Planning Commission
April 21, 2026 - 6:00 PM
233 South Main Street, Monroe, Ohio

Call to Order

Roll Call

Approval of Minutes

- March 17, 2026 Planning Commission Meeting Minutes

Old Business

New Business

- **Case No. 2026-4-3—Consideration of a Site Plan and Conditional Use Permit for a New High School Building**

Administrative Reports

Adjournment

Planning Commission
March 17, 2026
233 South Main Street, Monroe, Ohio

Call to Order

Mr. Duckworth, Chair, called the meeting to order at 6:00p.m.

Roll Call

Planning Commission members present: Andrew Hall, Robert Duckworth, Christina McElfresh, Matt Romito

Planning Commission member absent: Debbie Hagedorn

Mrs. McElfresh made a motion to excuse Mrs. Hagedorn from the meeting. Seconded by Mr. Hall. Voice vote. Motion carried.

Staff members present: Jameson Cole, Planner; Michelle Layman, Planning and Zoning Specialist.

Election of Officer Positions

Mr. Duckworth asked for nominations for Planning Commission Chair. Mrs. McElfresh moved to nominate Mr. Duckworth. Seconded by Mr. Hall. Voice vote. Motion carried.

Mr. Duckworth asked for nominations for Planning Commission Vice Chair. Mrs. McElfresh moved to nominate Mr. Hall. Seconded by Mr. Romito. Voice vote. Motion carried.

Mr. Duckworth asked for nominations for Planning Commission Secretary. Mrs. McElfresh moved to nominate Mr. Romito. Seconded by Mr. Hall. Voice vote. Motion carried.

Approval of Minutes

Mrs. McElfresh moved to approve the minutes from the November 18, 2025, Planning Commission meeting; seconded by Mr. Romito. Voice vote. Motion carried.

Old Business

None

New Business

Mr. Duckworth opened Case No. 2026-3-1- Community Investment Area (CRA) Housing Council Appointment.

Mr. Cole presented the background as follows:

ORC 3735.69 requires that all Community Investment Area (CRA) agreements have a Housing Council. The Housing Council is a seven-member body:

- 2 members appointed by the mayor.
- 2 members appointed by City Council
- 1 member appointed by the Planning Commission
- 2 residents appointed by the foregoing five members

Mr. Cole presented the roles and responsibilities follows:

- Conduct annual inspection(s) of properties within the CRA for which a property tax exemption has been granted; and
- Hears appeals under ORC 3735.70
    - Any person aggrieved under sections 373565 to 3735.69 of the Revised Code may appeal to the community reinvestment area housing council, which shall have the authority to overrule any decision of a housing officer. Appeals may be taken from a decision of the council to the court of common pleas of the county where the area is located.
- Does not have powers to revoke exemptions

It is anticipated that the Housing Council will meet once a year in the March time frame to discuss the building with the CRA agreement(s).

Mr. Hall moved to recommend Shawn Dickens to the Housing Council. Seconded by Mr. Romito. Voice vote. Motion carried.

Public Hearing

Mr. Duckworth opened the public hearing for Case No. 2026-3-2- Consideration of a Zoning Map Amendment for Project Shakti.

Mr. Duckworth stated the request will be presented by Staff. Following this presentation, anyone wishing to speak in favor of the proposal will be given an opportunity to speak. After all proponents have spoken, the opponents will be given an opportunity to present their case. Speakers are asked not to repeat the same ideas which have been previously

presented but indicate that they agree with a previous speaker. All persons speaking are subject to cross examination and must be sworn. Planning Commission has the opportunity to question any speaker after they have completed their presentation. Once the public hearing is closed, individual speakers have no right to comment during discussion by the Planning Commission.

Mr. Duckworth asked that all those wishing to speak during this public hearing (including staff) to stand and raise their right hand to be sworn in.

Having been sworn in, Mr. Cole presented the background as follows:

- Larissa Addison on behalf of InSite Real Estate Investment Properties LLC has submitted a request to rezone property located at 3500 Salzman Ave.
- The applicant seeks to rezone the property from L-I Light Industrial to H-I Heavy Industrial to align the property with industrial growth patterns in the region.
- The site is approximately 47.1 acres.

Mr. Cole reviewed different views of the property (overhead view, northeast from Salzman Road, east from Salzman Road, southeast from Salzman Road). Mr. Cole stated part of this process also takes into consideration the future land use of this area.

Mr. Cole reviewed the Zoning Amendment as follows:

- Common Review Criteria. All applicable common review criteria as denoted in Table 1207.07-1, Common Review Criteria;

  The request meets all applicable common review criteria. One common review criterion asks whether the request is consistent with the Comprehensive Plan's applicable policies. The request meets this in particular with regard to the goals of economic development, as it seeks to create a more diverse tax base and well-paying jobs while also protecting the community's character by reusing a recently closed industrial facility.

- Changing Conditions. The proposed amendment corrects an error or meets the challenge of some changing condition, trend, or fact since the time that the original map designations were established;

  Although the conditions have not necessarily changed since the adoption of the current zoning map in spring 2024, some trends indicate growth in the region, specifically along the I-75 corridor, with development patterns shifting toward higher-intensity logistics and manufacturing operations.

- Impact Mitigation. The proposal helps to mitigate adverse impacts of the use and development of land on the natural or built environments, including, but not limited to, mobility, air quality, water quality, noise levels, stormwater management, and vegetation, or will be neutral with respect to these issues; Typically, any development has an impact on the natural environment, but in this case, there will be none until a user occupies the space. If and when any site improvements or alterations are made, those improvements will be required to meet or exceed all Ohio Building Codes, State Fire Codes, and any applicable City standards, as well as relevant environmental and operational standards.

- Community Need. Whether the proposed amendment addresses a demonstrated community need;

  This zoning amendment will facilitate job growth by providing a more appealing opportunity for prospective businesses to occupy the recently closed Kohl's location. The Closure of that facility has had a significant impact on the City, resulting in the loss of more than 700 jobs. Any ability to bring in fresh manufacturing and logistics businesses to reclaim this space would be extremely beneficial to the City and the local workforce.

- Strategic Objectives. The proposal advances the strategic objectives of the City Council, such as fiscal responsibility, efficient use of infrastructure and public services, and other articulated City objectives; and

  The proposed development aligns with the City Council's strategic objectives. Designating the area for Heavy Industrial use allows for a large recently closed facility to be redeveloped and once again become an impactful facility for the City and local workforce. This proposal directly supports the City's goals of fostering job creation, expanding the local tax base, and attracting long-term private investment.

- No Single Factor and Case Determination. No single factor listed above may control and not all factors may be applicable in each case. Each case shall be determined on its own facts.

Mr. Cole stated no public comments have been received.

Mr. Cole stated department comments as follows:

- Fire Department
  - Fire reserves the right to comment during future submittals
- Police Department

    - No comment at this time. Police reserve the right to comment during future submittals.
- Engineering/Public Works Department
    - No comment at this time. Public Works and Engineering will comment during future submittals.

Mr. Cole reviewed the staff recommendation as follows:

- In Zoning Map Amendment applications, Planning Commission acts as a recommending body to City Council.
- Planning Commission may table the application, recommend approval, recommend approval with conditions, or recommend denial of the application.

Staff recommend Planning Commission make a recommendation for approval to City Council regarding this application.

Mr. Ben Strasser spoke on behalf of Project Shakti.

Mrs. McElfresh asked Mr. Strasser if only half of the building was going to be used at this time for this project. Mr. Strasser verified that, stating they will initially be using 500 thousand square feet of the building. He stated that in the future they may look to re-tenant the area of the building space that is open. Mrs. McElfresh asked if there will be a firewall put in place between the area being used and the vacant area. Mr. Strauser stated there will be one installed.

Mr. Hall asked if there would be any changes to the existing structure. Mr. Strasser stated they will be putting a new roof on the building but no other expected changes.

Mr. Hall asked if operationally they will need to add anything to fulfill the new business operations. Mr. Strasser stated there will be a flew system added to the building which they have been working with the EP on. He stated this will be on the backside of the building and there will be no change in elevation to the building.

Mr. Duckworth asked for examples of high intensity logistics. Mr. Strasser stated it is a global manufacturer producing energy infrastructure solutions. He stated It is a light and noninvasive process. He stated essentially it is the melting down of aluminum materials to produce wires.

Mr. Duckworth asked if there would be any impact on utilities. Mr. Strasser stated it would not.

Mr. Hall asked if there would be any increased noise pollution. Mr. Strasser stated there would not be.

Mrs. McElfresh asked if there would be a traffic impact study completed. Mr. Cole stated that this would be discussed at the site plan level. Mr. Cole also stated the future user said there would only be around one truck daily going in and out for deliveries.

Mr. Duckworth asked for an opponent's. None came forward.

Mr. Hall moved to accept the documents for the record. Seconded by Mrs. McElfresh. Voice vote. Motion carried.

Mr. Hall moved to close the public hearing. Seconded by Mr. Romito. Voice vote. Motion carried.

Mr. Hall stated his issues were addressed during the public hearing.

Mr. Hall asked which area on the zoning map is requesting to be rezoned. Mr. Cole reviewed the map and showed the location.

Mrs. McElfresh stated she has no issues with this change in zoning.

Mr. Duckworth asked about the map area zoned as Employment Center. Mr. Cole addressed this, stating it is a type of zoning that can have a mixed use with more flexibility.

Mr. Romito stated this change gives more versatility to this particular area.

Mr. Hall moved to recommend approval to City Council regarding Case No. 2026-3-2-Consideration of a Zoning Map Amendment for Project Shakti. Seconded by Mr. Romito. Roll call vote. Four ayes, motion carried.

Adjournment

Mrs. McElfresh moved to adjourn the meeting; seconded by Mr. Romito. Voice vote. Motion carried.

The Planning Commission meeting adjourned at 6:30 p.m.

Respectfully submitted,

Michelle Layman
Planning and Zoning Specialist

[AgendaContent]

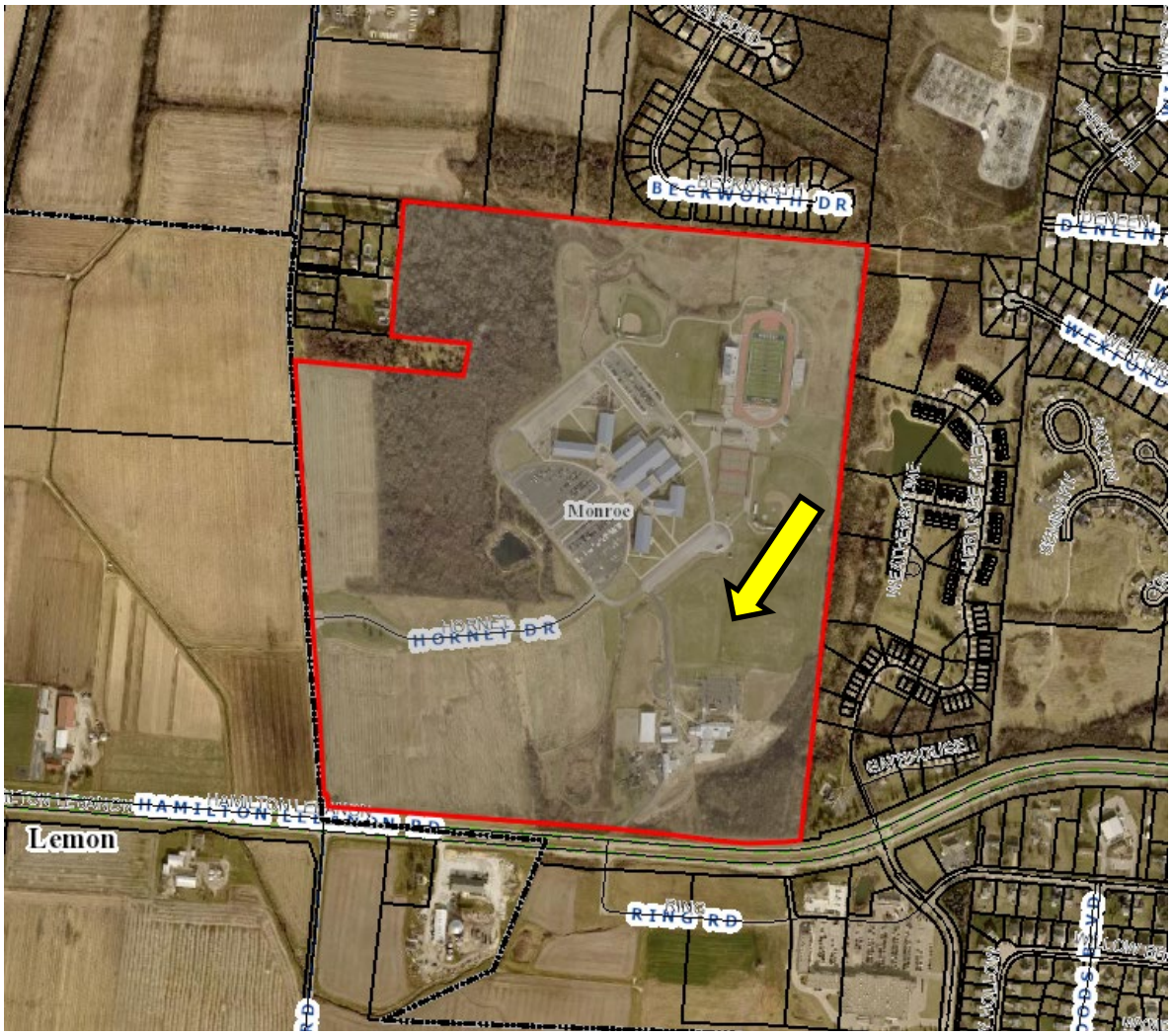
CITY OF MONROE
Inter-Office Correspondence

TO: Members of the Monroe Planning Commission
FROM: Kameryn Jones
Development Director

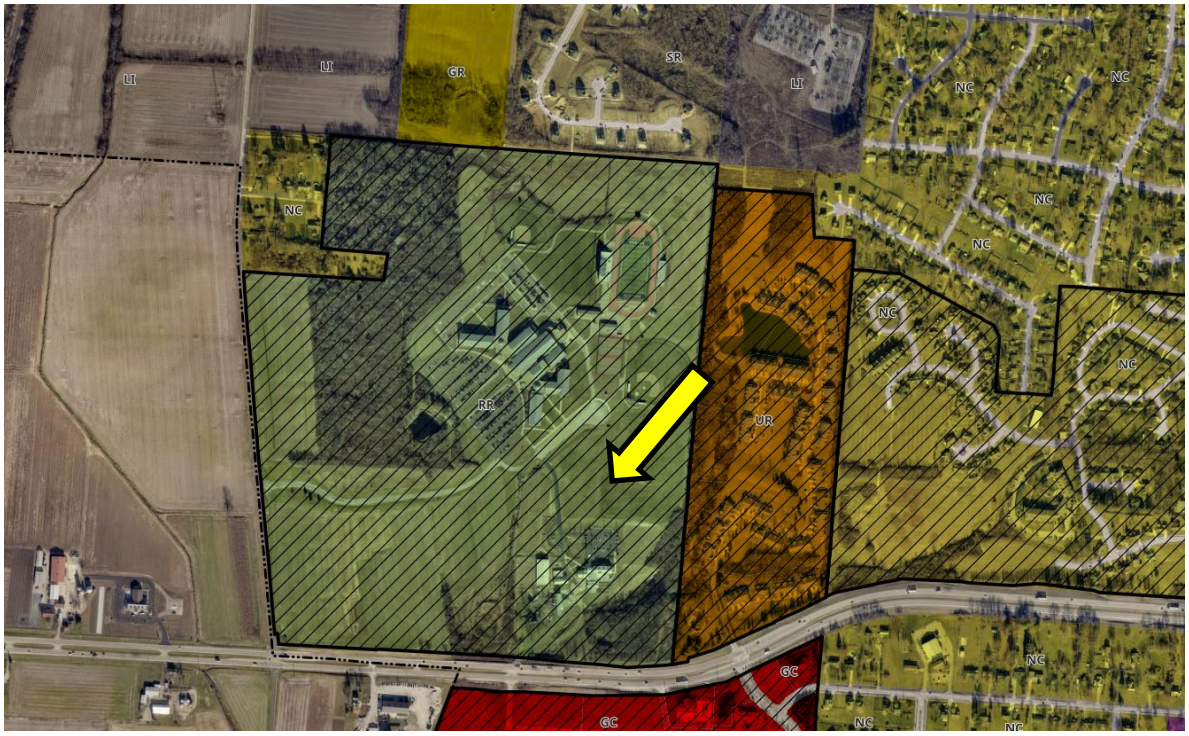
DATE: April 21, 2026
RE: Information Packet for April 21, 2026, Planning Commission Meeting at 6:00 p.m.

I. Case No. 2026-4-3—Consideration of a Site Plan and Conditional Use Permit for a New High School Building

- Thad Rhoden, on behalf of Monroe Local School District, has submitted site plan and conditional use applications for a proposed new high school facility for Monroe Local School District.
- The applicant is proposing a new 142,000 square foot building to house grades 9-12.
- The site is 186.57 acres zoned RR Rural Residential PUD.
- The applicant anticipates construction to start in late spring of 2026 and completion in late spring 2028.



Overhead View of Property



Zoning Map of Proposed Site and Surrounding Properties



Looking east towards the site from the internal road



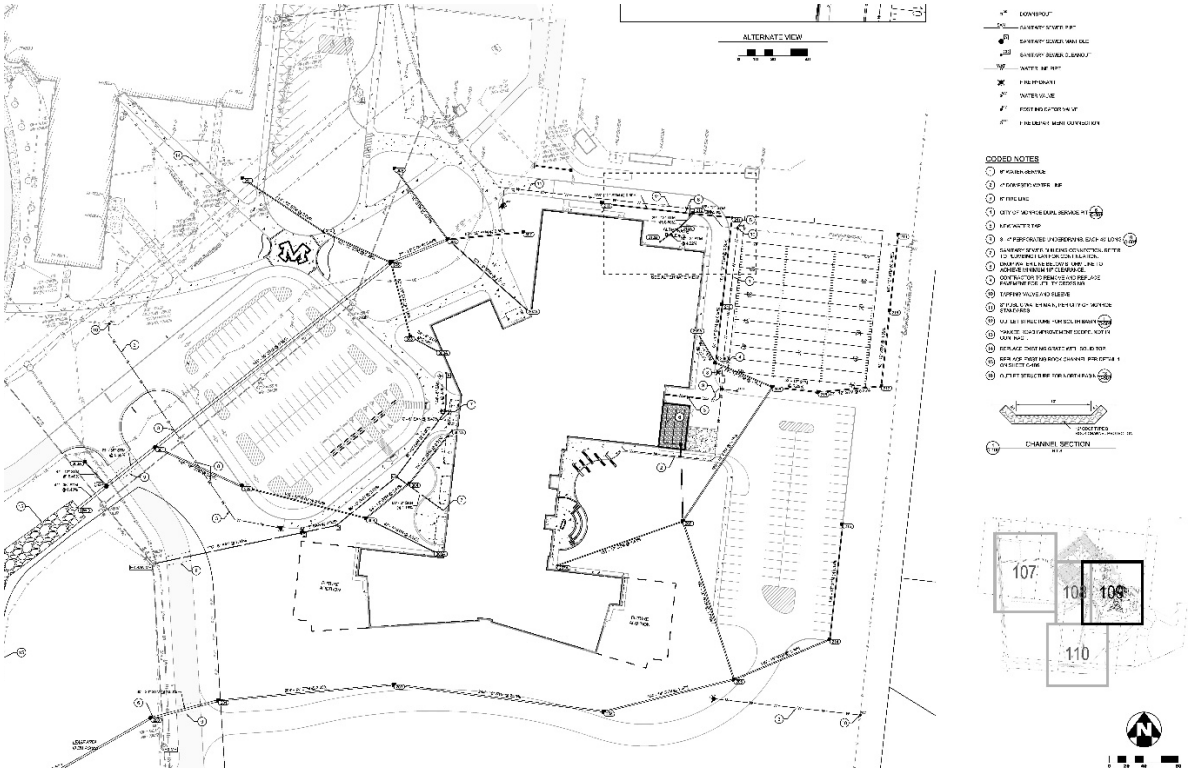
Looking southeast towards the site from the shared parking lot



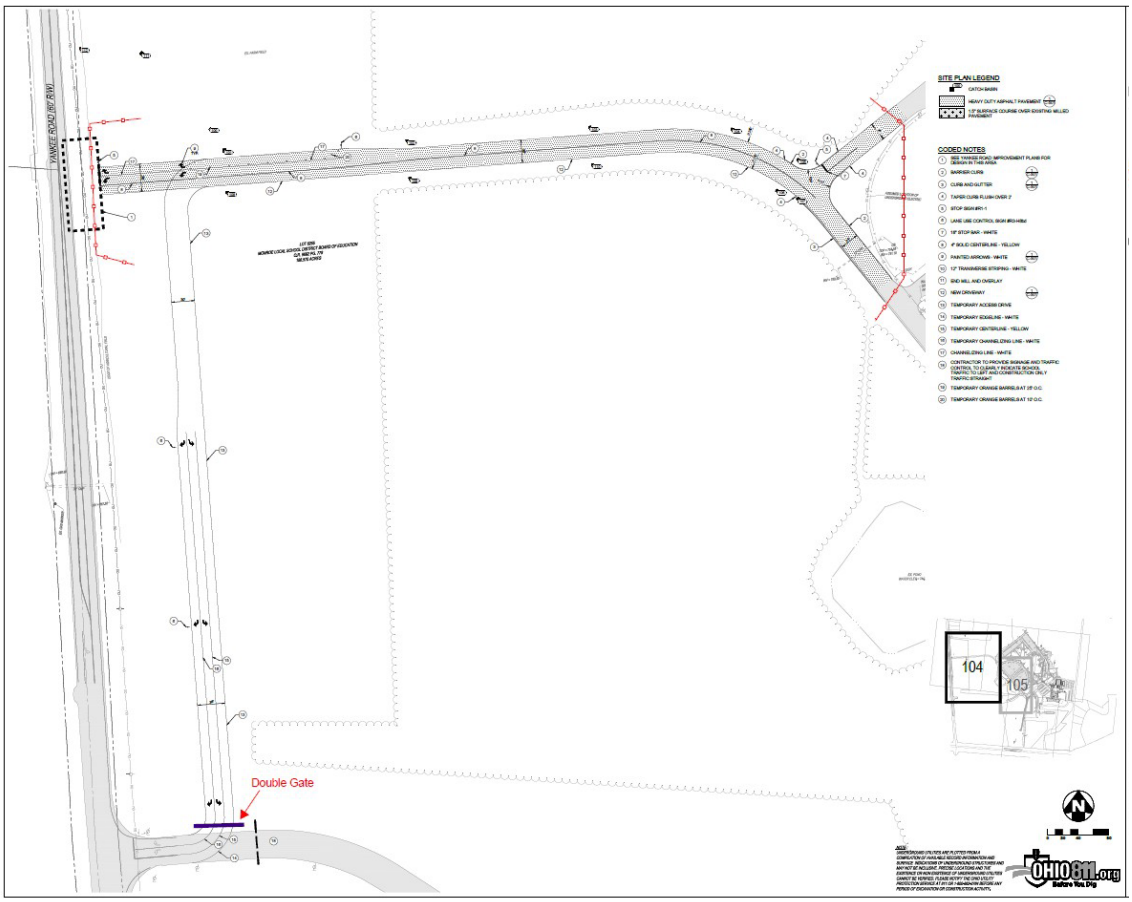
Looking west towards the secondary access road from the internal road



Looking North toward the temporary access road location



Proposed Site Plan



Proposed Site Plan

B. Conditional Use Permit

Because this use is considered a “Secondary Educational Institution,” categorized as a Conditional Use in the Primary Use Table, a Conditional Use permit and review are required for Planning Commission’s consideration in addition to the site plan.

The following standards shall apply to all conditional uses. Planning Commission shall consider the following standards when deciding on a conditional use. Staff has provided feedback where applicable.

- ***The proposed conditional use will operate or be designed in a manner that does not diminish the use or functionality of surrounding properties;***

  The proposed new high school will not diminish the use or functionality of the surrounding properties as the parcel already exists as an educational campus with the existing campus as well as the Butler Tech Natural Science Center.

  As part of the new high school, a secondary access road will be installed to ensure safety and security access to the site at all times for governmental services, as well as bus and car traffic.

- ***The proposed conditional use will incorporate provisions for hours of operation, parking and loading areas, driveways, lighting, signs, landscaping, buffering, and other site improvements;***

  The proposed development incorporates a new access drive, parking, and other site improvements to accommodate the new building and use. This staff report outlines areas that require revision to meet minimum code standards.

- ***The proposed conditional use must have adequate public services (e.g., streets, off-street parking, pedestrian facilities, water, sewer, gas, electricity, and police and fire protection) available without the reduction of services to any existing uses;***

  As part of the new high school development, the site is required to come into compliance with current code standards. These standards include architectural design, parking, circulation, landscaping, signage, outdoor lighting, and other miscellaneous standards. There are numerous areas of this development where clarification or revisions must be made to meet the code's minimum standards. The most important of these areas are pedestrian facilities, water, and fire protection.

  The applicant and the City have been working closely to resolve these issues.

- ***If, in the opinion of Planning Commission or City Council, the conditional use becomes a nuisance, the Conditional Use Permit may be recalled for further review, which could lead to the need for additional conditions, restrictions, or the revocation of the permit;***

- ***The proposed conditional use will incorporate design features to sufficiently protect adjacent uses that may include but are not limited to service areas, pedestrian and vehicular circulation, safety provisions, access ways to and from the site, lighting, screening and buffering, fencing, and building placement; and***

  As stated above and as noted in the staff comments below, the site is required to come into compliance with current code standards. The site is currently deficient in certain safety provisions, such as fire protection and water, which are being addressed with staff. Pedestrian connectivity along Yankee Road, State Route 63, and to the school is not currently included in the plans; however, the applicant is working with staff to address this and ensure compliance. Clarification is also needed regarding lighting and certain parking facilities. These deficiencies and required clarifications will not impact adjacent properties.

- ***The proposed use is compatible with adjacent existing uses. Compatibility shall be expressed in terms of appearance, architectural scale, use and intensity, and features, site design and scope, landscaping, as well as the control of adverse environmental impacts, including noise and lighting, or other undesirable conditions.***

The school district has had a campus at this location for many years. Creating a second school and a third educational facility will create a more pronounced presence than previously, as it is intended to relocate classes from the primary school on Macready Avenue to the current school building at this campus, while using the proposed building as a high school-only building.

C. Staff Comments

- **Landscaping**
  - All parking islands must be curbed and landscaped with the minimum required landscaping.
  - The parking in the rear of the building is missing 8 parking islands.
  - The shared parking lot is missing at least 5 parking islands.
  - All non-parking space vehicular use areas (i.e. access drives, drive-through lanes, etc.) shall be screened with one canopy tree for every 50 linear feet and three shrubs for every 15 linear feet.
    - This does not appear to be met with either access drives to the site or any access drives within the site.
  - Please revise all landscaping in accordance with article 04.05 Landscaping, Screening, and Buffering.
    - Staff are aware of and waive any requirements regarding buffer yards in accordance with the Monroe Local School District PUD.
    - All other standards in this section must be met.
- **Street Trees**
  - Street trees shall be required on all public and private frontages along both sides of all streets, public or private, planted 40 feet on center in the tree lawn.
    - No street trees are proposed. The landscape plan must be revised.

- **Sidewalk/Path**
  - The code requires sidewalks and or paths along all portions of a parcel that front a public or private street as well as a sidewalk connection to the use.
    This requirement is for the full length of the property along Yankee Road and State Route 63.

- **Parking**
  - Parking for the site is based on 1 space per employee + 1 per 5 students.
    - The applicant must provide information on the number of employees and students anticipated for the new school building.
  - It is unclear if the shared parking area between the two schools is intended for bus parking or car parking. Based on the layout shown and the code requirements for parking islands;
    - The applicant will provide a bus turning template to ensure there is adequate space for buses to maneuver.
- **Architectural**
  - Base, Body, Cap Design Elements:

        - The base shall be no less than 8% of the average wall height.
        - The body shall be no less than 60% of the average wall height
        - The cap shall be no less than 8% of the average wall height and not exceed the height of the base.
    - The applicant must show the Base, Body, Cap percentages on the elevations to ensure compliance.
- **Screening**
    - All mechanical equipment, including both ground-mounted and roof-mounted equipment, shall be screened from view from adjacent public and private rights-of-way.
        - Please show any rooftop mechanical equipment to ensure proper screening.
        - Please show any transformers or any ground mounted mechanical equipment with the appropriate screening.

- **Photometric**
    - Illumination is required consistently across the site and shall be designed so as not to create dark spots that may create safety issues in such areas as vehicular use areas and connecting pedestrian paths.
        - The applicant must revise the photometric plan to encompass the entire site.

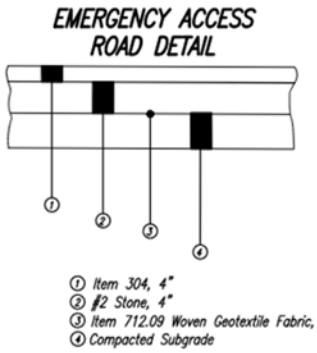
D. Department Comments

- **Fire Department:**
    - The underground fire service line shall be designed with a redundant feed configuration to ensure reliable fire flow under all conditions, in accordance with applicable NFPA standards and the Ohio Fire Code. The looped underground fire line serving the existing building shall be interconnected with the proposed building's fire line to establish a dependable, campus-wide fire protection water system.
    - Keep proposed southwest hydrant.
    - Keep proposed northwest hydrant.
    - Keep proposed southwest public hydrant.
    - Provide additional hydrant at the northwest corner, south of the football field.
    - Provide a secondary feed for the looped underground fire line near the new school access road. Include vault, FDC, and public hydrant per Monroe standards. Location and design shall be approved by the Fire Department and Monroe Water Works.
    - Sheet C103: Multiple gates shown. Provide approved fire department access at all gates, including Knox locking devices.
    - Sheet C103: Maintain drive access at all times during construction. Keep access clear of all materials and equipment. (See engineer detail.)
    - Sheet C130: Construction driveway shall be constructed of approved material capable of supporting 75,000 lbs. (See engineer detail.)

- Fire hydrants shall be installed and operational prior to the commencement of vertical construction. Any hydrant taken out of service shall be reported immediately to the Fire Department.
- Excavation spoil locations shall be clearly indicated on the plans and maintained a minimum distance of 50 feet from all structures.
- Provide sectional control valves on underground fire mains as approved by AHJ.
- Consideration shall be given to the inclusion and placement of a storm shelter within the school layout.
- A Class I standpipe system shall be provided within the building
- The access road to Trails of Todhunter shall be connected to the proposed emergency access road. This connection may be gated, subject to approval.
- Fire lane striping shall be installed prior to project completion per City Code 1610.
- Emergency responder radio coverage. All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building (The test is done by a 3rd party).
- Generators and Fuel tanks must have:
    - Vehicle impact protection.
    - Security against unauthorized entry
- The fire pump room shall be accessible from the outside and the room rated.

- **Police Department:** No comment.
- **Engineering/Public Works Department:** Engineering review ongoing.
    - Temporary access Road:
        - The center line on the road needs to be a double yellow.
    - Provide an emergency access road around the construction site and maintain it until the permanent drive is installed. This temporary access road can be installed and then used as the base for the permanent drive if the developer sees fit. (Please see an example of how the temporary road should be installed.

NOTES:
1. EMERGENCY ACCESS DRIVE TO BE REMOVED WITHIN 30 DAYS OF INSTALLATION OF INTERMEDIATE COURSE THAT CONNECTS SUBDIVISION TO KYLES STATION ROAD.
2. REFER TO "ACCESS REMOVAL PLAN" ON SHEET 3 OF THIS DOCUMENT FOR REMOVAL PROCEDURE.
3. SUB-BASE TO BE PROOF ROLLED IN THE PRESENCE OF A CITY OF MONROE INSPECTOR.
4. #2 STONE SHALL NOT BE PLACED UNTIL THE CITY ACCEPTS THE PROOF ROLL.
5. ALL SIGNAGE TO REMAIN IN PLACE UNTIL THE REMOVAL OF THE ACCESS DRIVE.
6. ALL SIGNAGE SHALL BE MADE OF RETRO-REFLECTIVE FILM MEETING MUTCD STANDARDS.
7. CONTRACTOR TO STABILIZE (SEED AND STRAW) DISTURBED AREAS WITHIN 14 DAYS OF GRADING COMPLETION.



- City engineer's comments regarding the ROW
    - The City will require ROW be dedicated to match the County's throughfare Master Plan which calls out Yankee Road as a Major Collector with a width from center line of 50 feet.
    - Beyond the ROW dedication on Yankee Road, the City will require a 15-foot utility easement per the City's standard section.
    - The City requests a 20-foot water main easement at the back of the utility easement along Yankee Road.
- Butler County and ODOT
    - Monroe Local School District must comply with the requirements as laid out in the TIS approval letter from Butler County.

E. Staff Recommendation

- Staff recommends approval of the Conditional Use and Site Plan applications with the following conditions:
    - The landscape plan be revised to address staff report comments.
    - A turning templet for the bus parking area be submitted to staff.
    - The vehicular use landscaping pertaining to Hornet Drive shall be installed in accordance with Table 1204.20-1 Development Landscaping Requirements within 5 years of occupancy.
        - This shall be enforceable by emergency injunction after 5 years following building occupancy issuance has lapsed and if the applicant has not complied with the condition above.

        - The condition can be waived if the school obtains a variance through the Board of Zoning Appeals that waives the requirement to install the landscaping as laid out in the condition above.
- All landscaping must meet all minimum species and size requirements and be detailed appropriately on the plan.
- Street trees be installed as addressed in the staff report.
- The sidewalks and or paths shall be installed per 1205.06 Sidewalks and Trails along Yankee Rd and SR63 as well as connecting to the school campus within 5 years of occupancy.
    - This shall be enforceable by emergency injunction after 5 years following building occupancy issuance has lapsed and if the applicant has not complied with the condition above.
        - The condition can be waived if the school obtains a variance through the Board of Zoning Appeals that waives the requirement to construct the sidewalk and or path as laid out in the condition above.
- The parking be clarified and revised to meet minimum code requirements as well as be deigned to ensure safety between buses, cars, and pedestrians.
- The building elevations be revised to ensure the base, body, and cap requirement are met.
- All ground-mounted and rooftop equipment must be appropriately screened as approved by Staff.
- The photometric plan be revised to encompass the entire site.
- All Engineering review comments be addressed.
- Monroe Local School District comply with the requirements as laid out in the TIS approval letter from Butler County. Non-compliance with these requirements will directly impact the conditional use status of this project.
- All Fire review comments be addressed.
- The applicant will be responsible for maintenance (mowing, etc.) of the right-of-way adjacent to the developed site once improvements are complete.
- Digital files of final plans compatible with City GIS be submitted.
- All other Staff comments be met.

Application for Site Plan Review

Monroe Development Department
233 South Main Street, Monroe, Ohio 45050
Phone: 513-539-7374
planning@monroeohio.gov
www.monroeohio.gov

For Staff Use Only	
Submittal Date:	
Date Application Determined Complete:	
Date of Planning Commission Review:	
Fee Paid:	Staff Initials:
Application Number:	

Site Plan Review Information

1. The site plan review procedure and applicability requirements are established in Section 1207.15 of the Monroe Planning and Zoning Code.
2. Prior to submitting this application, you are required to meet with staff from the Development Department for a pre-application conference. Please contact the department to schedule the conference.
3. City of Monroe staff reviews all site plan review applications unless requiring another application (ex: CUP).
4. Approval of a site plan does not constitute approval to begin construction. Applicants with approved site plans are required to submit all applicable zoning permit and building permit applications.
5. Unless an alternative timeline is approved by Staff, construction related to the approved site plan must begin within one year of the site plan approval or the approval shall be voided.

Basic Project and Site Information

Project Address: 220 Yankee Rd, Monroe, OH 45050

County: ☑ Butler ☐ Warren | Total Lot Area: 186.57 acres

County Tax Parcel ID: C1800004000037

Project/Development Name: New Monroe High School

Existing Zoning District: RR - Rural Residential

Project Type: ☑ New Construction Building/Site ☐ Expansion of Existing Structure
☐ Addition to Site (e.g., parking, landscaping, lighting, etc.)

Applicant Information

Applicant Name: Thad Rhoden (Architect, Fanning Howey)

Contact Person: Thad Rhoden

Contact Address: 5200 Upper Metro Place, Suite 350

Contact Phone Number: 614.764.4661 | Contact Fax Number:

Contact E-Mail: trhoden@fhai.com

Property Owner Name: Monroe Local Schools District Board of Education

The applicant may provide separate attachment with contact information for additional people, if necessary (e.g., additional owners, registered engineer, landscape architect, etc.). The same contact information shall be provided for each contact name.

Project Address or Tax Parcel ID: 220 Yankee Rd, Monroe, OH 45050

Additional Project Information

1) Please describe, in detail, any existing uses and/or buildings on the project site.

Existing uses include a school building serving grades 2-12, playgrounds, a football stadium, athletic fields (baseball and softball), tennis courts, and accessory athletic buildings.

2) Please describe, in detail, the proposed uses and the proposed development. Provide a summary of the square footage related to each use and/or the total number of proposed dwelling units.

Proposed use includes a new 98,434 square foot high school building detached from current school building. Alternate for adding a multi-purpose physical education room is 1032 sf. Future classroom additions are being planned for, approximately 2,500 square feet for each building wing as shown on the site plan. Site scope includes new drives for pick-up/drop-off, service, and parking, pedestrian connections to existing school and existing athletic fields, new 50 yard practice field, and outdoor learning areas.

3) What are the anticipated start and completion dates for the project?

Start Date: 4/1/2026	Completion Date: 5/26/2028

4) What is the estimated value (in dollars) of the proposed property improvements?

$43,352,950

5) Check any relevant procedural reviews applicable to this project (previously approved only):

☑ Conditional Use ☐ Variance ☐ Administrative Waiver ☐ Alternative Equivalent Compliance

If you checked any of the above procedures, please provide specific details on what waivers, variances, etc. were approved through the applicable review procedure? Provide the application/case numbers for any related applications.

Project Address or Tax Parcel ID: 220 Yankee Rd, Monroe, OH 45050

Additional Project Information Continued

6) Does the project require any addition permits, licenses, or reviews by outside agencies (e.g., Butler or Warren County, ODNR, OEPA, etc.). ☑ Yes ☐ No If yes, please describe below.

Once site plans have been approved, a building permit review performed by the National Inspection Corporation (NIC) and fire department.

Certification and Signatures

Applicant Signature - I certify that, to the best of my knowledge, the information contained in this form and within any attachments is correct and truthful. I understand that knowingly falsifying this information may be grounds for the denial or revoking of this application and any subsequent zoning permit or other review applications.

Print Name: Thad Rhoden

Signature:

Date: 2.3.26

Property Owner Signature - If the property owner is not the named applicant on this form, the property owner shall sign the form below acknowledging that the applicant is an authorized agent of the property owner as it relates to proposed project. If the site plan review is for multiple properties, a signature from each property owner is required.

Print Name: J. Robert Buskirk

Signature:

Date: 2/3/26

Note: A letter signed by the property owner, authorizing the applicant to act on their behalf may be submitted in lieu of the property owner's signature on this form.

Submittal Requirement Checklist All drawings shall be prepared by a professional engineer or surveyor, licensed in Ohio	
Digital Submittal Requirements	
☑	All document applications shall be submitted in a compatible electronic format to planning@monroeohio.gov.
☑	As-builts are required in CAD (DWG) format and must include: parcel boundaries, centerlines, water, sanitary, and storm structures and mains, manhole rim and invert elevations. Files must be projected to Ohio State Plane South (NAD83)
General Information	
☑	Site Plan Review Application form
☐	Application fee
☐	Engineer's Estimate (updated with each submittal)
☐	Scales: Site (1"=20' or 1"=30'), Utility (1"=20' horizontal, 1"=5' vertical for profiles), Grading (1"=10'), Detail Sheets (1"=10')
☑	Any additional information determined to be necessary by the Development Department
Vicinity Map (Scale may be smaller than 1" = 100')	
☑	Date, north arrow, scale, and a legend for all symbols
☑	Project location
☑	All surrounding properties, streets, and corporation limits within a minimum of 500' of the outer boundaries of the project site
Existing Conditions Map	
☑	All existing zoning district classifications on the site and adjacent to the site
☑	Parcel boundaries of the site and all parcels adjacent to the site
☑	Names of all subdivisions and land owners owning lots adjacent to the site
☑	Existing streets within 200' of site with names and centerlines
☐	Existing watercourses and bodies of water including any applicable flood hazard areas
☑	Planned road network (including street names if available) within 500' of site (if different from existing streets)
☑	Existing land uses on the site and adjacent parcels (including across any streets)
☐	Railroad infrastructure and rights-of-way
☑	All existing easements (including drainage) with dimensions and designation as to type
☑	Location of existing curb cuts, private streets, parking and loading areas, pedestrian walks, lighting facilities, and outside trash storage facilities
Site Layout Plan	
☑	Lot numbers and sizes
☑	Square footage (gross) of existing buildings to remain and proposed buildings
☑	Required front, side, and rear yard width/setbacks
☐	All existing and proposed easements, including dimensions and type (e.g., drainage, access, public utility, etc.)
☑	Location, width, and classification of all existing and proposed streets in the development
☐	Location of any outdoor storage area(s) that require screening
☐	Locations of all proposed external street connections (including street stubs)
☑	Location, width, and materials of all sidewalks, trails, and paths (including connections to the public sidewalk system and adjacent developments)

Submittal Requirement Checklist	
Parking Plan and Traffic Control Plan	
☑	Traffic impact study, if required by the City Engineer
☑	Notation of total number of parking spaces, loading spaces, and stacking spaces required by ordinance
☑	Total number, dimensions, and location of parking spaces proposed off-street, on-street, and within parking structures, including information on ADA parking spaces
☑	Number, location, and size of parking, stacking, loading spaces provided
☑	Location, arrangement, and dimensions of vehicular entrances, exits and parking lot aisles
☑	Location of pedestrian walkways and crossings
☐	AutoTurn to show site can accomodate largest Fire emergency vehicle.
☑	Proposed traffic control devices (in accordance with the Manual on Uniform Traffic Control Devices)
☑	Signing and striping plan
☑	Fire lanes and areas of parking prohibition
☐	Location of all sight triangles
Stormwater Management Sheet and Drainage Plan	
☐	SWPPP and SWMP (standalone doc) that demonstrate compliance with Chapter 1028 of Monroe Codified Ordinances, OEPA Construction General Permit
☐	Drainage basin(s) where the site is located and drainage patterns
☑	Existing and proposed locations, types, and sizes of drainage structures and calculations demonstrating how post-development runoff will not exceed pre-development runoff
☑	Erosion and siltation control measures and devices with narrative, including location of outfall for stormwater to catch basin (indicated sizes and slopes of existing pipes)
☐	Drainage computations from proposed development to proper pickup point
☑	All proposed elevations and slopes for grading
☐	Description of maintenance procedures for stormwater management devices
Utilities Plan	
☑	Existing and proposed locations, types, and sizes of all water, sanitary sewer, storm sewer, gas, telephone, power and other utility lines and meters, easements, and any other utilities affected by the site (includes above ground, grades and computations where appropriate)
☑	Notation that all new utilities shall be placed underground
☐	Locations where existing overhead utilities will be relocated underground (if applicable)
☐	Identification of any connections, above or below ground, that are located within the City of Monroe's right-of-way
Landscaping Plan	
☑	Exact locations, dimensions, and counts of existing and proposed landscape materials provided within and around vehicular use areas, including the size of landscaping islands
☑	Exact locations and counts of existing and proposed landscape materials provided within any required buffer areas including the type of buffer used, the buffer width provided, the proposed configuration of trees, shrubs, and screening features
☑	Location, size, and species of all existing and proposed street trees
☑	The total number of trees and shrubs provided, and the total number of different species planted
☑	Notations for any existing landscape within sight triangles indicating maximum shrub height or tree canopy height

Submittal Requirement Checklist	
☐	Location and amount of credit towards landscape material requirements provided by existing landscaping
☑	Demarcation of existing trees to be removed
☐	Location and amount of all open space set-aside areas by development phase
☑	Details of all open space improvements and common features (e.g., fountains, benches, street furnishings, play equipment, etc.)
Architectural and Building Elevation Plans	
☑	Color elevations for each building (principal and accessory), illustrating compliance with the architectural standards of the applicable zoning district
☑	Dimensions, in feet, of all façade recesses or similar fenestration
☑	Preliminary floor plan for principal buildings
☑	Height of all buildings in feet, including number of building stories
☐	Accessory structure size(s), if applicable
☐	Accessory structure height(s), if applicable
☑	Description of the type of material(s) used on each façade elevation
☐	Illustrative elevation of all fencing, walls, and retaining walls visible from a street, open space, or public building that will be used for buffering or screening of adjacent residential uses, dumpsters, service structures, utilities, parking areas, loading areas, and similar activity areas
Lighting Plan	
☐	Location, type, and height of all lighting fixtures (including street lights)
☐	Details on colors and materials for all lighting fixtures
☐	Grid or photometric diagram showing maximum illumination values throughout the site up to the lot line, and uniformity ratios within parking lots, measured in footcandles
Signage Plan *(for reference only- signage is approved separately)*	
☑	All sign areas, dimensions, and height (including shape)
☑	Position of all signs in relation to the use being advertised (may be identified on the site layout plan)
☐	Location and style of all address numbers, building numbers, or allowable building identifications
☐	Plan of illumination for the sign including information on message timing for electronic message centers
☐	Landscaping around base of sign (may be identified on the landscaping plan)

Application for a Conditional Use Permit

Monroe Development Department
233 South Main Street, Monroe, Ohio 45050
Phone: 513-539-7374
planning@monroeohio.gov
www.monroeohio.gov

For Staff Use Only	
Submittal Date:	
Date Application Determined Complete:	
Date of Planning Commission Review:	
Fee Paid:	Staff Initials:
Application/Case Number:	

Conditional Use Permit Review Information

1. The conditional use permit review procedure and review criteria are established in Section 1207.20 of the Monroe Planning and Zoning Code.
2. Some conditional uses may be subject to use-specific standards in addition to the general review criteria for all conditional uses. Such use-specific criteria will be identified in Section 1203.05.
3. If the applicant is proposing a development that will also require a site plan review, such review shall occur simultaneously and the applicant shall submit a site plan review application.
4. The Monroe Planning Commission reviews all conditional use permit applications.
5. The application fee for a conditional use is due at the time the application is submitted.

Basic Project and Site Information

Project Address: 200 Yankee Rd, Monroe, OH 45050

County: ☑ Butler ☐ Warren | Total Lot Area: 186.57 acres

County Tax Parcel ID: C1800004000037

Project/Development Name: New Monroe High School

Existing Zoning District: RR - Rural Residential

Proposed Use: ☐ Residential ☐ Commercial ☐ Office ☐ Industrial ☑ Public or Institutional Use ☐ Mixed Use

Applicant Information

Applicant Name: Thad Rhoden

Contact Person: Thad Rhoden

Contact Address: 5200 Upper Metro Place, Suite 350

Contact Phone Number: 614.764.4661 | Contact Fax Number:

Contact E-Mail: trhoden@fhai.com

Property Owner Name: Monroe Local Schools District Board of Education

The applicant may attach a separate sheet of a paper with contact information for additional people, if necessary (e.g., additional owners, registered engineer, landscape architect, etc.). The same contact information shall be provided for each contact name.

Project Address or Tax Parcel ID: 220 Yankee Rd, Monroe, OH 45050

Conditional Use Permit Information Continued

2) Please describe, in detail, the proposed use of the site.

New high school building and associated parking lots.

3) Describe how the proposed use will be harmonious with the existing or intended character of the general vicinity, and that such use will not change the essential character of the same area.

The existing site is institutional in nature and the new high school will not change the essential character of the area.

4) Describe how the proposed use addresses applicable conditional use standards in Section 1203.05.

Proposed site plan meets minimum requirements for lot size and setbacks.

Certification and Signatures

Applicant Signature - I certify that, to the best of my knowledge, the information contained in this form and within any attachments is correct and truthful. I understand that knowingly falsifying this information may be grounds for the denial or revoking of this conditional use application and any subsequent zoning permit or other review applications.

Print Name: Thad Rhoden

Signature:

Date: 2.3.26

Property Owner Signature - If the property owner is not the named applicant on this form, the property owner shall sign the form below acknowledging that the applicant is an authorized agent of the property owner as it relates to proposed project.

Print Name: J. Robert Buskirk

Signature:

Date: 2/3/26

Note: A letter signed by the property owner, authorizing the applicant to act on their behalf may be submitted in lieu of the property owner's signature on this form.

Submittal Requirement Checklist	
Digital Submittal Requirements	
☑	All document applications shall be submitted in a compatible electronic format to planning@monroeohio.gov.
General Information	
☑	Application fee.
☑	Plans and maps at a scale no smaller than 1 inch = 100 feet. Paper copies may be required based on project specifics. *See Submittal Requirement Checklist for Site Plan Review application.*
☑	Traffic Impact Study, if required by the City Engineer.
☑	Any additional information determined to be necessary by the Development Department
☑	Final mylars and digital files of all maps and plans will be required after approval
Note: Any addition or alteration of landscaping, lighting, or parking will require a site plan review and the applicant shall be responsible for completing the site plan review application and submitting the necessary information.	
Existing Conditions Map	
☑	All existing zoning district classifications on the site and adjacent to the site
☑	Parcel boundaries of all parcels adjacent to the site
☑	Names of all subdivisions and property owners of lots adjacent to the site
☑	Location of existing buildings, structures, curb cuts, parking and loading areas, lighting fixtures, outside trash storage facilities, fences, outdoor display or storage, and other built or impervious surfaces.
☑	Location of existing vegetation (general location) to be maintained

GENERAL NOTES

1. THE CITY OF MONROE, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF MONROE REQUIREMENTS, THE CITY OF MONROE REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC, SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE, INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE TO IMPORT OR EXPORT ALL SOIL MATERIALS AS NECESSARY TO CONSTRUCT THE SITE TO THE DESIGN ELEVATIONS.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF MONROE AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION, PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC, AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
25. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MONROE. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF MONROE AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
26. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
27. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER.
28. WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, AWWA C151 OR PVC AWWA C900, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24. WATERLINE 2 INCHES AND UNDER TO BE TYPE "K" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYTUBING.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/7, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

GENERAL NOTES

C-001

H:\Engineering\2021-2025\P\222101.02\05_CAD_Sheets\0108SCDGEN03.dwg, 2/27/2026 1:43:12 PM, bbeuchur

PROJECT DATA

PROJECT DESCRIPTION
NEW 9-12 SCHOOL WITH PARKING AND PRACTICE FIELD
NEW DRIVE OFF YANKEE ROAD

LATITUDE:	N 39°26'52.30"
LONGITUDE:	W 84°22'52.60"
ESTIMATED CONSTRUCTION DATES:	FEBRUARY 2026 - AUGUST 2028
TOTAL SITE AREA:	186.57 ACRES
TOTAL DISTURBED AREA:	19.86 ACRES
EXISTING IMPERVIOUS AREA:	19.21 ACRES
PROPOSED IMPERVIOUS AREA:	8.86 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	26.09 ACRES
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C= 0.41
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C= 0.43
IMMEDIATE RECEIVING WATER/MS4:	TRIBUTARY TO DICKS CREEK
ULTIMATE RECEIVING STREAM:	GREAT MIAMI RIVER
EXISTING LAND USE:	MULTI-USE GRASS PRACTICE FIELDS
SOILS (HIGH SCHOOL):	RIUB - RUSSELL-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES RwB2 - RUSSELL-MIAMIAN SILT LOAMS, BEDROCK SUBSTRATUM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED RwUB2 - RUSSELL-MIAMIAN, BEDROCK SUBSTRATUM-URBAN LAND COMPLEX, TO 2 TO 6 PERCENT SLOPES, MODERATELY ERODED XfUB - XENIA, BEDROCK RUBSTRATUM-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES
SOILS (NEW DRIVE):	EcE2 - EDEN SILTY CLAY LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED UnB - UNIONTOWN SILT LOAM, 2 TO 6 PERCENT SLOPES WeB - WEA SILT LOAM, 2 TO 6 PERCENT SLOPES WyC2 - WYNN SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT	_____	
PROJECT ENGINEER	_____	

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

_____ _____

_____ _____

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC, OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) SYNTHETIC BINDERS-FOR STRAW MULCH. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			•	•	•	*	*	*	•	•		
DORMANT SEEDING	•	•	•							•	•	•
TEMPORARY SEEDING			•	•	•	*	*	*	•	•		
SODDING			**	**	**	**	**	**	**			
MULCHING	•	•	•	•	•	•	•	•	•	•	•	•

* IRRIGATION NEEDED

** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED. AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

PERMITTEE

NAME
ADDRESS1
ADDRESS2
PHONE:
FAX:
CONTACT:
EMAIL:

GENERAL PERMIT: OHC000006

NPDES PERMIT: _____

DATE OF ISSUE: _____

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

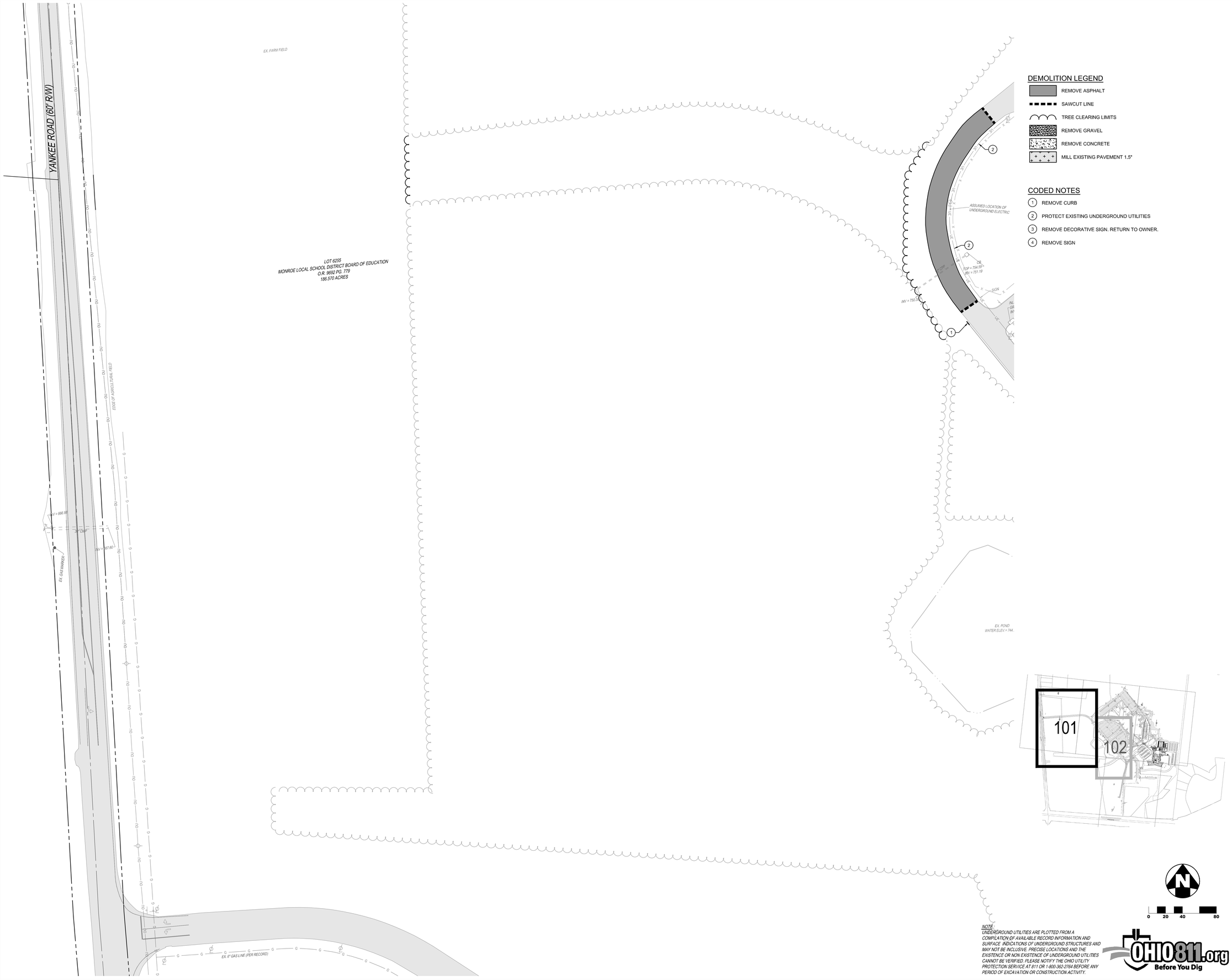
614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH



DEMOLITION LEGEND

- REMOVE ASPHALT
- SAWCUT LINE
- TREE CLEARING LIMITS
- REMOVE GRAVEL
- REMOVE CONCRETE
- MILL EXISTING PAVEMENT 1.5"

CODED NOTES

1. REMOVE CURB
2. PROTECT EXISTING UNDERGROUND UTILITIES
3. REMOVE DECORATIVE SIGN. RETURN TO OWNER.
4. REMOVE SIGN

0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. RONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

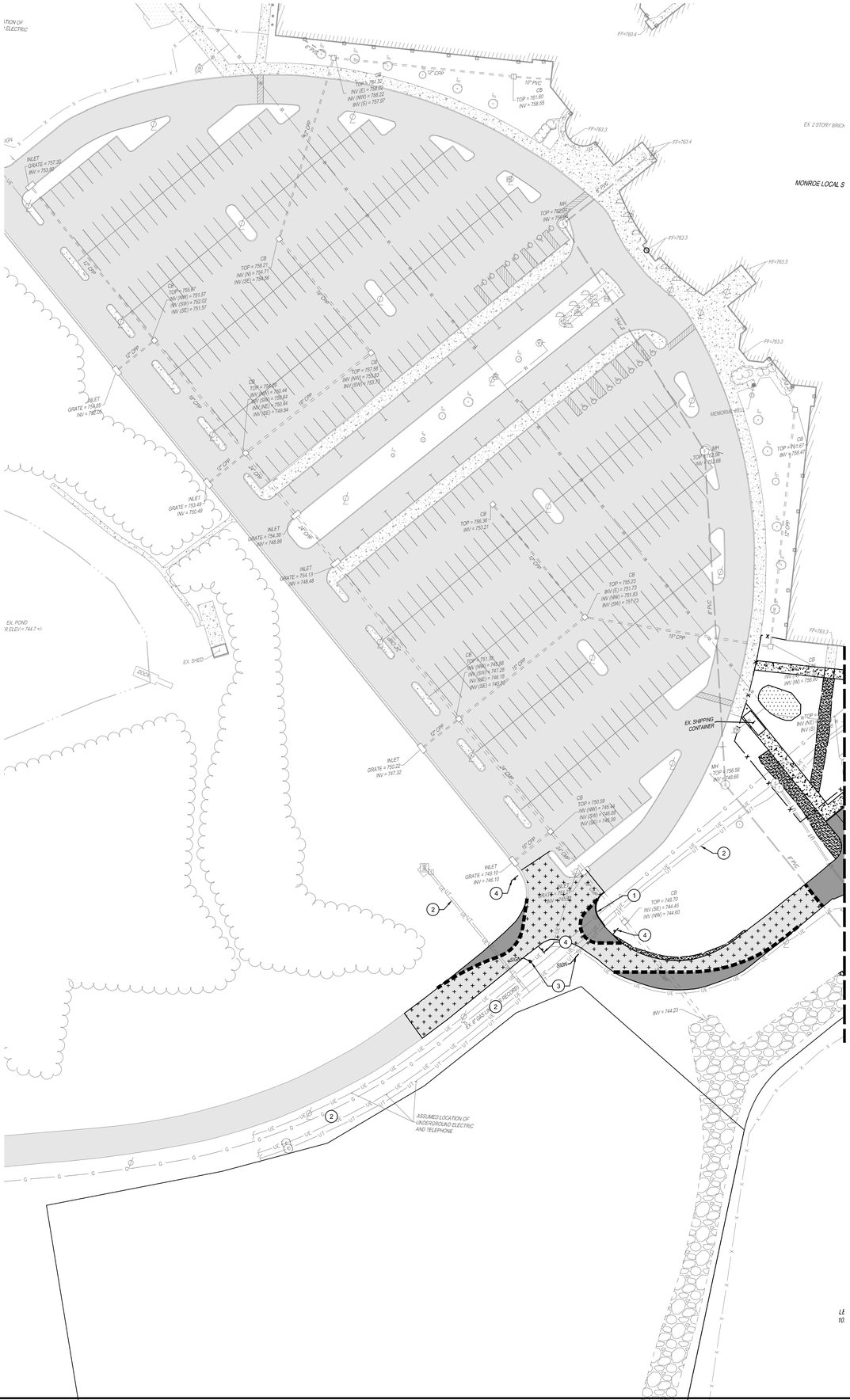
PROJECT ISSUE DATE: 2/27/2026

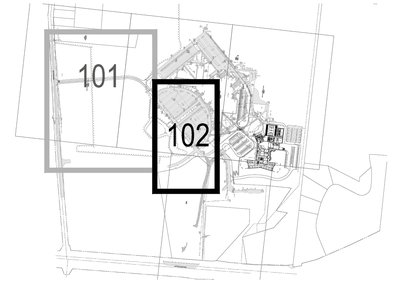
REV NO △	DESCRIPTION	DATE

DEMOLITION PLAN - NEW DRIVE

C-101

I:\Engineering\2021\222021\Design\Civil\Sheets\[1]C101_DEMO_Sheet.dwg, 2/27/2026 1:43:22 PM, tbuchar





0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

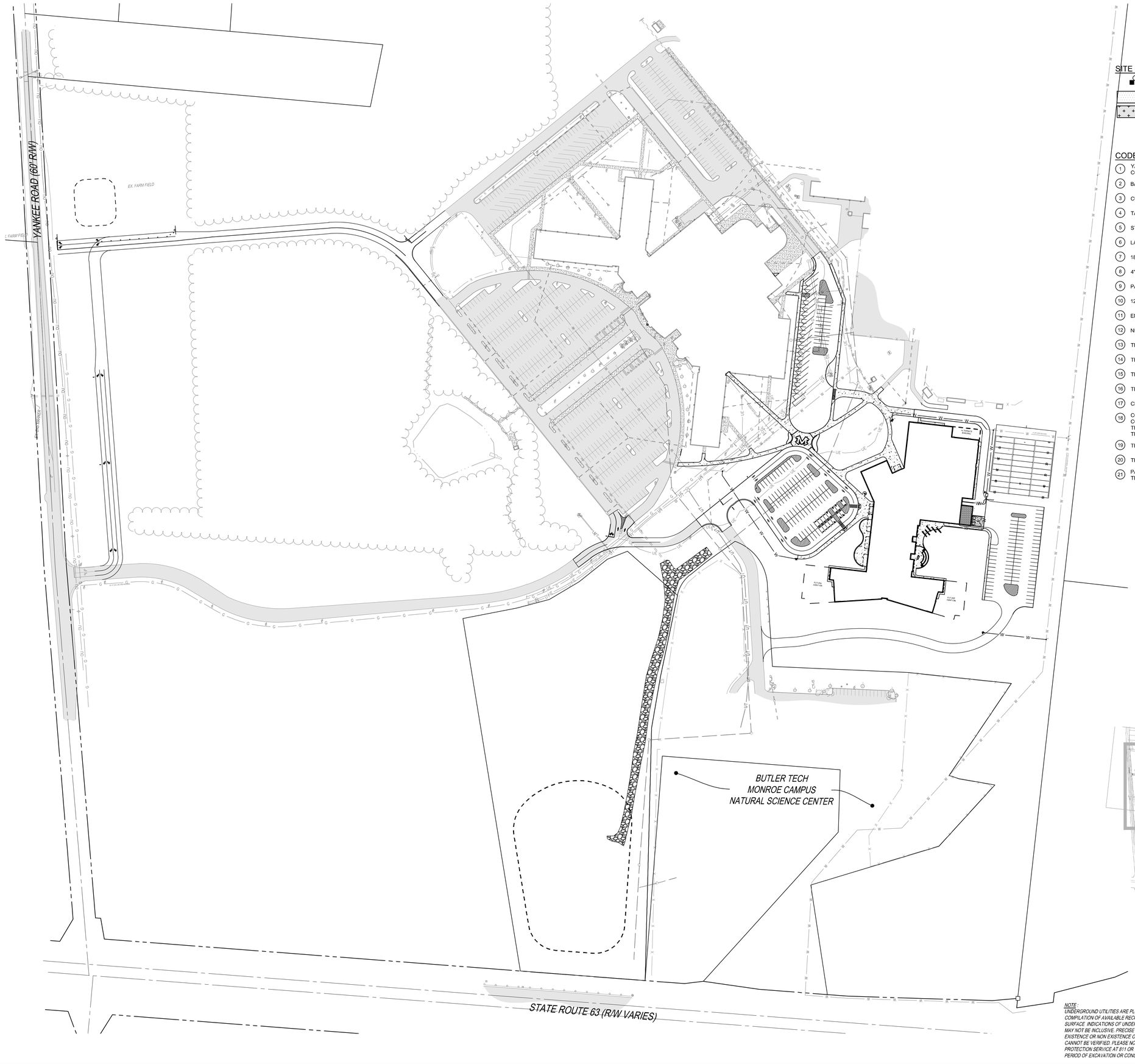
REV. NO △	DESCRIPTION	DATE

DEMOLITION PLAN - INTERSECTION

C-102

I:\Engineering\2021\2021099\222101.02\CAD_Sheets\2021099222101.02CNS23.dwg, 2/27/2026 1:01:21 PM, bbuchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



SITE PLAN LEGEND

- CATCH BASIN
- HEAVY DUTY ASPHALT PAVEMENT (1/C-501)
- 1.5" SURFACE COURSE OVER EXISTING MILLED PAVEMENT

CODED NOTES

1. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
2. BARRIER CURB (2/C-501)
3. CURB AND GUTTER (3/C-501)
4. TAPER CURB FLUSH OVER 2'
5. STOP SIGN #R1-1
6. LANE USE CONTROL SIGN #R3-H8bd
7. 18" STOP BAR - WHITE
8. 4" SOLID CENTERLINE - YELLOW
9. PAINTED ARROWS - WHITE (4/C-501)
10. 12" TRANSVERSE STRIPING - WHITE
11. END MILL AND OVERLAY
12. NEW DRIVEWAY (7/C-501)
13. TEMPORARY ACCESS DRIVE (5/C-501)
14. TEMPORARY EDGELINE - WHITE
15. TEMPORARY CENTERLINE - YELLOW
16. TEMPORARY CHANNELIZING LINE - WHITE
17. CHANNELIZING LINE - WHITE
18. CONTRACTOR TO PROVIDE SIGNAGE AND TRAFFIC CONTROL TO CLEARLY INDICATE SCHOOL TRAFFIC TO LEFT AND CONSTRUCTION ONLY TRAFFIC STRAIGHT
19. TEMPORARY ORANGE BARRELS AT 25' O.C.
20. TEMPORARY ORANGE BARRELS AT 10' O.C.
21. PAVEMENT TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE



0 80 160 320

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

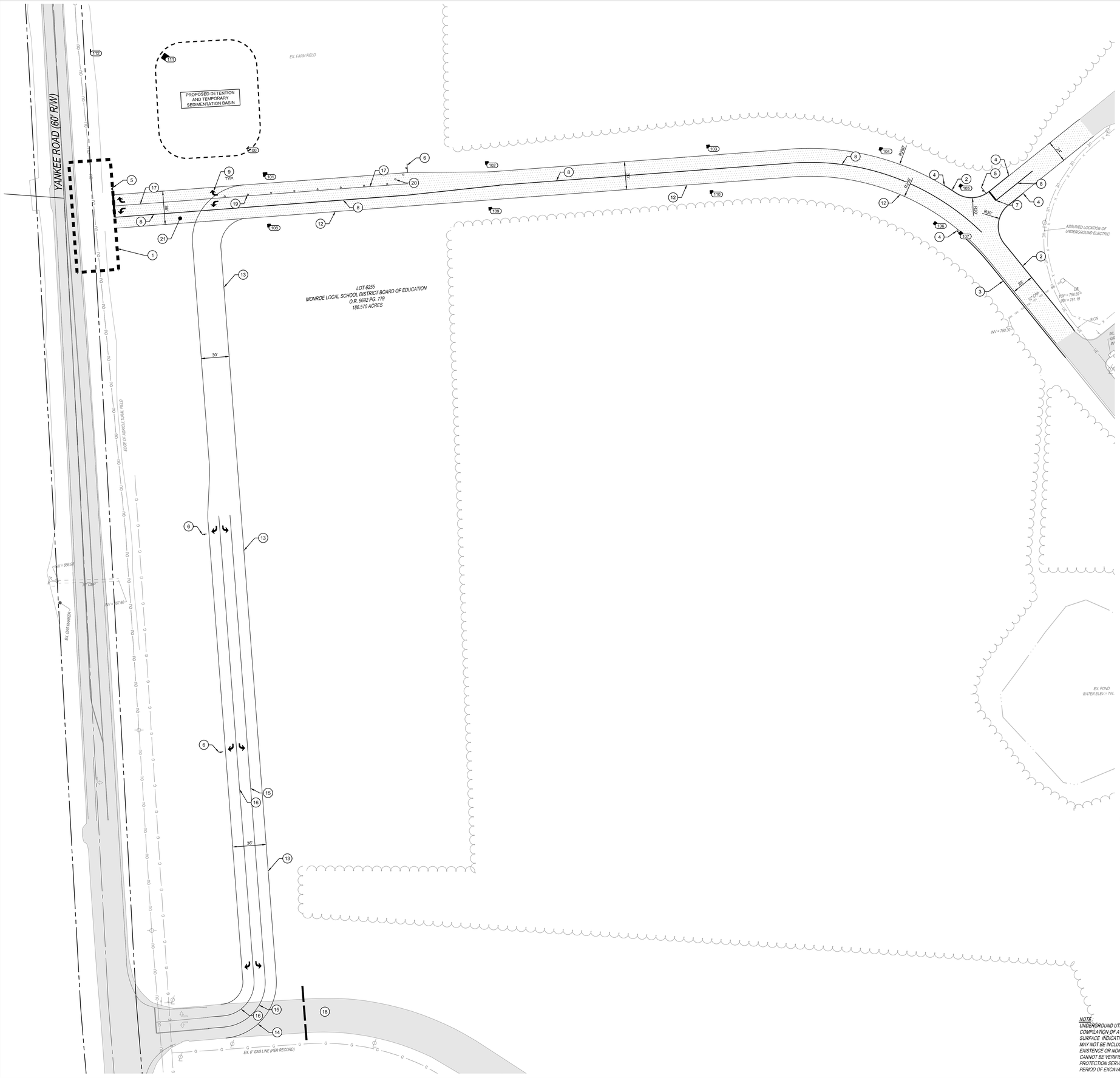
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

OVERALL LOCATION PLAN

C-103

H:\Engineering\2021-2030\Y2022\2222\01_DWG_Sheets\SHEETS\C103.dwg, 2/27/2026 1:43:50 PM, bbuchur



SITE PLAN LEGEND

- CATCH BASIN
- HEAVY DUTY ASPHALT PAVEMENT (1/C-501)
- 1.5" SURFACE COURSE OVER MILLED PAVEMENT

CODED NOTES

1. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
2. BARRIER CURB (2/C-501)
3. CURB AND GUTTER (3/C-501)
4. TAPER CURB FLUSH OVER 2'
5. STOP SIGN #R1-1
6. LANE USE CONTROL SIGN #R3-H8bd
7. 18" STOP BAR - WHITE
8. 4" SOLID CENTERLINE - YELLOW
9. PAINTED ARROWS - WHITE (4/C-501)
10. 12" TRANSVERSE STRIPING - WHITE
11. END MILL AND OVERLAY
12. NEW DRIVEWAY (7/C-501)
13. TEMPORARY ACCESS DRIVE (5/C-501)
14. TEMPORARY EDGELINE - WHITE
15. TEMPORARY CENTERLINE - YELLOW
16. TEMPORARY CHANNELIZING LINE - WHITE
17. CHANNELIZING LINE - WHITE
18. CONTRACTOR TO PROVIDE SIGNAGE AND TRAFFIC CONTROL TO CLEARLY INDICATE SCHOOL TRAFFIC TO LEFT AND CONSTRUCTION ONLY TRAFFIC STRAIGHT
19. TEMPORARY ORANGE BARRELS AT 25' O.C.
20. TEMPORARY ORANGE BARRELS AT 10' O.C.
21. PAVEMENT TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE

0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

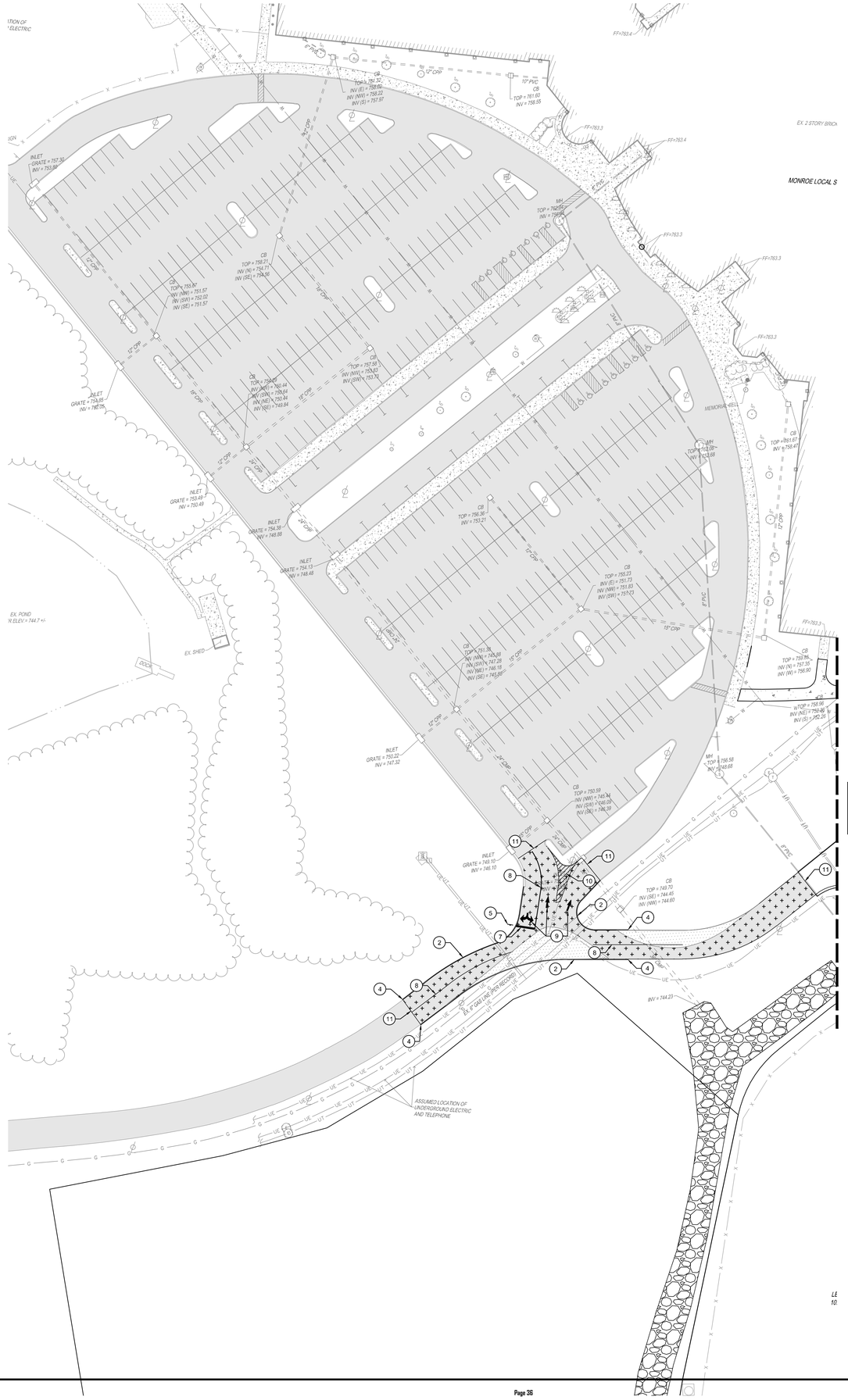
DRAWN BY:
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

LOCATION PLAN - NEW DRIVE

C-104

H:\Engineering\2021\2022\P\2218\02\02\P\2218_02P01_Sheets\2218C02C02P01.dwg, 2/27/2026 1:43:43 PM, lbuchhar

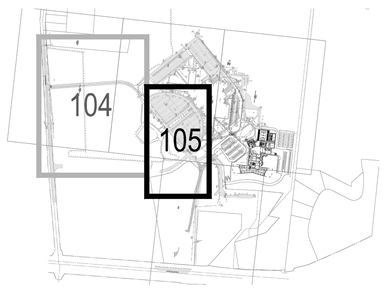


SITE PLAN LEGEND

- CATCH BASIN (100)
- HEAVY DUTY ASPHALT PAVEMENT (1 C-501)
- 1.5" SURFACE COURSE OVER EXISTING MILLED PAVEMENT

CODED NOTES

1. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
2. BARRIER CURB (2 C-501)
3. CURB AND GUTTER (3 C-501)
4. TAPER CURB FLUSH OVER 2'
5. STOP SIGN #R1-1
6. LANE USE CONTROL SIGN #R3-H8bd
7. 18" STOP BAR - WHITE
8. 4" SOLID CENTERLINE - YELLOW
9. PAINTED ARROWS - WHITE (4 C-501)
10. 12" TRANSVERSE STRIPING - WHITE
11. END MILL AND OVERLAY
12. NEW DRIVEWAY (7 C-501)
13. TEMPORARY ACCESS DRIVE (5 C-501)
14. TEMPORARY EDGELINE - WHITE
15. TEMPORARY CENTERLINE - YELLOW
16. TEMPORARY CHANNELIZING LINE - WHITE
17. CHANNELIZING LINE - WHITE
18. CONTRACTOR TO PROVIDE SIGNAGE AND TRAFFIC CONTROL TO CLEARLY INDICATE SCHOOL TRAFFIC TO LEFT AND CONSTRUCTION ONLY TRAFFIC STRAIGHT
19. TEMPORARY ORANGE BARRELS AT 25' O.C.
20. TEMPORARY ORANGE BARRELS AT 10' O.C.
21. PAVEMENT TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Exp. 12/31/26

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

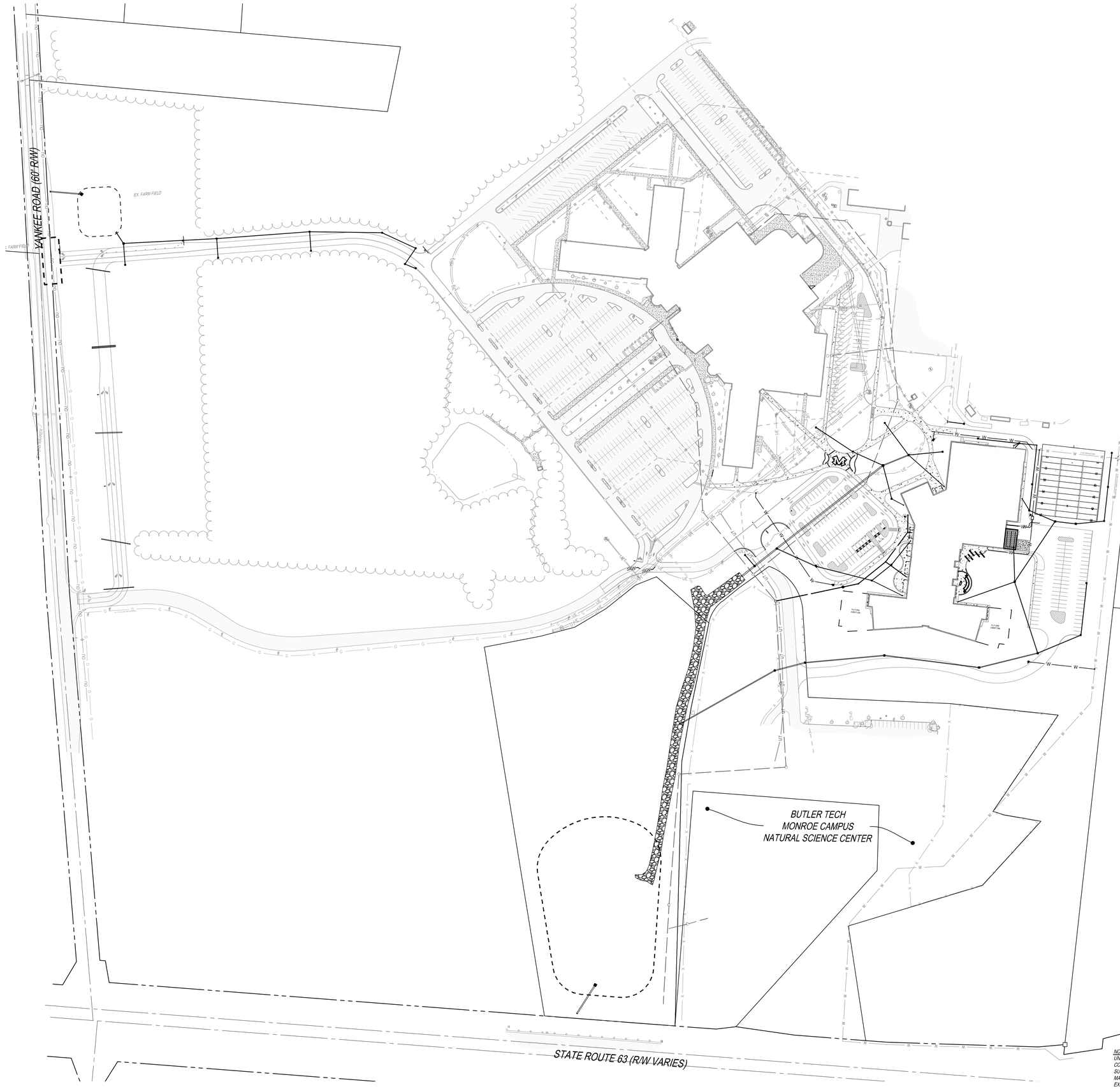
REV NO △	DESCRIPTION	DATE

LOCATION PLAN - INTERSECTION

C-105

H:\Engineering\2021\222101\02\Civil_Sheets\01SHEETS\C0105Z0N.dwg, 2/27/2026 1:43:17 PM, bbuchner

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

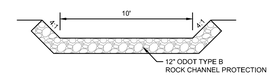


UTILITY PLAN LEGEND

- STM — STORM SEWER PIPE
- 100 — CATCH BASIN
- 100 — CURB INLET
- 100 — YARD DRAIN
- 100 — HEADWALL
- 100 — MANHOLE
- CO — STORM SEWER CLEANOUT
- DS — DOWNSPOUT
- SAN — SANITARY SEWER PIPE
- A — SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- WAT — WATERLINE PIPE
- FH — FIRE HYDRANT
- WV — WATER VALVE
- PIV — POST INDICATOR VALVE
- FDC — FIRE DEPARTMENT CONNECTION

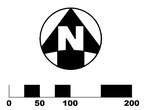
CODED NOTES

1. 6" WATER SERVICE
2. 4" DOMESTIC WATER LINE
3. 6" FIRE LINE
4. CITY OF MONROE DUAL SERVICE PIT (6 / C-501)
5. NEW WATER TAP
6. 3 - 4" PERFORATED UNDERDRAINS, EACH 40' LONG (10 / C-501)
7. SANITARY SEWER BUILDING CONNECTION. REFER TO PLUMBING PLAN FOR CONTINUATION.
8. DROP WATER LINE BELOW STORM LINE TO ACHIEVE MINIMUM 18" CLEARANCE.
9. CONTRACTOR TO REMOVE AND REPLACE PAVEMENT FOR UTILITY CROSSING.
10. TAPPING VALVE AND SLEEVE
11. 8" PUBLIC WATER MAIN, PER CITY OF MONROE STANDARDS.
12. OUTLET STRUCTURE FOR SOUTH BASIN (11 / C-501)
13. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
14. REPLACE EXISTING GRATE WITH SOLID TOP.
15. REPLACE EXISTING ROCK CHANNEL PER DETAIL 1 ON SHEET C-106
16. OUTLET STRUCTURE FOR NORTH BASIN (13 / C-501)



1 / C-106 CHANNEL SECTION
N.T.S.





NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/26

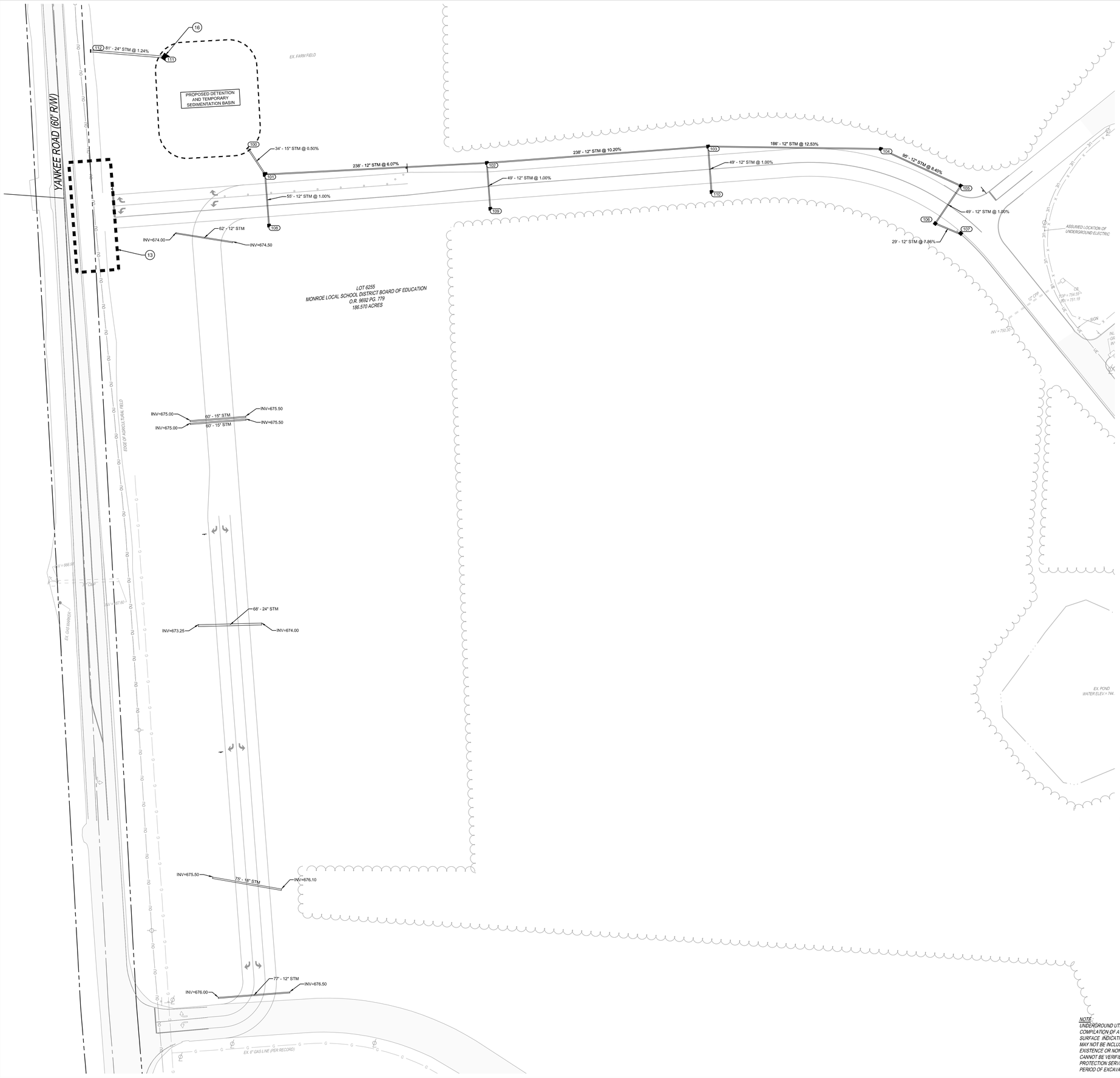
DRAWN BY:
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

OVERALL UTILITY PLAN

C-106

H:\Engineering\2021\222101.02\CAD_Sheets\01SHEETS\C106.dwg, 2/27/2026 1:44:03 PM, bbuchter

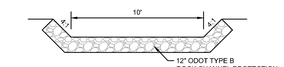


UTILITY PLAN LEGEND

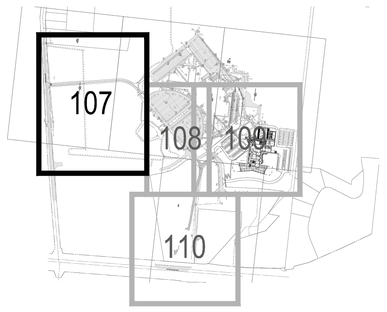
- STM — STORM SEWER PIPE
- CATCH BASIN
- CURB INLET
- YARD DRAIN
- HEADWALL
- MANHOLE
- CO — STORM SEWER CLEANOUT
- DS — DOWNSPOUT
- SAN — SANITARY SEWER PIPE
- A — SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- WAT — WATERLINE PIPE
- FIRE HYDRANT
- WV — WATER VALVE
- PIV — POST INDICATOR VALVE
- FDC — FIRE DEPARTMENT CONNECTION

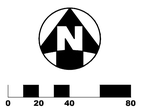
CODED NOTES

1. 6" WATER SERVICE
2. 4" DOMESTIC WATER LINE
3. 6" FIRE LINE
4. CITY OF MONROE DUAL SERVICE PIT (6 / C-501)
5. NEW WATER TAP
6. 3 - 4" PERFORATED UNDERDRAINS, EACH 40' LONG (10 / C-501)
7. SANITARY SEWER BUILDING CONNECTION. REFER TO PLUMBING PLAN FOR CONTINUATION.
8. DROP WATER LINE BELOW STORM LINE TO ACHIEVE MINIMUM 18" CLEARANCE.
9. CONTRACTOR TO REMOVE AND REPLACE PAVEMENT FOR UTILITY CROSSING.
10. TAPPING VALVE AND SLEEVE
11. 8" PUBLIC WATER MAIN, PER CITY OF MONROE STANDARDS.
12. OUTLET STRUCTURE FOR SOUTH BASIN (11 / C-501)
13. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
14. REPLACE EXISTING GRATE WITH SOLID TOP.
15. REPLACE EXISTING ROCK CHANNEL PER DETAIL 1 ON SHEET C-106
16. OUTLET STRUCTURE FOR NORTH BASIN (12 / C-501)



1 / C-107 CHANNEL SECTION
N.T.S.





NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

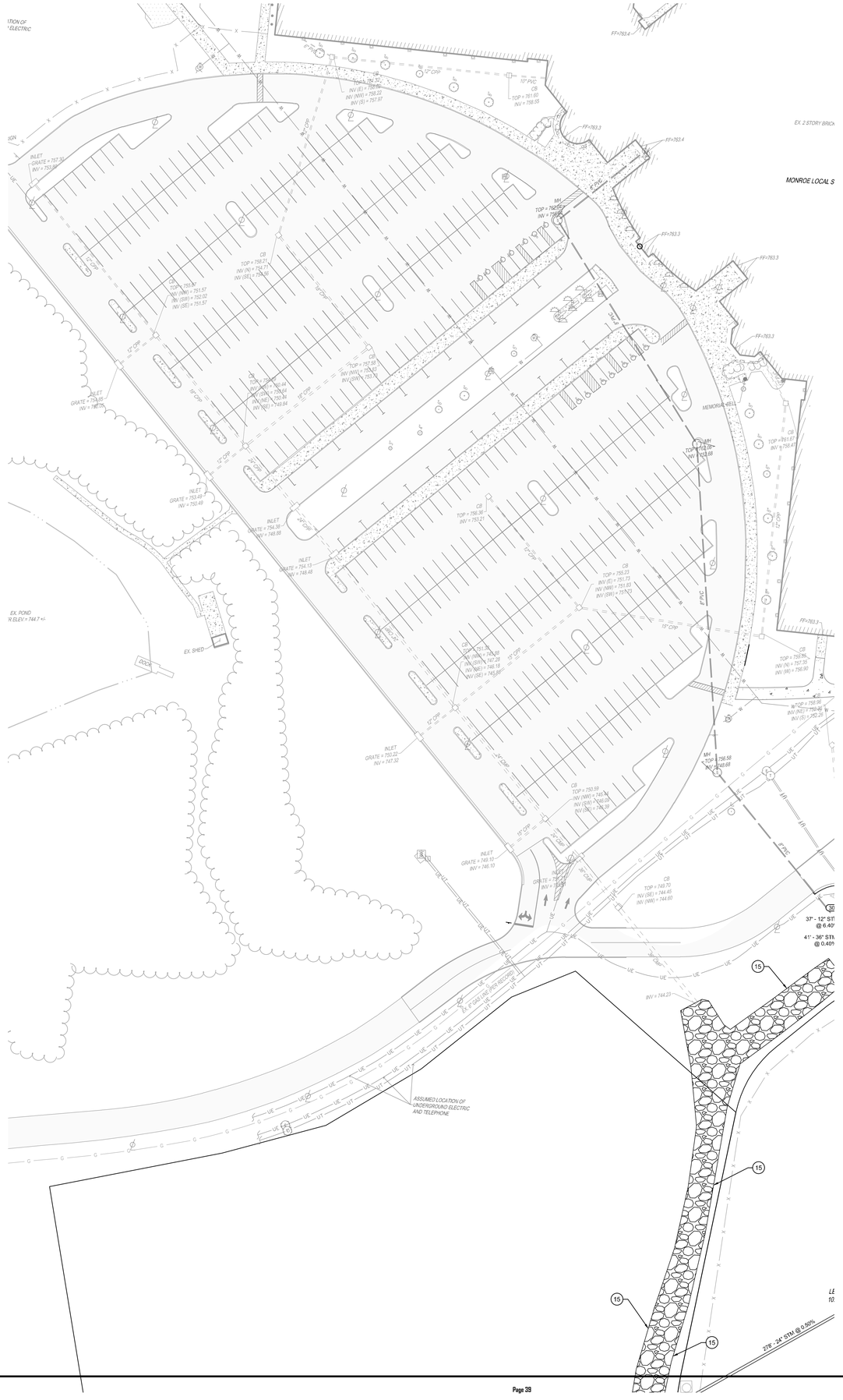
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

UTILITY PLAN - NEW DRIVE

C-107

I:\Engineering\2021\222101\Civil\Sheets\01SiteDOUTL\02Utility.dwg, 2/27/2026 1:44:11 PM, tbouchar

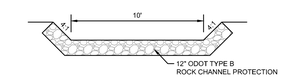


UTILITY PLAN LEGEND

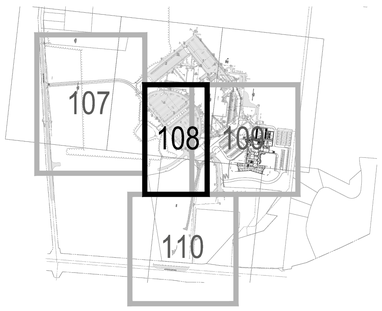
- STM — STORM SEWER PIPE
- (100) CATCH BASIN
- (100) CURB INLET
- (100) YARD DRAIN
- (100) HEADWALL
- (100) MANHOLE
- CO — STORM SEWER CLEANOUT
- DS — DOWNSPOUT
- SAN — SANITARY SEWER PIPE
- A — SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- WAT — WATERLINE PIPE
- FH — FIRE HYDRANT
- WV — WATER VALVE
- PIV — POST INDICATOR VALVE
- FDC — FIRE DEPARTMENT CONNECTION

CODED NOTES

1. 6" WATER SERVICE
2. 4" DOMESTIC WATER LINE
3. 6" FIRE LINE
4. CITY OF MONROE DUAL SERVICE PIT (6/C-501)
5. NEW WATER TAP
6. 3 - 4" PERFORATED UNDERDRAINS, EACH 40' LONG (10/C-501)
7. SANITARY SEWER BUILDING CONNECTION. REFER TO PLUMBING PLAN FOR CONTINUATION.
8. DROP WATER LINE BELOW STORM LINE TO ACHIEVE MINIMUM 18" CLEARANCE.
9. CONTRACTOR TO REMOVE AND REPLACE PAVEMENT FOR UTILITY CROSSING.
10. TAPPING VALVE AND SLEEVE
11. 8" PUBLIC WATER MAIN, PER CITY OF MONROE STANDARDS.
12. OUTLET STRUCTURE FOR SOUTH BASIN (11/C-501)
13. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
14. REPLACE EXISTING GRATE WITH SOLID TOP.
15. REPLACE EXISTING ROCK CHANNEL PER DETAIL 1 ON SHEET C-106
16. OUTLET STRUCTURE FOR NORTH BASIN (12/C-501)



1/C-106 CHANNEL SECTION
N.T.S.



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATION AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/26

DRAWN BY:
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

UTILITY PLAN - INTERSECTION

C-108

H:\Engineering\2021-2029\2105802\02\Dwg_Sheets\2105802U02.dwg, 2/27/2026 1:44:17 PM, bbuchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/26

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO	DESCRIPTION	DATE

UTILITY PLAN - HIGH SCHOOL

C-109

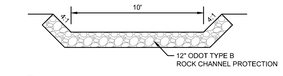


UTILITY PLAN LEGEND

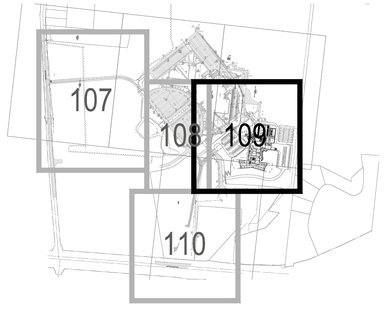
- STORM SEWER PIPE
- CATCH BASIN
- CURB INLET
- YARD DRAIN
- HEADWALL
- MANHOLE
- STORM SEWER CLEANOUT
- DOWNSPOUT
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATERLINE PIPE
- FIRE HYDRANT
- WATER VALVE
- POST INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION

CODED NOTES

1. 6" WATER SERVICE
2. 4" DOMESTIC WATER LINE
3. 6" FIRE LINE
4. CITY OF MONROE DUAL SERVICE PIT (6 / C-501)
5. NEW WATER TAP
6. 3 - 4" PERFORATED UNDERDRAINS, EACH 40' LONG (10 / C-501)
7. SANITARY SEWER BUILDING CONNECTION. REFER TO PLUMBING PLAN FOR CONTINUATION.
8. DROP WATER LINE BELOW STORM LINE TO ACHIEVE MINIMUM 18" CLEARANCE.
9. CONTRACTOR TO REMOVE AND REPLACE PAVEMENT FOR UTILITY CROSSING.
10. TAPPING VALVE AND SLEEVE
11. 8" PUBLIC WATER MAIN, PER CITY OF MONROE STANDARDS.
12. OUTLET STRUCTURE FOR SOUTH BASIN (11 / C-501)
13. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
14. REPLACE EXISTING GRATE WITH SOLID TOP.
15. REPLACE EXISTING ROCK CHANNEL PER DETAIL 1 ON SHEET C-106
16. OUTLET STRUCTURE FOR NORTH BASIN (13 / C-501)



1 / C-106 CHANNEL SECTION
N.T.S.

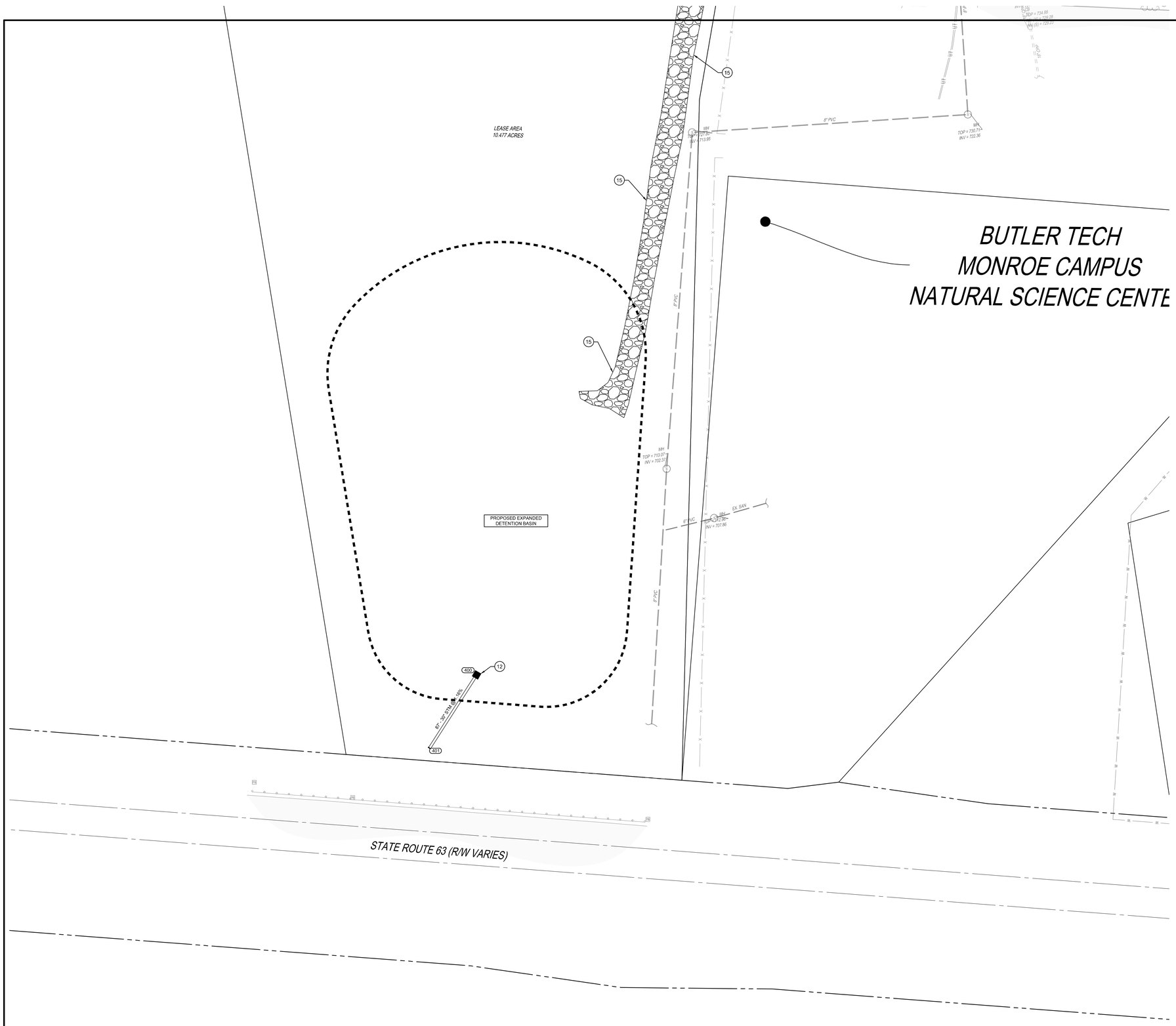


NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

H:\Engineering\2021-2030\222101\02_CIVIL_Sheets\01\05\C01\C109.dwg, 2/27/2026 1:44:23 PM, bbuchner

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

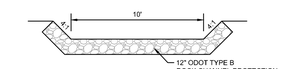


UTILITY PLAN LEGEND

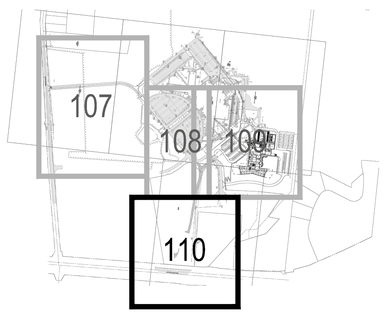
- STM — STORM SEWER PIPE
- 100 — CATCH BASIN
- 100 — CURB INLET
- 100 — YARD DRAIN
- 100 — HEADWALL
- 100 — MANHOLE
- CO — STORM SEWER CLEANOUT
- DS — DOWNSPOUT
- SAN — SANITARY SEWER PIPE
- A — SANITARY SEWER MANHOLE
- CO — SANITARY SEWER CLEANOUT
- WAT — WATERLINE PIPE
- FH — FIRE HYDRANT
- WV — WATER VALVE
- PIV — POST INDICATOR VALVE
- FDC — FIRE DEPARTMENT CONNECTION

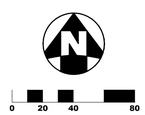
CODED NOTES

1. 6" WATER SERVICE
2. 4" DOMESTIC WATER LINE
3. 6" FIRE LINE
4. CITY OF MONROE DUAL SERVICE PIT (6/C-501)
5. NEW WATER TAP
6. 3 - 4" PERFORATED UNDERDRAINS, EACH 40' LONG (10/C-501)
7. SANITARY SEWER BUILDING CONNECTION. REFER TO PLUMBING PLAN FOR CONTINUATION.
8. DROP WATER LINE BELOW STORM LINE TO ACHIEVE MINIMUM 18" CLEARANCE.
9. CONTRACTOR TO REMOVE AND REPLACE PAVEMENT FOR UTILITY CROSSING.
10. TAPPING VALVE AND SLEEVE
11. 8" PUBLIC WATER MAIN, PER CITY OF MONROE STANDARDS.
12. OUTLET STRUCTURE FOR SOUTH BASIN (11/C-501)
13. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
14. REPLACE EXISTING GRATE WITH SOLID TOP.
15. REPLACE EXISTING ROCK CHANNEL PER DETAIL 1 ON SHEET C-106
16. OUTLET STRUCTURE FOR NORTH BASIN (13/C-501)



1/C-110 CHANNEL SECTION
N.T.S.





NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. RONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/6/26

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

UTILITY PLAN - EXPANDED DETENTION BASIN

C-110

H:\Engineering\2021-2022\P\101882\2025_DWG_Sheets\101882C110.DGN.dwg, 2/27/2026 1:44:33 PM, tbooher

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

YANKEE ROAD (60' R/W)

EX. FARM FIELD

FFE = 759.00'

BUTLER TECH
MONROE CAMPUS
NATURAL SCIENCE CENTER

STATE ROUTE 63 (R/W VARIES)

GRADING LEGEND

- 1215 EXISTING MAJOR CONTOUR
- 1216 EXISTING MINOR CONTOUR
- 1215 PROPOSED MAJOR CONTOUR
- 1216 PROPOSED MINOR CONTOUR

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1/C-202)
- IP — INLET PROTECTION (2/C-202, 3/C-202)
- CONSTRUCTION ENTRANCE (4/C-202)
- SF — SILT FENCE (5/C-202)
- TP — TREE PROTECTION (6/C-202)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25', SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12/C-501)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14/C-501)

112 113 114 115

0 50 100 200

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING | 6219 Centre Park Dr.
LANDSCAPE ARCHITECTURE | West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 222101.02

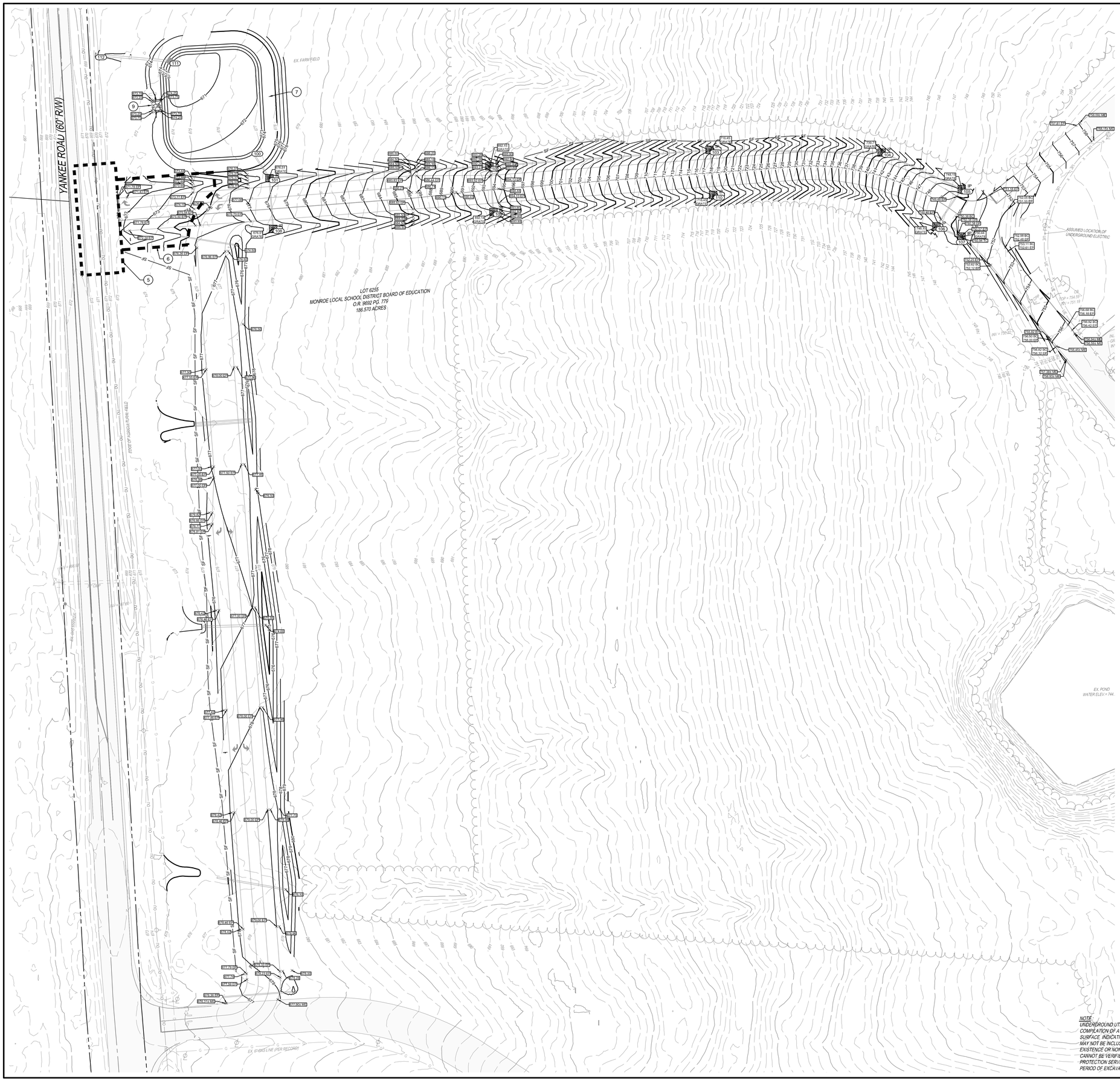
PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

OVERALL GRADING PLAN

C-111

H:\Engineering\2021\222101\Plot\Plot_Sheets\222101C00D0.dwg, 2/27/2026 1:31:11 PM, tkoehler



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

SPOT ELEVATION LEGEND

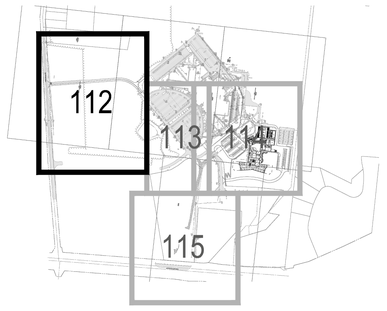
- × 1215.00 — FINISHED GRADE ELEVATION
- × 1215.00 BC — BACK OF CURB ELEVATION
- × 1215.00 EC — EDGE OF CONCRETE ELEVATION
- × 1215.00 EP — EDGE OF PAVEMENT ELEVATION
- × 1215.00 RIM — MANHOLE / CLEANOUT RIM ELEVATION
- × 1215.00 TC — STORM INLET TOP OF CASTING ELEVATION
- × 1215.00 GRATE — CATCH BASIN GRATE ELEVATION
- × 1215.00± ME — MATCH EXISTING ELEVATION
- × 1215.00 WT — TOP OF WALL ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 C-507)
- IP — INLET PROTECTION (2 C-507, 3 C-507)
- CONSTRUCTION ENTRANCE (4 C-507)
- SF — SILT FENCE (5 C-507)
- TP — TREE PROTECTION (6 C-507)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 C-507)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 C-507)



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

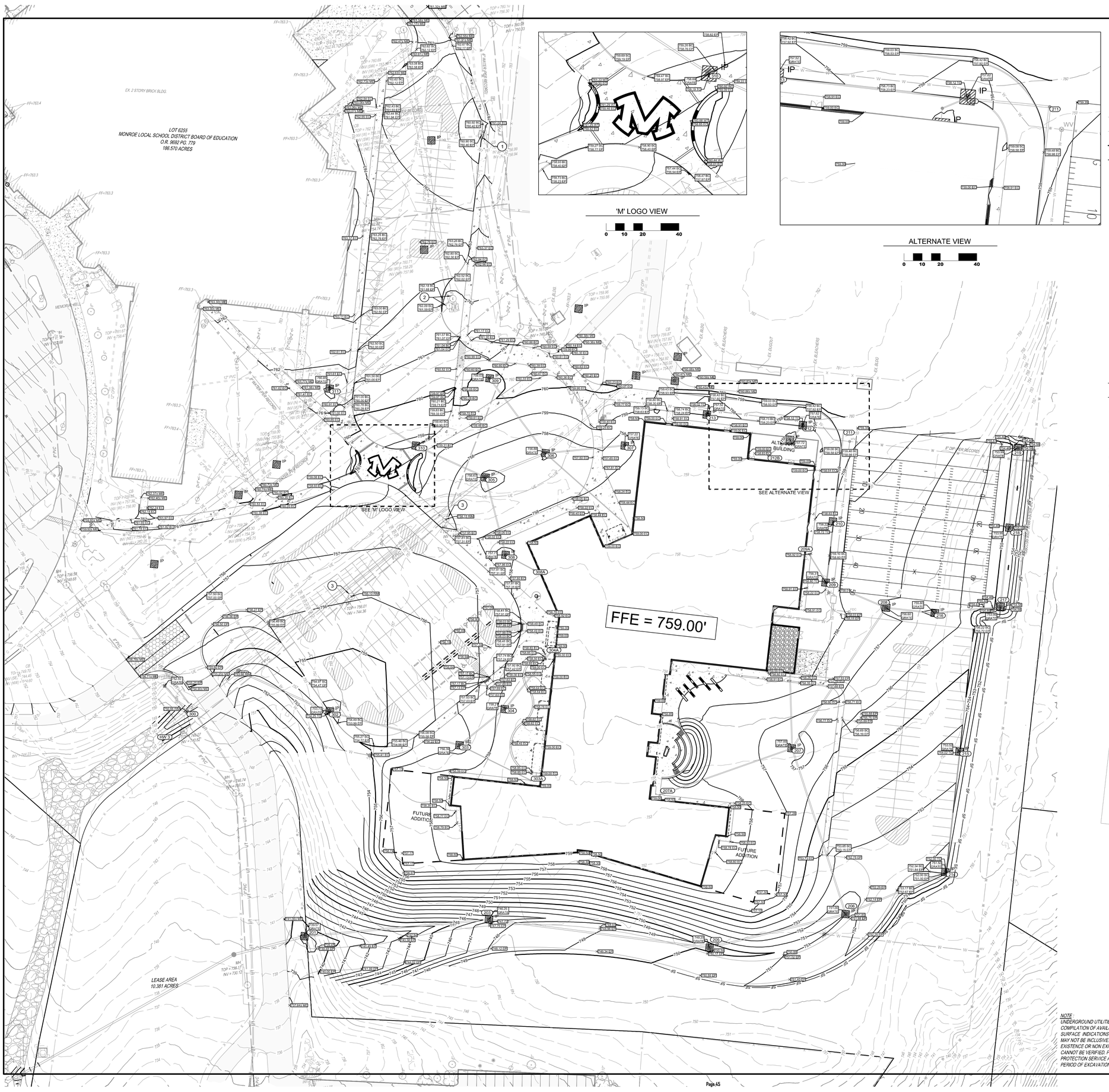
GRADING PLAN - NEW DRIVE

C-112

H:\Engineering\2021-2030\P2102\82102N_CIVIL_Sheets\82086CGR0429.dwg, 2/27/2026 1:45:45 PM, Douchar


EX. 2 STORY BRICK
MONROE LOCAL S
MEMORIAL BELL
EX. POND
W ELEV = 744.7 +/-
EX. SHED
ASSUMED LOCATION OF UNDERGROUND ELECTRIC AND TELEPHONE
INLET
GRATE = 757.30
INV = 753.05
CB
TOP = 758.55
INV = 754.71
INV (E) = 752.55
INV (W) = 752.55
INV (S) = 751.97
MH
TOP = 762.55
INV = 758.05
CB
TOP = 754.27
INV (W) = 754.27
INV (SE) = 750.82
CB
TOP = 755.37
INV (NW) = 751.57
INV (SW) = 752.02
INV (SE) = 751.57
CB
TOP = 757.58
INV (NW) = 753.82
INV (SW) = 753.82
CB
TOP = 760.64
INV (NW) = 756.44
INV (NE) = 756.44
INV (SE) = 749.84
INLET
GRATE = 753.68
INV = 749.49
INLET
GRATE = 754.38
INV = 748.88
INLET
GRATE = 754.43
INV = 748.68
CB
TOP = 756.31
INV = 751.21
CB
TOP = 752.23
INV (E) = 751.73
INV (NW) = 751.63
INV (SW) = 751.63
CB
TOP = 749.28
INV (NW) = 744.28
INV (SW) = 743.25
INV (NE) = 746.18
INV (SE) = 745.68
INLET
GRATE = 750.22
INV = 747.02
CB
TOP = 750.59
INV (NW) = 745.34
INV (SW) = 744.09
INV (SE) = 744.09
INLET
GRATE = 748.10
INV = 745.10
GRATE = 747.70
INV = 744.50
CB
TOP = 749.70
INV (SE) = 744.40
INV (NW) = 744.00
MH
TOP = 758.58
INV = 748.68
CB
TOP = 761.67
INV = 756.47
CB
TOP = 752.55
INV (N) = 751.30
INV (W) = 750.95
INV (E) = 750.45
INV (S) = 750.25
12" CPP
8" PVC
8" DIP
6" PVC
12" PVC
FF=763.4
FF=763.3
FF=763.3
FF=763.3

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

SPOT ELEVATION LEGEND

- × 1215.00 — FINISHED GRADE ELEVATION
- × 1215.00 BC — BACK OF CURB ELEVATION
- × 1215.00 EC — EDGE OF CONCRETE ELEVATION
- × 1215.00 EP — EDGE OF PAVEMENT ELEVATION
- × 1215.00 RIM — MANHOLE / CLEANOUT RIM ELEVATION
- × 1215.00 TC — STORM INLET TOP OF CASTING ELEVATION
- × 1215.00 GRATE — CATCH BASIN GRATE ELEVATION
- × 1215.00± ME — MATCH EXISTING ELEVATION
- × 1215.00 WT — TOP OF WALL ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 C-507)
- IP — INLET PROTECTION (2 C-507, 3 C-507)
- CONSTRUCTION ENTRANCE (4 C-507)
- SF — SILT FENCE (5 C-507)
- TP — TREE PROTECTION (6 C-507)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 C-507)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 C-507)



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
98008
REGISTERED
PROFESSIONAL ENGINEER
2/27/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

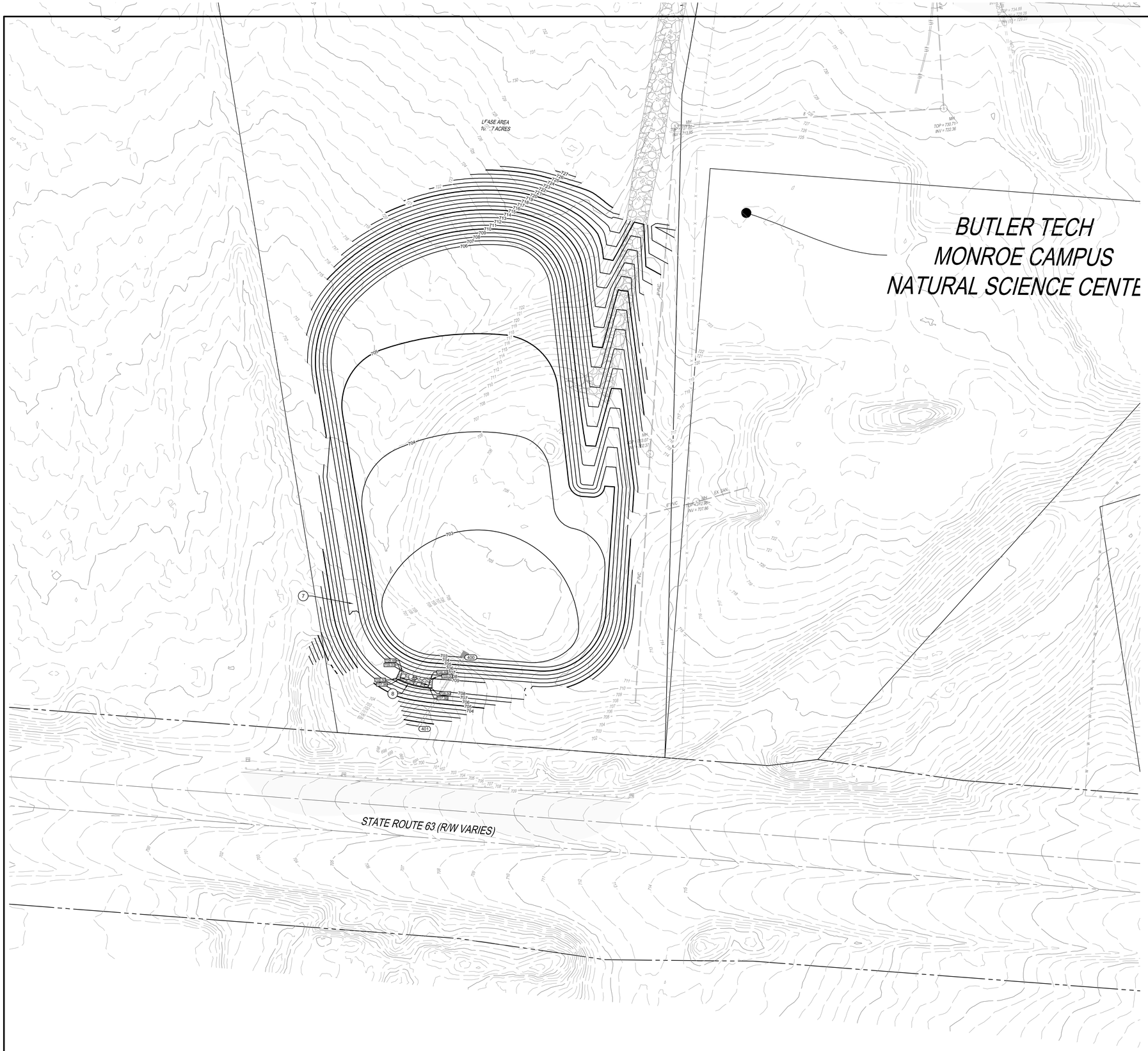
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

GRADING PLAN - HIGH SCHOOL

C-114

I:\Engineering\2021-2030\P2101802\2021_DWG_Sheets\2101802GRD029.dwg, 2/27/2026 1:44:58 PM, JoshuaTur



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 C-502)
- IP — INLET PROTECTION (2 C-502) (3 C-502)
- CONSTRUCTION ENTRANCE (4 C-502)
- SF — SILT FENCE (5 C-502)
- TP — TREE PROTECTION (6 C-502)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 C-507)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 C-507)



0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
6/1/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

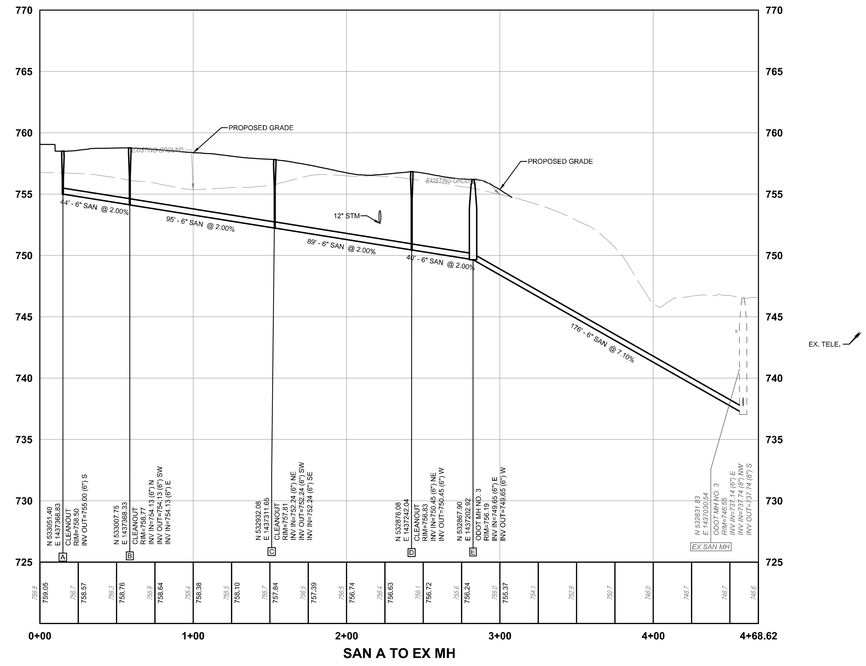
PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

GRADING PLAN - EXPANDED DETENTION BASIN

C-115

H:\Engineering\2021-2022\P\222101.02\CAD\C3D\C115.dwg, 2/27/2026 1:45:08 PM, bbuchur



SAN A TO EX MH

V 0 2.5 5 10
H 0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/27/26

DRAWN BY:

PROJECT NUMBER: 222101.02

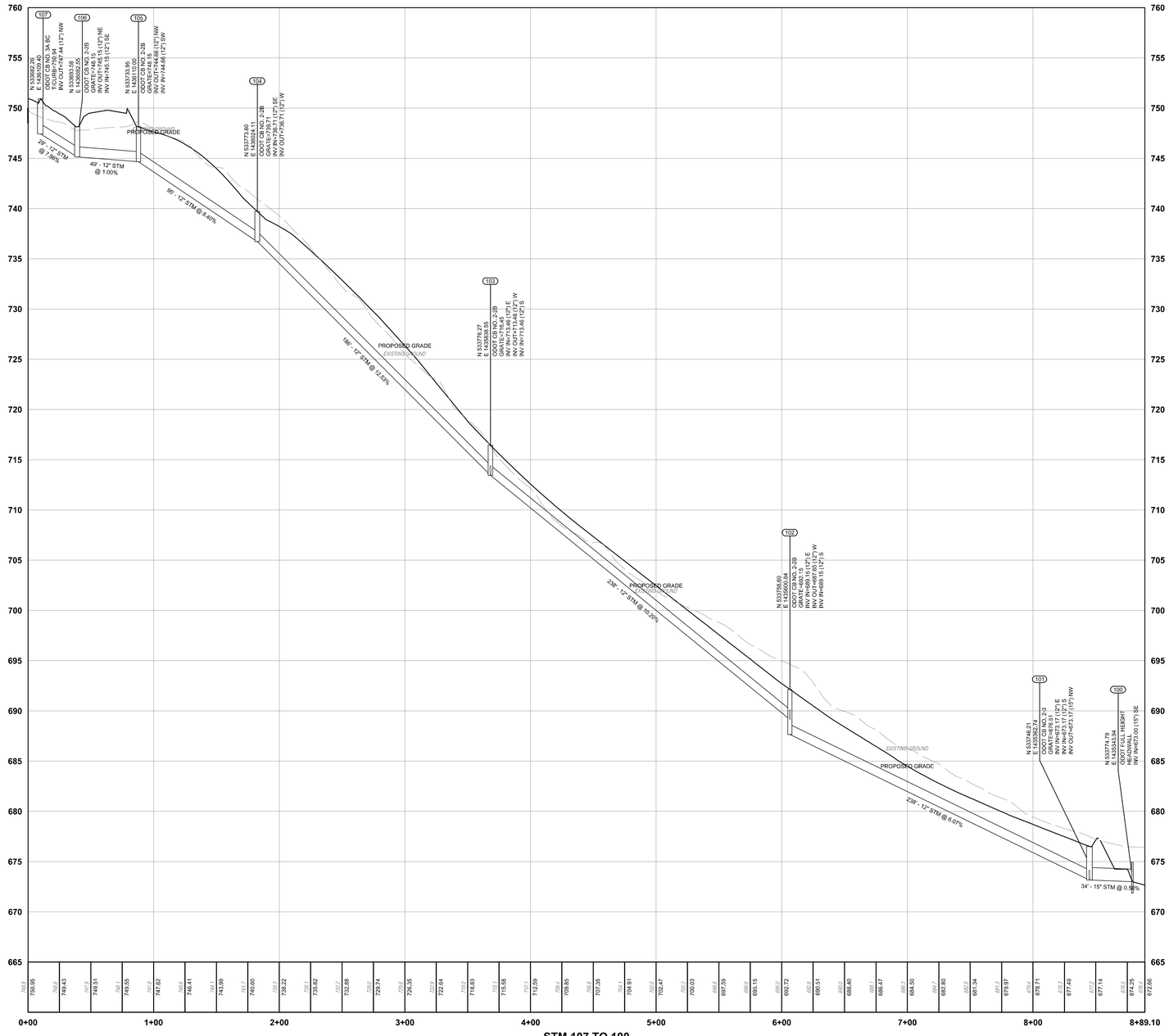
PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

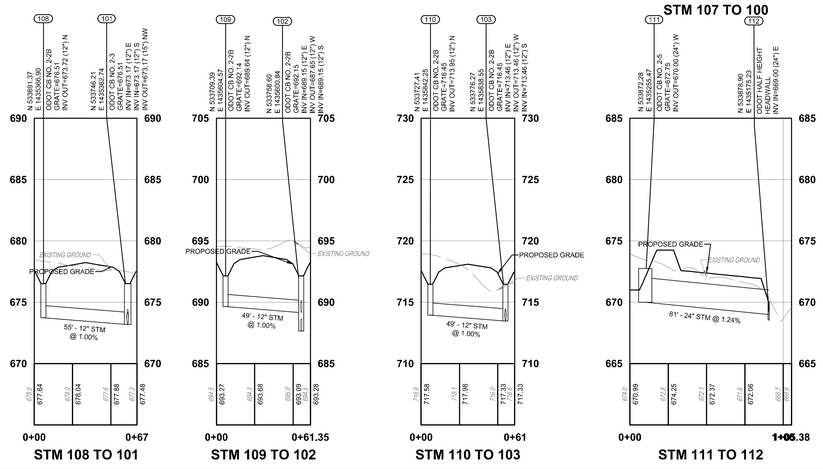
SANITARY SEWER PROFILES

C-201

H:\Engineering\2021\222101\02\02\Civil_Sheets\222101SEQ02\222101_DWG_Sheets\222101SEQ02\222101_C201.dwg, 2/27/2026 1:45:23 PM, tbouchar



STM 107 TO 100



STM 108 TO 101 | STM 109 TO 102 | STM 110 TO 103 | STM 111 TO 112

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

V 0 2.5 5 10
H 0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

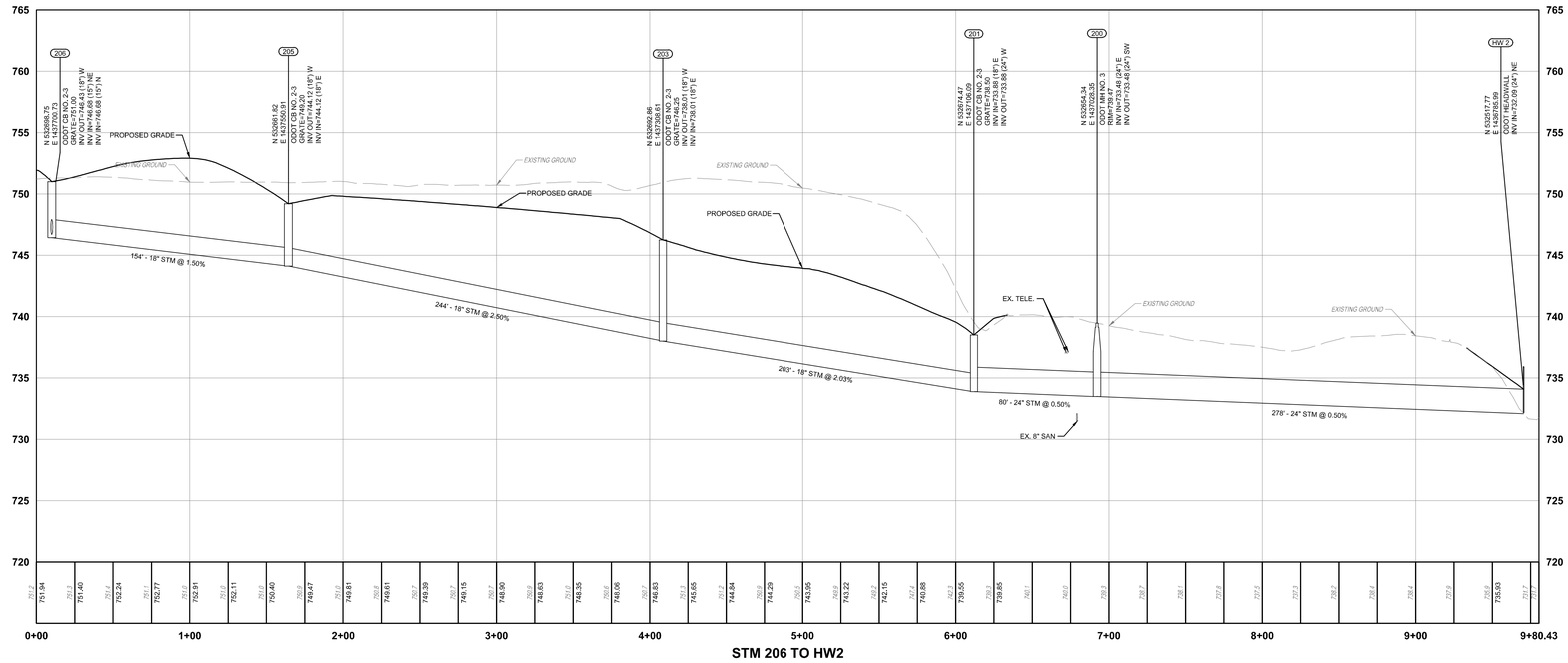
OHIO811.org Before You Dig

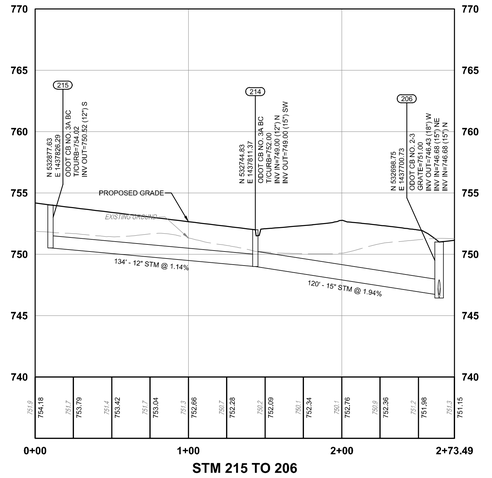
STORM SEWER PROFILES

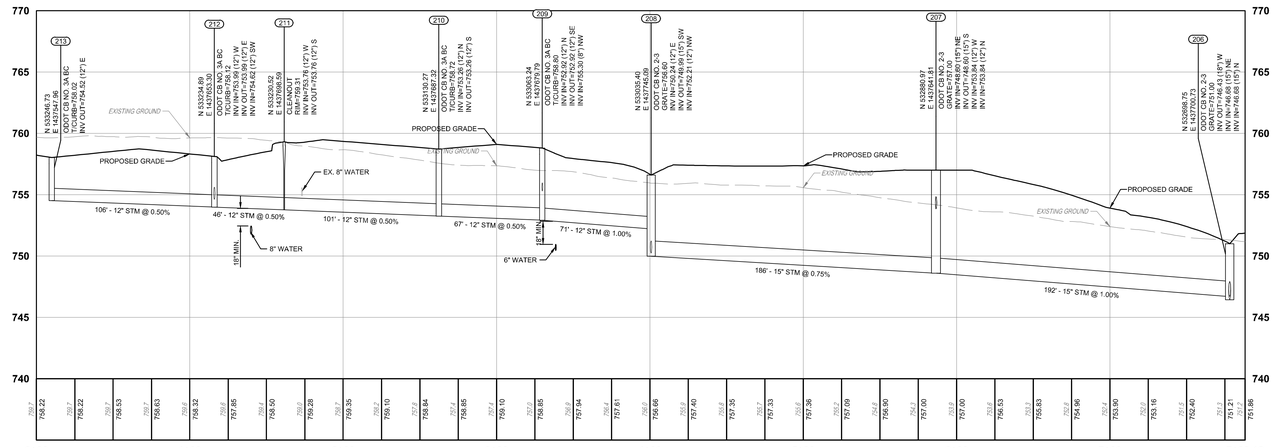
C-202

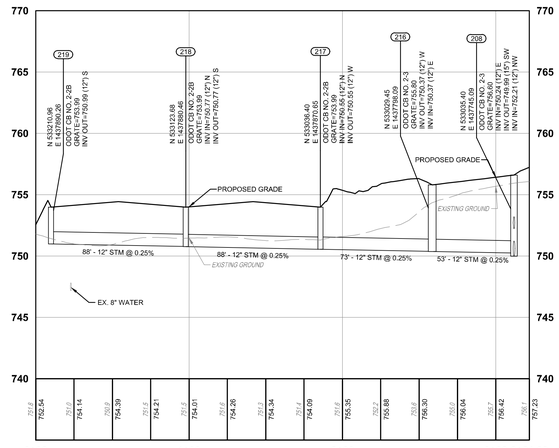
H:\Engineering\2021-2030\P2109\82\02\PLOTS_Sheets\2186\2CI1029.dwg, 2/27/2026 1:45:34 PM, tbuchar

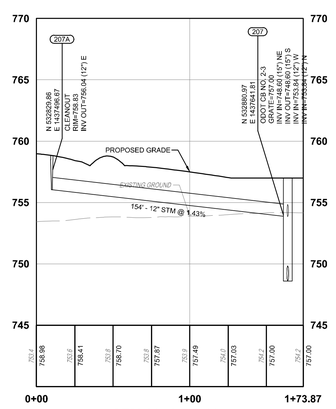
COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

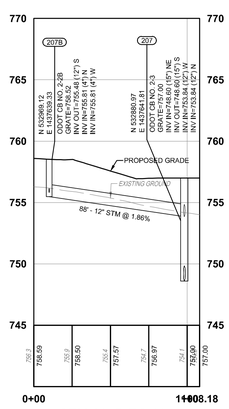




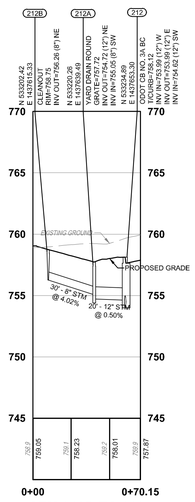


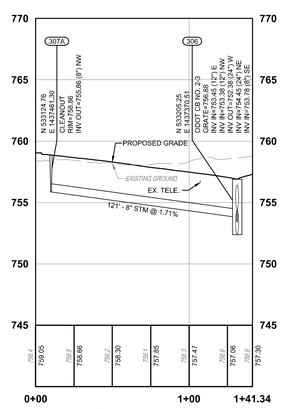


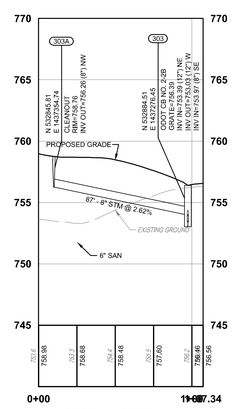












NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
98008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

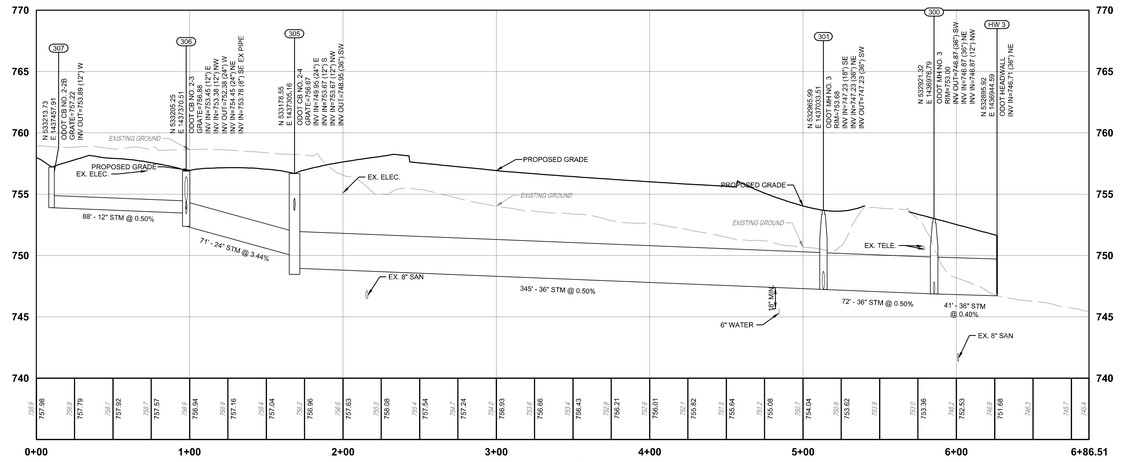
REV. NO	DESCRIPTION	DATE

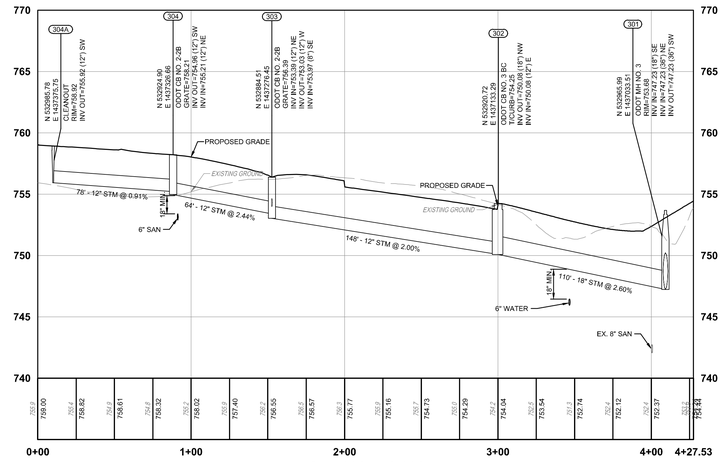
STORM SEWER PROFILES

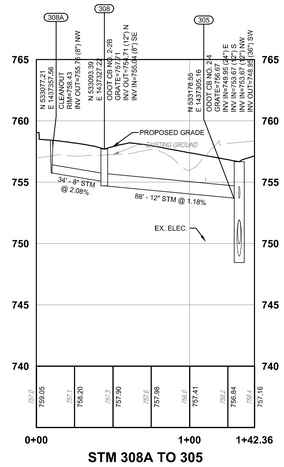
C-203

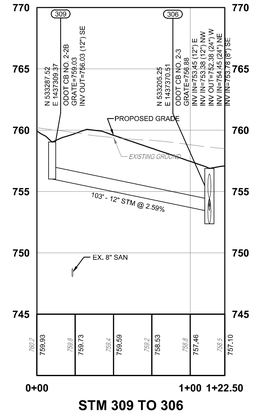
H:\Engineering\2021\222101\Civil\Dwg\Sheets\222101C01.dwg, 2/27/2026 1:45:30 PM, BradHar

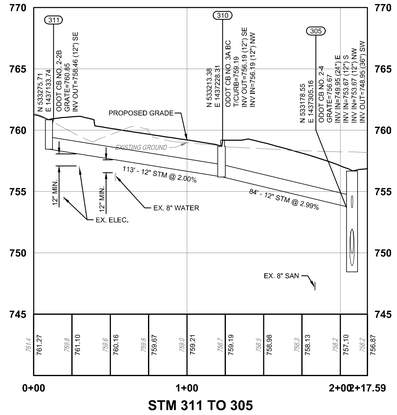
COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

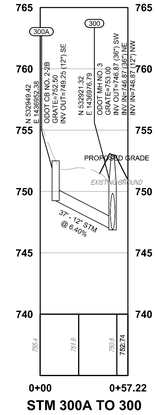


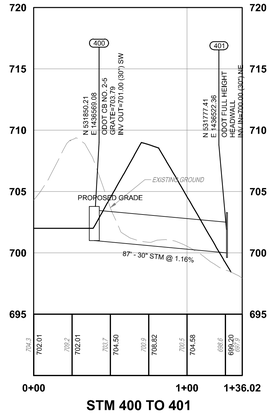












V 0 2.5 5 10
H 0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

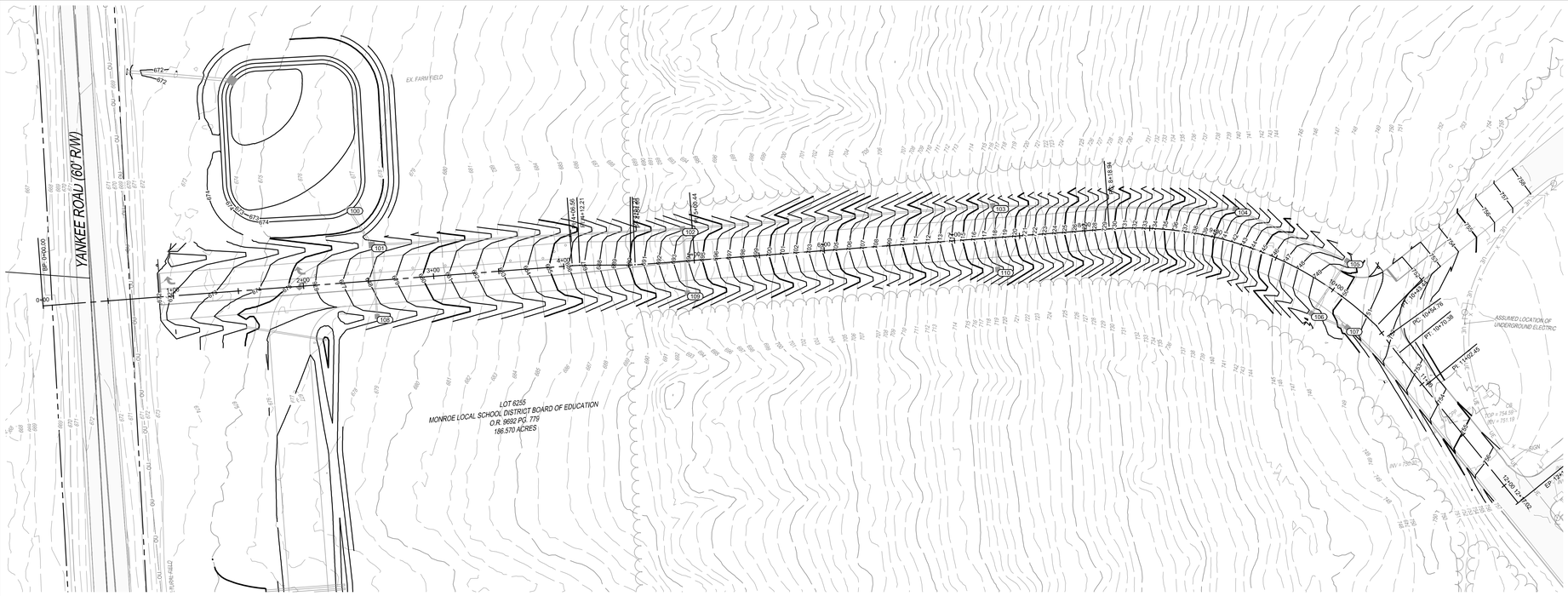
REV. NO △	DESCRIPTION	DATE

STORM SEWER PROFILES

C-204

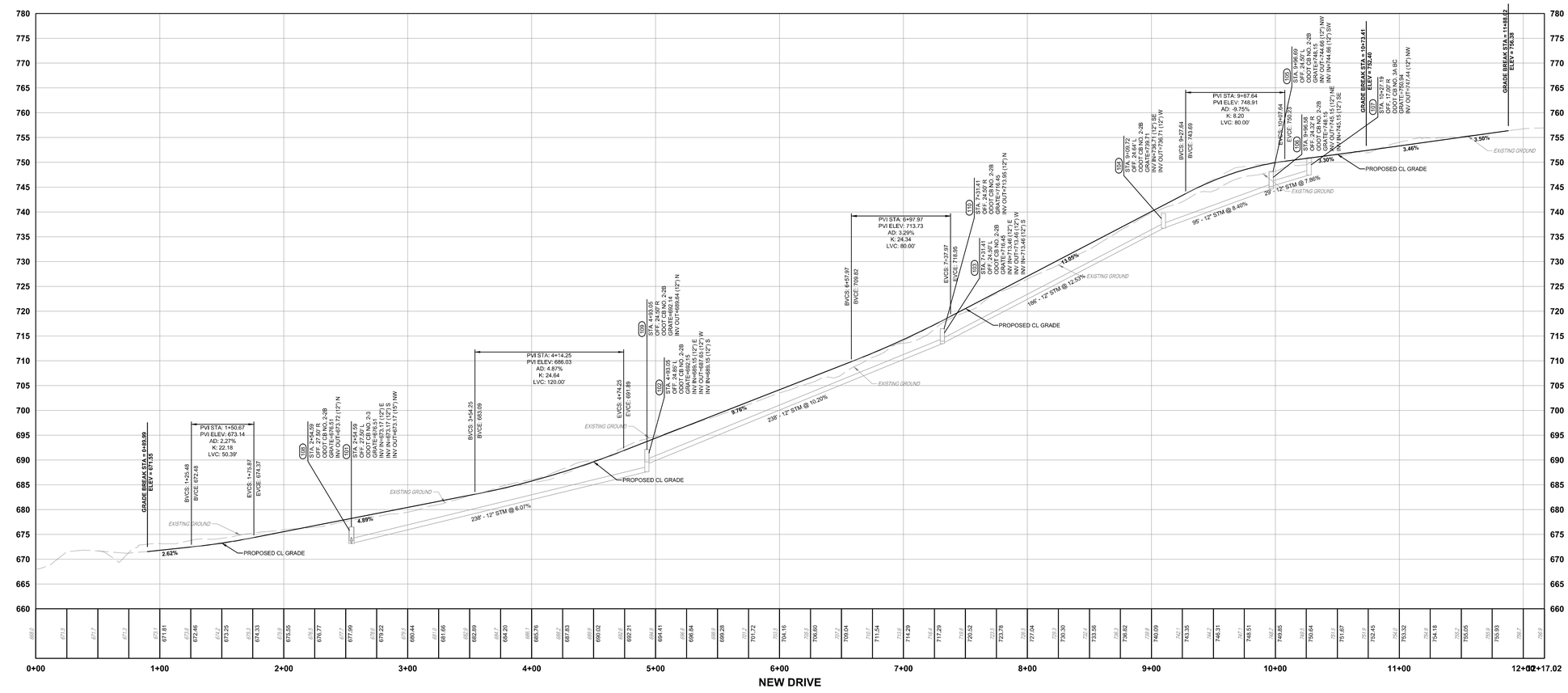
H:\Engineering\2021-2030\Y2022\222101.02\03_Sheets\01SEP\222101.02_DWG_Sheets01SEP.dwg, 2/27/2026 1:45:34 PM, fdoucher

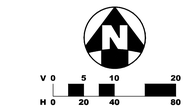
COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



GRADING LEGEND

- 1215 EXISTING MAJOR CONTOUR
- 1216 EXISTING MINOR CONTOUR
- 1215 PROPOSED MAJOR CONTOUR
- 1216 PROPOSED MINOR CONTOUR





NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
98008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

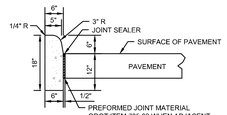
PLAN AND PROFILE - NEW DRIVE

C-210

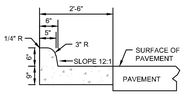
H:\Engineering\2021-2030\P2022\02\P_Sheets\01\C210PHP2D.dwg, 2/27/2026 1:45:12 PM, tbuchar

1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 4" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
6. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

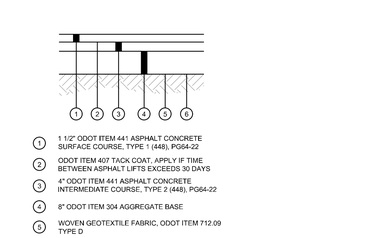
HEAVY DUTY ASPHALT PAVEMENT DETAIL
1 C-501 — N.T.S.



BARRIER CURB DETAIL
2 C-501 — N.T.S.

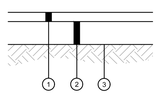


CURB AND GUTTER DETAIL
3 C-501 — N.T.S.



NOTES:
1. LANE MARKING ARROWS SHALL BE WHITE.

LANE MARKING DETAILS
4 C-501 — N.T.S.



1. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448), PG64-22
2. 8" ODOT ITEM 304 AGGREGATE BASE
3. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

TEMPORARY ACCESS DRIVE DETAIL
5 C-501 — N.T.S.

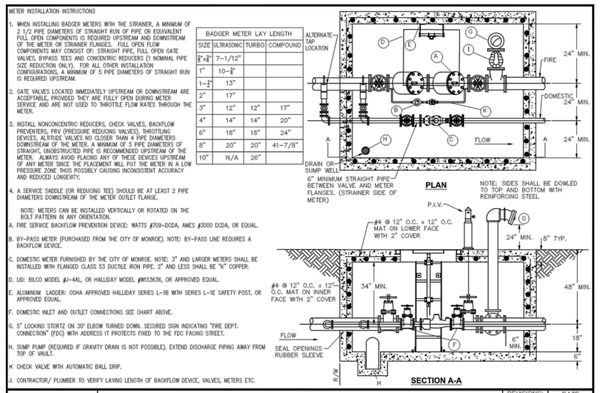
METER INSTALLATION INSTRUCTIONS

1. WHEN INSTALLING BADGER METERS WITH THE STRAINER, A MINIMUM OF 2 1/2 PIPE DIAMETERS OF STRAIGHT RUN OF PIPE OR EQUIVALENT FULL OPEN COMPONENTS IS REQUIRED UPSTREAM AND DOWNSTREAM OF THE METER OR STRAINER FLANGES. FULL OPEN FLOW COMPONENTS MAY CONSIST OF: STRAIGHT PIPE, FULL OPEN GATE VALVES, BYPASS TEES AND CONCENTRIC REDUCERS (1 NOMINAL PIPE SIZE REDUCTION ONLY). FOR ALL OTHER INSTALLATION CONFIGURATIONS, A MINIMUM OF 5 PIPE DIAMETERS OF STRAIGHT RUN IS REQUIRED UPSTREAM.
2. GATE VALVES LOCATED IMMEDIATELY UPSTREAM OR DOWNSTREAM ARE ACCEPTABLE, PROVIDED THEY ARE FULLY OPEN DURING METER SERVICE AND ARE NOT USED TO THROTTLE FLOW RATES THROUGH THE METER.
3. INSTALL NONCONCENTRIC REDUCERS, CHECK VALVES, BACKFLOW PREVENTERS, PRV (PRESSURE REDUCING VALVES), THROTTLING DEVICES, ALTITUDE VALVES NO CLOSER THAN 4 PIPE DIAMETERS DOWNSTREAM OF THE METER. A MINIMUM OF 5 PIPE DIAMETERS OF STRAIGHT, UNOBSTRUCTED PIPE IS RECOMMENDED UPSTREAM OF THE METER. ALWAYS AVOID PLACING ANY OF THESE DEVICES UPSTREAM OF ANY METER SINCE THE PLACEMENT WILL PUT THE METER IN A LOW PRESSURE ZONE THUS POSSIBLY CAUSING INCONSISTENT ACCURACY AND REDUCED LONGEVITY.
4. A SERVICE SADDLE (OR REDUCING TEE) SHOULD BE AT LEAST 2 PIPE DIAMETERS DOWNSTREAM OF THE METER OUTLET FLANGE.

NOTE: METERS CAN BE INSTALLED VERTICALLY OR ROTATED ON THE BOLT PATTERN IN ANY ORIENTATION.

A. FIRE SERVICE BACKFLOW PREVENTION DEVICE: WATTS #709-DCDA, AWES #3000 DCDA, OR EQUAL.
B. BY-PASS METER (PURCHASED FROM THE CITY OF MONROE). NOTE: BY-PASS LINE REQUIRES A BACKFLOW DEVICE.
C. DOMESTIC METER FURNISHED BY THE CITY OF MONROE. NOTE: 3" AND LARGER METERS SHALL BE INSTALLED WITH FLANGED CLASS 53 DUCTILE IRON PIPE. 2" AND LESS SHALL BE "K" COPPER.
D. LID: BILCO MODEL #J-4AL, OR HALLIDAY MODEL #HS3636, OR APPROVED EQUAL.
E. ALUMINUM LADDER: OSHA APPROVED HALLIDAY SERIES L-1B WITH SERIES L-1E SAFETY POST, OR APPROVED EQUAL.
F. DOMESTIC INLET AND OUTLET CONNECTIONS SEE CHART ABOVE.
G. 5" LOCKING STORTZ ON 30° ELBOW TURNED DOWN. SECURED SIGN INDICATING "FIRE DEPT. CONNECTION" (FDC) WITH ADDRESS IT PROTECTS FIXED TO THE FDC FACING STREET.
H. SUMP PUMP (REQUIRED IF GRAVITY DRAIN IS NOT POSSIBLE), EXTEND DISCHARGE PIPING AWAY FROM TOP OF VAULT.
K. CHECK VALVE WITH AUTOMATIC BALL DRIP.
J. CONTRACTOR/ PLUMBER TO VERIFY LAYING LENGTH OF BACKFLOW DEVICE, VALVES, METERS ETC.

