Gabriel E. Senor, P.C.
Engineers Planners Surveyors

90 N. Central Ave.
Hartsdale, NY 10530
Tel. (914) 422-0070
Fax (914) 422-3009
info@gesenor.com

LETTER OF TRANSMITTAL

DATE: May 22, 2023

TO: Joseline Huerta
Planning Department
Town of North Castle

RE: 1 Guion Lane
Section 95.01, Block 2, Lot 10.3
Site Plan Submission to Planning Board
Owner: Bedford Single Family LLC

Please find enclosed our submission to the Planning Board for site plan approval for construction of a new single-family residence at 1 Guion Lane.

This property is identified as Lot 4-3 on the "Subdivision of Property for Menyhert Kalmancy and Anna Kalmancy" approved by the Planning Board and filed in the County Clerk's office on May 16, 2002 as Map No. 26976. A copy of the map is enclosed.

There was prior site plan approval for this property January 24, 2022, but there is now a new owner and a new building layout. The septic location and bedroom count have not changed. The septic approval was renewed prior to the purchase. The proposed driveway easement has now been filed in the Westchester County Clerk's Office and a copy is enclosed.

Stephen Anderson
Project Manager
914-422-0070
steve@gesenor.com; info@gesenor.com

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Adam R. Kaufman, AICP
Director of Planning

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Application for Site Development Plan Approval

Application Name

1 GUION LANE 95.01-2-10.3

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Important General Information

- Prior to submitting an application, the "Notice to Applicants" should be reviewed.

- To appear before the Planning Board, all required application materials shall be submitted not later than **12:00 P.M., Monday, fourteen (14) days** prior to the date of the Planning Board meeting at which the application is scheduled to be heard or as otherwise noted by the Planning Board Secretary. Continuing Business can be submitted 12 days prior to the Next Planning Board meeting by the close of business. Except where noted.
  If all required application materials, including the pertinent application fee and escrow monies are not submitted by that deadline, the application shall be automatically removed from the agenda.
  At the discretion of the Planning Board Chairman, the application may be rescheduled, if appropriate, for the next available Planning Board meeting or the application may be removed from future agendas altogether. Without prior authorization from the Planning Board, application submissions shall not be accepted at Planning Board meetings.

- At the time of submission, all required application materials shall be submitted. **Piecemeal** submissions **shall not** be accepted. Substitution of previously submitted materials shall not be permitted.

- All submissions shall be dated, with revision dates identified on new submissions.

- All submissions shall be accompanied by a cover letter describing the project and/or any changes as compared to previous submissions.

- To be considered complete for Planning Board hearing purposes, an application package shall contain the information identified in Parts IV and V of this application form.

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AT THE TIME OF SUBMISSION TO THE PLANNING DEPARTMENT PLEASE MAKE SURE THE FOLLOWING IS PROVIDED

- ✓ SUBMISSION OF A SINGLE PDF FILE (PLANS, APPLICATION FORM, OTHER PAPERWORK) ON A DISK, THUMBDRIVE OR EMAIL

- ✓ COVER LETTER DESCRIBING THE PROJECT OR CHANGES TO THE PROJECT

- ✓ ALL PLANS ARE SIGNED AND SEALED BY A LICENSED NYS PROFESSIONAL

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NOTICE TO APPLICANTS

In the Town of North Castle, the Planning Board is responsible for the review and approval of all applications concerning site plans, subdivisions and lot line changes; some applications concerning special use permits, wetlands permits and tree removal permits; and the environmental review of those applications over which it has jurisdiction. The Planning Board may also have an advisory role in connection with some applications before the Town Board, such as those involving other categories of special use permits and zoning amendments.

The Planning Board is composed of five volunteer members – all residents of North Castle – who are appointed by the Town Board for five-year terms. As part of the review of some applications, the Planning Board is assisted on an as-needed basis by other lay boards of the Town, such as the Conservation Board (CB), the Zoning Board of Appeals (ZBA), the Open Space Committee and the Architectural Review Board (ARB). As part of the review of most applications, the Planning Board is also assisted by the Director of Planning, the Town Engineer, the Town Attorney and other special consultants when required.

FEES:

If you submit an application for Planning Board review, you will be required to reimburse the Town for the cost of professional review services, including legal and engineering services, incurred in connection with the review of your application. The charges for professional planning review services have been $120/hour. If other types of professional consultant review services are required, those charges will be in accord with fees usually charged for such services and pursuant to a contractual agreement between the Town and such professional.

At the time of submission of an application, the Planning Board will require the establishment of an escrow account from which withdrawals shall be made to reimburse the Town for the cost of consultant fees and professional staff services.

ESCROW ACCOUNT:

Escrow Accounts are established for each application. Monies will be deducted from the account for professional review services rendered. Monthly escrow disbursement summaries will be mailed for your reference regarding your project. When the balance in such escrow account is reduced to one-third (1/3) of its initial amount, a letter will be mailed to the applicant and the applicant shall deposit additional funds into such account to restore its balance to the amount of the initial deposit. Additional information on these requirements is provided in the North Castle Town Code (see Sections 355-79B and 275-36.C).

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PROCEDURE:

Prior to submitting an application to the Planning Board for review and approval, prospective applicants should schedule an appointment with the Planning Board Secretary at (914) 273-3542 for a consultation with the Town Planner and the Town Engineer. When the appointment is made, a verbal description of the proposal should be provided to the Planning Board Secretary. The Town of North Castle is providing the services of the Director of Planning and the Town Engineer for ***initial*** consultation at no cost to the applicant so that it is possible to conduct the application review as efficiently as possible for the benefit of the applicant as well as the Planning Board.

After meeting with the Town Planner and Town Engineer, prospective applicants should prepare one complete set of application documents and plans. This set will be reviewed for completeness by the Town Planner. If determined to be incomplete, the Planning Department will submit a checklist indicating which items have not been adequately addressed. If determined to be complete, the checklist will be initialed and the Applicant should submit the remainder of the required application packages.

Once the checklist has been initialed and all application packages have been submitted, the Planning Board Secretary will schedule the application for the first available opening on the Planning Board's meeting agenda. However, if the required application material packages, including the pertinent application fee are not received at the Planning Board office by 12:00 PM, Monday, 14 days prior to the date of the Planning Board meeting at which you are scheduled to appear (or otherwise scheduled by the Planning Board Secretary), your application will be automatically removed from the agenda. At the discretion of the Planning Board Chairman, your application may be rescheduled, if appropriate, for the next available Planning Board meeting or the application may be removed from future agendas altogether. Additional requirements pertinent to each type of application are provided on the individual application forms, which you should carefully review prior to submitting your application.

When an application is deemed complete and submitted for review, it will be forwarded to the Planning Board Members and its professional advisors in advance of the meeting to allow adequate time for review, preparation of written reports and site inspections as necessary. Your application may also be forwarded to other boards and staff of the Town as well as to agencies outside of the Town, if required. Compliance with State Environmental Quality Review (SEQR) procedures is also required as part of the processing of all applications.

At your first appearance before the Planning Board, the Applicant will describe the project and the Planning Board will discuss any preliminary issues. The Planning Board discussion may be continued at future meetings, or if the Planning Board review has progressed sufficiently, the Application may be scheduled for a public hearing (if one is required) The public hearing may occur at a single Planning Board meeting, or it may be adjourned and continued at another Planning Board meeting. Because the nature and complexity of each application varies

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considerably, it is not possible to predict in advance the length of time needed to secure Planning Board approval. There are certain steps that you can take, however, to expedite the review process. These include, but are not limited to, the following:

- Be thoroughly familiar with the requirements pertinent to your application. Carefully review relevant provisions of the North Castle Town Code and the application form for your particular type of application. Be sure to check on what other types of approvals may be required in addition to that of the Planning Board. Approvals by other Town boards or departments as well as agencies outside of the Town may be required before you will be allowed to proceed with your project.

- Make sure that your application materials are accurately prepared and contain all required information. The information that we initially request is required, so make sure that your submission is complete. If supplementary information is requested as the review process continues, make sure that it is submitted in a timely fashion so the Planning Board can continue to move your application along.

- Follow up to make sure that your application materials are being submitted on time, or deliver them to the Planning office yourself.

- Attend the Planning Board meeting at which your application will be discussed and be on time for the meeting. If you cannot appear personally, make sure that your representative will be there and is thoroughly familiar with your application.

If the Application is approved by the Planning Board, a resolution of approval will be adopted by the Planning Board. It is the Applicant's responsibility to address any and all conditions of approval. Permits from the Building Department cannot be issued until all conditions have been addressed and the plans have been signed by the Planning Board Chair and the Town Engineer.

ON LINE AGENDAS & PLANNING DEPARTMENT MEMORANDA CAN BE REVIEWED AT

WWW.NORTHCASTLENY.COM

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INFORMATION REGARDING PUBLIC HEARINGS

1. The North Castle Assessor's Office shall prepare a list of neighbors to be notified for the neighbor notifications and public hearings - **A minimum of one week's notice is required** . The fee is $50.00 which includes the list of neighbors and two sets of labels for mailing. The Assessor's Office may be reached Monday – Friday from 8:30 a.m.– 4:30 p.m. at 273-3324. You may also e-mail your request to assessor@northcastleny.com

When requesting your list please reference the list of application types below so that you can tell the Assessor's office how many feet on all sides of the property to create the list for.

Subdivisions - All lots zoned R-10, R-5 and R-2F shall notice all neighbors within 200 feet from all sides of their property. All other zoning districts shall notice neighbors within 500 feet from all sides of their property. Public hearing notice must be published in the newspaper.

Special Use Permit for Structures over 800 sq ft. & Accessory Apartment - All Zoning Districts shall notice all neighbors within 250 feet from all sides of their property. Public hearing notice must be published in the newspaper.

Site Plan, Non Residential - All Zoning Districts shall notice all neighbors within 250 feet from all sides of their property. Public hearing notice must be published in the newspaper.

Site Plan, Residential/ Neighbor Notification – All zoning districts R-3/4A or smaller shall notice all neighbors within 250' from all sides of their property. All zoning districts zoned R-1A or larger shall notice all neighbors within 500' from all sides of the property. No public hearing required, no publication in the newspaper required.

Wetlands Permit - All Zoning Districts shall notice all abutting property owners. Public hearing notice must be published in the newspaper.

2. The Director of Planning will prepare a Public Notice. The applicant and or professional will review, sign, date and return to the Planning Department Secretary. If there are any changes necessary, please edit and return for corrections. The corrections will be made and emailed back to the applicant who will forward it to the Journal Newspaper, when applicable.

If notification to the newspaper is not required, please continue to #3.

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You may email your public notice to legals@lohud.com. Please request an affidavit of publication which must be submitted to the Planning Board secretary prior to the public hearing. The Journal News requires three days prior notice before 12 noon, not counting weekends and holidays, for ad placement. Make sure the notice placement of the ad in the Greater Westchester Area. This notice cannot be published any sooner than 20 days prior to the meeting and must be published no less than 10 days prior to the meeting.

If you have any questions regarding your publication you may call 888-516-9220:
Email Address: legals@lohud.com

It is suggested that you purchase the newspaper for your records the day the notice is published.

3. Send out the Public Hearing Notice/ Neighbor Notification by First Class Mail. Notice shall be mailed by the applicant in official envelopes provided by the North Castle Planning Department; the list of noticed neighbors will be prepared by the Assessor's Office. This must be sent out no less than 10 days prior to the meeting and no more than 20 days prior to the meeting date. A Certificate of Mailing (PS Form 3817 or 3877) shall be filled out and post marked by the Post Office on the day of mailing. Neighbor Notifications – no publication in the newspaper required.

4. The Friday before the meeting or no later than 12:00 p.m. the day of the meeting the following **must** be submitted.

- List of Neighbors prepared by the Assessor's Office
- Certificate of Mailing – PS form 3817 or 3877 post marked by the US Post Office
- Affidavit of publication from the Newspaper (only if published in the newspaper)

UNITED STATES POSTAL SERVICE®

Firm Mailing Book For Accountable Mail

Name and Address of Sender

Check type of mail or service

- ☐ Adult Signature Required
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery (COD)
- ☐ Insured Mail
- ☐ Priority Mail
- ☐ Priority Mail Express
- ☐ Registered Mail
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

Affix Stamp Here
(if issued as an international certificate of mailing or for additional copies of this receipt).
Postmark with Date of Receipt.

	USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
1.															
2.															
3.															
4.															
5.															
6.															
7.															
8.															

Handling Charge - if Registered and over $50,000 in value
Adult Signature Required
Adult Signature Restricted Delivery
Restricted Delivery
Return Receipt
Signature Confirmation
Signature Confirmation Restricted Delivery
Special Handling

Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster, Per *(Name of receiving employee)*

Complete in Ink

Privacy Notice: For more information on USPS privacy policies, visit *usps.com/privacypolicy.*

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APPLICATIONS REQUIRING PLANNING BOARD APPROVAL
SCHEDULE OF APPLICATION FEES

Type of Application	Application Fee
Site Development Plan	$200.00
Each proposed Parking Space	$10
Special Use Permit (each)	$200 (each)
Preliminary Subdivision Plat	$300 1st Lot $200 (each additional lot)
Final Subdivision Plat	$250 1st Lot $100 (each additional lot)
Tree Removal Permit	$75
Wetlands Permit	$50 (each)
Short Environmental Assessment Form	$50
Long Environmental Assessment Form	$100
Recreation Fee	$10,000 Each Additional Lot
Discussion Fee	$200.00

Prior to submission of a sketch or preliminary subdivision Plat, an applicant or an applicant's representative wishes to discuss a subdivision proposal to the Planning Board, a discussion fee of $200.00 shall be submitted for each informal appearance before the board.

Any amendment to previously approved applications requires new application forms and Fes

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PLANNING BOARD SCHEDULE OF ESCROW ACCOUNT DEPOSITS

Type of Application	Amount of Initial Escrow Account Deposit*
Concept Study	$500.00
Site Plan Waiver for Change of Use	$500.00
Site Development Plan for:	
Multifamily Developments	$3,000.00 plus $100.00 per proposed dwelling unit
Commercial Developments	$3,000.00 plus $50.00 for each required parking space
1 or 2 Family Projects	$2,000.00
Special Use Permit	$2,000.00 plus $50.00 for each required parking space
Subdivision:	
Lot Line Change resulting in no new lots	$1,500.00
All Others	$3,000.00 plus $200.00 per proposed new lot in excess of two (2)
Preparation or Review of Environmental Impact Statement	$15,000.00

* If a proposed action involves multiple approvals, a single escrow account will be established. The total amount of the initial deposit shall be the sum of the individual amounts indicated. When the balance in such escrow account is reduced to one-third (1/3) of its initial amount, the applicant shall deposit additional funds into such account to restore its balance to the amount of the initial deposit.

5/18/23

Applicant Signature Date:

I. IDENTIFICATION OF PROPERTY OWNER, APPLICANT AND PROFESSIONAL REPRESENTATIVES

Name of Property Owner: Bedford Single Family LLC

Mailing Address: 373 Saw Mill River Rd. Millwood NY 10546

Telephone: 845-743-5541 Fax: _____ e-mail 7156881@gmail.com

Name of Applicant (if different): MAP Architecture, Michael Piccirillo

Address of Applicant: 345 Kear Street Suite 203 Yorktown Heights NY 10598

Telephone: 914-368-9838 Fax: _____ e-mail michael@mpiccirilloarchitect.com

Interest of Applicant, if other than Property Owner:

Architect

Is the Applicant (if different from the property owner) a Contract Vendee?

Yes ☐ No ☑

If yes, please submit affidavit sating such. If no, application cannot be reviewed by Planning Board

Name of Professional Preparing Site Plan:
Eliot Senor, P.E., L.S., Gabriel E. Senor, P.C.

Address: 90 N. Central Ave., Hartsdale, NY 10530

Telephone: 914-422-0070 Fax: _____ e-mail info@gesenor.com

Name of Other Professional: MAP Architecture, Michael Piccirillo

Address: 345 Kear Street Suite 203 Yorktown Heights NY 10598

Telephone: 914-368-9838 Fax: _____ e-mail michael@mpiccirilloarchitect.com

Name of Attorney (if any): _____

Address: _____

Telephone: _____ Fax: _____ e-mail _____

Applicant Acknowledgement

By making this application, the undersigned Applicant agrees to permit Town officials and their designated representatives to conduct on-site inspections in connection with the review of this application.

The Applicant also agrees to pay all expenses for the cost of professional review services required for this application.

It is further acknowledged by the Applicant that all bills for the professional review services shall be mailed to the Applicant, unless the Town is notified in writing by the Applicant at the time of initial submission of the application that such mailings should be sent to a designated representative instead.

Signature of Applicant: _____ Date: 5/18/23

Signature of Property Owner: _____ Date: 05.18.2023

MUST HAVE BOTH SIGNATURES

II. IDENTIFICATION OF SUBJECT PROPERTY

Street Address: 1 Guion Ln.

Location (in relation to nearest intersecting street):

580 feet (north, south, east or west) of South of Brett Ln

Abutting Street(s): Gene Curry Dr.

Tax Map Designation (NEW): Section 95.01 Block 2 Lot 10.3

Tax Map Designation (OLD): Section 1 Block 2 Lot 4.3

Zoning District: R-2A Total Land Area 2.88 acre

Land Area in North Castle Only (if different) N/A

Fire District(s) Banksville School District(s) Byram Hills Central

Is any portion of subject property abutting or located within five hundred (500) feet of the following:

The boundary of any city, town or village?
No ☐ Yes (adjacent) ☐ Yes (within 500 feet) ☑
If yes, please identify name(s): Town of Bedford

The boundary of any existing or proposed County or State park or any other recreation area?
No ☑ Yes (adjacent) ☐ Yes (within 500 feet) ☐

The right-of-way of any existing or proposed County or State parkway, thruway, expressway, road or highway?
No ☑ Yes (adjacent) ☐ Yes (within 500 feet) ☐

The existing or proposed right-of-way of any stream or drainage channel owned by the County or for which the County has established channel lines?
No ☑ Yes (adjacent) ☐ Yes (within 500 feet) ☐

The existing or proposed boundary of any county or State owned land on which a public building or institution is situated?
No ☑ Yes (adjacent) ☐ Yes (within 500 feet) ◯

The boundary of a farm operation located in an agricultural district?
No ☑ Yes (adjacent) ☐ Yes (within 500 feet) ☐

Does the Property Owner or Applicant have an interest in any abutting property?
No ☑ Yes _____

If yes, please identify the tax map designation of that property:

N/A

III. DESCRIPTION OF PROPOSED DEVELOPMENT

Proposed Use: Single Family Residential

Gross Floor Area: Existing Vacant S.F. Proposed 8,416 S.F.

Proposed Floor Area Breakdown:

Retail N/A S.F.; Office N/A S.F.;

Industrial N/A S.F.; Institutional N/A S.F.;

Other Nonresidential N/A S.F.; Residential 8,416 S.F.;

Number of Dwelling Units: 1

Number of Parking Spaces: Existing 0 Required 2 Proposed 2

Number of Loading Spaces: Existing N/A Required 0 Proposed 0

Earthwork Balance: Cut 88 C.Y. Fill 385 C.Y.

Will Development on the subject property involve any of the following:

Areas of special flood hazard? No ☑ Yes ☐
(If yes, application for a Development Permit pursuant to Chapter 177 of the North Castle Town Code may also be required)

Trees with a diameter at breast height (DBH) of 8" or greater?
No ☐ Yes ☑
(If yes, application for a Tree Removal Permit pursuant to Chapter 308 of the North Castle Town Code may also be required.)

Town-regulated wetlands? No ☑ Yes ☐
(If yes, application for a Town Wetlands Permit pursuant to Chapter 340 of the North Castle Town Code may also be required.)

State-regulated wetlands? No ☑ Yes ☐
(If yes, application for a State Wetlands Permit may also be required.)

IV. SUBMISSION REQUIREMENTS

The site development plan application package shall include all materials submitted in support of the application, including but not limited to the application form, plans, reports, letters and SEQR Environmental Assessment Form. **Submission of the following shall be required:**

- One (1) PDF set of the site development plan application package in a single PDF file .

- A check for the required application fee and a check for the required Escrow Account, both made payable to "Town of North Castle" in the amount specified on the "Schedule of Application Fees."

(continued next page)

V. INFORMATION TO BE INCLUDED ON SITE DEVELOPMENT PLAN

The following checklist is provided to enable the Applicant to determine if he/she has provided enough information on the site development plan for the Planning Board to review his/her proposal. Applicants are advised to review ARTICLE VIII, Site Development Plan of the North Castle Town Code for a complete enumeration of pertinent requirements and standards prior to making application for site development plan approval.

The application for site development plan approval will not be accepted for Planning Board review unless all items identified below are supplied and **so indicated with a check mark in the blank line provided.** If a particular item is not relevant to the subject property or the development proposal, **the letters "NA" should be entered instead**. In addition, the project will not be scheduled on a Planning Board agenda until the Applicant receives an initialed "site plan checklist" from the Planning Department.

The information to be included on a site development plan shall include:

Legal Data:

☑ Name of the application or other identifying title.

☑ Name and address of the Property Owner and the Applicant, (if different).

☑ Name, address and telephone number of the architect, engineer or other legally qualified professional who prepared the plan.

☑ Names and locations of all owners of record of properties abutting and directly across any and all adjoining streets from the subject property, including the tax map designation of the subject property and abutting and adjoining properties, as shown on the latest tax records.

☑ Existing zoning, fire, school, special district and municipal boundaries.

☑ Size of the property to be developed, as well as property boundaries showing dimensions and bearings as determined by a current survey; dimensions of yards along all property lines; name and width of existing streets; and lines of existing lots, reservations, easements and areas dedicated to public use.

N/A Reference to the location and conditions of any covenants, easements or deed restrictions that cover all or any part of the property, as well as identification of the document where such covenants, easements or deed restrictions are legally established.

☑ Schedule of minimum zoning requirements, as well as the plan's proposed compliance with those requirements, including lot area, frontage, lot width, lot depth, lot coverage, yards, off-street parking, off-street loading and other pertinent requirements.

☑ Locator map, at a convenient scale, showing the Applicant's entire property in relation to surrounding properties, streets, etc., within five hundred (500) feet of the site.

☑ North arrow, written and graphic scales, and the date of the original plan and all revisions, with notation identifying the revisions.

☑ A signature block for Planning Board endorsement of approval.

Existing Conditions Data:

N/A Location of existing use and design of buildings, identifying first floor elevation, and other structures.

N/A Location of existing parking and truck loading areas, with access and egress drives thereto.

N/A Location of existing facilities for water supply, sanitary sewage disposal, storm water drainage, and gas and electric service, with pipe sizes, grades, rim and inverts, direction of flow, etc. indicated.

N/A Location of all other existing site improvements, including pavement, walks, curbing, retaining walls and fences.

N/A Location, size and design of existing signs.

N/A Location, type, direction, power and time of use of existing outdoor lighting.

N/A Location of existing outdoor storage, if any.

☑ Existing topographical contours with a vertical interval of two (2) feet or less.

☑ Location of existing floodplains, wetlands, slopes of 15% or greater, wooded areas, landscaped areas, single trees with a DBH of 8" or greater, rock outcrops, stone walls and any other significant existing natural or cultural features.

Proposed Development Data:

N/A Existing Lot No easements on our lot ☐ Proposed location of lots, streets, and public areas, and property to be affected by proposed easements, deed restrictions and covenants.

☑ Proposed location, use and architectural design of all buildings, including proposed floor elevations and the proposed division of buildings into units of separate occupancy.

☑ Proposed means of vehicular and pedestrian access to and egress from the site onto adjacent streets.

☑ Proposed sight distance at all points of vehicular access.

N/A Proposed number of employees for which buildings are designed

N/A Proposed streets, with profiles indicating grading and cross-sections showing the width of the roadway; the location and width of sidewalks; and the location and size of utility lines.

N/A Proposed location and design of any pedestrian circulation on the site and off-street parking and loading areas, including handicapped parking and ramps, and including details of construction, surface materials, pavement markings and directional signage.

☑ Proposed location and design of facilities for water supply, sanitary sewage disposal, storm water drainage, and gas and electric service, with pipe sizes, grades, rim and inverts, direction of flow, etc. indicated.

☑ Proposed location of all structures and other uses of land, such as walks, retaining walls, fences, designated open space and/or recreation areas and including details of design and construction.

N/A Location, size and design of all proposed signs.

N/A Location, type, direction, power and time of use of proposed outdoor lighting.

N/A Location and design of proposed outdoor garbage enclosure.

N/A Location of proposed outdoor storage, if any.

N/A ☐ Location of proposed landscaping and buffer screening areas, including the type (scientific and common names), size and amount of plantings. Existing row of trees at northeast property currently screens the only adjacent house

N/A Type of power to be used for any manufacturing

N/A Type of wastes or by-products to be produced and disposal method

N/A In multi-family districts, floor plans, elevations and cross sections

N/A The proposed location, size, design and use of all temporary structures and storage areas to be used during the course of construction.

☑ Proposed grade elevations, clearly indicating how such grades will meet existing grades of adjacent properties or the street.

☑ Proposed soil erosion and sedimentation control measures.

N/A For all proposed site development plans containing land within an area of special flood hazard, the data required to ensure compliance with Chapter 177 of the North Castle Town Code.

☑ For all proposed site development plans involving clearing or removal of trees with a DBH of 8" or greater, the data required to ensure compliance with Chapter 308 of the North Castle Town Code.

N/A For all proposed site development plans involving disturbance to Town-regulated wetlands, the data required to ensure compliance with Chapter 340 of the North Castle Town Code.

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Name of Action or Project:
1 Guion Lane

Project Location (describe, and attach a location map):
1 Guion Lane, Town of North Castle Section 95.01 Block 2 Lot 10.3

Brief Description of Proposed Action:
Construction of new single family residence on current vacant lot

Name of Applicant or Sponsor:	Telephone: 914-368-9839
MAP Architecture, Michael Piccirillo	E-Mail: michael@mpiccirilloarchitect.com

Address:
345 Kear St., Suite 203

City/PO:	State:	Zip Code:
Yorktown Heights	NY	10598

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: Town of North Castle Planning Board Approval, Building Permit, Westchester County Health Dept. approval	☐	☑

3.a. Total acreage of the site of the proposed action? 2.88 acres
b. Total acreage to be physically disturbed? 1.1 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 2.88 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: Well	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: OWTS	☑	☐

	NO	YES
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☐	☑

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional
☐ Wetland ☐ Urban ☑ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☑	☐

	NO	YES
16. Is the project site located in the 100 year flood plain?	☑	☐

	NO	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?		
If Yes,		
a. Will storm water discharges flow to adjacent properties? ☐ NO ☐ YES	☑	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?		
If Yes, briefly describe: ☐ NO ☐ YES		
_____		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	☑	☐

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

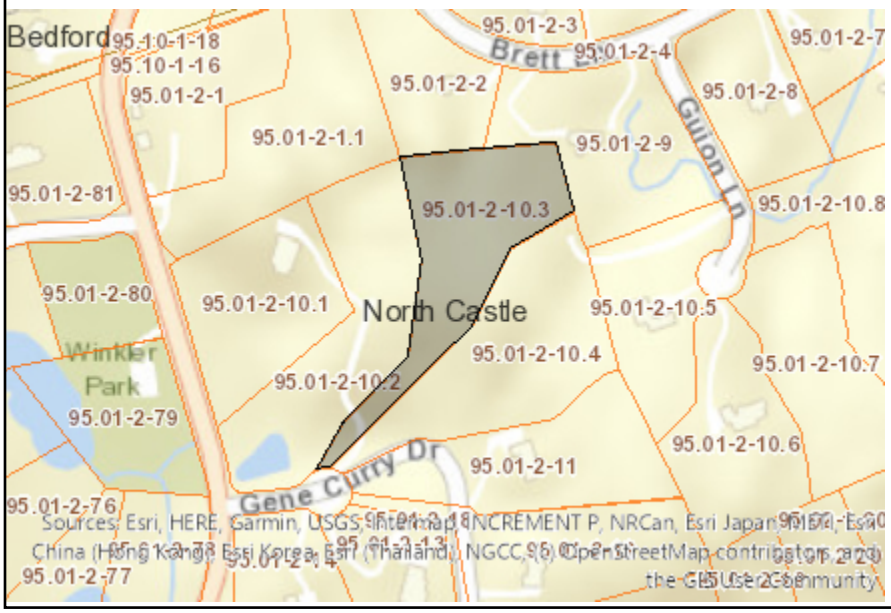
Applicant/sponsor name: _____ Date: 5/22/23

Signature: _____

PRINT FORM

EAF Mapper Summary Report

Monday, May 22, 2023 10:39 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

TOWN OF NORTH CASTLE
WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

PLANNING DEPARTMENT
Adam R. Kaufman, AICP
Director of Planning

January 29, 2019
Telephone: (914) 273-3542
Fax: (914) 273-3554
www.northcastleny.com

FLOOR AREA CALCULATIONS WORKSHEET

Application Name or Identifying Title: 1 GUION LANE Date: 5/18/23

Tax Map Designation or Proposed Lot No.: 95.01-2-10.3

Floor Area

1. Total Lot Area (Net Lot Area for Lots Created After 12/13/06): 125,644 SF

2. **Maximum** permitted floor area (per Section 355-26.B(4)): 11,662

3. Amount of floor area contained within first floor:
_ 0 existing + 3441 proposed = _ 3,441

4. Amount of floor area contained within second floor:
_ 0 existing + 3770 proposed = _ 3,770

5. Amount of floor area contained within garage:
_ 0 existing + 1314 proposed = _ 1,314

6. Amount of floor area contained within porches capable of being enclosed:
_ 0 existing + 0 proposed = _ 0

7. Amount of floor area contained within basement (if applicable – see definition):
_ _____ existing + NA proposed = _ 0

8. Amount of floor area contained within attic (if applicable – see definition):
_ _____ existing + NA proposed = _ 0

9. Amount of floor area contained within all accessory buildings:
_ 0 existing + 0 proposed = _ 0

10. Proposed **floor area:** Total of Lines 3 – 9 = _ 8,525

If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

5/18/23
Date

TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

PLANNING DEPARTMENT
Adam R. Kaufman, AICP
Director of Planning

Telephone: (914) 273-3542
Fax: (914) 273-3554
www.northcastleny.com

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Application Name or Identifying Title: MAP Architecture / 1 Guion Lane Date: 5/15/2023

Tax Map Designation or Proposed Lot No.: 95.01-2-10.3

Gross Lot Coverage

1.	Total lot Area (Net Lot Area for Lots Created After 12/13/06):	125,645
2.	**Maximum** permitted gross land coverage (per Section 355-26.C(1)(a)):	16,159
3.	**BONUS** maximum gross land cover (per Section 355-26.C(1)(b)):	
	Distance principal home is beyond minimum front yard setback 17 x 10 =	170
4.	**TOTAL Maximum Permitted gross land coverage** = Sum of lines 2 and 3	16,329
5.	Amount of lot area covered by **principal building:** _____ existing + 4723 proposed =	4,723
6.	Amount of lot area covered by **accessory buildings:** _____ existing + 0 proposed =	0
7.	Amount of lot area covered by **decks:** _____ existing + 0 proposed =	0
8.	Amount of lot area covered by **porches:** _____ existing + 705 proposed =	705
9.	Amount of lot area covered by **driveway, parking areas and walkways:** _____ existing + 2562 proposed =	2,562
10.	Amount of lot area covered by **terraces:** _____ existing + 2452 proposed =	2,452
11.	Amount of lot area covered by **tennis court, pool and mechanical equip:** _____ existing + 800 proposed =	800
12.	Amount of lot area covered by **all other structures:** _____ existing + 0 proposed =	0
13.	Proposed **gross land coverage:** Total of Lines 5 – 12 =	11,242

If Line 13 is less than or equal to Line 4 your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's maximum gross land coverage regulations.

Signature and Seal of Professional Preparing Worksheet

STATE OF NEW YORK ELIOT SENOR NO. 049822 LICENSED LAND SURVEYOR

5/22/23
Date

The Office of the Westchester County Clerk: This page is part of the instrument; the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.

630743212DED004S

Westchester County Recording & Endorsement Page

Submitter Information

Name:	Bravo Title Agency LLC	Phone:	(718) 550-0606
Address 1:	3063 Brighton 8th St Ste 4M	Fax:	(555) 555-5555
Address 2:		Email:	info@bravotitleagency.com
City/State/Zip:	Brooklyn NY 11235	Reference for Submitter:	6250396-Bravo Title Agency LLC

Document Details

Control Number: **630743212** Document Type: **Deed (DED)**

Package ID: 2023040400194001000 Document Page Count: **3** Total Page Count: **4**

Parties

☐ Additional Parties on Continuation page

	1st PARTY		2nd PARTY	
1:	AMALGAMATED CONSTRUCTION LTD	- Other	BEDFORD SINGLE FAMILY LLC	- Other
2:				

Property

☐ Additional Properties on Continuation page

Street Address: 1 GUION LANE Tax Designation: 95.01-2-10.3

City/Town: NORTH CASTLE Village:

Cross- References

☐ Additional Cross-Refs on Continuation page

1: 2: 3: 4:

Supporting Documents

1: RP-5217 2: TP-584

Recording Fees

Statutory Recording Fee:	$40.00
Page Fee:	$20.00
Cross-Reference Fee:	$0.00
Mortgage Affidavit Filing Fee:	$0.00
RP-5217 Filing Fee:	$250.00
TP-584 Filing Fee:	$5.00
RPL 291 Notice Fee:	$10.00
Total Recording Fees Paid:	**$325.00**

Transfer Taxes

Consideration:	$600,000.00
Transfer Tax:	$2,400.00
Mansion Tax:	$0.00
Transfer Tax Number:	10547

Mortgage Taxes

Document Date:

Mortgage Amount:

Basic:	$0.00
Westchester:	$0.00
Additional:	$0.00
MTA:	$0.00
Special:	$0.00
Yonkers:	$0.00
Total Mortgage Tax:	**$0.00**

Dwelling Type: Exempt: ☐

Serial #:

RECORDED IN THE OFFICE OF THE WESTCHESTER COUNTY CLERK

Recorded: 04/05/2023 at 11:57 AM

Control Number: **630743212**

Witness my hand and official seal

Timothy C.Idoni
Westchester County Clerk

Record and Return To

☐ Pick-up at County Clerk's office

Steven Yuniver, Esq.
710 Avenue U

Brooklyn, NY 11223

— Bargain and Sale Deed, with Covenant against Grantor's Acts — Individual or Corporation (Single Sheet)

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the 15th day of March, in the year 2023 and delivered on 03/17/2023

BETWEEN
AMALGAMATED CONSTRUCTION LTD., HAVING AN ADDRESS AT 62 HORSESHOE HILL ROAD, POUND RIDGE, NY 10576,

party of the first part, and

BEDFORD SINLE FAMILY LLC., HAVING AN ADDRESS AT ~~710 AVENUE U, BROOKLYN, NY 11223,~~ 373 SAW MILL RIVER RD. MILLWOOD, NY 10546

party of the second part,

WITNESSETH, that the party of the first part, in consideration of

TEN DOLLARS AND OTHER GOOD AND VALUABLE CONSIDERATION dollars

paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE A ANNEXED HERETO AND MADE A PART HEREOF.

BEING AND INTENDED TO BE THE SAME PREMISES CONVEYED TO THE PARTY OF THE FIRST PART BY DEED DATED 06/06/2019 RECORDED ON 06/13/2019 IN THE OFFICE OF THE CLERK OF THE COUNTY OF WESTCHESTER IN CONTROL NO. 591563059.

PREMISES KNOWN AS 1 GUION LANE, BEDFORD, NY 10506 (SEC 95.01; BLK 2; LOT 10.3).

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.
AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

AMALGAMATED CONSTRUCTION LTD
BY: LESLIE COHEN, PRESIDENT

SCHEDULE A *(CONTINUED)*
DESCRIPTION OF PREMISES

ALL that certain tract or parcel of land, situate, lying and being In the Town of North Castle, County of Westchester and State of New York known and designated as Lot 4-3, as shown on that certain map entitled "Subdivision of Property Prepared for Menyhert Kalmancy and Anna Kalmancy" prepared by Donald J. Donnelly Land Surveyor, P.C., dated March 9, 2001 last revised October 11, 2001 and filed in the Westchester County Clerk's Office, Division of Land Records, on May 16, 2002 as Map No. 26976.

Being and Intended to be the same premises conveyed to the granter by deed dated 7/15/2005 and recorded on 10/4/2005 In the Westchester County Clerk's Office in Control Number 452640459.

For information only:
Premises known as 1 Guion Lane, Bedford, NY 10506 and designated as Section 95.01 Block 2 Lot 10.3, and shown on the Tax Map of the County of Westchester, State of New York.

ACKNOWLEDGEMENT TAKEN IN NEW YORK STATE

State of New York, County of Westchester , ss:

On the 15th day of March in the year 2023, before me, the undersigned, personally appeared Leslie Cohen, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

NOTARY PUBLIC

JOSEPH ROSS LoCASCIO, JR.
Notary Public, State of New York
Registration #02LO4646389
Qualified In Westchester County
Commission Expires June 30, 2023

ACKNOWLEDGEMENT TAKEN IN NEW YORK STATE

State of New York, County of , ss:

On the _____ day of _____ in the year , before me, the undersigned, personally appeared _, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

NOTARY PUBLIC

ACKNOWLEDGEMENT BY SUBSCRIBING WITNESS TAKEN IN NEW YORK STATE

State of New York, County of , ss:

On the day of in the year , before me, the undersigned, a Notary Public in and for said State, personally appeared , the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he/she/they reside(s) in (if the place of residence is in a city, include the street and street number if any, thereof); that he/she/they know(s) to be the individual described in and who executed the foregoing instrument; that said subscribing witness was present and saw said execute the same; and that said witness at the same time subscribed his/her/their name(s) as a witness thereto.

NOTARY PUBLIC

ACKNOWLEDGEMENT TAKEN OUTSIDE NEW YORK STATE

State of , County of , ss:

On the day of in the year , before me, the undersigned personally appeared personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual make such appearance before the undersigned in the (add the city or political subdivision and the state or country or other place the acknowledgement was taken).

NOTARY PUBLIC

Bargain & Sale Deed With Covenants

AMALGAMATED CONSTRUCTION LTD

TO

BEDFORD SINGLE FAMILY LLC

Title No.

DISTRIBUTED BY

JUDICIAL TITLE

T: 800-281-TITLE F: 800-FAX-9396

COUNTY: WESTCHESTER

TOWN/CITY: TOWN OF NORTH CASTLE

PROPERTY ADDRESS: 1 GUION LANE

SECTION: 95.01

BLOCK: 2

LOT: 10.3

RETURN BY MAIL TO:

STEVEN R. YUNIVER, ESQ.
710 AVENUE U
BROOKLYN, NY 11223

1 GUION LANE

LIST OF ABUTTING PROPERTY OWNERS

95.01-2-2
ANDREW J ZATARGA I/L/T
CELINE R ZATARGA TRUSTEE
45 BRETT LN
BEDFORD NY 10506

95.01-2-9
TODARO MARC G
TODARO JESSICA
43 BRETT LN
BEDFORD NY 10506

95.01-2-10.4
CARROLL DAVID
CARROLL ALEXANDRA
150 N BEDFORD RD APT F2
CHAPPAQUA NY 10514

95.01-2-10.5
STARK CHARLES R
STARK NICOLE
5 GUION LN
BEDFORD NY 10506

95.01-2-10.2
KALMANCY MENYHERT
MENYHERT KALMANCY REV TRU
KALMANCY, FRANK & GEORGE
5106 AVALON DR
SHELTON, CT 06484

95.01-2-1.1
DOUGAN BRADY W
35 WILSHIRE RD
GREENWICH CT 06831

1 Guion Lane Abutting Properties

North Castle, NY

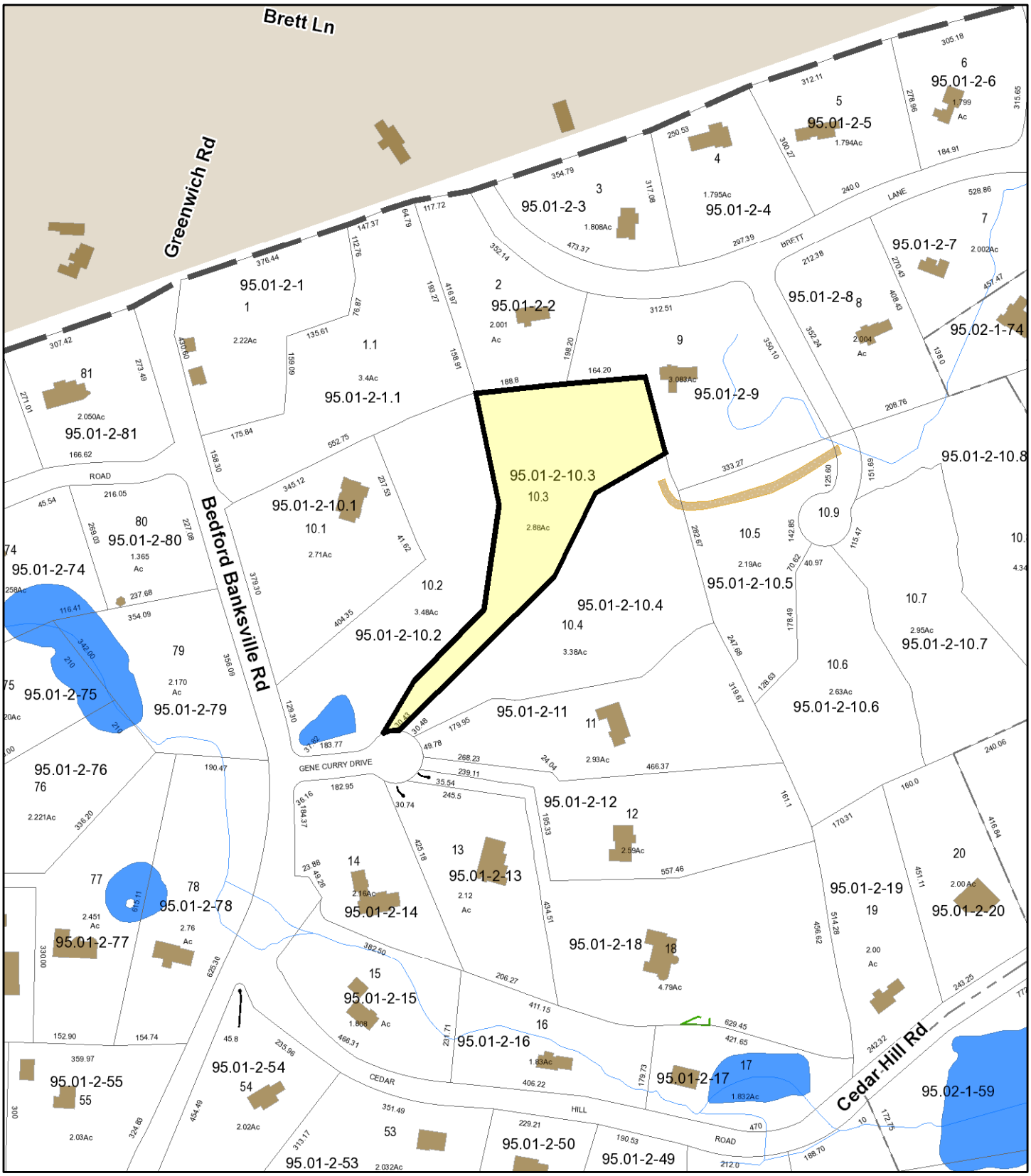
1 inch = 283 Feet

August 9, 2021

0 283 566 849

CAI Technologies
Precision Mapping. Geospatial Solutions.

www.cai-tech.com



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

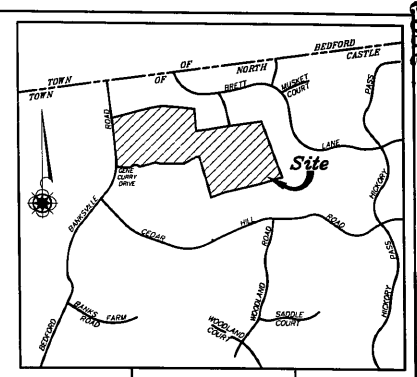
SUBDIVISION OF PROPERTY
Prepared For
MENYHERT KALMANCY
& ANNA KALMANCY

Property shown hereon being tax lot 4 as shown on a map entitled "LOT LINE ADJUSTMENT PREPARED FOR ANDREW CSERENYI, GLADYS CSERENYI, MENYHERT KALMANCY AND ANNA KALMANCY" filed in the Westchester County Clerk's Office, Division of Land Records as map no. 25536.

