scale feet

PREPARED FOR:

HOME PATH FINANCIAL

PREPARED BY:

Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM
HOME PATH FINICIAL
GERMANTOWN, WI

EXISTING HYDROLOGY

SUBJECT TO CHANGE
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DESIGNED:	DRAWN:	CHECKED:
NCR	NCR	CDH

PROJECT NO: 0025H025.00

PRINT DATE: 3/24/2025

SHEET NO.

1

CAD FILE: C:\PW_WORKDIR\PW_IEL\D0870509\D0025H025.00\HYDRO-EX.DWG Layout: 1 By: INZZIARDI, NICK

LANNON ROAD (CTH Y)

COUNTY LINE ROAD (CTH Q)

1A
500
500A
400
400A
300
300A
300B
2A
200
200A
100
100A

OUTLOT 1
OUTLOT 2
OUTLOT 3
OUTLOT 4
OUTLOT 5

STM
ROW
SAN
W
FM

0 100 200
scale feet

PREPARED FOR:
HOME PATH FINANCIAL

PREPARED BY:
Foth

NO	DATE	BY	REVISION DESCRIPTION

MOHRHUSEN FARM
HOME PATH FINICIAL
GERMANTOWN, WI

PROPOSED HYDROLOGY

SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

DESIGNED:	DRAWN:	CHECKED:
NCR	NCR	CDH

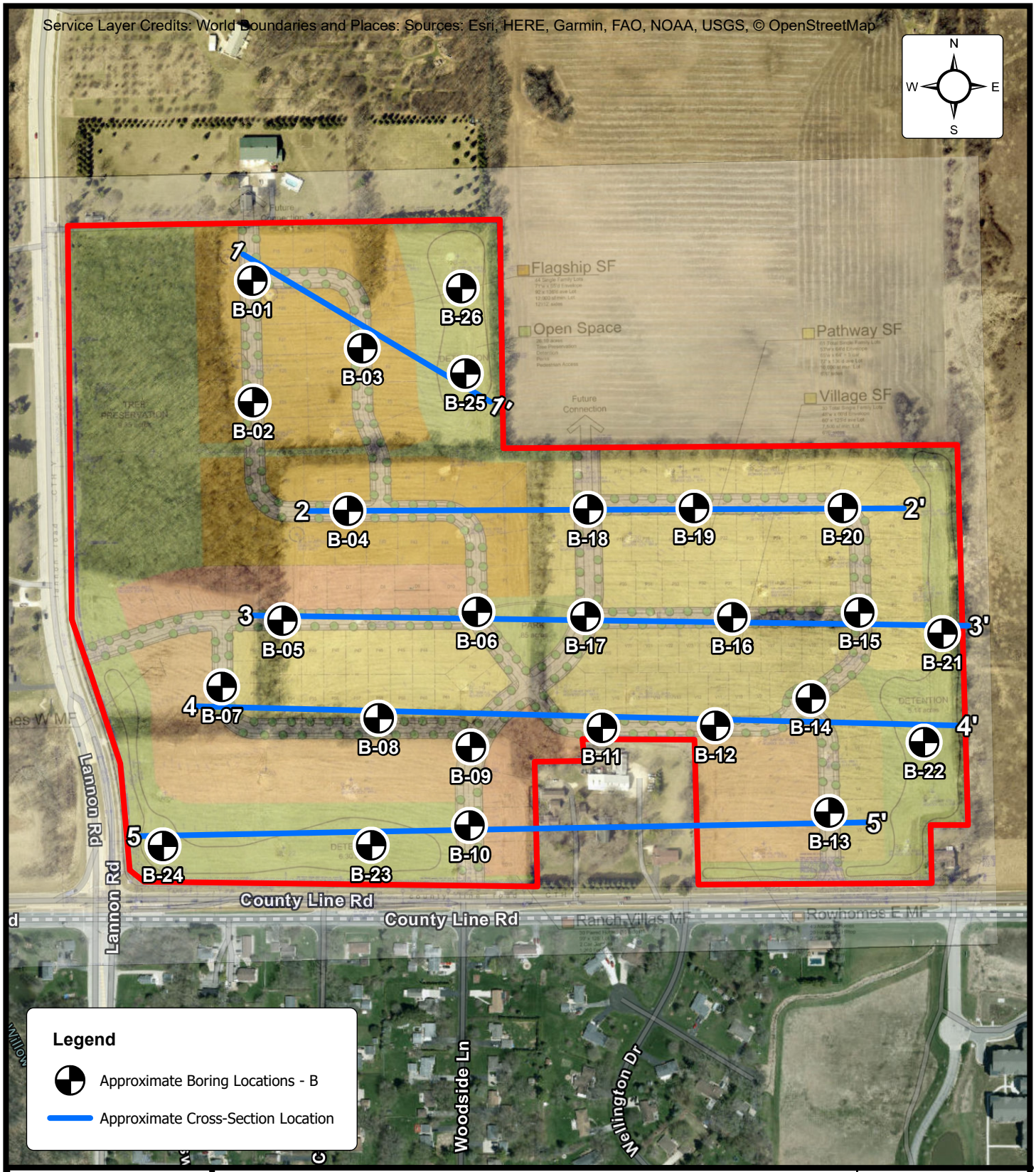
PROJECT NO: 0025H025.00
PRINT DATE: 3/24/2025
SHEET NO.
1

CAD FILE: C:\PW_WORKGROUP\PW_IE\D0970500\0025H025.00-HYDRO-PR.DWG Layout: 1 By: RIZZARDI, NICK

Appendix B

Preliminary Geotechnical Report

DRAFT
for Review & Discussion Purposes Only
01/27/2025



BORING LOCATION DIAGRAM
Mohrhusen Farm

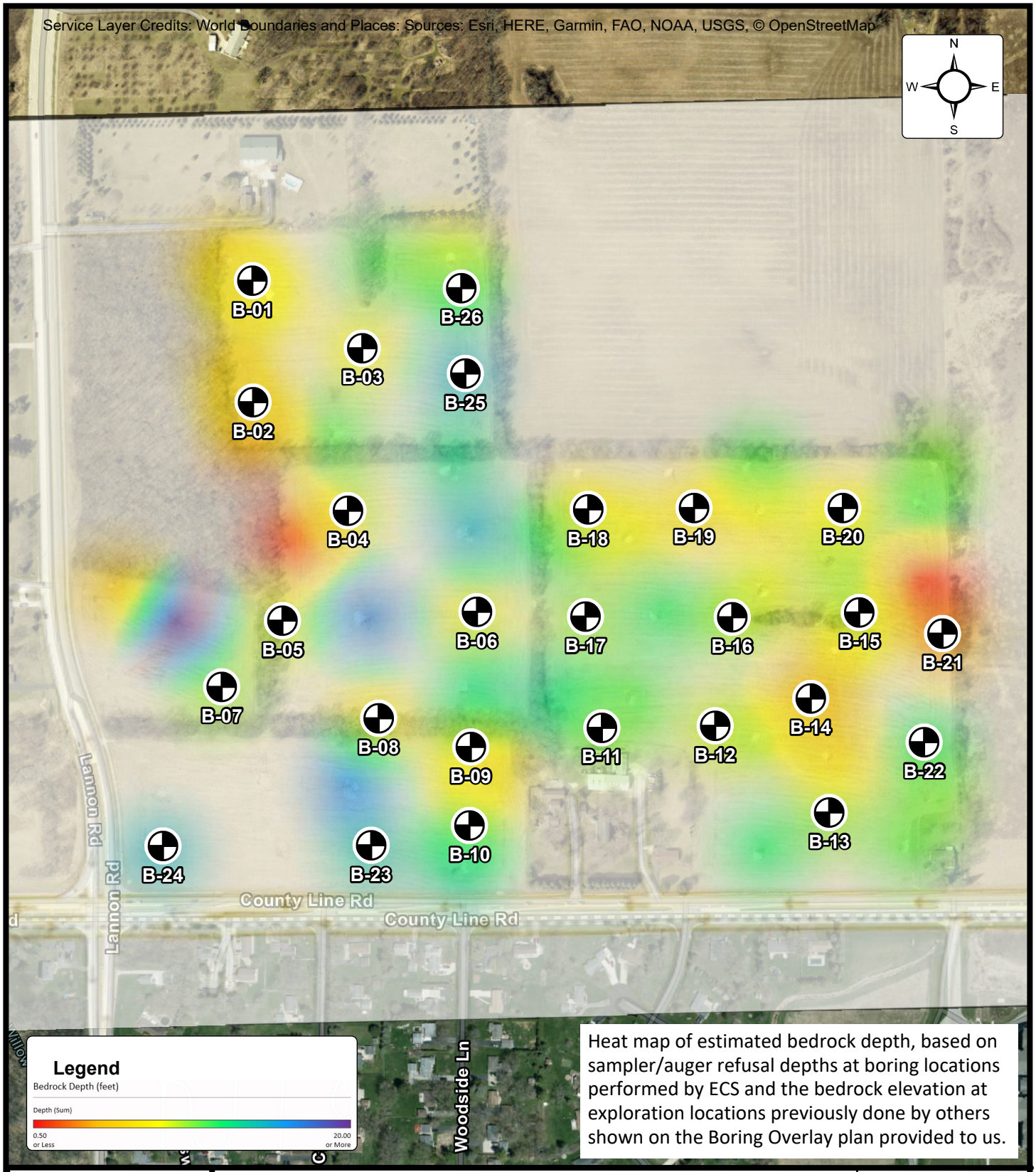
County Line Road & Lannon Road, Germantown, Wisconsin
Home Path Financial

ENGINEER	DM1
SCALE	1" = 400'
PROJECT NO.	42:2684
SHEET	BLD
DATE	1/27/2025

DRAFT
for Review & Discussion Purposes Only
01/27/2025

Boring Number	Approx. GS Elev	Approx. Sampler/Auger Refusal	
		depth	Elev
B-01	906	9.2	896.8
B-02	902	8.8	893.2
B-03	905	8.6	896.4
B-04	905.5	9.2	896.3
B-05	909	9.2	899.9
B-06	897.5	8.7	888.8
B-07	890	> 10	< 880.0
B-08	903	8.0	895.0
B-09	905	> 10	< 895.0
B-10	897	> 10	< 887.0
B-11	902	> 10	< 892.0
B-12	898	9.2	888.8
B-13	883	> 10	< 873.0
B-14	895	3.5	891.5
B-15	887	> 10	< 877.0
B-16	902	> 10	< 892.0
B-17	910	> 10	< 900.0
B-18	921	7.5	913.5
B-19	892	7.0	885.0
B-20	888	8.0	880.0
B-21	884.5	4.0	880.5
B-22	881.5	11.9	869.6
B-23	888.5	14.3	874.3
B-24	880	> 15	< 865.0
B-25	900	> 15	< 885.0
B-26	900	13.0	887.0

DRAFT
for Review & Discussion Purposes Only
01/27/2025



Heat map of estimated bedrock depth, based on sampler/auger refusal depths at boring locations performed by ECS and the bedrock elevation at exploration locations previously done by others shown on the Boring Overlay plan provided to us.

BEDROCK DEPTH HEAT MAP
Mohrhusen Farm

County Line Road & Lannon Road, Germantown, Wisconsin
Home Path Financial

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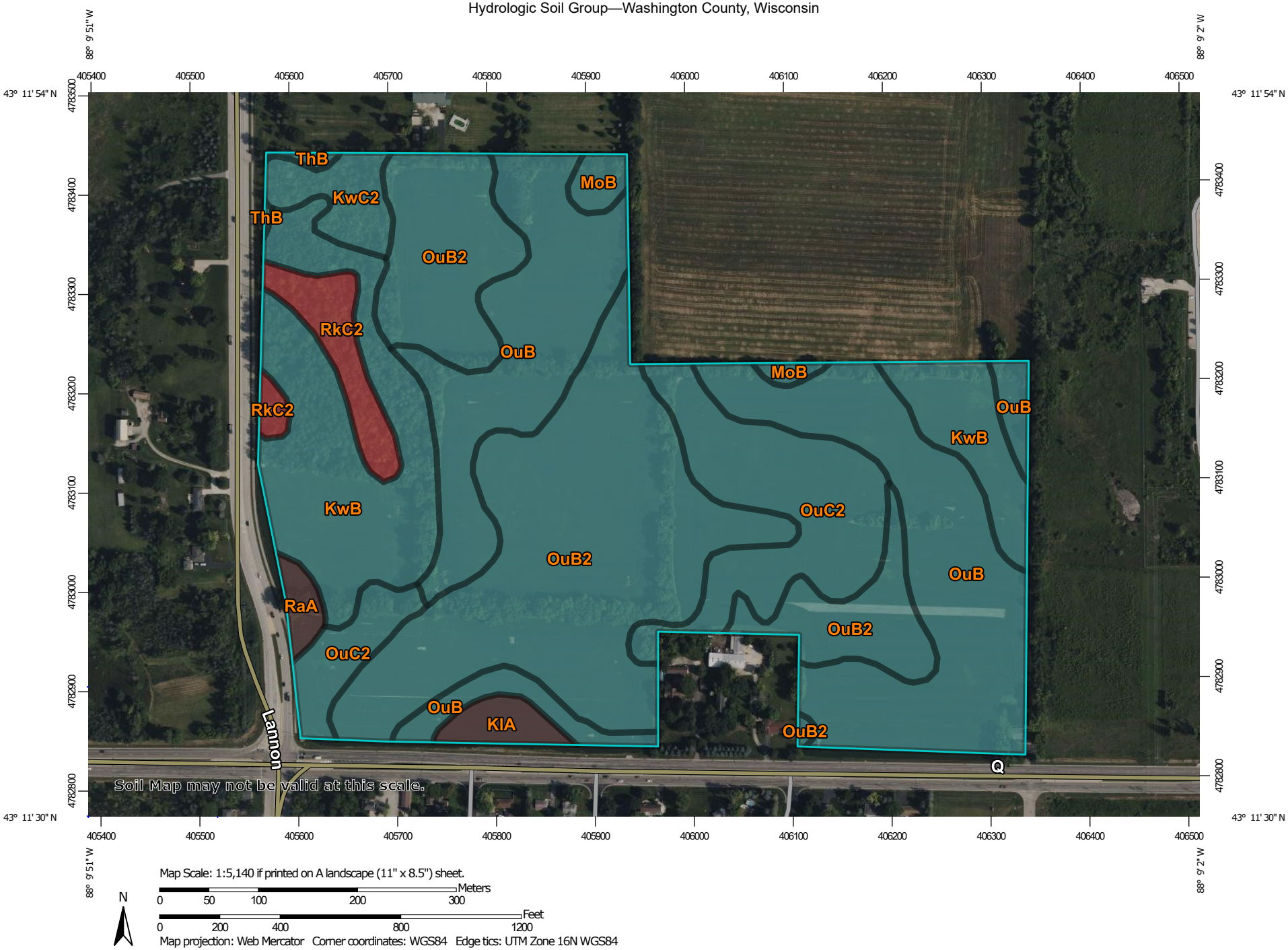
PROJECT NO.	42:2684
SHEET	BRHM
DATE	1/27/2025

Appendix C

NRCS Soil Report



Map Scale: 1:5,140 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 1:15,800.

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: Washington County, Wisconsin
Survey Area Data: Version 24, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 4, 2022—Sep 13, 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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
KlA	Kendall silt loam, 1 to 3 percent slopes	B/D	1.2	1.3%
KwB	Knowles silt loam, 2 to 6 percent slopes	C	14.1	16.1%
KwC2	Knowles silt loam, 6 to 12 percent slopes, eroded	C	2.2	2.5%
MoB	Mayville silt loam, 2 to 6 percent slopes	C	1.0	1.2%
OuB	Ozaukee silt loam, high carbonate substratum, 2 to 6 percent slopes	C	25.5	29.0%
OuB2	Ozaukee silt loam, high carbonate substratum, 2 to 6 percent slopes, eroded	C	29.8	33.9%
OuC2	Ozaukee silt loam, high carbonate substratum, 6 to 12 percent slopes, eroded	C	10.4	11.8%
RaA	Radford silt loam, 0 to 3 percent slopes	B/D	0.7	0.8%
RkC2	Ritchey silt loam, 6 to 12 percent slopes, eroded	D	2.8	3.2%
ThB	Theresa silt loam, 2 to 6 percent slopes	C	0.2	0.3%
Totals for Area of Interest			**88.0**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

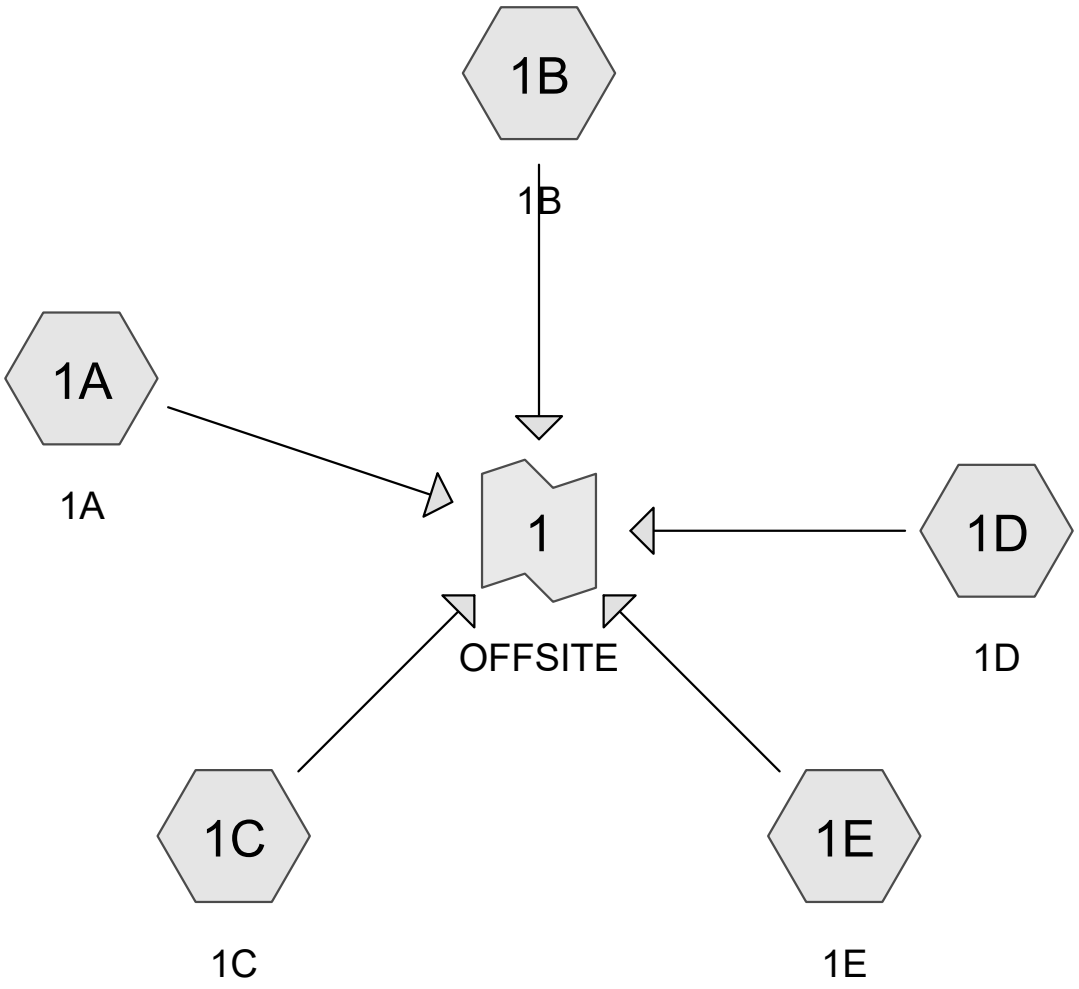
Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Appendix D

HydroCAD Report



Subcat Reach Pond Link

Routing Diagram for Existing Conditions
Prepared by Foth & Van Dyke, LLC, Printed 3/24/2025
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Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	Type 2 - 2-Year	Type II 24-hr		Default	24.00	1	2.68	2
2	Type 2 - 5-Year	Type II 24-hr		Default	24.00	1	3.26	2
3	Type 2 - 10-Year	Type II 24-hr		Default	24.00	1	3.83	2
4	Type 2 - 25-Year	Type II 24-hr		Default	24.00	1	4.71	2
5	Type 2 - 50-Year	Type II 24-hr		Default	24.00	1	5.49	2
6	Type 2 - 100-Year	Type II 24-hr		Default	24.00	1	6.34	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
70.415	78	Cropland (1A, 1B, 1C, 1D, 1E)
10.611	70	Woods, Good, HSG C (1A, 1B, 1C, 1D, 1E)
81.027	**77**	**TOTAL AREA**

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=0.76"
Flow Length=475' Tc=17.9 min CN=75 Runoff=4.65 cfs 0.354 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=0.86"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=7.74 cfs 0.692 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=0.81"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=27.71 cfs 2.254 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=0.91"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=14.22 cfs 1.118 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=0.91"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=14.45 cfs 1.313 af

Link 1: OFFSITE Inflow=67.71 cfs 5.730 af
Primary=67.71 cfs 5.730 af

Total Runoff Area = 81.027 ac Runoff Volume = 5.730 af Average Runoff Depth = 0.85"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

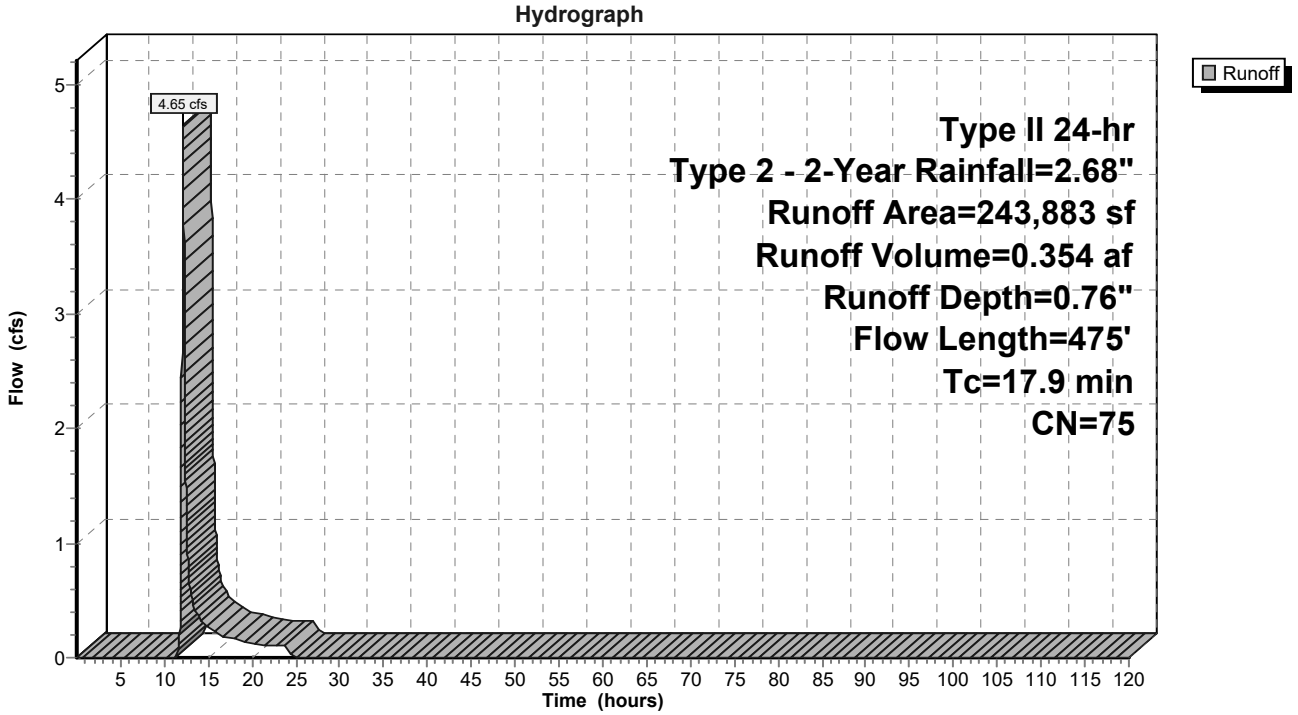
Runoff = 4.65 cfs @ 12.12 hrs, Volume= 0.354 af, Depth= 0.76"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	0.00
12.01	1.78	0.28	**3.11**
14.01	2.20	0.48	**0.34**
16.01	2.36	0.57	0.21
18.01	2.47	0.63	0.16
20.01	2.55	0.68	0.12
22.01	**2.62**	**0.72**	0.11
24.01	**2.68**	**0.76**	0.10
26.01	2.68	0.76	0.00
28.01	2.68	0.76	0.00
30.01	2.68	0.76	0.00
32.01	2.68	0.76	0.00
34.01	2.68	0.76	0.00
36.01	2.68	0.76	0.00
38.01	2.68	0.76	0.00
40.01	2.68	0.76	0.00
42.01	2.68	0.76	0.00
44.01	2.68	0.76	0.00
46.01	2.68	0.76	0.00
48.01	2.68	0.76	0.00
50.01	2.68	0.76	0.00
52.01	2.68	0.76	0.00
54.01	2.68	0.76	0.00
56.01	2.68	0.76	0.00
58.01	2.68	0.76	0.00
60.01	2.68	0.76	0.00
62.01	2.68	0.76	0.00
64.01	2.68	0.76	0.00
66.01	2.68	0.76	0.00
68.01	2.68	0.76	0.00
70.01	2.68	0.76	0.00
72.01	2.68	0.76	0.00
74.01	2.68	0.76	0.00
76.01	2.68	0.76	0.00
78.01	2.68	0.76	0.00
80.01	2.68	0.76	0.00
82.01	2.68	0.76	0.00
84.01	2.68	0.76	0.00
86.01	2.68	0.76	0.00
88.01	2.68	0.76	0.00
90.01	2.68	0.76	0.00
92.01	2.68	0.76	0.00
94.01	2.68	0.76	0.00
96.01	2.68	0.76	0.00
98.01	2.68	0.76	0.00
100.01	2.68	0.76	0.00
102.01	2.68	0.76	0.00
104.01	2.68	0.76	0.00
106.01	2.68	0.76	0.00
108.01	2.68	0.76	0.00
110.01	2.68	0.76	0.00
112.01	2.68	0.76	0.00
114.01	2.68	0.76	0.00
116.01	2.68	0.76	0.00
118.01	2.68	0.76	0.00

Summary for Subcatchment 1B: 1B

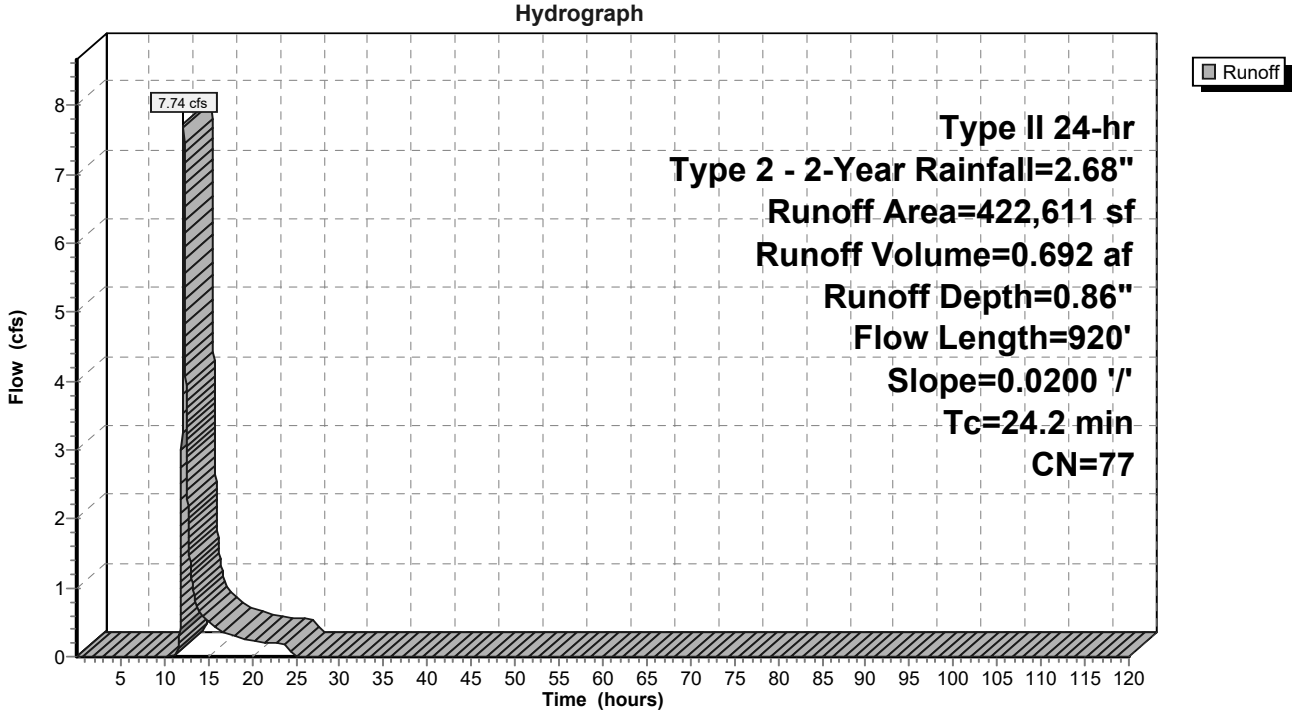
Runoff = 7.74 cfs @ 12.18 hrs, Volume= 0.692 af, Depth= 0.86"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	0.00
12.01	1.78	0.34	**3.81**
14.01	2.20	0.56	**0.66**
16.01	2.36	0.65	0.40
18.01	2.47	0.72	0.31
20.01	2.55	0.77	0.23
22.01	**2.62**	**0.82**	0.21
24.01	**2.68**	**0.86**	0.19
26.01	2.68	0.86	0.00
28.01	2.68	0.86	0.00
30.01	2.68	0.86	0.00
32.01	2.68	0.86	0.00
34.01	2.68	0.86	0.00
36.01	2.68	0.86	0.00
38.01	2.68	0.86	0.00
40.01	2.68	0.86	0.00
42.01	2.68	0.86	0.00
44.01	2.68	0.86	0.00
46.01	2.68	0.86	0.00
48.01	2.68	0.86	0.00
50.01	2.68	0.86	0.00
52.01	2.68	0.86	0.00
54.01	2.68	0.86	0.00
56.01	2.68	0.86	0.00
58.01	2.68	0.86	0.00
60.01	2.68	0.86	0.00
62.01	2.68	0.86	0.00
64.01	2.68	0.86	0.00
66.01	2.68	0.86	0.00
68.01	2.68	0.86	0.00
70.01	2.68	0.86	0.00
72.01	2.68	0.86	0.00
74.01	2.68	0.86	0.00
76.01	2.68	0.86	0.00
78.01	2.68	0.86	0.00
80.01	2.68	0.86	0.00
82.01	2.68	0.86	0.00
84.01	2.68	0.86	0.00
86.01	2.68	0.86	0.00
88.01	2.68	0.86	0.00
90.01	2.68	0.86	0.00
92.01	2.68	0.86	0.00
94.01	2.68	0.86	0.00
96.01	2.68	0.86	0.00
98.01	2.68	0.86	0.00
100.01	2.68	0.86	0.00
102.01	2.68	0.86	0.00
104.01	2.68	0.86	0.00
106.01	2.68	0.86	0.00
108.01	2.68	0.86	0.00
110.01	2.68	0.86	0.00
112.01	2.68	0.86	0.00
114.01	2.68	0.86	0.00
116.01	2.68	0.86	0.00
118.01	2.68	0.86	0.00

Summary for Subcatchment 1C: 1C

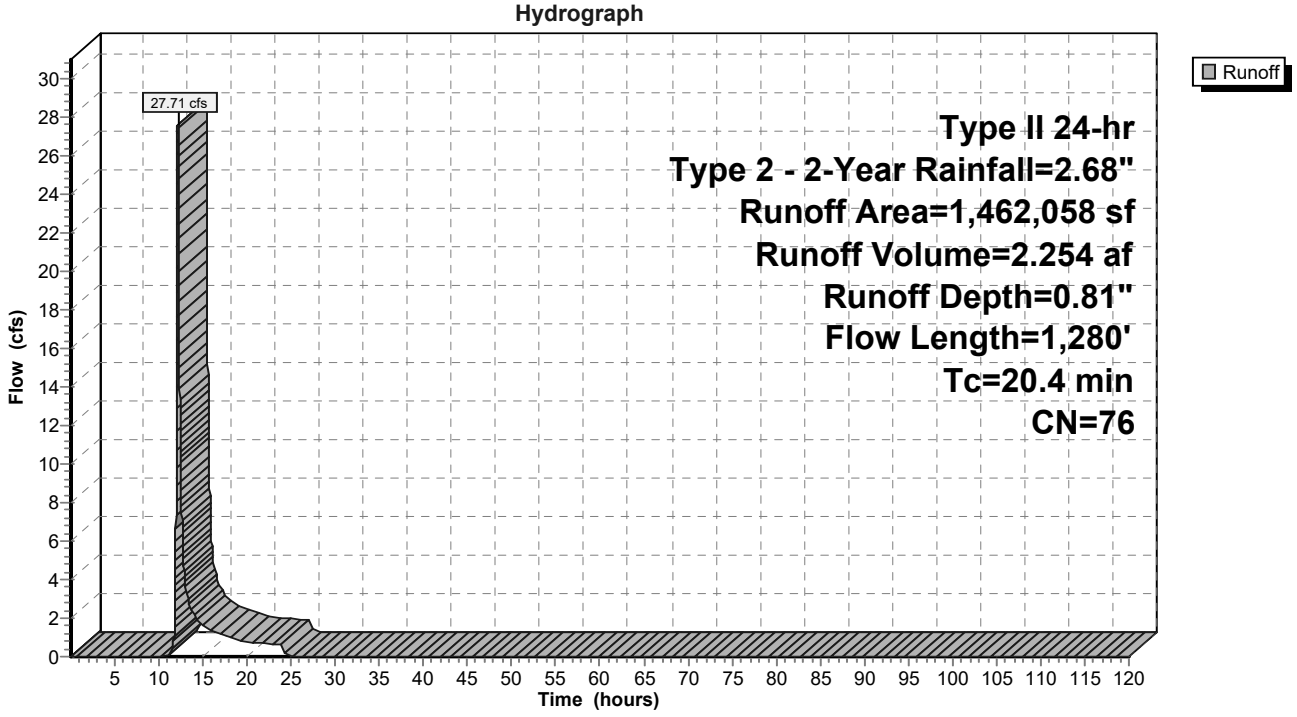
Runoff = 27.71 cfs @ 12.15 hrs, Volume= 2.254 af, Depth= 0.81"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	0.00
12.01	1.78	0.31	**16.44**
14.01	2.20	0.52	**2.14**
16.01	2.36	0.61	1.32
18.01	2.47	0.68	1.02
20.01	2.55	0.73	0.76
22.01	**2.62**	**0.77**	0.69
24.01	**2.68**	**0.81**	0.64
26.01	2.68	0.81	0.00
28.01	2.68	0.81	0.00
30.01	2.68	0.81	0.00
32.01	2.68	0.81	0.00
34.01	2.68	0.81	0.00
36.01	2.68	0.81	0.00
38.01	2.68	0.81	0.00
40.01	2.68	0.81	0.00
42.01	2.68	0.81	0.00
44.01	2.68	0.81	0.00
46.01	2.68	0.81	0.00
48.01	2.68	0.81	0.00
50.01	2.68	0.81	0.00
52.01	2.68	0.81	0.00
54.01	2.68	0.81	0.00
56.01	2.68	0.81	0.00
58.01	2.68	0.81	0.00
60.01	2.68	0.81	0.00
62.01	2.68	0.81	0.00
64.01	2.68	0.81	0.00
66.01	2.68	0.81	0.00
68.01	2.68	0.81	0.00
70.01	2.68	0.81	0.00
72.01	2.68	0.81	0.00
74.01	2.68	0.81	0.00
76.01	2.68	0.81	0.00
78.01	2.68	0.81	0.00
80.01	2.68	0.81	0.00
82.01	2.68	0.81	0.00
84.01	2.68	0.81	0.00
86.01	2.68	0.81	0.00
88.01	2.68	0.81	0.00
90.01	2.68	0.81	0.00
92.01	2.68	0.81	0.00
94.01	2.68	0.81	0.00
96.01	2.68	0.81	0.00
98.01	2.68	0.81	0.00
100.01	2.68	0.81	0.00
102.01	2.68	0.81	0.00
104.01	2.68	0.81	0.00
106.01	2.68	0.81	0.00
108.01	2.68	0.81	0.00
110.01	2.68	0.81	0.00
112.01	2.68	0.81	0.00
114.01	2.68	0.81	0.00
116.01	2.68	0.81	0.00
118.01	2.68	0.81	0.00

Summary for Subcatchment 1D: 1D

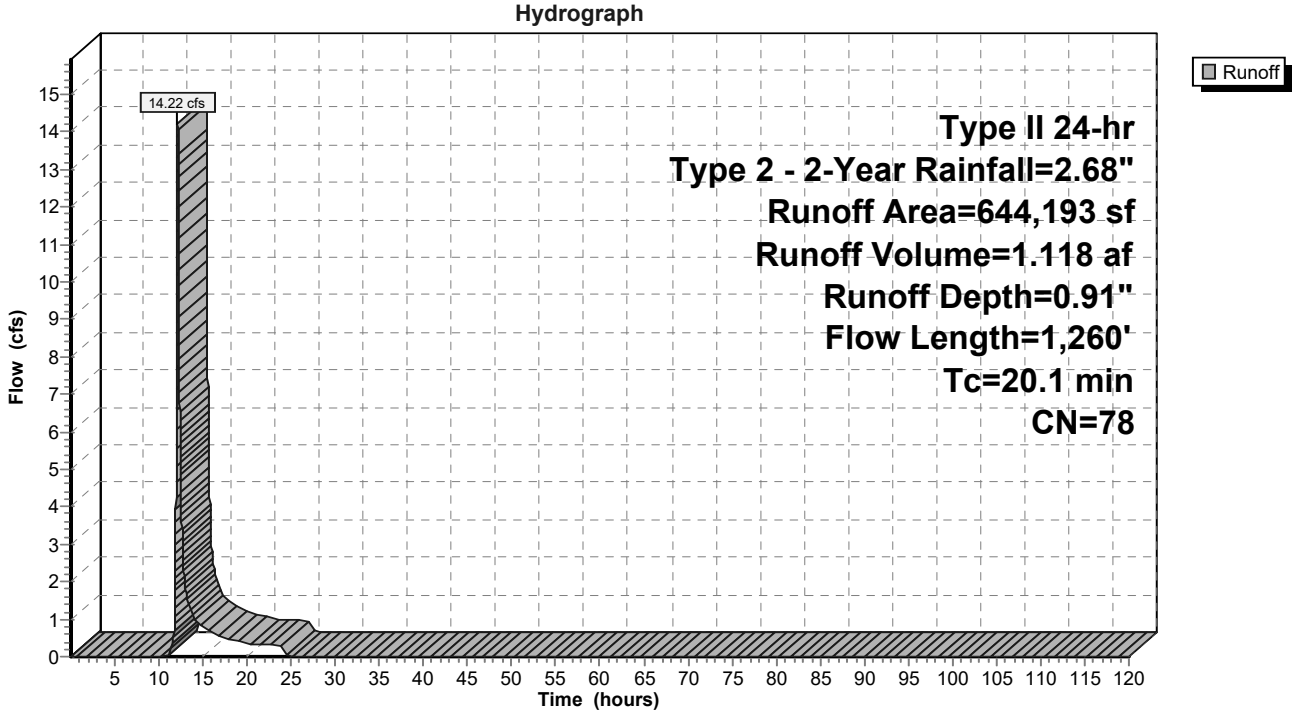
Runoff = 14.22 cfs @ 12.13 hrs, Volume= 1.118 af, Depth= 0.91"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	0.00
12.01	1.78	0.37	**8.94**
14.01	2.20	0.60	**1.02**
16.01	2.36	0.70	0.63
18.01	2.47	0.77	0.48
20.01	2.55	0.82	0.36
22.01	**2.62**	**0.87**	0.32
24.01	**2.68**	**0.91**	0.30
26.01	2.68	0.91	0.00
28.01	2.68	0.91	0.00
30.01	2.68	0.91	0.00
32.01	2.68	0.91	0.00
34.01	2.68	0.91	0.00
36.01	2.68	0.91	0.00
38.01	2.68	0.91	0.00
40.01	2.68	0.91	0.00
42.01	2.68	0.91	0.00
44.01	2.68	0.91	0.00
46.01	2.68	0.91	0.00
48.01	2.68	0.91	0.00
50.01	2.68	0.91	0.00
52.01	2.68	0.91	0.00
54.01	2.68	0.91	0.00
56.01	2.68	0.91	0.00
58.01	2.68	0.91	0.00
60.01	2.68	0.91	0.00
62.01	2.68	0.91	0.00
64.01	2.68	0.91	0.00
66.01	2.68	0.91	0.00
68.01	2.68	0.91	0.00
70.01	2.68	0.91	0.00
72.01	2.68	0.91	0.00
74.01	2.68	0.91	0.00
76.01	2.68	0.91	0.00
78.01	2.68	0.91	0.00
80.01	2.68	0.91	0.00
82.01	2.68	0.91	0.00
84.01	2.68	0.91	0.00
86.01	2.68	0.91	0.00
88.01	2.68	0.91	0.00
90.01	2.68	0.91	0.00
92.01	2.68	0.91	0.00
94.01	2.68	0.91	0.00
96.01	2.68	0.91	0.00
98.01	2.68	0.91	0.00
100.01	2.68	0.91	0.00
102.01	2.68	0.91	0.00
104.01	2.68	0.91	0.00
106.01	2.68	0.91	0.00
108.01	2.68	0.91	0.00
110.01	2.68	0.91	0.00
112.01	2.68	0.91	0.00
114.01	2.68	0.91	0.00
116.01	2.68	0.91	0.00
118.01	2.68	0.91	0.00

Summary for Subcatchment 1E: 1E

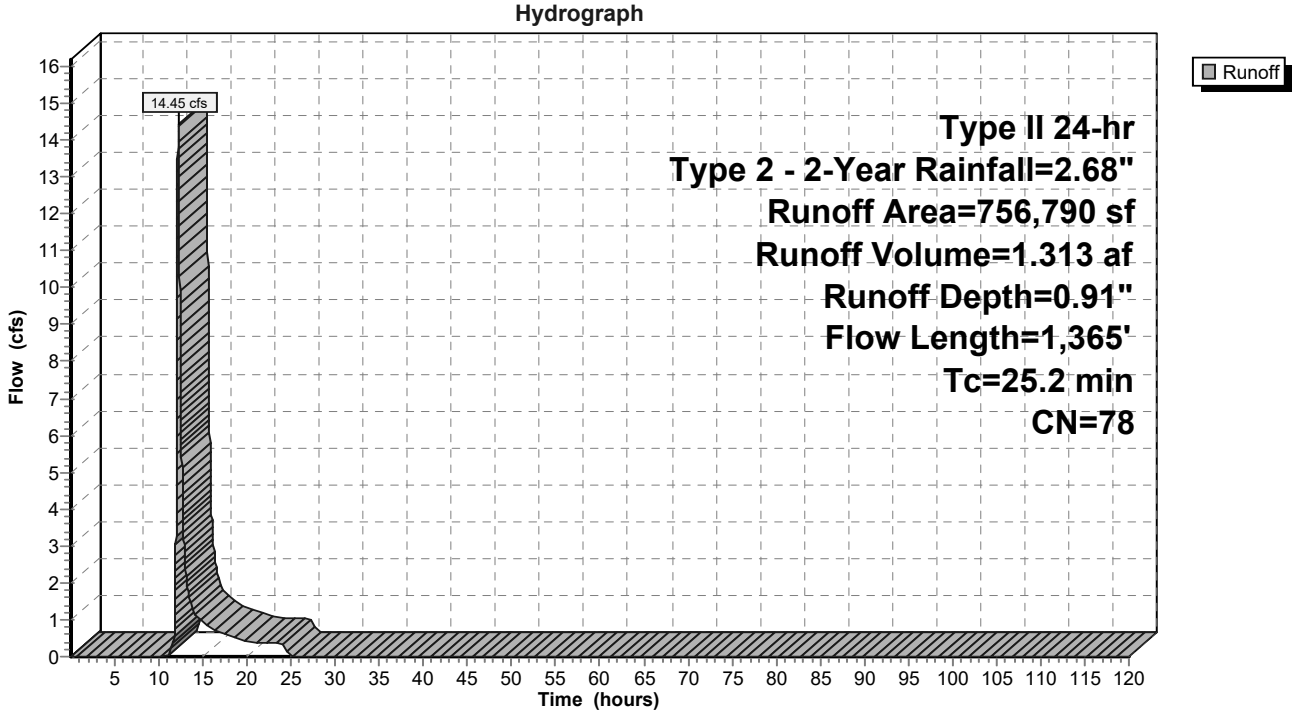
Runoff = 14.45 cfs @ 12.20 hrs, Volume= 1.313 af, Depth= 0.91"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

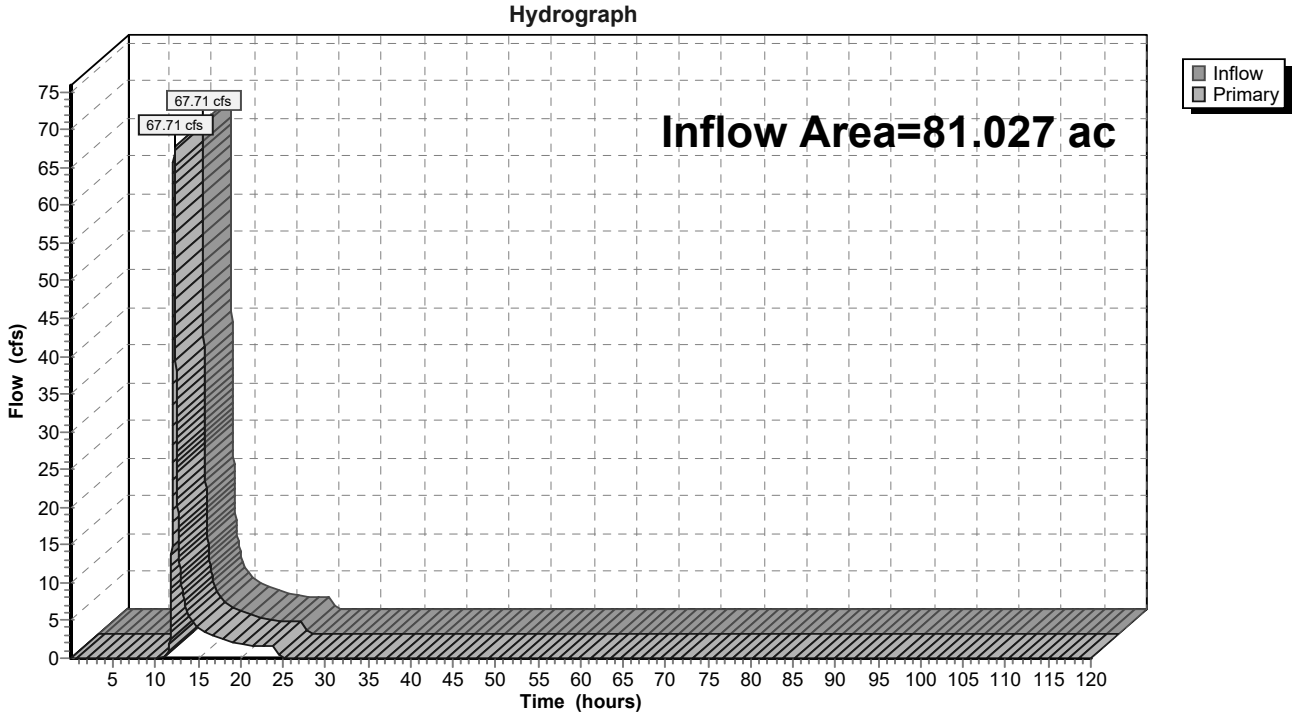
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	0.00
12.01	1.78	0.37	**6.96**
14.01	2.20	0.60	**1.24**
16.01	2.36	0.70	0.75
18.01	2.47	0.77	0.57
20.01	2.55	0.82	0.43
22.01	**2.62**	**0.87**	0.38
24.01	**2.68**	**0.91**	0.35
26.01	2.68	0.91	0.00
28.01	2.68	0.91	0.00
30.01	2.68	0.91	0.00
32.01	2.68	0.91	0.00
34.01	2.68	0.91	0.00
36.01	2.68	0.91	0.00
38.01	2.68	0.91	0.00
40.01	2.68	0.91	0.00
42.01	2.68	0.91	0.00
44.01	2.68	0.91	0.00
46.01	2.68	0.91	0.00
48.01	2.68	0.91	0.00
50.01	2.68	0.91	0.00
52.01	2.68	0.91	0.00
54.01	2.68	0.91	0.00
56.01	2.68	0.91	0.00
58.01	2.68	0.91	0.00
60.01	2.68	0.91	0.00
62.01	2.68	0.91	0.00
64.01	2.68	0.91	0.00
66.01	2.68	0.91	0.00
68.01	2.68	0.91	0.00
70.01	2.68	0.91	0.00
72.01	2.68	0.91	0.00
74.01	2.68	0.91	0.00
76.01	2.68	0.91	0.00
78.01	2.68	0.91	0.00
80.01	2.68	0.91	0.00
82.01	2.68	0.91	0.00
84.01	2.68	0.91	0.00
86.01	2.68	0.91	0.00
88.01	2.68	0.91	0.00
90.01	2.68	0.91	0.00
92.01	2.68	0.91	0.00
94.01	2.68	0.91	0.00
96.01	2.68	0.91	0.00
98.01	2.68	0.91	0.00
100.01	2.68	0.91	0.00
102.01	2.68	0.91	0.00
104.01	2.68	0.91	0.00
106.01	2.68	0.91	0.00
108.01	2.68	0.91	0.00
110.01	2.68	0.91	0.00
112.01	2.68	0.91	0.00
114.01	2.68	0.91	0.00
116.01	2.68	0.91	0.00
118.01	2.68	0.91	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 0.85" for Type 2 - 2-Year event
Inflow = 67.71 cfs @ 12.16 hrs, Volume= 5.730 af
Primary = 67.71 cfs @ 12.16 hrs, Volume= 5.730 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	0.00	0.00	0.00
12.01	**39.25**	0.00	**39.25**
14.01	**5.41**	0.00	**5.41**
16.01	3.31	0.00	3.31
18.01	2.54	0.00	2.54
20.01	1.90	0.00	1.90
22.01	1.70	0.00	1.70
24.01	1.59	0.00	1.59
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=1.13"
Flow Length=475' Tc=17.9 min CN=75 Runoff=7.26 cfs 0.529 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=1.25"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=11.77 cfs 1.015 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=1.19"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=42.60 cfs 3.340 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=1.32"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=21.23 cfs 1.624 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=1.32"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=21.64 cfs 1.907 af

Link 1: OFFSITE Inflow=102.97 cfs 8.415 af
Primary=102.97 cfs 8.415 af

Total Runoff Area = 81.027 ac Runoff Volume = 8.415 af Average Runoff Depth = 1.25"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

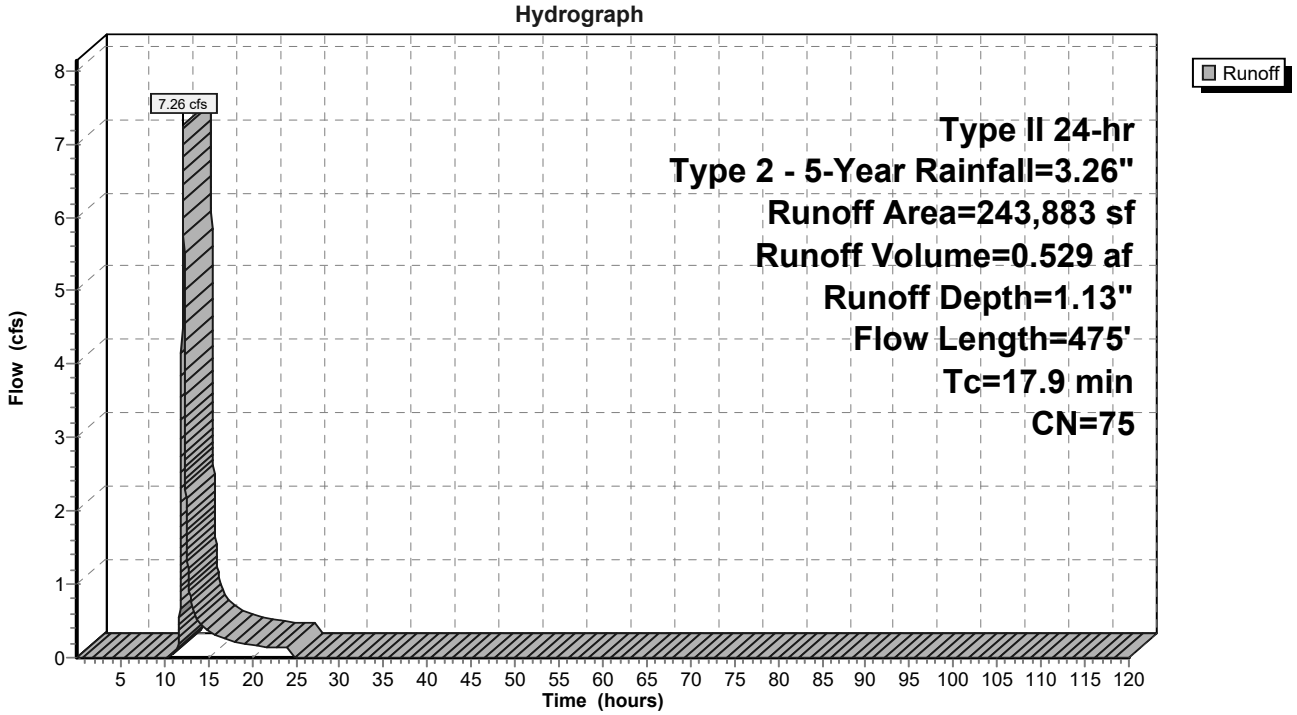
Runoff = 7.26 cfs @ 12.11 hrs, Volume= 0.529 af, Depth= 1.13"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.00	0.00
12.01	2.17	0.47	**5.15**
14.01	2.67	0.75	**0.47**
16.01	2.87	0.88	0.29
18.01	3.00	0.96	0.22
20.01	3.10	1.03	0.17
22.01	**3.19**	**1.08**	0.15
24.01	**3.26**	**1.13**	0.14
26.01	3.26	1.13	0.00
28.01	3.26	1.13	0.00
30.01	3.26	1.13	0.00
32.01	3.26	1.13	0.00
34.01	3.26	1.13	0.00
36.01	3.26	1.13	0.00
38.01	3.26	1.13	0.00
40.01	3.26	1.13	0.00
42.01	3.26	1.13	0.00
44.01	3.26	1.13	0.00
46.01	3.26	1.13	0.00
48.01	3.26	1.13	0.00
50.01	3.26	1.13	0.00
52.01	3.26	1.13	0.00
54.01	3.26	1.13	0.00
56.01	3.26	1.13	0.00
58.01	3.26	1.13	0.00
60.01	3.26	1.13	0.00
62.01	3.26	1.13	0.00
64.01	3.26	1.13	0.00
66.01	3.26	1.13	0.00
68.01	3.26	1.13	0.00
70.01	3.26	1.13	0.00
72.01	3.26	1.13	0.00
74.01	3.26	1.13	0.00
76.01	3.26	1.13	0.00
78.01	3.26	1.13	0.00
80.01	3.26	1.13	0.00
82.01	3.26	1.13	0.00
84.01	3.26	1.13	0.00
86.01	3.26	1.13	0.00
88.01	3.26	1.13	0.00
90.01	3.26	1.13	0.00
92.01	3.26	1.13	0.00
94.01	3.26	1.13	0.00
96.01	3.26	1.13	0.00
98.01	3.26	1.13	0.00
100.01	3.26	1.13	0.00
102.01	3.26	1.13	0.00
104.01	3.26	1.13	0.00
106.01	3.26	1.13	0.00
108.01	3.26	1.13	0.00
110.01	3.26	1.13	0.00
112.01	3.26	1.13	0.00
114.01	3.26	1.13	0.00
116.01	3.26	1.13	0.00
118.01	3.26	1.13	0.00

Summary for Subcatchment 1B: 1B

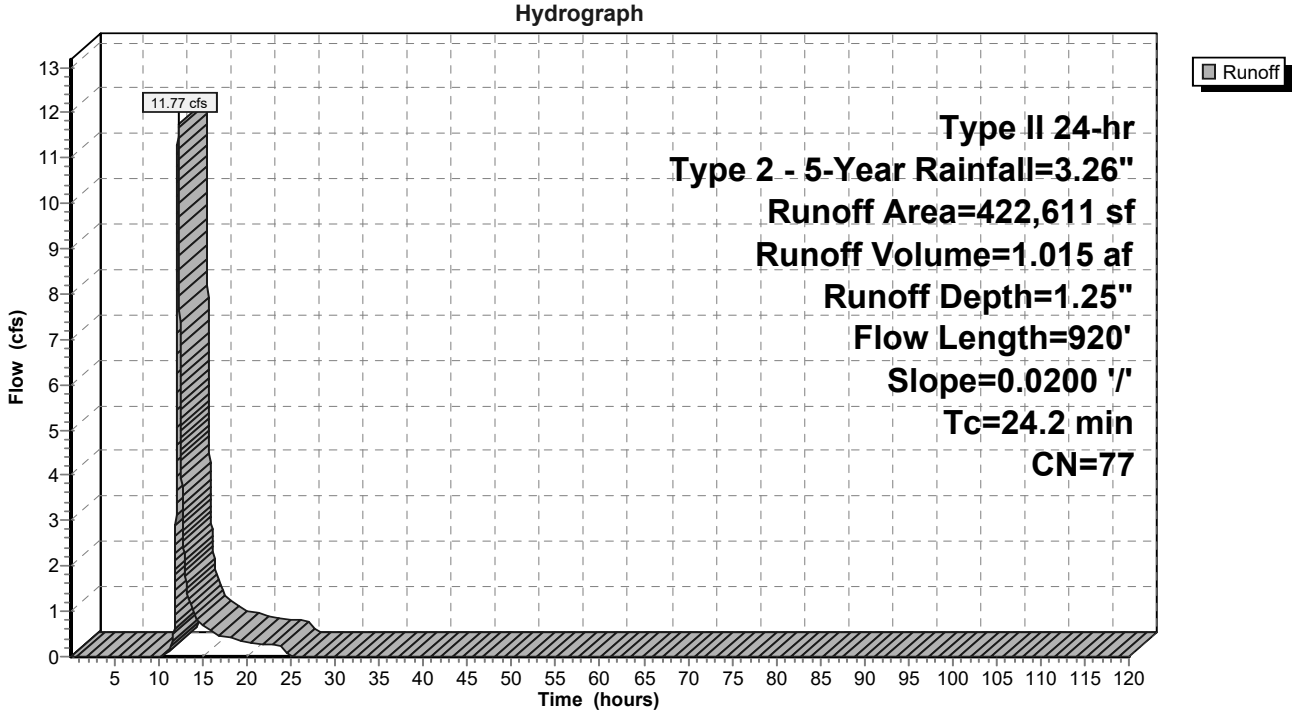
Runoff = 11.77 cfs @ 12.18 hrs, Volume= 1.015 af, Depth= 1.25"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.00	0.00
12.01	2.17	0.54	**6.27**
14.01	2.67	0.85	**0.92**
16.01	2.87	0.98	0.55
18.01	3.00	1.07	0.42
20.01	3.10	1.14	0.31
22.01	**3.19**	**1.20**	0.28
24.01	**3.26**	**1.25**	0.26
26.01	3.26	1.25	0.00
28.01	3.26	1.25	0.00
30.01	3.26	1.25	0.00
32.01	3.26	1.25	0.00
34.01	3.26	1.25	0.00
36.01	3.26	1.25	0.00
38.01	3.26	1.25	0.00
40.01	3.26	1.25	0.00
42.01	3.26	1.25	0.00
44.01	3.26	1.25	0.00
46.01	3.26	1.25	0.00
48.01	3.26	1.25	0.00
50.01	3.26	1.25	0.00
52.01	3.26	1.25	0.00
54.01	3.26	1.25	0.00
56.01	3.26	1.25	0.00
58.01	3.26	1.25	0.00
60.01	3.26	1.25	0.00
62.01	3.26	1.25	0.00
64.01	3.26	1.25	0.00
66.01	3.26	1.25	0.00
68.01	3.26	1.25	0.00
70.01	3.26	1.25	0.00
72.01	3.26	1.25	0.00
74.01	3.26	1.25	0.00
76.01	3.26	1.25	0.00
78.01	3.26	1.25	0.00
80.01	3.26	1.25	0.00
82.01	3.26	1.25	0.00
84.01	3.26	1.25	0.00
86.01	3.26	1.25	0.00
88.01	3.26	1.25	0.00
90.01	3.26	1.25	0.00
92.01	3.26	1.25	0.00
94.01	3.26	1.25	0.00
96.01	3.26	1.25	0.00
98.01	3.26	1.25	0.00
100.01	3.26	1.25	0.00
102.01	3.26	1.25	0.00
104.01	3.26	1.25	0.00
106.01	3.26	1.25	0.00
108.01	3.26	1.25	0.00
110.01	3.26	1.25	0.00
112.01	3.26	1.25	0.00
114.01	3.26	1.25	0.00
116.01	3.26	1.25	0.00
118.01	3.26	1.25	0.00

Summary for Subcatchment 1C: 1C

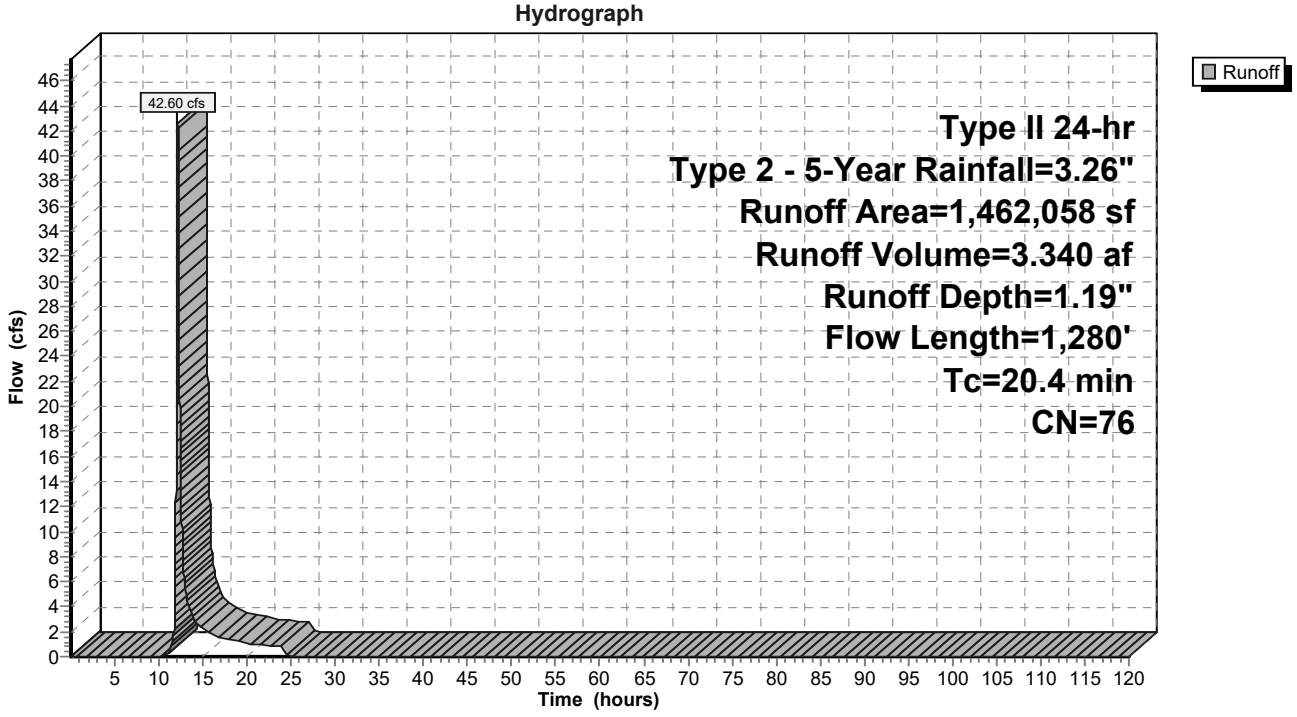
Runoff = 42.60 cfs @ 12.14 hrs, Volume= 3.340 af, Depth= 1.19"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.00	0.00
12.01	2.17	0.50	**27.08**
14.01	2.67	0.80	**2.98**
16.01	2.87	0.93	1.81
18.01	3.00	1.02	1.39
20.01	3.10	1.09	1.04
22.01	**3.19**	**1.14**	0.93
24.01	**3.26**	**1.19**	0.86
26.01	3.26	1.19	0.00
28.01	3.26	1.19	0.00
30.01	3.26	1.19	0.00
32.01	3.26	1.19	0.00
34.01	3.26	1.19	0.00
36.01	3.26	1.19	0.00
38.01	3.26	1.19	0.00
40.01	3.26	1.19	0.00
42.01	3.26	1.19	0.00
44.01	3.26	1.19	0.00
46.01	3.26	1.19	0.00
48.01	3.26	1.19	0.00
50.01	3.26	1.19	0.00
52.01	3.26	1.19	0.00
54.01	3.26	1.19	0.00
56.01	3.26	1.19	0.00
58.01	3.26	1.19	0.00
60.01	3.26	1.19	0.00
62.01	3.26	1.19	0.00
64.01	3.26	1.19	0.00
66.01	3.26	1.19	0.00
68.01	3.26	1.19	0.00
70.01	3.26	1.19	0.00
72.01	3.26	1.19	0.00
74.01	3.26	1.19	0.00
76.01	3.26	1.19	0.00
78.01	3.26	1.19	0.00
80.01	3.26	1.19	0.00
82.01	3.26	1.19	0.00
84.01	3.26	1.19	0.00
86.01	3.26	1.19	0.00
88.01	3.26	1.19	0.00
90.01	3.26	1.19	0.00
92.01	3.26	1.19	0.00
94.01	3.26	1.19	0.00
96.01	3.26	1.19	0.00
98.01	3.26	1.19	0.00
100.01	3.26	1.19	0.00
102.01	3.26	1.19	0.00
104.01	3.26	1.19	0.00
106.01	3.26	1.19	0.00
108.01	3.26	1.19	0.00
110.01	3.26	1.19	0.00
112.01	3.26	1.19	0.00
114.01	3.26	1.19	0.00
116.01	3.26	1.19	0.00
118.01	3.26	1.19	0.00

Summary for Subcatchment 1D: 1D

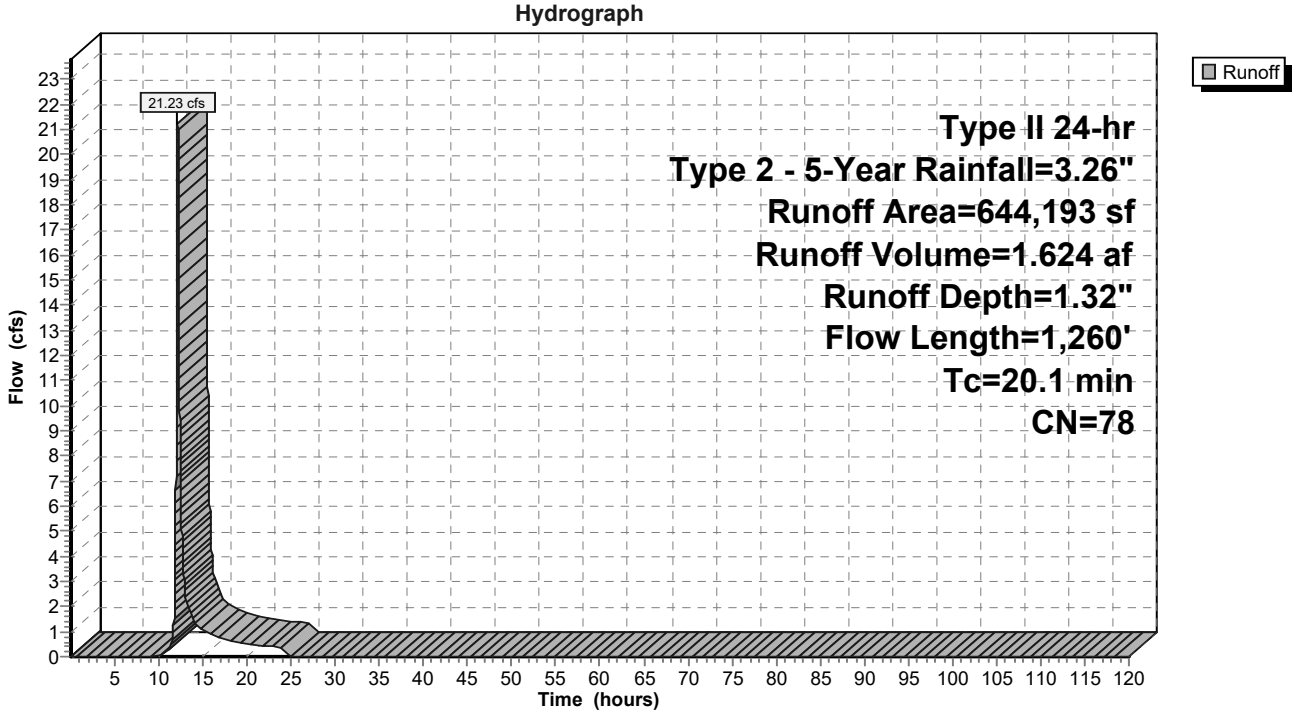
Runoff = 21.23 cfs @ 12.13 hrs, Volume= 1.624 af, Depth= 1.32"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.00	0.00
12.01	2.17	0.58	**14.04**
14.01	2.67	0.90	**1.40**
16.01	2.87	1.04	0.85
18.01	3.00	1.13	0.65
20.01	3.10	1.20	0.48
22.01	**3.19**	**1.26**	0.43
24.01	**3.26**	**1.32**	0.40
26.01	3.26	1.32	0.00
28.01	3.26	1.32	0.00
30.01	3.26	1.32	0.00
32.01	3.26	1.32	0.00
34.01	3.26	1.32	0.00
36.01	3.26	1.32	0.00
38.01	3.26	1.32	0.00
40.01	3.26	1.32	0.00
42.01	3.26	1.32	0.00
44.01	3.26	1.32	0.00
46.01	3.26	1.32	0.00
48.01	3.26	1.32	0.00
50.01	3.26	1.32	0.00
52.01	3.26	1.32	0.00
54.01	3.26	1.32	0.00
56.01	3.26	1.32	0.00
58.01	3.26	1.32	0.00
60.01	3.26	1.32	0.00
62.01	3.26	1.32	0.00
64.01	3.26	1.32	0.00
66.01	3.26	1.32	0.00
68.01	3.26	1.32	0.00
70.01	3.26	1.32	0.00
72.01	3.26	1.32	0.00
74.01	3.26	1.32	0.00
76.01	3.26	1.32	0.00
78.01	3.26	1.32	0.00
80.01	3.26	1.32	0.00
82.01	3.26	1.32	0.00
84.01	3.26	1.32	0.00
86.01	3.26	1.32	0.00
88.01	3.26	1.32	0.00
90.01	3.26	1.32	0.00
92.01	3.26	1.32	0.00
94.01	3.26	1.32	0.00
96.01	3.26	1.32	0.00
98.01	3.26	1.32	0.00
100.01	3.26	1.32	0.00
102.01	3.26	1.32	0.00
104.01	3.26	1.32	0.00
106.01	3.26	1.32	0.00
108.01	3.26	1.32	0.00
110.01	3.26	1.32	0.00
112.01	3.26	1.32	0.00
114.01	3.26	1.32	0.00
116.01	3.26	1.32	0.00
118.01	3.26	1.32	0.00

Summary for Subcatchment 1E: 1E

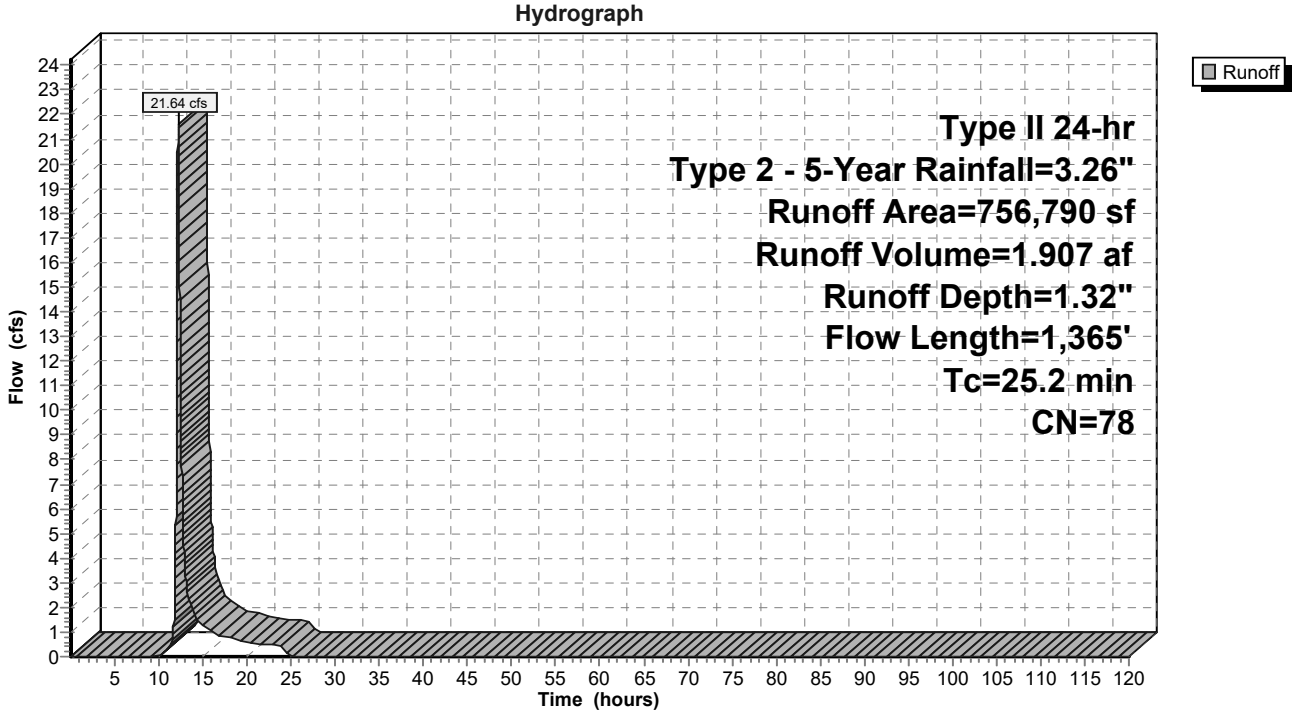
Runoff = 21.64 cfs @ 12.19 hrs, Volume= 1.907 af, Depth= 1.32"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

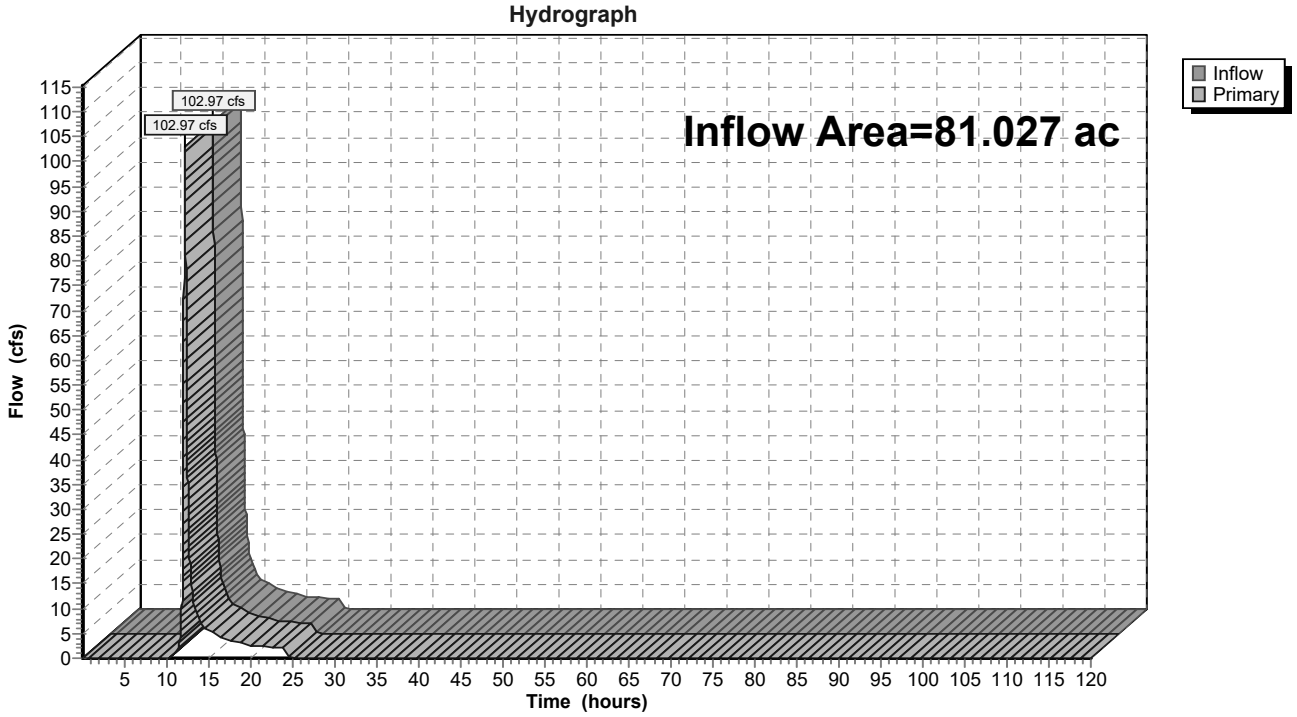
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.00	0.00
12.01	2.17	0.58	**11.23**
14.01	2.67	0.90	**1.71**
16.01	2.87	1.04	1.02
18.01	3.00	1.13	0.77
20.01	3.10	1.20	0.57
22.01	**3.19**	**1.26**	0.51
24.01	**3.26**	**1.32**	0.47
26.01	3.26	1.32	0.00
28.01	3.26	1.32	0.00
30.01	3.26	1.32	0.00
32.01	3.26	1.32	0.00
34.01	3.26	1.32	0.00
36.01	3.26	1.32	0.00
38.01	3.26	1.32	0.00
40.01	3.26	1.32	0.00
42.01	3.26	1.32	0.00
44.01	3.26	1.32	0.00
46.01	3.26	1.32	0.00
48.01	3.26	1.32	0.00
50.01	3.26	1.32	0.00
52.01	3.26	1.32	0.00
54.01	3.26	1.32	0.00
56.01	3.26	1.32	0.00
58.01	3.26	1.32	0.00
60.01	3.26	1.32	0.00
62.01	3.26	1.32	0.00
64.01	3.26	1.32	0.00
66.01	3.26	1.32	0.00
68.01	3.26	1.32	0.00
70.01	3.26	1.32	0.00
72.01	3.26	1.32	0.00
74.01	3.26	1.32	0.00
76.01	3.26	1.32	0.00
78.01	3.26	1.32	0.00
80.01	3.26	1.32	0.00
82.01	3.26	1.32	0.00
84.01	3.26	1.32	0.00
86.01	3.26	1.32	0.00
88.01	3.26	1.32	0.00
90.01	3.26	1.32	0.00
92.01	3.26	1.32	0.00
94.01	3.26	1.32	0.00
96.01	3.26	1.32	0.00
98.01	3.26	1.32	0.00
100.01	3.26	1.32	0.00
102.01	3.26	1.32	0.00
104.01	3.26	1.32	0.00
106.01	3.26	1.32	0.00
108.01	3.26	1.32	0.00
110.01	3.26	1.32	0.00
112.01	3.26	1.32	0.00
114.01	3.26	1.32	0.00
116.01	3.26	1.32	0.00
118.01	3.26	1.32	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 1.25" for Type 2 - 5-Year event
Inflow = 102.97 cfs @ 12.15 hrs, Volume= 8.415 af
Primary = 102.97 cfs @ 12.15 hrs, Volume= 8.415 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	0.00	0.00	0.00
12.01	**63.77**	0.00	**63.77**
14.01	**7.47**	0.00	**7.47**
16.01	4.52	0.00	4.52
18.01	3.45	0.00	3.45
20.01	2.57	0.00	2.57
22.01	2.30	0.00	2.30
24.01	2.13	0.00	2.13
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=1.54"
Flow Length=475' Tc=17.9 min CN=75 Runoff=10.05 cfs 0.719 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=1.68"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=16.02 cfs 1.358 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=1.61"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=58.56 cfs 4.502 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=1.75"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=28.59 cfs 2.160 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=1.75"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=29.25 cfs 2.537 af

Link 1: OFFSITE Inflow=140.23 cfs 11.275 af
Primary=140.23 cfs 11.275 af

Total Runoff Area = 81.027 ac Runoff Volume = 11.275 af Average Runoff Depth = 1.67"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

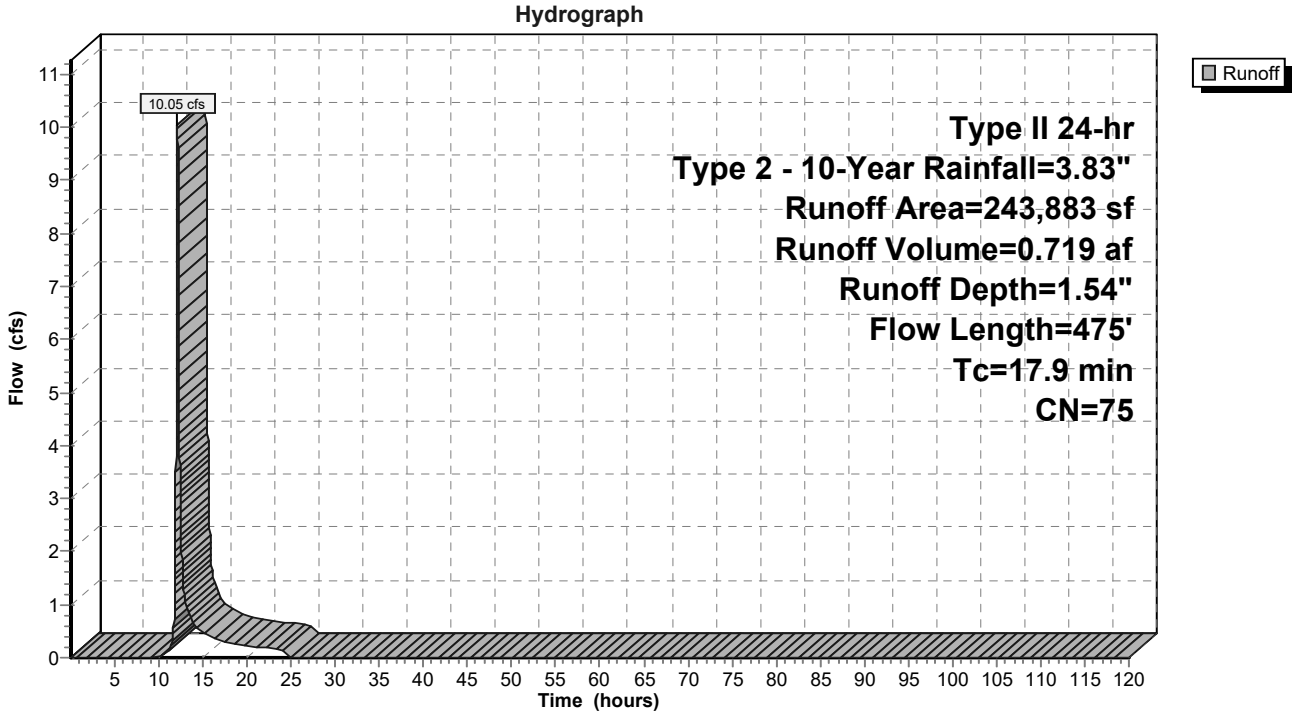
Runoff = 10.05 cfs @ 12.11 hrs, Volume= 0.719 af, Depth= 1.54"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.00	0.00
12.01	2.55	0.68	**7.36**
14.01	3.14	1.05	**0.61**
16.01	3.37	1.21	0.37
18.01	3.53	1.32	0.29
20.01	3.65	1.41	0.21
22.01	**3.74**	**1.48**	0.19
24.01	**3.83**	**1.54**	0.18
26.01	3.83	1.54	0.00
28.01	3.83	1.54	0.00
30.01	3.83	1.54	0.00
32.01	3.83	1.54	0.00
34.01	3.83	1.54	0.00
36.01	3.83	1.54	0.00
38.01	3.83	1.54	0.00
40.01	3.83	1.54	0.00
42.01	3.83	1.54	0.00
44.01	3.83	1.54	0.00
46.01	3.83	1.54	0.00
48.01	3.83	1.54	0.00
50.01	3.83	1.54	0.00
52.01	3.83	1.54	0.00
54.01	3.83	1.54	0.00
56.01	3.83	1.54	0.00
58.01	3.83	1.54	0.00
60.01	3.83	1.54	0.00
62.01	3.83	1.54	0.00
64.01	3.83	1.54	0.00
66.01	3.83	1.54	0.00
68.01	3.83	1.54	0.00
70.01	3.83	1.54	0.00
72.01	3.83	1.54	0.00
74.01	3.83	1.54	0.00
76.01	3.83	1.54	0.00
78.01	3.83	1.54	0.00
80.01	3.83	1.54	0.00
82.01	3.83	1.54	0.00
84.01	3.83	1.54	0.00
86.01	3.83	1.54	0.00
88.01	3.83	1.54	0.00
90.01	3.83	1.54	0.00
92.01	3.83	1.54	0.00
94.01	3.83	1.54	0.00
96.01	3.83	1.54	0.00
98.01	3.83	1.54	0.00
100.01	3.83	1.54	0.00
102.01	3.83	1.54	0.00
104.01	3.83	1.54	0.00
106.01	3.83	1.54	0.00
108.01	3.83	1.54	0.00
110.01	3.83	1.54	0.00
112.01	3.83	1.54	0.00
114.01	3.83	1.54	0.00
116.01	3.83	1.54	0.00
118.01	3.83	1.54	0.00