BADGER METER LAY LENGTH			
SIZE	ULTRASONIC	TURBO	COMPOUND
5/8"x3/4"	7-1/2"		
1"	10-3/8"		
1-1/2"	13"		
2"	17"		
3"	12"	12"	17"
4"	14"	14"	20"
6"	18"	18"	24"
8"	20"	20"	41-7/8"
10"	N/A	26"	

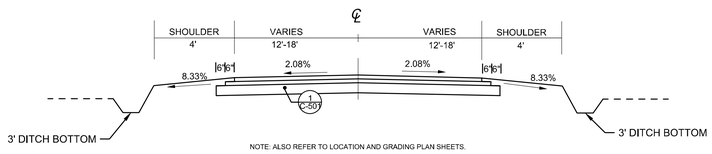


CITY OF MONROE — DUAL SERVICE SETTING WITH BACKFLOW DEVICE

REVISIONS: 08/23/2023 | DATE APPROVED: 08/07/2023 | PAGE No.: SOO-13

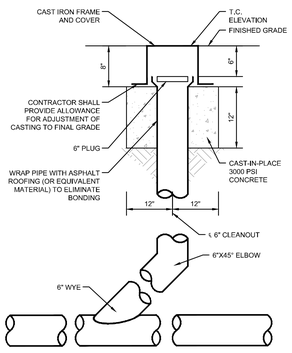
NOTE: FDC WILL BE FREE STANDING AND NOT IN PIT DUE TO FIRE PUMP IN BUILDING.

MONROE DUAL SERVICE PIT
6 C-501 — N.T.S.

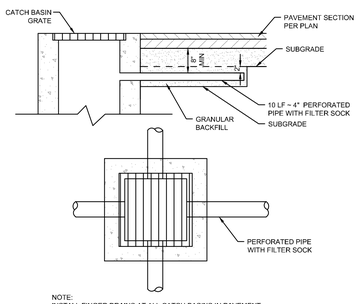


NOTE: ALSO REFER TO LOCATION AND GRADING PLAN SHEETS.

NEW DRIVE TYPICAL SECTION
7 C-501 — N.T.S.

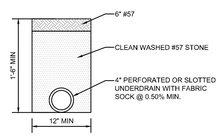


CLEANOUT DETAIL
8 C-501 — N.T.S.

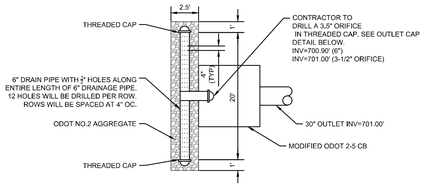


NOTE:
INSTALL FINGER DRAINS AT ALL CATCH BASINS IN PAVEMENT

FINGER DRAIN DETAIL
9 C-501 — N.T.S.



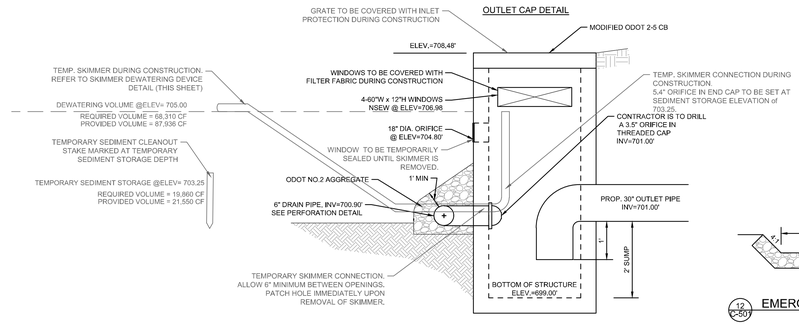
STORM UNDERDRAIN DETAIL
10 C-501 — N.T.S.



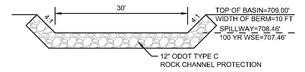
PERFORATION DETAIL



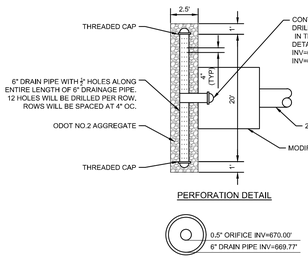
OUTLET CAP DETAIL



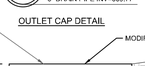
DETENTION OUTFALL STRUCTURE - SOUTH BASIN
11 C-501 — N.T.S.



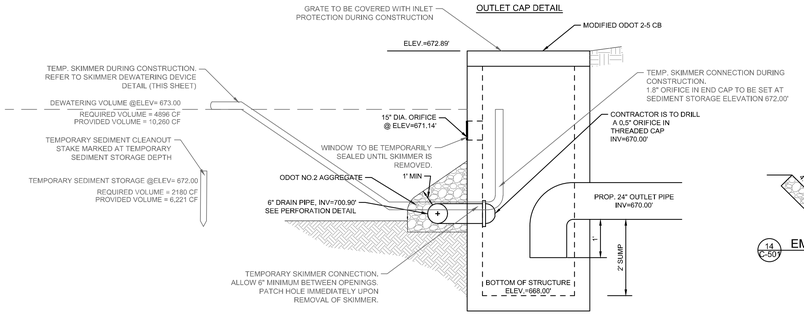
EMERGENCY SPILLWAY DETAIL
12 C-501 — N.T.S.



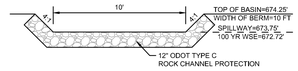
PERFORATION DETAIL



OUTLET CAP DETAIL



DETENTION OUTFALL STRUCTURE - NORTH BASIN
13 C-501 — N.T.S.



EMERGENCY SPILLWAY DETAIL
14 C-501 — N.T.S.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO — CRAIG A. HONKOMP — 58008 — REGISTERED PROFESSIONAL ENGINEER — 2/27/26

DRAWN BY:

PROJECT NUMBER: 222101.02

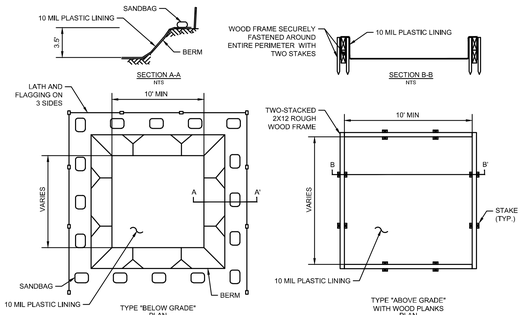
PROJECT ISSUE DATE: 2/27/2026

REV. NO	DESCRIPTION	DATE

GENERAL DETAILS

C-501

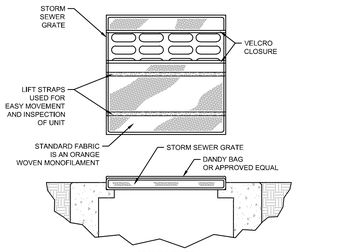
N:\Engineering\2021\2022\P\2105\02\02b_DWG_Sheets\2105C02b02.dwg, 2/27/2026 1:45:01 PM, DaveAur



NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

1 C-502 CONCRETE WASHOUT DETAIL
N.T.S.



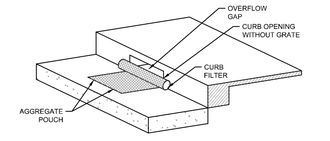
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC-1	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT; ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HAVING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

2 C-502 DANDY BAG DETAIL
N.T.S.



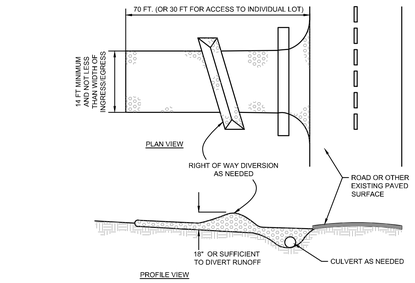
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC-1	2.1

INSTALLATION: PLACE DANDY CURB INLET PROTECTION UNIT ON GROUND WITH AGGREGATE POUCH ON STREET SIDE NEAR INLET IT WILL BE INSTALLED ON, TO INSTALL ABSORBENT, PLACE ABSORBENT SOCK IN POUCH. FILL POUCH WITH AGGREGATE SUCH AS #5-7, #S OR SIMILAR TO A LEVEL (AT LEAST 1/2 FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE DANDY CURB AND THE SURFACE OF THE STREET. RESEAL VELCRO ACCESS. CENTER THE UNIT AGAINST THE CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED. REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION.

3 C-502 DANDY CURB DETAIL
N.T.S.



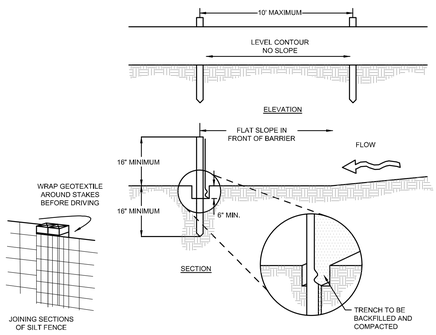
NOTES

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	$1X10^{-1}$ CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

4 C-502 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

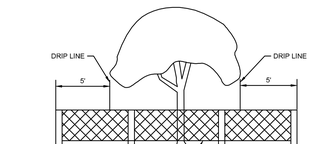
SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POST – THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
2. SILT FENCE FABRIC – SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

5 C-502 SILT FENCE DETAIL
N.T.S.



NOTES:

1. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND AND VEGETATION TO BE LEFT STANDING.
2. SIGNAGE SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
3. TREE AND NATURAL PRESERVATION AREA SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
4. FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH SNOW FENCE.
5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
7. NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE TREE PROTECTION AREA, INCLUDING DEPOSITION OF SEDIMENT.
8. WHERE UTILITIES MUST RUN THROUGH A TREE'S DRIP LINE, TUNNELING SHOULD BE USED TO MINIMIZE ROOT DAMAGE. TUNNELING SHOULD BE AT A MINIMUM DEPTH OF 24 INCHES FOR TREES LESS THAN 12 INCHES IN DIAMETER OR AT A MINIMUM DEPTH OF 36 INCHES FOR LARGER DIAMETER TREES.
9. WHERE TUNNELING WILL BE PERFORMED WITHIN THE DRIP LINE OF A TREE, THE TUNNEL SHOULD BE PLACED A MINIMUM OF 2 FEET AWAY FROM THE TREE TRUNK TO AVOID TAPROOTS.
10. MINIMIZE EXCAVATION OR TRENCHING WITHIN THE DRIP LINE OF THE TREE. ROUTE TRENCHES AROUND THE DRIP LINE OF TREES.
11. ROOTS 2 INCHES OR LARGER THAT ARE SEVERED BY TRENCHING SHOULD BE SAWN OFF NEATLY IN ORDER TO ENCOURAGE NEW GROWTH AND DISCOURAGE DECAY.
12. SOIL EXCAVATED DURING TRENCHING SHALL BE PILED ON THE SIDE AWAY FROM THE TREE.
13. ROOTS SHALL BE KEPT MOIST WHILE TRENCHES ARE OPEN AND REFILLED IMMEDIATELY AFTER UTILITIES ARE INSTALLED OR REPAIRED.

6 C-502 TREE PROTECTION DETAIL
N.T.S.

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO.	DESCRIPTION	DATE

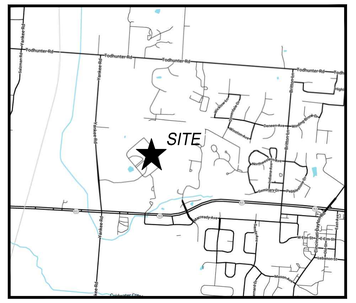
EROSION CONTROL DETAILS

C-502

H:\Engineering\2021\222101\Design\222101_CIVIL_Sheets\3188620CE6A29.dwg, 2/27/2026 1:46:03 PM, rbeachur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.





VICINITY MAP
N.T.S

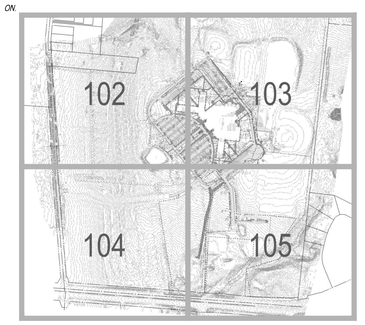
LEGEND:

- BENCHMARK
- SANITARY MANHOLE
- CLEANOUT
- MANHOLE
- CATCH BASIN
- INLET
- YARD DRAIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC OUTLET
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- TRANSFORMER
- GROUND LIGHT
- ELECTRIC MANHOLE
- PHONE BOX
- TELEPHONE MANHOLE
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- WATER SERVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- WATER SPIGOT
- WATER METER
- IRRIGATION CONTROL VALVE
- FLAG POLE
- BASKETBALL GOAL
- GUARD POST
- FENCE POST
- SINGLE POST SIGN
- HANDICAP

- FENCE LINE
- TREE LINE
- BUSH LINE
- GUARDRAIL
- WATER LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE
- RIP RAP

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA".
2. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.000089403904 APPLIED AT A BASE POINT OF N:433,444.00 E:1,437,157.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
3. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" USING GEOID CONUS 18 WITH REFERENCE TO THE FOLLOWING CONTROL MONUMENT: BUTLER COUNTY 99FC67.
4. SITE BENCHMARK AS SHOWN HEREON.
5. TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEYING METHODS AND LIDAR EQUIPMENT (LIGHT DETECTION AND RANGING) UTILIZING DJI MATRICE 300 RTK & PHOENIX RECON XT.
6. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.



0 60 120 240

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
2/27/2026
PROFESSIONAL ENGINEER

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

OVERALL SURVEY BASEMAP

V-101

H:\Engineering\2021\222101\02\03_DWG_Sheets\V101BASEMAP.dwg, 2/27/2026 1:46:24 PM, bbuchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

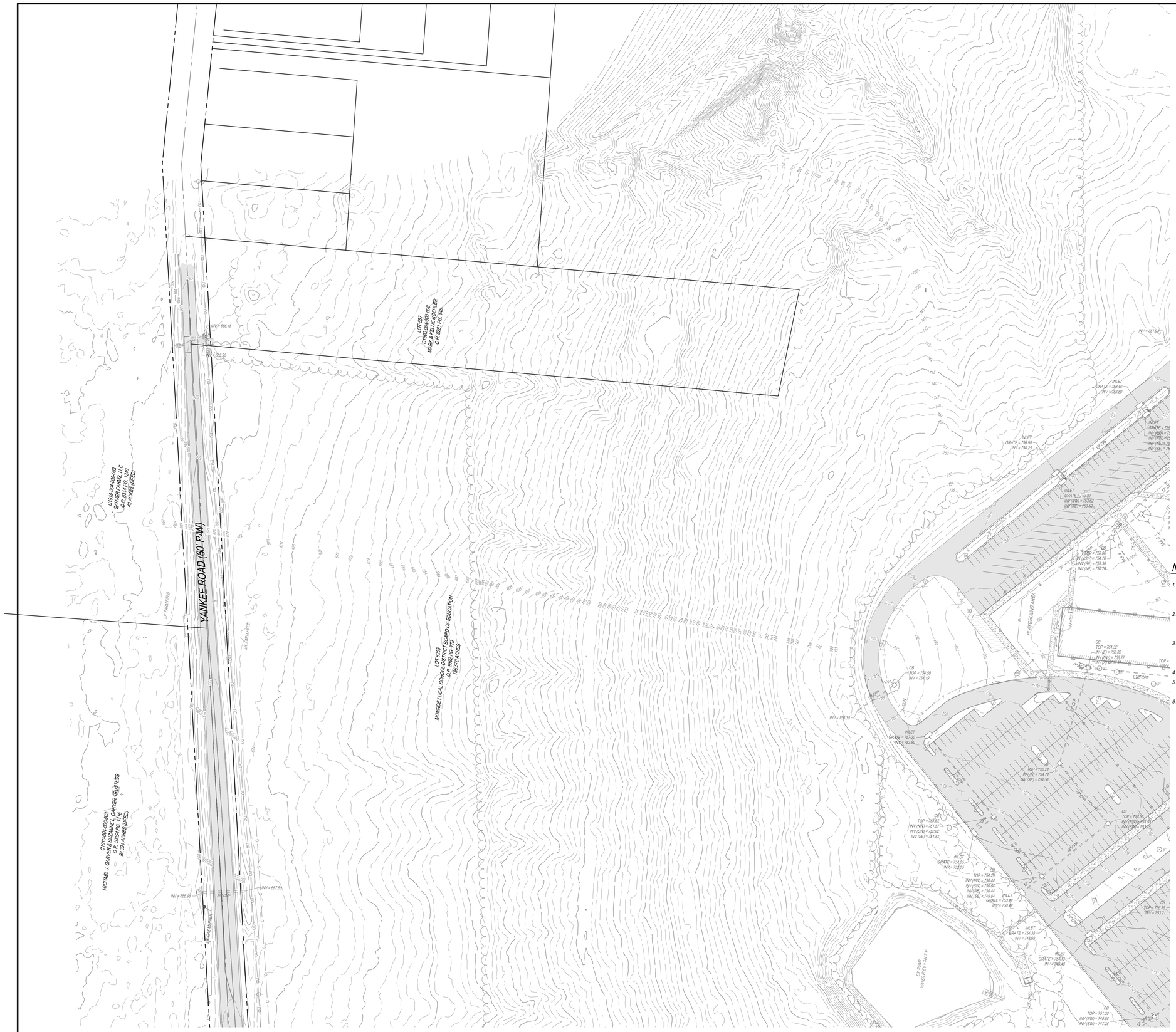
FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

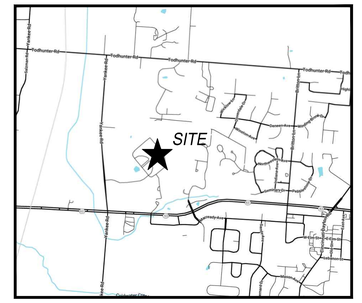
THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE | 6219 Centre Park Dr. West Chester, OH 45069 513.779.7851


LOT 557
CONVEYANCE NO.
MARK & KELLY SEILER
O.R. 6281 PG. 246
LOT 0255
MONROE LOCAL SCHOOL DISTRICT BD OF EDUCATION
O.R. 6281 PG. 179
188.570 ACRES
YANKEE ROAD (60' PAW)
EX. YANKEE ROAD
EX. FAIRFIELD
EX. FAIRFIELD
EX. 24" WATER
EX. 8" WATER
EX. 12" WATER
EX. 8" WATER
EX. 8" WATER
EX. 8

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.





VICINITY MAP
N.T.S

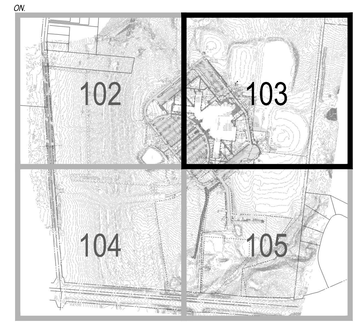
LEGEND:

- BENCHMARK
- SANITARY MANHOLE
- CLEANOUT
- MANHOLE
- CATCH BASIN
- INLET
- YARD DRAIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC OUTLET
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- TRANSFORMER
- GROUND LIGHT
- ELECTRIC MANHOLE
- PHONE BOX
- TELEPHONE MANHOLE
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- WATER SERVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- WATER SPIGOT
- WATER METER
- IRRIGATION CONTROL VALVE
- FLAG POLE
- BASKETBALL GOAL
- GUARD POST
- FENCE POST
- SINGLE POST SIGN
- HANDICAP

- FENCE LINE
- TREE LINE
- BUSH LINE
- GUARDRAIL
- WATER LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE
- RIP RAP

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA".
2. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.00009403904 APPLIED AT A BASE POINT OF N:433,444.00 E:1,437,157.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
3. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" USING GEOID CONUS 18 WITH REFERENCE TO THE FOLLOWING CONTROL MONUMENT: BUTLER COUNTY 99FC67.
4. SITE BENCHMARK AS SHOWN HEREON.
5. TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEYING METHODS AND LIDAR EQUIPMENT (LIGHT DETECTION AND RANGING) UTILIZING DJI MATRICE 300 RTK & PHOENIX RECON XT.
6. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.



0 30 60 120

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
2/7/2026

DRAWN BY:
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

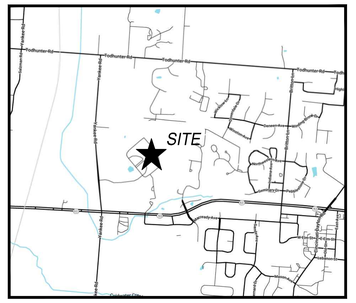
SURVEY BASEMAP

V-103

H:\Engineering\2021\222101.02\CAD_Sheets\0108SDSHEETS.dwg, 2/27/2026 1:46:36 PM, bouchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.





VICINITY MAP
N.T.S

LEGEND:

- BENCHMARK
- SANITARY MANHOLE
- CLEANOUT
- MANHOLE
- CATCH BASIN
- INLET
- YARD DRAIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC OUTLET
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- TRANSFORMER
- GROUND LIGHT
- ELECTRIC MANHOLE
- PHONE BOX
- TELEPHONE MANHOLE
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- WATER SERVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- WATER SPIGOT
- WATER METER
- IRRIGATION CONTROL VALVE
- FLAG POLE
- BASKETBALL GOAL
- GUARD POST
- FENCE POST
- SINGLE POST SIGN
- HANDICAP

- FENCE LINE
- TREE LINE
- BUSH LINE
- GUARDRAIL
- WATER LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER

- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH

- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE
- RIP RAP

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA".
2. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.00009403904 APPLIED AT A BASE POINT OF N:433,444.00 E:1,437,157.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
3. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" USING GEOID CONUS 18 WITH REFERENCE TO THE FOLLOWING CONTROL MONUMENT: BUTLER COUNTY 99FC67.
4. SITE BENCHMARK AS SHOWN HEREON.
5. TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEYING METHODS AND LIDAR EQUIPMENT (LIGHT DETECTION AND RANGING) UTILIZING DJI MATRICE 300 RTK & PHOENIX RECON XT.
6. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HEREON.



0 30 60 120

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

SURVEY BASEMAP

V-104

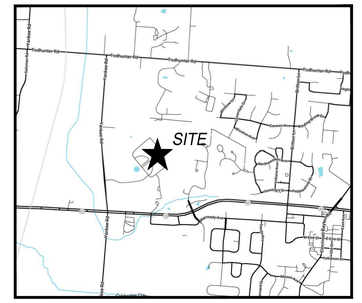
H:\Engineering\2021\2002\Plot\01992\CSM\02\Dwg_Sheets\01992CSM02Dwg_2-27-2026 1:46:49 PM_lbuechur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS



VICINITY MAP
N.T.S

LEGEND:

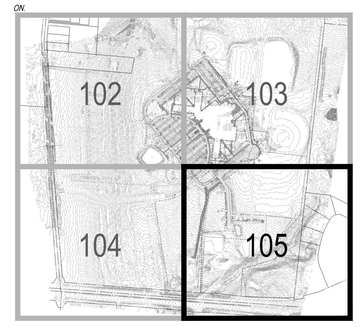
- BENCHMARK
- SANITARY MANHOLE
- CLEANOUT
- MANHOLE
- CATCH BASIN
- INLET
- YARD DRAIN
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC OUTLET
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- TRANSFORMER
- GROUND LIGHT
- ELECTRIC MANHOLE
- PHONE BOX
- TELEPHONE MANHOLE
- GAS METER
- FIRE HYDRANT
- WATER VALVE
- WATER SERVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- WATER SPIGOT
- WATER METER
- IRRIGATION CONTROL VALVE
- FLAG POLE
- BASKETBALL GOAL
- GUARD POST
- FENCE POST
- SINGLE POST SIGN
- HANDICAP

- FENCE LINE
- TREE LINE
- BUSH LINE
- GUARDRAIL
- WATER LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER

- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE
- RIP RAP

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA".
2. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.00009403904 APPLIED AT A BASE POINT OF N:433,444.00 E:1,437,157.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
3. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "LEBA" USING GEOID CONUS 18 WITH REFERENCE TO THE FOLLOWING CONTROL MONUMENT: BUTLER COUNTY 99FC67.
4. SITE BENCHMARK AS SHOWN HEREON.
5. TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEYING METHODS AND LIDAR EQUIPMENT (LIGHT DETECTION AND RANGING) UTILIZING DJI MATRICE 300 RTK & PHOENIX RECON XT.
6. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.



0 30 60 120

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
98008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

SURVEY BASEMAP

V-105

H:\Engineering\2021\2002\P\SURVEY\02b_DWG_Sheets\SURVEY_SHEETS.dwg, 2/27/2026 1:45:44 PM, Stuchfur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

2'x2' Signage
Dead End
All Traffic Turn
Left

YANKEE ROAD (60' R/W)

BUTLER TECH
MONROE CAMPUS
NATURAL SCIENCE CENTER

STATE ROUTE 63 (R/W VARIES)

Monroe LSD Access

Butler Tech / Construction Access

Butler Tech Access

Construction Access

Construction Fence

Construction Access Road (around bldg)

Double Gates



0 80 160 320

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY:

PROJECT NUMBER: 222101.02

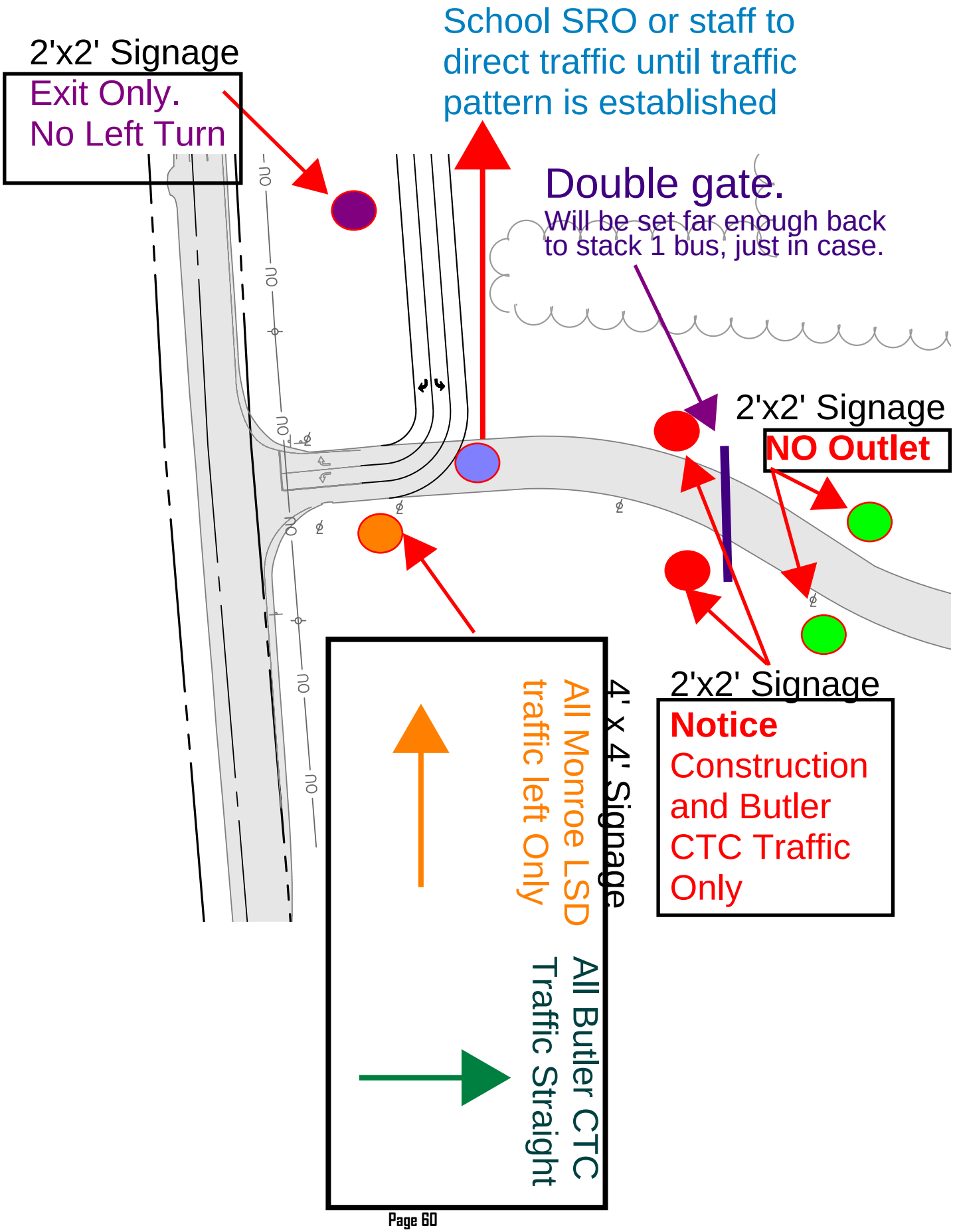
PROJECT ISSUE DATE: TBD

REV. NO △	DESCRIPTION	DATE

OVERALL LOCATION PLAN

C-103

Monroe LSD Traffic Control During Construction with Temporary Road



COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr,
West Chester, OH 45069
513.779.7851

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: TBD

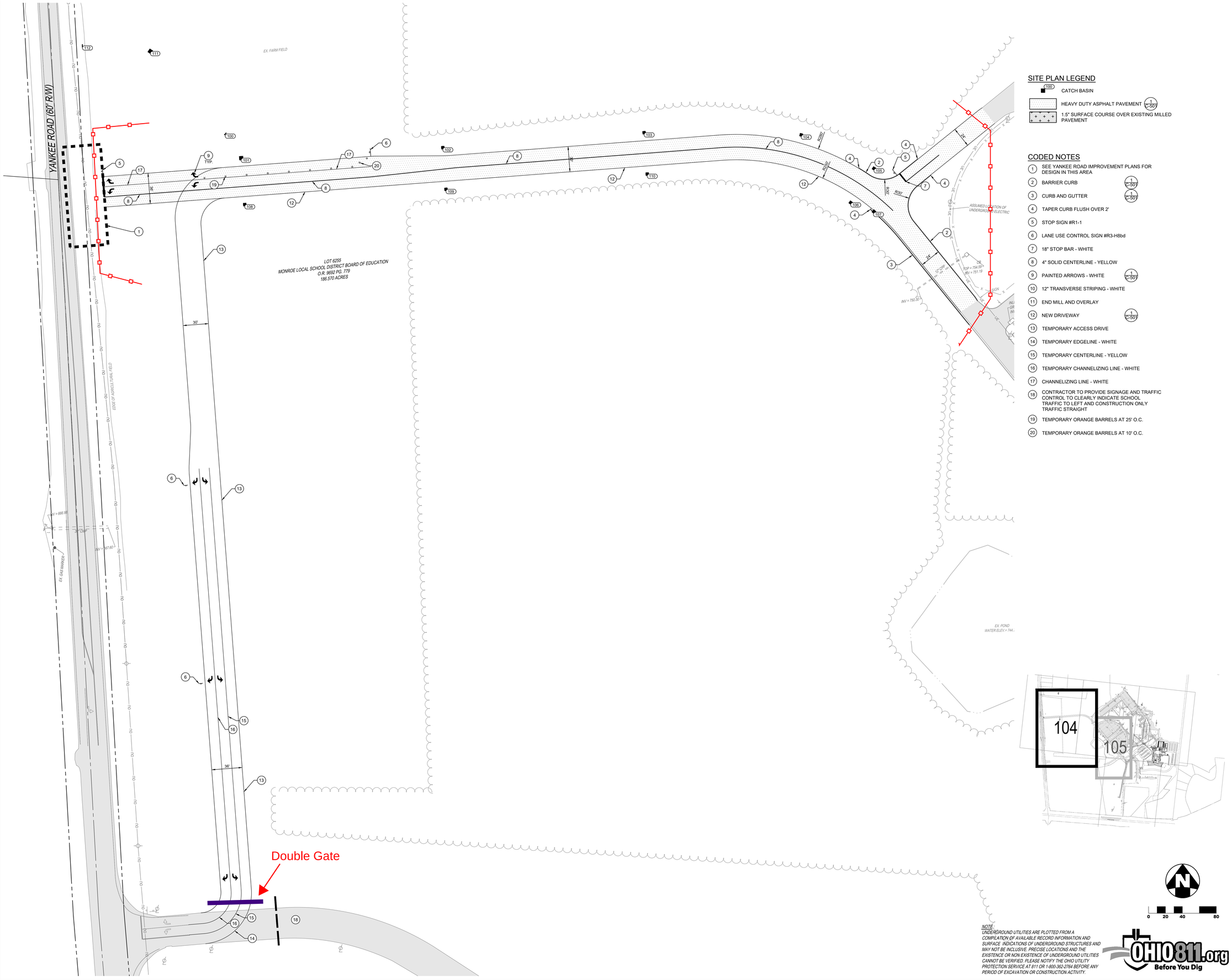
REV. NO.	DESCRIPTION	DATE

SITE PLAN LEGEND

- CATCH BASIN (100)
- HEAVY DUTY ASPHALT PAVEMENT (1/C-501)
- 1.5" SURFACE COURSE OVER EXISTING MILLED PAVEMENT

CODED NOTES

1. SEE YANKEE ROAD IMPROVEMENT PLANS FOR DESIGN IN THIS AREA
2. BARRIER CURB (1/C-501)
3. CURB AND GUTTER (1/C-501)
4. TAPER CURB FLUSH OVER 2'
5. STOP SIGN #R1-1
6. LANE USE CONTROL SIGN #R3-H8bd
7. 18" STOP BAR - WHITE
8. 4" SOLID CENTERLINE - YELLOW
9. PAINTED ARROWS - WHITE (1/C-501)
10. 12" TRANSVERSE STRIPING - WHITE
11. END MILL AND OVERLAY
12. NEW DRIVEWAY (1/C-501)
13. TEMPORARY ACCESS DRIVE
14. TEMPORARY EDGELINE - WHITE
15. TEMPORARY CENTERLINE - YELLOW
16. TEMPORARY CHANNELIZING LINE - WHITE
17. CHANNELIZING LINE - WHITE
18. CONTRACTOR TO PROVIDE SIGNAGE AND TRAFFIC CONTROL TO CLEARLY INDICATE SCHOOL TRAFFIC TO LEFT AND CONSTRUCTION ONLY TRAFFIC STRAIGHT
19. TEMPORARY ORANGE BARRELS AT 25' O.C.
20. TEMPORARY ORANGE BARRELS AT 10' O.C.



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

LOCATION PLAN - NEW DRIVE

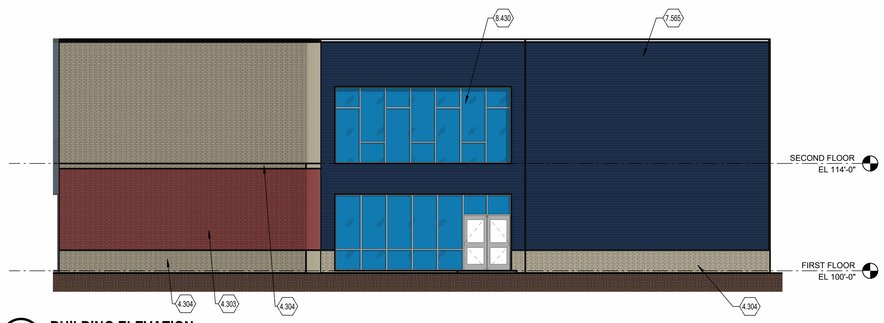
C-104



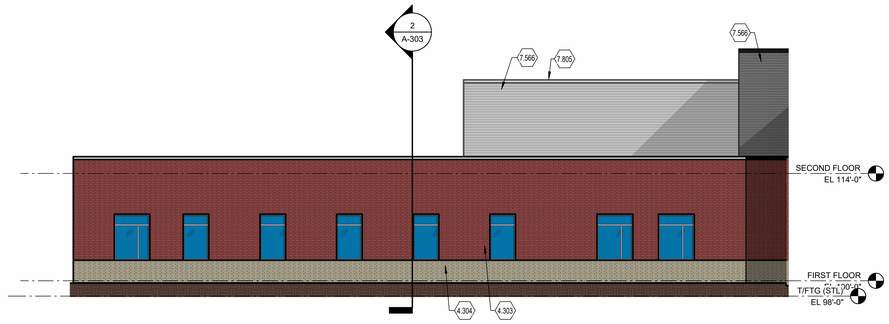
1 WEST OVERALL
SCALE: 1/16" = 1'-0"



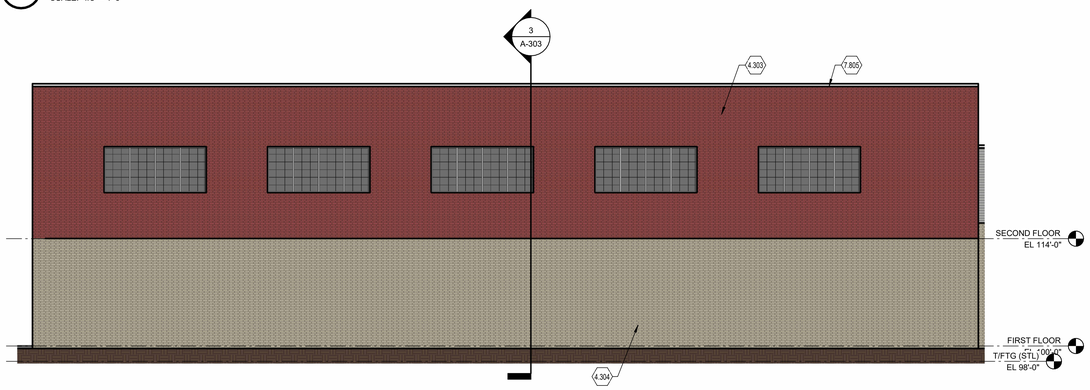
2 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



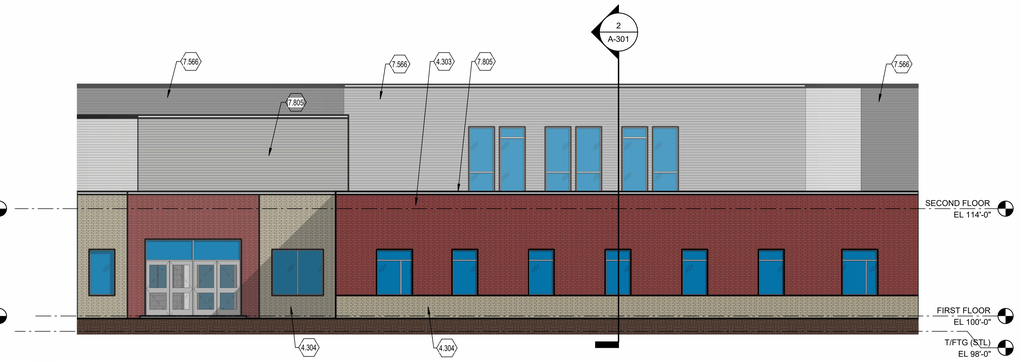
3 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



4 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



5 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



6 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.

B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
4.303	BRICK A (RED) - MODULAR SIZE FACE BRICK
4.304	BRICK B (TAN) - MODULAR SIZE FACE BRICK
5.700	METAL COLUMN COVER
7.540	STANDING SEAM METAL ROOF PANELS
7.565	COLOR A - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.566	COLOR B - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.567	COLOR C - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, SMOOTH (VERTICAL)
7.805	METAL COPING
8.430	STOREFRONT FRAMING
10.230	DIMENSIONAL LETTER SIGNAGE

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

500 Yankee Rd
Monroe, OH 45050

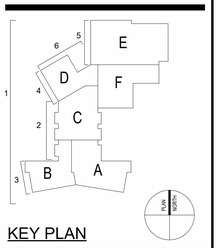
MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT



KEY PLAN

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY: BNC
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: 12.17.2025

REV. NO.	DESCRIPTION	DATE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

BUILDING ELEVATIONS

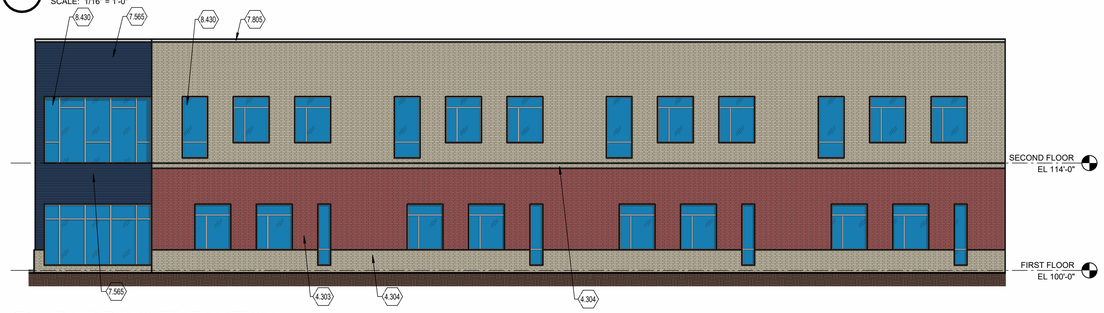
A-201

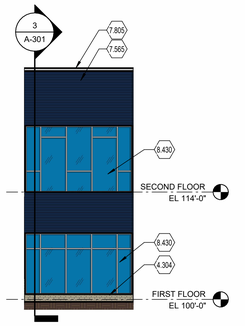
Autodesk Docs://Monroe LS_New High School/2025_ARCH_222101.02.rvt
2/23/2026 12:33:41 PM



1 SOUTH OVERALL

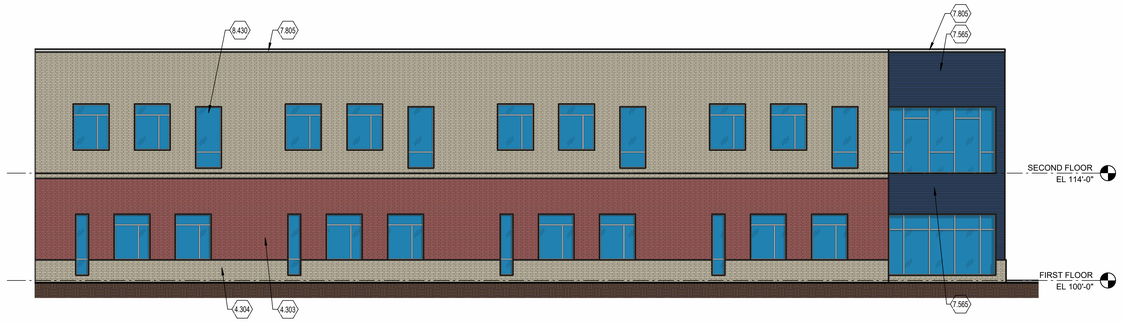
SCALE: 1/16" = 1'-0"





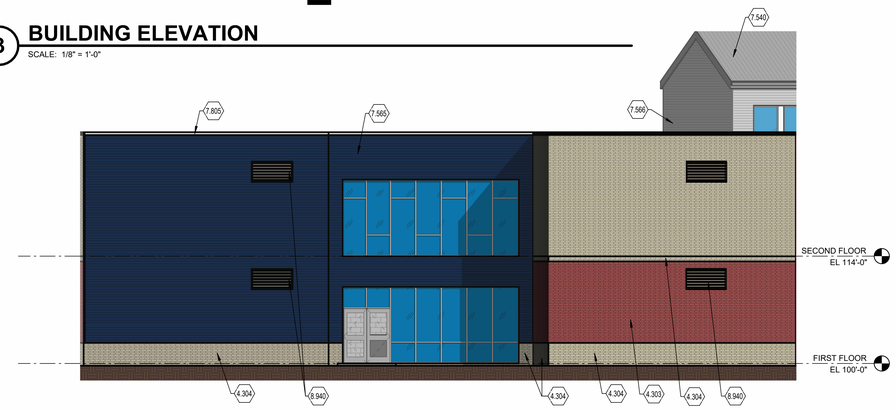
2 BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



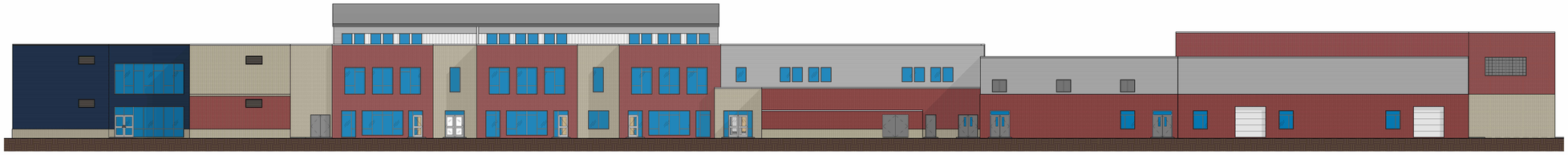
3 BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



4 BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



5 BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

6 EAST OVERALL

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



7 BUILDING ELEVATION

SCALE: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.

B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
4.303	BRICK A (RED) - MODULAR SIZE FACE BRICK
4.304	BRICK B (TAN) - MODULAR SIZE FACE BRICK
7.540	STANDING SEAM METAL ROOF PANELS
7.565	COLOR A - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.566	COLOR B - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.567	COLOR C - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, SMOOTH (VERTICAL)
7.805	METAL COPING
8.430	STOREFRONT FRAMING
8.940	FIXED LOUVER - REFER TO MECHANICAL DRAWINGS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

500 Yankee Rd
Monroe, OH 45050

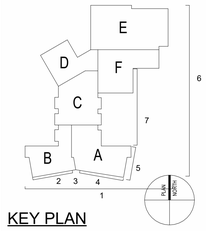
MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT



KEY PLAN

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY: BNC

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 12.17.2025

REV. NO.	DESCRIPTION	DATE

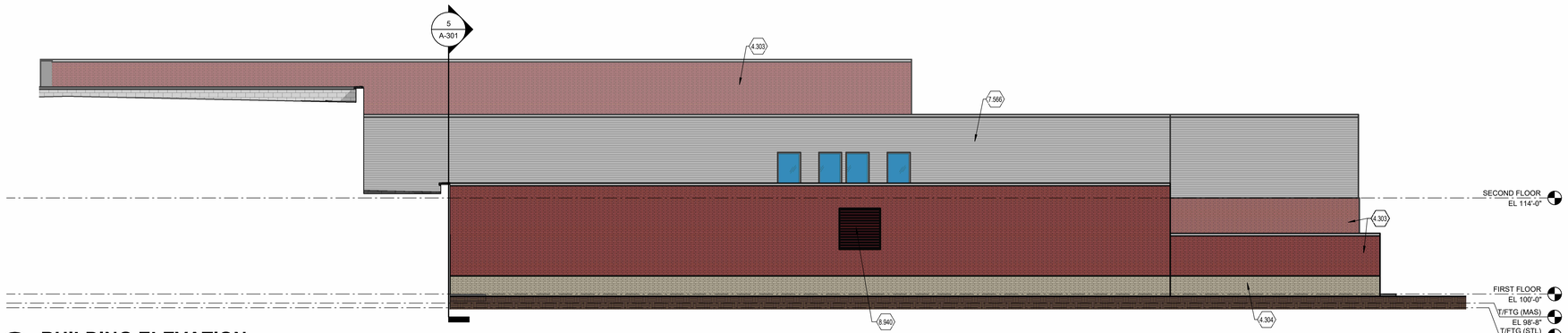
BUILDING ELEVATIONS

A-202

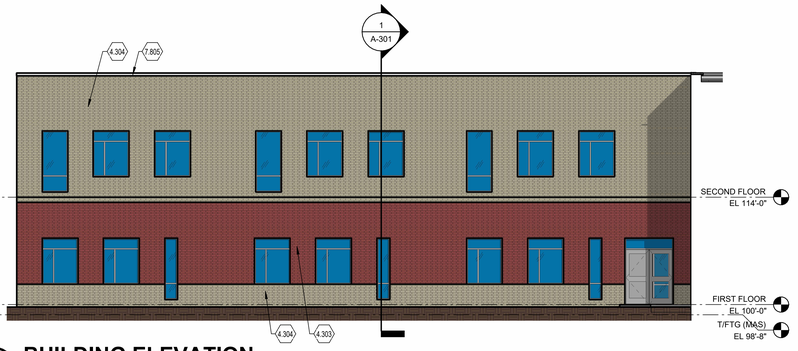
Autodesk Docs://Monroe LS_New High School/2025_ARCH_222101.02.rvt
2/23/2026 12:34:21 PM



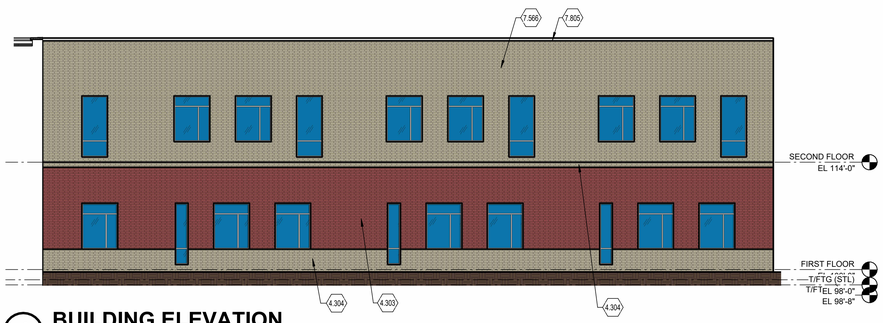
1 NORTH OVERALL
SCALE: 1/16" = 1'-0"



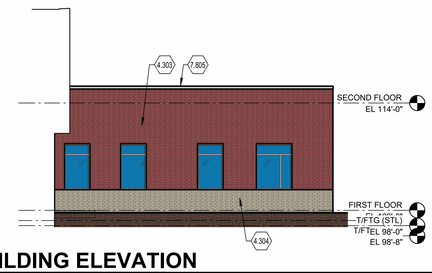
2 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



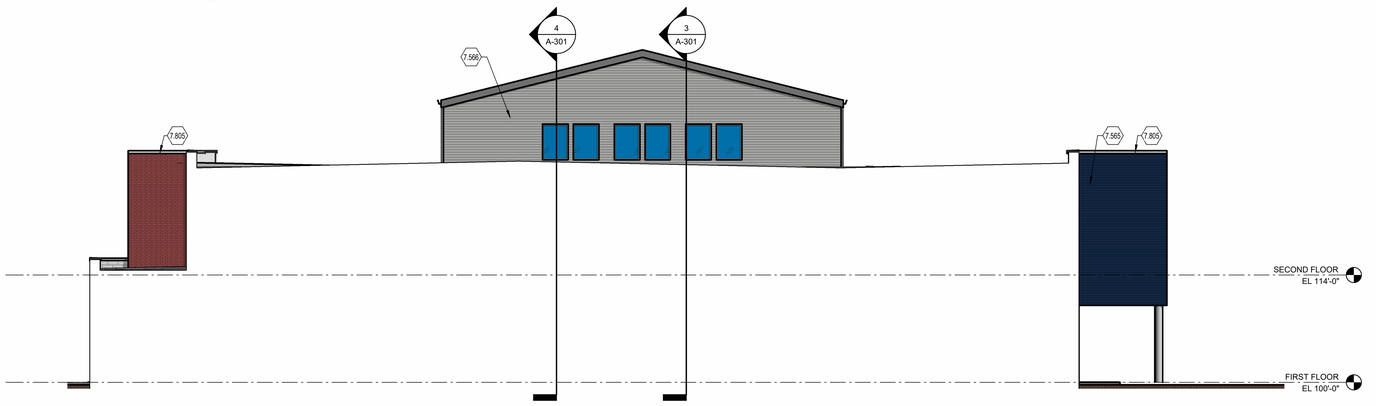
3 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



4 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



5 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



6 BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.

B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
4.303	BRICK A (RED) - MODULAR SIZE FACE BRICK
4.304	BRICK B (TAN) - MODULAR SIZE FACE BRICK
7.565	COLOR A - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.566	COLOR B - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.805	METAL COPING
8.940	FIXED LOUVER - REFER TO MECHANICAL DRAWINGS

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

500 Yankee Rd
Monroe, OH 45050

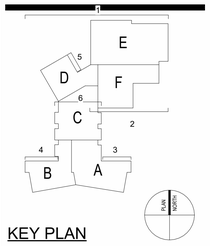
MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT



KEY PLAN

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY: BNC

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 12.17.2025

REV. NO.	DESCRIPTION	DATE

VERIFICATION NOTE

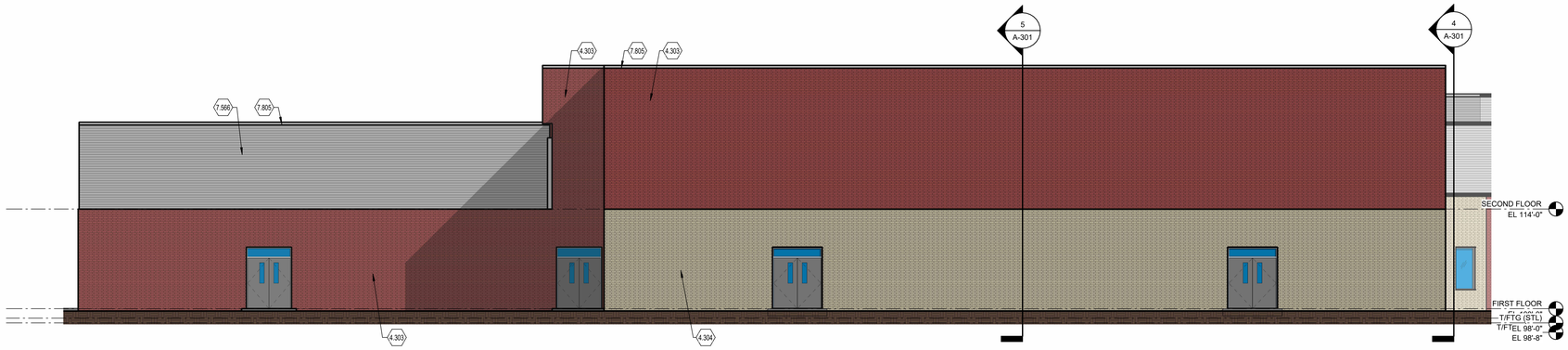
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

BUILDING ELEVATIONS

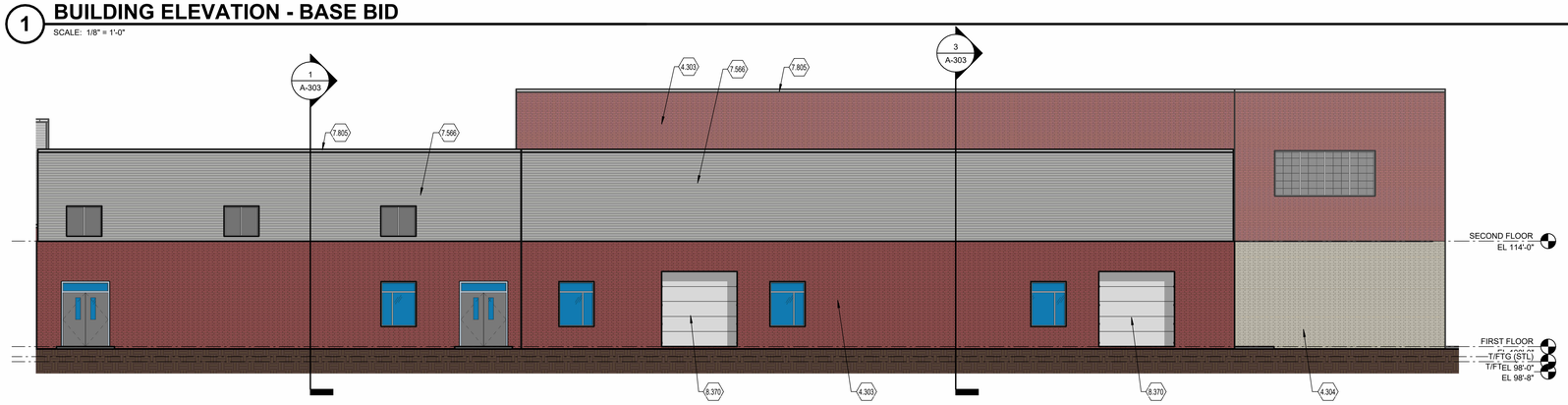
A-203

Autodesk Docs://Monroe LS_New High School/2025_ARCH_222101.02.rvt
2/23/2026 12:34:53 PM



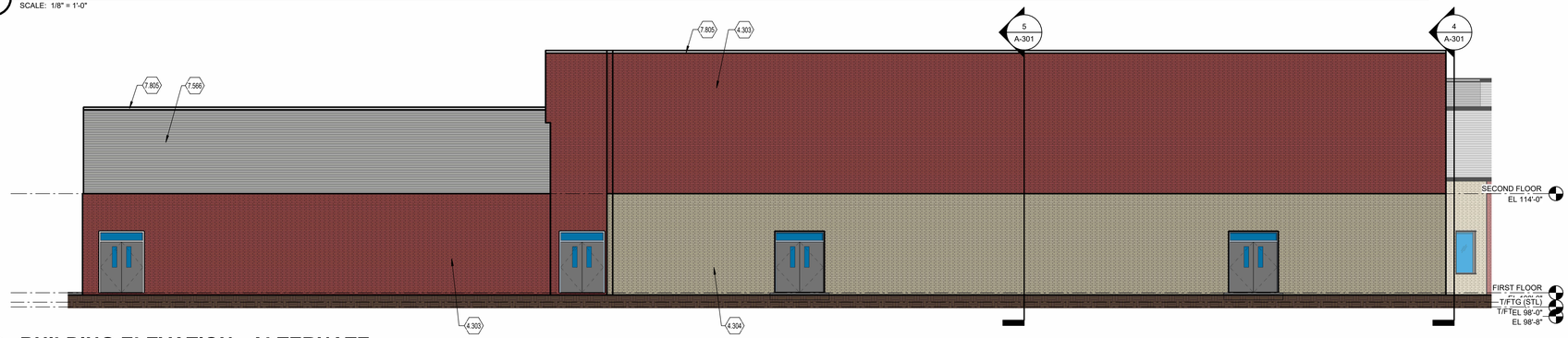
1 BUILDING ELEVATION - BASE BID

SCALE: 1/8" = 1'-0"



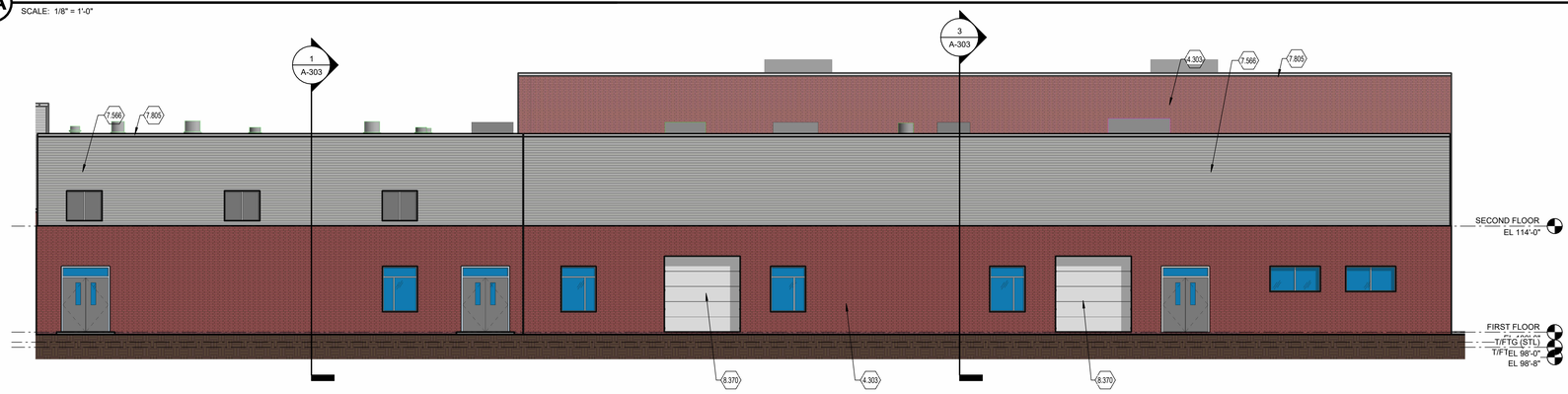
2 BUILDING ELEVATION - BASE BID

SCALE: 1/8" = 1'-0"



1A BUILDING ELEVATION - ALTERNATE

SCALE: 1/8" = 1'-0"



2A BUILDING ELEVATION - ALTERNATE

SCALE: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.

B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
4.303	BRICK A (RED) - MODULAR SIZE FACE BRICK
4.304	BRICK B (TAN) - MODULAR SIZE FACE BRICK
7.566	COLOR B - CONCEALED FASTENER, LAP-SEAM METAL WALL PANEL, RIBBED (HORIZONTAL)
7.805	METAL COPING
8.370	SECTIONAL DOOR

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

500 Yankee Rd
Monroe, OH 45050

MONROE LOCAL SCHOOLS

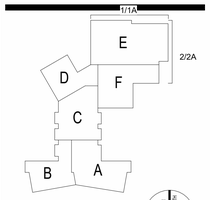
ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

T/1A



KEY PLAN

DESIGN DEVELOPMENT

NOT FOR CONSTRUCTION

DRAWN BY: BNC

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 12.17.2025

REV. NO.	DESCRIPTION	DATE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

BUILDING ELEVATIONS

A-204

Autodesk Docs://Monroe LS_New High School/2025_ARCH_222101.02.rvt
2/23/2026 12:35:39 PM

COPYRIGHT 2026 BY FANNING/HOWEY ASSOCIATES, INC.

GENERAL LANDSCAPE NOTES

1. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE DRAINS. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE INSTALLATION PROCESS.
2. ALL PLANTING OPERATIONS AND MATERIALS SHALL ADHERE TO THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION. ALL EVERGREEN, ORNAMENTAL AND SHADE TREES ARE TO HAVE ONE SINGLE DOMINANT LEADER, UNLESS SPECIFIED AS CLUMP OR MULTI-STEMMED.
3. PROTECT ALL VEGETATION NOT SCHEDULED TO BE REMOVED. ANY DAMAGE TO VEGETATION THAT IS TO REMAIN SHALL BE REPLACED WITH LIKE SPECIES AND SIZE.
4. ALL SUBSTITUTIONS AND PLAN CHANGES MUST BE APPROVED BY THE ARCHITECT PRIOR TO ANY ACTION TAKEN.
5. PLANTING SOIL AND MULCH FOR ALL TREES AND SHRUBS SHALL BE PER APPROPRIATE DETAIL.
6. FINE GRADE, TOPSOIL, AND SEED ALL DISTURBED AREAS. TAKE SPECIAL CARE NOT TO OVERSEED ONTO PAVED AREAS.
7. SEED ALL DISTURBED AREAS WITH SPECIFIED SEED MIXTURE PER THE SPECIFICATIONS.
8. REMOVE EXISTING VEGETATIVE GROWTH FROM THE AREAS TO BE SEEDED AND SURFACE TILL TO A DEPTH OF FOUR (4) INCHES. IF THE GROUND IS WET, DELAY TILLING UNTIL THE SOIL DRIES ENOUGH TO BREAK APART WHEN TILLED.
9. LIGHTLY COMPACT TILLED SOIL WITH A ROLLER, CULTIPACKER OR SIMILAR IMPLEMENT.
10. THE CONTRACTOR SHALL MAINTAIN THE COMPLETED LANDSCAPE UNTIL THE DATE OF FINAL ACCEPTANCE PER THE SPECIFICATIONS.
11. SHOULD A DISCREPANCY BE FOUND BETWEEN THE PLANTING PLAN AND PLANT SCHEDULE, THE PLANTING PLAN SHALL TAKE PRECEDENCE.

PLANT BEDS:
SUBGRADE IS TO BE TILLED TO A DEPTH OF 18 INCHES PRIOR TO PLACEMENT OF TOPSOIL. A SOIL TEST IS TO BE PROVIDED FOR THE EXISTING STOCKPILED TOPSOIL AND IT IS TO BE AMENDED PER THE RECOMMENDATIONS OF THE TESTING AGENCY FOR OPTIMUM LAWN, SHRUB AND TREE GROWTH. 12 INCHES OF AMENDED TOPSOIL IS TO BE PLACED OVER TILLED SUBGRADE.

LEGEND

PROPOSED MEDIUM TREE

PROPOSED SHRUB

AC / 3 — PLANT KEY, REFER TO PLANT LIST; QUANTITY

PLANT LIST

DECIDUOUS TREES: TO BE FURNISHED BALLED AND BURLAPPED (B & B)

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT
AF	ACER RUBRUM 'FRANKSRED'	RED SUNSET MAPLE	2.5" CAL.	B&B
CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2.5" CAL.	B&B
FG	FAGUS GRANDIFOLIA	AMERICAN BEECH	2.5" CAL.	B&B
GT	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2.5" CAL.	B&B
NS	NYSSA SYLVATICA	BLACK GUM	2.5" CAL.	B&B
LP	PLATANUS X ACERIFOLIA	LONDON PLANETREE	2.5" CAL.	B&B
UP	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2.5" CAL.	B&B

EVERGREEN TREES: TO BE FURNISHED BALLED AND BURLAPPED (B&B)

PA	PICEA ABIES	NORWAY SPRUCE	6'-7' HEIGHT	B&B

SHRUBS: TO BE FURNISHED BALLED AND BURLAPPED OR CONTAINERS

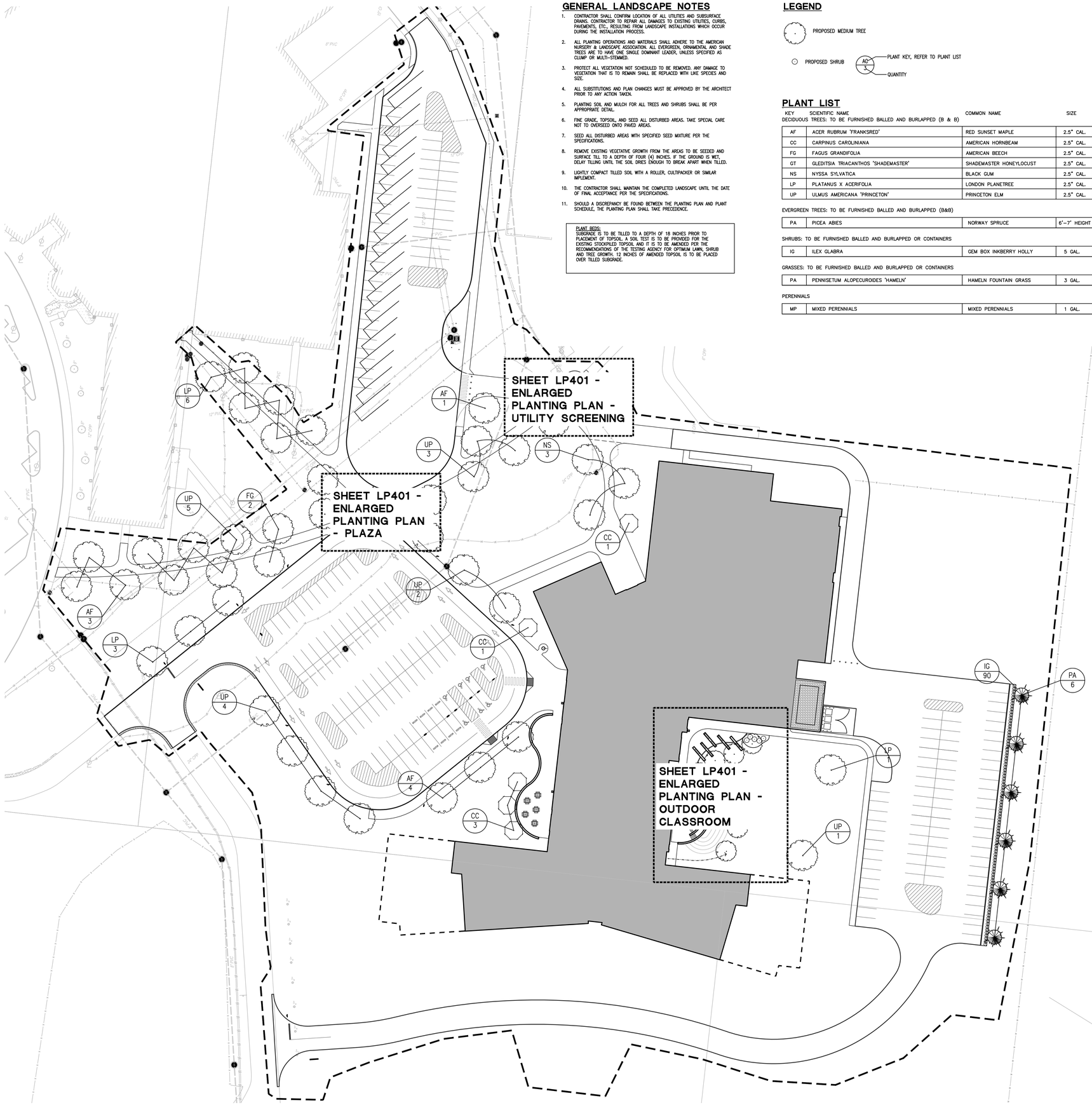
IG	ILEX GLABRA	GEM BOX INKBERRY HOLLY	5 GAL.	CONT.

GRASSES: TO BE FURNISHED BALLED AND BURLAPPED OR CONTAINERS

PA	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	3 GAL.	CONT.

PERENNIALS

MP	MIXED PERENNIALS	MIXED PERENNIALS	1 GAL.	CONT.



NORTH

0 20' 40' 80'

SCALE: 1" = 40'-0"

PLANTING PLAN

SCALE: 1" = 40'-0"

NEW HIGH SCHOOL

220 YANKEE
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

DRAWN BY: KNB

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: TBD

REV. NO.△	DESCRIPTION	DATE

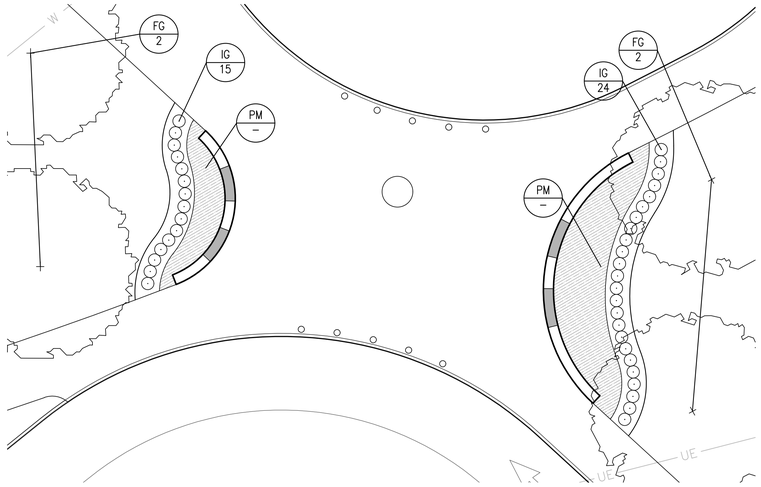
PLANTING PLAN

LP101

GENERAL LANDSCAPE NOTES

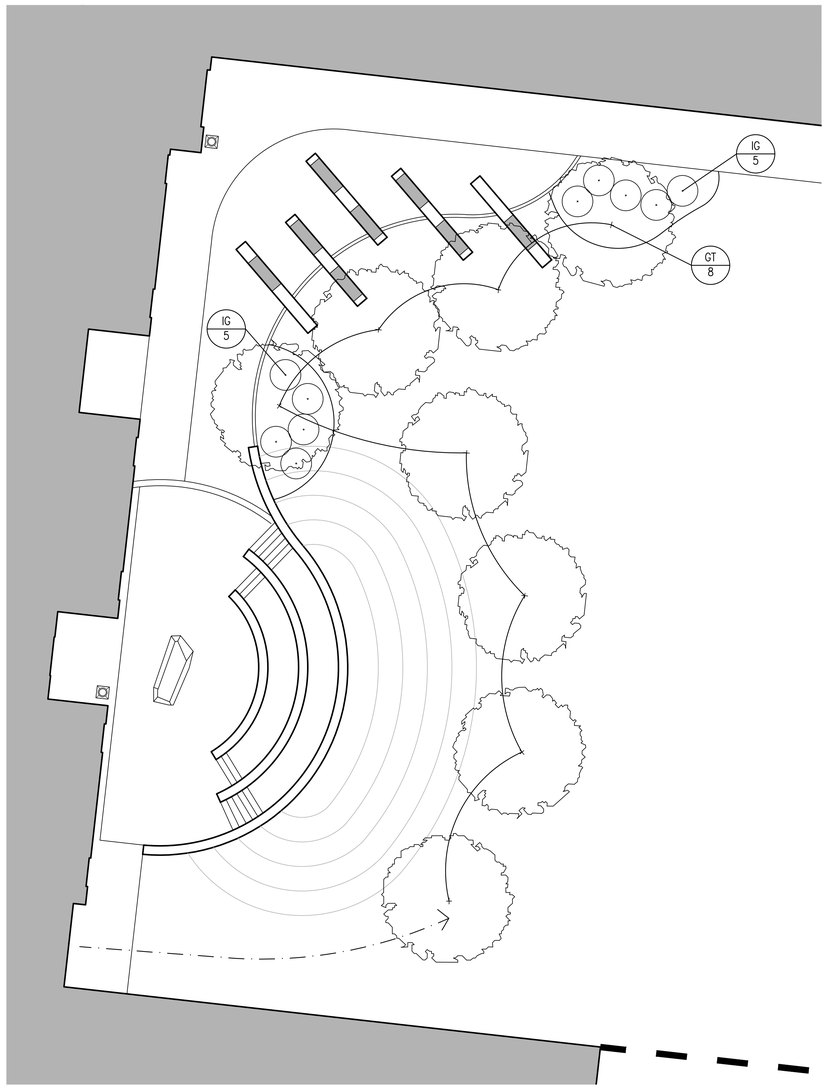
1. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE DRAINS. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE INSTALLATION PROCESS.
2. ALL PLANTING OPERATIONS AND MATERIALS SHALL ADHERE TO THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION. ALL EVERGREEN, ORNAMENTAL AND SHADE TREES ARE TO HAVE ONE SINGLE DOMINANT LEADER, UNLESS SPECIFIED AS CLUMP OR MULTI-STEMMED.
3. PROTECT ALL VEGETATION NOT SCHEDULED TO BE REMOVED. ANY DAMAGE TO VEGETATION THAT IS TO REMAIN SHALL BE REPLACED WITH LIKE SPECIES AND SIZE.
4. ALL SUBSTITUTIONS AND PLAN CHANGES MUST BE APPROVED BY THE ARCHITECT PRIOR TO ANY ACTION TAKEN.
5. PLANTING SOIL AND MULCH FOR ALL TREES AND SHRUBS SHALL BE PER APPROPRIATE DETAIL.
6. FINE GRADE, TOPSOIL, AND SEED ALL DISTURBED AREAS. TAKE SPECIAL CARE NOT TO OVERSEED ONTO PAVED AREAS.
7. SEED ALL DISTURBED AREAS WITH SPECIFIED SEED MIXTURE PER THE SPECIFICATIONS.
8. REMOVE EXISTING VEGETATIVE GROWTH FROM THE AREAS TO BE SEEDED AND SURFACE TILL TO A DEPTH OF FOUR (4) INCHES. IF THE GROUND IS WET, DELAY TILLING UNTIL THE SOIL DRIES ENOUGH TO BREAK APART WHEN TILLED.
9. LIGHTLY COMPACT TILLED SOIL WITH A ROLLER, CULTIPACKER OR SIMILAR IMPLEMENT.
10. THE CONTRACTOR SHALL MAINTAIN THE COMPLETED LANDSCAPE UNTIL THE DATE OF FINAL ACCEPTANCE PER THE SPECIFICATIONS.
11. SHOULD A DISCREPANCY BE FOUND BETWEEN THE PLANTING PLAN AND PLANT SCHEDULE, THE PLANTING PLAN SHALL TAKE PRECEDENCE.

PLANT BEDS:
SUBGRADE IS TO BE TILLED TO A DEPTH OF 18 INCHES PRIOR TO PLACEMENT OF TOPSOIL. A SOIL TEST IS TO BE PROVIDED FOR THE EXISTING STOCKPILED TOPSOIL AND IT IS TO BE AMENDED PER THE RECOMMENDATIONS OF THE TESTING AGENCY FOR OPTIMUM LAWN, SHRUB AND TREE GROWTH. 12 INCHES OF AMENDED TOPSOIL IS TO BE PLACED OVER TILLED SUBGRADE.



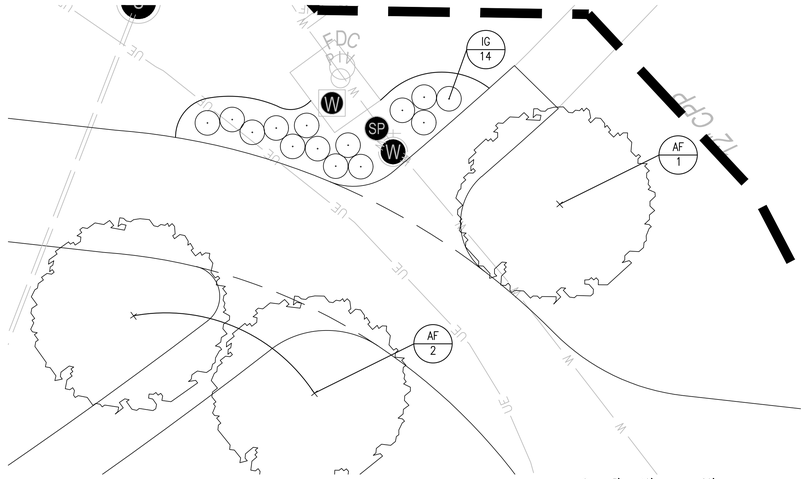
ENLARGED PLANTING PLAN - PLAZA
SCALE: 1" = 10'-0"

0 5' 10' 20'
SCALE: 1" = 10'-0"



ENLARGED PLANTING PLAN - OUTDOOR CLASSROOM
SCALE: 1" = 10'-0"

0 5' 10' 20'
SCALE: 1" = 10'-0"



UTILITY SCREENING
SCALE: 1" = 10'-0"

0 5' 10' 20'
SCALE: 1" = 10'-0"

NORTH

COPYRIGHT 2026 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM
CONSULTANT

CONSTRUCTION DOCUMENTS

NOT FOR CONSTRUCTION

DRAWN BY: AC
PROJECT NUMBER: 222101.02
PROJECT ISSUE DATE: TBD

REV. NO.	DESCRIPTION	DATE

ENLARGED PLANTING PLANS

LP401

THE KLEINGERS GROUP

CINCINNATI
COLUMBUS
DAYTON
LOUISVILLE

6219 Centre Park Drive
West Chester, OH 45069
phone 513.779.7851
fax 513.779.7852
www.kleingers.com

Stormwater and Detention Report

For

The City of Monroe

Monroe High School



February 27, 2026

Prepared by: Michael George, P.E.