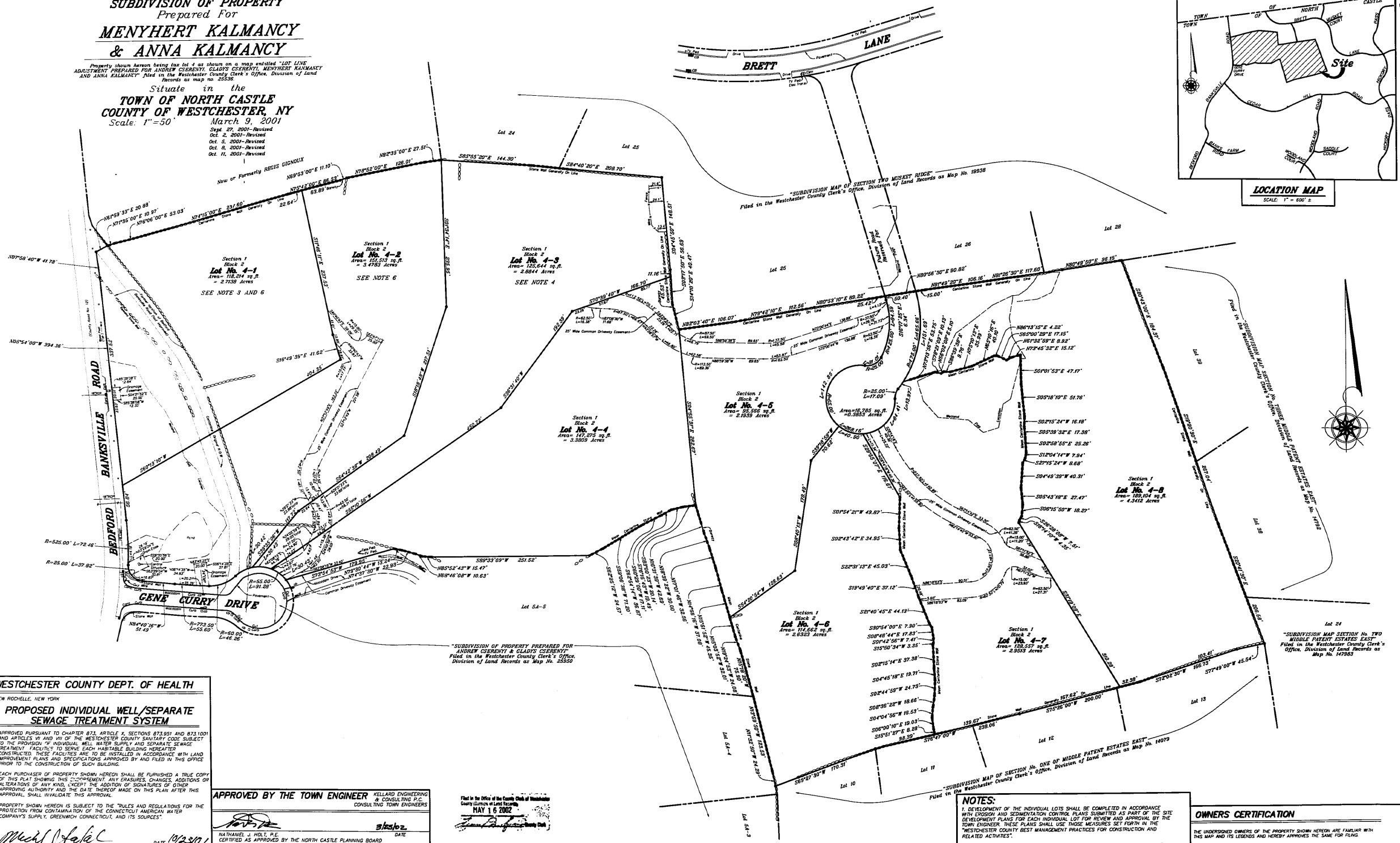
Situate in the
TOWN OF NORTH CASTLE
COUNTY OF WESTCHESTER, NY

Scale: 1"=50' March 9, 2001

Sept. 27, 2001- Revised
Oct. 2, 2001- Revised
Oct. 5, 2001- Revised
Oct. 8, 2001- Revised
Oct. 11, 2001- Revised



LOCATION MAP
SCALE: 1" = 600' ±


BRETT LANE
BANKSVILLE ROAD
BEDFORD ROAD
GENE CURRY DRIVE
"SUBDIVISION MAP OF SECTION TWO MUSKET RIDGE" Filed in the Westchester County Clerk's Office, Division of Land Records as Map No. 19938
"SUBDIVISION OF PROPERTY PREPARED FOR ANDREW CSERENYI & GLADYS CSERENYI" Filed in the Westchester County Clerk's Office, Division of Land Records as Map No. 25950
"SUBDIVISION MAP SECTION No. TWO MIDDLE PATENT ESTATES EAST" Filed in the Westchester County Clerk's Office, Division of Land Records as Map No. 147983
"SUBDIVISION MAP OF SECTION No. ONE OF MIDDLE PATENT ESTATES EAST" Filed in the Westchester County Clerk's Office, Division of Land Records as Map No. 14079
Section 1 Block 2 Lot No. 4-1 Area= 118,214 sq.ft. = 2.7138 Acres SEE NOTE 3 AND 6
Section 1 Block 2 Lot No. 4-2 Area= 151,513 sq.ft. = 3.4793 Acres SEE NOTE 6
Section 1 Block 2 Lot No. 4-3 Area= 125,644 sq.ft. = 2.8844 Acres SEE NOTE 4
Section 1 Block 2 Lot No. 4-4 Area= 147,275 sq.ft. = 3.3809 Acres
Section 1 Block 2 Lot No. 4-5 Area= 95,566 sq.ft. = 2.1939 Acres
Section 1 Block 2 Lot No. 4-6 Area= 114,662 sq.ft. = 2.6323 Acres
Section 1 Block 2 Lot No. 4-7 Area= 128,557 sq.ft. = 2.9513 Acres
Section 1 Block 2 Lot No. 4-8 Area= 189,104 sq.ft. = 4.3412 Acres
Lot 24
Lot 25
Lot 26
Lot 28
Lot 39
Lot 38
Lot 13
Lot 12
Lot 11
Lot 10
Lot 5A-1
Lot 5A-2
Lot 5A-3
Lot 5A-4
Lot 5A-5
Now or Formerly REGIS GIGNOUX
Now or Formerly PALMER
Now or Formerly SCHWARTZ
Now or Formerly MARTIN
Now or Formerly MARTIN
Now or Formerly MARTIN

The Office of the Westchester County Clerk: This page is part of the instrument; the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.

623633412EAS001U

Westchester County Recording & Endorsement Page

Submitter Information

Name:	National Real Estate Services Inc. (PICK UP ALL NE\	Phone:	914-686-5600
Address 1:	222 Bloomingdale Road	Fax:	914-686-1440
Address 2:	Suite 306	Email:	nresirecordings@allnyt.com
City/State/Zip:	White Plains NY 10605	Reference for Submitter:	ACR-9038^

Document Details

Control Number: **623633412** Document Type: **Easement (EAS)**

Package ID: 2022122900159001003 Document Page Count: **11** Total Page Count: **13**

Parties

☐ Additional Parties on Continuation page

	1st PARTY		2nd PARTY	
1:	AMALGAMATED CONSTRUCTION LTD	- Other	CARROLL ALEXANDRA	- Individual
2:			CARROLL DAVID	- Individual

Property

☑ Additional Properties on Continuation page

Street Address: 1 GUION LANE Tax Designation: 95.01-2-10.3

City/Town: NORTH CASTLE Village:

Cross- References

☐ Additional Cross-Refs on Continuation page

1: 421920578 2: 3: 4:

Supporting Documents

1: TP-584

Recording Fees

Statutory Recording Fee:	$40.00
Page Fee:	$60.00
Cross-Reference Fee:	$0.50
Mortgage Affidavit Filing Fee:	$0.00
RP-5217 Filing Fee:	$0.00
TP-584 Filing Fee:	$5.00
RPL 291 Notice Fee:	$0.00
Total Recording Fees Paid:	**$105.50**

Transfer Taxes

Consideration:	$0.00
Transfer Tax:	$0.00
Mansion Tax:	$0.00
Transfer Tax Number:	7764

Mortgage Taxes

Document Date:

Mortgage Amount:

Basic:	$0.00
Westchester:	$0.00
Additional:	$0.00
MTA:	$0.00
Special:	$0.00
Yonkers:	$0.00
Total Mortgage Tax:	**$0.00**

Dwelling Type: Exempt: ☐

Serial #:

RECORDED IN THE OFFICE OF THE WESTCHESTER COUNTY CLERK

Recorded: 01/18/2023 at 12:47 PM

Control Number: **623633412**

Witness my hand and official seal

Timothy C.Idoni
Westchester County Clerk

Record and Return To

☐ Pick-up at County Clerk's office

Joseph R. LoCascio, Jr., Esq.
560 Warburton Avenue

Hastings-on-Hudson, NY 10706

The Office of the Westchester County Clerk: This page is part of the instrument; the County Clerk will rely on the information provided on this page for purposes of indexing this instrument. To the best of submitter's knowledge, the information contained on this Recording and Endorsement Cover Page is consistent with the information contained in the attached document.

623633412EAS001U

Westchester County Recording & Endorsement Page

Document Details

Control Number: **623633412**

Document Type: **Easement (EAS)**

Package ID: 20221229001590010003

Document Page Count: 11

Total Page Count: 13

Properties Addendum

3 GUION LANE 10506	NORTH CASTLE	95.01 2 10.4

FIRST AMENDMENT TO DECLARATION OF EASEMENT
DATED JANUARY 27, 2002 & RECORDED JULY 26, 2002
IN CONTROL NUMBER 421920565

THIS FIRST AMENDMENT TO DECLARATION OF EASEMENT is executed as of this 11th day of January, 2023 between DAVID CARROLL and ALEXANDRA CARROLL, having an address at 150 N. Bedford Road, Unit F2, Chappaqua, NY 10514, and AMALGAMATED CONSTRUCTION LTD, having an address at 62 Horseshoe Hill Road, Pound Ridge, NY 10576.

RECITIALS

A. MENYHERT KALMANCY & ANNA KALMANCY executed a Declaration of Easement on January 27, 2002, same was recorded in the Westchester County Clerk's Office on July 26, 2002 in Control Number 421920578, granting an easement and right of way over, across and upon Lots 4-3, 4-4 and 4-5. A copy of the Declaration of Easement is annexed hereto and designated as SCHEDULE A. A copy of the Subdivision Map reflecting the original easement is annexed hereto and designated as SCHEDULE B.

B. The parties hereto wish to amend the above mentioned Declaration of Easement pertaining to the portion traversing Lot 4-4. The parties propose reorienting the driveway easement as per the map annexed hereto and designated as SCHEDULE C. This amendment only applies to Lot 4-4.

C. That the portion of the driveway easement as created by the original declaration over Lot 4-4 will no longer be used and is hereby extinguished, released and terminated.

D. This Amendment shall be binding on the successors and assigns of the parties.

E. Except as specifically amended herein, all terms and conditions of the Declaration of Easement shall remain in full force and effect. In the event of any conflict between the terms and conditions of this Amendment and the terms and conditions of the Easement, the terms and conditions of this Amendment shall control.

F. This Amendment may be executed in multiple counterparts, each of which will be considered to be an original. Signature pages may be detached from the counterparts and attached to a single copy of this document to physically form one document. The parties may provide signatures to this Amendment by facsimile or PDF file and such facsimile or PDF file signatures shall be deemed to be the same as original signatures.

IN WITNESS WHEREOF, each party has signed this agreement as of the date hereinabove set forth.

Amalgamated Construction, Ltd.

David Carroll

By: Leslie Cohen, President

Alexandra Carroll

STATE OF NEW YORK
COUNTY OF WESTCHESTER

On the 7th day of January in the year 2023 before me, the undersigned, personally appeared David Carroll, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DANIEL GROARKE
Notary Public - State of New York
NO. 01GR6435852
Qualified in Westchester County
My Commission Expires Jul 5, 2026

Notary Public

STATE OF NEW YORK
COUNTY OF WESTCHESTER

On the 7th day of January in the year 2023 before me, the undersigned, personally appeared Alexandra Carroll, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

DANIEL GROARKE
Notary Public - State of New York
NO. 01GR6435852
Qualified in Westchester County
My Commission Expires Jul 5, 2026

Notary Public

STATE OF NEW YORK
COUNTY OF WESTCHESTER

On the 11th day of January in the year 2023 before me, the undersigned, personally appeared Leslie Cohen, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

LISA LOCASCIO HUFFMAN
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 02HU6338756
Qualified in Westchester County
Commission Expires March 21, 2024

Notary Public

RECORD AND RETURN TO:
Joseph R. LoCascio, Esq.
560 Warburton Avenue
Hastings on Hudson, NY 10706

Schedule A

Sec. 1, Blk 2, Lots 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8

Town of North Castle

Record & Return to:
Roland A. Baroni, Jr.
Stephens, Baroni, Reilly & Lewis
175 Main Street
White Plains, NY 10601

DLR
5-P
NOL
057B

DECLARATION

This Declaration, made this 27 day of January, 2002 by **MENYHERT KALMANCY and ANNA KALMANCY**, his wife, (hereinafter collectively referred to as "Declarant") residing at 1529 Gillespie Avenue, Bronx, New York 10461.

WITNESSETH:

WHEREAS, Declarant is the record owner of certain real property located Northeast of Bedford Banksville Road and South of Brett Lane, in the Town of North Castle, County of Westchester, State of New York as more particularly described in Schedule A attached hereto and made a part hereof (which real property is hereinafter referred to as the "Premises"); and

WHEREAS, the Premises are in the process of being sub-divided by the Declarant pursuant to a certain sub-division map intended to be filed in the Westchester County Clerk's Office entitled "Subdivision of Property Prepared For Menyhert Kalmancy & Anna Kalmancy" prepared by Donald J. Donnelly Land Surveyor, P.C. dated March 9, 2001 last revised October 11, 2001 (hereinafter referred to as the "Map"), pursuant to which sub-division the Premises are being subdivided into eight (8) separate single family dwelling building lots (each of which is hereinafter referred to as a "Lot" or collectively as the "Lots") which Lots are numerically designated on the Map as Lots 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, and 4-8.

WHEREAS, the Declarant desires to provide for the construction on the portion of Lots 4-4 and 4-5 as shown on the Map as the "25' Wide Common Driveway Easement" leading from Brett Court (the "Easement Area") of a common driveway which is to service Lots 4-4 and 4-3 as shown on the Map (hereinafter referred to as the "Common Driveway"), to provide for an easement in favor of the owners of Lots 4-4 and 4-3 across the Common Driveway and the Easement Area for pedestrian and vehicular traffic and for the installation of certain utilities to and from Lots 4-3 and 4-4 to the road shown on the Map as Brett Court (the "Road"), and to provide for the installation, use, and maintenance of the Common Driveway and certain utilities; and

NOW THERFORE, the Declarant hereby declares and agrees as follows:

1. Whichever owner of Lot 4-4 or 4-3 first obtains a building permit for the construction on his Lot of a dwelling ("Lot Owner No. 1") shall construct the Common Driveway (including landscaping) within the Easement Area, pursuant to specifications required by the Town of North Castle so that a Certificate of Occupancy can be issued for the houses which will be constructed on Lots 4-4 and 4-3. Lot Owner No. 1 shall have the right to use contractors and sub-contractors of his choice in constructing the Common Driveway. If Lot Owner No. 1 has not completed the construction of the Common Driveway on or before the date when the owner of the other of Lot 4-4 or 4-3 obtains a building permit for the construction of a dwelling on his lot ("Lot

Owner No.2"), then Lot Owner No.2 shall have the right to construct and/or complete the construction of the Common Driveway, within the Easement Area pursuant to specifications required by the Town of North Castle so that a Certificate of Occupancy can be issued for the houses which will be constructed on Lots 4-4 and 4-3. Lot Owner No.2 shall have the right to use contractors or sub-contractors of his choice to perform such work. The reasonable cost of the construction of the Common Driveway (including landscaping thereof) shall be paid for in equal one half shares by the owners of each of Lots 4-4 and 4-3. Notwithstanding anything contained herein to the contrary, in the event that Lot Owner No. 1 or Lot Owner No. 2 proposes to construct the Common Driveway, then such Lot owner will not construct the Common Driveway unless and until it has received a bid for the construction of the Common Driveway from two (2) independent reputable driveway contractors (the "Bids"). Such Lot owner shall be allowed to construct the Common Driveway itself provided that its charge for construction of the Common Driveway is equal to or less than the lower of the two Bids. In the event that such Lot owner decides not to construct the Common Driveway itself, then such Lot owner shall have the right to have the Common Driveway constructed by the lower of the two bidders. Such Lot owner shall provide each other Lot owner who is obligated to pay a portion of the cost of construction of the Common Driveway with a copy of the Bids.

2. The construction and maintenance, and the cost thereof, of the separate driveways servicing each individual Lot and leading (i) with respect to Lot 4-4 from the point (the "Driveway Intersection Point") where the separate driveway servicing the house to be built on Lot 4-4 intersects the Common Driveway and (ii) with respect to Lot 4-3 from the Driveway Intersection Point to the house to be built on Lot 4-3 (each a "Separate Driveway"), shall be the sole responsibility of the owner of the Lot which is serviced by such Separate Driveway.

3. The reasonable cost of snowplowing, maintaining (including landscaping maintenance), salting, reconstructing, and/or sanding the Common Driveway (collectively, the "Maintenance Costs") shall be paid for in equal shares by those owners of Lots 4-4 and 4-3 who have obtained a building permit for the construction on their Lot of a dwelling. Until an owner of Lot 4-4 or 4-3 has obtained a building permit for the construction of a dwelling on his Lot , he shall have no responsibility to pay for the Maintenance Costs.

4. The owners of Lots 4-4 and 4-3 shall have the right to use the Common Driveway for vehicular and pedestrian traffic of such owners, and their guests and invitees, from such Lot to the Road, provided that no owner of any such Lot, nor their guests nor invitees shall

overburden, in any fashion, the use of the Common Driveway. The owners of Lots 4-4 and 4-3 shall each also have an easement over the Easement Area for (i) the construction, maintenance and use of the Common Driveway and Separate Driveway and (ii) the installation, maintenance and use of underground electric, telephone, and cable utilities servicing each such Lot. The cost of installing and maintaining any such utilities shall be paid for by the Lot Owner installing or maintaining same. Any damage that any Lot owner or its contractors causes to the Common Driveway, any Separate Driveway, or the landscaping thereof pursuant to its installation and maintenance of utilities shall be repaired, restored, and paid for by such Lot owner.

5. Notwithstanding anything contained herein to the contrary, in the event that any owner of any of Lots 4-5, 4-4, or 4-3 or any of their guests or invitees causes any damage to the Common Driveway or any Separate Driveway, the cost of repairing such damage shall be paid for entirely by the owner of such Lot who causes or whose guests or invitees cause such damage to the Common Driveway or any Separate Driveway, and any of the owners of Lots 4-3, 4-4, or 4-5 shall have the right to repair such damage.

6. Any cost provided for in Paragraphs 1, 3, 4 and 5 herein which may be owed by any Lot owner shall be paid by such Lot owner to the Lot owner who has incurred and who is owed such cost, upon such cost being incurred and within thirty (30) days after written request for same is made by such incurring Lot owner to such owing Lot owner.

7. This Declaration shall run with the land and shall be binding upon the Declarants, and their heirs, executors, successors and assigns.

8. This Declaration is being executed, delivered, and recorded in the Office of the County Clerk, Division of Land Records, County of Westchester, State of New York, and this Agreement shall not be amended nor released except by duly recorded written instrument signed by the then owner of Lots 4-5, 4-4, 4-3, and by the Town of North Castle.

IN WITNESS WHEREOF, this Declaration has been executed on the date first appearing herein above.

Menyhert Kalmancy
MENYHERT KALMANCY

Anna Kalmancy
ANNA KALMANCY

STATE OF NEW YORK)
Bronx) ss.:
COUNTY OF ~~WESTCHESTER~~)

On the 27 day of Jan. in the year 2002 before me, the undersigned personally appeared MENYHERT KALMANCY AND ANNA KALMANCY personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and Office of individual
taking acknowledgement

MARYANN GAMMIERI
Notary Public, State of New York
No. 01GA4630875
Qualified in Bronx County
Commission Expires Nov. 30, 2002

H:\barbara\Cserenyi - Real Estate\Kalmancy Declaration.wpd

SCHEDULE A

ALL that certain plot, piece or parcel of land, situate. Lying and being in the Town of North Castle, County of Westchester, and State of New York known and designated as Lots 4-3, 4-4 and 4-5 as shown on that certain map entitled "Subdivision of Property Prepared For Menyhert Kalmancy & Anna Kalmancy" prepared by Donald J. Donnelly Land Surveyor, P.C. dated March 9, 2001 last revised October 11, 2001 and filed in the Westchester County Clerk's Office, Division of Land Records, on May 16th, 2002 as Map No. 26976.

H:\barbara\Cserenyi - Real Estate\Kalmancy 6 Schedule a.wpd

(5)

421920578DLRC

Control Number	WIID Number	Instrument Type
421920578	2002192-000277	DLR

WESTCHESTER COUNTY RECORDING AND ENDORSEMENT PAGE
(THIS PAGE FORMS PART OF THE INSTRUMENT)
***** DO NOT REMOVE *****

THE FOLLOWING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS:

TYPE OF INSTRUMENT DLR - DECLARATION
FEE PAGES 6 **TOTAL PAGES** 6

RECORDING FEES

STATUTORY CHARGE	$5.25
RECORDING CHARGE	$18.00
RECORD MGT. FUND	$4.75
RP 5217	$0.00
TP-584	$0.00
CROSS REFERENCE	$0.00
MISCELLANEOUS	$0.00
TOTAL FEES PAID	$28.00

TRANSFER TAXES

CONSIDERATION	$0.00
TAX PAID	$0.00
TRANSFER TAX #	

MORTGAGE TAXES

MORTGAGE DATE	
MORTGAGE AMOUNT	$0.00
EXEMPT	
YONKERS	$0.00
BASIC	$0.00
ADDITIONAL	$0.00
SUBTOTAL	$0.00
MTA	$0.00
SPECIAL	$0.00
TOTAL PAID	$0.00

SERIAL NUMBER
DWELLING

RECORDING DATE 07/26/2002
TIME 11:10:00

THE PROPERTY IS SITUATED IN WESTCHESTER COUNTY, NEW YORK IN THE: TOWN OF NORTH CASTLE

WITNESS MY HAND AND OFFICIAL SEAL

Leonard N. Spano

LEONARD N. SPANO
WESTCHESTER COUNTY CLERK

Record & Return to:
ROLAND A. BARONI, JR.
STEPHENS, BARONI, REILLY & LEWIS
175 MAIN STREET
WHITE PLAINS, NY 10601

DESCRIPTION OF A DRIVEWAY EASEMENT LOCATED IN THE TOWN OF NORTH CASTLE, COUNTY OF WESTCHESTER, STATE OF NEW YORK.

ALL that certain plot, piece or parcel of land, situate, lying and being located in the Town of North Castle, County of Westchester, State of New York being a driveway easement running through Lot 4-4 as shown on a certain map entitled "Subdivision of Property prepared for Menyhert Kalmancy & Anna Kalmancy" in the Town of North Castle, Westchester County, NY, said map filed in the Westchester County Clerk's office on May 16, 2002 as map number 26976, said lot, plot or parcel of land being more particularly bounded and described as follows:

BEGINNING at a point on the westerly side of Guion lane as shown on said map, said point on the northerly line of Lot 4-5 on said map;

Thence along the Westerly along the Northerly line of lot 4-5 South 80°-53'-10" West 89.22 ft. and South 79°-42'-10" West 112.56 ft and South 82°03'40" East 106.07 ft. to a point on the property line of Lot 4-4 on said map the true Point or Place of Beginning.

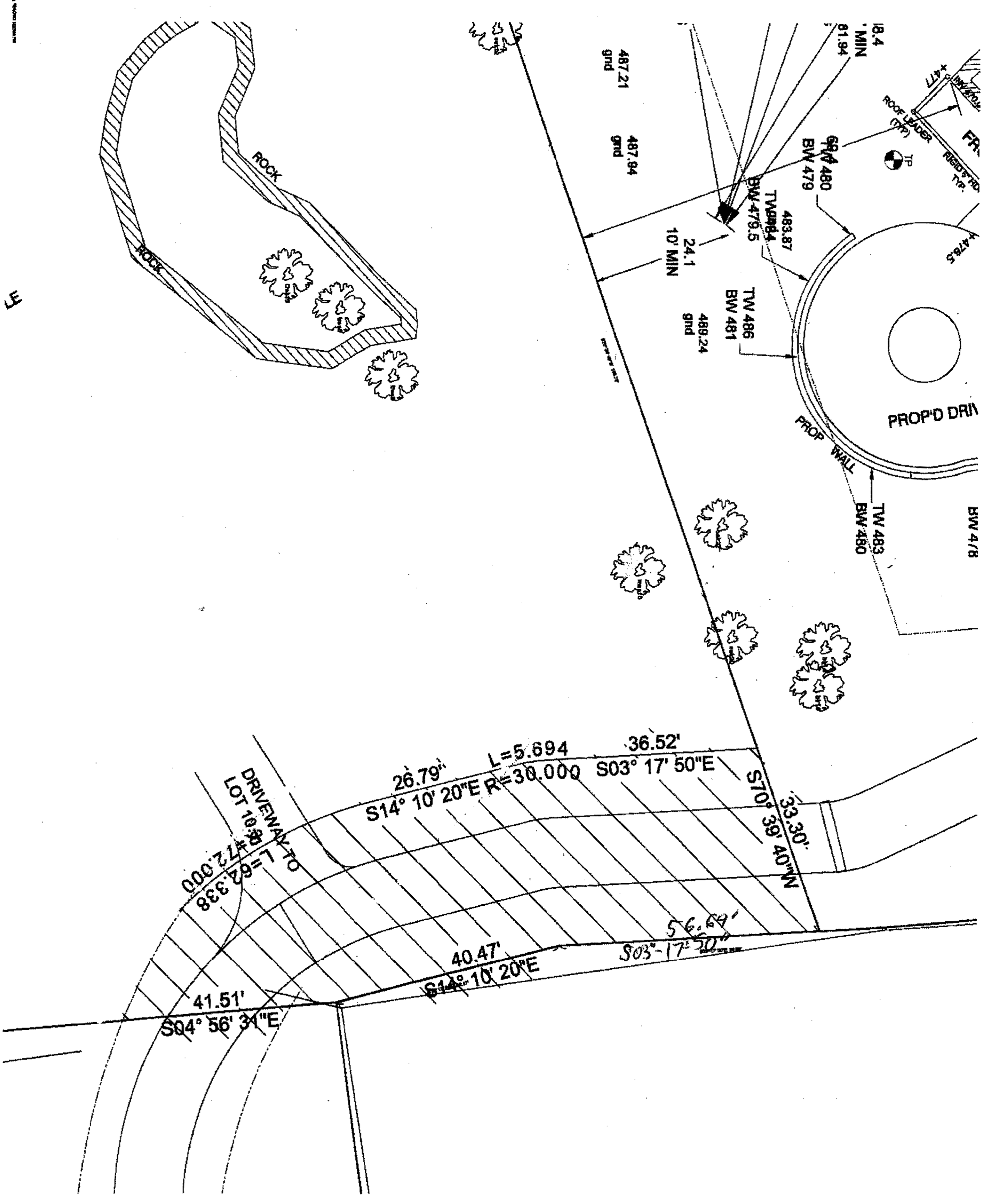
Thence Northerly along the Easterly line of Lot 4-4 North 14°-10'20" West 40.47 ft. and North 03°-17'50' West 56.69 ft. to the southerly corner of Lot 4-3.

Thence along the dividing line between Lots 4-3 and 4-4 South 70°39'-40" West 33.30'

Thence through Lot 4-4 the following courses and distances;
South 03°-17'-50" East 39.37 ft.
South 14°-10'-20" East 29.65 ft
Thence on a curve to the left having a radius of 72.0 ft a length of 62.33 ft. to a point on the line dividing Lots 4-4 and 4-5 on said file map.

Thence along said dividing line North 4°-55'-31" West 41.51 ft to the POINT OR PLACE OF BEGINNING.

Schedule C


ROCK
ROCK
487.21 grd
487.84 grd
489.24 grd
24.1
10' MIN
TW 486
BW 481
483.87
BW 479.5
TW 480
BW 479
TW 483
BW 480
PROP'D DRI
PROP WALL
ROOF LEADER (TYP)
DRIVEWAY TO LOT 10.30
26.79'
L=5.694
R=30.000
36.52'
S03° 17' 50"E
S14° 10' 20"E
S70° 39' 40"W
33.30'
56.69'
S03°-17'-50"
40.47'
S14° 10' 20"E
41.51'
S04° 56' 31"E
L=62.338
R=72.000

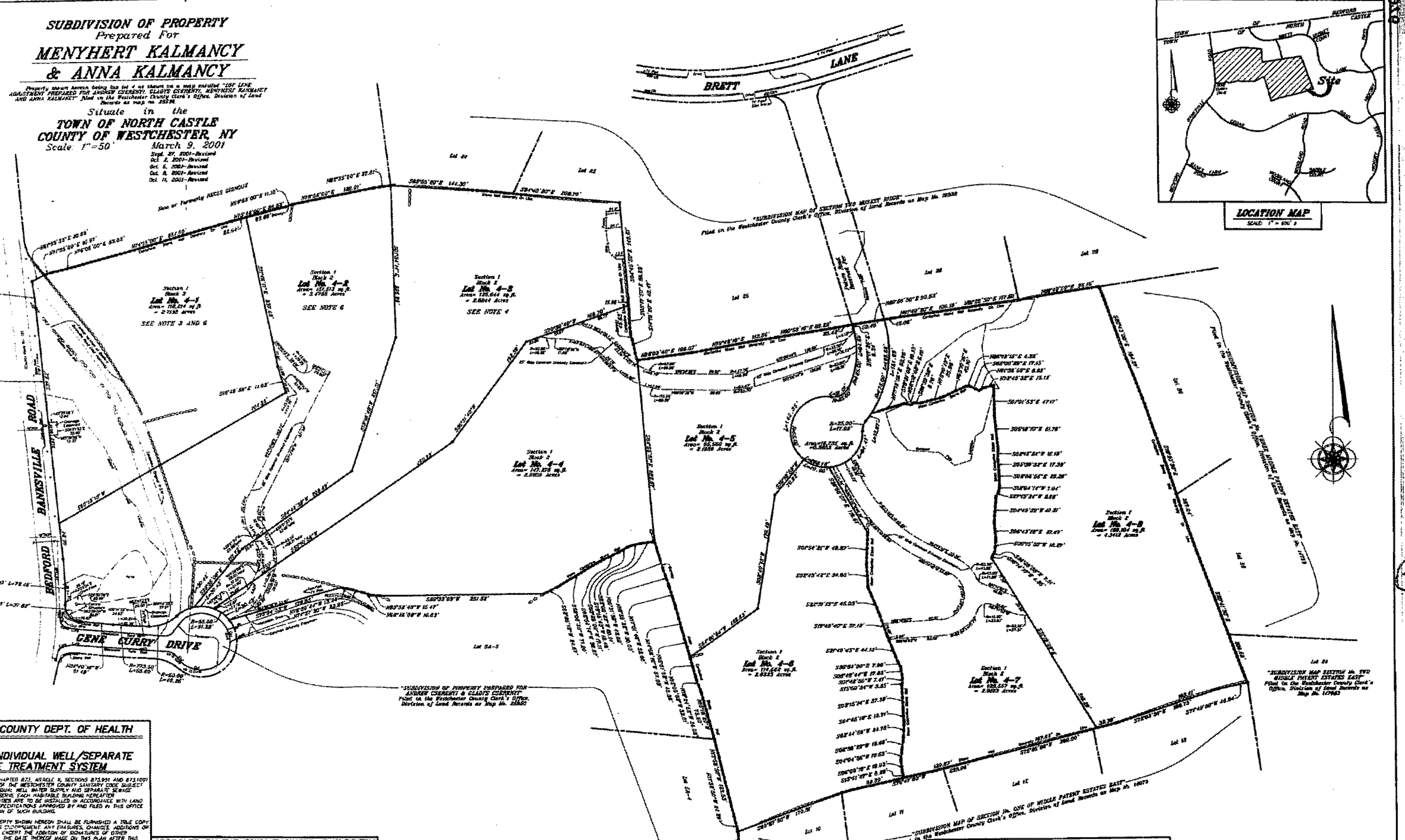
SUBDIVISION OF PROPERTY
Prepared For
MENYHERT KALMANCY & ANNA KALMANCY

Property shown hereon being the lot 4 as shown on a map entitled "LOT LINE ADJUSTMENT PREPARED FOR ANDREW CSERENYI, GLADYS CSERENYI, MENYHERT KALMANCY AND ANNA KALMANCY" filed in the Westchester County Clerk's Office, Division of Land Records as map no. 25538.

Situate in the
TOWN OF NORTH CASTLE
COUNTY OF WESTCHESTER, NY

Scale: 1"=50'

March 9, 2001
Sept. 27, 2001–Revised
Oct. 2, 2001–Revised
Oct. 5, 2001–Revised
Oct. 8, 2001–Revised
Oct. 11, 2001–Revised



Schedule B

WESTCHESTER COUNTY DEPT. OF HEALTH
NEW ROCHELLE, NEW YORK

PROPOSED INDIVIDUAL WELL/SEPARATE SEWAGE TREATMENT SYSTEM

APPROVED PURSUANT TO CHAPTER 873, ARTICLE X, SECTIONS 873.951 AND 873.1001 AND ARTICLES VI AND VII OF THE WESTCHESTER COUNTY SANITARY CODE SUBJECT TO THE PROVISION OF INDIVIDUAL WELL WATER SUPPLY AND SEPARATE SEWAGE TREATMENT FACILITIES TO SERVE EACH HABITABLE BUILDING HEREAFTER CONSTRUCTED. THESE FACILITIES ARE TO BE INSTALLED IN ACCORDANCE WITH LAND IMPROVEMENT PLANS AND SPECIFICATIONS APPROVED BY AND FILED IN THIS OFFICE PRIOR TO THE CONSTRUCTION OF SUCH BUILDING.

EACH PURCHASER OF PROPERTY SHOWN HEREON SHALL BE FURNISHED A TRUE COPY OF THIS PLAT SHOWING THIS ENDORSEMENT. ANY ERASURES, CHANGES, ADDITIONS OR ALTERATIONS OF ANY KIND, EXCEPT THE ADDITION OF SIGNATURES OF OTHER APPROVING AUTHORITY AND THE DATE THEREOF MADE ON THIS PLAN AFTER THIS APPROVAL, SHALL INVALIDATE THIS APPROVAL.

PROPERTY SHOWN HEREON IS SUBJECT TO THE "RULES AND REGULATIONS FOR THE PROTECTION FROM CONTAMINATION OF THE CONNECTICUT AMERICAN WATER COMPANY'S SUPPLY, GREENWICH CONNECTICUT, AND ITS SOURCES".

APPROVED BY THE ASSISTANT COMMISSIONER OF HEALTH ON BEHALF OF THE DEPARTMENT OF HEALTH — DATE 10/23/01

AREA SCHEDULE:
AREA OF LOTS = 24.3761 ACRES
AREA OF ROAD = 0.5853 ACRES
TOTAL AREA = 24.9614 ACRES

ENGINEERING BY:
DANIEL A. CIARCIA, P.E.
N.Y.S. LIC. NO. 61684
3451 MOHANSIC AVENUE
YORKTOWN HEIGHTS, NY 10598
PHONE: 914-243-5670

APPROVED BY THE TOWN ENGINEER
KELLARD ENGINEERING & CONSULTING P.C.
CONSULTING TOWN ENGINEERS

NATHANIEL J. HOLT, P.E. — DATE 2/25/02
CERTIFIED AS APPROVED BY THE NORTH CASTLE PLANNING BOARD AS TO DRAINAGE AND ENGINEERING MATTERS

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF NORTH CASTLE

DOUGLAS P. CASSETTA, PLANNING BOARD CHAIRMAN — DATE 3/25/02

WESTCHESTER COUNTY INDEX:
SHEET: 148
BLOCK: 8713

EXISTING TAX DESIGNATION:
SECTION: 1
BLOCK: 2
LOT: 4

FILED MAY 16 2002
26976
FEE PAID $ 10—

SEPTIC SCHEDULE

Section	Block	Lot #	Lot Area Acres	Lot Area sq. ft.	SSDS Area (sq. ft.)	* Test Pit Description	[illegible]	Perc. Rate min/in	Depth to Water	* Depth to impervious Layer	Length of Fields (ft.) 4 Bedroom	Length of Fields (ft.) add Bedroom	Bank Run Fill Depth (ft.)	Bank Run Fill Vol. (cu.yd.)	Curtain Drain Depth	Curtain Drain Length	Remarks
1	2	4-1	2.7130	118,214	5000	Sandy Loam & Sand	14.0	7.0	---	>84"	400	100	0' - 1.5'	195	---	---	
1	2	4-2	3.4783	151,513	5000	Silty Loam & Sandy Sand	15.0	3.0	48"	>84"	338	84	3'	700	---	---	Pumping required
1	2	4-3	2.8844	125,644	5000	Sandy Loam & Sand	8.0	3.0	---	86"	338	84	1.5'	375	---	---	
1	2	4-4	3.3809	147,375	5000	Sandy Loam & Sand	11.0	2.0	---	84"	338	84	0' - 1'	85	---	---	
1	2	4-5	2.1938	95,566	5000	Sandy Loam & Sand	11.0	2.0	42" EXP	60" PPR	338	84	[illegible]	[illegible]	---	---	[illegible]
1	2	4-6	2.6323	114,662	5000	Sandy Loam & Sand	8.0	2.0	---	>84"	338	84	0' - 1'	65	---	---	Pumping required
1	2	4-7	2.9513	128,557	5000	Sandy Loam & Sand	8.0	3.0	---	86"	338	84	1.5'	275	---	---	Pumping required
1	2	4-8	4.3412	189,104	5000	Sandy Loam	9.0	3.0	---	54"	338	84	2.5'	475	---	---	

* As reported by Designing engineer
See remarks column for "Pumping Required".

NOTES:

1. DEVELOPMENT OF THE INDIVIDUAL LOTS SHALL BE COMPLETED IN ACCORDANCE WITH EROSION AND SEDIMENTATION CONTROL PLANS SUBMITTED AS PART OF THE SITE DEVELOPMENT PLANS FOR EACH INDIVIDUAL LOT FOR REVIEW AND APPROVAL BY THE TOWN ENGINEER. THESE PLANS SHALL USE THOSE MEASURES SET FORTH IN THE "WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND RELATED ACTIVITIES".

2. THERE SHALL BE NO FURTHER SUBDIVISION OF ANY LOT SHOWN ON SAID PLAT THAT RESULTS IN THE CREATION OF AN ADDITIONAL BUILDING LOT. APPROPRIATE DOCUMENTATION SHALL ALSO BE PROVIDED TO THE SATISFACTION OF THE TOWN ATTORNEY RESTRICTING FUTURE SUBDIVISION.

3. LOT 1 SHALL REQUIRE SITE PLAN APPROVAL BY THE PLANNING BOARD PRIOR TO THE CONSTRUCTION OF A RESIDENCE ON THIS LOT.

4. LOT 3 SHALL REQUIRE SITE PLAN APPROVAL BY THE PLANNING BOARD PRIOR TO THE CONSTRUCTION OF A RESIDENCE ON THIS LOT.

5. ALL ROADS AND DRIVEWAYS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN ON THE INTEGRATED IMPROVEMENT PLAN. ANY MODIFICATIONS TO THESE LOCATIONS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE PLANNING BOARD.

6. ALL LANDSCAPING AS SHOWN ON THE APPROVED LANDSCAPE PLAN FOR THE DETENTION BASIN SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR BOTH LOT 1 AND LOT 2. ALL LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY AND VIGOROUS GROWING CONDITION AND ANY PLANT MATERIALS NO SO MAINTAINED SHALL BE REPLACED AT THE BEGINING OF THE IMMEDIATELY FOLLOWING GROWING SEASON. PROTECTION MEASURES SHALL INCLUDE THE INSTALLATION OF CONSTRUCTION FENCING.