Summary for Subcatchment 1B: 1B

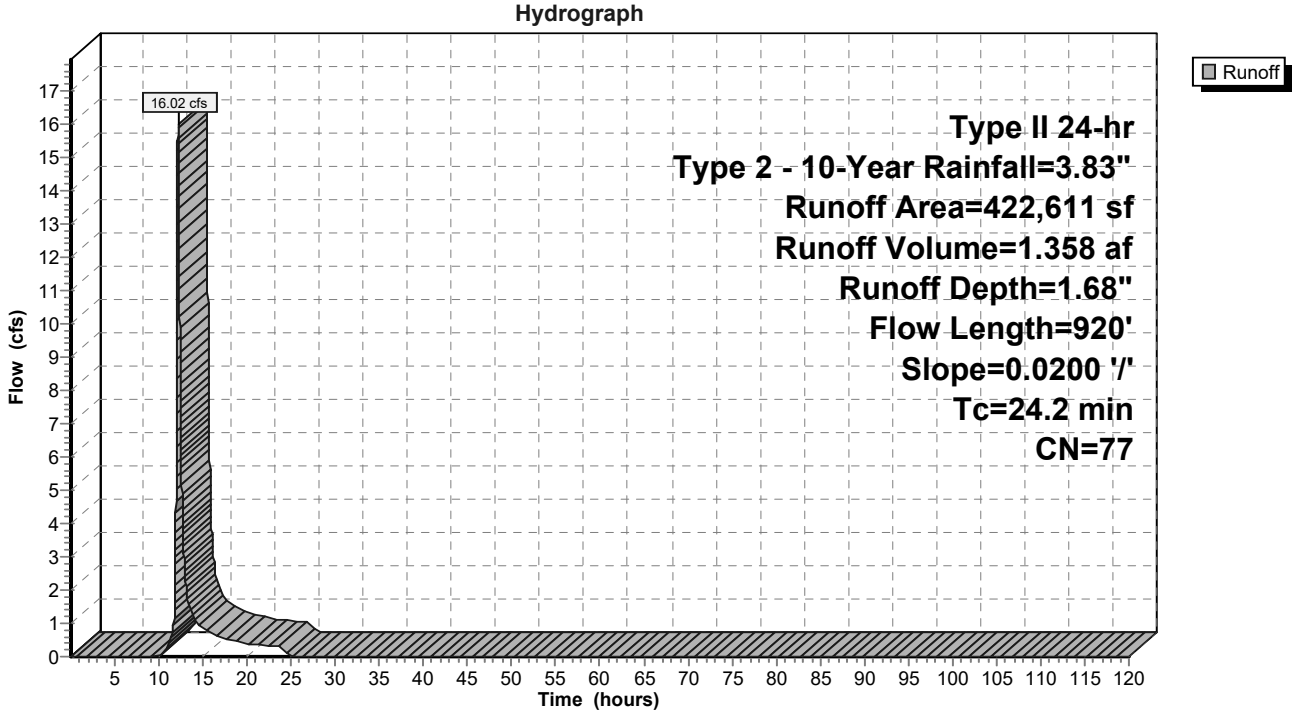
Runoff = 16.02 cfs @ 12.18 hrs, Volume= 1.358 af, Depth= 1.68"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.00	0.04
12.01	2.55	0.77	**8.94**
14.01	3.14	1.17	**1.17**
16.01	3.37	1.34	0.70
18.01	3.53	1.45	0.53
20.01	3.65	1.54	0.39
22.01	**3.74**	**1.61**	0.35
24.01	**3.83**	**1.68**	0.32
26.01	3.83	1.68	0.00
28.01	3.83	1.68	0.00
30.01	3.83	1.68	0.00
32.01	3.83	1.68	0.00
34.01	3.83	1.68	0.00
36.01	3.83	1.68	0.00
38.01	3.83	1.68	0.00
40.01	3.83	1.68	0.00
42.01	3.83	1.68	0.00
44.01	3.83	1.68	0.00
46.01	3.83	1.68	0.00
48.01	3.83	1.68	0.00
50.01	3.83	1.68	0.00
52.01	3.83	1.68	0.00
54.01	3.83	1.68	0.00
56.01	3.83	1.68	0.00
58.01	3.83	1.68	0.00
60.01	3.83	1.68	0.00
62.01	3.83	1.68	0.00
64.01	3.83	1.68	0.00
66.01	3.83	1.68	0.00
68.01	3.83	1.68	0.00
70.01	3.83	1.68	0.00
72.01	3.83	1.68	0.00
74.01	3.83	1.68	0.00
76.01	3.83	1.68	0.00
78.01	3.83	1.68	0.00
80.01	3.83	1.68	0.00
82.01	3.83	1.68	0.00
84.01	3.83	1.68	0.00
86.01	3.83	1.68	0.00
88.01	3.83	1.68	0.00
90.01	3.83	1.68	0.00
92.01	3.83	1.68	0.00
94.01	3.83	1.68	0.00
96.01	3.83	1.68	0.00
98.01	3.83	1.68	0.00
100.01	3.83	1.68	0.00
102.01	3.83	1.68	0.00
104.01	3.83	1.68	0.00
106.01	3.83	1.68	0.00
108.01	3.83	1.68	0.00
110.01	3.83	1.68	0.00
112.01	3.83	1.68	0.00
114.01	3.83	1.68	0.00
116.01	3.83	1.68	0.00
118.01	3.83	1.68	0.00

Summary for Subcatchment 1C: 1C

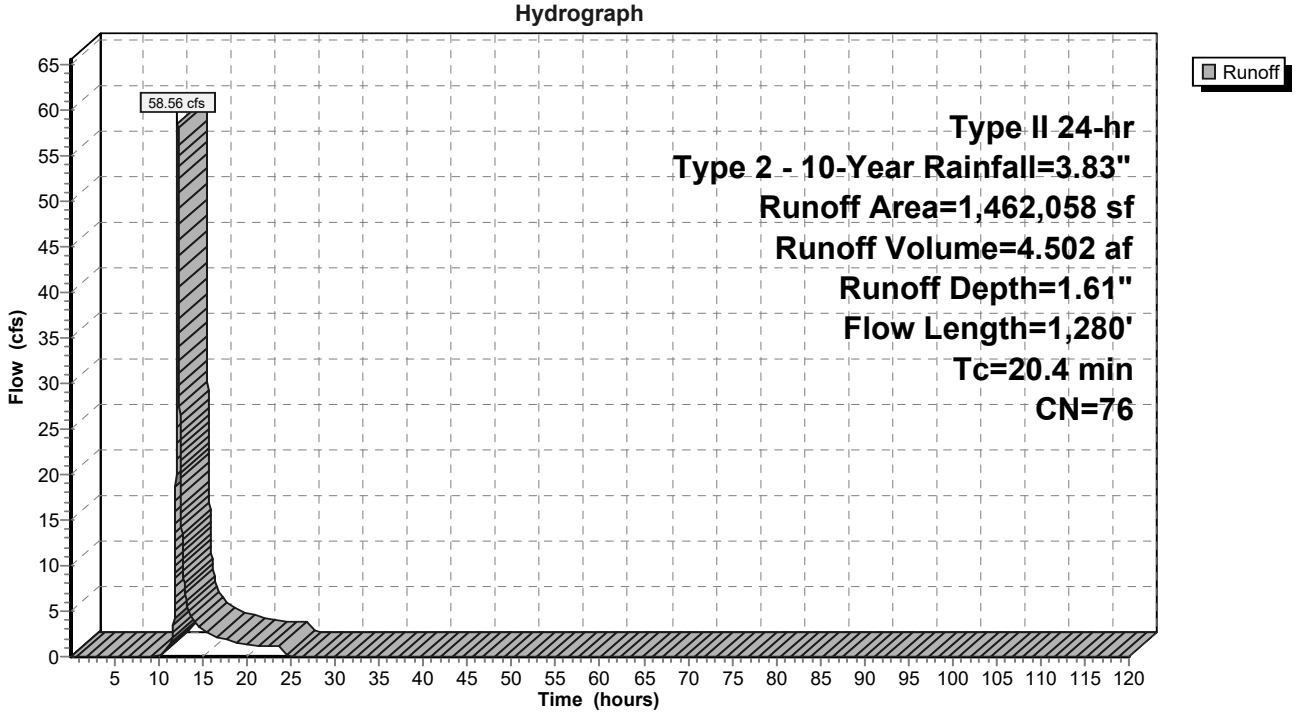
Runoff = 58.56 cfs @ 12.13 hrs, Volume= 4.502 af, Depth= 1.61"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.00	0.06
12.01	2.55	0.72	**38.59**
14.01	3.14	1.11	**3.83**
16.01	3.37	1.27	2.31
18.01	3.53	1.39	1.77
20.01	3.65	1.47	1.32
22.01	**3.74**	**1.54**	1.17
24.01	**3.83**	**1.61**	1.09
26.01	3.83	1.61	0.00
28.01	3.83	1.61	0.00
30.01	3.83	1.61	0.00
32.01	3.83	1.61	0.00
34.01	3.83	1.61	0.00
36.01	3.83	1.61	0.00
38.01	3.83	1.61	0.00
40.01	3.83	1.61	0.00
42.01	3.83	1.61	0.00
44.01	3.83	1.61	0.00
46.01	3.83	1.61	0.00
48.01	3.83	1.61	0.00
50.01	3.83	1.61	0.00
52.01	3.83	1.61	0.00
54.01	3.83	1.61	0.00
56.01	3.83	1.61	0.00
58.01	3.83	1.61	0.00
60.01	3.83	1.61	0.00
62.01	3.83	1.61	0.00
64.01	3.83	1.61	0.00
66.01	3.83	1.61	0.00
68.01	3.83	1.61	0.00
70.01	3.83	1.61	0.00
72.01	3.83	1.61	0.00
74.01	3.83	1.61	0.00
76.01	3.83	1.61	0.00
78.01	3.83	1.61	0.00
80.01	3.83	1.61	0.00
82.01	3.83	1.61	0.00
84.01	3.83	1.61	0.00
86.01	3.83	1.61	0.00
88.01	3.83	1.61	0.00
90.01	3.83	1.61	0.00
92.01	3.83	1.61	0.00
94.01	3.83	1.61	0.00
96.01	3.83	1.61	0.00
98.01	3.83	1.61	0.00
100.01	3.83	1.61	0.00
102.01	3.83	1.61	0.00
104.01	3.83	1.61	0.00
106.01	3.83	1.61	0.00
108.01	3.83	1.61	0.00
110.01	3.83	1.61	0.00
112.01	3.83	1.61	0.00
114.01	3.83	1.61	0.00
116.01	3.83	1.61	0.00
118.01	3.83	1.61	0.00

Summary for Subcatchment 1D: 1D

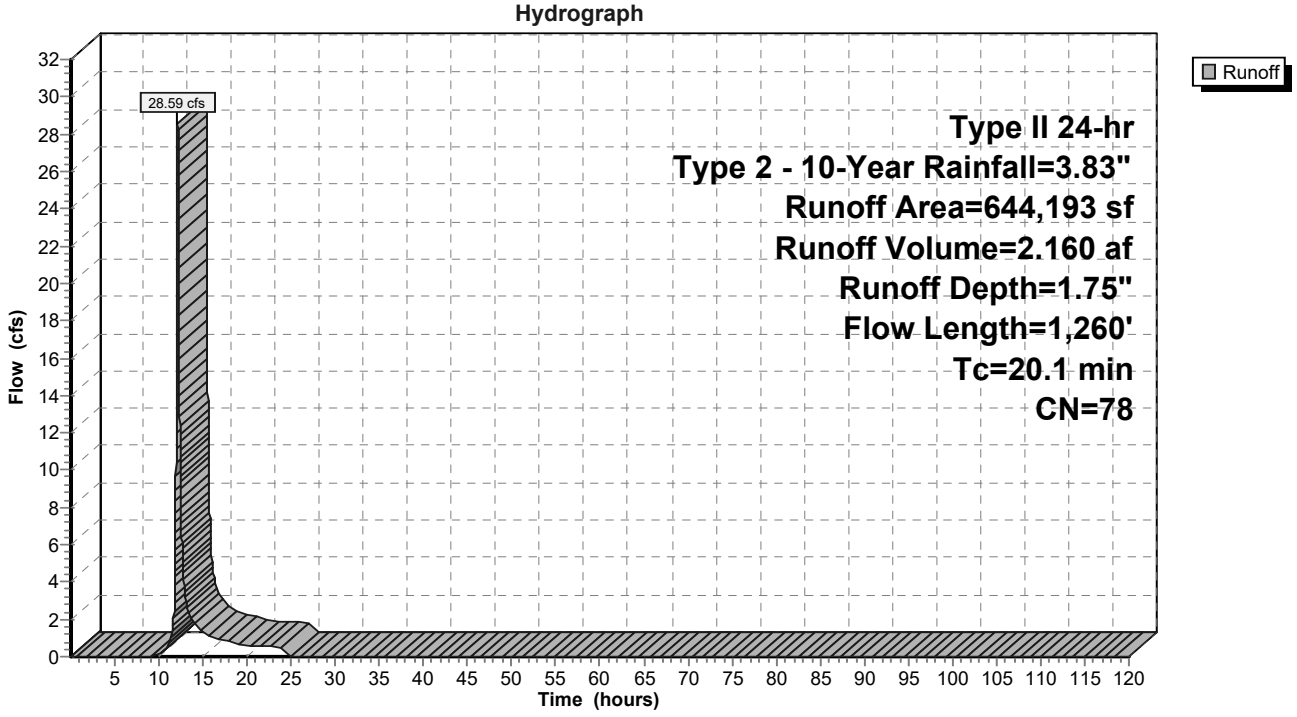
Runoff = 28.59 cfs @ 12.13 hrs, Volume= 2.160 af, Depth= 1.75"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.01	0.12
12.01	2.55	0.82	**19.48**
14.01	3.14	1.23	**1.78**
16.01	3.37	1.40	1.07
18.01	3.53	1.52	0.81
20.01	3.65	1.61	0.60
22.01	**3.74**	**1.68**	0.54
24.01	**3.83**	**1.75**	0.50
26.01	3.83	1.75	0.00
28.01	3.83	1.75	0.00
30.01	3.83	1.75	0.00
32.01	3.83	1.75	0.00
34.01	3.83	1.75	0.00
36.01	3.83	1.75	0.00
38.01	3.83	1.75	0.00
40.01	3.83	1.75	0.00
42.01	3.83	1.75	0.00
44.01	3.83	1.75	0.00
46.01	3.83	1.75	0.00
48.01	3.83	1.75	0.00
50.01	3.83	1.75	0.00
52.01	3.83	1.75	0.00
54.01	3.83	1.75	0.00
56.01	3.83	1.75	0.00
58.01	3.83	1.75	0.00
60.01	3.83	1.75	0.00
62.01	3.83	1.75	0.00
64.01	3.83	1.75	0.00
66.01	3.83	1.75	0.00
68.01	3.83	1.75	0.00
70.01	3.83	1.75	0.00
72.01	3.83	1.75	0.00
74.01	3.83	1.75	0.00
76.01	3.83	1.75	0.00
78.01	3.83	1.75	0.00
80.01	3.83	1.75	0.00
82.01	3.83	1.75	0.00
84.01	3.83	1.75	0.00
86.01	3.83	1.75	0.00
88.01	3.83	1.75	0.00
90.01	3.83	1.75	0.00
92.01	3.83	1.75	0.00
94.01	3.83	1.75	0.00
96.01	3.83	1.75	0.00
98.01	3.83	1.75	0.00
100.01	3.83	1.75	0.00
102.01	3.83	1.75	0.00
104.01	3.83	1.75	0.00
106.01	3.83	1.75	0.00
108.01	3.83	1.75	0.00
110.01	3.83	1.75	0.00
112.01	3.83	1.75	0.00
114.01	3.83	1.75	0.00
116.01	3.83	1.75	0.00
118.01	3.83	1.75	0.00

Summary for Subcatchment 1E: 1E

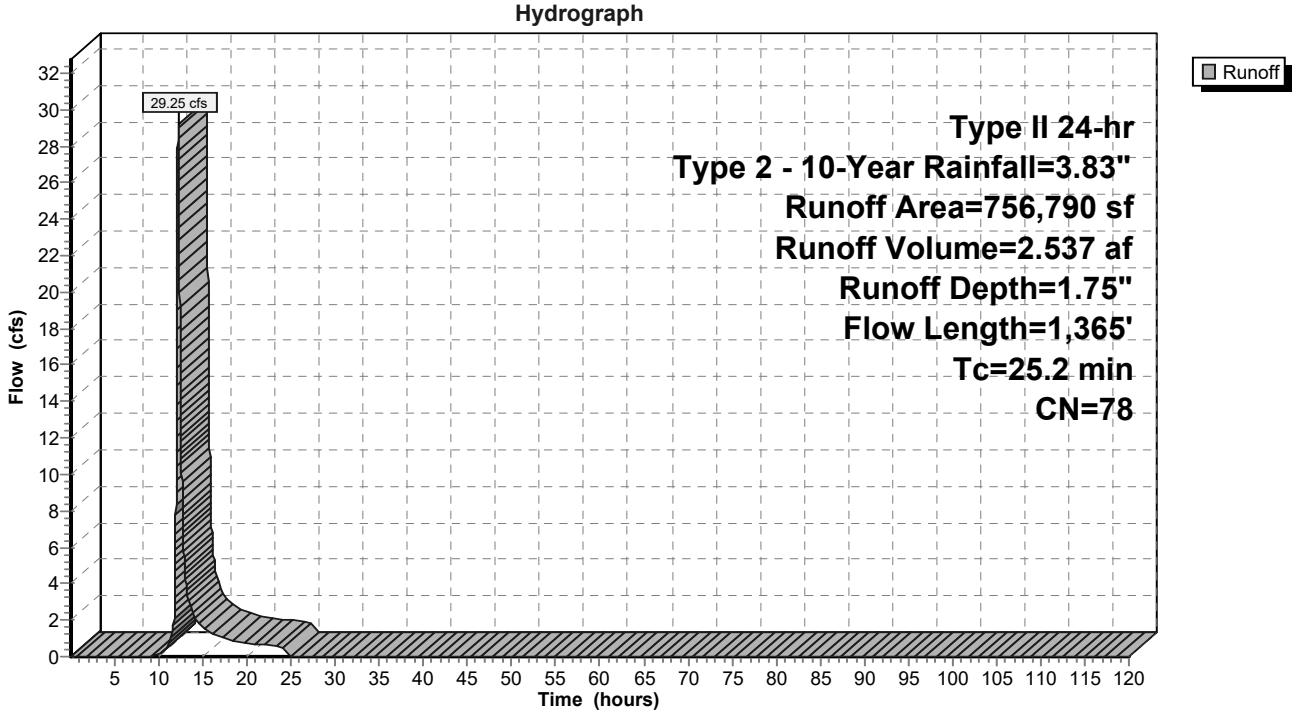
Runoff = 29.25 cfs @ 12.18 hrs, Volume= 2.537 af, Depth= 1.75"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

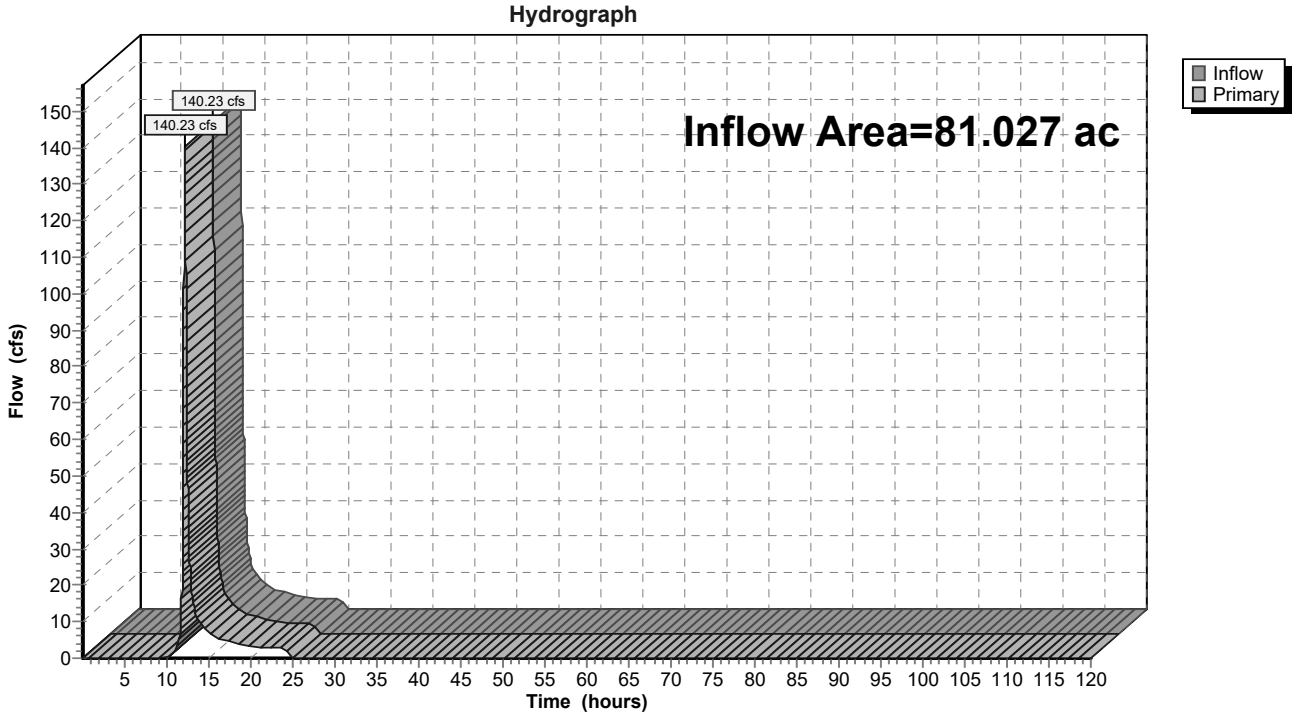
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.01	0.12
12.01	2.55	0.82	**15.83**
14.01	3.14	1.23	**2.17**
16.01	3.37	1.40	1.28
18.01	3.53	1.52	0.97
20.01	3.65	1.61	0.72
22.01	**3.74**	**1.68**	0.64
24.01	**3.83**	**1.75**	0.59
26.01	3.83	1.75	0.00
28.01	3.83	1.75	0.00
30.01	3.83	1.75	0.00
32.01	3.83	1.75	0.00
34.01	3.83	1.75	0.00
36.01	3.83	1.75	0.00
38.01	3.83	1.75	0.00
40.01	3.83	1.75	0.00
42.01	3.83	1.75	0.00
44.01	3.83	1.75	0.00
46.01	3.83	1.75	0.00
48.01	3.83	1.75	0.00
50.01	3.83	1.75	0.00
52.01	3.83	1.75	0.00
54.01	3.83	1.75	0.00
56.01	3.83	1.75	0.00
58.01	3.83	1.75	0.00
60.01	3.83	1.75	0.00
62.01	3.83	1.75	0.00
64.01	3.83	1.75	0.00
66.01	3.83	1.75	0.00
68.01	3.83	1.75	0.00
70.01	3.83	1.75	0.00
72.01	3.83	1.75	0.00
74.01	3.83	1.75	0.00
76.01	3.83	1.75	0.00
78.01	3.83	1.75	0.00
80.01	3.83	1.75	0.00
82.01	3.83	1.75	0.00
84.01	3.83	1.75	0.00
86.01	3.83	1.75	0.00
88.01	3.83	1.75	0.00
90.01	3.83	1.75	0.00
92.01	3.83	1.75	0.00
94.01	3.83	1.75	0.00
96.01	3.83	1.75	0.00
98.01	3.83	1.75	0.00
100.01	3.83	1.75	0.00
102.01	3.83	1.75	0.00
104.01	3.83	1.75	0.00
106.01	3.83	1.75	0.00
108.01	3.83	1.75	0.00
110.01	3.83	1.75	0.00
112.01	3.83	1.75	0.00
114.01	3.83	1.75	0.00
116.01	3.83	1.75	0.00
118.01	3.83	1.75	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 1.67" for Type 2 - 10-Year event
Inflow = 140.23 cfs @ 12.15 hrs, Volume= 11.275 af
Primary = 140.23 cfs @ 12.15 hrs, Volume= 11.275 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	0.34	0.00	0.34
12.01	**90.20**	0.00	**90.20**
14.01	**9.56**	0.00	**9.56**
16.01	5.74	0.00	5.74
18.01	4.36	0.00	4.36
20.01	3.25	0.00	3.25
22.01	2.89	0.00	2.89
24.01	2.68	0.00	2.68
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=2.22"
Flow Length=475' Tc=17.9 min CN=75 Runoff=14.64 cfs 1.034 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=2.38"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=22.97 cfs 1.926 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=2.30"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=84.68 cfs 6.429 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=2.47"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=40.53 cfs 3.041 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=2.47"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=41.60 cfs 3.572 af

Link 1: OFFSITE Inflow=201.16 cfs 16.002 af
Primary=201.16 cfs 16.002 af

Total Runoff Area = 81.027 ac Runoff Volume = 16.002 af Average Runoff Depth = 2.37"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

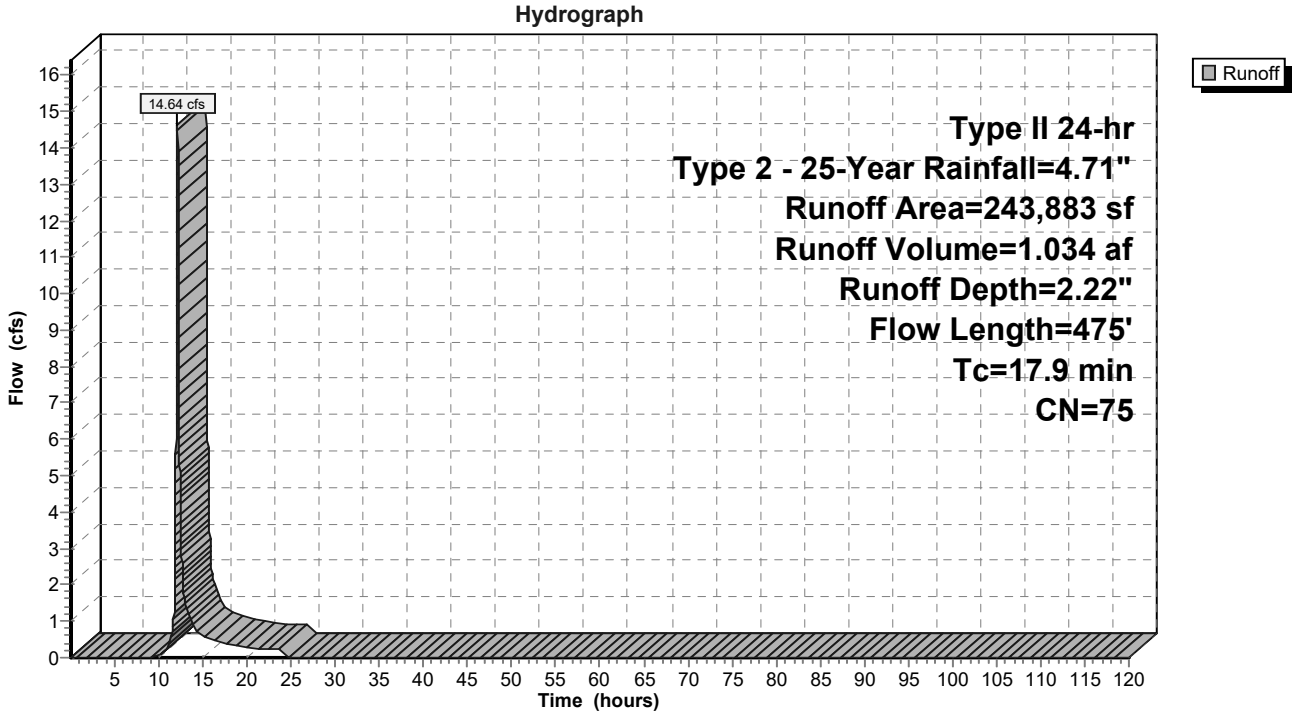
Runoff = 14.64 cfs @ 12.11 hrs, Volume= 1.034 af, Depth= 2.22"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.00	0.00
10.01	0.85	0.01	0.08
12.01	3.13	1.05	**11.07**
14.01	3.86	1.57	**0.83**
16.01	4.15	1.78	0.50
18.01	4.34	1.92	0.38
20.01	4.48	2.04	0.28
22.01	**4.60**	**2.13**	0.25
24.01	**4.71**	**2.22**	0.24
26.01	4.71	2.22	0.00
28.01	4.71	2.22	0.00
30.01	4.71	2.22	0.00
32.01	4.71	2.22	0.00
34.01	4.71	2.22	0.00
36.01	4.71	2.22	0.00
38.01	4.71	2.22	0.00
40.01	4.71	2.22	0.00
42.01	4.71	2.22	0.00
44.01	4.71	2.22	0.00
46.01	4.71	2.22	0.00
48.01	4.71	2.22	0.00
50.01	4.71	2.22	0.00
52.01	4.71	2.22	0.00
54.01	4.71	2.22	0.00
56.01	4.71	2.22	0.00
58.01	4.71	2.22	0.00
60.01	4.71	2.22	0.00
62.01	4.71	2.22	0.00
64.01	4.71	2.22	0.00
66.01	4.71	2.22	0.00
68.01	4.71	2.22	0.00
70.01	4.71	2.22	0.00
72.01	4.71	2.22	0.00
74.01	4.71	2.22	0.00
76.01	4.71	2.22	0.00
78.01	4.71	2.22	0.00
80.01	4.71	2.22	0.00
82.01	4.71	2.22	0.00
84.01	4.71	2.22	0.00
86.01	4.71	2.22	0.00
88.01	4.71	2.22	0.00
90.01	4.71	2.22	0.00
92.01	4.71	2.22	0.00
94.01	4.71	2.22	0.00
96.01	4.71	2.22	0.00
98.01	4.71	2.22	0.00
100.01	4.71	2.22	0.00
102.01	4.71	2.22	0.00
104.01	4.71	2.22	0.00
106.01	4.71	2.22	0.00
108.01	4.71	2.22	0.00
110.01	4.71	2.22	0.00
112.01	4.71	2.22	0.00
114.01	4.71	2.22	0.00
116.01	4.71	2.22	0.00
118.01	4.71	2.22	0.00

Summary for Subcatchment 1B: 1B

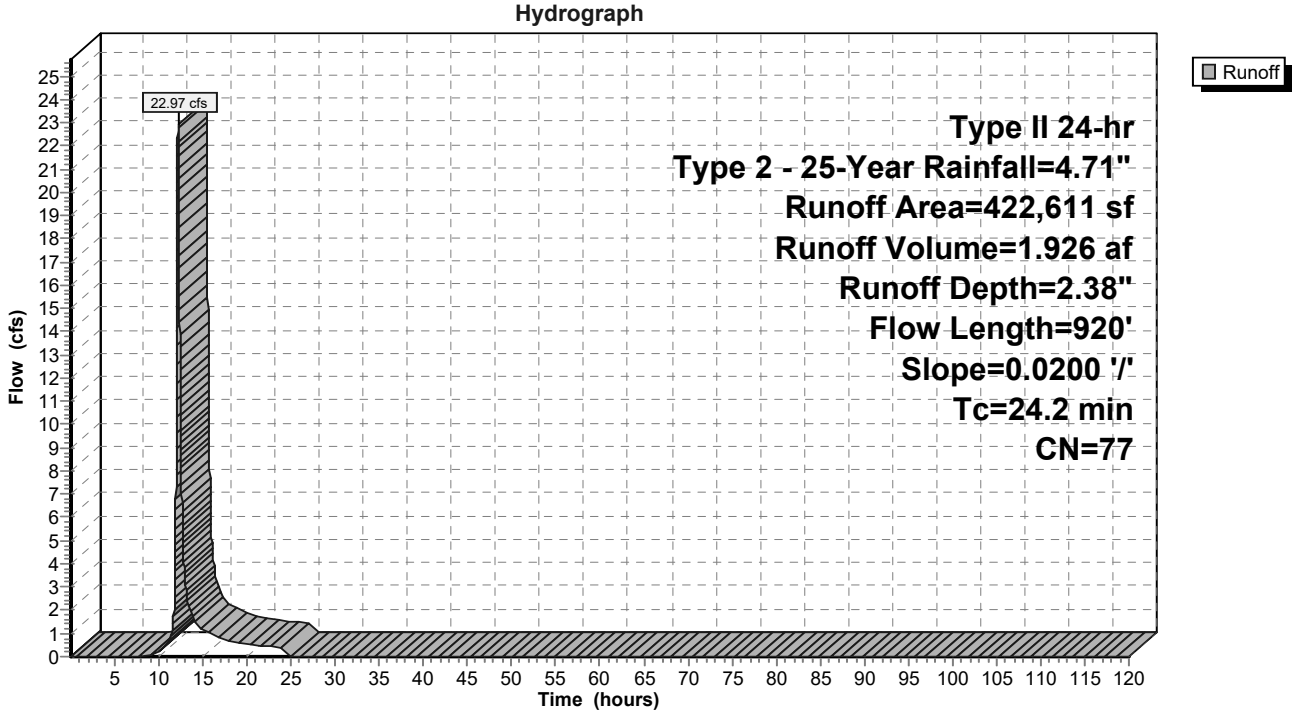
Runoff = 22.97 cfs @ 12.18 hrs, Volume= 1.926 af, Depth= 2.38"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.00	0.00
10.01	0.85	0.02	0.19
12.01	3.13	1.16	**13.39**
14.01	3.86	1.71	**1.57**
16.01	4.15	1.93	0.93
18.01	4.34	2.08	0.70
20.01	4.48	2.20	0.52
22.01	**4.60**	**2.29**	0.46
24.01	**4.71**	**2.38**	0.42
26.01	4.71	2.38	0.00
28.01	4.71	2.38	0.00
30.01	4.71	2.38	0.00
32.01	4.71	2.38	0.00
34.01	4.71	2.38	0.00
36.01	4.71	2.38	0.00
38.01	4.71	2.38	0.00
40.01	4.71	2.38	0.00
42.01	4.71	2.38	0.00
44.01	4.71	2.38	0.00
46.01	4.71	2.38	0.00
48.01	4.71	2.38	0.00
50.01	4.71	2.38	0.00
52.01	4.71	2.38	0.00
54.01	4.71	2.38	0.00
56.01	4.71	2.38	0.00
58.01	4.71	2.38	0.00
60.01	4.71	2.38	0.00
62.01	4.71	2.38	0.00
64.01	4.71	2.38	0.00
66.01	4.71	2.38	0.00
68.01	4.71	2.38	0.00
70.01	4.71	2.38	0.00
72.01	4.71	2.38	0.00
74.01	4.71	2.38	0.00
76.01	4.71	2.38	0.00
78.01	4.71	2.38	0.00
80.01	4.71	2.38	0.00
82.01	4.71	2.38	0.00
84.01	4.71	2.38	0.00
86.01	4.71	2.38	0.00
88.01	4.71	2.38	0.00
90.01	4.71	2.38	0.00
92.01	4.71	2.38	0.00
94.01	4.71	2.38	0.00
96.01	4.71	2.38	0.00
98.01	4.71	2.38	0.00
100.01	4.71	2.38	0.00
102.01	4.71	2.38	0.00
104.01	4.71	2.38	0.00
106.01	4.71	2.38	0.00
108.01	4.71	2.38	0.00
110.01	4.71	2.38	0.00
112.01	4.71	2.38	0.00
114.01	4.71	2.38	0.00
116.01	4.71	2.38	0.00
118.01	4.71	2.38	0.00

Summary for Subcatchment 1C: 1C

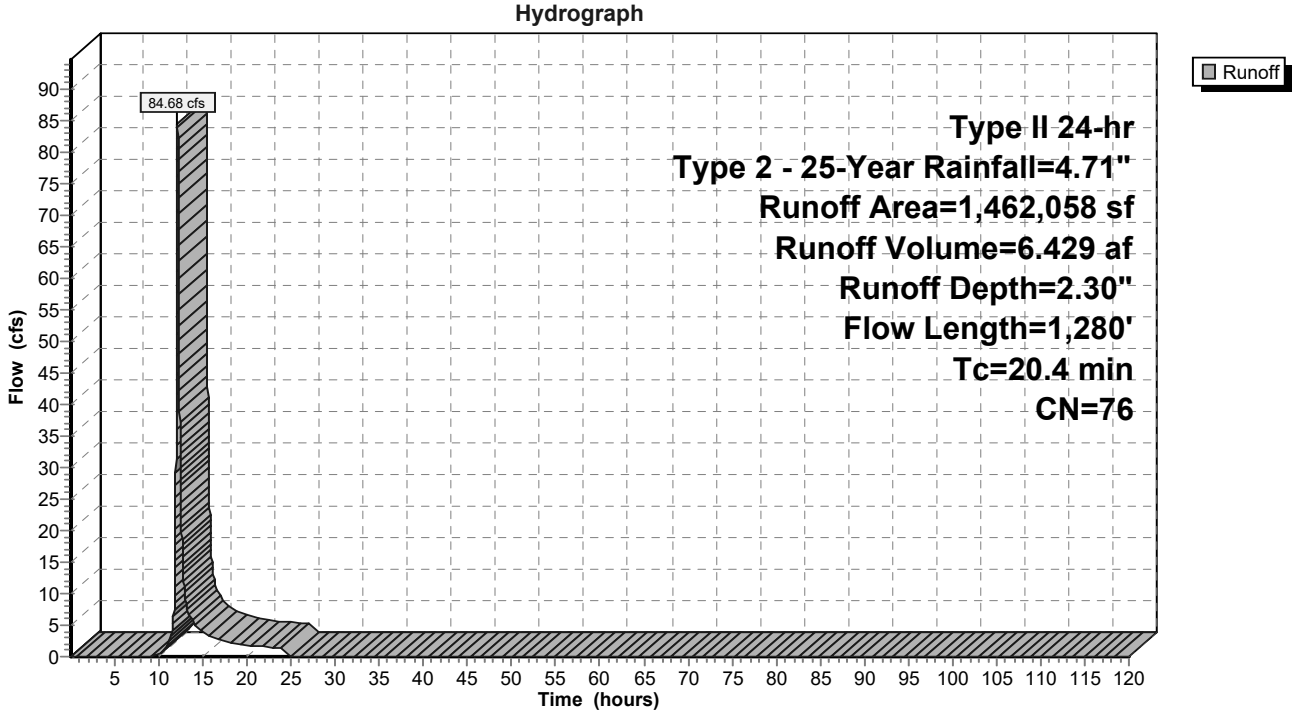
Runoff = 84.68 cfs @ 12.13 hrs, Volume= 6.429 af, Depth= 2.30"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.00	0.00
10.01	0.85	0.01	0.56
12.01	3.13	1.11	**57.82**
14.01	3.86	1.64	**5.17**
16.01	4.15	1.85	3.10
18.01	4.34	2.00	2.35
20.01	4.48	2.12	1.75
22.01	**4.60**	**2.21**	1.56
24.01	**4.71**	**2.30**	1.44
26.01	4.71	2.30	0.00
28.01	4.71	2.30	0.00
30.01	4.71	2.30	0.00
32.01	4.71	2.30	0.00
34.01	4.71	2.30	0.00
36.01	4.71	2.30	0.00
38.01	4.71	2.30	0.00
40.01	4.71	2.30	0.00
42.01	4.71	2.30	0.00
44.01	4.71	2.30	0.00
46.01	4.71	2.30	0.00
48.01	4.71	2.30	0.00
50.01	4.71	2.30	0.00
52.01	4.71	2.30	0.00
54.01	4.71	2.30	0.00
56.01	4.71	2.30	0.00
58.01	4.71	2.30	0.00
60.01	4.71	2.30	0.00
62.01	4.71	2.30	0.00
64.01	4.71	2.30	0.00
66.01	4.71	2.30	0.00
68.01	4.71	2.30	0.00
70.01	4.71	2.30	0.00
72.01	4.71	2.30	0.00
74.01	4.71	2.30	0.00
76.01	4.71	2.30	0.00
78.01	4.71	2.30	0.00
80.01	4.71	2.30	0.00
82.01	4.71	2.30	0.00
84.01	4.71	2.30	0.00
86.01	4.71	2.30	0.00
88.01	4.71	2.30	0.00
90.01	4.71	2.30	0.00
92.01	4.71	2.30	0.00
94.01	4.71	2.30	0.00
96.01	4.71	2.30	0.00
98.01	4.71	2.30	0.00
100.01	4.71	2.30	0.00
102.01	4.71	2.30	0.00
104.01	4.71	2.30	0.00
106.01	4.71	2.30	0.00
108.01	4.71	2.30	0.00
110.01	4.71	2.30	0.00
112.01	4.71	2.30	0.00
114.01	4.71	2.30	0.00
116.01	4.71	2.30	0.00
118.01	4.71	2.30	0.00

Summary for Subcatchment 1D: 1D

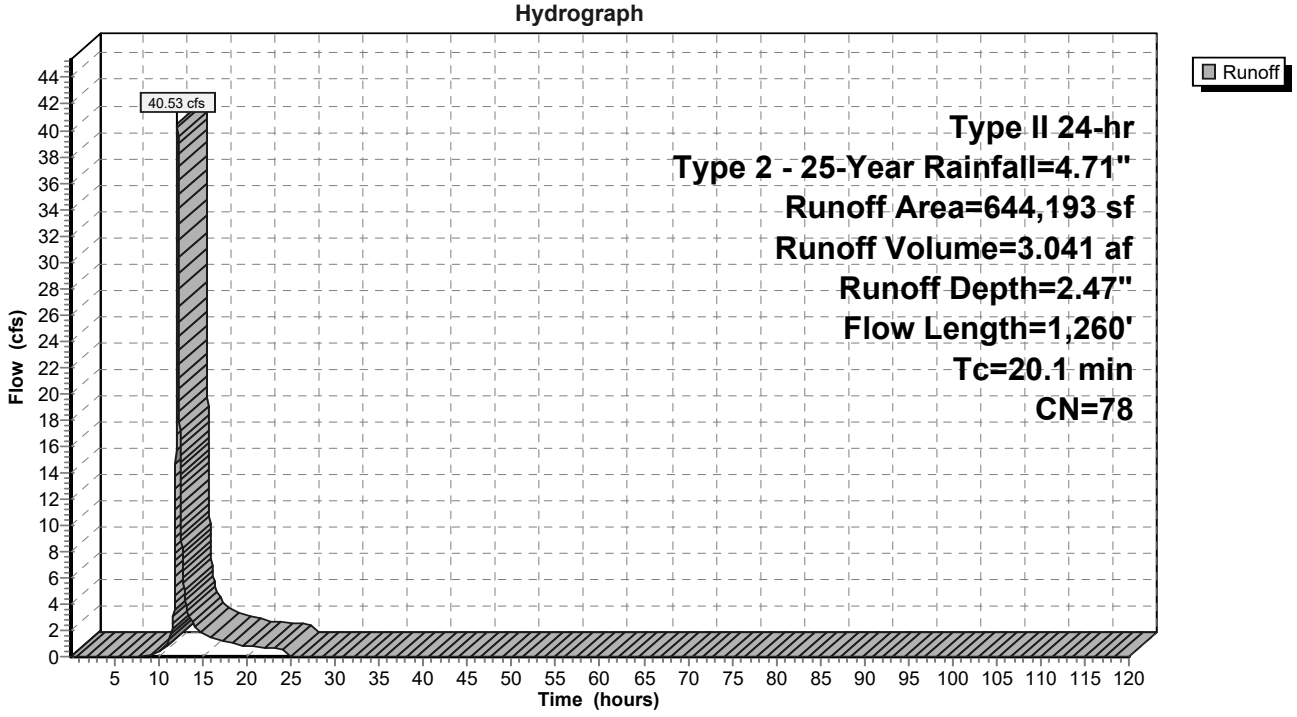
Runoff = 40.53 cfs @ 12.13 hrs, Volume= 3.041 af, Depth= 2.47"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.00	0.00
10.01	0.85	0.03	0.37
12.01	3.13	1.22	**28.45**
14.01	3.86	1.78	**2.37**
16.01	4.15	2.00	1.42
18.01	4.34	2.16	1.07
20.01	4.48	2.28	0.80
22.01	**4.60**	**2.38**	0.71
24.01	**4.71**	**2.47**	0.65
26.01	4.71	2.47	0.00
28.01	4.71	2.47	0.00
30.01	4.71	2.47	0.00
32.01	4.71	2.47	0.00
34.01	4.71	2.47	0.00
36.01	4.71	2.47	0.00
38.01	4.71	2.47	0.00
40.01	4.71	2.47	0.00
42.01	4.71	2.47	0.00
44.01	4.71	2.47	0.00
46.01	4.71	2.47	0.00
48.01	4.71	2.47	0.00
50.01	4.71	2.47	0.00
52.01	4.71	2.47	0.00
54.01	4.71	2.47	0.00
56.01	4.71	2.47	0.00
58.01	4.71	2.47	0.00
60.01	4.71	2.47	0.00
62.01	4.71	2.47	0.00
64.01	4.71	2.47	0.00
66.01	4.71	2.47	0.00
68.01	4.71	2.47	0.00
70.01	4.71	2.47	0.00
72.01	4.71	2.47	0.00
74.01	4.71	2.47	0.00
76.01	4.71	2.47	0.00
78.01	4.71	2.47	0.00
80.01	4.71	2.47	0.00
82.01	4.71	2.47	0.00
84.01	4.71	2.47	0.00
86.01	4.71	2.47	0.00
88.01	4.71	2.47	0.00
90.01	4.71	2.47	0.00
92.01	4.71	2.47	0.00
94.01	4.71	2.47	0.00
96.01	4.71	2.47	0.00
98.01	4.71	2.47	0.00
100.01	4.71	2.47	0.00
102.01	4.71	2.47	0.00
104.01	4.71	2.47	0.00
106.01	4.71	2.47	0.00
108.01	4.71	2.47	0.00
110.01	4.71	2.47	0.00
112.01	4.71	2.47	0.00
114.01	4.71	2.47	0.00
116.01	4.71	2.47	0.00
118.01	4.71	2.47	0.00

Summary for Subcatchment 1E: 1E

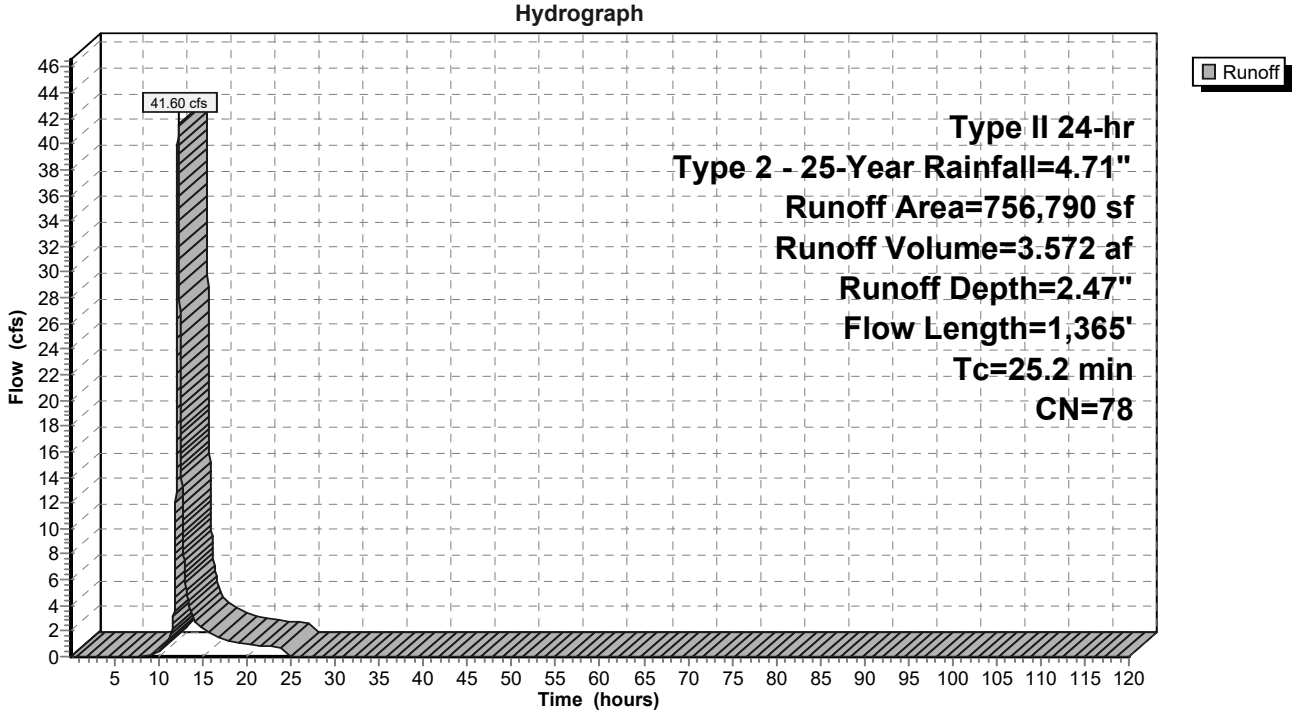
Runoff = 41.60 cfs @ 12.18 hrs, Volume= 3.572 af, Depth= 2.47"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

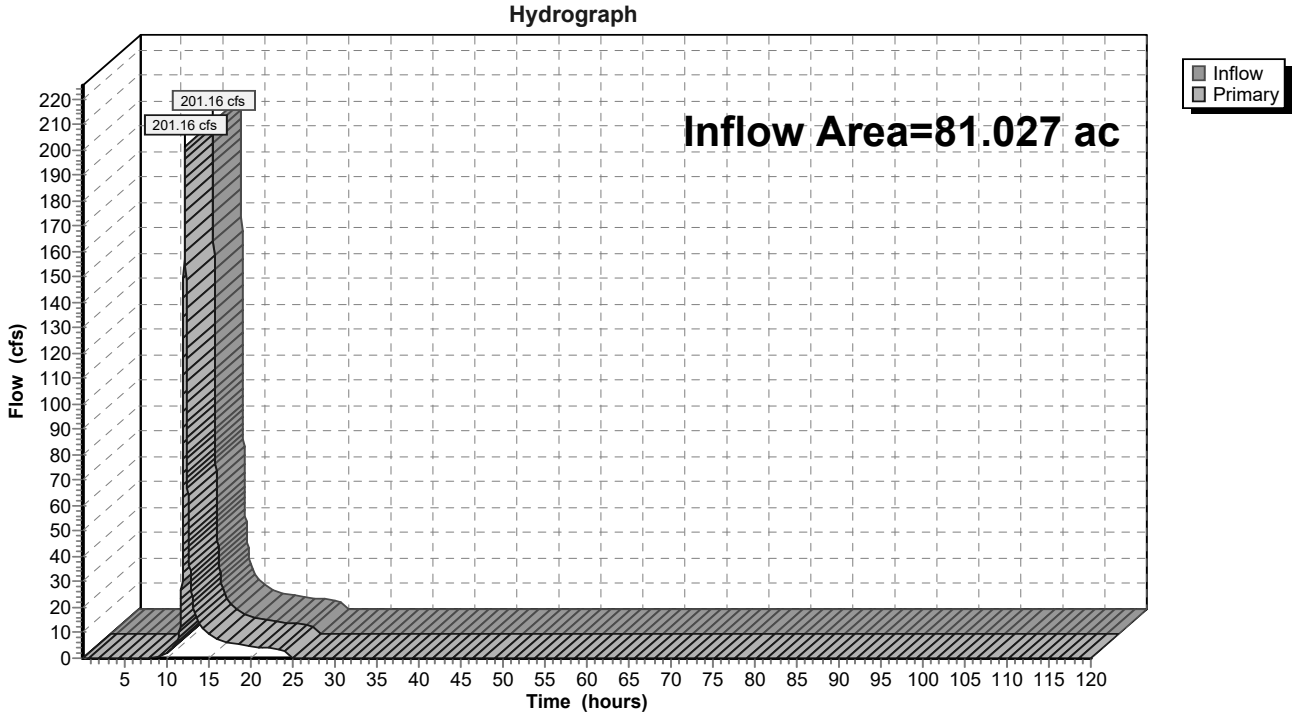
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.00	0.00
10.01	0.85	0.03	0.40
12.01	3.13	1.22	**23.47**
14.01	3.86	1.78	**2.90**
16.01	4.15	2.00	1.70
18.01	4.34	2.16	1.28
20.01	4.48	2.28	0.95
22.01	**4.60**	**2.38**	0.83
24.01	**4.71**	**2.47**	0.77
26.01	4.71	2.47	0.00
28.01	4.71	2.47	0.00
30.01	4.71	2.47	0.00
32.01	4.71	2.47	0.00
34.01	4.71	2.47	0.00
36.01	4.71	2.47	0.00
38.01	4.71	2.47	0.00
40.01	4.71	2.47	0.00
42.01	4.71	2.47	0.00
44.01	4.71	2.47	0.00
46.01	4.71	2.47	0.00
48.01	4.71	2.47	0.00
50.01	4.71	2.47	0.00
52.01	4.71	2.47	0.00
54.01	4.71	2.47	0.00
56.01	4.71	2.47	0.00
58.01	4.71	2.47	0.00
60.01	4.71	2.47	0.00
62.01	4.71	2.47	0.00
64.01	4.71	2.47	0.00
66.01	4.71	2.47	0.00
68.01	4.71	2.47	0.00
70.01	4.71	2.47	0.00
72.01	4.71	2.47	0.00
74.01	4.71	2.47	0.00
76.01	4.71	2.47	0.00
78.01	4.71	2.47	0.00
80.01	4.71	2.47	0.00
82.01	4.71	2.47	0.00
84.01	4.71	2.47	0.00
86.01	4.71	2.47	0.00
88.01	4.71	2.47	0.00
90.01	4.71	2.47	0.00
92.01	4.71	2.47	0.00
94.01	4.71	2.47	0.00
96.01	4.71	2.47	0.00
98.01	4.71	2.47	0.00
100.01	4.71	2.47	0.00
102.01	4.71	2.47	0.00
104.01	4.71	2.47	0.00
106.01	4.71	2.47	0.00
108.01	4.71	2.47	0.00
110.01	4.71	2.47	0.00
112.01	4.71	2.47	0.00
114.01	4.71	2.47	0.00
116.01	4.71	2.47	0.00
118.01	4.71	2.47	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 2.37" for Type 2 - 25-Year event
Inflow = 201.16 cfs @ 12.15 hrs, Volume= 16.002 af
Primary = 201.16 cfs @ 12.15 hrs, Volume= 16.002 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	1.59	0.00	1.59
12.01	**134.20**	0.00	**134.20**
14.01	**12.84**	0.00	**12.84**
16.01	7.65	0.00	7.65
18.01	5.78	0.00	5.78
20.01	4.29	0.00	4.29
22.01	3.81	0.00	3.81
24.01	3.52	0.00	3.52
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=2.85"
Flow Length=475' Tc=17.9 min CN=75 Runoff=18.91 cfs 1.331 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=3.04"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=29.38 cfs 2.456 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=2.94"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=108.87 cfs 8.236 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=3.13"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=51.49 cfs 3.860 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=3.13"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=52.95 cfs 4.535 af

Link 1: OFFSITE Inflow=257.33 cfs 20.418 af
Primary=257.33 cfs 20.418 af

Total Runoff Area = 81.027 ac Runoff Volume = 20.418 af Average Runoff Depth = 3.02"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

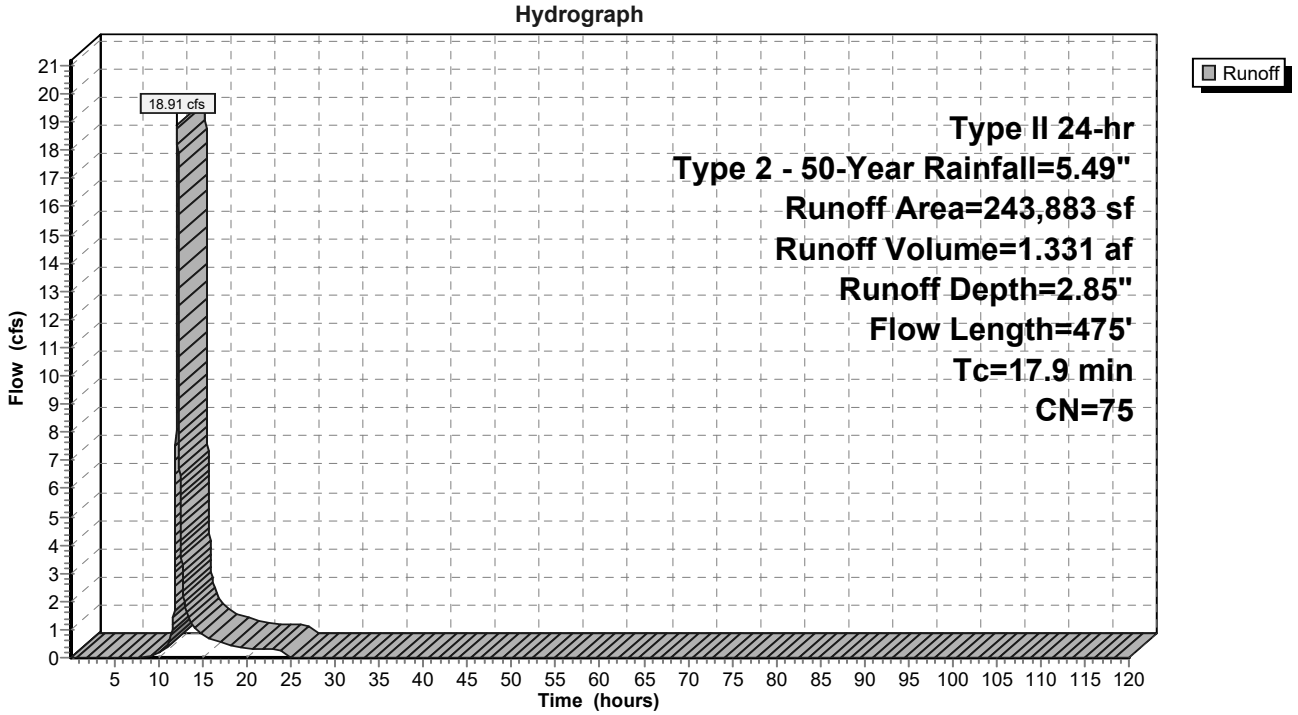
Runoff = 18.91 cfs @ 12.11 hrs, Volume= 1.331 af, Depth= 2.85"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.00	0.00
10.01	1.00	0.03	0.16
12.01	3.65	1.41	**14.55**
14.01	4.50	2.05	**1.02**
16.01	4.83	2.31	0.62
18.01	5.06	2.50	0.47
20.01	5.23	2.63	0.35
22.01	**5.36**	**2.75**	0.31
24.01	**5.49**	**2.85**	0.29
26.01	5.49	2.85	0.00
28.01	5.49	2.85	0.00
30.01	5.49	2.85	0.00
32.01	5.49	2.85	0.00
34.01	5.49	2.85	0.00
36.01	5.49	2.85	0.00
38.01	5.49	2.85	0.00
40.01	5.49	2.85	0.00
42.01	5.49	2.85	0.00
44.01	5.49	2.85	0.00
46.01	5.49	2.85	0.00
48.01	5.49	2.85	0.00
50.01	5.49	2.85	0.00
52.01	5.49	2.85	0.00
54.01	5.49	2.85	0.00
56.01	5.49	2.85	0.00
58.01	5.49	2.85	0.00
60.01	5.49	2.85	0.00
62.01	5.49	2.85	0.00
64.01	5.49	2.85	0.00
66.01	5.49	2.85	0.00
68.01	5.49	2.85	0.00
70.01	5.49	2.85	0.00
72.01	5.49	2.85	0.00
74.01	5.49	2.85	0.00
76.01	5.49	2.85	0.00
78.01	5.49	2.85	0.00
80.01	5.49	2.85	0.00
82.01	5.49	2.85	0.00
84.01	5.49	2.85	0.00
86.01	5.49	2.85	0.00
88.01	5.49	2.85	0.00
90.01	5.49	2.85	0.00
92.01	5.49	2.85	0.00
94.01	5.49	2.85	0.00
96.01	5.49	2.85	0.00
98.01	5.49	2.85	0.00
100.01	5.49	2.85	0.00
102.01	5.49	2.85	0.00
104.01	5.49	2.85	0.00
106.01	5.49	2.85	0.00
108.01	5.49	2.85	0.00
110.01	5.49	2.85	0.00
112.01	5.49	2.85	0.00
114.01	5.49	2.85	0.00
116.01	5.49	2.85	0.00
118.01	5.49	2.85	0.00

Summary for Subcatchment 1B: 1B

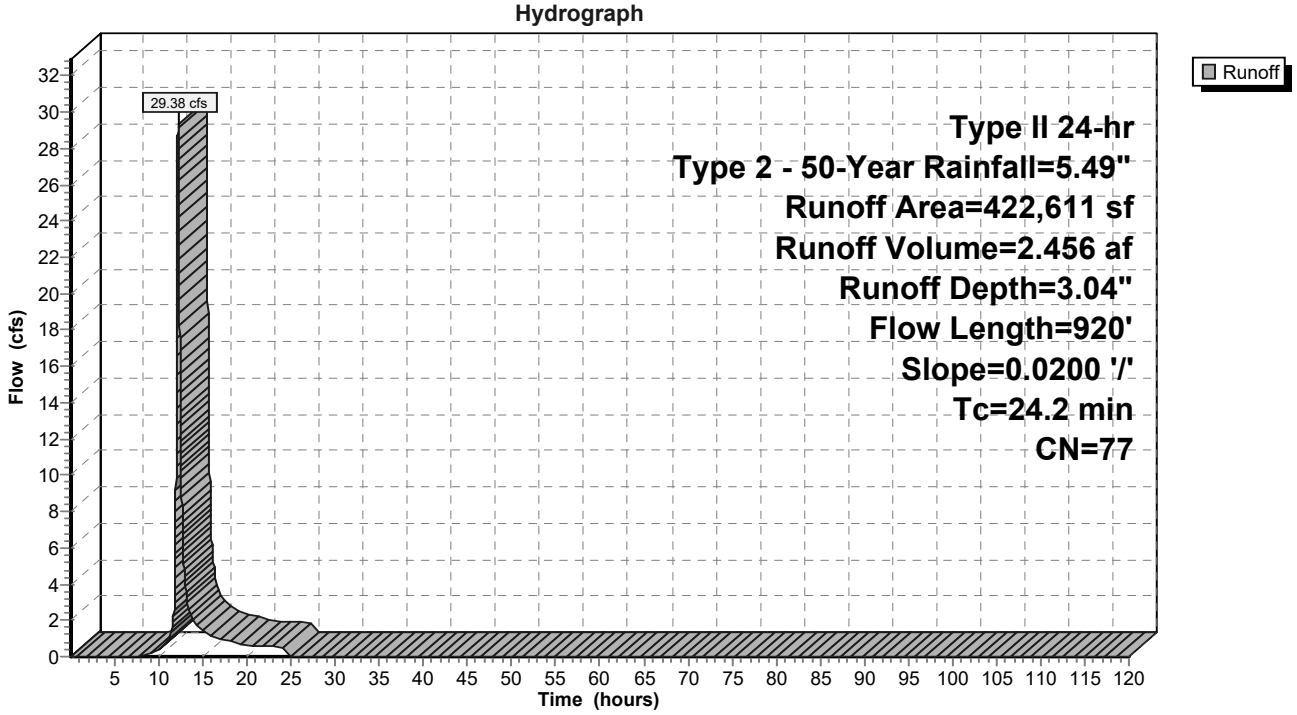
Runoff = 29.38 cfs @ 12.18 hrs, Volume= 2.456 af, Depth= 3.04"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.00	0.02
10.01	1.00	0.05	0.35
12.01	3.65	1.54	**17.57**
14.01	4.50	2.21	**1.93**
16.01	4.83	2.48	1.13
18.01	5.06	2.67	0.85
20.01	5.23	2.81	0.63
22.01	**5.36**	**2.93**	0.56
24.01	**5.49**	**3.04**	0.51
26.01	5.49	3.04	0.00
28.01	5.49	3.04	0.00
30.01	5.49	3.04	0.00
32.01	5.49	3.04	0.00
34.01	5.49	3.04	0.00
36.01	5.49	3.04	0.00
38.01	5.49	3.04	0.00
40.01	5.49	3.04	0.00
42.01	5.49	3.04	0.00
44.01	5.49	3.04	0.00
46.01	5.49	3.04	0.00
48.01	5.49	3.04	0.00
50.01	5.49	3.04	0.00
52.01	5.49	3.04	0.00
54.01	5.49	3.04	0.00
56.01	5.49	3.04	0.00
58.01	5.49	3.04	0.00
60.01	5.49	3.04	0.00
62.01	5.49	3.04	0.00
64.01	5.49	3.04	0.00
66.01	5.49	3.04	0.00
68.01	5.49	3.04	0.00
70.01	5.49	3.04	0.00
72.01	5.49	3.04	0.00
74.01	5.49	3.04	0.00
76.01	5.49	3.04	0.00
78.01	5.49	3.04	0.00
80.01	5.49	3.04	0.00
82.01	5.49	3.04	0.00
84.01	5.49	3.04	0.00
86.01	5.49	3.04	0.00
88.01	5.49	3.04	0.00
90.01	5.49	3.04	0.00
92.01	5.49	3.04	0.00
94.01	5.49	3.04	0.00
96.01	5.49	3.04	0.00
98.01	5.49	3.04	0.00
100.01	5.49	3.04	0.00
102.01	5.49	3.04	0.00
104.01	5.49	3.04	0.00
106.01	5.49	3.04	0.00
108.01	5.49	3.04	0.00
110.01	5.49	3.04	0.00
112.01	5.49	3.04	0.00
114.01	5.49	3.04	0.00
116.01	5.49	3.04	0.00
118.01	5.49	3.04	0.00

Summary for Subcatchment 1C: 1C

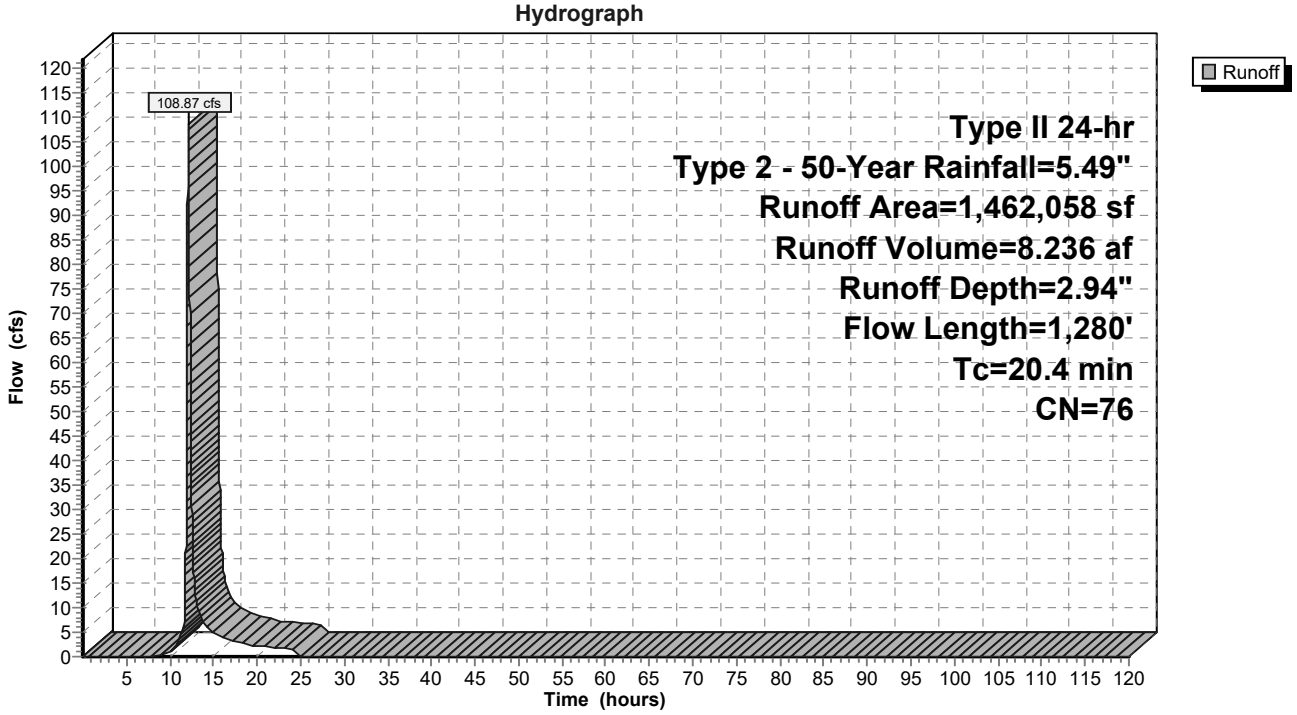
Runoff = 108.87 cfs @ 12.13 hrs, Volume= 8.236 af, Depth= 2.94"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.00	0.01
10.01	1.00	0.04	1.09
12.01	3.65	1.48	**75.87**
14.01	4.50	2.13	**6.37**
16.01	4.83	2.40	3.80
18.01	5.06	2.58	2.88
20.01	5.23	2.72	2.13
22.01	**5.36**	**2.84**	1.90
24.01	**5.49**	**2.94**	1.75
26.01	5.49	2.94	0.00
28.01	5.49	2.94	0.00
30.01	5.49	2.94	0.00
32.01	5.49	2.94	0.00
34.01	5.49	2.94	0.00
36.01	5.49	2.94	0.00
38.01	5.49	2.94	0.00
40.01	5.49	2.94	0.00
42.01	5.49	2.94	0.00
44.01	5.49	2.94	0.00
46.01	5.49	2.94	0.00
48.01	5.49	2.94	0.00
50.01	5.49	2.94	0.00
52.01	5.49	2.94	0.00
54.01	5.49	2.94	0.00
56.01	5.49	2.94	0.00
58.01	5.49	2.94	0.00
60.01	5.49	2.94	0.00
62.01	5.49	2.94	0.00
64.01	5.49	2.94	0.00
66.01	5.49	2.94	0.00
68.01	5.49	2.94	0.00
70.01	5.49	2.94	0.00
72.01	5.49	2.94	0.00
74.01	5.49	2.94	0.00
76.01	5.49	2.94	0.00
78.01	5.49	2.94	0.00
80.01	5.49	2.94	0.00
82.01	5.49	2.94	0.00
84.01	5.49	2.94	0.00
86.01	5.49	2.94	0.00
88.01	5.49	2.94	0.00
90.01	5.49	2.94	0.00
92.01	5.49	2.94	0.00
94.01	5.49	2.94	0.00
96.01	5.49	2.94	0.00
98.01	5.49	2.94	0.00
100.01	5.49	2.94	0.00
102.01	5.49	2.94	0.00
104.01	5.49	2.94	0.00
106.01	5.49	2.94	0.00
108.01	5.49	2.94	0.00
110.01	5.49	2.94	0.00
112.01	5.49	2.94	0.00
114.01	5.49	2.94	0.00
116.01	5.49	2.94	0.00
118.01	5.49	2.94	0.00

Summary for Subcatchment 1D: 1D

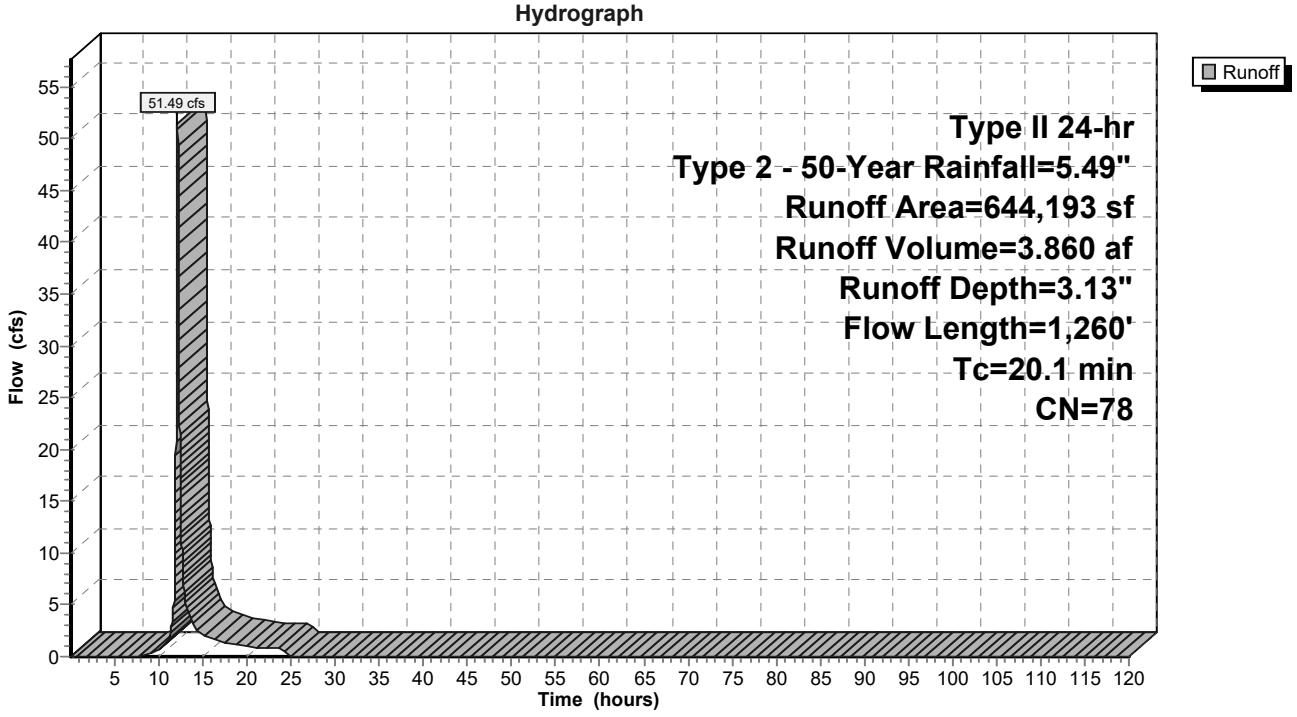
Runoff = 51.49 cfs @ 12.13 hrs, Volume= 3.860 af, Depth= 3.13"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.00	0.07
10.01	1.00	0.06	0.63
12.01	3.65	1.61	**36.78**
14.01	4.50	2.30	**2.90**
16.01	4.83	2.57	1.73
18.01	5.06	2.76	1.30
20.01	5.23	2.91	0.96
22.01	**5.36**	**3.02**	0.86
24.01	**5.49**	**3.13**	0.79
26.01	5.49	3.13	0.00
28.01	5.49	3.13	0.00
30.01	5.49	3.13	0.00
32.01	5.49	3.13	0.00
34.01	5.49	3.13	0.00
36.01	5.49	3.13	0.00
38.01	5.49	3.13	0.00
40.01	5.49	3.13	0.00
42.01	5.49	3.13	0.00
44.01	5.49	3.13	0.00
46.01	5.49	3.13	0.00
48.01	5.49	3.13	0.00
50.01	5.49	3.13	0.00
52.01	5.49	3.13	0.00
54.01	5.49	3.13	0.00
56.01	5.49	3.13	0.00
58.01	5.49	3.13	0.00
60.01	5.49	3.13	0.00
62.01	5.49	3.13	0.00
64.01	5.49	3.13	0.00
66.01	5.49	3.13	0.00
68.01	5.49	3.13	0.00
70.01	5.49	3.13	0.00
72.01	5.49	3.13	0.00
74.01	5.49	3.13	0.00
76.01	5.49	3.13	0.00
78.01	5.49	3.13	0.00
80.01	5.49	3.13	0.00
82.01	5.49	3.13	0.00
84.01	5.49	3.13	0.00
86.01	5.49	3.13	0.00
88.01	5.49	3.13	0.00
90.01	5.49	3.13	0.00
92.01	5.49	3.13	0.00
94.01	5.49	3.13	0.00
96.01	5.49	3.13	0.00
98.01	5.49	3.13	0.00
100.01	5.49	3.13	0.00
102.01	5.49	3.13	0.00
104.01	5.49	3.13	0.00
106.01	5.49	3.13	0.00
108.01	5.49	3.13	0.00
110.01	5.49	3.13	0.00
112.01	5.49	3.13	0.00
114.01	5.49	3.13	0.00
116.01	5.49	3.13	0.00
118.01	5.49	3.13	0.00

Summary for Subcatchment 1E: 1E

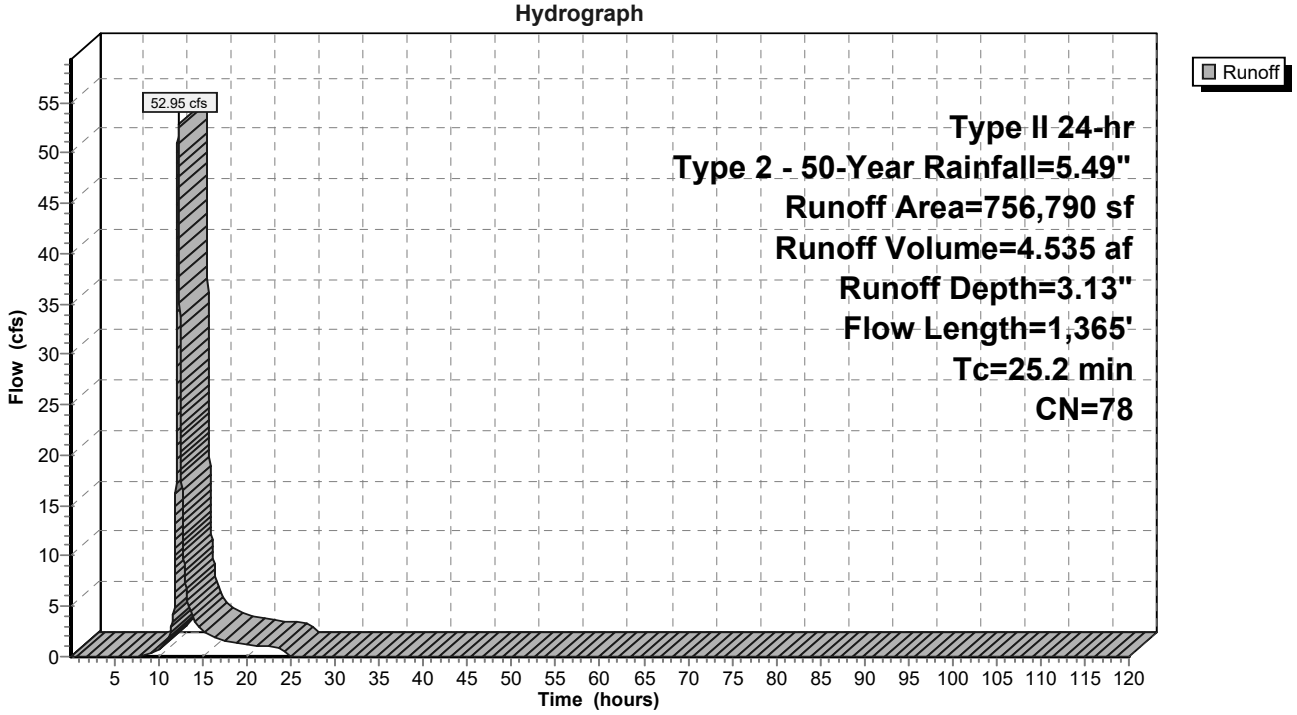
Runoff = 52.95 cfs @ 12.18 hrs, Volume= 4.535 af, Depth= 3.13"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

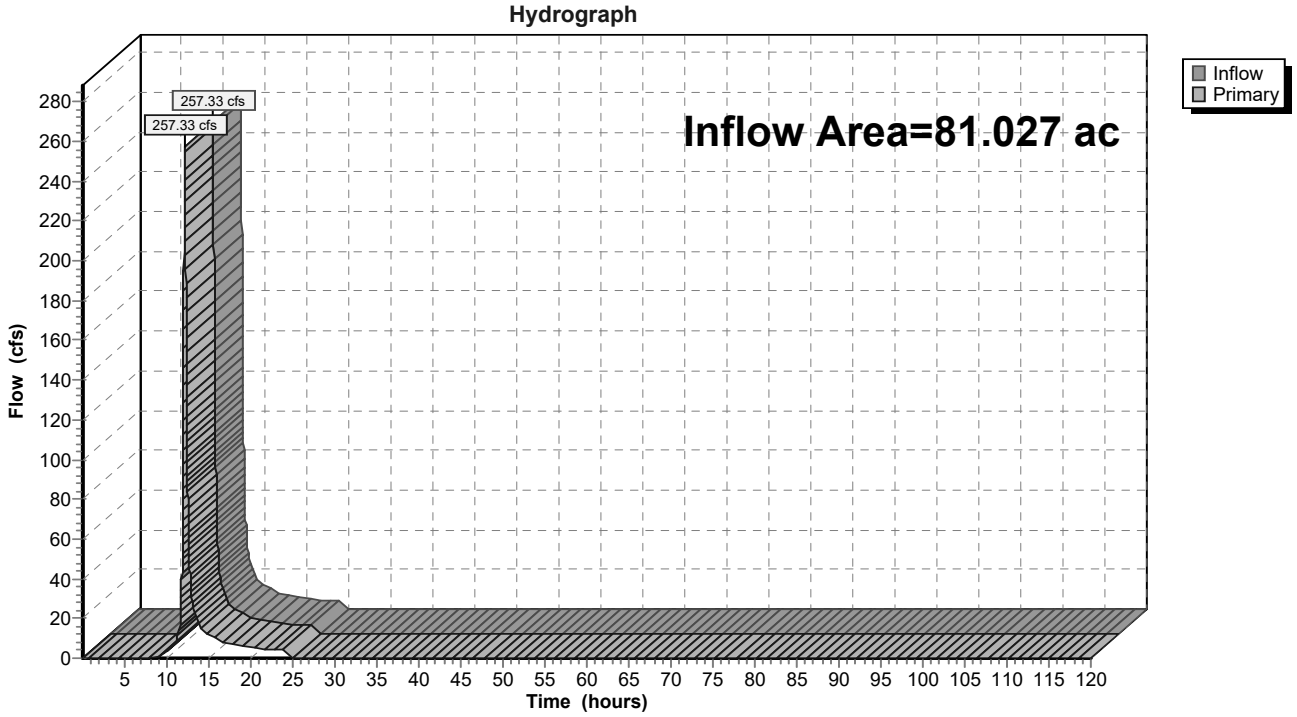
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.00	0.07
10.01	1.00	0.06	0.70
12.01	3.65	1.61	**30.62**
14.01	4.50	2.30	**3.54**
16.01	4.83	2.57	2.07
18.01	5.06	2.76	1.55
20.01	5.23	2.91	1.15
22.01	**5.36**	**3.02**	1.01
24.01	**5.49**	**3.13**	0.93
26.01	5.49	3.13	0.00
28.01	5.49	3.13	0.00
30.01	5.49	3.13	0.00
32.01	5.49	3.13	0.00
34.01	5.49	3.13	0.00
36.01	5.49	3.13	0.00
38.01	5.49	3.13	0.00
40.01	5.49	3.13	0.00
42.01	5.49	3.13	0.00
44.01	5.49	3.13	0.00
46.01	5.49	3.13	0.00
48.01	5.49	3.13	0.00
50.01	5.49	3.13	0.00
52.01	5.49	3.13	0.00
54.01	5.49	3.13	0.00
56.01	5.49	3.13	0.00
58.01	5.49	3.13	0.00
60.01	5.49	3.13	0.00
62.01	5.49	3.13	0.00
64.01	5.49	3.13	0.00
66.01	5.49	3.13	0.00
68.01	5.49	3.13	0.00
70.01	5.49	3.13	0.00
72.01	5.49	3.13	0.00
74.01	5.49	3.13	0.00
76.01	5.49	3.13	0.00
78.01	5.49	3.13	0.00
80.01	5.49	3.13	0.00
82.01	5.49	3.13	0.00
84.01	5.49	3.13	0.00
86.01	5.49	3.13	0.00
88.01	5.49	3.13	0.00
90.01	5.49	3.13	0.00
92.01	5.49	3.13	0.00
94.01	5.49	3.13	0.00
96.01	5.49	3.13	0.00
98.01	5.49	3.13	0.00
100.01	5.49	3.13	0.00
102.01	5.49	3.13	0.00
104.01	5.49	3.13	0.00
106.01	5.49	3.13	0.00
108.01	5.49	3.13	0.00
110.01	5.49	3.13	0.00
112.01	5.49	3.13	0.00
114.01	5.49	3.13	0.00
116.01	5.49	3.13	0.00
118.01	5.49	3.13	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 3.02" for Type 2 - 50-Year event
Inflow = 257.33 cfs @ 12.14 hrs, Volume= 20.418 af
Primary = 257.33 cfs @ 12.14 hrs, Volume= 20.418 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.17	0.00	0.17
10.01	2.93	0.00	2.93
12.01	**175.40**	0.00	**175.40**
14.01	**15.77**	0.00	**15.77**
16.01	9.35	0.00	9.35
18.01	7.05	0.00	7.05
20.01	5.22	0.00	5.22
22.01	4.63	0.00	4.63
24.01	4.28	0.00	4.28
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=243,883 sf 0.00% Impervious Runoff Depth=3.57"
Flow Length=475' Tc=17.9 min CN=75 Runoff=23.69 cfs 1.667 af