JOB #: 010862.029

Contents

Stormwater Management Plan 1
Site Description 1
Applicable Permits 1
Hydrologic Methodologies 1
Critical Year Event Calculation 2
Water Quality Volume 2
Overland Detention and Structure 2
Results Summary 2
Storm Sewer Calculations 5
Results Summary 5
Appendices .....
Appendix A: Water Quality Calculations & Outlet Structure Detail 6
Appendix B: Drainage Maps – Pre-Developed Maps & Post-Developed Maps 7
Appendix C: HydroCAD Calculations 8
Appendix D: Local Drainage Map & Storm Sewer Calculations 9

Tables and Figures

Table 1: Critical Year Calculation 1
Table 2: Critical Storm 1-yr Events 2
Table 3: Predeveloped Flow Rates 2
Table 4: Post Developed Flows and Detention 3

Stormwater Management Plan

Site Description

The existing site is located at 220 Yankee Road in Monroe, Ohio. The development includes an existing school and parking lot that is served by an existing dry detention pond. The proposed project includes a new school building and new parking lots to the east of the existing school, including new utilities and storm sewer. A new driveway from Yankee Road to the parking lot of the existing school building is also being proposed. These two areas of development will each require their own basin with individual analyses but are under one stormwater management plan.

Drainage from the school area generally drains north to south. Impervious areas in the existing condition drain to sewers that route stormwater to 2 different on-site detention basins. All the proposed improvements associated with the new high school building will be routed to the existing detention pond on the south of the site which is being expanded to accommodate the increase in impervious area. The pre-developed area is 29.89 acres with a curve number of 78. The post-developed captured area is 37.22 acres with a curve number of 88. Per the OEPA general construction stormwater permit requirements, hydrologic soil groups for curve number calculations were adjusted to post construction conditions for the post developed curve number calculation. The tributary area includes 0.73 acres of bypass with a curve number of 74. There are 0.37 acres of post-developed uncaptured area with a curve number of 84 (see Appendix B for Pre and Post Developed Drainage Maps).

Drainage from the new driveway area generally drains east to west. The existing primary land use of the 2.18 acres of disturbed area is wooded and agricultural cover, with curve numbers of 77 and 85, respectively. Using a weighted average, the curve number for the pre-developed area is 81. The post-developed captured area is 1.89 acres with a weighted curve number of 87. Per the OEPA general construction stormwater permit requirements, hydrologic soil groups for curve number calculations were adjusted to post construction conditions for the post developed curve number calculation. There are 0.83 acres of offsite bypass with a curve number of 80. There is also 0.29 acres of post-developed uncaptured area with a curve number of 89 (see Appendix B for Pre and Post Developed Drainage Maps).

The new dry detention basins will provide both detention and water quality treatment which is accomplished through the provision of an outlet structure, protected inlet flow for stormwater pretreatment, and an emergency spillway (see Appendix A for outlet structure and spillway details).

To set the time of concentration for the pre-developed condition of the south basin, a conservative approach was taken: The Kleingers Group prepared a stormwater report in May 2002 calculating a time of concentration of 42.75 minutes. Since this time, modern hydrologic calculations use a reduced maximum length of sheet flow, resulting in reduced times of concentration. By keeping the past calculated time of concentration, the allowable release rate in the new post-developed condition is reduced. New calculated times of concentration for the pre-developed condition of the north basin and for the post developed conditions of both basins can be found in the HydroCAD report in Appendix C.

Applicable Permits

An OEPA NOI will be needed. Additionally, the proposed site will disturb more than one acre and be subject to the post-construction stormwater management requirements set forth in the Construction Site Storm Water General Permit from the Ohio EPA. The permit requires projects to capture and treat stormwater for a storm event of 0.90 inches.

Hydrologic Methodologies

The City of Monroe requires projects to adhere to the stormwater management requirements Monroe OH Code of Ordinances. These regulations stipulate a critical year storm method where the percent increase in runoff from the 1 year, 24-hour storm frequency determines the critical storm event (Table 1 & 2). The post-developed runoff must be controlled for storms of a frequency between one year and the critical storm so that the rate of runoff does not exceed the peak rate of runoff for a pre-developed, 24-hour, 1-year frequency storm. Additionally, under post-developed conditions, runoff rates for all storm events greater than the critical storm event need only be controlled to meet pre-developed peak discharge rates for each of those same storms.

Rainfall data was obtained from NOAA Atlas 14 for the City of Monroe.

Table 1: Critical Year Calculation

IF THE PERCENTAGE OF INCREASE IN VOLUME OF RUNOFF IS:		
Equal to or greater than	and less than	The critical storm for peak rate control will be
N/A	10	1 year
10	20	2 year
20	50	5 year
50	100	10 year
100	250	25 year
250	500	50 year
500	N/A	100 year

Critical Year Event Calculation – South Basin

The volume and flows that were obtained for the pre-developed and post developed 1-yr case were derived from the HydroCAD calculations for the detention model shown in Appendix C, and are shown in the following tables:

Table 2: Critical Storm 1-yr Events

SOUTH BASIN PRE-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	76,485	13.81

SOUTH BASIN POST-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	173,078	41.08

(173,078 – 76,485) / 76,485 = 1.263 = 126.3 % Increase in Volume therefore the Critical Year Storm is the 25-year frequency.

Water Quality Volume – South Basin

The required water quality volume (WQv) has been calculated per the OEPA equation in Appendix A. The required WQv = 57,449 Cubic Feet (CF). In lieu of a forebay and micropool, 20% extra volume was added to the

water quality volume, making the WQv = 68,938 Cubic Feet (CF). In addition to the extra volume, we are providing a protected outlet of perforated PVC embedded in rock. This volume is handled with a 3.5" drilled orifice in the riser pipe of the outlet structure. The outlet structure detail and water quality drawdown calculations are also shown in Appendix A.

Overland Detention and Structure – South Basin

To ensure the post developed stormwater flows are kept under the allowable release rate of the new dry pond per the City of Monroe's regulations, a control structure was designed to regulate the release. The outlet structure consists of the following: The outlet structure is a modified 2-5 catch basin with a 3.5" diameter water quality orifice at invert elevation 701.00'. For stormwater quantity management, the follwing orifices and windows are provided: an 18" diameter orifice at elevation 704.80' and four windows, one on each side of the structure that are 60" wide and 12" in height, at invert elevation 706.98'. The grate elevation of the structure is 708.48'. The 30" culvert out was designed to convey 100-year flows if it must. The detention basin also has an emergency spillway with a width of 30'. The bottom of the spillway is at elevation 708.46' and the top is at elevation 709.00.' See Appendix A for outlet structure details and spillways details/calulcations.

Results Summary – South Basin

The detention volume was checked by using HydroCAD calculations included in Appendix C of this report. A list of regulated rates and storage elevations of the detention facility are shown below.

Table 3: Predeveloped Flow Rates for South Basin

Storm Frequency (YR)	Pre-Developed On-Site Release Rate (CFS)	Offsite Bypass (CFS)	Allowable On-Site Release Rate (CFS)
1	13.81	0.51	14.32
2	20.60	0.82	14.63
5	30.41	1.26	15.07
10	38.47	1.63	15.44
25	49.83	2.16	15.97
50	58.82	2.58	61.40
100	67.96	3.01	70.97

Table 4: Post Developed Flows and Detention for South Basin

Storm Frequency (YR)	Post-Developed Release Rate (CFS)	Detention Elevation (FT)
1	1.68	705.25
2	3.70	705.61
5	6.95	706.08
10	8.91	706.46
25	11.20	707.00
50	21.64	707.26
100	34.41	707.46

Based on the calculated findings, the total post-development release rates are below the allowable release rate for the South Basin.

Critical Year Event Calculation – North Basin

The volume and flows that were obtained for the pre-developed and post developed 1-yr case were derived from the HydroCAD calculations for the detention model shown in Appendix C, and are shown in the following tables:

Table 4: Critical Storm 1-yr Events

NORTH BASIN PRE-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	6,733	2.65

NORTH BASIN POST-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	10,665	3.85

(10,665 – 6,733) / 6,733 = 0.584 = 58.4 % Increase in Volume therefore the Critical Year Storm is the 10-year frequency.

Water Quality Volume – North Basin

The required water quality volume (WQv) has been calculated per the OEPA equation in Appendix A. The required WQv = 2,650 Cubic Feet (CF). In lieu of a forebay and micropool, 20% extra volume was added to the water quality volume, making the WQv = 3,179 Cubic Feet (CF). In addition to the extra volume, we are providing a protected outlet of perforated PVC embedded in rock. This volume is handled with a 0.50” drilled orifice in the riser pipe of the outlet structure. The outlet structure detail and water quality drawdown calculations are also shown in Appendix A.

Overland Detention and Structure – North Basin

To ensure the post developed stormwater flows are kept under the allowable release rate of the new dry pond per the City of Monroe’s regulations, a control structure was designed to regulate the release. The outlet structure consists of the following: The outlet structure is a modified 2-5 catch basin with a 0.5” diameter water quality orifice with an invert elevation of 670.00’. For stormwater quantity management, the follwing orifices and windows are provided: a 15” diameter orifice with an invert elevation of 671.14’. The grate elevation of the outlet structure is 672.89’. The 24” culvert out is designed to convey flows from the 100-year event if necessary. The detention basin also has an emergency spillway with a width of 10’. The bottom of the spillway is at elevation 673.75’ with the top at elevation 674.25’. See Appendix A for outlet structure details and spillways details/calulcations.

Results Summary

The detention volume was checked by using HydroCAD calculations included in Appendix C of this report. A list of regulated rates and storage elevations of the detention facility are shown below.

Table 5: Predeveloped Flow Rates for North Basin

Storm Frequency (YR)	Pre-Developed On-Site Release Rate (CFS)	Offsite Bypass (CFS)	Allowable On-Site Release Rate (CFS)
1	2.65	0.94	3.59
2	3.75	1.35	4.00
5	5.29	1.93	4.58
10	6.54	2.40	5.05
25	8.26	3.04	11.30
50	9.60	3.55	13.15
100	10.96	4.07	15.03

Table 4: Post Developed Flows and Detention for North Basin

Storm Frequency (YR)	Post-Developed Release Rate (CFS)	Detention Elevation (FT)
1	1.72	671.73
2	2.63	671.90
5	3.77	672.09
10	4.61	672.23
25	5.58	672.42
50	6.17	672.57
100	6.75	672.72

Based on the calculated findings, the total post-development release rates are below the allowable release rate.

Storm Sewer Calculations

Results Summary

The City of Monroe requires storm pipes be designed with a 10-year storm capacity and a 25-year HGL. See Appendix D for site storm sewer calculations and area map.

Appendix A

Water Quality Calculations & Outlet Structure Detail

PROJECT	**Monroe HS - North Pond**		
JOB #	**010862.029**	**DESIGN**	**BMB**
DATE	**2/24/2026**	**CHECK**	**MAG**

WATER QUALITY VOLUME = INPUT FIELDS

Method 2

WQv= C * P * A / 12

C = 0.298161765

P = 0.9 IN

A = 2.72 ACRES *

WQv = 0.06 AC FT

RUNOFF COEFFICIENT

C = Rv = 0.05 + 0.9i

WHERE: i = IMPERVIOUS RATIO

IMPERVIOUS RATIO, i = IMPERVIOUS AREA / TOTAL AREA

IMPERVIOUS AREA =	0.75
TOTAL AREA =	2.72
i =	0.275735

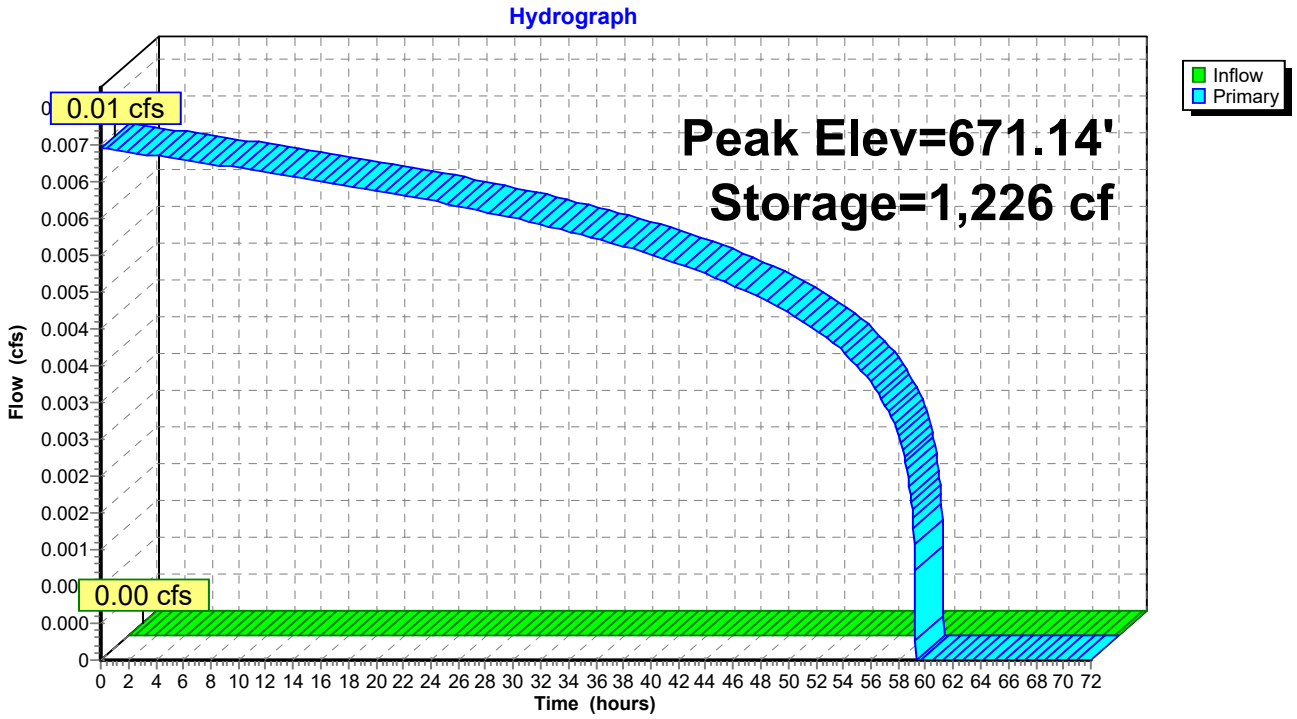
P = Precipitation Depth of 0.90- inches

***AREA TO INCLUDE OFFSITE DRAINAGE**

THEREFORE, WQv =		**0.06**	**AC FT**
	OR,	2649.537	CF

120% 3179.444

Pond 6P: Pond New Drive



Hydrograph for Pond 6P: Pond New Drive

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**1,226**	**671.14**	**0.01**
2.50	0.00	1,163	671.12	0.01
5.00	0.00	1,102	671.10	0.01
7.50	0.00	1,041	671.08	0.01
10.00	0.00	980	671.06	0.01
12.50	0.00	920	671.03	0.01
15.00	0.00	861	671.01	0.01
17.50	0.00	803	670.99	0.01
20.00	0.00	745	670.96	0.01
22.50	0.00	688	670.94	0.01
25.00	0.00	632	670.91	0.01
27.50	0.00	576	670.89	0.01
30.00	0.00	522	670.86	0.01
32.50	0.00	468	670.83	0.01
35.00	0.00	416	670.79	0.01
37.50	0.00	364	670.76	0.01
40.00	0.00	314	670.72	0.01
42.50	0.00	265	670.68	0.01
45.00	0.00	218	670.64	0.01
47.50	0.00	173	670.59	0.00
50.00	0.00	129	670.54	0.00
52.50	0.00	88	670.47	0.00
55.00	0.00	50	670.39	0.00
57.50	0.00	17	670.27	0.00
60.00	0.00	0	670.00	0.00
62.50	0.00	0	670.00	0.00
65.00	0.00	0	670.00	0.00
67.50	0.00	0	670.00	0.00
70.00	0.00	0	670.00	0.00

PROJECT	**Monroe HS - South Pond**		
JOB #	**010862.029**	**DESIGN**	**BMB**
DATE	**2/24/2026**	**CHECK**	**MAG**

WATER QUALITY VOLUME = INPUT FIELDS

Method 2

WQv= C * P * A / 12

C = 0.463359684
P = 0.9 IN
A = 37.95 ACRES *

WQv = 1.32 AC FT

RUNOFF COEFFICIENT
C = Rv = 0.05 + 0.9i
WHERE: i = IMPERVIOUS RATIO

IMPERVIOUS RATIO, i = IMPERVIOUS AREA / TOTAL AREA

IMPERVIOUS AREA =	17.43
TOTAL AREA =	37.95
i =	0.459289

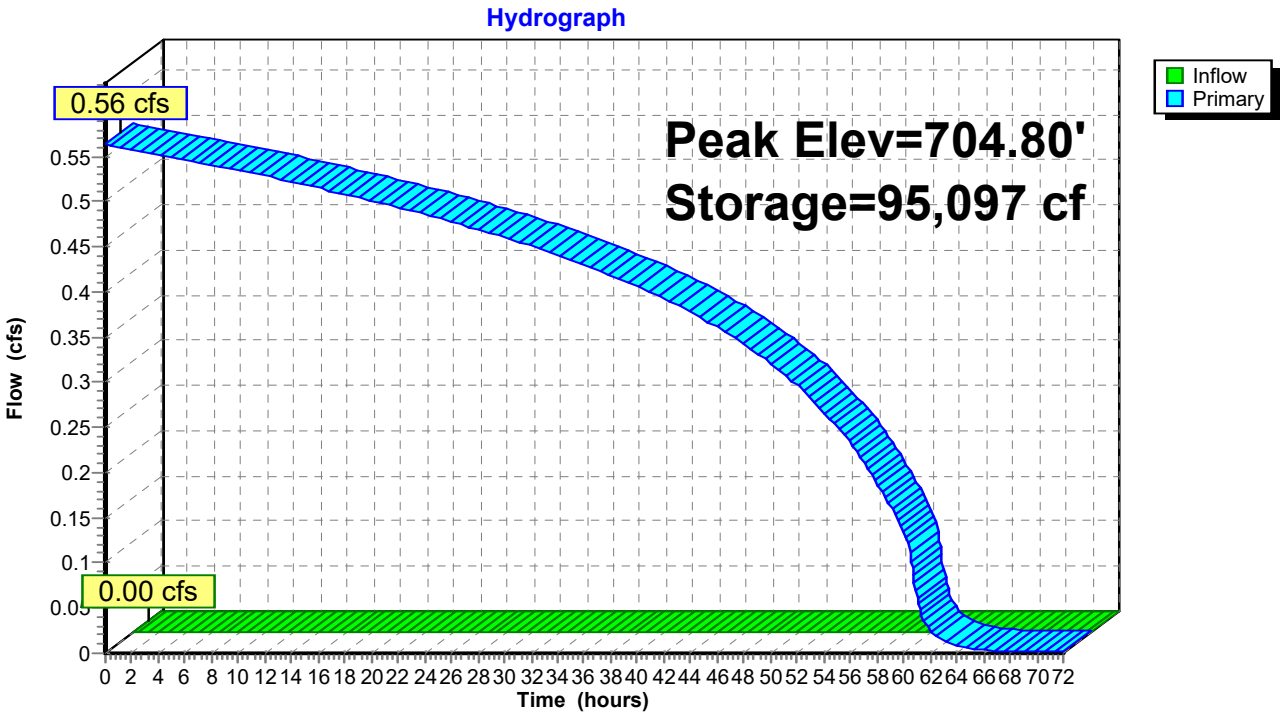
P = Precipitation Depth of 0.90- inches

***AREA TO INCLUDE OFFSITE DRAINAGE**

THEREFORE, WQv =		**1.32**	**AC FT**
	OR,	57448.56	CF

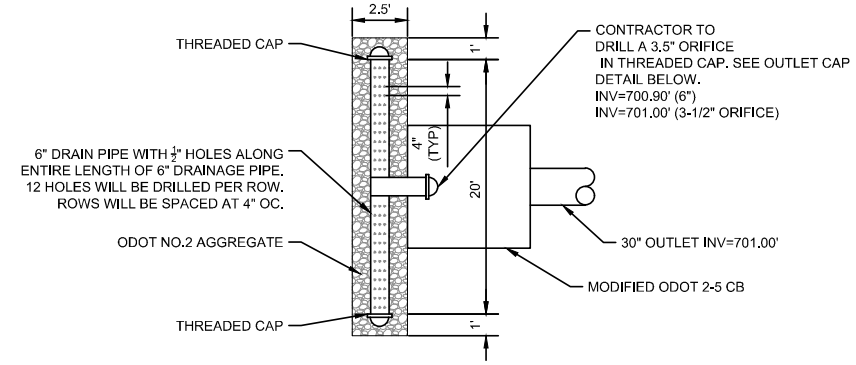
120% 68938.27

Pond 5P: Pond High School

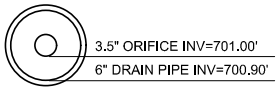


Hydrograph for Pond 5P: Pond High School

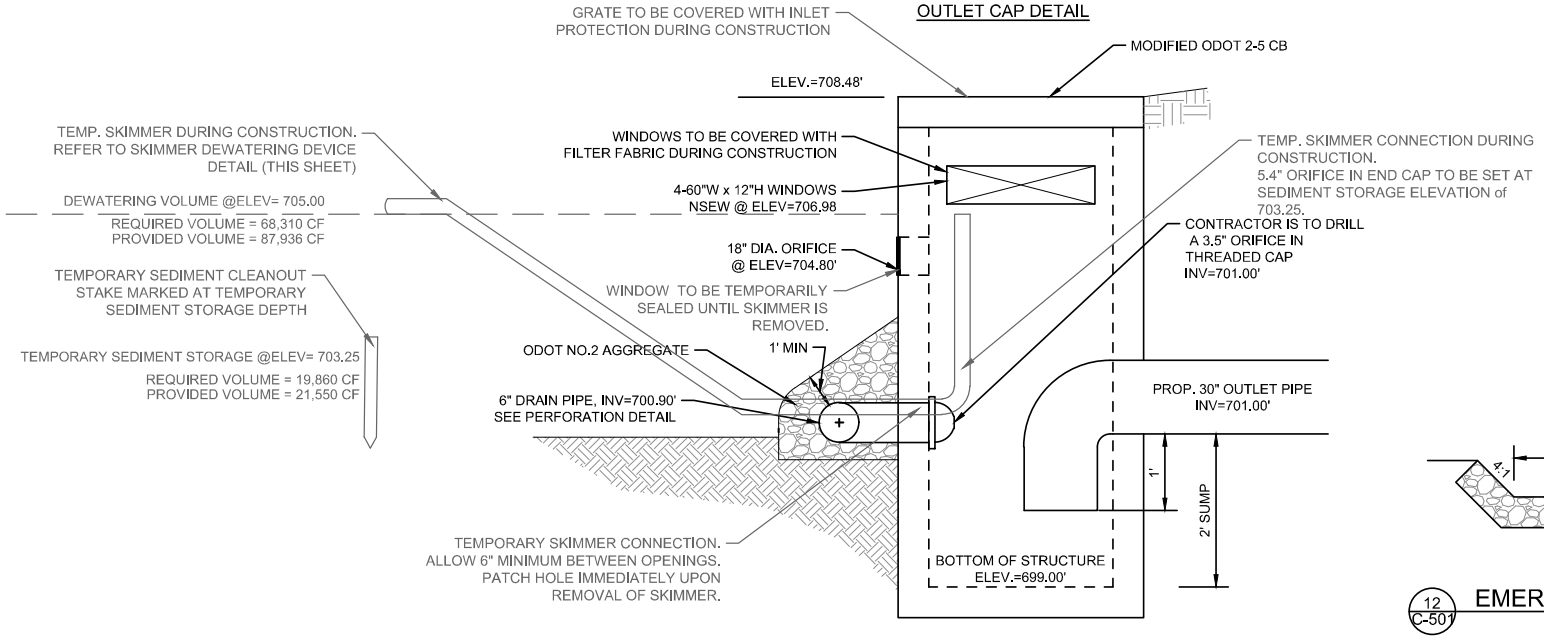
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**95,097**	**704.80**	**0.56**
2.50	0.00	90,055	704.73	0.56
5.00	0.00	85,075	704.65	0.55
7.50	0.00	80,160	704.57	0.54
10.00	0.00	75,313	704.49	0.53
12.50	0.00	70,536	704.41	0.53
15.00	0.00	65,831	704.33	0.52
17.50	0.00	61,201	704.24	0.51
20.00	0.00	56,650	704.16	0.50
22.50	0.00	52,180	704.07	0.49
25.00	0.00	47,797	703.98	0.48
27.50	0.00	43,504	703.88	0.47
30.00	0.00	39,307	703.78	0.46
32.50	0.00	35,213	703.68	0.45
35.00	0.00	31,231	703.57	0.44
37.50	0.00	27,370	703.45	0.42
40.00	0.00	23,642	703.33	0.41
42.50	0.00	20,060	703.19	0.39
45.00	0.00	16,645	703.05	0.37
47.50	0.00	13,418	702.89	0.35
50.00	0.00	10,409	702.72	0.32
52.50	0.00	7,657	702.54	0.29
55.00	0.00	5,215	702.34	0.25
57.50	0.00	3,166	702.12	0.20
60.00	0.00	1,642	701.90	0.13
62.50	0.00	1,080	701.78	0.02
65.00	0.00	990	701.76	0.01
67.50	0.00	956	701.75	0.00
70.00	0.00	938	701.75	0.00



PERFORATION DETAIL

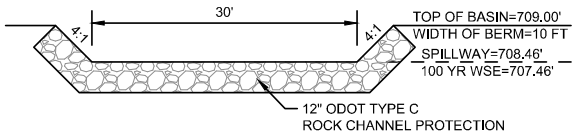


OUTLET CAP DETAIL



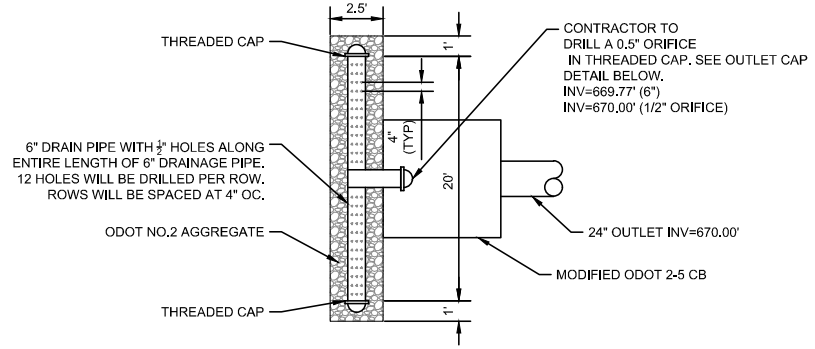
11 C-501 DETENTION OUTFALL STRUCTURE - SOUTH BASIN

N.T.S.

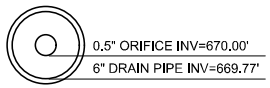


12 C-501 EMERGENCY SPILLWAY DETAIL

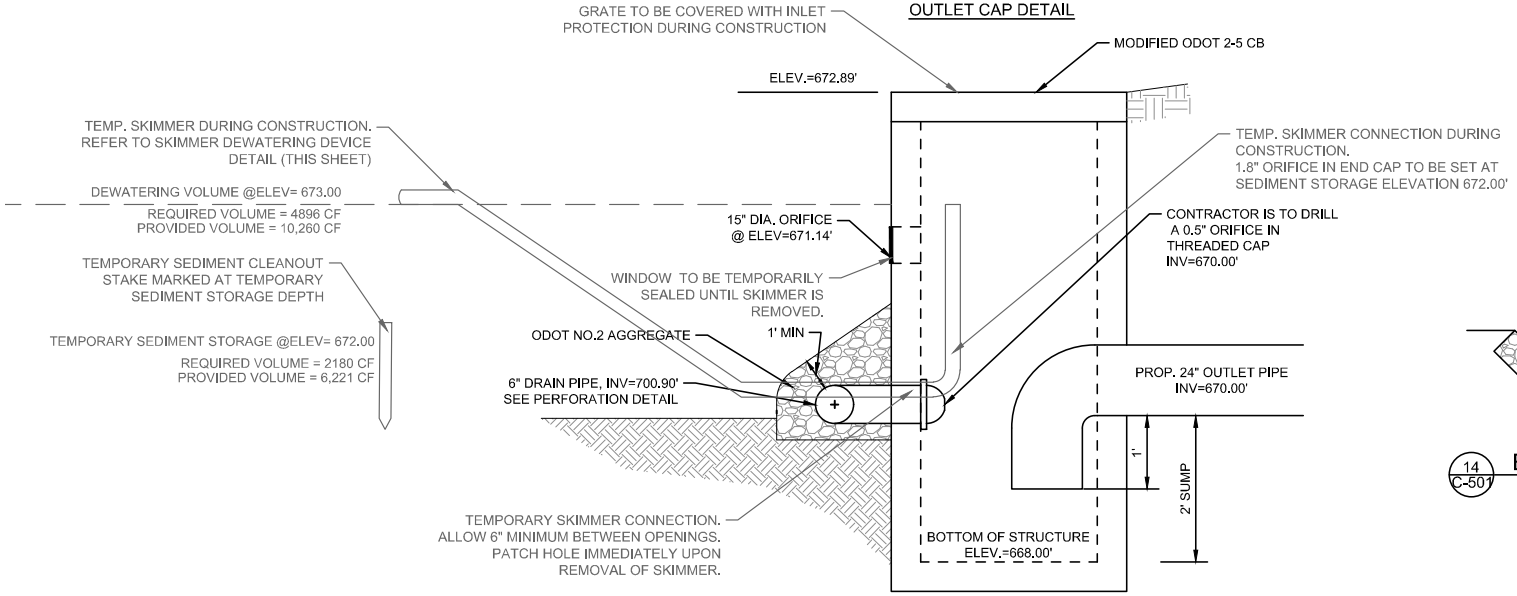
N.T.S.



PERFORATION DETAIL

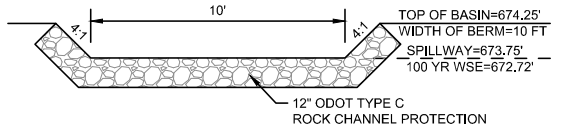


OUTLET CAP DETAIL



13 C-501 DETENTION OUTFALL STRUCTURE - NORTH BASIN

N.T.S.



14 C-501 EMERGENCY SPILLWAY DETAIL

N.T.S.

2026-02-26 Spillway Weir Calc - South Pond

Weirs

CIVIL TOOLS PRO
English Units
02-26-2026 16:23:14

Results

Flow (cfs)	Length (ft)	Weir Coefficient	Head (ft)
36.90	30.00	3.100	0.54

2026-02-26 Spillway Weir Calc - North Pond

Weirs

CIVIL TOOLS PRO
English Units
02-26-2026 16:24:04

Results

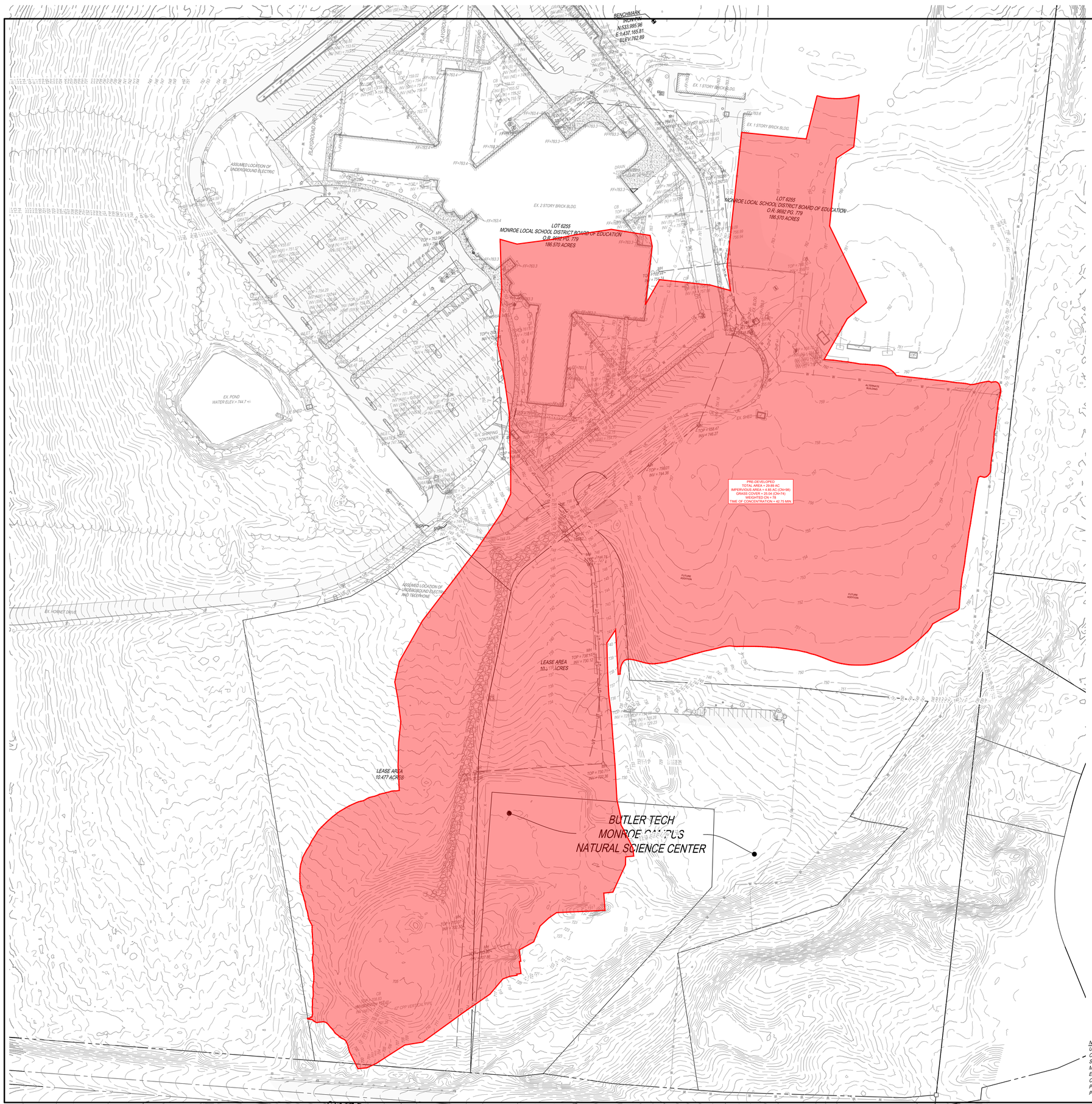
Flow (cfs)	Length (ft)	Weir Coefficient	Head (ft)
10.96	10.00	3.100	0.50

Appendix B

Drainage Maps

- Pre-Developed Map

- Post-Developed Map



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING | 6219 Centre Park Dr, West Chester, OH 45069
LANDSCAPE ARCHITECTURE | 513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

PRE-DEVELOPED DRAINAGE MAP - HIGH SCHOOL

1 OF 2

I:\Engineering\2021-2030\2106\2106220\01_DWGS_Sheets\01DWG\CDR\2106220.dwg, 2/27/2026 1:27:29 PM, tbouchar

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

OFFSITE BY-PASS
TOTAL AREA = 0.73 AC
OPEN SPACE = 0.73 AC (CN=74)
WEIGHTED CN = 74
TIME OF CONCENTRATION = 10 MIN.

POST-DEVELOPED CAPTURED
TOTAL AREA = 37.22 AC
IMPERVIOUS AREA = 17.43 AC (CN=98)
OPEN SPACE = 19.79 AC (CN=80)
WEIGHTED CN = 88
TIME OF CONCENTRATION = 30.7 MIN.

POST-DEVELOPED UNCAPTURED
TOTAL AREA = 0.37 AC
IMPERVIOUS AREA = 0.09 AC (CN=98)
OPEN SPACE = 0.28 AC (CN=80)
WEIGHTED CN = 84
TIME OF CONCENTRATION = 10 MIN.

BUTLER TECH
MONROE CAMPUS
NATURAL SCIENCE CENTER

STATE ROUTE 63 (R/W VARIES)

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

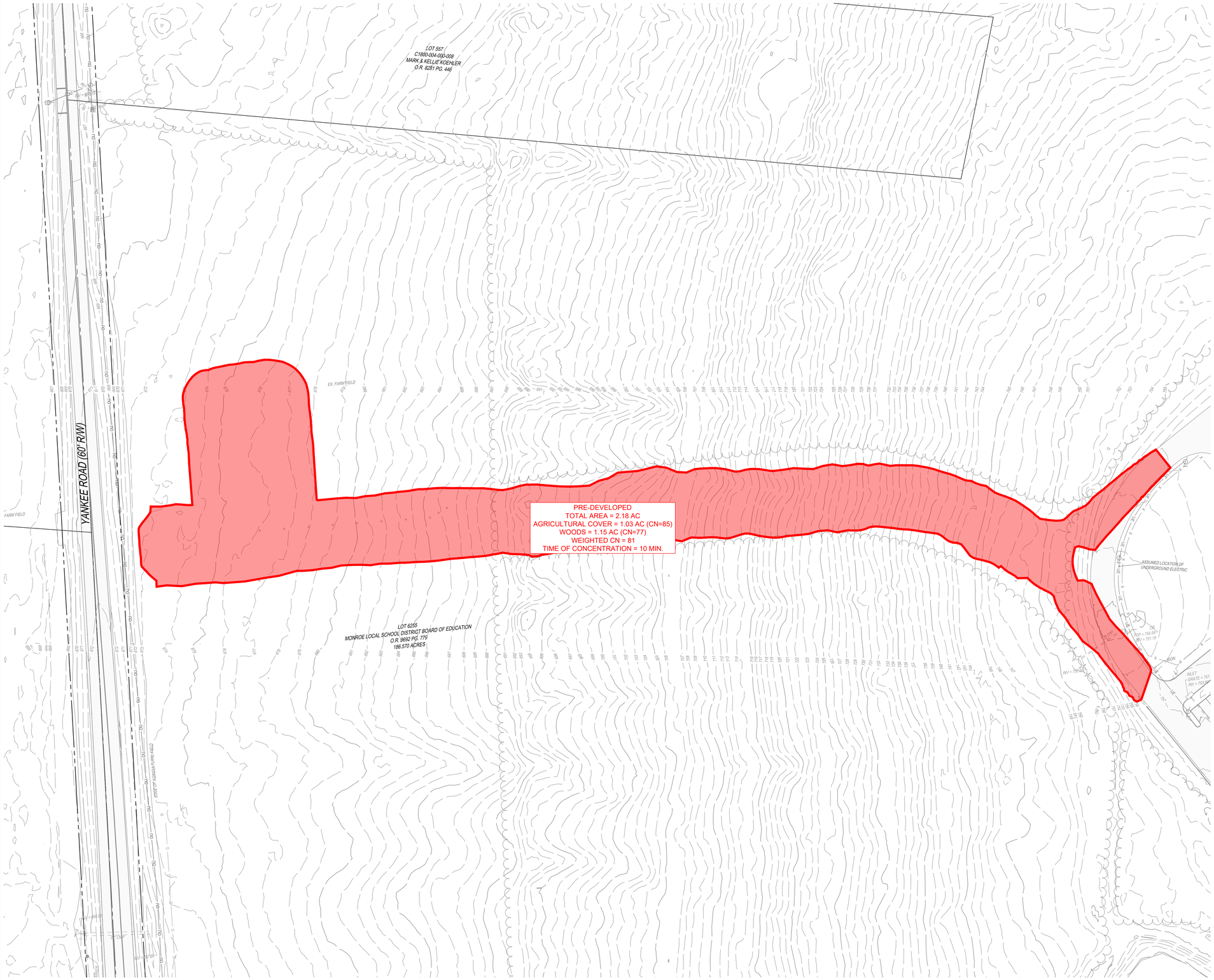
OHIO811.org Before You Dig

POST-DEVELOPED DRAINAGE MAP - HIGH SCHOOL

2 OF 2

H:\Engineering\2021_2021\P101886\2025_CIVIL_Sheets\101886CDMAP25.dwg, 2/27/2026 1:37:35 PM, bbouchar

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

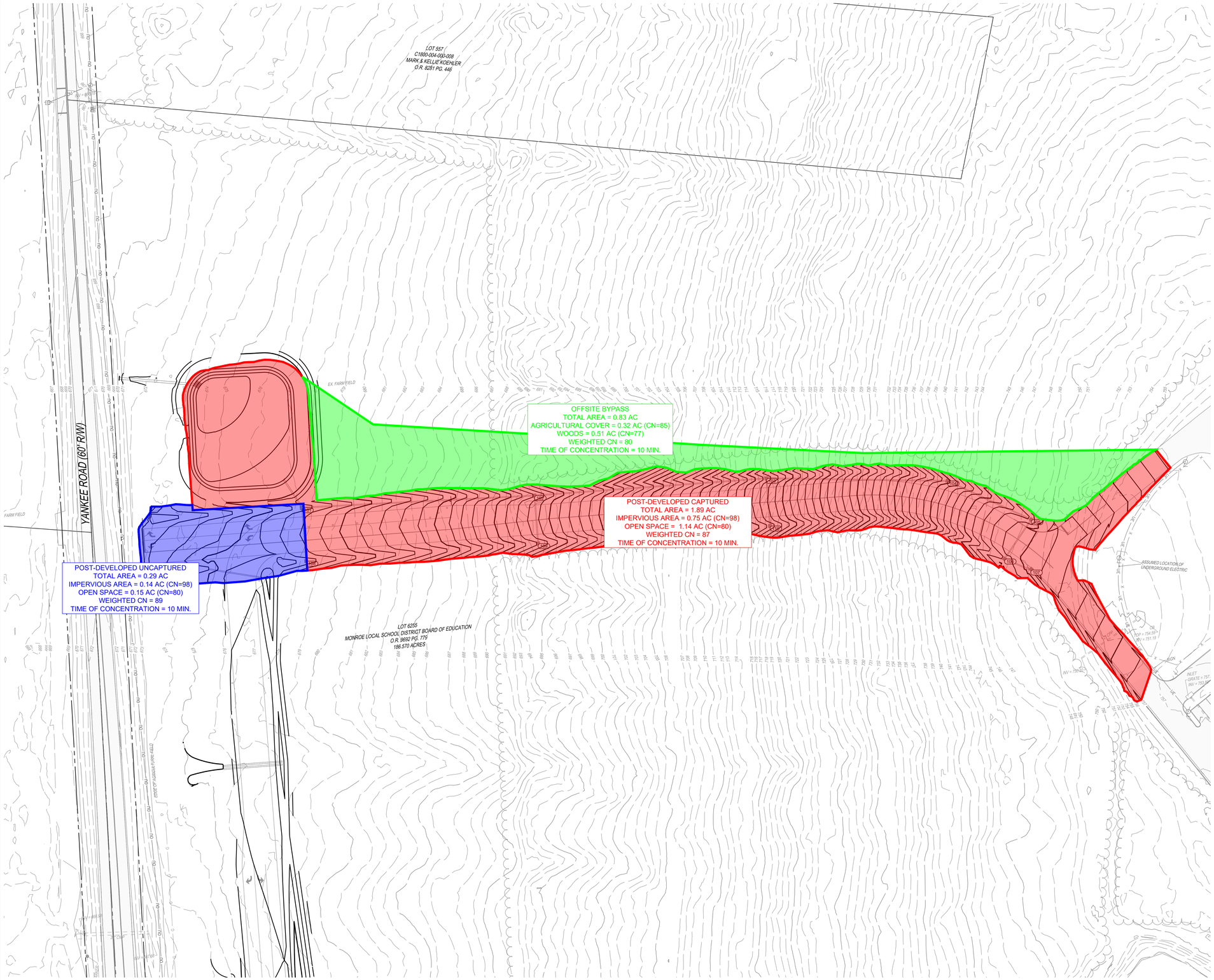
REV NO △	DESCRIPTION	DATE

PRE-DEVELOPED DRAINAGE MAP - ENTRY DRIVE

1 OF 2

H:\Engineering\2021-2030\P-I\101882\02\01_DWG_Sheets\101882SDMAP2.dwg, 2/27/2026 1:27:45 PM, bbuchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

POST-DEVELOPED DRAINAGE MAP - ENTRY DRIVE

2 OF 2

H:\Engineering\2021-2030\P101862\ADP_Civil\C_Sheets\101862ADP2.dwg, 2/27/2026 1:27:09 PM, bboucher

Appendix C

HydroCAD Calculations

TABLE OF CONTENTS

Project Reports
1 Routing Diagram
2 Rainfall Events Listing

1-Year Event
3 Subcat 1S: Post High School
5 Subcat 2S: Post High School (North Route)
7 Link 3L: (new Link)
8 Subcat 3S: Post New Drive
9 Link 4L: (new Link)
10 Subcat 4S: Pre New Drive
11 Pond 5P: Pond High School
15 Subcat 5S: Pre High School
17 Pond 6P: Pond New Drive
21 Subcat 6S: Offsite Bypass High School
22 Subcat 7S: Offsite Bypass New Drive
23 Subcat 8S: Uncaptured High School
24 Subcat 9S: Uncaptured New Drive
25 Subcat 10S: Pre High School
26 Pond 11P: Pond New Drive
30 Pond 12P: Pond High School
34 Pond 13P: Pond High School

2-Year Event
38 Subcat 1S: Post High School
40 Subcat 2S: Post High School (North Route)
42 Link 3L: (new Link)
43 Subcat 3S: Post New Drive
44 Link 4L: (new Link)
45 Subcat 4S: Pre New Drive
46 Pond 5P: Pond High School
50 Subcat 5S: Pre High School
52 Pond 6P: Pond New Drive
56 Subcat 6S: Offsite Bypass High School
57 Subcat 7S: Offsite Bypass New Drive
58 Subcat 8S: Uncaptured High School
59 Subcat 9S: Uncaptured New Drive
60 Subcat 10S: Pre High School
61 Pond 11P: Pond New Drive
65 Pond 12P: Pond High School
69 Pond 13P: Pond High School

5-Year Event
73 Subcat 1S: Post High School
75 Subcat 2S: Post High School (North Route)
77 Link 3L: (new Link)
78 Subcat 3S: Post New Drive
79 Link 4L: (new Link)
80 Subcat 4S: Pre New Drive
81 Pond 5P: Pond High School

85 Subcat 5S: Pre High School
87 Pond 6P: Pond New Drive
91 Subcat 6S: Offsite Bypass High School
92 Subcat 7S: Offsite Bypass New Drive
93 Subcat 8S: Uncaptured High School
94 Subcat 9S: Uncaptured New Drive
95 Subcat 10S: Pre High School
96 Pond 11P: Pond New Drive
100 Pond 12P: Pond High School
104 Pond 13P: Pond High School

10-Year Event
108 Subcat 1S: Post High School
110 Subcat 2S: Post High School (North Route)
112 Link 3L: (new Link)
113 Subcat 3S: Post New Drive
114 Link 4L: (new Link)
115 Subcat 4S: Pre New Drive
116 Pond 5P: Pond High School
120 Subcat 5S: Pre High School
122 Pond 6P: Pond New Drive
126 Subcat 6S: Offsite Bypass High School
127 Subcat 7S: Offsite Bypass New Drive
128 Subcat 8S: Uncaptured High School
129 Subcat 9S: Uncaptured New Drive
130 Subcat 10S: Pre High School
131 Pond 11P: Pond New Drive
135 Pond 12P: Pond High School
139 Pond 13P: Pond High School

25-Year Event
143 Subcat 1S: Post High School
145 Subcat 2S: Post High School (North Route)
147 Link 3L: (new Link)
148 Subcat 3S: Post New Drive
149 Link 4L: (new Link)
150 Subcat 4S: Pre New Drive
151 Pond 5P: Pond High School
155 Subcat 5S: Pre High School
157 Pond 6P: Pond New Drive
161 Subcat 6S: Offsite Bypass High School
162 Subcat 7S: Offsite Bypass New Drive
163 Subcat 8S: Uncaptured High School
164 Subcat 9S: Uncaptured New Drive
165 Subcat 10S: Pre High School
166 Pond 11P: Pond New Drive
170 Pond 12P: Pond High School
174 Pond 13P: Pond High School

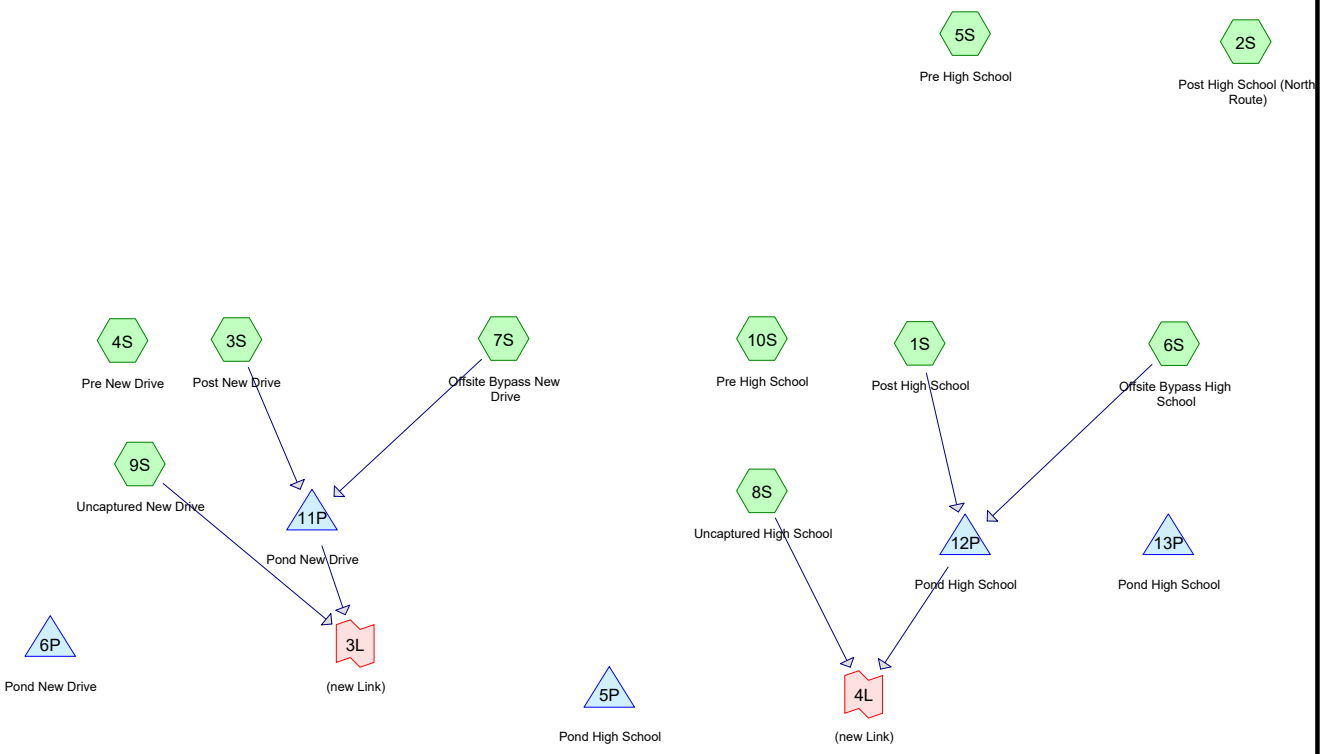
50-Year Event
178 Subcat 1S: Post High School
180 Subcat 2S: Post High School (North Route)

182 Link 3L: (new Link)
183 Subcat 3S: Post New Drive
184 Link 4L: (new Link)
185 Subcat 4S: Pre New Drive
186 Pond 5P: Pond High School
190 Subcat 5S: Pre High School
192 Pond 6P: Pond New Drive
196 Subcat 6S: Offsite Bypass High School
197 Subcat 7S: Offsite Bypass New Drive
198 Subcat 8S: Uncaptured High School
199 Subcat 9S: Uncaptured New Drive
200 Subcat 10S: Pre High School
201 Pond 11P: Pond New Drive
205 Pond 12P: Pond High School
209 Pond 13P: Pond High School

100-Year Event
213 Subcat 1S: Post High School
215 Subcat 2S: Post High School (North Route)
217 Link 3L: (new Link)
218 Subcat 3S: Post New Drive
219 Link 4L: (new Link)
220 Subcat 4S: Pre New Drive
221 Pond 5P: Pond High School
225 Subcat 5S: Pre High School
227 Pond 6P: Pond New Drive
231 Subcat 6S: Offsite Bypass High School
232 Subcat 7S: Offsite Bypass New Drive
233 Subcat 8S: Uncaptured High School
234 Subcat 9S: Uncaptured New Drive
235 Subcat 10S: Pre High School
236 Pond 11P: Pond New Drive
240 Pond 12P: Pond High School
244 Pond 13P: Pond High School

Multi-Event Tables
248 Subcat 1S: Post High School
249 Subcat 2S: Post High School (North Route)
250 Link 3L: (new Link)
251 Subcat 3S: Post New Drive
252 Link 4L: (new Link)
253 Subcat 4S: Pre New Drive
254 Pond 5P: Pond High School
255 Subcat 5S: Pre High School
256 Pond 6P: Pond New Drive
257 Subcat 6S: Offsite Bypass High School
258 Subcat 7S: Offsite Bypass New Drive
259 Subcat 8S: Uncaptured High School
260 Subcat 9S: Uncaptured New Drive
261 Subcat 10S: Pre High School
262 Pond 11P: Pond New Drive
263 Pond 12P: Pond High School

264 Pond 13P: Pond High School



Subcat Reach Pond Link

Routing Diagram for 010862DET029
Prepared by The Kleingers Group Inc, Printed 2/26/2026
HydroCAD® 10.20-7a s/n 12654 © 2025 HydroCAD Software Solutions LLC

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	NOAA 24-hr	A	Default	24.00	1	2.37	2
2	2-Year	NOAA 24-hr	A	Default	24.00	1	2.84	2
3	5-Year	NOAA 24-hr	A	Default	24.00	1	3.46	2
4	10-Year	NOAA 24-hr	A	Default	24.00	1	3.94	2
5	25-Year	NOAA 24-hr	A	Default	24.00	1	4.59	2
6	50-Year	NOAA 24-hr	A	Default	24.00	1	5.09	2
7	100-Year	NOAA 24-hr	A	Default	24.00	1	5.59	2

Summary for Subcatchment 1S: Post High School

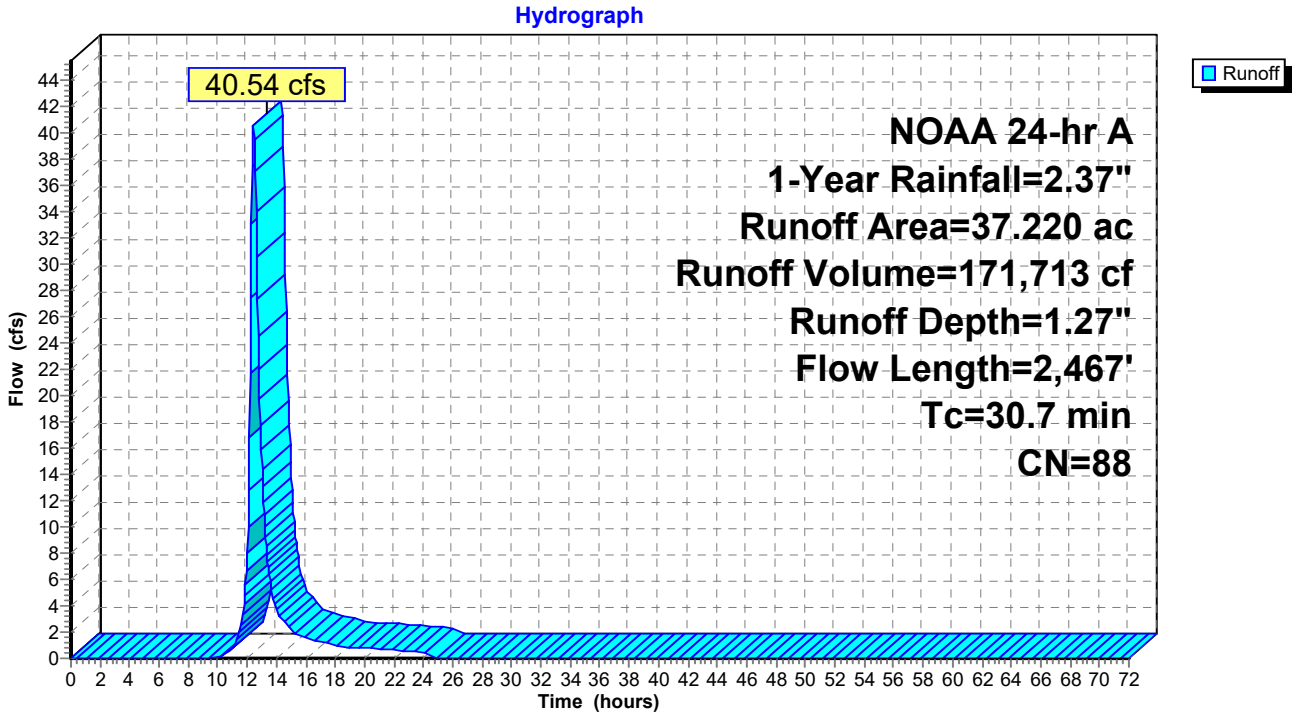
Runoff = 40.54 cfs @ 12.44 hrs, Volume= 171,713 cf, Depth= 1.27"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



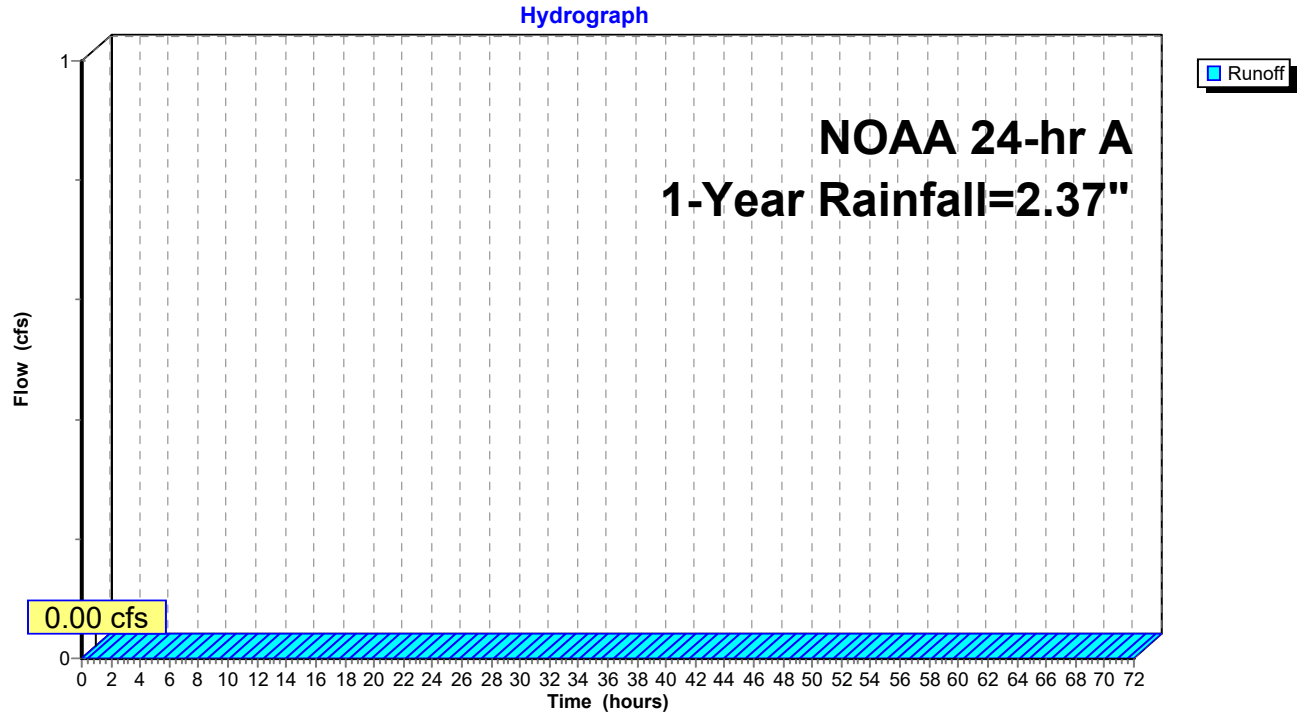
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

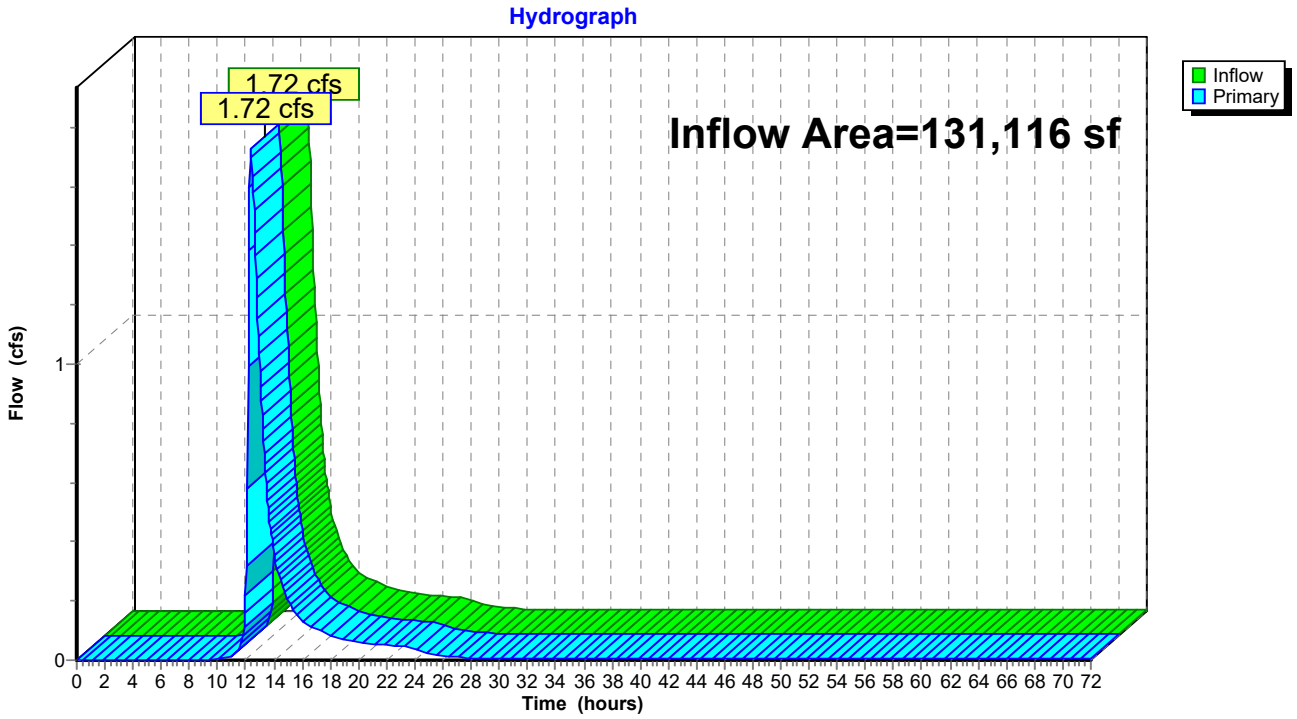


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.08" for 1-Year event
Inflow = 1.72 cfs @ 12.36 hrs, Volume= 11,810 cf
Primary = 1.72 cfs @ 12.36 hrs, Volume= 11,810 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

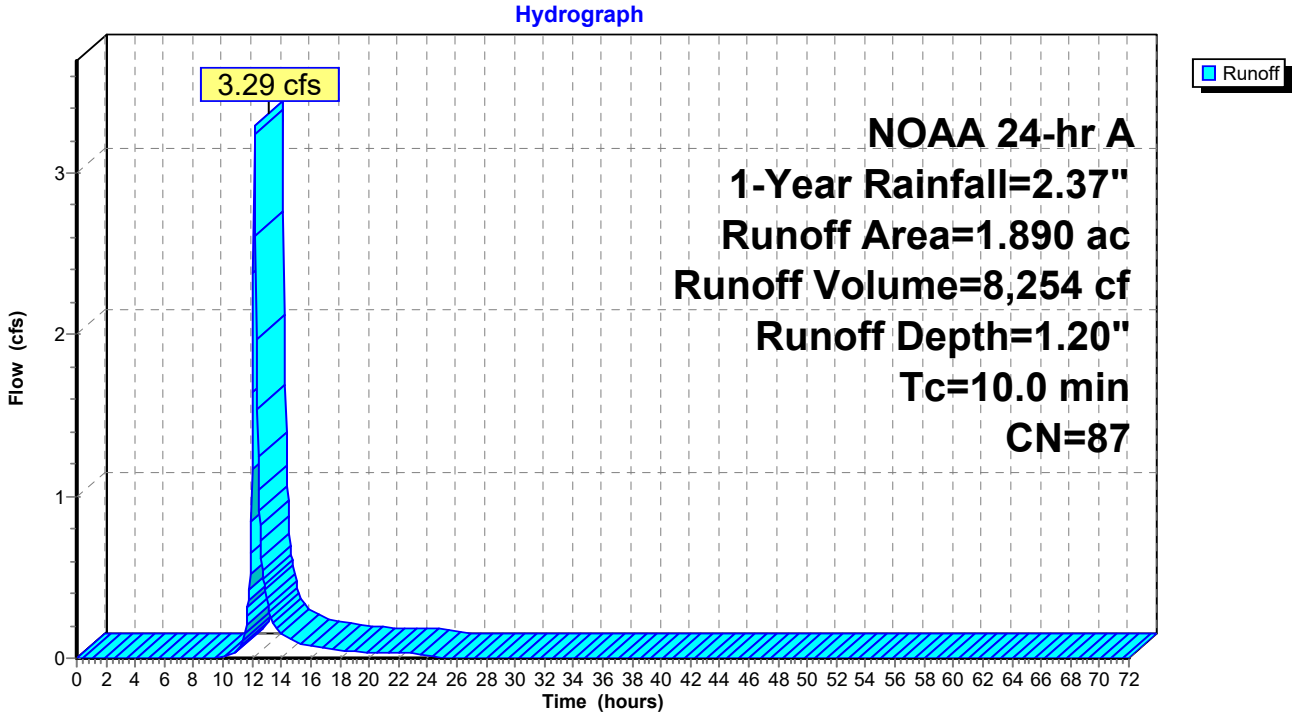
Runoff = 3.29 cfs @ 12.18 hrs, Volume= 8,254 cf, Depth= 1.20"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

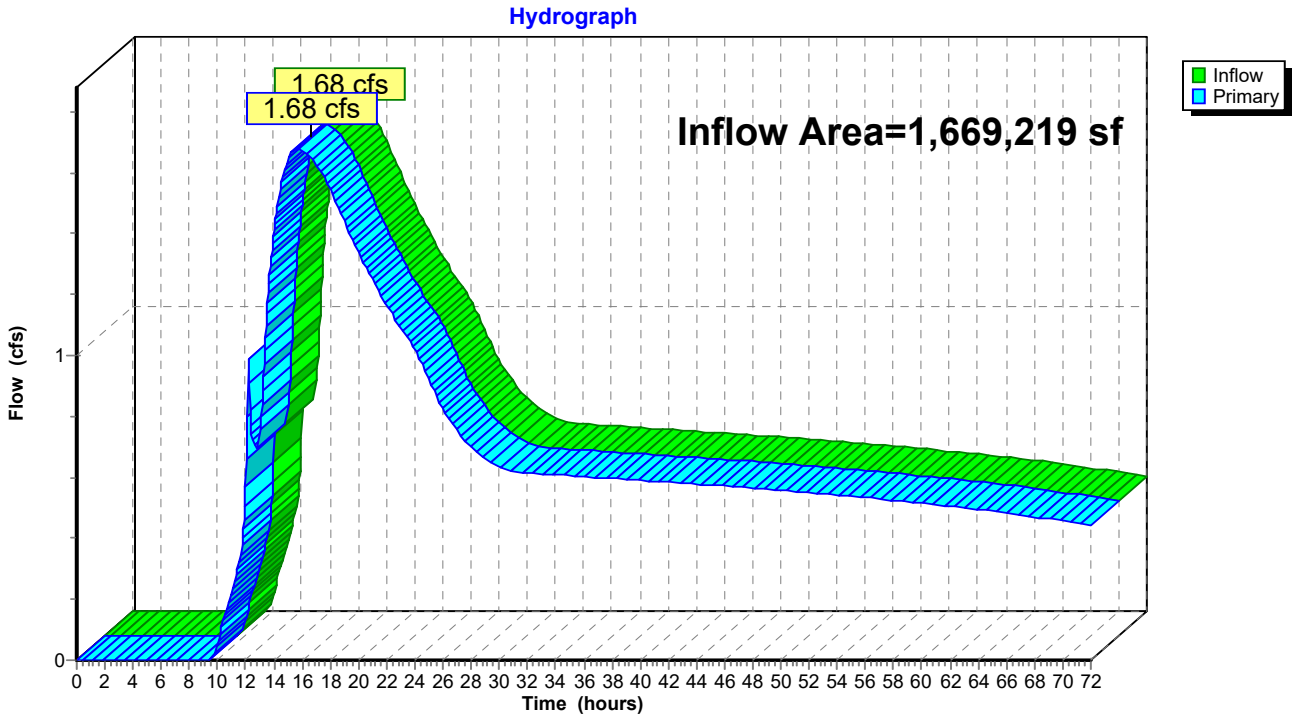


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 1.14" for 1-Year event
Inflow = 1.68 cfs @ 15.66 hrs, Volume= 158,555 cf
Primary = 1.68 cfs @ 15.66 hrs, Volume= 158,555 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

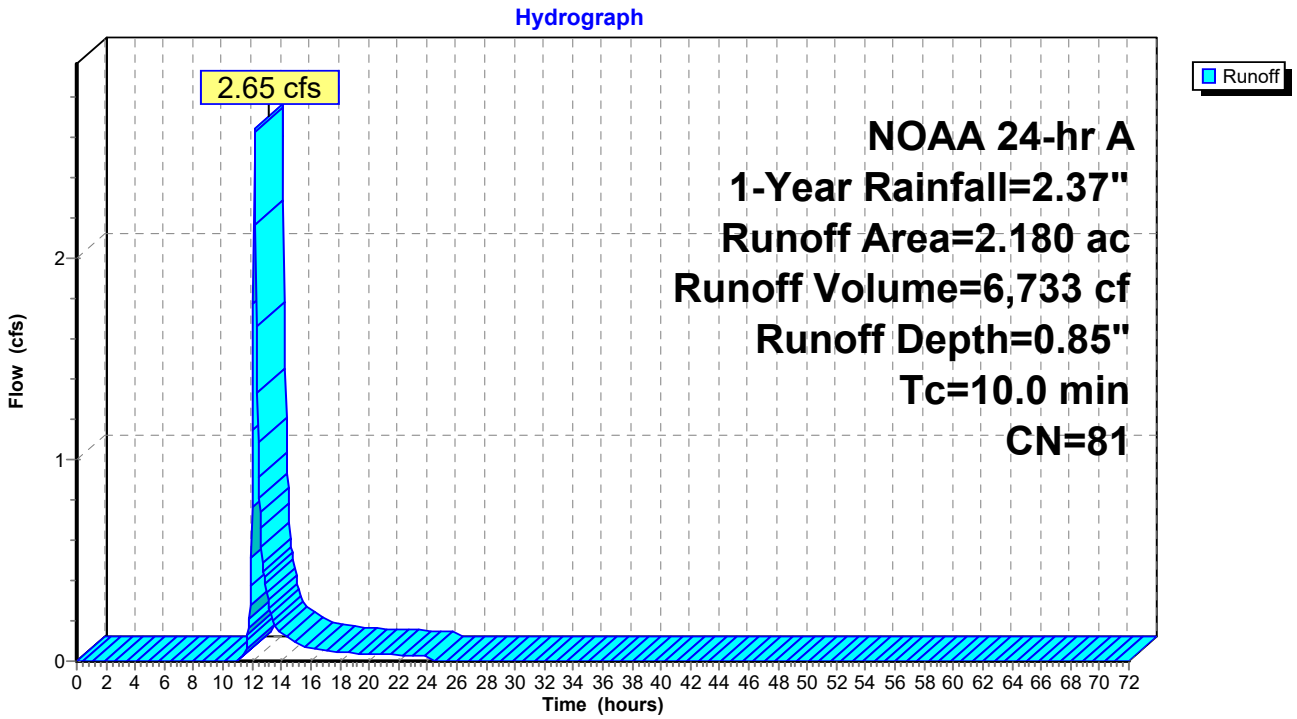
Runoff = 2.65 cfs @ 12.19 hrs, Volume= 6,733 cf, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

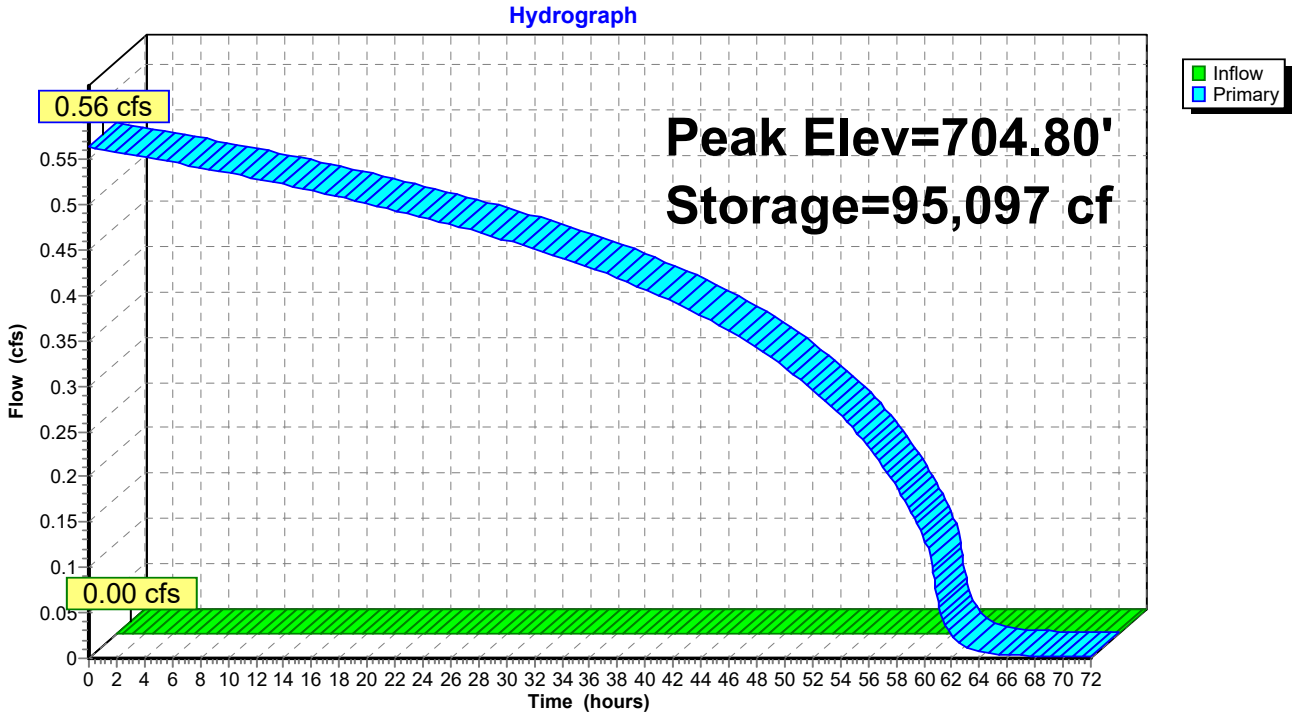
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

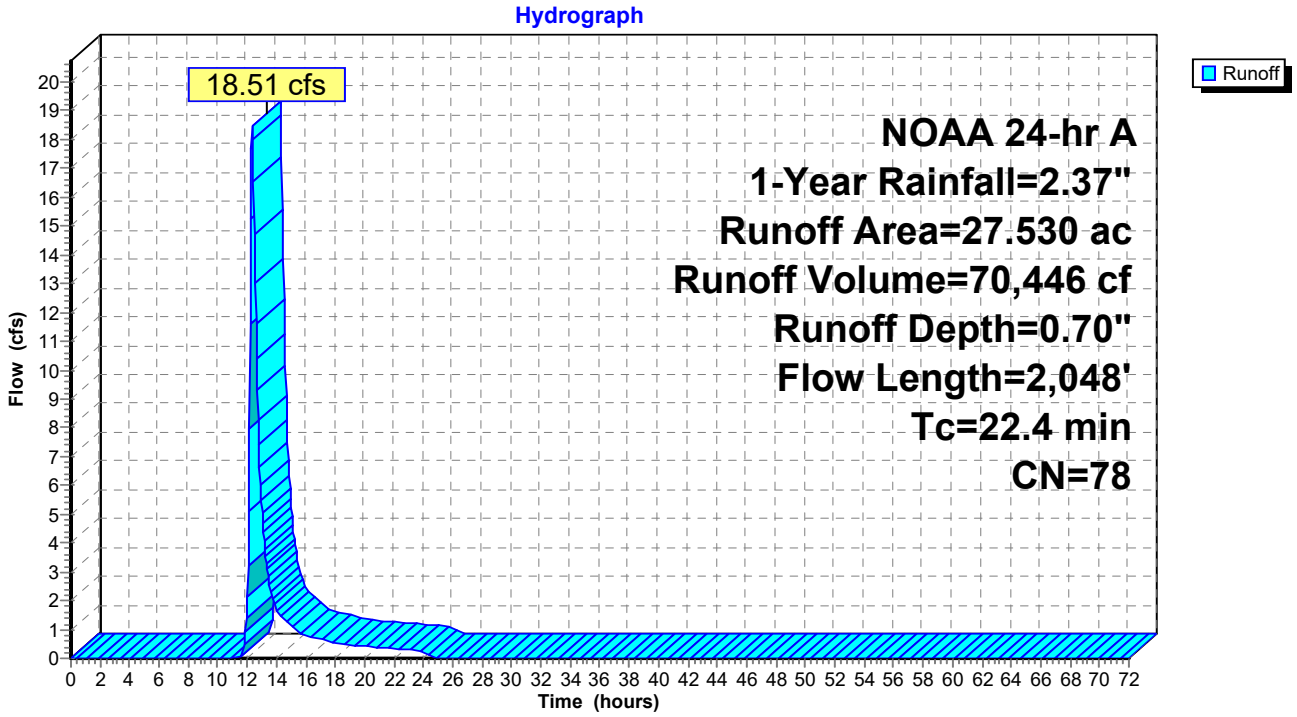
Runoff = 18.51 cfs @ 12.36 hrs, Volume= 70,446 cf, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