7. APPROPRIATE LANDSCAPING TO PROVIDE ADDITIONAL SCREENING OF THE CUL-DE-SAC FROM ADJACENT RESIDENTS SHALL BE INSTALLED AND MAINTAINED TO THE EAST CUL-DE-SAC.

8. NO EXISTING STONE WALL SHALL BE REMOVED OR SIGNIFICANTLY MODIFIED UNLESS APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD.

9. NO MORE THAN ONE (1) DRIVEWAY CURB-CUT SHALL BE PERMITTED FOR EACH LOT.

10. THE LOCATION OF ALL RESIDENCES AND DRIVEWAYS AND THE EXTENT OF WETLAND OR WETLAND BUFFER ENCROACHMENT FOR EACH LOT SHALL SUBSTANTIALLY CONFORM TO THAT SHOWN ON THE SUBDIVISION PLAT AND ANY RELATED DRAWINGS. ANY SUBSTANTIAL MODIFICATION, AS DETERMINED BY THE TOWN ENGINEER, NOT CONSISTENT WITH SUCH DRAWINGS SHALL REQUIRE SITE PLAN APPROVAL FOR EACH LOT FROM THE PLANNING BOARD.

OWNERS CERTIFICATION

THE UNDERSIGNED OWNERS OF THE PROPERTY SHOWN HEREON ARE FAMILIAR WITH THIS MAP AND ITS LEGENDS AND HEREBY APPROVES THE SAME FOR FILING.

MENYHERT KALMANCY — DATE
3720 BRUNER AVE., BRONX, NY 10469-4710

ANNA KALMANCY — DATE
3720 BRUNER AVE., BRONX, NY 10469-4710

SURVEYORS CERTIFICATION

WE, DONALD J. DONNELLY LAND SURVEYOR, P.C., THE SURVEYORS WHO MADE THIS MAP DO HEREBY CERTIFY THAT THIS MAP IS BASED ON AN ACTUAL SURVEY MADE BY US ON MARCH 8, 2001 AND THIS MAP WAS COMPLETED ON OCT. 11, 2001.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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0599
0446

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Westchester County, New York

CrC—Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky

Map Unit Setting

National map unit symbol: 2w698
Elevation: 0 to 1,550 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Charlton, very stony, and similar soils: 50 percent
Chatfield, very stony, and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Charlton, Very Stony

Setting

Landform: Hills, ridges
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Crest, side slope, nose slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Parent material: Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material
A - 2 to 4 inches: fine sandy loam
Bw - 4 to 27 inches: gravelly fine sandy loam
C - 27 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 3 to 15 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: B
Ecological site: F144AY034CT - Well Drained Till Uplands
Hydric soil rating: No

Description of Chatfield, Very Stony

Setting

Landform: Ridges, hills
Landform position (two-dimensional): Backslope, shoulder, summit

Landform position (three-dimensional): Crest, side slope, nose slope
Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
A - 1 to 2 inches: fine sandy loam
Bw - 2 to 30 inches: gravelly fine sandy loam
2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 3 to 15 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 20 to 41 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: B
Ecological site: F144AY034CT - Well Drained Till Uplands
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent
Hydric soil rating: No

Sutton, very stony

Percent of map unit: 5 percent
Landform: Ground moraines, hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Hollis, very stony

Percent of map unit: 5 percent
Landform: Ridges, hills
Landform position (two-dimensional): Backslope, shoulder, summit

Landform position (three-dimensional): Crest, side slope, nose slope
Down-slope shape: Convex
Across-slope shape: Linear, convex
Hydric soil rating: No

Leicester, very stony

Percent of map unit: 5 percent
Landform: Drainageways, depressions
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 16, Jun 11, 2020

Map Unit Description

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Westchester County, New York

CuD—Chatfield-Hollis-Rock outcrop complex, 15 to 35 percent slopes

Map Unit Setting

National map unit symbol: 2w69h
Elevation: 0 to 1,540 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Chatfield, extremely stony, and similar soils: 35 percent
Hollis, extremely stony, and similar soils: 30 percent
Rock outcrop: 20 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chatfield, Extremely Stony

Setting

Landform: Hills, ridges
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Crest, side slope, nose slope
Down-slope shape: Convex
Across-slope shape: Convex, linear
Parent material: Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
A - 1 to 2 inches: fine sandy loam
Bw - 2 to 30 inches: gravelly fine sandy loam
2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 15 to 35 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 41 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: F144AY034CT - Well Drained Till Uplands
Hydric soil rating: No

Description of Hollis, Extremely Stony

Setting

Landform: Hills, ridges

Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Side slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Coarse-loamy melt-out till derived from granite, gneiss, and/or schist

Typical profile

Oi - 0 to 2 inches: slightly decomposed plant material
A - 2 to 7 inches: gravelly fine sandy loam
Bw - 7 to 16 inches: gravelly fine sandy loam
2R - 16 to 26 inches: bedrock

Properties and qualities

Slope: 15 to 35 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 8 to 23 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: F144AY033MA - Shallow Dry Till Uplands
Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Hills, ridges
Parent material: Igneous and metamorphic rock

Typical profile

R - 0 to 79 inches: bedrock

Properties and qualities

Slope: 15 to 35 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Available water capacity: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8

Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Charlton, extremely stony
Percent of map unit: 7 percent
Landform: Hills, ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex
Hydric soil rating: No

Leicester, extremely stony
Percent of map unit: 4 percent
Landform: Ground moraines, depressions, drainageways, hills
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave, linear
Across-slope shape: Concave
Hydric soil rating: Yes

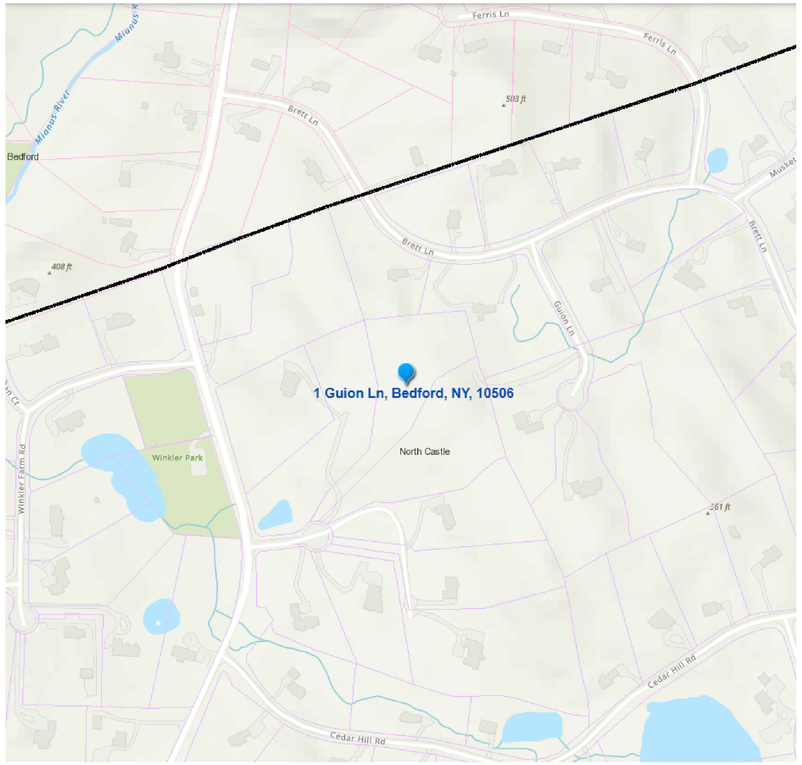
Sutton, extremely stony
Percent of map unit: 2 percent
Landform: Hills, ground moraines
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Paxton, extremely stony
Percent of map unit: 2 percent
Landform: Ground moraines, drumlins, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Hydric soil rating: No

Data Source Information

Soil Survey Area: Westchester County, New York
Survey Area Data: Version 16, Jun 11, 2020

AREA MAP
NTS



PROJECT NO RO26976

ZONING DISTRICT:	R-2A
FIRE DISTRICT:	BANKSVILLE FIRE
DEPARTMENT	
SCHOOL DISTRICT:	BYRAM HILLS SCHOOL
DISTRICT	
WATERSHED:	INLAND LONG ISLAND
SOUND BASIN	

1 GUION LANE - S/B/L 95.01/2/10.3 - ZONING TABLE		
Zone - R-2A	Permitted (FT)	Proposed
Lot Area (SF)	87,120	125645.3
Net lot Area (SF)	87,120	125315.3
Street Frontage (DRIVEWAY EASEMENT)	150	N/A
Lot Width	150	252
Lot Depth	150	402
Front Yard	50	85.6
Side Yard	30	67.4
Rear Yard	50	656.4
Building Height	30	30
Max Building Coverage (%)	8%	2.2%
Max Driveway Gradient (%)	14%	14.0%
Max Gross Land Coverage	16515.4	10741

PROPERTY IS AT THE DEAD END OF GUION LANE

LEGEND

- UTILITY POLE
- SIGN POST
- HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- GUY WIRES
- TELE. MANHOLE
- SEWER MANHOLE
- WATER MANHOLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- MANHOLE
- ELECTRIC BOX
- 102 EXISTING GRADE
- (102) PROPOSED GRADE
- 14 TREE SIZE
- TREE TO BE REMOVED
- SF——SF——SF SILT FENCE /AREA OF DISTURBANCE & CHAIN LINK FENCE (AS REQ'D BY MUNICIPALITY)
- PERC TEST PT
- TEST PIT TP

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____

_____ DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:

_____ DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

SITE PLAN ENLARGED

OWNER: Bedford Single Family LLC
373 Saw Mill River Rd.
Millwood, NY 10546

PROPERTY ADDRESS: 1 GUION LANE
BEDFORD, NY 10506

TAX MAP #:
Sec. 95.01 Block 2 Lot No. 10.3
LOCATED IN THE
TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK

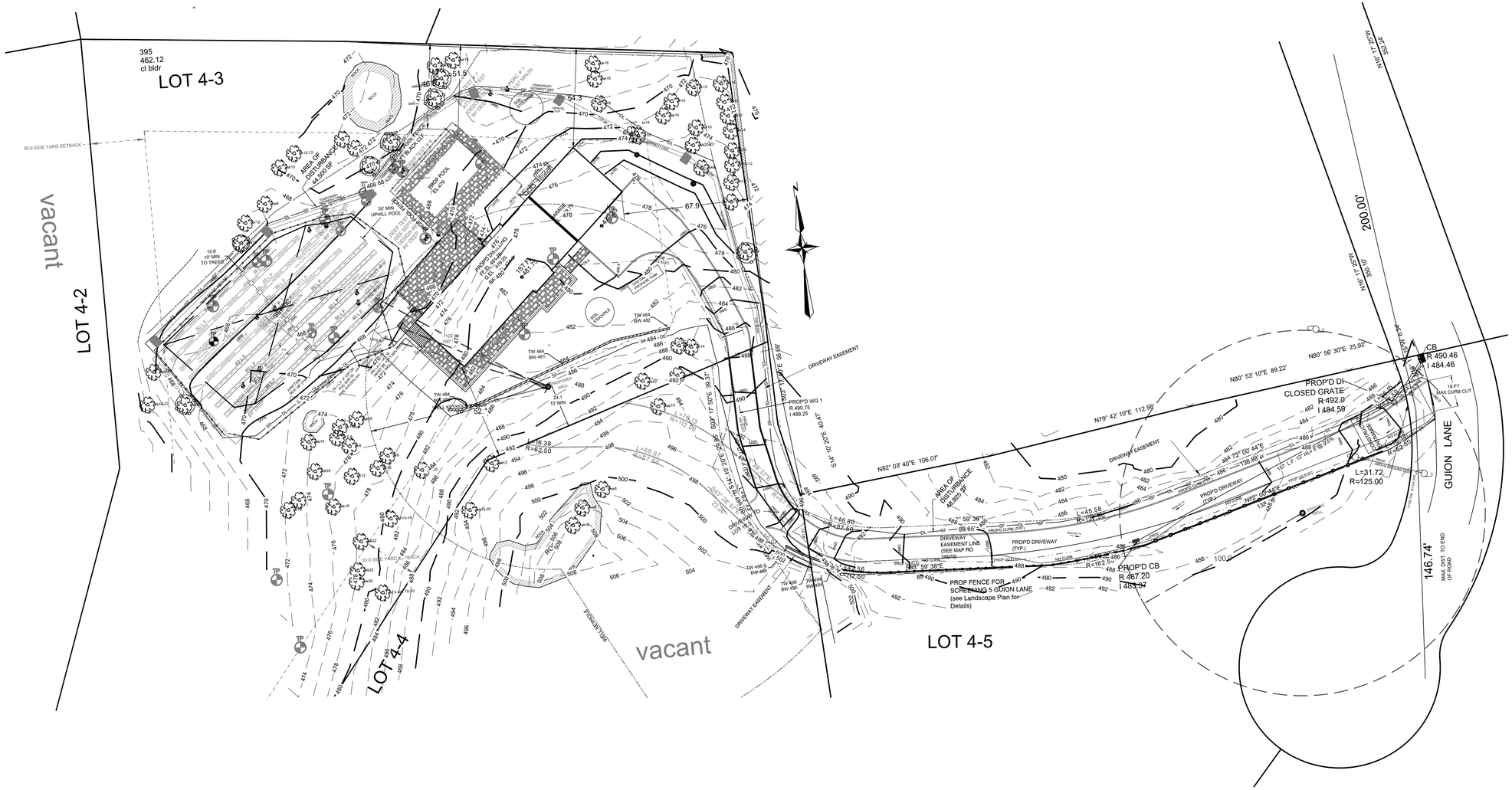
Map is filed in the Westchester County Clerks office, Division of Land Records, on May 16, 2002 as R.O. Map number 26976.

GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER • LAND SURVEYORS
90 NORTH CENTRAL PARK AVE., HARTSDALE, NEW YORK, 10530
(914) 422-0070 FAX 422-3009

REVISED 02/21/2022 COMMENTS PER RESOLUTION
REVISIONS

STATE OF NEW YORK ELIOT SENOR LICENSED PROFESSIONAL ENGINEER 081628

SCALE:	1"=20'
DATE:	MAY 18, 2023
DRAWN BY	CHECKED BY:
GC	ES
DWG NO.	
SW-1	



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- 14TREE SIZE
- TREE TO BE REMOVED
- PERC TEST PT
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- 484 EXIST CONTOUR
- (484) PROP CONTOUR

ZONING DISTRICT:	R-2A
FIRE DISTRICT:	BANKSVILLE FIRE DEPARTMENT
SCHOOL DISTRICT:	BYRAM HILLS SCHOOL DISTRICT
WATERSHED:	INLAND LONG ISLAND SOUND BASIN

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____

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REVISIONS

STATE OF NEW YORK ELIOT SENGOR LICENSED PROFESSIONAL ENGINEER 081626

SCALE:	1"=40'
DATE:	MAY 18, 2023
DRAWN BY	GC
CHECKED BY:	ES
DWG NO.	SW-2

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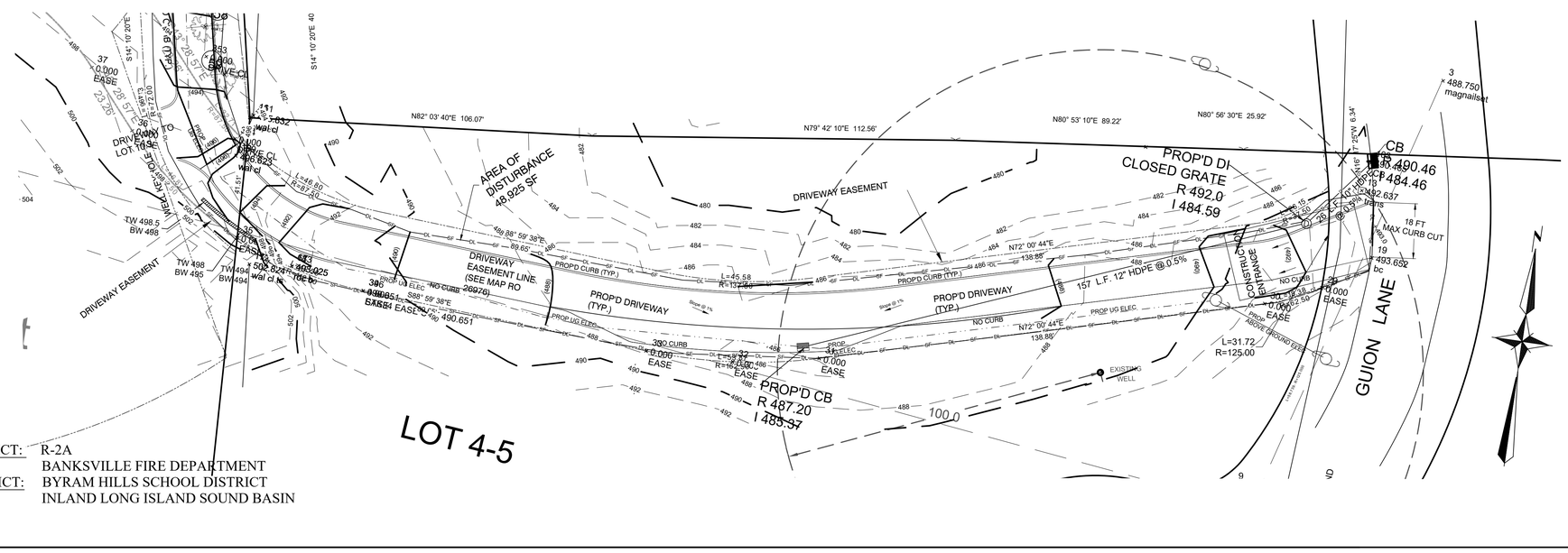

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DRAINAGE PLAN

OWNER: LESLIE COHEN
62 HORSESHOE HILL RD
POUND RIDGE, NY 10576

PROPERTY ADDRESS: 1 GUION LANE
BEDFORD, NY 10506

1 Guion Lane

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(914) 422-0070 FAX 422-3009

REVISIONS

STATE OF NEW YORK ELIOT SENOR LICENSED PROFESSIONAL ENGINEER 091628

SCALE: 1" = 30'
DATE: MAY 5, 2023
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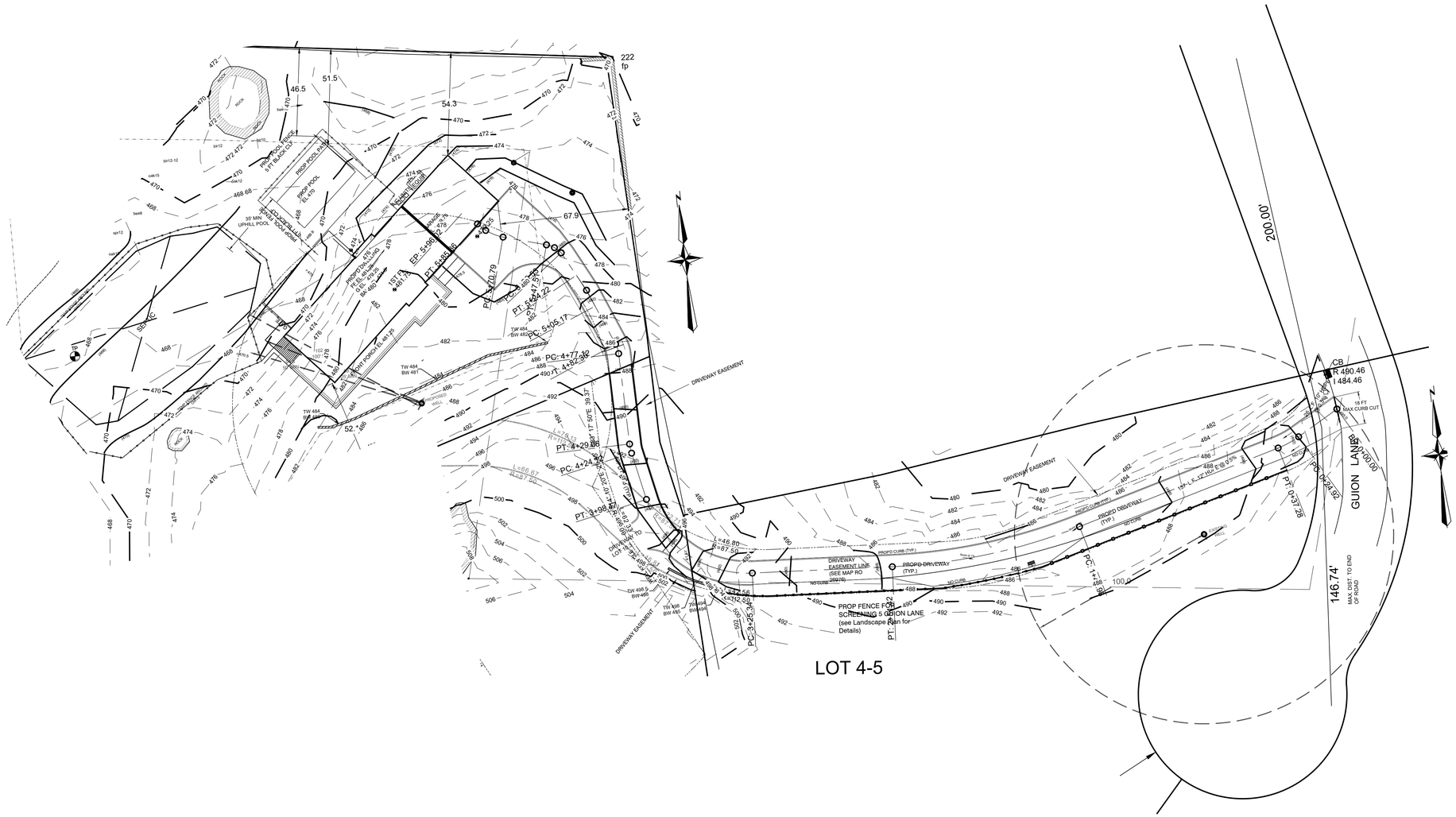
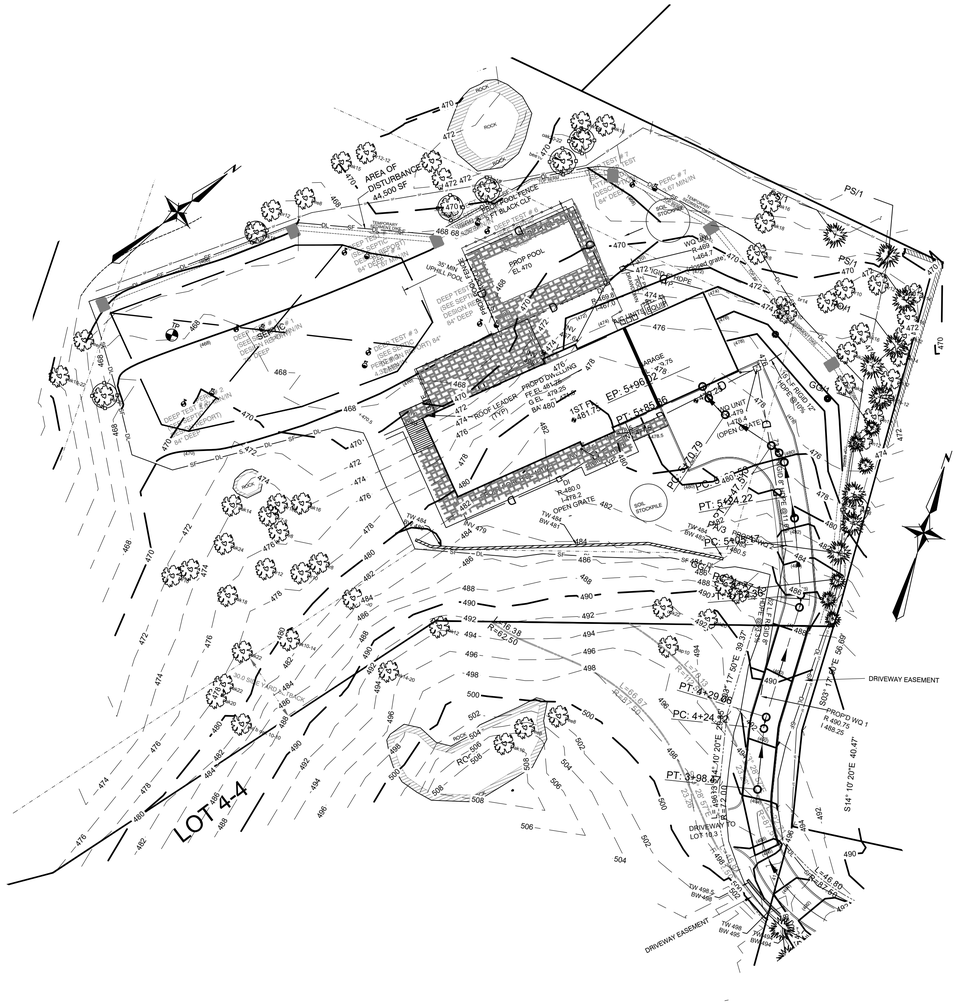
CHECKED BY: ES ES
DWG NO. SW-3

JOB NUMBER: R.O. 26796


LOT 4-5
GUION LANE
200.00'
R 490.46
I 484.46
CB
18 FT MAX CURB CUT
146.74'
MAX. DIST. TO END OF ROAD
PROPOSED DRIVEWAY (TYP.)
PROPOSED CURB (TYP.)
DRIVEWAY EASEMENT LINE (SEE MAP RO 26976)
PROP FENCE FOR SCREENING 5 GUION LANE (see Landscape Plan for Details)
DRIVEWAY EASEMENT
PROPOSED WALL
PROP POOL EL 470
PROP POOL EL 470
PROP POOL FENCE 5 FT BARRIER
35' MIN UPHILL POOL
EXISTING GRADE
PROPOSED GRADE
SILT FENCE /AREA OF DISTURBANCE & CHAIN LINK FENCE (AS REQ'D BY MUNICIPALITY)
TREE TO BE REMOVED
TREE SIZE
EXIST CONTOUR
PROP CONTOUR
TEST PIT
PERC TEST
SEWER MANHOLE
WATER MANHOLE
ELECTRIC MANHOLE
DRAIN MANHOLE
MANHOLE
ELECTRIC BOX
UTILITY POLE
SIGN POST
HYDRANT
WATER VALVE
GAS VALVE
LIGHT POLE
GUY WIRES
TELE. MANHOLE
SEPTIC
222 fp
67.9
54.3
51.5
46.5
52.
PC: 5+05.17
PT: 5+24.22
PC: 4+77.42
PT: 4+98.47
PC: 4+24.42
PT: 4+29.86
PC: 3+25.36
PT: 3+37.56
PC: 1+44.32
PT: 1+59.32
PC: 0+29.92
PT: 0+37.26
R=46.80
L=87.56
R=12.00
L=66.61
R=487.50
L=68.37
R=487.50
L=68.37
R=487.50
L=68.37


LOT 4-4
AREA OF DISTURBANCE 44,590 SF
PROP POOL EL 470
PROP HOUSE
1ST FL 481.75
EP: 5+96.72
PT: 5+85.68
PC: 5+41.22
PT: 5+29.68
PC: 4+24.22
PT: 3+98.68
RC: 506
RC: 508
DRIVEWAY EASEMENT
DRIVEWAY TO LOT 18.1
S14° 10' 20"E 40.47'
S14° 10' 20"E 146.80'
S14° 10' 20"E 58.69'
PROP WO 1 R 490.72 I 488.25
PROP WO 2 R 489.0 I 479.2 OPEN GRATE
PROP WO 3 R 480.0 I 472.5 OPEN GRATE
PROP WO 4 R 480.0 I 472.5 OPEN GRATE
PROP WO 5 R 480.0 I 472.5 OPEN GRATE
WO 1 R 484.1 I 464.1
ROCK FENCE
6' HT BLACK CLF
30' MIN UPHILL ROCK
SILT FENCE
DEEP TEST #1 SEE DEEP TEST LOG BY DEEP
DEEP TEST #2 SEE DEEP TEST LOG BY DEEP
DEEP TEST #3 SEE DEEP TEST LOG BY DEEP
DEEP TEST #4 SEE DEEP TEST LOG BY DEEP
DEEP TEST

PROJECT NO RO26976

PROPERTY IS AT THE DEAD END OF GUION LANE

LEGEND

- UTILITY POLE
- SIGN POST
- HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- GUY WIRES
- TELE. MANHOLE
- SF——SF——SF— SILT FENCE /AREA OF DISTURBANCE & CHAIN LINK FENCE (AS REQ'D BY MUNICIPALITY)
- PERC TEST PT
- TEST PIT TP
- —— 484 —— EXIST CONTOUR
- (484) PROP CONTOUR
- (S) SEWER MANHOLE
- (W) WATER MANHOLE
- (E) ELECTRIC MANHOLE
- (D) DRAIN MANHOLE
- (M) MANHOLE
- ELECTRIC BOX
- — — — 102 — — — EXISTING GRADE
- (102) PROPOSED GRADE
- 14 TREE SIZE
- TREE TO BE REMOVED

ZONING DISTRICT: R-2A
FIRE DISTRICT: BANKSVILLE FIRE DEPARTMENT
SCHOOL DISTRICT: BYRAM HILLS SCHOOL DISTRICT
WATERSHED: INLAND LONG ISLAND SOUND BASIN

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION,
DATED: _____

_____ DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:

_____ DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

EXISTING CONDITIONS
TREE REMOVALS
PLANTING

OWNER: Bedford Single Family LLC
373 Saw Mill River Rd.
Millwood, NY 10546

1 Guion Lane

TAX MAP #:
Sec. 95.01 Block 2 Lot No. 10.3

LOCATED IN THE

TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK

Map is filed in the Westchester County Clerk's office, Division of Land Records, on May 16, 2002 as R.O. Map number 26976.

GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER ● LAND SURVEYORS
90 NORTH CENTRAL PARK AVE., HARTSDALE, NEW YORK, 10530
(914) 422-0070 FAX 422-3009

REVISIONS NOV 19, 2021

STATE OF NEW YORK
ELIOT SENOR
LICENSED PROFESSIONAL ENGINEER
091626

SCALE: 1"=30'
DATE: MAY 18, 2023
DRAWN BY: GC
CHECKED BY: ES
DWG NO. LS-1

P:\DWG Drawings\RO\ro26976.dwg, 5/22/2023 11:49:08 AM, steve

JOB NUMBER: R.O. 26796

GENERAL NOTES

1. Gabriel E. Senor, P.C. is not responsible for construction supervision unless retained under separate contract.
2. Gabriel E. Senor, P.C. must be notified prior to backfilling any storm water system for inspection if The Engineering Dept. will require a final letter of certification from the design engineer for the storm water approval, site work and drainage installation.
3. Any changes made to these plans shall be approved by Gabriel E. Senor, P.C. Any changes must be filed and approved by the appropriate Department as amendments.
4. Gabriel E. Senor, P.C. is not responsible for damages if changes are made and not approved as in item 1 above.
5. All conditions, locations, dimensions and elevations shall be verified by the Contractor or Owner and must report all discrepancies to the Design Engineer prior to the start of construction.
6. All work and materials shall comply with all applicable codes including, but not limited to the following: NYS Building Code, Local Zoning Code, ACI and AISC.
7. The Contractor is responsible for all construction means and methods to implement the designs shown.
8. Safety during construction is the responsibility of the Contractor and shall conform to all Local, State and Federal Agencies' requirements.
9. The Contractor shall apply for and receive all necessary permits to perform the work shown on these plans prior to the start of construction.
10. Final grading shall be sloped away from the building and foundations.
11. Unless noted, all drainage piping on this plan is to be 6" Rigid HDPE; ASTM F810-07 or better.
12. This storm water design plan is not designed to accept footing drains. Refer to Architectural plans for footing drain design. Do not connect footing drains or sump pumps to this surface water drainage system.
13. If the drainage system is to be built in a filled area, the fill should be well drained material with a settling period of one to three months prior to the system installation. Additional percolations are required after the settling period and the system design will be revised as necessary.
14. Proposed Silt Fence to be installed along existing and proposed contours.
15. Orange Construction Fence to be installed along the limits of the proposed disturbance limits line.
16. Roof leaders to be connected to the drainage system with 6" rigid HDPE pipe at 2% min. slope or as shown.
17. The Contractor and all Sub-Contractors must submit a "Contractor Certification Statement" as per section 294-8 of the NYSDEC "Stormwater Pollution Prevention Plan" manual prior to the start of construction.
18. If imported fill material is required, it shall be certified in writing by a New York State licensed Professional Engineer as non-contaminated, clean fill suitable for the intended use. Percolation tests shall be performed by the Design Engineer to demonstrate that the stormwater management practice will draw down the entire water quality volume within 48 hours. The results of the percolation test (s) shall be submitted to the Municipal Engineer for review and approval.
19. All proposed temporary seeding mixture shall be in accordance with the New York State Standards and Specifications for Urban Erosion Control, dated August 2005.
20. New sewer laterals are required for all new construction. Laterals must be extra heavy cast iron or ductile iron pipe or as directed by Municipal Engineer.
21. Connection permits are is required from the Department of Public Works for Sewer, Water, and Storm Water System overflows.
22. All trenches in the Municipality Right of Way must be backfilled with controlled density fill (lc-crete) or as directed by Municipal Engineer.
23. A street opening permit must be obtained from the Municipality, all work in the Right of Way and an inspection performed prior to back filling and final approvals.
24. Replace or re-lay stone curb as directed by Municipal Engineer
25. A non-conversion agreement for the basement in Special Flood Hazard Zone must be signed and filed prior to the issuance of a C. of O. for properties subjected to flooding.
26. Curb cut permit is required from the Department of Public Works. Curb cut maximum width is 18 feet.
27. The contractor shall schedule with the Municipality a rough grading inspection prior to any framing of a building above the first floor braced decking. Excess soils of significance shall be removed and disposed of upon completion of the rough grading.
28. The structures for the storm water management system shall be installed at the earliest date possible when the structure's roof is complete. The contractor shall consult with the Municipality and schedule this work upon completion and inspection of the rough grading activities.
29. The contractor shall secure a Street Opening Permit with the Municipality for all work to take place on the right of way including construction of a new driveway apron, and installation of new service laterals.
30. If necessary, the Contractor shall secure a Tree Removal Permit with the Municipality prior to the commencement of construction activities.
31. Contractor required to provide Dig Safe NY ticket prior to issuance of permits.
32. the septic expansion area will not be cleared and graded at this time.

POST CONSTRUCTION MAINTENANCE

POST CONSTRUCTION MAINTENANCE:

1. Land Owner to visually inspect all stormwater structures for silt and debris during May and November of each year. Any silt and debris to be removed by jet vacuum if within 12" of lowest pipe invert (min 24" sump required.)

2. De-compaction of soils following construction is recommended. This will not only aid in the re-establishment of vegetation following construction, but will help to ensure that lawn area is pervious in the future.

3. Verification of the ownership of any tree designated to be removed near the property line prior to the tree removal.

EROSION CONTROL NOTES

INSTALLATION & MAINTENANCE OF EROSION CONTROL

CONSTRUCTION SCHEDULE
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES
1. Install all erosion control measures prior to start of construction.
2. Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 Days prior to finish.

INSPECTION BY MUNICIPALITY

MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)
1 After any rain causing runoff, Contractor to inspect silt fences, etc. and remove any excessive sediment and inspect stockpiles and correct and problems with seed establishment.
2 Inspections shall be documented in writting and submitted to the appropriate Municipal Agency having jurisdiction.

STOCK PILING OF EXCAVATED MATERIAL
1 Strip Topsoil and Stockpile.
2 Stockpile Excavation Subgrade.
3 Seed piles with 1 lb. total annual rye or remove from site within two days.

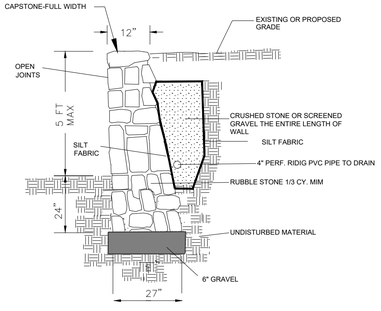
INSPECTION BY MUNICIPALITY

FINAL GRADING
1 Remove unneeded subgrade from site.
2 Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

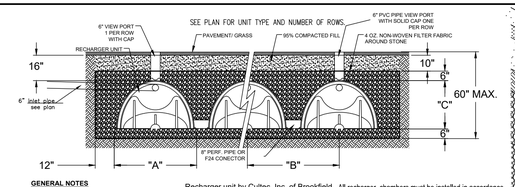
INSPECTION BY MUNICIPALITY

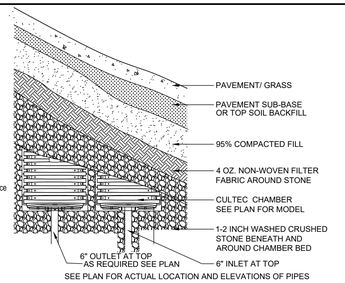
LANDSCAPING
1 Spread topsoil evenly over areas to be seeded. Hand rake level.
2 Broadcast 1 25lb. bag of Jonathan Green "Fastgrow" mix or equal over areas to be seeded.

RETAINING WALL



CULTEC CHAMBERS





SEE PLAN FOR ACTUAL LOCATION AND ELEVATIONS OF PIPES

GENERAL NOTES

Maintain 10 ft. clearance to buildings and private property lines.

This system is only designed to receive runoff from the new additional impervious surfaces.

Do not connect footing drains to this system . Install separate system for the footing drains and sump pumps.

Recharger unit by Cultec, Inc. of Brookfield, ct.
refer to Cultec, Inc.'s current recommended installation guidelines.

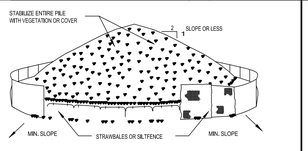
Use recharger 330HD heavy duty for traffic and/or H20 applications.

Recharger 330HD heavy duty units are marked with a color stripe formed into the part along the length of the chamber.

All recharger chambers must be installed in accordance with all applicable local, state and federal regulations.

Unit	A	B	C
Contractor 100	36"	40"	12.5"
Recharger 180HD	36"	39"	20.5"
Recharger 330XLHD	52"	58"	30.5"

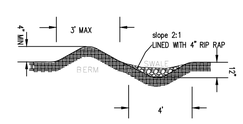
SOIL STOCKPILING (SS)



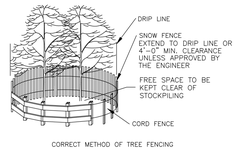
INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILTFENCE.

SWALE/BERM



TREE PROTECTION

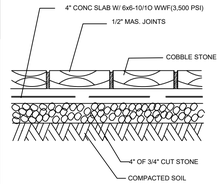


CORRECT METHOD OF TREE FENCING

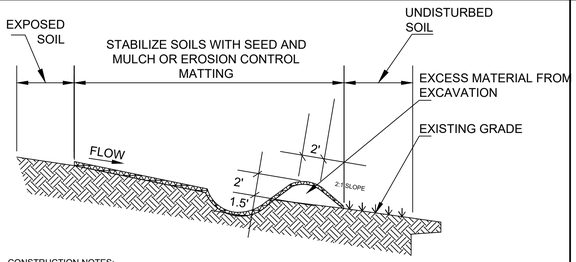
TREE PROTECTION NOTES:

1. THE CONTRACTOR SHALL INSTALL TEMPORARY WOODEN TREE GUARDS AROUND EXISTING TREES WHERE INDICATED, PRIOR TO COMMENCING WORK (SEE DETAIL).
2. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL EXISTING TREES AND THEIR SYSTEMS. ANY DAMAGED TREE, IN THE OPINION OF THE ENGINEER TO THE CONSTRUCTION INSPECTOR AND AT NO ADDITIONAL EXPENSE TO THE COUNTY, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY REMEDIAL WORK SUCH AS ROOT AND TOP PRUNING REQUIRED AND NECESSARY TO PREVENT LOSS OF PLANT MATERIAL. ALL CORRECTIVE WORK SHALL BE ACCORDING TO STANDARD HORTICULTURAL PRACTICE AND SHALL BE PERFORMED BY A NEW YORK STATE LICENSED ARBORIST, AS DIRECTED BY DPW DESIGNATED CONSTRUCTION INSPECTOR.
3. STOCKPILING OR STORAGE OF EQUIPMENT WILL NOT BE PERMITTED WITHIN THE DRIPLINE OF ANY TREE.
4. ANY DAMAGE TO EXISTING TREES DURING CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE, AS DIRECTED, SUCH DAMAGED TREES TO THE SATISFACTION OF DPW, AT THE CONTRACTOR'S EXPENSE.
5. THE TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY WORK AND SHALL REMAIN UNTILL THE END OF ALL WORK.

WALKWAY



SEDIMENT DIKE



CONSTRUCTION NOTES:

1. ALL EARTH FILL WILL BE PLACED ON A STRIPPED FOUNDATION, CONTAIN NO STUMPS OR WOODY MATERIAL, AND BE COMPACTED WITH THE WEIGHT OF THE EXCAVATOR BUCKET.

2. THE SYSTEM SHALL BE USED WITH A MINIMUM 5 FOOT VEGETATED BUFFER ON THE DOWN SLOPE TOE OF THE DIKE OR AN ARTIFICIAL BUFFER OF EROSION CONTROL MATTING.

3. THE ENDS OF THE DIKE SYSTEM SHALL TERMINATE WITH A 90 DEGREE RETURN OF NYS DOT #1A CRUSHED STONE TO FILTER ANY EXCESS FLOW.

4. THE EARTHEN DIKE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION USING AN ANNUAL RYE GRASS MIXTURE AT A RATE OF 1 LB. PER 1,000 SQUARE FEET.

5. NO TRAFFIC WILL BE ALLOWED ON DIKE.

6.DIKE SYSTEM WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.

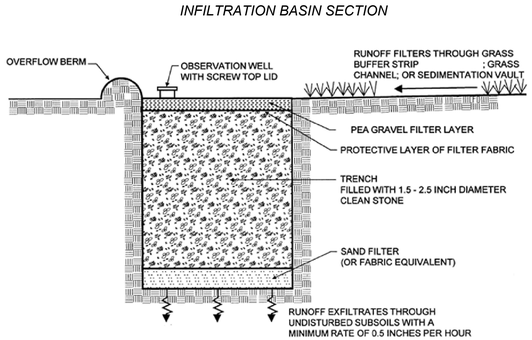
7.SEDIMENT IN THE SYSTEM WILL BE REMOVED WHEN THE INTERIOR TRENCH HAS FILLED TO 75% CAPACITY.

8. SEDIMENT WILL BE DISPOSED OF ON-SITE.

9. UPON STABILIZATION OF THE TRIBUTARY DRAINAGE AREA, THE TRENCH WILL BE FILLED, EXCESS DIKE FILL REMOVED, AND THE AREA GRADED AND STABILIZED.