Subcatchment1B: 1B Runoff Area=422,611 sf 0.00% Impervious Runoff Depth=3.78"
Flow Length=920' Slope=0.0200 '/' Tc=24.2 min CN=77 Runoff=36.52 cfs 3.054 af

Subcatchment1C: 1C Runoff Area=1,462,058 sf 0.00% Impervious Runoff Depth=3.68"
Flow Length=1,280' Tc=20.4 min CN=76 Runoff=135.92 cfs 10.280 af

Subcatchment1D: 1D Runoff Area=644,193 sf 0.00% Impervious Runoff Depth=3.88"
Flow Length=1,260' Tc=20.1 min CN=78 Runoff=63.67 cfs 4.783 af

Subcatchment1E: 1E Runoff Area=756,790 sf 0.00% Impervious Runoff Depth=3.88"
Flow Length=1,365' Tc=25.2 min CN=78 Runoff=65.57 cfs 5.619 af

Link 1: OFFSITE Inflow=320.52 cfs 25.403 af
Primary=320.52 cfs 25.403 af

Total Runoff Area = 81.027 ac Runoff Volume = 25.403 af Average Runoff Depth = 3.76"
100.00% Pervious = 81.027 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1A: 1A

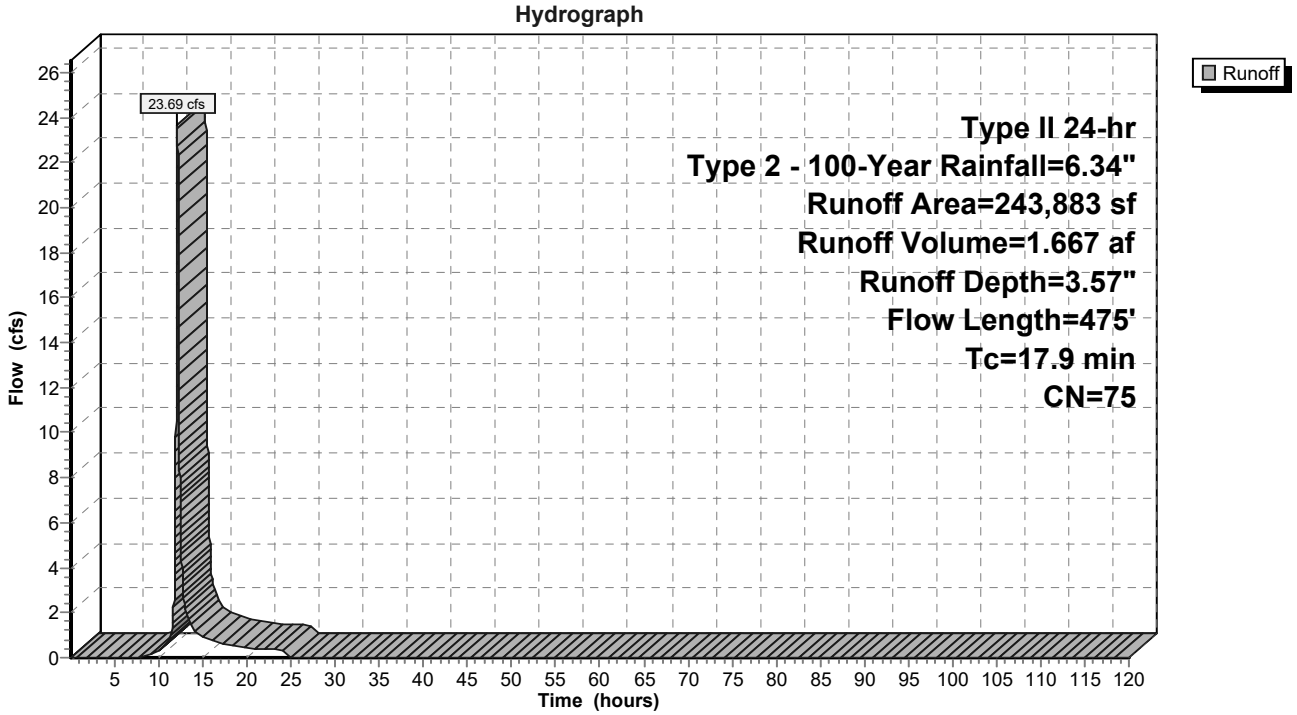
Runoff = 23.69 cfs @ 12.11 hrs, Volume= 1.667 af, Depth= 3.57"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

	Area (sf)	CN	Description
*	148,310	78	Cropland
	95,573	70	Woods, Good, HSG C
	243,883	75	Weighted Average
	243,883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
2.5	190	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
1.7	165	0.1000	1.58		**Shallow Concentrated Flow, Tree Flow** Woodland Kv= 5.0 fps
17.9	475	Total			

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.00	0.03
10.01	1.15	0.06	0.27
12.01	4.22	1.83	**18.48**
14.01	5.20	2.61	**1.24**
16.01	5.58	2.93	0.74
18.01	5.84	3.15	0.56
20.01	6.04	3.31	0.42
22.01	**6.19**	**3.45**	0.37
24.01	**6.34**	**3.57**	0.34
26.01	6.34	3.57	0.00
28.01	6.34	3.57	0.00
30.01	6.34	3.57	0.00
32.01	6.34	3.57	0.00
34.01	6.34	3.57	0.00
36.01	6.34	3.57	0.00
38.01	6.34	3.57	0.00
40.01	6.34	3.57	0.00
42.01	6.34	3.57	0.00
44.01	6.34	3.57	0.00
46.01	6.34	3.57	0.00
48.01	6.34	3.57	0.00
50.01	6.34	3.57	0.00
52.01	6.34	3.57	0.00
54.01	6.34	3.57	0.00
56.01	6.34	3.57	0.00
58.01	6.34	3.57	0.00
60.01	6.34	3.57	0.00
62.01	6.34	3.57	0.00
64.01	6.34	3.57	0.00
66.01	6.34	3.57	0.00
68.01	6.34	3.57	0.00
70.01	6.34	3.57	0.00
72.01	6.34	3.57	0.00
74.01	6.34	3.57	0.00
76.01	6.34	3.57	0.00
78.01	6.34	3.57	0.00
80.01	6.34	3.57	0.00
82.01	6.34	3.57	0.00
84.01	6.34	3.57	0.00
86.01	6.34	3.57	0.00
88.01	6.34	3.57	0.00
90.01	6.34	3.57	0.00
92.01	6.34	3.57	0.00
94.01	6.34	3.57	0.00
96.01	6.34	3.57	0.00
98.01	6.34	3.57	0.00
100.01	6.34	3.57	0.00
102.01	6.34	3.57	0.00
104.01	6.34	3.57	0.00
106.01	6.34	3.57	0.00
108.01	6.34	3.57	0.00
110.01	6.34	3.57	0.00
112.01	6.34	3.57	0.00
114.01	6.34	3.57	0.00
116.01	6.34	3.57	0.00
118.01	6.34	3.57	0.00

Summary for Subcatchment 1B: 1B

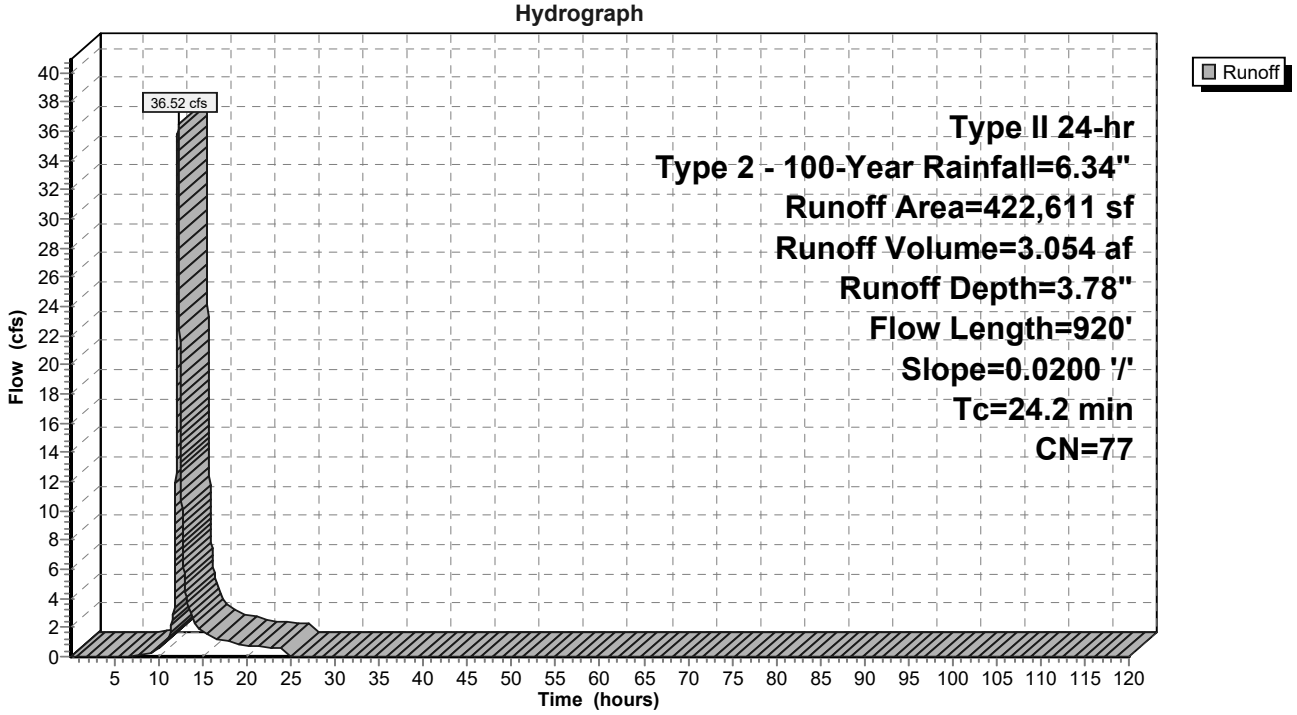
Runoff = 36.52 cfs @ 12.18 hrs, Volume= 3.054 af, Depth= 3.78"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

	Area (sf)	CN	Description
	30,229	70	Woods, Good, HSG C
*	392,382	78	Cropland
	422,611	77	Weighted Average
	422,611		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.5	800	0.0200	1.27		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
24.2	920	Total			

Subcatchment 1B: 1B



Hydrograph for Subcatchment 1B: 1B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.01	0.10
10.01	1.15	0.09	0.54
12.01	4.22	1.98	**22.29**
14.01	5.20	2.79	**2.32**
16.01	5.58	3.12	1.36
18.01	5.84	3.34	1.02
20.01	6.04	3.51	0.75
22.01	**6.19**	**3.65**	0.66
24.01	**6.34**	**3.78**	0.61
26.01	6.34	3.78	0.00
28.01	6.34	3.78	0.00
30.01	6.34	3.78	0.00
32.01	6.34	3.78	0.00
34.01	6.34	3.78	0.00
36.01	6.34	3.78	0.00
38.01	6.34	3.78	0.00
40.01	6.34	3.78	0.00
42.01	6.34	3.78	0.00
44.01	6.34	3.78	0.00
46.01	6.34	3.78	0.00
48.01	6.34	3.78	0.00
50.01	6.34	3.78	0.00
52.01	6.34	3.78	0.00
54.01	6.34	3.78	0.00
56.01	6.34	3.78	0.00
58.01	6.34	3.78	0.00
60.01	6.34	3.78	0.00
62.01	6.34	3.78	0.00
64.01	6.34	3.78	0.00
66.01	6.34	3.78	0.00
68.01	6.34	3.78	0.00
70.01	6.34	3.78	0.00
72.01	6.34	3.78	0.00
74.01	6.34	3.78	0.00
76.01	6.34	3.78	0.00
78.01	6.34	3.78	0.00
80.01	6.34	3.78	0.00
82.01	6.34	3.78	0.00
84.01	6.34	3.78	0.00
86.01	6.34	3.78	0.00
88.01	6.34	3.78	0.00
90.01	6.34	3.78	0.00
92.01	6.34	3.78	0.00
94.01	6.34	3.78	0.00
96.01	6.34	3.78	0.00
98.01	6.34	3.78	0.00
100.01	6.34	3.78	0.00
102.01	6.34	3.78	0.00
104.01	6.34	3.78	0.00
106.01	6.34	3.78	0.00
108.01	6.34	3.78	0.00
110.01	6.34	3.78	0.00
112.01	6.34	3.78	0.00
114.01	6.34	3.78	0.00
116.01	6.34	3.78	0.00
118.01	6.34	3.78	0.00

Summary for Subcatchment 1C: 1C

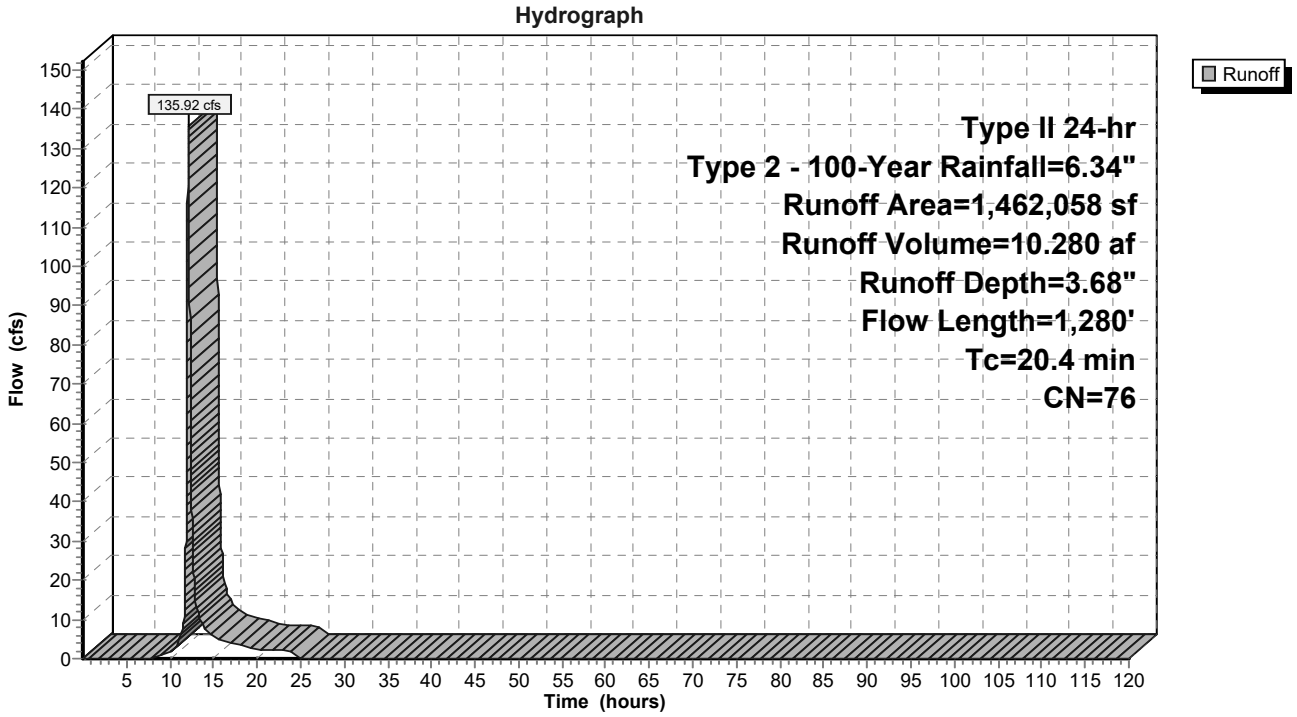
Runoff = 135.92 cfs @ 12.13 hrs, Volume= 10.280 af, Depth= 3.68"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

	Area (sf)	CN	Description
	275,724	70	Woods, Good, HSG C
*	1,186,334	78	Cropland
	1,462,058	76	Weighted Average
	1,462,058		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	120	0.0300	0.17		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
8.8	1,160	0.0600	2.20		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.4	1,280	Total			

Subcatchment 1C: 1C



Hydrograph for Subcatchment 1C: 1C

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.01	0.24
10.01	1.15	0.07	1.76
12.01	4.22	1.91	**96.26**
14.01	5.20	2.70	**7.68**
16.01	5.58	3.02	4.56
18.01	5.84	3.24	3.45
20.01	6.04	3.41	2.55
22.01	**6.19**	**3.55**	2.27
24.01	**6.34**	**3.68**	2.09
26.01	6.34	3.68	0.00
28.01	6.34	3.68	0.00
30.01	6.34	3.68	0.00
32.01	6.34	3.68	0.00
34.01	6.34	3.68	0.00
36.01	6.34	3.68	0.00
38.01	6.34	3.68	0.00
40.01	6.34	3.68	0.00
42.01	6.34	3.68	0.00
44.01	6.34	3.68	0.00
46.01	6.34	3.68	0.00
48.01	6.34	3.68	0.00
50.01	6.34	3.68	0.00
52.01	6.34	3.68	0.00
54.01	6.34	3.68	0.00
56.01	6.34	3.68	0.00
58.01	6.34	3.68	0.00
60.01	6.34	3.68	0.00
62.01	6.34	3.68	0.00
64.01	6.34	3.68	0.00
66.01	6.34	3.68	0.00
68.01	6.34	3.68	0.00
70.01	6.34	3.68	0.00
72.01	6.34	3.68	0.00
74.01	6.34	3.68	0.00
76.01	6.34	3.68	0.00
78.01	6.34	3.68	0.00
80.01	6.34	3.68	0.00
82.01	6.34	3.68	0.00
84.01	6.34	3.68	0.00
86.01	6.34	3.68	0.00
88.01	6.34	3.68	0.00
90.01	6.34	3.68	0.00
92.01	6.34	3.68	0.00
94.01	6.34	3.68	0.00
96.01	6.34	3.68	0.00
98.01	6.34	3.68	0.00
100.01	6.34	3.68	0.00
102.01	6.34	3.68	0.00
104.01	6.34	3.68	0.00
106.01	6.34	3.68	0.00
108.01	6.34	3.68	0.00
110.01	6.34	3.68	0.00
112.01	6.34	3.68	0.00
114.01	6.34	3.68	0.00
116.01	6.34	3.68	0.00
118.01	6.34	3.68	0.00

Summary for Subcatchment 1D: 1D

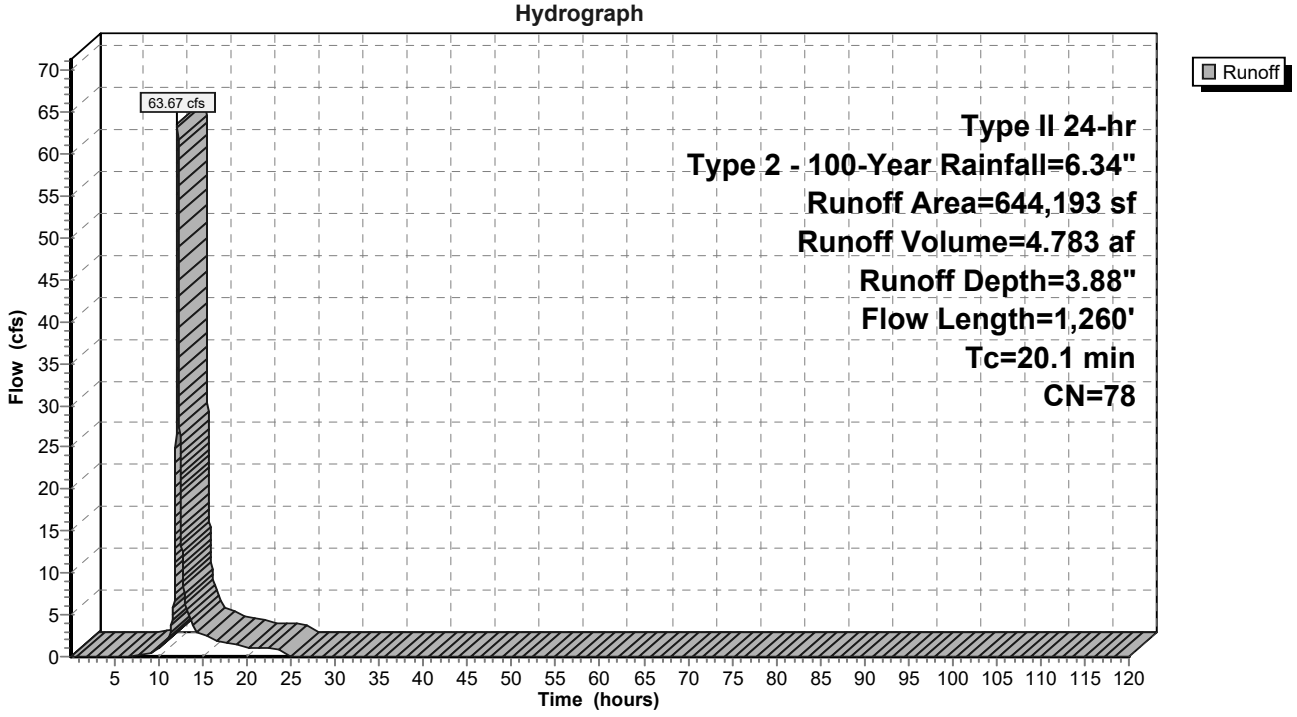
Runoff = 63.67 cfs @ 12.13 hrs, Volume= 4.783 af, Depth= 3.88"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

	Area (sf)	CN	Description
	33,653	70	Woods, Good, HSG C
*	610,540	78	Cropland
	644,193	78	Weighted Average
	644,193		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	120	0.0500	0.21		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
10.6	1,140	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
20.1	1,260	Total			

Subcatchment 1D: 1D



Hydrograph for Subcatchment 1D: 1D

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.01	0.21
10.01	1.15	0.10	0.95
12.01	4.22	2.06	**46.13**
14.01	5.20	2.88	**3.48**
16.01	5.58	3.21	2.06
18.01	5.84	3.44	1.56
20.01	6.04	3.61	1.15
22.01	**6.19**	**3.75**	1.02
24.01	**6.34**	**3.88**	0.94
26.01	6.34	3.88	0.00
28.01	6.34	3.88	0.00
30.01	6.34	3.88	0.00
32.01	6.34	3.88	0.00
34.01	6.34	3.88	0.00
36.01	6.34	3.88	0.00
38.01	6.34	3.88	0.00
40.01	6.34	3.88	0.00
42.01	6.34	3.88	0.00
44.01	6.34	3.88	0.00
46.01	6.34	3.88	0.00
48.01	6.34	3.88	0.00
50.01	6.34	3.88	0.00
52.01	6.34	3.88	0.00
54.01	6.34	3.88	0.00
56.01	6.34	3.88	0.00
58.01	6.34	3.88	0.00
60.01	6.34	3.88	0.00
62.01	6.34	3.88	0.00
64.01	6.34	3.88	0.00
66.01	6.34	3.88	0.00
68.01	6.34	3.88	0.00
70.01	6.34	3.88	0.00
72.01	6.34	3.88	0.00
74.01	6.34	3.88	0.00
76.01	6.34	3.88	0.00
78.01	6.34	3.88	0.00
80.01	6.34	3.88	0.00
82.01	6.34	3.88	0.00
84.01	6.34	3.88	0.00
86.01	6.34	3.88	0.00
88.01	6.34	3.88	0.00
90.01	6.34	3.88	0.00
92.01	6.34	3.88	0.00
94.01	6.34	3.88	0.00
96.01	6.34	3.88	0.00
98.01	6.34	3.88	0.00
100.01	6.34	3.88	0.00
102.01	6.34	3.88	0.00
104.01	6.34	3.88	0.00
106.01	6.34	3.88	0.00
108.01	6.34	3.88	0.00
110.01	6.34	3.88	0.00
112.01	6.34	3.88	0.00
114.01	6.34	3.88	0.00
116.01	6.34	3.88	0.00
118.01	6.34	3.88	0.00

Summary for Subcatchment 1E: 1E

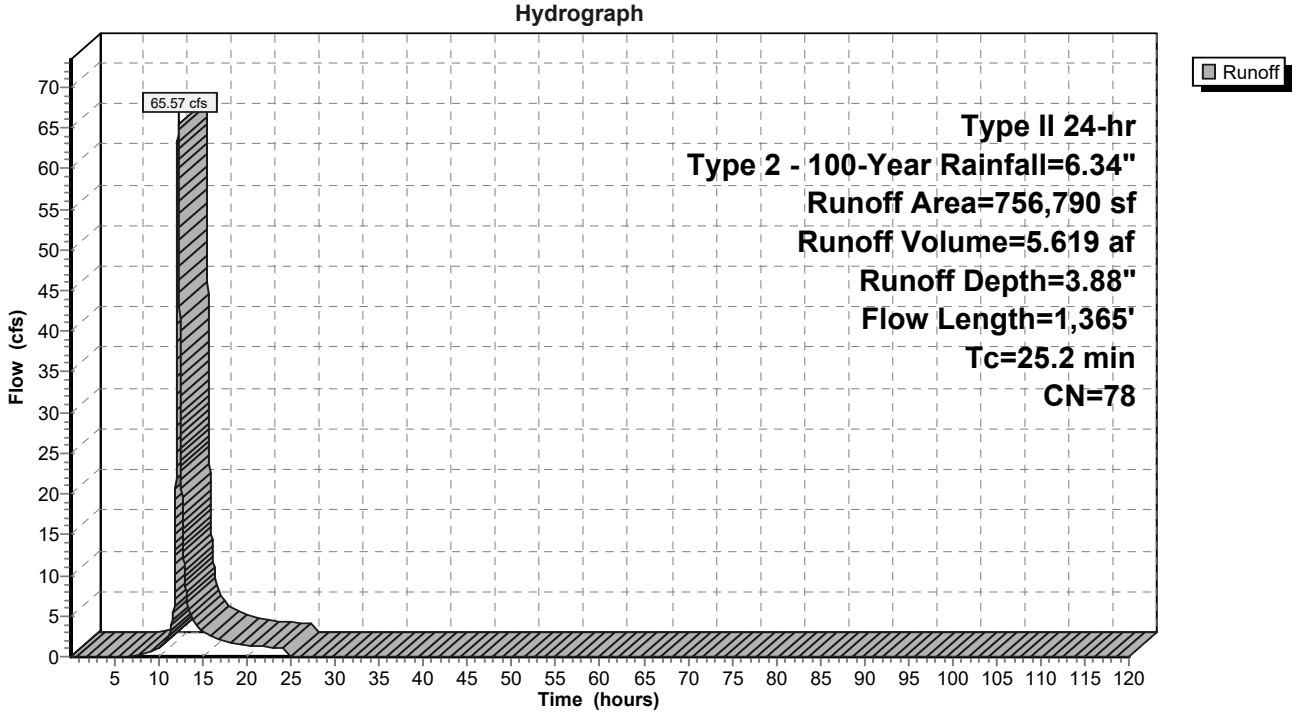
Runoff = 65.57 cfs @ 12.18 hrs, Volume= 5.619 af, Depth= 3.88"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

	Area (sf)	CN	Description
	27,057	70	Woods, Good, HSG C
*	729,733	78	Cropland
	756,790	78	Weighted Average
	756,790		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	120	0.0200	0.15		**Sheet Flow, Sheet Flow** Cultivated: Residue>20% n= 0.170 P2= 2.68"
11.5	1,245	0.0400	1.80		**Shallow Concentrated Flow, Flow** Cultivated Straight Rows Kv= 9.0 fps
25.2	1,365	Total			

Subcatchment 1E: 1E



Hydrograph for Subcatchment 1E: 1E

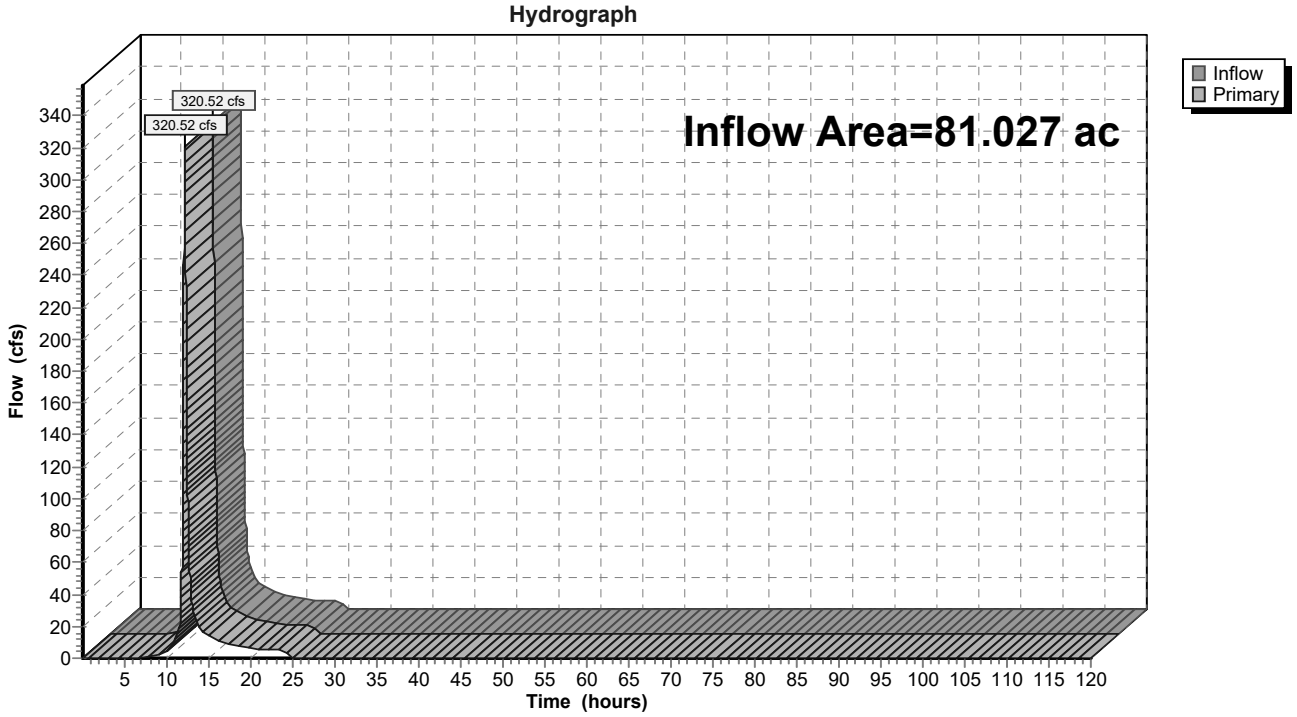
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.01	0.22
10.01	1.15	0.10	1.06
12.01	4.22	2.06	**38.68**
14.01	5.20	2.88	**4.25**
16.01	5.58	3.21	2.47
18.01	5.84	3.44	1.85
20.01	6.04	3.61	1.37
22.01	**6.19**	**3.75**	1.20
24.01	**6.34**	**3.88**	1.11
26.01	6.34	3.88	0.00
28.01	6.34	3.88	0.00
30.01	6.34	3.88	0.00
32.01	6.34	3.88	0.00
34.01	6.34	3.88	0.00
36.01	6.34	3.88	0.00
38.01	6.34	3.88	0.00
40.01	6.34	3.88	0.00
42.01	6.34	3.88	0.00
44.01	6.34	3.88	0.00
46.01	6.34	3.88	0.00
48.01	6.34	3.88	0.00
50.01	6.34	3.88	0.00
52.01	6.34	3.88	0.00
54.01	6.34	3.88	0.00
56.01	6.34	3.88	0.00
58.01	6.34	3.88	0.00
60.01	6.34	3.88	0.00
62.01	6.34	3.88	0.00
64.01	6.34	3.88	0.00
66.01	6.34	3.88	0.00
68.01	6.34	3.88	0.00
70.01	6.34	3.88	0.00
72.01	6.34	3.88	0.00
74.01	6.34	3.88	0.00
76.01	6.34	3.88	0.00
78.01	6.34	3.88	0.00
80.01	6.34	3.88	0.00
82.01	6.34	3.88	0.00
84.01	6.34	3.88	0.00
86.01	6.34	3.88	0.00
88.01	6.34	3.88	0.00
90.01	6.34	3.88	0.00
92.01	6.34	3.88	0.00
94.01	6.34	3.88	0.00
96.01	6.34	3.88	0.00
98.01	6.34	3.88	0.00
100.01	6.34	3.88	0.00
102.01	6.34	3.88	0.00
104.01	6.34	3.88	0.00
106.01	6.34	3.88	0.00
108.01	6.34	3.88	0.00
110.01	6.34	3.88	0.00
112.01	6.34	3.88	0.00
114.01	6.34	3.88	0.00
116.01	6.34	3.88	0.00
118.01	6.34	3.88	0.00

Summary for Link 1: OFFSITE

Inflow Area = 81.027 ac, 0.00% Impervious, Inflow Depth = 3.76" for Type 2 - 100-Year event
Inflow = 320.52 cfs @ 12.13 hrs, Volume= 25.403 af
Primary = 320.52 cfs @ 12.13 hrs, Volume= 25.403 af, Atten= 0%, Lag= 0.0 min

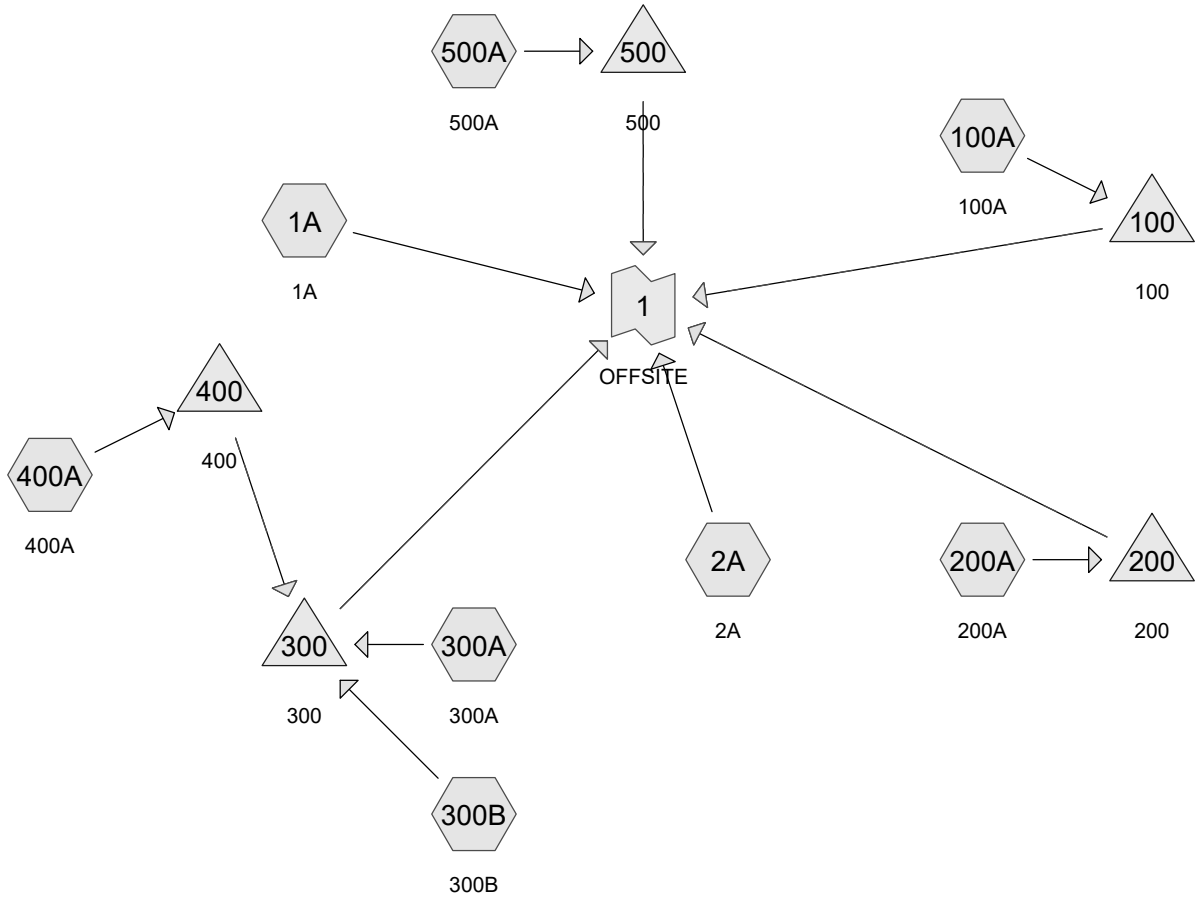
Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.80	0.00	0.80
10.01	4.58	0.00	4.58
12.01	**221.84**	0.00	**221.84**
14.01	**18.98**	0.00	**18.98**
16.01	11.20	0.00	11.20
18.01	8.43	0.00	8.43
20.01	6.24	0.00	6.24
22.01	5.52	0.00	5.52
24.01	5.09	0.00	5.09
26.01	0.00	0.00	0.00
28.01	0.00	0.00	0.00
30.01	0.00	0.00	0.00
32.01	0.00	0.00	0.00
34.01	0.00	0.00	0.00
36.01	0.00	0.00	0.00
38.01	0.00	0.00	0.00
40.01	0.00	0.00	0.00
42.01	0.00	0.00	0.00
44.01	0.00	0.00	0.00
46.01	0.00	0.00	0.00
48.01	0.00	0.00	0.00
50.01	0.00	0.00	0.00
52.01	0.00	0.00	0.00
54.01	0.00	0.00	0.00
56.01	0.00	0.00	0.00
58.01	0.00	0.00	0.00
60.01	0.00	0.00	0.00
62.01	0.00	0.00	0.00
64.01	0.00	0.00	0.00
66.01	0.00	0.00	0.00
68.01	0.00	0.00	0.00
70.01	0.00	0.00	0.00
72.01	0.00	0.00	0.00
74.01	0.00	0.00	0.00
76.01	0.00	0.00	0.00
78.01	0.00	0.00	0.00
80.01	0.00	0.00	0.00
82.01	0.00	0.00	0.00
84.01	0.00	0.00	0.00
86.01	0.00	0.00	0.00
88.01	0.00	0.00	0.00
90.01	0.00	0.00	0.00
92.01	0.00	0.00	0.00
94.01	0.00	0.00	0.00
96.01	0.00	0.00	0.00
98.01	0.00	0.00	0.00
100.01	0.00	0.00	0.00
102.01	0.00	0.00	0.00
104.01	0.00	0.00	0.00
106.01	0.00	0.00	0.00
108.01	0.00	0.00	0.00
110.01	0.00	0.00	0.00
112.01	0.00	0.00	0.00
114.01	0.00	0.00	0.00
116.01	0.00	0.00	0.00
118.01	0.00	0.00	0.00



Subcat Reach Pond Link

Routing Diagram for Proposed Conditions
Prepared by Foth & Van Dyke, LLC, Printed 3/24/2025
HydroCAD® 10.20-5c s/n 02551 © 2023 HydroCAD Software Solutions LLC

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	Type 2 - 2-Year	Type II 24-hr		Default	24.00	1	2.68	2
2	Type 2 - 5-Year	Type II 24-hr		Default	24.00	1	3.26	2
3	Type 2 - 10-Year	Type II 24-hr		Default	24.00	1	3.83	2
4	Type 2 - 25-Year	Type II 24-hr		Default	24.00	1	4.71	2
5	Type 2 - 50-Year	Type II 24-hr		Default	24.00	1	5.49	2
6	Type 2 - 100-Year	Type II 24-hr		Default	24.00	1	6.34	2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
56.514	83	1/4 acre lots, 38% imp, HSG C (1A, 2A, 100A, 300B, 400A, 500A)
10.656	90	1/8 acre lots, 65% imp, HSG C (200A, 300A)
6.787	98	Water Surface, HSG C (100A, 200A, 300B, 400A, 500A)
1.086	70	Woods, Good, HSG C (400A)
75.043	**85**	**TOTAL AREA**

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=1.19"
Tc=5.0 min CN=83 Runoff=5.65 cfs 0.253 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=1.19"
Tc=5.0 min CN=83 Runoff=0.33 cfs 0.015 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=1.26"
Tc=5.0 min CN=84 Runoff=57.65 cfs 2.584 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=1.77"
Tc=5.0 min CN=91 Runoff=16.46 cfs 0.765 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=1.69"
Tc=5.0 min CN=90 Runoff=18.31 cfs 0.844 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=1.39"
Tc=5.0 min CN=86 Runoff=32.64 cfs 1.471 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=1.19"
Tc=5.0 min CN=83 Runoff=13.13 cfs 0.588 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=1.26"
Tc=5.0 min CN=84 Runoff=41.93 cfs 1.880 af

Pond 100: 100 Peak Elev=880.17' Storage=296,128 cf Inflow=57.65 cfs 2.584 af
Primary=0.61 cfs 1.637 af Secondary=0.00 cfs 0.000 af Outflow=0.61 cfs 1.637 af

Pond 200: 200 Peak Elev=875.97' Storage=93,135 cf Inflow=16.46 cfs 0.765 af
Primary=0.44 cfs 0.506 af Secondary=0.00 cfs 0.000 af Outflow=0.44 cfs 0.506 af

Pond 300: 300 Peak Elev=875.83' Storage=484,308 cf Inflow=50.95 cfs 2.463 af
Primary=0.27 cfs 0.919 af Secondary=0.00 cfs 0.000 af Outflow=0.27 cfs 0.919 af

Pond 400: 400 Peak Elev=877.66' Storage=154,224 cf Inflow=13.13 cfs 0.588 af
Primary=0.07 cfs 0.148 af Secondary=0.00 cfs 0.000 af Outflow=0.07 cfs 0.148 af

Pond 500: 500 Peak Elev=900.04' Storage=259,307 cf Inflow=41.93 cfs 1.880 af
Primary=0.51 cfs 1.145 af Secondary=0.00 cfs 0.000 af Outflow=0.51 cfs 1.145 af

Link 1: OFFSITE Inflow=6.01 cfs 4.475 af
Primary=6.01 cfs 4.475 af

Total Runoff Area = 75.043 ac Runoff Volume = 8.400 af Average Runoff Depth = 1.34"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

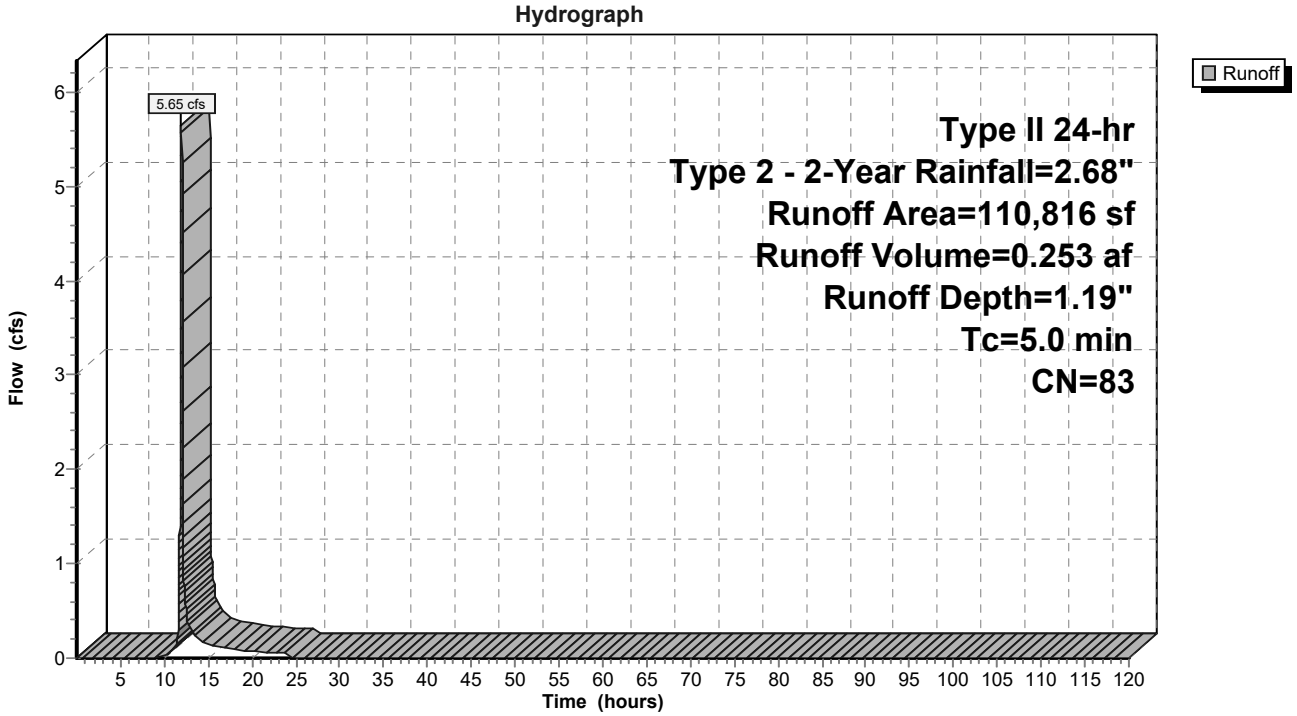
Runoff = 5.65 cfs @ 11.96 hrs, Volume= 0.253 af, Depth= 1.19"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	**0.02**
12.01	1.78	0.55	**4.52**
14.01	2.20	0.83	0.19
16.01	2.36	0.95	0.12
18.01	2.47	1.03	0.09
20.01	2.55	1.10	0.07
22.01	**2.62**	**1.15**	0.06
24.01	**2.68**	**1.19**	0.06
26.01	2.68	1.19	0.00
28.01	2.68	1.19	0.00
30.01	2.68	1.19	0.00
32.01	2.68	1.19	0.00
34.01	2.68	1.19	0.00
36.01	2.68	1.19	0.00
38.01	2.68	1.19	0.00
40.01	2.68	1.19	0.00
42.01	2.68	1.19	0.00
44.01	2.68	1.19	0.00
46.01	2.68	1.19	0.00
48.01	2.68	1.19	0.00
50.01	2.68	1.19	0.00
52.01	2.68	1.19	0.00
54.01	2.68	1.19	0.00
56.01	2.68	1.19	0.00
58.01	2.68	1.19	0.00
60.01	2.68	1.19	0.00
62.01	2.68	1.19	0.00
64.01	2.68	1.19	0.00
66.01	2.68	1.19	0.00
68.01	2.68	1.19	0.00
70.01	2.68	1.19	0.00
72.01	2.68	1.19	0.00
74.01	2.68	1.19	0.00
76.01	2.68	1.19	0.00
78.01	2.68	1.19	0.00
80.01	2.68	1.19	0.00
82.01	2.68	1.19	0.00
84.01	2.68	1.19	0.00
86.01	2.68	1.19	0.00
88.01	2.68	1.19	0.00
90.01	2.68	1.19	0.00
92.01	2.68	1.19	0.00
94.01	2.68	1.19	0.00
96.01	2.68	1.19	0.00
98.01	2.68	1.19	0.00
100.01	2.68	1.19	0.00
102.01	2.68	1.19	0.00
104.01	2.68	1.19	0.00
106.01	2.68	1.19	0.00
108.01	2.68	1.19	0.00
110.01	2.68	1.19	0.00
112.01	2.68	1.19	0.00
114.01	2.68	1.19	0.00
116.01	2.68	1.19	0.00
118.01	2.68	1.19	0.00

Summary for Subcatchment 2A: 2A

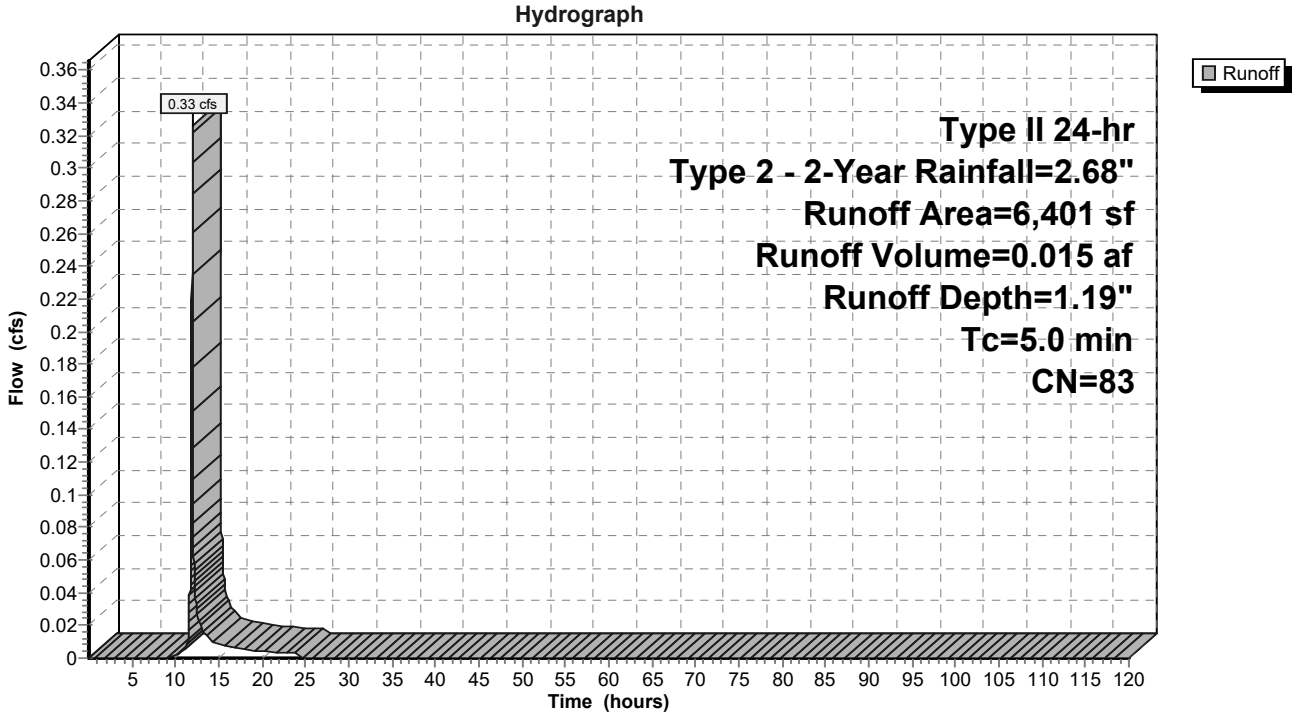
Runoff = 0.33 cfs @ 11.96 hrs, Volume= 0.015 af, Depth= 1.19"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	**0.00**
12.01	1.78	0.55	**0.26**
14.01	2.20	0.83	0.01
16.01	2.36	0.95	0.01
18.01	2.47	1.03	0.01
20.01	2.55	1.10	0.00
22.01	**2.62**	**1.15**	0.00
24.01	**2.68**	**1.19**	0.00
26.01	2.68	1.19	0.00
28.01	2.68	1.19	0.00
30.01	2.68	1.19	0.00
32.01	2.68	1.19	0.00
34.01	2.68	1.19	0.00
36.01	2.68	1.19	0.00
38.01	2.68	1.19	0.00
40.01	2.68	1.19	0.00
42.01	2.68	1.19	0.00
44.01	2.68	1.19	0.00
46.01	2.68	1.19	0.00
48.01	2.68	1.19	0.00
50.01	2.68	1.19	0.00
52.01	2.68	1.19	0.00
54.01	2.68	1.19	0.00
56.01	2.68	1.19	0.00
58.01	2.68	1.19	0.00
60.01	2.68	1.19	0.00
62.01	2.68	1.19	0.00
64.01	2.68	1.19	0.00
66.01	2.68	1.19	0.00
68.01	2.68	1.19	0.00
70.01	2.68	1.19	0.00
72.01	2.68	1.19	0.00
74.01	2.68	1.19	0.00
76.01	2.68	1.19	0.00
78.01	2.68	1.19	0.00
80.01	2.68	1.19	0.00
82.01	2.68	1.19	0.00
84.01	2.68	1.19	0.00
86.01	2.68	1.19	0.00
88.01	2.68	1.19	0.00
90.01	2.68	1.19	0.00
92.01	2.68	1.19	0.00
94.01	2.68	1.19	0.00
96.01	2.68	1.19	0.00
98.01	2.68	1.19	0.00
100.01	2.68	1.19	0.00
102.01	2.68	1.19	0.00
104.01	2.68	1.19	0.00
106.01	2.68	1.19	0.00
108.01	2.68	1.19	0.00
110.01	2.68	1.19	0.00
112.01	2.68	1.19	0.00
114.01	2.68	1.19	0.00
116.01	2.68	1.19	0.00
118.01	2.68	1.19	0.00

Summary for Subcatchment 100A: 100A

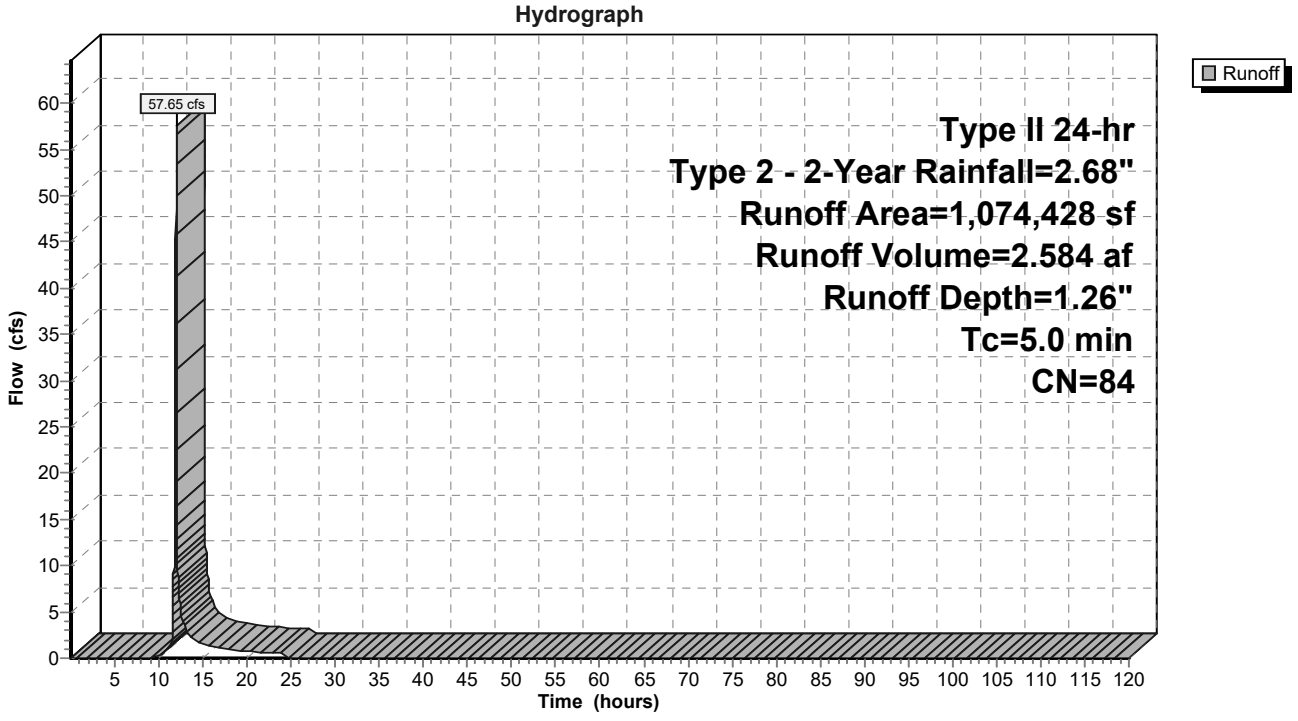
Runoff = 57.65 cfs @ 11.96 hrs, Volume= 2.584 af, Depth= 1.26"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.01	**0.25**
12.01	1.78	0.59	**45.86**
14.01	2.20	0.89	1.88
16.01	2.36	1.01	1.19
18.01	2.47	1.09	0.93
20.01	2.55	1.16	0.69
22.01	**2.62**	**1.21**	0.63
24.01	**2.68**	**1.26**	0.58
26.01	2.68	1.26	0.00
28.01	2.68	1.26	0.00
30.01	2.68	1.26	0.00
32.01	2.68	1.26	0.00
34.01	2.68	1.26	0.00
36.01	2.68	1.26	0.00
38.01	2.68	1.26	0.00
40.01	2.68	1.26	0.00
42.01	2.68	1.26	0.00
44.01	2.68	1.26	0.00
46.01	2.68	1.26	0.00
48.01	2.68	1.26	0.00
50.01	2.68	1.26	0.00
52.01	2.68	1.26	0.00
54.01	2.68	1.26	0.00
56.01	2.68	1.26	0.00
58.01	2.68	1.26	0.00
60.01	2.68	1.26	0.00
62.01	2.68	1.26	0.00
64.01	2.68	1.26	0.00
66.01	2.68	1.26	0.00
68.01	2.68	1.26	0.00
70.01	2.68	1.26	0.00
72.01	2.68	1.26	0.00
74.01	2.68	1.26	0.00
76.01	2.68	1.26	0.00
78.01	2.68	1.26	0.00
80.01	2.68	1.26	0.00
82.01	2.68	1.26	0.00
84.01	2.68	1.26	0.00
86.01	2.68	1.26	0.00
88.01	2.68	1.26	0.00
90.01	2.68	1.26	0.00
92.01	2.68	1.26	0.00
94.01	2.68	1.26	0.00
96.01	2.68	1.26	0.00
98.01	2.68	1.26	0.00
100.01	2.68	1.26	0.00
102.01	2.68	1.26	0.00
104.01	2.68	1.26	0.00
106.01	2.68	1.26	0.00
108.01	2.68	1.26	0.00
110.01	2.68	1.26	0.00
112.01	2.68	1.26	0.00
114.01	2.68	1.26	0.00
116.01	2.68	1.26	0.00
118.01	2.68	1.26	0.00

Summary for Subcatchment 200A: 200A

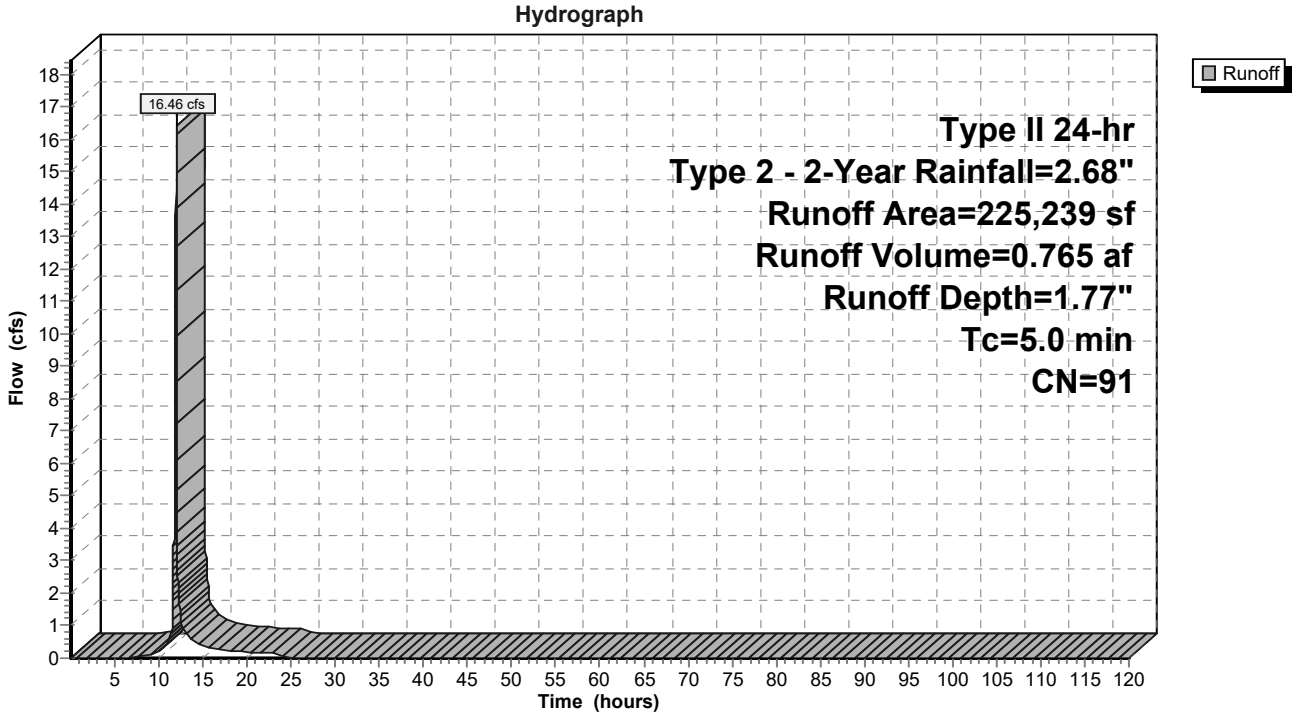
Runoff = 16.46 cfs @ 11.96 hrs, Volume= 0.765 af, Depth= 1.77"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.01
8.01	0.32	0.01	0.06
10.01	0.49	0.07	**0.21**
12.01	1.78	0.98	**12.69**
14.01	2.20	1.34	0.48
16.01	2.36	1.48	0.30
18.01	2.47	1.58	0.23
20.01	2.55	1.66	0.17
22.01	**2.62**	**1.72**	0.15
24.01	**2.68**	**1.77**	0.14
26.01	2.68	1.77	0.00
28.01	2.68	1.77	0.00
30.01	2.68	1.77	0.00
32.01	2.68	1.77	0.00
34.01	2.68	1.77	0.00
36.01	2.68	1.77	0.00
38.01	2.68	1.77	0.00
40.01	2.68	1.77	0.00
42.01	2.68	1.77	0.00
44.01	2.68	1.77	0.00
46.01	2.68	1.77	0.00
48.01	2.68	1.77	0.00
50.01	2.68	1.77	0.00
52.01	2.68	1.77	0.00
54.01	2.68	1.77	0.00
56.01	2.68	1.77	0.00
58.01	2.68	1.77	0.00
60.01	2.68	1.77	0.00
62.01	2.68	1.77	0.00
64.01	2.68	1.77	0.00
66.01	2.68	1.77	0.00
68.01	2.68	1.77	0.00
70.01	2.68	1.77	0.00
72.01	2.68	1.77	0.00
74.01	2.68	1.77	0.00
76.01	2.68	1.77	0.00
78.01	2.68	1.77	0.00
80.01	2.68	1.77	0.00
82.01	2.68	1.77	0.00
84.01	2.68	1.77	0.00
86.01	2.68	1.77	0.00
88.01	2.68	1.77	0.00
90.01	2.68	1.77	0.00
92.01	2.68	1.77	0.00
94.01	2.68	1.77	0.00
96.01	2.68	1.77	0.00
98.01	2.68	1.77	0.00
100.01	2.68	1.77	0.00
102.01	2.68	1.77	0.00
104.01	2.68	1.77	0.00
106.01	2.68	1.77	0.00
108.01	2.68	1.77	0.00
110.01	2.68	1.77	0.00
112.01	2.68	1.77	0.00
114.01	2.68	1.77	0.00
116.01	2.68	1.77	0.00
118.01	2.68	1.77	0.00

Summary for Subcatchment 300A: 300A

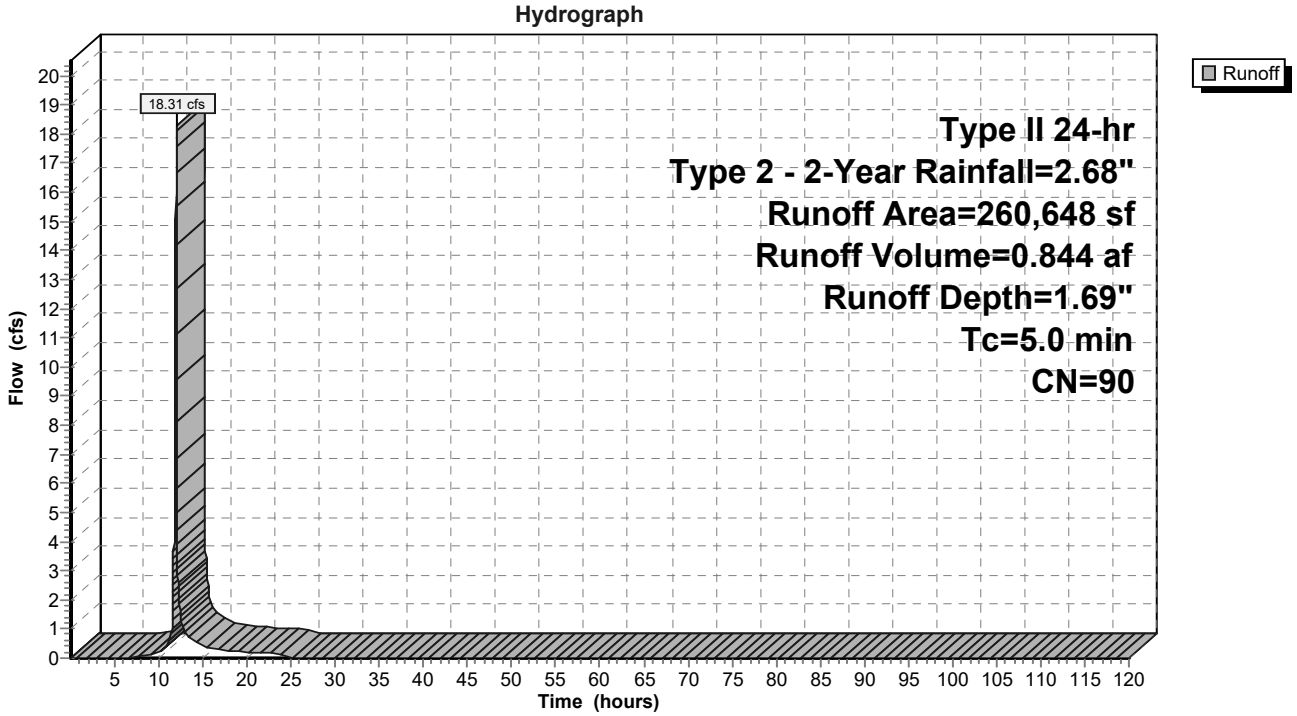
Runoff = 18.31 cfs @ 11.96 hrs, Volume= 0.844 af, Depth= 1.69"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.01	0.05
10.01	0.49	0.05	**0.21**
12.01	1.78	0.91	**14.19**
14.01	2.20	1.27	0.54
16.01	2.36	1.41	0.33
18.01	2.47	1.50	0.26
20.01	2.55	1.58	0.19
22.01	**2.62**	**1.64**	0.18
24.01	**2.68**	**1.69**	0.16
26.01	2.68	1.69	0.00
28.01	2.68	1.69	0.00
30.01	2.68	1.69	0.00
32.01	2.68	1.69	0.00
34.01	2.68	1.69	0.00
36.01	2.68	1.69	0.00
38.01	2.68	1.69	0.00
40.01	2.68	1.69	0.00
42.01	2.68	1.69	0.00
44.01	2.68	1.69	0.00
46.01	2.68	1.69	0.00
48.01	2.68	1.69	0.00
50.01	2.68	1.69	0.00
52.01	2.68	1.69	0.00
54.01	2.68	1.69	0.00
56.01	2.68	1.69	0.00
58.01	2.68	1.69	0.00
60.01	2.68	1.69	0.00
62.01	2.68	1.69	0.00
64.01	2.68	1.69	0.00
66.01	2.68	1.69	0.00
68.01	2.68	1.69	0.00
70.01	2.68	1.69	0.00
72.01	2.68	1.69	0.00
74.01	2.68	1.69	0.00
76.01	2.68	1.69	0.00
78.01	2.68	1.69	0.00
80.01	2.68	1.69	0.00
82.01	2.68	1.69	0.00
84.01	2.68	1.69	0.00
86.01	2.68	1.69	0.00
88.01	2.68	1.69	0.00
90.01	2.68	1.69	0.00
92.01	2.68	1.69	0.00
94.01	2.68	1.69	0.00
96.01	2.68	1.69	0.00
98.01	2.68	1.69	0.00
100.01	2.68	1.69	0.00
102.01	2.68	1.69	0.00
104.01	2.68	1.69	0.00
106.01	2.68	1.69	0.00
108.01	2.68	1.69	0.00
110.01	2.68	1.69	0.00
112.01	2.68	1.69	0.00
114.01	2.68	1.69	0.00
116.01	2.68	1.69	0.00
118.01	2.68	1.69	0.00

Summary for Subcatchment 300B: 300B

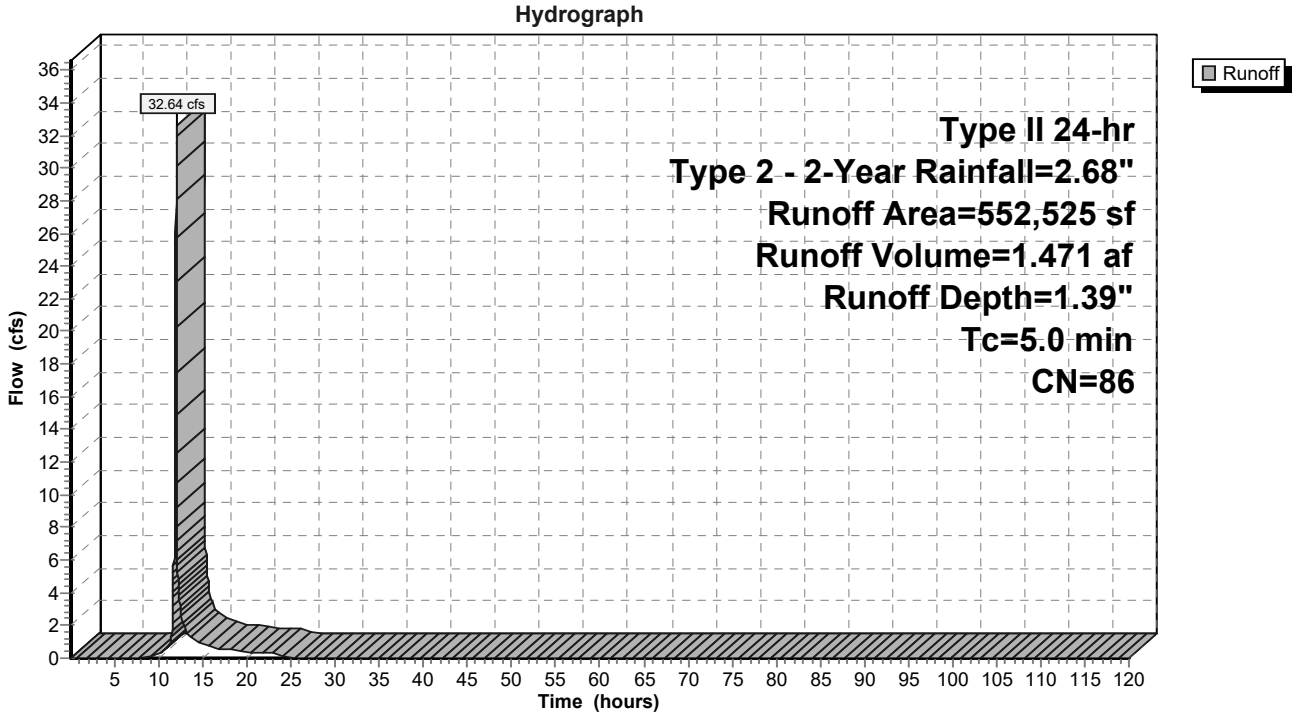
Runoff = 32.64 cfs @ 11.96 hrs, Volume= 1.471 af, Depth= 1.39"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.01	**0.22**
12.01	1.78	0.69	**25.73**
14.01	2.20	1.00	1.03
16.01	2.36	1.13	0.65
18.01	2.47	1.22	0.51
20.01	2.55	1.29	0.37
22.01	**2.62**	**1.34**	0.34
24.01	**2.68**	**1.39**	0.31
26.01	2.68	1.39	0.00
28.01	2.68	1.39	0.00
30.01	2.68	1.39	0.00
32.01	2.68	1.39	0.00
34.01	2.68	1.39	0.00
36.01	2.68	1.39	0.00
38.01	2.68	1.39	0.00
40.01	2.68	1.39	0.00
42.01	2.68	1.39	0.00
44.01	2.68	1.39	0.00
46.01	2.68	1.39	0.00
48.01	2.68	1.39	0.00
50.01	2.68	1.39	0.00
52.01	2.68	1.39	0.00
54.01	2.68	1.39	0.00
56.01	2.68	1.39	0.00
58.01	2.68	1.39	0.00
60.01	2.68	1.39	0.00
62.01	2.68	1.39	0.00
64.01	2.68	1.39	0.00
66.01	2.68	1.39	0.00
68.01	2.68	1.39	0.00
70.01	2.68	1.39	0.00
72.01	2.68	1.39	0.00
74.01	2.68	1.39	0.00
76.01	2.68	1.39	0.00
78.01	2.68	1.39	0.00
80.01	2.68	1.39	0.00
82.01	2.68	1.39	0.00
84.01	2.68	1.39	0.00
86.01	2.68	1.39	0.00
88.01	2.68	1.39	0.00
90.01	2.68	1.39	0.00
92.01	2.68	1.39	0.00
94.01	2.68	1.39	0.00
96.01	2.68	1.39	0.00
98.01	2.68	1.39	0.00
100.01	2.68	1.39	0.00
102.01	2.68	1.39	0.00
104.01	2.68	1.39	0.00
106.01	2.68	1.39	0.00
108.01	2.68	1.39	0.00
110.01	2.68	1.39	0.00
112.01	2.68	1.39	0.00
114.01	2.68	1.39	0.00
116.01	2.68	1.39	0.00
118.01	2.68	1.39	0.00

Summary for Subcatchment 400A: 400A

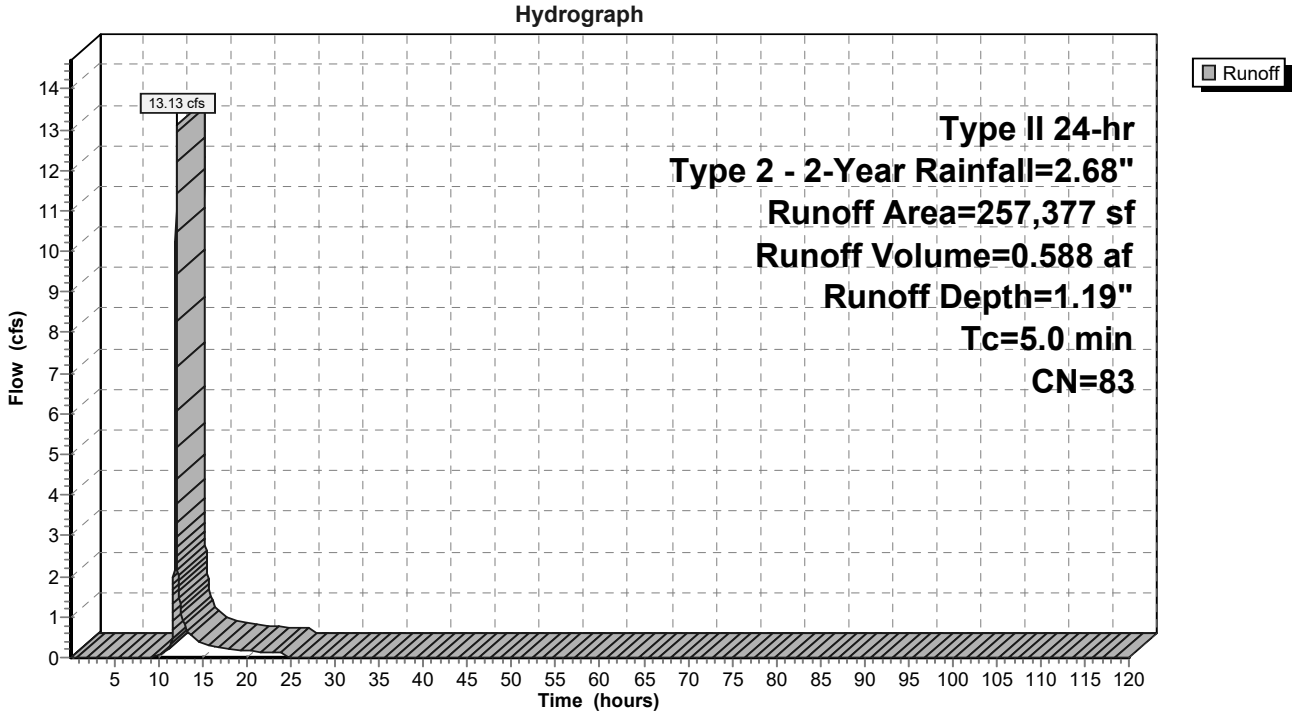
Runoff = 13.13 cfs @ 11.96 hrs, Volume= 0.588 af, Depth= 1.19"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.00	**0.04**
12.01	1.78	0.55	**10.49**
14.01	2.20	0.83	0.44
16.01	2.36	0.95	0.28
18.01	2.47	1.03	0.22
20.01	2.55	1.10	0.16
22.01	**2.62**	**1.15**	0.15
24.01	**2.68**	**1.19**	0.14
26.01	2.68	1.19	0.00
28.01	2.68	1.19	0.00
30.01	2.68	1.19	0.00
32.01	2.68	1.19	0.00
34.01	2.68	1.19	0.00
36.01	2.68	1.19	0.00
38.01	2.68	1.19	0.00
40.01	2.68	1.19	0.00
42.01	2.68	1.19	0.00
44.01	2.68	1.19	0.00
46.01	2.68	1.19	0.00
48.01	2.68	1.19	0.00
50.01	2.68	1.19	0.00
52.01	2.68	1.19	0.00
54.01	2.68	1.19	0.00
56.01	2.68	1.19	0.00
58.01	2.68	1.19	0.00
60.01	2.68	1.19	0.00
62.01	2.68	1.19	0.00
64.01	2.68	1.19	0.00
66.01	2.68	1.19	0.00
68.01	2.68	1.19	0.00
70.01	2.68	1.19	0.00
72.01	2.68	1.19	0.00
74.01	2.68	1.19	0.00
76.01	2.68	1.19	0.00
78.01	2.68	1.19	0.00
80.01	2.68	1.19	0.00
82.01	2.68	1.19	0.00
84.01	2.68	1.19	0.00
86.01	2.68	1.19	0.00
88.01	2.68	1.19	0.00
90.01	2.68	1.19	0.00
92.01	2.68	1.19	0.00
94.01	2.68	1.19	0.00
96.01	2.68	1.19	0.00
98.01	2.68	1.19	0.00
100.01	2.68	1.19	0.00
102.01	2.68	1.19	0.00
104.01	2.68	1.19	0.00
106.01	2.68	1.19	0.00
108.01	2.68	1.19	0.00
110.01	2.68	1.19	0.00
112.01	2.68	1.19	0.00
114.01	2.68	1.19	0.00
116.01	2.68	1.19	0.00
118.01	2.68	1.19	0.00

Summary for Subcatchment 500A: 500A

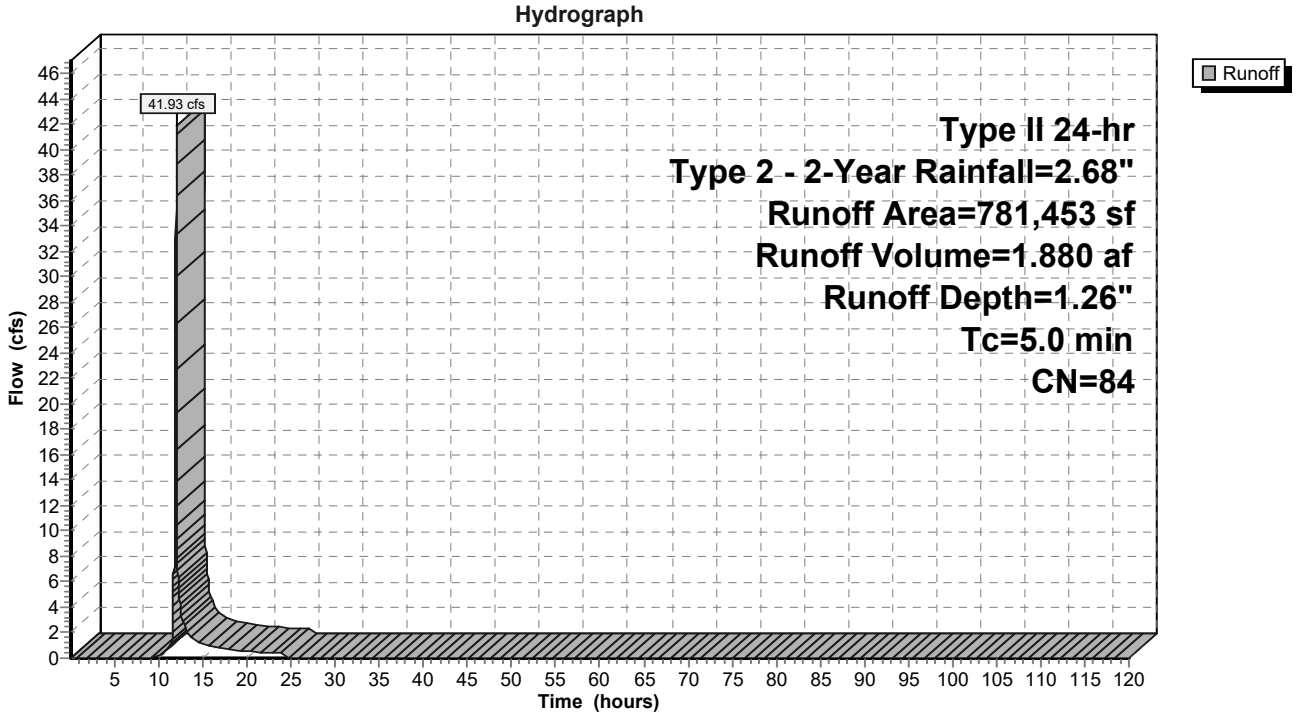
Runoff = 41.93 cfs @ 11.96 hrs, Volume= 1.880 af, Depth= 1.26"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 2-Year Rainfall=2.68"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.06	0.00	0.00
4.01	0.13	0.00	0.00
6.01	0.21	0.00	0.00
8.01	0.32	0.00	0.00
10.01	0.49	0.01	**0.18**
12.01	1.78	0.59	**33.35**
14.01	2.20	0.89	1.37
16.01	2.36	1.01	0.86
18.01	2.47	1.09	0.68
20.01	2.55	1.16	0.50
22.01	**2.62**	**1.21**	0.46
24.01	**2.68**	**1.26**	0.42
26.01	2.68	1.26	0.00
28.01	2.68	1.26	0.00
30.01	2.68	1.26	0.00
32.01	2.68	1.26	0.00
34.01	2.68	1.26	0.00
36.01	2.68	1.26	0.00
38.01	2.68	1.26	0.00
40.01	2.68	1.26	0.00
42.01	2.68	1.26	0.00
44.01	2.68	1.26	0.00
46.01	2.68	1.26	0.00
48.01	2.68	1.26	0.00
50.01	2.68	1.26	0.00
52.01	2.68	1.26	0.00
54.01	2.68	1.26	0.00
56.01	2.68	1.26	0.00
58.01	2.68	1.26	0.00
60.01	2.68	1.26	0.00
62.01	2.68	1.26	0.00
64.01	2.68	1.26	0.00
66.01	2.68	1.26	0.00
68.01	2.68	1.26	0.00
70.01	2.68	1.26	0.00
72.01	2.68	1.26	0.00
74.01	2.68	1.26	0.00
76.01	2.68	1.26	0.00
78.01	2.68	1.26	0.00
80.01	2.68	1.26	0.00
82.01	2.68	1.26	0.00
84.01	2.68	1.26	0.00
86.01	2.68	1.26	0.00
88.01	2.68	1.26	0.00
90.01	2.68	1.26	0.00
92.01	2.68	1.26	0.00
94.01	2.68	1.26	0.00
96.01	2.68	1.26	0.00
98.01	2.68	1.26	0.00
100.01	2.68	1.26	0.00
102.01	2.68	1.26	0.00
104.01	2.68	1.26	0.00
106.01	2.68	1.26	0.00
108.01	2.68	1.26	0.00
110.01	2.68	1.26	0.00
112.01	2.68	1.26	0.00
114.01	2.68	1.26	0.00
116.01	2.68	1.26	0.00
118.01	2.68	1.26	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 1.26" for Type 2 - 2-Year event
Inflow = 57.65 cfs @ 11.96 hrs, Volume= 2.584 af
Outflow = 0.61 cfs @ 22.77 hrs, Volume= 1.637 af, Atten= 99%, Lag= 648.4 min
Primary = 0.61 cfs @ 22.77 hrs, Volume= 1.637 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 880.17' @ 22.77 hrs Surf.Area= 80,668 sf Storage= 296,128 cf (88,640 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,339.5 min (2,173.4 - 833.8)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