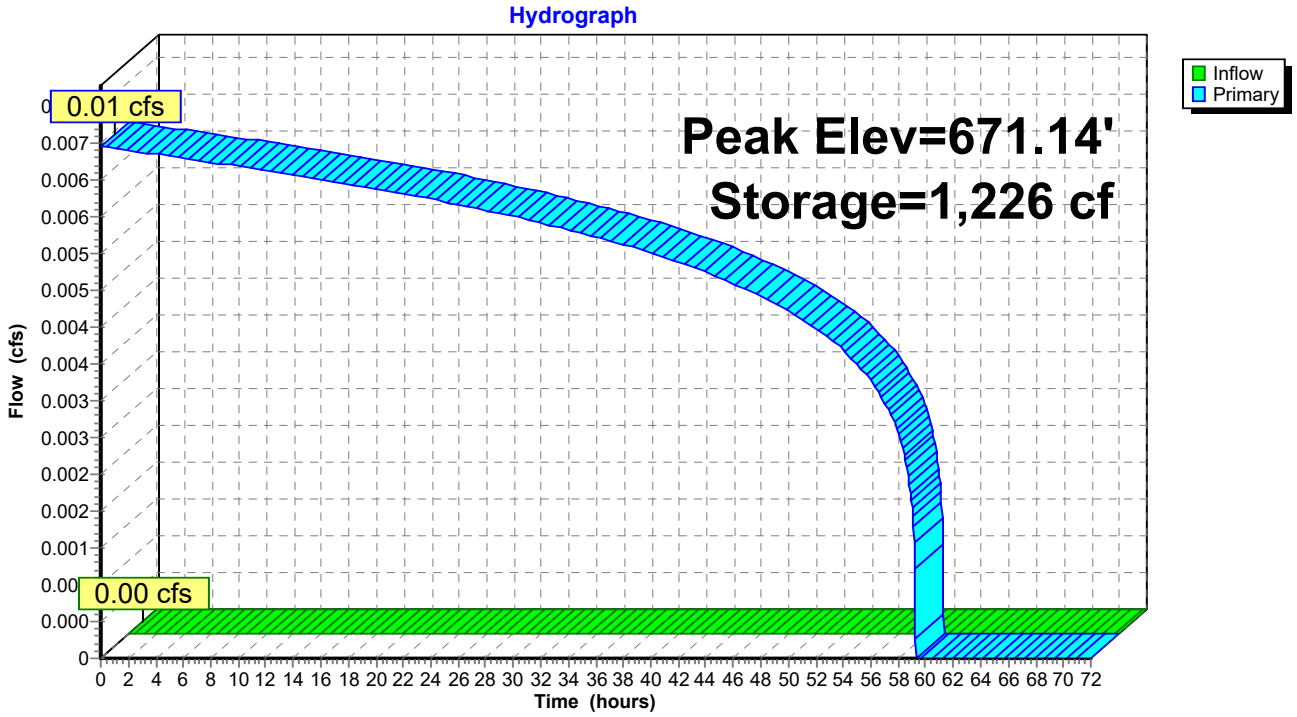
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

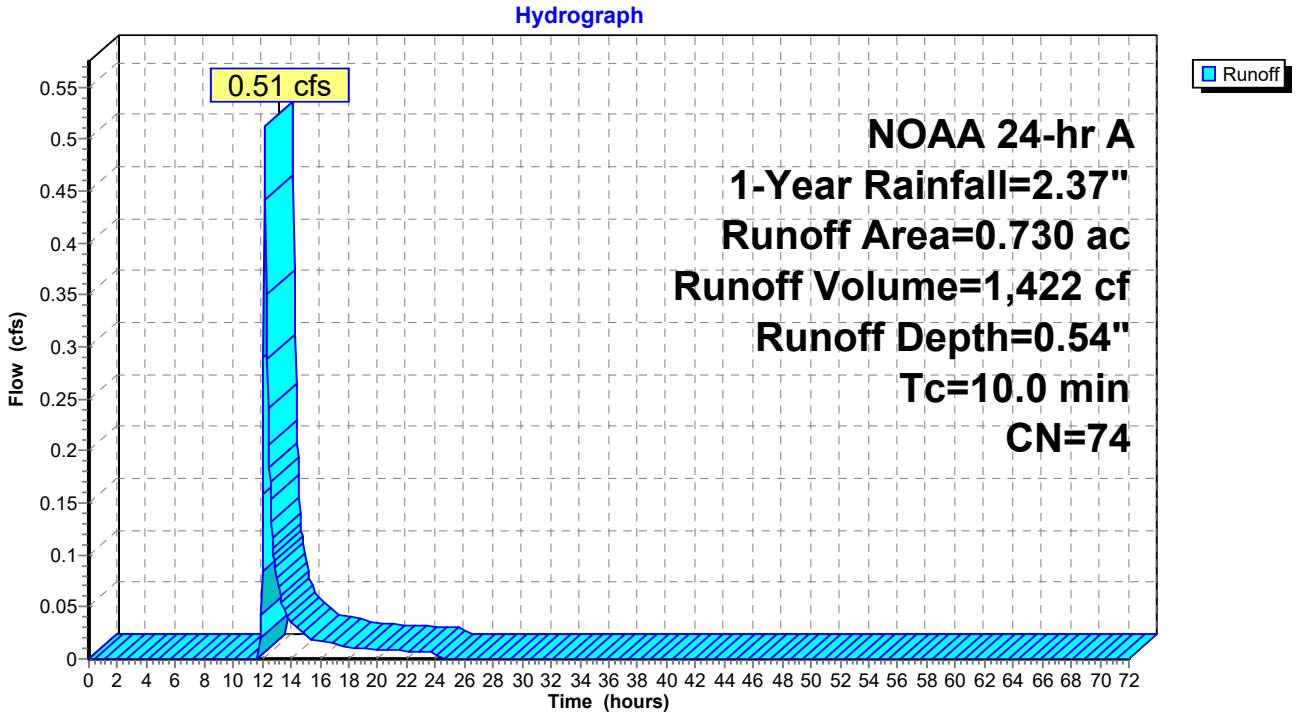
Runoff = 0.51 cfs @ 12.20 hrs, Volume= 1,422 cf, Depth= 0.54"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

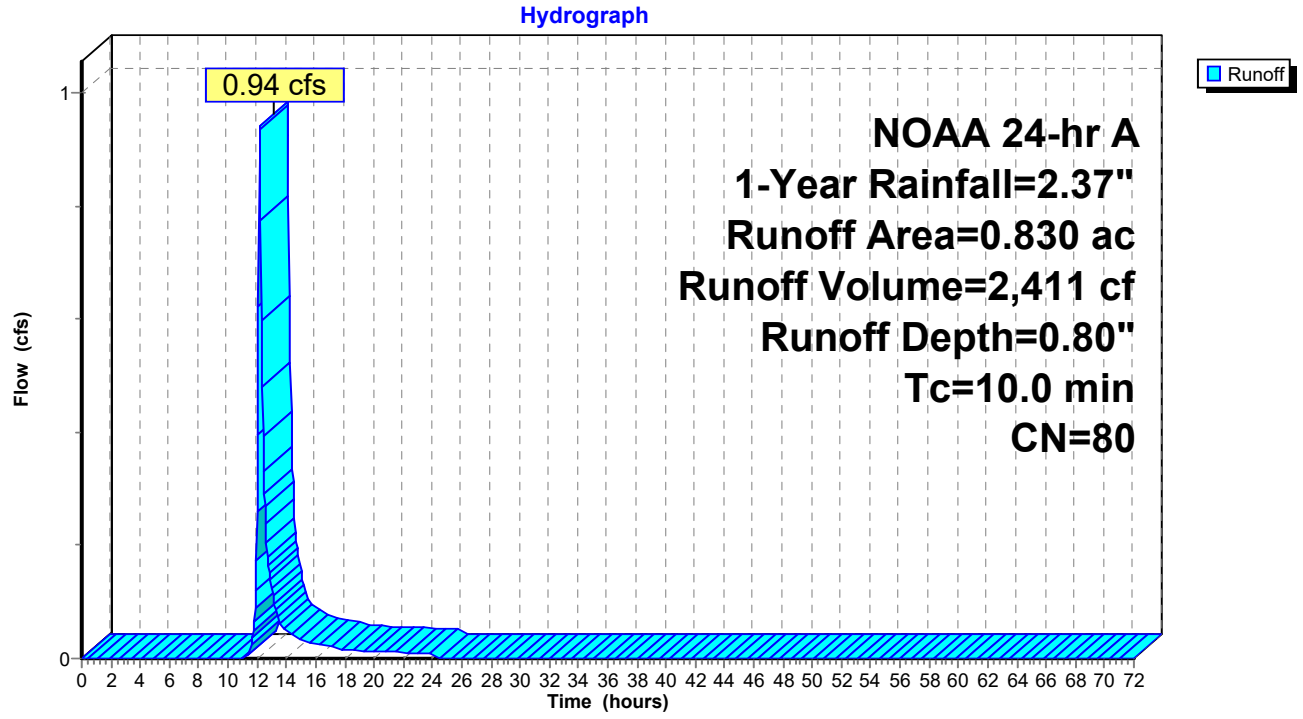
Runoff = 0.94 cfs @ 12.19 hrs, Volume= 2,411 cf, Depth= 0.80"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

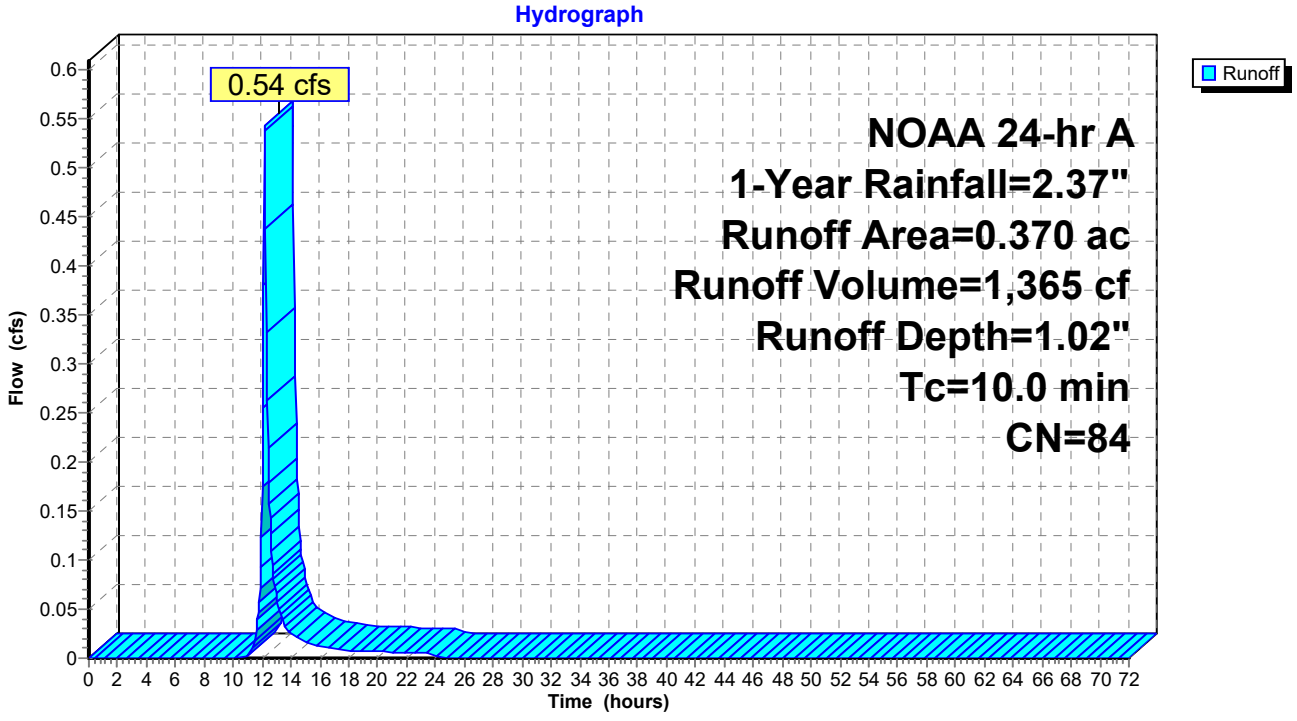
Runoff = 0.54 cfs @ 12.18 hrs, Volume= 1,365 cf, Depth= 1.02"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

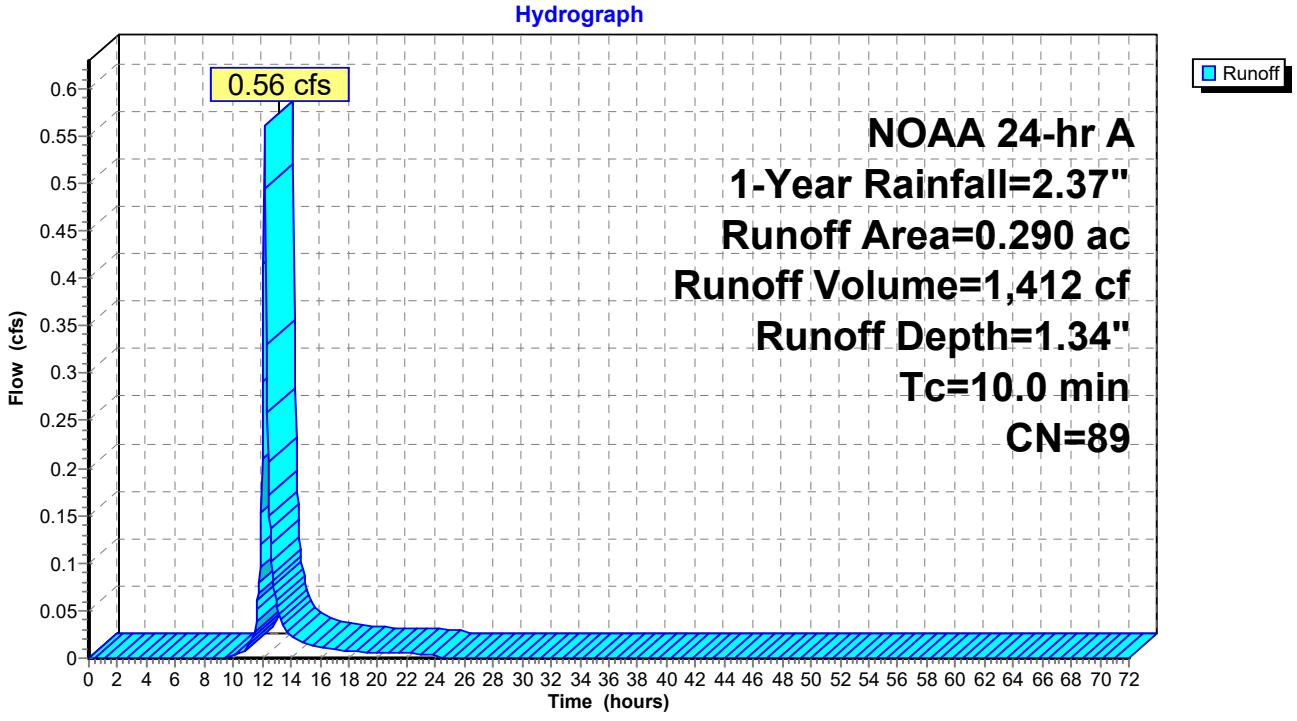
Runoff = 0.56 cfs @ 12.18 hrs, Volume= 1,412 cf, Depth= 1.34"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

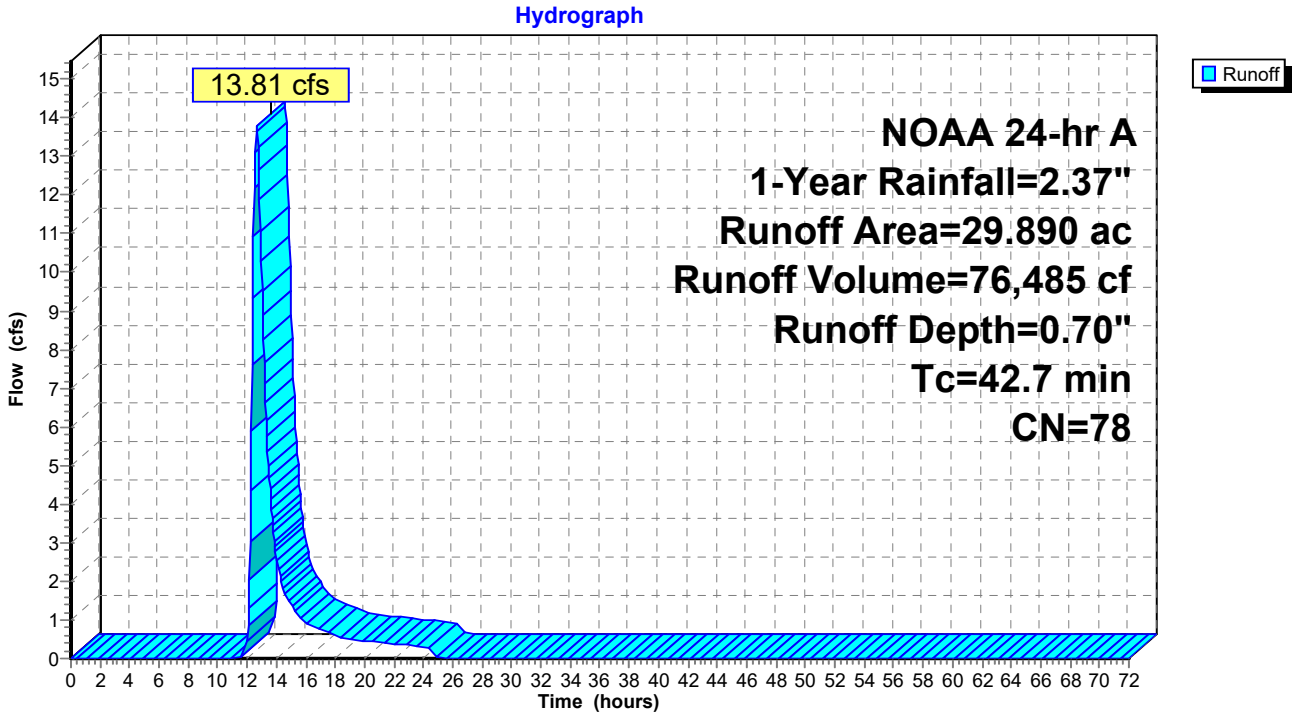
Runoff = 13.81 cfs @ 12.65 hrs, Volume= 76,485 cf, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.08" for 1-Year event
Inflow = 4.23 cfs @ 12.18 hrs, Volume= 10,665 cf
Outflow = 1.51 cfs @ 12.42 hrs, Volume= 10,397 cf, Atten= 64%, Lag= 14.6 min
Primary = 1.51 cfs @ 12.42 hrs, Volume= 10,397 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 671.73' @ 12.42 hrs Surf.Area= 6,832 sf Storage= 4,115 cf

Plug-Flow detention time= 277.8 min calculated for 10,397 cf (97% of inflow)
Center-of-Mass det. time= 263.2 min (1,081.6 - 818.4)

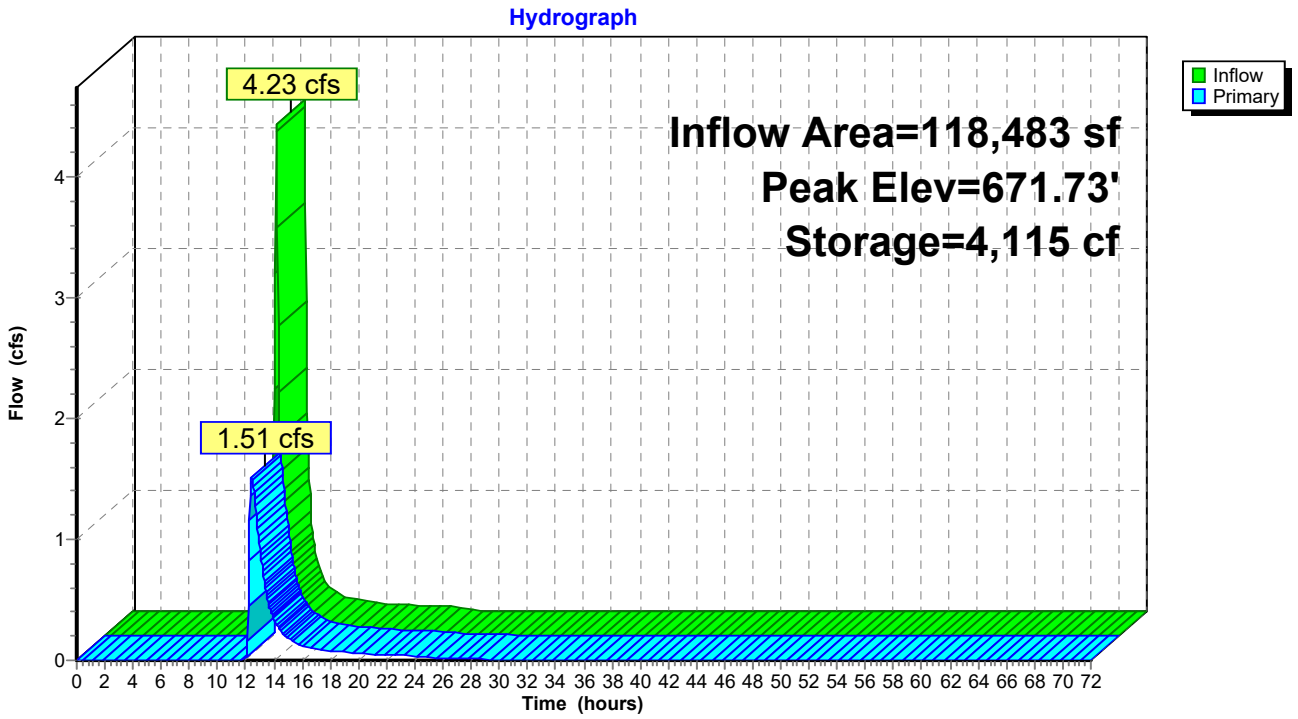
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.50 cfs @ 12.42 hrs HW=671.73' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 1.50 cfs of 12.95 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.30 fps)
  └─**3=Orifice/Grate** (Orifice Controls 1.50 cfs @ 2.62 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 1.26" for 1-Year event
Inflow = 40.75 cfs @ 12.44 hrs, Volume= 173,135 cf
Outflow = 1.66 cfs @ 15.68 hrs, Volume= 157,190 cf, Atten= 96%, Lag= 194.4 min
Primary = 1.66 cfs @ 15.68 hrs, Volume= 157,190 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 705.25' @ 15.68 hrs Surf.Area= 80,288 sf Storage= 128,798 cf

Plug-Flow detention time= 1,352.6 min calculated for 157,081 cf (91% of inflow)
Center-of-Mass det. time= 1,310.7 min (2,140.7 - 830.1)

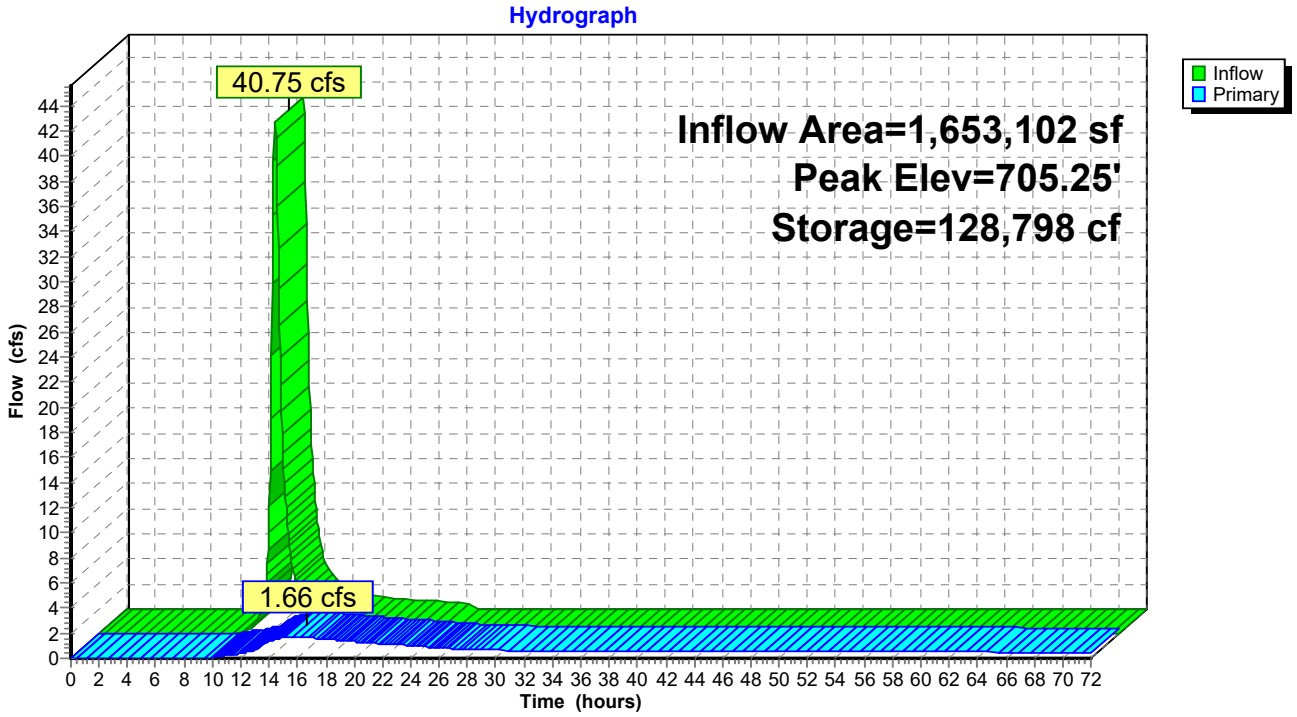
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.66 cfs @ 15.68 hrs HW=705.25' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 1.66 cfs of 40.93 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.65 cfs @ 9.75 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 1.01 cfs @ 2.28 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

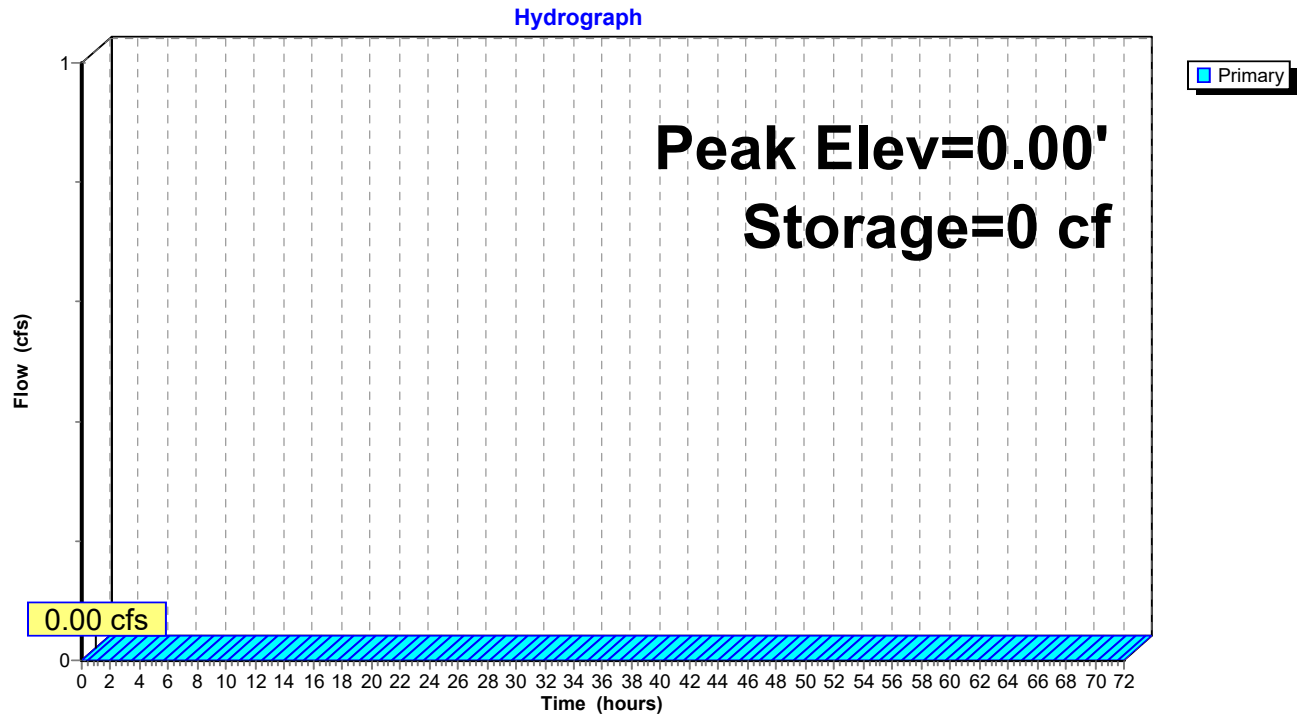
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

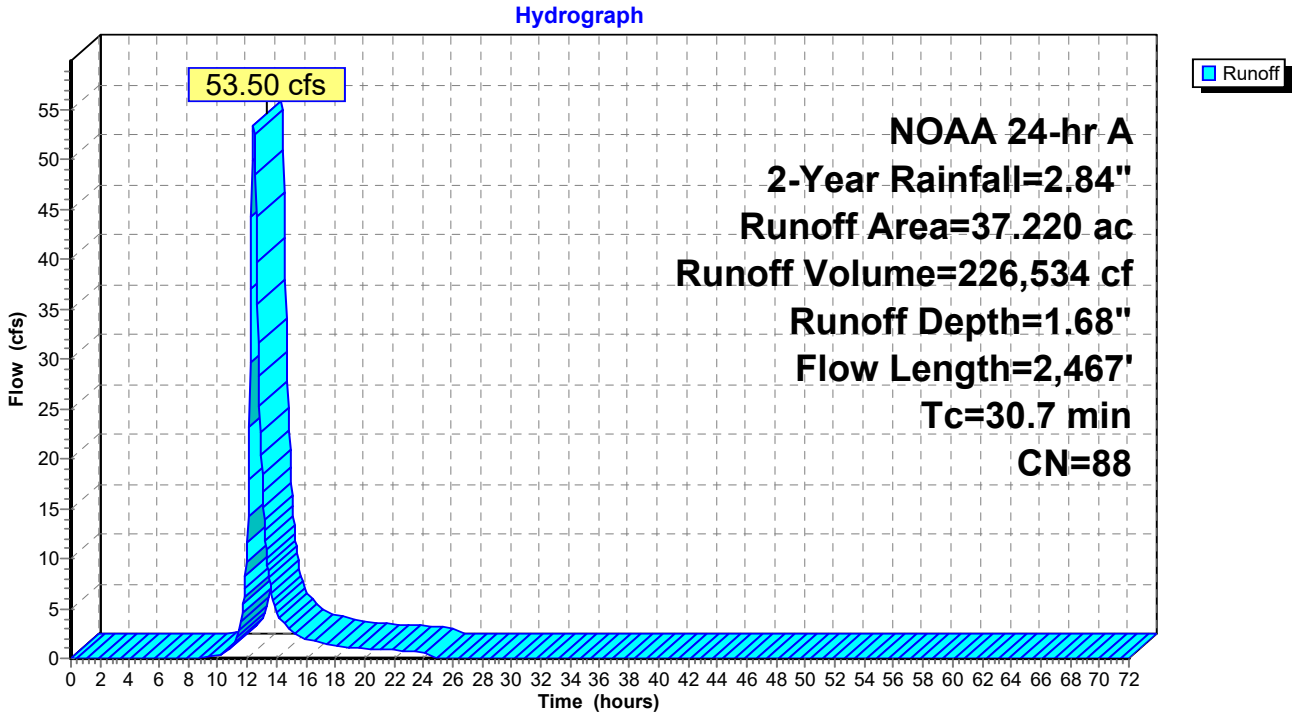
Runoff = 53.50 cfs @ 12.44 hrs, Volume= 226,534 cf, Depth= 1.68"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



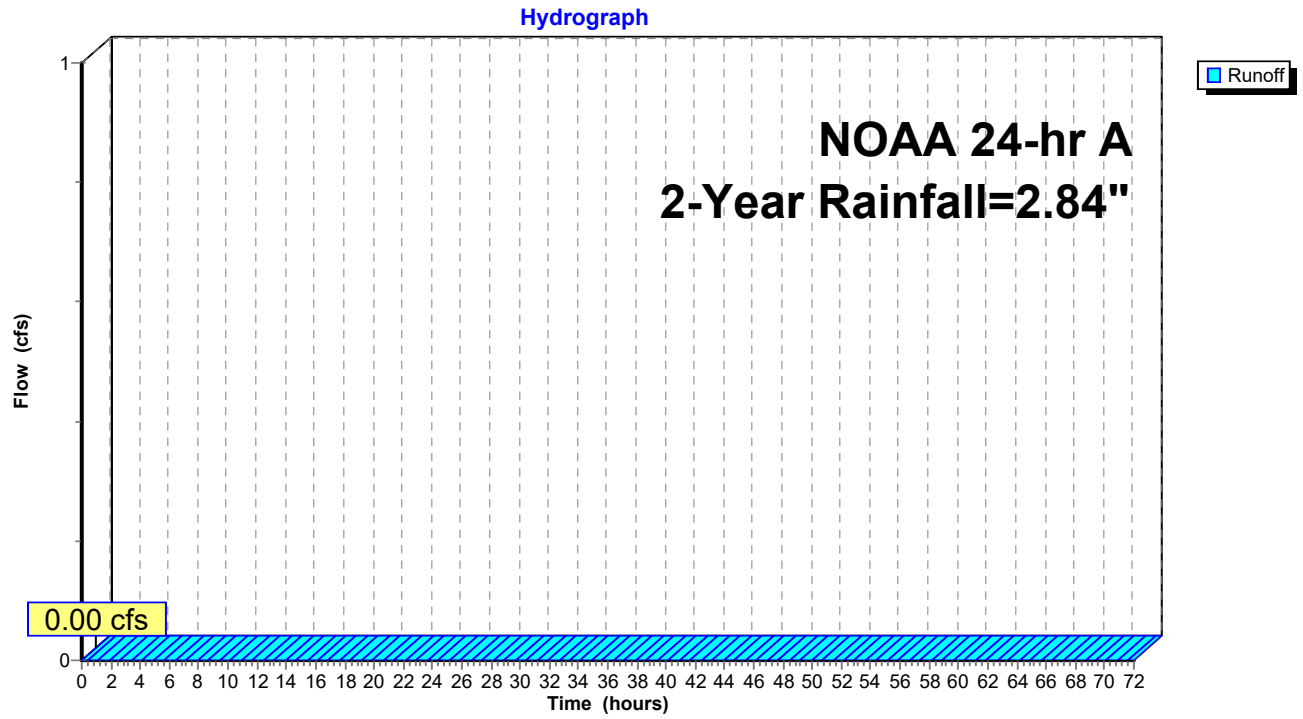
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

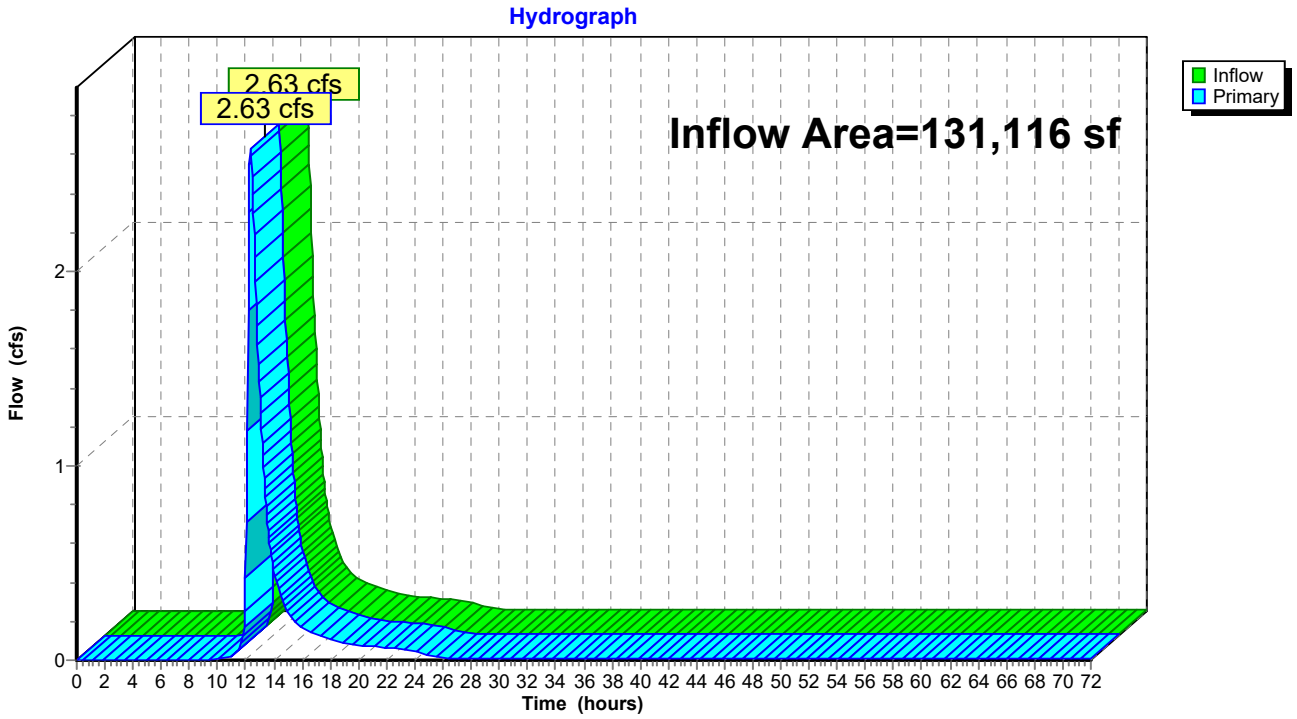


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.46" for 2-Year event
Inflow = 2.63 cfs @ 12.32 hrs, Volume= 15,962 cf
Primary = 2.63 cfs @ 12.32 hrs, Volume= 15,962 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

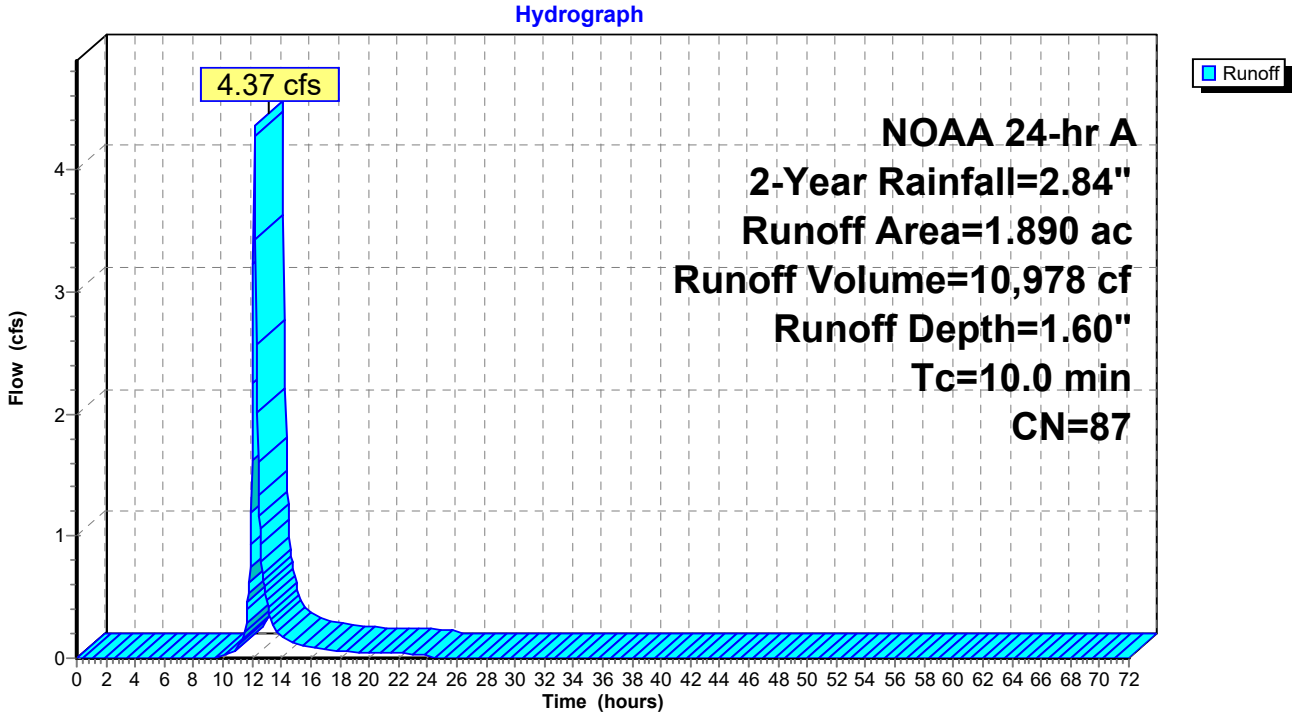
Runoff = 4.37 cfs @ 12.18 hrs, Volume= 10,978 cf, Depth= 1.60"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

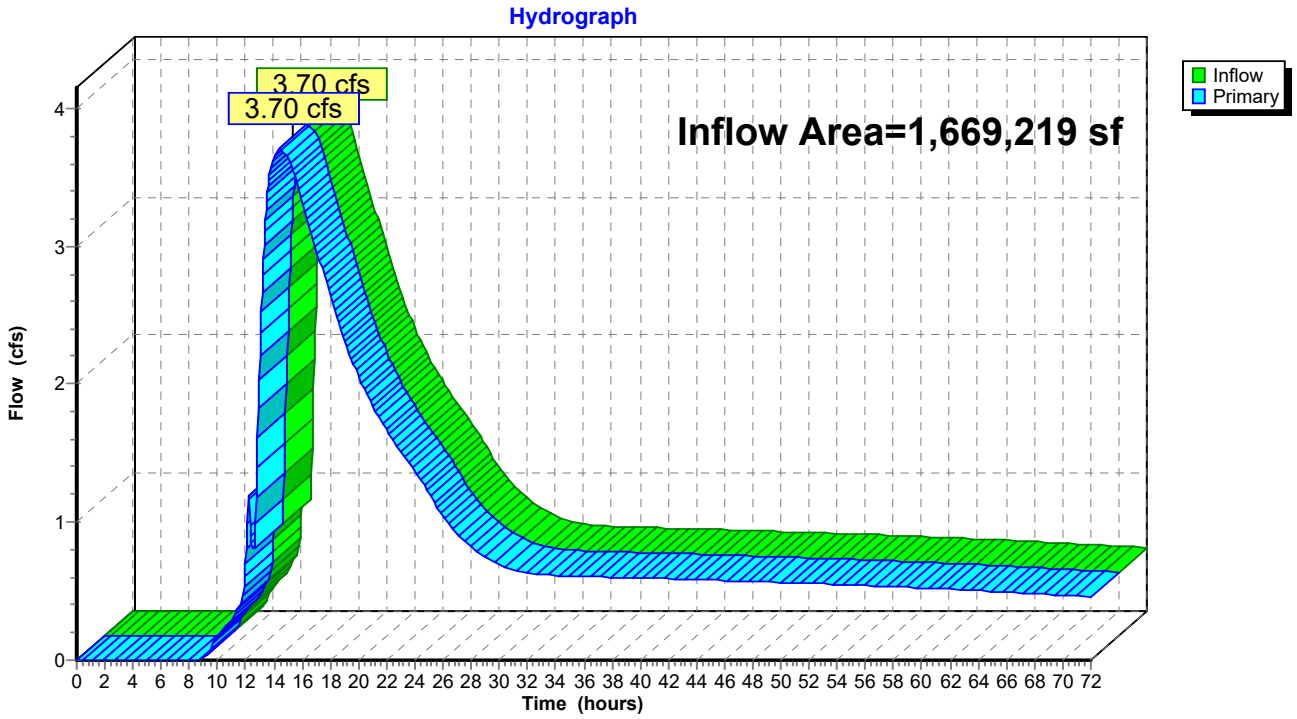


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 1.52" for 2-Year event
Inflow = 3.70 cfs @ 14.40 hrs, Volume= 211,448 cf
Primary = 3.70 cfs @ 14.40 hrs, Volume= 211,448 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

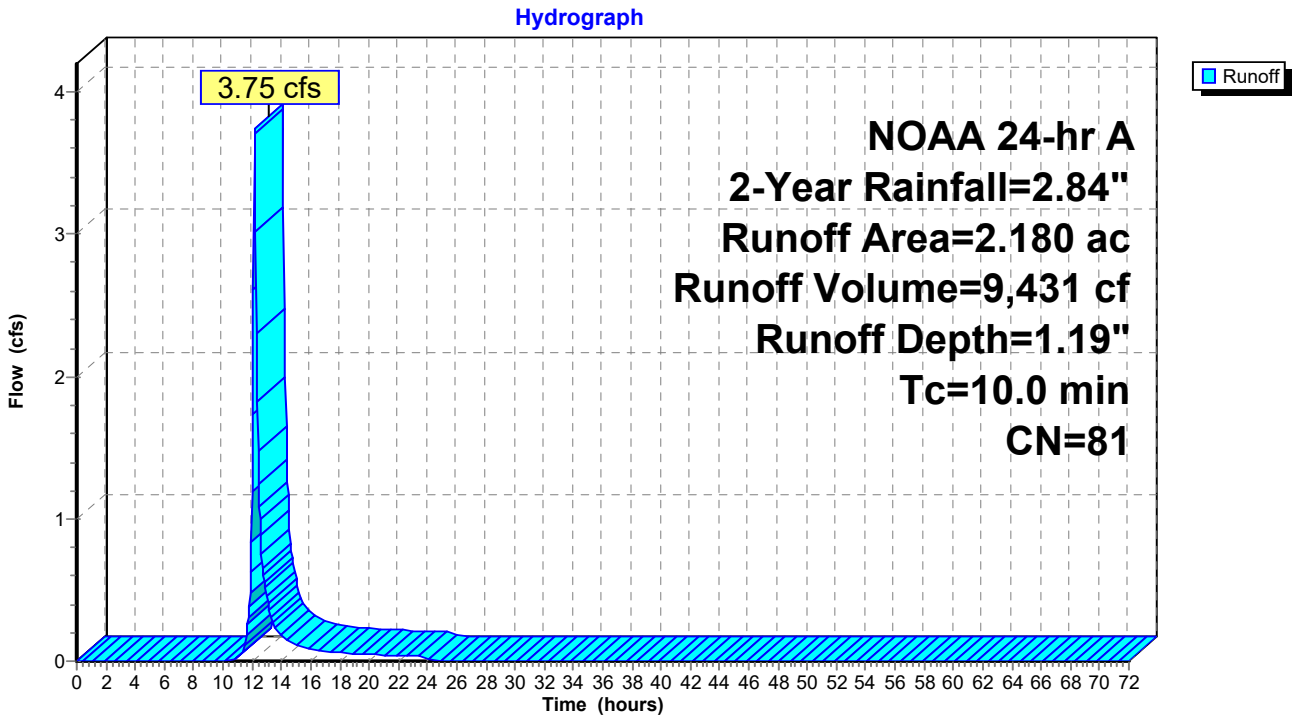
Runoff = 3.75 cfs @ 12.18 hrs, Volume= 9,431 cf, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

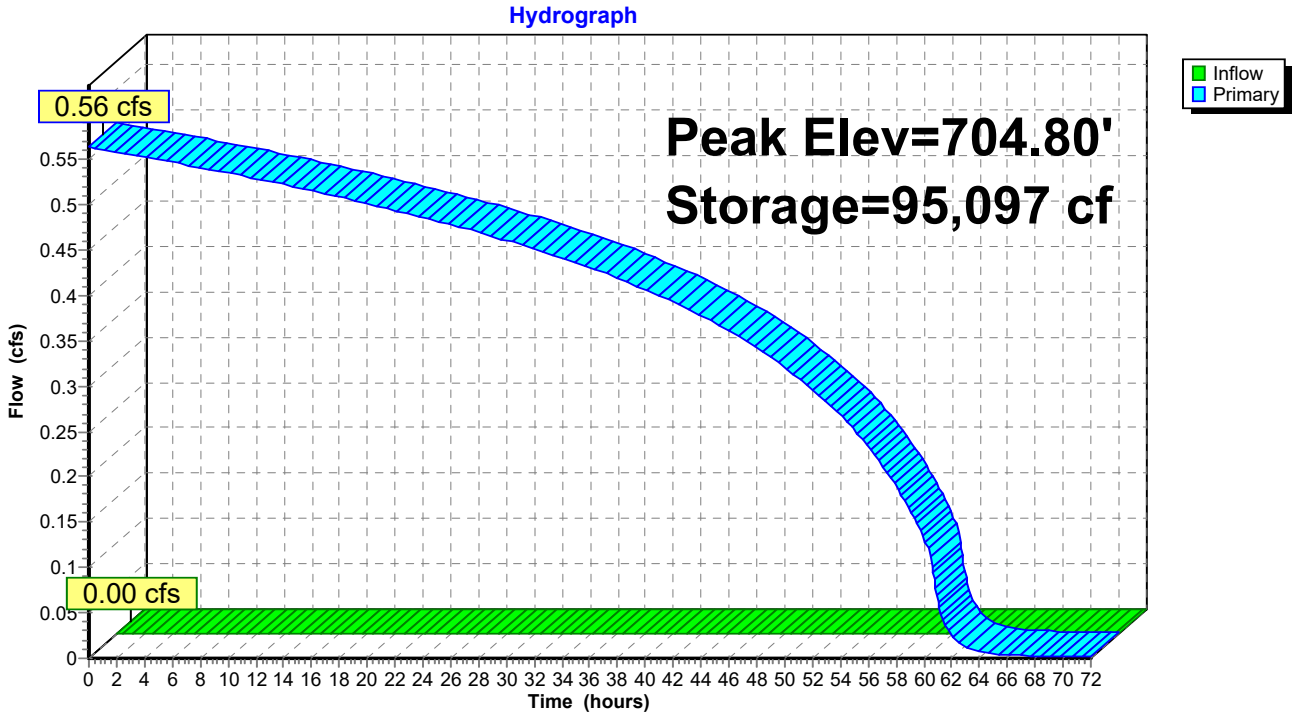
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

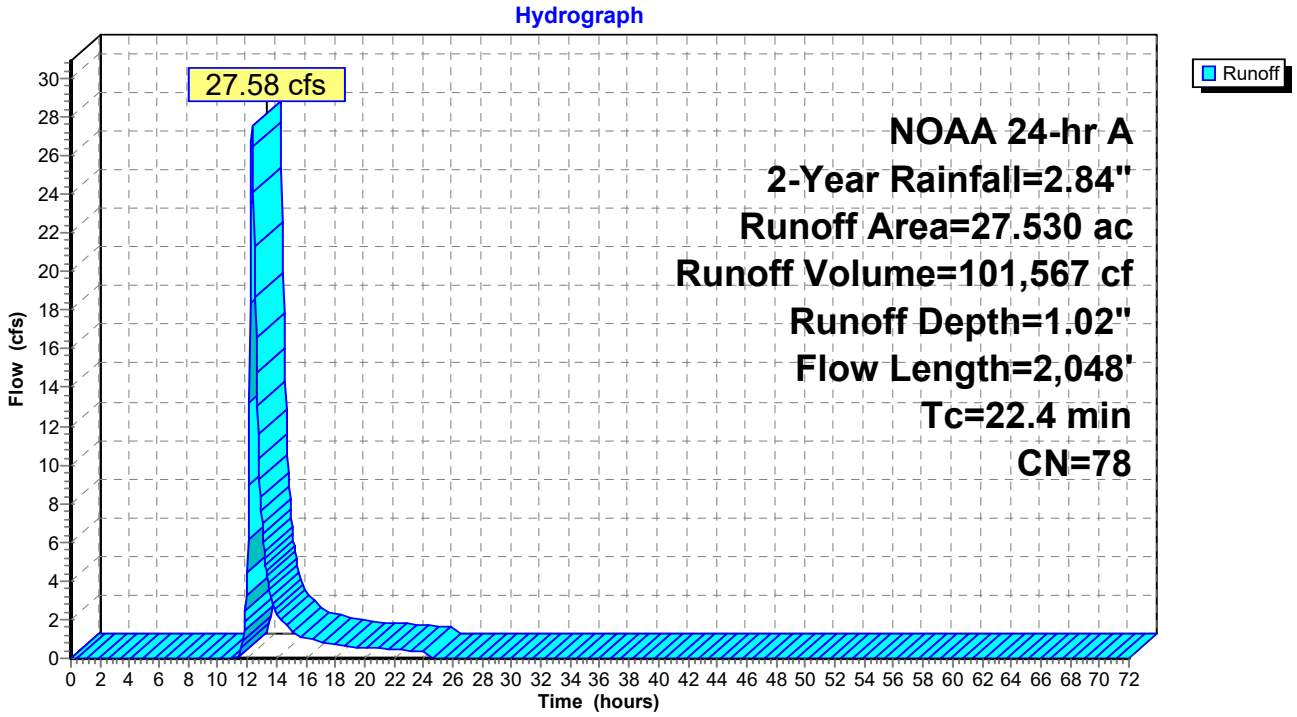
Runoff = 27.58 cfs @ 12.35 hrs, Volume= 101,567 cf, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

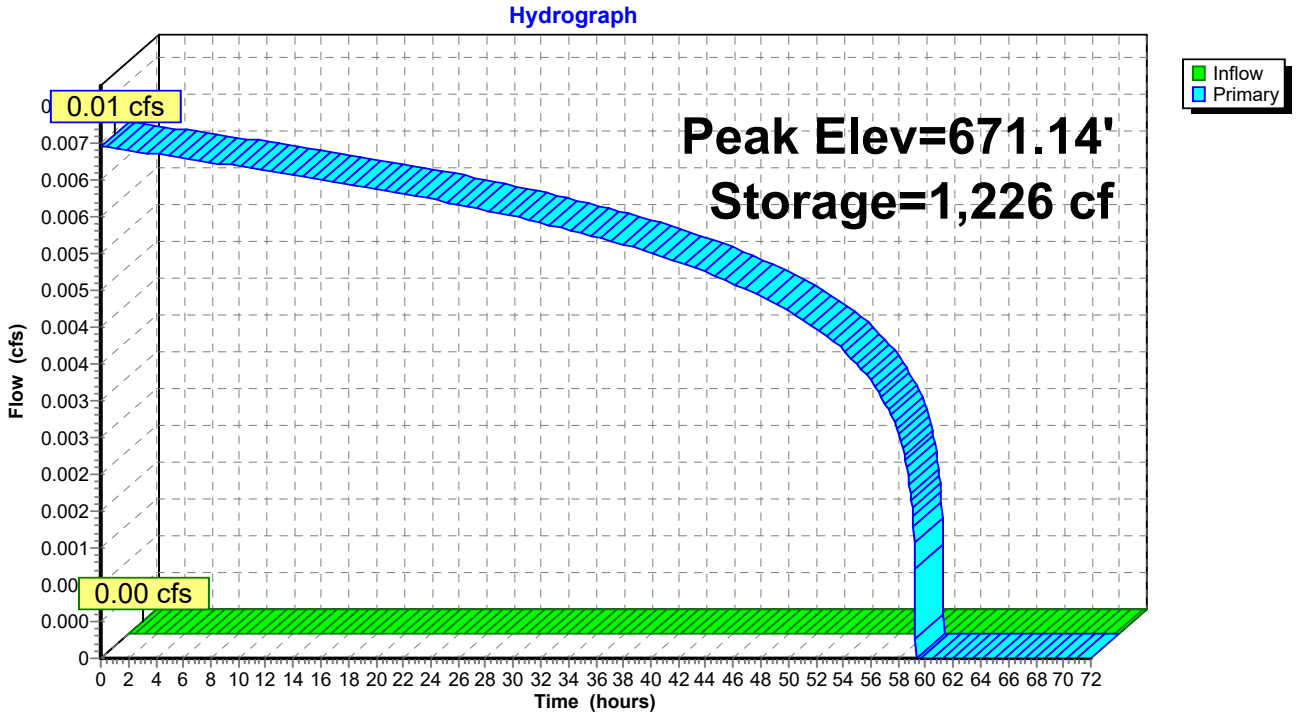
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

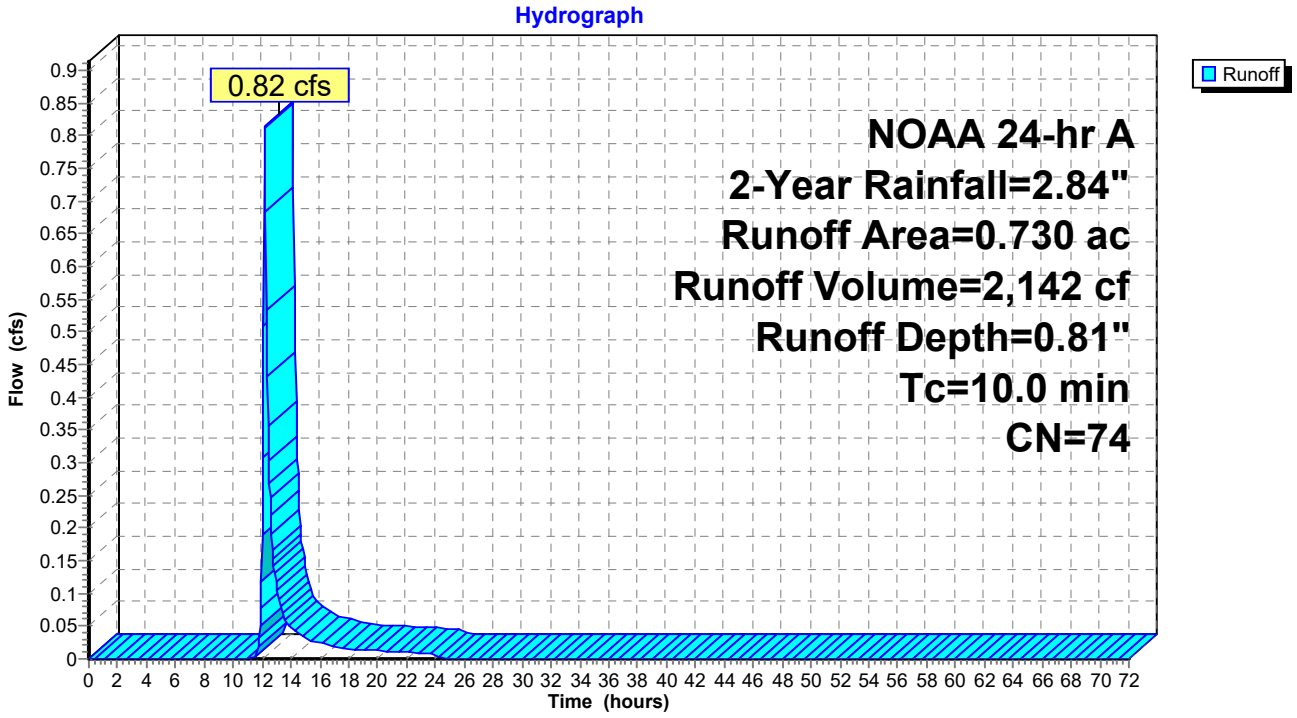
Runoff = 0.82 cfs @ 12.19 hrs, Volume= 2,142 cf, Depth= 0.81"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

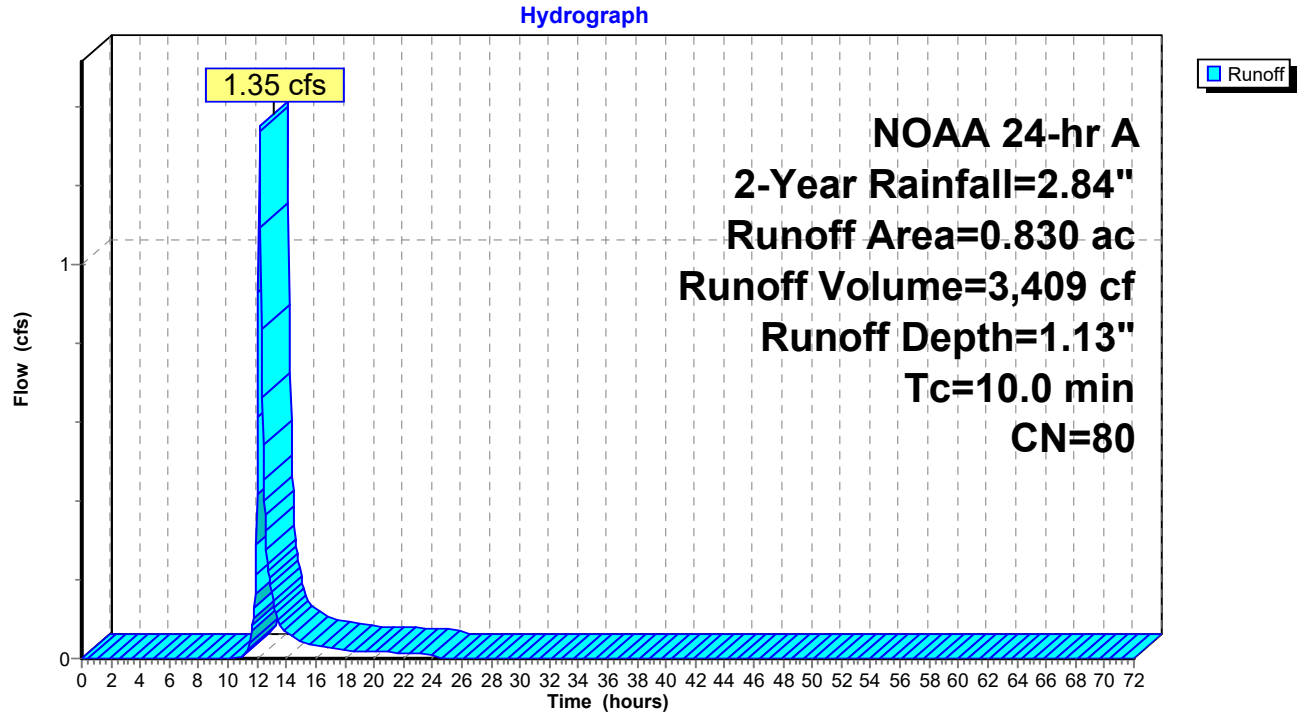
Runoff = 1.35 cfs @ 12.18 hrs, Volume= 3,409 cf, Depth= 1.13"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

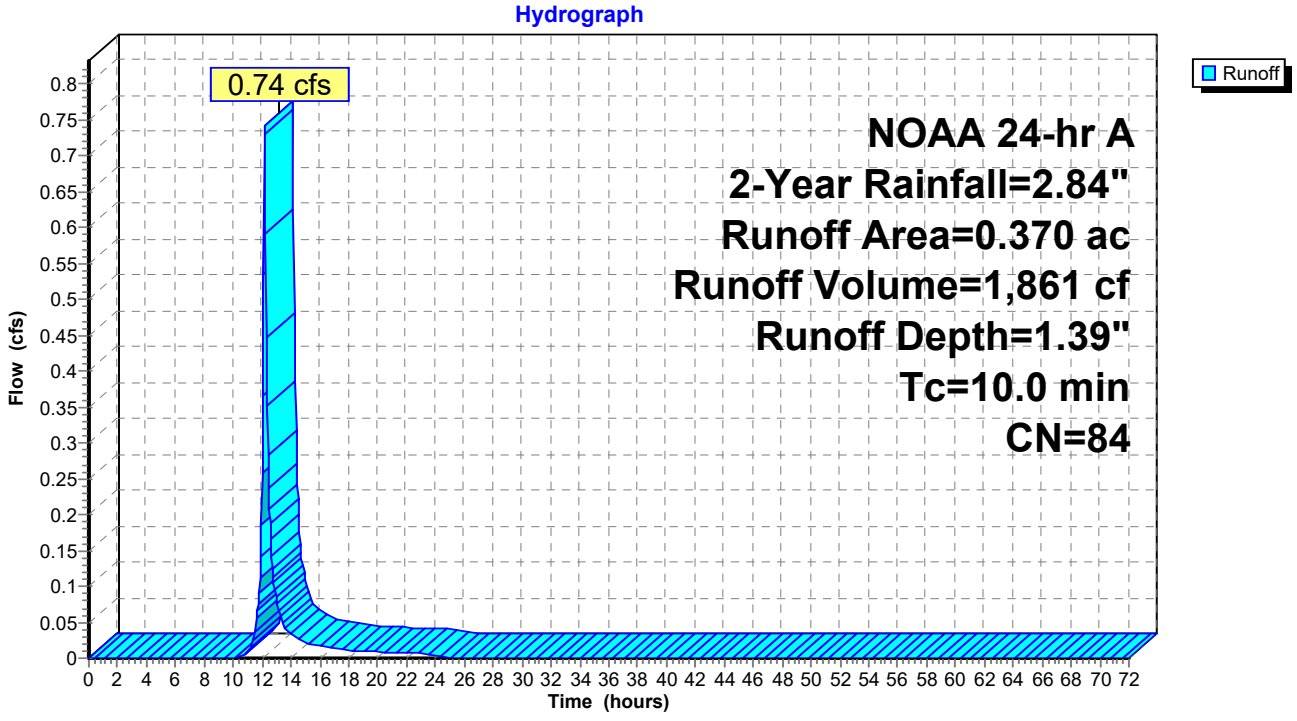
Runoff = 0.74 cfs @ 12.18 hrs, Volume= 1,861 cf, Depth= 1.39"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

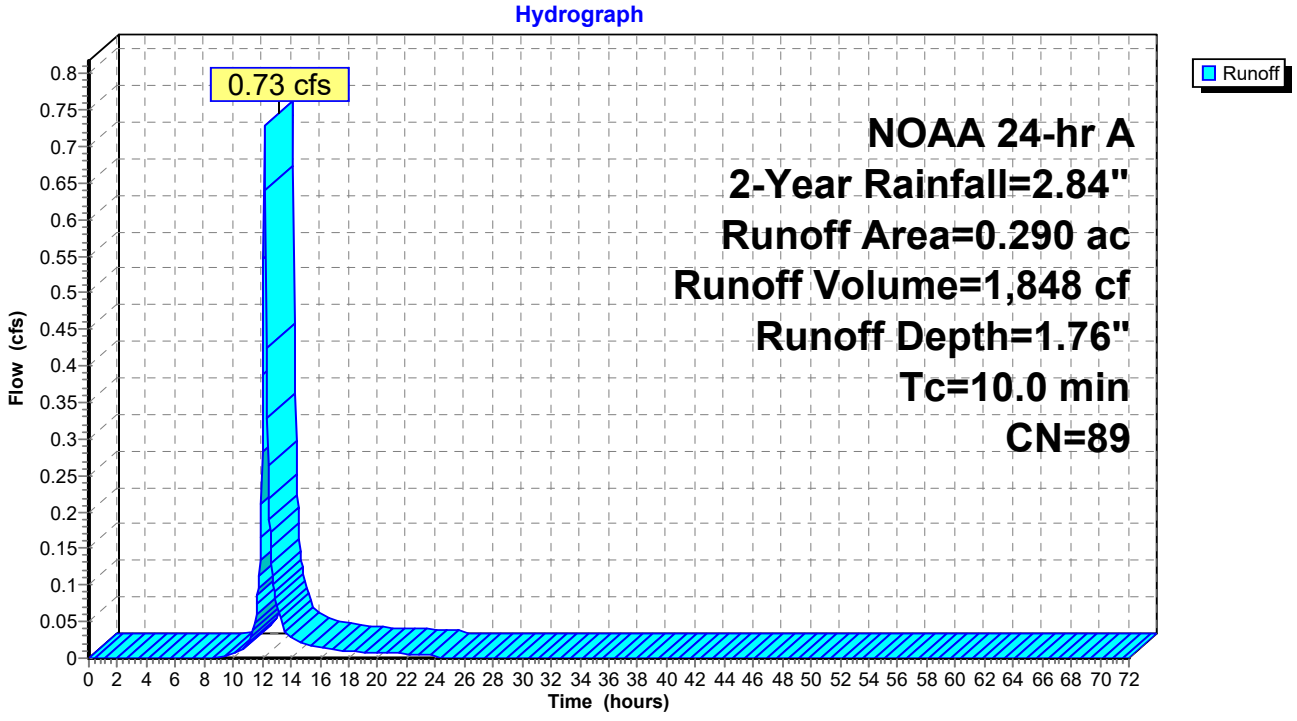
Runoff = 0.73 cfs @ 12.18 hrs, Volume= 1,848 cf, Depth= 1.76"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

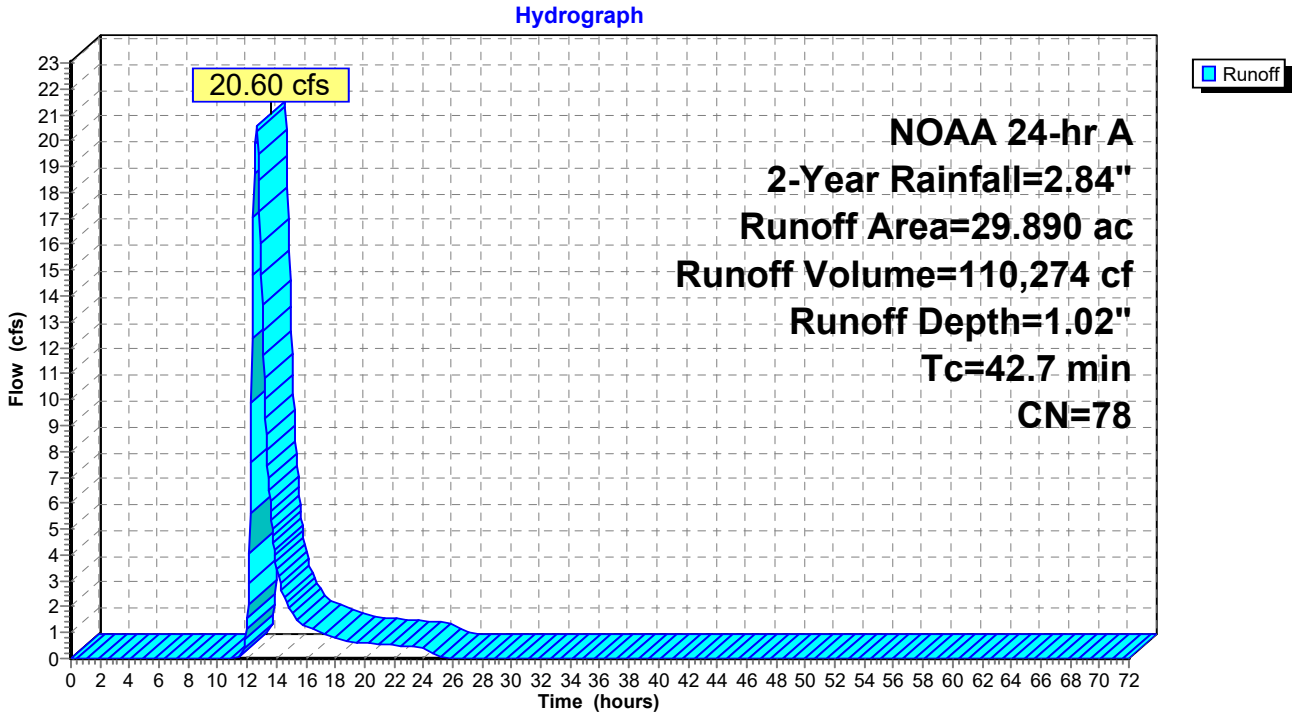
Runoff = 20.60 cfs @ 12.64 hrs, Volume= 110,274 cf, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.46" for 2-Year event
Inflow = 5.72 cfs @ 12.18 hrs, Volume= 14,387 cf
Outflow = 2.30 cfs @ 12.39 hrs, Volume= 14,114 cf, Atten= 60%, Lag= 12.6 min
Primary = 2.30 cfs @ 12.39 hrs, Volume= 14,114 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 671.90' @ 12.39 hrs Surf.Area= 8,089 sf Storage= 5,329 cf

Plug-Flow detention time= 214.8 min calculated for 14,114 cf (98% of inflow)
Center-of-Mass det. time= 203.4 min (1,015.6 - 812.1)

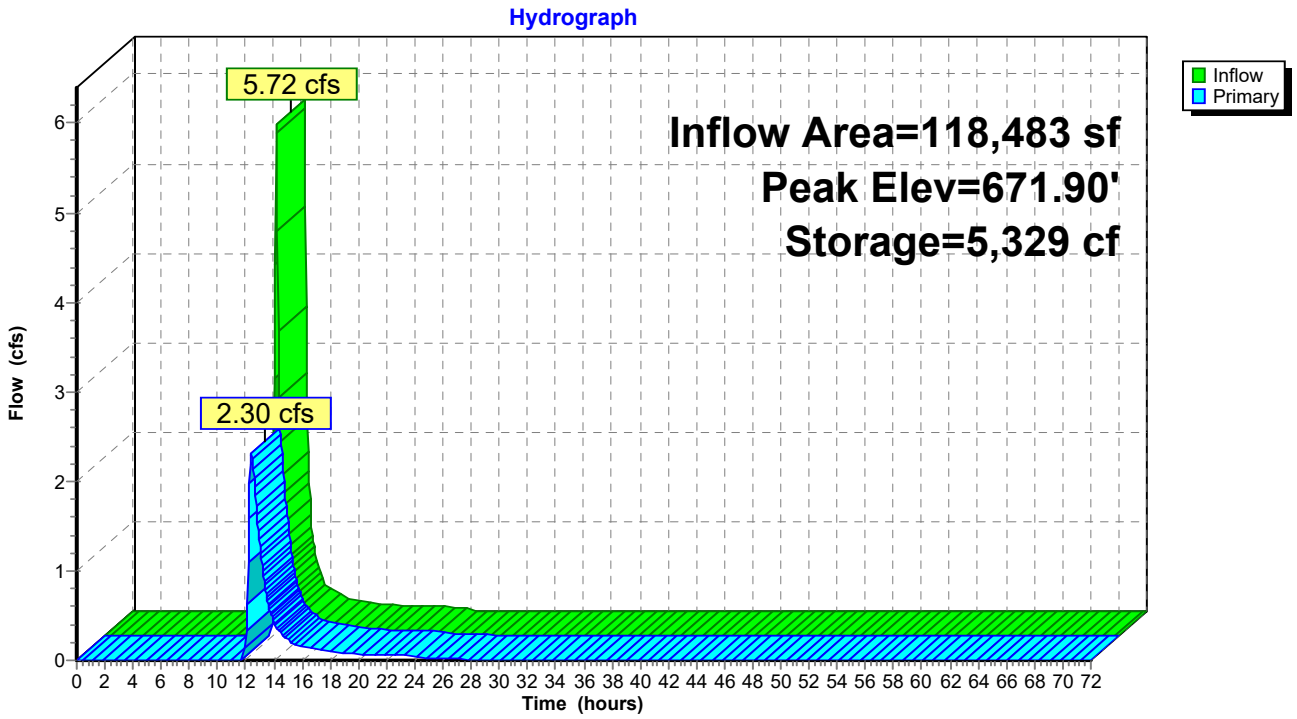
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.30 cfs @ 12.39 hrs HW=671.89' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 2.30 cfs of 14.42 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.59 fps)
  └─**3=Orifice/Grate** (Orifice Controls 2.29 cfs @ 2.96 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 1.66" for 2-Year event
Inflow = 53.82 cfs @ 12.44 hrs, Volume= 228,676 cf
Outflow = 3.68 cfs @ 14.43 hrs, Volume= 209,587 cf, Atten= 93%, Lag= 119.6 min
Primary = 3.68 cfs @ 14.43 hrs, Volume= 209,587 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 705.61' @ 14.43 hrs Surf.Area= 88,332 sf Storage= 159,415 cf

Plug-Flow detention time= 1,095.6 min calculated for 209,587 cf (92% of inflow)
Center-of-Mass det. time= 1,055.6 min (1,879.9 - 824.3)

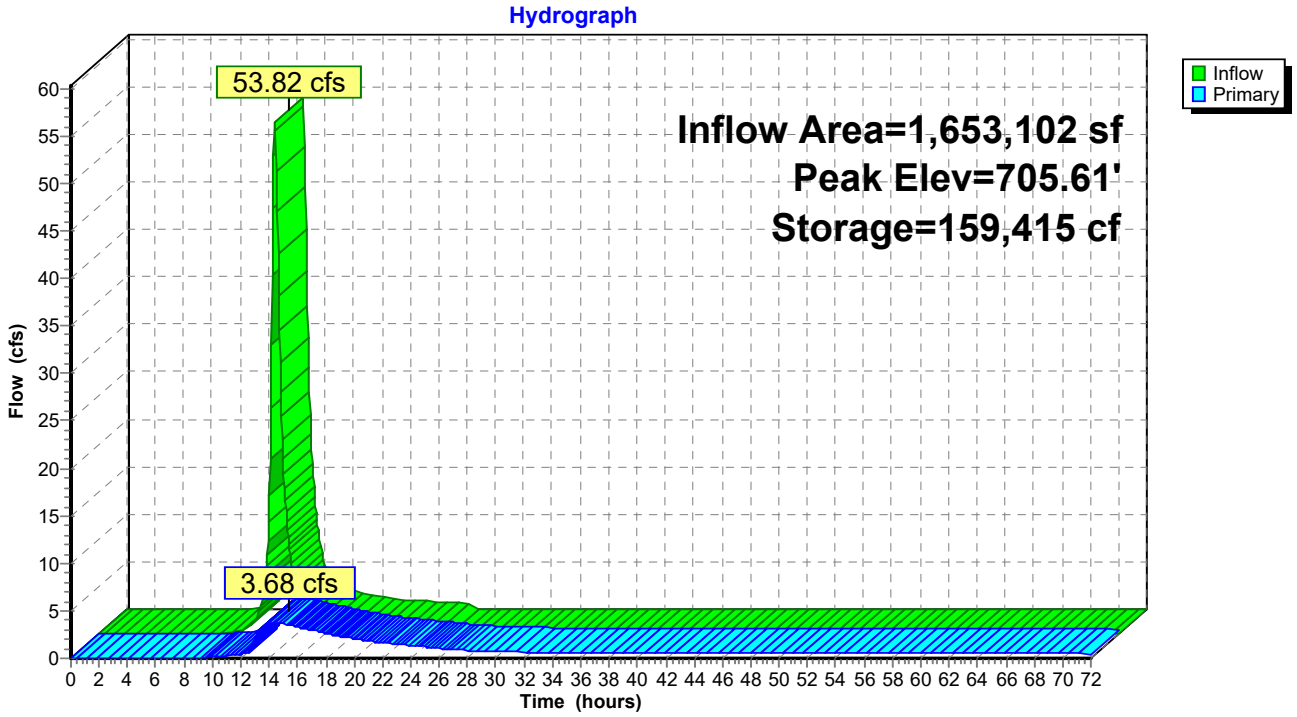
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.68 cfs @ 14.43 hrs HW=705.61' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 3.68 cfs of 43.34 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.68 cfs @ 10.18 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 3.00 cfs @ 3.07 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