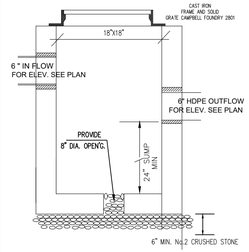
IMPERVIOUS SURFACE

INFILTRATION BASIN SECTION

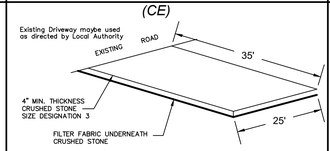


SECTION

WATER QUALITY STRUCTURE (WQ) 18"X18"

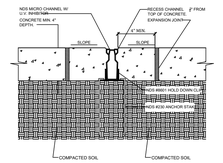


CONSTRUCTION ENTRANCE DETAIL (CE)

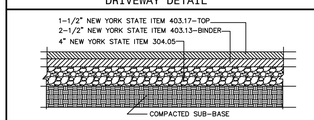


MICRO CHANNEL DRAIN

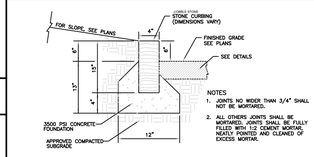
N.T.S.



DRIVEWAY DETAIL

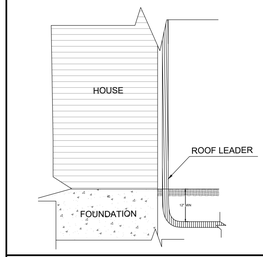


CURB DETAIL (DRIVEWAY)

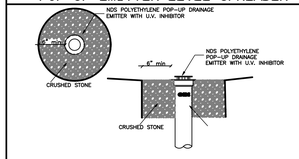


NOTES
1. JOINTS NO WIDER THAN 3/4" SHALL NOT BE MORTARED.
2. ALL OTHER JOINTS SHALL BE RAKED CLEAN AND SHALL BE FULLY FILLED WITH 1:2 CEMENT MORTAR, NEATLY POINTED AND CLEANED OF EXCESS MORTAR.

ROOF LEADER

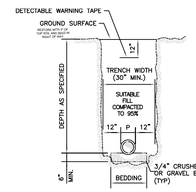


POP-UP EMITTER LEVEL SPREADER



VICINITY MAP

TRENCH RESTORATION DETAIL



NOTE:

LEGEND

- UTILITY POLE
- SIGN POST
- HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- GUY WIRES
- TELE. MANHOLE
- SEWER MANHOLE
- WATER MANHOLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- MANHOLE
- ELECTRIC BOX
- 102 EXISTING GRADE
- (102) PROPOSED GRADE
- SF—SF—SF— SILT FENCE /AREA OF DISTURBANCE & CHAIN LINK FENCE (AS REQ'D BY MUNICIPALITY)
- 14TREE SIZE TREE TO BE REMOVED

NO	DATE	DESC	BY
REVISIONS			

STORMWATER & EROSION CONTROL SYSTEM DESIGN
"STORMWATER DETAILS"

PROPERTY ADDRESS: 1 GUION LANE
BEDFORD, NY 10506

1 Guion Lane

TAX MAP #:
Sec. 95.01 Block 2 Lot No. 10.3

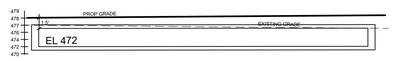
LOCATED IN THE

TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK
Map is filed in the Westchester County Clerks office, Division of Land Records, on May 16, 2002 as R.O. Map number 26976.

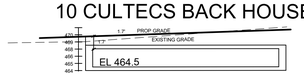
GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER LAND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
● (914) 422-0070 FAX 422-3009

CULTEC CROSS SECTIONS

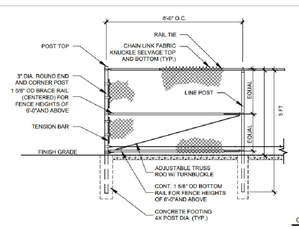
9 CULTECS FRONT HOUSE & DRIVEWAY



10 CULTECS BACK HOUSE



5 FT HIGH BLACK CHAIN LINK POOL FENCE



GENERAL NOTES:
1. FOOTING WIDTH TO BE 4X POST WIDTH.
2. ALL MATERIAL TO CONFORM TO FEDERAL SPEC RR-F-191G (1-25-74).
3. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153.
4. ALL FENCE COMPONENTS TO BE VINYL COATED.
5. VINYL COATING COLOR TO BE BLACK.
6. NO ALUMINUM TIES SHALL BE PERMITTED.
7. POST AND RAIL SIZES MAY REQUIRE MODIFICATION TO MEET SPECIFIC PROJECT REQUIREMENTS.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____

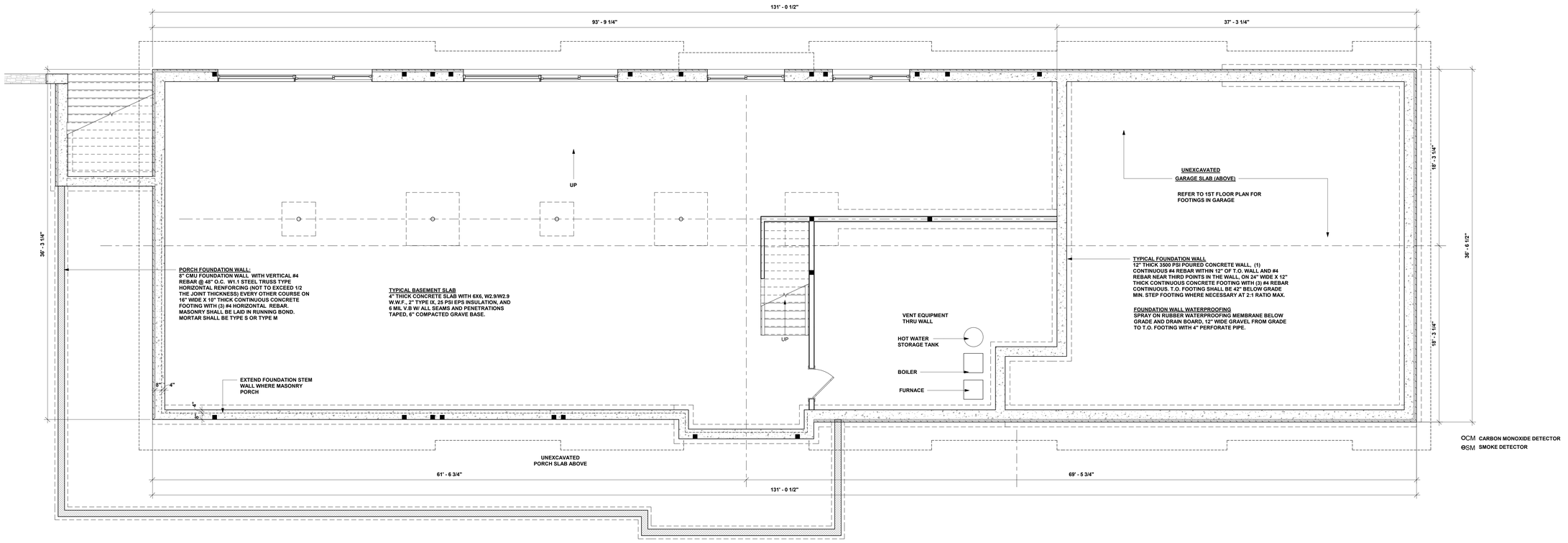
_____ DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:

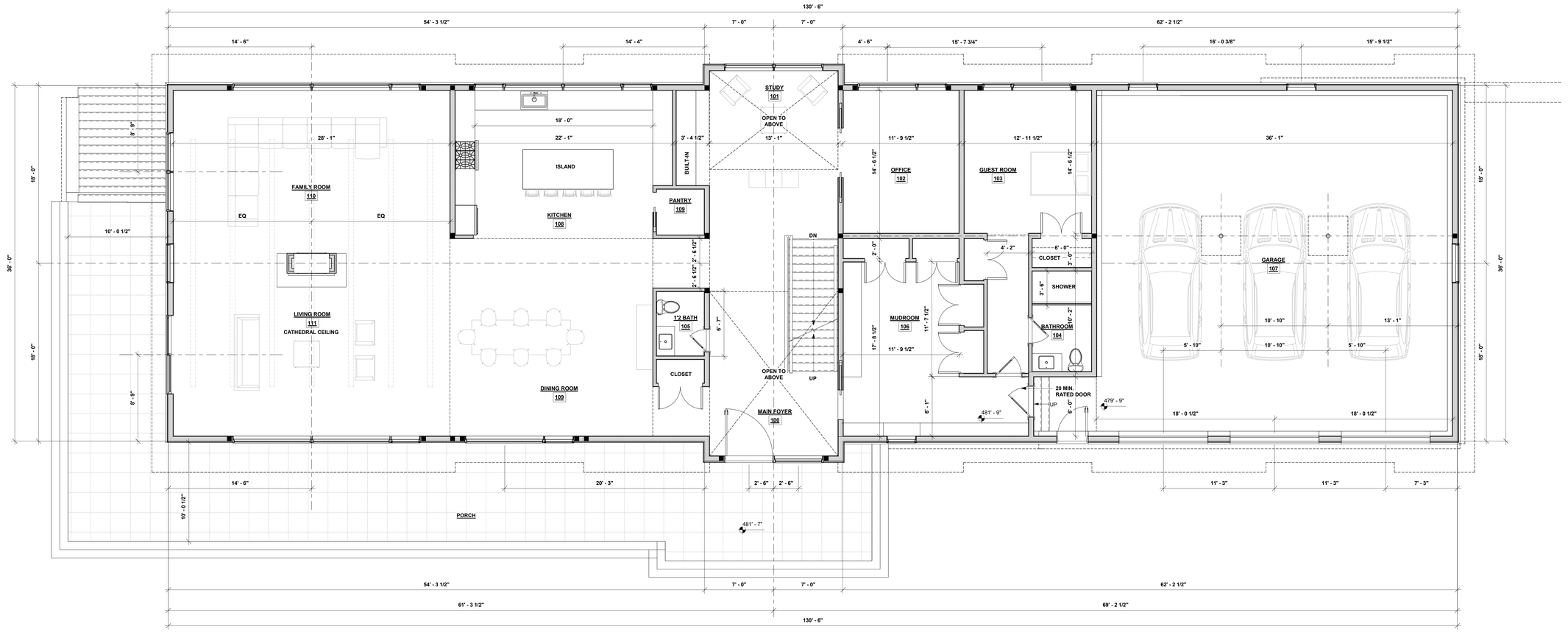
_____ DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

SCALE: NONE	
DATE: MAY 18, 2023	
DRAWN BY: SGA	CHECKED BY: ES.

D-1



2 BASEMENT FLOOR
1/4" = 1'-0"



1 1ST FLOOR
1/4" = 1'-0"

Michael Piccirillo Architecture

No.	DATE:	ISSUE:
1	5/22/23	ISSUED FOR PLAN. BRD.

PROJECT NAME:

SINGLE FAMILY HOUSE

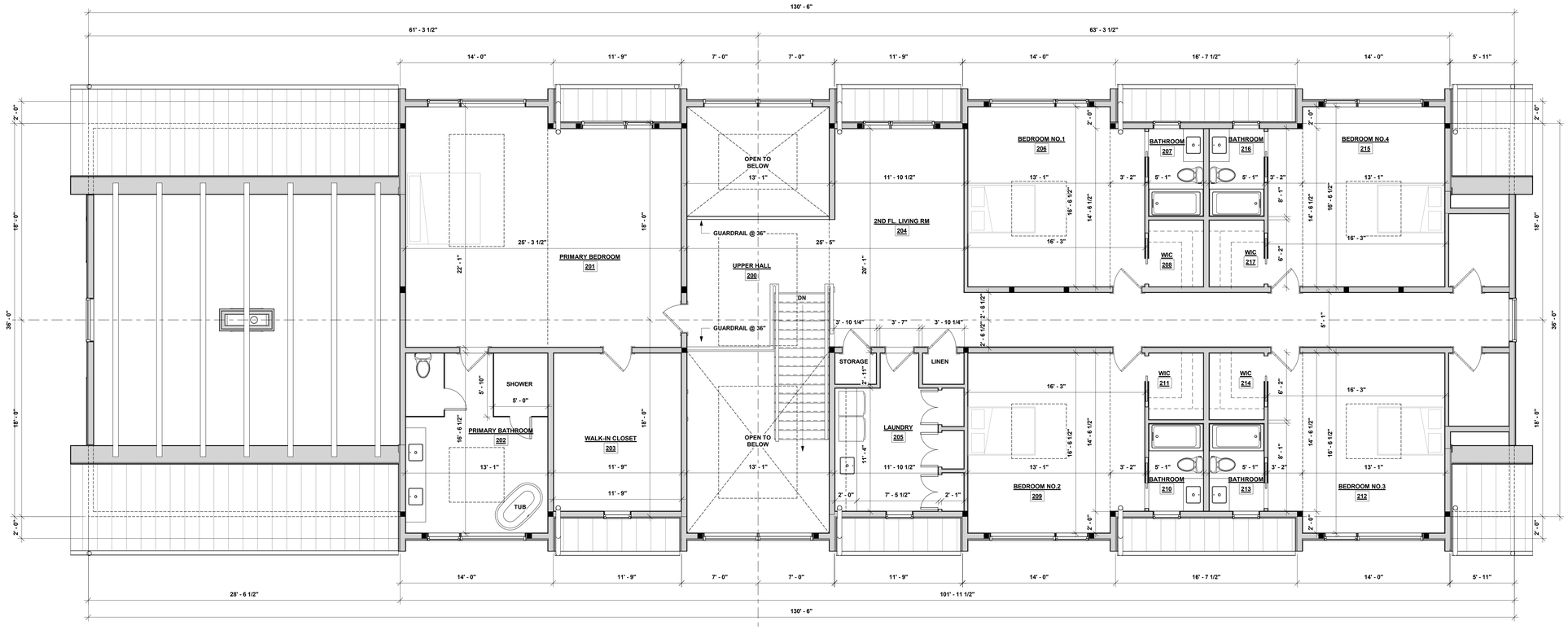
PROJECT ADDRESS:

1 GUION ROAD
NORTH CASTLE, NY

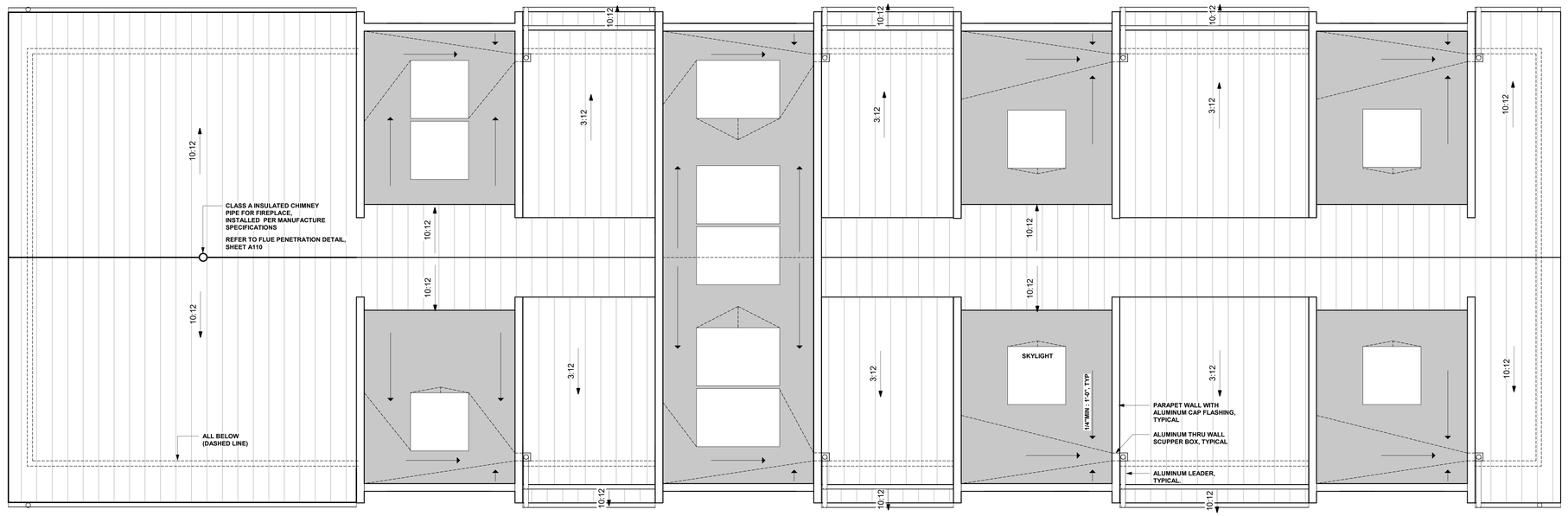
MICHAEL A PICCIRILLO, AIA
345 KEAR STREET, SUITE 203
YORKTOWN HEIGHTS, NY 10598
TELEPHONE: 914-368-9838
FACSIMILE: 914-368-9839
michael@mpiccirilloarchitect.com
www.mpiccirilloarchitect.com

BASEMENT/ 1ST FLOOR PLAN

A101



1 **2ND FLOOR**
1/4" = 1'-0"



2 **ROOF**
1/4" = 1'-0"

EPDM. REFER TO SHEET A110 FOR SPECIFICATIONS

PROVIDE SHOP DRAWINGS FROM EPDM ROOF INSTALLER SHOWING TAPERED INSULATION PITCH AND THICKNESS. COORDINATE SKYLIGHT CURB HEIGHTS WITH TAPERED INSULATION HIEGHTS. MAINTAIN SAME HEIGHT FOR ALL CURBS.

ALUMINUM STANDING SEAM

STANDING SEAM METAL ROOF: (PROVIDE MANUFACTURER COLOR CHIP SAMPLES OF BLACKS AND GREYS)
- 24 GAUGE HIGH STRENGTH GALVALUM STEEL, AZ – 50 OR AZ–55 COATING, PREMIUM MCA CERTIFIED PAINT SYSTEM, MATTE BLACK COLOR, 1 1/2" SEAM HEIGHT, CONCEALED CLIP FASTENING SYSTEM,16" COVERAGE.
- UL 790 CLASS A FIRE RESISTANCE RATING, UL 2218 CLASS 4 HAIL IMPACT RESISTANCE, UL 580 CLASS 90 UPLIFT TEST RATING.
- SUBMIT SPECIFICATION FOR APPROVAL AND PROVIDE COLOR/MATERIAL SAMPLE.

GUTTER:
- 5" ALLUMINUM BOX STYLE GUTTER W/ 4"X5" PLAIN SQUARE ALUMINUM DOWNSPOUT.

MAP
Michael Piccirillo Architecture

No.	DATE:	ISSUE:
1	5/22/23	ISSUED FOR PLAN. BRD.

PROJECT NAME:

SINGLE FAMILY HOUSE

PROJECT ADDRESS:

1 GUION ROAD
NORTH CASTLE, NY

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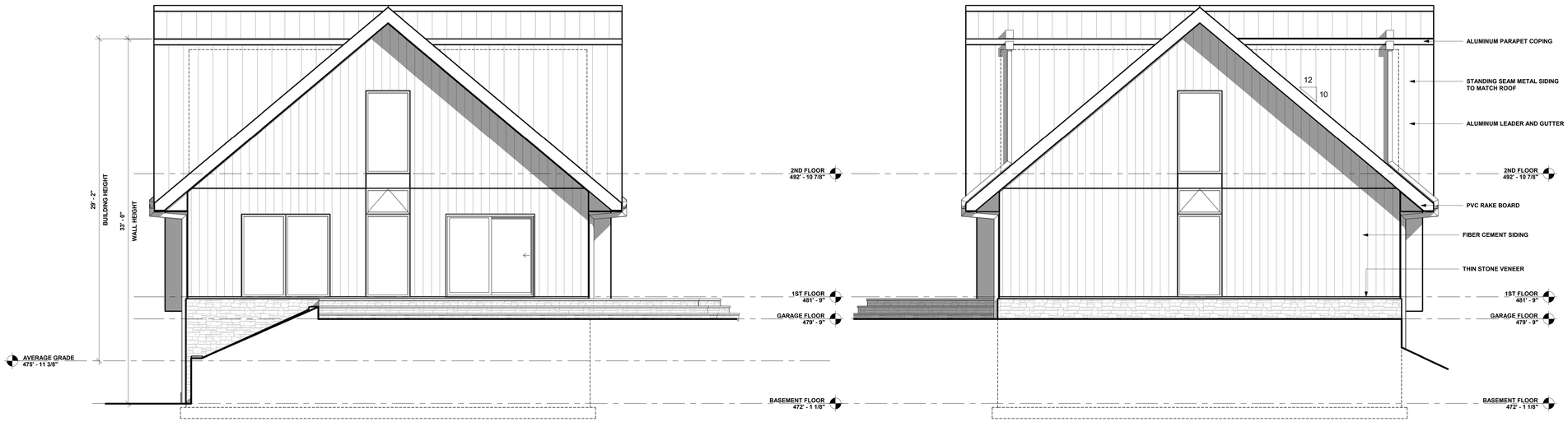
SECOND FLOOR/ ROOF PLAN

A102

1 EAST ELEVATION
1/4" = 1'-0"



4 SOUTH ELEVATION
1/4" = 1'-0"

2 NORTH ELEVATION
1/4" = 1'-0"

3 WEST ELEVATION
1/4" = 1'-0"

Michael Piccirillo Architecture

NOTE:
DO NOT SCALE DRAWINGS. REFER TO WRITTEN MEASUREMENTS FOR ACCURANCY, OR CONTACT ARCHITECT. CONTACT ARCHITECT IF THERE ARE ANY DISCEPENCIES.
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING
IS A VIOLATION OF NEW YORK STATE EDUCATION LAW.

No.	DATE:	ISSUE:
1	5/22/23	ISSUED FOR PLAN. BRD.

PROJECT NAME:

SINGLE FAMILY HOUSE

PROJECT ADDRESS:

1 GUION ROAD
NORTH CASTLE, NY

MICHAEL A PICCIRILLO, AIA
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ELEVATIONS

A200

Drainage Report
1 Guion Lane
North Castle, New York

Eliot Senor P.E & L.S.
May 19, 2023

The analysis was performed utilizing the Soil Conservation Service (SCS) TR-20 and TR-55 methodologies. Rainfall intensity was utilized for 25 Year storm event at 6.41" and 100Year storm event at 9.2" for a 24 hour rainfall in Westchester County. The development is the construction of a single family residence with associated impervious areas. For purposes of calculations all excess surface stormwater generated by the impervious surfaces of the building and the driveway areas shall be stored in a drainage retention structures to be constructed on-site.

25 &100 Year Storm

The Soil Conservation Service's TR-20 method (a more accurate and precise calculation methodology than TR-55) as incorporated in the HydroCAD software was used to determine the capacity of cultec system post-development runoff rates of the building, driveway and pool decking areas.

Table Stormwater Cultec System

	Impervious Surface Area System	Required Number of Cultecs
Front Yard	6172	9 Cultecs
Rear Yard	6034	10 Cultecs

Driveway Pipe Capacity

Pipe flows from driveway to street drainage system were calculated for the 25- & 100-year storm.

Driveway Pipe Capacity

	157 L.F. 10" Hdpe Pipe	26 L.F. 10: Hdpe
25 year Storm	0.41" 49% Full	0.41" 49% Full
100 year Strom	0.52" 62% Full	0.52" 62% Full

The analysis was performed utilizing the Soil Conservation Service (SCS) TR-20 and TR-55 methodologies. Rainfall intensity was utilized for 25 Year storm event at 6.41" and 100Year storm event at 9.2" for a 24 hour rainfall in Westchester County. The development is the construction of a single family residence with associated impervious areas. For purposes of calculations all excess surface stormwater generated by the impervious surfaces of the building and the driveway areas shall be stored in a drainage retention structures to be constructed on-site.

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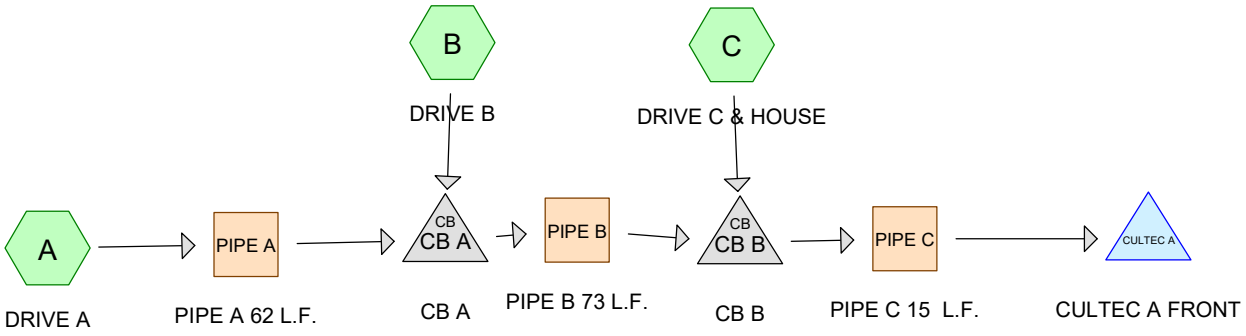
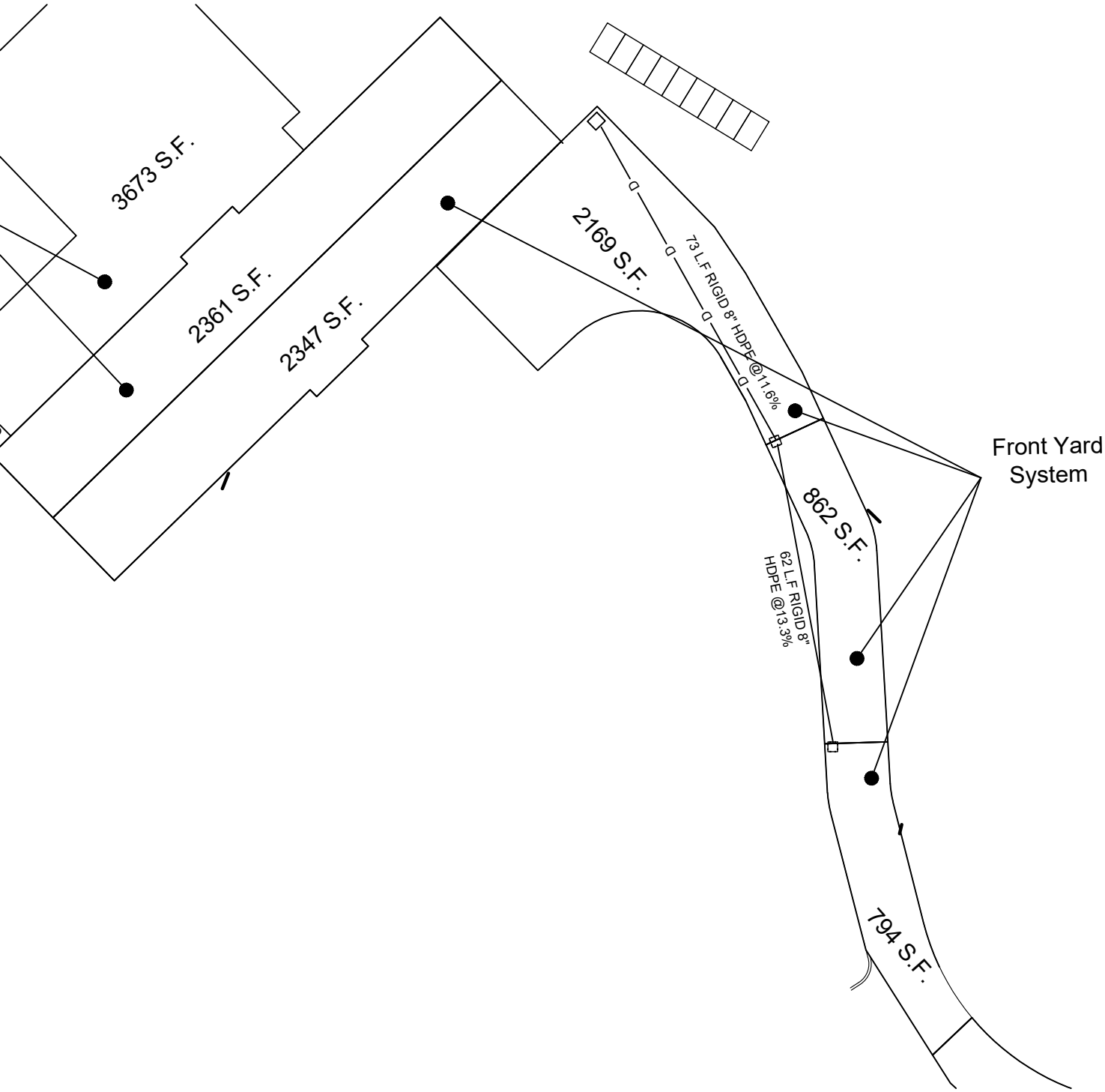
Front Yard System



Subcat Reach Pond Link

Routing Diagram for 1 Guion
Prepared by Gabriel E Senor PC


3673 S.F.
2361 S.F.
2347 S.F.
2169 S.F.
73 L.F RIGID 8" HDPE @11.6%
862 S.F.
62 L.F RIGID 8" HDPE @13.3%
794 S.F.
Front Yard System

Summary for Subcatchment A: DRIVE A

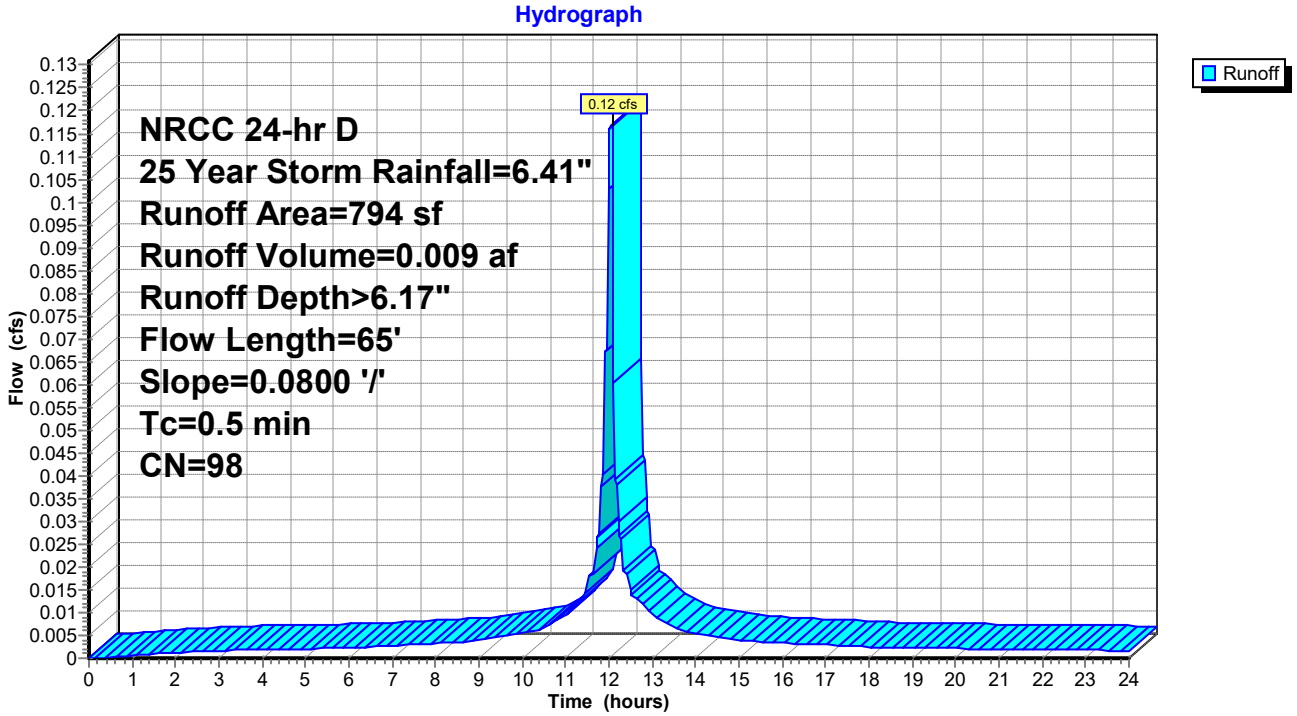
Runoff = 0.12 cfs @ 12.09 hrs, Volume= 0.009 af, Depth> 6.17"
Routed to Reach PIPE A : PIPE A 62 L.F.

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 25 Year Storm Rainfall=6.41"

Area (sf)	CN	Description
794	98	Paved parking, HSG B
794		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	65	0.0800	2.30		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment A: DRIVE A



Hydrograph for Subcatchment A: DRIVE A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.00
2.00	0.19	0.07	0.00
2.50	0.25	0.10	0.00
3.00	0.30	0.14	0.00
3.50	0.36	0.19	0.00
4.00	0.41	0.24	0.00
4.50	0.47	0.29	0.00
5.00	0.53	0.35	0.00
5.50	0.60	0.41	0.00
6.00	0.66	0.47	0.00
6.50	0.73	0.53	0.00
7.00	0.81	0.60	0.00
7.50	0.89	0.68	0.00
8.00	0.98	0.77	0.00
8.50	1.07	0.86	0.00
9.00	1.18	0.96	0.00
9.50	1.30	1.08	0.00
10.00	1.44	1.22	0.01
10.50	1.60	1.38	0.01
11.00	1.82	1.60	0.01
11.50	2.15	1.92	0.01
12.00	3.07	2.84	**0.07**
12.50	4.26	4.03	**0.02**
13.00	4.59	4.35	0.01
13.50	4.81	4.57	0.01
14.00	4.97	4.74	0.01
14.50	5.11	4.88	0.00
15.00	5.23	5.00	0.00
15.50	5.34	5.10	0.00
16.00	5.43	5.20	0.00
16.50	5.52	5.28	0.00
17.00	5.60	5.37	0.00
17.50	5.68	5.44	0.00
18.00	5.75	5.51	0.00
18.50	5.81	5.58	0.00
19.00	5.88	5.64	0.00
19.50	5.94	5.70	0.00
20.00	6.00	5.76	0.00
20.50	6.05	5.82	0.00
21.00	6.11	5.87	0.00
21.50	6.16	5.93	0.00
22.00	6.22	5.98	0.00
22.50	6.27	6.03	0.00
23.00	6.32	6.08	0.00
23.50	6.36	6.13	0.00
24.00	**6.41**	**6.17**	0.00

Summary for Subcatchment B: DRIVE B

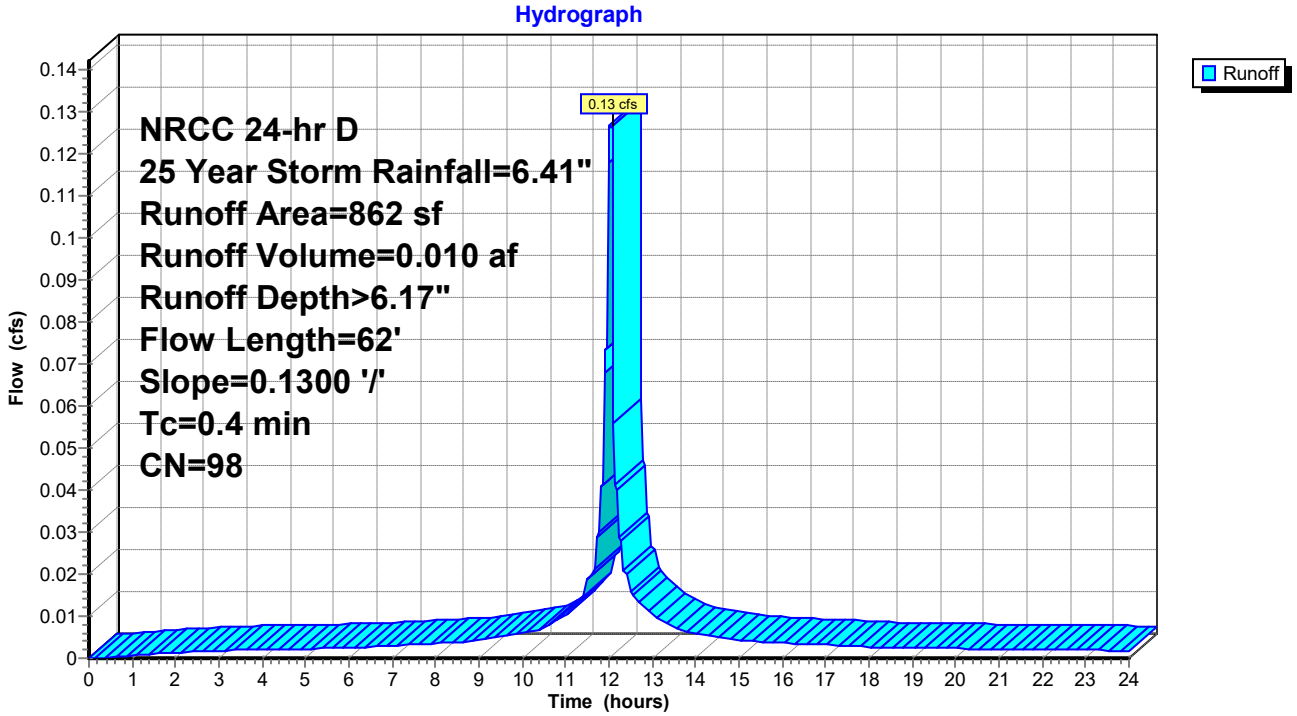
Runoff = 0.13 cfs @ 12.09 hrs, Volume= 0.010 af, Depth> 6.17"
Routed to Pond CB A : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 25 Year Storm Rainfall=6.41"

Area (sf)	CN	Description
862	98	Paved parking, HSG B
862		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	62	0.1300	2.76		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment B: DRIVE B



Hydrograph for Subcatchment B: DRIVE B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.00
2.00	0.19	0.07	0.00
2.50	0.25	0.10	0.00
3.00	0.30	0.14	0.00
3.50	0.36	0.19	0.00
4.00	0.41	0.24	0.00
4.50	0.47	0.29	0.00
5.00	0.53	0.35	0.00
5.50	0.60	0.41	0.00
6.00	0.66	0.47	0.00
6.50	0.73	0.53	0.00
7.00	0.81	0.60	0.00
7.50	0.89	0.68	0.00
8.00	0.98	0.77	0.00
8.50	1.07	0.86	0.00
9.00	1.18	0.96	0.00
9.50	1.30	1.08	0.01
10.00	1.44	1.22	0.01
10.50	1.60	1.38	0.01
11.00	1.82	1.60	0.01
11.50	2.15	1.92	0.02
12.00	3.07	2.84	**0.08**
12.50	4.26	4.03	**0.02**
13.00	4.59	4.35	0.01
13.50	4.81	4.57	0.01
14.00	4.97	4.74	0.01
14.50	5.11	4.88	0.01
15.00	5.23	5.00	0.00
15.50	5.34	5.10	0.00
16.00	5.43	5.20	0.00
16.50	5.52	5.28	0.00
17.00	5.60	5.37	0.00
17.50	5.68	5.44	0.00
18.00	5.75	5.51	0.00
18.50	5.81	5.58	0.00
19.00	5.88	5.64	0.00
19.50	5.94	5.70	0.00
20.00	6.00	5.76	0.00
20.50	6.05	5.82	0.00
21.00	6.11	5.87	0.00
21.50	6.16	5.93	0.00
22.00	6.22	5.98	0.00
22.50	6.27	6.03	0.00
23.00	6.32	6.08	0.00
23.50	6.36	6.13	0.00
24.00	**6.41**	**6.17**	0.00

Summary for Subcatchment C: DRIVE C & HOUSE

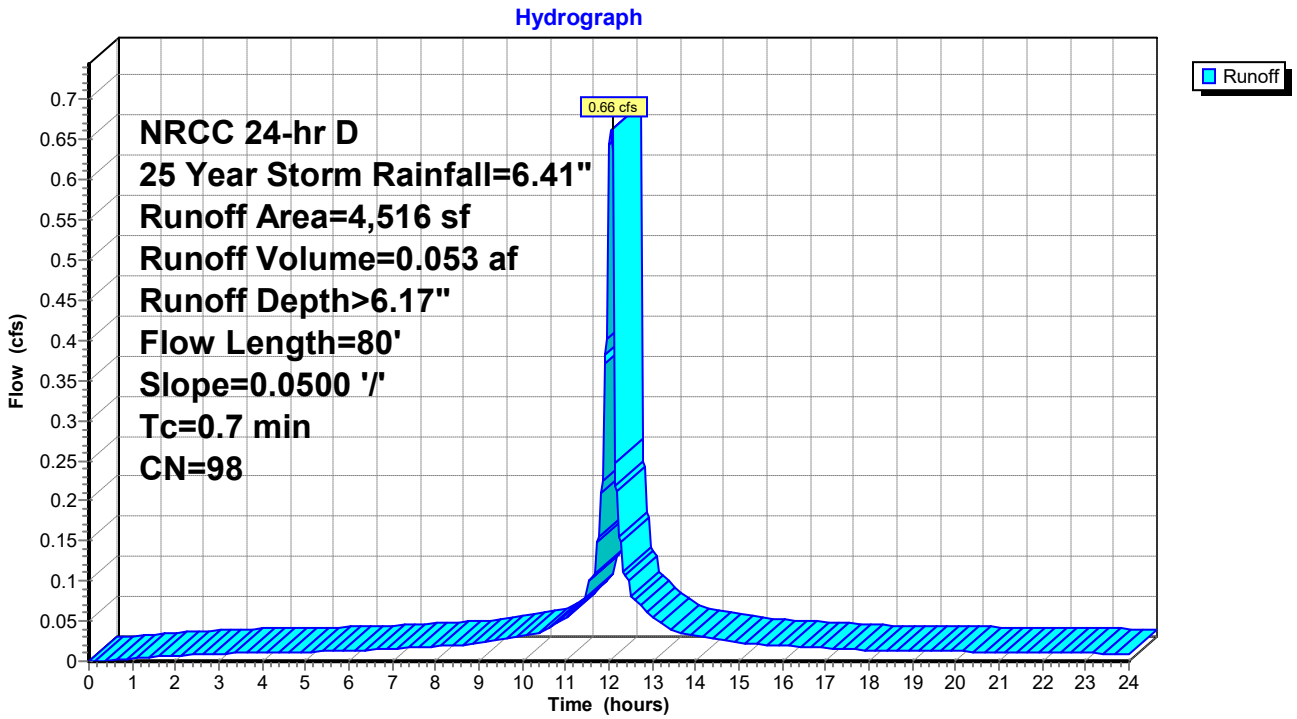
Runoff = 0.66 cfs @ 12.09 hrs, Volume= 0.053 af, Depth> 6.17"
Routed to Pond CB B : CB B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 25 Year Storm Rainfall=6.41"

Area (sf)	CN	Description
4,516	98	Paved parking, HSG B
4,516		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	80	0.0500	1.98		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment C: DRIVE C & HOUSE



Hydrograph for Subcatchment C: DRIVE C & HOUSE

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.01
2.00	0.19	0.07	0.01
2.50	0.25	0.10	0.01
3.00	0.30	0.14	0.01
3.50	0.36	0.19	0.01
4.00	0.41	0.24	0.01
4.50	0.47	0.29	0.01
5.00	0.53	0.35	0.01
5.50	0.60	0.41	0.01
6.00	0.66	0.47	0.01
6.50	0.73	0.53	0.01
7.00	0.81	0.60	0.02
7.50	0.89	0.68	0.02
8.00	0.98	0.77	0.02
8.50	1.07	0.86	0.02
9.00	1.18	0.96	0.02
9.50	1.30	1.08	0.03
10.00	1.44	1.22	0.03
10.50	1.60	1.38	0.04
11.00	1.82	1.60	0.05
11.50	2.15	1.92	0.08
12.00	3.07	2.84	**0.39**
12.50	4.26	4.03	**0.10**
13.00	4.59	4.35	0.06
13.50	4.81	4.57	0.04
14.00	4.97	4.74	0.03
14.50	5.11	4.88	0.03
15.00	5.23	5.00	0.02
15.50	5.34	5.10	0.02
16.00	5.43	5.20	0.02
16.50	5.52	5.28	0.02
17.00	5.60	5.37	0.02
17.50	5.68	5.44	0.02
18.00	5.75	5.51	0.01
18.50	5.81	5.58	0.01
19.00	5.88	5.64	0.01
19.50	5.94	5.70	0.01
20.00	6.00	5.76	0.01
20.50	6.05	5.82	0.01
21.00	6.11	5.87	0.01
21.50	6.16	5.93	0.01
22.00	6.22	5.98	0.01
22.50	6.27	6.03	0.01
23.00	6.32	6.08	0.01
23.50	6.36	6.13	0.01
24.00	**6.41**	**6.17**	0.01

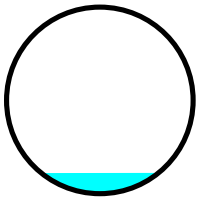
Summary for Reach PIPE A: PIPE A 62 L.F.