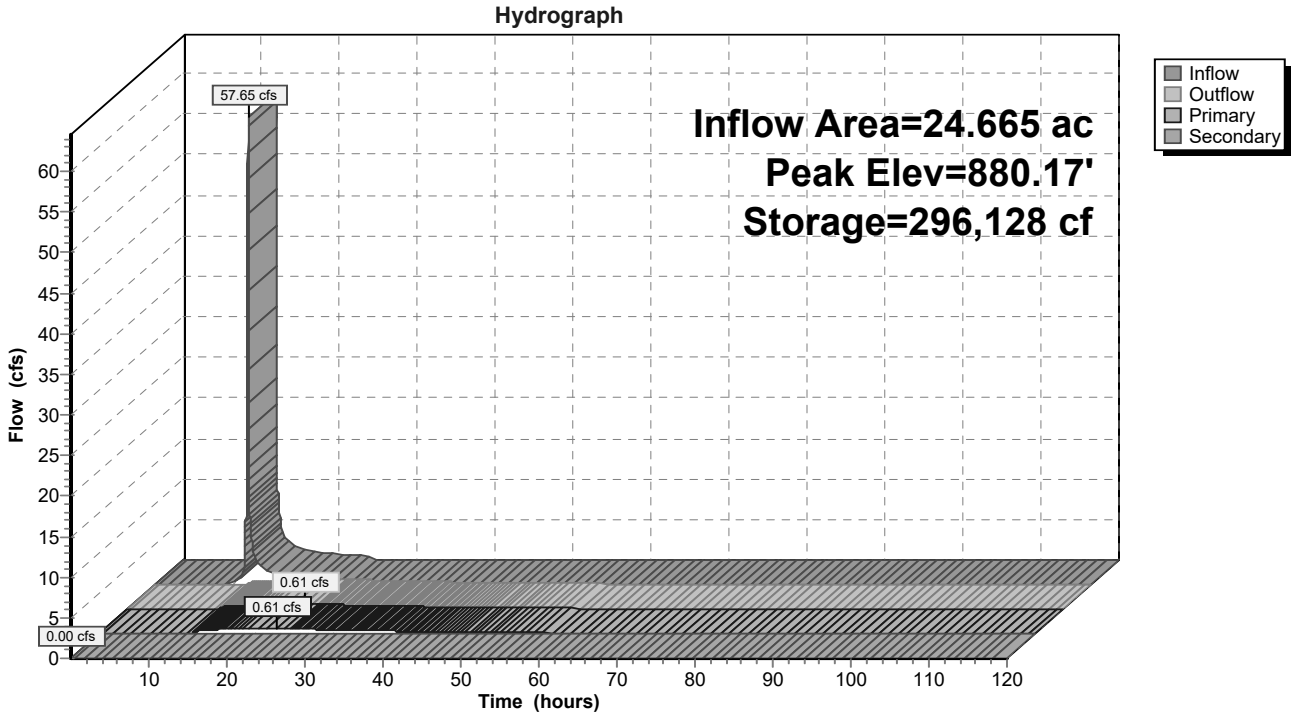
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.62 cfs @ 22.77 hrs HW=880.17' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 0.62 cfs of 6.23 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.62 cfs @ 3.13 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow
Outflow
Primary
Secondary
Inflow Area=24.665 ac
Peak Elev=880.17'
Storage=296,128 cf
57.65 cfs
0.61 cfs
0.61 cfs
0.00 cfs
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.00	207,488	879.00	0.00	0.00	0.00
10.01	**0.25**	207,909	879.01	0.00	0.00	0.00
15.01	**1.52**	288,033	880.07	0.54	0.54	0.00
20.01	0.69	**295,802**	**880.17**	**0.61**	**0.61**	0.00
25.01	0.00	**294,035**	**880.15**	**0.59**	**0.59**	0.00
30.01	0.00	284,232	880.02	0.49	0.49	0.00
35.01	0.00	276,285	879.92	0.39	0.39	0.00
40.01	0.00	270,180	879.85	0.29	0.29	0.00
45.01	0.00	265,680	879.79	0.21	0.21	0.00
50.01	0.00	262,297	879.74	0.16	0.16	0.00
55.01	0.00	259,729	879.71	0.12	0.12	0.00
60.01	0.00	257,750	879.68	0.10	0.10	0.00
65.01	0.00	256,128	879.66	0.08	0.08	0.00
70.01	0.00	254,791	879.65	0.07	0.07	0.00
75.01	0.00	253,689	879.63	0.06	0.06	0.00
80.01	0.00	252,780	879.62	0.05	0.05	0.00
85.01	0.00	252,030	879.61	0.04	0.04	0.00
90.01	0.00	251,412	879.60	0.03	0.03	0.00
95.01	0.00	250,882	879.59	0.03	0.03	0.00
100.01	0.00	250,390	879.59	0.03	0.03	0.00
105.01	0.00	249,931	879.58	0.02	0.02	0.00
110.01	0.00	249,505	879.58	0.02	0.02	0.00
115.01	0.00	249,108	879.57	0.02	0.02	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 1.77" for Type 2 - 2-Year event
Inflow = 16.46 cfs @ 11.96 hrs, Volume= 0.765 af
Outflow = 0.44 cfs @ 14.28 hrs, Volume= 0.506 af, Atten= 97%, Lag= 139.5 min
Primary = 0.44 cfs @ 14.28 hrs, Volume= 0.506 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 875.97' @ 14.28 hrs Surf.Area= 24,107 sf Storage= 93,135 cf (22,218 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 642.1 min (1,447.4 - 805.3)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

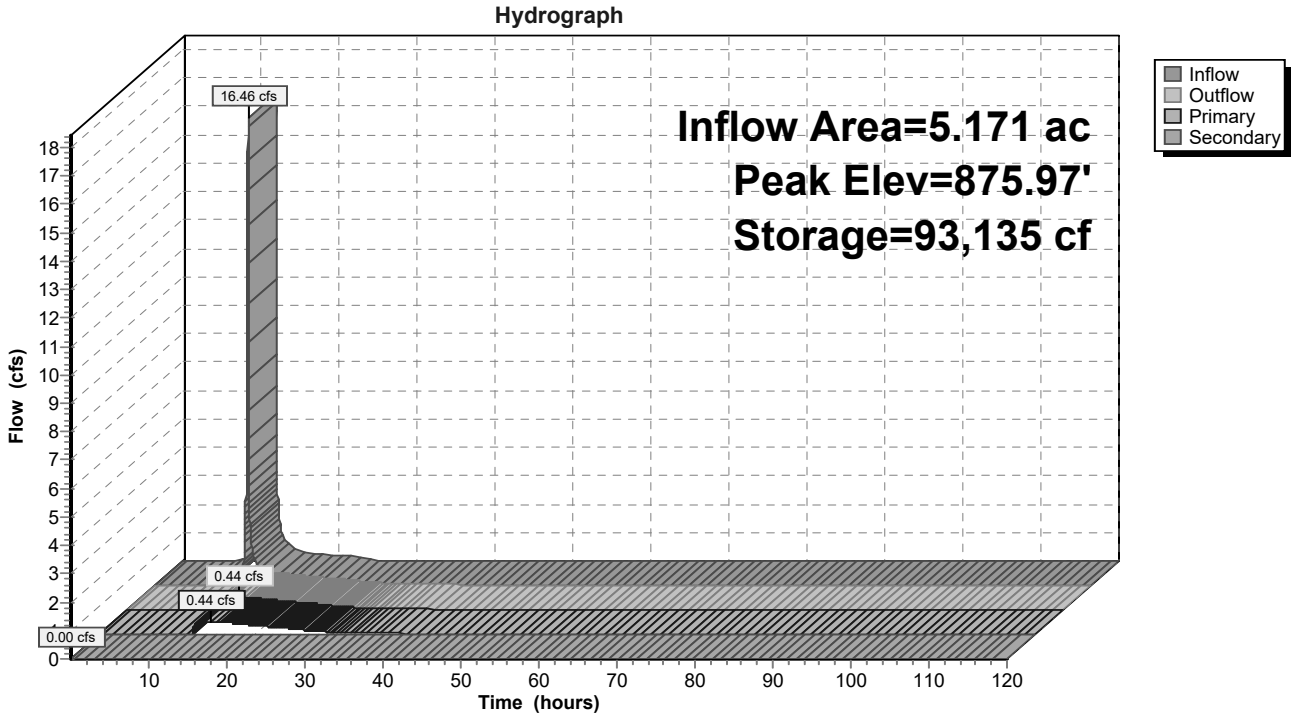
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.45 cfs @ 14.28 hrs HW=875.97' (Free Discharge)
└─**1=RCP_Round 12"** (Passes 0.45 cfs of 2.30 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 0.45 cfs @ 2.33 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.00	70,918	875.00	0.00	0.00	0.00
10.01	**0.21**	**72,079**	**875.05**	**0.00**	**0.00**	0.00
15.01	**0.38**	**93,059**	**875.97**	**0.44**	**0.44**	0.00
20.01	0.17	90,647	875.87	0.32	0.32	0.00
25.01	0.00	88,292	875.77	0.19	0.19	0.00
30.01	0.00	86,000	875.67	0.08	0.08	0.00
35.01	0.00	84,858	875.62	0.05	0.05	0.00
40.01	0.00	84,194	875.59	0.03	0.03	0.00
45.01	0.00	83,801	875.57	0.02	0.02	0.00
50.01	0.00	83,502	875.56	0.02	0.02	0.00
55.01	0.00	83,254	875.55	0.01	0.01	0.00
60.01	0.00	83,050	875.54	0.01	0.01	0.00
65.01	0.00	82,881	875.53	0.01	0.01	0.00
70.01	0.00	82,742	875.53	0.01	0.01	0.00
75.01	0.00	82,626	875.52	0.01	0.01	0.00
80.01	0.00	82,531	875.52	0.00	0.00	0.00
85.01	0.00	82,452	875.52	0.00	0.00	0.00
90.01	0.00	82,387	875.51	0.00	0.00	0.00
95.01	0.00	82,333	875.51	0.00	0.00	0.00
100.01	0.00	82,289	875.51	0.00	0.00	0.00
105.01	0.00	82,252	875.51	0.00	0.00	0.00
110.01	0.00	82,222	875.51	0.00	0.00	0.00
115.01	0.00	82,197	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 1.20" for Type 2 - 2-Year event
Inflow = 50.95 cfs @ 11.96 hrs, Volume= 2.463 af
Outflow = 0.27 cfs @ 24.08 hrs, Volume= 0.919 af, Atten= 99%, Lag= 727.0 min
Primary = 0.27 cfs @ 24.08 hrs, Volume= 0.919 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 875.83' @ 24.08 hrs Surf.Area= 119,567 sf Storage= 484,308 cf (95,224 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 2,009.9 min (2,931.8 - 921.9)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

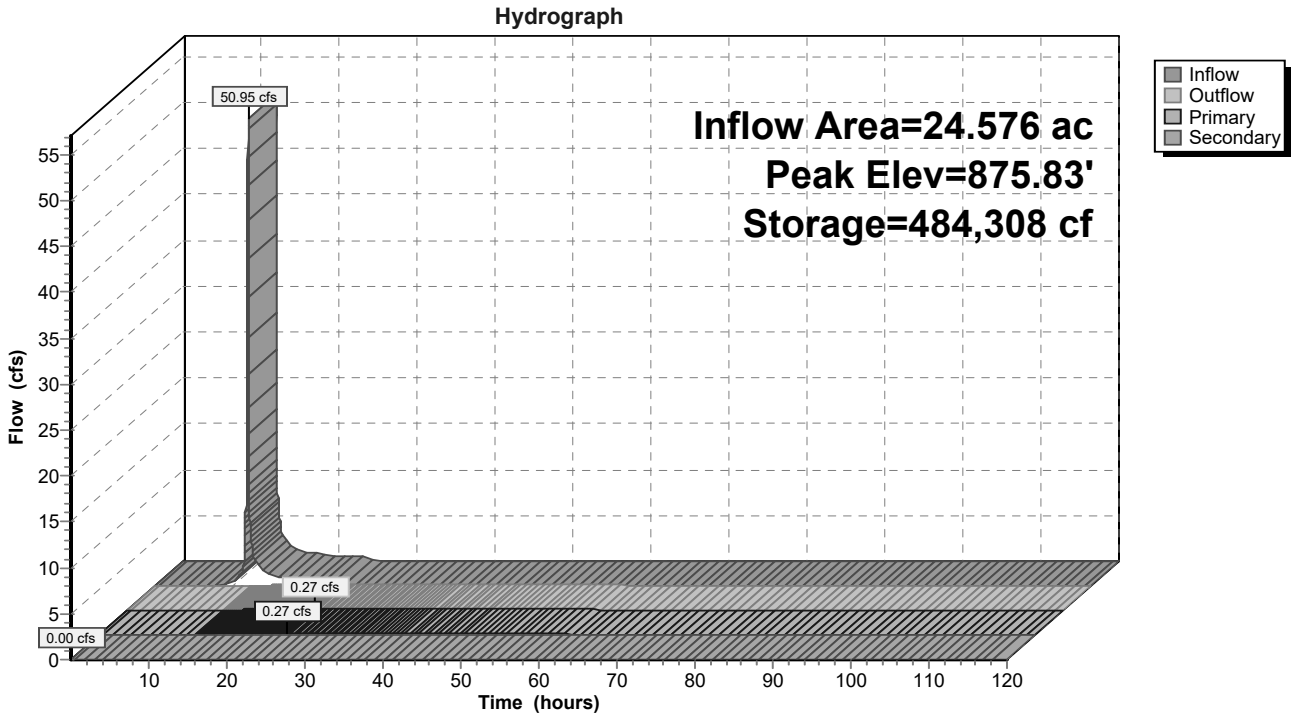
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.27 cfs @ 24.08 hrs HW=875.83' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 0.27 cfs of 3.36 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 0.27 cfs @ 1.95 fps)
  └─**3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.00	389,084	875.00	0.00	0.00	0.00
10.01	**0.43**	390,724	875.01	0.00	0.00	0.00
15.01	**1.26**	466,848	875.68	0.10	0.10	0.00
20.01	0.61	**479,449**	**875.79**	**0.22**	**0.22**	0.00
25.01	0.07	**483,689**	**875.82**	**0.26**	**0.26**	0.00
30.01	0.05	480,349	875.80	0.22	0.22	0.00
35.01	0.03	477,316	875.77	0.19	0.19	0.00
40.01	0.03	474,635	875.75	0.17	0.17	0.00
45.01	0.02	472,287	875.73	0.14	0.14	0.00
50.01	0.02	470,229	875.71	0.13	0.13	0.00
55.01	0.02	468,426	875.69	0.11	0.11	0.00
60.01	0.01	466,850	875.68	0.10	0.10	0.00
65.01	0.01	465,474	875.67	0.08	0.08	0.00
70.01	0.01	464,239	875.66	0.08	0.08	0.00
75.01	0.01	463,103	875.65	0.07	0.07	0.00
80.01	0.01	462,059	875.64	0.06	0.06	0.00
85.01	0.01	461,102	875.63	0.06	0.06	0.00
90.01	0.00	460,227	875.63	0.05	0.05	0.00
95.01	0.00	459,427	875.62	0.05	0.05	0.00
100.01	0.00	458,696	875.61	0.04	0.04	0.00
105.01	0.00	458,031	875.61	0.04	0.04	0.00
110.01	0.00	457,425	875.60	0.03	0.03	0.00
115.01	0.00	456,874	875.60	0.03	0.03	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 1.19" for Type 2 - 2-Year event
Inflow = 13.13 cfs @ 11.96 hrs, Volume= 0.588 af
Outflow = 0.07 cfs @ 24.07 hrs, Volume= 0.148 af, Atten= 99%, Lag= 726.2 min
Primary = 0.07 cfs @ 24.07 hrs, Volume= 0.148 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 877.66' @ 24.07 hrs Surf.Area= 38,031 sf Storage= 154,224 cf (24,239 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,672.2 min (2,509.6 - 837.4)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

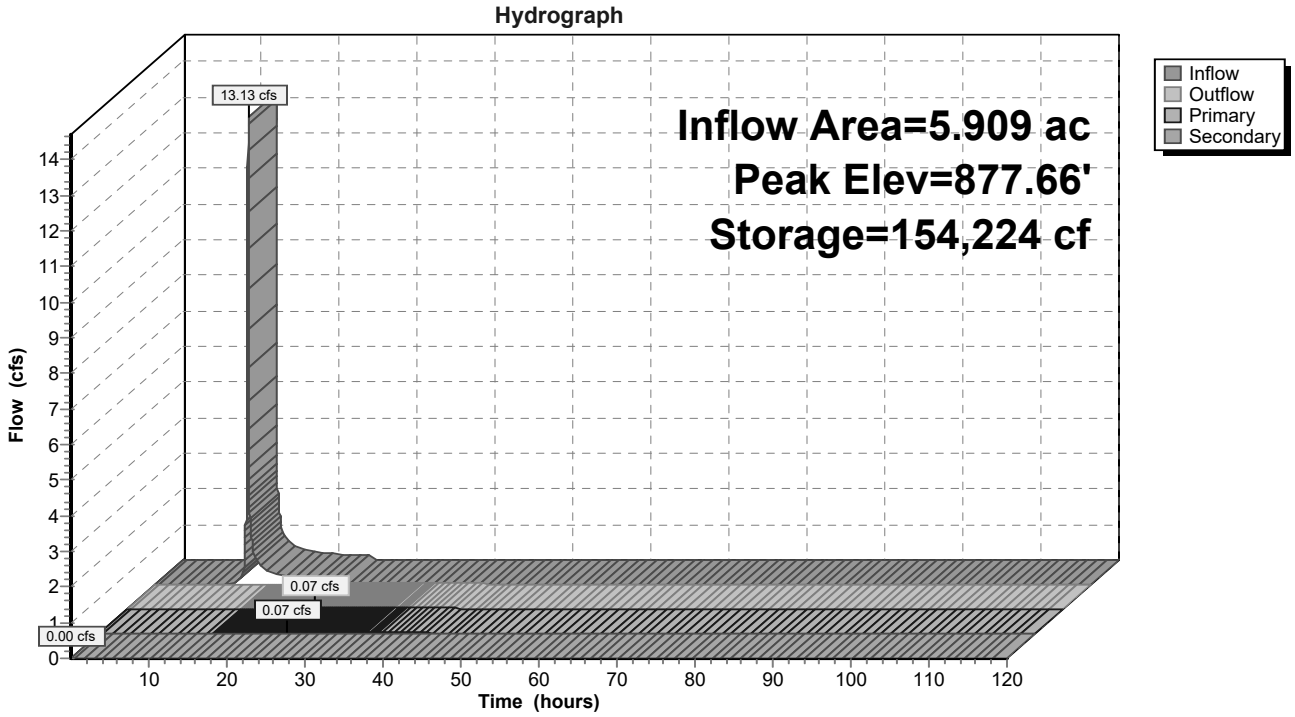
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.07 cfs @ 24.07 hrs HW=877.66' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.07 cfs of 2.14 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.07 cfs @ 1.34 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow Area=5.909 ac
Peak Elev=877.66'
Storage=154,224 cf
13.13 cfs
0.07 cfs
0.07 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.04**	130,032	877.00	0.00	0.00	0.00
15.01	**0.35**	149,161	877.52	0.00	0.00	0.00
20.01	0.16	**152,978**	**877.62**	**0.05**	**0.05**	0.00
25.01	0.00	**153,995**	**877.65**	**0.07**	**0.07**	0.00
30.01	0.00	152,963	877.62	0.05	0.05	0.00
35.01	0.00	152,248	877.60	0.03	0.03	0.00
40.01	0.00	151,726	877.59	0.03	0.03	0.00
45.01	0.00	151,289	877.58	0.02	0.02	0.00
50.01	0.00	150,921	877.57	0.02	0.02	0.00
55.01	0.00	150,611	877.56	0.02	0.02	0.00
60.01	0.00	150,351	877.55	0.01	0.01	0.00
65.01	0.00	150,131	877.55	0.01	0.01	0.00
70.01	0.00	149,946	877.54	0.01	0.01	0.00
75.01	0.00	149,790	877.54	0.01	0.01	0.00
80.01	0.00	149,659	877.54	0.01	0.01	0.00
85.01	0.00	149,549	877.53	0.01	0.01	0.00
90.01	0.00	149,456	877.53	0.00	0.00	0.00
95.01	0.00	149,378	877.53	0.00	0.00	0.00
100.01	0.00	149,312	877.53	0.00	0.00	0.00
105.01	0.00	149,256	877.52	0.00	0.00	0.00
110.01	0.00	149,209	877.52	0.00	0.00	0.00
115.01	0.00	149,170	877.52	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 1.26" for Type 2 - 2-Year event
Inflow = 41.93 cfs @ 11.96 hrs, Volume= 1.880 af
Outflow = 0.51 cfs @ 19.89 hrs, Volume= 1.145 af, Atten= 99%, Lag= 475.4 min
Primary = 0.51 cfs @ 19.89 hrs, Volume= 1.145 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 900.04' @ 19.89 hrs Surf.Area= 63,222 sf Storage= 259,307 cf (62,893 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,209.1 min (2,042.9 - 833.8)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

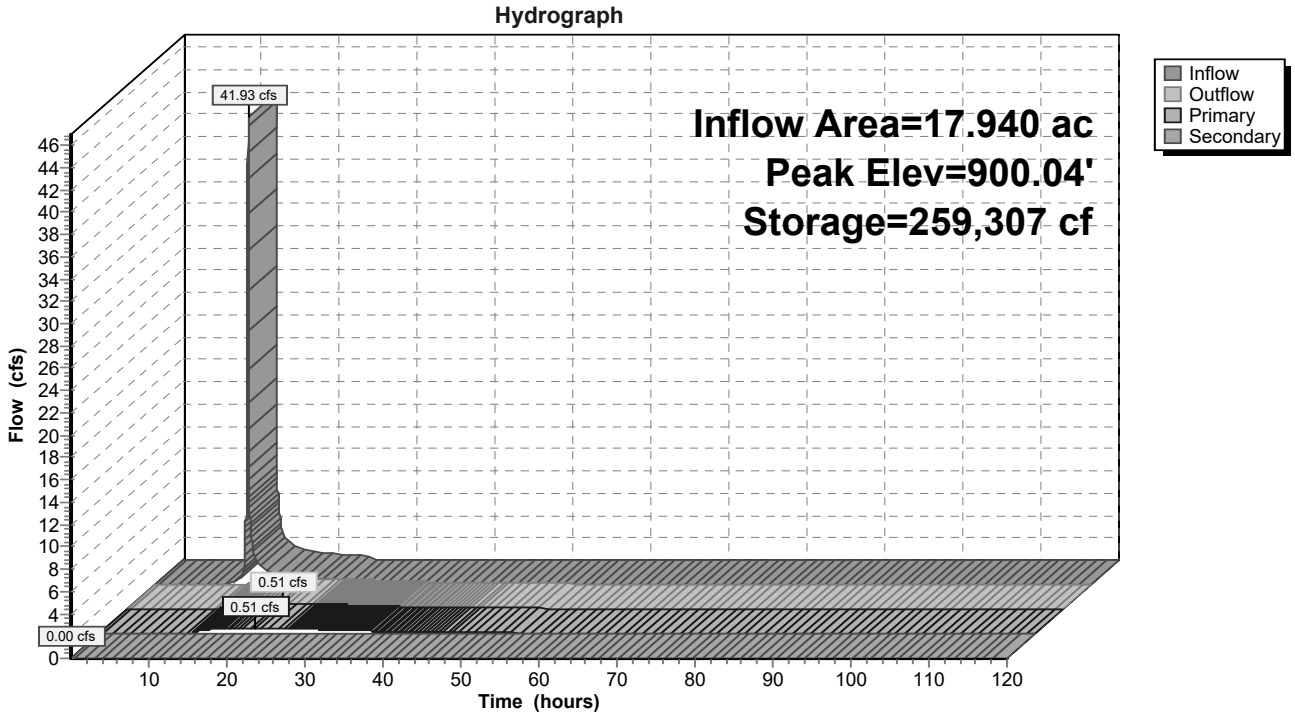
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.51 cfs @ 19.89 hrs HW=900.04' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 0.51 cfs of 5.09 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.51 cfs @ 2.61 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=900.04'
Storage=259,307 cf
Inflow
Outflow
Primary
Secondary
41.93 cfs
0.51 cfs
0.51 cfs
0.00 cfs
Flow (cfs)
Time (hours)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 500: 500

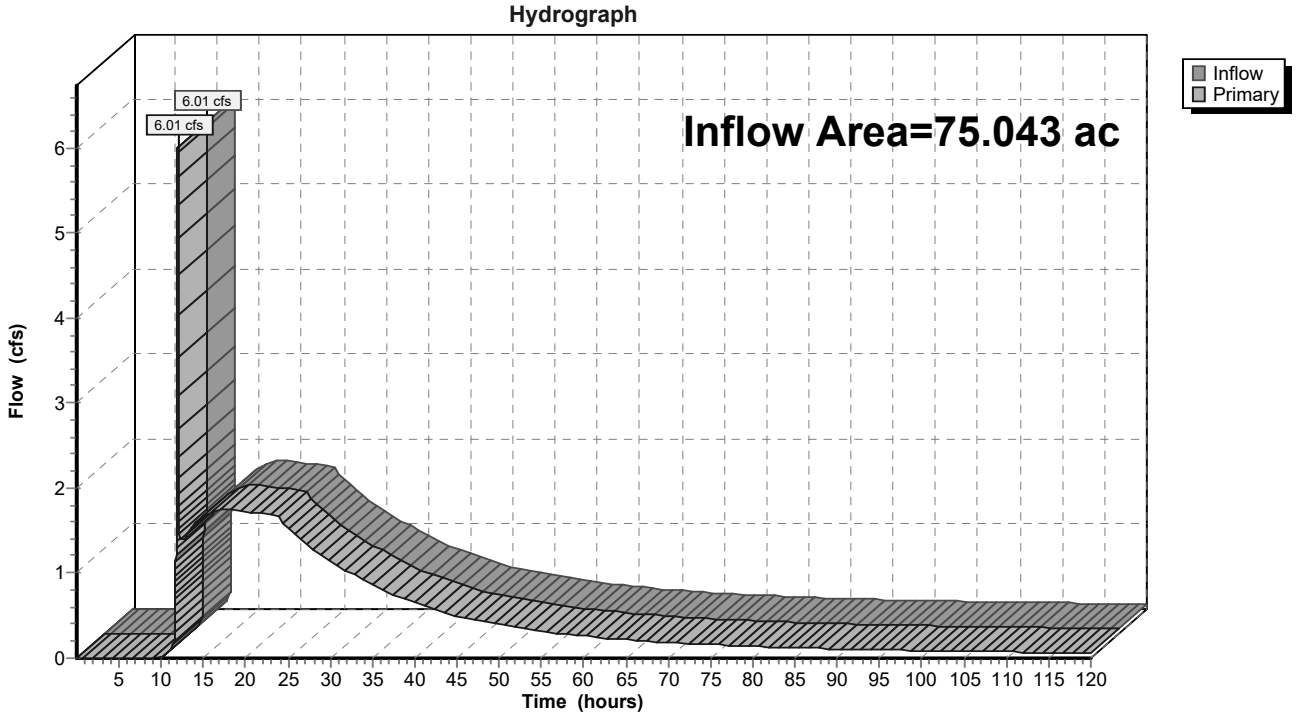
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.00	196,414	899.00	0.00	0.00	0.00
10.01	**0.18**	196,720	899.01	0.00	0.00	0.00
15.01	**1.11**	**254,829**	**899.97**	**0.44**	**0.44**	0.00
20.01	0.50	**259,311**	**900.04**	**0.51**	**0.51**	0.00
25.01	0.00	256,977	900.01	0.48	0.48	0.00
30.01	0.00	249,577	899.89	0.35	0.35	0.00
35.01	0.00	244,396	899.80	0.24	0.24	0.00
40.01	0.00	240,815	899.75	0.17	0.17	0.00
45.01	0.00	238,277	899.71	0.12	0.12	0.00
50.01	0.00	236,415	899.68	0.09	0.09	0.00
55.01	0.00	234,955	899.65	0.07	0.07	0.00
60.01	0.00	233,806	899.63	0.06	0.06	0.00
65.01	0.00	232,904	899.62	0.04	0.04	0.00
70.01	0.00	232,194	899.61	0.03	0.03	0.00
75.01	0.00	231,631	899.60	0.03	0.03	0.00
80.01	0.00	231,130	899.59	0.03	0.03	0.00
85.01	0.00	230,673	899.58	0.02	0.02	0.00
90.01	0.00	230,254	899.57	0.02	0.02	0.00
95.01	0.00	229,872	899.57	0.02	0.02	0.00
100.01	0.00	229,522	899.56	0.02	0.02	0.00
105.01	0.00	229,202	899.56	0.02	0.02	0.00
110.01	0.00	228,910	899.55	0.02	0.02	0.00
115.01	0.00	228,643	899.55	0.01	0.01	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 0.72" for Type 2 - 2-Year event
Inflow = 6.01 cfs @ 11.97 hrs, Volume= 4.475 af
Primary = 6.01 cfs @ 11.97 hrs, Volume= 4.475 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	**0.02**	0.00	**0.02**
12.01	**4.95**	0.00	**4.95**
14.01	1.58	0.00	1.58
16.01	1.72	0.00	1.72
18.01	1.75	0.00	1.75
20.01	1.73	0.00	1.73
22.01	1.70	0.00	1.70
24.01	1.67	0.00	1.67
26.01	1.44	0.00	1.44
28.01	1.28	0.00	1.28
30.01	1.15	0.00	1.15
32.01	1.03	0.00	1.03
34.01	0.92	0.00	0.92
36.01	0.82	0.00	0.82
38.01	0.73	0.00	0.73
40.01	0.65	0.00	0.65
42.01	0.58	0.00	0.58
44.01	0.52	0.00	0.52
46.01	0.47	0.00	0.47
48.01	0.43	0.00	0.43
50.01	0.40	0.00	0.40
52.01	0.36	0.00	0.36
54.01	0.33	0.00	0.33
56.01	0.30	0.00	0.30
58.01	0.28	0.00	0.28
60.01	0.26	0.00	0.26
62.01	0.24	0.00	0.24
64.01	0.23	0.00	0.23
66.01	0.21	0.00	0.21
68.01	0.20	0.00	0.20
70.01	0.18	0.00	0.18
72.01	0.17	0.00	0.17
74.01	0.16	0.00	0.16
76.01	0.15	0.00	0.15
78.01	0.15	0.00	0.15
80.01	0.14	0.00	0.14
82.01	0.13	0.00	0.13
84.01	0.13	0.00	0.13
86.01	0.12	0.00	0.12
88.01	0.11	0.00	0.11
90.01	0.11	0.00	0.11
92.01	0.10	0.00	0.10
94.01	0.10	0.00	0.10
96.01	0.10	0.00	0.10
98.01	0.09	0.00	0.09
100.01	0.09	0.00	0.09
102.01	0.09	0.00	0.09
104.01	0.08	0.00	0.08
106.01	0.08	0.00	0.08
108.01	0.08	0.00	0.08
110.01	0.07	0.00	0.07
112.01	0.07	0.00	0.07
114.01	0.07	0.00	0.07
116.01	0.07	0.00	0.07
118.01	0.06	0.00	0.06

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=1.66"
Tc=5.0 min CN=83 Runoff=7.81 cfs 0.352 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=1.66"
Tc=5.0 min CN=83 Runoff=0.45 cfs 0.020 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=1.73"
Tc=5.0 min CN=84 Runoff=78.88 cfs 3.561 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=2.31"
Tc=5.0 min CN=91 Runoff=21.13 cfs 0.997 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=2.22"
Tc=5.0 min CN=90 Runoff=23.72 cfs 1.109 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=1.89"
Tc=5.0 min CN=86 Runoff=43.82 cfs 1.995 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=1.66"
Tc=5.0 min CN=83 Runoff=18.14 cfs 0.817 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=1.73"
Tc=5.0 min CN=84 Runoff=57.37 cfs 2.590 af

Pond 100: 100 Peak Elev=880.56' Storage=328,080 cf Inflow=78.88 cfs 3.561 af
Primary=0.85 cfs 2.593 af Secondary=0.00 cfs 0.000 af Outflow=0.85 cfs 2.593 af

Pond 200: 200 Peak Elev=876.23' Storage=99,426 cf Inflow=21.13 cfs 0.997 af
Primary=0.65 cfs 0.739 af Secondary=0.00 cfs 0.000 af Outflow=0.65 cfs 0.739 af

Pond 300: 300 Peak Elev=876.06' Storage=512,852 cf Inflow=67.53 cfs 3.479 af
Primary=0.53 cfs 1.881 af Secondary=0.00 cfs 0.000 af Outflow=0.53 cfs 1.881 af

Pond 400: 400 Peak Elev=877.78' Storage=158,867 cf Inflow=18.14 cfs 0.817 af
Primary=0.20 cfs 0.375 af Secondary=0.00 cfs 0.000 af Outflow=0.20 cfs 0.375 af

Pond 500: 500 Peak Elev=900.38' Storage=280,704 cf Inflow=57.37 cfs 2.590 af
Primary=0.75 cfs 1.846 af Secondary=0.00 cfs 0.000 af Outflow=0.75 cfs 1.846 af

Link 1: OFFSITE Inflow=8.75 cfs 7.430 af
Primary=8.75 cfs 7.430 af

Total Runoff Area = 75.043 ac Runoff Volume = 11.442 af Average Runoff Depth = 1.83"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

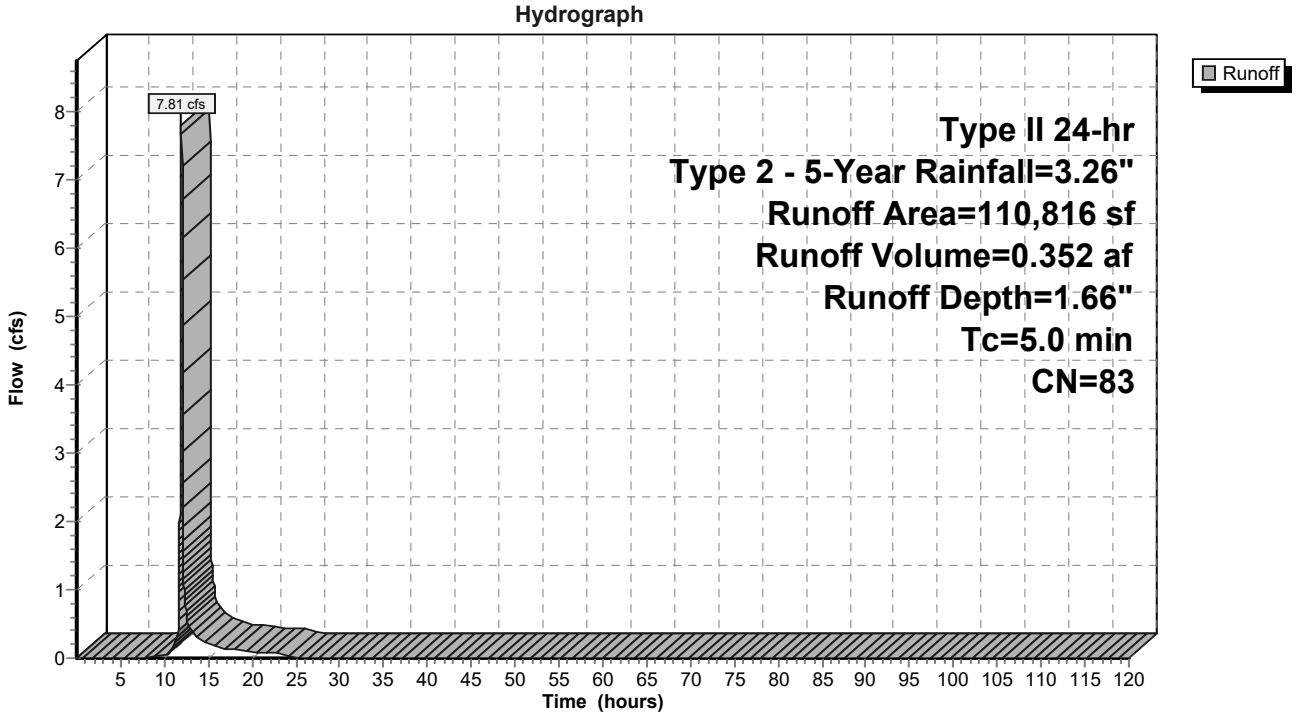
Runoff = 7.81 cfs @ 11.96 hrs, Volume= 0.352 af, Depth= 1.66"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.01	**0.05**
12.01	2.17	0.81	**6.17**
14.01	2.67	1.19	0.25
16.01	2.87	1.34	0.16
18.01	3.00	1.45	0.12
20.01	3.10	1.53	0.09
22.01	**3.19**	**1.60**	0.08
24.01	**3.26**	**1.66**	0.08
26.01	3.26	1.66	0.00
28.01	3.26	1.66	0.00
30.01	3.26	1.66	0.00
32.01	3.26	1.66	0.00
34.01	3.26	1.66	0.00
36.01	3.26	1.66	0.00
38.01	3.26	1.66	0.00
40.01	3.26	1.66	0.00
42.01	3.26	1.66	0.00
44.01	3.26	1.66	0.00
46.01	3.26	1.66	0.00
48.01	3.26	1.66	0.00
50.01	3.26	1.66	0.00
52.01	3.26	1.66	0.00
54.01	3.26	1.66	0.00
56.01	3.26	1.66	0.00
58.01	3.26	1.66	0.00
60.01	3.26	1.66	0.00
62.01	3.26	1.66	0.00
64.01	3.26	1.66	0.00
66.01	3.26	1.66	0.00
68.01	3.26	1.66	0.00
70.01	3.26	1.66	0.00
72.01	3.26	1.66	0.00
74.01	3.26	1.66	0.00
76.01	3.26	1.66	0.00
78.01	3.26	1.66	0.00
80.01	3.26	1.66	0.00
82.01	3.26	1.66	0.00
84.01	3.26	1.66	0.00
86.01	3.26	1.66	0.00
88.01	3.26	1.66	0.00
90.01	3.26	1.66	0.00
92.01	3.26	1.66	0.00
94.01	3.26	1.66	0.00
96.01	3.26	1.66	0.00
98.01	3.26	1.66	0.00
100.01	3.26	1.66	0.00
102.01	3.26	1.66	0.00
104.01	3.26	1.66	0.00
106.01	3.26	1.66	0.00
108.01	3.26	1.66	0.00
110.01	3.26	1.66	0.00
112.01	3.26	1.66	0.00
114.01	3.26	1.66	0.00
116.01	3.26	1.66	0.00
118.01	3.26	1.66	0.00

Summary for Subcatchment 2A: 2A

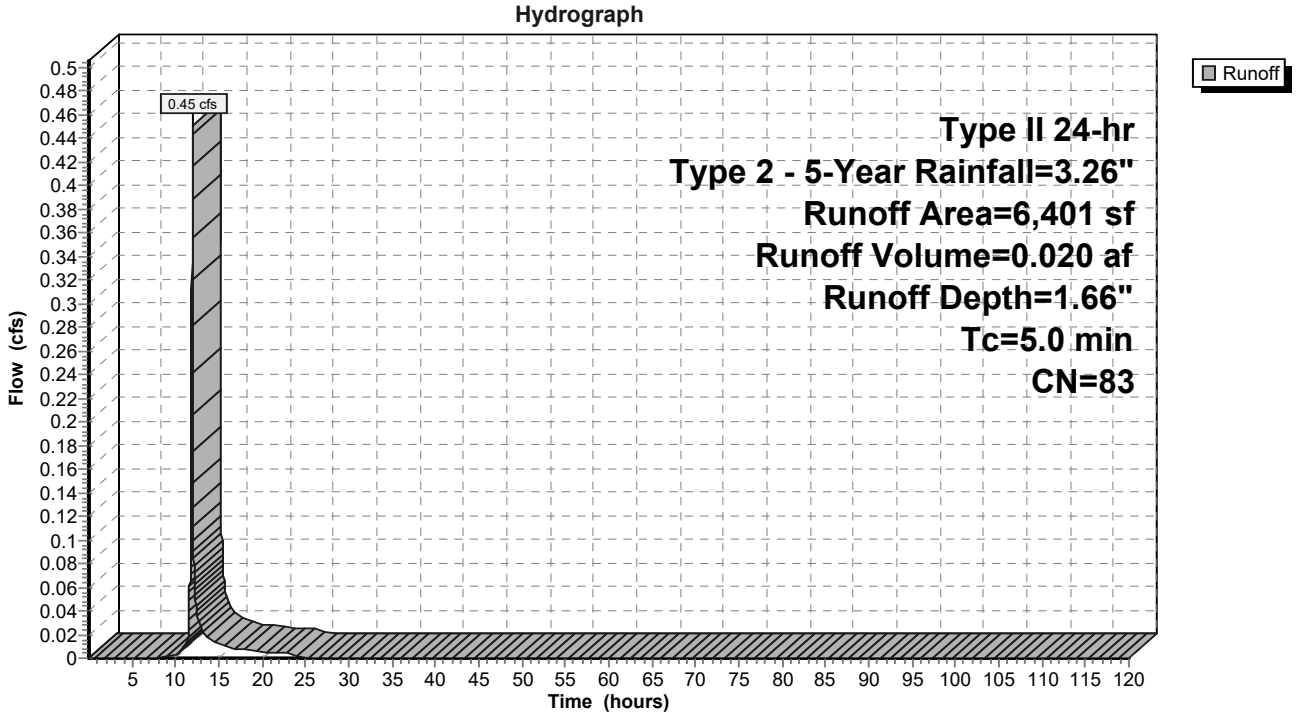
Runoff = 0.45 cfs @ 11.96 hrs, Volume= 0.020 af, Depth= 1.66"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.01	**0.00**
12.01	2.17	0.81	**0.36**
14.01	2.67	1.19	0.01
16.01	2.87	1.34	0.01
18.01	3.00	1.45	0.01
20.01	3.10	1.53	0.01
22.01	**3.19**	**1.60**	0.00
24.01	**3.26**	**1.66**	0.00
26.01	3.26	1.66	0.00
28.01	3.26	1.66	0.00
30.01	3.26	1.66	0.00
32.01	3.26	1.66	0.00
34.01	3.26	1.66	0.00
36.01	3.26	1.66	0.00
38.01	3.26	1.66	0.00
40.01	3.26	1.66	0.00
42.01	3.26	1.66	0.00
44.01	3.26	1.66	0.00
46.01	3.26	1.66	0.00
48.01	3.26	1.66	0.00
50.01	3.26	1.66	0.00
52.01	3.26	1.66	0.00
54.01	3.26	1.66	0.00
56.01	3.26	1.66	0.00
58.01	3.26	1.66	0.00
60.01	3.26	1.66	0.00
62.01	3.26	1.66	0.00
64.01	3.26	1.66	0.00
66.01	3.26	1.66	0.00
68.01	3.26	1.66	0.00
70.01	3.26	1.66	0.00
72.01	3.26	1.66	0.00
74.01	3.26	1.66	0.00
76.01	3.26	1.66	0.00
78.01	3.26	1.66	0.00
80.01	3.26	1.66	0.00
82.01	3.26	1.66	0.00
84.01	3.26	1.66	0.00
86.01	3.26	1.66	0.00
88.01	3.26	1.66	0.00
90.01	3.26	1.66	0.00
92.01	3.26	1.66	0.00
94.01	3.26	1.66	0.00
96.01	3.26	1.66	0.00
98.01	3.26	1.66	0.00
100.01	3.26	1.66	0.00
102.01	3.26	1.66	0.00
104.01	3.26	1.66	0.00
106.01	3.26	1.66	0.00
108.01	3.26	1.66	0.00
110.01	3.26	1.66	0.00
112.01	3.26	1.66	0.00
114.01	3.26	1.66	0.00
116.01	3.26	1.66	0.00
118.01	3.26	1.66	0.00

Summary for Subcatchment 100A: 100A

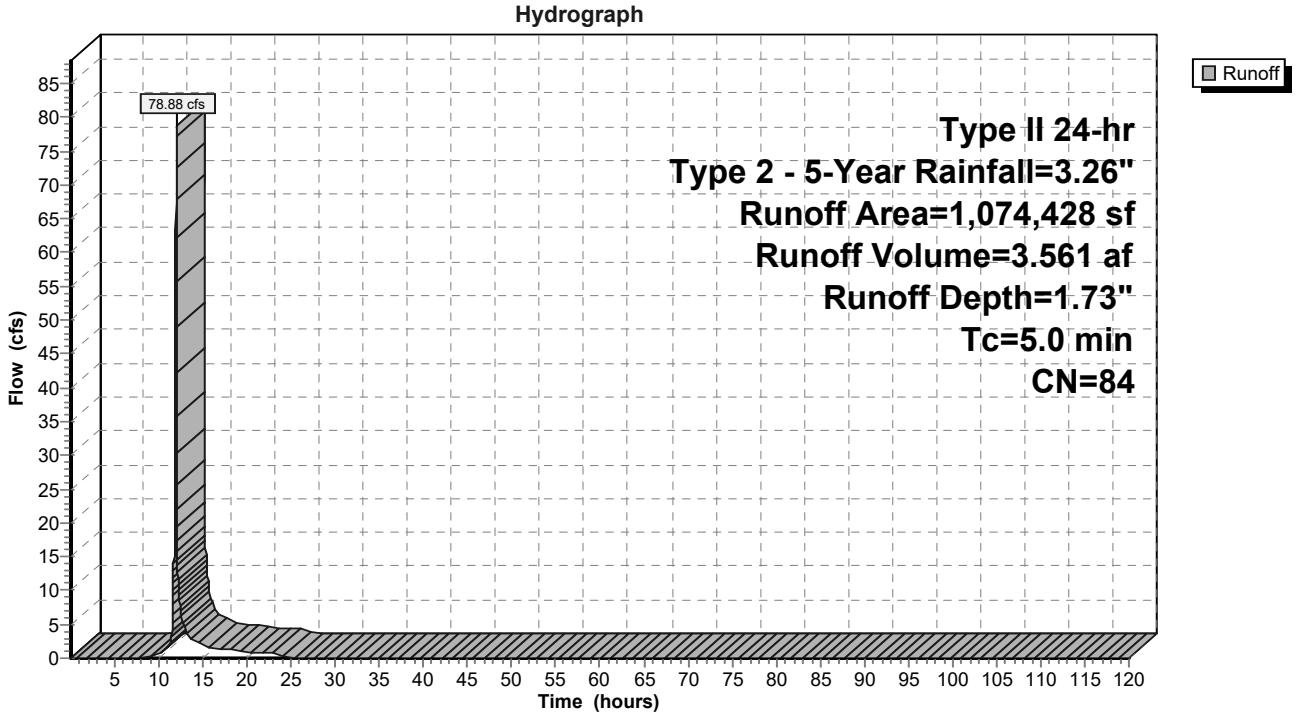
Runoff = 78.88 cfs @ 11.96 hrs, Volume= 3.561 af, Depth= 1.73"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.01
10.01	0.59	0.02	**0.57**
12.01	2.17	0.86	**62.05**
14.01	2.67	1.25	2.47
16.01	2.87	1.41	1.54
18.01	3.00	1.52	1.21
20.01	3.10	1.60	0.89
22.01	**3.19**	**1.67**	0.82
24.01	**3.26**	**1.73**	0.75
26.01	3.26	1.73	0.00
28.01	3.26	1.73	0.00
30.01	3.26	1.73	0.00
32.01	3.26	1.73	0.00
34.01	3.26	1.73	0.00
36.01	3.26	1.73	0.00
38.01	3.26	1.73	0.00
40.01	3.26	1.73	0.00
42.01	3.26	1.73	0.00
44.01	3.26	1.73	0.00
46.01	3.26	1.73	0.00
48.01	3.26	1.73	0.00
50.01	3.26	1.73	0.00
52.01	3.26	1.73	0.00
54.01	3.26	1.73	0.00
56.01	3.26	1.73	0.00
58.01	3.26	1.73	0.00
60.01	3.26	1.73	0.00
62.01	3.26	1.73	0.00
64.01	3.26	1.73	0.00
66.01	3.26	1.73	0.00
68.01	3.26	1.73	0.00
70.01	3.26	1.73	0.00
72.01	3.26	1.73	0.00
74.01	3.26	1.73	0.00
76.01	3.26	1.73	0.00
78.01	3.26	1.73	0.00
80.01	3.26	1.73	0.00
82.01	3.26	1.73	0.00
84.01	3.26	1.73	0.00
86.01	3.26	1.73	0.00
88.01	3.26	1.73	0.00
90.01	3.26	1.73	0.00
92.01	3.26	1.73	0.00
94.01	3.26	1.73	0.00
96.01	3.26	1.73	0.00
98.01	3.26	1.73	0.00
100.01	3.26	1.73	0.00
102.01	3.26	1.73	0.00
104.01	3.26	1.73	0.00
106.01	3.26	1.73	0.00
108.01	3.26	1.73	0.00
110.01	3.26	1.73	0.00
112.01	3.26	1.73	0.00
114.01	3.26	1.73	0.00
116.01	3.26	1.73	0.00
118.01	3.26	1.73	0.00

Summary for Subcatchment 200A: 200A

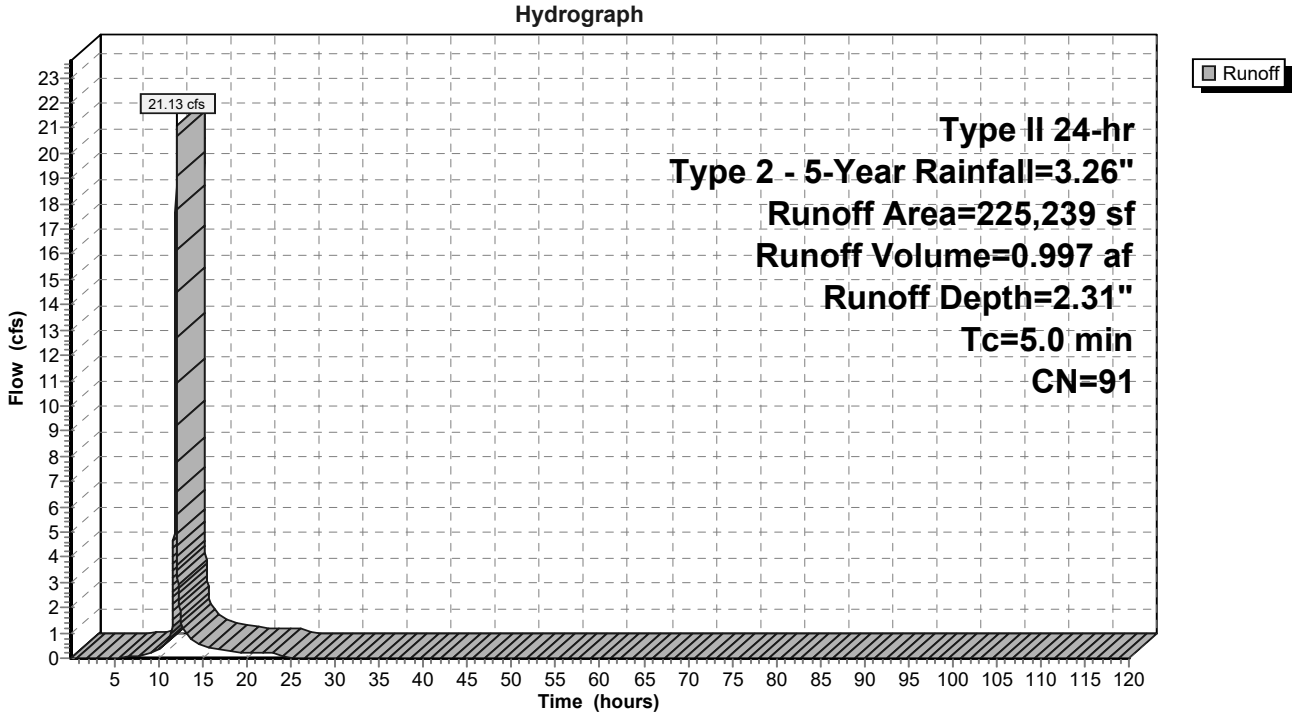
Runoff = 21.13 cfs @ 11.96 hrs, Volume= 0.997 af, Depth= 2.31"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.03
8.01	0.39	0.03	0.11
10.01	0.59	0.11	**0.32**
12.01	2.17	1.31	**16.20**
14.01	2.67	1.77	0.60
16.01	2.87	1.95	0.37
18.01	3.00	2.07	0.29
20.01	3.10	2.17	0.21
22.01	**3.19**	**2.24**	0.19
24.01	**3.26**	**2.31**	0.18
26.01	3.26	2.31	0.00
28.01	3.26	2.31	0.00
30.01	3.26	2.31	0.00
32.01	3.26	2.31	0.00
34.01	3.26	2.31	0.00
36.01	3.26	2.31	0.00
38.01	3.26	2.31	0.00
40.01	3.26	2.31	0.00
42.01	3.26	2.31	0.00
44.01	3.26	2.31	0.00
46.01	3.26	2.31	0.00
48.01	3.26	2.31	0.00
50.01	3.26	2.31	0.00
52.01	3.26	2.31	0.00
54.01	3.26	2.31	0.00
56.01	3.26	2.31	0.00
58.01	3.26	2.31	0.00
60.01	3.26	2.31	0.00
62.01	3.26	2.31	0.00
64.01	3.26	2.31	0.00
66.01	3.26	2.31	0.00
68.01	3.26	2.31	0.00
70.01	3.26	2.31	0.00
72.01	3.26	2.31	0.00
74.01	3.26	2.31	0.00
76.01	3.26	2.31	0.00
78.01	3.26	2.31	0.00
80.01	3.26	2.31	0.00
82.01	3.26	2.31	0.00
84.01	3.26	2.31	0.00
86.01	3.26	2.31	0.00
88.01	3.26	2.31	0.00
90.01	3.26	2.31	0.00
92.01	3.26	2.31	0.00
94.01	3.26	2.31	0.00
96.01	3.26	2.31	0.00
98.01	3.26	2.31	0.00
100.01	3.26	2.31	0.00
102.01	3.26	2.31	0.00
104.01	3.26	2.31	0.00
106.01	3.26	2.31	0.00
108.01	3.26	2.31	0.00
110.01	3.26	2.31	0.00
112.01	3.26	2.31	0.00
114.01	3.26	2.31	0.00
116.01	3.26	2.31	0.00
118.01	3.26	2.31	0.00

Summary for Subcatchment 300A: 300A

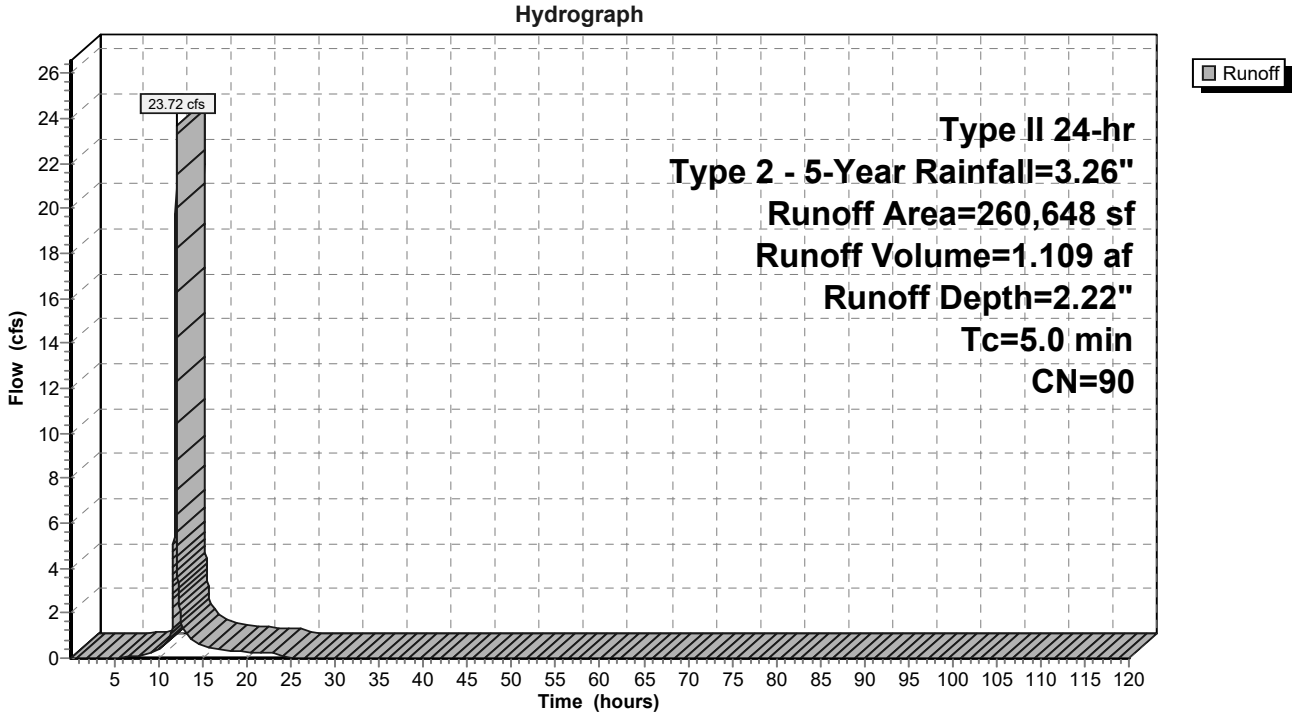
Runoff = 23.72 cfs @ 11.96 hrs, Volume= 1.109 af, Depth= 2.22"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.02
8.01	0.39	0.02	0.10
10.01	0.59	0.09	**0.33**
12.01	2.17	1.24	**18.25**
14.01	2.67	1.69	0.68
16.01	2.87	1.86	0.42
18.01	3.00	1.99	0.33
20.01	3.10	2.08	0.24
22.01	**3.19**	**2.16**	0.22
24.01	**3.26**	**2.22**	0.20
26.01	3.26	2.22	0.00
28.01	3.26	2.22	0.00
30.01	3.26	2.22	0.00
32.01	3.26	2.22	0.00
34.01	3.26	2.22	0.00
36.01	3.26	2.22	0.00
38.01	3.26	2.22	0.00
40.01	3.26	2.22	0.00
42.01	3.26	2.22	0.00
44.01	3.26	2.22	0.00
46.01	3.26	2.22	0.00
48.01	3.26	2.22	0.00
50.01	3.26	2.22	0.00
52.01	3.26	2.22	0.00
54.01	3.26	2.22	0.00
56.01	3.26	2.22	0.00
58.01	3.26	2.22	0.00
60.01	3.26	2.22	0.00
62.01	3.26	2.22	0.00
64.01	3.26	2.22	0.00
66.01	3.26	2.22	0.00
68.01	3.26	2.22	0.00
70.01	3.26	2.22	0.00
72.01	3.26	2.22	0.00
74.01	3.26	2.22	0.00
76.01	3.26	2.22	0.00
78.01	3.26	2.22	0.00
80.01	3.26	2.22	0.00
82.01	3.26	2.22	0.00
84.01	3.26	2.22	0.00
86.01	3.26	2.22	0.00
88.01	3.26	2.22	0.00
90.01	3.26	2.22	0.00
92.01	3.26	2.22	0.00
94.01	3.26	2.22	0.00
96.01	3.26	2.22	0.00
98.01	3.26	2.22	0.00
100.01	3.26	2.22	0.00
102.01	3.26	2.22	0.00
104.01	3.26	2.22	0.00
106.01	3.26	2.22	0.00
108.01	3.26	2.22	0.00
110.01	3.26	2.22	0.00
112.01	3.26	2.22	0.00
114.01	3.26	2.22	0.00
116.01	3.26	2.22	0.00
118.01	3.26	2.22	0.00

Summary for Subcatchment 300B: 300B

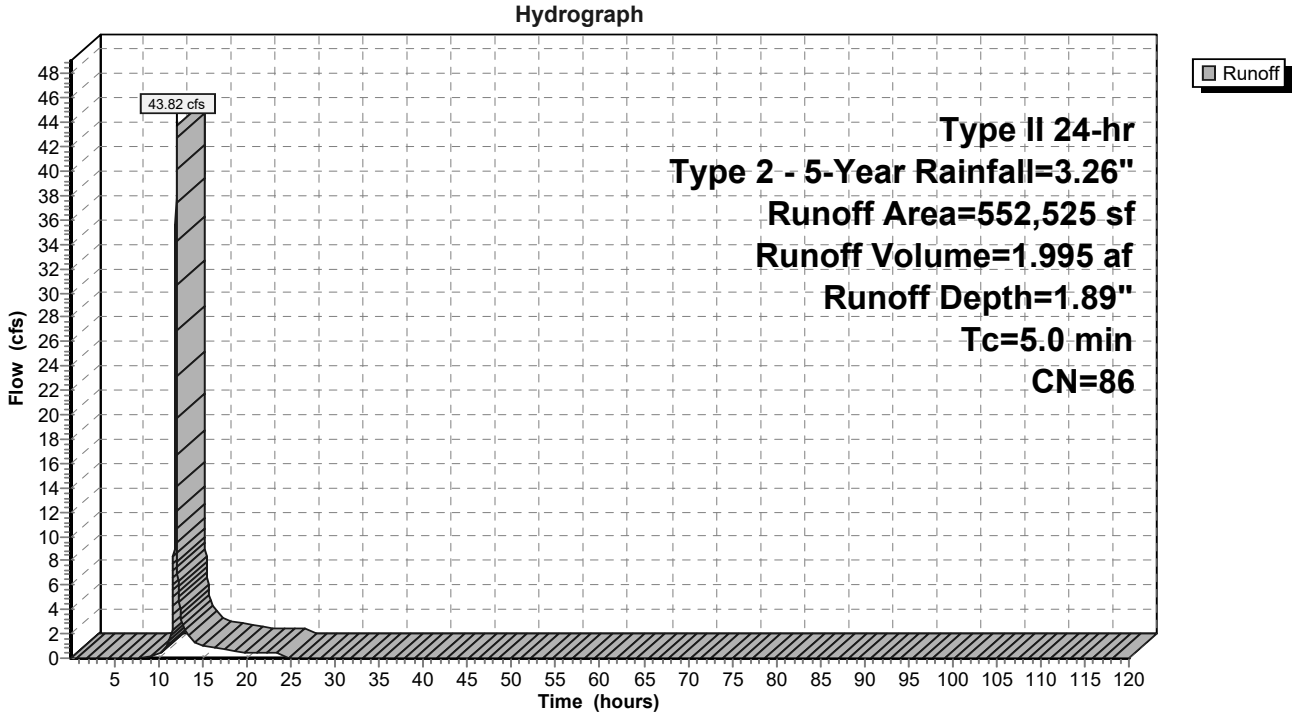
Runoff = 43.82 cfs @ 11.96 hrs, Volume= 1.995 af, Depth= 1.89"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.06
10.01	0.59	0.04	**0.41**
12.01	2.17	0.98	**34.21**
14.01	2.67	1.39	1.33
16.01	2.87	1.55	0.83
18.01	3.00	1.67	0.65
20.01	3.10	1.75	0.47
22.01	**3.19**	**1.82**	0.44
24.01	**3.26**	**1.89**	0.40
26.01	3.26	1.89	0.00
28.01	3.26	1.89	0.00
30.01	3.26	1.89	0.00
32.01	3.26	1.89	0.00
34.01	3.26	1.89	0.00
36.01	3.26	1.89	0.00
38.01	3.26	1.89	0.00
40.01	3.26	1.89	0.00
42.01	3.26	1.89	0.00
44.01	3.26	1.89	0.00
46.01	3.26	1.89	0.00
48.01	3.26	1.89	0.00
50.01	3.26	1.89	0.00
52.01	3.26	1.89	0.00
54.01	3.26	1.89	0.00
56.01	3.26	1.89	0.00
58.01	3.26	1.89	0.00
60.01	3.26	1.89	0.00
62.01	3.26	1.89	0.00
64.01	3.26	1.89	0.00
66.01	3.26	1.89	0.00
68.01	3.26	1.89	0.00
70.01	3.26	1.89	0.00
72.01	3.26	1.89	0.00
74.01	3.26	1.89	0.00
76.01	3.26	1.89	0.00
78.01	3.26	1.89	0.00
80.01	3.26	1.89	0.00
82.01	3.26	1.89	0.00
84.01	3.26	1.89	0.00
86.01	3.26	1.89	0.00
88.01	3.26	1.89	0.00
90.01	3.26	1.89	0.00
92.01	3.26	1.89	0.00
94.01	3.26	1.89	0.00
96.01	3.26	1.89	0.00
98.01	3.26	1.89	0.00
100.01	3.26	1.89	0.00
102.01	3.26	1.89	0.00
104.01	3.26	1.89	0.00
106.01	3.26	1.89	0.00
108.01	3.26	1.89	0.00
110.01	3.26	1.89	0.00
112.01	3.26	1.89	0.00
114.01	3.26	1.89	0.00
116.01	3.26	1.89	0.00
118.01	3.26	1.89	0.00

Summary for Subcatchment 400A: 400A

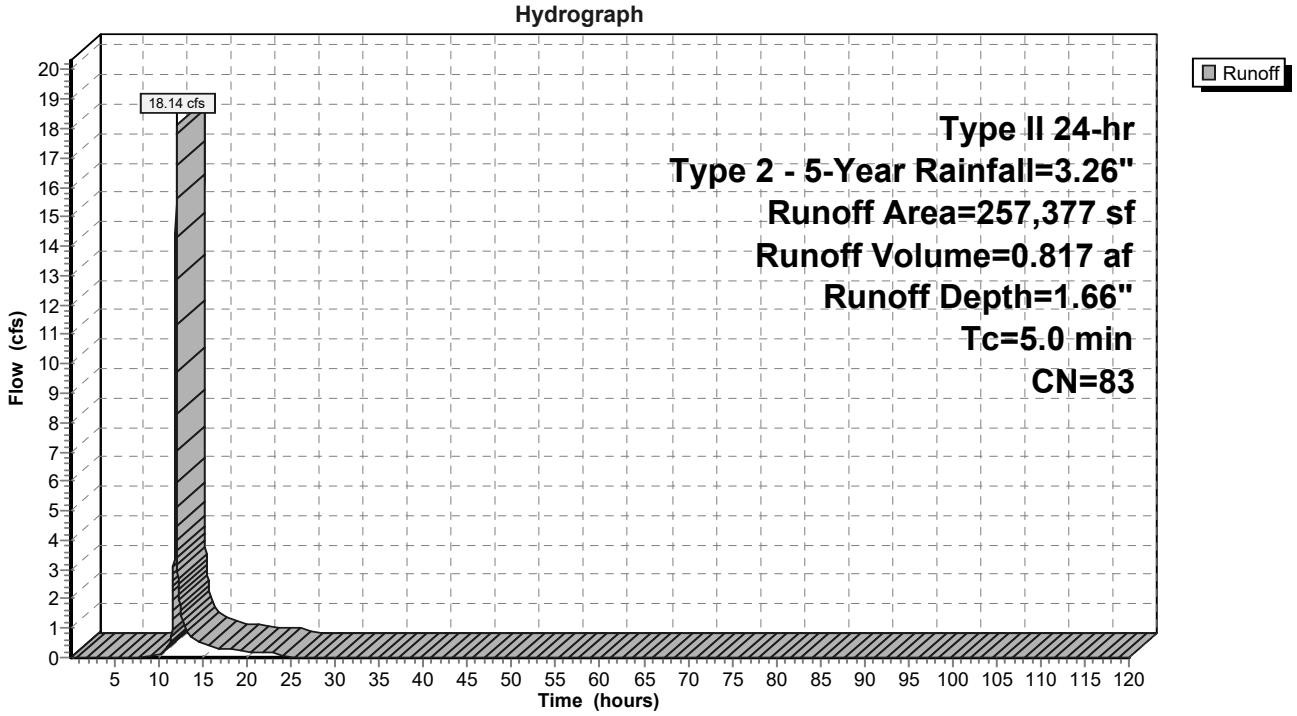
Runoff = 18.14 cfs @ 11.96 hrs, Volume= 0.817 af, Depth= 1.66"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.00
10.01	0.59	0.01	**0.11**
12.01	2.17	0.81	**14.33**
14.01	2.67	1.19	0.58
16.01	2.87	1.34	0.36
18.01	3.00	1.45	0.28
20.01	3.10	1.53	0.21
22.01	**3.19**	**1.60**	0.19
24.01	**3.26**	**1.66**	0.18
26.01	3.26	1.66	0.00
28.01	3.26	1.66	0.00
30.01	3.26	1.66	0.00
32.01	3.26	1.66	0.00
34.01	3.26	1.66	0.00
36.01	3.26	1.66	0.00
38.01	3.26	1.66	0.00
40.01	3.26	1.66	0.00
42.01	3.26	1.66	0.00
44.01	3.26	1.66	0.00
46.01	3.26	1.66	0.00
48.01	3.26	1.66	0.00
50.01	3.26	1.66	0.00
52.01	3.26	1.66	0.00
54.01	3.26	1.66	0.00
56.01	3.26	1.66	0.00
58.01	3.26	1.66	0.00
60.01	3.26	1.66	0.00
62.01	3.26	1.66	0.00
64.01	3.26	1.66	0.00
66.01	3.26	1.66	0.00
68.01	3.26	1.66	0.00
70.01	3.26	1.66	0.00
72.01	3.26	1.66	0.00
74.01	3.26	1.66	0.00
76.01	3.26	1.66	0.00
78.01	3.26	1.66	0.00
80.01	3.26	1.66	0.00
82.01	3.26	1.66	0.00
84.01	3.26	1.66	0.00
86.01	3.26	1.66	0.00
88.01	3.26	1.66	0.00
90.01	3.26	1.66	0.00
92.01	3.26	1.66	0.00
94.01	3.26	1.66	0.00
96.01	3.26	1.66	0.00
98.01	3.26	1.66	0.00
100.01	3.26	1.66	0.00
102.01	3.26	1.66	0.00
104.01	3.26	1.66	0.00
106.01	3.26	1.66	0.00
108.01	3.26	1.66	0.00
110.01	3.26	1.66	0.00
112.01	3.26	1.66	0.00
114.01	3.26	1.66	0.00
116.01	3.26	1.66	0.00
118.01	3.26	1.66	0.00

Summary for Subcatchment 500A: 500A

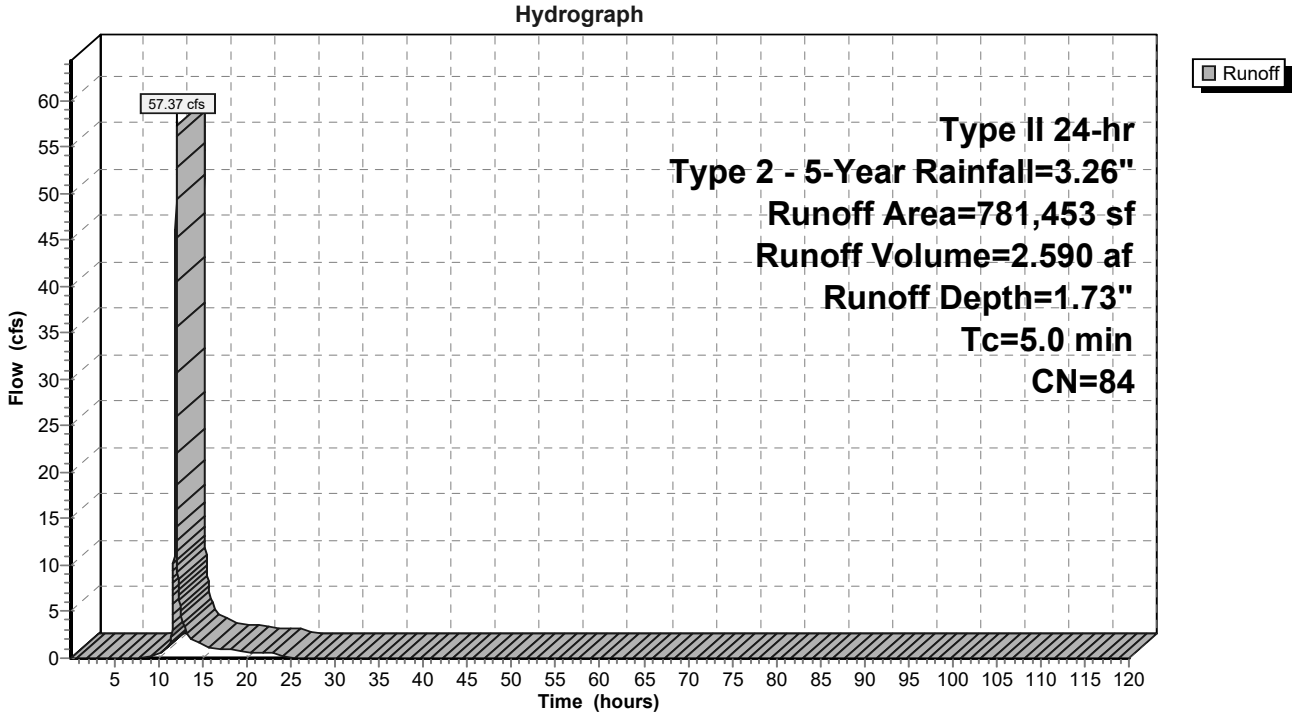
Runoff = 57.37 cfs @ 11.96 hrs, Volume= 2.590 af, Depth= 1.73"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 5-Year Rainfall=3.26"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.07	0.00	0.00
4.01	0.16	0.00	0.00
6.01	0.26	0.00	0.00
8.01	0.39	0.00	0.01
10.01	0.59	0.02	**0.42**
12.01	2.17	0.86	**45.13**
14.01	2.67	1.25	1.79
16.01	2.87	1.41	1.12
18.01	3.00	1.52	0.88
20.01	3.10	1.60	0.64
22.01	**3.19**	**1.67**	0.59
24.01	**3.26**	**1.73**	0.55
26.01	3.26	1.73	0.00
28.01	3.26	1.73	0.00
30.01	3.26	1.73	0.00
32.01	3.26	1.73	0.00
34.01	3.26	1.73	0.00
36.01	3.26	1.73	0.00
38.01	3.26	1.73	0.00
40.01	3.26	1.73	0.00
42.01	3.26	1.73	0.00
44.01	3.26	1.73	0.00
46.01	3.26	1.73	0.00
48.01	3.26	1.73	0.00
50.01	3.26	1.73	0.00
52.01	3.26	1.73	0.00
54.01	3.26	1.73	0.00
56.01	3.26	1.73	0.00
58.01	3.26	1.73	0.00
60.01	3.26	1.73	0.00
62.01	3.26	1.73	0.00
64.01	3.26	1.73	0.00
66.01	3.26	1.73	0.00
68.01	3.26	1.73	0.00
70.01	3.26	1.73	0.00
72.01	3.26	1.73	0.00
74.01	3.26	1.73	0.00
76.01	3.26	1.73	0.00
78.01	3.26	1.73	0.00
80.01	3.26	1.73	0.00
82.01	3.26	1.73	0.00
84.01	3.26	1.73	0.00
86.01	3.26	1.73	0.00
88.01	3.26	1.73	0.00
90.01	3.26	1.73	0.00
92.01	3.26	1.73	0.00
94.01	3.26	1.73	0.00
96.01	3.26	1.73	0.00
98.01	3.26	1.73	0.00
100.01	3.26	1.73	0.00
102.01	3.26	1.73	0.00
104.01	3.26	1.73	0.00
106.01	3.26	1.73	0.00
108.01	3.26	1.73	0.00
110.01	3.26	1.73	0.00
112.01	3.26	1.73	0.00
114.01	3.26	1.73	0.00
116.01	3.26	1.73	0.00
118.01	3.26	1.73	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 1.73" for Type 2 - 5-Year event
Inflow = 78.88 cfs @ 11.96 hrs, Volume= 3.561 af
Outflow = 0.85 cfs @ 20.87 hrs, Volume= 2.593 af, Atten= 99%, Lag= 534.6 min
Primary = 0.85 cfs @ 20.87 hrs, Volume= 2.593 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 880.56' @ 20.87 hrs Surf.Area= 84,089 sf Storage= 328,080 cf (120,593 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,387.4 min (2,212.0 - 824.6)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

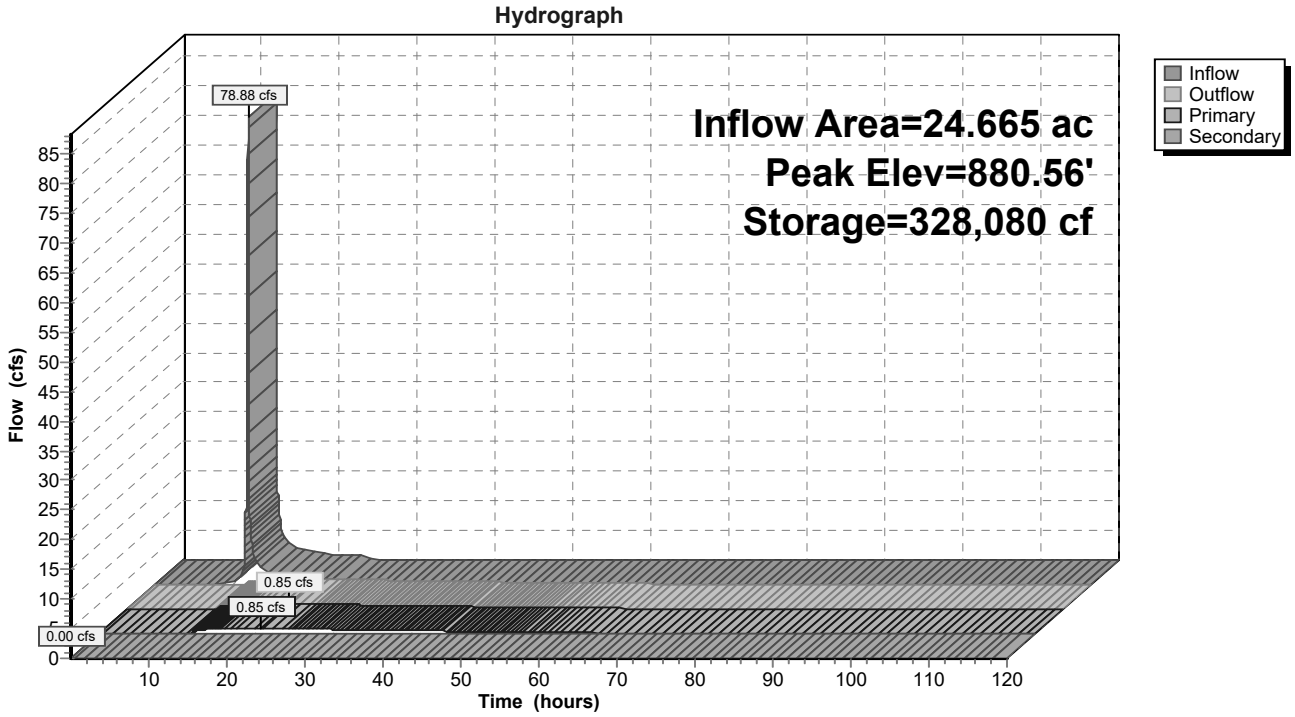
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.85 cfs @ 20.87 hrs HW=880.56' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 0.85 cfs of 9.88 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 4.34 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow Area=24.665 ac
Peak Elev=880.56'
Storage=328,080 cf
78.88 cfs
0.85 cfs
0.85 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.00	207,488	879.00	0.00	0.00	0.00
10.01	**0.57**	209,198	879.02	0.00	0.00	0.00
15.01	**1.99**	319,254	880.46	0.79	0.79	0.00
20.01	0.89	**328,048**	**880.56**	**0.85**	**0.85**	0.00
25.01	0.00	**324,711**	**880.52**	**0.83**	**0.83**	0.00
30.01	0.00	310,645	880.35	0.73	0.73	0.00
35.01	0.00	298,341	880.20	0.63	0.63	0.00
40.01	0.00	287,829	880.07	0.53	0.53	0.00
45.01	0.00	279,147	879.96	0.43	0.43	0.00
50.01	0.00	272,341	879.87	0.33	0.33	0.00
55.01	0.00	267,271	879.81	0.24	0.24	0.00
60.01	0.00	263,505	879.76	0.18	0.18	0.00
65.01	0.00	260,646	879.72	0.14	0.14	0.00
70.01	0.00	258,470	879.69	0.11	0.11	0.00
75.01	0.00	256,722	879.67	0.09	0.09	0.00
80.01	0.00	255,281	879.65	0.07	0.07	0.00
85.01	0.00	254,093	879.64	0.06	0.06	0.00
90.01	0.00	253,113	879.62	0.05	0.05	0.00
95.01	0.00	252,305	879.61	0.04	0.04	0.00
100.01	0.00	251,639	879.60	0.03	0.03	0.00
105.01	0.00	251,084	879.60	0.03	0.03	0.00
110.01	0.00	250,577	879.59	0.03	0.03	0.00
115.01	0.00	250,106	879.58	0.03	0.03	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 2.31" for Type 2 - 5-Year event
Inflow = 21.13 cfs @ 11.96 hrs, Volume= 0.997 af
Outflow = 0.65 cfs @ 13.83 hrs, Volume= 0.739 af, Atten= 97%, Lag= 112.5 min
Primary = 0.65 cfs @ 13.83 hrs, Volume= 0.739 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 876.23' @ 13.83 hrs Surf.Area= 24,772 sf Storage= 99,426 cf (28,509 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 577.1 min (1,374.9 - 797.7)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

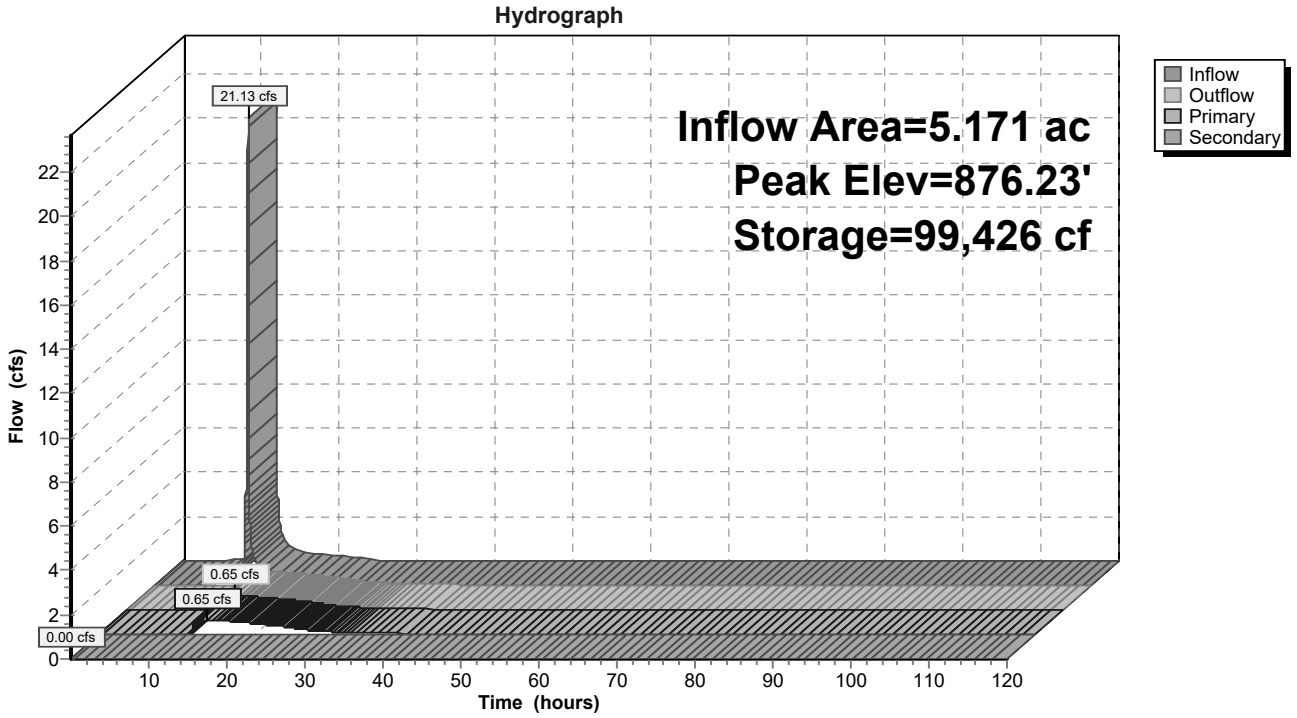
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.65 cfs @ 13.83 hrs HW=876.23' (Free Discharge)
└─**1=RCP_Round 12"** (Passes 0.65 cfs of 2.85 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 0.65 cfs @ 3.33 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.00	70,918	875.00	0.00	0.00	0.00
10.01	**0.32**	**72,930**	**875.09**	**0.00**	**0.00**	0.00
15.01	**0.48**	**98,995**	**876.21**	**0.64**	**0.64**	0.00
20.01	0.21	94,348	876.02	0.49	0.49	0.00
25.01	0.00	90,032	875.84	0.28	0.28	0.00
30.01	0.00	86,732	875.70	0.12	0.12	0.00
35.01	0.00	85,259	875.64	0.06	0.06	0.00
40.01	0.00	84,427	875.60	0.03	0.03	0.00
45.01	0.00	83,943	875.58	0.02	0.02	0.00
50.01	0.00	83,619	875.57	0.02	0.02	0.00
55.01	0.00	83,352	875.56	0.01	0.01	0.00
60.01	0.00	83,130	875.55	0.01	0.01	0.00
65.01	0.00	82,947	875.54	0.01	0.01	0.00
70.01	0.00	82,796	875.53	0.01	0.01	0.00
75.01	0.00	82,671	875.53	0.01	0.01	0.00
80.01	0.00	82,568	875.52	0.01	0.01	0.00
85.01	0.00	82,483	875.52	0.00	0.00	0.00
90.01	0.00	82,413	875.51	0.00	0.00	0.00
95.01	0.00	82,354	875.51	0.00	0.00	0.00
100.01	0.00	82,306	875.51	0.00	0.00	0.00
105.01	0.00	82,266	875.51	0.00	0.00	0.00
110.01	0.00	82,234	875.51	0.00	0.00	0.00
115.01	0.00	82,206	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 1.70" for Type 2 - 5-Year event
Inflow = 67.53 cfs @ 11.96 hrs, Volume= 3.479 af
Outflow = 0.53 cfs @ 24.07 hrs, Volume= 1.881 af, Atten= 99%, Lag= 726.4 min
Primary = 0.53 cfs @ 24.07 hrs, Volume= 1.881 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 876.06' @ 24.07 hrs Surf.Area= 122,226 sf Storage= 512,852 cf (123,768 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,741.1 min (2,680.8 - 939.8)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