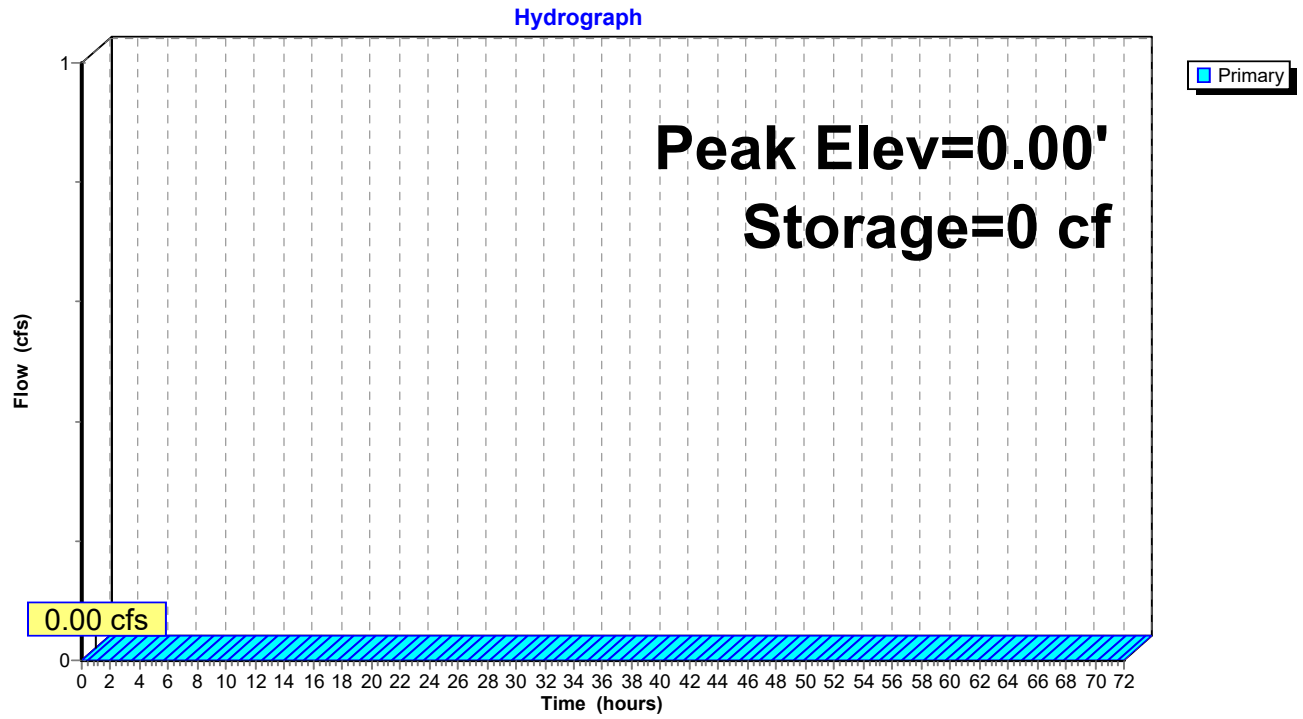
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

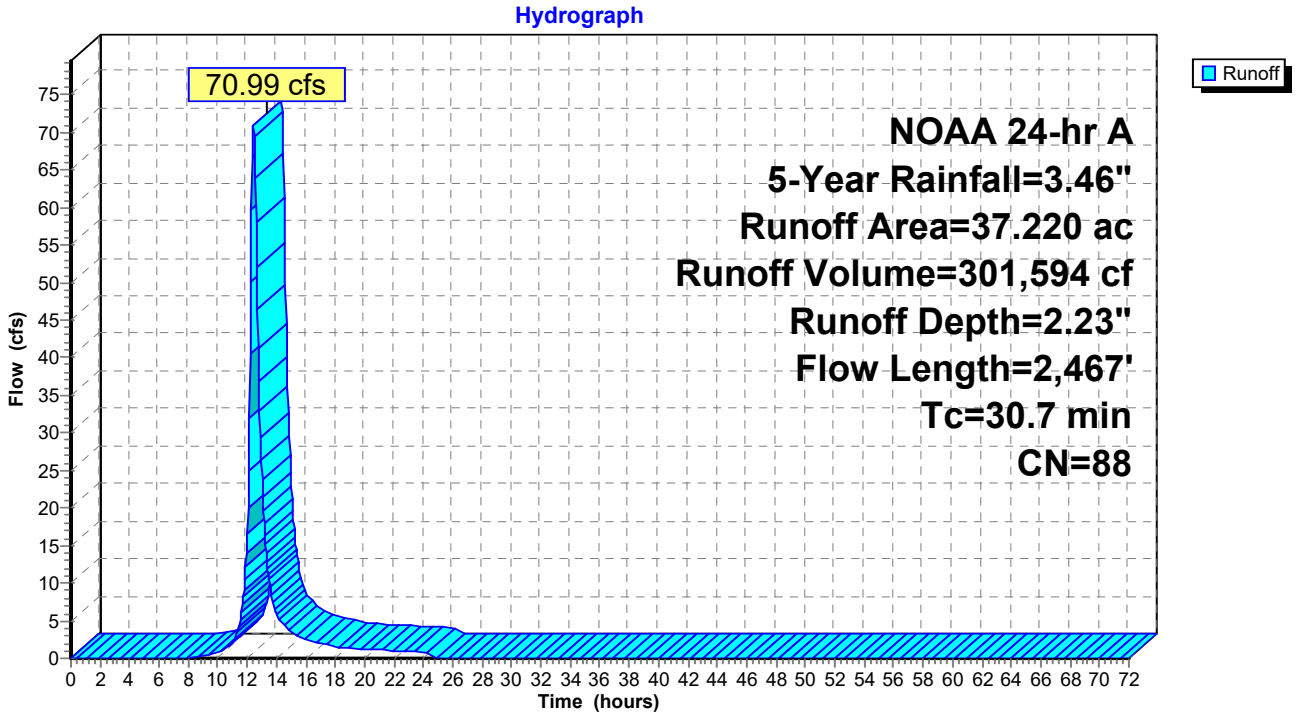
Runoff = 70.99 cfs @ 12.43 hrs, Volume= 301,594 cf, Depth= 2.23"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



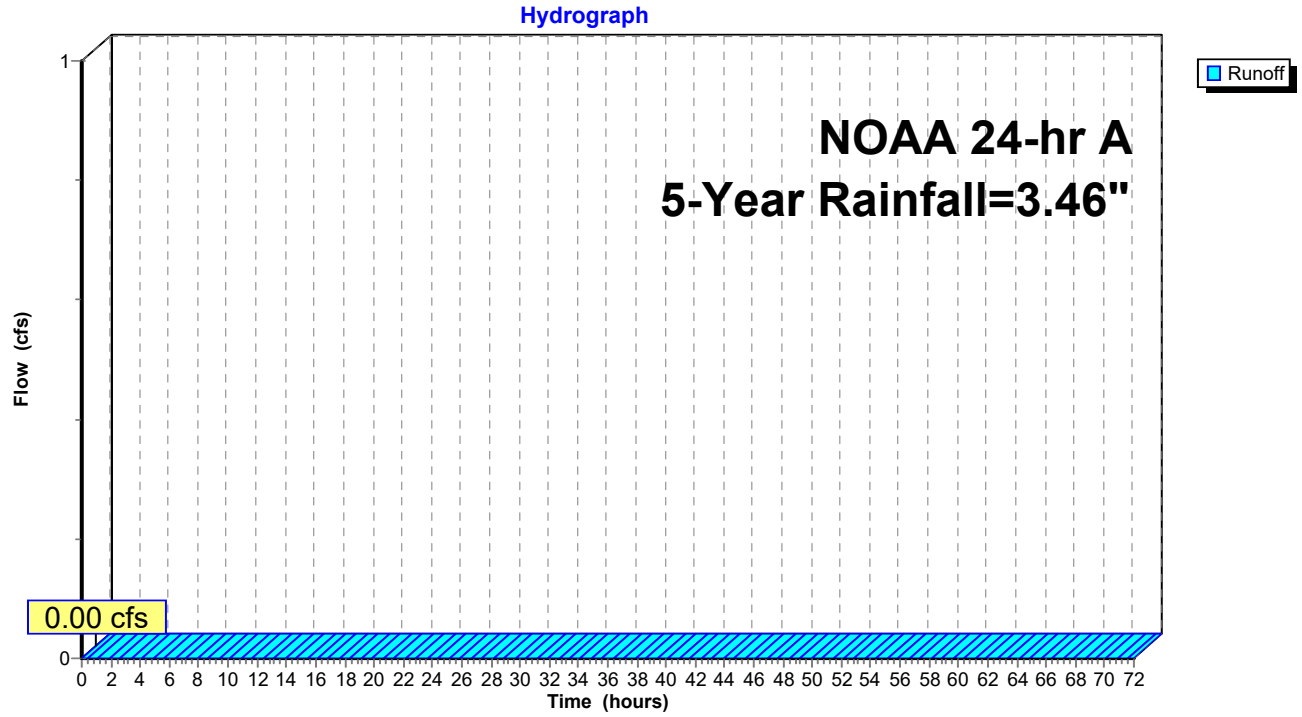
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

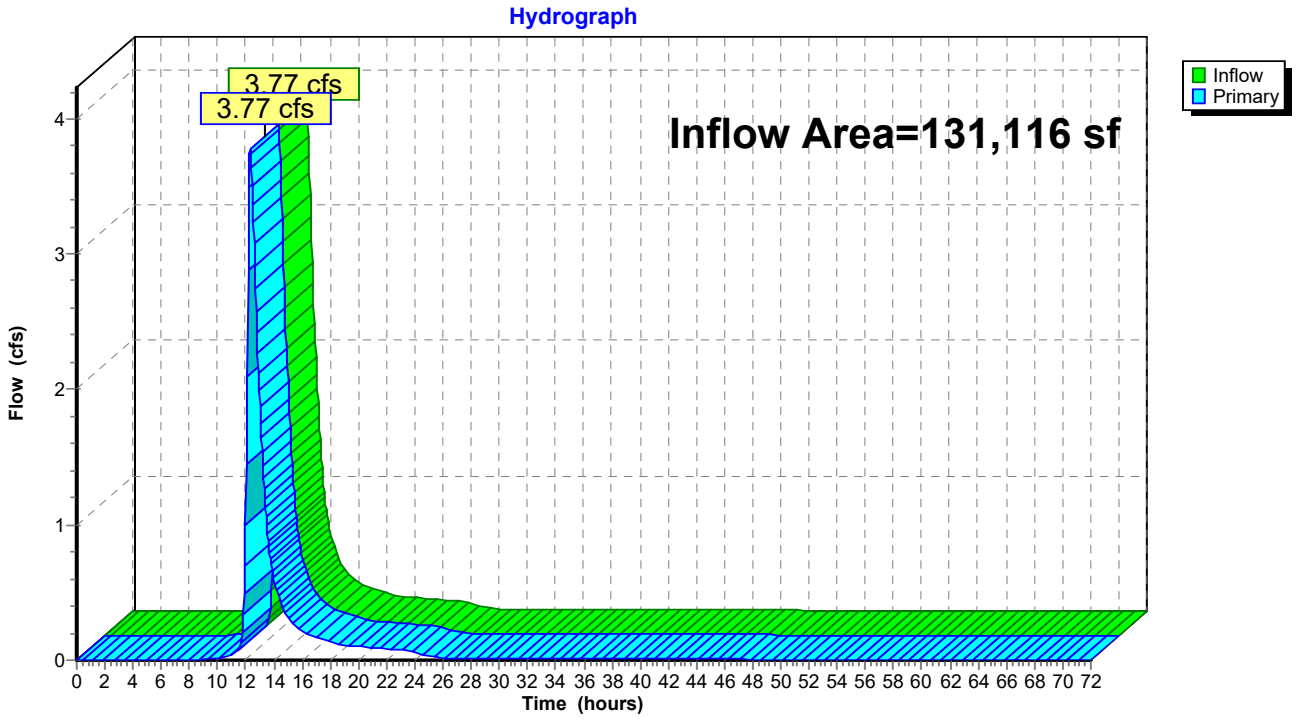


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.99" for 5-Year event
Inflow = 3.77 cfs @ 12.30 hrs, Volume= 21,726 cf
Primary = 3.77 cfs @ 12.30 hrs, Volume= 21,726 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

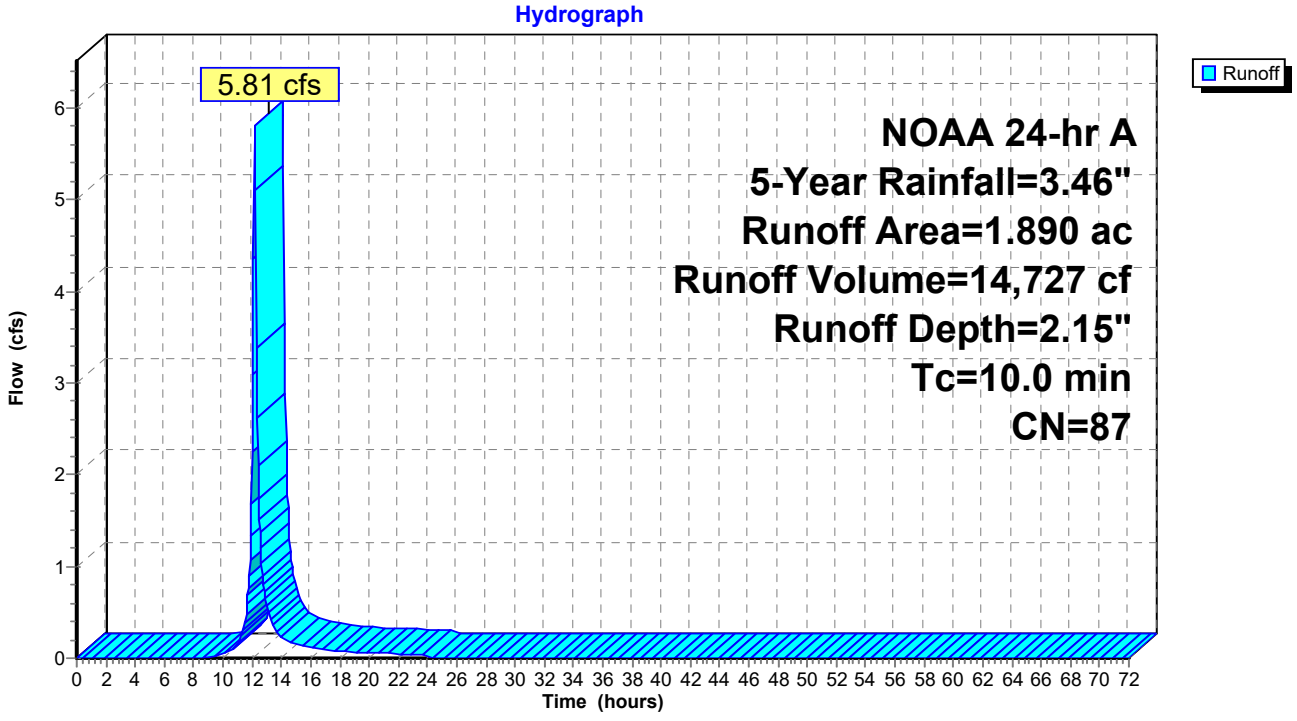
Runoff = 5.81 cfs @ 12.18 hrs, Volume= 14,727 cf, Depth= 2.15"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

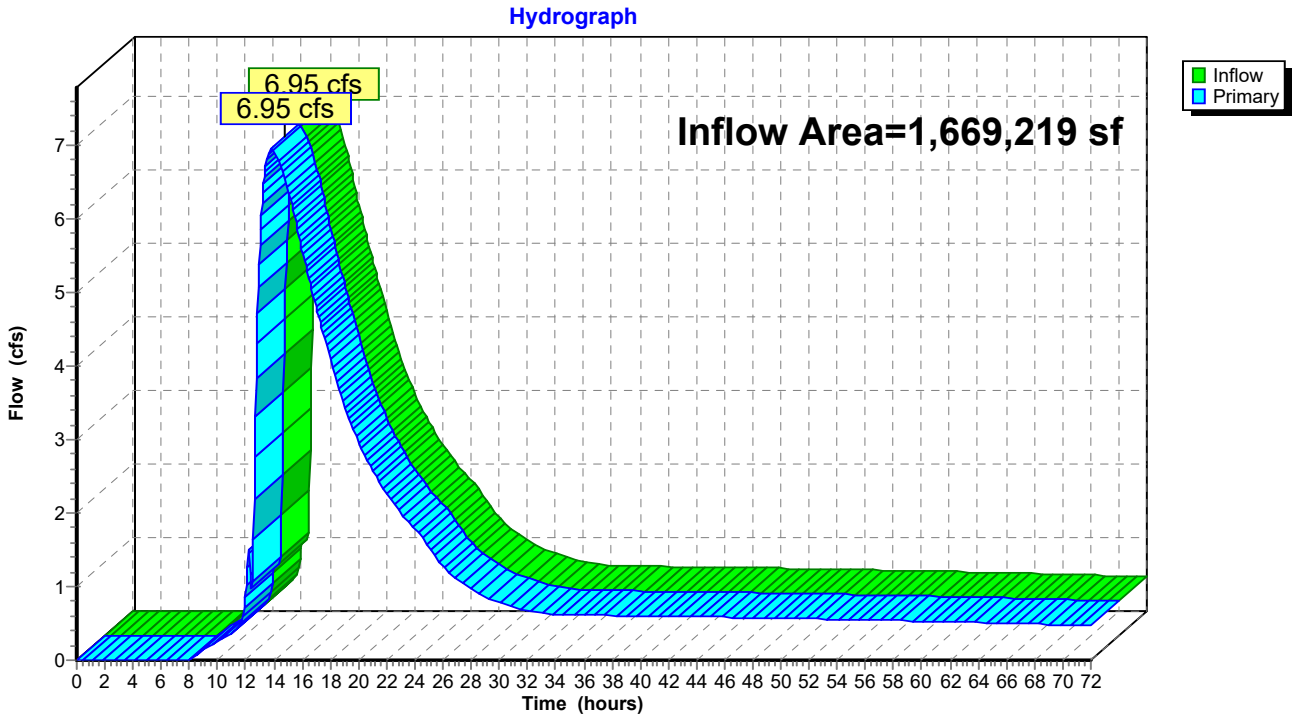


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 2.06" for 5-Year event
Inflow = 6.95 cfs @ 13.83 hrs, Volume= 285,928 cf
Primary = 6.95 cfs @ 13.83 hrs, Volume= 285,928 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

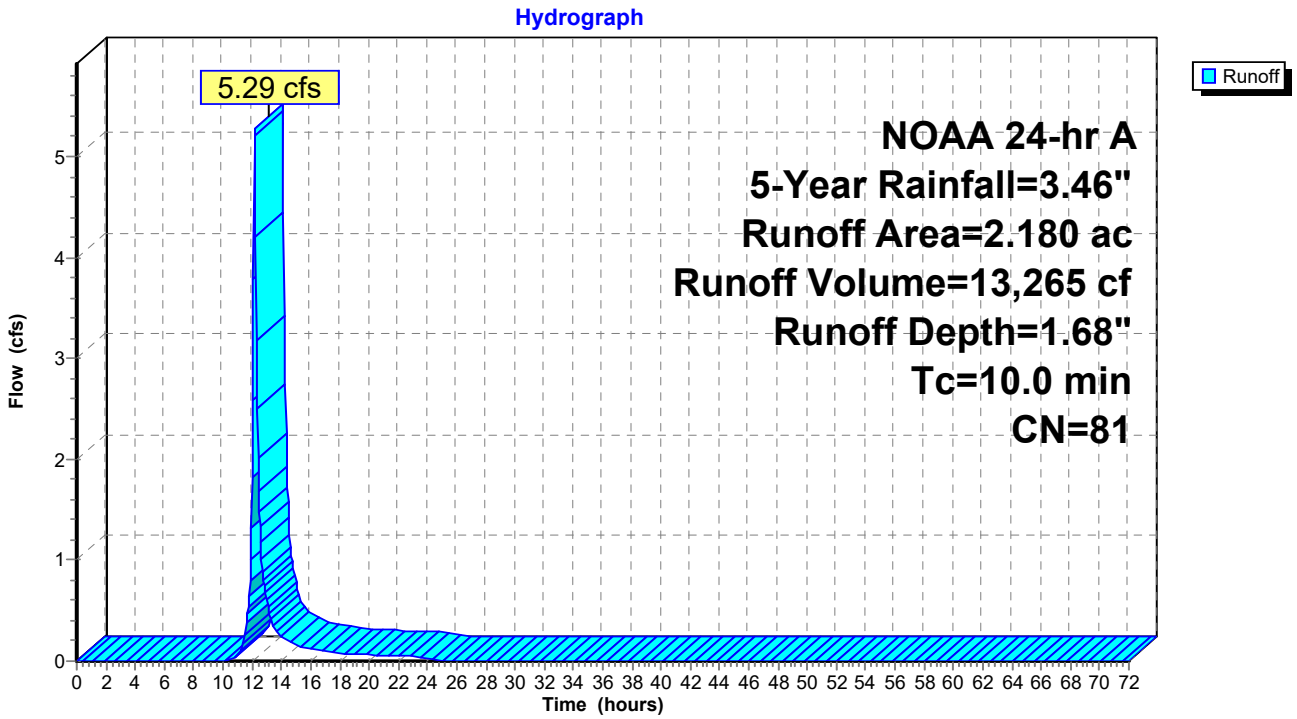
Runoff = 5.29 cfs @ 12.18 hrs, Volume= 13,265 cf, Depth= 1.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

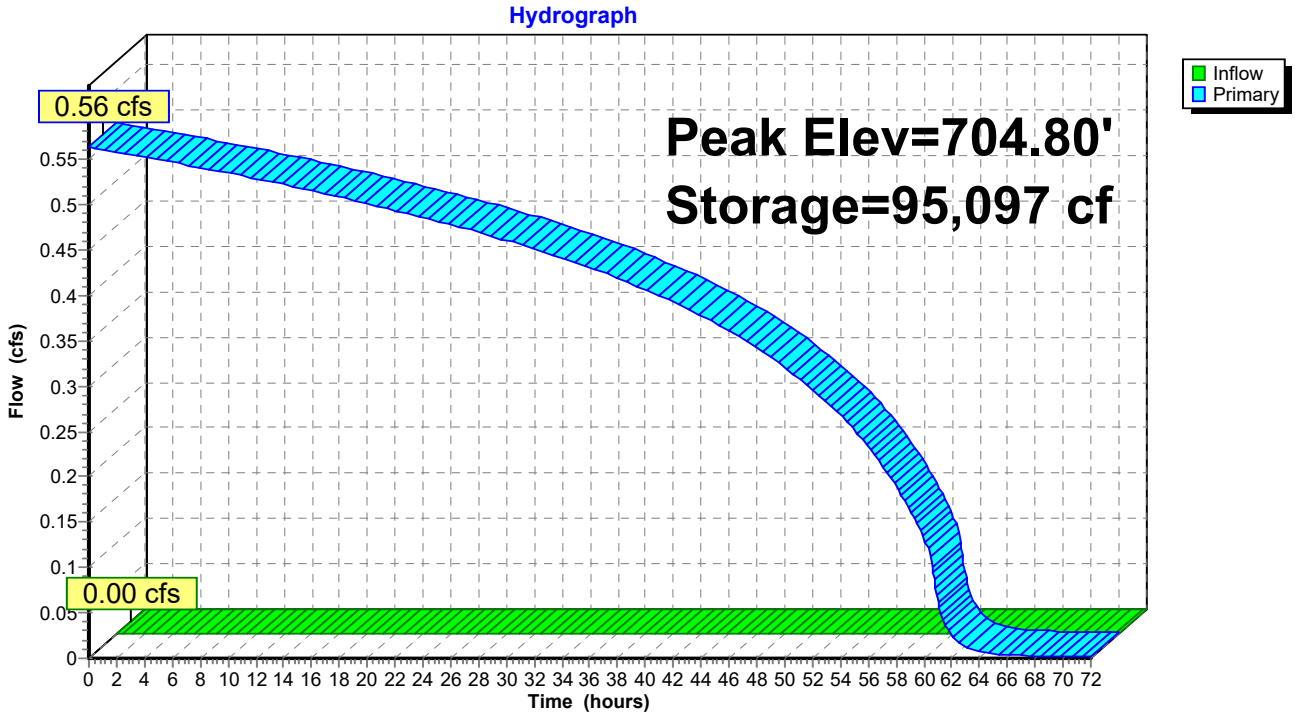
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

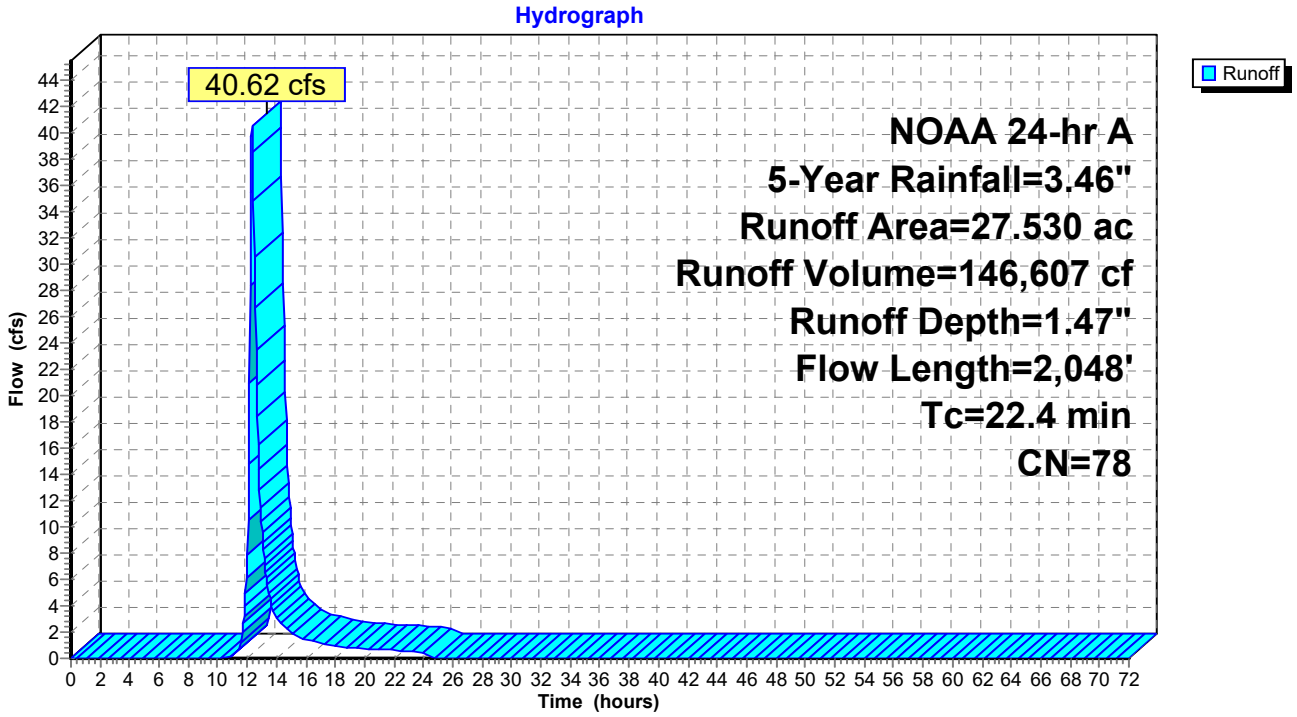
Runoff = 40.62 cfs @ 12.34 hrs, Volume= 146,607 cf, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

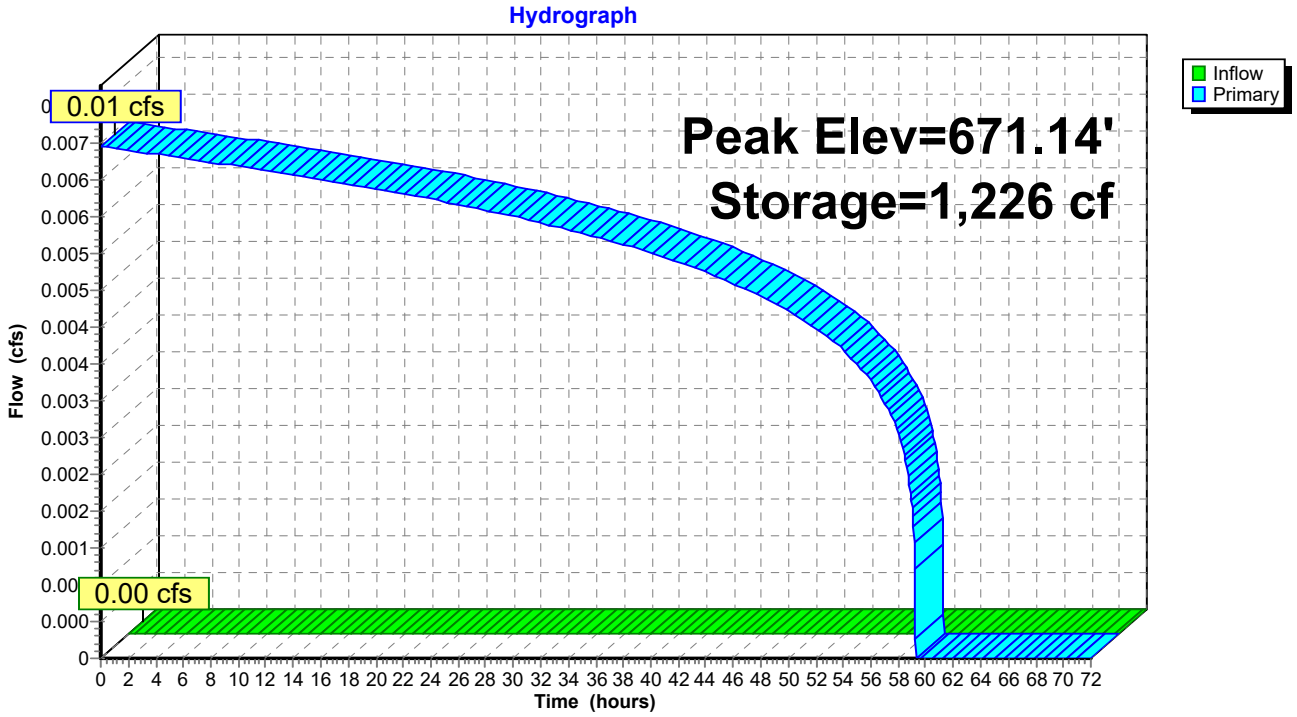
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

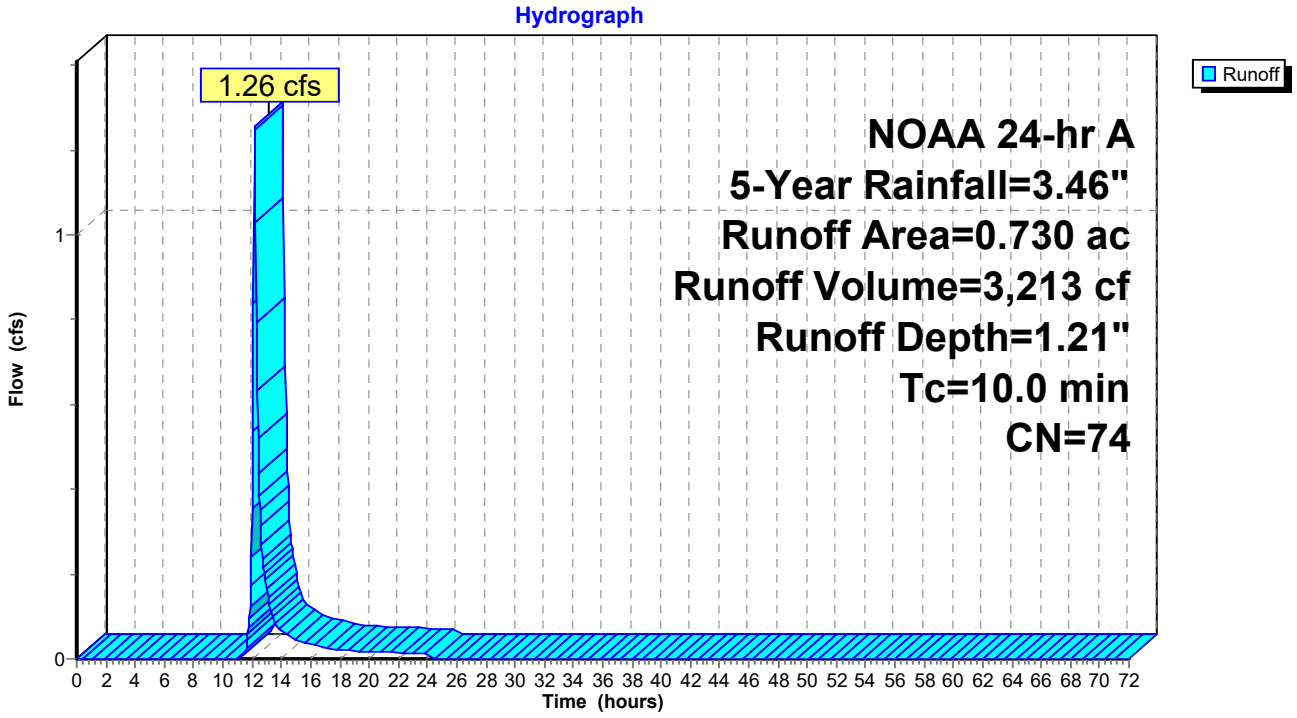
Runoff = 1.26 cfs @ 12.19 hrs, Volume= 3,213 cf, Depth= 1.21"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

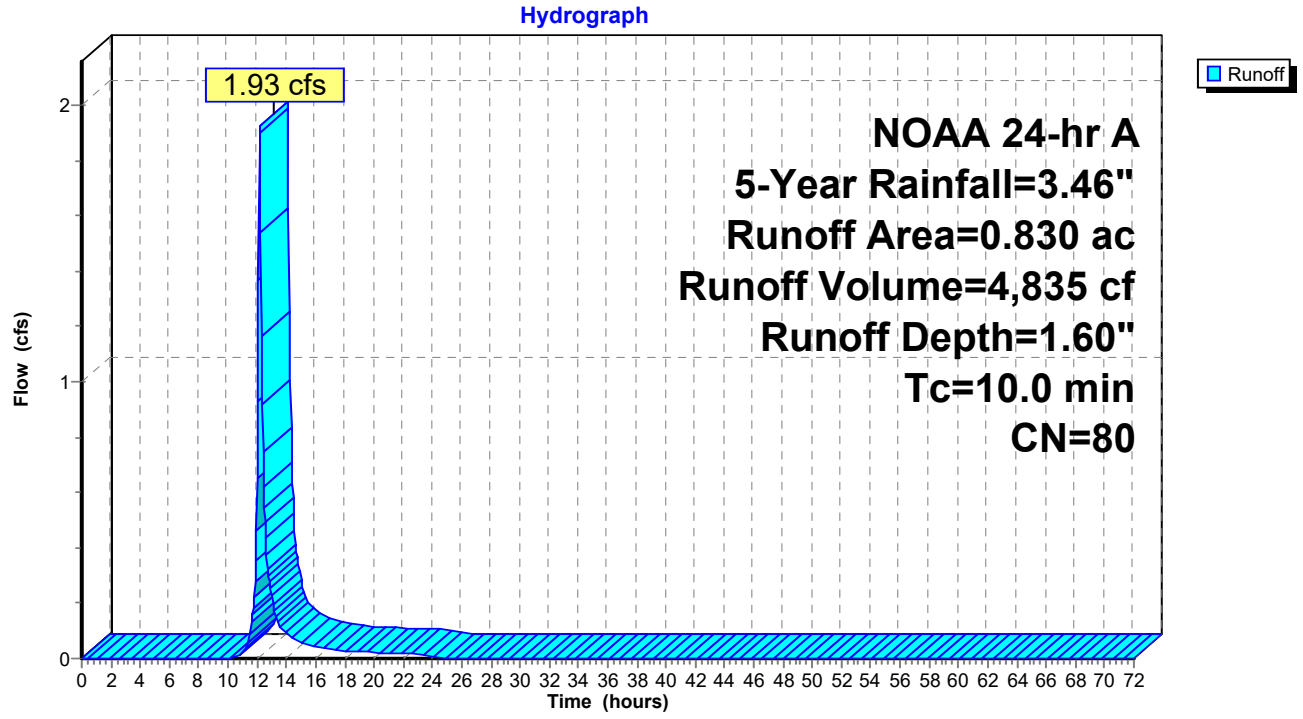
Runoff = 1.93 cfs @ 12.18 hrs, Volume= 4,835 cf, Depth= 1.60"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

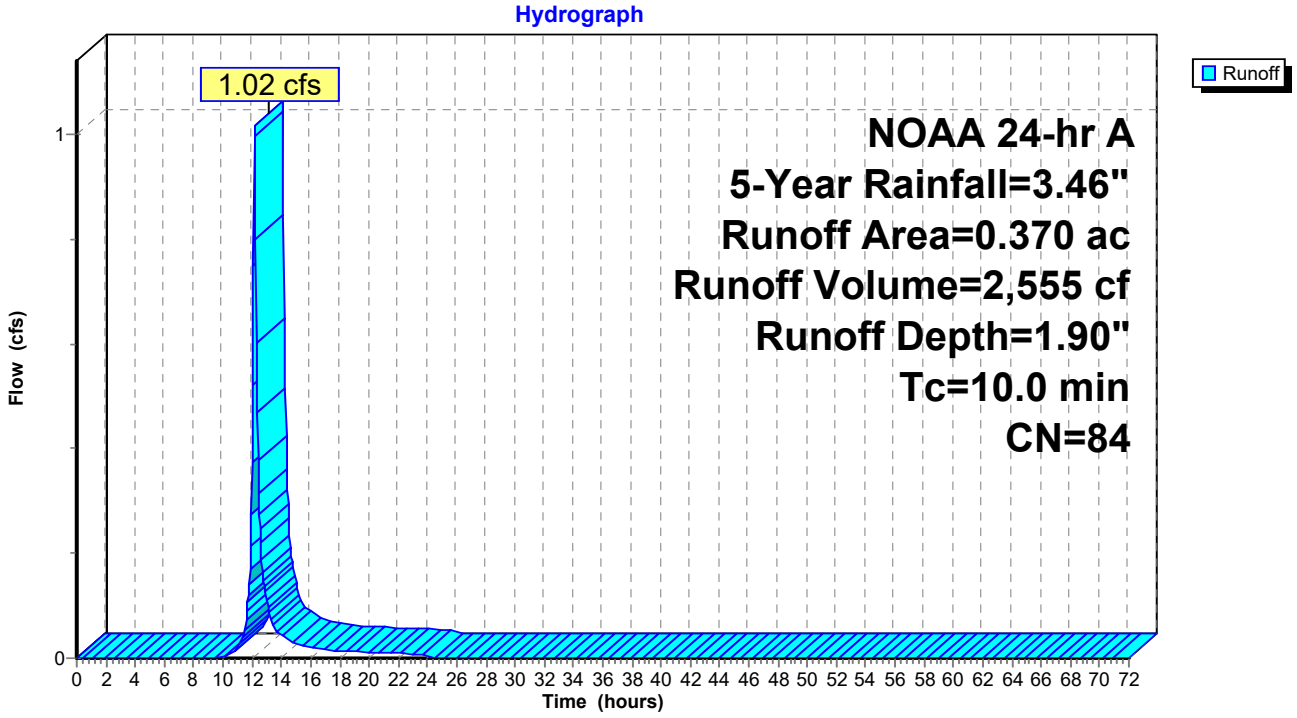
Runoff = 1.02 cfs @ 12.18 hrs, Volume= 2,555 cf, Depth= 1.90"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

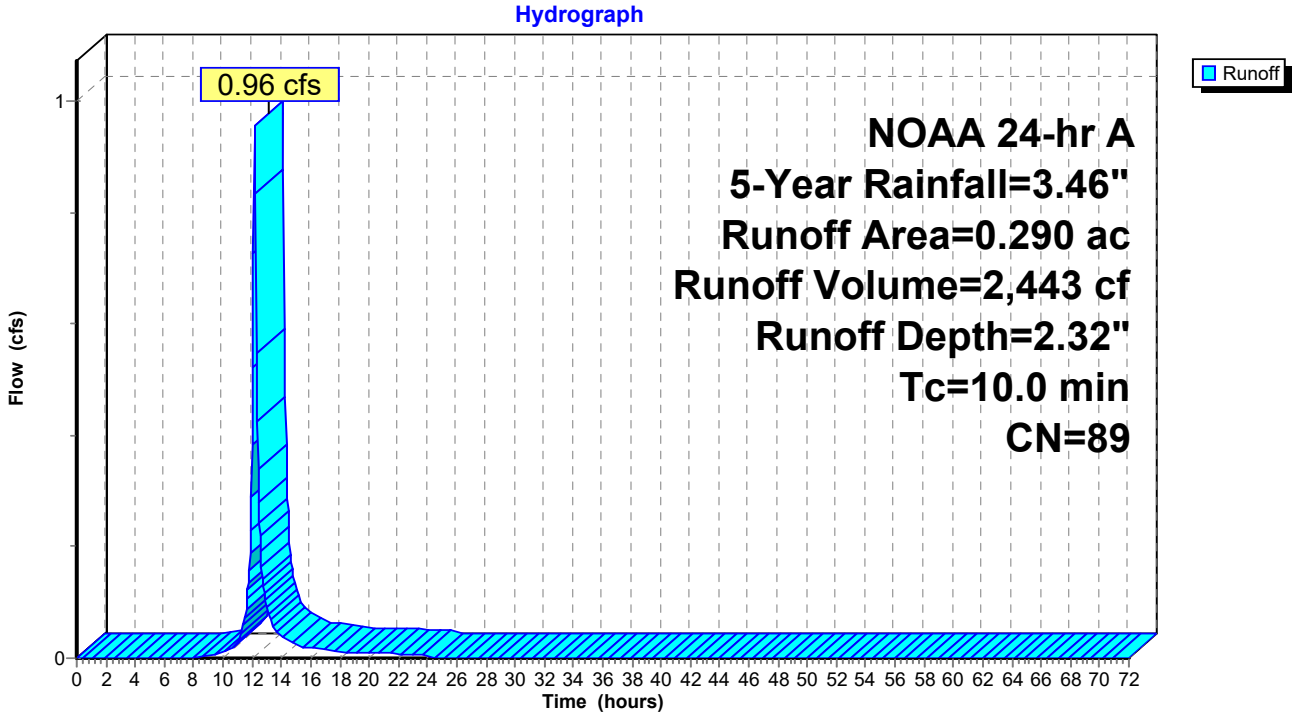
Runoff = 0.96 cfs @ 12.17 hrs, Volume= 2,443 cf, Depth= 2.32"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

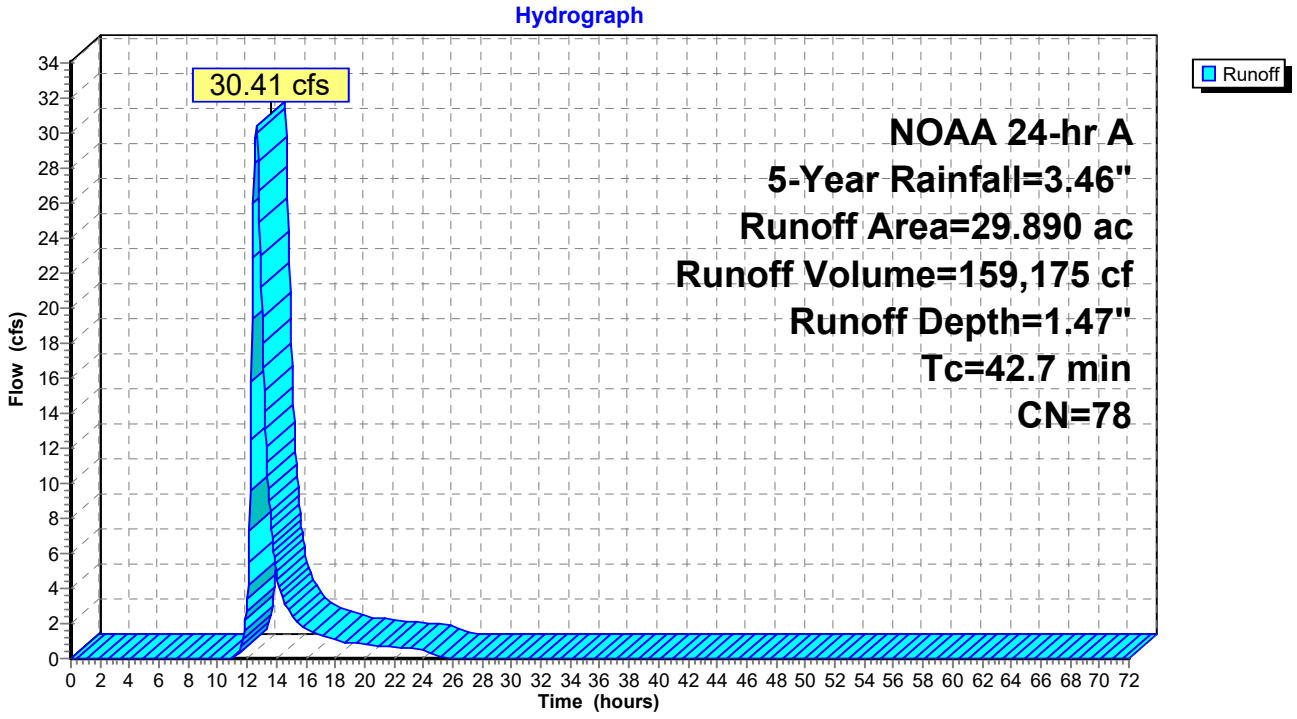
Runoff = 30.41 cfs @ 12.62 hrs, Volume= 159,175 cf, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.98" for 5-Year event
Inflow = 7.74 cfs @ 12.18 hrs, Volume= 19,561 cf
Outflow = 3.31 cfs @ 12.37 hrs, Volume= 19,283 cf, Atten= 57%, Lag= 11.5 min
Primary = 3.31 cfs @ 12.37 hrs, Volume= 19,283 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.09' @ 12.37 hrs Surf.Area= 9,170 sf Storage= 7,008 cf

Plug-Flow detention time= 165.4 min calculated for 19,270 cf (99% of inflow)
Center-of-Mass det. time= 158.6 min (964.5 - 805.9)

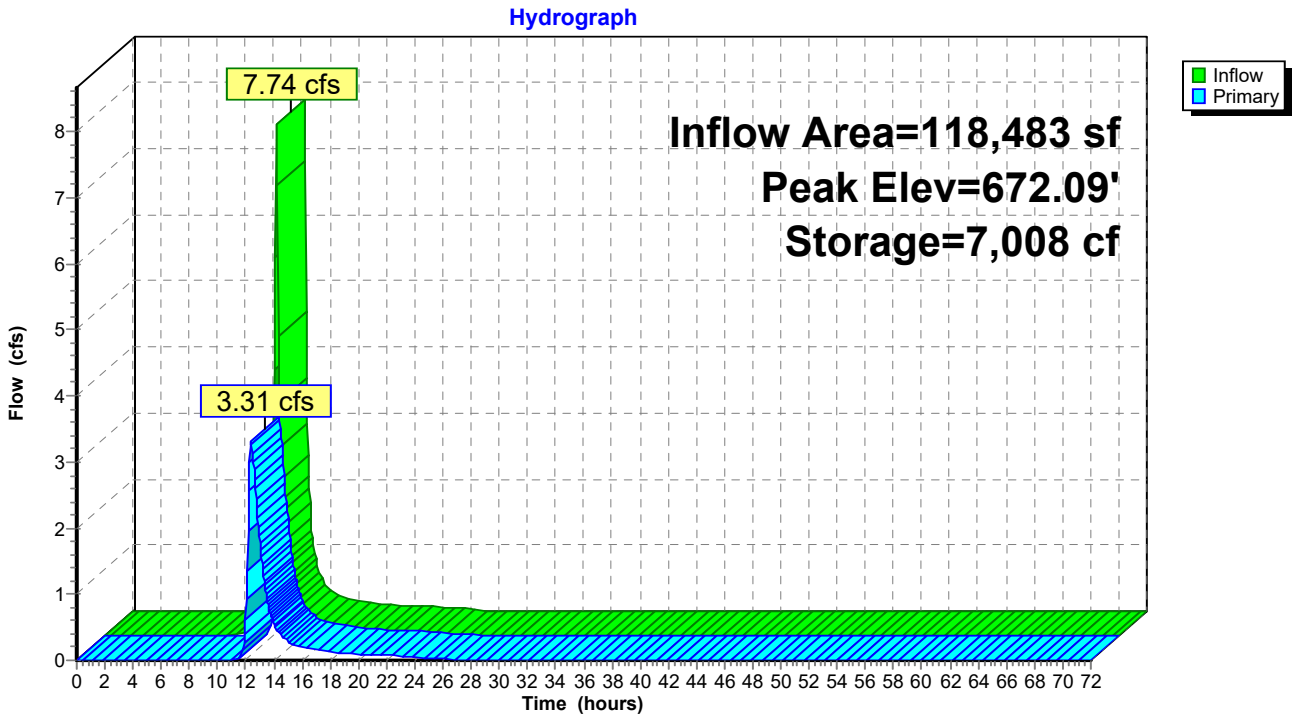
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.30 cfs @ 12.37 hrs HW=672.08' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 3.30 cfs of 15.76 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.92 fps)
  └─**3=Orifice/Grate** (Orifice Controls 3.29 cfs @ 3.31 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 2.21" for 5-Year event
Inflow = 71.45 cfs @ 12.43 hrs, Volume= 304,807 cf
Outflow = 6.90 cfs @ 13.84 hrs, Volume= 283,373 cf, Atten= 90%, Lag= 84.8 min
Primary = 6.90 cfs @ 13.84 hrs, Volume= 283,373 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 706.08' @ 13.84 hrs Surf.Area= 97,771 sf Storage= 203,191 cf

Plug-Flow detention time= 877.2 min calculated for 283,176 cf (93% of inflow)
Center-of-Mass det. time= 843.6 min (1,662.0 - 818.4)

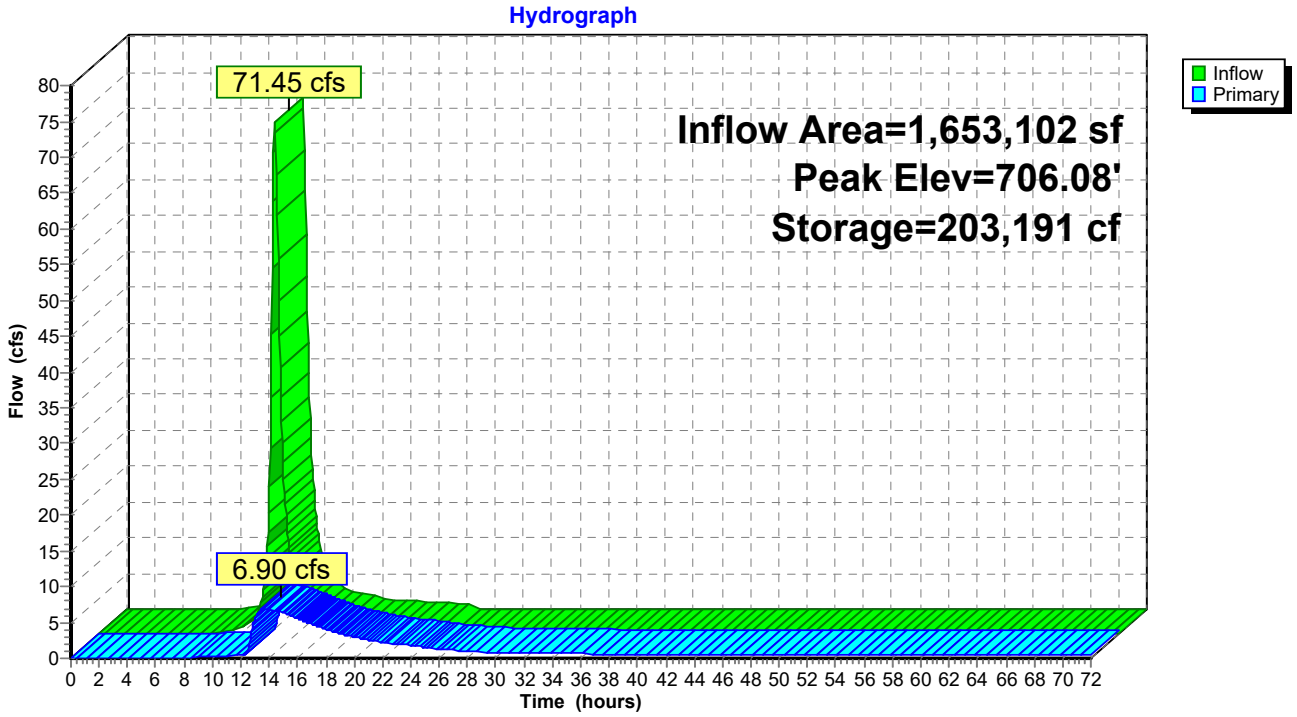
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.90 cfs @ 13.84 hrs HW=706.08' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 6.90 cfs of 46.25 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.71 cfs @ 10.70 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 6.19 cfs @ 3.85 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

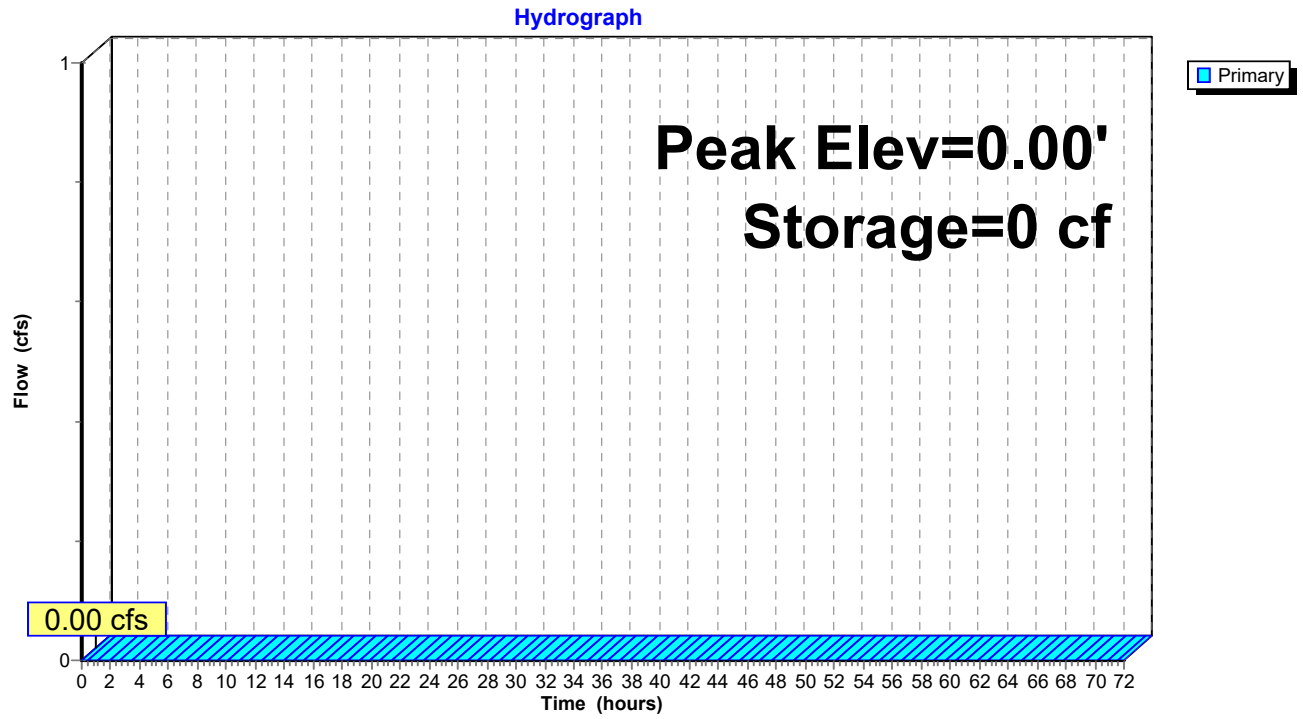
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

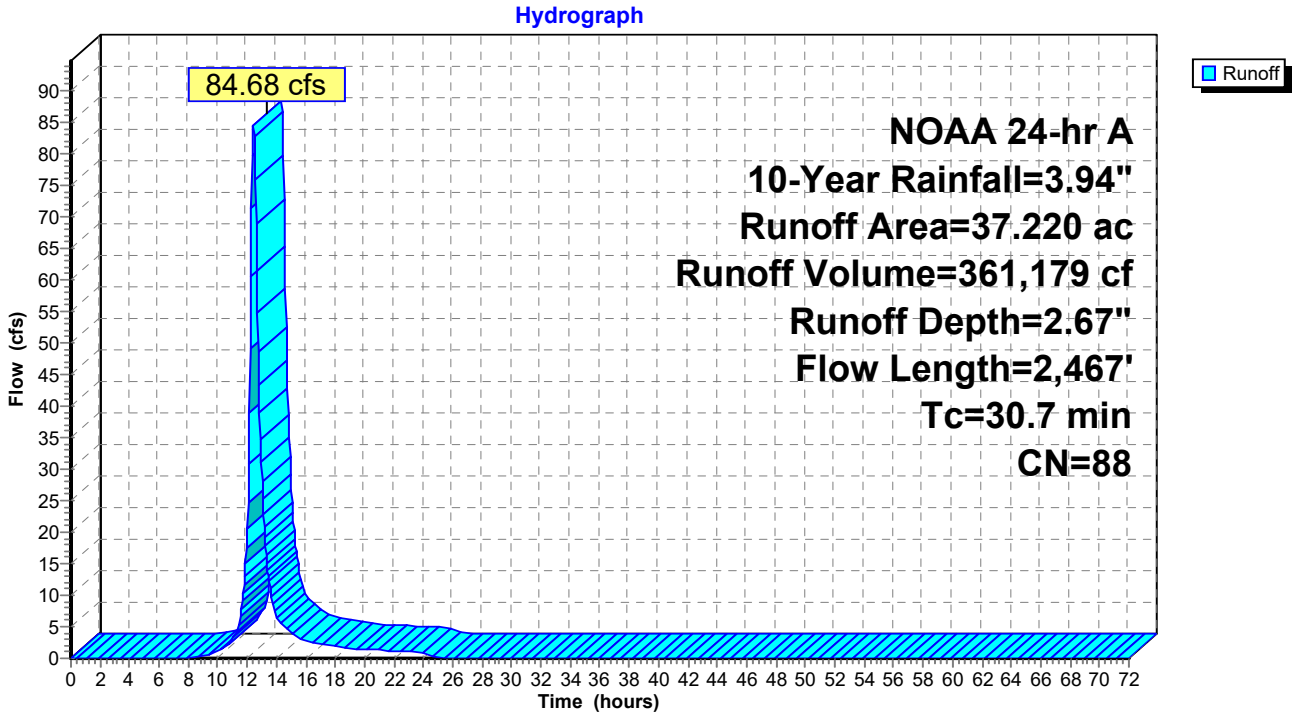
Runoff = 84.68 cfs @ 12.43 hrs, Volume= 361,179 cf, Depth= 2.67"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



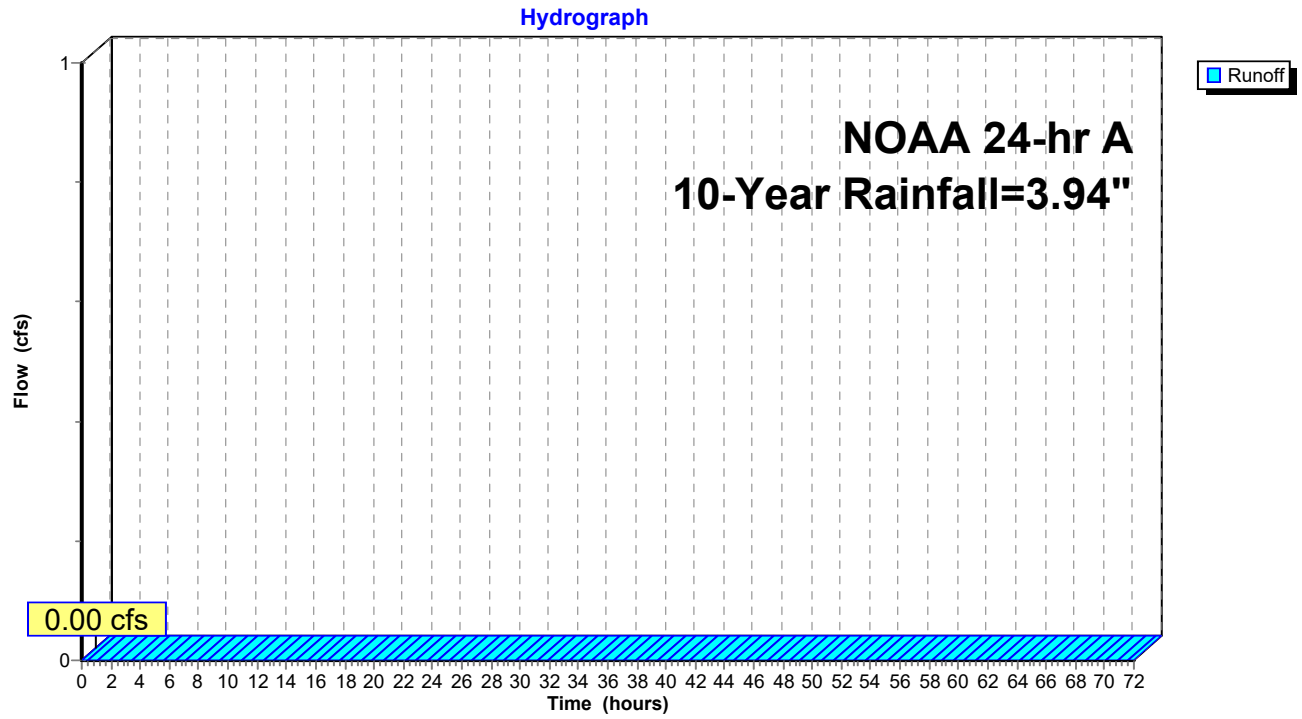
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

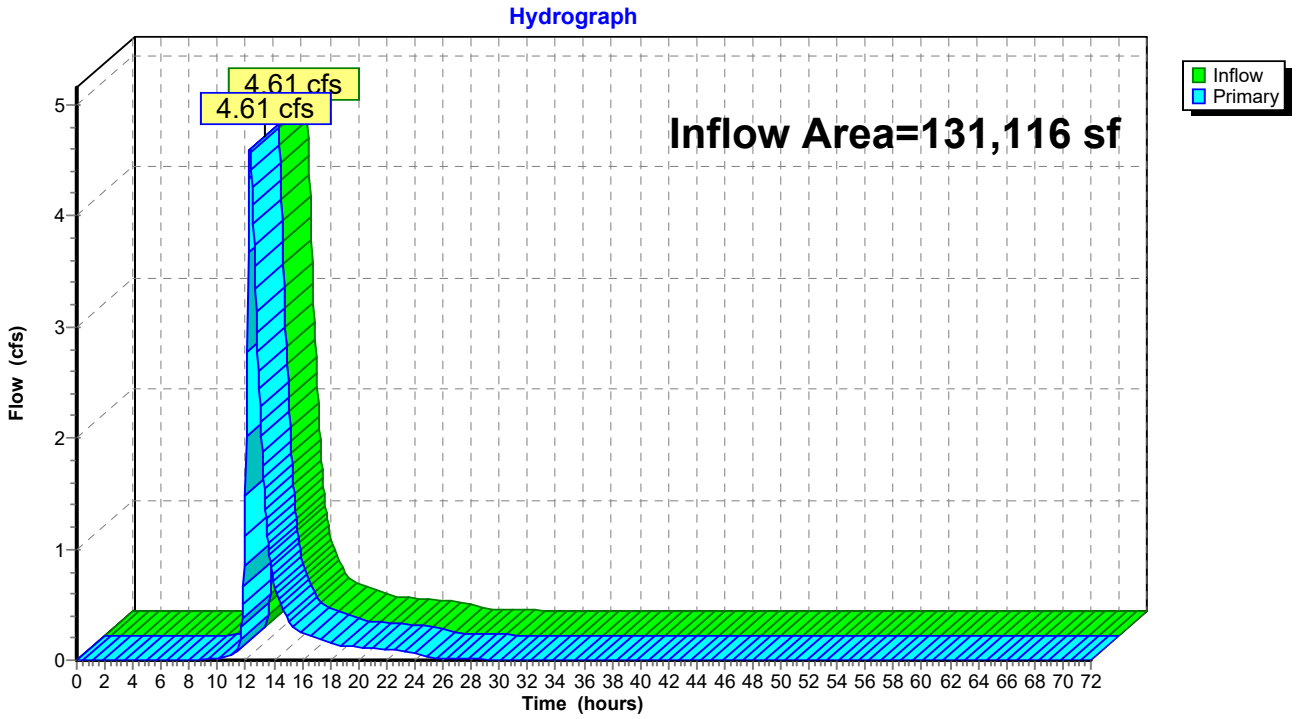


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 2.41" for 10-Year event
Inflow = 4.61 cfs @ 12.29 hrs, Volume= 26,346 cf
Primary = 4.61 cfs @ 12.29 hrs, Volume= 26,346 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

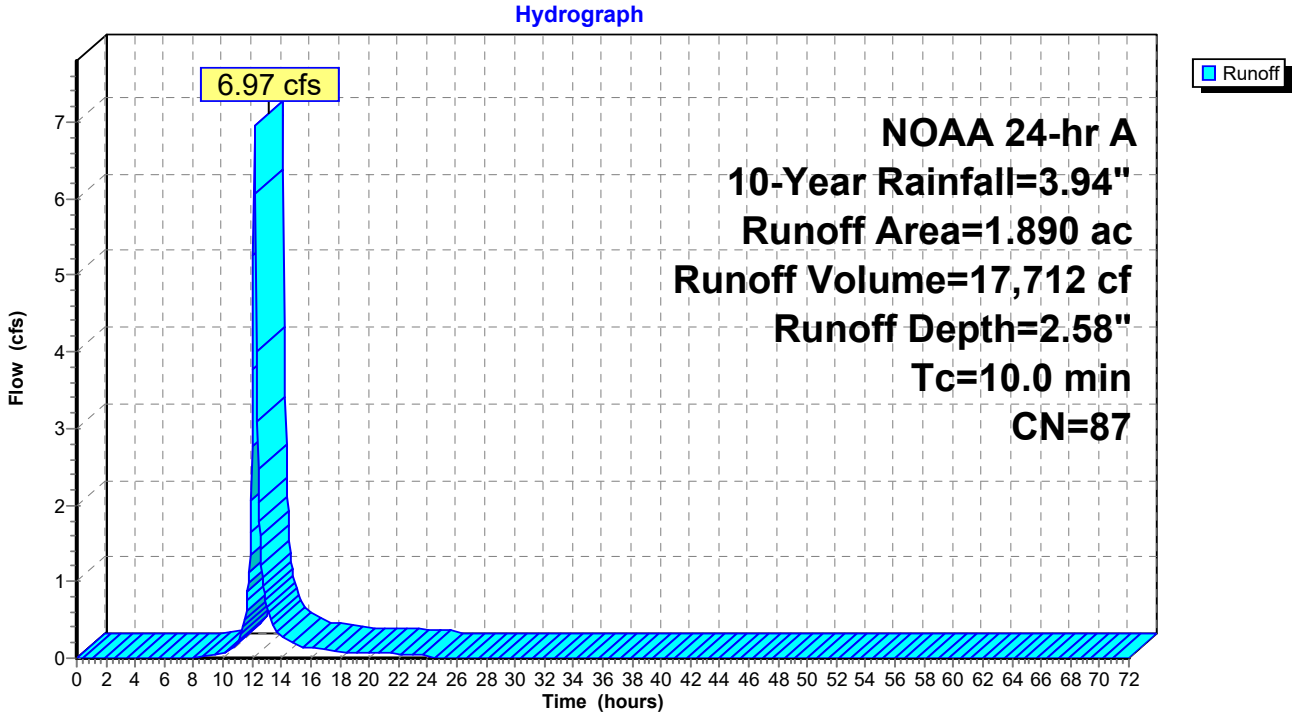
Runoff = 6.97 cfs @ 12.17 hrs, Volume= 17,712 cf, Depth= 2.58"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

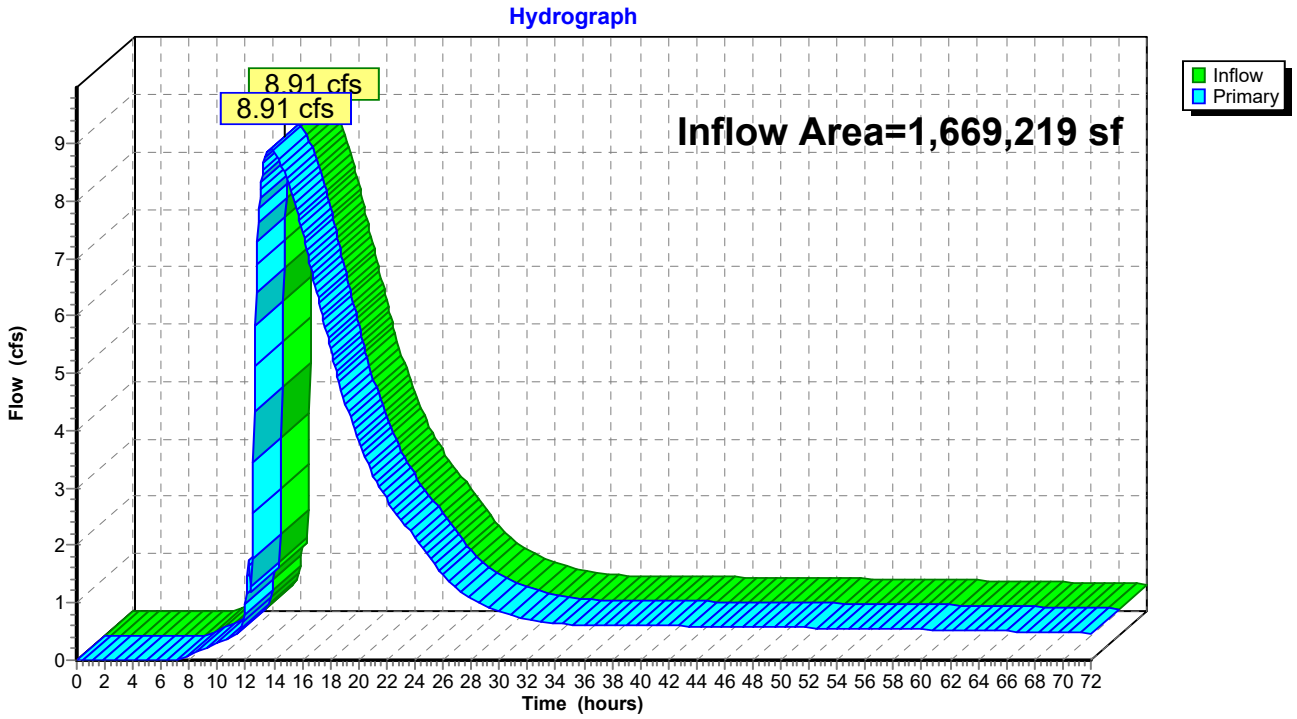


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 2.48" for 10-Year event
Inflow = 8.91 cfs @ 13.74 hrs, Volume= 345,533 cf
Primary = 8.91 cfs @ 13.74 hrs, Volume= 345,533 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

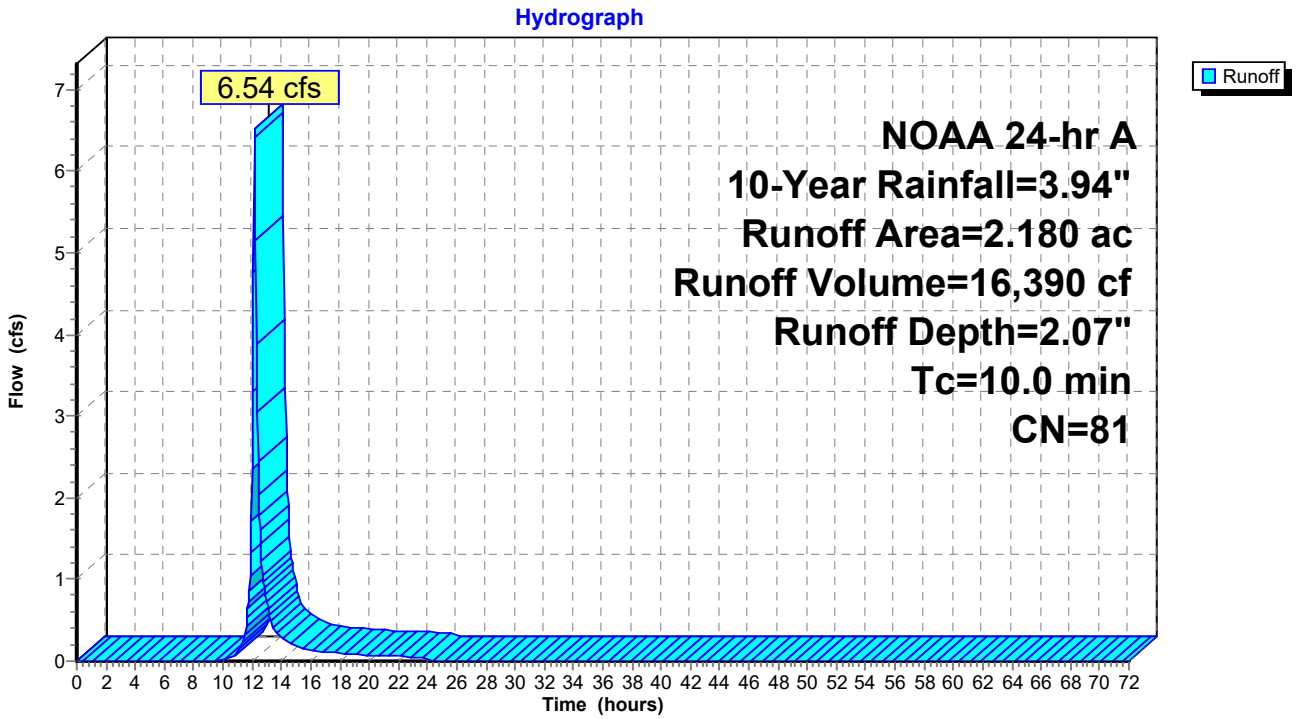
Runoff = 6.54 cfs @ 12.18 hrs, Volume= 16,390 cf, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

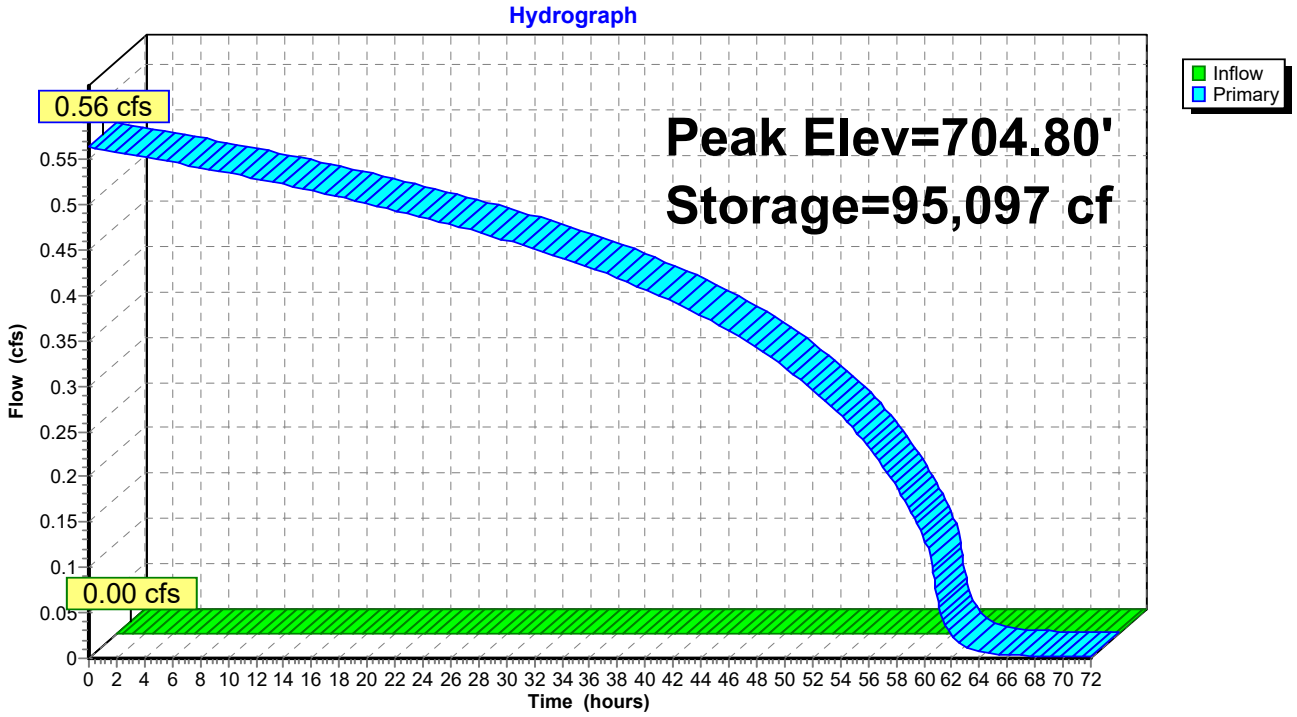
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

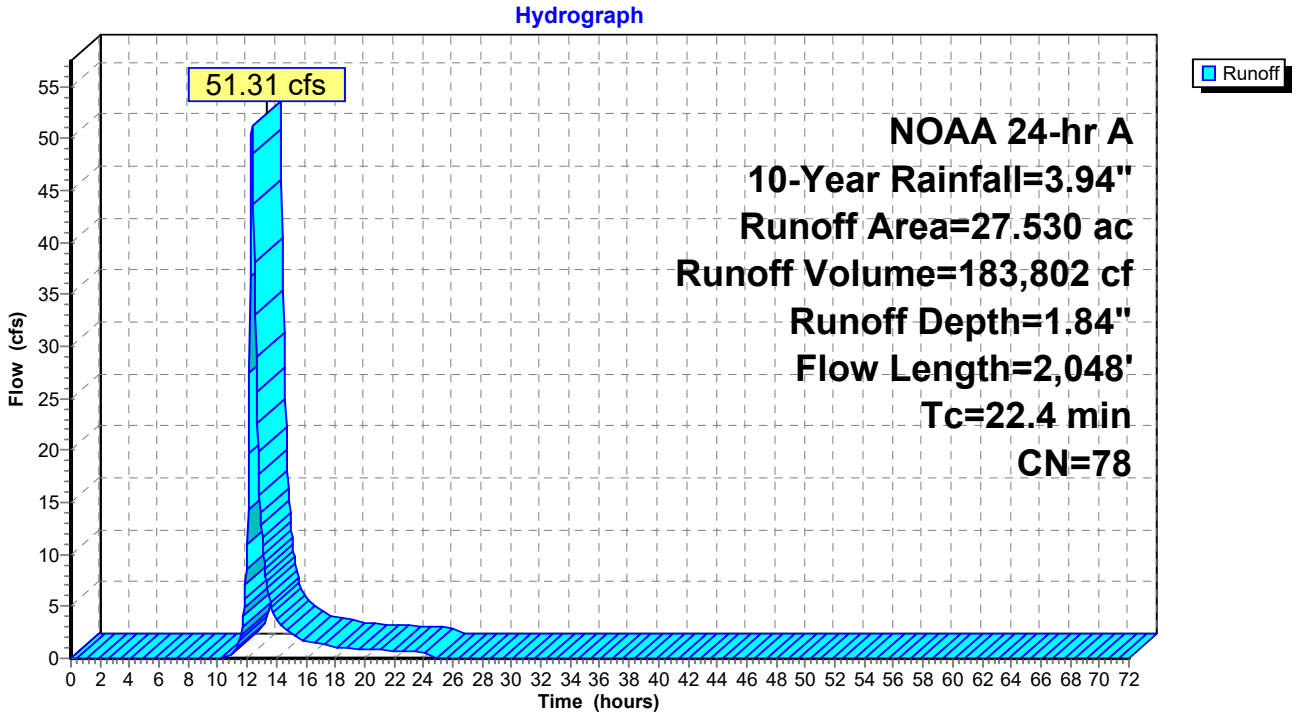
Runoff = 51.31 cfs @ 12.34 hrs, Volume= 183,802 cf, Depth= 1.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