Inflow Area = 0.018 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.12 cfs @ 12.09 hrs, Volume= 0.009 af
Outflow = 0.12 cfs @ 12.09 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CB A : CB A

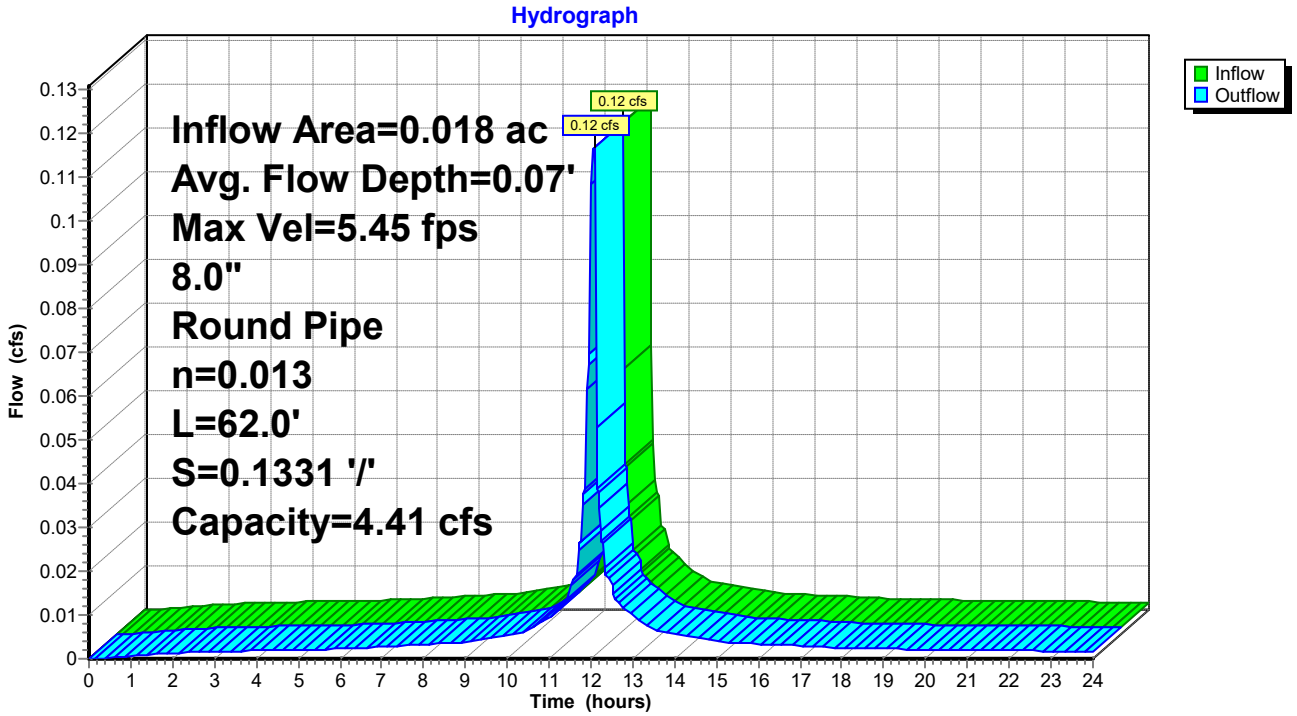
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.45 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.89 fps, Avg. Travel Time= 0.5 min

Peak Storage= 1 cf @ 12.04 hrs
Average Depth at Peak Storage= 0.07' , Surface Width= 0.42'
Bank-Full Depth= 0.67' Flow Area= 0.3 sf, Capacity= 4.41 cfs

8.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 62.0' Slope= 0.1331 '/'
Inlet Invert= 488.75', Outlet Invert= 480.50'



Reach PIPE A: PIPE A 62 L.F.



Hydrograph for Reach PIPE A: PIPE A 62 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	488.75	0.00
0.50	0.00	0	488.75	0.00
1.00	0.00	0	488.76	0.00
1.50	0.00	0	488.76	0.00
2.00	0.00	0	488.76	0.00
2.50	0.00	0	488.76	0.00
3.00	0.00	0	488.76	0.00
3.50	0.00	0	488.76	0.00
4.00	0.00	0	488.76	0.00
4.50	0.00	0	488.76	0.00
5.00	0.00	0	488.76	0.00
5.50	0.00	0	488.76	0.00
6.00	0.00	0	488.76	0.00
6.50	0.00	0	488.76	0.00
7.00	0.00	0	488.76	0.00
7.50	0.00	0	488.76	0.00
8.00	0.00	0	488.76	0.00
8.50	0.00	0	488.76	0.00
9.00	0.00	0	488.76	0.00
9.50	0.00	0	488.77	0.00
10.00	0.01	0	488.77	0.01
10.50	0.01	0	488.77	0.01
11.00	0.01	0	488.77	0.01
11.50	0.01	0	488.78	0.01
12.00	**0.07**	**1**	**488.81**	**0.07**
12.50	**0.02**	**0**	**488.78**	**0.02**
13.00	0.01	0	488.77	0.01
13.50	0.01	0	488.77	0.01
14.00	0.01	0	488.77	0.01
14.50	0.00	0	488.77	0.00
15.00	0.00	0	488.77	0.00
15.50	0.00	0	488.76	0.00
16.00	0.00	0	488.76	0.00
16.50	0.00	0	488.76	0.00
17.00	0.00	0	488.76	0.00
17.50	0.00	0	488.76	0.00
18.00	0.00	0	488.76	0.00
18.50	0.00	0	488.76	0.00
19.00	0.00	0	488.76	0.00
19.50	0.00	0	488.76	0.00
20.00	0.00	0	488.76	0.00
20.50	0.00	0	488.76	0.00
21.00	0.00	0	488.76	0.00
21.50	0.00	0	488.76	0.00
22.00	0.00	0	488.76	0.00
22.50	0.00	0	488.76	0.00
23.00	0.00	0	488.76	0.00
23.50	0.00	0	488.76	0.00
24.00	0.00	0	488.76	0.00

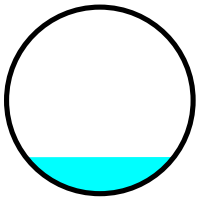
Summary for Reach PIPE B: PIPE B 73 L.F.

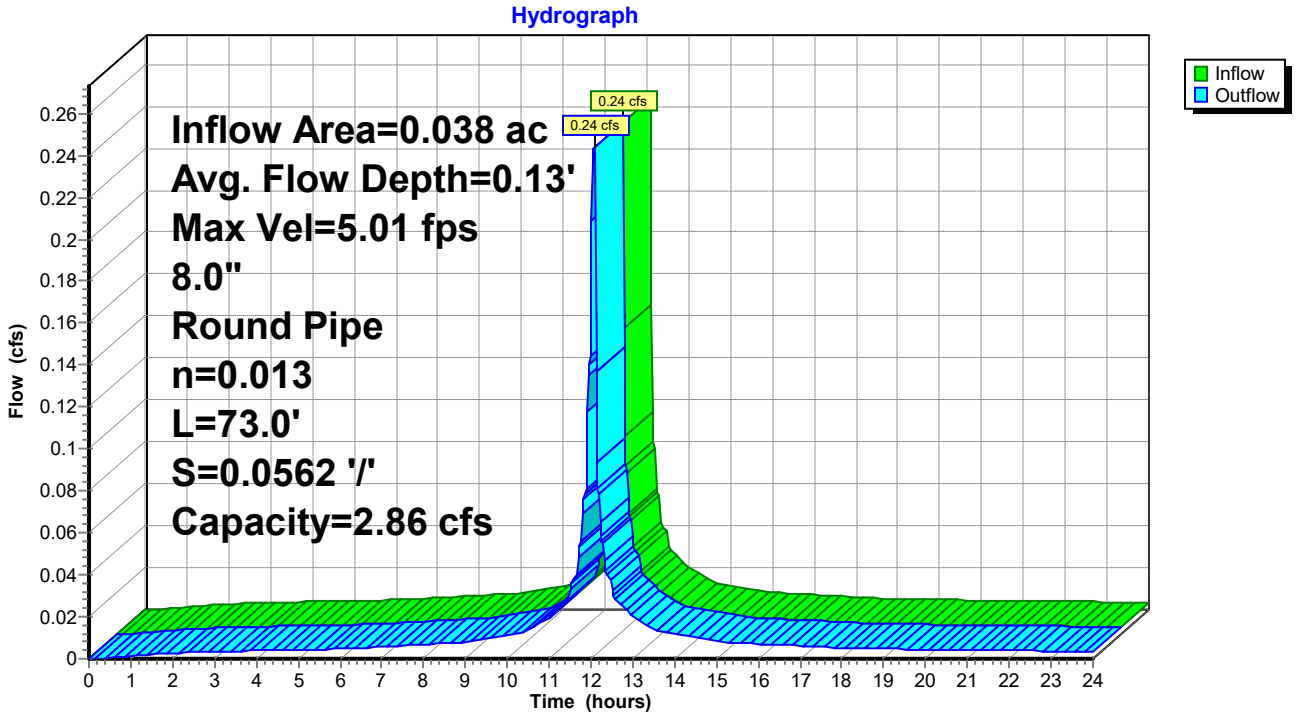
Inflow Area = 0.038 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.24 cfs @ 12.09 hrs, Volume= 0.020 af
Outflow = 0.24 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CB B : CB B

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.01 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.72 fps, Avg. Travel Time= 0.7 min

Peak Storage= 4 cf @ 12.04 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 0.53'
Bank-Full Depth= 0.67' Flow Area= 0.3 sf, Capacity= 2.86 cfs

8.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 73.0' Slope= 0.0562 '/'
Inlet Invert= 480.50', Outlet Invert= 476.40'





Hydrograph for Reach PIPE B: PIPE B 73 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	480.50	0.00
0.50	0.00	0	480.50	0.00
1.00	0.00	0	480.51	0.00
1.50	0.00	0	480.51	0.00
2.00	0.00	0	480.52	0.00
2.50	0.00	0	480.52	0.00
3.00	0.00	0	480.52	0.00
3.50	0.00	0	480.52	0.00
4.00	0.00	0	480.52	0.00
4.50	0.00	0	480.52	0.00
5.00	0.00	0	480.52	0.00
5.50	0.00	0	480.52	0.00
6.00	0.00	0	480.52	0.00
6.50	0.01	0	480.52	0.01
7.00	0.01	0	480.52	0.01
7.50	0.01	0	480.52	0.01
8.00	0.01	0	480.52	0.01
8.50	0.01	0	480.52	0.01
9.00	0.01	0	480.53	0.01
9.50	0.01	0	480.53	0.01
10.00	0.01	0	480.53	0.01
10.50	0.01	0	480.53	0.01
11.00	0.02	1	480.54	0.02
11.50	0.03	1	480.55	0.03
12.00	**0.14**	**2**	**480.60**	**0.14**
12.50	**0.04**	**1**	**480.55**	**0.04**
13.00	0.02	1	480.54	0.02
13.50	0.01	0	480.53	0.01
14.00	0.01	0	480.53	0.01
14.50	0.01	0	480.53	0.01
15.00	0.01	0	480.53	0.01
15.50	0.01	0	480.53	0.01
16.00	0.01	0	480.52	0.01
16.50	0.01	0	480.52	0.01
17.00	0.01	0	480.52	0.01
17.50	0.01	0	480.52	0.01
18.00	0.01	0	480.52	0.01
18.50	0.00	0	480.52	0.00
19.00	0.00	0	480.52	0.00
19.50	0.00	0	480.52	0.00
20.00	0.00	0	480.52	0.00
20.50	0.00	0	480.52	0.00
21.00	0.00	0	480.52	0.00
21.50	0.00	0	480.52	0.00
22.00	0.00	0	480.52	0.00
22.50	0.00	0	480.52	0.00
23.00	0.00	0	480.52	0.00
23.50	0.00	0	480.52	0.00
24.00	0.00	0	480.52	0.00

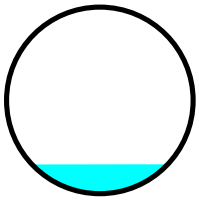
Summary for Reach PIPE C: PIPE C 15 L.F.

Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.91 cfs @ 12.09 hrs, Volume= 0.073 af
Outflow = 0.91 cfs @ 12.08 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CULTEC A : CULTEC A FRONT

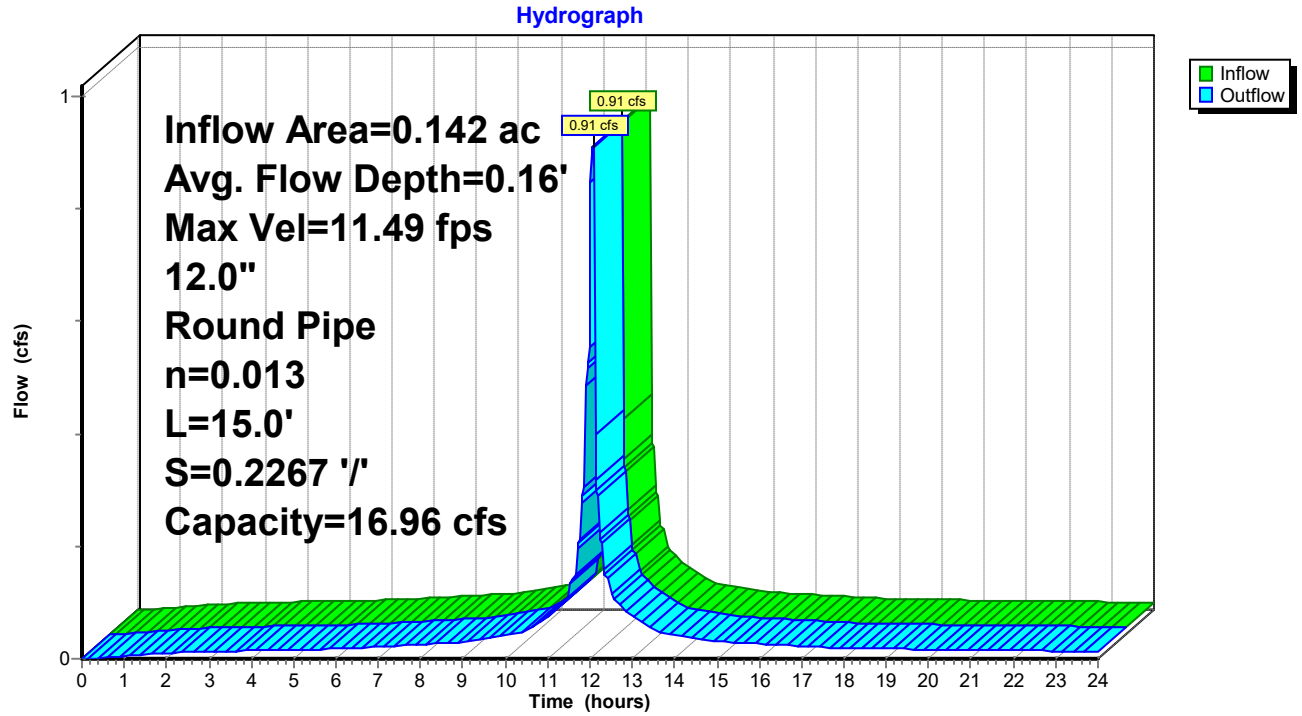
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 11.49 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 3.95 fps, Avg. Travel Time= 0.1 min

Peak Storage= 1 cf @ 12.08 hrs
Average Depth at Peak Storage= 0.16' , Surface Width= 0.73'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 16.96 cfs

12.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 15.0' Slope= 0.2267 '/'
Inlet Invert= 476.40', Outlet Invert= 473.00'



Reach PIPE C: PIPE C 15 L.F.



Hydrograph for Reach PIPE C: PIPE C 15 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	476.40	0.00
0.50	0.00	0	476.40	0.00
1.00	0.00	0	476.41	0.00
1.50	0.01	0	476.42	0.01
2.00	0.01	0	476.42	0.01
2.50	0.01	0	476.42	0.01
3.00	0.01	0	476.42	0.01
3.50	0.01	0	476.42	0.01
4.00	0.01	0	476.42	0.01
4.50	0.02	0	476.42	0.02
5.00	0.02	0	476.42	0.02
5.50	0.02	0	476.42	0.02
6.00	0.02	0	476.42	0.02
6.50	0.02	0	476.43	0.02
7.00	0.02	0	476.43	0.02
7.50	0.02	0	476.43	0.02
8.00	0.03	0	476.43	0.03
8.50	0.03	0	476.43	0.03
9.00	0.03	0	476.43	0.03
9.50	0.04	0	476.43	0.04
10.00	0.04	0	476.44	0.04
10.50	0.05	0	476.44	0.05
11.00	0.07	0	476.45	0.07
11.50	0.11	0	476.46	0.11
12.00	**0.53**	**1**	**476.52**	**0.53**
12.50	**0.14**	**0**	**476.46**	**0.14**
13.00	0.08	0	476.45	0.08
13.50	0.05	0	476.44	0.05
14.00	0.04	0	476.44	0.04
14.50	0.04	0	476.43	0.04
15.00	0.03	0	476.43	0.03
15.50	0.03	0	476.43	0.03
16.00	0.03	0	476.43	0.03
16.50	0.02	0	476.43	0.02
17.00	0.02	0	476.43	0.02
17.50	0.02	0	476.43	0.02
18.00	0.02	0	476.42	0.02
18.50	0.02	0	476.42	0.02
19.00	0.02	0	476.42	0.02
19.50	0.02	0	476.42	0.02
20.00	0.02	0	476.42	0.02
20.50	0.02	0	476.42	0.02
21.00	0.02	0	476.42	0.02
21.50	0.02	0	476.42	0.02
22.00	0.01	0	476.42	0.01
22.50	0.01	0	476.42	0.01
23.00	0.01	0	476.42	0.01
23.50	0.01	0	476.42	0.01
24.00	0.01	0	476.42	0.01

Summary for Pond CB A: CB A

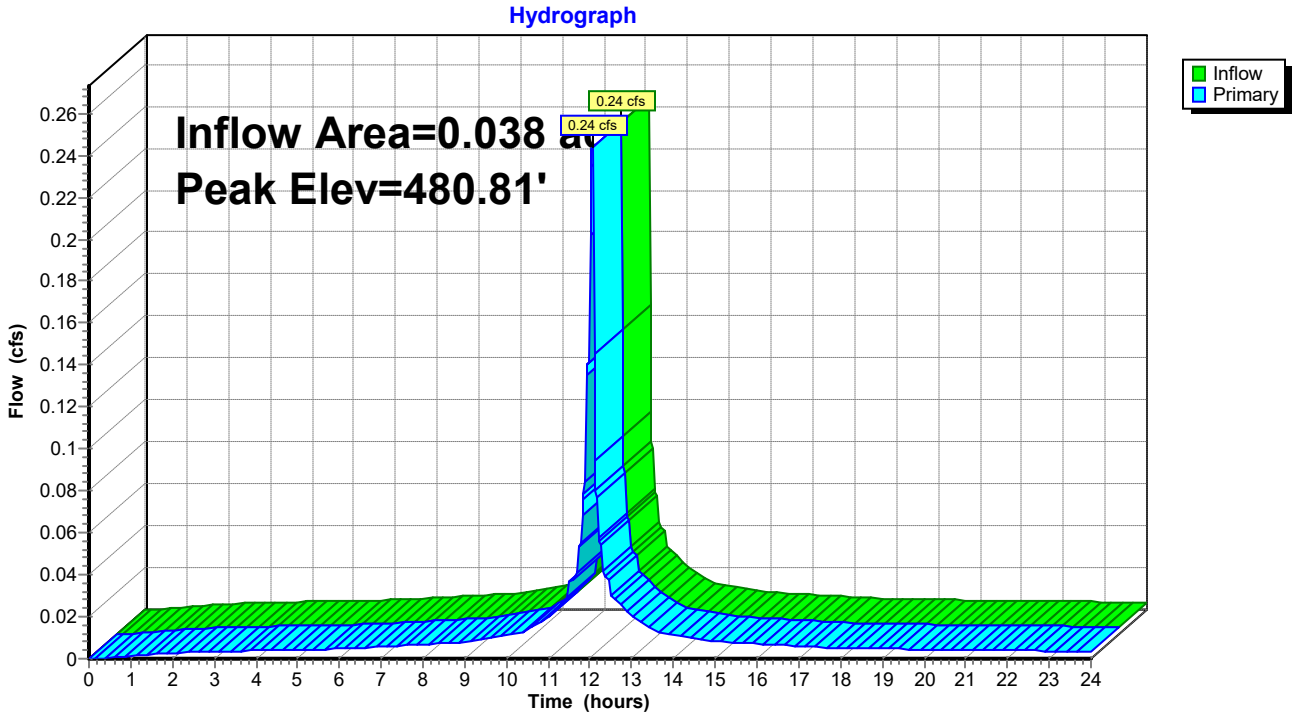
Inflow Area = 0.038 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.24 cfs @ 12.09 hrs, Volume= 0.020 af
Outflow = 0.24 cfs @ 12.09 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.24 cfs @ 12.09 hrs, Volume= 0.020 af
Routed to Reach PIPE B : PIPE B 73 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 480.81' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	480.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.24 cfs @ 12.09 hrs HW=480.81' (Free Discharge)
└**1=Orifice/Grate** (Orifice Controls 0.24 cfs @ 1.90 fps)

Pond CB A: CB A



Hydrograph for Pond CB A: CB A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	480.50	0.00
0.50	0.00	480.51	0.00
1.00	0.00	480.52	0.00
1.50	0.00	480.53	0.00
2.00	0.00	480.53	0.00
2.50	0.00	480.53	0.00
3.00	0.00	480.53	0.00
3.50	0.00	480.53	0.00
4.00	0.00	480.54	0.00
4.50	0.00	480.54	0.00
5.00	0.00	480.54	0.00
5.50	0.00	480.54	0.00
6.00	0.00	480.54	0.00
6.50	0.01	480.54	0.01
7.00	0.01	480.54	0.01
7.50	0.01	480.54	0.01
8.00	0.01	480.55	0.01
8.50	0.01	480.55	0.01
9.00	0.01	480.55	0.01
9.50	0.01	480.56	0.01
10.00	0.01	480.56	0.01
10.50	0.01	480.57	0.01
11.00	0.02	480.58	0.02
11.50	0.03	480.60	0.03
12.00	**0.14**	**480.73**	**0.14**
12.50	**0.04**	**480.61**	**0.04**
13.00	0.02	480.58	0.02
13.50	0.01	480.57	0.01
14.00	0.01	480.56	0.01
14.50	0.01	480.56	0.01
15.00	0.01	480.55	0.01
15.50	0.01	480.55	0.01
16.00	0.01	480.55	0.01
16.50	0.01	480.55	0.01
17.00	0.01	480.54	0.01
17.50	0.01	480.54	0.01
18.00	0.01	480.54	0.01
18.50	0.00	480.54	0.00
19.00	0.00	480.54	0.00
19.50	0.00	480.54	0.00
20.00	0.00	480.54	0.00
20.50	0.00	480.54	0.00
21.00	0.00	480.54	0.00
21.50	0.00	480.54	0.00
22.00	0.00	480.54	0.00
22.50	0.00	480.54	0.00
23.00	0.00	480.53	0.00
23.50	0.00	480.53	0.00
24.00	0.00	480.53	0.00

Summary for Pond CB B: CB B

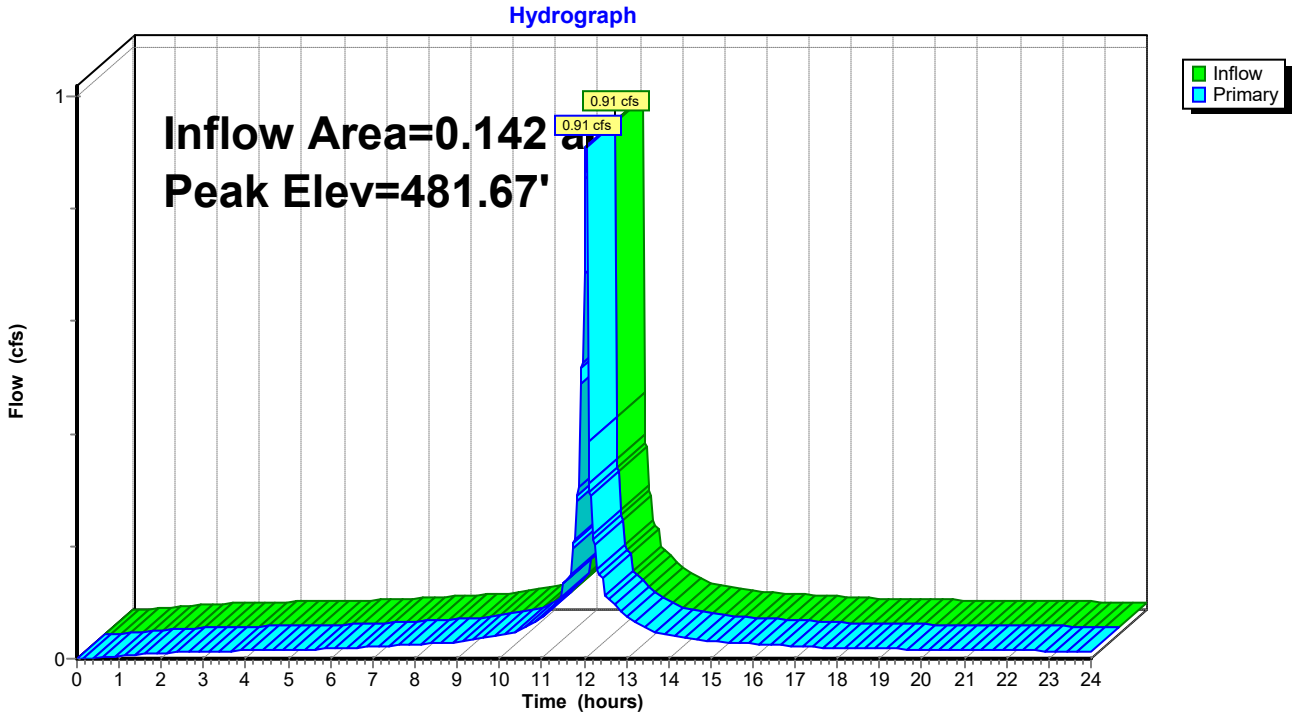
Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.91 cfs @ 12.09 hrs, Volume= 0.073 af
Outflow = 0.91 cfs @ 12.09 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 0.91 cfs @ 12.09 hrs, Volume= 0.073 af
Routed to Reach PIPE C : PIPE C 15 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 481.67' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	480.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.91 cfs @ 12.09 hrs HW=481.67' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.91 cfs @ 4.63 fps)

Pond CB B: CB B



Hydrograph for Pond CB B: CB B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	480.50	0.00
0.50	0.00	480.51	0.00
1.00	0.00	480.54	0.00
1.50	0.01	480.55	0.01
2.00	0.01	480.56	0.01
2.50	0.01	480.56	0.01
3.00	0.01	480.56	0.01
3.50	0.01	480.57	0.01
4.00	0.01	480.57	0.01
4.50	0.02	480.57	0.02
5.00	0.02	480.57	0.02
5.50	0.02	480.57	0.02
6.00	0.02	480.58	0.02
6.50	0.02	480.58	0.02
7.00	0.02	480.58	0.02
7.50	0.02	480.59	0.02
8.00	0.03	480.59	0.03
8.50	0.03	480.60	0.03
9.00	0.03	480.60	0.03
9.50	0.04	480.61	0.04
10.00	0.04	480.62	0.04
10.50	0.05	480.63	0.05
11.00	0.07	480.66	0.07
11.50	0.11	480.70	0.11
12.00	**0.53**	**481.06**	**0.53**
12.50	**0.14**	**480.73**	**0.14**
13.00	0.08	480.67	0.08
13.50	0.05	480.64	0.05
14.00	0.04	480.62	0.04
14.50	0.04	480.61	0.04
15.00	0.03	480.60	0.03
15.50	0.03	480.60	0.03
16.00	0.03	480.59	0.03
16.50	0.02	480.59	0.02
17.00	0.02	480.59	0.02
17.50	0.02	480.58	0.02
18.00	0.02	480.58	0.02
18.50	0.02	480.58	0.02
19.00	0.02	480.58	0.02
19.50	0.02	480.57	0.02
20.00	0.02	480.57	0.02
20.50	0.02	480.57	0.02
21.00	0.02	480.57	0.02
21.50	0.02	480.57	0.02
22.00	0.01	480.57	0.01
22.50	0.01	480.57	0.01
23.00	0.01	480.57	0.01
23.50	0.01	480.57	0.01
24.00	0.01	480.57	0.01

Summary for Pond CULTEC A: CULTEC A FRONT

Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.91 cfs @ 12.08 hrs, Volume= 0.073 af
Outflow = 0.19 cfs @ 12.31 hrs, Volume= 0.073 af, Atten= 80%, Lag= 13.8 min
Discarded = 0.19 cfs @ 12.31 hrs, Volume= 0.073 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 473.25' @ 12.31 hrs Surf.Area= 473 sf Storage= 545 cf

Plug-Flow detention time= 13.9 min calculated for 0.073 af (100% of inflow)
Center-of-Mass det. time= 13.6 min (754.9 - 741.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	471.50'	441 cf	**45.00'W x 10.50'L x 3.54'H Field A** 1,673 cf Overall - 570 cf Embedded = 1,103 cf x 40.0% Voids
#2A	472.00'	570 cf	**Cultec R-330XLHD** x 9 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 9 rows
#3	474.54'	1 cf	**0.50'D x 3.47'H Vertical Cone/Cylinder** x 2
		1,013 cf	Total Available Storage

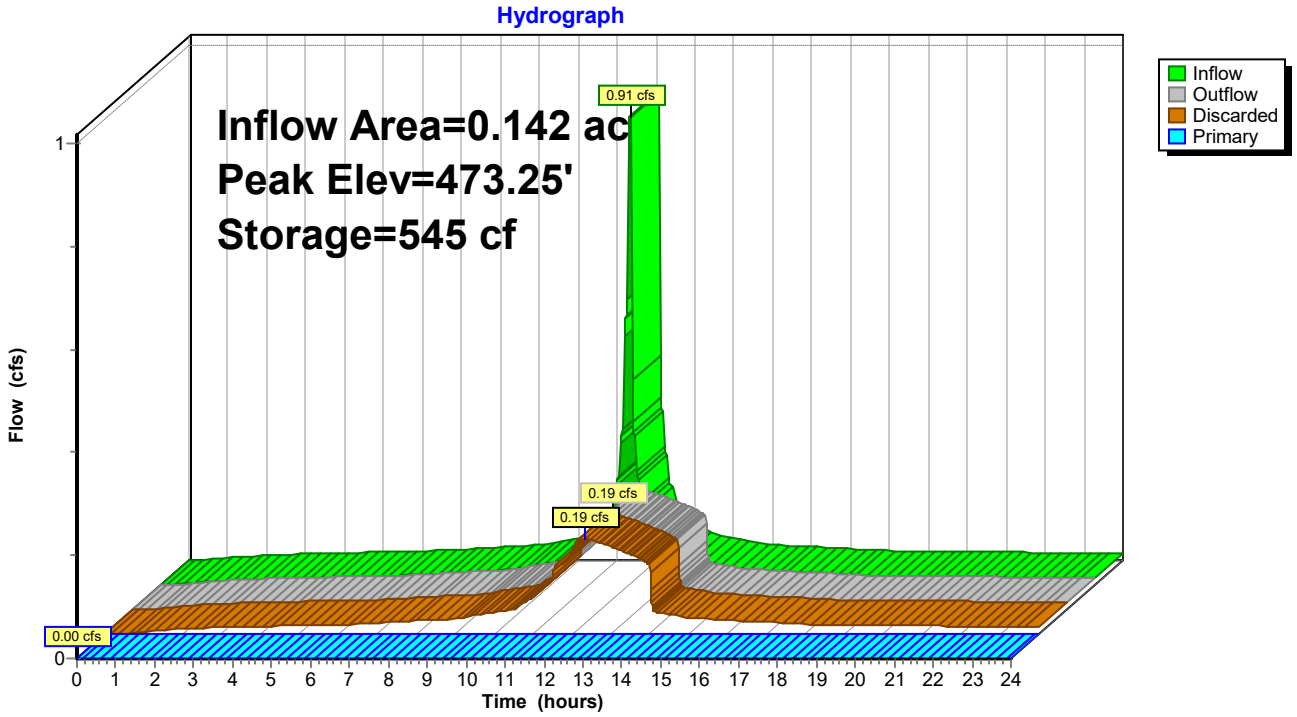
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	471.50'	**12.000 in/hr Exfiltration over Wetted area**
#2	Primary	478.00'	**6.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.19 cfs @ 12.31 hrs HW=473.25' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.19 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=471.50' (Free Discharge)
↑—**2=Orifice/Grate** (Controls 0.00 cfs)

Pond CULTEC A: CULTEC A FRONT



Hydrograph for Pond CULTEC A: CULTEC A FRONT

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	471.50	0.00	0.00	**0.00**
0.50	0.00	0	471.50	0.00	0.00	0.00
1.00	0.00	0	471.50	0.00	0.00	0.00
1.50	0.01	1	471.50	0.01	0.01	0.00
2.00	0.01	1	471.50	0.01	0.01	0.00
2.50	0.01	1	471.51	0.01	0.01	0.00
3.00	0.01	1	471.51	0.01	0.01	0.00
3.50	0.01	1	471.51	0.01	0.01	0.00
4.00	0.01	1	471.51	0.01	0.01	0.00
4.50	0.02	1	471.51	0.02	0.02	0.00
5.00	0.02	1	471.51	0.02	0.02	0.00
5.50	0.02	2	471.51	0.02	0.02	0.00
6.00	0.02	2	471.51	0.02	0.02	0.00
6.50	0.02	2	471.51	0.02	0.02	0.00
7.00	0.02	2	471.51	0.02	0.02	0.00
7.50	0.02	2	471.51	0.02	0.02	0.00
8.00	0.03	2	471.51	0.03	0.03	0.00
8.50	0.03	3	471.51	0.03	0.03	0.00
9.00	0.03	3	471.51	0.03	0.03	0.00
9.50	0.04	3	471.52	0.04	0.04	0.00
10.00	0.04	4	471.52	0.04	0.04	0.00
10.50	0.05	4	471.52	0.05	0.05	0.00
11.00	0.07	7	471.53	0.07	0.07	0.00
11.50	0.11	10	471.55	0.11	0.11	0.00
12.00	**0.53**	**214**	**472.32**	**0.16**	**0.16**	0.00
12.50	**0.14**	**519**	**473.17**	**0.18**	**0.18**	0.00
13.00	0.08	372	472.76	0.17	0.17	0.00
13.50	0.05	193	472.27	0.15	0.15	0.00
14.00	0.04	16	471.58	0.13	0.13	0.00
14.50	0.04	3	471.52	0.04	0.04	0.00
15.00	0.03	3	471.52	0.03	0.03	0.00
15.50	0.03	3	471.51	0.03	0.03	0.00
16.00	0.03	2	471.51	0.03	0.03	0.00
16.50	0.02	2	471.51	0.02	0.02	0.00
17.00	0.02	2	471.51	0.02	0.02	0.00
17.50	0.02	2	471.51	0.02	0.02	0.00
18.00	0.02	2	471.51	0.02	0.02	0.00
18.50	0.02	2	471.51	0.02	0.02	0.00
19.00	0.02	2	471.51	0.02	0.02	0.00
19.50	0.02	2	471.51	0.02	0.02	0.00
20.00	0.02	2	471.51	0.02	0.02	0.00
20.50	0.02	1	471.51	0.02	0.02	0.00
21.00	0.02	1	471.51	0.02	0.02	0.00
21.50	0.02	1	471.51	0.02	0.02	0.00
22.00	0.01	1	471.51	0.01	0.01	0.00
22.50	0.01	1	471.51	0.01	0.01	0.00
23.00	0.01	1	471.51	0.01	0.01	0.00
23.50	0.01	1	471.51	0.01	0.01	0.00
24.00	0.01	1	471.51	0.01	0.01	0.00

Summary for Subcatchment A: DRIVE A

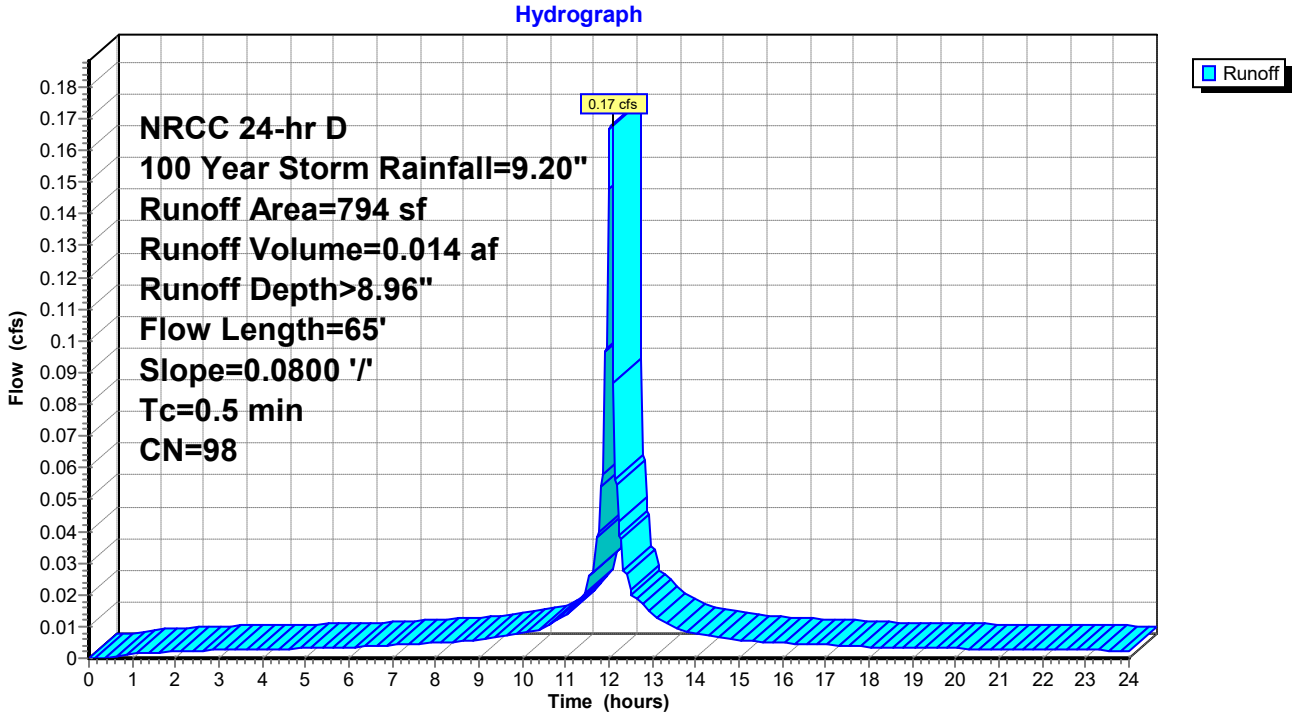
Runoff = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af, Depth> 8.96"
Routed to Reach PIPE A : PIPE A 62 L.F.