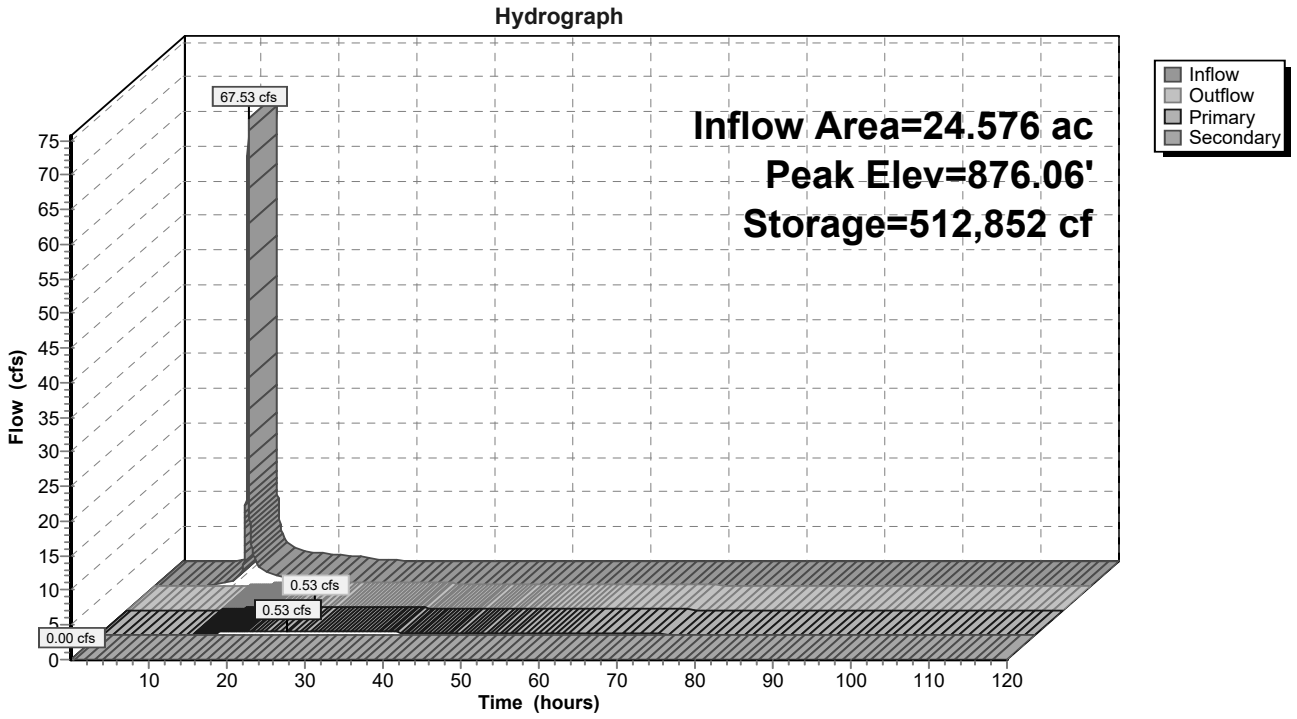
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.53 cfs @ 24.07 hrs HW=876.06' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 0.53 cfs of 5.27 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.53 cfs @ 2.70 fps)
  ├─**3=Sharp-Crested Rectangular Weir** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.00	389,084	875.00	0.00	0.00	0.00
10.01	**0.74**	392,590	875.03	0.00	0.00	0.00
15.01	**1.74**	493,550	875.91	0.37	0.37	0.00
20.01	0.91	**507,911**	**876.02**	**0.49**	**0.49**	0.00
25.01	0.18	**511,752**	**876.06**	**0.52**	**0.52**	0.00
30.01	0.11	505,250	876.00	0.47	0.47	0.00
35.01	0.07	498,722	875.95	0.42	0.42	0.00
40.01	0.05	492,742	875.90	0.36	0.36	0.00
45.01	0.03	487,527	875.86	0.30	0.30	0.00
50.01	0.03	483,055	875.82	0.25	0.25	0.00
55.01	0.02	479,298	875.79	0.21	0.21	0.00
60.01	0.02	476,143	875.76	0.18	0.18	0.00
65.01	0.02	473,455	875.74	0.15	0.15	0.00
70.01	0.01	471,125	875.72	0.13	0.13	0.00
75.01	0.01	469,108	875.70	0.12	0.12	0.00
80.01	0.01	467,362	875.69	0.10	0.10	0.00
85.01	0.01	465,851	875.67	0.09	0.09	0.00
90.01	0.01	464,526	875.66	0.08	0.08	0.00
95.01	0.01	463,319	875.65	0.07	0.07	0.00
100.01	0.00	462,218	875.64	0.06	0.06	0.00
105.01	0.00	461,216	875.63	0.06	0.06	0.00
110.01	0.00	460,304	875.63	0.05	0.05	0.00
115.01	0.00	459,475	875.62	0.05	0.05	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 1.66" for Type 2 - 5-Year event
Inflow = 18.14 cfs @ 11.96 hrs, Volume= 0.817 af
Outflow = 0.20 cfs @ 20.66 hrs, Volume= 0.375 af, Atten= 99%, Lag= 522.1 min
Primary = 0.20 cfs @ 20.66 hrs, Volume= 0.375 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 877.78' @ 20.66 hrs Surf.Area= 38,425 sf Storage= 158,867 cf (28,882 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,167.5 min (1,995.5 - 828.0)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

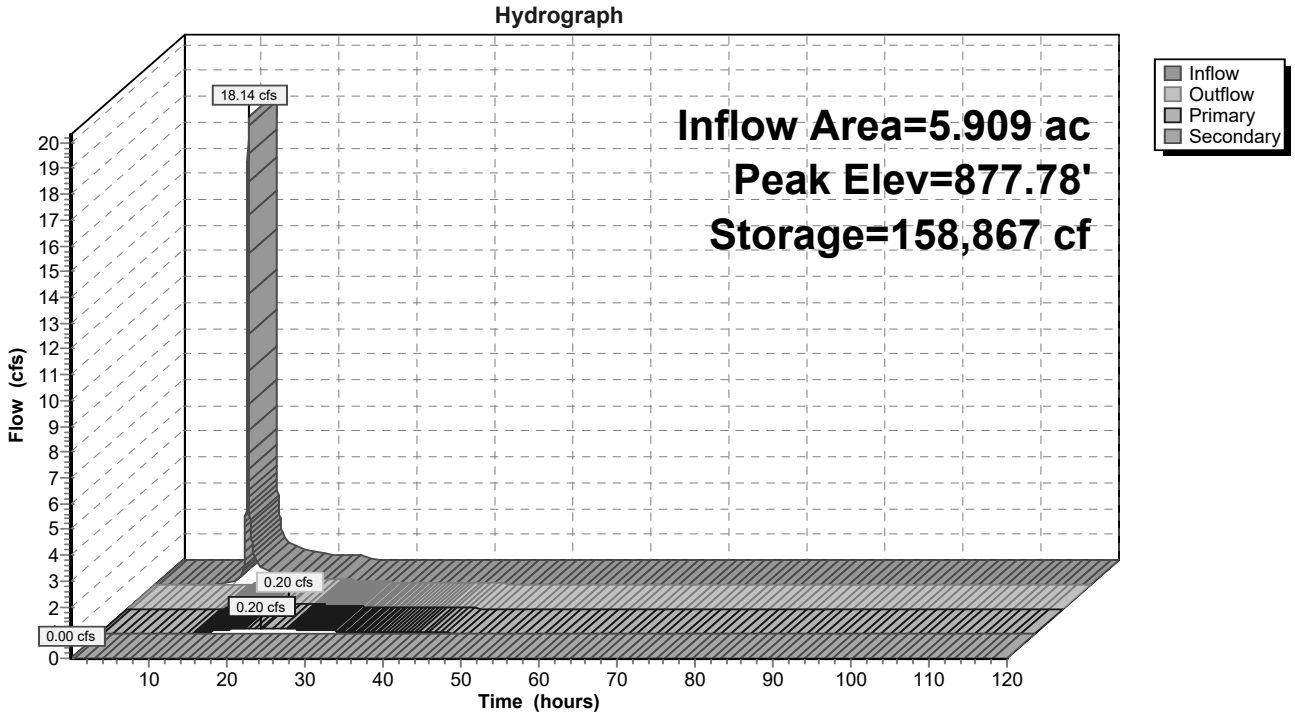
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.20 cfs @ 20.66 hrs HW=877.78' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.20 cfs of 2.90 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.20 cfs @ 1.79 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow
Outflow
Primary
Secondary
Inflow Area=5.909 ac
Peak Elev=877.78'
Storage=158,867 cf
18.14 cfs
0.20 cfs
0.20 cfs
0.00 cfs
Flow (cfs)
Time (hours)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.11**	130,270	877.01	0.00	0.00	0.00
15.01	**0.46**	156,489	877.72	0.13	0.13	0.00
20.01	0.21	**158,863**	**877.78**	**0.20**	**0.20**	0.00
25.01	0.00	**158,111**	**877.76**	**0.18**	**0.18**	0.00
30.01	0.00	155,628	877.69	0.11	0.11	0.00
35.01	0.00	154,089	877.65	0.07	0.07	0.00
40.01	0.00	153,029	877.62	0.05	0.05	0.00
45.01	0.00	152,294	877.60	0.03	0.03	0.00
50.01	0.00	151,762	877.59	0.03	0.03	0.00
55.01	0.00	151,320	877.58	0.02	0.02	0.00
60.01	0.00	150,947	877.57	0.02	0.02	0.00
65.01	0.00	150,633	877.56	0.02	0.02	0.00
70.01	0.00	150,369	877.55	0.01	0.01	0.00
75.01	0.00	150,146	877.55	0.01	0.01	0.00
80.01	0.00	149,959	877.54	0.01	0.01	0.00
85.01	0.00	149,801	877.54	0.01	0.01	0.00
90.01	0.00	149,668	877.54	0.01	0.01	0.00
95.01	0.00	149,557	877.53	0.01	0.01	0.00
100.01	0.00	149,462	877.53	0.00	0.00	0.00
105.01	0.00	149,383	877.53	0.00	0.00	0.00
110.01	0.00	149,316	877.53	0.00	0.00	0.00
115.01	0.00	149,260	877.52	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 1.73" for Type 2 - 5-Year event
Inflow = 57.37 cfs @ 11.96 hrs, Volume= 2.590 af
Outflow = 0.75 cfs @ 19.15 hrs, Volume= 1.846 af, Atten= 99%, Lag= 431.0 min
Primary = 0.75 cfs @ 19.15 hrs, Volume= 1.846 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 900.38' @ 19.15 hrs Surf.Area= 65,140 sf Storage= 280,704 cf (84,291 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,168.0 min (1,992.6 - 824.6)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

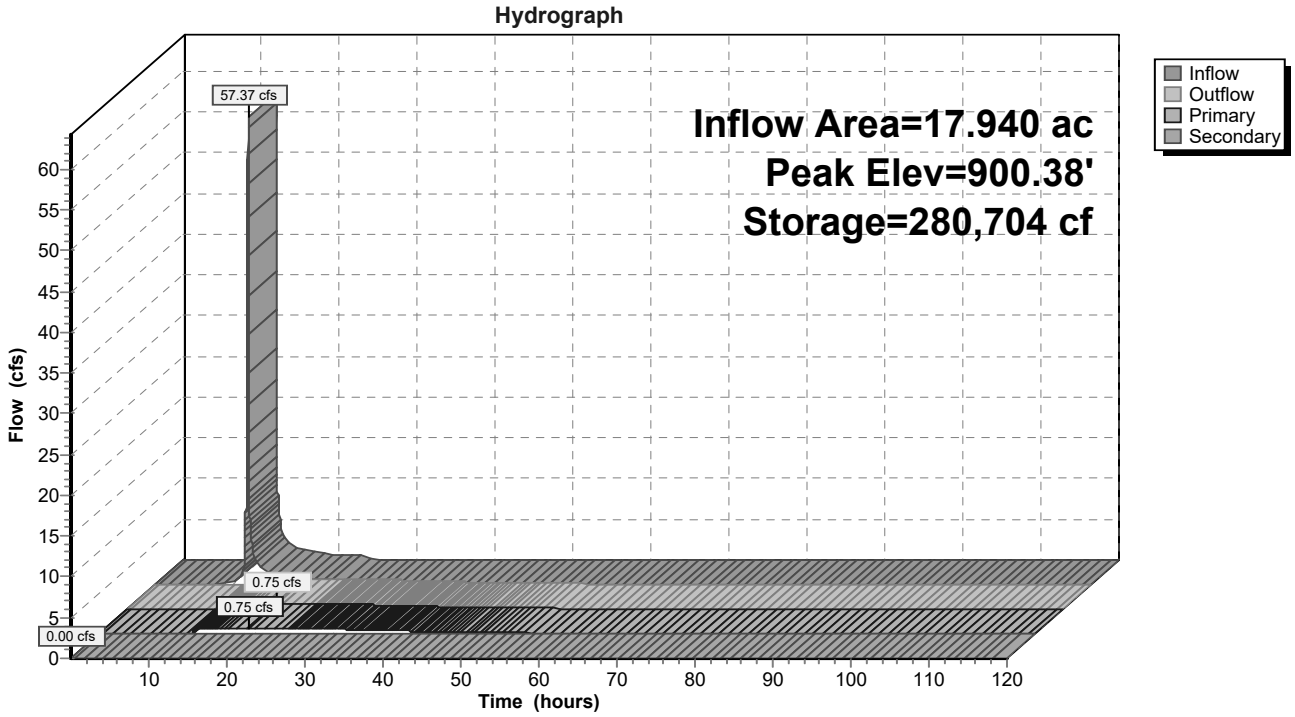
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.75 cfs @ 19.15 hrs HW=900.38' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 0.75 cfs of 8.13 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.75 cfs @ 3.81 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=900.38'
Storage=280,704 cf
57.37 cfs
0.75 cfs
0.75 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 500: 500

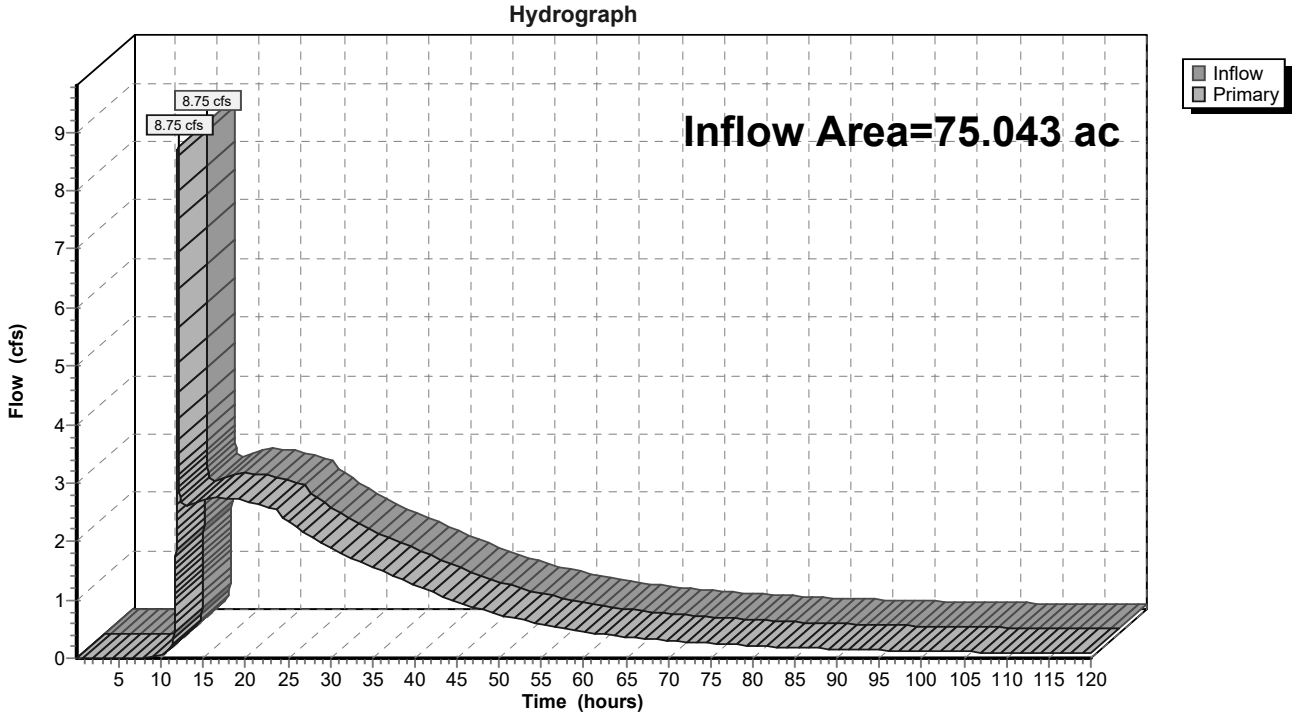
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.00	196,414	899.00	0.00	0.00	0.00
10.01	**0.42**	197,657	899.02	0.00	0.00	0.00
15.01	**1.44**	**276,538**	**900.31**	**0.71**	**0.71**	0.00
20.01	0.64	**280,551**	**900.37**	**0.75**	**0.75**	0.00
25.01	0.00	276,029	900.30	0.70	0.70	0.00
30.01	0.00	264,492	900.12	0.58	0.58	0.00
35.01	0.00	255,233	899.98	0.45	0.45	0.00
40.01	0.00	248,324	899.87	0.32	0.32	0.00
45.01	0.00	243,543	899.79	0.22	0.22	0.00
50.01	0.00	240,211	899.74	0.16	0.16	0.00
55.01	0.00	237,848	899.70	0.11	0.11	0.00
60.01	0.00	236,081	899.67	0.09	0.09	0.00
65.01	0.00	234,692	899.65	0.07	0.07	0.00
70.01	0.00	233,600	899.63	0.05	0.05	0.00
75.01	0.00	232,741	899.61	0.04	0.04	0.00
80.01	0.00	232,066	899.60	0.03	0.03	0.00
85.01	0.00	231,522	899.59	0.03	0.03	0.00
90.01	0.00	231,031	899.59	0.03	0.03	0.00
95.01	0.00	230,582	899.58	0.02	0.02	0.00
100.01	0.00	230,172	899.57	0.02	0.02	0.00
105.01	0.00	229,796	899.57	0.02	0.02	0.00
110.01	0.00	229,453	899.56	0.02	0.02	0.00
115.01	0.00	229,139	899.56	0.02	0.02	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 1.19" for Type 2 - 5-Year event
Inflow = 8.75 cfs @ 11.97 hrs, Volume= 7.430 af
Primary = 8.75 cfs @ 11.97 hrs, Volume= 7.430 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.00	0.00	0.00
10.01	**0.05**	0.00	**0.05**
12.01	**7.53**	0.00	**7.53**
14.01	2.66	0.00	2.66
16.01	2.74	0.00	2.74
18.01	2.74	0.00	2.74
20.01	2.68	0.00	2.68
22.01	2.61	0.00	2.61
24.01	2.53	0.00	2.53
26.01	2.23	0.00	2.23
28.01	2.06	0.00	2.06
30.01	1.90	0.00	1.90
32.01	1.76	0.00	1.76
34.01	1.63	0.00	1.63
36.01	1.50	0.00	1.50
38.01	1.37	0.00	1.37
40.01	1.25	0.00	1.25
42.01	1.13	0.00	1.13
44.01	1.02	0.00	1.02
46.01	0.92	0.00	0.92
48.01	0.84	0.00	0.84
50.01	0.75	0.00	0.75
52.01	0.68	0.00	0.68
54.01	0.61	0.00	0.61
56.01	0.55	0.00	0.55
58.01	0.50	0.00	0.50
60.01	0.46	0.00	0.46
62.01	0.42	0.00	0.42
64.01	0.39	0.00	0.39
66.01	0.35	0.00	0.35
68.01	0.33	0.00	0.33
70.01	0.30	0.00	0.30
72.01	0.28	0.00	0.28
74.01	0.26	0.00	0.26
76.01	0.24	0.00	0.24
78.01	0.23	0.00	0.23
80.01	0.21	0.00	0.21
82.01	0.20	0.00	0.20
84.01	0.18	0.00	0.18
86.01	0.17	0.00	0.17
88.01	0.16	0.00	0.16
90.01	0.16	0.00	0.16
92.01	0.15	0.00	0.15
94.01	0.14	0.00	0.14
96.01	0.13	0.00	0.13
98.01	0.13	0.00	0.13
100.01	0.12	0.00	0.12
102.01	0.12	0.00	0.12
104.01	0.11	0.00	0.11
106.01	0.11	0.00	0.11
108.01	0.10	0.00	0.10
110.01	0.10	0.00	0.10
112.01	0.10	0.00	0.10
114.01	0.09	0.00	0.09
116.01	0.09	0.00	0.09
118.01	0.09	0.00	0.09

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=2.14"
Tc=5.0 min CN=83 Runoff=10.00 cfs 0.454 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=2.14"
Tc=5.0 min CN=83 Runoff=0.58 cfs 0.026 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=2.22"
Tc=5.0 min CN=84 Runoff=100.29 cfs 4.567 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=2.85"
Tc=5.0 min CN=91 Runoff=25.72 cfs 1.230 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=2.76"
Tc=5.0 min CN=90 Runoff=29.04 cfs 1.375 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=2.39"
Tc=5.0 min CN=86 Runoff=54.98 cfs 2.529 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=2.14"
Tc=5.0 min CN=83 Runoff=23.23 cfs 1.053 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=2.22"
Tc=5.0 min CN=84 Runoff=72.94 cfs 3.322 af

Pond 100: 100 Peak Elev=880.97' Storage=363,404 cf Inflow=100.29 cfs 4.567 af
Primary=1.05 cfs 3.577 af Secondary=0.00 cfs 0.000 af Outflow=1.05 cfs 3.577 af

Pond 200: 200 Peak Elev=876.50' Storage=106,228 cf Inflow=25.72 cfs 1.230 af
Primary=0.82 cfs 0.971 af Secondary=0.00 cfs 0.000 af Outflow=0.82 cfs 0.971 af

Pond 300: 300 Peak Elev=876.33' Storage=545,207 cf Inflow=84.01 cfs 4.516 af
Primary=0.82 cfs 2.867 af Secondary=0.00 cfs 0.000 af Outflow=0.82 cfs 2.867 af

Pond 400: 400 Peak Elev=877.90' Storage=163,756 cf Inflow=23.23 cfs 1.053 af
Primary=0.37 cfs 0.611 af Secondary=0.00 cfs 0.000 af Outflow=0.37 cfs 0.611 af

Pond 500: 500 Peak Elev=900.74' Storage=304,891 cf Inflow=72.94 cfs 3.322 af
Primary=0.94 cfs 2.566 af Secondary=0.00 cfs 0.000 af Outflow=0.94 cfs 2.566 af

Link 1: OFFSITE Inflow=11.91 cfs 10.462 af
Primary=11.91 cfs 10.462 af

Total Runoff Area = 75.043 ac Runoff Volume = 14.557 af Average Runoff Depth = 2.33"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

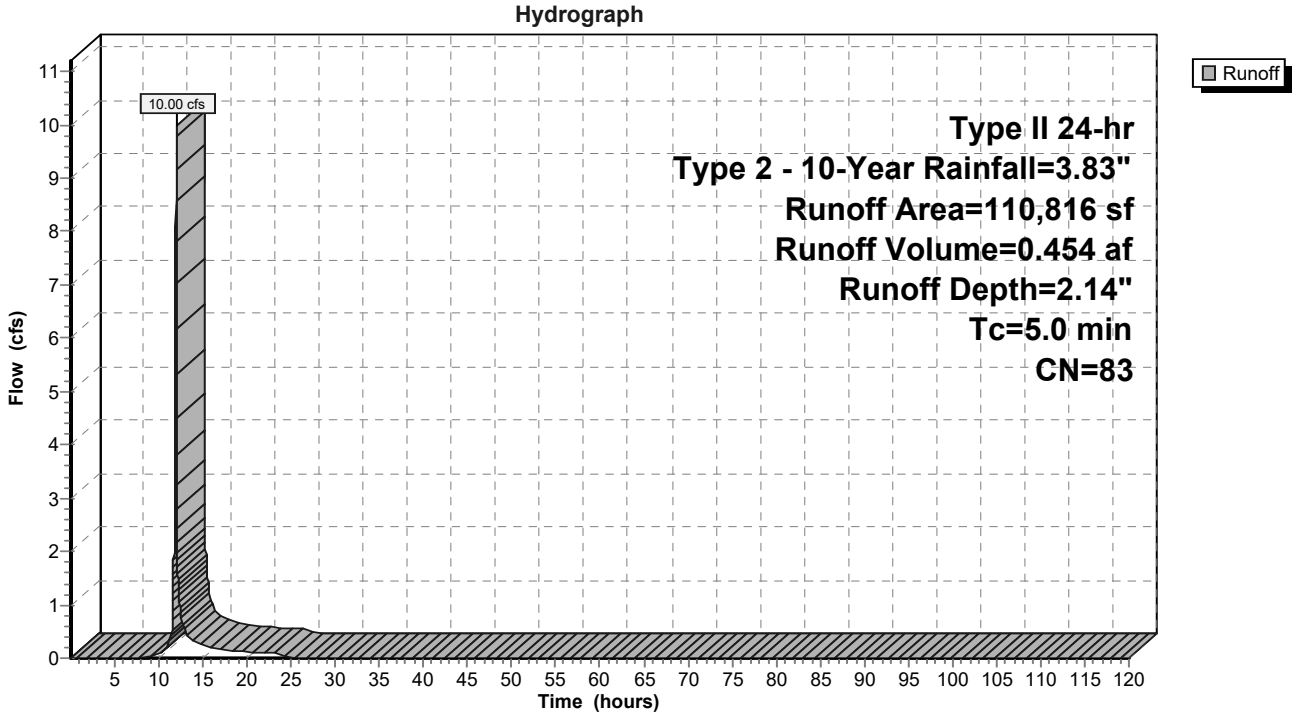
Runoff = 10.00 cfs @ 11.96 hrs, Volume= 0.454 af, Depth= 2.14"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.01
10.01	0.69	0.03	**0.08**
12.01	2.55	1.09	**7.83**
14.01	3.14	1.56	0.31
16.01	3.37	1.75	0.19
18.01	3.53	1.88	0.15
20.01	3.65	1.98	0.11
22.01	**3.74**	**2.06**	0.10
24.01	**3.83**	**2.14**	0.09
26.01	3.83	2.14	0.00
28.01	3.83	2.14	0.00
30.01	3.83	2.14	0.00
32.01	3.83	2.14	0.00
34.01	3.83	2.14	0.00
36.01	3.83	2.14	0.00
38.01	3.83	2.14	0.00
40.01	3.83	2.14	0.00
42.01	3.83	2.14	0.00
44.01	3.83	2.14	0.00
46.01	3.83	2.14	0.00
48.01	3.83	2.14	0.00
50.01	3.83	2.14	0.00
52.01	3.83	2.14	0.00
54.01	3.83	2.14	0.00
56.01	3.83	2.14	0.00
58.01	3.83	2.14	0.00
60.01	3.83	2.14	0.00
62.01	3.83	2.14	0.00
64.01	3.83	2.14	0.00
66.01	3.83	2.14	0.00
68.01	3.83	2.14	0.00
70.01	3.83	2.14	0.00
72.01	3.83	2.14	0.00
74.01	3.83	2.14	0.00
76.01	3.83	2.14	0.00
78.01	3.83	2.14	0.00
80.01	3.83	2.14	0.00
82.01	3.83	2.14	0.00
84.01	3.83	2.14	0.00
86.01	3.83	2.14	0.00
88.01	3.83	2.14	0.00
90.01	3.83	2.14	0.00
92.01	3.83	2.14	0.00
94.01	3.83	2.14	0.00
96.01	3.83	2.14	0.00
98.01	3.83	2.14	0.00
100.01	3.83	2.14	0.00
102.01	3.83	2.14	0.00
104.01	3.83	2.14	0.00
106.01	3.83	2.14	0.00
108.01	3.83	2.14	0.00
110.01	3.83	2.14	0.00
112.01	3.83	2.14	0.00
114.01	3.83	2.14	0.00
116.01	3.83	2.14	0.00
118.01	3.83	2.14	0.00

Summary for Subcatchment 2A: 2A

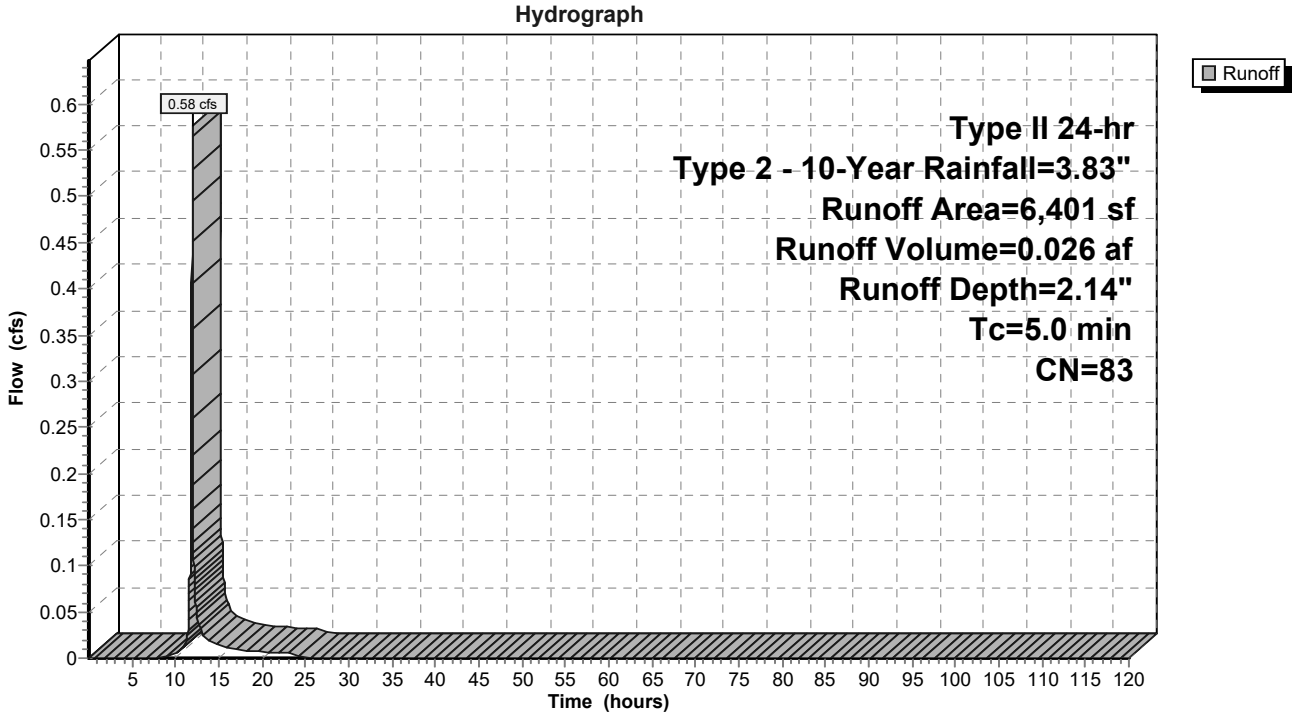
Runoff = 0.58 cfs @ 11.96 hrs, Volume= 0.026 af, Depth= 2.14"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.00
10.01	0.69	0.03	**0.00**
12.01	2.55	1.09	**0.45**
14.01	3.14	1.56	0.02
16.01	3.37	1.75	0.01
18.01	3.53	1.88	0.01
20.01	3.65	1.98	0.01
22.01	**3.74**	**2.06**	0.01
24.01	**3.83**	**2.14**	0.01
26.01	3.83	2.14	0.00
28.01	3.83	2.14	0.00
30.01	3.83	2.14	0.00
32.01	3.83	2.14	0.00
34.01	3.83	2.14	0.00
36.01	3.83	2.14	0.00
38.01	3.83	2.14	0.00
40.01	3.83	2.14	0.00
42.01	3.83	2.14	0.00
44.01	3.83	2.14	0.00
46.01	3.83	2.14	0.00
48.01	3.83	2.14	0.00
50.01	3.83	2.14	0.00
52.01	3.83	2.14	0.00
54.01	3.83	2.14	0.00
56.01	3.83	2.14	0.00
58.01	3.83	2.14	0.00
60.01	3.83	2.14	0.00
62.01	3.83	2.14	0.00
64.01	3.83	2.14	0.00
66.01	3.83	2.14	0.00
68.01	3.83	2.14	0.00
70.01	3.83	2.14	0.00
72.01	3.83	2.14	0.00
74.01	3.83	2.14	0.00
76.01	3.83	2.14	0.00
78.01	3.83	2.14	0.00
80.01	3.83	2.14	0.00
82.01	3.83	2.14	0.00
84.01	3.83	2.14	0.00
86.01	3.83	2.14	0.00
88.01	3.83	2.14	0.00
90.01	3.83	2.14	0.00
92.01	3.83	2.14	0.00
94.01	3.83	2.14	0.00
96.01	3.83	2.14	0.00
98.01	3.83	2.14	0.00
100.01	3.83	2.14	0.00
102.01	3.83	2.14	0.00
104.01	3.83	2.14	0.00
106.01	3.83	2.14	0.00
108.01	3.83	2.14	0.00
110.01	3.83	2.14	0.00
112.01	3.83	2.14	0.00
114.01	3.83	2.14	0.00
116.01	3.83	2.14	0.00
118.01	3.83	2.14	0.00

Summary for Subcatchment 100A: 100A

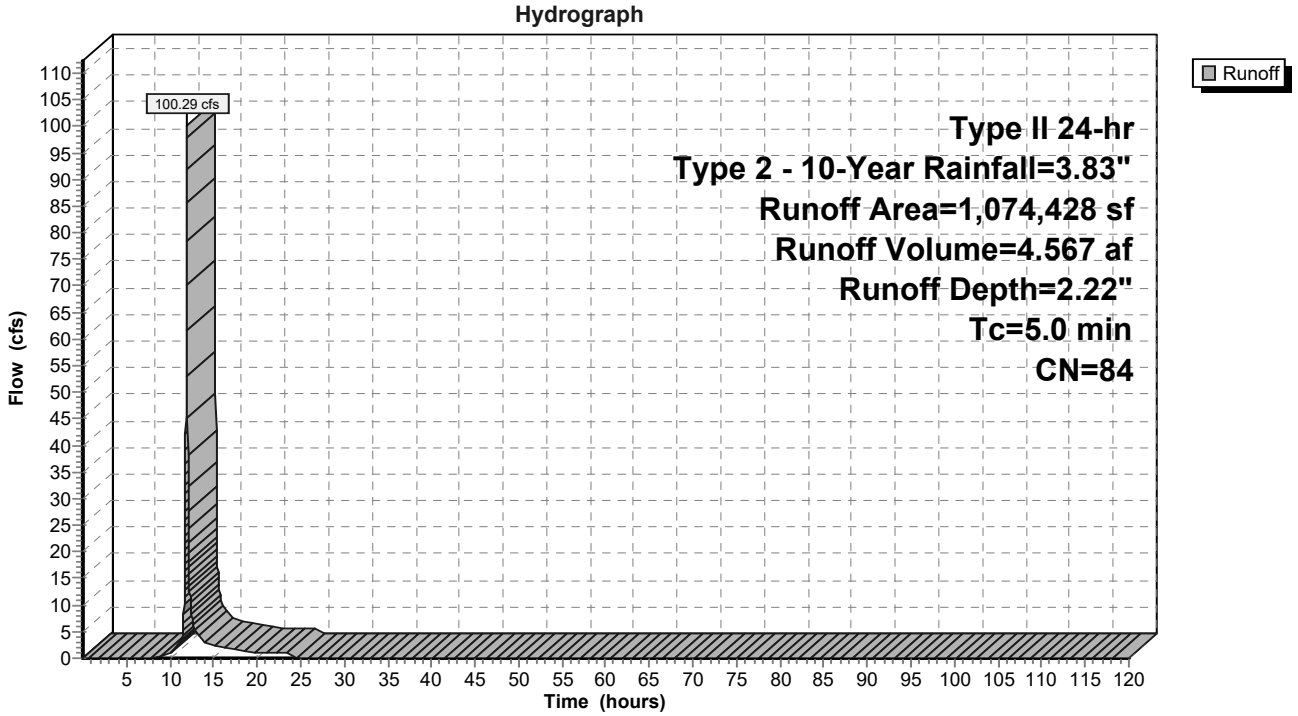
Runoff = 100.29 cfs @ 11.96 hrs, Volume= 4.567 af, Depth= 2.22"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.15
10.01	0.69	0.04	**0.95**
12.01	2.55	1.15	**78.28**
14.01	3.14	1.63	3.04
16.01	3.37	1.83	1.90
18.01	3.53	1.96	1.48
20.01	3.65	2.06	1.08
22.01	**3.74**	**2.15**	1.00
24.01	**3.83**	**2.22**	0.92
26.01	3.83	2.22	0.00
28.01	3.83	2.22	0.00
30.01	3.83	2.22	0.00
32.01	3.83	2.22	0.00
34.01	3.83	2.22	0.00
36.01	3.83	2.22	0.00
38.01	3.83	2.22	0.00
40.01	3.83	2.22	0.00
42.01	3.83	2.22	0.00
44.01	3.83	2.22	0.00
46.01	3.83	2.22	0.00
48.01	3.83	2.22	0.00
50.01	3.83	2.22	0.00
52.01	3.83	2.22	0.00
54.01	3.83	2.22	0.00
56.01	3.83	2.22	0.00
58.01	3.83	2.22	0.00
60.01	3.83	2.22	0.00
62.01	3.83	2.22	0.00
64.01	3.83	2.22	0.00
66.01	3.83	2.22	0.00
68.01	3.83	2.22	0.00
70.01	3.83	2.22	0.00
72.01	3.83	2.22	0.00
74.01	3.83	2.22	0.00
76.01	3.83	2.22	0.00
78.01	3.83	2.22	0.00
80.01	3.83	2.22	0.00
82.01	3.83	2.22	0.00
84.01	3.83	2.22	0.00
86.01	3.83	2.22	0.00
88.01	3.83	2.22	0.00
90.01	3.83	2.22	0.00
92.01	3.83	2.22	0.00
94.01	3.83	2.22	0.00
96.01	3.83	2.22	0.00
98.01	3.83	2.22	0.00
100.01	3.83	2.22	0.00
102.01	3.83	2.22	0.00
104.01	3.83	2.22	0.00
106.01	3.83	2.22	0.00
108.01	3.83	2.22	0.00
110.01	3.83	2.22	0.00
112.01	3.83	2.22	0.00
114.01	3.83	2.22	0.00
116.01	3.83	2.22	0.00
118.01	3.83	2.22	0.00

Summary for Subcatchment 200A: 200A

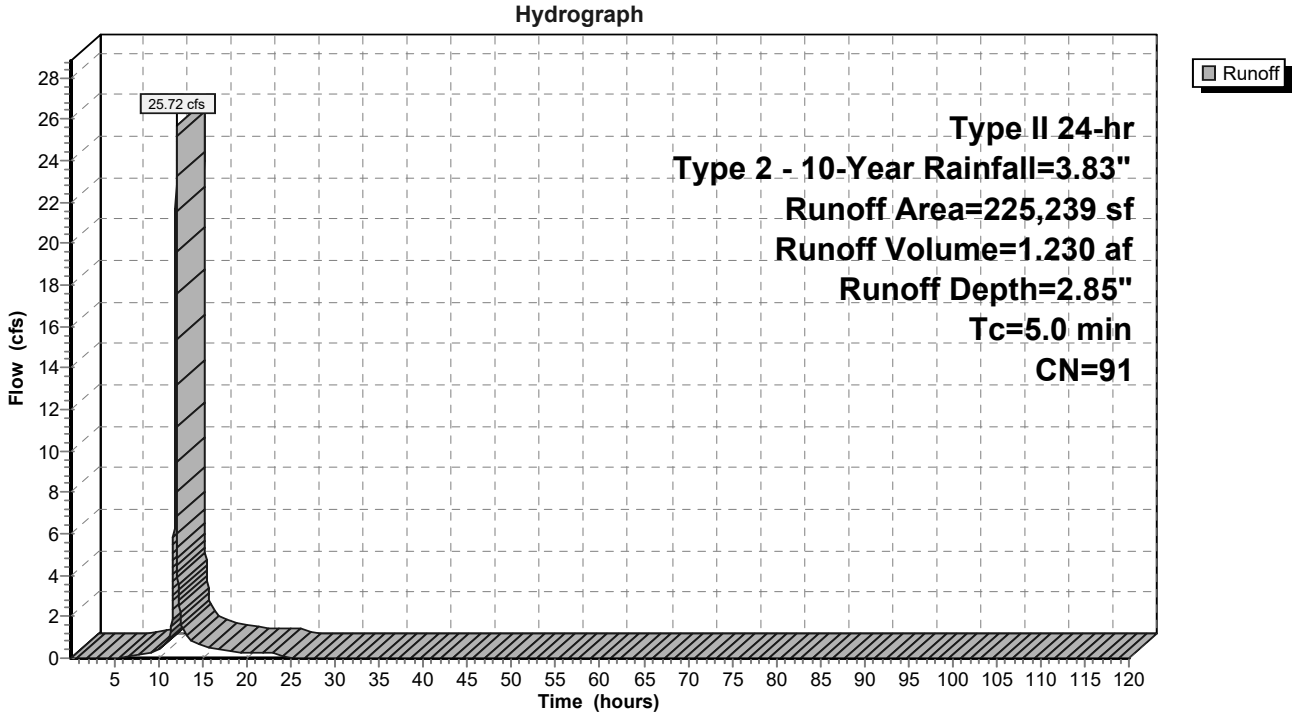
Runoff = 25.72 cfs @ 11.96 hrs, Volume= 1.230 af, Depth= 2.85"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.01	0.06
8.01	0.46	0.06	0.16
10.01	0.69	0.17	**0.43**
12.01	2.55	1.65	**19.63**
14.01	3.14	2.20	0.72
16.01	3.37	2.42	0.44
18.01	3.53	2.57	0.34
20.01	3.65	2.68	0.25
22.01	**3.74**	**2.77**	0.23
24.01	**3.83**	**2.85**	0.21
26.01	3.83	2.85	0.00
28.01	3.83	2.85	0.00
30.01	3.83	2.85	0.00
32.01	3.83	2.85	0.00
34.01	3.83	2.85	0.00
36.01	3.83	2.85	0.00
38.01	3.83	2.85	0.00
40.01	3.83	2.85	0.00
42.01	3.83	2.85	0.00
44.01	3.83	2.85	0.00
46.01	3.83	2.85	0.00
48.01	3.83	2.85	0.00
50.01	3.83	2.85	0.00
52.01	3.83	2.85	0.00
54.01	3.83	2.85	0.00
56.01	3.83	2.85	0.00
58.01	3.83	2.85	0.00
60.01	3.83	2.85	0.00
62.01	3.83	2.85	0.00
64.01	3.83	2.85	0.00
66.01	3.83	2.85	0.00
68.01	3.83	2.85	0.00
70.01	3.83	2.85	0.00
72.01	3.83	2.85	0.00
74.01	3.83	2.85	0.00
76.01	3.83	2.85	0.00
78.01	3.83	2.85	0.00
80.01	3.83	2.85	0.00
82.01	3.83	2.85	0.00
84.01	3.83	2.85	0.00
86.01	3.83	2.85	0.00
88.01	3.83	2.85	0.00
90.01	3.83	2.85	0.00
92.01	3.83	2.85	0.00
94.01	3.83	2.85	0.00
96.01	3.83	2.85	0.00
98.01	3.83	2.85	0.00
100.01	3.83	2.85	0.00
102.01	3.83	2.85	0.00
104.01	3.83	2.85	0.00
106.01	3.83	2.85	0.00
108.01	3.83	2.85	0.00
110.01	3.83	2.85	0.00
112.01	3.83	2.85	0.00
114.01	3.83	2.85	0.00
116.01	3.83	2.85	0.00
118.01	3.83	2.85	0.00

Summary for Subcatchment 300A: 300A

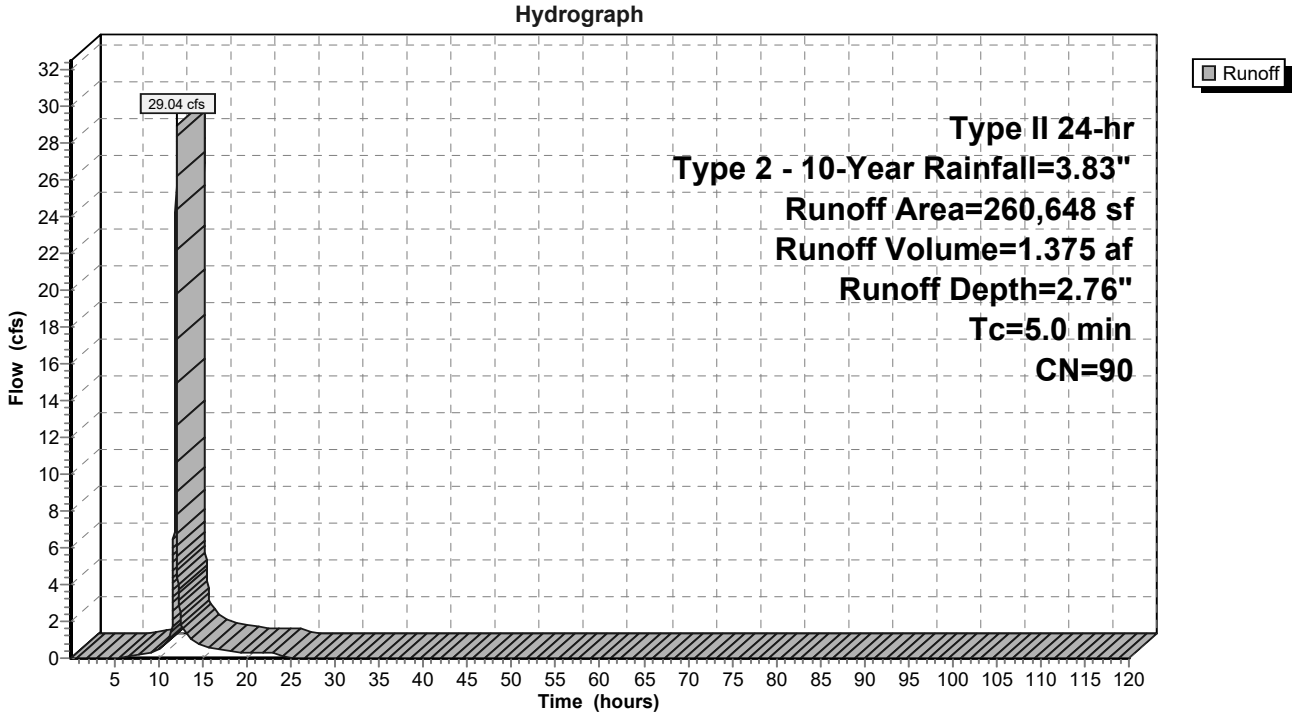
Runoff = 29.04 cfs @ 11.96 hrs, Volume= 1.375 af, Depth= 2.76"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.01	0.05
8.01	0.46	0.04	0.16
10.01	0.69	0.14	**0.45**
12.01	2.55	1.57	**22.23**
14.01	3.14	2.11	0.82
16.01	3.37	2.33	0.51
18.01	3.53	2.47	0.39
20.01	3.65	2.59	0.29
22.01	**3.74**	**2.68**	0.26
24.01	**3.83**	**2.76**	0.24
26.01	3.83	2.76	0.00
28.01	3.83	2.76	0.00
30.01	3.83	2.76	0.00
32.01	3.83	2.76	0.00
34.01	3.83	2.76	0.00
36.01	3.83	2.76	0.00
38.01	3.83	2.76	0.00
40.01	3.83	2.76	0.00
42.01	3.83	2.76	0.00
44.01	3.83	2.76	0.00
46.01	3.83	2.76	0.00
48.01	3.83	2.76	0.00
50.01	3.83	2.76	0.00
52.01	3.83	2.76	0.00
54.01	3.83	2.76	0.00
56.01	3.83	2.76	0.00
58.01	3.83	2.76	0.00
60.01	3.83	2.76	0.00
62.01	3.83	2.76	0.00
64.01	3.83	2.76	0.00
66.01	3.83	2.76	0.00
68.01	3.83	2.76	0.00
70.01	3.83	2.76	0.00
72.01	3.83	2.76	0.00
74.01	3.83	2.76	0.00
76.01	3.83	2.76	0.00
78.01	3.83	2.76	0.00
80.01	3.83	2.76	0.00
82.01	3.83	2.76	0.00
84.01	3.83	2.76	0.00
86.01	3.83	2.76	0.00
88.01	3.83	2.76	0.00
90.01	3.83	2.76	0.00
92.01	3.83	2.76	0.00
94.01	3.83	2.76	0.00
96.01	3.83	2.76	0.00
98.01	3.83	2.76	0.00
100.01	3.83	2.76	0.00
102.01	3.83	2.76	0.00
104.01	3.83	2.76	0.00
106.01	3.83	2.76	0.00
108.01	3.83	2.76	0.00
110.01	3.83	2.76	0.00
112.01	3.83	2.76	0.00
114.01	3.83	2.76	0.00
116.01	3.83	2.76	0.00
118.01	3.83	2.76	0.00

Summary for Subcatchment 300B: 300B

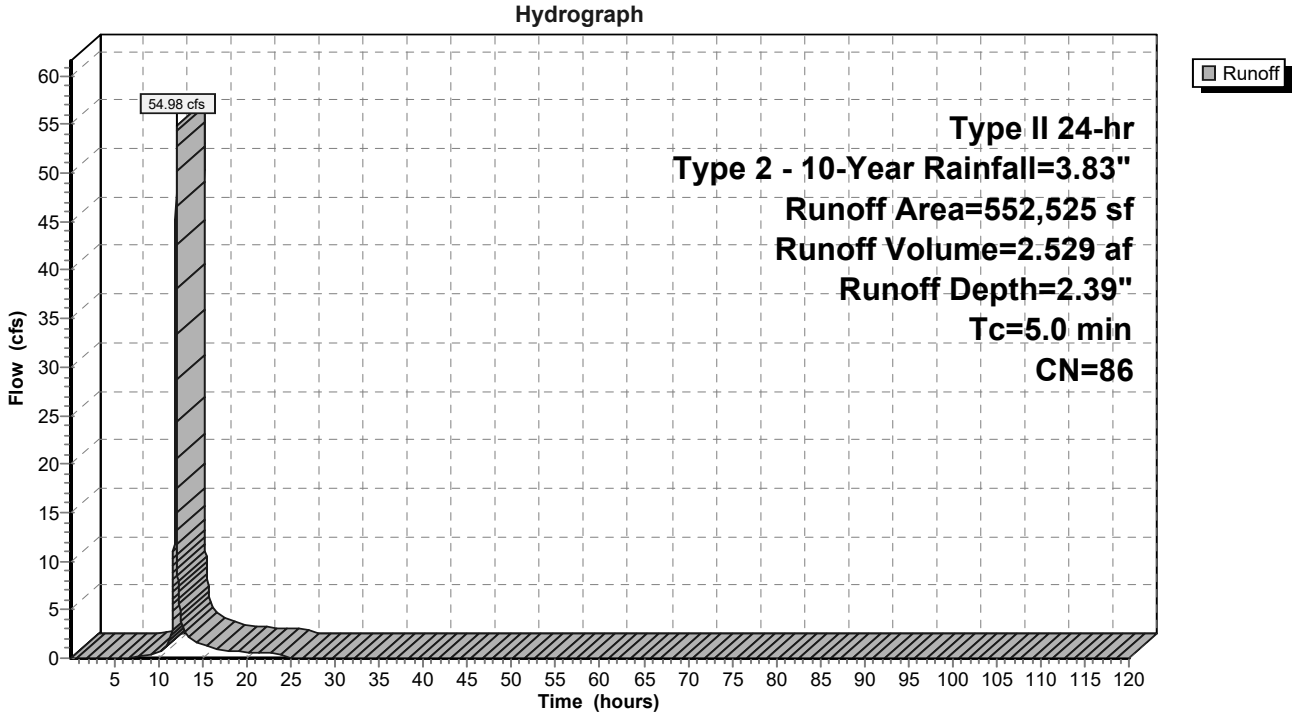
Runoff = 54.98 cfs @ 11.96 hrs, Volume= 2.529 af, Depth= 2.39"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.01	0.15
10.01	0.69	0.07	**0.62**
12.01	2.55	1.28	**42.63**
14.01	3.14	1.78	1.62
16.01	3.37	1.98	1.01
18.01	3.53	2.12	0.79
20.01	3.65	2.23	0.58
22.01	**3.74**	**2.31**	0.53
24.01	**3.83**	**2.39**	0.49
26.01	3.83	2.39	0.00
28.01	3.83	2.39	0.00
30.01	3.83	2.39	0.00
32.01	3.83	2.39	0.00
34.01	3.83	2.39	0.00
36.01	3.83	2.39	0.00
38.01	3.83	2.39	0.00
40.01	3.83	2.39	0.00
42.01	3.83	2.39	0.00
44.01	3.83	2.39	0.00
46.01	3.83	2.39	0.00
48.01	3.83	2.39	0.00
50.01	3.83	2.39	0.00
52.01	3.83	2.39	0.00
54.01	3.83	2.39	0.00
56.01	3.83	2.39	0.00
58.01	3.83	2.39	0.00
60.01	3.83	2.39	0.00
62.01	3.83	2.39	0.00
64.01	3.83	2.39	0.00
66.01	3.83	2.39	0.00
68.01	3.83	2.39	0.00
70.01	3.83	2.39	0.00
72.01	3.83	2.39	0.00
74.01	3.83	2.39	0.00
76.01	3.83	2.39	0.00
78.01	3.83	2.39	0.00
80.01	3.83	2.39	0.00
82.01	3.83	2.39	0.00
84.01	3.83	2.39	0.00
86.01	3.83	2.39	0.00
88.01	3.83	2.39	0.00
90.01	3.83	2.39	0.00
92.01	3.83	2.39	0.00
94.01	3.83	2.39	0.00
96.01	3.83	2.39	0.00
98.01	3.83	2.39	0.00
100.01	3.83	2.39	0.00
102.01	3.83	2.39	0.00
104.01	3.83	2.39	0.00
106.01	3.83	2.39	0.00
108.01	3.83	2.39	0.00
110.01	3.83	2.39	0.00
112.01	3.83	2.39	0.00
114.01	3.83	2.39	0.00
116.01	3.83	2.39	0.00
118.01	3.83	2.39	0.00

Summary for Subcatchment 400A: 400A

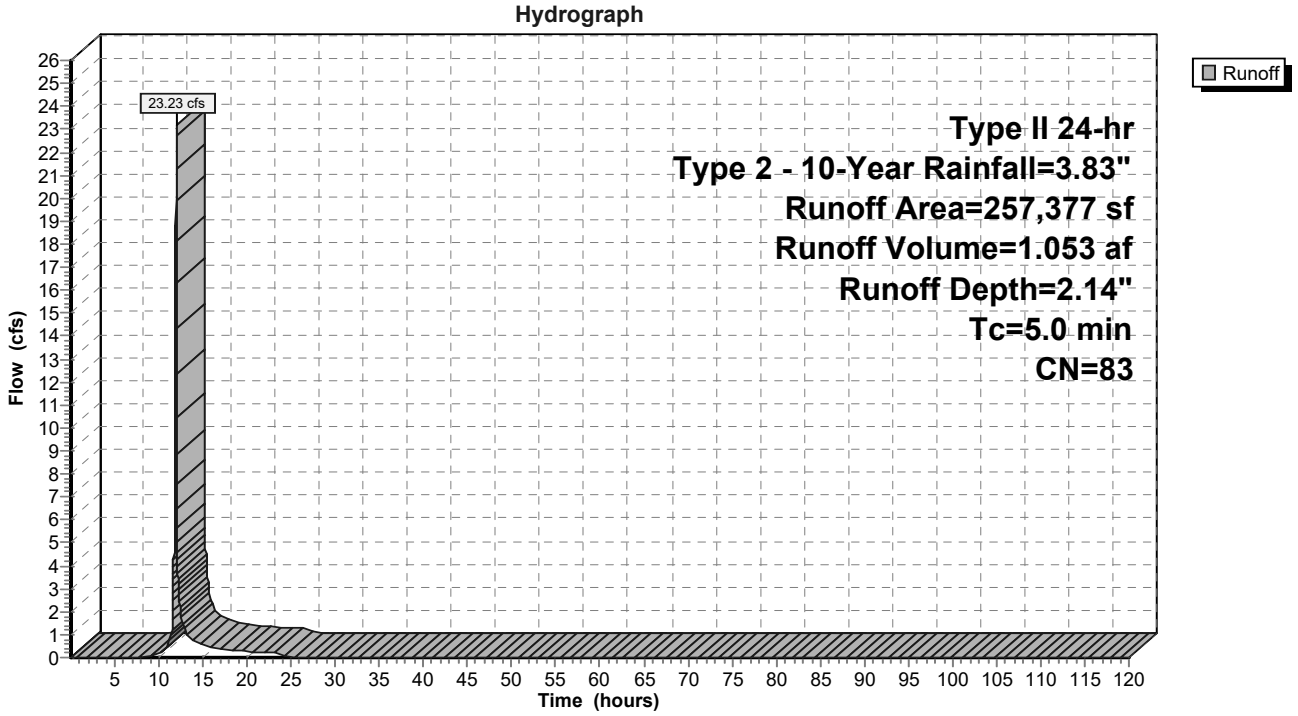
Runoff = 23.23 cfs @ 11.96 hrs, Volume= 1.053 af, Depth= 2.14"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.02
10.01	0.69	0.03	**0.20**
12.01	2.55	1.09	**18.19**
14.01	3.14	1.56	0.71
16.01	3.37	1.75	0.45
18.01	3.53	1.88	0.35
20.01	3.65	1.98	0.26
22.01	**3.74**	**2.06**	0.23
24.01	**3.83**	**2.14**	0.22
26.01	3.83	2.14	0.00
28.01	3.83	2.14	0.00
30.01	3.83	2.14	0.00
32.01	3.83	2.14	0.00
34.01	3.83	2.14	0.00
36.01	3.83	2.14	0.00
38.01	3.83	2.14	0.00
40.01	3.83	2.14	0.00
42.01	3.83	2.14	0.00
44.01	3.83	2.14	0.00
46.01	3.83	2.14	0.00
48.01	3.83	2.14	0.00
50.01	3.83	2.14	0.00
52.01	3.83	2.14	0.00
54.01	3.83	2.14	0.00
56.01	3.83	2.14	0.00
58.01	3.83	2.14	0.00
60.01	3.83	2.14	0.00
62.01	3.83	2.14	0.00
64.01	3.83	2.14	0.00
66.01	3.83	2.14	0.00
68.01	3.83	2.14	0.00
70.01	3.83	2.14	0.00
72.01	3.83	2.14	0.00
74.01	3.83	2.14	0.00
76.01	3.83	2.14	0.00
78.01	3.83	2.14	0.00
80.01	3.83	2.14	0.00
82.01	3.83	2.14	0.00
84.01	3.83	2.14	0.00
86.01	3.83	2.14	0.00
88.01	3.83	2.14	0.00
90.01	3.83	2.14	0.00
92.01	3.83	2.14	0.00
94.01	3.83	2.14	0.00
96.01	3.83	2.14	0.00
98.01	3.83	2.14	0.00
100.01	3.83	2.14	0.00
102.01	3.83	2.14	0.00
104.01	3.83	2.14	0.00
106.01	3.83	2.14	0.00
108.01	3.83	2.14	0.00
110.01	3.83	2.14	0.00
112.01	3.83	2.14	0.00
114.01	3.83	2.14	0.00
116.01	3.83	2.14	0.00
118.01	3.83	2.14	0.00

Summary for Subcatchment 500A: 500A

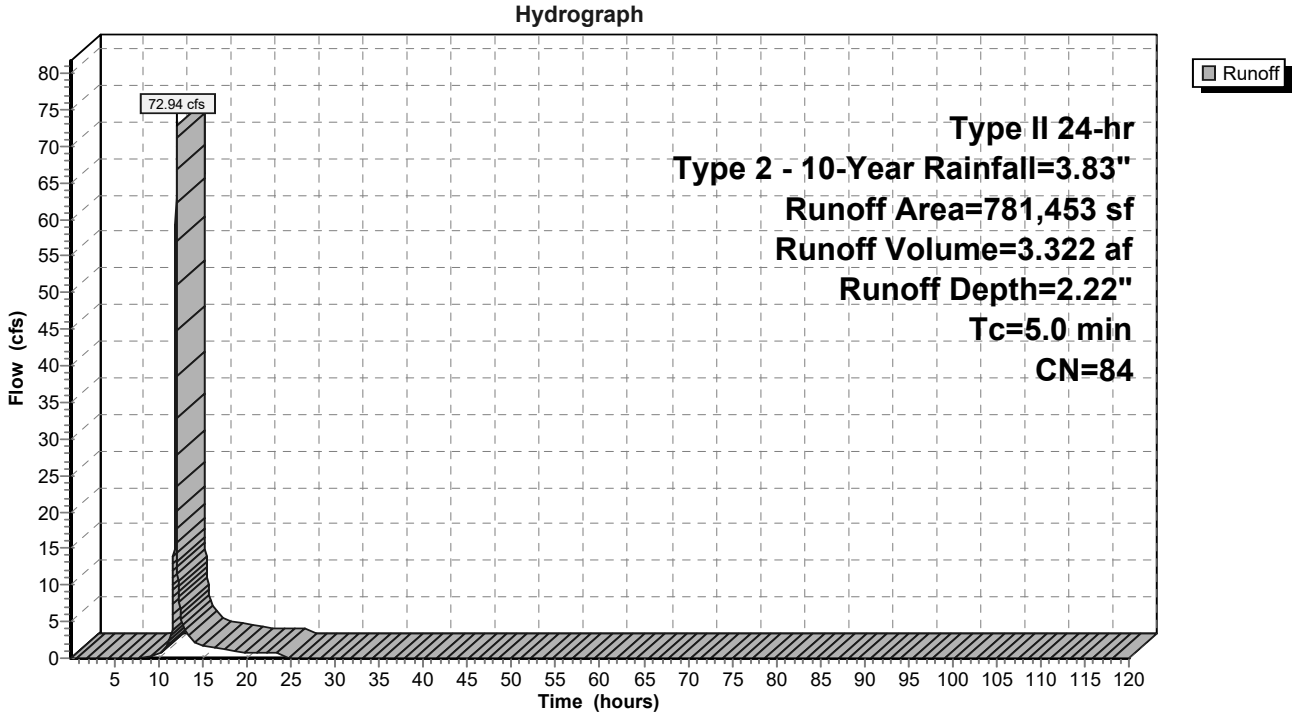
Runoff = 72.94 cfs @ 11.96 hrs, Volume= 3.322 af, Depth= 2.22"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 10-Year Rainfall=3.83"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.08	0.00	0.00
4.01	0.18	0.00	0.00
6.01	0.31	0.00	0.00
8.01	0.46	0.00	0.11
10.01	0.69	0.04	**0.69**
12.01	2.55	1.15	**56.93**
14.01	3.14	1.63	2.21
16.01	3.37	1.83	1.38
18.01	3.53	1.96	1.08
20.01	3.65	2.06	0.79
22.01	**3.74**	**2.15**	0.72
24.01	**3.83**	**2.22**	0.67
26.01	3.83	2.22	0.00
28.01	3.83	2.22	0.00
30.01	3.83	2.22	0.00
32.01	3.83	2.22	0.00
34.01	3.83	2.22	0.00
36.01	3.83	2.22	0.00
38.01	3.83	2.22	0.00
40.01	3.83	2.22	0.00
42.01	3.83	2.22	0.00
44.01	3.83	2.22	0.00
46.01	3.83	2.22	0.00
48.01	3.83	2.22	0.00
50.01	3.83	2.22	0.00
52.01	3.83	2.22	0.00
54.01	3.83	2.22	0.00
56.01	3.83	2.22	0.00
58.01	3.83	2.22	0.00
60.01	3.83	2.22	0.00
62.01	3.83	2.22	0.00
64.01	3.83	2.22	0.00
66.01	3.83	2.22	0.00
68.01	3.83	2.22	0.00
70.01	3.83	2.22	0.00
72.01	3.83	2.22	0.00
74.01	3.83	2.22	0.00
76.01	3.83	2.22	0.00
78.01	3.83	2.22	0.00
80.01	3.83	2.22	0.00
82.01	3.83	2.22	0.00
84.01	3.83	2.22	0.00
86.01	3.83	2.22	0.00
88.01	3.83	2.22	0.00
90.01	3.83	2.22	0.00
92.01	3.83	2.22	0.00
94.01	3.83	2.22	0.00
96.01	3.83	2.22	0.00
98.01	3.83	2.22	0.00
100.01	3.83	2.22	0.00
102.01	3.83	2.22	0.00
104.01	3.83	2.22	0.00
106.01	3.83	2.22	0.00
108.01	3.83	2.22	0.00
110.01	3.83	2.22	0.00
112.01	3.83	2.22	0.00
114.01	3.83	2.22	0.00
116.01	3.83	2.22	0.00
118.01	3.83	2.22	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 2.22" for Type 2 - 10-Year event
Inflow = 100.29 cfs @ 11.96 hrs, Volume= 4.567 af
Outflow = 1.05 cfs @ 20.74 hrs, Volume= 3.577 af, Atten= 99%, Lag= 526.7 min
Primary = 1.05 cfs @ 20.74 hrs, Volume= 3.577 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 880.97' @ 20.74 hrs Surf.Area= 87,716 sf Storage= 363,404 cf (155,916 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,502.9 min (2,320.5 - 817.5)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

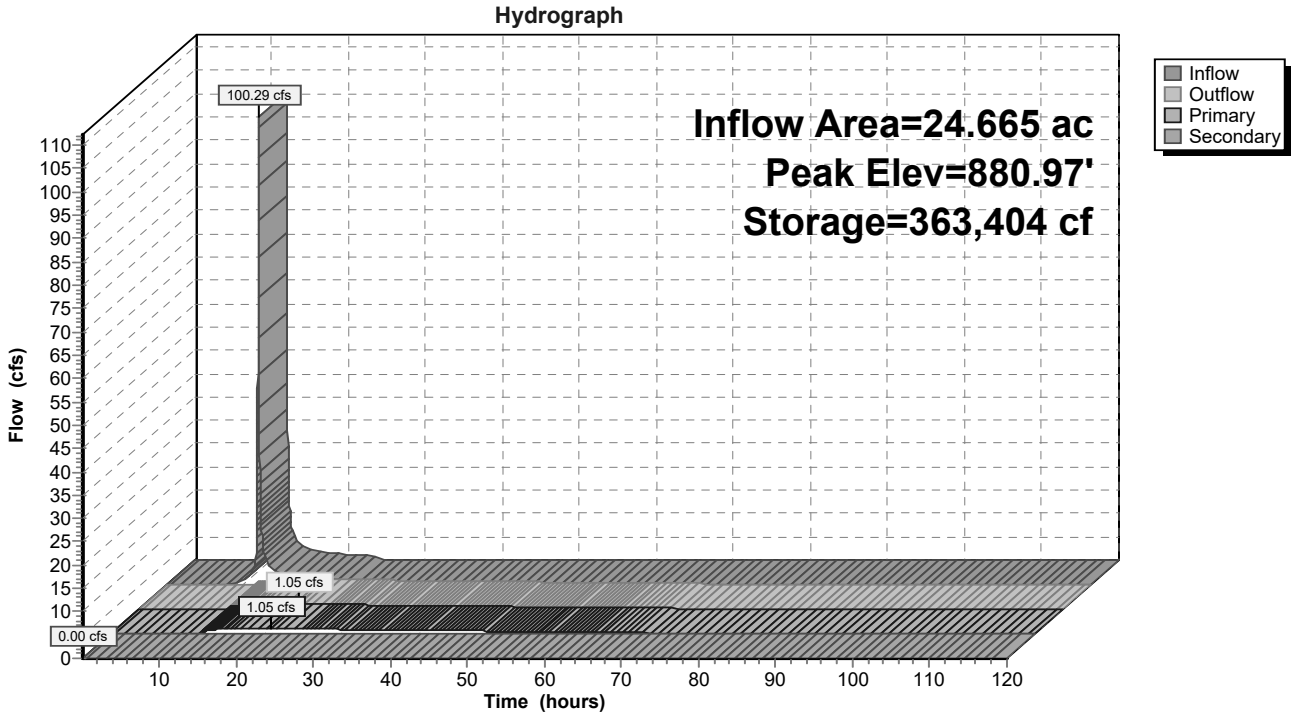
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.05 cfs @ 20.74 hrs HW=880.97' (Free Discharge)
└**1=RCP_Round 24"** (Passes 1.05 cfs of 13.22 cfs potential flow)
└**2=Orifice/Grate** (Orifice Controls 1.05 cfs @ 5.32 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow Area=24.665 ac
Peak Elev=880.97'
Storage=363,404 cf
100.29 cfs
1.05 cfs
1.05 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.00	207,488	879.00	0.00	0.00	0.00
10.01	**0.95**	211,192	879.05	0.00	0.00	0.00
15.01	**2.44**	352,713	880.85	0.99	0.99	0.00
20.01	1.08	**363,374**	**880.97**	**1.04**	**1.04**	0.00
25.01	0.00	**359,183**	**880.92**	**1.02**	**1.02**	0.00
30.01	0.00	341,582	880.72	0.93	0.93	0.00
35.01	0.00	325,675	880.53	0.84	0.84	0.00
40.01	0.00	311,496	880.36	0.74	0.74	0.00
45.01	0.00	299,078	880.21	0.64	0.64	0.00
50.01	0.00	288,450	880.08	0.54	0.54	0.00
55.01	0.00	279,648	879.97	0.44	0.44	0.00
60.01	0.00	272,724	879.88	0.33	0.33	0.00
65.01	0.00	267,552	879.81	0.25	0.25	0.00
70.01	0.00	263,717	879.76	0.18	0.18	0.00
75.01	0.00	260,807	879.72	0.14	0.14	0.00
80.01	0.00	258,595	879.70	0.11	0.11	0.00
85.01	0.00	256,825	879.67	0.09	0.09	0.00
90.01	0.00	255,366	879.65	0.07	0.07	0.00
95.01	0.00	254,162	879.64	0.06	0.06	0.00
100.01	0.00	253,170	879.62	0.05	0.05	0.00
105.01	0.00	252,352	879.61	0.04	0.04	0.00
110.01	0.00	251,678	879.60	0.03	0.03	0.00
115.01	0.00	251,117	879.60	0.03	0.03	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 2.85" for Type 2 - 10-Year event
Inflow = 25.72 cfs @ 11.96 hrs, Volume= 1.230 af
Outflow = 0.82 cfs @ 13.74 hrs, Volume= 0.971 af, Atten= 97%, Lag= 106.8 min
Primary = 0.82 cfs @ 13.74 hrs, Volume= 0.971 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 876.50' @ 13.74 hrs Surf.Area= 25,476 sf Storage= 106,228 cf (35,310 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 567.2 min (1,359.1 - 791.8)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

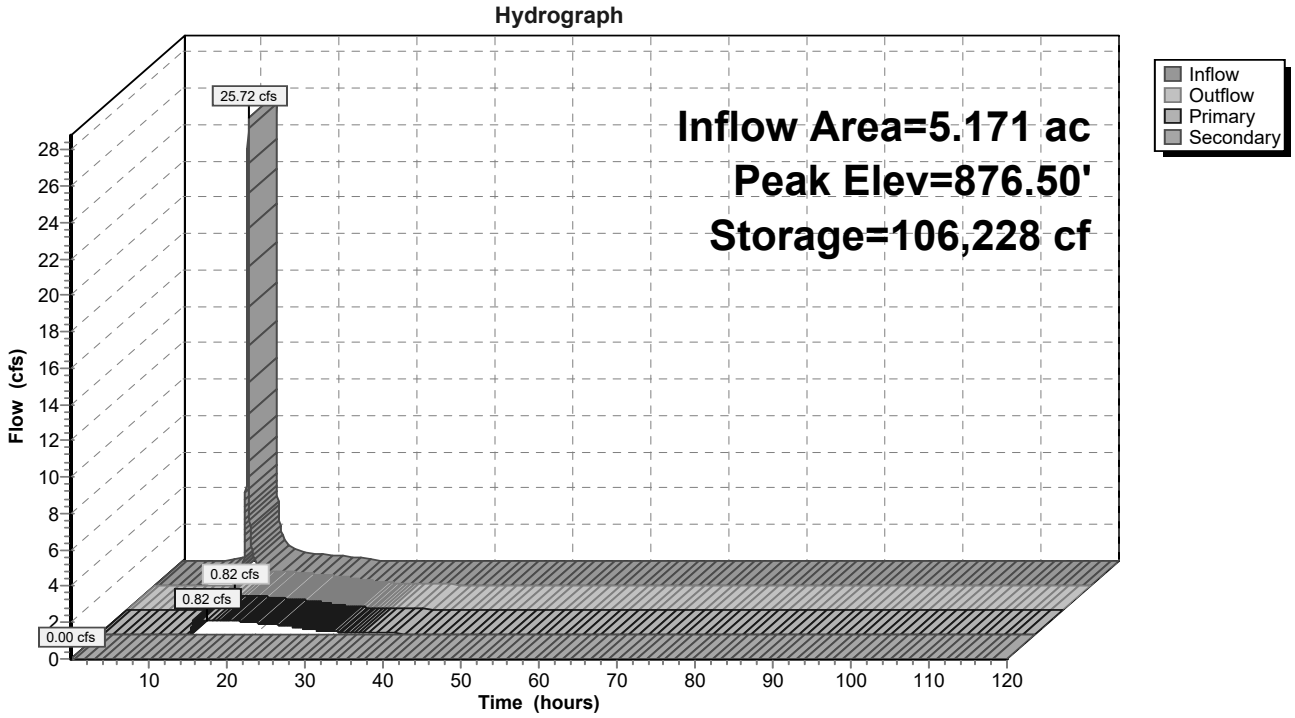
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.82 cfs @ 13.74 hrs HW=876.50' (Free Discharge)
└─**1=RCP_Round 12"** (Passes 0.82 cfs of 3.33 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 0.82 cfs @ 4.16 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.02	70,946	875.00	0.00	0.00	0.00
10.01	**0.43**	**73,916**	**875.14**	**0.00**	**0.00**	0.00
15.01	**0.57**	**105,557**	**876.47**	**0.80**	**0.80**	0.00
20.01	0.25	99,159	876.22	0.65	0.65	0.00
25.01	0.00	92,702	875.95	0.43	0.43	0.00
30.01	0.00	87,782	875.75	0.16	0.16	0.00
35.01	0.00	85,771	875.66	0.08	0.08	0.00
40.01	0.00	84,724	875.61	0.04	0.04	0.00
45.01	0.00	84,116	875.59	0.03	0.03	0.00
50.01	0.00	83,749	875.57	0.02	0.02	0.00
55.01	0.00	83,458	875.56	0.01	0.01	0.00
60.01	0.00	83,219	875.55	0.01	0.01	0.00
65.01	0.00	83,020	875.54	0.01	0.01	0.00
70.01	0.00	82,857	875.53	0.01	0.01	0.00
75.01	0.00	82,721	875.53	0.01	0.01	0.00
80.01	0.00	82,610	875.52	0.01	0.01	0.00
85.01	0.00	82,517	875.52	0.00	0.00	0.00
90.01	0.00	82,441	875.52	0.00	0.00	0.00
95.01	0.00	82,378	875.51	0.00	0.00	0.00
100.01	0.00	82,325	875.51	0.00	0.00	0.00
105.01	0.00	82,282	875.51	0.00	0.00	0.00
110.01	0.00	82,247	875.51	0.00	0.00	0.00
115.01	0.00	82,217	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 2.20" for Type 2 - 10-Year event
Inflow = 84.01 cfs @ 11.96 hrs, Volume= 4.516 af
Outflow = 0.82 cfs @ 24.05 hrs, Volume= 2.867 af, Atten= 99%, Lag= 725.7 min
Primary = 0.82 cfs @ 24.05 hrs, Volume= 2.867 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 876.33' @ 24.05 hrs Surf.Area= 125,196 sf Storage= 545,207 cf (156,123 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,741.3 min (2,676.3 - 935.1)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

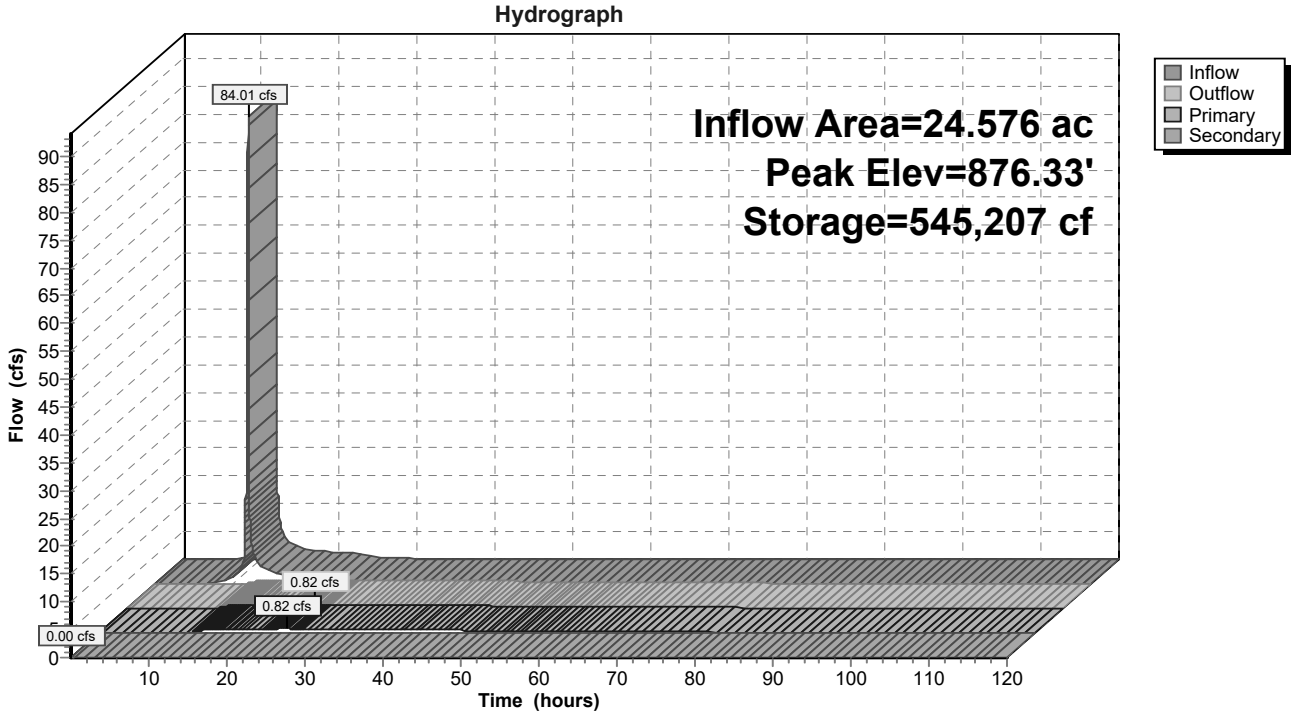
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.77 cfs @ 24.05 hrs HW=876.33' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 0.77 cfs of 7.65 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 0.72 cfs @ 3.66 fps)
  └─**3=Sharp-Crested Rectangular Weir** (Weir Controls 0.06 cfs @ 0.53 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.01	389,088	875.00	0.00	0.00	0.00
10.01	**1.08**	394,983	875.05	0.00	0.00	0.00
15.01	**2.30**	521,765	876.14	0.59	0.59	0.00
20.01	1.21	**539,825**	**876.28**	**0.69**	**0.69**	0.00
25.01	0.27	**543,558**	**876.31**	**0.76**	**0.76**	0.00
30.01	0.15	534,799	876.24	0.66	0.66	0.00
35.01	0.09	525,484	876.17	0.61	0.61	0.00
40.01	0.06	516,387	876.09	0.55	0.55	0.00
45.01	0.04	507,915	876.02	0.50	0.50	0.00
50.01	0.03	500,219	875.96	0.43	0.43	0.00
55.01	0.03	493,485	875.91	0.37	0.37	0.00
60.01	0.02	487,857	875.86	0.31	0.31	0.00
65.01	0.02	483,167	875.82	0.26	0.26	0.00
70.01	0.02	479,260	875.79	0.21	0.21	0.00
75.01	0.01	476,003	875.76	0.18	0.18	0.00
80.01	0.01	473,242	875.74	0.15	0.15	0.00
85.01	0.01	470,865	875.72	0.13	0.13	0.00
90.01	0.01	468,821	875.70	0.11	0.11	0.00
95.01	0.01	467,062	875.68	0.10	0.10	0.00
100.01	0.01	465,549	875.67	0.08	0.08	0.00
105.01	0.00	464,217	875.66	0.08	0.08	0.00
110.01	0.00	463,007	875.65	0.07	0.07	0.00
115.01	0.00	461,909	875.64	0.06	0.06	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 2.14" for Type 2 - 10-Year event
Inflow = 23.23 cfs @ 11.96 hrs, Volume= 1.053 af
Outflow = 0.37 cfs @ 17.63 hrs, Volume= 0.611 af, Atten= 98%, Lag= 340.0 min
Primary = 0.37 cfs @ 17.63 hrs, Volume= 0.611 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 877.90' @ 17.63 hrs Surf.Area= 38,836 sf Storage= 163,756 cf (33,771 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 940.8 min (1,761.5 - 820.7)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

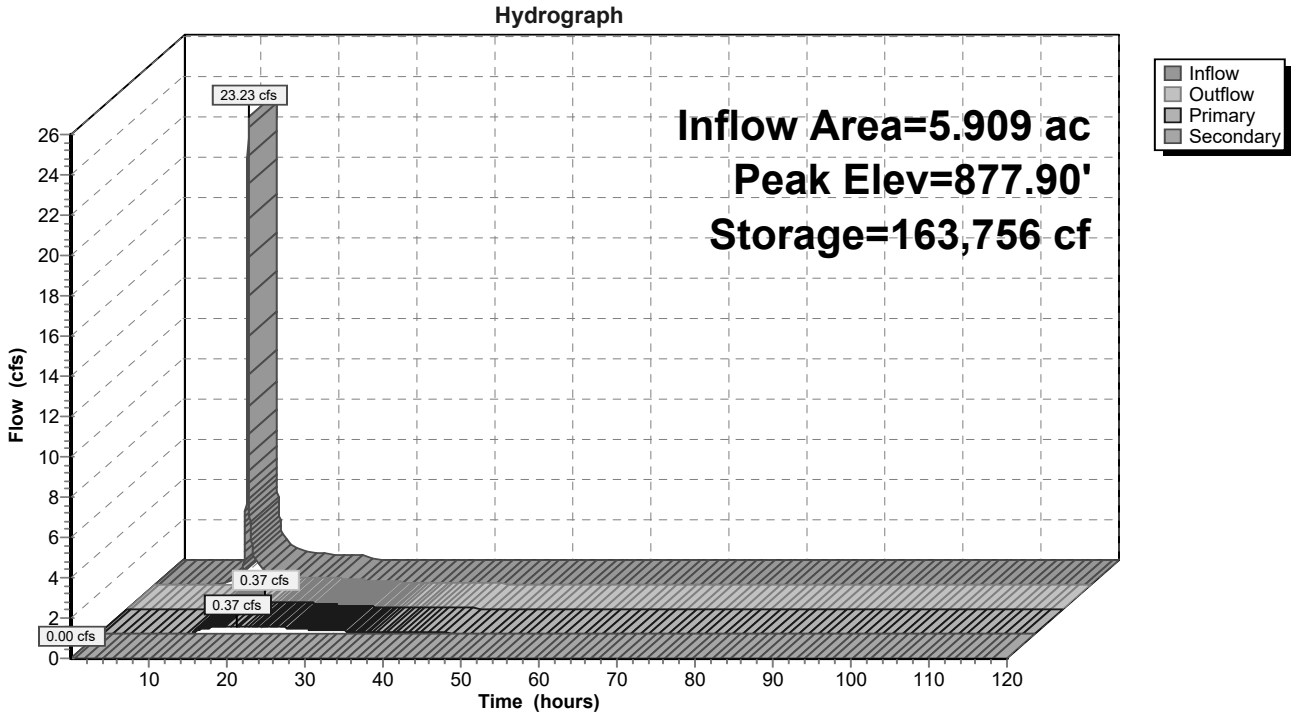
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.37 cfs @ 17.63 hrs HW=877.90' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.37 cfs of 3.79 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.37 cfs @ 2.16 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow Area=5.909 ac
Peak Elev=877.90'
Storage=163,756 cf
23.23 cfs
0.37 cfs
0.37 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.20**	130,676	877.02	0.00	0.00	0.00
15.01	**0.57**	**162,954**	**877.88**	**0.34**	**0.34**	0.00
20.01	0.26	**163,326**	**877.89**	**0.35**	**0.35**	0.00
25.01	0.00	160,985	877.83	0.27	0.27	0.00
30.01	0.00	157,295	877.74	0.15	0.15	0.00
35.01	0.00	155,139	877.68	0.09	0.09	0.00
40.01	0.00	153,757	877.64	0.06	0.06	0.00
45.01	0.00	152,798	877.62	0.04	0.04	0.00
50.01	0.00	152,134	877.60	0.03	0.03	0.00
55.01	0.00	151,632	877.59	0.03	0.03	0.00
60.01	0.00	151,210	877.58	0.02	0.02	0.00
65.01	0.00	150,855	877.57	0.02	0.02	0.00
70.01	0.00	150,556	877.56	0.02	0.02	0.00
75.01	0.00	150,304	877.55	0.01	0.01	0.00
80.01	0.00	150,091	877.55	0.01	0.01	0.00
85.01	0.00	149,913	877.54	0.01	0.01	0.00
90.01	0.00	149,762	877.54	0.01	0.01	0.00
95.01	0.00	149,636	877.53	0.01	0.01	0.00
100.01	0.00	149,529	877.53	0.01	0.01	0.00
105.01	0.00	149,439	877.53	0.00	0.00	0.00
110.01	0.00	149,363	877.53	0.00	0.00	0.00
115.01	0.00	149,300	877.53	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 2.22" for Type 2 - 10-Year event
Inflow = 72.94 cfs @ 11.96 hrs, Volume= 3.322 af
Outflow = 0.94 cfs @ 18.96 hrs, Volume= 2.566 af, Atten= 99%, Lag= 420.2 min
Primary = 0.94 cfs @ 18.96 hrs, Volume= 2.566 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 900.74' @ 18.96 hrs Surf.Area= 67,241 sf Storage= 304,891 cf (108,478 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,222.3 min (2,039.8 - 817.5)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