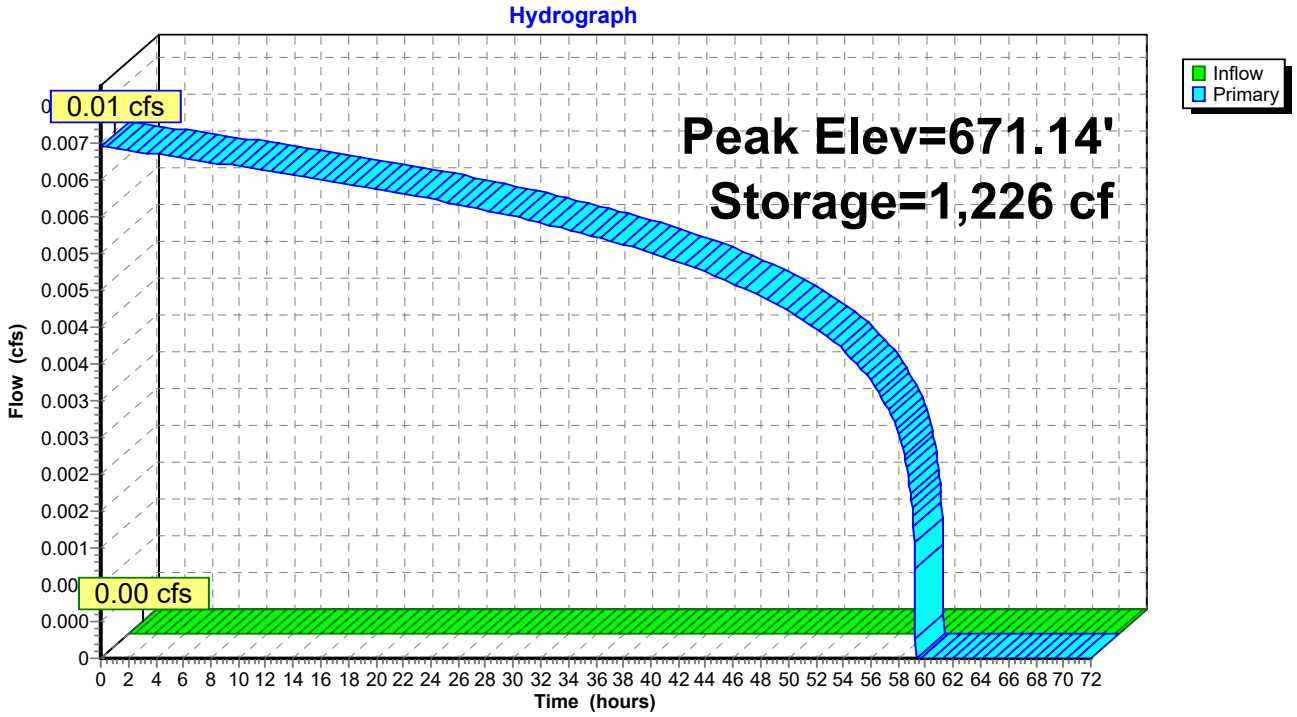
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

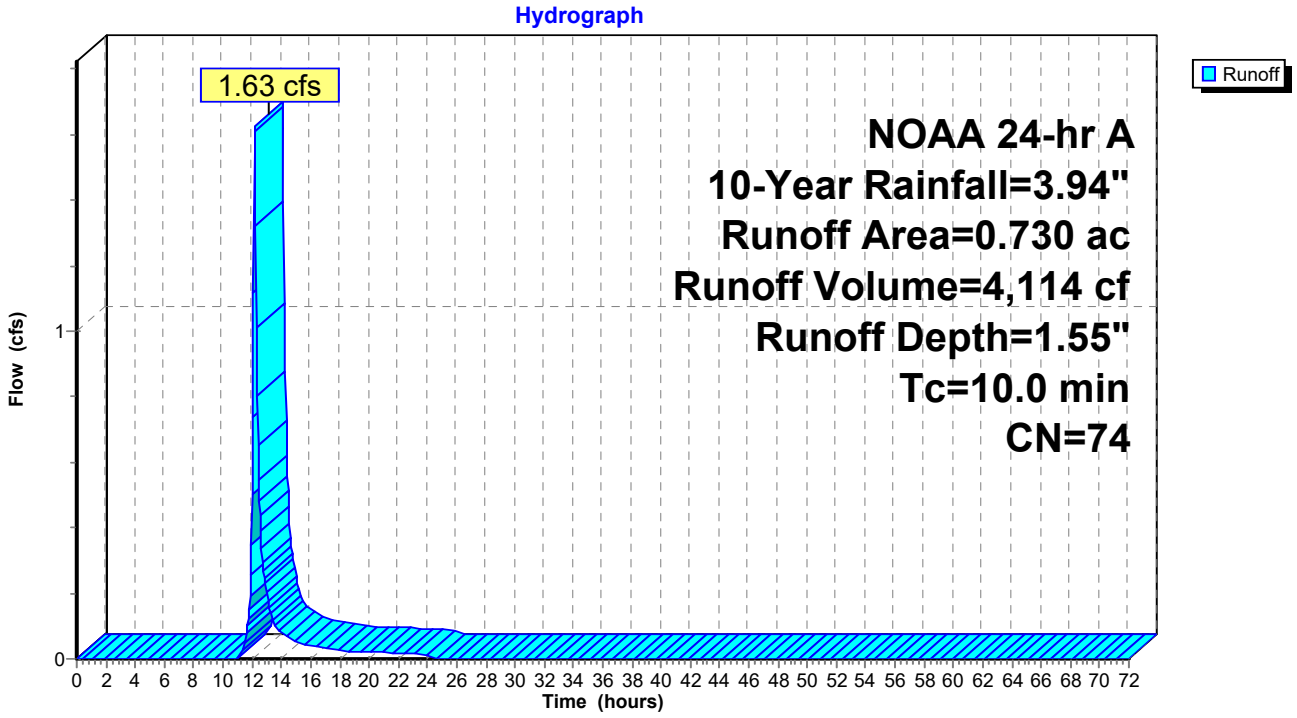
Runoff = 1.63 cfs @ 12.18 hrs, Volume= 4,114 cf, Depth= 1.55"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

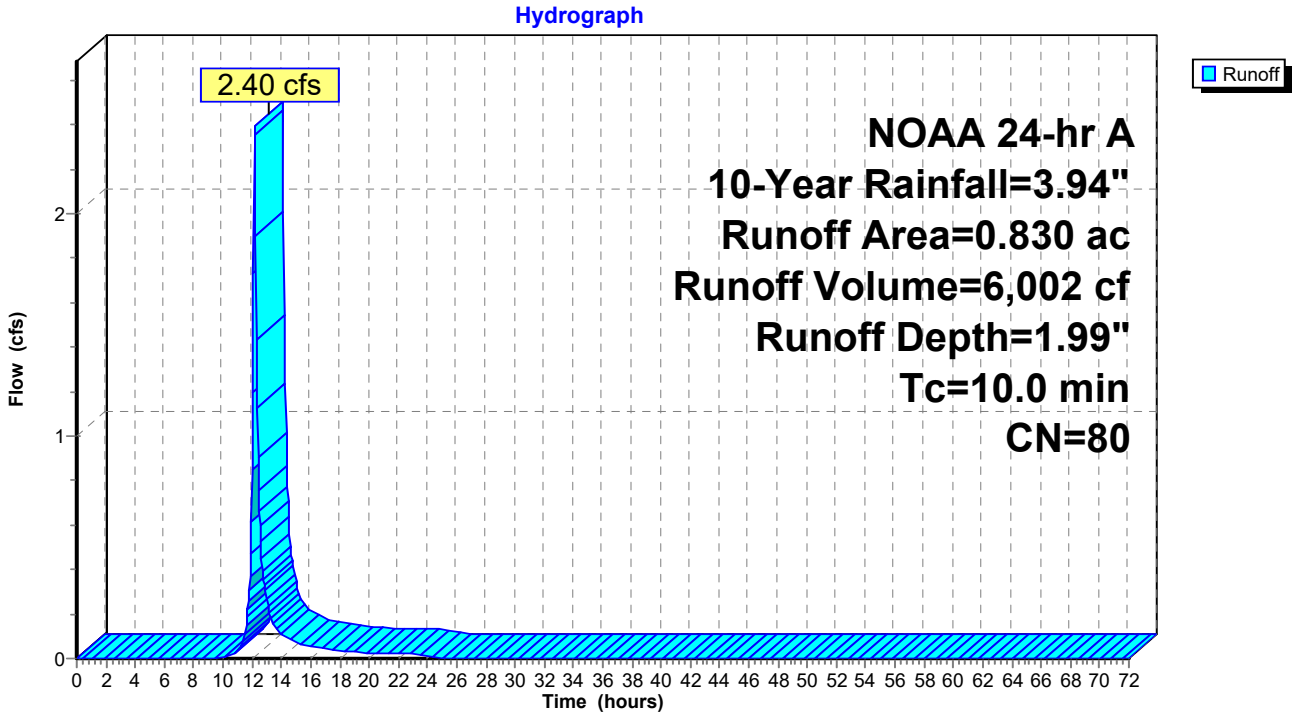
Runoff = 2.40 cfs @ 12.18 hrs, Volume= 6,002 cf, Depth= 1.99"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

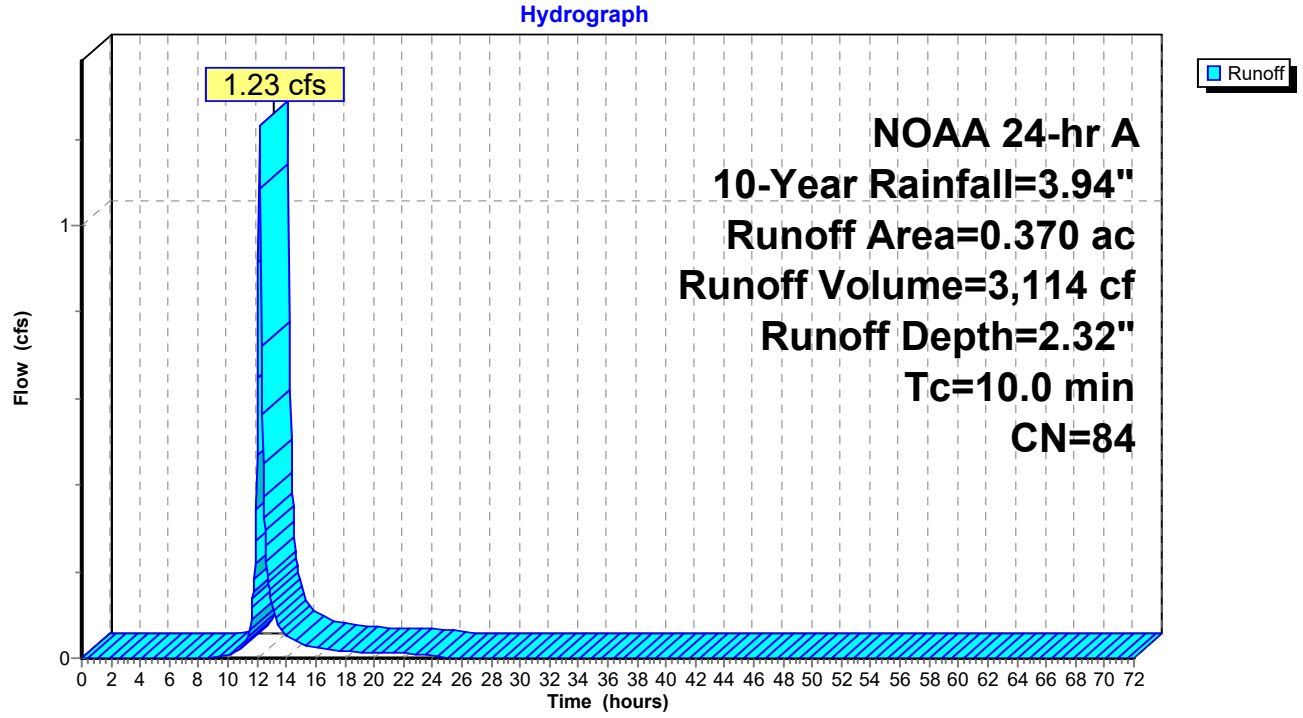
Runoff = 1.23 cfs @ 12.18 hrs, Volume= 3,114 cf, Depth= 2.32"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

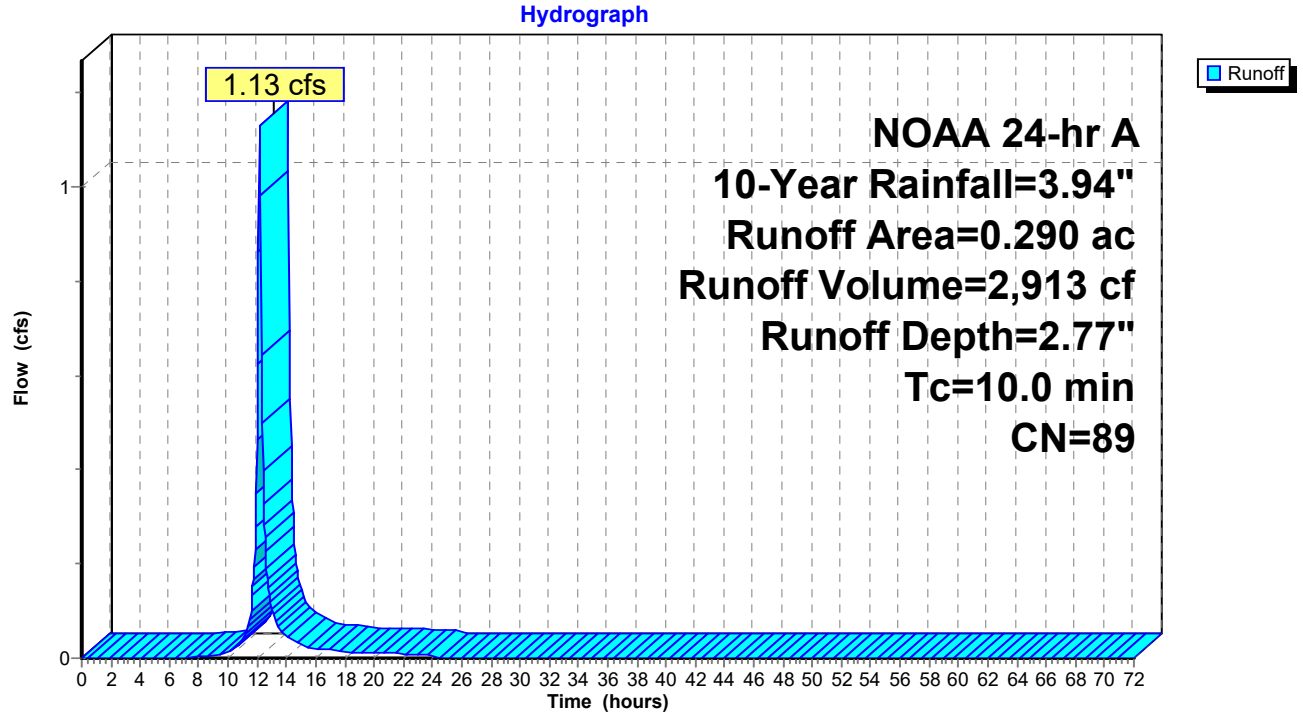
Runoff = 1.13 cfs @ 12.17 hrs, Volume= 2,913 cf, Depth= 2.77"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

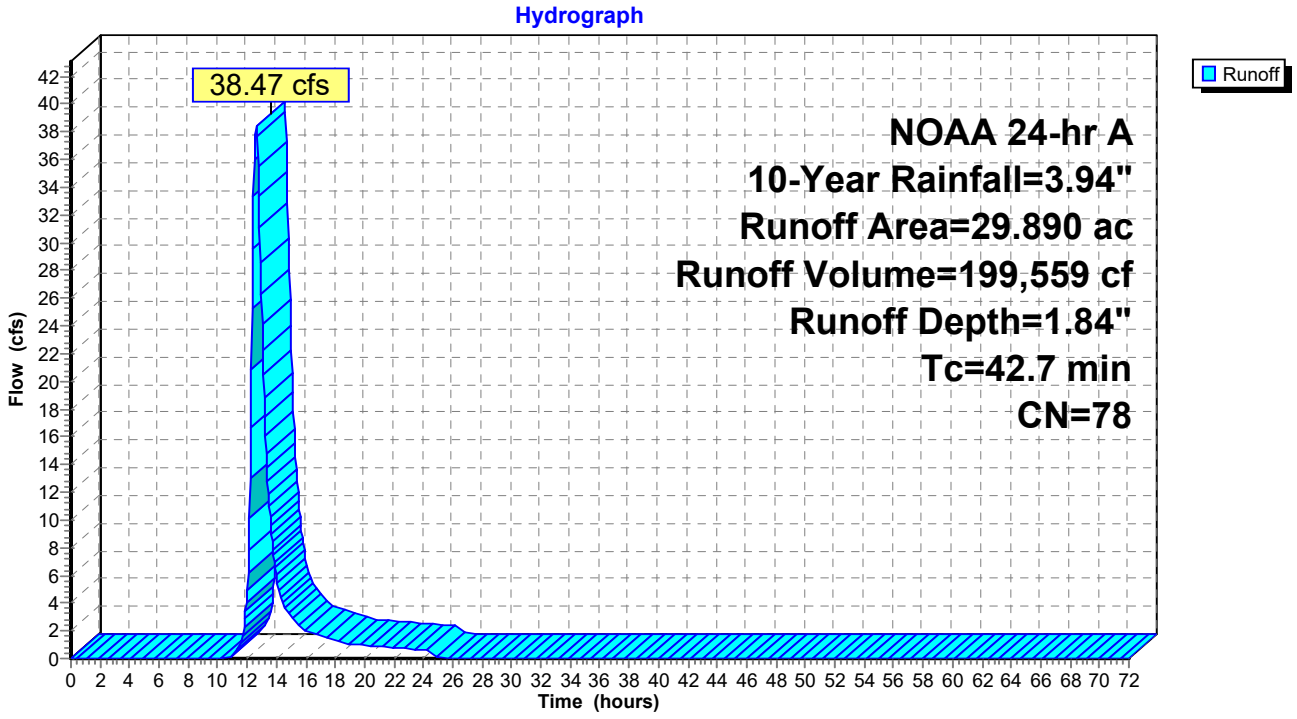
Runoff = 38.47 cfs @ 12.61 hrs, Volume= 199,559 cf, Depth= 1.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 2.40" for 10-Year event
Inflow = 9.34 cfs @ 12.18 hrs, Volume= 23,714 cf
Outflow = 4.04 cfs @ 12.36 hrs, Volume= 23,434 cf, Atten= 57%, Lag= 11.3 min
Primary = 4.04 cfs @ 12.36 hrs, Volume= 23,434 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.23' @ 12.36 hrs Surf.Area= 9,532 sf Storage= 8,331 cf

Plug-Flow detention time= 144.3 min calculated for 23,434 cf (99% of inflow)
Center-of-Mass det. time= 137.0 min (939.0 - 802.0)

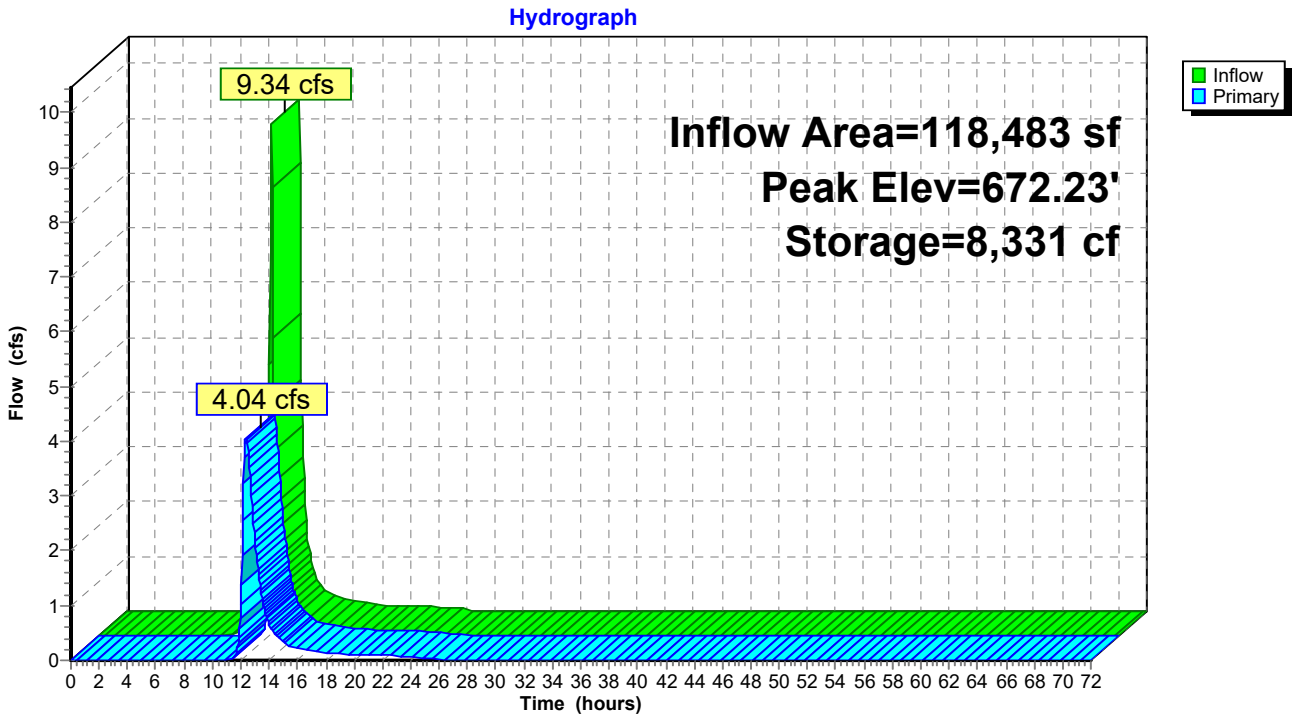
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.03 cfs @ 12.36 hrs HW=672.23' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 4.03 cfs of 16.75 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.15 fps)
  └─**3=Orifice/Grate** (Orifice Controls 4.02 cfs @ 3.55 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 2.65" for 10-Year event
Inflow = 85.27 cfs @ 12.43 hrs, Volume= 365,293 cf
Outflow = 8.85 cfs @ 13.76 hrs, Volume= 342,420 cf, Atten= 90%, Lag= 79.9 min
Primary = 8.85 cfs @ 13.76 hrs, Volume= 342,420 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 706.46' @ 13.76 hrs Surf.Area= 99,805 sf Storage= 240,578 cf

Plug-Flow detention time= 774.8 min calculated for 342,420 cf (94% of inflow)
Center-of-Mass det. time= 742.6 min (1,557.3 - 814.7)

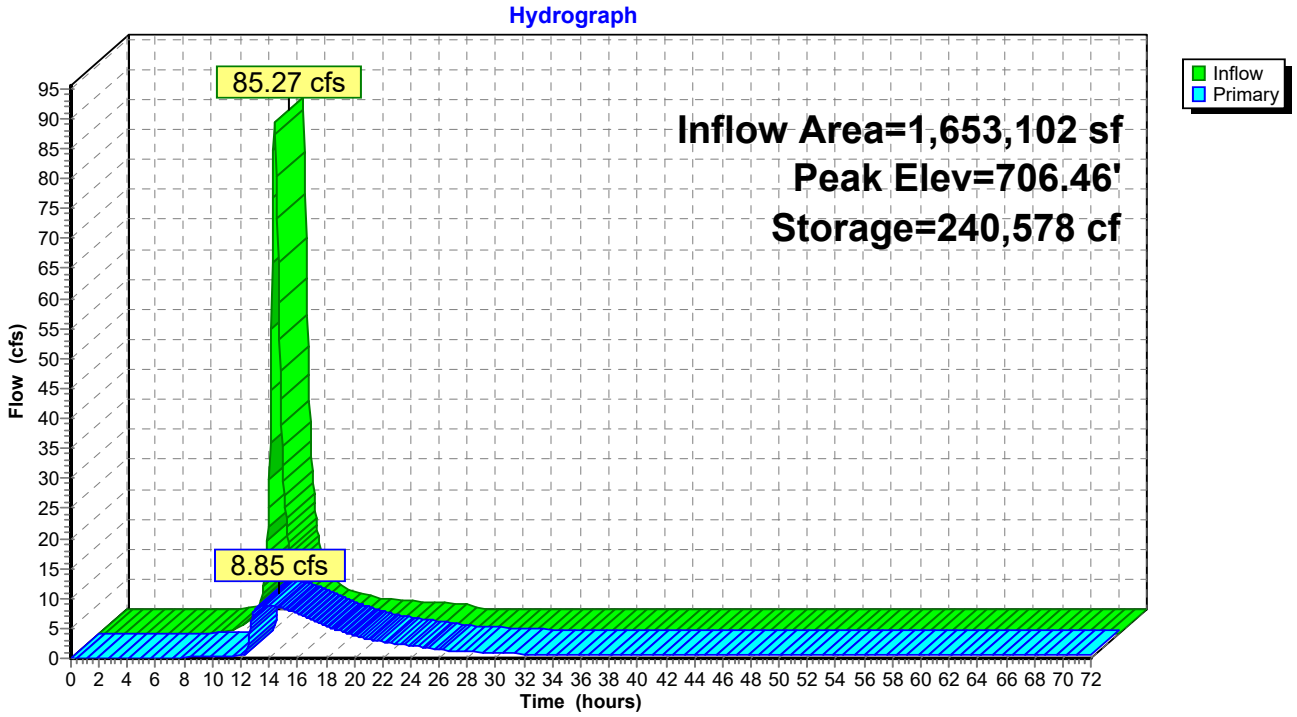
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=8.85 cfs @ 13.76 hrs HW=706.46' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 8.85 cfs of 48.48 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.74 cfs @ 11.10 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 8.11 cfs @ 4.59 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

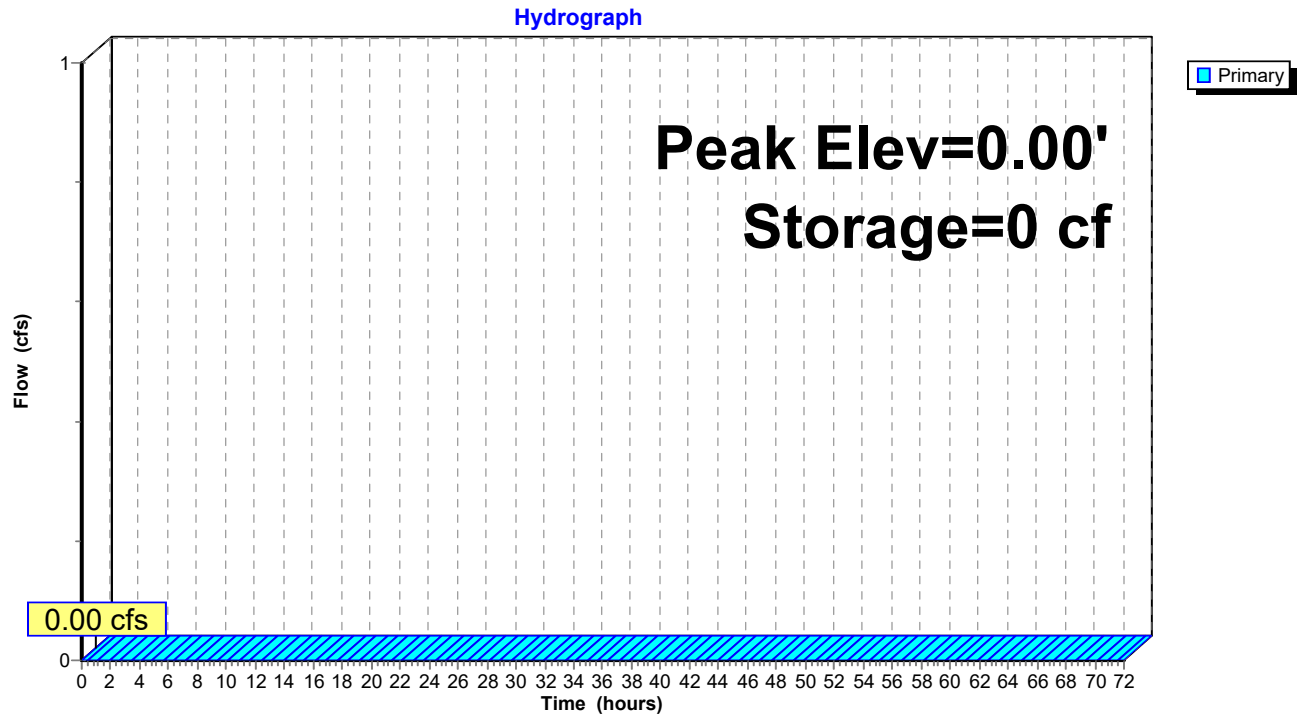
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

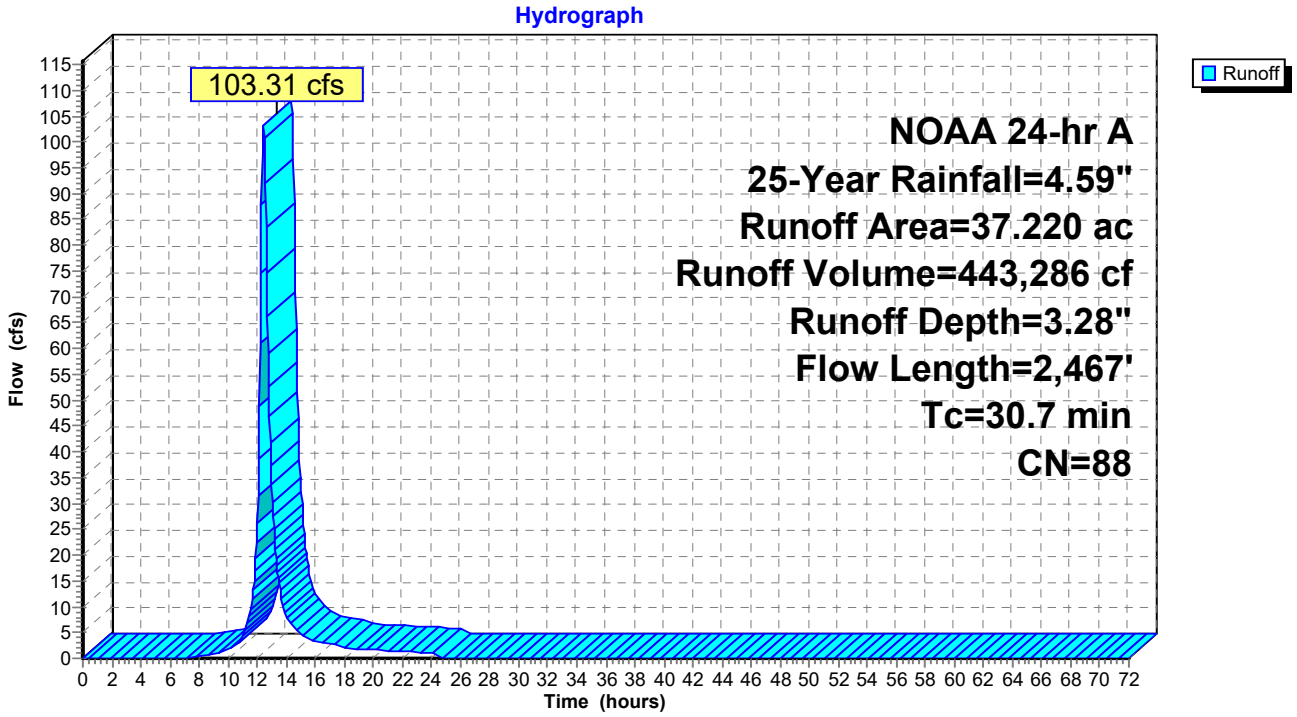
Runoff = 103.31 cfs @ 12.43 hrs, Volume= 443,286 cf, Depth= 3.28"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



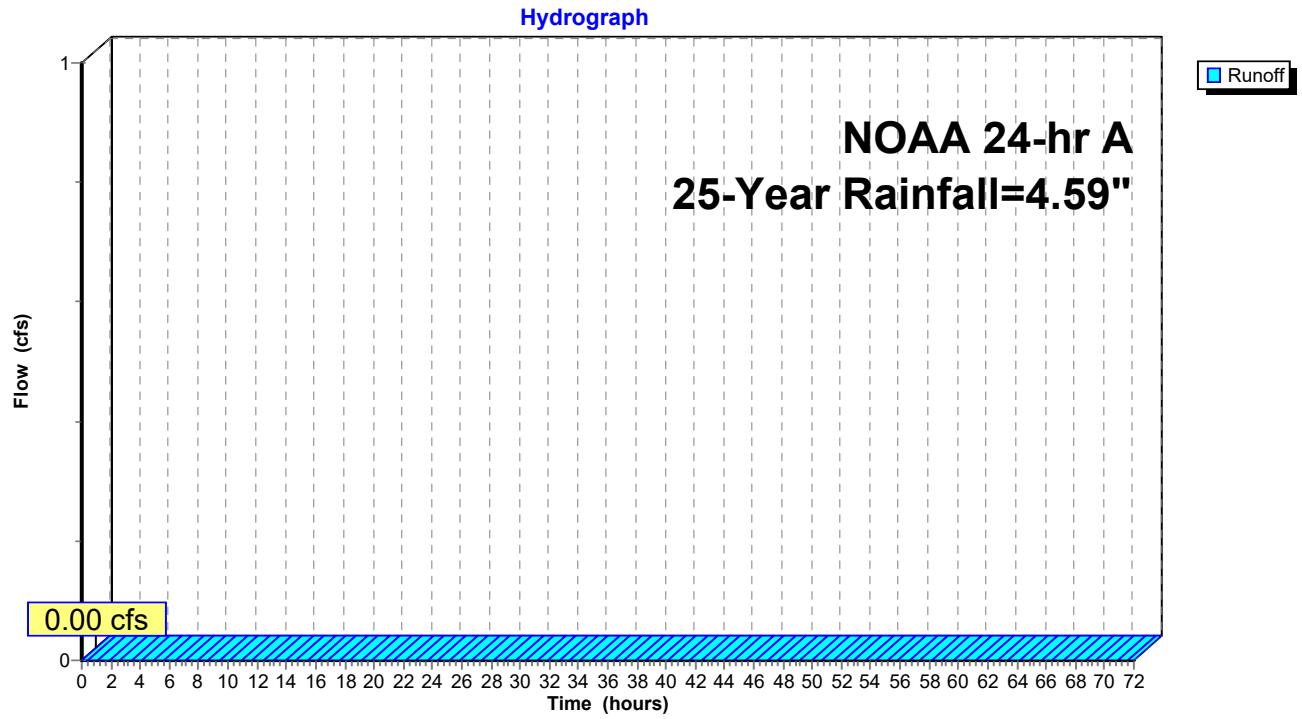
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

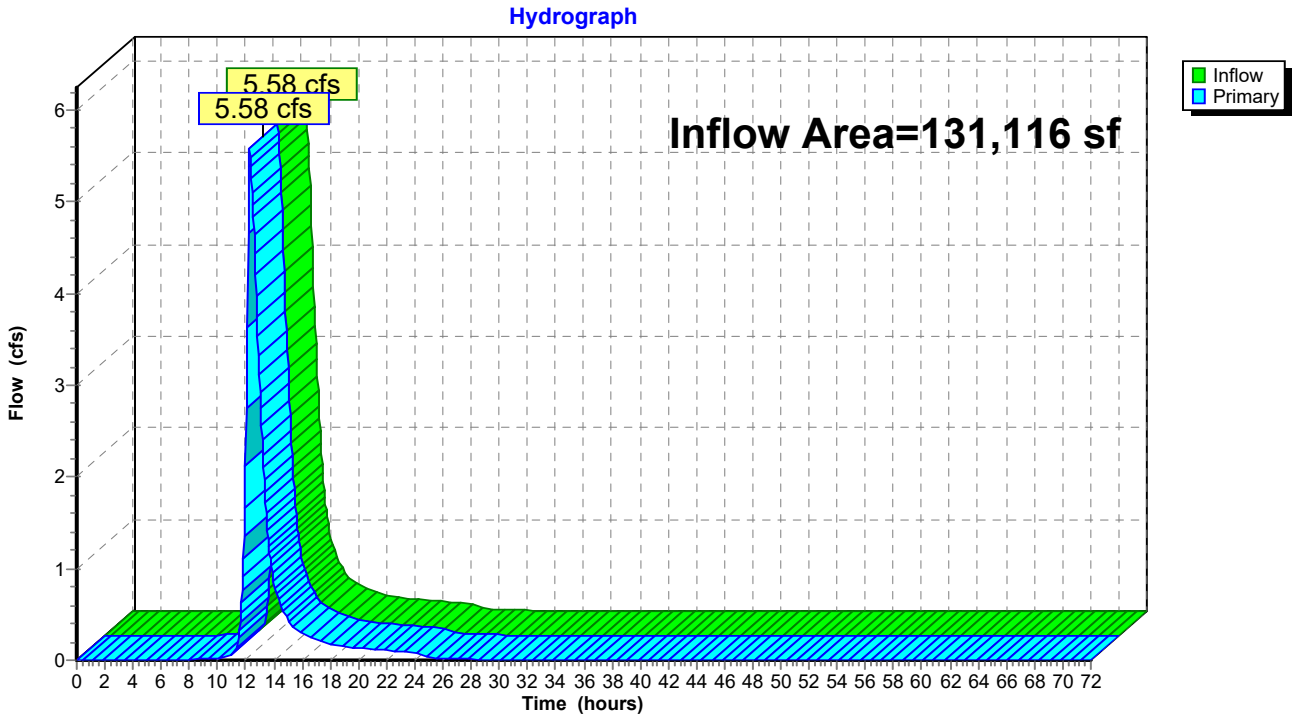


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.00" for 25-Year event
Inflow = 5.58 cfs @ 12.26 hrs, Volume= 32,759 cf
Primary = 5.58 cfs @ 12.26 hrs, Volume= 32,759 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

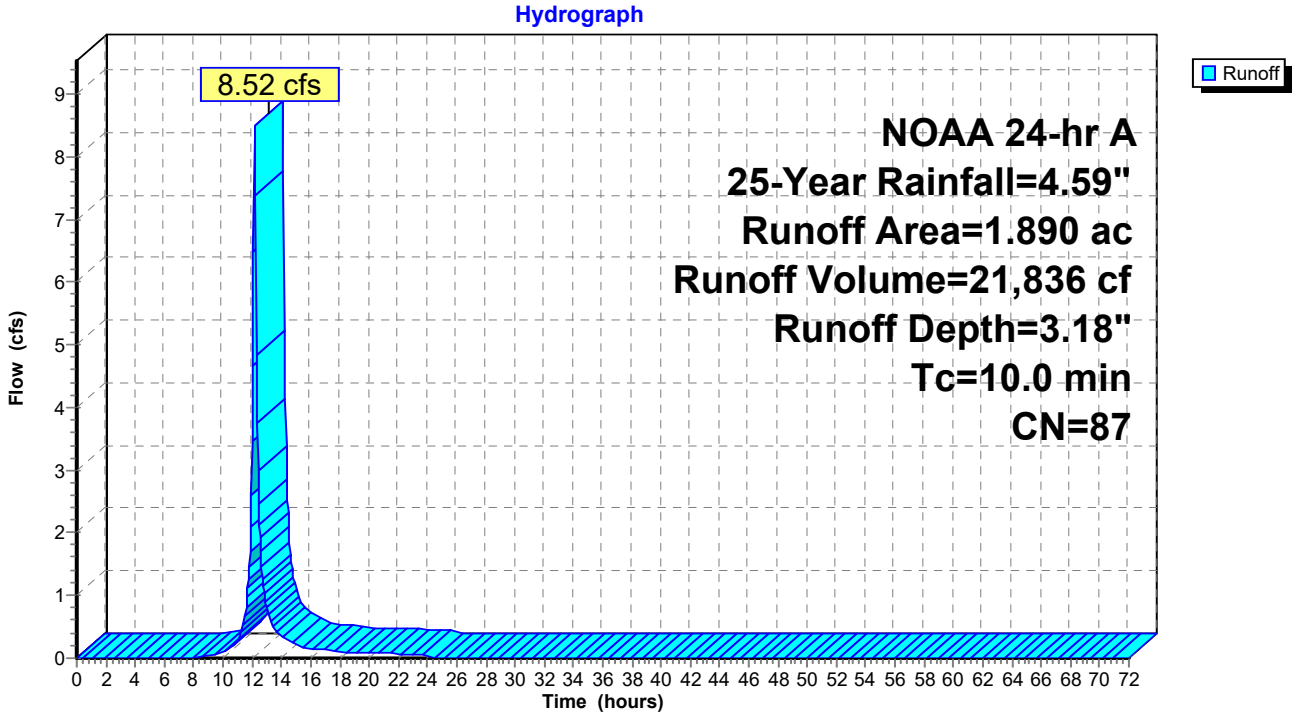
Runoff = 8.52 cfs @ 12.17 hrs, Volume= 21,836 cf, Depth= 3.18"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

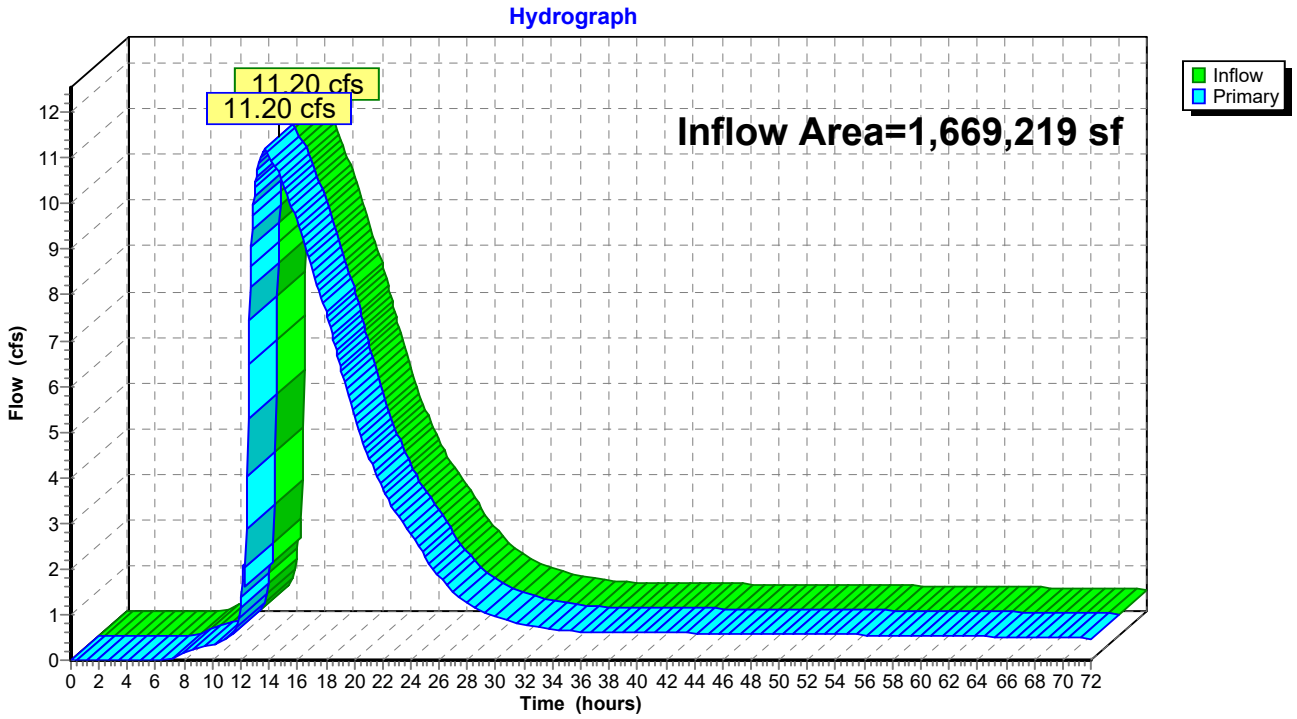


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 3.08" for 25-Year event
Inflow = 11.20 cfs @ 13.71 hrs, Volume= 427,913 cf
Primary = 11.20 cfs @ 13.71 hrs, Volume= 427,913 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

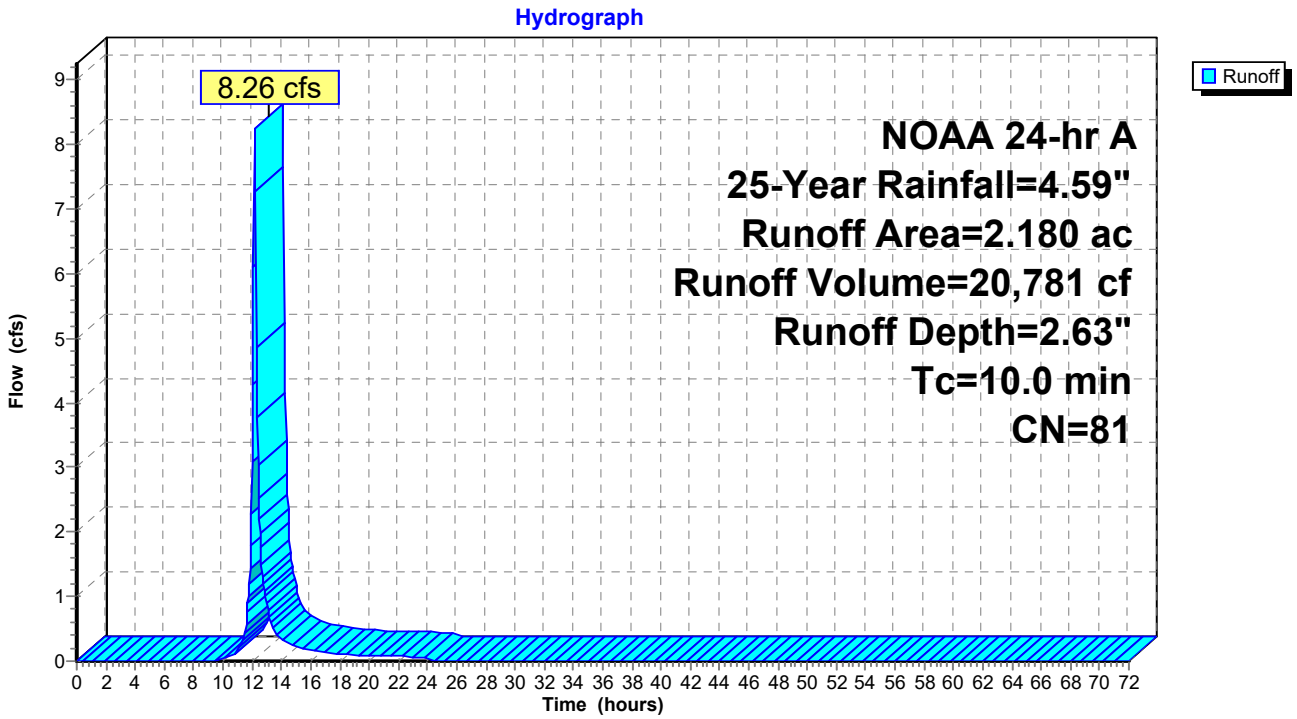
Runoff = 8.26 cfs @ 12.18 hrs, Volume= 20,781 cf, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

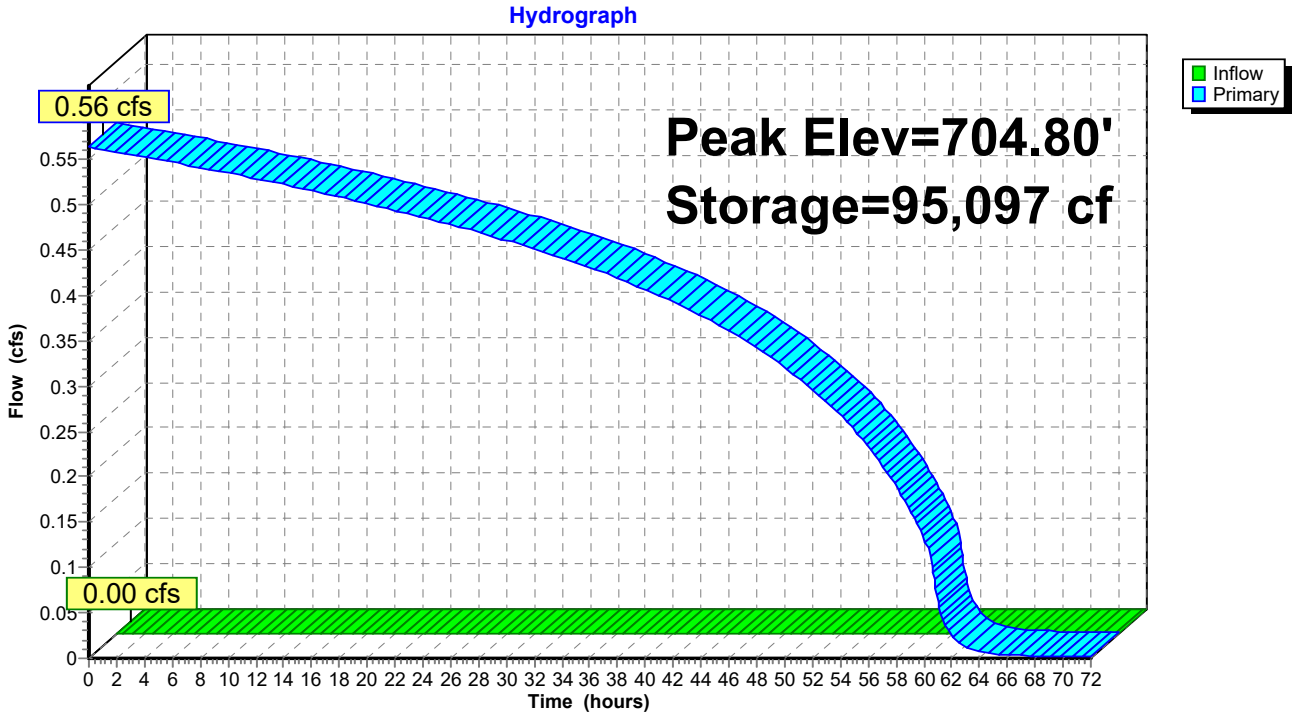
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

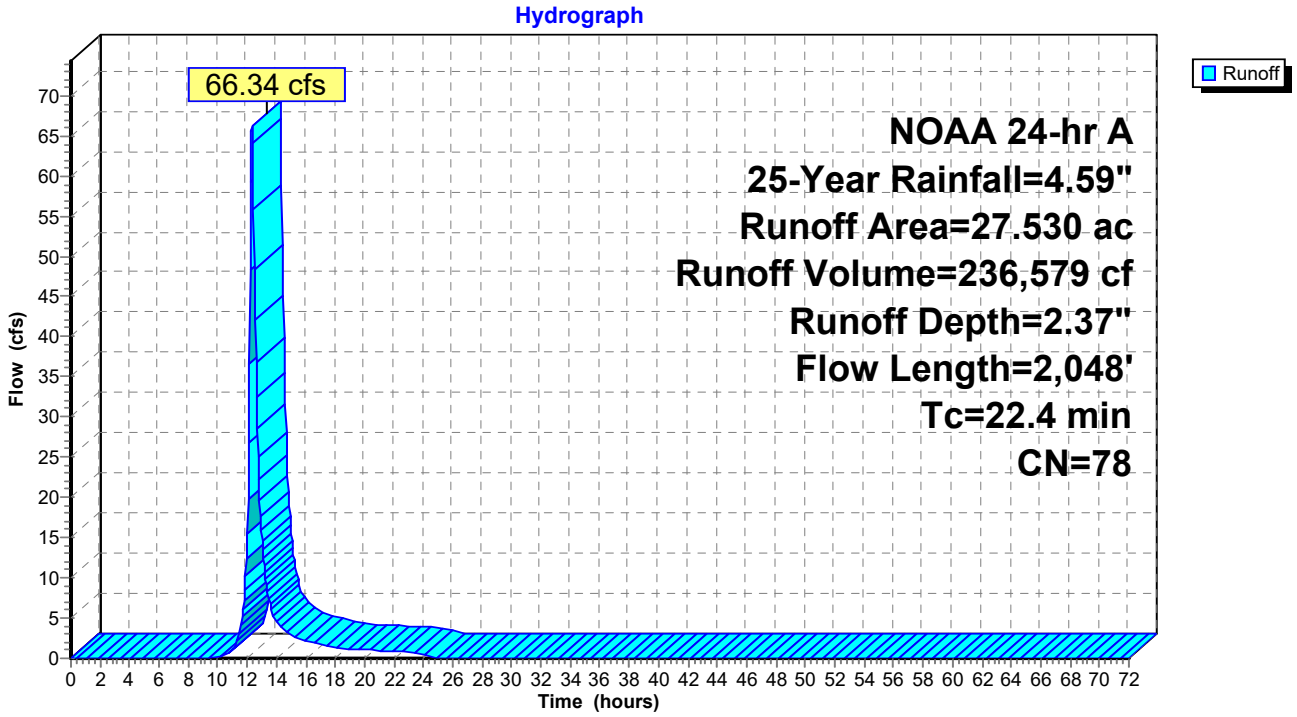
Runoff = 66.34 cfs @ 12.33 hrs, Volume= 236,579 cf, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

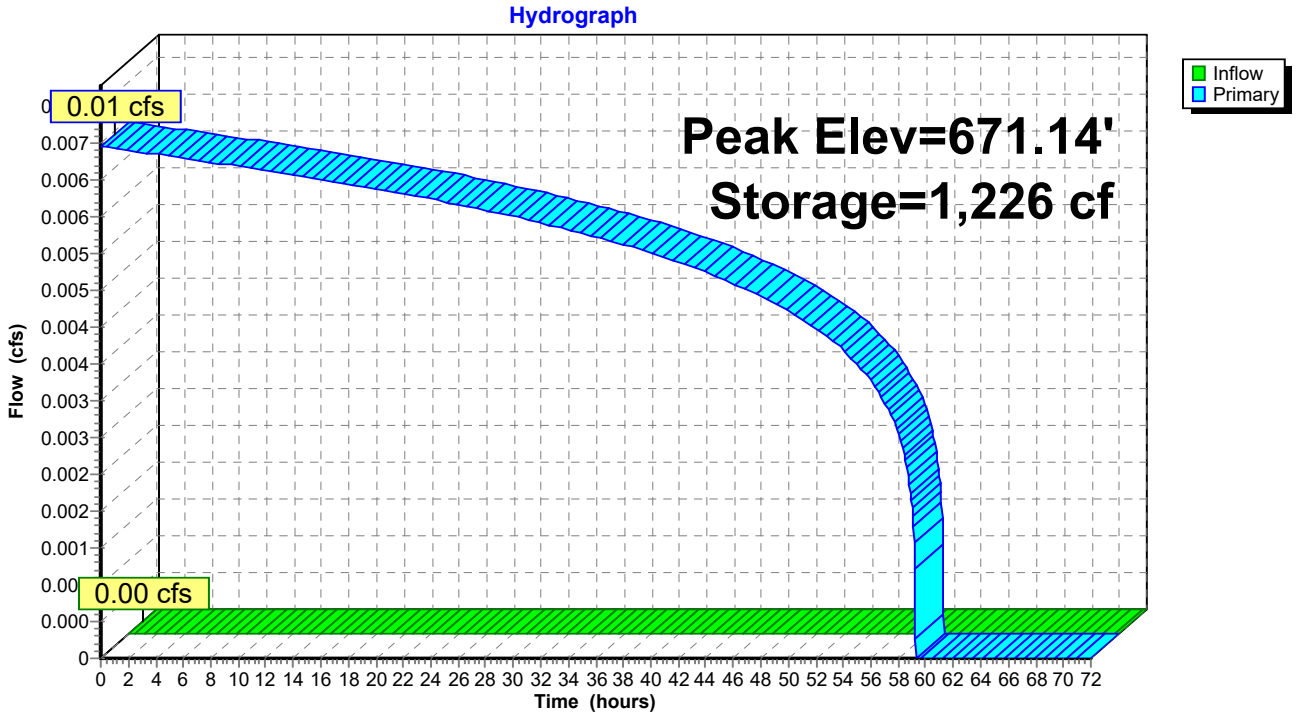
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

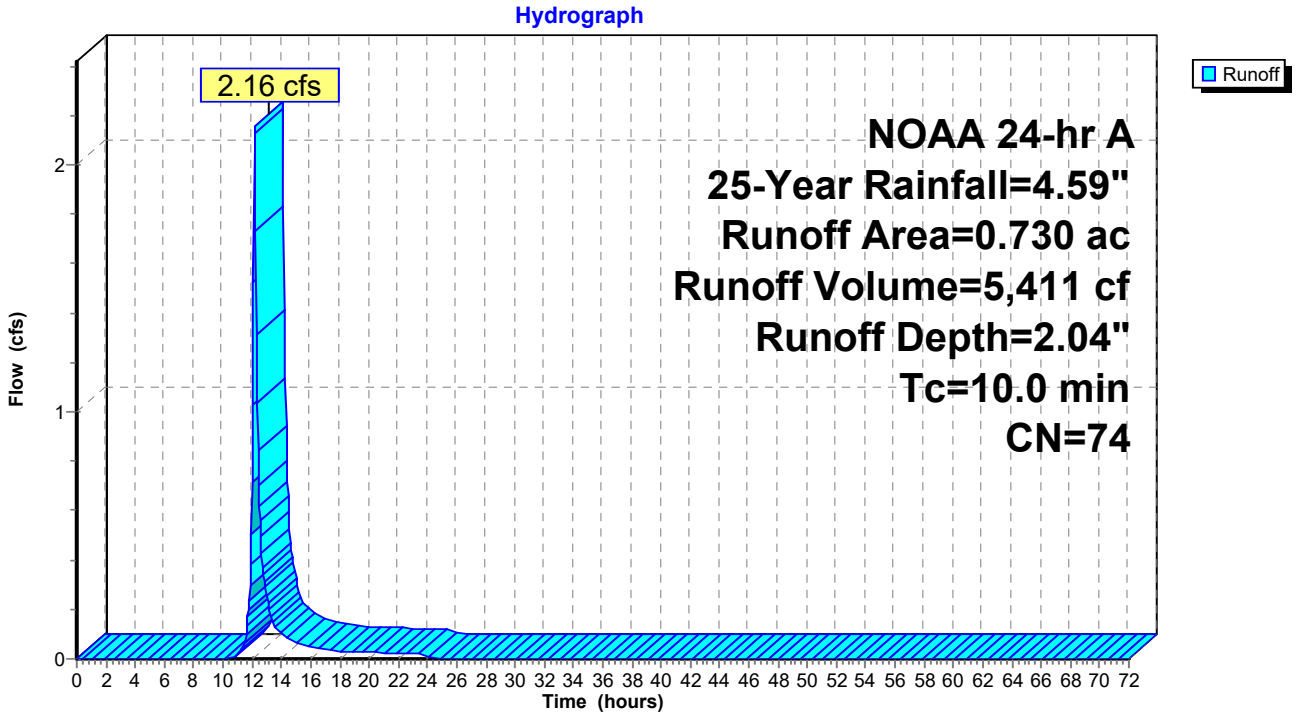
Runoff = 2.16 cfs @ 12.18 hrs, Volume= 5,411 cf, Depth= 2.04"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

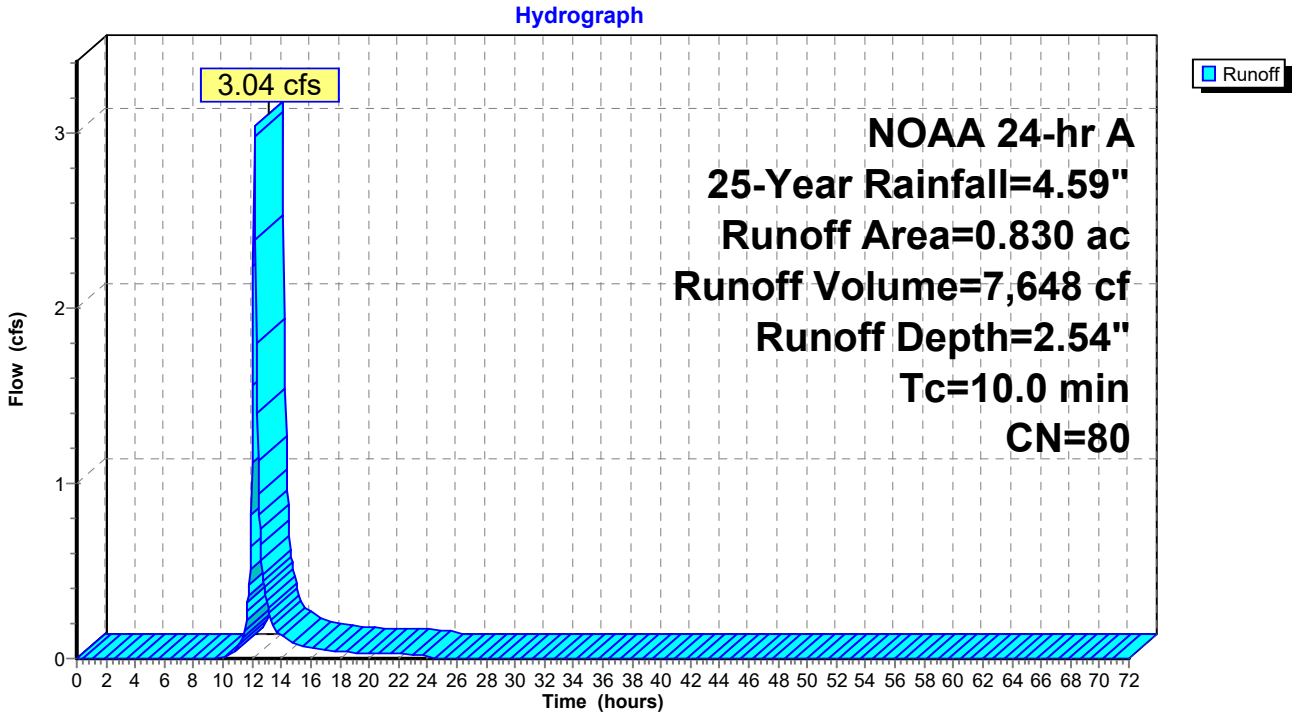
Runoff = 3.04 cfs @ 12.18 hrs, Volume= 7,648 cf, Depth= 2.54"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

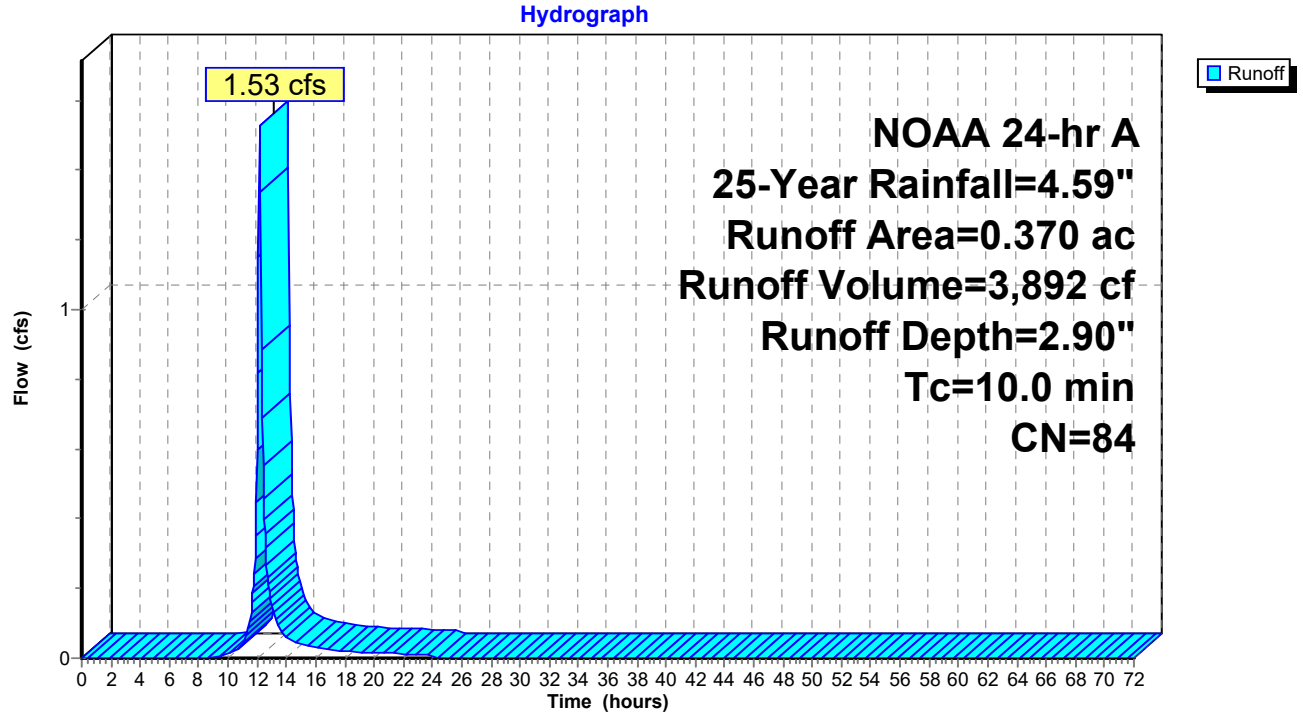
Runoff = 1.53 cfs @ 12.18 hrs, Volume= 3,892 cf, Depth= 2.90"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

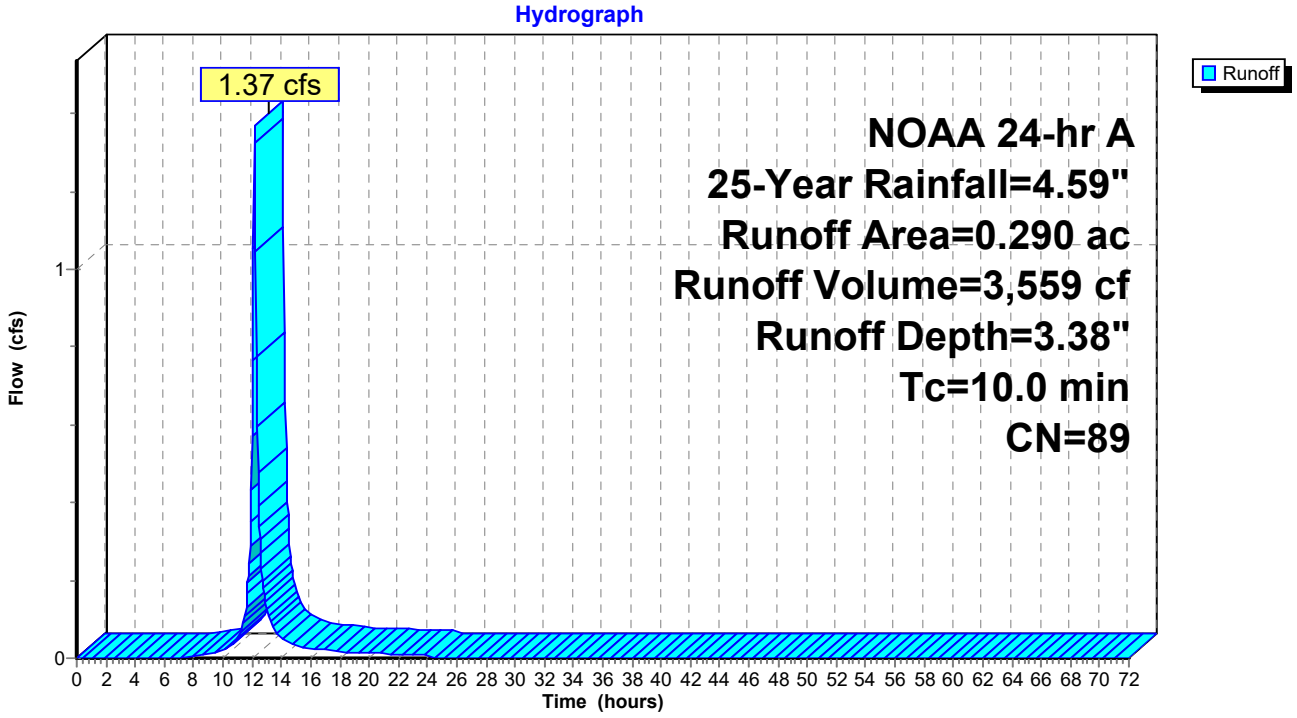
Runoff = 1.37 cfs @ 12.17 hrs, Volume= 3,559 cf, Depth= 3.38"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

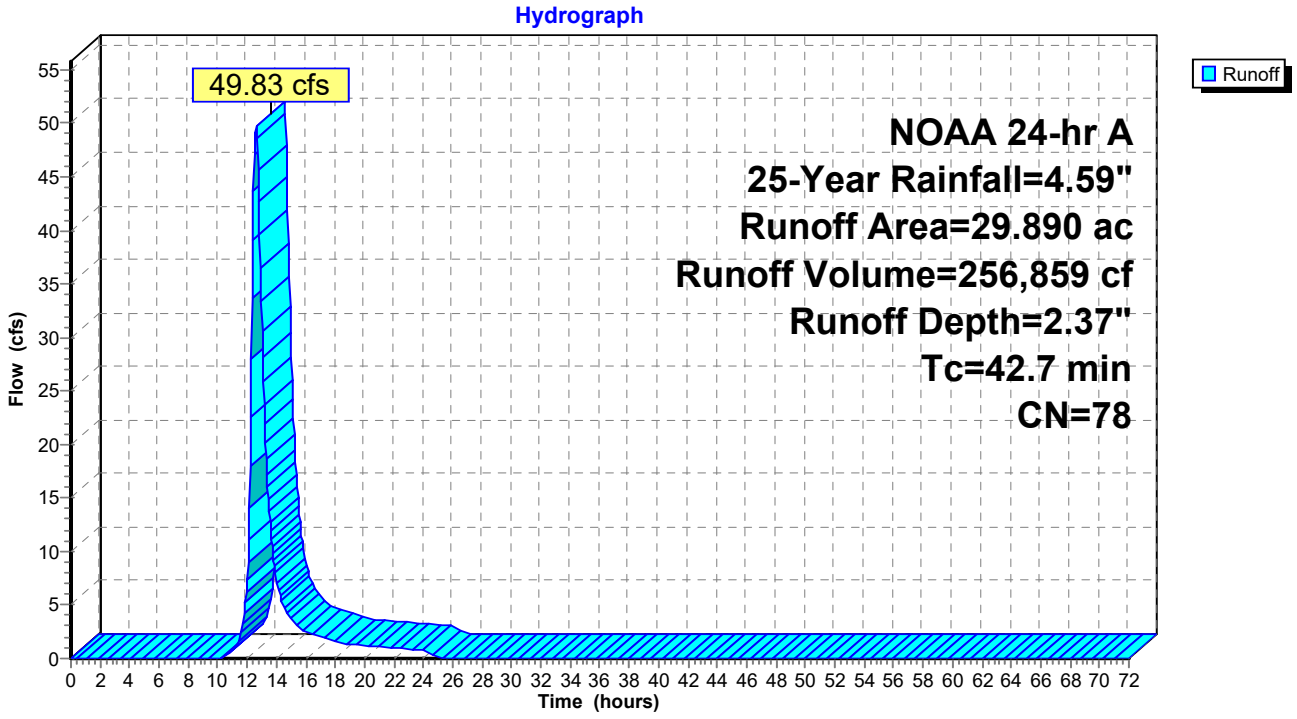
Runoff = 49.83 cfs @ 12.60 hrs, Volume= 256,859 cf, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 2.99" for 25-Year event
Inflow = 11.56 cfs @ 12.17 hrs, Volume= 29,484 cf
Outflow = 4.80 cfs @ 12.37 hrs, Volume= 29,201 cf, Atten= 59%, Lag= 11.7 min
Primary = 4.80 cfs @ 12.37 hrs, Volume= 29,201 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.42' @ 12.37 hrs Surf.Area= 10,036 sf Storage= 10,219 cf

Plug-Flow detention time= 121.6 min calculated for 29,180 cf (99% of inflow)
Center-of-Mass det. time= 117.5 min (915.1 - 797.6)

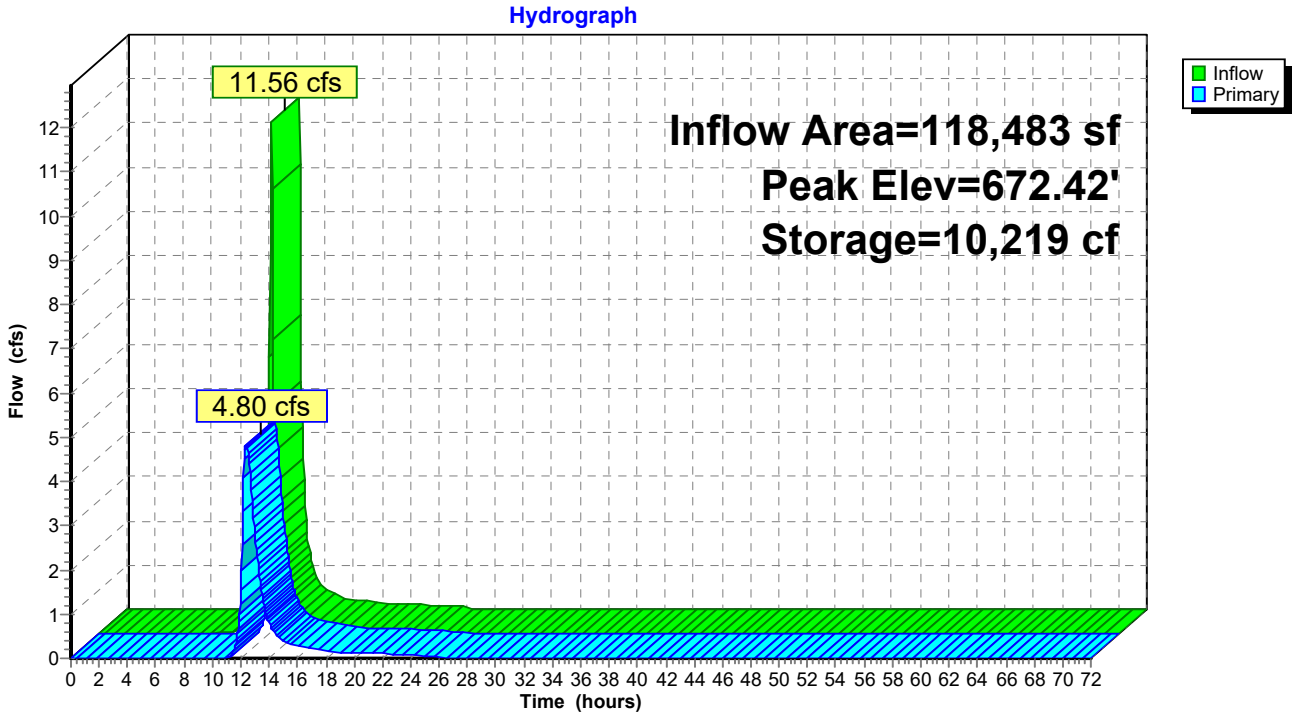
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.79 cfs @ 12.37 hrs HW=672.42' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 4.79 cfs of 18.02 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.46 fps)
  └─**3=Orifice/Grate** (Orifice Controls 4.78 cfs @ 3.89 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 3.26" for 25-Year event
Inflow = 104.16 cfs @ 12.42 hrs, Volume= 448,697 cf
Outflow = 11.13 cfs @ 13.72 hrs, Volume= 424,021 cf, Atten= 89%, Lag= 77.5 min
Primary = 11.13 cfs @ 13.72 hrs, Volume= 424,021 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.00' @ 13.72 hrs Surf.Area= 102,728 sf Storage= 294,988 cf

Plug-Flow detention time= 684.4 min calculated for 423,726 cf (94% of inflow)
Center-of-Mass det. time= 657.1 min (1,467.5 - 810.5)

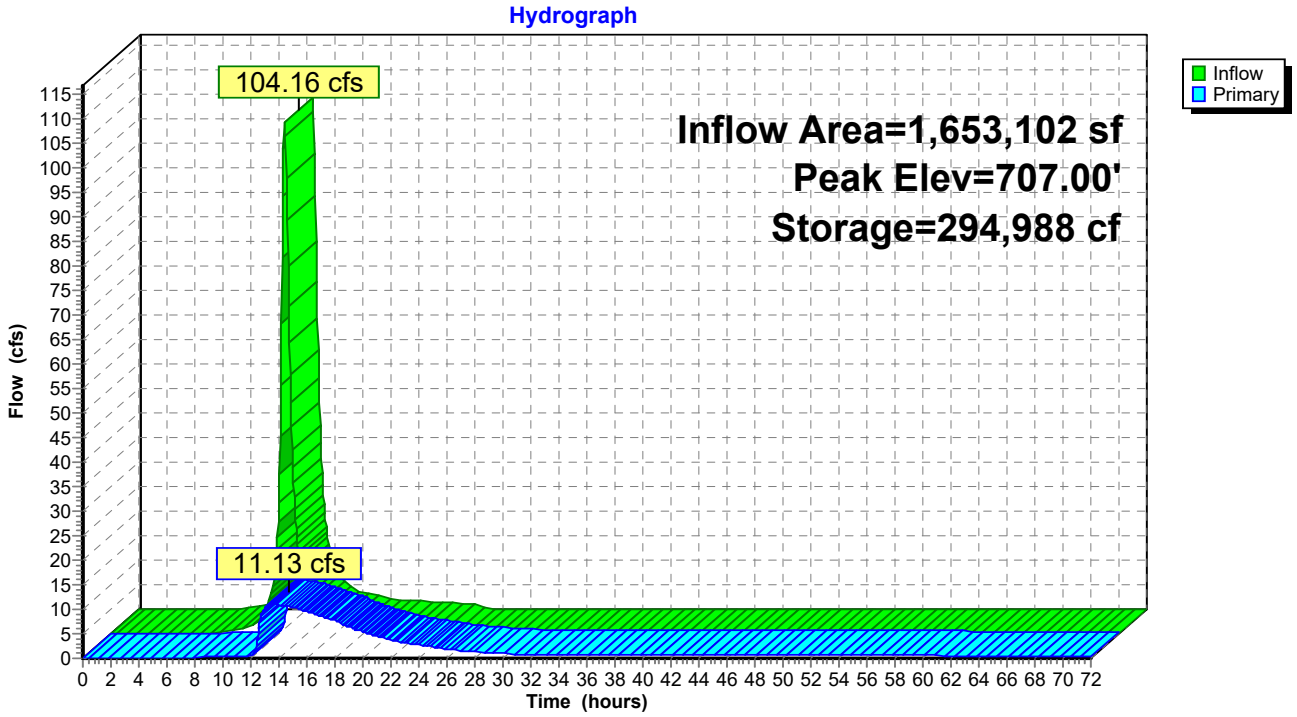
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=11.13 cfs @ 13.72 hrs HW=707.00' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 11.13 cfs of 51.49 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.78 cfs @ 11.65 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 10.23 cfs @ 5.79 fps)
  └─**4=Orifice/Grate** (Orifice Controls 0.12 cfs @ 0.40 fps)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