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 100 Year Storm Rainfall=9.20"

Area (sf)	CN	Description
794	98	Paved parking, HSG B
794		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.5	65	0.0800	2.30		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment A: DRIVE A



Hydrograph for Subcatchment A: DRIVE A

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.00
1.50	0.20	0.07	0.00
2.00	0.28	0.13	0.00
2.50	0.35	0.19	0.00
3.00	0.43	0.26	0.00
3.50	0.51	0.33	0.00
4.00	0.59	0.40	0.00
4.50	0.68	0.48	0.00
5.00	0.77	0.57	0.00
5.50	0.86	0.65	0.00
6.00	0.95	0.74	0.00
6.50	1.05	0.84	0.00
7.00	1.16	0.94	0.00
7.50	1.27	1.06	0.00
8.00	1.40	1.18	0.00
8.50	1.54	1.32	0.01
9.00	1.69	1.47	0.01
9.50	1.86	1.64	0.01
10.00	2.06	1.84	0.01
10.50	2.30	2.07	0.01
11.00	2.61	2.38	0.01
11.50	3.08	2.85	0.02
12.00	4.41	4.17	**0.10**
12.50	6.12	5.88	**0.03**
13.00	6.59	6.35	0.01
13.50	6.90	6.66	0.01
14.00	7.14	6.90	0.01
14.50	7.34	7.10	0.01
15.00	7.51	7.27	0.01
15.50	7.66	7.42	0.01
16.00	7.80	7.56	0.00
16.50	7.93	7.69	0.00
17.00	8.04	7.80	0.00
17.50	8.15	7.91	0.00
18.00	8.25	8.01	0.00
18.50	8.34	8.10	0.00
19.00	8.43	8.19	0.00
19.50	8.52	8.28	0.00
20.00	8.61	8.37	0.00
20.50	8.69	8.45	0.00
21.00	8.77	8.53	0.00
21.50	8.85	8.61	0.00
22.00	8.92	8.68	0.00
22.50	9.00	8.76	0.00
23.00	9.07	8.83	0.00
23.50	9.13	8.89	0.00
24.00	**9.20**	**8.96**	0.00

Summary for Subcatchment B: DRIVE B

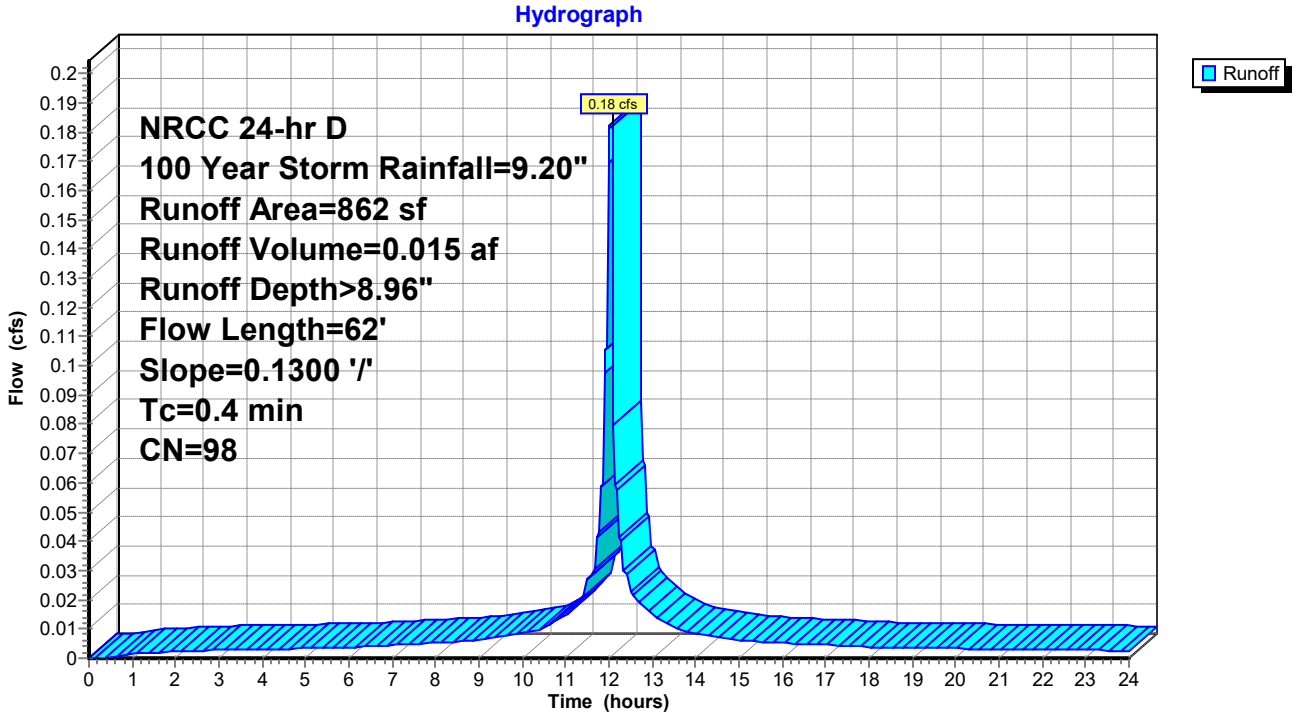
Runoff = 0.18 cfs @ 12.09 hrs, Volume= 0.015 af, Depth> 8.96"
Routed to Pond CB A : CB A

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 100 Year Storm Rainfall=9.20"

Area (sf)	CN	Description
862	98	Paved parking, HSG B
862		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	62	0.1300	2.76		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment B: DRIVE B



Hydrograph for Subcatchment B: DRIVE B

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.00
1.50	0.20	0.07	0.00
2.00	0.28	0.13	0.00
2.50	0.35	0.19	0.00
3.00	0.43	0.26	0.00
3.50	0.51	0.33	0.00
4.00	0.59	0.40	0.00
4.50	0.68	0.48	0.00
5.00	0.77	0.57	0.00
5.50	0.86	0.65	0.00
6.00	0.95	0.74	0.00
6.50	1.05	0.84	0.00
7.00	1.16	0.94	0.00
7.50	1.27	1.06	0.00
8.00	1.40	1.18	0.01
8.50	1.54	1.32	0.01
9.00	1.69	1.47	0.01
9.50	1.86	1.64	0.01
10.00	2.06	1.84	0.01
10.50	2.30	2.07	0.01
11.00	2.61	2.38	0.01
11.50	3.08	2.85	0.02
12.00	4.41	4.17	**0.11**
12.50	6.12	5.88	**0.03**
13.00	6.59	6.35	0.02
13.50	6.90	6.66	0.01
14.00	7.14	6.90	0.01
14.50	7.34	7.10	0.01
15.00	7.51	7.27	0.01
15.50	7.66	7.42	0.01
16.00	7.80	7.56	0.01
16.50	7.93	7.69	0.00
17.00	8.04	7.80	0.00
17.50	8.15	7.91	0.00
18.00	8.25	8.01	0.00
18.50	8.34	8.10	0.00
19.00	8.43	8.19	0.00
19.50	8.52	8.28	0.00
20.00	8.61	8.37	0.00
20.50	8.69	8.45	0.00
21.00	8.77	8.53	0.00
21.50	8.85	8.61	0.00
22.00	8.92	8.68	0.00
22.50	9.00	8.76	0.00
23.00	9.07	8.83	0.00
23.50	9.13	8.89	0.00
24.00	**9.20**	**8.96**	0.00

Summary for Subcatchment C: DRIVE C & HOUSE

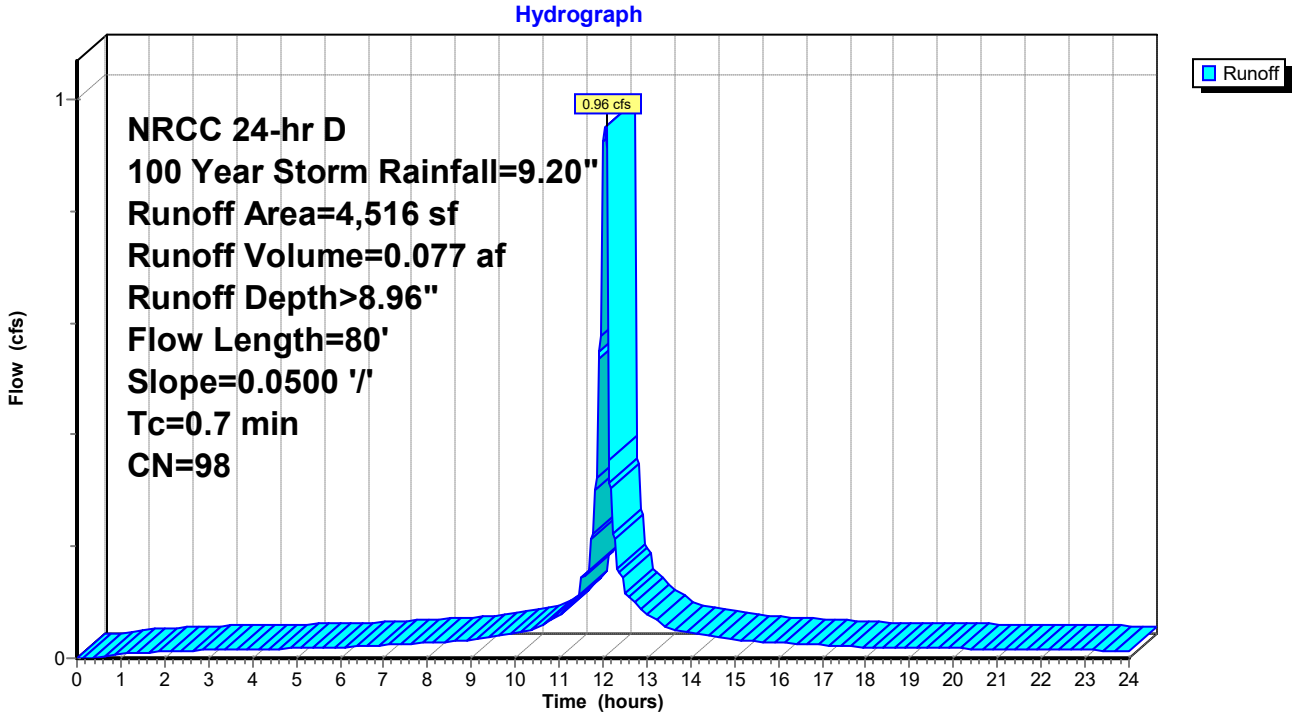
Runoff = 0.96 cfs @ 12.09 hrs, Volume= 0.077 af, Depth> 8.96"
Routed to Pond CB B : CB B

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 100 Year Storm Rainfall=9.20"

Area (sf)	CN	Description
4,516	98	Paved parking, HSG B
4,516		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	80	0.0500	1.98		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment C: DRIVE C & HOUSE



Hydrograph for Subcatchment C: DRIVE C & HOUSE

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.01
1.50	0.20	0.07	0.01
2.00	0.28	0.13	0.01
2.50	0.35	0.19	0.01
3.00	0.43	0.26	0.01
3.50	0.51	0.33	0.02
4.00	0.59	0.40	0.02
4.50	0.68	0.48	0.02
5.00	0.77	0.57	0.02
5.50	0.86	0.65	0.02
6.00	0.95	0.74	0.02
6.50	1.05	0.84	0.02
7.00	1.16	0.94	0.02
7.50	1.27	1.06	0.03
8.00	1.40	1.18	0.03
8.50	1.54	1.32	0.03
9.00	1.69	1.47	0.03
9.50	1.86	1.64	0.04
10.00	2.06	1.84	0.04
10.50	2.30	2.07	0.05
11.00	2.61	2.38	0.07
11.50	3.08	2.85	0.11
12.00	4.41	4.17	**0.56**
12.50	6.12	5.88	**0.15**
13.00	6.59	6.35	0.08
13.50	6.90	6.66	0.06
14.00	7.14	6.90	0.05
14.50	7.34	7.10	0.04
15.00	7.51	7.27	0.03
15.50	7.66	7.42	0.03
16.00	7.80	7.56	0.03
16.50	7.93	7.69	0.03
17.00	8.04	7.80	0.02
17.50	8.15	7.91	0.02
18.00	8.25	8.01	0.02
18.50	8.34	8.10	0.02
19.00	8.43	8.19	0.02
19.50	8.52	8.28	0.02
20.00	8.61	8.37	0.02
20.50	8.69	8.45	0.02
21.00	8.77	8.53	0.02
21.50	8.85	8.61	0.02
22.00	8.92	8.68	0.02
22.50	9.00	8.76	0.02
23.00	9.07	8.83	0.01
23.50	9.13	8.89	0.01
24.00	**9.20**	**8.96**	0.01

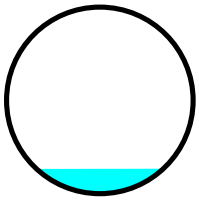
Summary for Reach PIPE A: PIPE A 62 L.F.

Inflow Area = 0.018 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af
Outflow = 0.17 cfs @ 12.09 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CB A : CB A

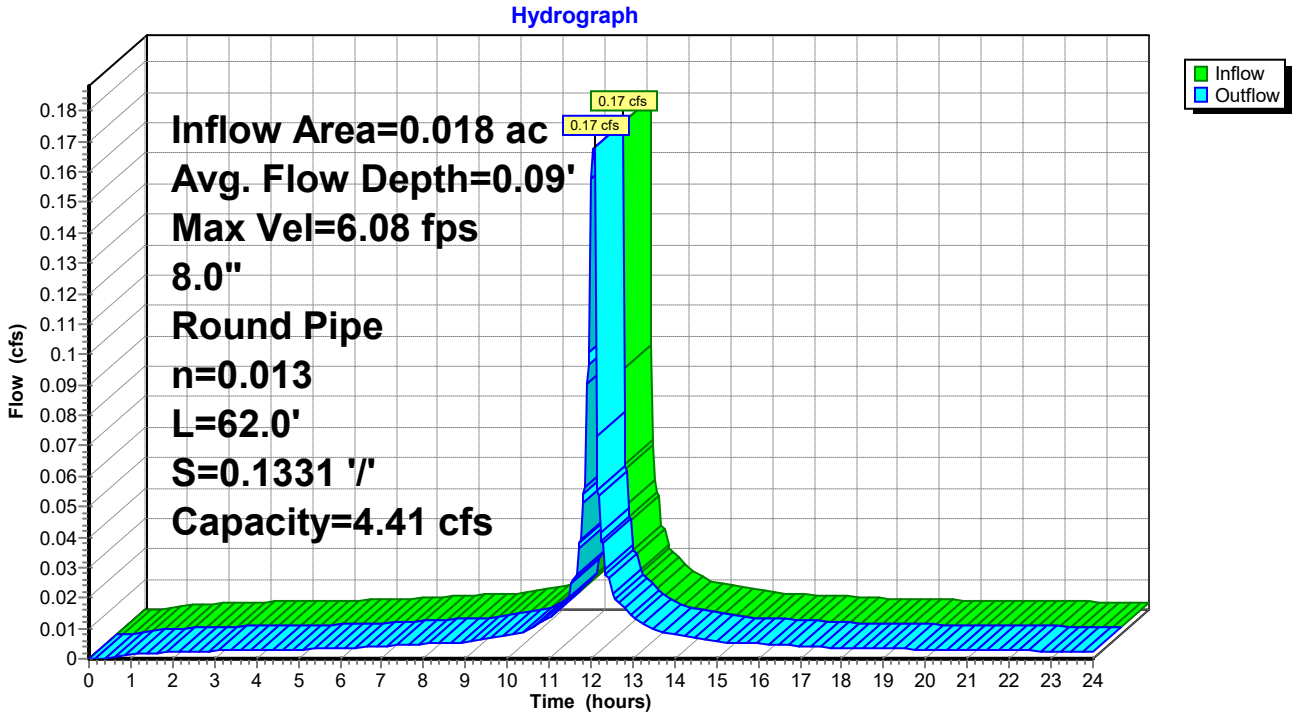
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 6.08 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 2.10 fps, Avg. Travel Time= 0.5 min

Peak Storage= 2 cf @ 12.04 hrs
Average Depth at Peak Storage= 0.09' , Surface Width= 0.45'
Bank-Full Depth= 0.67' Flow Area= 0.3 sf, Capacity= 4.41 cfs

8.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 62.0' Slope= 0.1331 '/'
Inlet Invert= 488.75', Outlet Invert= 480.50'



Reach PIPE A: PIPE A 62 L.F.



Hydrograph for Reach PIPE A: PIPE A 62 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	488.75	0.00
0.50	0.00	0	488.75	0.00
1.00	0.00	0	488.76	0.00
1.50	0.00	0	488.76	0.00
2.00	0.00	0	488.76	0.00
2.50	0.00	0	488.76	0.00
3.00	0.00	0	488.76	0.00
3.50	0.00	0	488.76	0.00
4.00	0.00	0	488.76	0.00
4.50	0.00	0	488.76	0.00
5.00	0.00	0	488.76	0.00
5.50	0.00	0	488.76	0.00
6.00	0.00	0	488.76	0.00
6.50	0.00	0	488.76	0.00
7.00	0.00	0	488.77	0.00
7.50	0.00	0	488.77	0.00
8.00	0.00	0	488.77	0.00
8.50	0.01	0	488.77	0.01
9.00	0.01	0	488.77	0.01
9.50	0.01	0	488.77	0.01
10.00	0.01	0	488.77	0.01
10.50	0.01	0	488.77	0.01
11.00	0.01	0	488.78	0.01
11.50	0.02	0	488.78	0.02
12.00	**0.10**	**1**	**488.82**	**0.10**
12.50	**0.03**	**0**	**488.79**	**0.03**
13.00	0.01	0	488.78	0.01
13.50	0.01	0	488.77	0.01
14.00	0.01	0	488.77	0.01
14.50	0.01	0	488.77	0.01
15.00	0.01	0	488.77	0.01
15.50	0.01	0	488.77	0.01
16.00	0.00	0	488.77	0.00
16.50	0.00	0	488.77	0.00
17.00	0.00	0	488.77	0.00
17.50	0.00	0	488.76	0.00
18.00	0.00	0	488.76	0.00
18.50	0.00	0	488.76	0.00
19.00	0.00	0	488.76	0.00
19.50	0.00	0	488.76	0.00
20.00	0.00	0	488.76	0.00
20.50	0.00	0	488.76	0.00
21.00	0.00	0	488.76	0.00
21.50	0.00	0	488.76	0.00
22.00	0.00	0	488.76	0.00
22.50	0.00	0	488.76	0.00
23.00	0.00	0	488.76	0.00
23.50	0.00	0	488.76	0.00
24.00	0.00	0	488.76	0.00

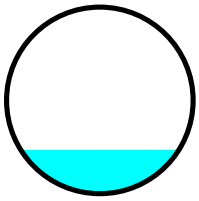
Summary for Reach PIPE B: PIPE B 73 L.F.

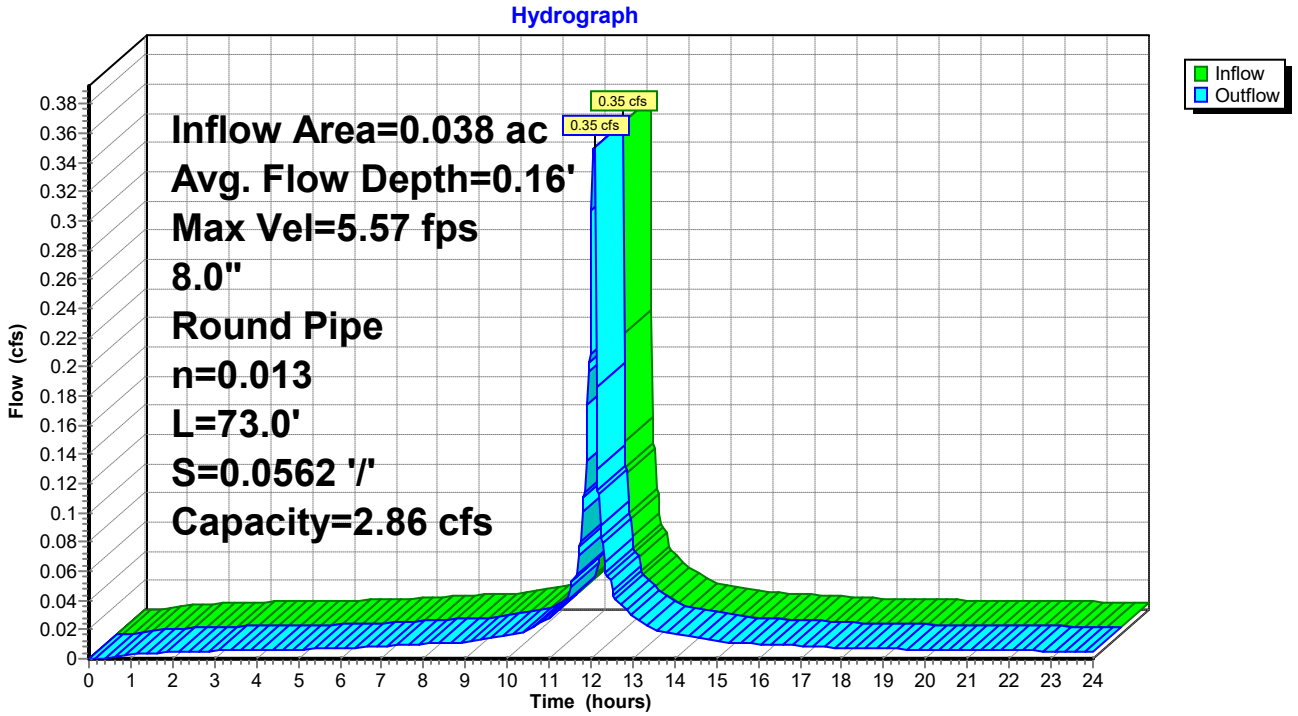
Inflow Area = 0.038 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.028 af
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CB B : CB B

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 5.57 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.93 fps, Avg. Travel Time= 0.6 min

Peak Storage= 5 cf @ 12.04 hrs
Average Depth at Peak Storage= 0.16' , Surface Width= 0.57'
Bank-Full Depth= 0.67' Flow Area= 0.3 sf, Capacity= 2.86 cfs

8.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 73.0' Slope= 0.0562 '/'
Inlet Invert= 480.50', Outlet Invert= 476.40'





Hydrograph for Reach PIPE B: PIPE B 73 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	480.50	0.00
0.50	0.00	0	480.51	0.00
1.00	0.00	0	480.52	0.00
1.50	0.00	0	480.52	0.00
2.00	0.00	0	480.52	0.00
2.50	0.00	0	480.52	0.00
3.00	0.01	0	480.52	0.01
3.50	0.01	0	480.52	0.01
4.00	0.01	0	480.52	0.01
4.50	0.01	0	480.52	0.01
5.00	0.01	0	480.52	0.01
5.50	0.01	0	480.52	0.01
6.00	0.01	0	480.52	0.01
6.50	0.01	0	480.53	0.01
7.00	0.01	0	480.53	0.01
7.50	0.01	0	480.53	0.01
8.00	0.01	0	480.53	0.01
8.50	0.01	0	480.53	0.01
9.00	0.01	0	480.53	0.01
9.50	0.01	0	480.53	0.01
10.00	0.02	1	480.54	0.02
10.50	0.02	1	480.54	0.02
11.00	0.03	1	480.55	0.03
11.50	0.04	1	480.56	0.04
12.00	**0.21**	**3**	**480.62**	**0.20**
12.50	**0.05**	**1**	**480.56**	**0.05**
13.00	0.03	1	480.55	0.03
13.50	0.02	1	480.54	0.02
14.00	0.02	1	480.54	0.02
14.50	0.01	0	480.53	0.01
15.00	0.01	0	480.53	0.01
15.50	0.01	0	480.53	0.01
16.00	0.01	0	480.53	0.01
16.50	0.01	0	480.53	0.01
17.00	0.01	0	480.53	0.01
17.50	0.01	0	480.53	0.01
18.00	0.01	0	480.52	0.01
18.50	0.01	0	480.52	0.01
19.00	0.01	0	480.52	0.01
19.50	0.01	0	480.52	0.01
20.00	0.01	0	480.52	0.01
20.50	0.01	0	480.52	0.01
21.00	0.01	0	480.52	0.01
21.50	0.01	0	480.52	0.01
22.00	0.01	0	480.52	0.01
22.50	0.01	0	480.52	0.01
23.00	0.01	0	480.52	0.01
23.50	0.01	0	480.52	0.01
24.00	0.00	0	480.52	0.01

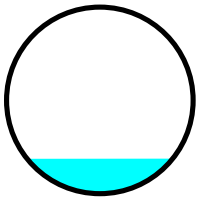
Summary for Reach PIPE C: PIPE C 15 L.F.

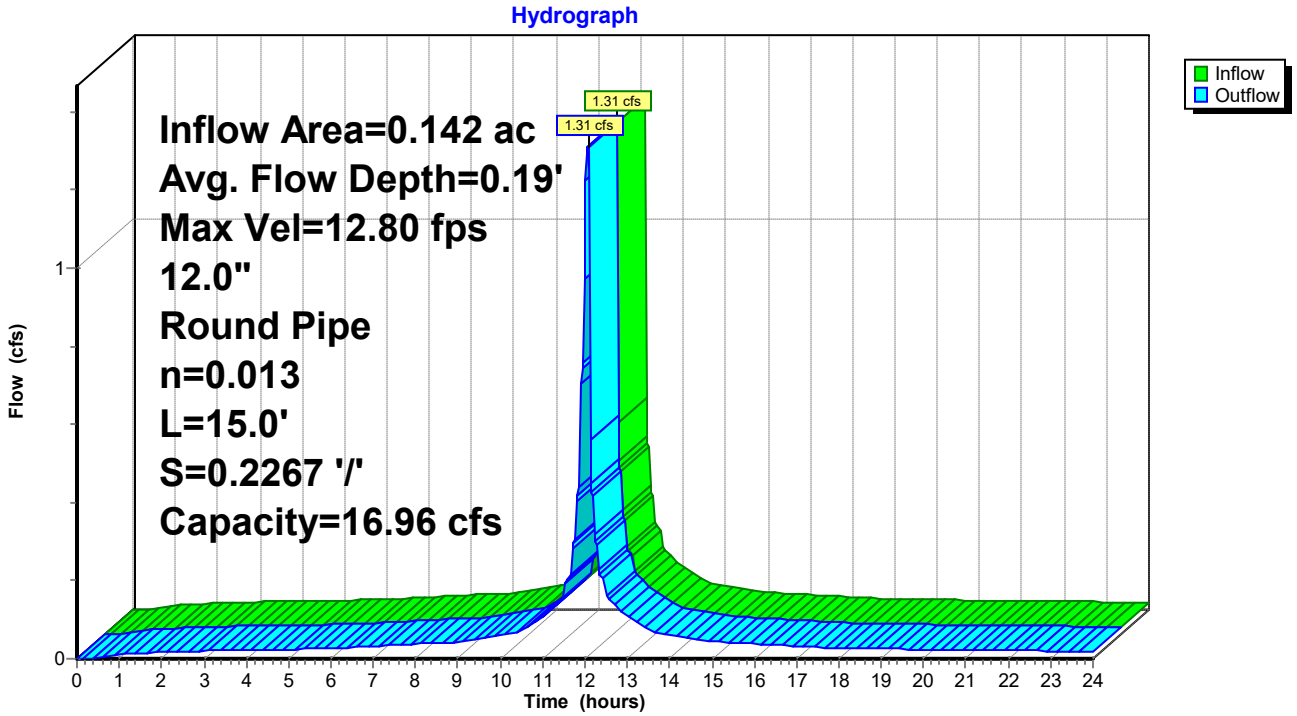
Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.106 af
Outflow = 1.31 cfs @ 12.08 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
Routed to Pond CULTEC A : CULTEC A FRONT

Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 12.80 fps, Min. Travel Time= 0.0 min
Avg. Velocity = 4.42 fps, Avg. Travel Time= 0.1 min

Peak Storage= 2 cf @ 12.06 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 0.78'
Bank-Full Depth= 1.00' Flow Area= 0.8 sf, Capacity= 16.96 cfs

12.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 15.0' Slope= 0.2267 '/'
Inlet Invert= 476.40', Outlet Invert= 473.00'





Hydrograph for Reach PIPE C: PIPE C 15 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	476.40	0.00
0.50	0.00	0	476.41	0.00
1.00	0.01	0	476.42	0.01
1.50	0.01	0	476.42	0.01
2.00	0.02	0	476.42	0.02
2.50	0.02	0	476.42	0.02
3.00	0.02	0	476.43	0.02
3.50	0.02	0	476.43	0.02
4.00	0.02	0	476.43	0.02
4.50	0.02	0	476.43	0.02
5.00	0.02	0	476.43	0.02
5.50	0.02	0	476.43	0.02
6.00	0.03	0	476.43	0.03
6.50	0.03	0	476.43	0.03
7.00	0.03	0	476.43	0.03
7.50	0.03	0	476.43	0.03
8.00	0.04	0	476.43	0.04
8.50	0.04	0	476.44	0.04
9.00	0.04	0	476.44	0.04
9.50	0.05	0	476.44	0.05
10.00	0.06	0	476.44	0.06
10.50	0.07	0	476.45	0.07
11.00	0.10	0	476.46	0.10
11.50	0.15	0	476.47	0.15
12.00	**0.76**	**1**	**476.54**	**0.76**
12.50	**0.20**	**0**	**476.48**	**0.20**
13.00	0.11	0	476.46	0.11
13.50	0.08	0	476.45	0.08
14.00	0.06	0	476.44	0.06
14.50	0.05	0	476.44	0.05
15.00	0.05	0	476.44	0.05
15.50	0.04	0	476.44	0.04
16.00	0.04	0	476.43	0.04
16.50	0.04	0	476.43	0.04
17.00	0.03	0	476.43	0.03
17.50	0.03	0	476.43	0.03
18.00	0.03	0	476.43	0.03
18.50	0.03	0	476.43	0.03
19.00	0.03	0	476.43	0.03
19.50	0.02	0	476.43	0.02
20.00	0.02	0	476.43	0.02
20.50	0.02	0	476.43	0.02
21.00	0.02	0	476.43	0.02
21.50	0.02	0	476.43	0.02
22.00	0.02	0	476.43	0.02
22.50	0.02	0	476.43	0.02
23.00	0.02	0	476.43	0.02
23.50	0.02	0	476.42	0.02
24.00	0.02	0	476.42	0.02

Summary for Pond CB A: CB A

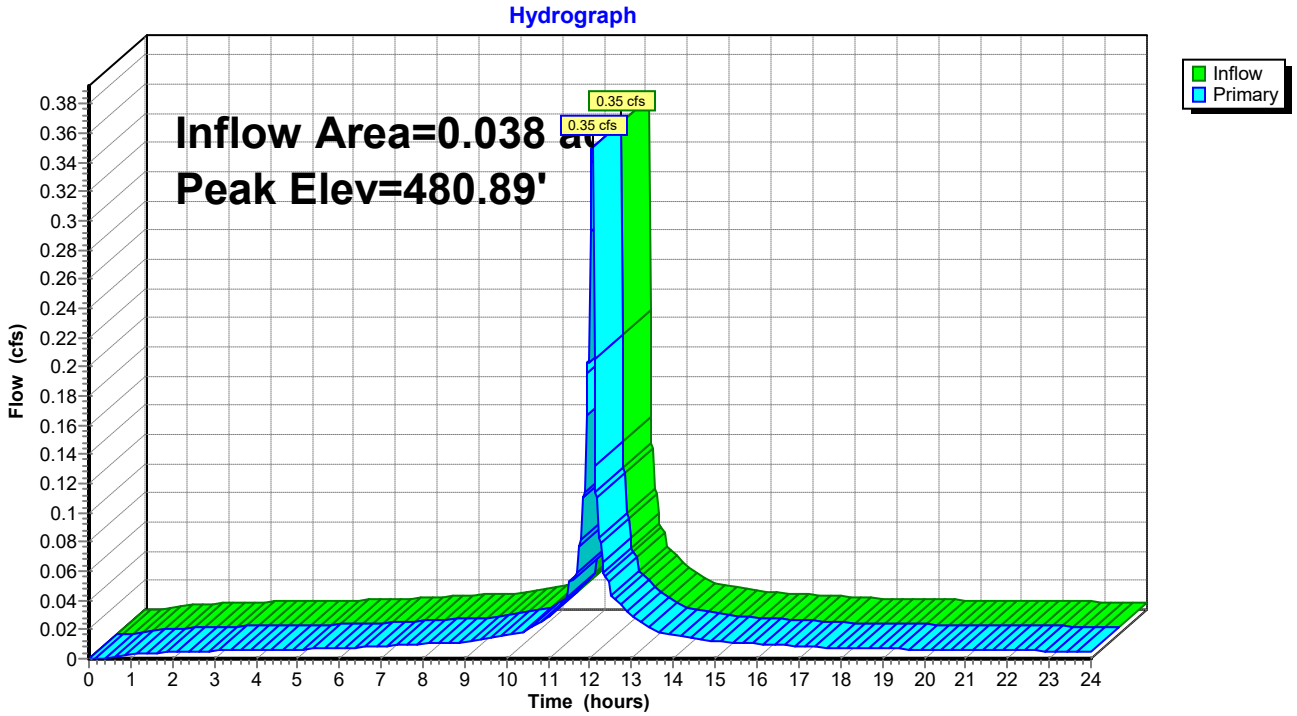
Inflow Area = 0.038 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 0.35 cfs @ 12.09 hrs, Volume= 0.028 af
Outflow = 0.35 cfs @ 12.09 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Primary = 0.35 cfs @ 12.09 hrs, Volume= 0.028 af
Routed to Reach PIPE B : PIPE B 73 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 480.89' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	480.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.35 cfs @ 12.09 hrs HW=480.89' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.35 cfs @ 2.13 fps)

Pond CB A: CB A



Hydrograph for Pond CB A: CB A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	480.50	0.00
0.50	0.00	480.52	0.00
1.00	0.00	480.53	0.00
1.50	0.00	480.53	0.00
2.00	0.00	480.54	0.00
2.50	0.00	480.54	0.00
3.00	0.01	480.54	0.01
3.50	0.01	480.54	0.01
4.00	0.01	480.54	0.01
4.50	0.01	480.54	0.01
5.00	0.01	480.55	0.01
5.50	0.01	480.55	0.01
6.00	0.01	480.55	0.01
6.50	0.01	480.55	0.01
7.00	0.01	480.55	0.01
7.50	0.01	480.55	0.01
8.00	0.01	480.56	0.01
8.50	0.01	480.56	0.01
9.00	0.01	480.56	0.01
9.50	0.01	480.57	0.01
10.00	0.02	480.57	0.02
10.50	0.02	480.58	0.02
11.00	0.03	480.60	0.03
11.50	0.04	480.62	0.04
12.00	**0.21**	**480.78**	**0.21**
12.50	**0.05**	**480.64**	**0.05**
13.00	0.03	480.60	0.03
13.50	0.02	480.58	0.02
14.00	0.02	480.57	0.02
14.50	0.01	480.57	0.01
15.00	0.01	480.56	0.01
15.50	0.01	480.56	0.01
16.00	0.01	480.56	0.01
16.50	0.01	480.56	0.01
17.00	0.01	480.55	0.01
17.50	0.01	480.55	0.01
18.00	0.01	480.55	0.01
18.50	0.01	480.55	0.01
19.00	0.01	480.55	0.01
19.50	0.01	480.55	0.01
20.00	0.01	480.55	0.01
20.50	0.01	480.54	0.01
21.00	0.01	480.54	0.01
21.50	0.01	480.54	0.01
22.00	0.01	480.54	0.01
22.50	0.01	480.54	0.01
23.00	0.01	480.54	0.01
23.50	0.01	480.54	0.01
24.00	0.00	480.54	0.00

Summary for Pond CB B: CB B

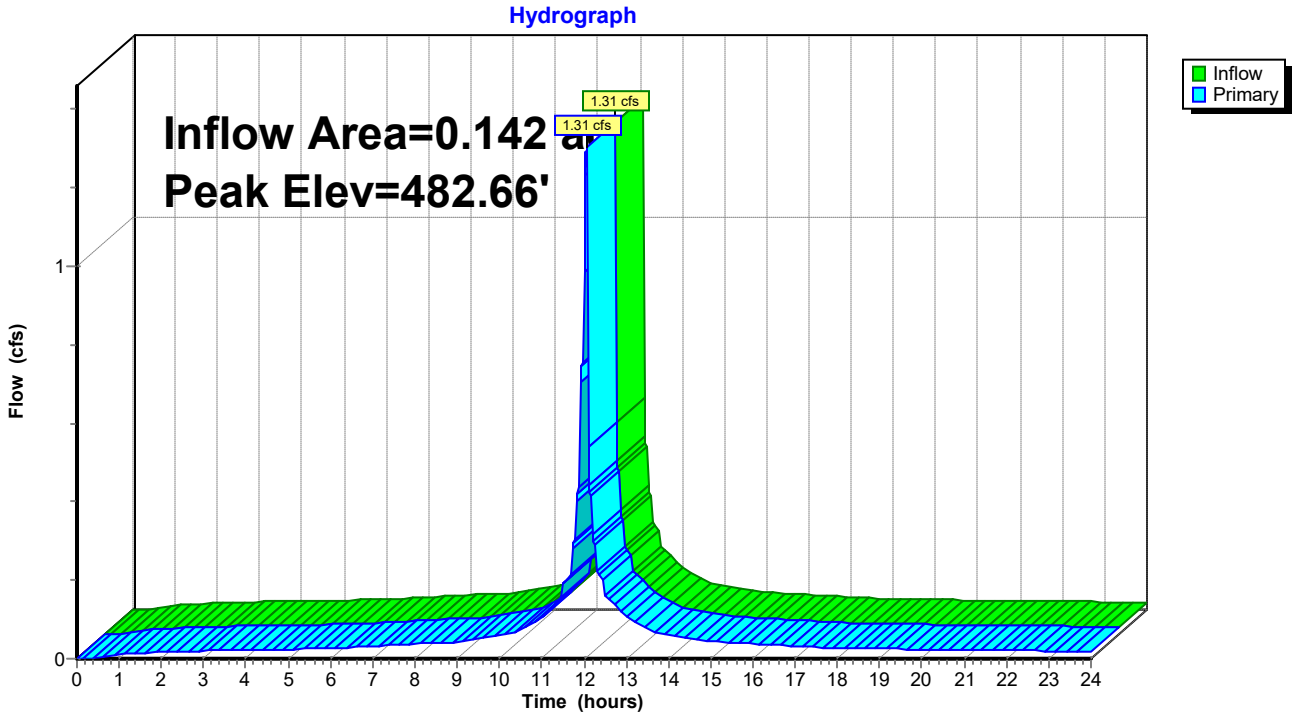
Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 1.31 cfs @ 12.09 hrs, Volume= 0.106 af
Outflow = 1.31 cfs @ 12.09 hrs, Volume= 0.106 af, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.09 hrs, Volume= 0.106 af
Routed to Reach PIPE C : PIPE C 15 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 482.66' @ 12.09 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	480.50'	**6.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.31 cfs @ 12.09 hrs HW=482.66' (Free Discharge)
1=Orifice/Grate (Orifice Controls 1.31 cfs @ 6.65 fps)

Pond CB B: CB B



Hydrograph for Pond CB B: CB B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	480.50	0.00
0.50	0.00	480.53	0.00
1.00	0.01	480.56	0.01
1.50	0.01	480.57	0.01
2.00	0.02	480.57	0.02
2.50	0.02	480.58	0.02
3.00	0.02	480.58	0.02
3.50	0.02	480.58	0.02
4.00	0.02	480.58	0.02
4.50	0.02	480.59	0.02
5.00	0.02	480.59	0.02
5.50	0.02	480.59	0.02
6.00	0.03	480.59	0.03
6.50	0.03	480.60	0.03
7.00	0.03	480.60	0.03
7.50	0.03	480.61	0.03
8.00	0.04	480.61	0.04
8.50	0.04	480.62	0.04
9.00	0.04	480.62	0.04
9.50	0.05	480.63	0.05
10.00	0.06	480.64	0.06
10.50	0.07	480.66	0.07
11.00	0.10	480.69	0.10
11.50	0.15	480.74	0.15
12.00	**0.76**	**481.40**	**0.76**
12.50	**0.20**	**480.78**	**0.20**
13.00	0.11	480.70	0.11
13.50	0.08	480.66	0.08
14.00	0.06	480.65	0.06
14.50	0.05	480.64	0.05
15.00	0.05	480.62	0.05
15.50	0.04	480.62	0.04
16.00	0.04	480.61	0.04
16.50	0.04	480.61	0.04
17.00	0.03	480.60	0.03
17.50	0.03	480.60	0.03
18.00	0.03	480.59	0.03
18.50	0.03	480.59	0.03
19.00	0.03	480.59	0.03
19.50	0.02	480.59	0.02
20.00	0.02	480.59	0.02
20.50	0.02	480.59	0.02
21.00	0.02	480.59	0.02
21.50	0.02	480.58	0.02
22.00	0.02	480.58	0.02
22.50	0.02	480.58	0.02
23.00	0.02	480.58	0.02
23.50	0.02	480.58	0.02
24.00	0.02	480.58	0.02

Summary for Pond CULTEC A: CULTEC A FRONT

Inflow Area = 0.142 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 1.31 cfs @ 12.08 hrs, Volume= 0.106 af
Outflow = 0.23 cfs @ 12.32 hrs, Volume= 0.106 af, Atten= 83%, Lag= 14.5 min
Discarded = 0.23 cfs @ 12.32 hrs, Volume= 0.106 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 474.63' @ 12.32 hrs Surf.Area= 473 sf Storage= 934 cf

Plug-Flow detention time= 22.8 min calculated for 0.106 af (100% of inflow)
Center-of-Mass det. time= 22.6 min (758.6 - 736.0)

Volume	Invert	Avail.Storage	Storage Description
#1A	471.50'	441 cf	**45.00'W x 10.50'L x 3.54'H Field A** 1,673 cf Overall - 570 cf Embedded = 1,103 cf x 40.0% Voids
#2A	472.00'	570 cf	**Cultec R-330XLHD** x 9 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 9 rows
#3	474.54'	1 cf	**0.50'D x 3.47'H Vertical Cone/Cylinder** x 2
		1,013 cf	Total Available Storage