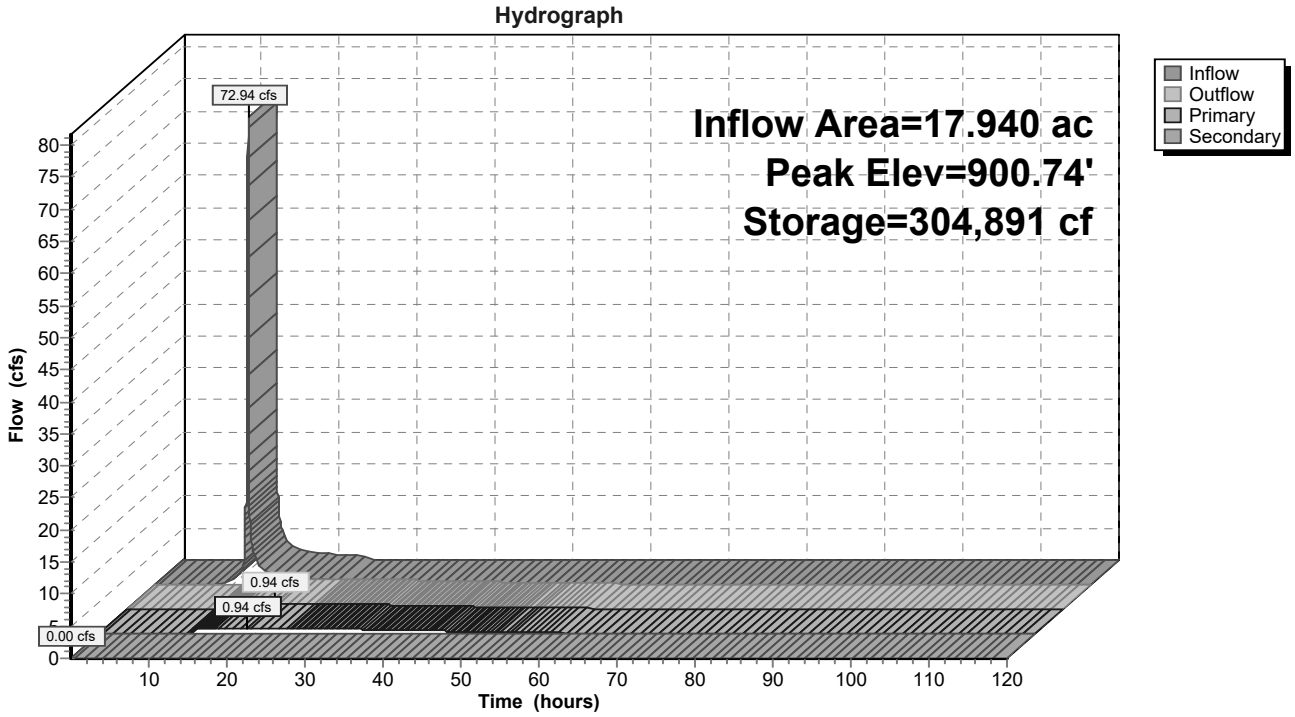
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.94 cfs @ 18.96 hrs HW=900.74' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 0.94 cfs of 11.52 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.94 cfs @ 4.80 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=900.74'
Storage=304,891 cf
72.94 cfs
0.94 cfs
0.94 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 500: 500

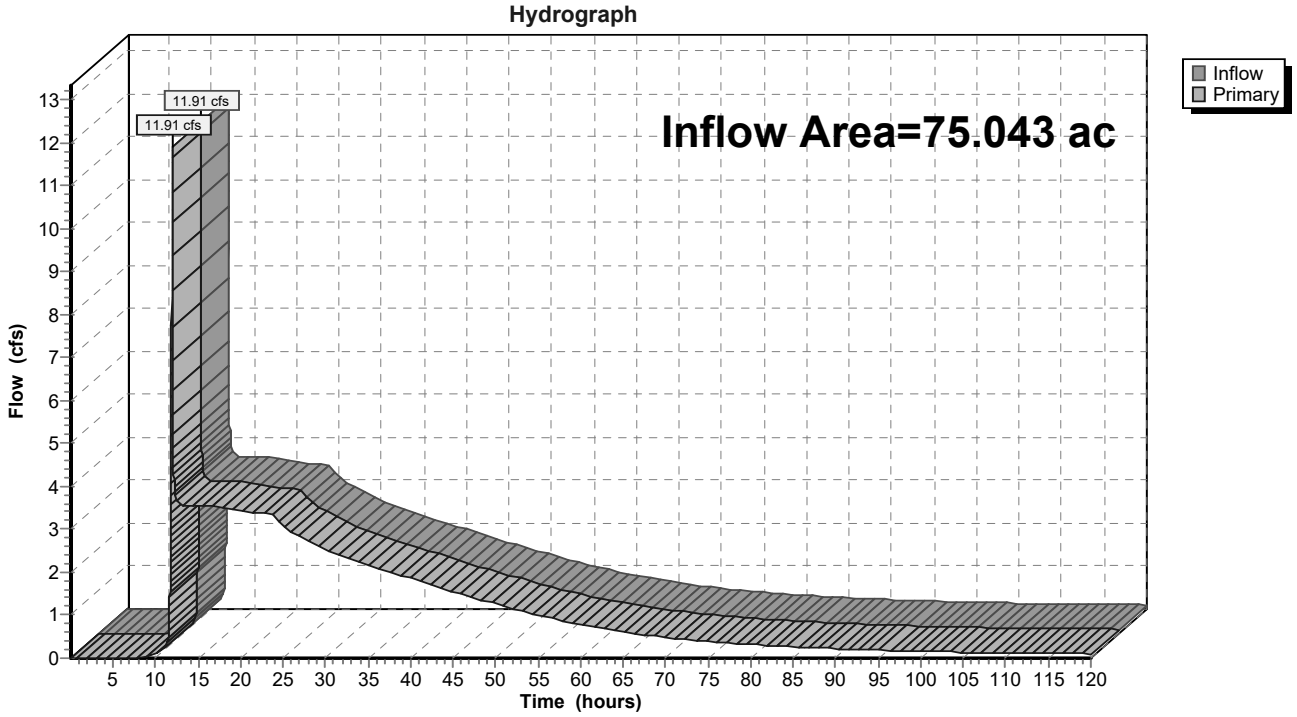
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.00	196,414	899.00	0.00	0.00	0.00
10.01	**0.69**	199,108	899.05	0.00	0.00	0.00
15.01	**1.78**	**300,204**	**900.67**	**0.91**	**0.91**	0.00
20.01	0.79	**304,613**	**900.74**	**0.94**	**0.94**	0.00
25.01	0.00	298,552	900.65	0.90	0.90	0.00
30.01	0.00	283,529	900.42	0.77	0.77	0.00
35.01	0.00	270,723	900.22	0.65	0.65	0.00
40.01	0.00	260,174	900.06	0.52	0.52	0.00
45.01	0.00	251,942	899.93	0.39	0.39	0.00
50.01	0.00	246,014	899.83	0.27	0.27	0.00
55.01	0.00	241,949	899.77	0.19	0.19	0.00
60.01	0.00	239,081	899.72	0.13	0.13	0.00
65.01	0.00	237,025	899.69	0.10	0.10	0.00
70.01	0.00	235,434	899.66	0.08	0.08	0.00
75.01	0.00	234,183	899.64	0.06	0.06	0.00
80.01	0.00	233,200	899.62	0.05	0.05	0.00
85.01	0.00	232,427	899.61	0.04	0.04	0.00
90.01	0.00	231,820	899.60	0.03	0.03	0.00
95.01	0.00	231,303	899.59	0.03	0.03	0.00
100.01	0.00	230,830	899.58	0.03	0.03	0.00
105.01	0.00	230,399	899.58	0.02	0.02	0.00
110.01	0.00	230,004	899.57	0.02	0.02	0.00
115.01	0.00	229,643	899.56	0.02	0.02	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 1.67" for Type 2 - 10-Year event
Inflow = 11.91 cfs @ 11.97 hrs, Volume= 10.462 af
Primary = 11.91 cfs @ 11.97 hrs, Volume= 10.462 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.01	0.00	0.01
10.01	**0.09**	0.00	**0.09**
12.01	**10.16**	0.00	**10.16**
14.01	3.52	0.00	3.52
16.01	3.54	0.00	3.54
18.01	3.52	0.00	3.52
20.01	3.44	0.00	3.44
22.01	3.39	0.00	3.39
24.01	3.37	0.00	3.37
26.01	2.93	0.00	2.93
28.01	2.71	0.00	2.71
30.01	2.53	0.00	2.53
32.01	2.38	0.00	2.38
34.01	2.23	0.00	2.23
36.01	2.11	0.00	2.11
38.01	1.98	0.00	1.98
40.01	1.86	0.00	1.86
42.01	1.74	0.00	1.74
44.01	1.61	0.00	1.61
46.01	1.49	0.00	1.49
48.01	1.37	0.00	1.37
50.01	1.26	0.00	1.26
52.01	1.16	0.00	1.16
54.01	1.06	0.00	1.06
56.01	0.96	0.00	0.96
58.01	0.87	0.00	0.87
60.01	0.79	0.00	0.79
62.01	0.71	0.00	0.71
64.01	0.64	0.00	0.64
66.01	0.58	0.00	0.58
68.01	0.53	0.00	0.53
70.01	0.48	0.00	0.48
72.01	0.44	0.00	0.44
74.01	0.40	0.00	0.40
76.01	0.37	0.00	0.37
78.01	0.34	0.00	0.34
80.01	0.32	0.00	0.32
82.01	0.29	0.00	0.29
84.01	0.27	0.00	0.27
86.01	0.25	0.00	0.25
88.01	0.24	0.00	0.24
90.01	0.22	0.00	0.22
92.01	0.21	0.00	0.21
94.01	0.19	0.00	0.19
96.01	0.18	0.00	0.18
98.01	0.17	0.00	0.17
100.01	0.16	0.00	0.16
102.01	0.15	0.00	0.15
104.01	0.15	0.00	0.15
106.01	0.14	0.00	0.14
108.01	0.13	0.00	0.13
110.01	0.12	0.00	0.12
112.01	0.12	0.00	0.12
114.01	0.11	0.00	0.11
116.01	0.11	0.00	0.11
118.01	0.11	0.00	0.11

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=2.91"
Tc=5.0 min CN=83 Runoff=13.44 cfs 0.618 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=2.91"
Tc=5.0 min CN=83 Runoff=0.78 cfs 0.036 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=3.01"
Tc=5.0 min CN=84 Runoff=133.85 cfs 6.179 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=3.70"
Tc=5.0 min CN=91 Runoff=32.77 cfs 1.595 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=3.60"
Tc=5.0 min CN=90 Runoff=37.22 cfs 1.794 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=3.20"
Tc=5.0 min CN=86 Runoff=72.35 cfs 3.380 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=2.91"
Tc=5.0 min CN=83 Runoff=31.23 cfs 1.434 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=3.01"
Tc=5.0 min CN=84 Runoff=97.35 cfs 4.494 af

Pond 100: 100 Peak Elev=881.62' Storage=422,396 cf Inflow=133.85 cfs 6.179 af
Primary=1.29 cfs 5.152 af Secondary=0.00 cfs 0.000 af Outflow=1.29 cfs 5.152 af

Pond 200: 200 Peak Elev=876.92' Storage=117,281 cf Inflow=32.77 cfs 1.595 af
Primary=1.02 cfs 1.336 af Secondary=0.00 cfs 0.000 af Outflow=1.02 cfs 1.336 af

Pond 300: 300 Peak Elev=876.51' Storage=568,818 cf Inflow=109.63 cfs 6.164 af
Primary=2.12 cfs 4.491 af Secondary=0.00 cfs 0.000 af Outflow=2.12 cfs 4.491 af

Pond 400: 400 Peak Elev=878.15' Storage=173,617 cf Inflow=31.23 cfs 1.434 af
Primary=0.60 cfs 0.991 af Secondary=0.00 cfs 0.000 af Outflow=0.60 cfs 0.991 af

Pond 500: 500 Peak Elev=901.33' Storage=345,662 cf Inflow=97.35 cfs 4.494 af
Primary=1.19 cfs 3.722 af Secondary=0.00 cfs 0.000 af Outflow=1.19 cfs 3.722 af

Link 1: OFFSITE Inflow=16.62 cfs 15.354 af
Primary=16.62 cfs 15.354 af

Total Runoff Area = 75.043 ac Runoff Volume = 19.529 af Average Runoff Depth = 3.12"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

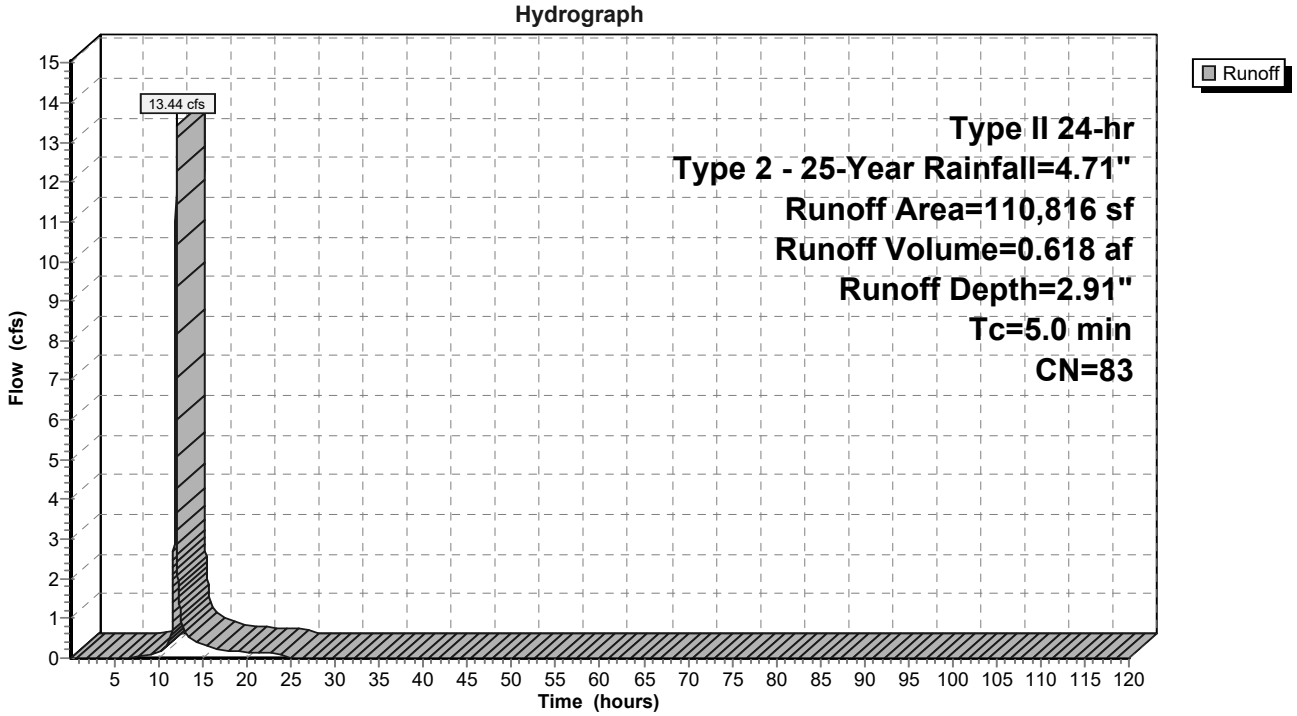
Runoff = 13.44 cfs @ 11.96 hrs, Volume= 0.618 af, Depth= 2.91"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.01	0.03
10.01	0.85	0.08	**0.15**
12.01	3.13	1.55	**10.43**
14.01	3.86	2.17	0.40
16.01	4.15	2.41	0.25
18.01	4.34	2.58	0.19
20.01	4.48	2.71	0.14
22.01	**4.60**	**2.82**	0.13
24.01	**4.71**	**2.91**	0.12
26.01	4.71	2.91	0.00
28.01	4.71	2.91	0.00
30.01	4.71	2.91	0.00
32.01	4.71	2.91	0.00
34.01	4.71	2.91	0.00
36.01	4.71	2.91	0.00
38.01	4.71	2.91	0.00
40.01	4.71	2.91	0.00
42.01	4.71	2.91	0.00
44.01	4.71	2.91	0.00
46.01	4.71	2.91	0.00
48.01	4.71	2.91	0.00
50.01	4.71	2.91	0.00
52.01	4.71	2.91	0.00
54.01	4.71	2.91	0.00
56.01	4.71	2.91	0.00
58.01	4.71	2.91	0.00
60.01	4.71	2.91	0.00
62.01	4.71	2.91	0.00
64.01	4.71	2.91	0.00
66.01	4.71	2.91	0.00
68.01	4.71	2.91	0.00
70.01	4.71	2.91	0.00
72.01	4.71	2.91	0.00
74.01	4.71	2.91	0.00
76.01	4.71	2.91	0.00
78.01	4.71	2.91	0.00
80.01	4.71	2.91	0.00
82.01	4.71	2.91	0.00
84.01	4.71	2.91	0.00
86.01	4.71	2.91	0.00
88.01	4.71	2.91	0.00
90.01	4.71	2.91	0.00
92.01	4.71	2.91	0.00
94.01	4.71	2.91	0.00
96.01	4.71	2.91	0.00
98.01	4.71	2.91	0.00
100.01	4.71	2.91	0.00
102.01	4.71	2.91	0.00
104.01	4.71	2.91	0.00
106.01	4.71	2.91	0.00
108.01	4.71	2.91	0.00
110.01	4.71	2.91	0.00
112.01	4.71	2.91	0.00
114.01	4.71	2.91	0.00
116.01	4.71	2.91	0.00
118.01	4.71	2.91	0.00

Summary for Subcatchment 2A: 2A

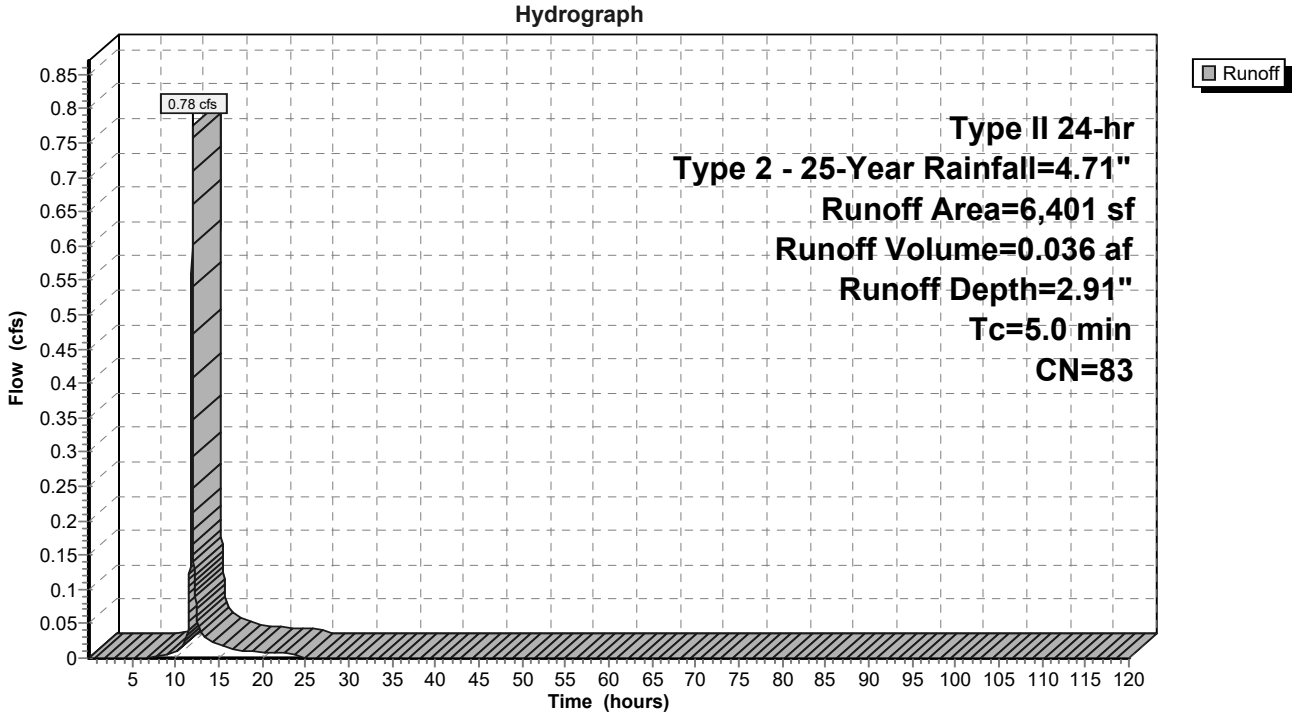
Runoff = 0.78 cfs @ 11.96 hrs, Volume= 0.036 af, Depth= 2.91"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.01	0.00
10.01	0.85	0.08	**0.01**
12.01	3.13	1.55	**0.60**
14.01	3.86	2.17	0.02
16.01	4.15	2.41	0.01
18.01	4.34	2.58	0.01
20.01	4.48	2.71	0.01
22.01	**4.60**	**2.82**	0.01
24.01	**4.71**	**2.91**	0.01
26.01	4.71	2.91	0.00
28.01	4.71	2.91	0.00
30.01	4.71	2.91	0.00
32.01	4.71	2.91	0.00
34.01	4.71	2.91	0.00
36.01	4.71	2.91	0.00
38.01	4.71	2.91	0.00
40.01	4.71	2.91	0.00
42.01	4.71	2.91	0.00
44.01	4.71	2.91	0.00
46.01	4.71	2.91	0.00
48.01	4.71	2.91	0.00
50.01	4.71	2.91	0.00
52.01	4.71	2.91	0.00
54.01	4.71	2.91	0.00
56.01	4.71	2.91	0.00
58.01	4.71	2.91	0.00
60.01	4.71	2.91	0.00
62.01	4.71	2.91	0.00
64.01	4.71	2.91	0.00
66.01	4.71	2.91	0.00
68.01	4.71	2.91	0.00
70.01	4.71	2.91	0.00
72.01	4.71	2.91	0.00
74.01	4.71	2.91	0.00
76.01	4.71	2.91	0.00
78.01	4.71	2.91	0.00
80.01	4.71	2.91	0.00
82.01	4.71	2.91	0.00
84.01	4.71	2.91	0.00
86.01	4.71	2.91	0.00
88.01	4.71	2.91	0.00
90.01	4.71	2.91	0.00
92.01	4.71	2.91	0.00
94.01	4.71	2.91	0.00
96.01	4.71	2.91	0.00
98.01	4.71	2.91	0.00
100.01	4.71	2.91	0.00
102.01	4.71	2.91	0.00
104.01	4.71	2.91	0.00
106.01	4.71	2.91	0.00
108.01	4.71	2.91	0.00
110.01	4.71	2.91	0.00
112.01	4.71	2.91	0.00
114.01	4.71	2.91	0.00
116.01	4.71	2.91	0.00
118.01	4.71	2.91	0.00

Summary for Subcatchment 100A: 100A

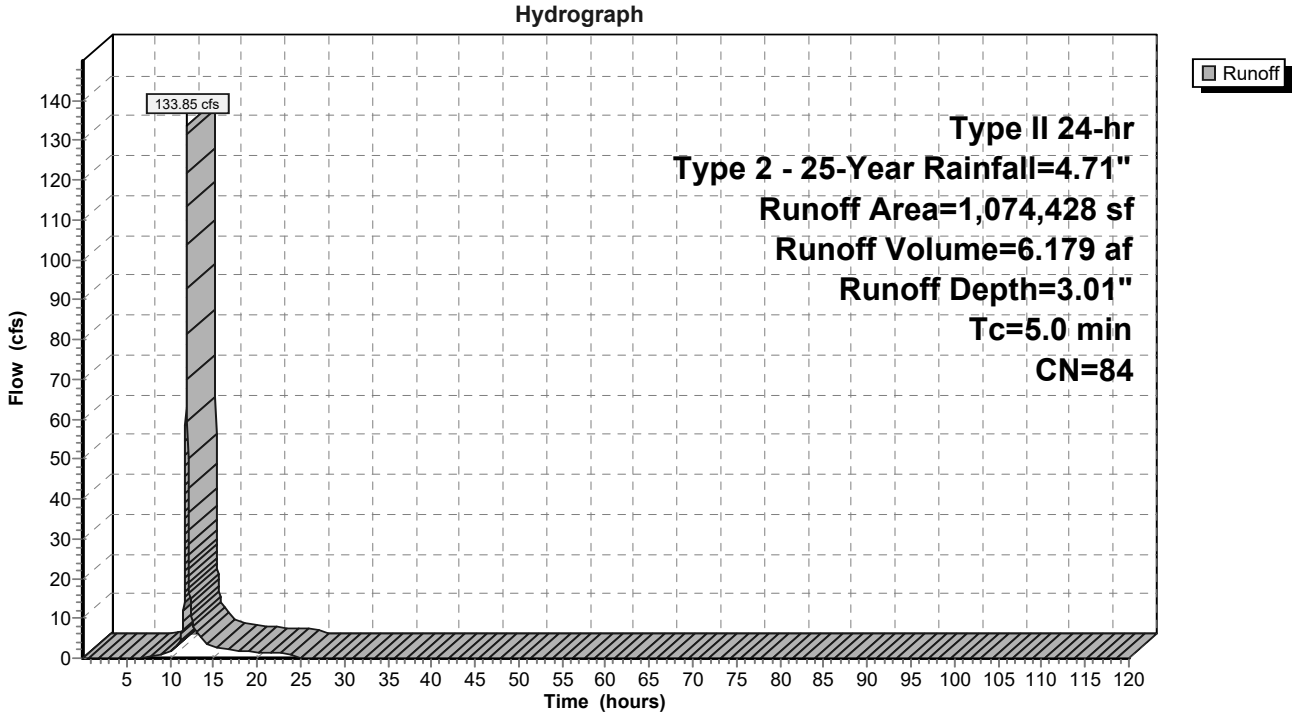
Runoff = 133.85 cfs @ 11.96 hrs, Volume= 6.179 af, Depth= 3.01"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.02	0.42
10.01	0.85	0.09	**1.60**
12.01	3.13	1.63	**103.59**
14.01	3.86	2.25	3.93
16.01	4.15	2.50	2.44
18.01	4.34	2.67	1.90
20.01	4.48	2.80	1.39
22.01	**4.60**	**2.91**	1.27
24.01	**4.71**	**3.01**	1.17
26.01	4.71	3.01	0.00
28.01	4.71	3.01	0.00
30.01	4.71	3.01	0.00
32.01	4.71	3.01	0.00
34.01	4.71	3.01	0.00
36.01	4.71	3.01	0.00
38.01	4.71	3.01	0.00
40.01	4.71	3.01	0.00
42.01	4.71	3.01	0.00
44.01	4.71	3.01	0.00
46.01	4.71	3.01	0.00
48.01	4.71	3.01	0.00
50.01	4.71	3.01	0.00
52.01	4.71	3.01	0.00
54.01	4.71	3.01	0.00
56.01	4.71	3.01	0.00
58.01	4.71	3.01	0.00
60.01	4.71	3.01	0.00
62.01	4.71	3.01	0.00
64.01	4.71	3.01	0.00
66.01	4.71	3.01	0.00
68.01	4.71	3.01	0.00
70.01	4.71	3.01	0.00
72.01	4.71	3.01	0.00
74.01	4.71	3.01	0.00
76.01	4.71	3.01	0.00
78.01	4.71	3.01	0.00
80.01	4.71	3.01	0.00
82.01	4.71	3.01	0.00
84.01	4.71	3.01	0.00
86.01	4.71	3.01	0.00
88.01	4.71	3.01	0.00
90.01	4.71	3.01	0.00
92.01	4.71	3.01	0.00
94.01	4.71	3.01	0.00
96.01	4.71	3.01	0.00
98.01	4.71	3.01	0.00
100.01	4.71	3.01	0.00
102.01	4.71	3.01	0.00
104.01	4.71	3.01	0.00
106.01	4.71	3.01	0.00
108.01	4.71	3.01	0.00
110.01	4.71	3.01	0.00
112.01	4.71	3.01	0.00
114.01	4.71	3.01	0.00
116.01	4.71	3.01	0.00
118.01	4.71	3.01	0.00

Summary for Subcatchment 200A: 200A

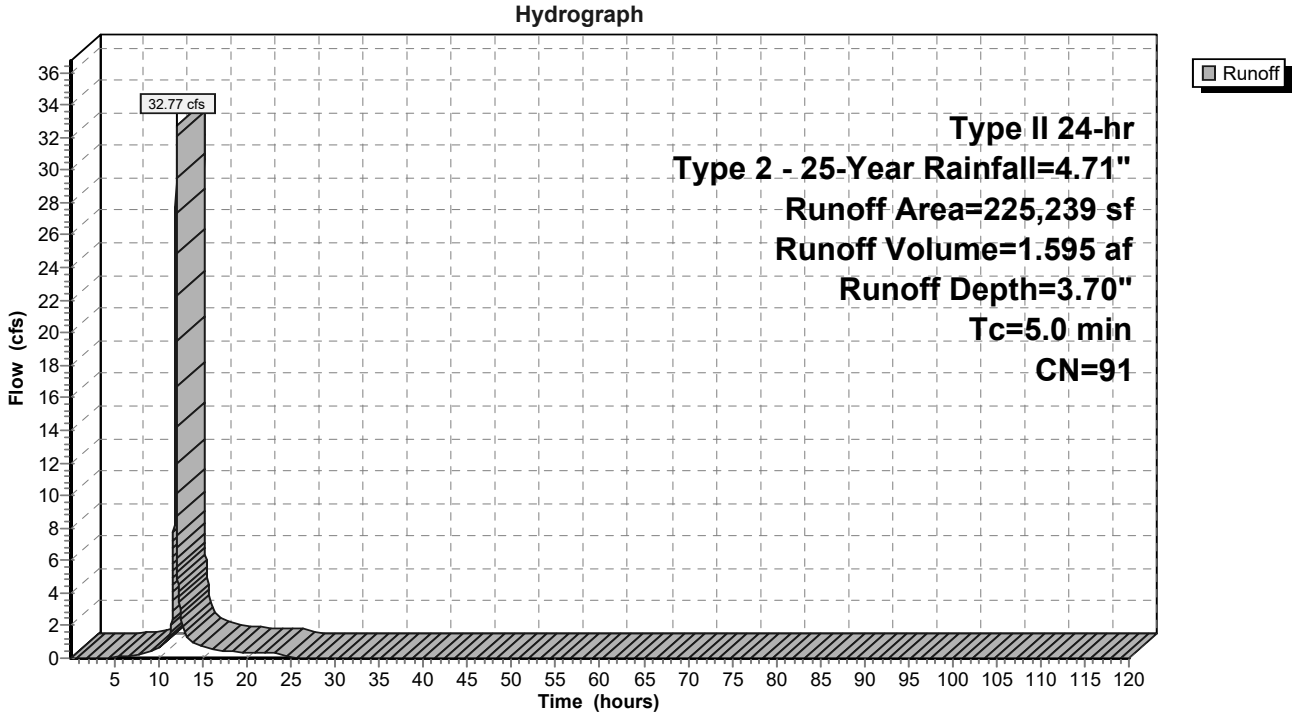
Runoff = 32.77 cfs @ 11.96 hrs, Volume= 1.595 af, Depth= 3.70"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.02
6.01	0.38	0.03	0.12
8.01	0.57	0.10	0.25
10.01	0.85	0.26	**0.60**
12.01	3.13	2.19	**24.90**
14.01	3.86	2.89	0.90
16.01	4.15	3.16	0.55
18.01	4.34	3.34	0.43
20.01	4.48	3.48	0.31
22.01	**4.60**	**3.60**	0.29
24.01	**4.71**	**3.70**	0.26
26.01	4.71	3.70	0.00
28.01	4.71	3.70	0.00
30.01	4.71	3.70	0.00
32.01	4.71	3.70	0.00
34.01	4.71	3.70	0.00
36.01	4.71	3.70	0.00
38.01	4.71	3.70	0.00
40.01	4.71	3.70	0.00
42.01	4.71	3.70	0.00
44.01	4.71	3.70	0.00
46.01	4.71	3.70	0.00
48.01	4.71	3.70	0.00
50.01	4.71	3.70	0.00
52.01	4.71	3.70	0.00
54.01	4.71	3.70	0.00
56.01	4.71	3.70	0.00
58.01	4.71	3.70	0.00
60.01	4.71	3.70	0.00
62.01	4.71	3.70	0.00
64.01	4.71	3.70	0.00
66.01	4.71	3.70	0.00
68.01	4.71	3.70	0.00
70.01	4.71	3.70	0.00
72.01	4.71	3.70	0.00
74.01	4.71	3.70	0.00
76.01	4.71	3.70	0.00
78.01	4.71	3.70	0.00
80.01	4.71	3.70	0.00
82.01	4.71	3.70	0.00
84.01	4.71	3.70	0.00
86.01	4.71	3.70	0.00
88.01	4.71	3.70	0.00
90.01	4.71	3.70	0.00
92.01	4.71	3.70	0.00
94.01	4.71	3.70	0.00
96.01	4.71	3.70	0.00
98.01	4.71	3.70	0.00
100.01	4.71	3.70	0.00
102.01	4.71	3.70	0.00
104.01	4.71	3.70	0.00
106.01	4.71	3.70	0.00
108.01	4.71	3.70	0.00
110.01	4.71	3.70	0.00
112.01	4.71	3.70	0.00
114.01	4.71	3.70	0.00
116.01	4.71	3.70	0.00
118.01	4.71	3.70	0.00

Summary for Subcatchment 300A: 300A

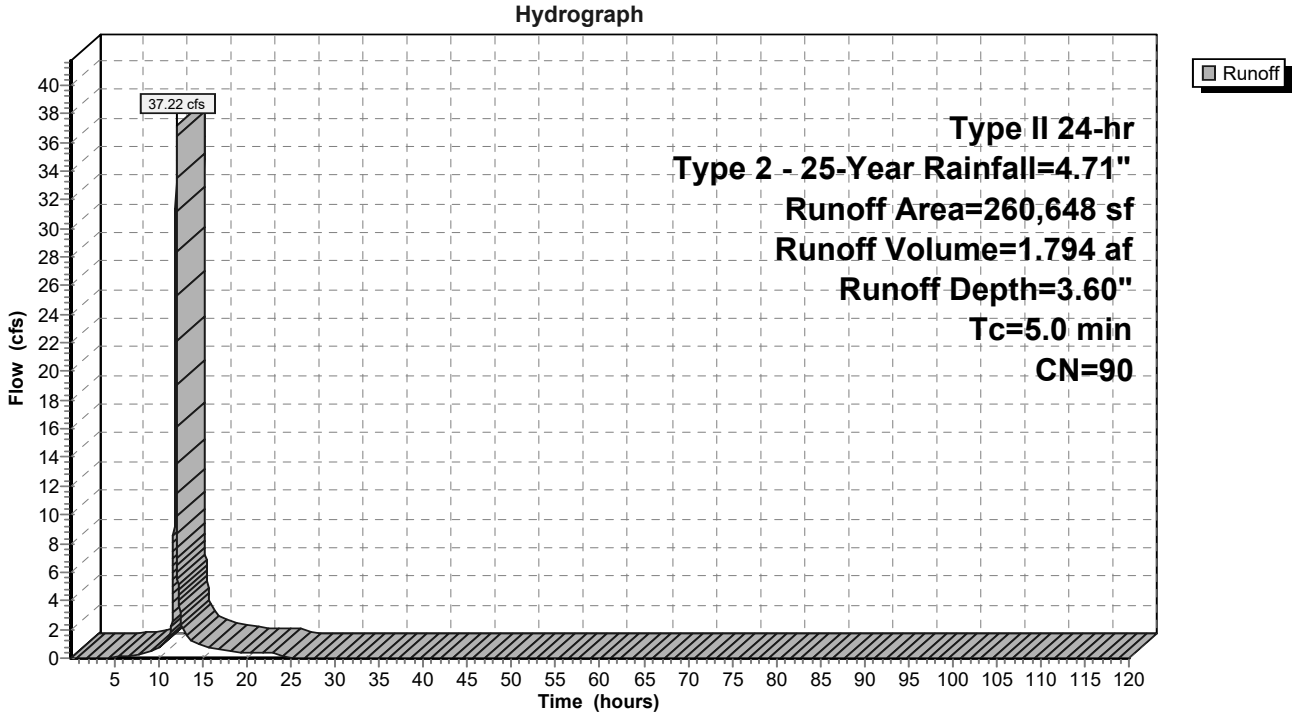
Runoff = 37.22 cfs @ 11.96 hrs, Volume= 1.794 af, Depth= 3.60"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.02	0.11
8.01	0.57	0.08	0.26
10.01	0.85	0.23	**0.65**
12.01	3.13	2.11	**28.35**
14.01	3.86	2.79	1.03
16.01	4.15	3.06	0.63
18.01	4.34	3.24	0.49
20.01	4.48	3.38	0.36
22.01	**4.60**	**3.49**	0.33
24.01	**4.71**	**3.60**	0.30
26.01	4.71	3.60	0.00
28.01	4.71	3.60	0.00
30.01	4.71	3.60	0.00
32.01	4.71	3.60	0.00
34.01	4.71	3.60	0.00
36.01	4.71	3.60	0.00
38.01	4.71	3.60	0.00
40.01	4.71	3.60	0.00
42.01	4.71	3.60	0.00
44.01	4.71	3.60	0.00
46.01	4.71	3.60	0.00
48.01	4.71	3.60	0.00
50.01	4.71	3.60	0.00
52.01	4.71	3.60	0.00
54.01	4.71	3.60	0.00
56.01	4.71	3.60	0.00
58.01	4.71	3.60	0.00
60.01	4.71	3.60	0.00
62.01	4.71	3.60	0.00
64.01	4.71	3.60	0.00
66.01	4.71	3.60	0.00
68.01	4.71	3.60	0.00
70.01	4.71	3.60	0.00
72.01	4.71	3.60	0.00
74.01	4.71	3.60	0.00
76.01	4.71	3.60	0.00
78.01	4.71	3.60	0.00
80.01	4.71	3.60	0.00
82.01	4.71	3.60	0.00
84.01	4.71	3.60	0.00
86.01	4.71	3.60	0.00
88.01	4.71	3.60	0.00
90.01	4.71	3.60	0.00
92.01	4.71	3.60	0.00
94.01	4.71	3.60	0.00
96.01	4.71	3.60	0.00
98.01	4.71	3.60	0.00
100.01	4.71	3.60	0.00
102.01	4.71	3.60	0.00
104.01	4.71	3.60	0.00
106.01	4.71	3.60	0.00
108.01	4.71	3.60	0.00
110.01	4.71	3.60	0.00
112.01	4.71	3.60	0.00
114.01	4.71	3.60	0.00
116.01	4.71	3.60	0.00
118.01	4.71	3.60	0.00

Summary for Subcatchment 300B: 300B

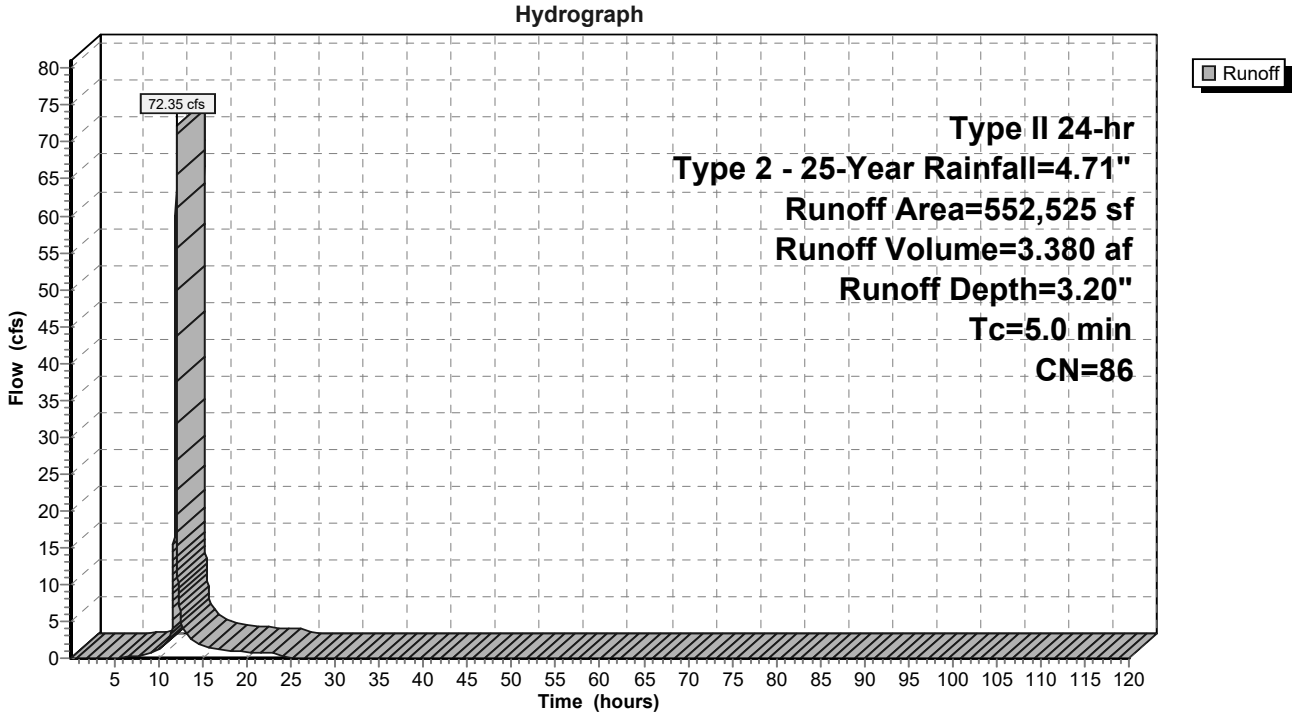
Runoff = 72.35 cfs @ 11.96 hrs, Volume= 3.380 af, Depth= 3.20"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.06
8.01	0.57	0.03	0.31
10.01	0.85	0.13	**0.99**
12.01	3.13	1.78	**55.68**
14.01	3.86	2.42	2.08
16.01	4.15	2.68	1.29
18.01	4.34	2.86	1.00
20.01	4.48	2.99	0.73
22.01	**4.60**	**3.10**	0.67
24.01	**4.71**	**3.20**	0.62
26.01	4.71	3.20	0.00
28.01	4.71	3.20	0.00
30.01	4.71	3.20	0.00
32.01	4.71	3.20	0.00
34.01	4.71	3.20	0.00
36.01	4.71	3.20	0.00
38.01	4.71	3.20	0.00
40.01	4.71	3.20	0.00
42.01	4.71	3.20	0.00
44.01	4.71	3.20	0.00
46.01	4.71	3.20	0.00
48.01	4.71	3.20	0.00
50.01	4.71	3.20	0.00
52.01	4.71	3.20	0.00
54.01	4.71	3.20	0.00
56.01	4.71	3.20	0.00
58.01	4.71	3.20	0.00
60.01	4.71	3.20	0.00
62.01	4.71	3.20	0.00
64.01	4.71	3.20	0.00
66.01	4.71	3.20	0.00
68.01	4.71	3.20	0.00
70.01	4.71	3.20	0.00
72.01	4.71	3.20	0.00
74.01	4.71	3.20	0.00
76.01	4.71	3.20	0.00
78.01	4.71	3.20	0.00
80.01	4.71	3.20	0.00
82.01	4.71	3.20	0.00
84.01	4.71	3.20	0.00
86.01	4.71	3.20	0.00
88.01	4.71	3.20	0.00
90.01	4.71	3.20	0.00
92.01	4.71	3.20	0.00
94.01	4.71	3.20	0.00
96.01	4.71	3.20	0.00
98.01	4.71	3.20	0.00
100.01	4.71	3.20	0.00
102.01	4.71	3.20	0.00
104.01	4.71	3.20	0.00
106.01	4.71	3.20	0.00
108.01	4.71	3.20	0.00
110.01	4.71	3.20	0.00
112.01	4.71	3.20	0.00
114.01	4.71	3.20	0.00
116.01	4.71	3.20	0.00
118.01	4.71	3.20	0.00

Summary for Subcatchment 400A: 400A

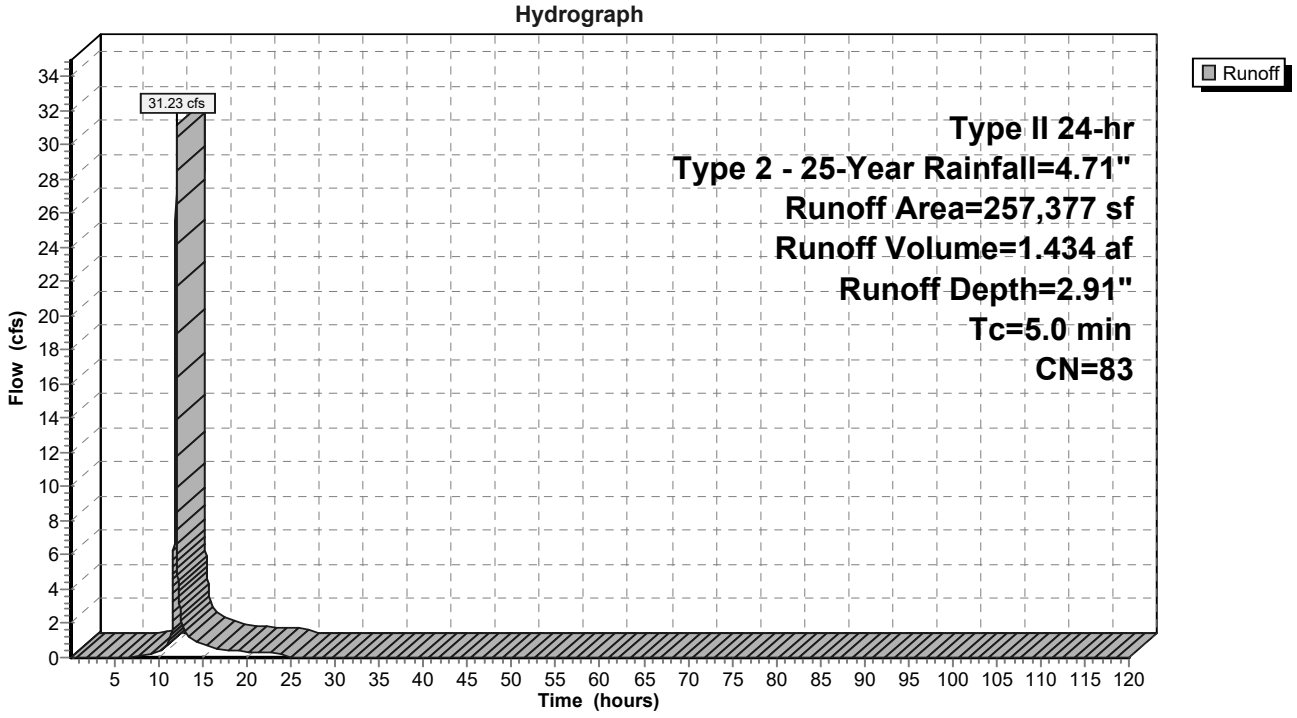
Runoff = 31.23 cfs @ 11.96 hrs, Volume= 1.434 af, Depth= 2.91"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.01	0.08
10.01	0.85	0.08	**0.35**
12.01	3.13	1.55	**24.23**
14.01	3.86	2.17	0.93
16.01	4.15	2.41	0.58
18.01	4.34	2.58	0.45
20.01	4.48	2.71	0.33
22.01	**4.60**	**2.82**	0.30
24.01	**4.71**	**2.91**	0.28
26.01	4.71	2.91	0.00
28.01	4.71	2.91	0.00
30.01	4.71	2.91	0.00
32.01	4.71	2.91	0.00
34.01	4.71	2.91	0.00
36.01	4.71	2.91	0.00
38.01	4.71	2.91	0.00
40.01	4.71	2.91	0.00
42.01	4.71	2.91	0.00
44.01	4.71	2.91	0.00
46.01	4.71	2.91	0.00
48.01	4.71	2.91	0.00
50.01	4.71	2.91	0.00
52.01	4.71	2.91	0.00
54.01	4.71	2.91	0.00
56.01	4.71	2.91	0.00
58.01	4.71	2.91	0.00
60.01	4.71	2.91	0.00
62.01	4.71	2.91	0.00
64.01	4.71	2.91	0.00
66.01	4.71	2.91	0.00
68.01	4.71	2.91	0.00
70.01	4.71	2.91	0.00
72.01	4.71	2.91	0.00
74.01	4.71	2.91	0.00
76.01	4.71	2.91	0.00
78.01	4.71	2.91	0.00
80.01	4.71	2.91	0.00
82.01	4.71	2.91	0.00
84.01	4.71	2.91	0.00
86.01	4.71	2.91	0.00
88.01	4.71	2.91	0.00
90.01	4.71	2.91	0.00
92.01	4.71	2.91	0.00
94.01	4.71	2.91	0.00
96.01	4.71	2.91	0.00
98.01	4.71	2.91	0.00
100.01	4.71	2.91	0.00
102.01	4.71	2.91	0.00
104.01	4.71	2.91	0.00
106.01	4.71	2.91	0.00
108.01	4.71	2.91	0.00
110.01	4.71	2.91	0.00
112.01	4.71	2.91	0.00
114.01	4.71	2.91	0.00
116.01	4.71	2.91	0.00
118.01	4.71	2.91	0.00

Summary for Subcatchment 500A: 500A

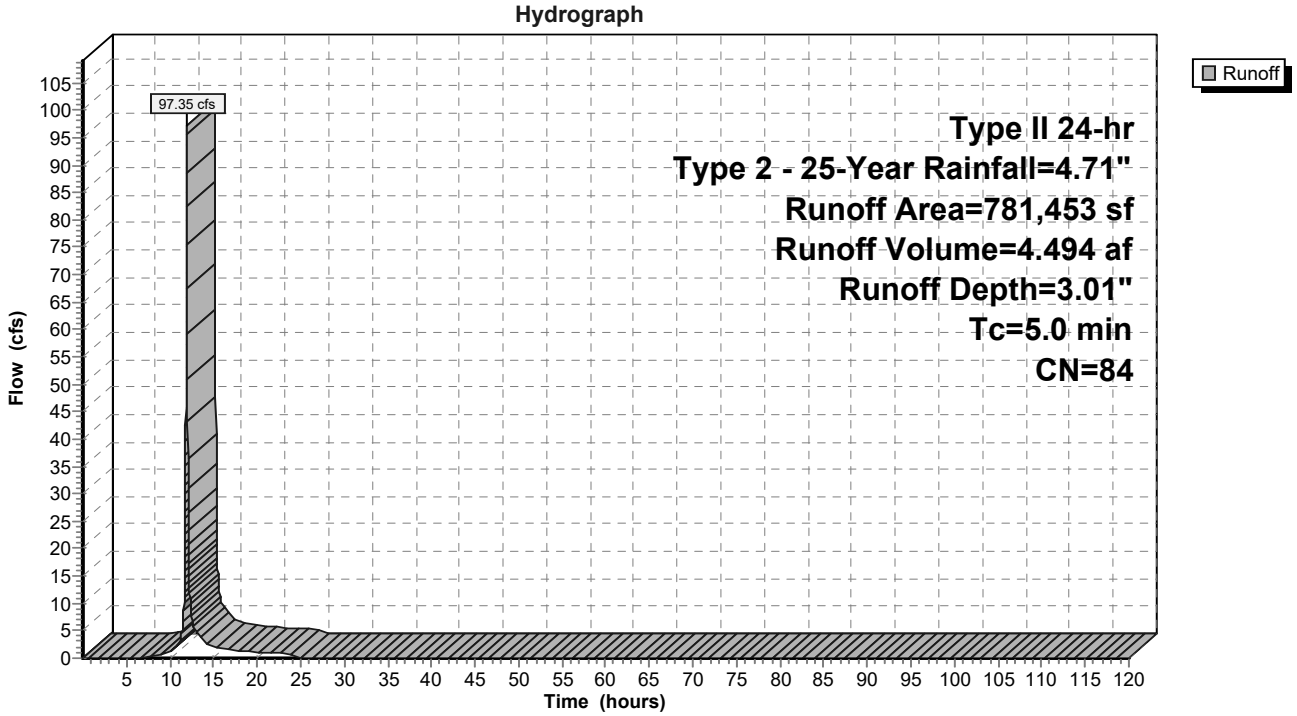
Runoff = 97.35 cfs @ 11.96 hrs, Volume= 4.494 af, Depth= 3.01"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 25-Year Rainfall=4.71"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.10	0.00	0.00
4.01	0.23	0.00	0.00
6.01	0.38	0.00	0.00
8.01	0.57	0.02	0.30
10.01	0.85	0.09	**1.16**
12.01	3.13	1.63	**75.34**
14.01	3.86	2.25	2.86
16.01	4.15	2.50	1.77
18.01	4.34	2.67	1.38
20.01	4.48	2.80	1.01
22.01	**4.60**	**2.91**	0.93
24.01	**4.71**	**3.01**	0.85
26.01	4.71	3.01	0.00
28.01	4.71	3.01	0.00
30.01	4.71	3.01	0.00
32.01	4.71	3.01	0.00
34.01	4.71	3.01	0.00
36.01	4.71	3.01	0.00
38.01	4.71	3.01	0.00
40.01	4.71	3.01	0.00
42.01	4.71	3.01	0.00
44.01	4.71	3.01	0.00
46.01	4.71	3.01	0.00
48.01	4.71	3.01	0.00
50.01	4.71	3.01	0.00
52.01	4.71	3.01	0.00
54.01	4.71	3.01	0.00
56.01	4.71	3.01	0.00
58.01	4.71	3.01	0.00
60.01	4.71	3.01	0.00
62.01	4.71	3.01	0.00
64.01	4.71	3.01	0.00
66.01	4.71	3.01	0.00
68.01	4.71	3.01	0.00
70.01	4.71	3.01	0.00
72.01	4.71	3.01	0.00
74.01	4.71	3.01	0.00
76.01	4.71	3.01	0.00
78.01	4.71	3.01	0.00
80.01	4.71	3.01	0.00
82.01	4.71	3.01	0.00
84.01	4.71	3.01	0.00
86.01	4.71	3.01	0.00
88.01	4.71	3.01	0.00
90.01	4.71	3.01	0.00
92.01	4.71	3.01	0.00
94.01	4.71	3.01	0.00
96.01	4.71	3.01	0.00
98.01	4.71	3.01	0.00
100.01	4.71	3.01	0.00
102.01	4.71	3.01	0.00
104.01	4.71	3.01	0.00
106.01	4.71	3.01	0.00
108.01	4.71	3.01	0.00
110.01	4.71	3.01	0.00
112.01	4.71	3.01	0.00
114.01	4.71	3.01	0.00
116.01	4.71	3.01	0.00
118.01	4.71	3.01	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 3.01" for Type 2 - 25-Year event
Inflow = 133.85 cfs @ 11.96 hrs, Volume= 6.179 af
Outflow = 1.29 cfs @ 21.60 hrs, Volume= 5.152 af, Atten= 99%, Lag= 578.1 min
Primary = 1.29 cfs @ 21.60 hrs, Volume= 5.152 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 881.62' @ 21.60 hrs Surf.Area= 93,535 sf Storage= 422,396 cf (214,909 cf above start)

Plug-Flow detention time= 4,941.3 min calculated for 0.389 af (6% of inflow)
Center-of-Mass det. time= 1,710.6 min (2,519.6 - 808.9)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

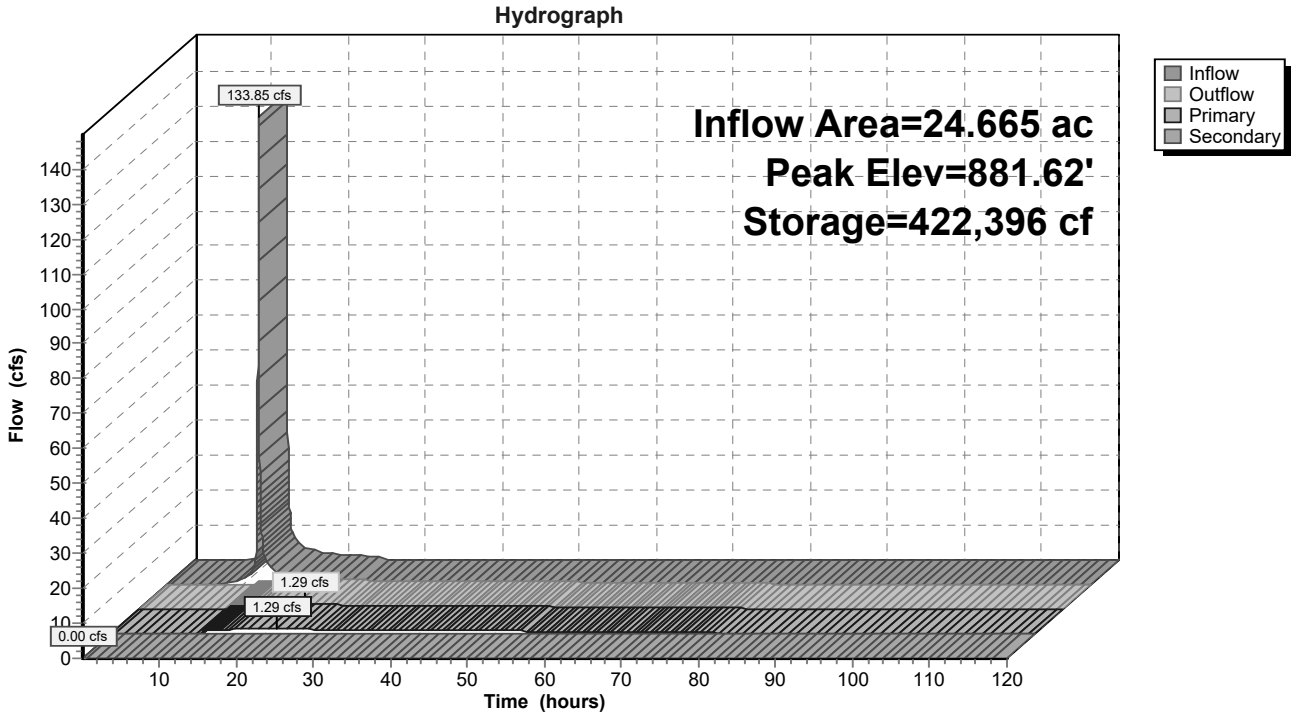
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.29 cfs @ 21.60 hrs HW=881.62' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.29 cfs of 17.01 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.29 cfs @ 6.59 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow Area=24.665 ac
Peak Elev=881.62'
Storage=422,396 cf
133.85 cfs
1.29 cfs
1.29 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.00	207,488	879.00	0.00	0.00	0.00
10.01	**1.60**	215,472	879.11	0.00	0.00	0.00
15.01	**3.15**	407,683	881.46	1.24	1.24	0.00
20.01	1.39	**422,173**	**881.62**	**1.29**	**1.29**	0.00
25.01	0.00	**417,540**	**881.57**	**1.28**	**1.28**	0.00
30.01	0.00	395,360	881.33	1.19	1.19	0.00
35.01	0.00	374,772	881.10	1.10	1.10	0.00
40.01	0.00	355,815	880.89	1.01	1.01	0.00
45.01	0.00	338,523	880.68	0.91	0.91	0.00
50.01	0.00	322,932	880.50	0.82	0.82	0.00
55.01	0.00	309,076	880.33	0.72	0.72	0.00
60.01	0.00	296,984	880.18	0.62	0.62	0.00
65.01	0.00	286,692	880.06	0.52	0.52	0.00
70.01	0.00	278,235	879.95	0.42	0.42	0.00
75.01	0.00	271,648	879.86	0.32	0.32	0.00
80.01	0.00	266,762	879.80	0.23	0.23	0.00
85.01	0.00	263,119	879.75	0.18	0.18	0.00
90.01	0.00	260,353	879.72	0.13	0.13	0.00
95.01	0.00	258,243	879.69	0.10	0.10	0.00
100.01	0.00	256,534	879.67	0.09	0.09	0.00
105.01	0.00	255,126	879.65	0.07	0.07	0.00
110.01	0.00	253,965	879.63	0.06	0.06	0.00
115.01	0.00	253,008	879.62	0.05	0.05	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 3.70" for Type 2 - 25-Year event
Inflow = 32.77 cfs @ 11.96 hrs, Volume= 1.595 af
Outflow = 1.02 cfs @ 13.74 hrs, Volume= 1.336 af, Atten= 97%, Lag= 107.0 min
Primary = 1.02 cfs @ 13.74 hrs, Volume= 1.336 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 876.92' @ 13.74 hrs Surf.Area= 26,580 sf Storage= 117,281 cf (46,364 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 585.9 min (1,370.5 - 784.6)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

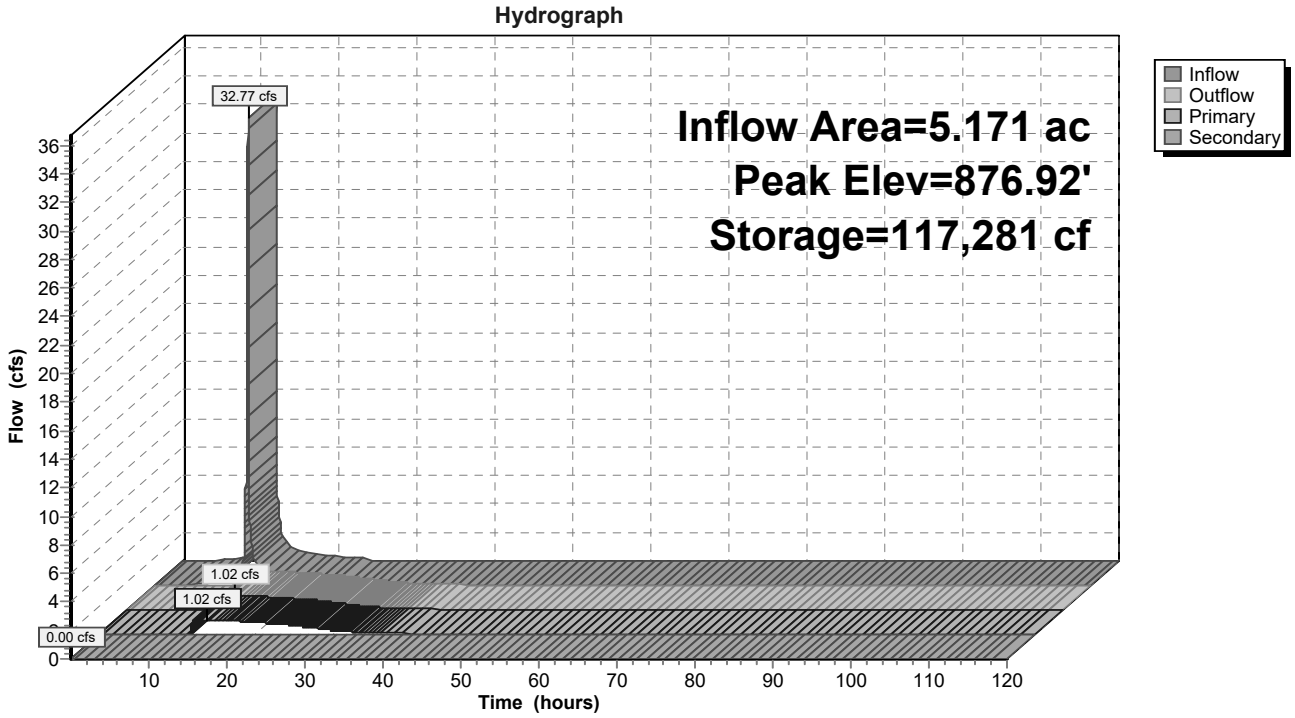
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.02 cfs @ 13.74 hrs HW=876.92' (Free Discharge)
└─**1=RCP_Round 12"** (Passes 1.02 cfs of 3.98 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 1.02 cfs @ 5.21 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.06	71,070	875.01	0.00	0.00	0.00
10.01	**0.60**	**75,664**	**875.22**	**0.00**	**0.00**	0.00
15.01	**0.72**	**116,435**	**876.89**	**1.01**	**1.01**	0.00
20.01	0.31	107,986	876.57	0.85	0.85	0.00
25.01	0.00	98,630	876.20	0.63	0.63	0.00
30.01	0.00	90,275	875.85	0.30	0.30	0.00
35.01	0.00	86,831	875.70	0.12	0.12	0.00
40.01	0.00	85,310	875.64	0.06	0.06	0.00
45.01	0.00	84,456	875.60	0.04	0.04	0.00
50.01	0.00	83,961	875.58	0.02	0.02	0.00
55.01	0.00	83,633	875.57	0.02	0.02	0.00
60.01	0.00	83,363	875.56	0.01	0.01	0.00
65.01	0.00	83,140	875.55	0.01	0.01	0.00
70.01	0.00	82,955	875.54	0.01	0.01	0.00
75.01	0.00	82,803	875.53	0.01	0.01	0.00
80.01	0.00	82,677	875.53	0.01	0.01	0.00
85.01	0.00	82,573	875.52	0.01	0.01	0.00
90.01	0.00	82,487	875.52	0.00	0.00	0.00
95.01	0.00	82,416	875.51	0.00	0.00	0.00
100.01	0.00	82,357	875.51	0.00	0.00	0.00
105.01	0.00	82,308	875.51	0.00	0.00	0.00
110.01	0.00	82,268	875.51	0.00	0.00	0.00
115.01	0.00	82,235	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 3.01" for Type 2 - 25-Year event
Inflow = 109.63 cfs @ 11.96 hrs, Volume= 6.164 af
Outflow = 2.12 cfs @ 17.85 hrs, Volume= 4.491 af, Atten= 98%, Lag= 353.4 min
Primary = 2.12 cfs @ 17.85 hrs, Volume= 4.491 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 876.51' @ 17.85 hrs Surf.Area= 127,319 sf Storage= 568,818 cf (179,735 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,362.6 min (2,295.3 - 932.7)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

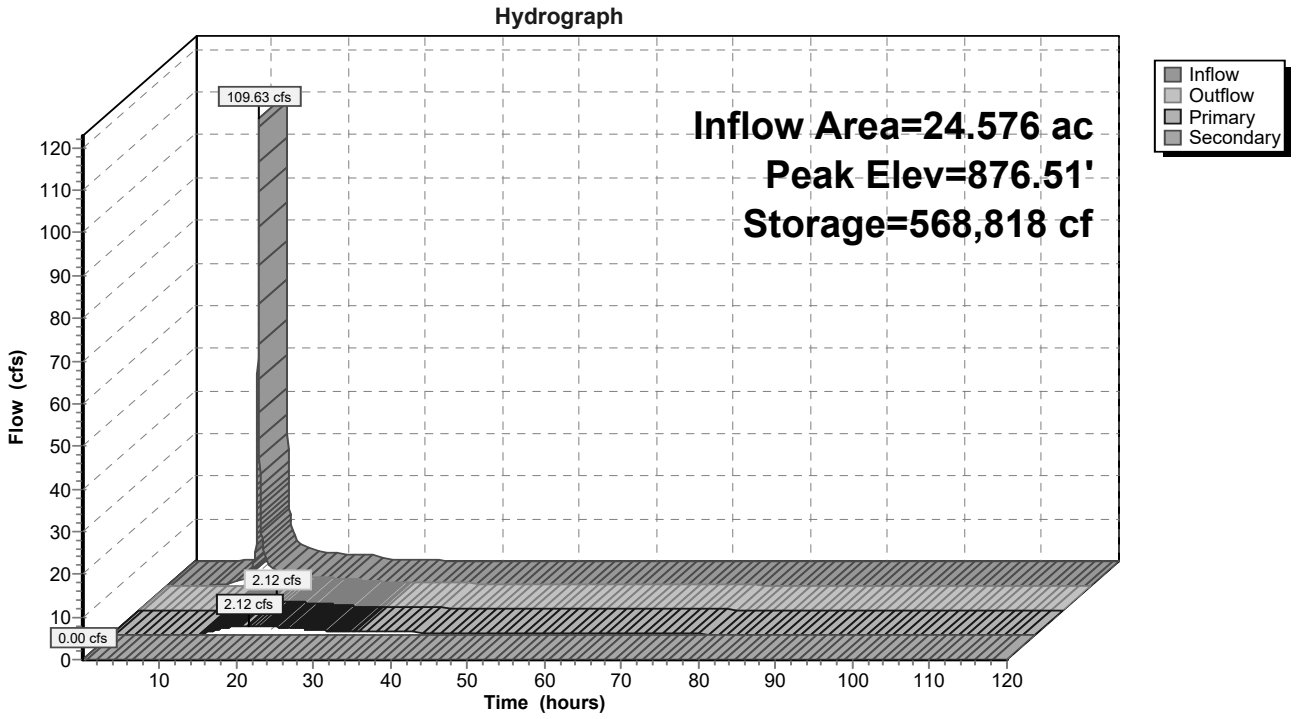
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=2.10 cfs @ 17.85 hrs HW=876.51' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 2.10 cfs of 9.43 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.83 cfs @ 4.21 fps)
  ├─**3=Sharp-Crested Rectangular Weir** (Weir Controls 1.27 cfs @ 1.51 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.05	389,172	875.00	0.00	0.00	0.00
10.01	**1.64**	399,568	875.09	0.00	0.00	0.00
15.01	**3.08**	**564,064**	**876.48**	**1.77**	**1.77**	0.00
20.01	1.65	**567,329**	**876.50**	**2.01**	**2.01**	0.00
25.01	0.45	559,100	876.44	1.47	1.47	0.00
30.01	0.25	545,822	876.33	0.84	0.84	0.00
35.01	0.14	536,334	876.26	0.67	0.67	0.00
40.01	0.09	526,760	876.18	0.62	0.62	0.00
45.01	0.06	517,477	876.10	0.56	0.56	0.00
50.01	0.04	508,844	876.03	0.50	0.50	0.00
55.01	0.03	501,000	875.97	0.44	0.44	0.00
60.01	0.03	494,132	875.91	0.37	0.37	0.00
65.01	0.02	488,381	875.86	0.31	0.31	0.00
70.01	0.02	483,593	875.82	0.26	0.26	0.00
75.01	0.01	479,605	875.79	0.22	0.22	0.00
80.01	0.01	476,282	875.76	0.18	0.18	0.00
85.01	0.01	473,475	875.74	0.16	0.16	0.00
90.01	0.01	471,061	875.72	0.13	0.13	0.00
95.01	0.01	468,984	875.70	0.11	0.11	0.00
100.01	0.01	467,199	875.68	0.10	0.10	0.00
105.01	0.01	465,664	875.67	0.08	0.08	0.00
110.01	0.00	464,317	875.66	0.08	0.08	0.00
115.01	0.00	463,096	875.65	0.07	0.07	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 2.91" for Type 2 - 25-Year event
Inflow = 31.23 cfs @ 11.96 hrs, Volume= 1.434 af
Outflow = 0.60 cfs @ 15.86 hrs, Volume= 0.991 af, Atten= 98%, Lag= 233.9 min
Primary = 0.60 cfs @ 15.86 hrs, Volume= 0.991 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 878.15' @ 15.86 hrs Surf.Area= 39,673 sf Storage= 173,617 cf (43,632 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 824.8 min (1,636.7 - 811.9)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

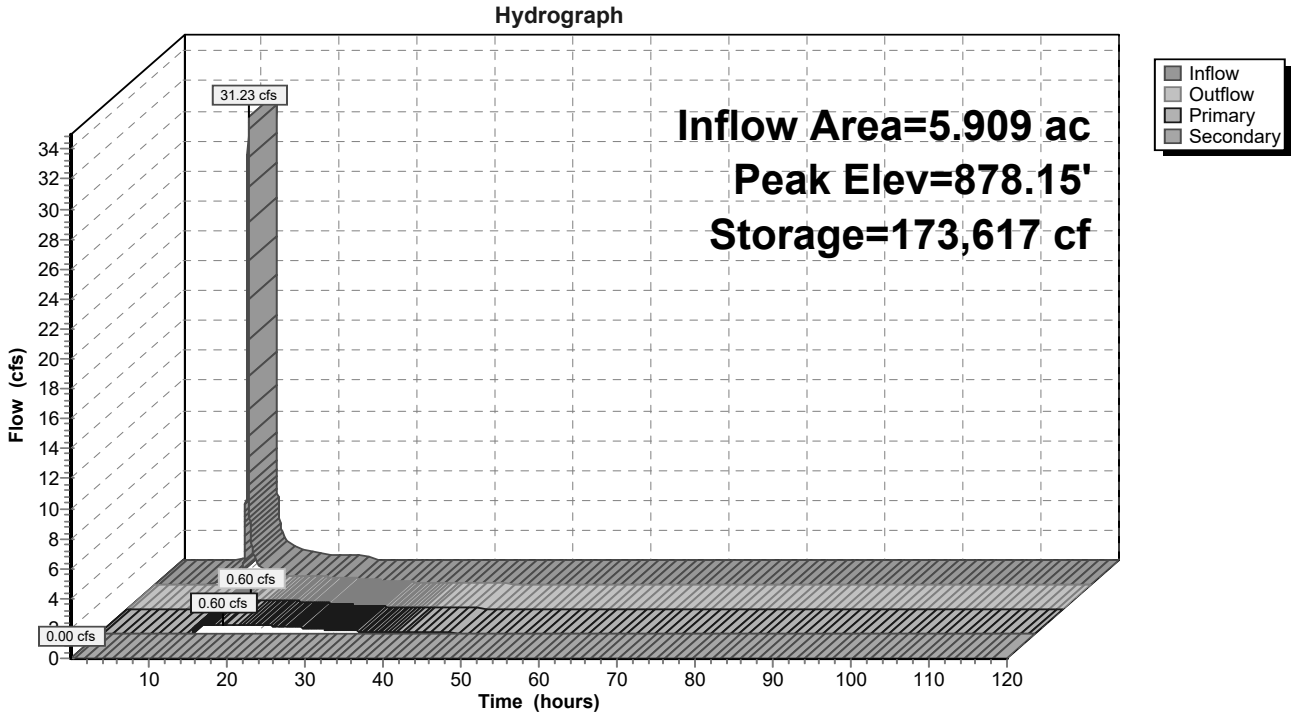
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.60 cfs @ 15.86 hrs HW=878.15' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.60 cfs of 5.75 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.60 cfs @ 3.06 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow Area=5.909 ac
Peak Elev=878.15'
Storage=173,617 cf
31.23 cfs
0.60 cfs
0.60 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.35**	131,588	877.04	0.00	0.00	0.00
15.01	**0.74**	**173,397**	**878.15**	**0.60**	**0.60**	0.00
20.01	0.33	**171,635**	**878.10**	**0.56**	**0.56**	0.00
25.01	0.00	166,738	877.98	0.45	0.45	0.00
30.01	0.00	160,464	877.82	0.25	0.25	0.00
35.01	0.00	157,000	877.73	0.14	0.14	0.00
40.01	0.00	154,961	877.68	0.09	0.09	0.00
45.01	0.00	153,633	877.64	0.06	0.06	0.00
50.01	0.00	152,713	877.62	0.04	0.04	0.00
55.01	0.00	152,074	877.60	0.03	0.03	0.00
60.01	0.00	151,582	877.59	0.03	0.03	0.00
65.01	0.00	151,168	877.58	0.02	0.02	0.00
70.01	0.00	150,819	877.57	0.02	0.02	0.00
75.01	0.00	150,526	877.56	0.01	0.01	0.00
80.01	0.00	150,278	877.55	0.01	0.01	0.00
85.01	0.00	150,070	877.55	0.01	0.01	0.00
90.01	0.00	149,895	877.54	0.01	0.01	0.00
95.01	0.00	149,747	877.54	0.01	0.01	0.00
100.01	0.00	149,623	877.53	0.01	0.01	0.00
105.01	0.00	149,518	877.53	0.01	0.01	0.00
110.01	0.00	149,430	877.53	0.00	0.00	0.00
115.01	0.00	149,356	877.53	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 3.01" for Type 2 - 25-Year event
Inflow = 97.35 cfs @ 11.96 hrs, Volume= 4.494 af
Outflow = 1.19 cfs @ 19.05 hrs, Volume= 3.722 af, Atten= 99%, Lag= 425.6 min
Primary = 1.19 cfs @ 19.05 hrs, Volume= 3.722 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 901.33' @ 19.05 hrs Surf.Area= 70,687 sf Storage= 345,662 cf (149,248 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,354.1 min (2,163.0 - 808.9)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

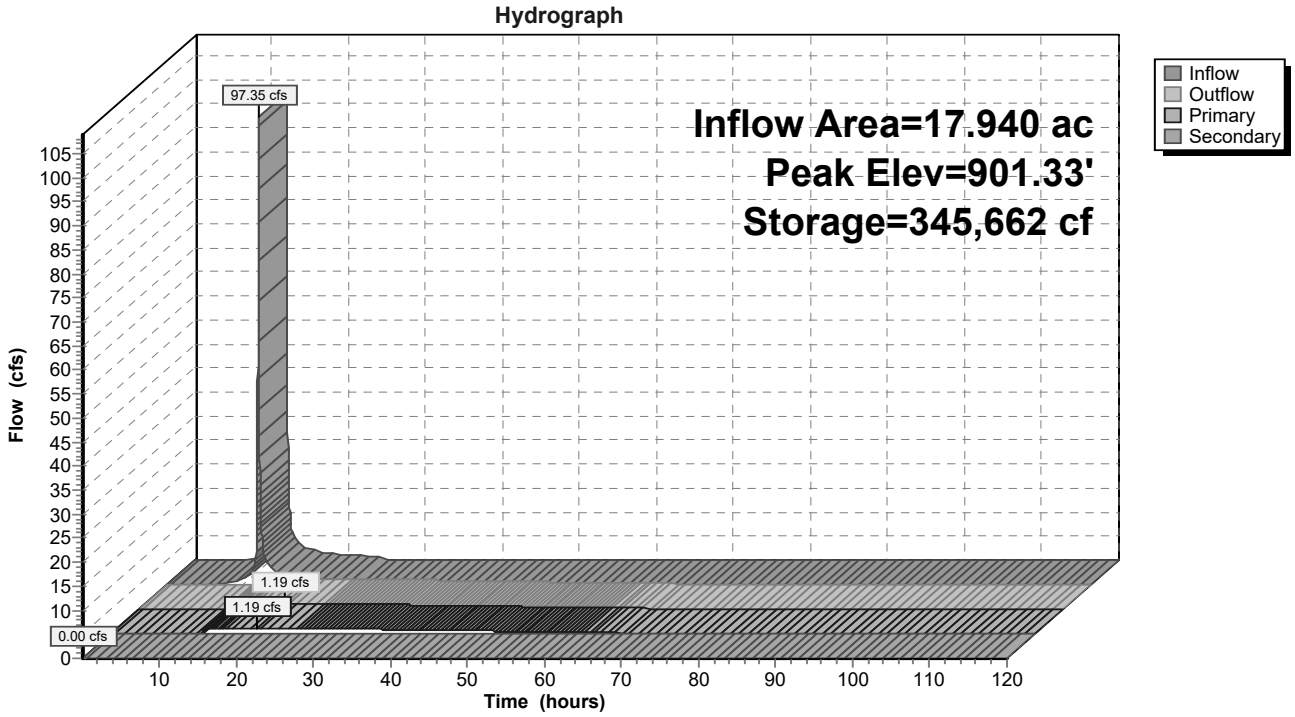
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.19 cfs @ 19.05 hrs HW=901.33' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.19 cfs of 15.41 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.19 cfs @ 6.06 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=901.33'
Storage=345,662 cf
97.35 cfs
1.19 cfs
1.19 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 500: 500

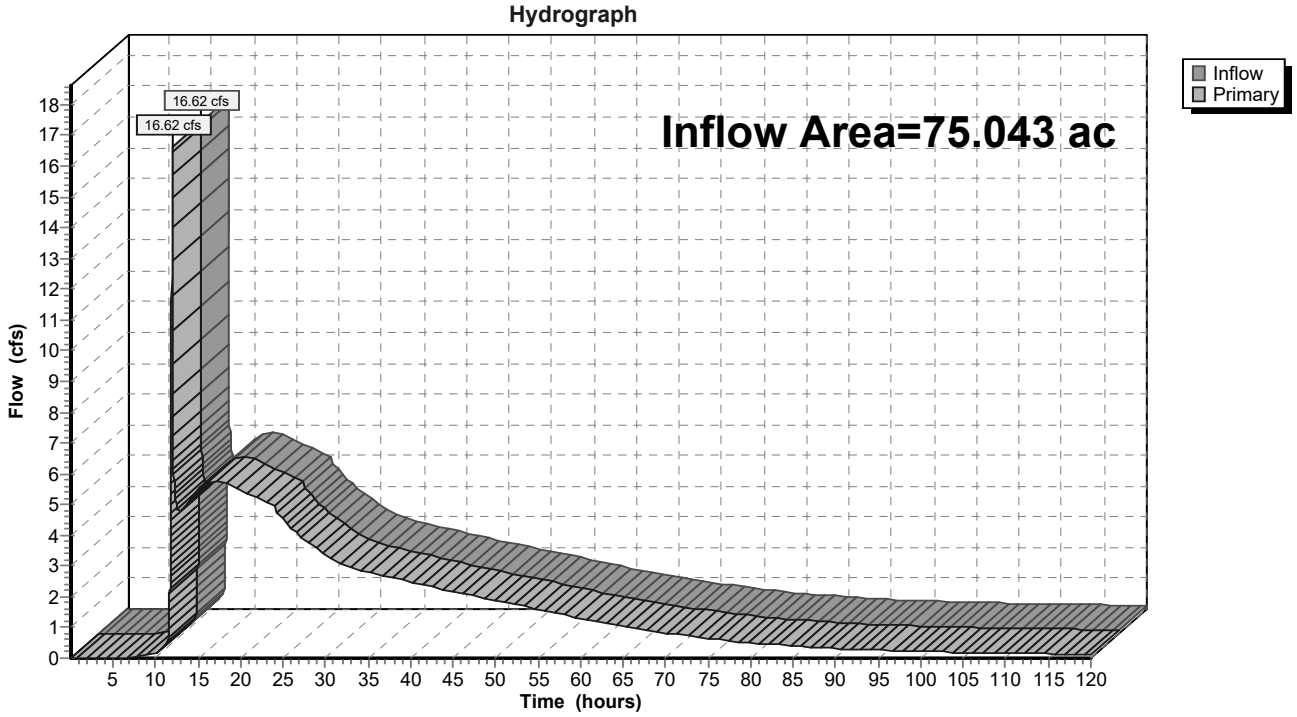
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.00	196,414	899.00	0.00	0.00	0.00
10.01	**1.16**	202,221	899.10	0.00	0.00	0.00
15.01	**2.29**	**339,390**	**901.24**	**1.16**	**1.16**	0.00
20.01	1.01	**345,359**	**901.33**	**1.19**	**1.19**	0.00
25.01	0.00	337,753	901.22	1.15	1.15	0.00
30.01	0.00	318,159	900.94	1.03	1.03	0.00
35.01	0.00	300,683	900.68	0.91	0.91	0.00
40.01	0.00	285,374	900.45	0.79	0.79	0.00
45.01	0.00	272,274	900.25	0.67	0.67	0.00
50.01	0.00	261,426	900.08	0.54	0.54	0.00
55.01	0.00	252,885	899.94	0.41	0.41	0.00
60.01	0.00	246,668	899.84	0.28	0.28	0.00
65.01	0.00	242,404	899.77	0.20	0.20	0.00
70.01	0.00	239,403	899.72	0.14	0.14	0.00
75.01	0.00	237,264	899.69	0.10	0.10	0.00
80.01	0.00	235,622	899.66	0.08	0.08	0.00
85.01	0.00	234,331	899.64	0.06	0.06	0.00
90.01	0.00	233,316	899.62	0.05	0.05	0.00
95.01	0.00	232,518	899.61	0.04	0.04	0.00
100.01	0.00	231,891	899.60	0.03	0.03	0.00
105.01	0.00	231,368	899.59	0.03	0.03	0.00
110.01	0.00	230,890	899.58	0.03	0.03	0.00
115.01	0.00	230,453	899.58	0.02	0.02	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 2.46" for Type 2 - 25-Year event
Inflow = 16.62 cfs @ 11.96 hrs, Volume= 15.354 af
Primary = 16.62 cfs @ 11.96 hrs, Volume= 15.354 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.00	0.00	0.00
8.01	0.04	0.00	0.04
10.01	**0.16**	0.00	**0.16**
12.01	**14.00**	0.00	**14.00**
14.01	5.16	0.00	5.16
16.01	5.69	0.00	5.69
18.01	5.72	0.00	5.72
20.01	5.49	0.00	5.49
22.01	5.21	0.00	5.21
24.01	4.97	0.00	4.97
26.01	4.21	0.00	4.21
28.01	3.74	0.00	3.74
30.01	3.36	0.00	3.36
32.01	3.04	0.00	3.04
34.01	2.87	0.00	2.87
36.01	2.73	0.00	2.73
38.01	2.60	0.00	2.60
40.01	2.48	0.00	2.48
42.01	2.35	0.00	2.35
44.01	2.24	0.00	2.24
46.01	2.12	0.00	2.12
48.01	2.00	0.00	2.00
50.01	1.88	0.00	1.88
52.01	1.76	0.00	1.76
54.01	1.64	0.00	1.64
56.01	1.53	0.00	1.53
58.01	1.41	0.00	1.41
60.01	1.29	0.00	1.29
62.01	1.19	0.00	1.19
64.01	1.09	0.00	1.09
66.01	1.00	0.00	1.00
68.01	0.91	0.00	0.91
70.01	0.83	0.00	0.83
72.01	0.75	0.00	0.75
74.01	0.68	0.00	0.68
76.01	0.61	0.00	0.61
78.01	0.55	0.00	0.55
80.01	0.50	0.00	0.50
82.01	0.46	0.00	0.46
84.01	0.42	0.00	0.42
86.01	0.38	0.00	0.38
88.01	0.35	0.00	0.35
90.01	0.32	0.00	0.32
92.01	0.29	0.00	0.29
94.01	0.27	0.00	0.27
96.01	0.25	0.00	0.25
98.01	0.23	0.00	0.23
100.01	0.22	0.00	0.22
102.01	0.20	0.00	0.20
104.01	0.19	0.00	0.19
106.01	0.18	0.00	0.18
108.01	0.17	0.00	0.17
110.01	0.16	0.00	0.16
112.01	0.15	0.00	0.15
114.01	0.15	0.00	0.15
116.01	0.14	0.00	0.14
118.01	0.13	0.00	0.13

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=3.62"
Tc=5.0 min CN=83 Runoff=16.53 cfs 0.768 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=3.62"
Tc=5.0 min CN=83 Runoff=0.95 cfs 0.044 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=3.72"
Tc=5.0 min CN=84 Runoff=163.82 cfs 7.650 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=4.46"
Tc=5.0 min CN=91 Runoff=38.98 cfs 1.921 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=4.35"
Tc=5.0 min CN=90 Runoff=44.44 cfs 2.169 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=3.93"
Tc=5.0 min CN=86 Runoff=87.78 cfs 4.151 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=3.62"
Tc=5.0 min CN=83 Runoff=38.39 cfs 1.783 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=3.72"
Tc=5.0 min CN=84 Runoff=119.15 cfs 5.564 af

Pond 100: 100 Peak Elev=882.20' Storage=477,887 cf Inflow=163.82 cfs 7.650 af
Primary=1.48 cfs 6.577 af Secondary=0.00 cfs 0.000 af Outflow=1.48 cfs 6.577 af

Pond 200: 200 Peak Elev=877.30' Storage=127,376 cf Inflow=38.98 cfs 1.921 af
Primary=1.18 cfs 1.662 af Secondary=0.00 cfs 0.000 af Outflow=1.18 cfs 1.662 af

Pond 300: 300 Peak Elev=876.66' Storage=587,825 cf Inflow=132.47 cfs 7.658 af
Primary=3.70 cfs 5.970 af Secondary=0.00 cfs 0.000 af Outflow=3.70 cfs 5.970 af

Pond 400: 400 Peak Elev=878.41' Storage=184,027 cf Inflow=38.39 cfs 1.783 af
Primary=0.77 cfs 1.338 af Secondary=0.00 cfs 0.000 af Outflow=0.77 cfs 1.338 af

Pond 500: 500 Peak Elev=901.86' Storage=384,055 cf Inflow=119.15 cfs 5.564 af
Primary=1.37 cfs 4.775 af Secondary=0.00 cfs 0.000 af Outflow=1.37 cfs 4.775 af

Link 1: OFFSITE Inflow=20.65 cfs 19.796 af
Primary=20.65 cfs 19.796 af

Total Runoff Area = 75.043 ac Runoff Volume = 24.049 af Average Runoff Depth = 3.85"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

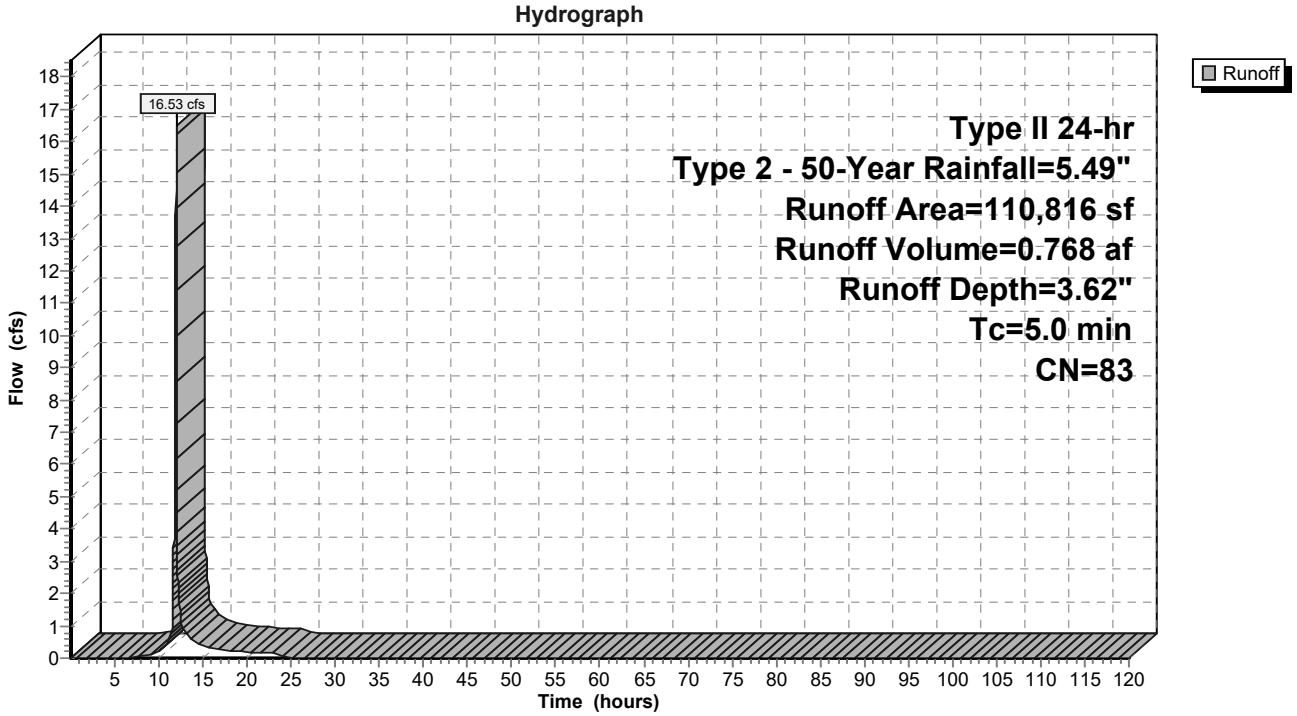
Runoff = 16.53 cfs @ 11.96 hrs, Volume= 0.768 af, Depth= 3.62"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.01
8.01	0.66	0.03	0.06
10.01	1.00	0.13	**0.21**
12.01	3.65	1.99	**12.75**
14.01	4.50	2.73	0.48
16.01	4.83	3.02	0.30
18.01	5.06	3.23	0.23
20.01	5.23	3.38	0.17
22.01	**5.36**	**3.51**	0.15
24.01	**5.49**	**3.62**	0.14
26.01	5.49	3.62	0.00
28.01	5.49	3.62	0.00
30.01	5.49	3.62	0.00
32.01	5.49	3.62	0.00
34.01	5.49	3.62	0.00
36.01	5.49	3.62	0.00
38.01	5.49	3.62	0.00
40.01	5.49	3.62	0.00
42.01	5.49	3.62	0.00
44.01	5.49	3.62	0.00
46.01	5.49	3.62	0.00
48.01	5.49	3.62	0.00
50.01	5.49	3.62	0.00
52.01	5.49	3.62	0.00
54.01	5.49	3.62	0.00
56.01	5.49	3.62	0.00
58.01	5.49	3.62	0.00
60.01	5.49	3.62	0.00
62.01	5.49	3.62	0.00
64.01	5.49	3.62	0.00
66.01	5.49	3.62	0.00
68.01	5.49	3.62	0.00
70.01	5.49	3.62	0.00
72.01	5.49	3.62	0.00
74.01	5.49	3.62	0.00
76.01	5.49	3.62	0.00
78.01	5.49	3.62	0.00
80.01	5.49	3.62	0.00
82.01	5.49	3.62	0.00
84.01	5.49	3.62	0.00
86.01	5.49	3.62	0.00
88.01	5.49	3.62	0.00
90.01	5.49	3.62	0.00
92.01	5.49	3.62	0.00
94.01	5.49	3.62	0.00
96.01	5.49	3.62	0.00
98.01	5.49	3.62	0.00
100.01	5.49	3.62	0.00
102.01	5.49	3.62	0.00
104.01	5.49	3.62	0.00
106.01	5.49	3.62	0.00
108.01	5.49	3.62	0.00
110.01	5.49	3.62	0.00
112.01	5.49	3.62	0.00
114.01	5.49	3.62	0.00
116.01	5.49	3.62	0.00
118.01	5.49	3.62	0.00

Summary for Subcatchment 2A: 2A

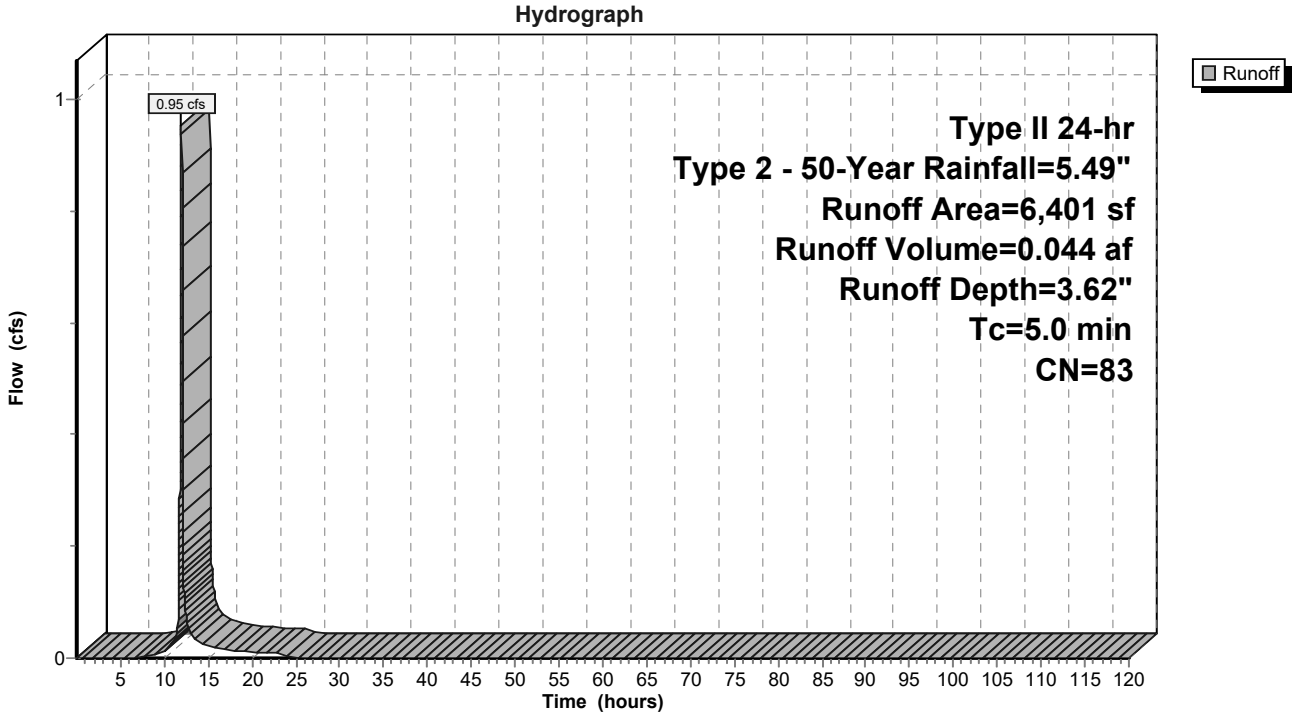
Runoff = 0.95 cfs @ 11.96 hrs, Volume= 0.044 af, Depth= 3.62"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.00
8.01	0.66	0.03	0.00
10.01	1.00	0.13	**0.01**
12.01	3.65	1.99	**0.74**
14.01	4.50	2.73	0.03
16.01	4.83	3.02	0.02
18.01	5.06	3.23	0.01
20.01	5.23	3.38	0.01
22.01	**5.36**	**3.51**	0.01
24.01	**5.49**	**3.62**	0.01
26.01	5.49	3.62	0.00
28.01	5.49	3.62	0.00
30.01	5.49	3.62	0.00
32.01	5.49	3.62	0.00
34.01	5.49	3.62	0.00
36.01	5.49	3.62	0.00
38.01	5.49	3.62	0.00
40.01	5.49	3.62	0.00
42.01	5.49	3.62	0.00
44.01	5.49	3.62	0.00
46.01	5.49	3.62	0.00
48.01	5.49	3.62	0.00
50.01	5.49	3.62	0.00
52.01	5.49	3.62	0.00
54.01	5.49	3.62	0.00
56.01	5.49	3.62	0.00
58.01	5.49	3.62	0.00
60.01	5.49	3.62	0.00
62.01	5.49	3.62	0.00
64.01	5.49	3.62	0.00
66.01	5.49	3.62	0.00
68.01	5.49	3.62	0.00
70.01	5.49	3.62	0.00
72.01	5.49	3.62	0.00
74.01	5.49	3.62	0.00
76.01	5.49	3.62	0.00
78.01	5.49	3.62	0.00
80.01	5.49	3.62	0.00
82.01	5.49	3.62	0.00
84.01	5.49	3.62	0.00
86.01	5.49	3.62	0.00
88.01	5.49	3.62	0.00
90.01	5.49	3.62	0.00
92.01	5.49	3.62	0.00
94.01	5.49	3.62	0.00
96.01	5.49	3.62	0.00
98.01	5.49	3.62	0.00
100.01	5.49	3.62	0.00
102.01	5.49	3.62	0.00
104.01	5.49	3.62	0.00
106.01	5.49	3.62	0.00
108.01	5.49	3.62	0.00
110.01	5.49	3.62	0.00
112.01	5.49	3.62	0.00
114.01	5.49	3.62	0.00
116.01	5.49	3.62	0.00
118.01	5.49	3.62	0.00

Summary for Subcatchment 100A: 100A

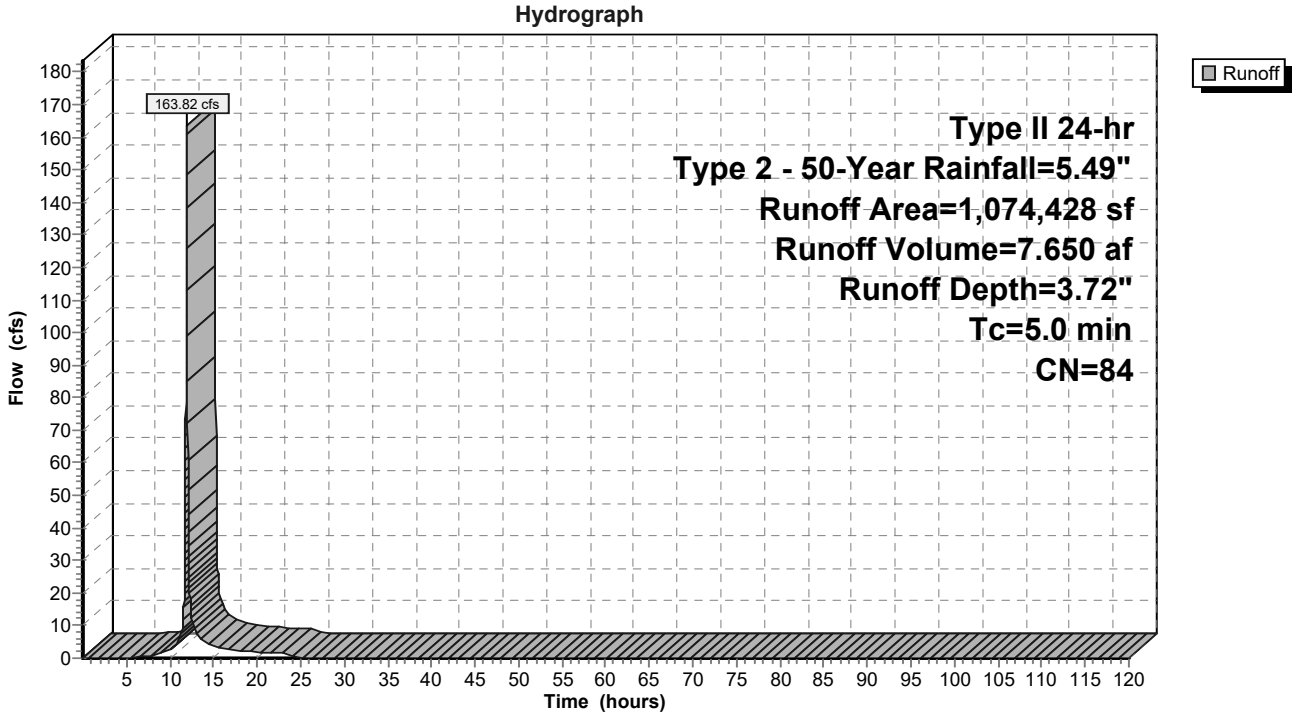
Runoff = 163.82 cfs @ 11.96 hrs, Volume= 7.650 af, Depth= 3.72"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.13
8.01	0.66	0.04	0.69
10.01	1.00	0.15	**2.24**
12.01	3.65	2.07	**126.09**
14.01	4.50	2.82	4.71
16.01	4.83	3.12	2.92
18.01	5.06	3.32	2.27
20.01	5.23	3.48	1.65
22.01	**5.36**	**3.61**	1.52
24.01	**5.49**	**3.72**	1.39
26.01	5.49	3.72	0.00
28.01	5.49	3.72	0.00
30.01	5.49	3.72	0.00
32.01	5.49	3.72	0.00
34.01	5.49	3.72	0.00
36.01	5.49	3.72	0.00
38.01	5.49	3.72	0.00
40.01	5.49	3.72	0.00
42.01	5.49	3.72	0.00
44.01	5.49	3.72	0.00
46.01	5.49	3.72	0.00
48.01	5.49	3.72	0.00
50.01	5.49	3.72	0.00
52.01	5.49	3.72	0.00
54.01	5.49	3.72	0.00
56.01	5.49	3.72	0.00
58.01	5.49	3.72	0.00
60.01	5.49	3.72	0.00
62.01	5.49	3.72	0.00
64.01	5.49	3.72	0.00
66.01	5.49	3.72	0.00
68.01	5.49	3.72	0.00
70.01	5.49	3.72	0.00
72.01	5.49	3.72	0.00
74.01	5.49	3.72	0.00
76.01	5.49	3.72	0.00
78.01	5.49	3.72	0.00
80.01	5.49	3.72	0.00
82.01	5.49	3.72	0.00
84.01	5.49	3.72	0.00
86.01	5.49	3.72	0.00
88.01	5.49	3.72	0.00
90.01	5.49	3.72	0.00
92.01	5.49	3.72	0.00
94.01	5.49	3.72	0.00
96.01	5.49	3.72	0.00
98.01	5.49	3.72	0.00
100.01	5.49	3.72	0.00
102.01	5.49	3.72	0.00
104.01	5.49	3.72	0.00
106.01	5.49	3.72	0.00
108.01	5.49	3.72	0.00
110.01	5.49	3.72	0.00
112.01	5.49	3.72	0.00
114.01	5.49	3.72	0.00
116.01	5.49	3.72	0.00
118.01	5.49	3.72	0.00

Summary for Subcatchment 200A: 200A

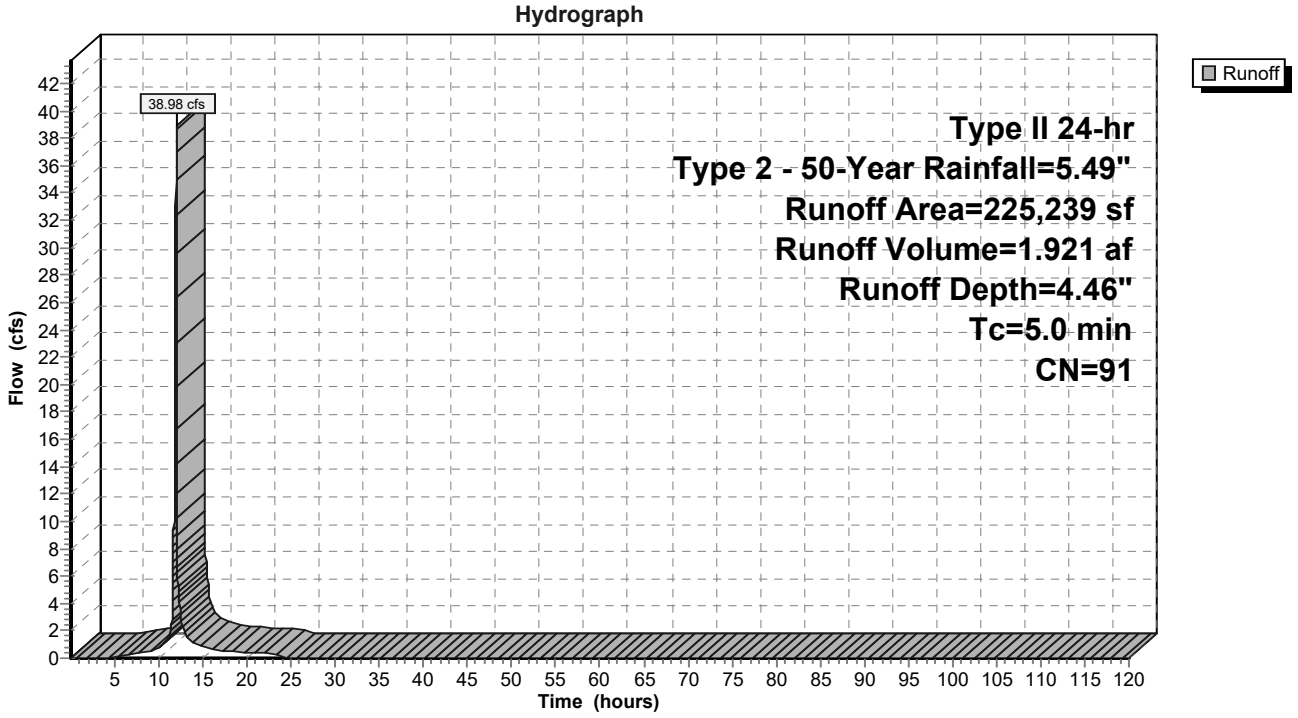
Runoff = 38.98 cfs @ 11.96 hrs, Volume= 1.921 af, Depth= 4.46"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.04
6.01	0.44	0.05	0.18
8.01	0.66	0.15	0.33
10.01	1.00	0.36	**0.77**
12.01	3.65	2.68	**29.54**
14.01	4.50	3.50	1.06
16.01	4.83	3.82	0.65
18.01	5.06	4.04	0.51
20.01	5.23	4.20	0.37
22.01	**5.36**	**4.34**	0.34
24.01	**5.49**	**4.46**	0.31
26.01	5.49	4.46	0.00
28.01	5.49	4.46	0.00
30.01	5.49	4.46	0.00
32.01	5.49	4.46	0.00
34.01	5.49	4.46	0.00
36.01	5.49	4.46	0.00
38.01	5.49	4.46	0.00
40.01	5.49	4.46	0.00
42.01	5.49	4.46	0.00
44.01	5.49	4.46	0.00
46.01	5.49	4.46	0.00
48.01	5.49	4.46	0.00
50.01	5.49	4.46	0.00
52.01	5.49	4.46	0.00
54.01	5.49	4.46	0.00
56.01	5.49	4.46	0.00
58.01	5.49	4.46	0.00
60.01	5.49	4.46	0.00
62.01	5.49	4.46	0.00
64.01	5.49	4.46	0.00
66.01	5.49	4.46	0.00
68.01	5.49	4.46	0.00
70.01	5.49	4.46	0.00
72.01	5.49	4.46	0.00
74.01	5.49	4.46	0.00
76.01	5.49	4.46	0.00
78.01	5.49	4.46	0.00
80.01	5.49	4.46	0.00
82.01	5.49	4.46	0.00
84.01	5.49	4.46	0.00
86.01	5.49	4.46	0.00
88.01	5.49	4.46	0.00
90.01	5.49	4.46	0.00
92.01	5.49	4.46	0.00
94.01	5.49	4.46	0.00
96.01	5.49	4.46	0.00
98.01	5.49	4.46	0.00
100.01	5.49	4.46	0.00
102.01	5.49	4.46	0.00
104.01	5.49	4.46	0.00
106.01	5.49	4.46	0.00
108.01	5.49	4.46	0.00
110.01	5.49	4.46	0.00
112.01	5.49	4.46	0.00
114.01	5.49	4.46	0.00
116.01	5.49	4.46	0.00
118.01	5.49	4.46	0.00

Summary for Subcatchment 300A: 300A

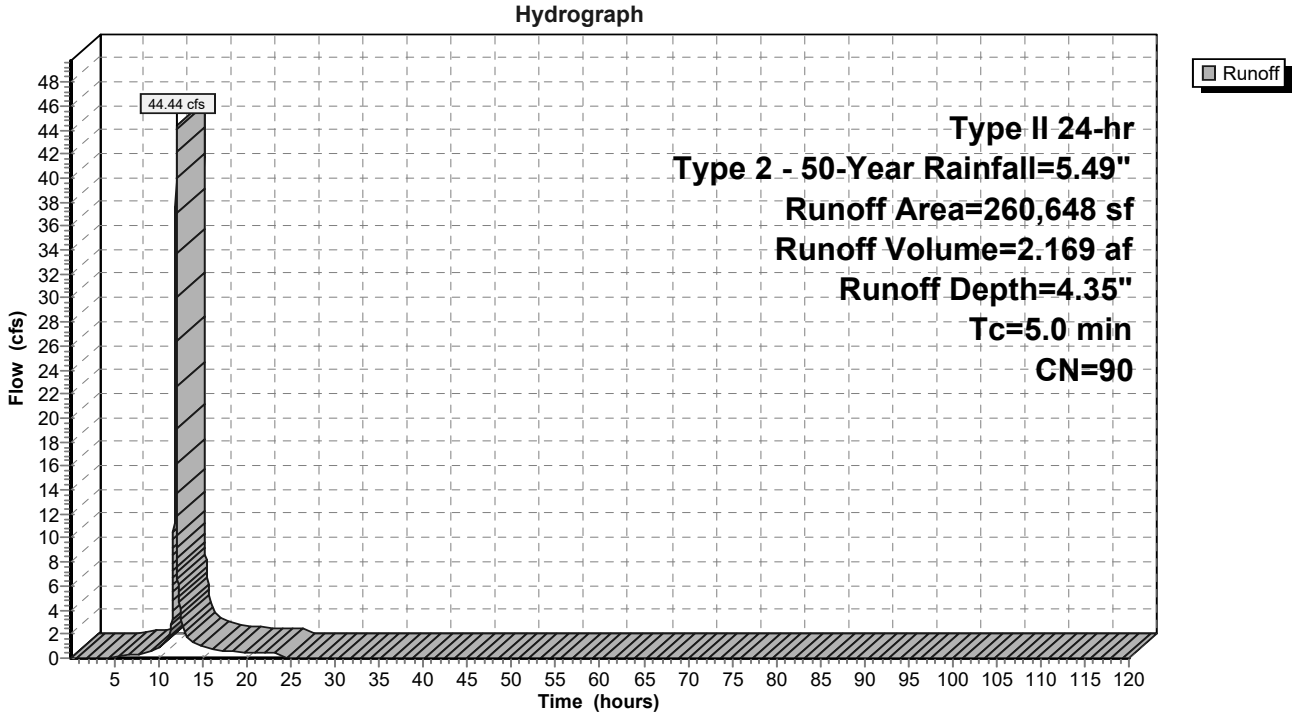
Runoff = 44.44 cfs @ 11.96 hrs, Volume= 2.169 af, Depth= 4.35"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.03
6.01	0.44	0.04	0.17
8.01	0.66	0.12	0.35
10.01	1.00	0.32	**0.83**
12.01	3.65	2.59	**33.74**
14.01	4.50	3.40	1.22
16.01	4.83	3.71	0.75
18.01	5.06	3.93	0.58
20.01	5.23	4.10	0.42
22.01	**5.36**	**4.23**	0.39
24.01	**5.49**	**4.35**	0.35
26.01	5.49	4.35	0.00
28.01	5.49	4.35	0.00
30.01	5.49	4.35	0.00
32.01	5.49	4.35	0.00
34.01	5.49	4.35	0.00
36.01	5.49	4.35	0.00
38.01	5.49	4.35	0.00
40.01	5.49	4.35	0.00
42.01	5.49	4.35	0.00
44.01	5.49	4.35	0.00
46.01	5.49	4.35	0.00
48.01	5.49	4.35	0.00
50.01	5.49	4.35	0.00
52.01	5.49	4.35	0.00
54.01	5.49	4.35	0.00
56.01	5.49	4.35	0.00
58.01	5.49	4.35	0.00
60.01	5.49	4.35	0.00
62.01	5.49	4.35	0.00
64.01	5.49	4.35	0.00
66.01	5.49	4.35	0.00
68.01	5.49	4.35	0.00
70.01	5.49	4.35	0.00
72.01	5.49	4.35	0.00
74.01	5.49	4.35	0.00
76.01	5.49	4.35	0.00
78.01	5.49	4.35	0.00
80.01	5.49	4.35	0.00
82.01	5.49	4.35	0.00
84.01	5.49	4.35	0.00
86.01	5.49	4.35	0.00
88.01	5.49	4.35	0.00
90.01	5.49	4.35	0.00
92.01	5.49	4.35	0.00
94.01	5.49	4.35	0.00
96.01	5.49	4.35	0.00
98.01	5.49	4.35	0.00
100.01	5.49	4.35	0.00
102.01	5.49	4.35	0.00
104.01	5.49	4.35	0.00
106.01	5.49	4.35	0.00
108.01	5.49	4.35	0.00
110.01	5.49	4.35	0.00
112.01	5.49	4.35	0.00
114.01	5.49	4.35	0.00
116.01	5.49	4.35	0.00
118.01	5.49	4.35	0.00

Summary for Subcatchment 300B: 300B

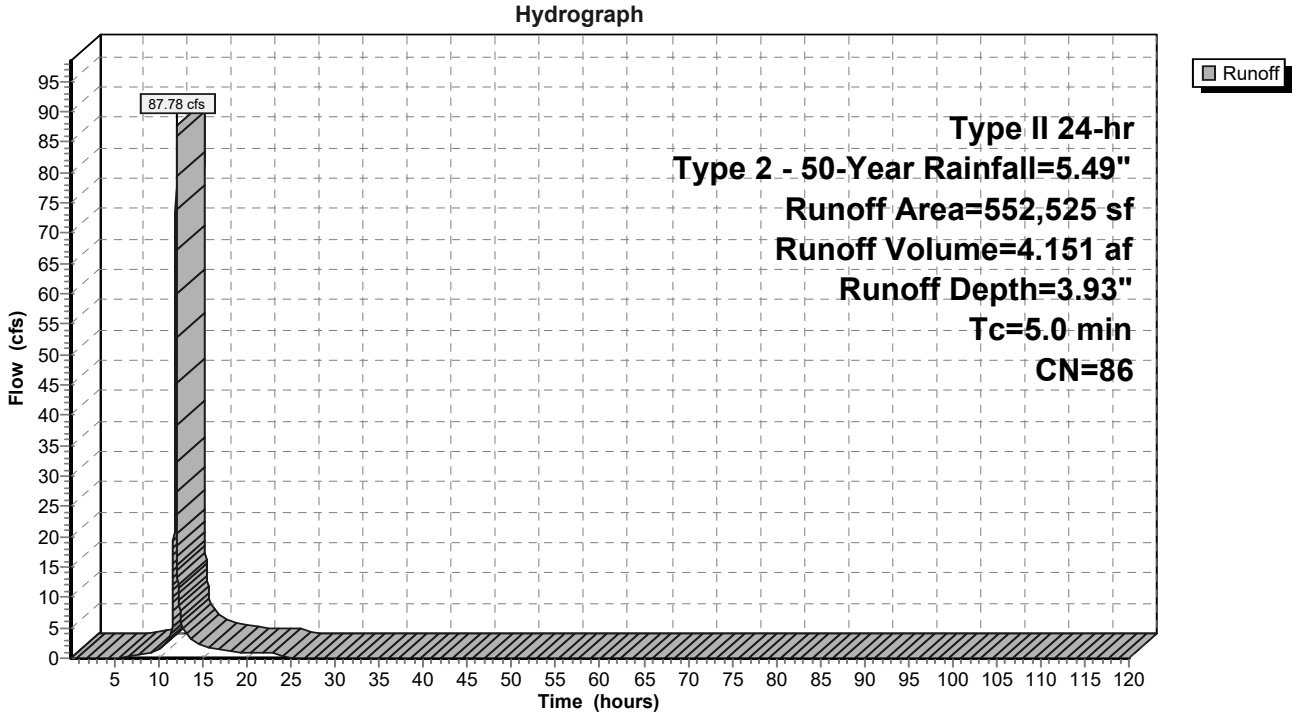
Runoff = 87.78 cfs @ 11.96 hrs, Volume= 4.151 af, Depth= 3.93"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.01	0.15
8.01	0.66	0.06	0.47
10.01	1.00	0.20	**1.34**
12.01	3.65	2.23	**67.24**
14.01	4.50	3.01	2.48
16.01	4.83	3.31	1.53
18.01	5.06	3.52	1.19
20.01	5.23	3.68	0.87
22.01	**5.36**	**3.81**	0.79
24.01	**5.49**	**3.93**	0.73
26.01	5.49	3.93	0.00
28.01	5.49	3.93	0.00
30.01	5.49	3.93	0.00
32.01	5.49	3.93	0.00
34.01	5.49	3.93	0.00
36.01	5.49	3.93	0.00
38.01	5.49	3.93	0.00
40.01	5.49	3.93	0.00
42.01	5.49	3.93	0.00
44.01	5.49	3.93	0.00
46.01	5.49	3.93	0.00
48.01	5.49	3.93	0.00
50.01	5.49	3.93	0.00
52.01	5.49	3.93	0.00
54.01	5.49	3.93	0.00
56.01	5.49	3.93	0.00
58.01	5.49	3.93	0.00
60.01	5.49	3.93	0.00
62.01	5.49	3.93	0.00
64.01	5.49	3.93	0.00
66.01	5.49	3.93	0.00
68.01	5.49	3.93	0.00
70.01	5.49	3.93	0.00
72.01	5.49	3.93	0.00
74.01	5.49	3.93	0.00
76.01	5.49	3.93	0.00
78.01	5.49	3.93	0.00
80.01	5.49	3.93	0.00
82.01	5.49	3.93	0.00
84.01	5.49	3.93	0.00
86.01	5.49	3.93	0.00
88.01	5.49	3.93	0.00
90.01	5.49	3.93	0.00
92.01	5.49	3.93	0.00
94.01	5.49	3.93	0.00
96.01	5.49	3.93	0.00
98.01	5.49	3.93	0.00
100.01	5.49	3.93	0.00
102.01	5.49	3.93	0.00
104.01	5.49	3.93	0.00
106.01	5.49	3.93	0.00
108.01	5.49	3.93	0.00
110.01	5.49	3.93	0.00
112.01	5.49	3.93	0.00
114.01	5.49	3.93	0.00
116.01	5.49	3.93	0.00
118.01	5.49	3.93	0.00

Summary for Subcatchment 400A: 400A

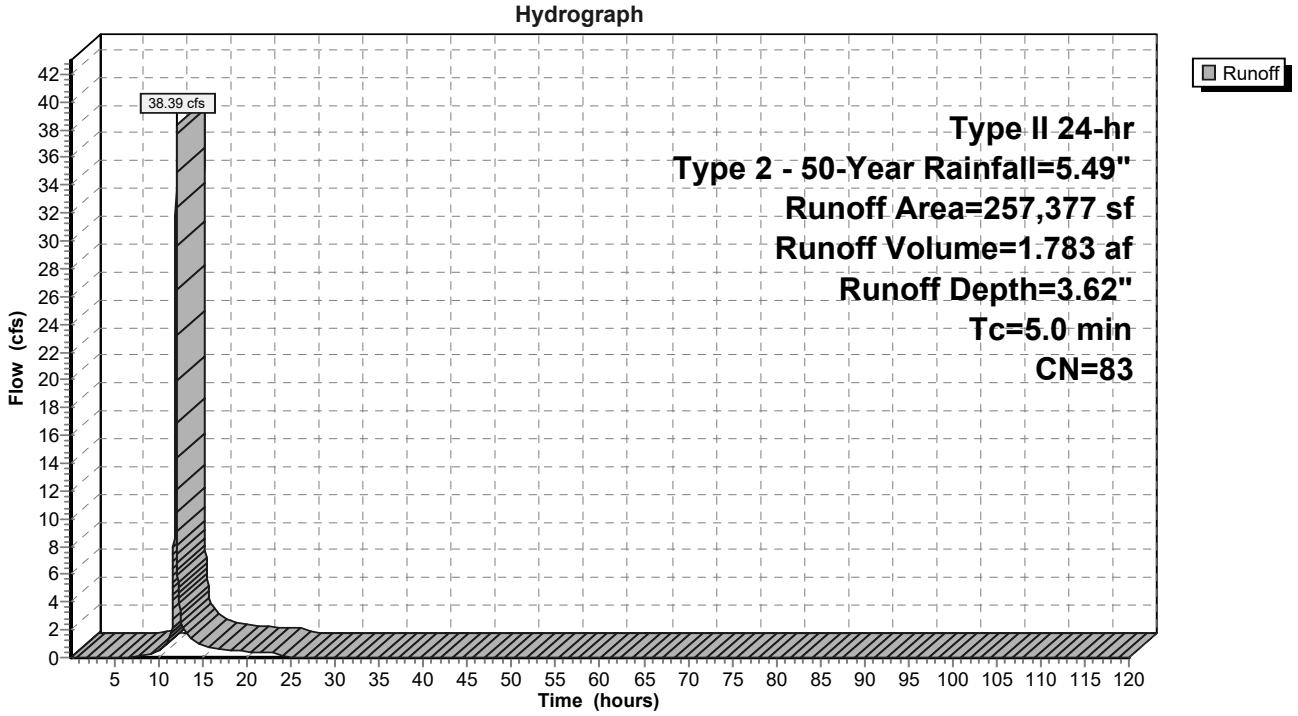
Runoff = 38.39 cfs @ 11.96 hrs, Volume= 1.783 af, Depth= 3.62"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.01
8.01	0.66	0.03	0.14
10.01	1.00	0.13	**0.49**
12.01	3.65	1.99	**29.62**
14.01	4.50	2.73	1.11
16.01	4.83	3.02	0.69
18.01	5.06	3.23	0.54
20.01	5.23	3.38	0.39
22.01	**5.36**	**3.51**	0.36
24.01	**5.49**	**3.62**	0.33
26.01	5.49	3.62	0.00
28.01	5.49	3.62	0.00
30.01	5.49	3.62	0.00
32.01	5.49	3.62	0.00
34.01	5.49	3.62	0.00
36.01	5.49	3.62	0.00
38.01	5.49	3.62	0.00
40.01	5.49	3.62	0.00
42.01	5.49	3.62	0.00
44.01	5.49	3.62	0.00
46.01	5.49	3.62	0.00
48.01	5.49	3.62	0.00
50.01	5.49	3.62	0.00
52.01	5.49	3.62	0.00
54.01	5.49	3.62	0.00
56.01	5.49	3.62	0.00
58.01	5.49	3.62	0.00
60.01	5.49	3.62	0.00
62.01	5.49	3.62	0.00
64.01	5.49	3.62	0.00
66.01	5.49	3.62	0.00
68.01	5.49	3.62	0.00
70.01	5.49	3.62	0.00
72.01	5.49	3.62	0.00
74.01	5.49	3.62	0.00
76.01	5.49	3.62	0.00
78.01	5.49	3.62	0.00
80.01	5.49	3.62	0.00
82.01	5.49	3.62	0.00
84.01	5.49	3.62	0.00
86.01	5.49	3.62	0.00
88.01	5.49	3.62	0.00
90.01	5.49	3.62	0.00
92.01	5.49	3.62	0.00
94.01	5.49	3.62	0.00
96.01	5.49	3.62	0.00
98.01	5.49	3.62	0.00
100.01	5.49	3.62	0.00
102.01	5.49	3.62	0.00
104.01	5.49	3.62	0.00
106.01	5.49	3.62	0.00
108.01	5.49	3.62	0.00
110.01	5.49	3.62	0.00
112.01	5.49	3.62	0.00
114.01	5.49	3.62	0.00
116.01	5.49	3.62	0.00
118.01	5.49	3.62	0.00

Summary for Subcatchment 500A: 500A

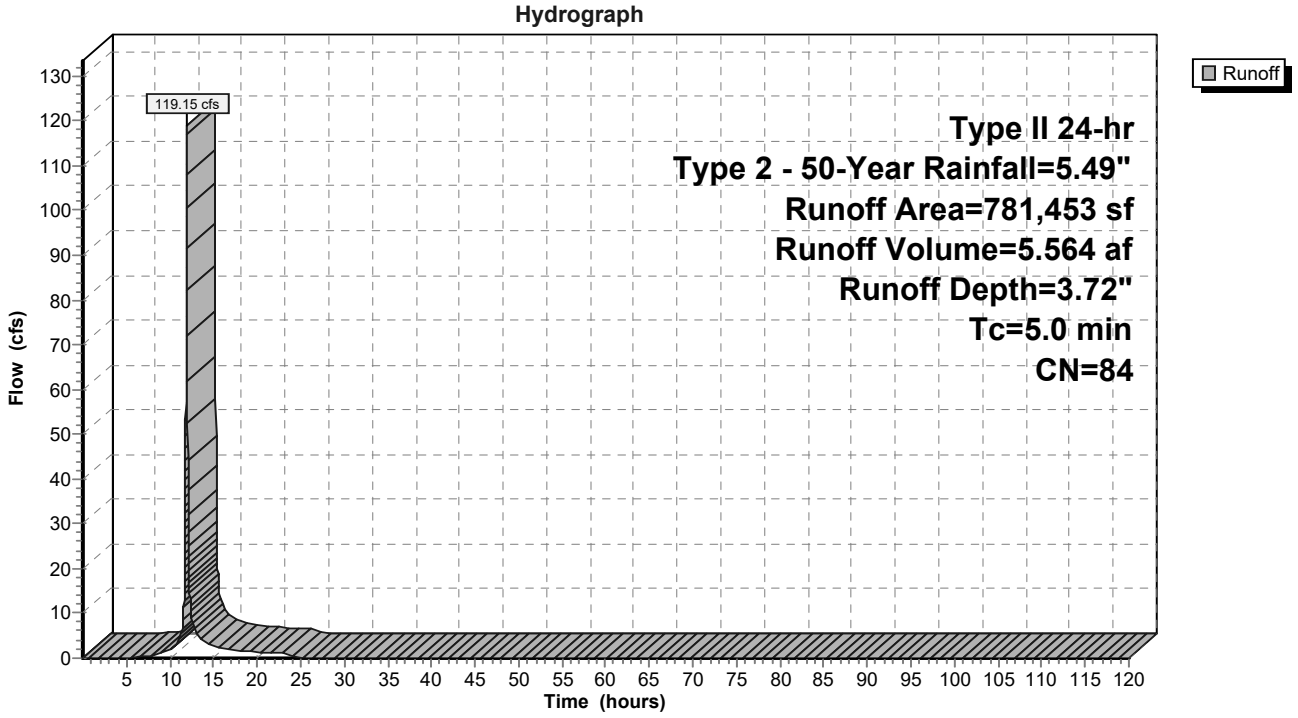
Runoff = 119.15 cfs @ 11.96 hrs, Volume= 5.564 af, Depth= 3.72"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 50-Year Rainfall=5.49"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.12	0.00	0.00
4.01	0.26	0.00	0.00
6.01	0.44	0.00	0.09
8.01	0.66	0.04	0.51
10.01	1.00	0.15	**1.63**
12.01	3.65	2.07	**91.71**
14.01	4.50	2.82	3.43
16.01	4.83	3.12	2.12
18.01	5.06	3.32	1.65
20.01	5.23	3.48	1.20
22.01	**5.36**	**3.61**	1.10
24.01	**5.49**	**3.72**	1.01
26.01	5.49	3.72	0.00
28.01	5.49	3.72	0.00
30.01	5.49	3.72	0.00
32.01	5.49	3.72	0.00
34.01	5.49	3.72	0.00
36.01	5.49	3.72	0.00
38.01	5.49	3.72	0.00
40.01	5.49	3.72	0.00
42.01	5.49	3.72	0.00
44.01	5.49	3.72	0.00
46.01	5.49	3.72	0.00
48.01	5.49	3.72	0.00
50.01	5.49	3.72	0.00
52.01	5.49	3.72	0.00
54.01	5.49	3.72	0.00
56.01	5.49	3.72	0.00
58.01	5.49	3.72	0.00
60.01	5.49	3.72	0.00
62.01	5.49	3.72	0.00
64.01	5.49	3.72	0.00
66.01	5.49	3.72	0.00
68.01	5.49	3.72	0.00
70.01	5.49	3.72	0.00
72.01	5.49	3.72	0.00
74.01	5.49	3.72	0.00
76.01	5.49	3.72	0.00
78.01	5.49	3.72	0.00
80.01	5.49	3.72	0.00
82.01	5.49	3.72	0.00
84.01	5.49	3.72	0.00
86.01	5.49	3.72	0.00
88.01	5.49	3.72	0.00
90.01	5.49	3.72	0.00
92.01	5.49	3.72	0.00
94.01	5.49	3.72	0.00
96.01	5.49	3.72	0.00
98.01	5.49	3.72	0.00
100.01	5.49	3.72	0.00
102.01	5.49	3.72	0.00
104.01	5.49	3.72	0.00
106.01	5.49	3.72	0.00
108.01	5.49	3.72	0.00
110.01	5.49	3.72	0.00
112.01	5.49	3.72	0.00
114.01	5.49	3.72	0.00
116.01	5.49	3.72	0.00
118.01	5.49	3.72	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 3.72" for Type 2 - 50-Year event
Inflow = 163.82 cfs @ 11.96 hrs, Volume= 7.650 af
Outflow = 1.48 cfs @ 22.62 hrs, Volume= 6.577 af, Atten= 99%, Lag= 639.8 min
Primary = 1.48 cfs @ 22.62 hrs, Volume= 6.577 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 882.20' @ 22.62 hrs Surf.Area= 98,722 sf Storage= 477,887 cf (270,400 cf above start)

Plug-Flow detention time= 3,907.9 min calculated for 1.813 af (24% of inflow)
Center-of-Mass det. time= 1,891.9 min (2,694.8 - 802.9)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

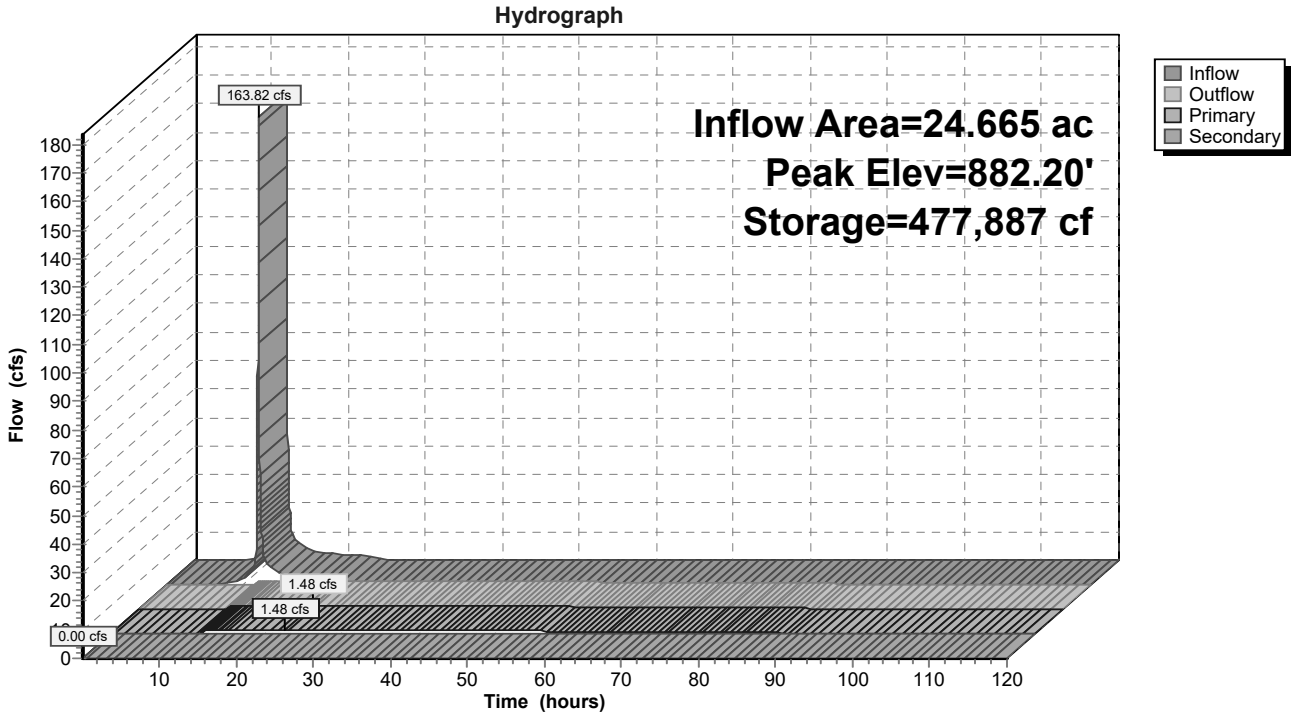
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.48 cfs @ 22.62 hrs HW=882.20' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.48 cfs of 19.80 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.48 cfs @ 7.54 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow Area=24.665 ac
Peak Elev=882.20'
Storage=477,887 cf
163.82 cfs
1.48 cfs
1.48 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.00	207,488	879.00	0.00	0.00	0.00
10.01	**2.24**	220,290	879.18	0.00	0.00	0.00
15.01	**3.77**	458,637	882.00	1.42	1.42	0.00
20.01	1.65	**477,133**	**882.19**	**1.48**	**1.48**	0.00
25.01	0.00	**472,715**	**882.15**	**1.46**	**1.46**	0.00
30.01	0.00	447,106	881.88	1.38	1.38	0.00
35.01	0.00	423,008	881.63	1.30	1.30	0.00
40.01	0.00	400,456	881.39	1.21	1.21	0.00
45.01	0.00	379,490	881.15	1.12	1.12	0.00
50.01	0.00	360,144	880.94	1.03	1.03	0.00
55.01	0.00	342,456	880.73	0.94	0.94	0.00
60.01	0.00	326,460	880.54	0.84	0.84	0.00
65.01	0.00	312,190	880.37	0.74	0.74	0.00
70.01	0.00	299,681	880.22	0.65	0.65	0.00
75.01	0.00	288,958	880.08	0.55	0.55	0.00
80.01	0.00	280,059	879.97	0.44	0.44	0.00
85.01	0.00	273,039	879.88	0.34	0.34	0.00
90.01	0.00	267,784	879.81	0.25	0.25	0.00
95.01	0.00	263,891	879.76	0.19	0.19	0.00
100.01	0.00	260,939	879.73	0.14	0.14	0.00
105.01	0.00	258,696	879.70	0.11	0.11	0.00
110.01	0.00	256,909	879.67	0.09	0.09	0.00
115.01	0.00	255,435	879.65	0.07	0.07	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 4.46" for Type 2 - 50-Year event
Inflow = 38.98 cfs @ 11.96 hrs, Volume= 1.921 af
Outflow = 1.18 cfs @ 13.80 hrs, Volume= 1.662 af, Atten= 97%, Lag= 110.4 min
Primary = 1.18 cfs @ 13.80 hrs, Volume= 1.662 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 877.30' @ 13.80 hrs Surf.Area= 27,584 sf Storage= 127,376 cf (56,458 cf above start)

Plug-Flow detention time= 4,254.6 min calculated for 0.034 af (2% of inflow)
Center-of-Mass det. time= 614.5 min (1,394.0 - 779.6)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

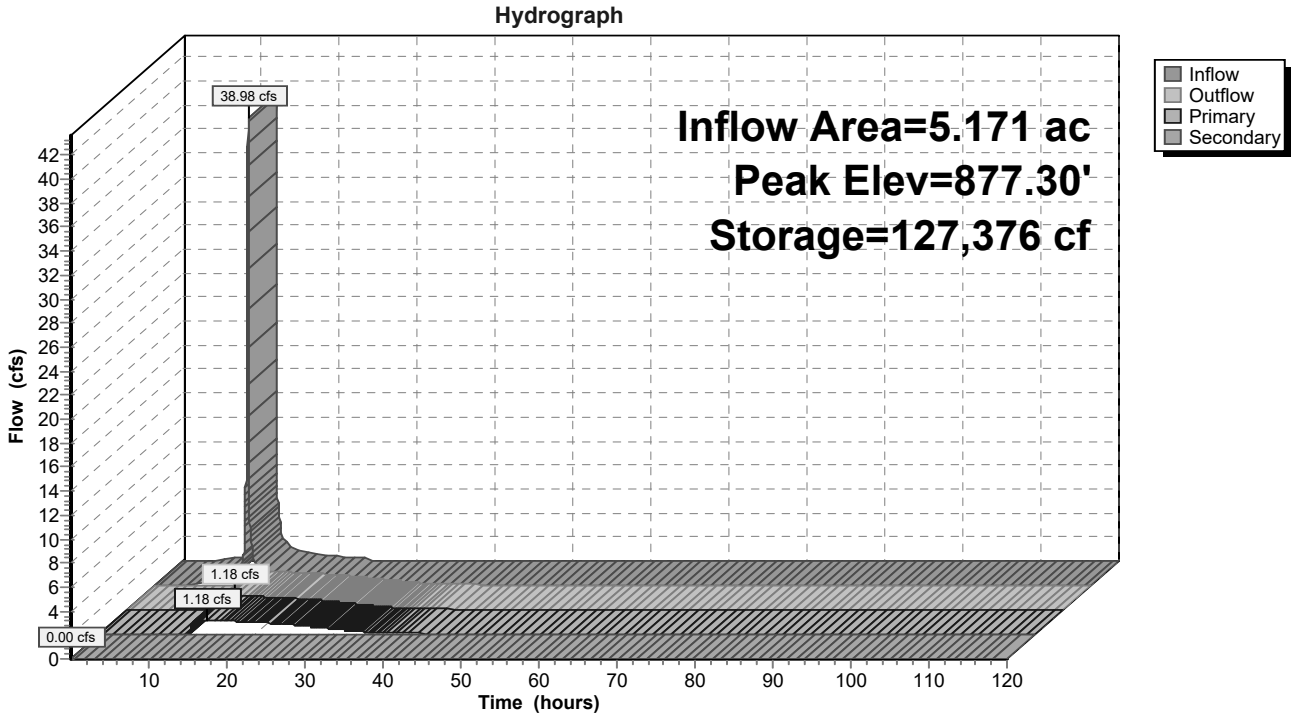
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.18 cfs @ 13.80 hrs HW=877.30' (Free Discharge)
└─**1=RCP_Round 12"** (Passes 1.18 cfs of 4.47 cfs potential flow)
  └─**2=Orifice/Grate** (Orifice Controls 1.18 cfs @ 5.99 fps)
  └─**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.11	71,253	875.02	0.00	0.00	0.00
10.01	**0.77**	**77,391**	**875.29**	**0.00**	**0.00**	0.00
15.01	**0.84**	**126,506**	**877.26**	**1.16**	**1.16**	0.00
20.01	0.37	116,723	876.90	1.01	1.01	0.00
25.01	0.00	105,181	876.46	0.79	0.79	0.00
30.01	0.00	93,784	876.00	0.47	0.47	0.00
35.01	0.00	88,201	875.76	0.18	0.18	0.00
40.01	0.00	85,960	875.67	0.08	0.08	0.00
45.01	0.00	84,834	875.62	0.05	0.05	0.00
50.01	0.00	84,180	875.59	0.03	0.03	0.00
55.01	0.00	83,792	875.57	0.02	0.02	0.00
60.01	0.00	83,494	875.56	0.02	0.02	0.00
65.01	0.00	83,248	875.55	0.01	0.01	0.00
70.01	0.00	83,045	875.54	0.01	0.01	0.00
75.01	0.00	82,877	875.53	0.01	0.01	0.00
80.01	0.00	82,738	875.53	0.01	0.01	0.00
85.01	0.00	82,623	875.52	0.01	0.01	0.00
90.01	0.00	82,529	875.52	0.00	0.00	0.00
95.01	0.00	82,450	875.52	0.00	0.00	0.00
100.01	0.00	82,385	875.51	0.00	0.00	0.00
105.01	0.00	82,332	875.51	0.00	0.00	0.00
110.01	0.00	82,288	875.51	0.00	0.00	0.00
115.01	0.00	82,251	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 3.74" for Type 2 - 50-Year event
Inflow = 132.47 cfs @ 11.96 hrs, Volume= 7.658 af
Outflow = 3.70 cfs @ 15.04 hrs, Volume= 5.970 af, Atten= 97%, Lag= 185.1 min
Primary = 3.70 cfs @ 15.04 hrs, Volume= 5.970 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 876.66' @ 15.04 hrs Surf.Area= 129,003 sf Storage= 587,825 cf (198,741 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 1,122.9 min (2,060.4 - 937.5)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

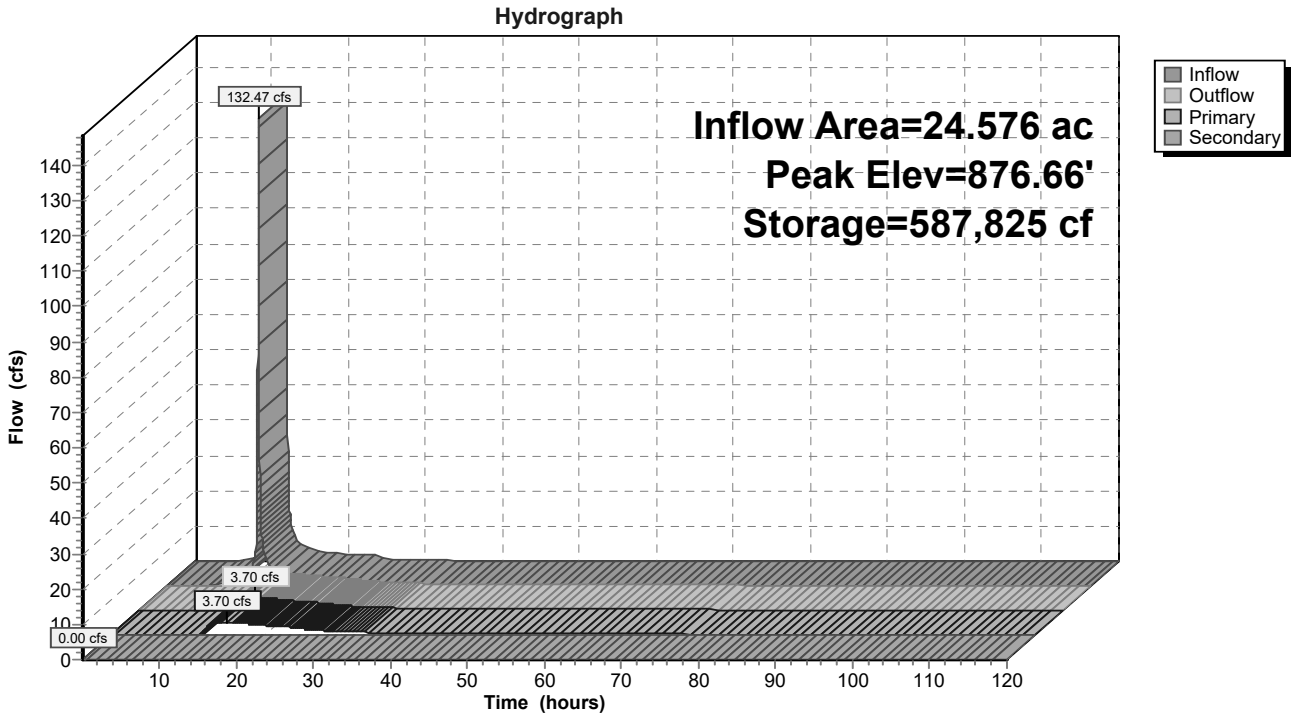
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=3.70 cfs @ 15.04 hrs HW=876.66' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 3.70 cfs of 10.80 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.90 cfs @ 4.60 fps)
  ├─**3=Sharp-Crested Rectangular Weir** (Weir Controls 2.79 cfs @ 1.97 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.12	389,335	875.00	0.00	0.00	0.00
10.01	**2.17**	404,368	875.14	0.00	0.00	0.00
15.01	**3.72**	**587,824**	**876.66**	**3.70**	**3.70**	0.00
20.01	2.01	**577,095**	**876.58**	**2.76**	**2.76**	0.00
25.01	0.61	564,600	876.48	1.80	1.80	0.00
30.01	0.40	550,054	876.36	0.99	0.99	0.00
35.01	0.22	540,730	876.29	0.69	0.69	0.00
40.01	0.13	531,684	876.22	0.65	0.65	0.00
45.01	0.08	522,357	876.14	0.59	0.59	0.00
50.01	0.06	513,445	876.07	0.53	0.53	0.00
55.01	0.04	505,214	876.00	0.47	0.47	0.00
60.01	0.03	497,813	875.94	0.41	0.41	0.00
65.01	0.02	491,461	875.89	0.35	0.35	0.00
70.01	0.02	486,170	875.84	0.29	0.29	0.00
75.01	0.02	481,762	875.81	0.24	0.24	0.00
80.01	0.01	478,088	875.78	0.20	0.20	0.00
85.01	0.01	475,019	875.75	0.17	0.17	0.00
90.01	0.01	472,395	875.73	0.15	0.15	0.00
95.01	0.01	470,136	875.71	0.12	0.12	0.00
100.01	0.01	468,193	875.69	0.11	0.11	0.00
105.01	0.01	466,522	875.68	0.09	0.09	0.00
110.01	0.01	465,082	875.67	0.08	0.08	0.00
115.01	0.00	463,792	875.66	0.07	0.07	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 3.62" for Type 2 - 50-Year event
Inflow = 38.39 cfs @ 11.96 hrs, Volume= 1.783 af
Outflow = 0.77 cfs @ 15.61 hrs, Volume= 1.338 af, Atten= 98%, Lag= 219.3 min
Primary = 0.77 cfs @ 15.61 hrs, Volume= 1.338 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 878.41' @ 15.61 hrs Surf.Area= 40,552 sf Storage= 184,027 cf (54,042 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 817.7 min (1,623.4 - 805.7)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

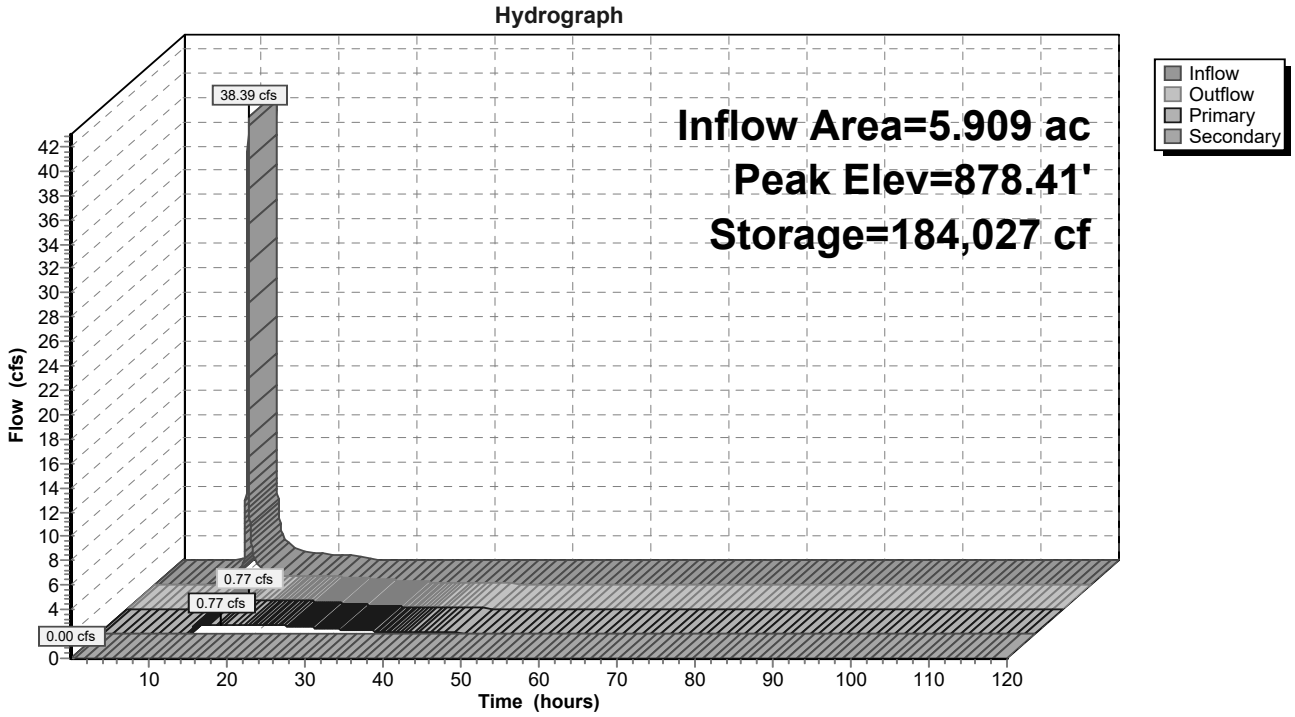
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.77 cfs @ 15.61 hrs HW=878.41' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.77 cfs of 7.99 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.77 cfs @ 3.92 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow Area=5.909 ac
Peak Elev=878.41'
Storage=184,027 cf
38.39 cfs
0.77 cfs
0.77 cfs
0.00 cfs
Flow (cfs)
Time (hours)
Inflow
Outflow
Primary
Secondary

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.49**	132,643	877.07	0.00	0.00	0.00
15.01	**0.89**	**183,895**	**878.41**	**0.77**	**0.77**	0.00
20.01	0.39	**180,900**	**878.34**	**0.72**	**0.72**	0.00
25.01	0.00	174,016	878.16	0.61	0.61	0.00
30.01	0.00	164,908	877.93	0.40	0.40	0.00
35.01	0.00	159,446	877.79	0.22	0.22	0.00
40.01	0.00	156,416	877.71	0.13	0.13	0.00
45.01	0.00	154,599	877.67	0.08	0.08	0.00
50.01	0.00	153,383	877.63	0.06	0.06	0.00
55.01	0.00	152,539	877.61	0.04	0.04	0.00
60.01	0.00	151,949	877.60	0.03	0.03	0.00
65.01	0.00	151,477	877.58	0.02	0.02	0.00
70.01	0.00	151,079	877.57	0.02	0.02	0.00
75.01	0.00	150,745	877.56	0.02	0.02	0.00
80.01	0.00	150,463	877.56	0.01	0.01	0.00
85.01	0.00	150,225	877.55	0.01	0.01	0.00
90.01	0.00	150,026	877.54	0.01	0.01	0.00
95.01	0.00	149,857	877.54	0.01	0.01	0.00
100.01	0.00	149,716	877.54	0.01	0.01	0.00
105.01	0.00	149,596	877.53	0.01	0.01	0.00
110.01	0.00	149,496	877.53	0.01	0.01	0.00
115.01	0.00	149,411	877.53	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 3.72" for Type 2 - 50-Year event
Inflow = 119.15 cfs @ 11.96 hrs, Volume= 5.564 af
Outflow = 1.37 cfs @ 19.25 hrs, Volume= 4.775 af, Atten= 99%, Lag= 437.5 min
Primary = 1.37 cfs @ 19.25 hrs, Volume= 4.775 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 901.86' @ 19.25 hrs Surf.Area= 73,816 sf Storage= 384,055 cf (187,642 cf above start)

Plug-Flow detention time= 4,780.7 min calculated for 0.266 af (5% of inflow)
Center-of-Mass det. time= 1,483.7 min (2,286.6 - 802.9)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

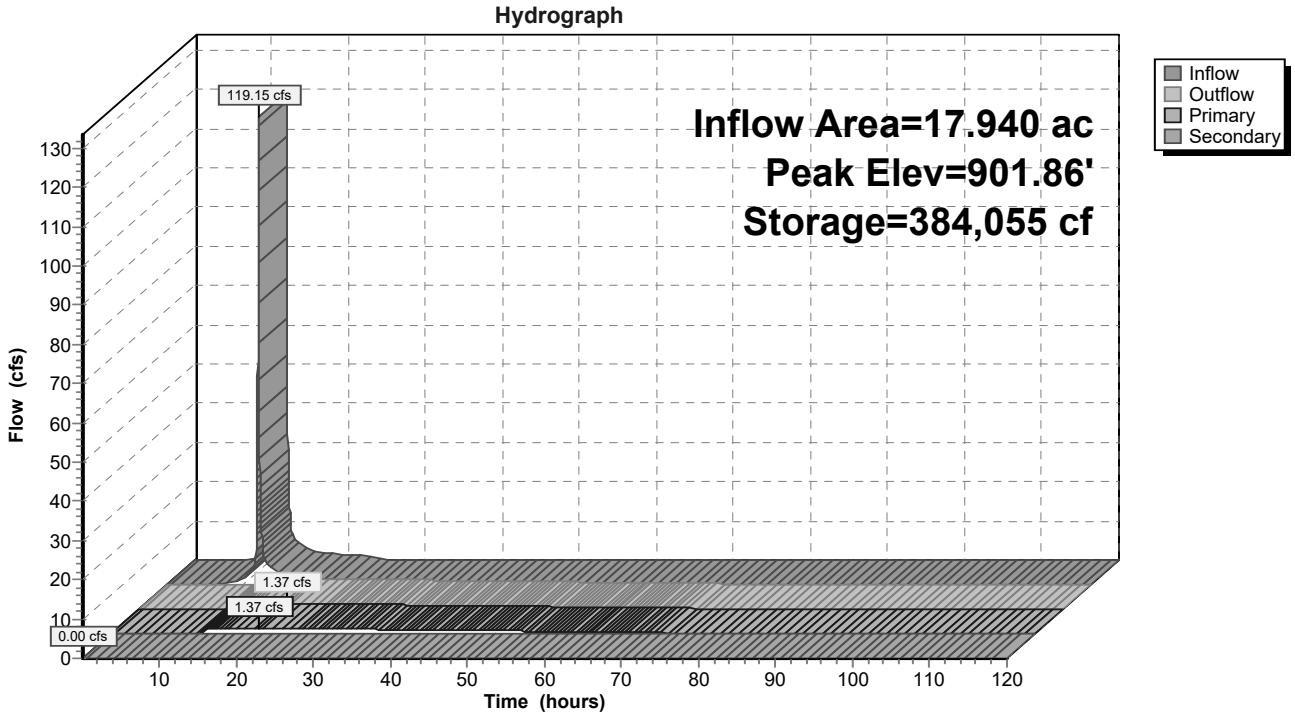
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.37 cfs @ 19.25 hrs HW=901.86' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.37 cfs of 18.23 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.37 cfs @ 7.00 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=901.86'
Storage=384,055 cf
119.15 cfs
1.37 cfs
1.37 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
10
20
30
40
50
60
70
80
90
100
110
120
130

Hydrograph for Pond 500: 500

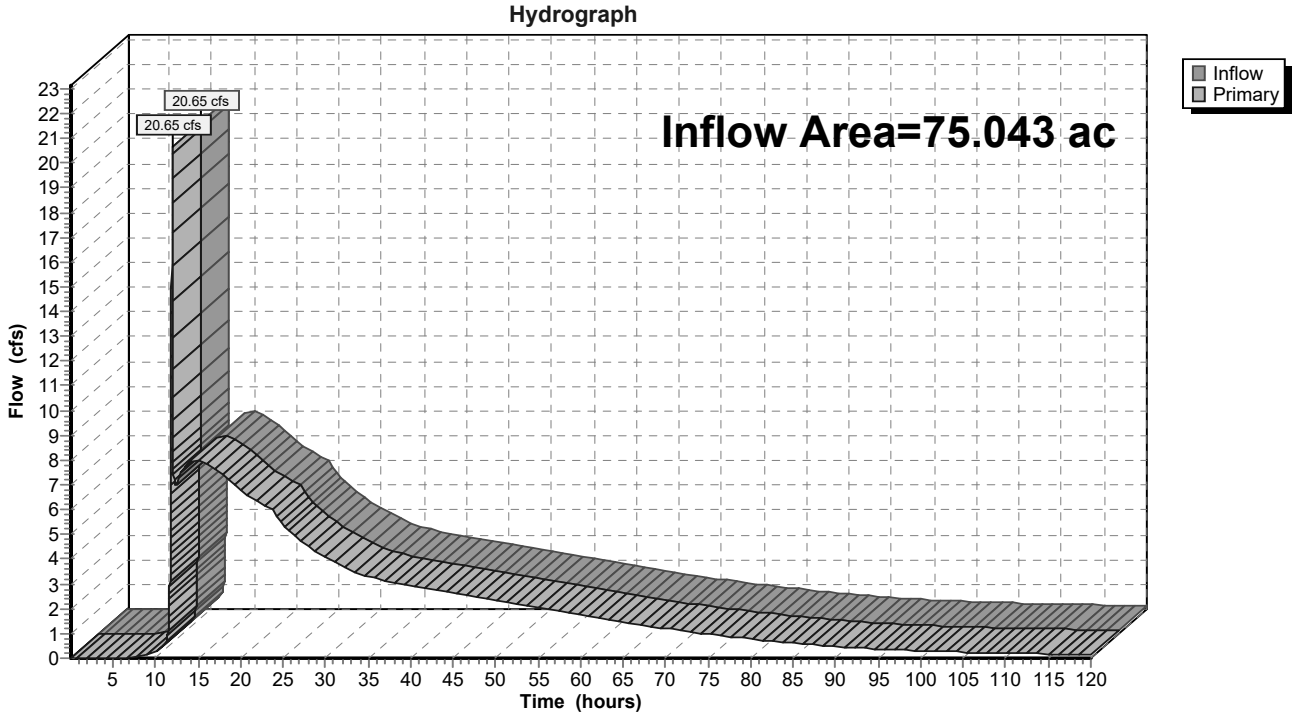
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.00	196,414	899.00	0.00	0.00	0.00
10.01	**1.63**	205,725	899.16	0.00	0.00	0.00
15.01	**2.74**	**375,866**	**901.75**	**1.34**	**1.34**	0.00
20.01	1.20	**383,829**	**901.86**	**1.37**	**1.37**	0.00
25.01	0.00	375,443	901.75	1.34	1.34	0.00
30.01	0.00	352,392	901.43	1.22	1.22	0.00
35.01	0.00	331,374	901.13	1.11	1.11	0.00
40.01	0.00	312,440	900.85	0.99	0.99	0.00
45.01	0.00	295,639	900.60	0.87	0.87	0.00
50.01	0.00	281,019	900.38	0.75	0.75	0.00
55.01	0.00	268,622	900.19	0.63	0.63	0.00
60.01	0.00	258,493	900.03	0.50	0.50	0.00
65.01	0.00	250,690	899.91	0.37	0.37	0.00
70.01	0.00	245,153	899.82	0.25	0.25	0.00
75.01	0.00	241,348	899.76	0.18	0.18	0.00
80.01	0.00	238,654	899.71	0.13	0.13	0.00
85.01	0.00	236,705	899.68	0.10	0.10	0.00
90.01	0.00	235,182	899.65	0.07	0.07	0.00
95.01	0.00	233,985	899.64	0.06	0.06	0.00
100.01	0.00	233,044	899.62	0.05	0.05	0.00
105.01	0.00	232,305	899.61	0.04	0.04	0.00
110.01	0.00	231,721	899.60	0.03	0.03	0.00
115.01	0.00	231,213	899.59	0.03	0.03	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 3.17" for Type 2 - 50-Year event
Inflow = 20.65 cfs @ 11.96 hrs, Volume= 19.796 af
Primary = 20.65 cfs @ 11.96 hrs, Volume= 19.796 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.01	0.00	0.01
8.01	0.06	0.00	0.06
10.01	**0.22**	0.00	**0.22**
12.01	**17.18**	0.00	**17.18**
14.01	7.95	0.00	7.95
16.01	7.86	0.00	7.86
18.01	7.38	0.00	7.38
20.01	6.80	0.00	6.80
22.01	6.35	0.00	6.35
24.01	5.99	0.00	5.99
26.01	5.05	0.00	5.05
28.01	4.48	0.00	4.48
30.01	4.07	0.00	4.07
32.01	3.71	0.00	3.71
34.01	3.39	0.00	3.39
36.01	3.21	0.00	3.21
38.01	3.06	0.00	3.06
40.01	2.93	0.00	2.93
42.01	2.81	0.00	2.81
44.01	2.69	0.00	2.69
46.01	2.57	0.00	2.57
48.01	2.46	0.00	2.46
50.01	2.34	0.00	2.34
52.01	2.23	0.00	2.23
54.01	2.11	0.00	2.11
56.01	2.00	0.00	2.00
58.01	1.88	0.00	1.88
60.01	1.77	0.00	1.77
62.01	1.65	0.00	1.65
64.01	1.53	0.00	1.53
66.01	1.41	0.00	1.41
68.01	1.30	0.00	1.30
70.01	1.20	0.00	1.20
72.01	1.10	0.00	1.10
74.01	1.01	0.00	1.01
76.01	0.93	0.00	0.93
78.01	0.85	0.00	0.85
80.01	0.77	0.00	0.77
82.01	0.70	0.00	0.70
84.01	0.64	0.00	0.64
86.01	0.58	0.00	0.58
88.01	0.52	0.00	0.52
90.01	0.47	0.00	0.47
92.01	0.43	0.00	0.43
94.01	0.39	0.00	0.39
96.01	0.36	0.00	0.36
98.01	0.33	0.00	0.33
100.01	0.30	0.00	0.30
102.01	0.27	0.00	0.27
104.01	0.25	0.00	0.25
106.01	0.23	0.00	0.23
108.01	0.22	0.00	0.22
110.01	0.20	0.00	0.20
112.01	0.19	0.00	0.19
114.01	0.18	0.00	0.18
116.01	0.17	0.00	0.17
118.01	0.16	0.00	0.16

Time span=0.01-120.00 hrs, dt=0.01 hrs, 12000 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1A: 1A Runoff Area=110,816 sf 38.00% Impervious Runoff Depth=4.41"
Tc=5.0 min CN=83 Runoff=19.90 cfs 0.934 af

Subcatchment2A: 2A Runoff Area=6,401 sf 38.00% Impervious Runoff Depth=4.41"
Tc=5.0 min CN=83 Runoff=1.15 cfs 0.054 af

Subcatchment100A: 100A Runoff Area=1,074,428 sf 42.06% Impervious Runoff Depth=4.52"
Tc=5.0 min CN=84 Runoff=196.51 cfs 9.282 af

Subcatchment200A: 200A Runoff Area=225,239 sf 68.37% Impervious Runoff Depth=5.29"
Tc=5.0 min CN=91 Runoff=45.71 cfs 2.280 af

Subcatchment300A: 300A Runoff Area=260,648 sf 65.00% Impervious Runoff Depth=5.18"
Tc=5.0 min CN=90 Runoff=52.26 cfs 2.582 af

Subcatchment300B: 300B Runoff Area=552,525 sf 50.37% Impervious Runoff Depth=4.73"
Tc=5.0 min CN=86 Runoff=104.56 cfs 5.003 af

Subcatchment400A: 400A Runoff Area=257,377 sf 39.66% Impervious Runoff Depth=4.41"
Tc=5.0 min CN=83 Runoff=46.22 cfs 2.170 af

Subcatchment500A: 500A Runoff Area=781,453 sf 42.55% Impervious Runoff Depth=4.52"
Tc=5.0 min CN=84 Runoff=142.93 cfs 6.751 af

Pond 100: 100 Peak Elev=882.82' Storage=540,850 cf Inflow=196.51 cfs 9.282 af
Primary=1.66 cfs 8.138 af Secondary=0.00 cfs 0.000 af Outflow=1.66 cfs 8.138 af

Pond 200: 200 Peak Elev=877.69' Storage=138,507 cf Inflow=45.71 cfs 2.280 af
Primary=1.32 cfs 2.020 af Secondary=0.00 cfs 0.000 af Outflow=1.32 cfs 2.020 af

Pond 300: 300 Peak Elev=876.85' Storage=611,984 cf Inflow=157.31 cfs 9.310 af
Primary=6.15 cfs 7.605 af Secondary=0.00 cfs 0.000 af Outflow=6.15 cfs 7.605 af

Pond 400: 400 Peak Elev=878.71' Storage=196,219 cf Inflow=46.22 cfs 2.170 af
Primary=0.93 cfs 1.725 af Secondary=0.00 cfs 0.000 af Outflow=0.93 cfs 1.725 af

Pond 500: 500 Peak Elev=902.44' Storage=427,534 cf Inflow=142.93 cfs 6.751 af
Primary=1.55 cfs 5.944 af Secondary=0.00 cfs 0.000 af Outflow=1.55 cfs 5.944 af

Link 1: OFFSITE Inflow=24.87 cfs 24.696 af
Primary=24.87 cfs 24.696 af

Total Runoff Area = 75.043 ac Runoff Volume = 29.056 af Average Runoff Depth = 4.65"
53.11% Pervious = 39.854 ac 46.89% Impervious = 35.189 ac

Summary for Subcatchment 1A: 1A

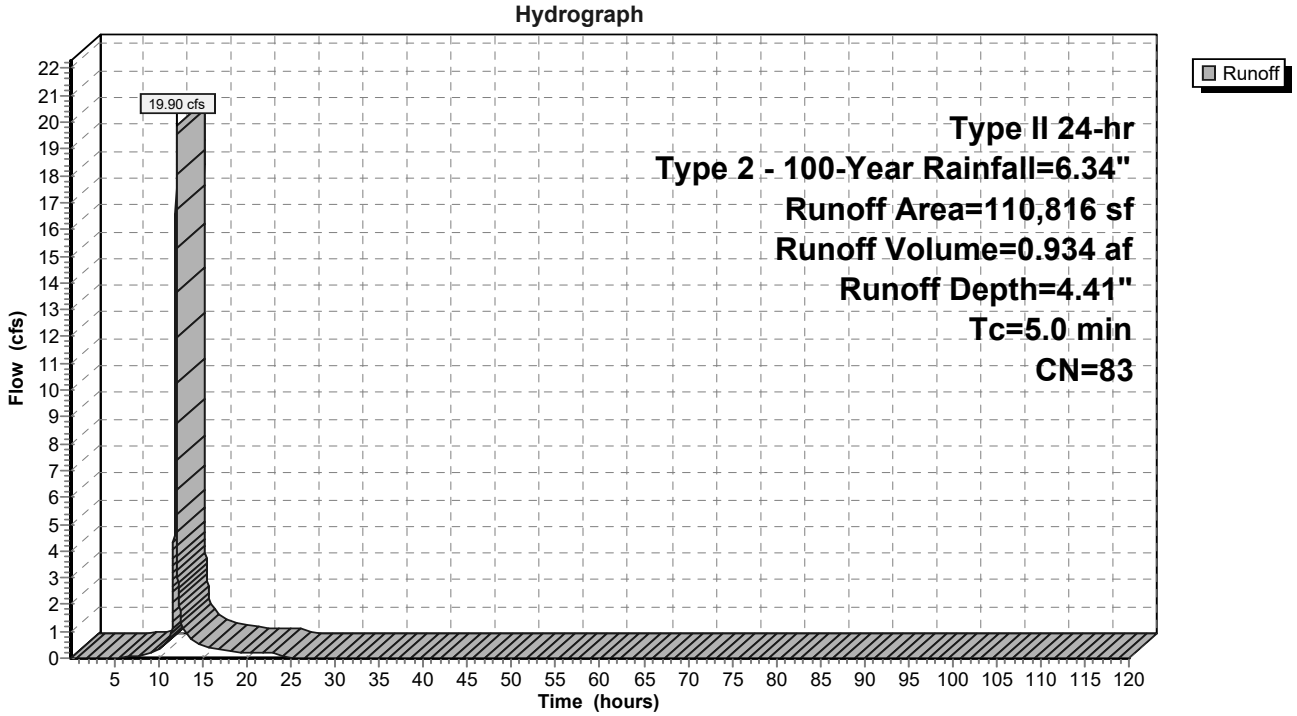
Runoff = 19.90 cfs @ 11.96 hrs, Volume= 0.934 af, Depth= 4.41"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
110,816	83	1/4 acre lots, 38% imp, HSG C
68,706		62.00% Pervious Area
42,110		38.00% Impervious Area

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

Subcatchment 1A: 1A



Hydrograph for Subcatchment 1A: 1A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.02
8.01	0.76	0.05	0.09
10.01	1.15	0.20	**0.29**
12.01	4.22	2.47	**15.28**
14.01	5.20	3.36	0.57
16.01	5.58	3.70	0.35
18.01	5.84	3.94	0.27
20.01	6.04	4.13	0.20
22.01	**6.19**	**4.27**	0.18
24.01	**6.34**	**4.41**	0.17
26.01	6.34	4.41	0.00
28.01	6.34	4.41	0.00
30.01	6.34	4.41	0.00
32.01	6.34	4.41	0.00
34.01	6.34	4.41	0.00
36.01	6.34	4.41	0.00
38.01	6.34	4.41	0.00
40.01	6.34	4.41	0.00
42.01	6.34	4.41	0.00
44.01	6.34	4.41	0.00
46.01	6.34	4.41	0.00
48.01	6.34	4.41	0.00
50.01	6.34	4.41	0.00
52.01	6.34	4.41	0.00
54.01	6.34	4.41	0.00
56.01	6.34	4.41	0.00
58.01	6.34	4.41	0.00
60.01	6.34	4.41	0.00
62.01	6.34	4.41	0.00
64.01	6.34	4.41	0.00
66.01	6.34	4.41	0.00
68.01	6.34	4.41	0.00
70.01	6.34	4.41	0.00
72.01	6.34	4.41	0.00
74.01	6.34	4.41	0.00
76.01	6.34	4.41	0.00
78.01	6.34	4.41	0.00
80.01	6.34	4.41	0.00
82.01	6.34	4.41	0.00
84.01	6.34	4.41	0.00
86.01	6.34	4.41	0.00
88.01	6.34	4.41	0.00
90.01	6.34	4.41	0.00
92.01	6.34	4.41	0.00
94.01	6.34	4.41	0.00
96.01	6.34	4.41	0.00
98.01	6.34	4.41	0.00
100.01	6.34	4.41	0.00
102.01	6.34	4.41	0.00
104.01	6.34	4.41	0.00
106.01	6.34	4.41	0.00
108.01	6.34	4.41	0.00
110.01	6.34	4.41	0.00
112.01	6.34	4.41	0.00
114.01	6.34	4.41	0.00
116.01	6.34	4.41	0.00
118.01	6.34	4.41	0.00