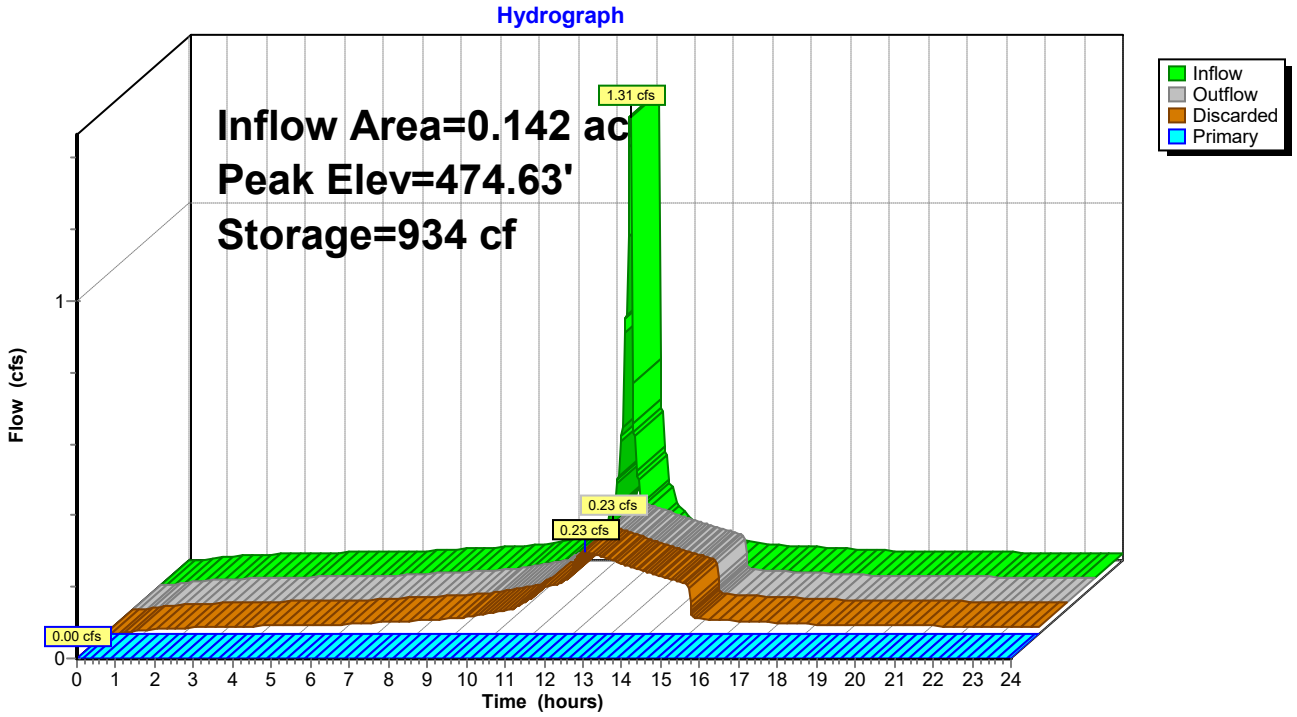
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	471.50'	**12.000 in/hr Exfiltration over Wetted area**
#2	Primary	478.00'	**6.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.23 cfs @ 12.32 hrs HW=474.63' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.23 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=471.50' (Free Discharge)
↑—**2=Orifice/Grate** (Controls 0.00 cfs)

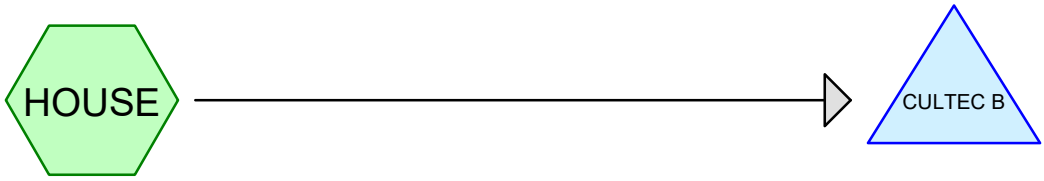
Pond CULTEC A: CULTEC A FRONT



Hydrograph for Pond CULTEC A: CULTEC A FRONT

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	471.50	0.00	0.00	**0.00**
0.50	0.00	0	471.50	0.00	0.00	0.00
1.00	0.01	1	471.50	0.01	0.01	0.00
1.50	0.01	1	471.51	0.01	0.01	0.00
2.00	0.02	2	471.51	0.02	0.02	0.00
2.50	0.02	2	471.51	0.02	0.02	0.00
3.00	0.02	2	471.51	0.02	0.02	0.00
3.50	0.02	2	471.51	0.02	0.02	0.00
4.00	0.02	2	471.51	0.02	0.02	0.00
4.50	0.02	2	471.51	0.02	0.02	0.00
5.00	0.02	2	471.51	0.02	0.02	0.00
5.50	0.02	2	471.51	0.02	0.02	0.00
6.00	0.03	2	471.51	0.03	0.03	0.00
6.50	0.03	3	471.51	0.03	0.03	0.00
7.00	0.03	3	471.52	0.03	0.03	0.00
7.50	0.03	3	471.52	0.03	0.03	0.00
8.00	0.04	3	471.52	0.04	0.04	0.00
8.50	0.04	4	471.52	0.04	0.04	0.00
9.00	0.04	4	471.52	0.04	0.04	0.00
9.50	0.05	5	471.53	0.05	0.05	0.00
10.00	0.06	6	471.53	0.06	0.06	0.00
10.50	0.07	6	471.53	0.07	0.07	0.00
11.00	0.10	9	471.55	0.10	0.10	0.00
11.50	0.15	22	471.62	0.13	0.13	0.00
12.00	**0.76**	**407**	**472.86**	**0.17**	**0.17**	0.00
12.50	**0.20**	**921**	**474.56**	**0.23**	**0.23**	0.00
13.00	0.11	777	473.96	0.21	0.21	0.00
13.50	0.08	584	473.36	0.19	0.19	0.00
14.00	0.06	382	472.79	0.17	0.17	0.00
14.50	0.05	194	472.27	0.15	0.15	0.00
15.00	0.05	19	471.60	0.13	0.13	0.00
15.50	0.04	4	471.52	0.04	0.04	0.00
16.00	0.04	4	471.52	0.04	0.04	0.00
16.50	0.04	3	471.52	0.04	0.04	0.00
17.00	0.03	3	471.52	0.03	0.03	0.00
17.50	0.03	3	471.51	0.03	0.03	0.00
18.00	0.03	3	471.51	0.03	0.03	0.00
18.50	0.03	2	471.51	0.03	0.03	0.00
19.00	0.03	2	471.51	0.03	0.03	0.00
19.50	0.02	2	471.51	0.02	0.02	0.00
20.00	0.02	2	471.51	0.02	0.02	0.00
20.50	0.02	2	471.51	0.02	0.02	0.00
21.00	0.02	2	471.51	0.02	0.02	0.00
21.50	0.02	2	471.51	0.02	0.02	0.00
22.00	0.02	2	471.51	0.02	0.02	0.00
22.50	0.02	2	471.51	0.02	0.02	0.00
23.00	0.02	2	471.51	0.02	0.02	0.00
23.50	0.02	2	471.51	0.02	0.02	0.00
24.00	0.02	2	471.51	0.02	0.02	0.00

Rear Yard System

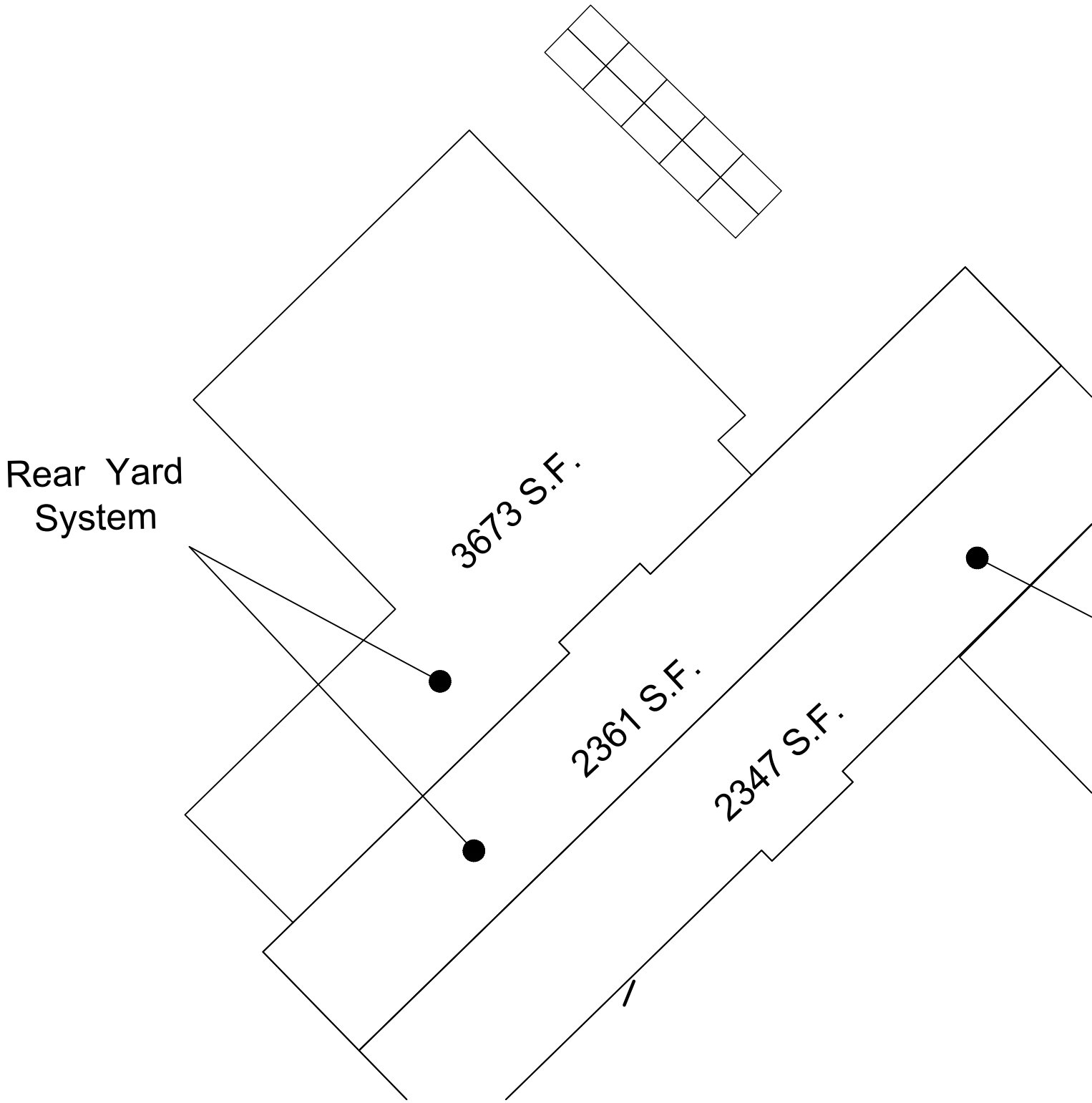


REAR HOUSE

CULTEC B REAR

Subcat Reach Pond Link

Routing Diagram for 1 Guion
Prepared by Gabriel E Senor PC


Rear Yard
System
3673 S.F.
2361 S.F.
2347 S.F.

Summary for Subcatchment HOUSE: REAR HOUSE

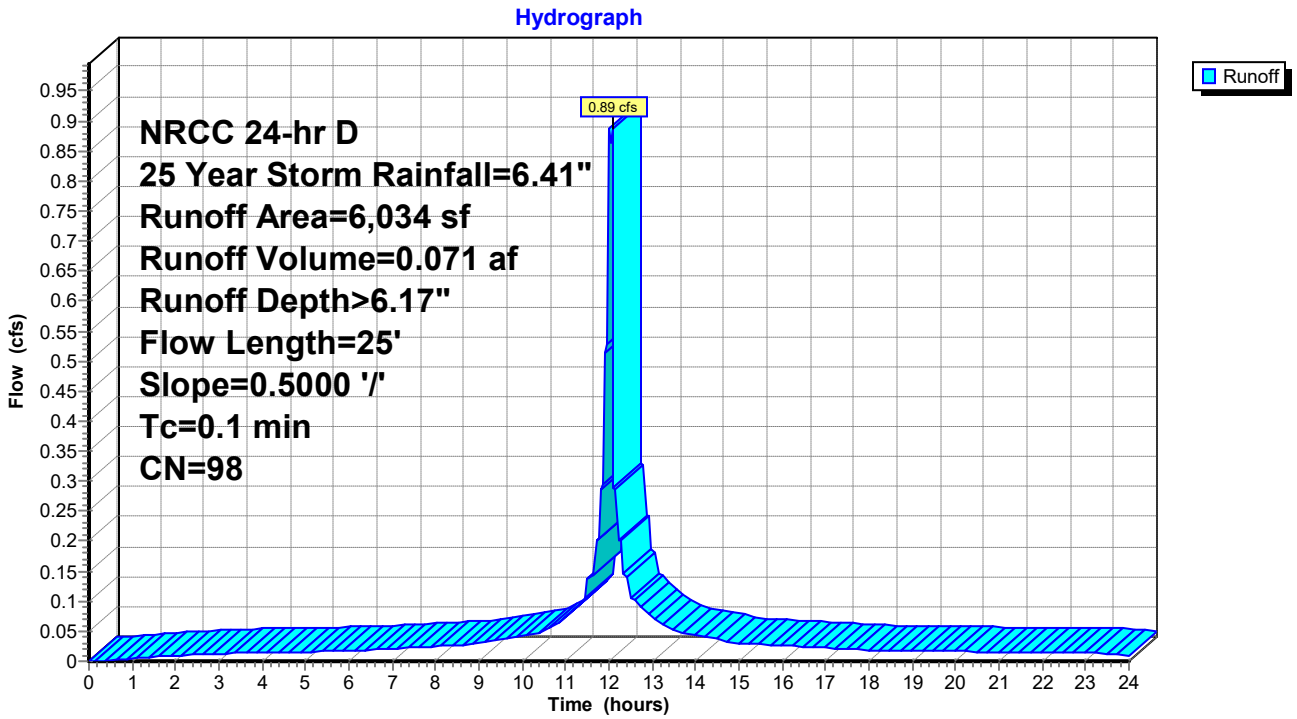
Runoff = 0.89 cfs @ 12.09 hrs, Volume= 0.071 af, Depth> 6.17"
Routed to Pond CULTEC B : CULTEC B REAR

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 25 Year Storm Rainfall=6.41"

Area (sf)	CN	Description
6,034	98	Paved parking, HSG B
6,034		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	25	0.5000	3.95		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment HOUSE: REAR HOUSE



Hydrograph for Subcatchment HOUSE: REAR HOUSE

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.01
2.00	0.19	0.07	0.01
2.50	0.25	0.10	0.01
3.00	0.30	0.14	0.01
3.50	0.36	0.19	0.01
4.00	0.41	0.24	0.01
4.50	0.47	0.29	0.02
5.00	0.53	0.35	0.02
5.50	0.60	0.41	0.02
6.00	0.66	0.47	0.02
6.50	0.73	0.53	0.02
7.00	0.81	0.60	0.02
7.50	0.89	0.68	0.02
8.00	0.98	0.77	0.03
8.50	1.07	0.86	0.03
9.00	1.18	0.96	0.03
9.50	1.30	1.08	0.04
10.00	1.44	1.22	0.04
10.50	1.60	1.38	0.05
11.00	1.82	1.60	0.07
11.50	2.15	1.92	0.12
12.00	3.07	2.84	**0.64**
12.50	4.26	4.03	**0.13**
13.00	4.59	4.35	0.07
13.50	4.81	4.57	0.05
14.00	4.97	4.74	0.04
14.50	5.11	4.88	0.04
15.00	5.23	5.00	0.03
15.50	5.34	5.10	0.03
16.00	5.43	5.20	0.03
16.50	5.52	5.28	0.02
17.00	5.60	5.37	0.02
17.50	5.68	5.44	0.02
18.00	5.75	5.51	0.02
18.50	5.81	5.58	0.02
19.00	5.88	5.64	0.02
19.50	5.94	5.70	0.02
20.00	6.00	5.76	0.02
20.50	6.05	5.82	0.02
21.00	6.11	5.87	0.02
21.50	6.16	5.93	0.01
22.00	6.22	5.98	0.01
22.50	6.27	6.03	0.01
23.00	6.32	6.08	0.01
23.50	6.36	6.13	0.01
24.00	**6.41**	**6.17**	0.01

Summary for Pond CULTEC B: CULTEC B REAR

Inflow Area = 0.139 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.89 cfs @ 12.09 hrs, Volume= 0.071 af
Outflow = 0.17 cfs @ 12.30 hrs, Volume= 0.071 af, Atten= 81%, Lag= 12.7 min
Discarded = 0.17 cfs @ 12.30 hrs, Volume= 0.071 af
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 465.91' @ 12.30 hrs Surf.Area= 430 sf Storage= 557 cf

Plug-Flow detention time= 15.7 min calculated for 0.071 af (100% of inflow)
Center-of-Mass det. time= 15.5 min (756.1 - 740.6)

Volume	Invert	Avail.Storage	Storage Description
#1A	464.00'	391 cf	**11.17'W x 38.50'L x 3.54'H Field A** 1,523 cf Overall - 544 cf Embedded = 979 cf x 40.0% Voids
#2A	464.50'	544 cf	**Cultec R-330XLHD** x 10 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 2 rows
#3	467.04'	1 cf	**0.50'D x 3.47'H Vertical Cone/Cylinder**
		936 cf	Total Available Storage

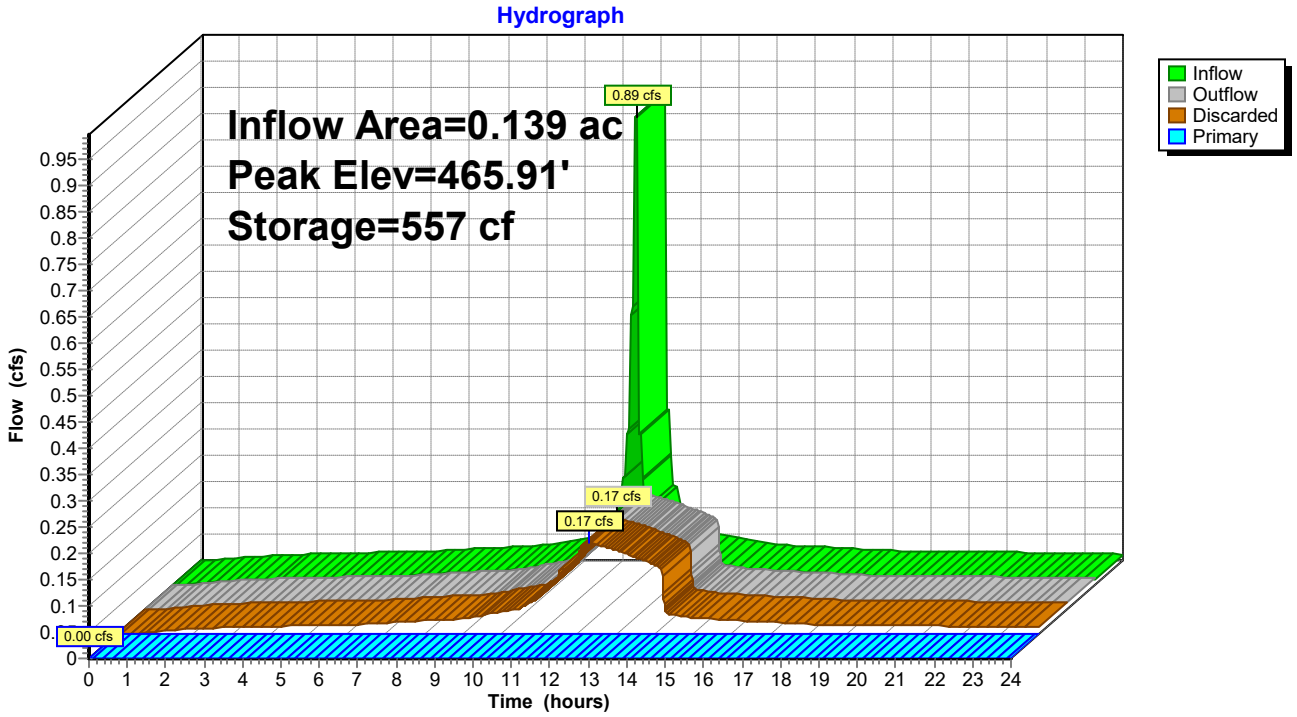
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	464.00'	**12.000 in/hr Exfiltration over Wetted area**
#2	Primary	470.50'	**6.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.17 cfs @ 12.30 hrs HW=465.91' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.17 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=464.00' (Free Discharge)
↑—**2=Orifice/Grate** (Controls 0.00 cfs)

Pond CULTEC B: CULTEC B REAR



Hydrograph for Pond CULTEC B: CULTEC B REAR

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	464.00	0.00	0.00	**0.00**
0.50	0.00	0	464.00	0.00	0.00	0.00
1.00	0.00	0	464.00	0.00	0.00	0.00
1.50	0.01	1	464.00	0.01	0.01	0.00
2.00	0.01	1	464.01	0.01	0.01	0.00
2.50	0.01	1	464.01	0.01	0.01	0.00
3.00	0.01	1	464.01	0.01	0.01	0.00
3.50	0.01	1	464.01	0.01	0.01	0.00
4.00	0.01	1	464.01	0.01	0.01	0.00
4.50	0.02	1	464.01	0.02	0.02	0.00
5.00	0.02	1	464.01	0.02	0.02	0.00
5.50	0.02	2	464.01	0.02	0.02	0.00
6.00	0.02	2	464.01	0.02	0.02	0.00
6.50	0.02	2	464.01	0.02	0.02	0.00
7.00	0.02	2	464.01	0.02	0.02	0.00
7.50	0.02	2	464.01	0.02	0.02	0.00
8.00	0.03	2	464.01	0.02	0.02	0.00
8.50	0.03	2	464.01	0.03	0.03	0.00
9.00	0.03	3	464.02	0.03	0.03	0.00
9.50	0.04	3	464.02	0.04	0.04	0.00
10.00	0.04	4	464.02	0.04	0.04	0.00
10.50	0.05	4	464.03	0.05	0.05	0.00
11.00	0.07	6	464.04	0.07	0.07	0.00
11.50	0.12	10	464.06	0.11	0.11	0.00
12.00	**0.64**	**241**	**464.95**	**0.15**	**0.15**	0.00
12.50	**0.13**	**536**	**465.84**	**0.17**	**0.17**	0.00
13.00	0.07	403	465.44	0.16	0.16	0.00
13.50	0.05	240	464.95	0.15	0.15	0.00
14.00	0.04	72	464.42	0.13	0.13	0.00
14.50	0.04	3	464.02	0.04	0.04	0.00
15.00	0.03	3	464.02	0.03	0.03	0.00
15.50	0.03	3	464.02	0.03	0.03	0.00
16.00	0.03	2	464.01	0.03	0.03	0.00
16.50	0.02	2	464.01	0.02	0.02	0.00
17.00	0.02	2	464.01	0.02	0.02	0.00
17.50	0.02	2	464.01	0.02	0.02	0.00
18.00	0.02	2	464.01	0.02	0.02	0.00
18.50	0.02	2	464.01	0.02	0.02	0.00
19.00	0.02	2	464.01	0.02	0.02	0.00
19.50	0.02	2	464.01	0.02	0.02	0.00
20.00	0.02	2	464.01	0.02	0.02	0.00
20.50	0.02	1	464.01	0.02	0.02	0.00
21.00	0.02	1	464.01	0.02	0.02	0.00
21.50	0.01	1	464.01	0.01	0.01	0.00
22.00	0.01	1	464.01	0.01	0.01	0.00
22.50	0.01	1	464.01	0.01	0.01	0.00
23.00	0.01	1	464.01	0.01	0.01	0.00
23.50	0.01	1	464.01	0.01	0.01	0.00
24.00	0.01	1	464.01	0.01	0.01	0.00

Summary for Subcatchment HOUSE: REAR HOUSE

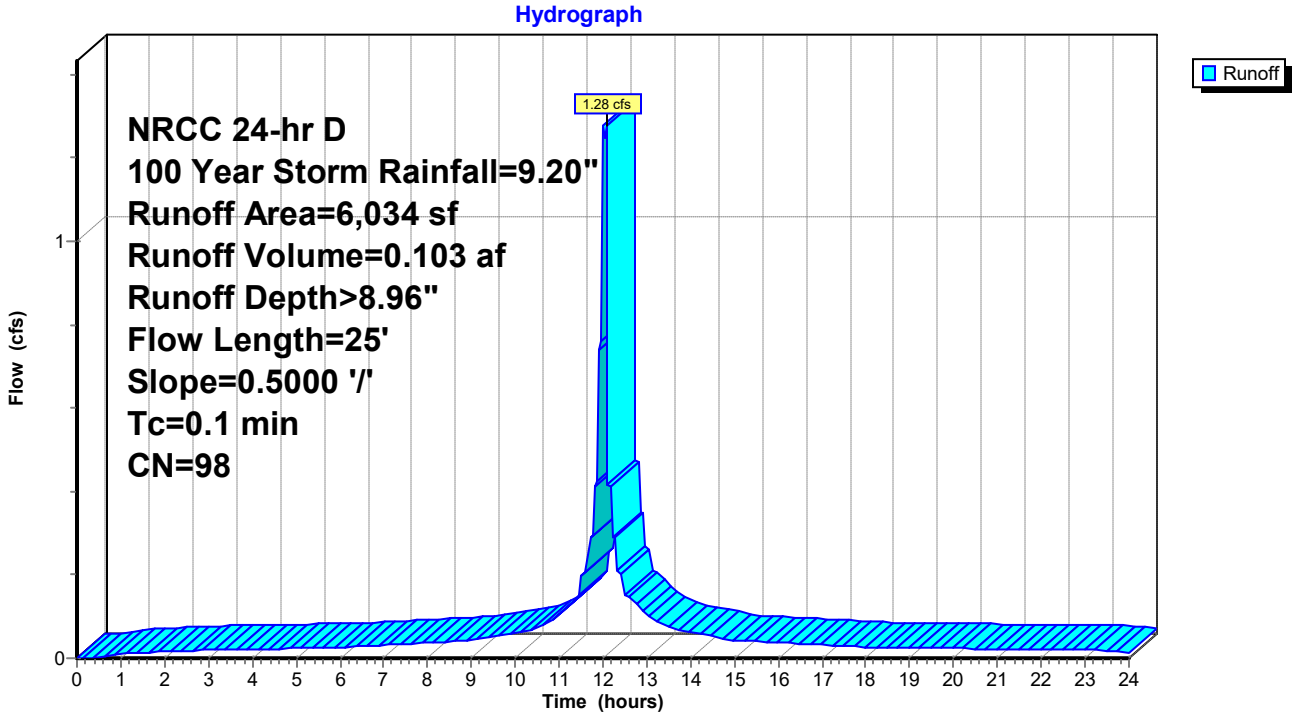
Runoff = 1.28 cfs @ 12.09 hrs, Volume= 0.103 af, Depth> 8.96"
Routed to Pond CULTEC B : CULTEC B REAR

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 100 Year Storm Rainfall=9.20"

Area (sf)	CN	Description
6,034	98	Paved parking, HSG B
6,034		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.1	25	0.5000	3.95		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"

Subcatchment HOUSE: REAR HOUSE



Hydrograph for Subcatchment HOUSE: REAR HOUSE

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.01
1.50	0.20	0.07	0.01
2.00	0.28	0.13	0.02
2.50	0.35	0.19	0.02
3.00	0.43	0.26	0.02
3.50	0.51	0.33	0.02
4.00	0.59	0.40	0.02
4.50	0.68	0.48	0.02
5.00	0.77	0.57	0.02
5.50	0.86	0.65	0.02
6.00	0.95	0.74	0.03
6.50	1.05	0.84	0.03
7.00	1.16	0.94	0.03
7.50	1.27	1.06	0.03
8.00	1.40	1.18	0.04
8.50	1.54	1.32	0.04
9.00	1.69	1.47	0.04
9.50	1.86	1.64	0.05
10.00	2.06	1.84	0.06
10.50	2.30	2.07	0.07
11.00	2.61	2.38	0.10
11.50	3.08	2.85	0.17
12.00	4.41	4.17	**0.92**
12.50	6.12	5.88	**0.18**
13.00	6.59	6.35	0.11
13.50	6.90	6.66	0.07
14.00	7.14	6.90	0.06
14.50	7.34	7.10	0.05
15.00	7.51	7.27	0.04
15.50	7.66	7.42	0.04
16.00	7.80	7.56	0.04
16.50	7.93	7.69	0.03
17.00	8.04	7.80	0.03
17.50	8.15	7.91	0.03
18.00	8.25	8.01	0.03
18.50	8.34	8.10	0.03
19.00	8.43	8.19	0.02
19.50	8.52	8.28	0.02
20.00	8.61	8.37	0.02
20.50	8.69	8.45	0.02
21.00	8.77	8.53	0.02
21.50	8.85	8.61	0.02
22.00	8.92	8.68	0.02
22.50	9.00	8.76	0.02
23.00	9.07	8.83	0.02
23.50	9.13	8.89	0.02
24.00	**9.20**	**8.96**	0.01

Summary for Pond CULTEC B: CULTEC B REAR

Inflow Area = 0.139 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 1.28 cfs @ 12.09 hrs, Volume= 0.103 af
Outflow = 0.31 cfs @ 12.29 hrs, Volume= 0.103 af, Atten= 76%, Lag= 11.9 min
Discarded = 0.22 cfs @ 12.28 hrs, Volume= 0.103 af
Primary = 0.09 cfs @ 12.29 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 470.54' @ 12.29 hrs Surf.Area= 430 sf Storage= 936 cf

Plug-Flow detention time= 25.0 min calculated for 0.103 af (100% of inflow)
Center-of-Mass det. time= 24.8 min (760.1 - 735.3)

Volume	Invert	Avail.Storage	Storage Description
#1A	464.00'	391 cf	**11.17'W x 38.50'L x 3.54'H Field A** 1,523 cf Overall - 544 cf Embedded = 979 cf x 40.0% Voids
#2A	464.50'	544 cf	**Cultec R-330XLHD** x 10 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 2 rows
#3	467.04'	1 cf	**0.50'D x 3.47'H Vertical Cone/Cylinder**
		936 cf	Total Available Storage

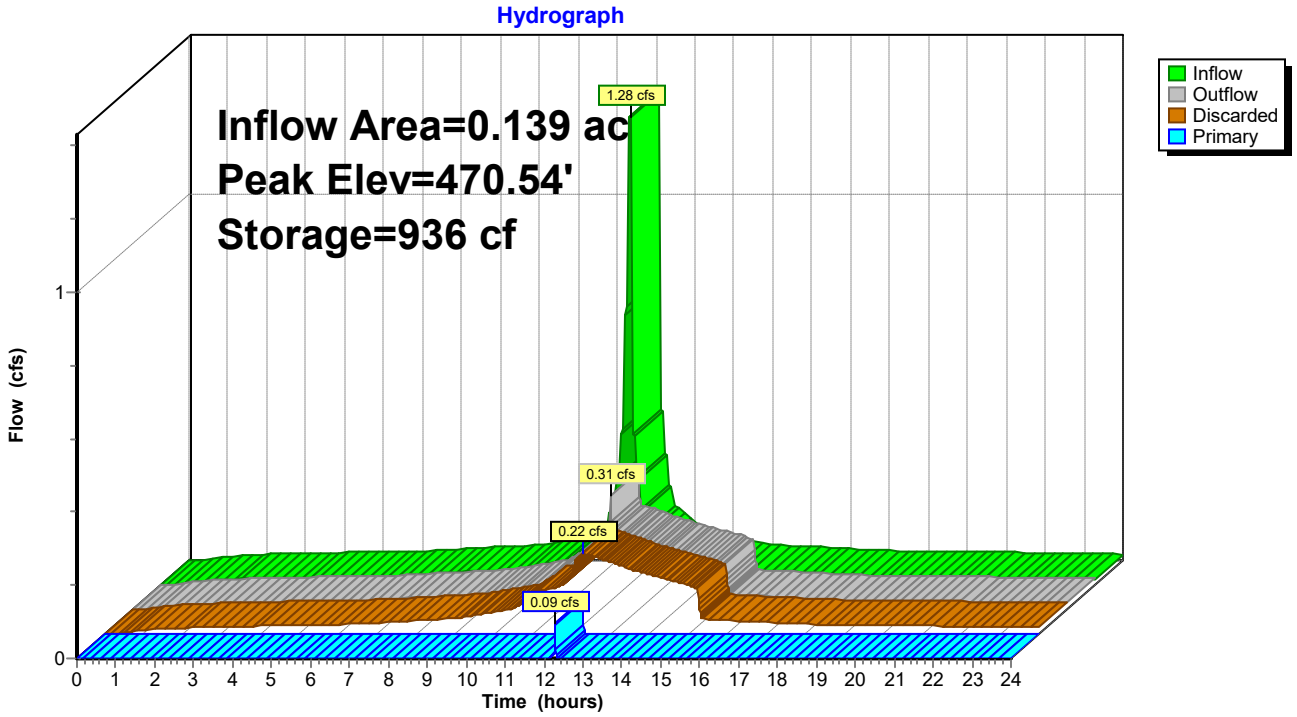
Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	464.00'	**12.000 in/hr Exfiltration over Wetted area**
#2	Primary	470.50'	**6.0" Horiz. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads

Discarded OutFlow Max=0.22 cfs @ 12.28 hrs HW=470.52' (Free Discharge)
↑—**1=Exfiltration** (Exfiltration Controls 0.22 cfs)

Primary OutFlow Max=0.07 cfs @ 12.29 hrs HW=470.53' (Free Discharge)
↑—**2=Orifice/Grate** (Weir Controls 0.07 cfs @ 0.61 fps)

Pond CULTEC B: CULTEC B REAR

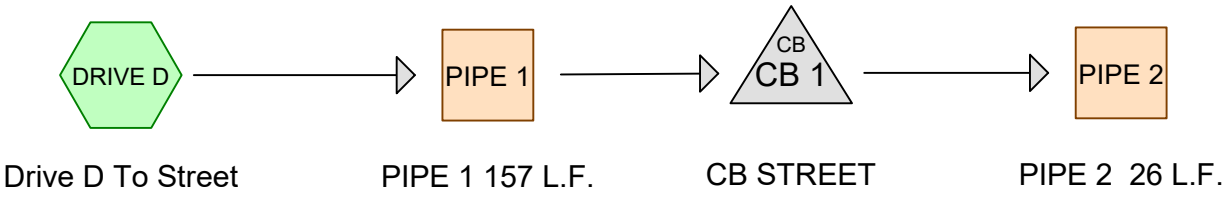


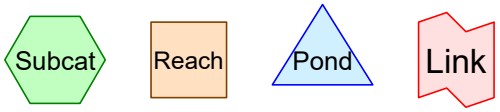
Hydrograph for Pond CULTEC B: CULTEC B REAR

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	464.00	0.00	0.00	0.00
0.50	0.00	0	464.00	0.00	0.00	0.00
1.00	0.01	1	464.01	0.01	0.01	0.00
1.50	0.01	1	464.01	0.01	0.01	0.00
2.00	0.02	1	464.01	0.02	0.02	0.00
2.50	0.02	2	464.01	0.02	0.02	0.00
3.00	0.02	2	464.01	0.02	0.02	0.00
3.50	0.02	2	464.01	0.02	0.02	0.00
4.00	0.02	2	464.01	0.02	0.02	0.00
4.50	0.02	2	464.01	0.02	0.02	0.00
5.00	0.02	2	464.01	0.02	0.02	0.00
5.50	0.02	2	464.01	0.02	0.02	0.00
6.00	0.03	2	464.01	0.03	0.03	0.00
6.50	0.03	3	464.02	0.03	0.03	0.00
7.00	0.03	3	464.02	0.03	0.03	0.00
7.50	0.03	3	464.02	0.03	0.03	0.00
8.00	0.04	3	464.02	0.04	0.04	0.00
8.50	0.04	4	464.02	0.04	0.04	0.00
9.00	0.04	4	464.02	0.04	0.04	0.00
9.50	0.05	5	464.03	0.05	0.05	0.00
10.00	0.06	6	464.03	0.06	0.06	0.00
10.50	0.07	6	464.04	0.07	0.07	0.00
11.00	0.10	9	464.05	0.10	0.10	0.00
11.50	0.17	31	464.18	0.12	0.12	0.00
12.00	**0.92**	**448**	**465.57**	**0.16**	**0.16**	**0.00**
12.50	**0.18**	**926**	**467.48**	**0.22**	**0.22**	**0.00**
13.00	0.11	791	466.75	0.20	0.20	0.00
13.50	0.07	615	466.10	0.18	0.18	0.00
14.00	0.06	429	465.51	0.16	0.16	0.00
14.50	0.05	254	464.99	0.15	0.15	0.00
15.00	0.04	88	464.51	0.13	0.13	0.00
15.50	0.04	4	464.02	0.04	0.04	0.00
16.00	0.04	3	464.02	0.04	0.04	0.00
16.50	0.03	3	464.02	0.03	0.03	0.00
17.00	0.03	3	464.02	0.03	0.03	0.00
17.50	0.03	3	464.02	0.03	0.03	0.00
18.00	0.03	2	464.01	0.03	0.03	0.00
18.50	0.03	2	464.01	0.03	0.03	0.00
19.00	0.02	2	464.01	0.02	0.02	0.00
19.50	0.02	2	464.01	0.02	0.02	0.00
20.00	0.02	2	464.01	0.02	0.02	0.00
20.50	0.02	2	464.01	0.02	0.02	0.00
21.00	0.02	2	464.01	0.02	0.02	0.00
21.50	0.02	2	464.01	0.02	0.02	0.00
22.00	0.02	2	464.01	0.02	0.02	0.00
22.50	0.02	2	464.01	0.02	0.02	0.00
23.00	0.02	2	464.01	0.02	0.02	0.00
23.50	0.02	2	464.01	0.02	0.02	0.00
24.00	0.01	2	464.01	0.02	0.02	0.00

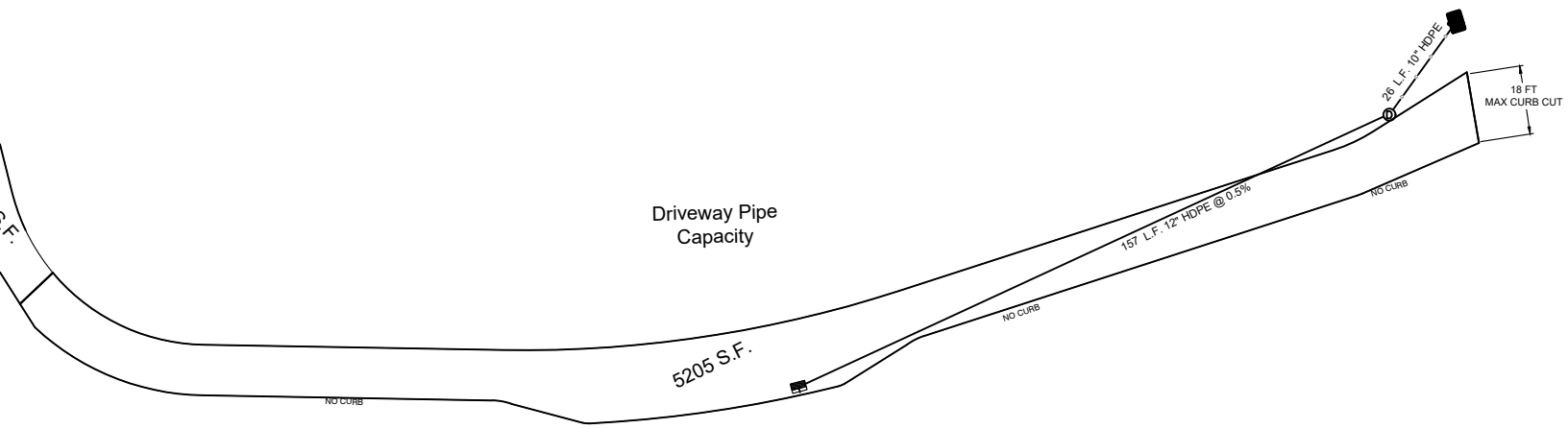
Front Yard System

Driveway Capacity





Routing Diagram for 1 Guion
Prepared by Gabriel E Senor PC


26 L.F. 10" HDPE
18 FT
MAX CURB CUT
Driveway Pipe
Capacity
157 L.F. 12" HDPE @ 0.5%
NO CURB
NO CURB
5205 S.F.
NO CURB

Summary for Subcatchment DRIVE D: Drive D To Street

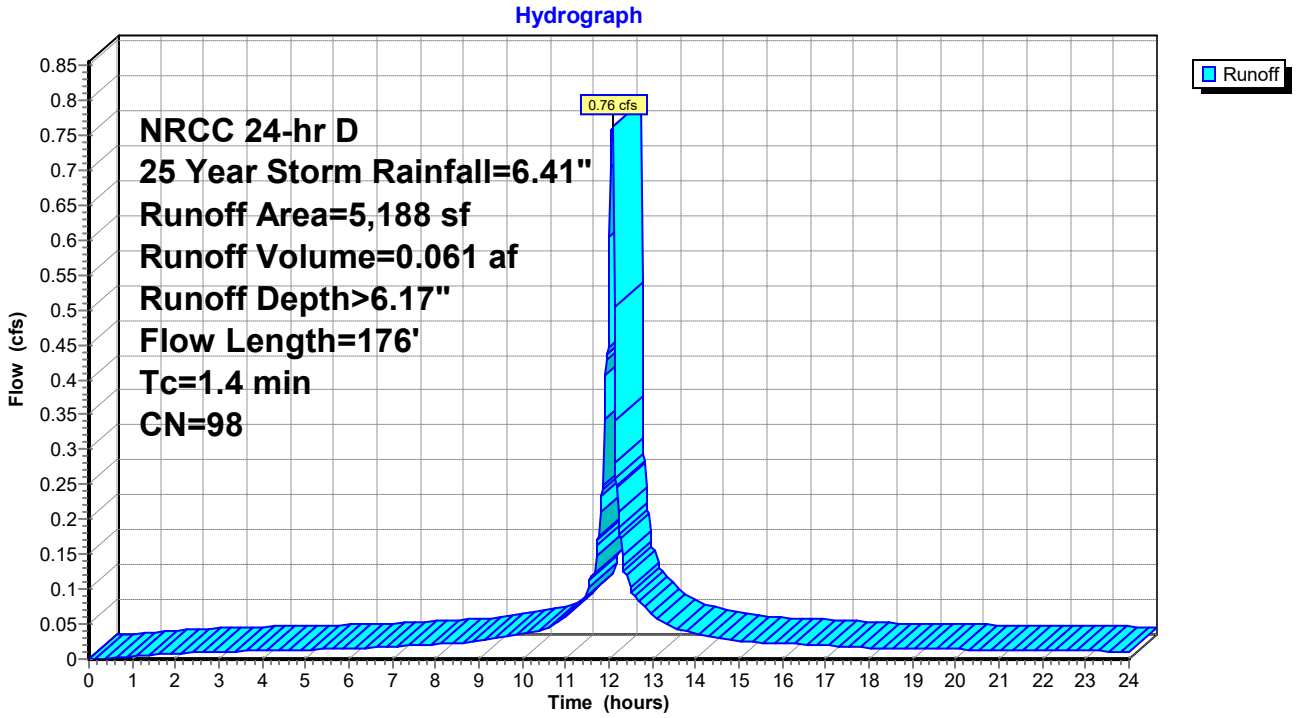
Runoff = 0.76 cfs @ 12.09 hrs, Volume= 0.061 af, Depth> 6.17"
Routed to Reach PIPE 1 : PIPE 1 157 L.F.