Summary for Subcatchment 2A: 2A

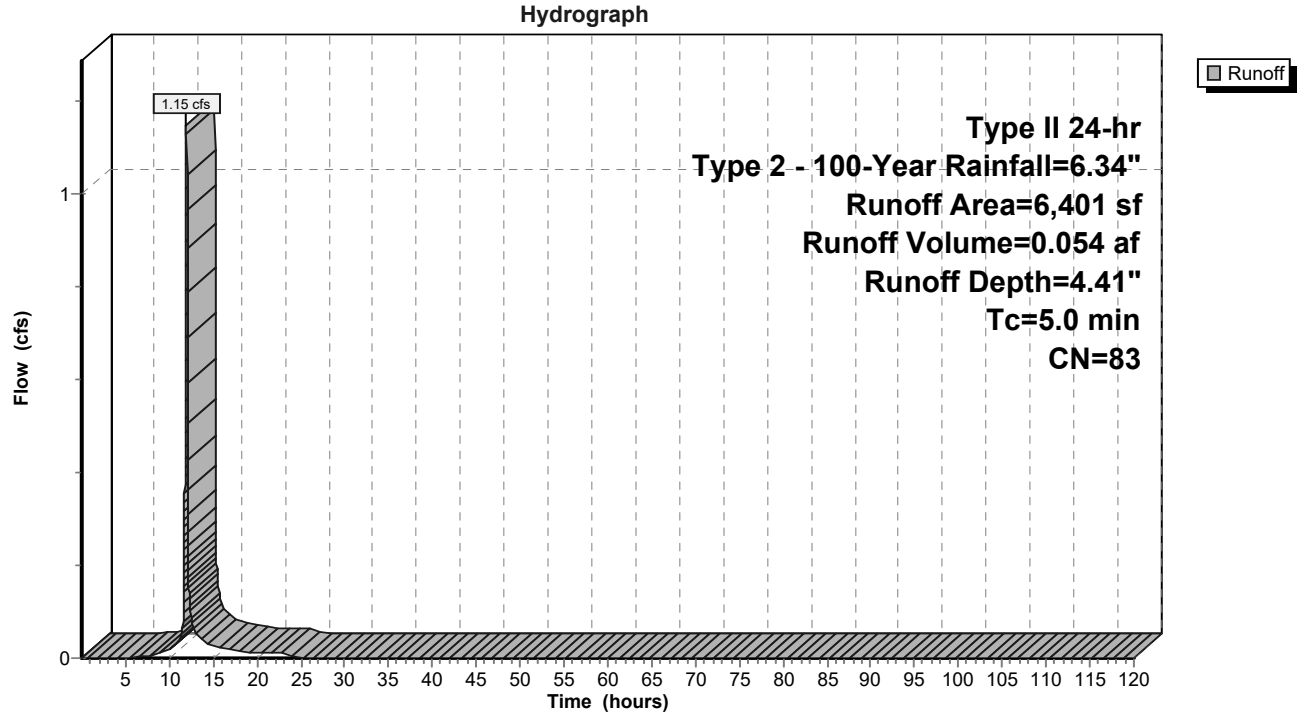
Runoff = 1.15 cfs @ 11.96 hrs, Volume= 0.054 af, Depth= 4.41"
Routed to Link 1 : OFFSITE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
6,401	83	1/4 acre lots, 38% imp, HSG C
3,969		62.00% Pervious Area
2,432		38.00% Impervious Area

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

Subcatchment 2A: 2A



Hydrograph for Subcatchment 2A: 2A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.00
8.01	0.76	0.05	0.01
10.01	1.15	0.20	**0.02**
12.01	4.22	2.47	**0.88**
14.01	5.20	3.36	0.03
16.01	5.58	3.70	0.02
18.01	5.84	3.94	0.02
20.01	6.04	4.13	0.01
22.01	**6.19**	**4.27**	0.01
24.01	**6.34**	**4.41**	0.01
26.01	6.34	4.41	0.00
28.01	6.34	4.41	0.00
30.01	6.34	4.41	0.00
32.01	6.34	4.41	0.00
34.01	6.34	4.41	0.00
36.01	6.34	4.41	0.00
38.01	6.34	4.41	0.00
40.01	6.34	4.41	0.00
42.01	6.34	4.41	0.00
44.01	6.34	4.41	0.00
46.01	6.34	4.41	0.00
48.01	6.34	4.41	0.00
50.01	6.34	4.41	0.00
52.01	6.34	4.41	0.00
54.01	6.34	4.41	0.00
56.01	6.34	4.41	0.00
58.01	6.34	4.41	0.00
60.01	6.34	4.41	0.00
62.01	6.34	4.41	0.00
64.01	6.34	4.41	0.00
66.01	6.34	4.41	0.00
68.01	6.34	4.41	0.00
70.01	6.34	4.41	0.00
72.01	6.34	4.41	0.00
74.01	6.34	4.41	0.00
76.01	6.34	4.41	0.00
78.01	6.34	4.41	0.00
80.01	6.34	4.41	0.00
82.01	6.34	4.41	0.00
84.01	6.34	4.41	0.00
86.01	6.34	4.41	0.00
88.01	6.34	4.41	0.00
90.01	6.34	4.41	0.00
92.01	6.34	4.41	0.00
94.01	6.34	4.41	0.00
96.01	6.34	4.41	0.00
98.01	6.34	4.41	0.00
100.01	6.34	4.41	0.00
102.01	6.34	4.41	0.00
104.01	6.34	4.41	0.00
106.01	6.34	4.41	0.00
108.01	6.34	4.41	0.00
110.01	6.34	4.41	0.00
112.01	6.34	4.41	0.00
114.01	6.34	4.41	0.00
116.01	6.34	4.41	0.00
118.01	6.34	4.41	0.00

Summary for Subcatchment 100A: 100A

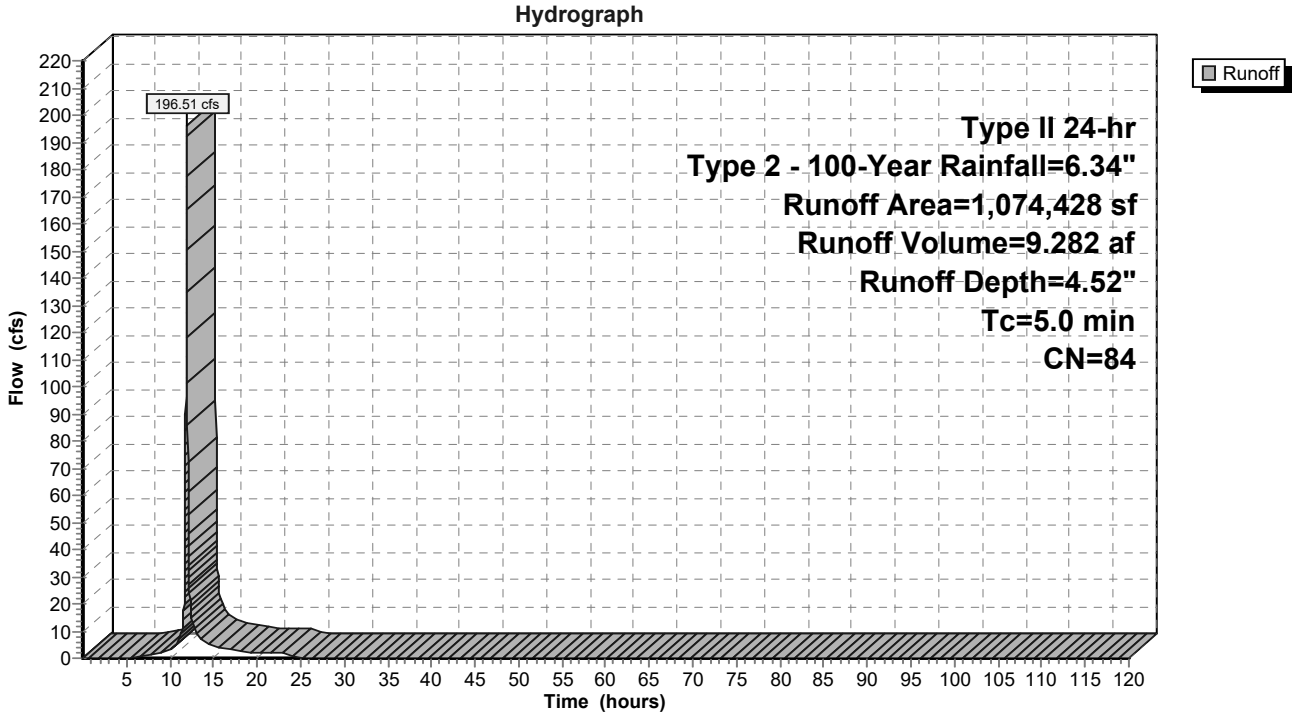
Runoff = 196.51 cfs @ 11.96 hrs, Volume= 9.282 af, Depth= 4.52"
Routed to Pond 100 : 100

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
70,439	98	Water Surface, HSG C
1,003,989	83	1/4 acre lots, 38% imp, HSG C
1,074,428	84	Weighted Average
622,473		57.94% Pervious Area
451,955		42.06% Impervious Area

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

Subcatchment 100A: 100A



Hydrograph for Subcatchment 100A: 100A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.01	0.32
8.01	0.76	0.06	1.03
10.01	1.15	0.22	**2.98**
12.01	4.22	2.56	**150.59**
14.01	5.20	3.45	5.56
16.01	5.58	3.81	3.43
18.01	5.84	4.05	2.67
20.01	6.04	4.23	1.94
22.01	**6.19**	**4.38**	1.78
24.01	**6.34**	**4.52**	1.64
26.01	6.34	4.52	0.00
28.01	6.34	4.52	0.00
30.01	6.34	4.52	0.00
32.01	6.34	4.52	0.00
34.01	6.34	4.52	0.00
36.01	6.34	4.52	0.00
38.01	6.34	4.52	0.00
40.01	6.34	4.52	0.00
42.01	6.34	4.52	0.00
44.01	6.34	4.52	0.00
46.01	6.34	4.52	0.00
48.01	6.34	4.52	0.00
50.01	6.34	4.52	0.00
52.01	6.34	4.52	0.00
54.01	6.34	4.52	0.00
56.01	6.34	4.52	0.00
58.01	6.34	4.52	0.00
60.01	6.34	4.52	0.00
62.01	6.34	4.52	0.00
64.01	6.34	4.52	0.00
66.01	6.34	4.52	0.00
68.01	6.34	4.52	0.00
70.01	6.34	4.52	0.00
72.01	6.34	4.52	0.00
74.01	6.34	4.52	0.00
76.01	6.34	4.52	0.00
78.01	6.34	4.52	0.00
80.01	6.34	4.52	0.00
82.01	6.34	4.52	0.00
84.01	6.34	4.52	0.00
86.01	6.34	4.52	0.00
88.01	6.34	4.52	0.00
90.01	6.34	4.52	0.00
92.01	6.34	4.52	0.00
94.01	6.34	4.52	0.00
96.01	6.34	4.52	0.00
98.01	6.34	4.52	0.00
100.01	6.34	4.52	0.00
102.01	6.34	4.52	0.00
104.01	6.34	4.52	0.00
106.01	6.34	4.52	0.00
108.01	6.34	4.52	0.00
110.01	6.34	4.52	0.00
112.01	6.34	4.52	0.00
114.01	6.34	4.52	0.00
116.01	6.34	4.52	0.00
118.01	6.34	4.52	0.00

Summary for Subcatchment 200A: 200A

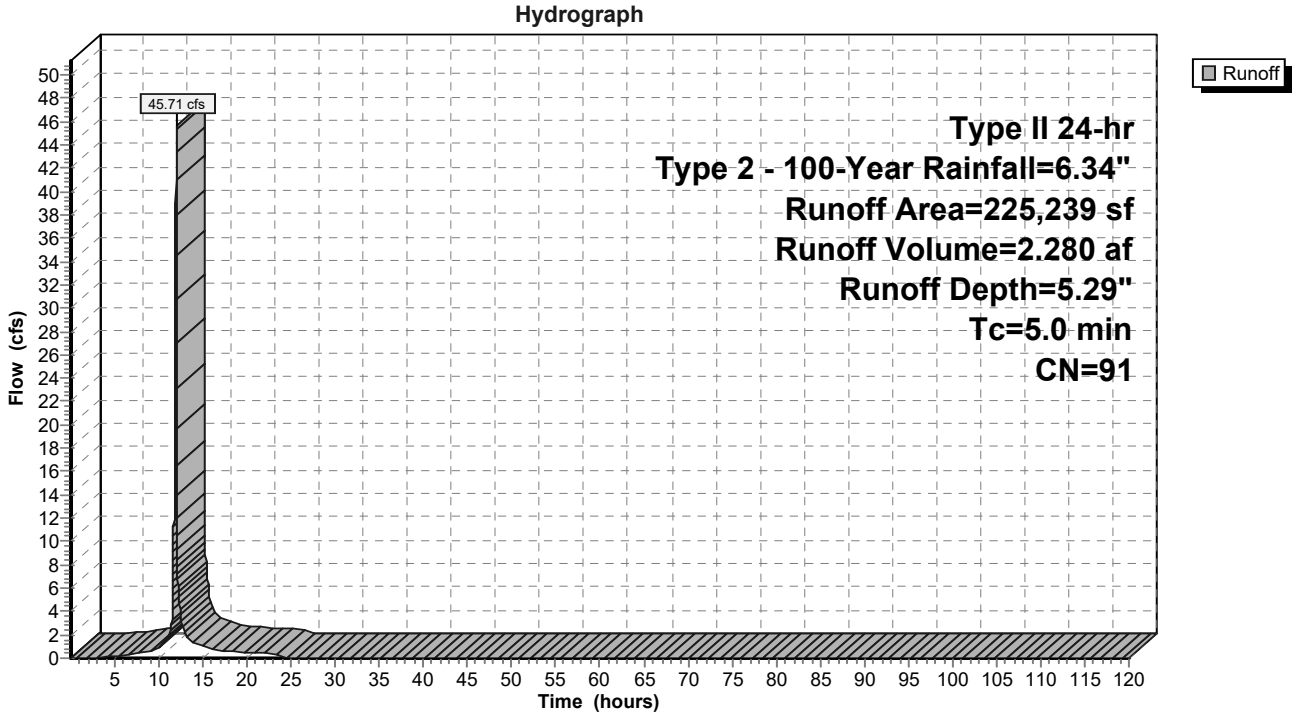
Runoff = 45.71 cfs @ 11.96 hrs, Volume= 2.280 af, Depth= 5.29"
Routed to Pond 200 : 200

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
21,699	98	Water Surface, HSG C
203,540	90	1/8 acre lots, 65% imp, HSG C
225,239	91	Weighted Average
71,239		31.63% Pervious Area
154,000		68.37% Impervious Area

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

Subcatchment 200A: 200A



Hydrograph for Subcatchment 200A: 200A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.01	0.08
6.01	0.51	0.07	0.24
8.01	0.76	0.21	0.43
10.01	1.15	0.47	**0.95**
12.01	4.22	3.22	**34.56**
14.01	5.20	4.18	1.23
16.01	5.58	4.55	0.76
18.01	5.84	4.80	0.59
20.01	6.04	4.99	0.43
22.01	**6.19**	**5.15**	0.39
24.01	**6.34**	**5.29**	0.36
26.01	6.34	5.29	0.00
28.01	6.34	5.29	0.00
30.01	6.34	5.29	0.00
32.01	6.34	5.29	0.00
34.01	6.34	5.29	0.00
36.01	6.34	5.29	0.00
38.01	6.34	5.29	0.00
40.01	6.34	5.29	0.00
42.01	6.34	5.29	0.00
44.01	6.34	5.29	0.00
46.01	6.34	5.29	0.00
48.01	6.34	5.29	0.00
50.01	6.34	5.29	0.00
52.01	6.34	5.29	0.00
54.01	6.34	5.29	0.00
56.01	6.34	5.29	0.00
58.01	6.34	5.29	0.00
60.01	6.34	5.29	0.00
62.01	6.34	5.29	0.00
64.01	6.34	5.29	0.00
66.01	6.34	5.29	0.00
68.01	6.34	5.29	0.00
70.01	6.34	5.29	0.00
72.01	6.34	5.29	0.00
74.01	6.34	5.29	0.00
76.01	6.34	5.29	0.00
78.01	6.34	5.29	0.00
80.01	6.34	5.29	0.00
82.01	6.34	5.29	0.00
84.01	6.34	5.29	0.00
86.01	6.34	5.29	0.00
88.01	6.34	5.29	0.00
90.01	6.34	5.29	0.00
92.01	6.34	5.29	0.00
94.01	6.34	5.29	0.00
96.01	6.34	5.29	0.00
98.01	6.34	5.29	0.00
100.01	6.34	5.29	0.00
102.01	6.34	5.29	0.00
104.01	6.34	5.29	0.00
106.01	6.34	5.29	0.00
108.01	6.34	5.29	0.00
110.01	6.34	5.29	0.00
112.01	6.34	5.29	0.00
114.01	6.34	5.29	0.00
116.01	6.34	5.29	0.00
118.01	6.34	5.29	0.00

Summary for Subcatchment 300A: 300A

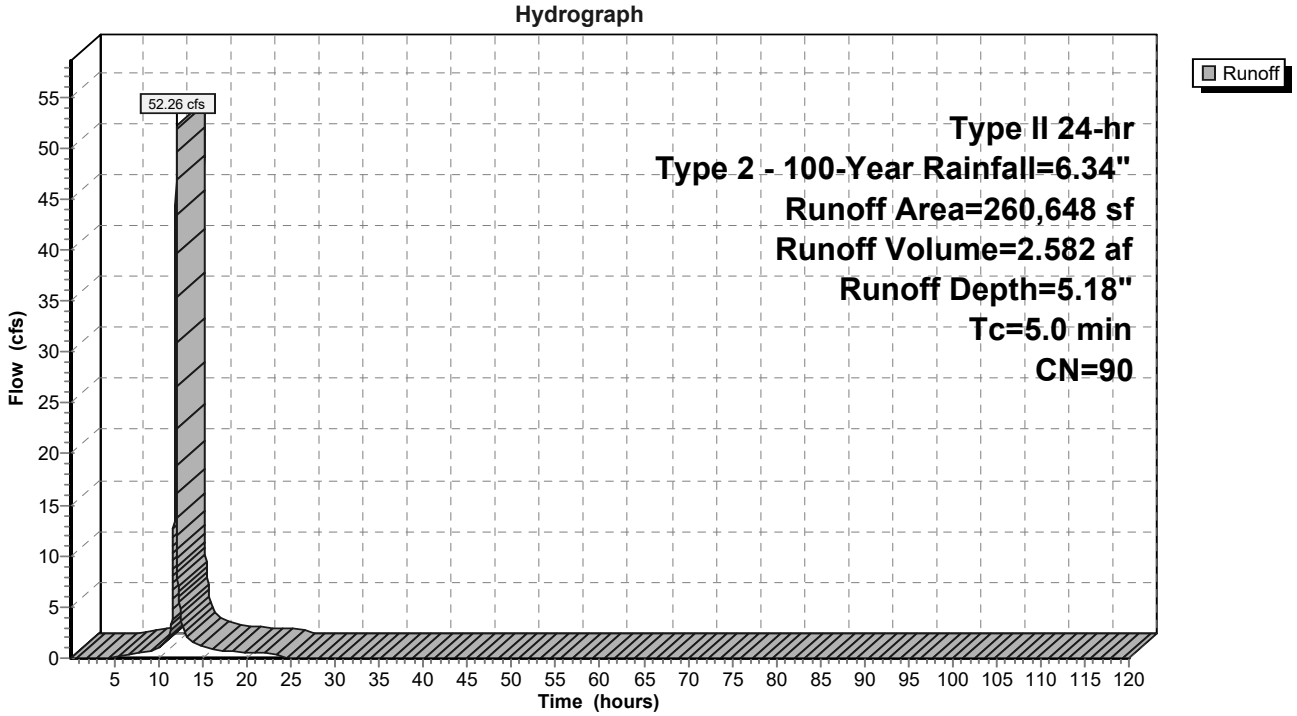
Runoff = 52.26 cfs @ 11.96 hrs, Volume= 2.582 af, Depth= 5.18"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
260,648	90	1/8 acre lots, 65% imp, HSG C
91,227		35.00% Pervious Area
169,421		65.00% Impervious Area

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

Subcatchment 300A: 300A



Hydrograph for Subcatchment 300A: 300A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.01	0.07
6.01	0.51	0.06	0.25
8.01	0.76	0.18	0.45
10.01	1.15	0.42	**1.04**
12.01	4.22	3.12	**39.58**
14.01	5.20	4.07	1.42
16.01	5.58	4.44	0.87
18.01	5.84	4.69	0.68
20.01	6.04	4.88	0.49
22.01	**6.19**	**5.04**	0.45
24.01	**6.34**	**5.18**	0.41
26.01	6.34	5.18	0.00
28.01	6.34	5.18	0.00
30.01	6.34	5.18	0.00
32.01	6.34	5.18	0.00
34.01	6.34	5.18	0.00
36.01	6.34	5.18	0.00
38.01	6.34	5.18	0.00
40.01	6.34	5.18	0.00
42.01	6.34	5.18	0.00
44.01	6.34	5.18	0.00
46.01	6.34	5.18	0.00
48.01	6.34	5.18	0.00
50.01	6.34	5.18	0.00
52.01	6.34	5.18	0.00
54.01	6.34	5.18	0.00
56.01	6.34	5.18	0.00
58.01	6.34	5.18	0.00
60.01	6.34	5.18	0.00
62.01	6.34	5.18	0.00
64.01	6.34	5.18	0.00
66.01	6.34	5.18	0.00
68.01	6.34	5.18	0.00
70.01	6.34	5.18	0.00
72.01	6.34	5.18	0.00
74.01	6.34	5.18	0.00
76.01	6.34	5.18	0.00
78.01	6.34	5.18	0.00
80.01	6.34	5.18	0.00
82.01	6.34	5.18	0.00
84.01	6.34	5.18	0.00
86.01	6.34	5.18	0.00
88.01	6.34	5.18	0.00
90.01	6.34	5.18	0.00
92.01	6.34	5.18	0.00
94.01	6.34	5.18	0.00
96.01	6.34	5.18	0.00
98.01	6.34	5.18	0.00
100.01	6.34	5.18	0.00
102.01	6.34	5.18	0.00
104.01	6.34	5.18	0.00
106.01	6.34	5.18	0.00
108.01	6.34	5.18	0.00
110.01	6.34	5.18	0.00
112.01	6.34	5.18	0.00
114.01	6.34	5.18	0.00
116.01	6.34	5.18	0.00
118.01	6.34	5.18	0.00

Summary for Subcatchment 300B: 300B

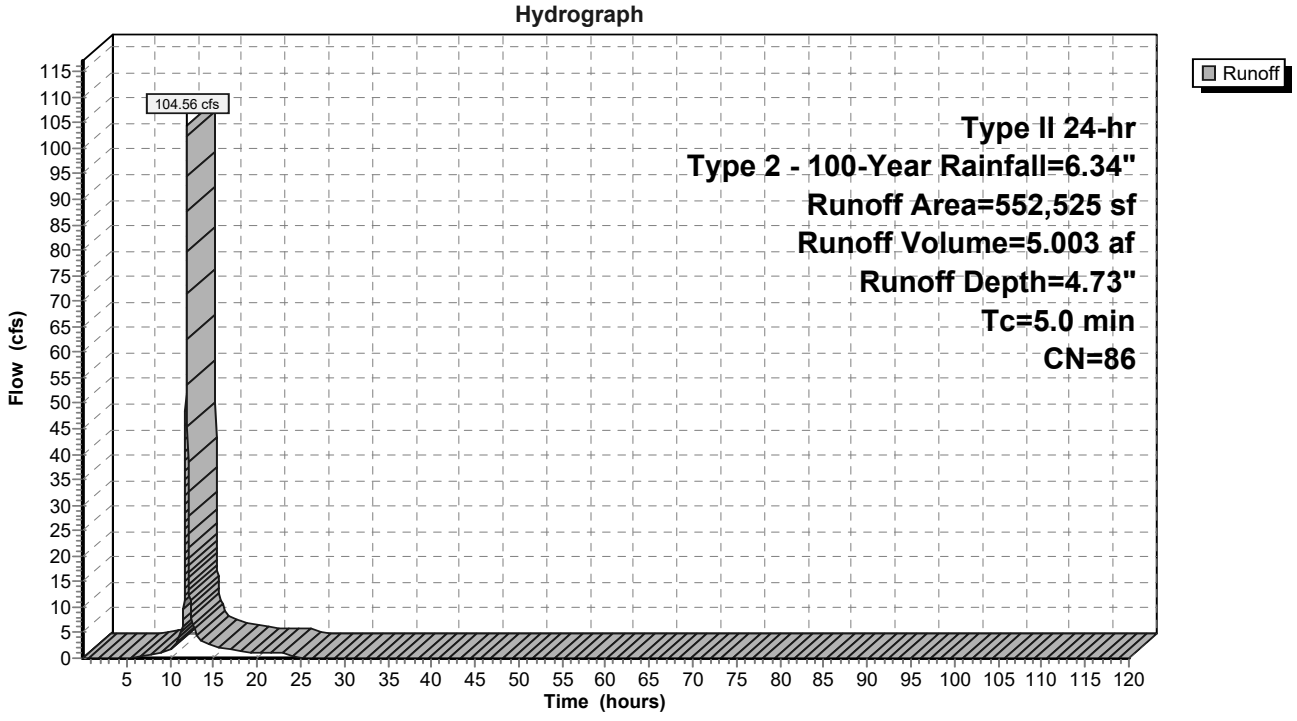
Runoff = 104.56 cfs @ 11.96 hrs, Volume= 5.003 af, Depth= 4.73"
Routed to Pond 300 : 300

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
442,263	83	1/4 acre lots, 38% imp, HSG C
110,262	98	Water Surface, HSG C
552,525	86	Weighted Average
274,203		49.63% Pervious Area
278,322		50.37% Impervious Area

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

Subcatchment 300B: 300B



Hydrograph for Subcatchment 300B: 300B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.02	0.27
8.01	0.76	0.09	0.66
10.01	1.15	0.28	**1.74**
12.01	4.22	2.74	**79.79**
14.01	5.20	3.66	2.91
16.01	5.58	4.01	1.80
18.01	5.84	4.26	1.40
20.01	6.04	4.44	1.02
22.01	**6.19**	**4.59**	0.93
24.01	**6.34**	**4.73**	0.85
26.01	6.34	4.73	0.00
28.01	6.34	4.73	0.00
30.01	6.34	4.73	0.00
32.01	6.34	4.73	0.00
34.01	6.34	4.73	0.00
36.01	6.34	4.73	0.00
38.01	6.34	4.73	0.00
40.01	6.34	4.73	0.00
42.01	6.34	4.73	0.00
44.01	6.34	4.73	0.00
46.01	6.34	4.73	0.00
48.01	6.34	4.73	0.00
50.01	6.34	4.73	0.00
52.01	6.34	4.73	0.00
54.01	6.34	4.73	0.00
56.01	6.34	4.73	0.00
58.01	6.34	4.73	0.00
60.01	6.34	4.73	0.00
62.01	6.34	4.73	0.00
64.01	6.34	4.73	0.00
66.01	6.34	4.73	0.00
68.01	6.34	4.73	0.00
70.01	6.34	4.73	0.00
72.01	6.34	4.73	0.00
74.01	6.34	4.73	0.00
76.01	6.34	4.73	0.00
78.01	6.34	4.73	0.00
80.01	6.34	4.73	0.00
82.01	6.34	4.73	0.00
84.01	6.34	4.73	0.00
86.01	6.34	4.73	0.00
88.01	6.34	4.73	0.00
90.01	6.34	4.73	0.00
92.01	6.34	4.73	0.00
94.01	6.34	4.73	0.00
96.01	6.34	4.73	0.00
98.01	6.34	4.73	0.00
100.01	6.34	4.73	0.00
102.01	6.34	4.73	0.00
104.01	6.34	4.73	0.00
106.01	6.34	4.73	0.00
108.01	6.34	4.73	0.00
110.01	6.34	4.73	0.00
112.01	6.34	4.73	0.00
114.01	6.34	4.73	0.00
116.01	6.34	4.73	0.00
118.01	6.34	4.73	0.00

Summary for Subcatchment 400A: 400A

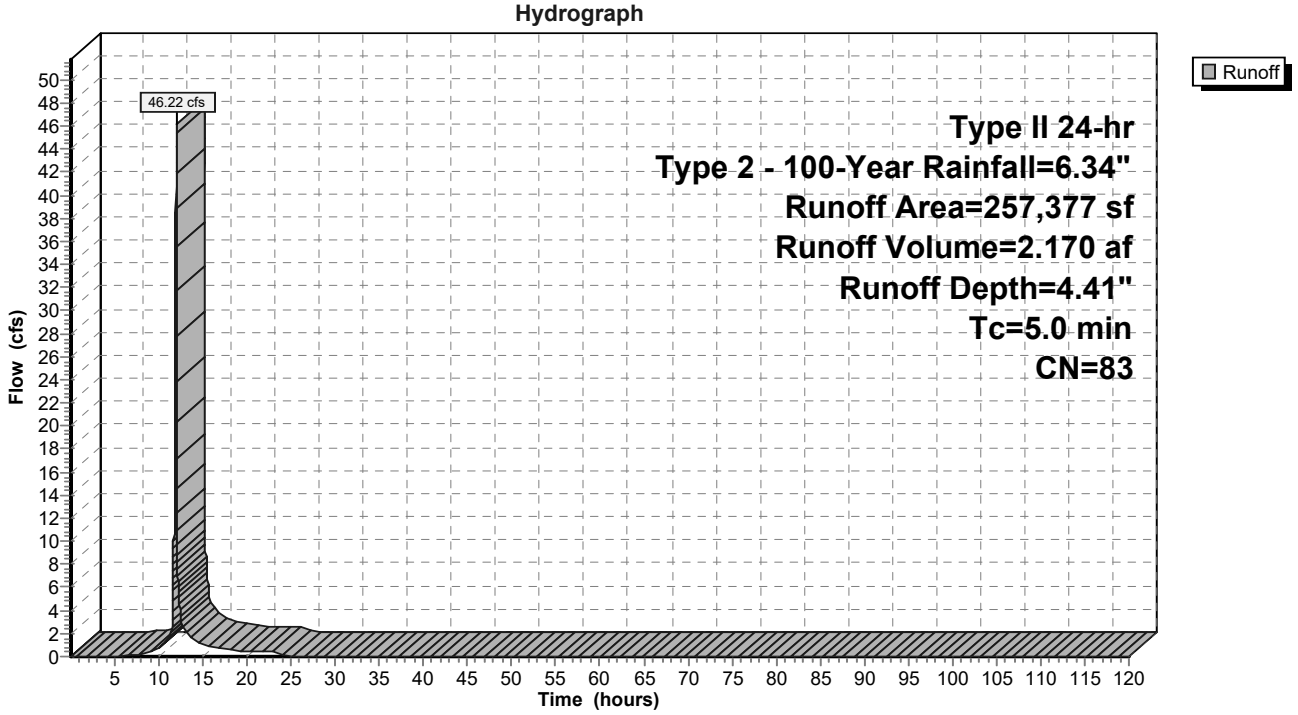
Runoff = 46.22 cfs @ 11.96 hrs, Volume= 2.170 af, Depth= 4.41"
Routed to Pond 400 : 400

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
47,305	70	Woods, Good, HSG C
35,903	98	Water Surface, HSG C
174,169	83	1/4 acre lots, 38% imp, HSG C
257,377	83	Weighted Average
155,290		60.34% Pervious Area
102,087		39.66% Impervious Area

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

Subcatchment 400A: 400A



Hydrograph for Subcatchment 400A: 400A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.00	0.06
8.01	0.76	0.05	0.22
10.01	1.15	0.20	**0.67**
12.01	4.22	2.47	**35.50**
14.01	5.20	3.36	1.32
16.01	5.58	3.70	0.81
18.01	5.84	3.94	0.63
20.01	6.04	4.13	0.46
22.01	**6.19**	**4.27**	0.42
24.01	**6.34**	**4.41**	0.39
26.01	6.34	4.41	0.00
28.01	6.34	4.41	0.00
30.01	6.34	4.41	0.00
32.01	6.34	4.41	0.00
34.01	6.34	4.41	0.00
36.01	6.34	4.41	0.00
38.01	6.34	4.41	0.00
40.01	6.34	4.41	0.00
42.01	6.34	4.41	0.00
44.01	6.34	4.41	0.00
46.01	6.34	4.41	0.00
48.01	6.34	4.41	0.00
50.01	6.34	4.41	0.00
52.01	6.34	4.41	0.00
54.01	6.34	4.41	0.00
56.01	6.34	4.41	0.00
58.01	6.34	4.41	0.00
60.01	6.34	4.41	0.00
62.01	6.34	4.41	0.00
64.01	6.34	4.41	0.00
66.01	6.34	4.41	0.00
68.01	6.34	4.41	0.00
70.01	6.34	4.41	0.00
72.01	6.34	4.41	0.00
74.01	6.34	4.41	0.00
76.01	6.34	4.41	0.00
78.01	6.34	4.41	0.00
80.01	6.34	4.41	0.00
82.01	6.34	4.41	0.00
84.01	6.34	4.41	0.00
86.01	6.34	4.41	0.00
88.01	6.34	4.41	0.00
90.01	6.34	4.41	0.00
92.01	6.34	4.41	0.00
94.01	6.34	4.41	0.00
96.01	6.34	4.41	0.00
98.01	6.34	4.41	0.00
100.01	6.34	4.41	0.00
102.01	6.34	4.41	0.00
104.01	6.34	4.41	0.00
106.01	6.34	4.41	0.00
108.01	6.34	4.41	0.00
110.01	6.34	4.41	0.00
112.01	6.34	4.41	0.00
114.01	6.34	4.41	0.00
116.01	6.34	4.41	0.00
118.01	6.34	4.41	0.00

Summary for Subcatchment 500A: 500A

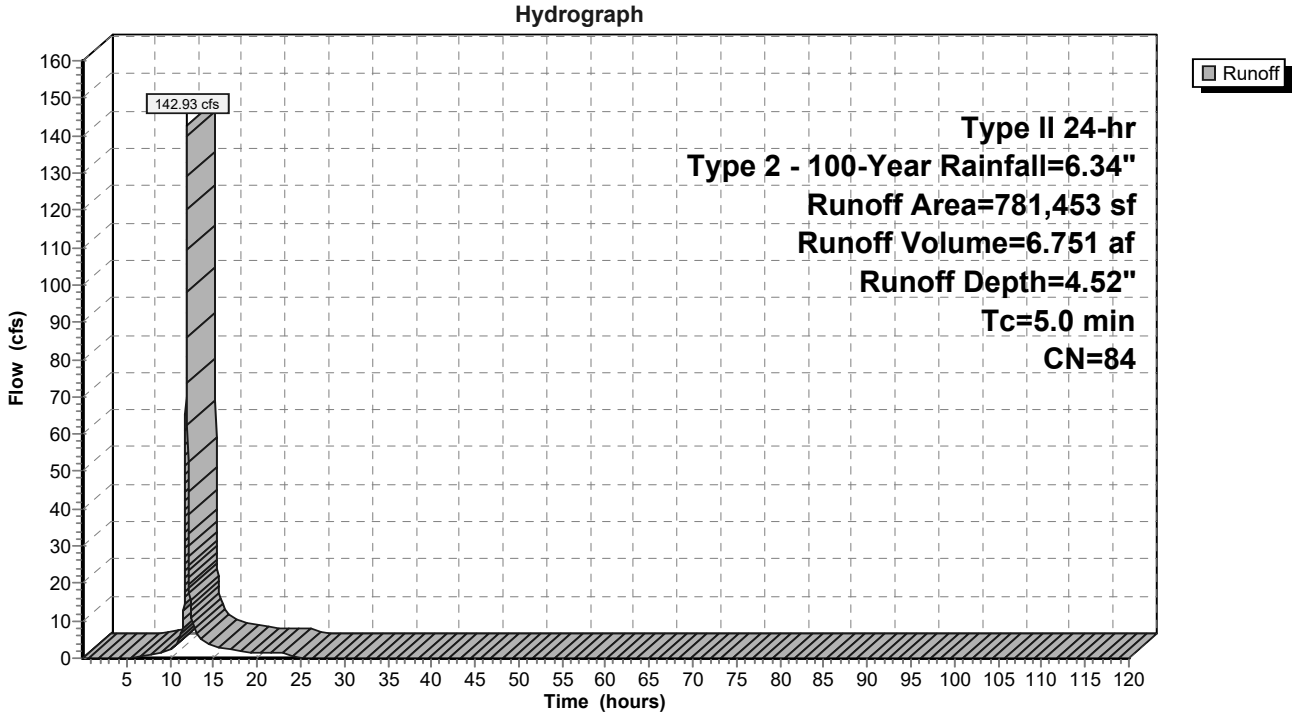
Runoff = 142.93 cfs @ 11.96 hrs, Volume= 6.751 af, Depth= 4.52"
Routed to Pond 500 : 500

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Type II 24-hr Type 2 - 100-Year Rainfall=6.34"

Area (sf)	CN	Description
57,355	98	Water Surface, HSG C
724,098	83	1/4 acre lots, 38% imp, HSG C
781,453	84	Weighted Average
448,941		57.45% Pervious Area
332,512		42.55% Impervious Area

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

Subcatchment 500A: 500A



Hydrograph for Subcatchment 500A: 500A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.01	0.00	0.00	0.00
2.01	0.14	0.00	0.00
4.01	0.31	0.00	0.00
6.01	0.51	0.01	0.23
8.01	0.76	0.06	0.75
10.01	1.15	0.22	**2.17**
12.01	4.22	2.56	**109.53**
14.01	5.20	3.45	4.04
16.01	5.58	3.81	2.50
18.01	5.84	4.05	1.94
20.01	6.04	4.23	1.41
22.01	**6.19**	**4.38**	1.30
24.01	**6.34**	**4.52**	1.19
26.01	6.34	4.52	0.00
28.01	6.34	4.52	0.00
30.01	6.34	4.52	0.00
32.01	6.34	4.52	0.00
34.01	6.34	4.52	0.00
36.01	6.34	4.52	0.00
38.01	6.34	4.52	0.00
40.01	6.34	4.52	0.00
42.01	6.34	4.52	0.00
44.01	6.34	4.52	0.00
46.01	6.34	4.52	0.00
48.01	6.34	4.52	0.00
50.01	6.34	4.52	0.00
52.01	6.34	4.52	0.00
54.01	6.34	4.52	0.00
56.01	6.34	4.52	0.00
58.01	6.34	4.52	0.00
60.01	6.34	4.52	0.00
62.01	6.34	4.52	0.00
64.01	6.34	4.52	0.00
66.01	6.34	4.52	0.00
68.01	6.34	4.52	0.00
70.01	6.34	4.52	0.00
72.01	6.34	4.52	0.00
74.01	6.34	4.52	0.00
76.01	6.34	4.52	0.00
78.01	6.34	4.52	0.00
80.01	6.34	4.52	0.00
82.01	6.34	4.52	0.00
84.01	6.34	4.52	0.00
86.01	6.34	4.52	0.00
88.01	6.34	4.52	0.00
90.01	6.34	4.52	0.00
92.01	6.34	4.52	0.00
94.01	6.34	4.52	0.00
96.01	6.34	4.52	0.00
98.01	6.34	4.52	0.00
100.01	6.34	4.52	0.00
102.01	6.34	4.52	0.00
104.01	6.34	4.52	0.00
106.01	6.34	4.52	0.00
108.01	6.34	4.52	0.00
110.01	6.34	4.52	0.00
112.01	6.34	4.52	0.00
114.01	6.34	4.52	0.00
116.01	6.34	4.52	0.00
118.01	6.34	4.52	0.00

Summary for Pond 100: 100

Inflow Area = 24.665 ac, 42.06% Impervious, Inflow Depth = 4.52" for Type 2 - 100-Year event
Inflow = 196.51 cfs @ 11.96 hrs, Volume= 9.282 af
Outflow = 1.66 cfs @ 23.75 hrs, Volume= 8.138 af, Atten= 99%, Lag= 707.4 min
Primary = 1.66 cfs @ 23.75 hrs, Volume= 8.138 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 879.00' Surf.Area= 70,439 sf Storage= 207,488 cf
Peak Elev= 882.82' @ 23.75 hrs Surf.Area= 104,345 sf Storage= 540,850 cf (333,363 cf above start)

Plug-Flow detention time= 3,702.7 min calculated for 3.375 af (36% of inflow)
Center-of-Mass det. time= 2,078.1 min (2,875.5 - 797.4)

Volume	Invert	Avail.Storage	Storage Description
#1	874.00'	670,255 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

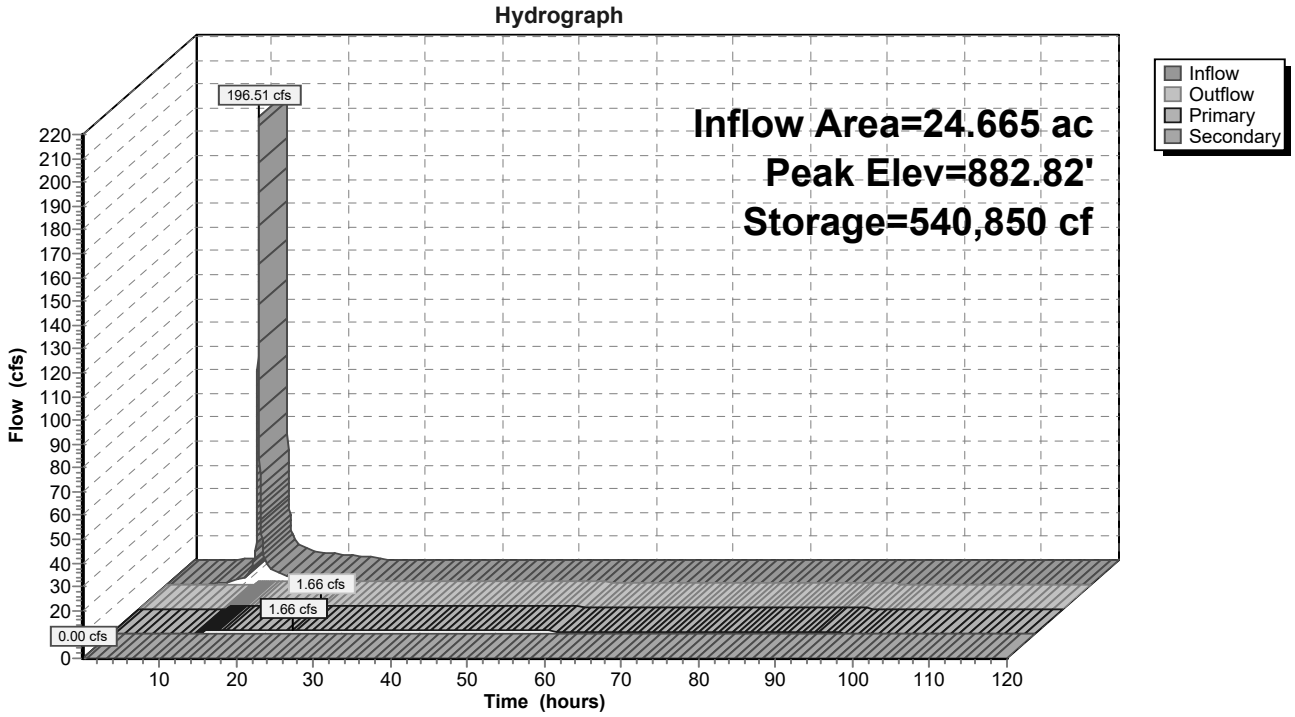
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
874.00	24,774	0	0
875.00	30,784	27,779	27,779
876.00	36,863	33,824	61,603
877.00	43,009	39,936	101,539
878.00	49,225	46,117	147,656
879.00	70,439	59,832	207,488
880.00	79,139	74,789	282,277
881.00	87,959	83,549	365,826
882.00	96,903	92,431	458,257
883.00	105,969	101,436	559,693
884.00	115,156	110,563	670,255

Device	Routing	Invert	Outlet Devices
#1	Primary	879.00'	**24.0" Round RCP_Round 24"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 879.00' / 878.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	879.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	883.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.66 cfs @ 23.75 hrs HW=882.82' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.66 cfs of 22.42 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.66 cfs @ 8.44 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=879.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 100: 100


Hydrograph
Inflow Area=24.665 ac
Peak Elev=882.82'
Storage=540,850 cf
196.51 cfs
1.66 cfs
1.66 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220

Hydrograph for Pond 100: 100

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	207,488	879.00	0.00	0.00	**0.00**
5.01	0.03	207,495	879.00	0.00	0.00	0.00
10.01	**2.98**	226,453	879.26	0.00	0.00	0.00
15.01	**4.44**	515,723	882.58	1.59	1.59	0.00
20.01	1.94	**539,027**	**882.80**	**1.65**	**1.65**	0.00
25.01	0.00	**535,305**	**882.77**	**1.64**	**1.64**	0.00
30.01	0.00	506,448	882.49	1.56	1.56	0.00
35.01	0.00	479,020	882.21	1.48	1.48	0.00
40.01	0.00	453,057	881.95	1.40	1.40	0.00
45.01	0.00	428,596	881.69	1.32	1.32	0.00
50.01	0.00	405,674	881.44	1.23	1.23	0.00
55.01	0.00	384,328	881.21	1.14	1.14	0.00
60.01	0.00	364,593	880.99	1.05	1.05	0.00
65.01	0.00	346,507	880.78	0.96	0.96	0.00
70.01	0.00	330,106	880.59	0.86	0.86	0.00
75.01	0.00	315,424	880.41	0.77	0.77	0.00
80.01	0.00	302,492	880.25	0.67	0.67	0.00
85.01	0.00	291,345	880.11	0.57	0.57	0.00
90.01	0.00	282,006	880.00	0.47	0.47	0.00
95.01	0.00	274,544	879.90	0.36	0.36	0.00
100.01	0.00	268,890	879.83	0.27	0.27	0.00
105.01	0.00	264,721	879.78	0.20	0.20	0.00
110.01	0.00	261,569	879.73	0.15	0.15	0.00
115.01	0.00	259,176	879.70	0.12	0.12	0.00

Summary for Pond 200: 200

Inflow Area = 5.171 ac, 68.37% Impervious, Inflow Depth = 5.29" for Type 2 - 100-Year event
Inflow = 45.71 cfs @ 11.96 hrs, Volume= 2.280 af
Outflow = 1.32 cfs @ 13.88 hrs, Volume= 2.020 af, Atten= 97%, Lag= 115.3 min
Primary = 1.32 cfs @ 13.88 hrs, Volume= 2.020 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 21,699 sf Storage= 70,918 cf
Peak Elev= 877.69' @ 13.88 hrs Surf.Area= 28,660 sf Storage= 138,507 cf (67,590 cf above start)

Plug-Flow detention time= 1,824.9 min calculated for 0.392 af (17% of inflow)
Center-of-Mass det. time= 649.3 min (1,424.3 - 775.0)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	177,226 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

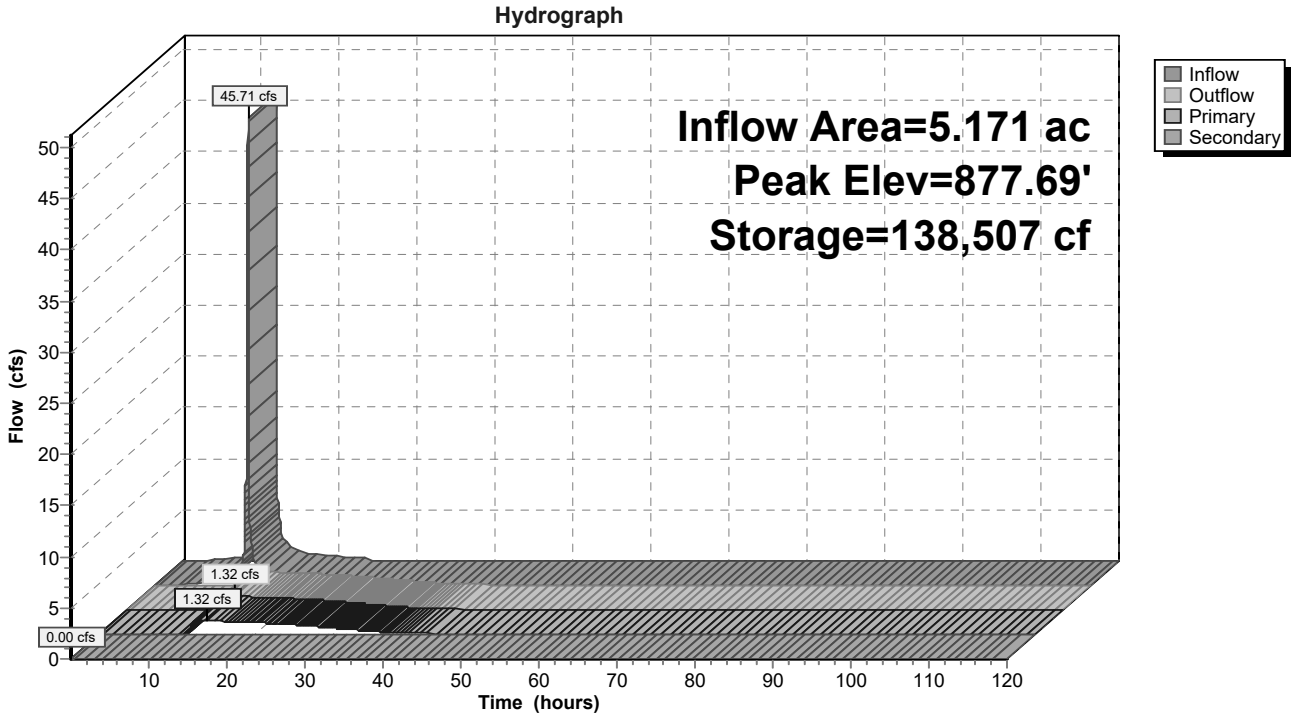
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	10,192	0	0
871.00	11,543	10,868	10,868
872.00	12,964	12,254	23,121
873.00	14,453	13,709	36,830
874.00	16,012	15,233	52,062
875.00	21,699	18,856	70,918
876.00	24,181	22,940	93,858
877.00	26,780	25,481	119,338
878.00	29,498	28,139	147,477
879.00	30,000	29,749	177,226

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**12.0" Round RCP_Round 12"** L= 70.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0143 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 0.79 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	878.00'	**60.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.32 cfs @ 13.88 hrs HW=877.69' (Free Discharge)
└**1=RCP_Round 12"** (Passes 1.32 cfs of 4.94 cfs potential flow)
  └**2=Orifice/Grate** (Orifice Controls 1.32 cfs @ 6.71 fps)
  └**3=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└**4=Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 200: 200



Hydrograph for Pond 200: 200

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	70,918	875.00	0.00	0.00	**0.00**
5.01	0.16	71,519	875.03	0.00	0.00	0.00
10.01	**0.95**	**79,418**	**875.38**	**0.00**	**0.00**	0.00
15.01	**0.98**	**137,703**	**877.66**	**1.31**	**1.31**	0.00
20.01	0.43	126,855	877.28	1.17	1.17	0.00
25.01	0.00	113,280	876.77	0.96	0.96	0.00
30.01	0.00	98,910	876.21	0.64	0.64	0.00
35.01	0.00	90,407	875.86	0.30	0.30	0.00
40.01	0.00	86,884	875.71	0.12	0.12	0.00
45.01	0.00	85,337	875.64	0.06	0.06	0.00
50.01	0.00	84,472	875.60	0.04	0.04	0.00
55.01	0.00	83,970	875.58	0.02	0.02	0.00
60.01	0.00	83,640	875.57	0.02	0.02	0.00
65.01	0.00	83,369	875.56	0.01	0.01	0.00
70.01	0.00	83,145	875.55	0.01	0.01	0.00
75.01	0.00	82,959	875.54	0.01	0.01	0.00
80.01	0.00	82,806	875.53	0.01	0.01	0.00
85.01	0.00	82,680	875.53	0.01	0.01	0.00
90.01	0.00	82,575	875.52	0.01	0.01	0.00
95.01	0.00	82,489	875.52	0.00	0.00	0.00
100.01	0.00	82,417	875.51	0.00	0.00	0.00
105.01	0.00	82,358	875.51	0.00	0.00	0.00
110.01	0.00	82,309	875.51	0.00	0.00	0.00
115.01	0.00	82,269	875.51	0.00	0.00	0.00

Summary for Pond 300: 300

Inflow Area = 24.576 ac, 51.36% Impervious, Inflow Depth = 4.55" for Type 2 - 100-Year event
Inflow = 157.31 cfs @ 11.96 hrs, Volume= 9.310 af
Outflow = 6.15 cfs @ 13.61 hrs, Volume= 7.605 af, Atten= 96%, Lag= 98.8 min
Primary = 6.15 cfs @ 13.61 hrs, Volume= 7.605 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 875.00' Surf.Area= 110,262 sf Storage= 389,084 cf
Peak Elev= 876.85' @ 13.61 hrs Surf.Area= 131,112 sf Storage= 611,984 cf (222,900 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 956.2 min (1,901.7 - 945.5)

Volume	Invert	Avail.Storage	Storage Description
#1	870.00'	920,841 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

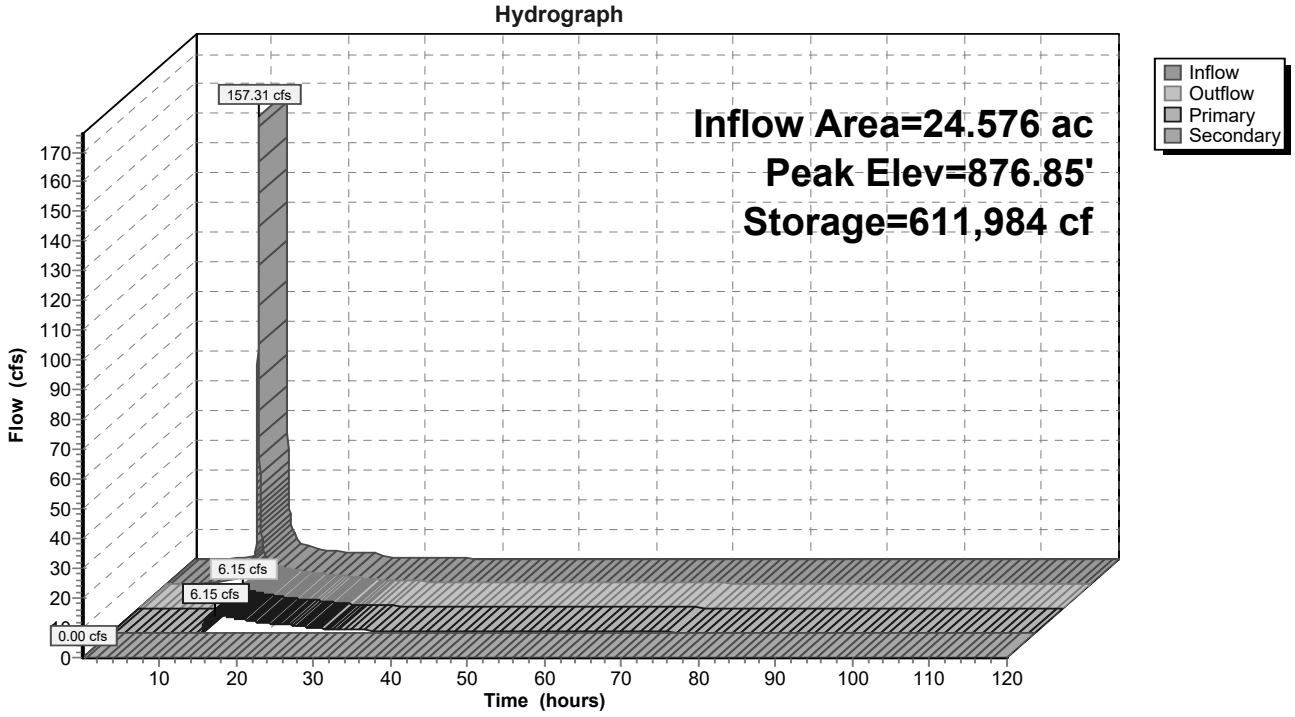
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
870.00	61,061	0	0
871.00	66,666	63,864	63,864
872.00	72,581	69,624	133,487
873.00	78,813	75,697	209,184
874.00	85,362	82,088	291,272
875.00	110,262	97,812	389,084
876.00	121,491	115,877	504,960
877.00	132,845	127,168	632,128
878.00	144,325	138,585	770,713
879.00	155,931	150,128	920,841

Device	Routing	Invert	Outlet Devices
#1	Primary	875.00'	**24.0" Round RCP_Round 24"** L= 100.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 875.00' / 874.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	875.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	876.30'	**4.0' long Sharp-Crested Rectangular Weir** 2 End Contraction(s)
#4	Device 1	878.00'	**48.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Secondary	878.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=6.14 cfs @ 13.61 hrs HW=876.85' (Free Discharge)
└─**1=RCP_Round 24"** (Passes 6.14 cfs of 12.38 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.99 cfs @ 5.04 fps)
  ├─**3=Sharp-Crested Rectangular Weir** (Weir Controls 5.15 cfs @ 2.42 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=875.00' (Free Discharge)
└─**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 300: 300



Hydrograph for Pond 300: 300

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	389,084	875.00	0.00	0.00	**0.00**
5.01	0.25	389,698	875.01	0.00	0.00	0.00
10.01	**2.78**	**410,231**	**875.19**	**0.00**	**0.00**	0.00
15.01	**4.38**	**607,379**	**876.81**	**5.66**	**5.66**	0.00
20.01	2.38	584,771	876.64	3.43	3.43	0.00
25.01	0.76	569,236	876.52	2.15	2.15	0.00
30.01	0.56	553,462	876.39	1.12	1.12	0.00
35.01	0.35	544,579	876.32	0.80	0.80	0.00
40.01	0.19	536,570	876.26	0.67	0.67	0.00
45.01	0.11	527,573	876.18	0.62	0.62	0.00
50.01	0.07	518,494	876.11	0.57	0.57	0.00
55.01	0.05	509,927	876.04	0.51	0.51	0.00
60.01	0.04	502,069	875.98	0.45	0.45	0.00
65.01	0.03	495,087	875.92	0.39	0.39	0.00
70.01	0.02	489,203	875.87	0.32	0.32	0.00
75.01	0.02	484,298	875.83	0.27	0.27	0.00
80.01	0.02	480,210	875.79	0.22	0.22	0.00
85.01	0.01	476,802	875.77	0.19	0.19	0.00
90.01	0.01	473,933	875.74	0.16	0.16	0.00
95.01	0.01	471,465	875.72	0.14	0.14	0.00
100.01	0.01	469,340	875.70	0.12	0.12	0.00
105.01	0.01	467,512	875.69	0.10	0.10	0.00
110.01	0.01	465,939	875.67	0.09	0.09	0.00
115.01	0.00	464,569	875.66	0.08	0.08	0.00

Summary for Pond 400: 400

Inflow Area = 5.909 ac, 39.66% Impervious, Inflow Depth = 4.41" for Type 2 - 100-Year event
Inflow = 46.22 cfs @ 11.96 hrs, Volume= 2.170 af
Outflow = 0.93 cfs @ 15.54 hrs, Volume= 1.725 af, Atten= 98%, Lag= 215.0 min
Primary = 0.93 cfs @ 15.54 hrs, Volume= 1.725 af
Routed to Pond 300 : 300
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Pond 300 : 300

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 877.00' Surf.Area= 35,903 sf Storage= 129,985 cf
Peak Elev= 878.71' @ 15.54 hrs Surf.Area= 41,558 sf Storage= 196,219 cf (66,234 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= 841.6 min (1,641.7 - 800.1)

Volume	Invert	Avail.Storage	Storage Description
#1	872.00'	252,651 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

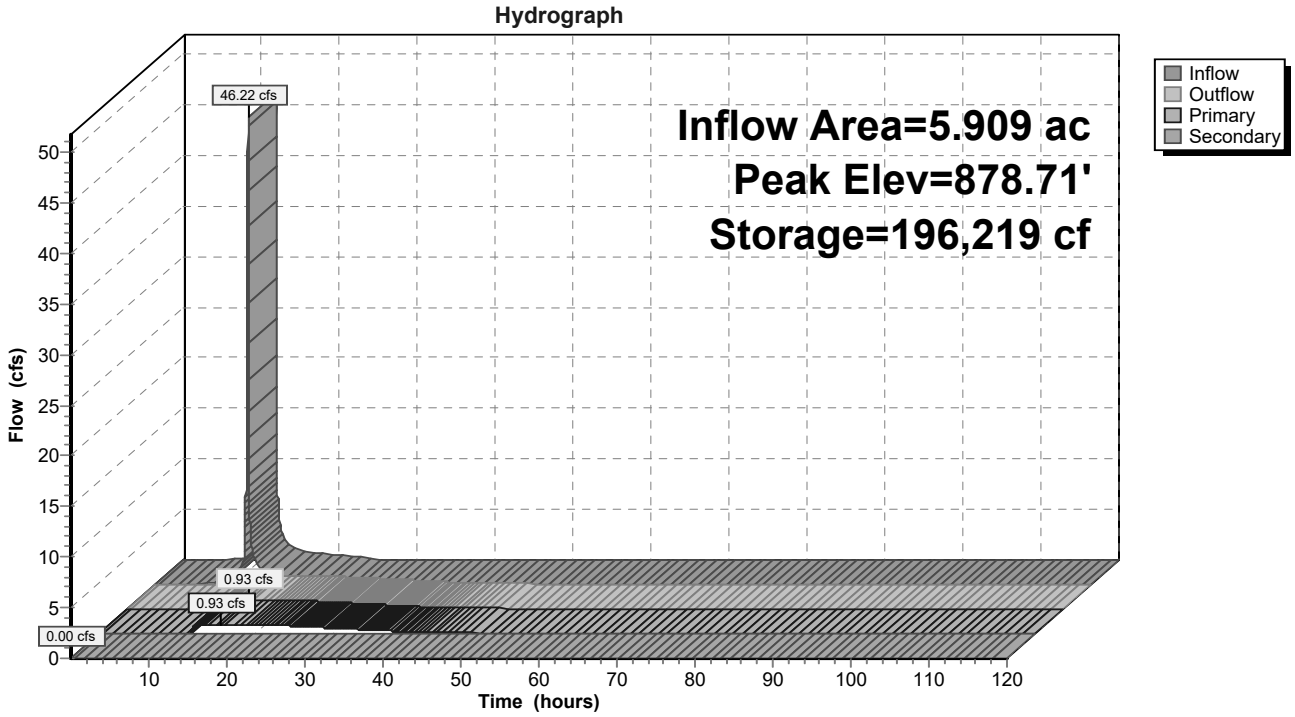
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
872.00	20,703	0	0
873.00	22,504	21,604	21,604
874.00	24,391	23,448	45,051
875.00	26,364	25,378	70,429
876.00	28,423	27,394	97,822
877.00	35,903	32,163	129,985
878.00	39,148	37,526	167,511
879.00	42,535	40,842	208,352
880.00	46,063	44,299	252,651

Device	Routing	Invert	Outlet Devices
#1	Primary	877.00'	**24.0" Round RCP_Round 24"** L= 90.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 877.00' / 876.50' S= 0.0056 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	877.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	879.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=0.93 cfs @ 15.54 hrs HW=878.71' TW=876.30' (Fixed TW Elev= 876.30')
└─**1=RCP_Round 24"** (Passes 0.93 cfs of 10.70 cfs potential flow)
└─**2=Orifice/Grate** (Orifice Controls 0.93 cfs @ 4.72 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=877.00' (Free Discharge)
└─**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 400: 400


Hydrograph
Inflow Area=5.909 ac
Peak Elev=878.71'
Storage=196,219 cf
Inflow
Outflow
Primary
Secondary
46.22 cfs
0.93 cfs
0.93 cfs
0.00 cfs
Flow (cfs)
Time (hours)
0
5
10
15
20
25
30
35
40
45
50
10
20
30
40
50
60
70
80
90
100
110
120

Hydrograph for Pond 400: 400

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	129,985	877.00	0.00	0.00	**0.00**
5.01	0.00	129,985	877.00	0.00	0.00	0.00
10.01	**0.67**	134,013	877.11	0.00	0.00	0.00
15.01	**1.05**	**196,098**	**878.71**	**0.93**	**0.93**	0.00
20.01	0.46	**192,203**	**878.61**	**0.88**	**0.88**	0.00
25.01	0.00	183,477	878.40	0.76	0.76	0.00
30.01	0.00	171,558	878.10	0.56	0.56	0.00
35.01	0.00	163,320	877.89	0.35	0.35	0.00
40.01	0.00	158,581	877.77	0.19	0.19	0.00
45.01	0.00	155,908	877.70	0.11	0.11	0.00
50.01	0.00	154,274	877.66	0.07	0.07	0.00
55.01	0.00	153,157	877.63	0.05	0.05	0.00
60.01	0.00	152,383	877.61	0.04	0.04	0.00
65.01	0.00	151,832	877.59	0.03	0.03	0.00
70.01	0.00	151,378	877.58	0.02	0.02	0.00
75.01	0.00	150,996	877.57	0.02	0.02	0.00
80.01	0.00	150,674	877.56	0.02	0.02	0.00
85.01	0.00	150,404	877.55	0.01	0.01	0.00
90.01	0.00	150,176	877.55	0.01	0.01	0.00
95.01	0.00	149,984	877.54	0.01	0.01	0.00
100.01	0.00	149,822	877.54	0.01	0.01	0.00
105.01	0.00	149,686	877.54	0.01	0.01	0.00
110.01	0.00	149,571	877.53	0.01	0.01	0.00
115.01	0.00	149,475	877.53	0.00	0.00	0.00

Summary for Pond 500: 500

Inflow Area = 17.940 ac, 42.55% Impervious, Inflow Depth = 4.52" for Type 2 - 100-Year event
Inflow = 142.93 cfs @ 11.96 hrs, Volume= 6.751 af
Outflow = 1.55 cfs @ 19.50 hrs, Volume= 5.944 af, Atten= 99%, Lag= 452.3 min
Primary = 1.55 cfs @ 19.50 hrs, Volume= 5.944 af
Routed to Link 1 : OFFSITE
Secondary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af
Routed to Link 1 : OFFSITE

Routing by Stor-Ind method, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs
Starting Elev= 899.00' Surf.Area= 57,355 sf Storage= 196,414 cf
Peak Elev= 902.44' @ 19.50 hrs Surf.Area= 77,263 sf Storage= 427,534 cf (231,120 cf above start)

Plug-Flow detention time= 3,557.1 min calculated for 1.435 af (21% of inflow)
Center-of-Mass det. time= 1,625.9 min (2,423.3 - 797.4)

Volume	Invert	Avail.Storage	Storage Description
#1	894.00'	555,429 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

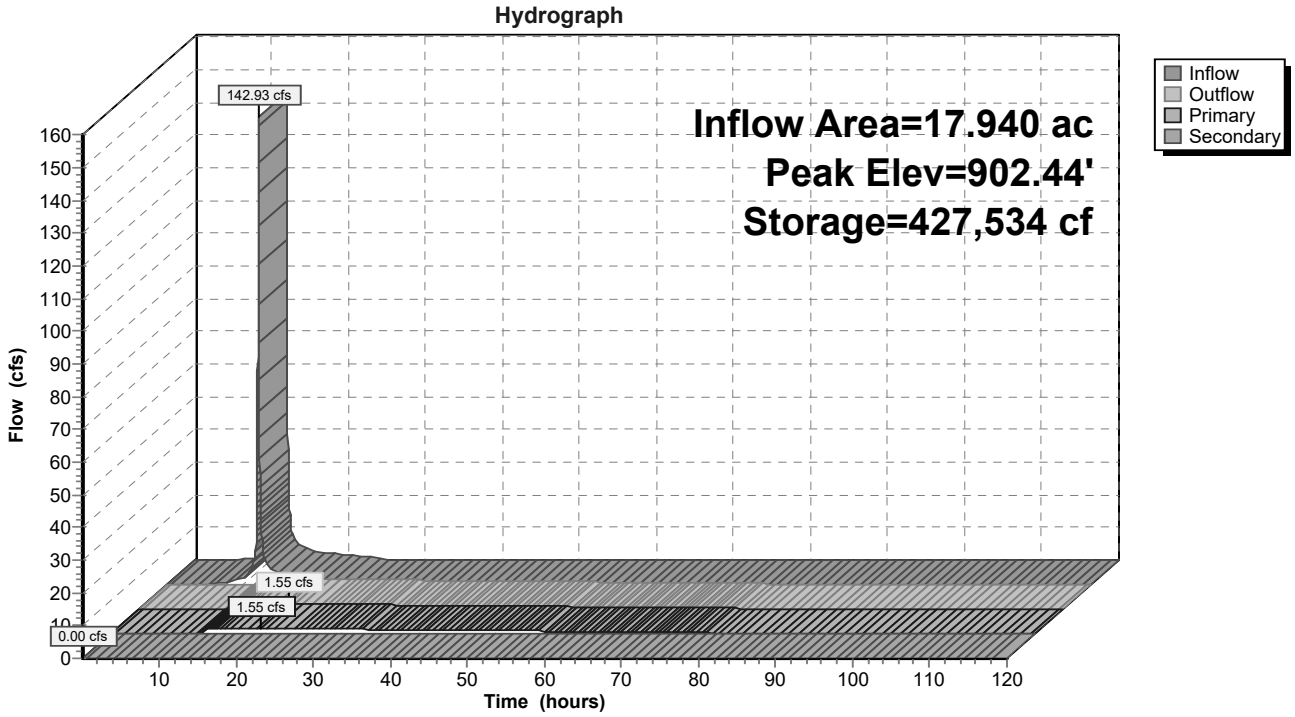
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
894.00	29,616	0	0
895.00	32,756	31,186	31,186
896.00	36,239	34,498	65,684
897.00	40,030	38,135	103,818
898.00	43,903	41,967	145,785
899.00	57,355	50,629	196,414
900.00	62,973	60,164	256,578
901.00	68,725	65,849	322,427
902.00	74,612	71,669	394,095
903.00	80,633	77,623	471,718
904.00	86,790	83,712	555,429

Device	Routing	Invert	Outlet Devices
#1	Primary	899.00'	**24.0" Round RCP_Round 24"** L= 80.0' RCP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 899.00' / 898.00' S= 0.0125 '/' Cc= 0.900 n= 0.011 Concrete pipe, finished, Flow Area= 3.14 sf
#2	Device 1	899.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Secondary	903.00'	**25.0' long x 10.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Primary OutFlow Max=1.55 cfs @ 19.50 hrs HW=902.44' (Free Discharge)
↑—**1=RCP_Round 24"** (Passes 1.55 cfs of 20.85 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 1.55 cfs @ 7.90 fps)

Secondary OutFlow Max=0.00 cfs @ 0.01 hrs HW=899.00' (Free Discharge)
↑—**3=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 500: 500


Hydrograph
Inflow Area=17.940 ac
Peak Elev=902.44'
Storage=427,534 cf
142.93 cfs
1.55 cfs
1.55 cfs
0.00 cfs
Inflow
Outflow
Primary
Secondary
Flow (cfs)
Time (hours)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160

Hydrograph for Pond 500: 500

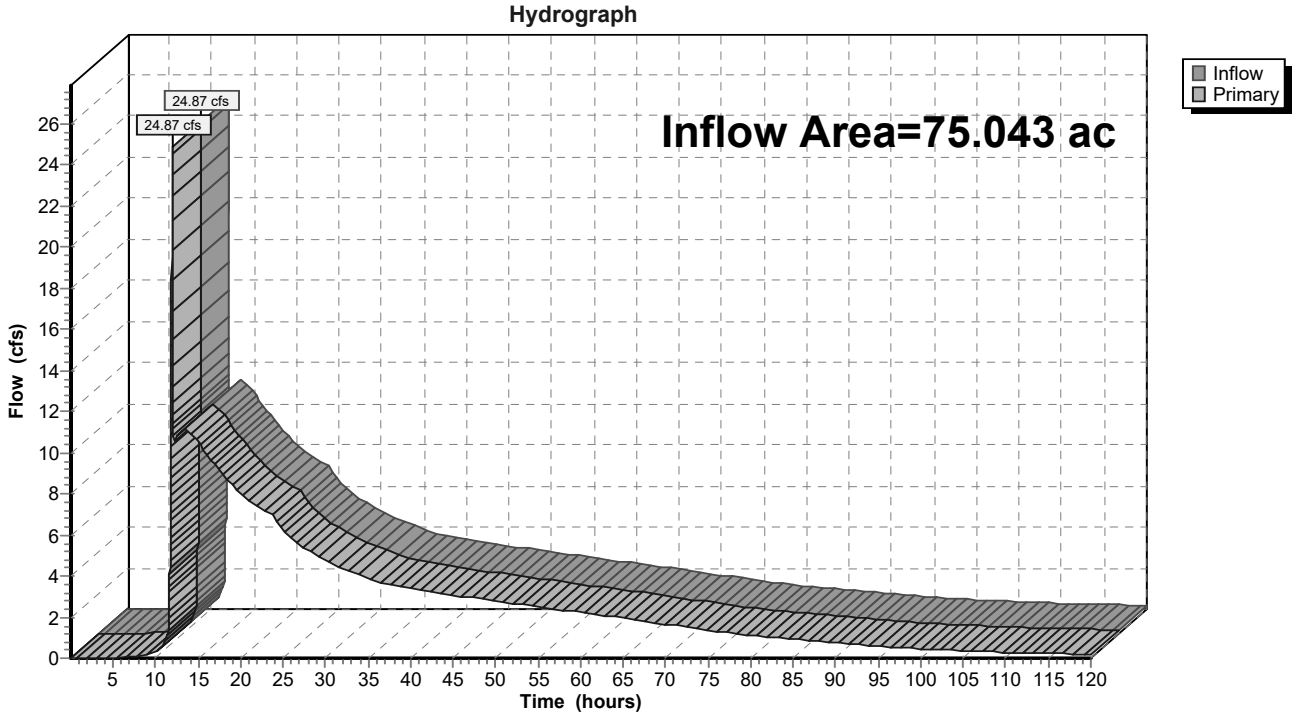
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.01	0.00	196,414	899.00	0.00	0.00	**0.00**
5.01	0.02	196,419	899.00	0.00	0.00	0.00
10.01	**2.17**	210,207	899.24	0.00	0.00	0.00
15.01	**3.23**	**416,835**	**902.30**	**1.51**	**1.51**	0.00
20.01	1.41	**427,416**	**902.44**	**1.55**	**1.55**	0.00
25.01	0.00	418,627	902.32	1.52	1.52	0.00
30.01	0.00	392,278	901.98	1.41	1.41	0.00
35.01	0.00	367,872	901.64	1.30	1.30	0.00
40.01	0.00	345,464	901.33	1.19	1.19	0.00
45.01	0.00	325,106	901.04	1.07	1.07	0.00
50.01	0.00	306,847	900.77	0.96	0.96	0.00
55.01	0.00	290,737	900.53	0.83	0.83	0.00
60.01	0.00	276,822	900.32	0.71	0.71	0.00
65.01	0.00	265,144	900.14	0.59	0.59	0.00
70.01	0.00	255,741	899.99	0.46	0.46	0.00
75.01	0.00	248,688	899.87	0.33	0.33	0.00
80.01	0.00	243,791	899.80	0.22	0.22	0.00
85.01	0.00	240,386	899.74	0.16	0.16	0.00
90.01	0.00	237,973	899.70	0.11	0.11	0.00
95.01	0.00	236,179	899.67	0.09	0.09	0.00
100.01	0.00	234,769	899.65	0.07	0.07	0.00
105.01	0.00	233,660	899.63	0.05	0.05	0.00
110.01	0.00	232,789	899.62	0.04	0.04	0.00
115.01	0.00	232,104	899.60	0.03	0.03	0.00

Summary for Link 1: OFFSITE

Inflow Area = 75.043 ac, 46.89% Impervious, Inflow Depth > 3.95" for Type 2 - 100-Year event
Inflow = 24.87 cfs @ 11.96 hrs, Volume= 24.696 af
Primary = 24.87 cfs @ 11.96 hrs, Volume= 24.696 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-120.00 hrs, dt= 0.01 hrs

Link 1: OFFSITE



Hydrograph for Link 1: OFFSITE

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.01	0.00	**0.00**	0.00
2.01	0.00	0.00	0.00
4.01	0.00	0.00	0.00
6.01	0.03	0.00	0.03
8.01	0.10	0.00	0.10
10.01	**0.30**	0.00	**0.30**
12.01	**21.27**	0.00	**21.27**
14.01	11.03	0.00	11.03
16.01	9.92	0.00	9.92
18.01	8.87	0.00	8.87
20.01	8.01	0.00	8.01
22.01	7.38	0.00	7.38
24.01	6.94	0.00	6.94
26.01	5.83	0.00	5.83
28.01	5.23	0.00	5.23
30.01	4.74	0.00	4.74
32.01	4.39	0.00	4.39
34.01	4.05	0.00	4.05
36.01	3.74	0.00	3.74
38.01	3.53	0.00	3.53
40.01	3.38	0.00	3.38
42.01	3.25	0.00	3.25
44.01	3.13	0.00	3.13
46.01	3.02	0.00	3.02
48.01	2.90	0.00	2.90
50.01	2.79	0.00	2.79
52.01	2.67	0.00	2.67
54.01	2.56	0.00	2.56
56.01	2.45	0.00	2.45
58.01	2.34	0.00	2.34
60.01	2.23	0.00	2.23
62.01	2.12	0.00	2.12
64.01	2.00	0.00	2.00
66.01	1.89	0.00	1.89
68.01	1.77	0.00	1.77
70.01	1.65	0.00	1.65
72.01	1.54	0.00	1.54
74.01	1.43	0.00	1.43
76.01	1.32	0.00	1.32
78.01	1.22	0.00	1.22
80.01	1.12	0.00	1.12
82.01	1.04	0.00	1.04
84.01	0.96	0.00	0.96
86.01	0.88	0.00	0.88
88.01	0.81	0.00	0.81
90.01	0.75	0.00	0.75
92.01	0.68	0.00	0.68
94.01	0.62	0.00	0.62
96.01	0.56	0.00	0.56
98.01	0.51	0.00	0.51
100.01	0.46	0.00	0.46
102.01	0.41	0.00	0.41
104.01	0.38	0.00	0.38
106.01	0.34	0.00	0.34
108.01	0.31	0.00	0.31
110.01	0.28	0.00	0.28
112.01	0.26	0.00	0.26
114.01	0.24	0.00	0.24
116.01	0.22	0.00	0.22
118.01	0.21	0.00	0.21

PRELIMINARY PLAT OF MOHRHUSEN FARM

That part of the Northwest 1/4 of the Southwest 1/4 and the Southwest 1/4 of the Southwest 1/4 and part of the Southeast 1/4 of the Southwest 1/4 of Section Thirty-two (32), Town Nine (9) North, Range Twenty (20) East, Village of Germantown, Washington County, Wisconsin.

OWNER:
CARRIE J RAMOS LIV TR,
KRISTI E LESWING

DEVELOPER:
HOME PATH FINANCIAL, LP
5116 N 126TH ST
BUTLER, WI 53007
Phone: (262) 749-5467

ENGINEER/SURVEYOR:
FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
7044 S. BALLPARK DR. STE 200
FRANKLIN, WI 53132
Phone: (414) 336-7900

HORIZONTAL DATUM:
This survey is referenced to Wisconsin State Plane Coordinate System Grid, South-Zone (NAD83/2011), in which the West line of the Southwest 1/4, Section 32,Township 9 North ,Range 20 East bears North 01°30'51" West.

VERTICAL DATUM:
Vertical Datum is based on North American Vertical Datum of 1988. (NAVD1988).

FLOODPLAIN NOTE:
According to the flood insurance rate map of the County of Washington, Community Panel No. 55131C0358E & 55131C0359D, effective date of November 20, 2013, this site falls in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).

AGENCIES HAVING AUTHORITY OF OBJECT:
- State of Wisconsin, Department of Administration.
- Washington County.
-

APPROVING AUTHORITY:
- Village of Germantown.

DEVELOPMENT SUMMARY:
1. Tax Key Number 323995, 323986 & 323987.
2. Subdivision contains 88.30 Acres.
3. Subdivision contains 159 Lots and 5 Outlots.
4. Proposed Zoning = (PD) Planned Development District.
5. All lots to be served with Sanitary Sewer & Watermain.
6. Public Roads to have Concrete Curb and Gutter, Asphalt Pavement with Storm Sewer.
7. Stormwater Management Facilities are located on Outlot 3 and 4 of this Subdivision. The owners of the residential Lots within this Subdivision shall each be liable for an equal undivided fractional share of the cost to repairs, maintain or restore said Stormwater Management Facilities within this Subdivision. Said repairs, maintenance and restoration shall be performed by the Owners of all Lots within this Subdivision.
8. The Owners of all Lots within this Subdivision shall each own an equal undivided fractional interest in Outlots 1 thru 5 of this Subdivision. Washington County shall not be liable for fees or special charges in the event they become the owner of any Lot or Outlot in the Subdivision by reason of tax delinquency.

SITE DATA SUMMARY

Gross Site Area	88.3 acres	
Gross DU/ Acre	3.1 du/acre	
Total Density	273 Units	
Rowhomes	102	
Paired Ranch Villas	28	
Pathway ltd. Homes	54	
Pathway + Homes	45	
Flagship Homes	44	
Proposed ROW	13.2 Ac.	14.9%
Open Space	28.1 AC	31.8%
Total Net Site Area	47.0 Ac.	
Net DU/ Acre	5.8 du/ac	

LOT DATA

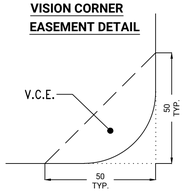
Single Family & Paired Setbacks:	
Front: Single Family & Paired	30'
Front: Row Home	25'
Side: Flagship	12'
Side: Pathway	6'
Side: Paired	6'
Side: At Corner	25'
Rear: Flagship/Pathway	30'
Rear: Paired	25'
Rear: Row Home	20'

Notes
- Street A, B, C, D, E ,G, H, K & L to be dedicated to the Public.
- Access easement note per Doc. No. 377634: (Public access points must be at least 400' from any public access point to C.T.H. "Q", 300' from any private access point to C.T.H. "Q" include a dedication of vision triangles which have a 150' leg, as measured along the centerline of C.T.H. "Q" and a 100' leg as measured along the centerline of intersection public access point and include the restriction of access across said triangles.
- (A) 12' Electric Easement per Doc. 856645

WETLANDS:
Wetlands are delineation by Hey & Associates, Inc conducted October 2024.

VISION CORNER EASEMENT: (V.C.E.)
Corner lots & outlots are herein subject to a Vision Corner Easement in that nothing maybe grown, stored or erected to a height more than two feet above ground surface.

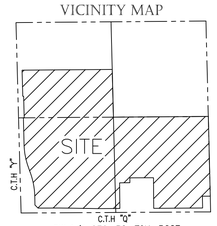
VISION CORNER EASEMENT DETAIL



LEGEND

- INDICATES FOUND IRON PIPE
- SET IRON PIPE
- MONUMENT
- INDICATES SOIL BORING LOCATION
- SIGN
- TRAFFIC STOP LIGHT
- STORM MANHOLE
- INLET SQUARE
- CATCH BASIN ROUND
- SANITARY MANHOLE
- HYDRANT
- WATER VALVE
- TELEPHONE PEDESTAL
- UTILITY/POWER POLE
- ELECTRIC MANHOLE
- GUYWIRE
- ELEC. PEDESTAL
- SANITARY SEWER
- STORM SEWER
- WATER MAIN
- GAS MAIN
- ELECTRIC - BURIED
- OVERHEAD WIRES
- TELEPHONE-BURIED

VICINITY MAP



SW 1/4 SEC. 32, T9N, R20E.

PROPOSED IMPROVEMENTS

- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER MAIN
- PROPOSED FORCED MAIN SEWER
- PROPOSED PAVEMENT EDGE

Curve Table

Curve #	Arc	Radius	Delta	Chord	CHB	TAN IN	TAN OUT
C1	367.38	1058.00	019° 53' 44"	365.54	N10°17'44"W	N00° 20' 52"W	N20°14'36"W
C2	307.93	942.00	018° 43' 45"	306.56	N10°52'43"W	N01° 30' 51"W	N20°14'36"W

I hereby certify that this preliminary plat is a correct representation of all existing land divisions and features and that I have fully complied with the provisions of the subdivision and platting code of the Village of GermanTown.

Date of Plat or Map:
March 20, 2025

WISCONSIN — ANDREW J. MIAZGA — S-2826 — MUKWONAGO WI — LAND SURVEYOR

Andrew J. Miazga, PLS (S-2826)

Field Date: March 5, 2025

VILLAGE OF GERMANTOWN

MOHRHUSEN FARM

SCALE 0 120 240

PROJECT ID: 0025H025.00

DATE:	MAR 20, 2025
PREPARED BY:	FXA
CHECKED BY:	AJM

Foth

SHEET 1 OF 1