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 25 Year Storm Rainfall=6.41"

Area (sf)	CN	Description
5,188	98	Paved roads w/curbs & sewers, HSG B
5,188		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0500	2.08		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"
0.6	76	0.0100	2.03		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	176	Total			

Subcatchment DRIVE D: Drive D To Street



Hydrograph for Subcatchment DRIVE D: Drive D To Street

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.01
2.00	0.19	0.07	0.01
2.50	0.25	0.10	0.01
3.00	0.30	0.14	0.01
3.50	0.36	0.19	0.01
4.00	0.41	0.24	0.01
4.50	0.47	0.29	0.01
5.00	0.53	0.35	0.01
5.50	0.60	0.41	0.01
6.00	0.66	0.47	0.01
6.50	0.73	0.53	0.02
7.00	0.81	0.60	0.02
7.50	0.89	0.68	0.02
8.00	0.98	0.77	0.02
8.50	1.07	0.86	0.02
9.00	1.18	0.96	0.02
9.50	1.30	1.08	0.03
10.00	1.44	1.22	0.04
10.50	1.60	1.38	0.04
11.00	1.82	1.60	0.06
11.50	2.15	1.92	0.09
12.00	3.07	2.84	**0.44**
12.50	4.26	4.03	**0.12**
13.00	4.59	4.35	0.07
13.50	4.81	4.57	0.05
14.00	4.97	4.74	0.04
14.50	5.11	4.88	0.03
15.00	5.23	5.00	0.03
15.50	5.34	5.10	0.02
16.00	5.43	5.20	0.02
16.50	5.52	5.28	0.02
17.00	5.60	5.37	0.02
17.50	5.68	5.44	0.02
18.00	5.75	5.51	0.02
18.50	5.81	5.58	0.02
19.00	5.88	5.64	0.01
19.50	5.94	5.70	0.01
20.00	6.00	5.76	0.01
20.50	6.05	5.82	0.01
21.00	6.11	5.87	0.01
21.50	6.16	5.93	0.01
22.00	6.22	5.98	0.01
22.50	6.27	6.03	0.01
23.00	6.32	6.08	0.01
23.50	6.36	6.13	0.01
24.00	**6.41**	**6.17**	0.01

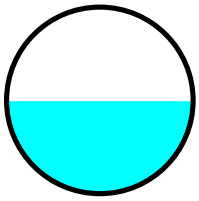
Summary for Reach PIPE 1: PIPE 1 157 L.F.

Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 6.17" for 25 Year Storm event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af, Atten= 0%, Lag= 1.0 min
Routed to Pond CB 1 : CB STREET

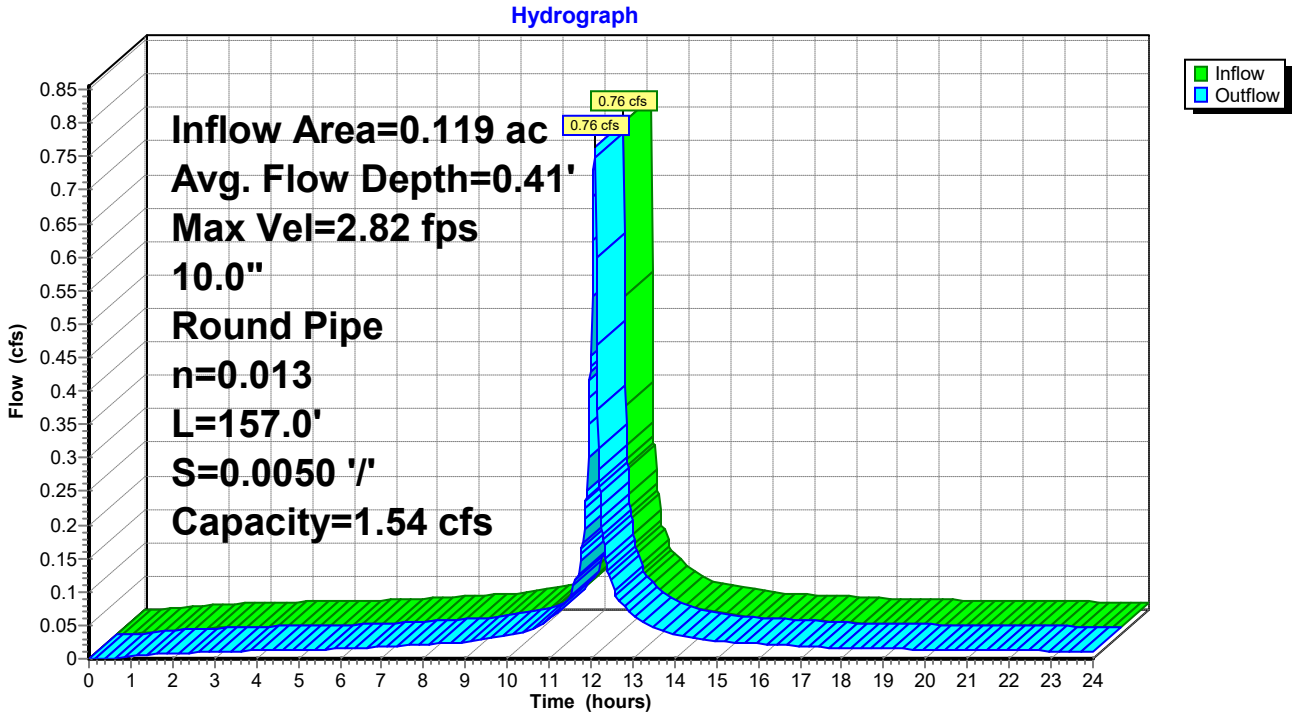
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.82 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.01 fps, Avg. Travel Time= 2.6 min

Peak Storage= 42 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.41' , Surface Width= 0.83'
Bank-Full Depth= 0.83' Flow Area= 0.5 sf, Capacity= 1.54 cfs

10.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 157.0' Slope= 0.0050 '/'
Inlet Invert= 485.37', Outlet Invert= 484.59'



Reach PIPE 1: PIPE 1 157 L.F.



Hydrograph for Reach PIPE 1: PIPE 1 157 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	485.37	0.00
0.50	0.00	0	485.37	0.00
1.00	0.00	1	485.40	0.00
1.50	0.01	1	485.41	0.01
2.00	0.01	2	485.41	0.01
2.50	0.01	2	485.42	0.01
3.00	0.01	2	485.42	0.01
3.50	0.01	2	485.42	0.01
4.00	0.01	2	485.42	0.01
4.50	0.01	2	485.42	0.01
5.00	0.01	2	485.42	0.01
5.50	0.01	2	485.43	0.01
6.00	0.01	3	485.43	0.01
6.50	0.02	3	485.43	0.02
7.00	0.02	3	485.43	0.02
7.50	0.02	3	485.44	0.02
8.00	0.02	3	485.44	0.02
8.50	0.02	4	485.44	0.02
9.00	0.02	4	485.44	0.02
9.50	0.03	4	485.45	0.03
10.00	0.04	5	485.46	0.04
10.50	0.04	5	485.46	0.04
11.00	0.06	7	485.48	0.06
11.50	0.09	9	485.51	0.09
12.00	**0.44**	**28**	**485.67**	**0.44**
12.50	**0.12**	**11**	**485.53**	**0.12**
13.00	0.07	7	485.49	0.07
13.50	0.05	6	485.47	0.05
14.00	0.04	5	485.46	0.04
14.50	0.03	4	485.45	0.03
15.00	0.03	4	485.45	0.03
15.50	0.02	4	485.44	0.02
16.00	0.02	3	485.44	0.02
16.50	0.02	3	485.44	0.02
17.00	0.02	3	485.44	0.02
17.50	0.02	3	485.43	0.02
18.00	0.02	3	485.43	0.02
18.50	0.02	3	485.43	0.02
19.00	0.01	3	485.43	0.01
19.50	0.01	3	485.43	0.01
20.00	0.01	2	485.43	0.01
20.50	0.01	2	485.43	0.01
21.00	0.01	2	485.42	0.01
21.50	0.01	2	485.42	0.01
22.00	0.01	2	485.42	0.01
22.50	0.01	2	485.42	0.01
23.00	0.01	2	485.42	0.01
23.50	0.01	2	485.42	0.01
24.00	0.01	2	485.42	0.01

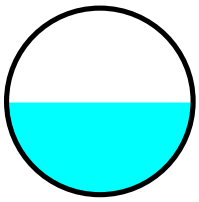
Summary for Reach PIPE 2: PIPE 2 26 L.F.

Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 6.16" for 25 Year Storm event
Inflow = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af
Outflow = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.2 min

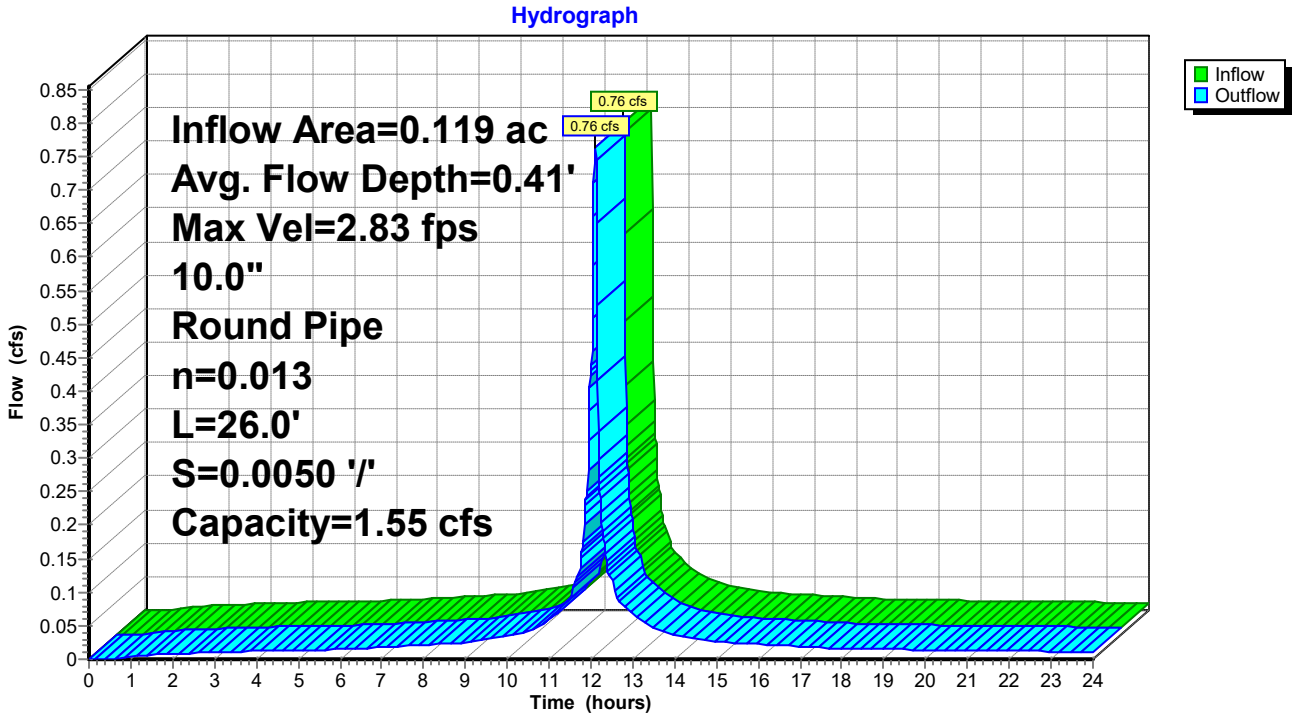
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 2.83 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 1.01 fps, Avg. Travel Time= 0.4 min

Peak Storage= 7 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.41' , Surface Width= 0.83'
Bank-Full Depth= 0.83' Flow Area= 0.5 sf, Capacity= 1.55 cfs

10.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 26.0' Slope= 0.0050 '/'
Inlet Invert= 484.59', Outlet Invert= 484.46'



Reach PIPE 2: PIPE 2 26 L.F.



Hydrograph for Reach PIPE 2: PIPE 2 26 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	484.59	0.00
0.50	0.00	0	484.59	0.00
1.00	0.00	0	484.62	0.00
1.50	0.01	0	484.63	0.01
2.00	0.01	0	484.63	0.01
2.50	0.01	0	484.64	0.01
3.00	0.01	0	484.64	0.01
3.50	0.01	0	484.64	0.01
4.00	0.01	0	484.64	0.01
4.50	0.01	0	484.64	0.01
5.00	0.01	0	484.64	0.01
5.50	0.01	0	484.65	0.01
6.00	0.01	0	484.65	0.01
6.50	0.02	0	484.65	0.02
7.00	0.02	0	484.65	0.02
7.50	0.02	1	484.66	0.02
8.00	0.02	1	484.66	0.02
8.50	0.02	1	484.66	0.02
9.00	0.02	1	484.66	0.02
9.50	0.03	1	484.67	0.03
10.00	0.04	1	484.68	0.04
10.50	0.04	1	484.68	0.04
11.00	0.06	1	484.70	0.06
11.50	0.09	2	484.73	0.09
12.00	**0.44**	**5**	**484.89**	**0.44**
12.50	**0.12**	**2**	**484.75**	**0.12**
13.00	0.07	1	484.71	0.07
13.50	0.05	1	484.69	0.05
14.00	0.04	1	484.68	0.04
14.50	0.03	1	484.67	0.03
15.00	0.03	1	484.67	0.03
15.50	0.02	1	484.66	0.02
16.00	0.02	1	484.66	0.02
16.50	0.02	1	484.66	0.02
17.00	0.02	1	484.66	0.02
17.50	0.02	0	484.65	0.02
18.00	0.02	0	484.65	0.02
18.50	0.02	0	484.65	0.02
19.00	0.01	0	484.65	0.01
19.50	0.01	0	484.65	0.01
20.00	0.01	0	484.65	0.01
20.50	0.01	0	484.65	0.01
21.00	0.01	0	484.64	0.01
21.50	0.01	0	484.64	0.01
22.00	0.01	0	484.64	0.01
22.50	0.01	0	484.64	0.01
23.00	0.01	0	484.64	0.01
23.50	0.01	0	484.64	0.01
24.00	0.01	0	484.64	0.01

Summary for Pond CB 1: CB STREET

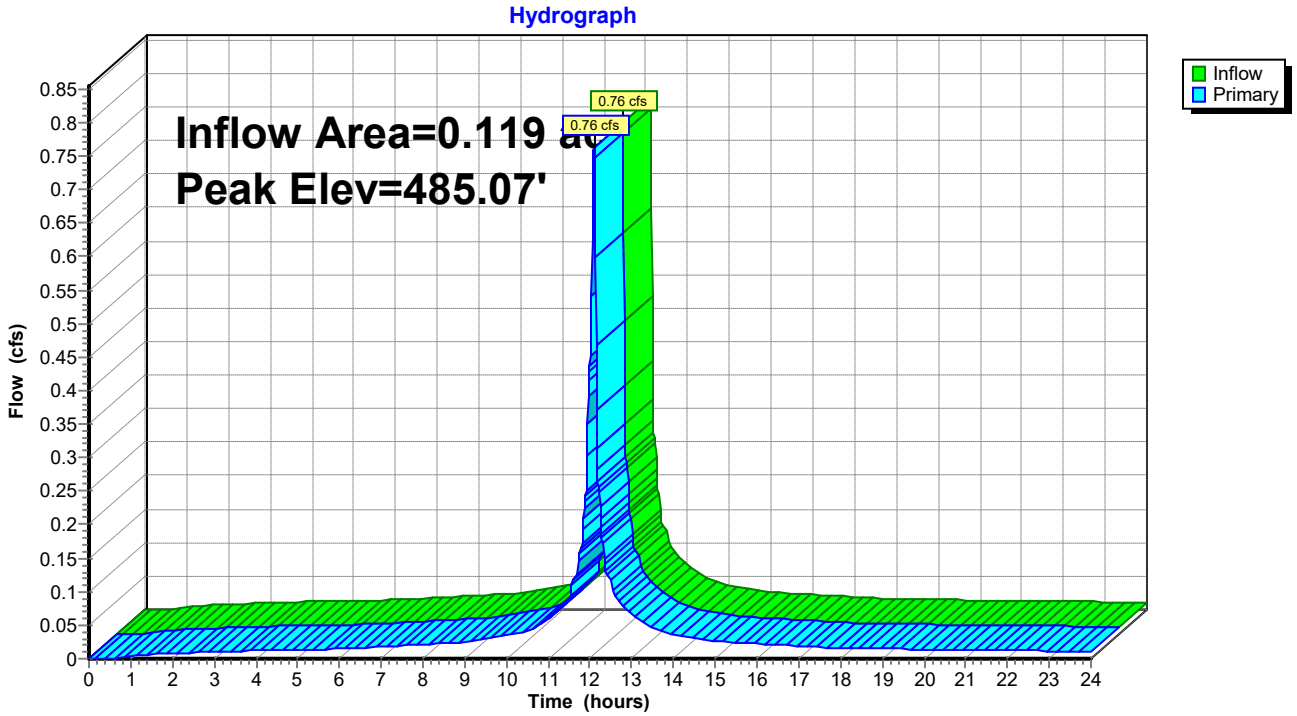
Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 6.16" for 25 Year Storm event
Inflow = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af
Outflow = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.76 cfs @ 12.11 hrs, Volume= 0.061 af
Routed to Reach PIPE 2 : PIPE 2 26 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 485.07' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	484.59'	**10.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.76 cfs @ 12.11 hrs HW=485.07' (Free Discharge)
1=Orifice/Grate (Orifice Controls 0.76 cfs @ 2.35 fps)

Pond CB 1: CB STREET



Hydrograph for Pond CB 1: CB STREET

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	484.59	0.00
0.50	0.00	484.59	0.00
1.00	0.00	484.62	0.00
1.50	0.01	484.63	0.01
2.00	0.01	484.63	0.01
2.50	0.01	484.64	0.01
3.00	0.01	484.64	0.01
3.50	0.01	484.64	0.01
4.00	0.01	484.64	0.01
4.50	0.01	484.65	0.01
5.00	0.01	484.65	0.01
5.50	0.01	484.65	0.01
6.00	0.01	484.65	0.01
6.50	0.02	484.65	0.02
7.00	0.02	484.66	0.02
7.50	0.02	484.66	0.02
8.00	0.02	484.66	0.02
8.50	0.02	484.67	0.02
9.00	0.02	484.67	0.02
9.50	0.03	484.68	0.03
10.00	0.04	484.68	0.04
10.50	0.04	484.69	0.04
11.00	0.06	484.71	0.06
11.50	0.09	484.74	0.09
12.00	**0.44**	**484.94**	**0.44**
12.50	**0.12**	**484.76**	**0.12**
13.00	0.07	484.72	0.07
13.50	0.05	484.70	0.05
14.00	0.04	484.69	0.04
14.50	0.03	484.68	0.03
15.00	0.03	484.67	0.03
15.50	0.02	484.67	0.02
16.00	0.02	484.66	0.02
16.50	0.02	484.66	0.02
17.00	0.02	484.66	0.02
17.50	0.02	484.66	0.02
18.00	0.02	484.65	0.02
18.50	0.02	484.65	0.02
19.00	0.01	484.65	0.01
19.50	0.01	484.65	0.01
20.00	0.01	484.65	0.01
20.50	0.01	484.65	0.01
21.00	0.01	484.65	0.01
21.50	0.01	484.65	0.01
22.00	0.01	484.65	0.01
22.50	0.01	484.64	0.01
23.00	0.01	484.64	0.01
23.50	0.01	484.64	0.01
24.00	0.01	484.64	0.01

Summary for Subcatchment DRIVE D: Drive D To Street

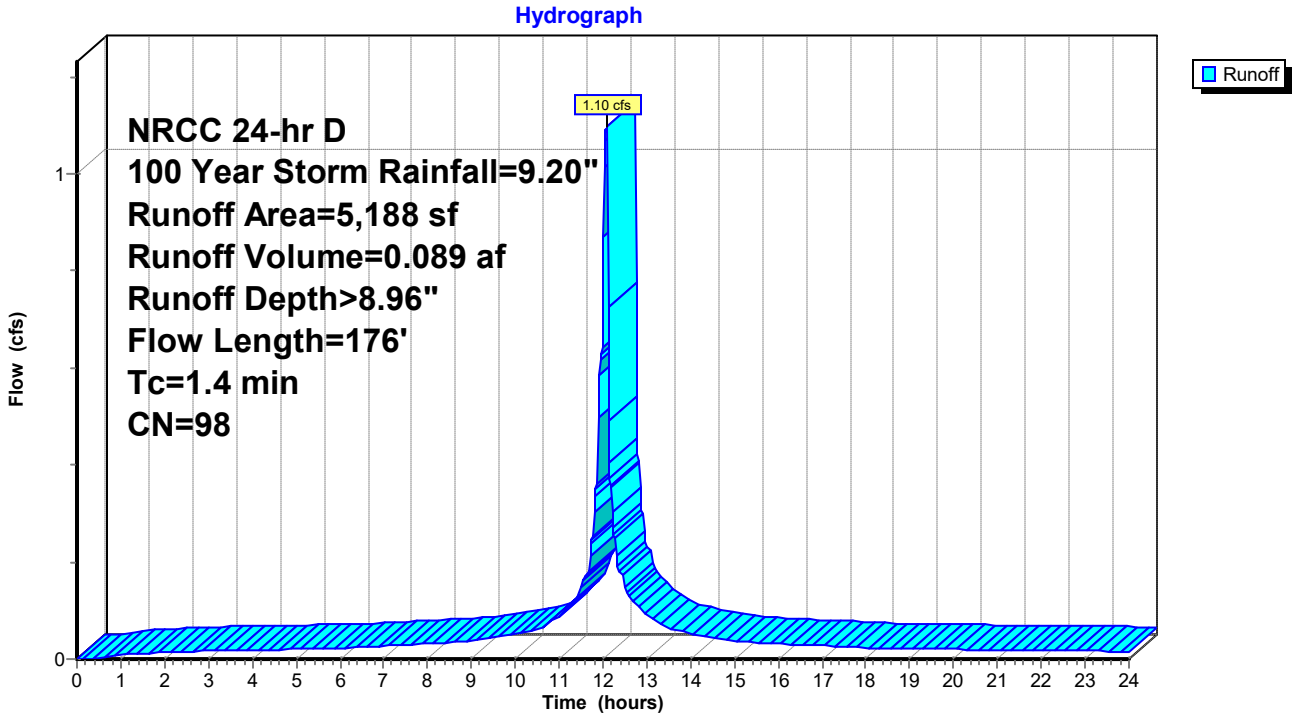
Runoff = 1.10 cfs @ 12.09 hrs, Volume= 0.089 af, Depth> 8.96"
Routed to Reach PIPE 1 : PIPE 1 157 L.F.

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NRCC 24-hr D 100 Year Storm Rainfall=9.20"

Area (sf)	CN	Description
5,188	98	Paved roads w/curbs & sewers, HSG B
5,188		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0500	2.08		**Sheet Flow,** Smooth surfaces n= 0.011 P2= 3.50"
0.6	76	0.0100	2.03		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
1.4	176	Total			

Subcatchment DRIVE D: Drive D To Street



Hydrograph for Subcatchment DRIVE D: Drive D To Street

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.01
1.50	0.20	0.07	0.01
2.00	0.28	0.13	0.01
2.50	0.35	0.19	0.02
3.00	0.43	0.26	0.02
3.50	0.51	0.33	0.02
4.00	0.59	0.40	0.02
4.50	0.68	0.48	0.02
5.00	0.77	0.57	0.02
5.50	0.86	0.65	0.02
6.00	0.95	0.74	0.02
6.50	1.05	0.84	0.02
7.00	1.16	0.94	0.03
7.50	1.27	1.06	0.03
8.00	1.40	1.18	0.03
8.50	1.54	1.32	0.03
9.00	1.69	1.47	0.04
9.50	1.86	1.64	0.04
10.00	2.06	1.84	0.05
10.50	2.30	2.07	0.06
11.00	2.61	2.38	0.09
11.50	3.08	2.85	0.13
12.00	4.41	4.17	**0.64**
12.50	6.12	5.88	**0.17**
13.00	6.59	6.35	0.10
13.50	6.90	6.66	0.06
14.00	7.14	6.90	0.05
14.50	7.34	7.10	0.05
15.00	7.51	7.27	0.04
15.50	7.66	7.42	0.03
16.00	7.80	7.56	0.03
16.50	7.93	7.69	0.03
17.00	8.04	7.80	0.03
17.50	8.15	7.91	0.03
18.00	8.25	8.01	0.02
18.50	8.34	8.10	0.02
19.00	8.43	8.19	0.02
19.50	8.52	8.28	0.02
20.00	8.61	8.37	0.02
20.50	8.69	8.45	0.02
21.00	8.77	8.53	0.02
21.50	8.85	8.61	0.02
22.00	8.92	8.68	0.02
22.50	9.00	8.76	0.02
23.00	9.07	8.83	0.02
23.50	9.13	8.89	0.02
24.00	**9.20**	**8.96**	0.02

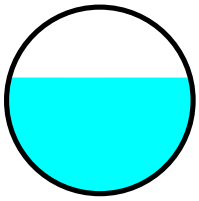
Summary for Reach PIPE 1: PIPE 1 157 L.F.

Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 8.96" for 100 Year Storm event
Inflow = 1.10 cfs @ 12.09 hrs, Volume= 0.089 af
Outflow = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af, Atten= 0%, Lag= 1.0 min
Routed to Pond CB 1 : CB STREET

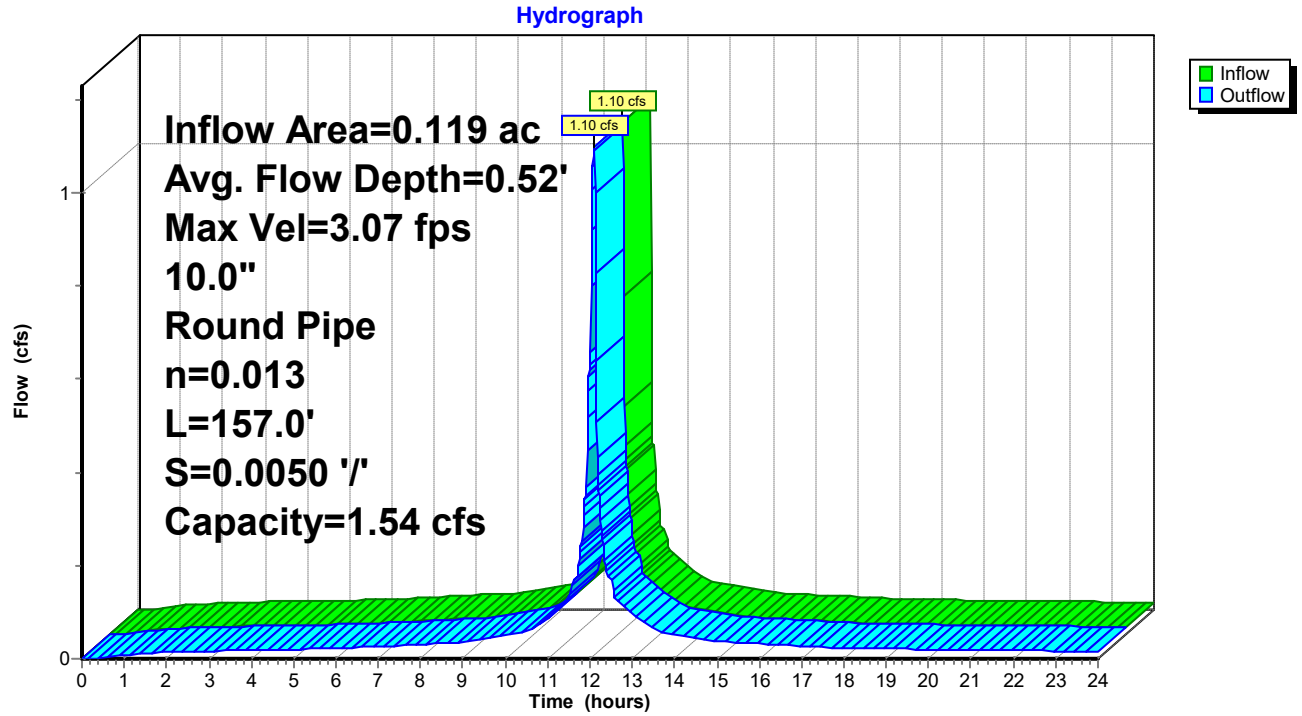
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.07 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.13 fps, Avg. Travel Time= 2.3 min

Peak Storage= 56 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.52' , Surface Width= 0.81'
Bank-Full Depth= 0.83' Flow Area= 0.5 sf, Capacity= 1.54 cfs

10.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 157.0' Slope= 0.0050 '/'
Inlet Invert= 485.37', Outlet Invert= 484.59'



Reach PIPE 1: PIPE 1 157 L.F.



Hydrograph for Reach PIPE 1: PIPE 1 157 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	485.37	0.00
0.50	0.00	1	485.39	0.00
1.00	0.01	2	485.41	0.01
1.50	0.01	2	485.42	0.01
2.00	0.01	2	485.43	0.01
2.50	0.02	3	485.43	0.02
3.00	0.02	3	485.43	0.02
3.50	0.02	3	485.43	0.02
4.00	0.02	3	485.43	0.02
4.50	0.02	3	485.44	0.02
5.00	0.02	3	485.44	0.02
5.50	0.02	3	485.44	0.02
6.00	0.02	3	485.44	0.02
6.50	0.02	4	485.44	0.02
7.00	0.03	4	485.45	0.03
7.50	0.03	4	485.45	0.03
8.00	0.03	4	485.45	0.03
8.50	0.03	5	485.45	0.03
9.00	0.04	5	485.46	0.04
9.50	0.04	6	485.47	0.04
10.00	0.05	6	485.47	0.05
10.50	0.06	7	485.48	0.06
11.00	0.09	9	485.50	0.09
11.50	0.13	12	485.53	0.13
12.00	**0.64**	**37**	**485.74**	**0.63**
12.50	**0.17**	**14**	**485.56**	**0.17**
13.00	0.10	10	485.51	0.10
13.50	0.06	7	485.49	0.07
14.00	0.05	6	485.48	0.05
14.50	0.05	6	485.47	0.05
15.00	0.04	5	485.46	0.04
15.50	0.03	5	485.46	0.03
16.00	0.03	4	485.45	0.03
16.50	0.03	4	485.45	0.03
17.00	0.03	4	485.45	0.03
17.50	0.03	4	485.44	0.03
18.00	0.02	4	485.44	0.02
18.50	0.02	3	485.44	0.02
19.00	0.02	3	485.44	0.02
19.50	0.02	3	485.44	0.02
20.00	0.02	3	485.44	0.02
20.50	0.02	3	485.44	0.02
21.00	0.02	3	485.43	0.02
21.50	0.02	3	485.43	0.02
22.00	0.02	3	485.43	0.02
22.50	0.02	3	485.43	0.02
23.00	0.02	3	485.43	0.02
23.50	0.02	3	485.43	0.02
24.00	0.02	3	485.43	0.02

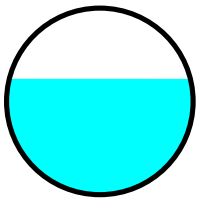
Summary for Reach PIPE 2: PIPE 2 26 L.F.

Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 8.95" for 100 Year Storm event
Inflow = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af
Outflow = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.1 min

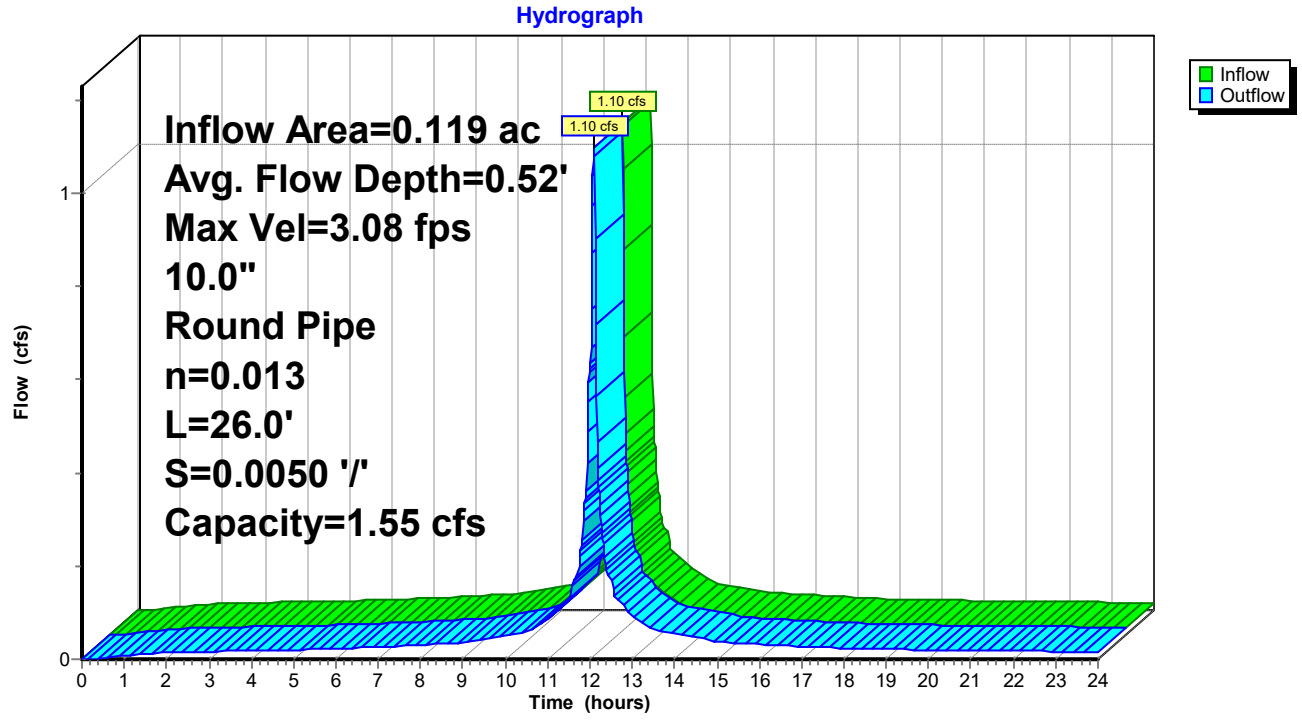
Routing by Stor-Ind+Trans method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Max. Velocity= 3.08 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 1.13 fps, Avg. Travel Time= 0.4 min

Peak Storage= 9 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.52' , Surface Width= 0.81'
Bank-Full Depth= 0.83' Flow Area= 0.5 sf, Capacity= 1.55 cfs

10.0" Round Pipe
n= 0.013 Corrugated PE, smooth interior
Length= 26.0' Slope= 0.0050 '/'
Inlet Invert= 484.59', Outlet Invert= 484.46'



Reach PIPE 2: PIPE 2 26 L.F.



Hydrograph for Reach PIPE 2: PIPE 2 26 L.F.

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)
0.00	0.00	0	484.59	0.00
0.50	0.00	0	484.61	0.00
1.00	0.01	0	484.63	0.01
1.50	0.01	0	484.64	0.01
2.00	0.01	0	484.65	0.01
2.50	0.02	0	484.65	0.02
3.00	0.02	0	484.65	0.02
3.50	0.02	0	484.65	0.02
4.00	0.02	1	484.65	0.02
4.50	0.02	1	484.66	0.02
5.00	0.02	1	484.66	0.02
5.50	0.02	1	484.66	0.02
6.00	0.02	1	484.66	0.02
6.50	0.02	1	484.66	0.02
7.00	0.03	1	484.67	0.03
7.50	0.03	1	484.67	0.03
8.00	0.03	1	484.67	0.03
8.50	0.03	1	484.67	0.03
9.00	0.04	1	484.68	0.04
9.50	0.04	1	484.69	0.04
10.00	0.05	1	484.69	0.05
10.50	0.06	1	484.70	0.06
11.00	0.09	1	484.72	0.09
11.50	0.13	2	484.75	0.13
12.00	**0.63**	**6**	**484.96**	**0.63**
12.50	**0.17**	**2**	**484.78**	**0.17**
13.00	0.10	2	484.73	0.10
13.50	0.07	1	484.71	0.07
14.00	0.05	1	484.70	0.05
14.50	0.05	1	484.69	0.05
15.00	0.04	1	484.68	0.04
15.50	0.03	1	484.68	0.03
16.00	0.03	1	484.67	0.03
16.50	0.03	1	484.67	0.03
17.00	0.03	1	484.67	0.03
17.50	0.03	1	484.66	0.03
18.00	0.02	1	484.66	0.02
18.50	0.02	1	484.66	0.02
19.00	0.02	1	484.66	0.02
19.50	0.02	1	484.66	0.02
20.00	0.02	1	484.66	0.02
20.50	0.02	1	484.66	0.02
21.00	0.02	1	484.65	0.02
21.50	0.02	0	484.65	0.02
22.00	0.02	0	484.65	0.02
22.50	0.02	0	484.65	0.02
23.00	0.02	0	484.65	0.02
23.50	0.02	0	484.65	0.02
24.00	0.02	0	484.65	0.02

Summary for Pond CB 1: CB STREET

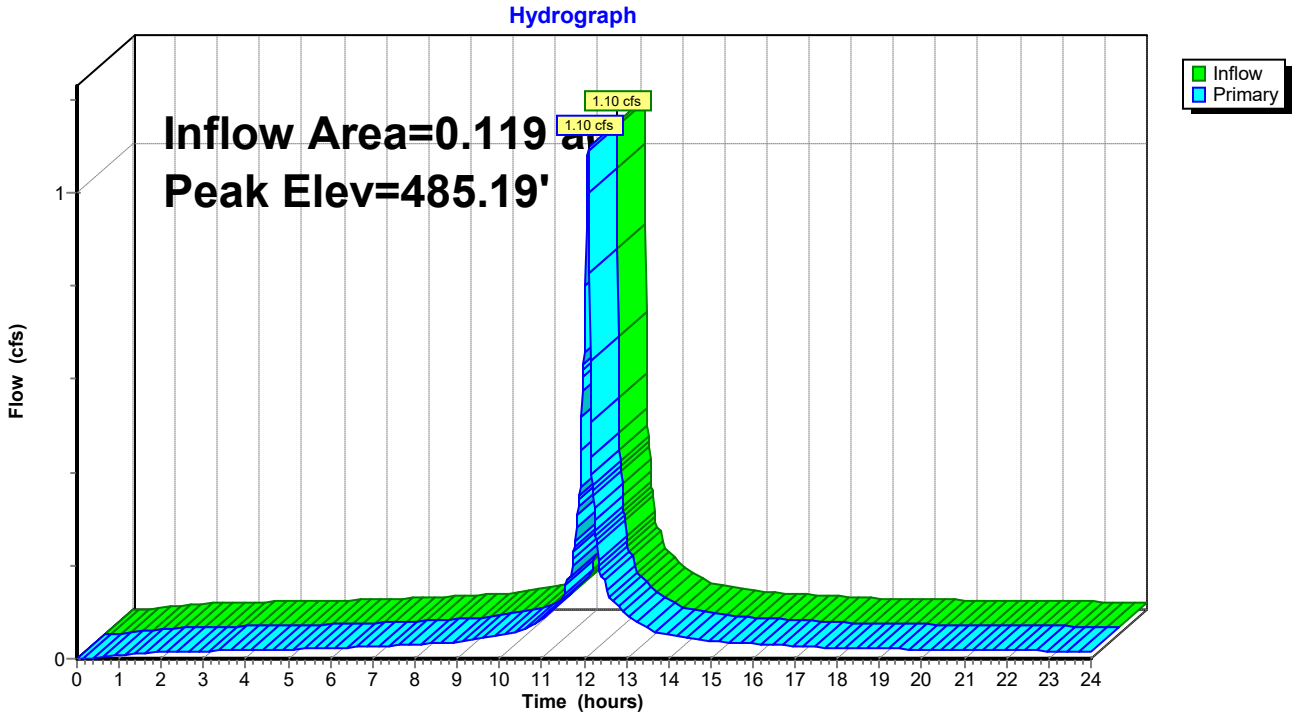
Inflow Area = 0.119 ac,100.00% Impervious, Inflow Depth > 8.95" for 100 Year Storm event
Inflow = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af
Outflow = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 1.10 cfs @ 12.11 hrs, Volume= 0.089 af
Routed to Reach PIPE 2 : PIPE 2 26 L.F.

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
Peak Elev= 485.19' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	484.59'	**10.0" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.10 cfs @ 12.11 hrs HW=485.19' (Free Discharge)
1=Orifice/Grate (Orifice Controls 1.10 cfs @ 2.63 fps)

Pond CB 1: CB STREET



Hydrograph for Pond CB 1: CB STREET

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	484.59	0.00
0.50	0.00	484.61	0.00
1.00	0.01	484.63	0.01
1.50	0.01	484.64	0.01
2.00	0.01	484.65	0.01
2.50	0.02	484.65	0.02
3.00	0.02	484.65	0.02
3.50	0.02	484.66	0.02
4.00	0.02	484.66	0.02
4.50	0.02	484.66	0.02
5.00	0.02	484.66	0.02
5.50	0.02	484.66	0.02
6.00	0.02	484.66	0.02
6.50	0.02	484.67	0.02
7.00	0.03	484.67	0.03
7.50	0.03	484.67	0.03
8.00	0.03	484.68	0.03
8.50	0.03	484.68	0.03
9.00	0.04	484.68	0.04
9.50	0.04	484.69	0.04
10.00	0.05	484.70	0.05
10.50	0.06	484.71	0.06
11.00	0.09	484.74	0.09
11.50	0.13	484.77	0.13
12.00	**0.63**	**485.02**	**0.63**
12.50	**0.17**	**484.80**	**0.17**
13.00	0.10	484.75	0.10
13.50	0.07	484.72	0.07
14.00	0.05	484.71	0.05
14.50	0.05	484.70	0.05
15.00	0.04	484.69	0.04
15.50	0.03	484.68	0.03
16.00	0.03	484.68	0.03
16.50	0.03	484.68	0.03
17.00	0.03	484.67	0.03
17.50	0.03	484.67	0.03
18.00	0.02	484.67	0.02
18.50	0.02	484.66	0.02
19.00	0.02	484.66	0.02
19.50	0.02	484.66	0.02
20.00	0.02	484.66	0.02
20.50	0.02	484.66	0.02
21.00	0.02	484.66	0.02
21.50	0.02	484.66	0.02
22.00	0.02	484.66	0.02
22.50	0.02	484.66	0.02
23.00	0.02	484.65	0.02
23.50	0.02	484.65	0.02
24.00	0.02	484.65	0.02