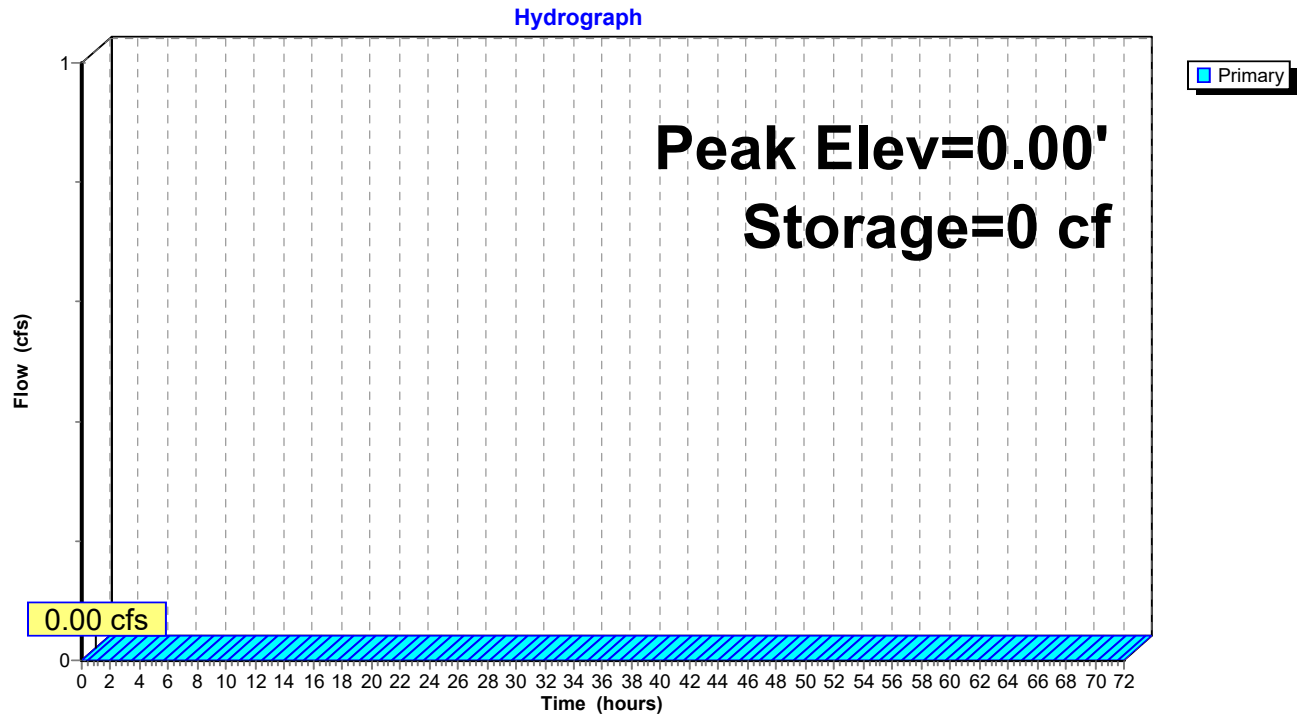
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

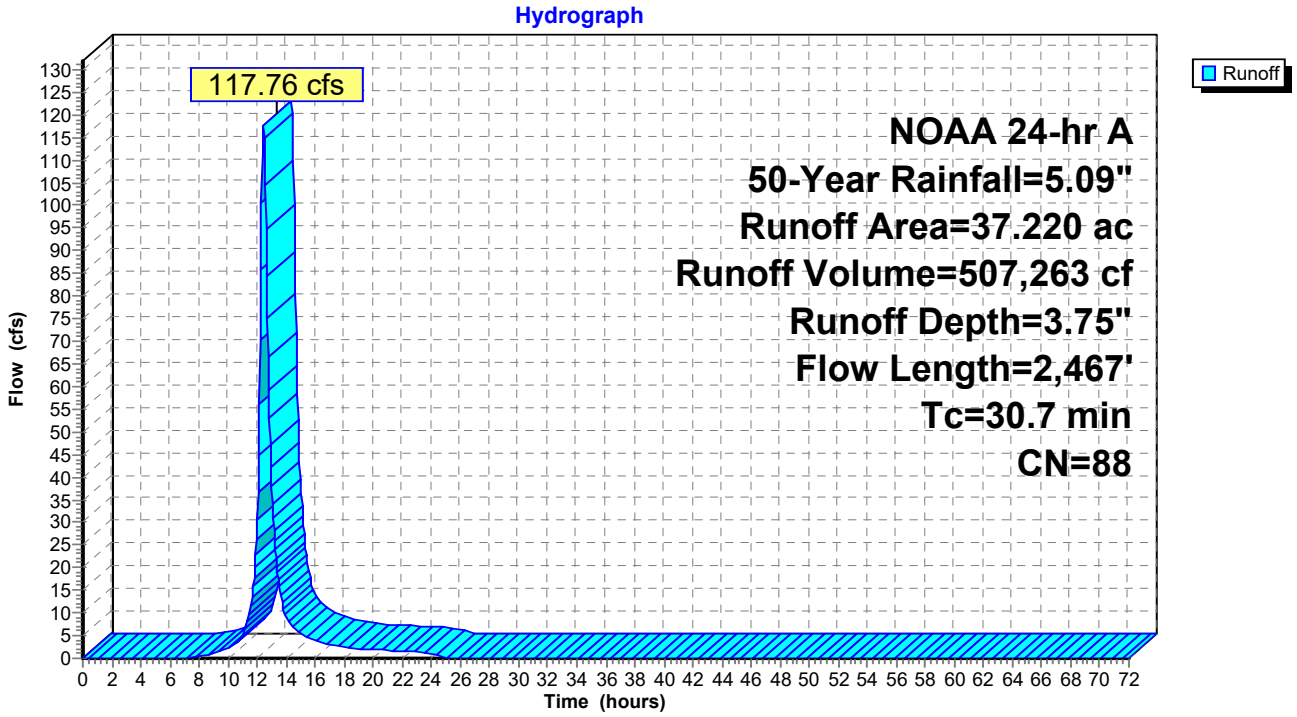
Runoff = 117.76 cfs @ 12.42 hrs, Volume= 507,263 cf, Depth= 3.75"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



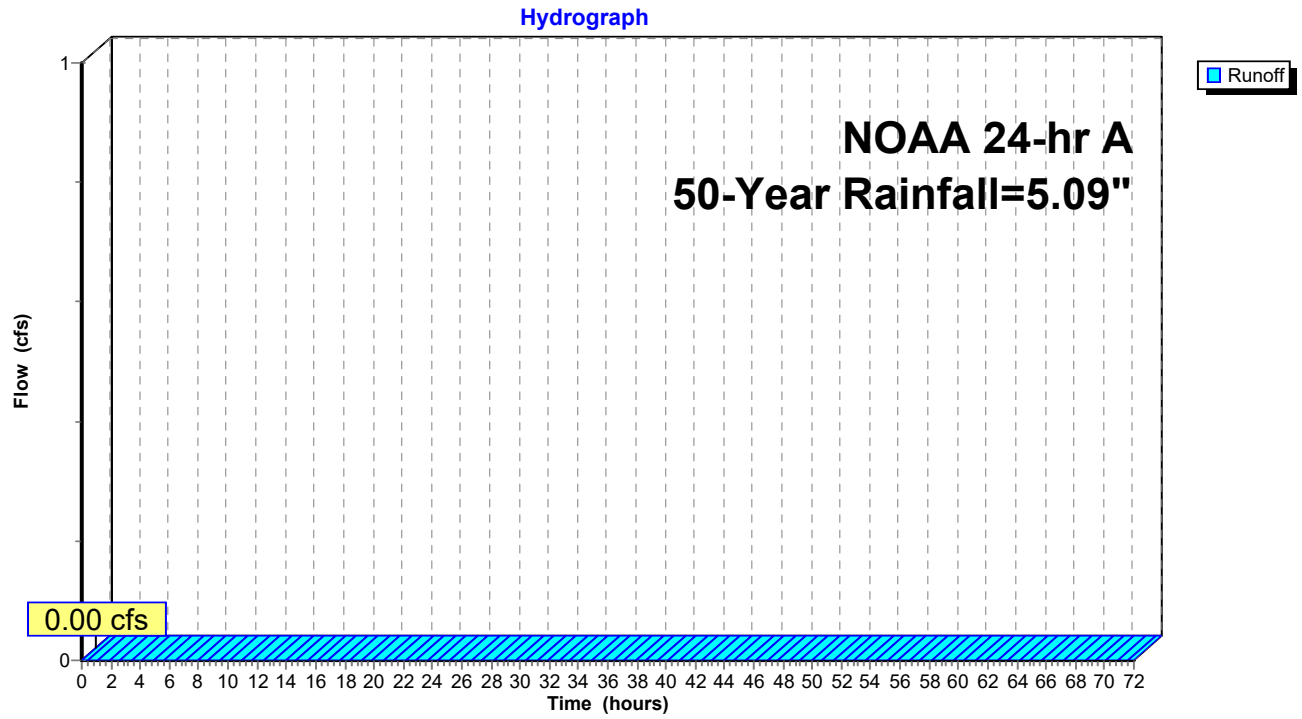
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

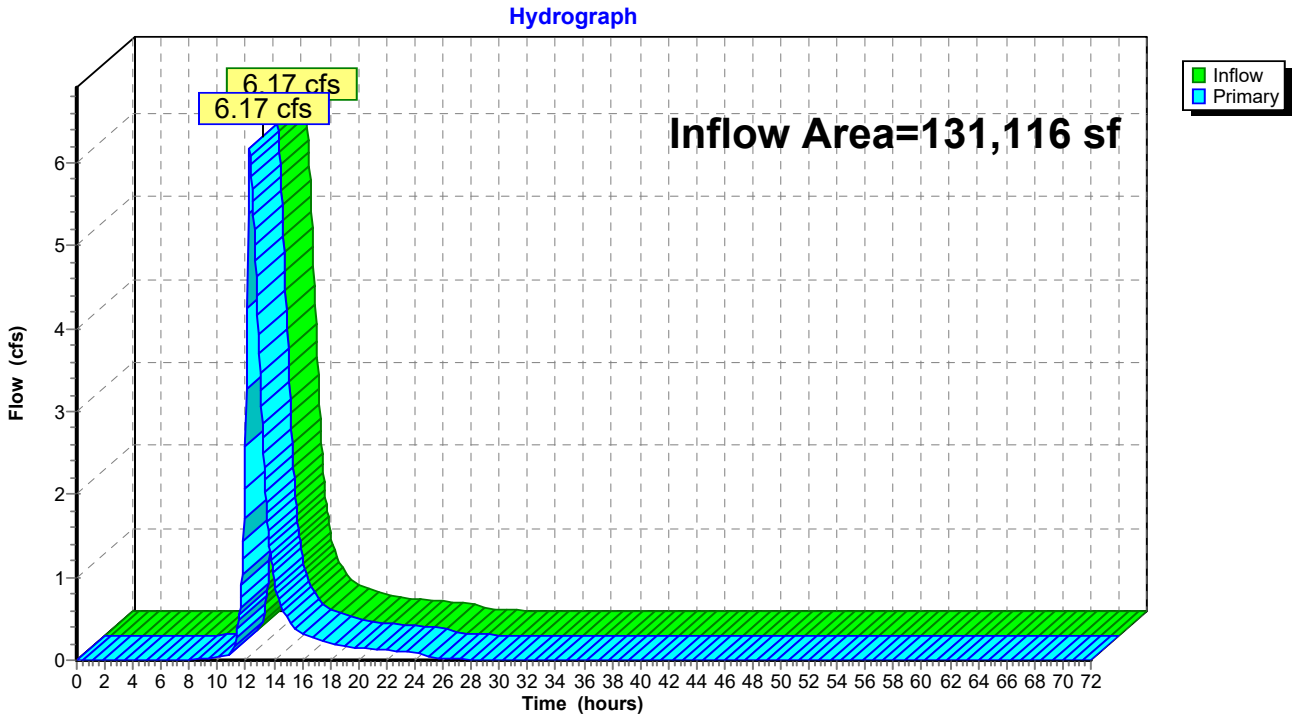


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.46" for 50-Year event
Inflow = 6.17 cfs @ 12.25 hrs, Volume= 37,785 cf
Primary = 6.17 cfs @ 12.25 hrs, Volume= 37,785 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

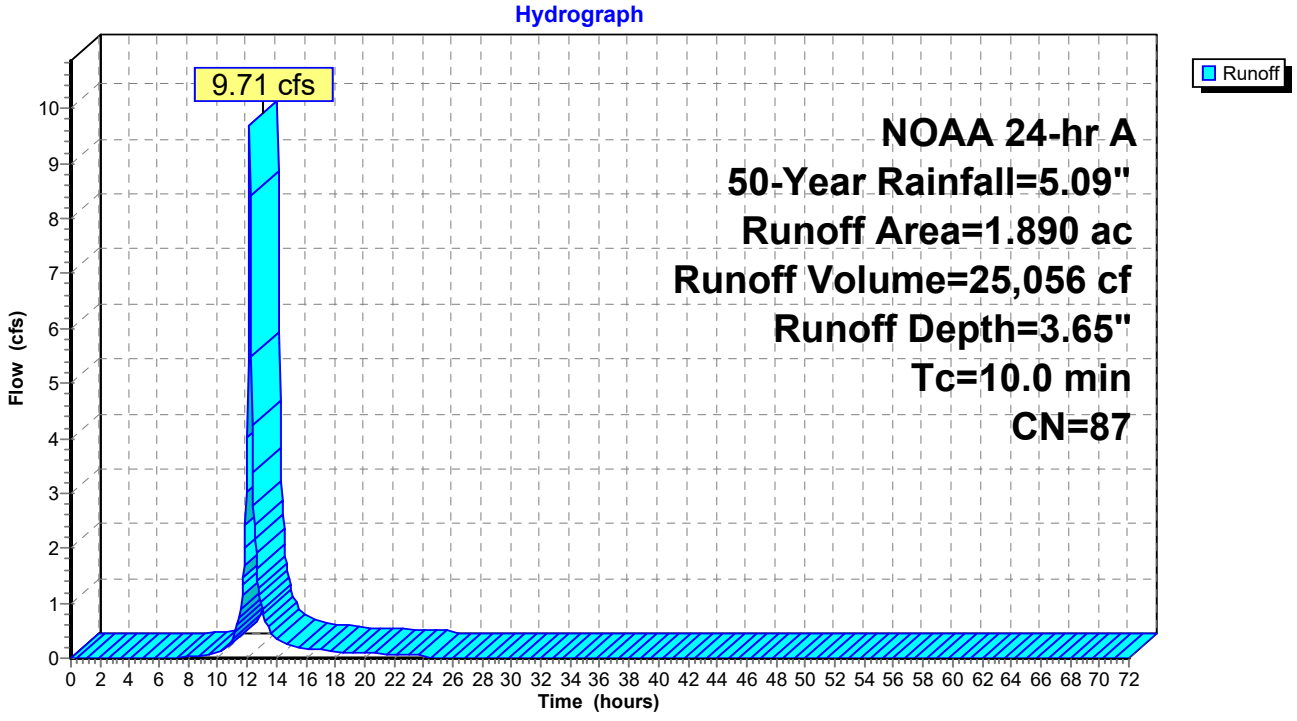
Runoff = 9.71 cfs @ 12.17 hrs, Volume= 25,056 cf, Depth= 3.65"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

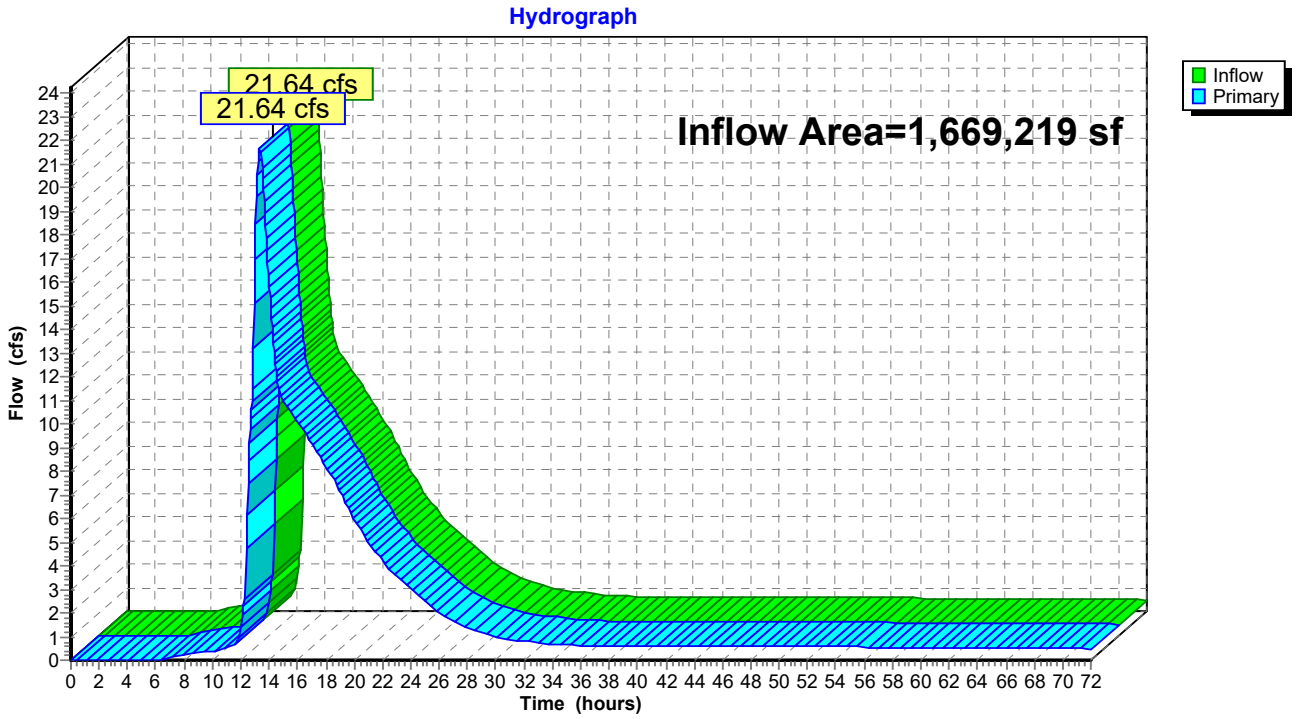


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 3.54" for 50-Year event
Inflow = 21.64 cfs @ 13.32 hrs, Volume= 492,821 cf
Primary = 21.64 cfs @ 13.32 hrs, Volume= 492,821 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

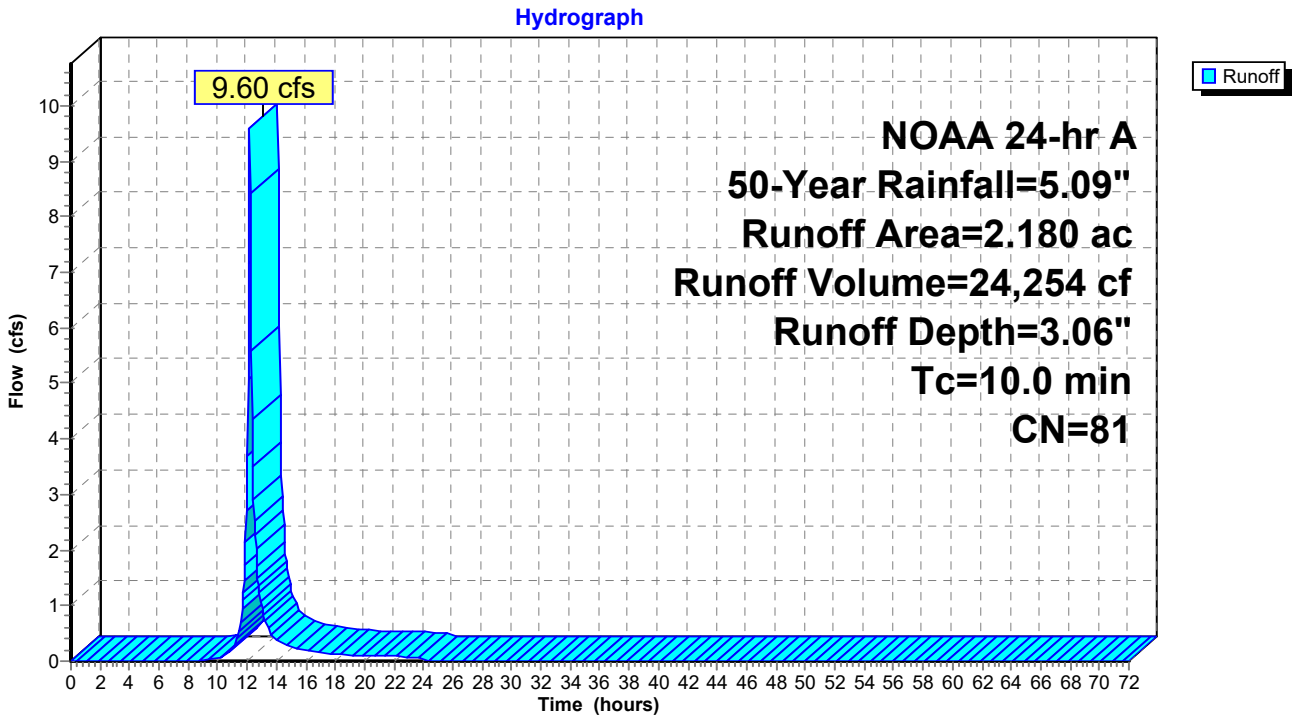
Runoff = 9.60 cfs @ 12.18 hrs, Volume= 24,254 cf, Depth= 3.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

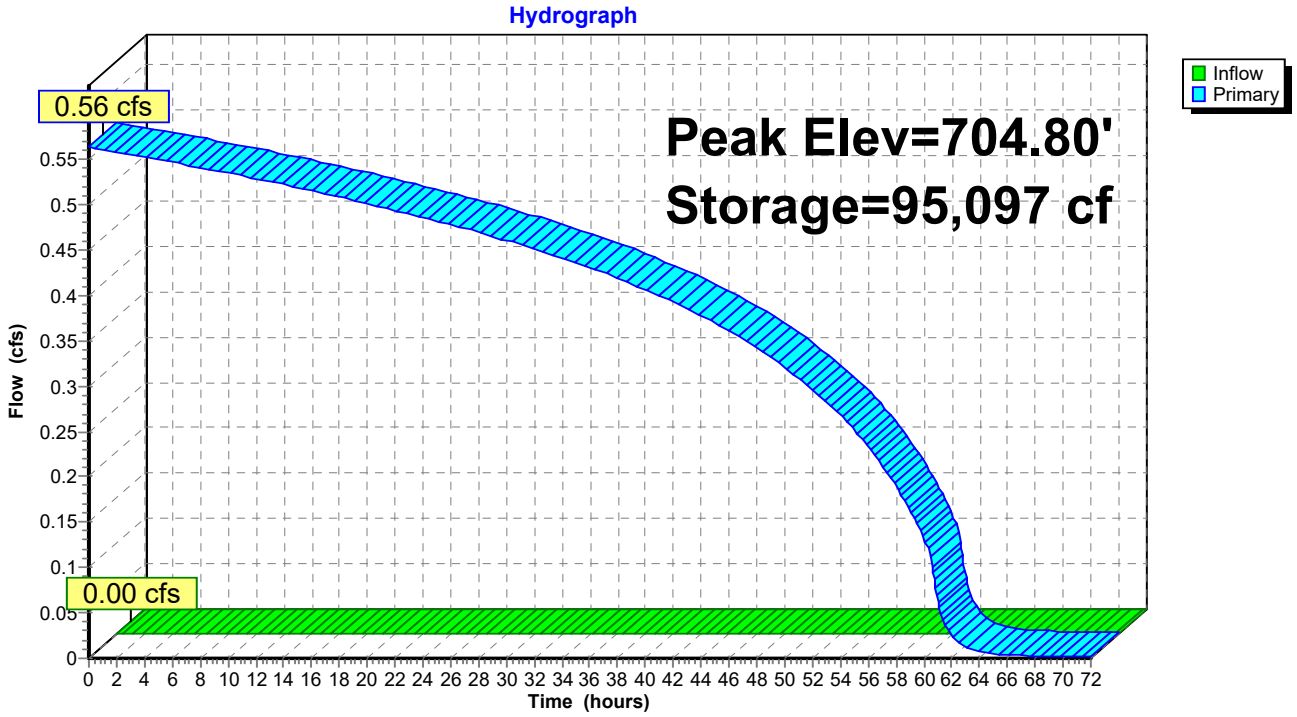
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

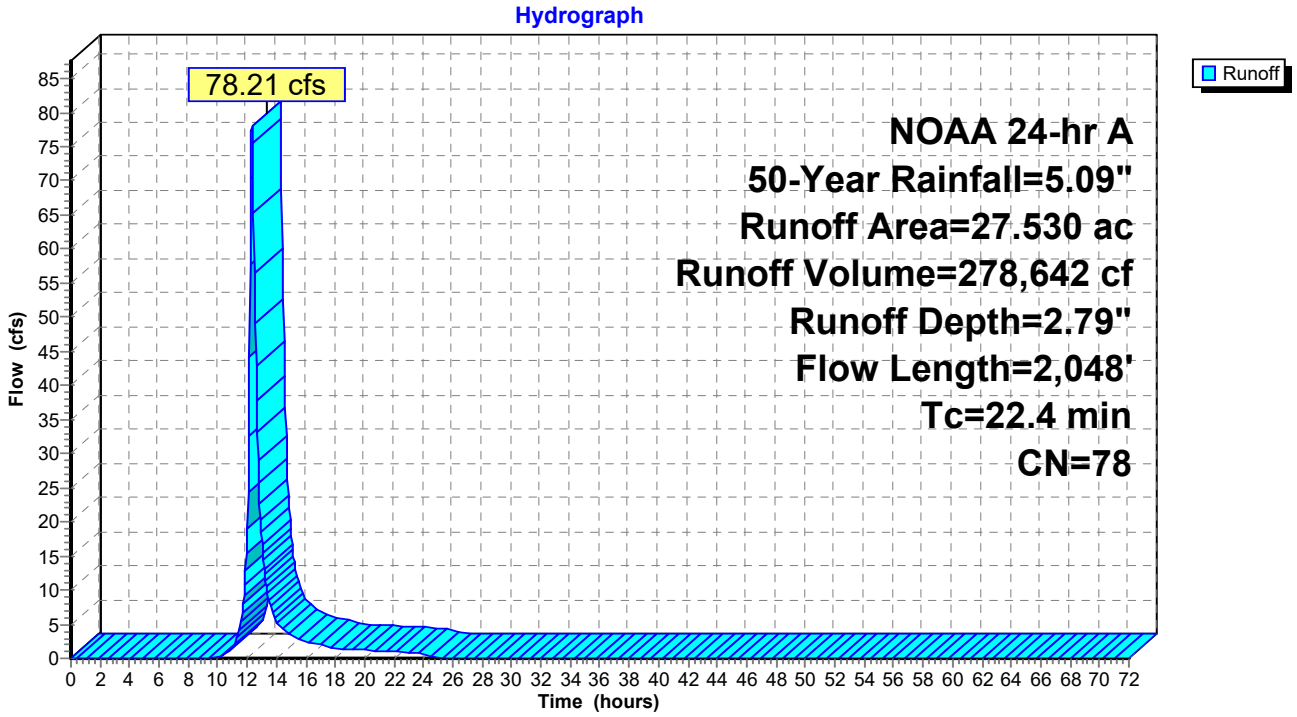
Runoff = 78.21 cfs @ 12.33 hrs, Volume= 278,642 cf, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

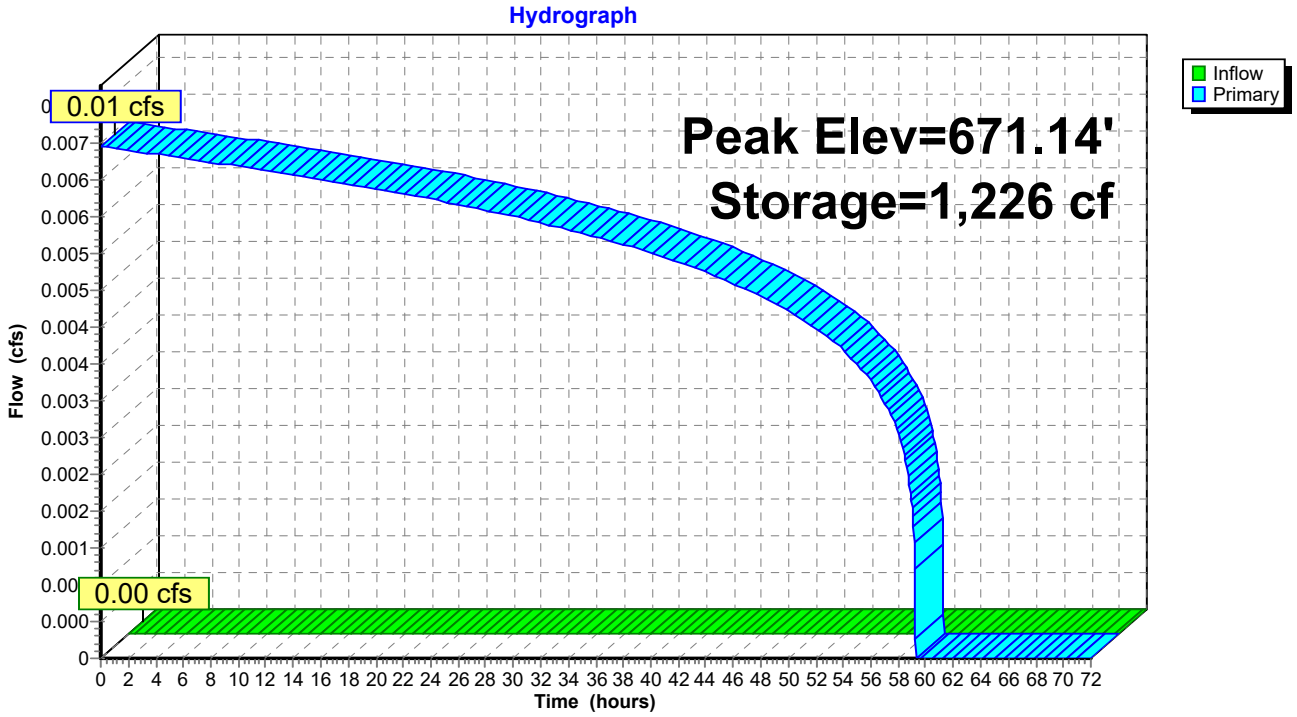
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

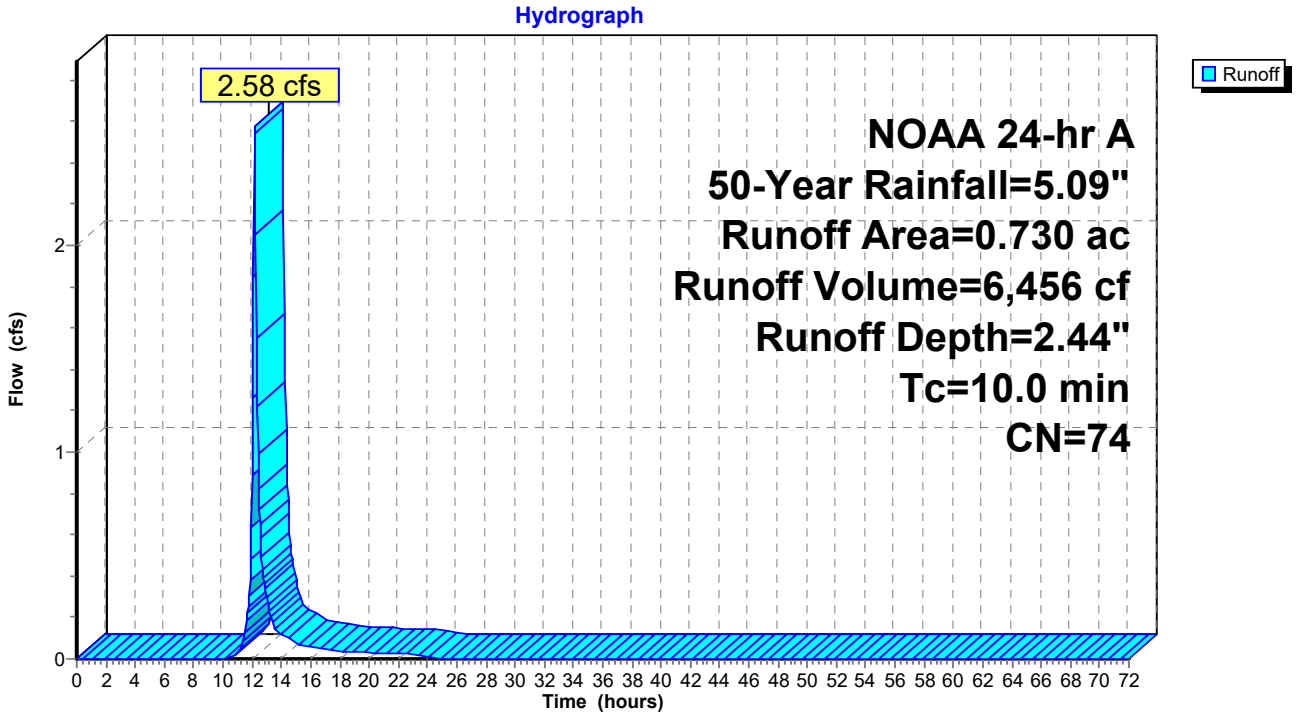
Runoff = 2.58 cfs @ 12.18 hrs, Volume= 6,456 cf, Depth= 2.44"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

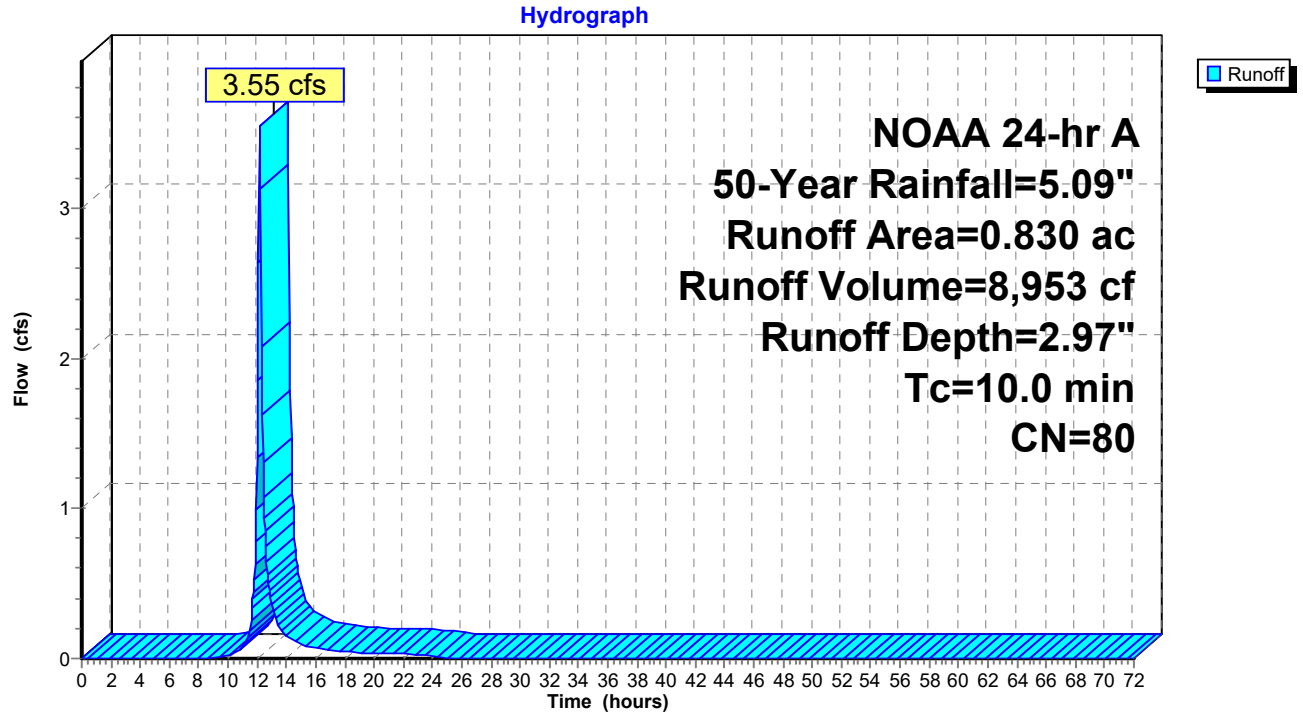
Runoff = 3.55 cfs @ 12.18 hrs, Volume= 8,953 cf, Depth= 2.97"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

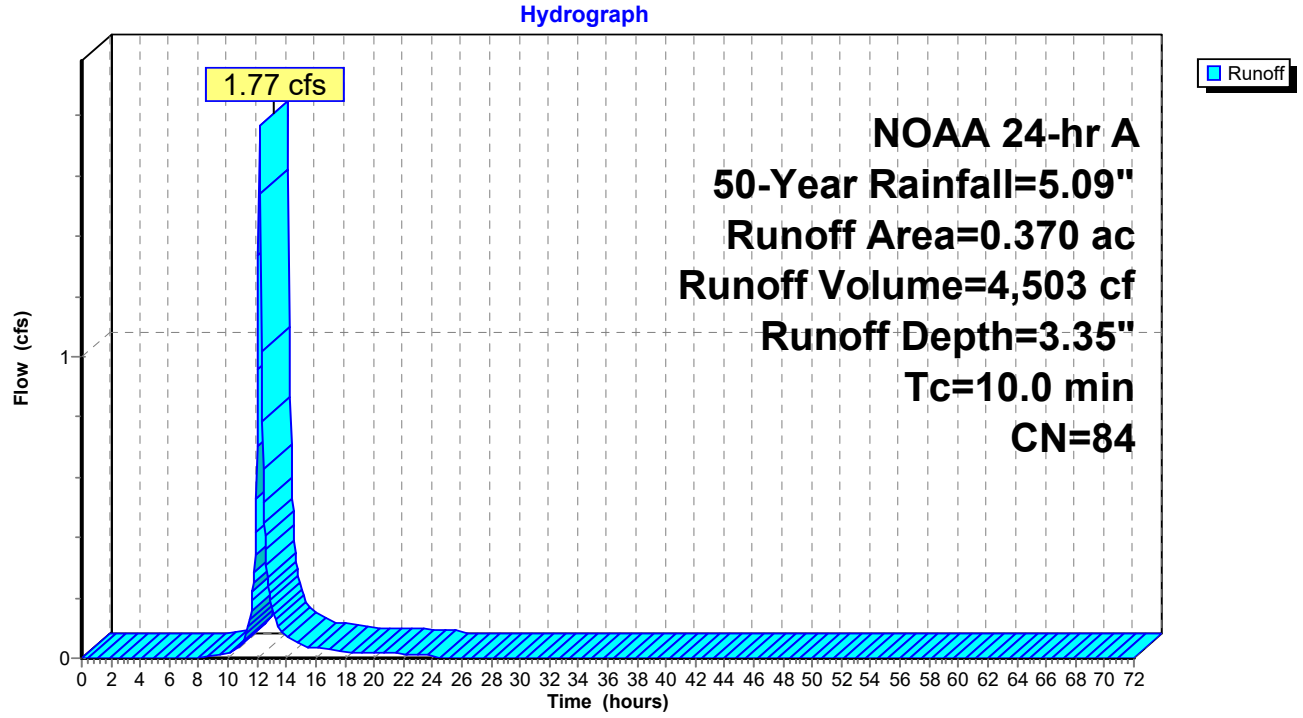
Runoff = 1.77 cfs @ 12.17 hrs, Volume= 4,503 cf, Depth= 3.35"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

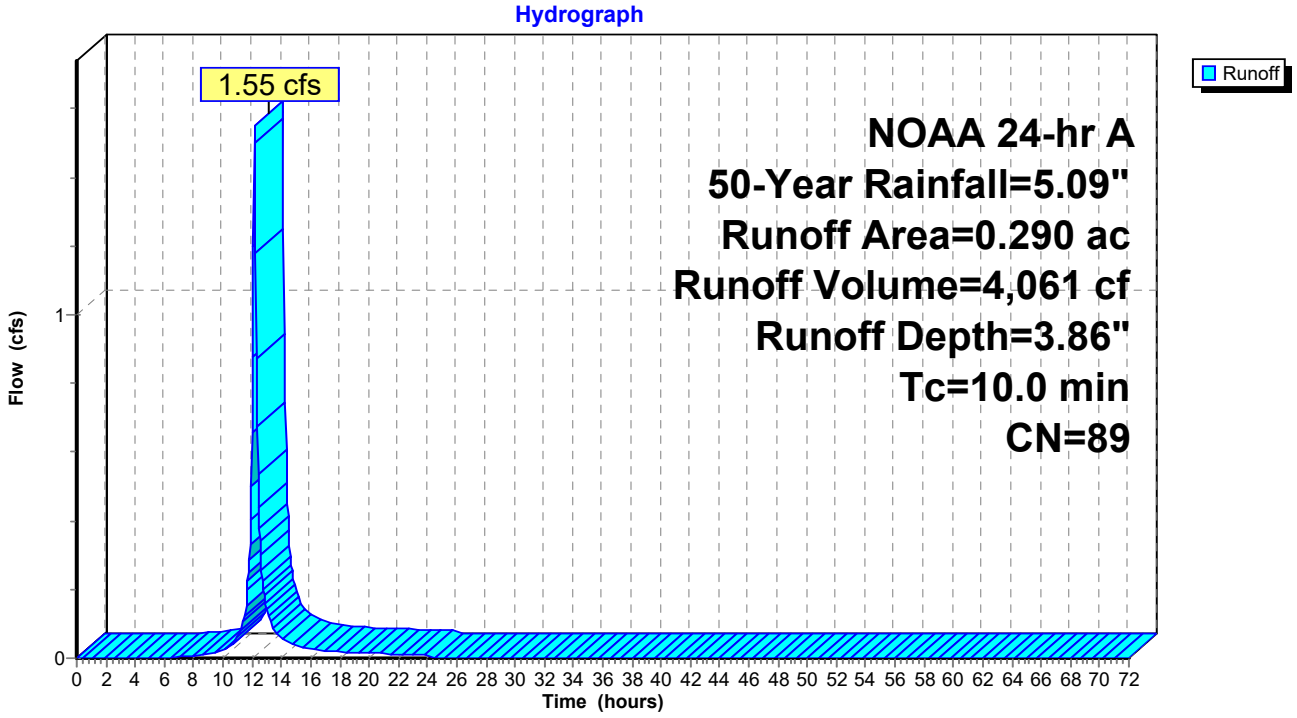
Runoff = 1.55 cfs @ 12.17 hrs, Volume= 4,061 cf, Depth= 3.86"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

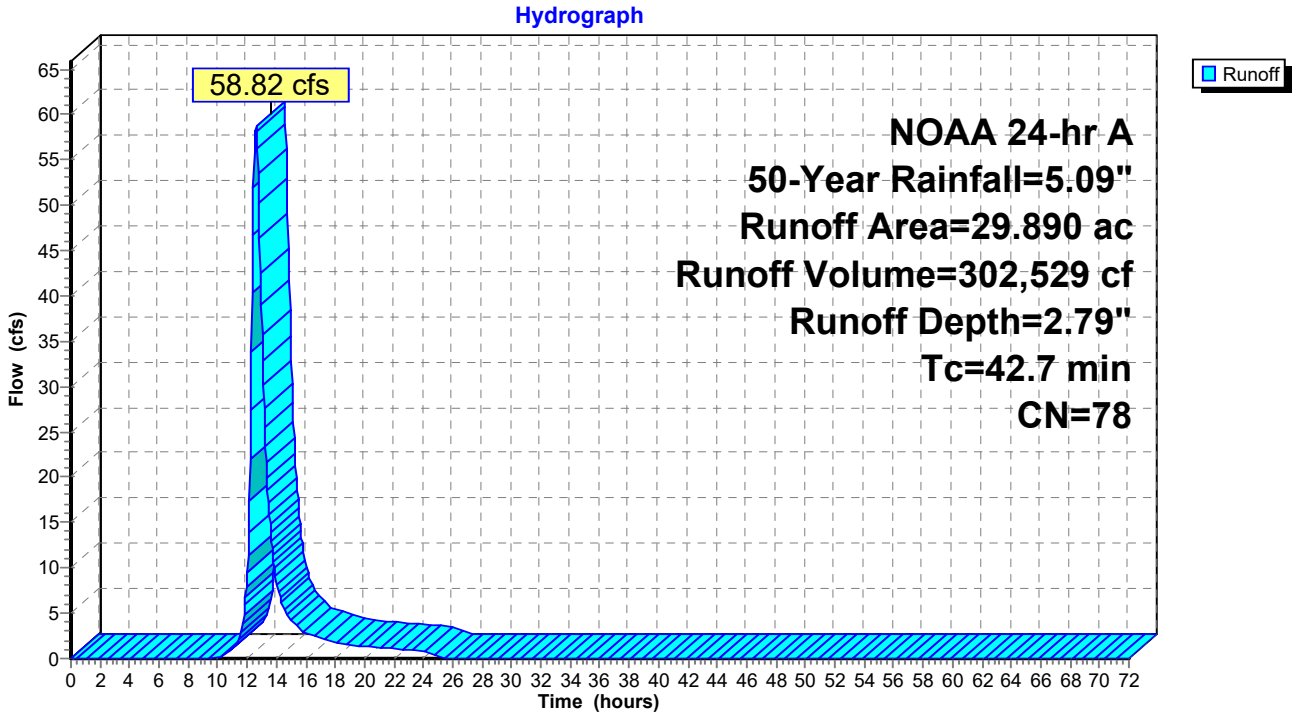
Runoff = 58.82 cfs @ 12.60 hrs, Volume= 302,529 cf, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 3.44" for 50-Year event
Inflow = 13.27 cfs @ 12.17 hrs, Volume= 34,009 cf
Outflow = 5.31 cfs @ 12.37 hrs, Volume= 33,723 cf, Atten= 60%, Lag= 12.0 min
Primary = 5.31 cfs @ 12.37 hrs, Volume= 33,723 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.57' @ 12.37 hrs Surf.Area= 10,434 sf Storage= 11,742 cf

Plug-Flow detention time= 112.5 min calculated for 33,723 cf (99% of inflow)
Center-of-Mass det. time= 107.2 min (901.9 - 794.7)

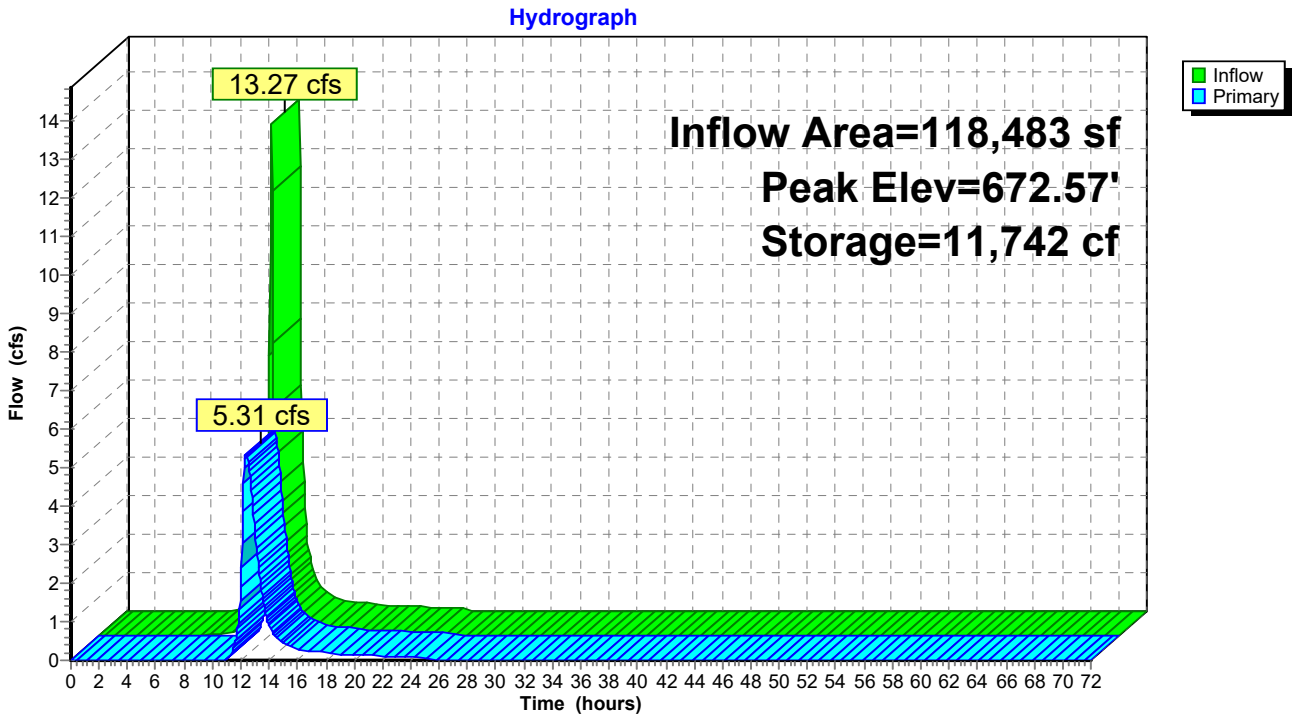
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.30 cfs @ 12.37 hrs HW=672.57' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 5.30 cfs of 18.94 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.68 fps)
  └─**3=Orifice/Grate** (Orifice Controls 5.29 cfs @ 4.31 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 3.73" for 50-Year event
Inflow = 118.66 cfs @ 12.42 hrs, Volume= 513,719 cf
Outflow = 21.52 cfs @ 13.32 hrs, Volume= 488,318 cf, Atten= 82%, Lag= 53.8 min
Primary = 21.52 cfs @ 13.32 hrs, Volume= 488,318 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.26' @ 13.32 hrs Surf.Area= 104,209 sf Storage= 322,527 cf

Plug-Flow detention time= 618.4 min calculated for 488,318 cf (95% of inflow)
Center-of-Mass det. time= 591.8 min (1,399.5 - 807.7)

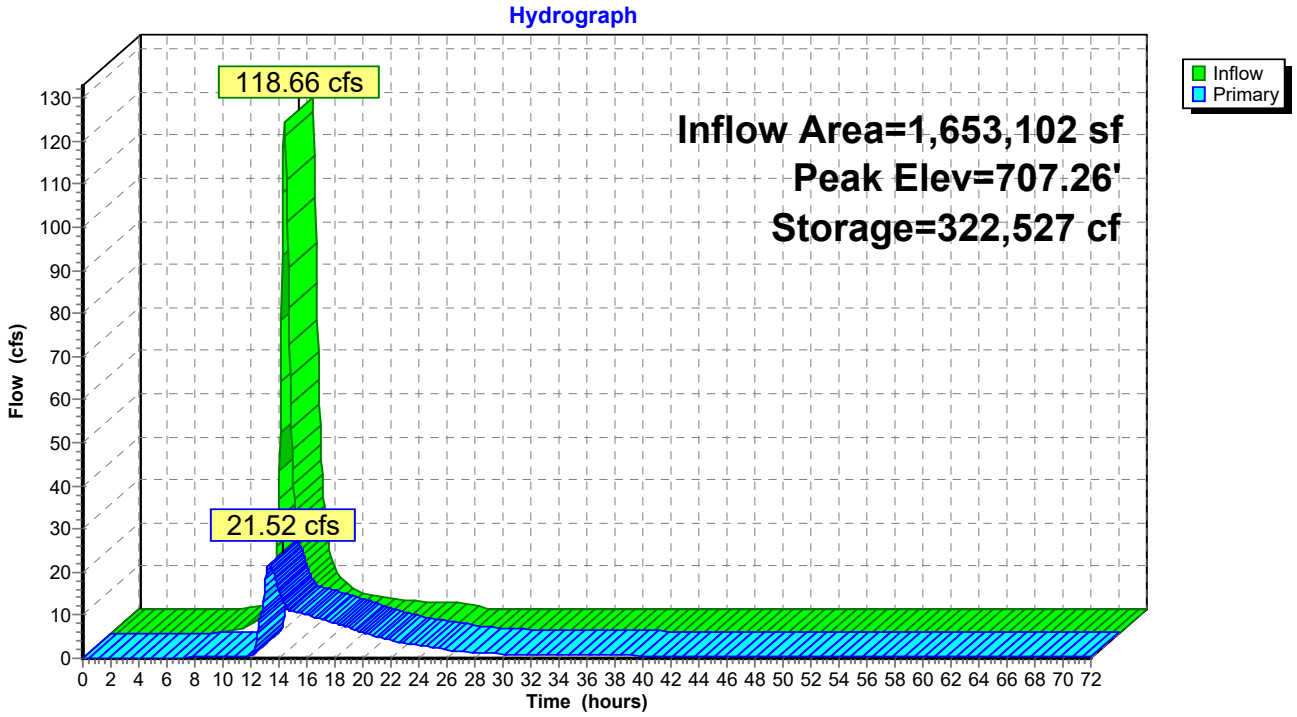
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=21.50 cfs @ 13.32 hrs HW=707.26' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 21.50 cfs of 52.91 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.80 cfs @ 11.91 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 11.13 cfs @ 6.30 fps)
  └─**4=Orifice/Grate** (Orifice Controls 9.58 cfs @ 1.70 fps)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

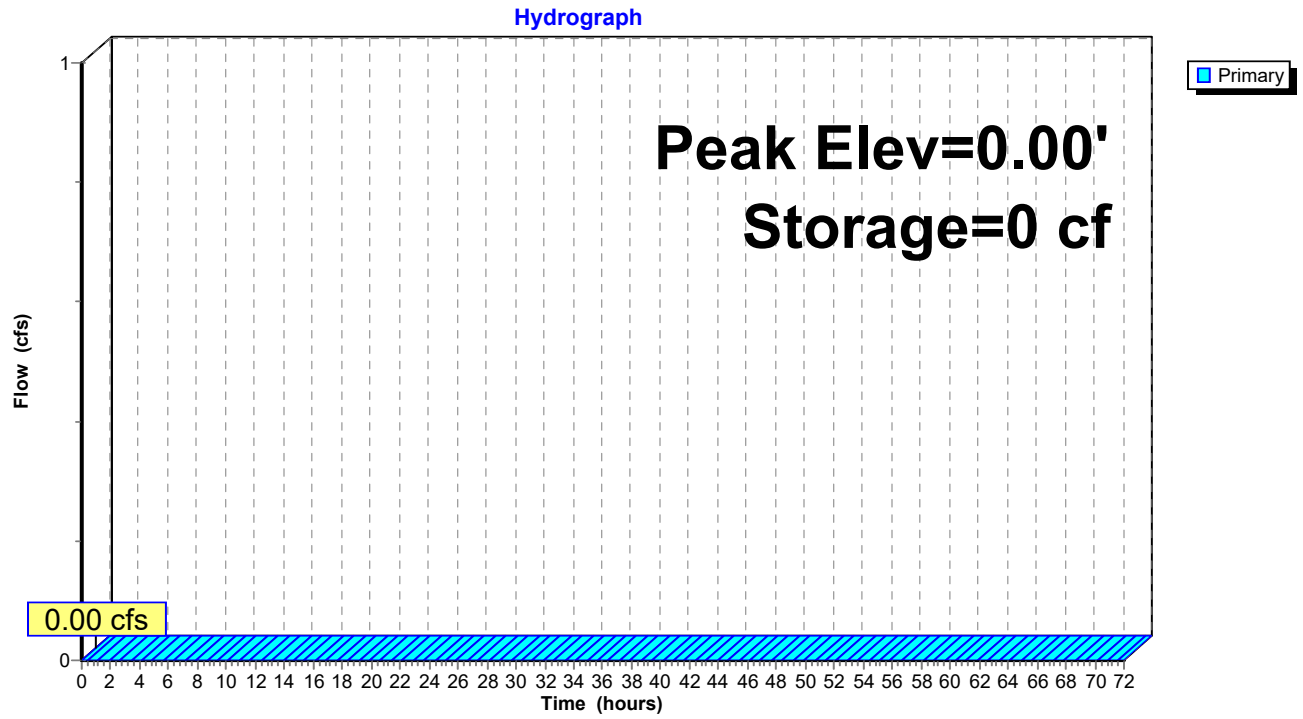
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

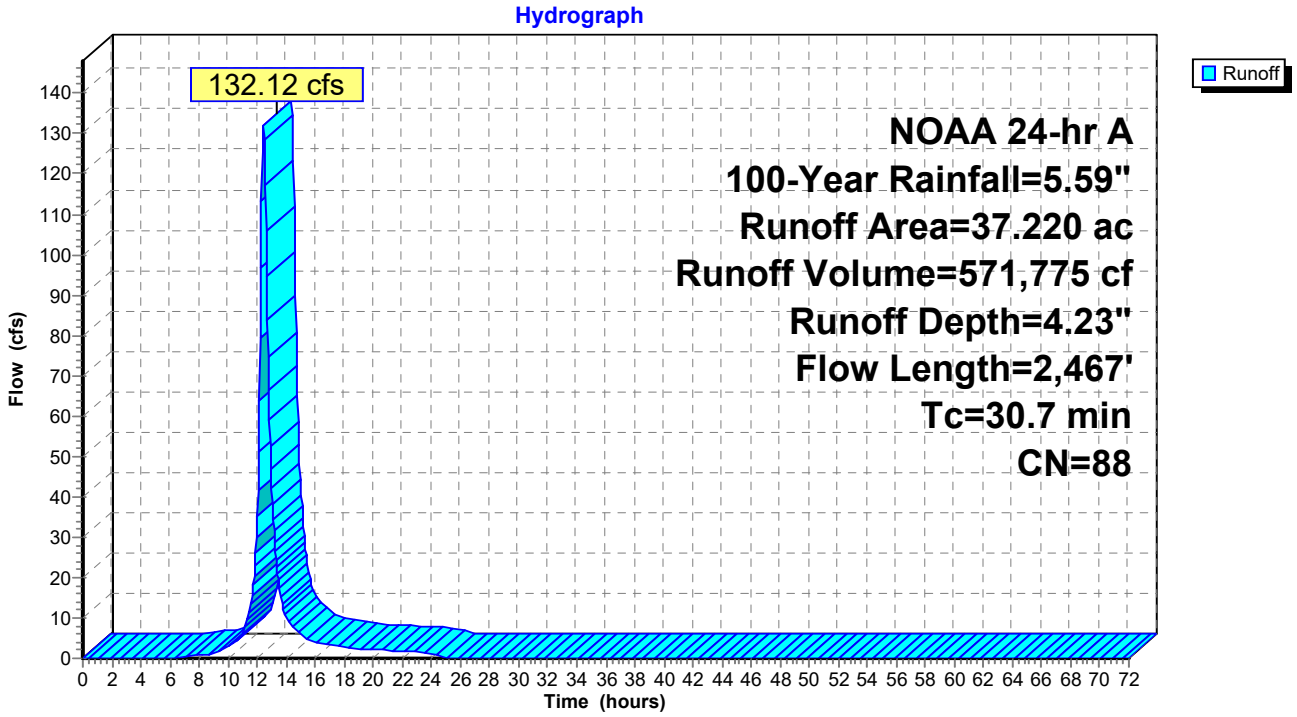
Runoff = 132.12 cfs @ 12.42 hrs, Volume= 571,775 cf, Depth= 4.23"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



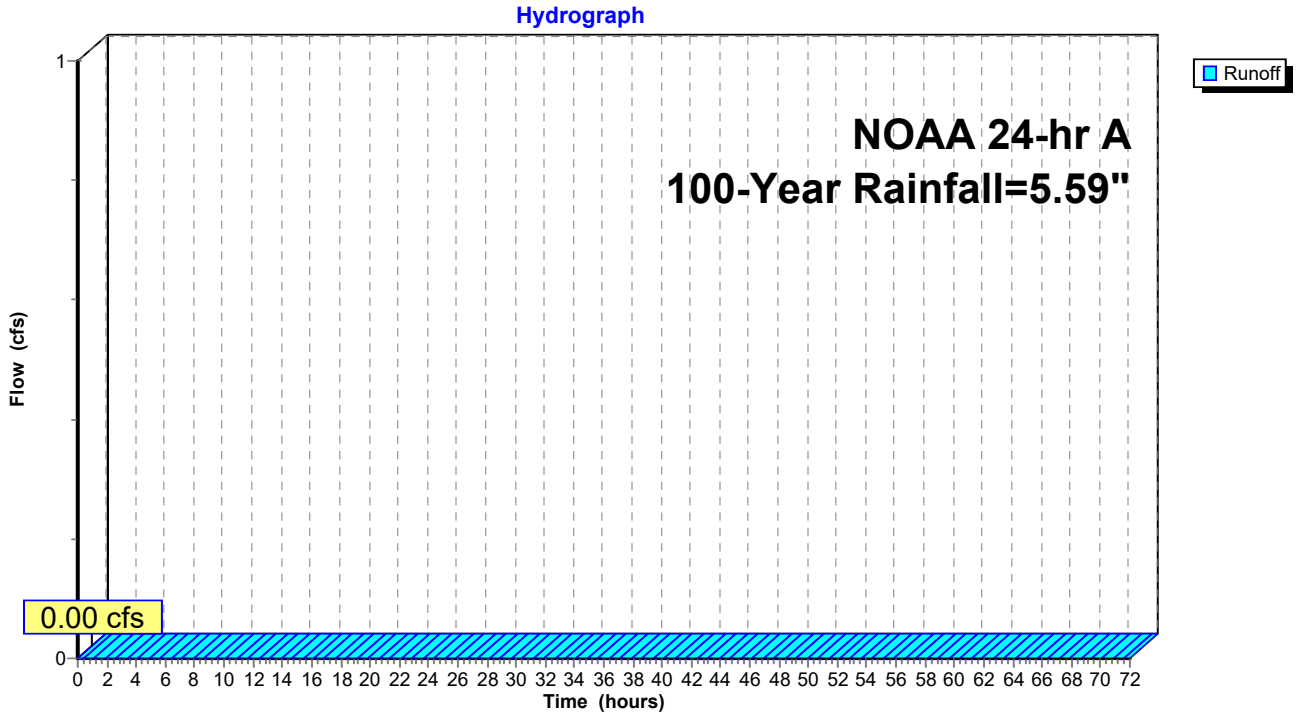
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

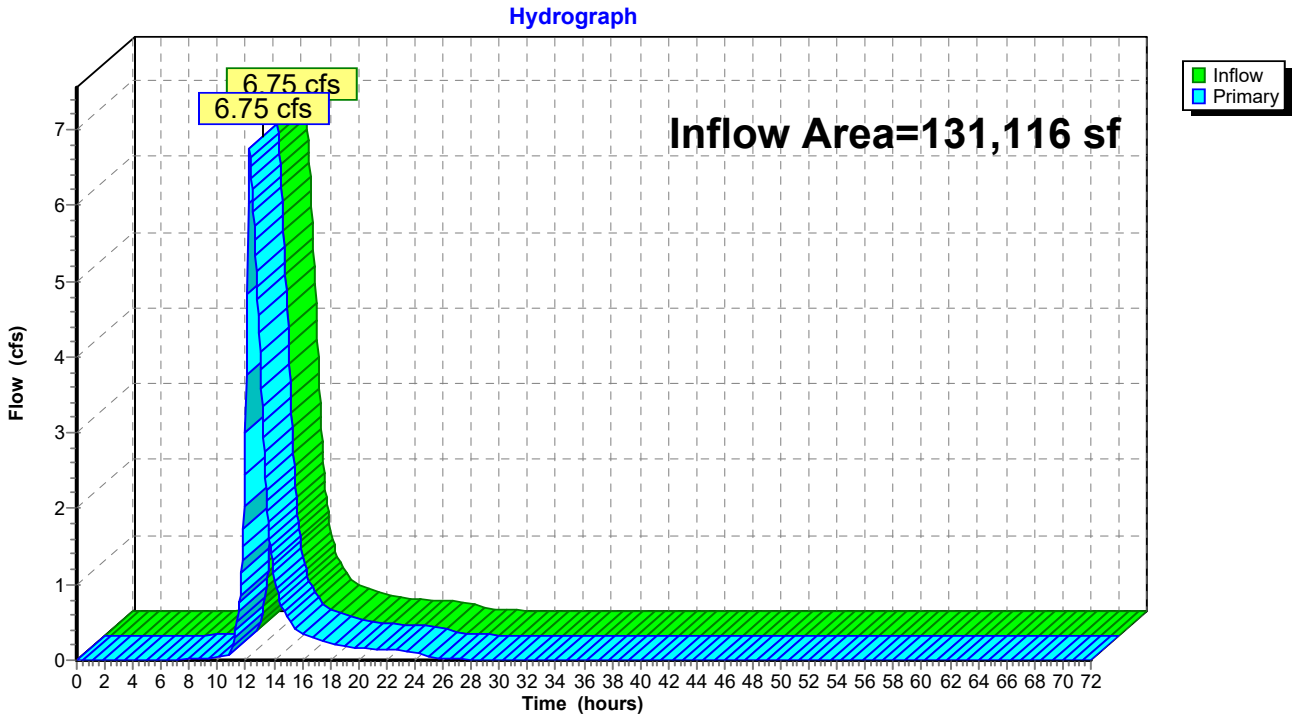


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.92" for 100-Year event
Inflow = 6.75 cfs @ 12.25 hrs, Volume= 42,872 cf
Primary = 6.75 cfs @ 12.25 hrs, Volume= 42,872 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

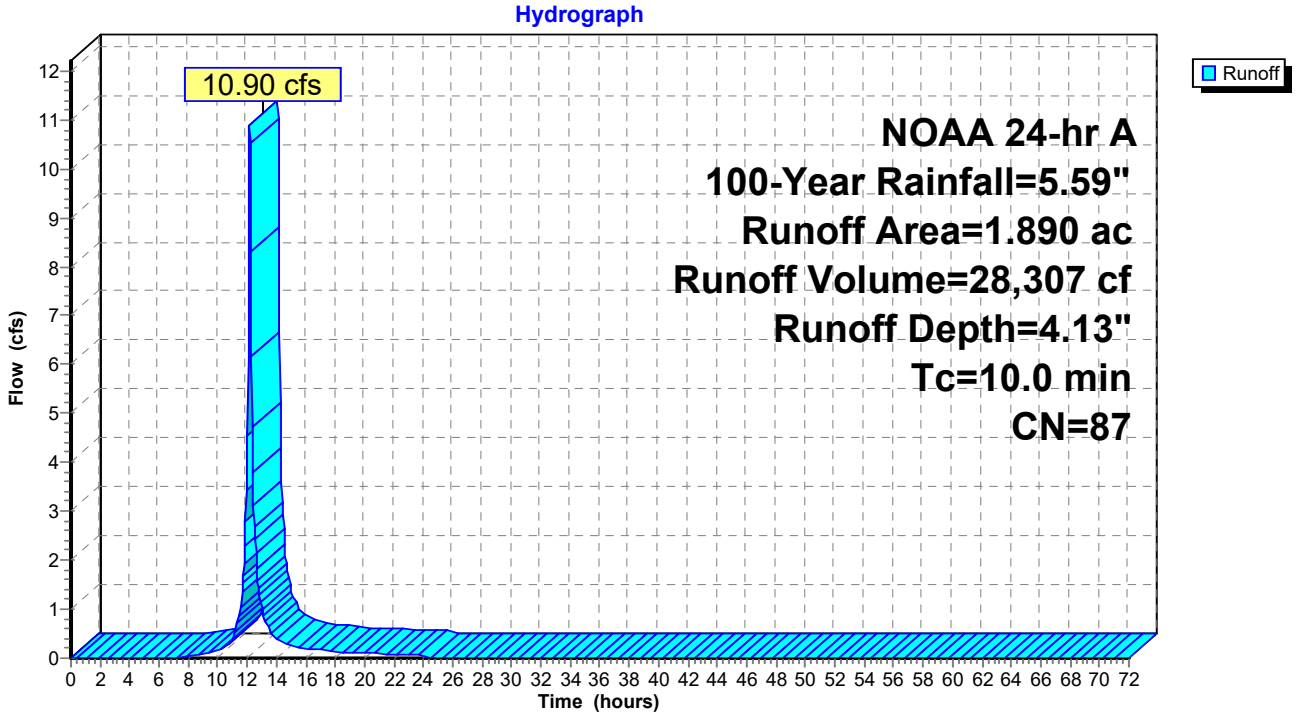
Runoff = 10.90 cfs @ 12.17 hrs, Volume= 28,307 cf, Depth= 4.13"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

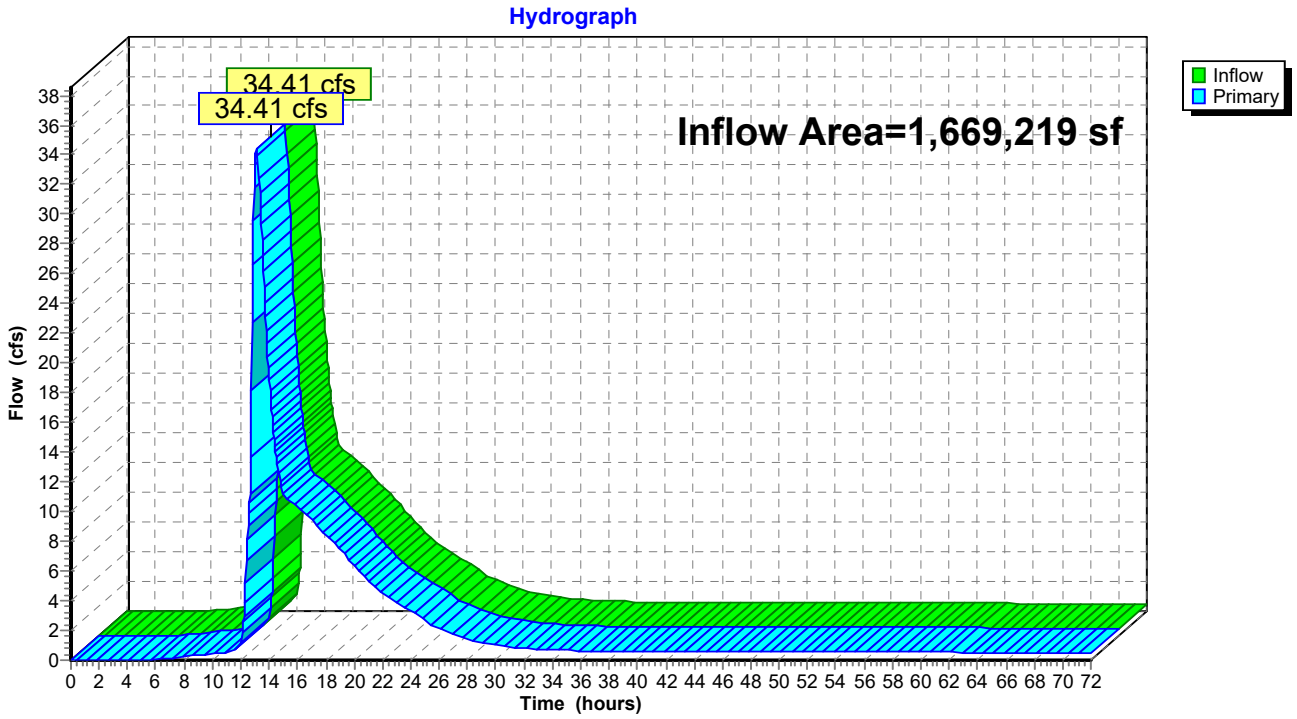


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 4.02" for 100-Year event
Inflow = 34.41 cfs @ 13.11 hrs, Volume= 558,531 cf
Primary = 34.41 cfs @ 13.11 hrs, Volume= 558,531 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

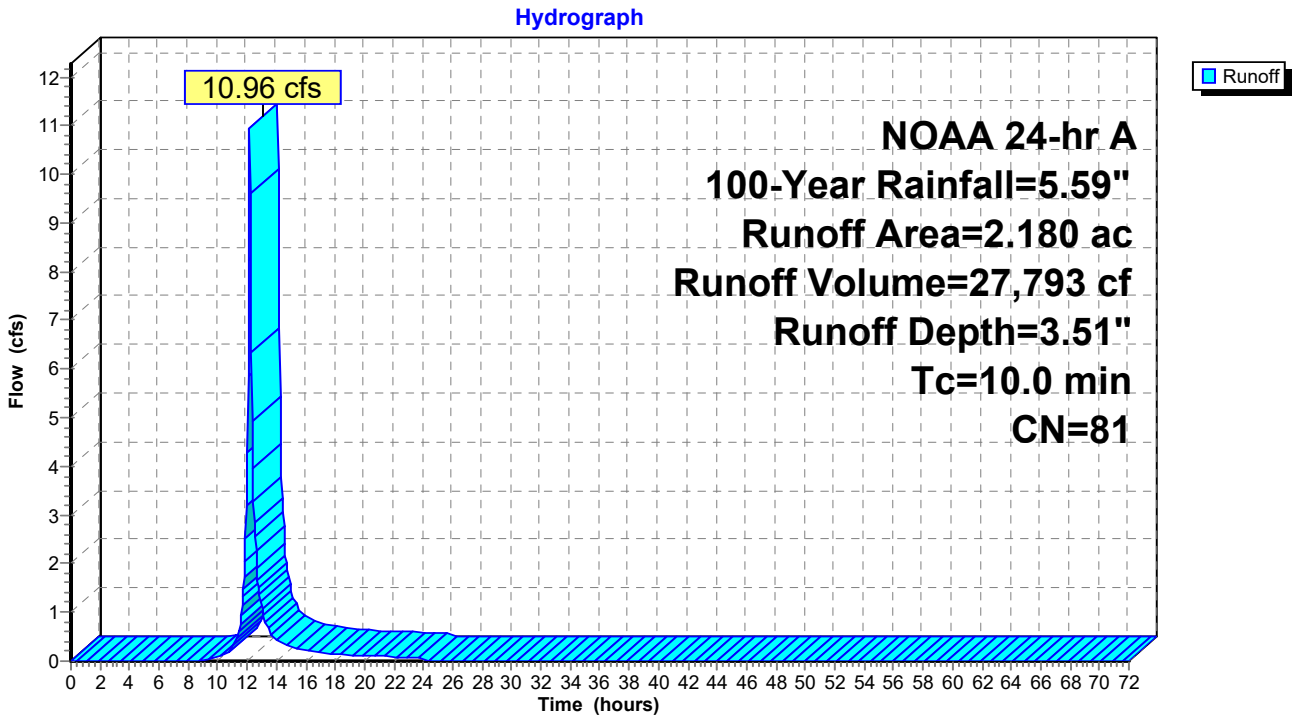
Runoff = 10.96 cfs @ 12.18 hrs, Volume= 27,793 cf, Depth= 3.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

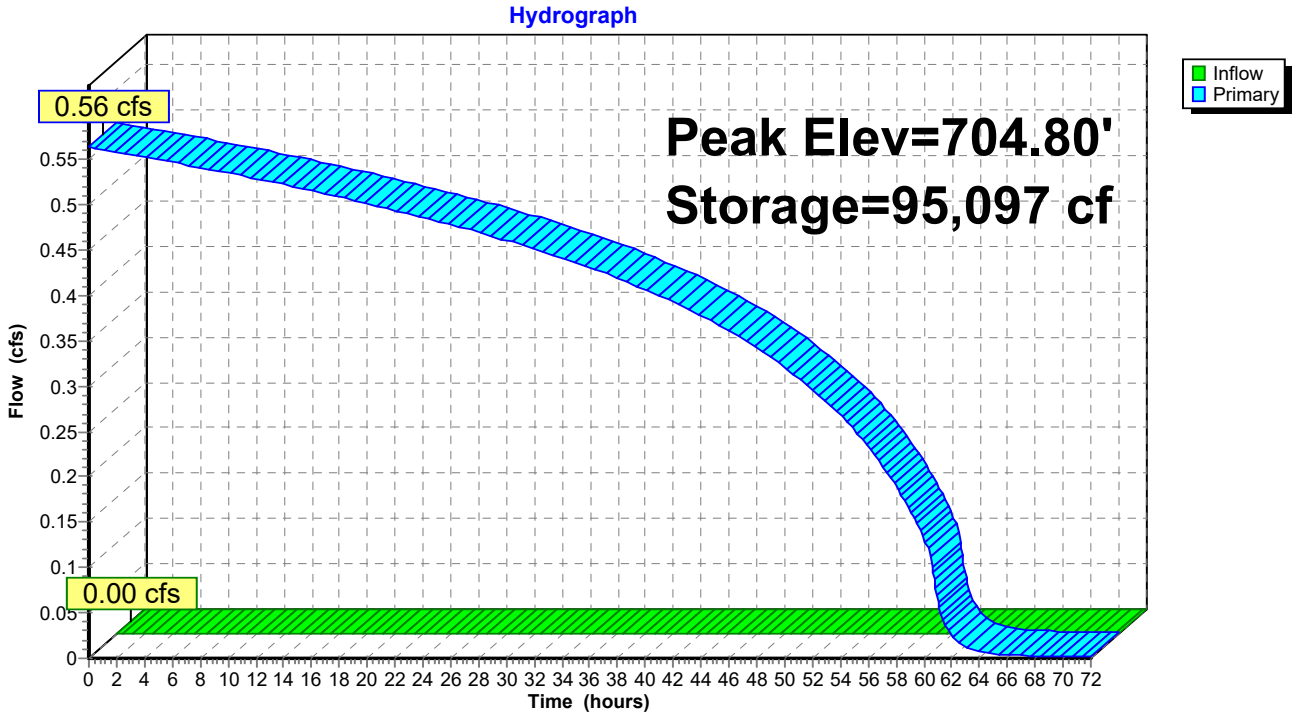
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

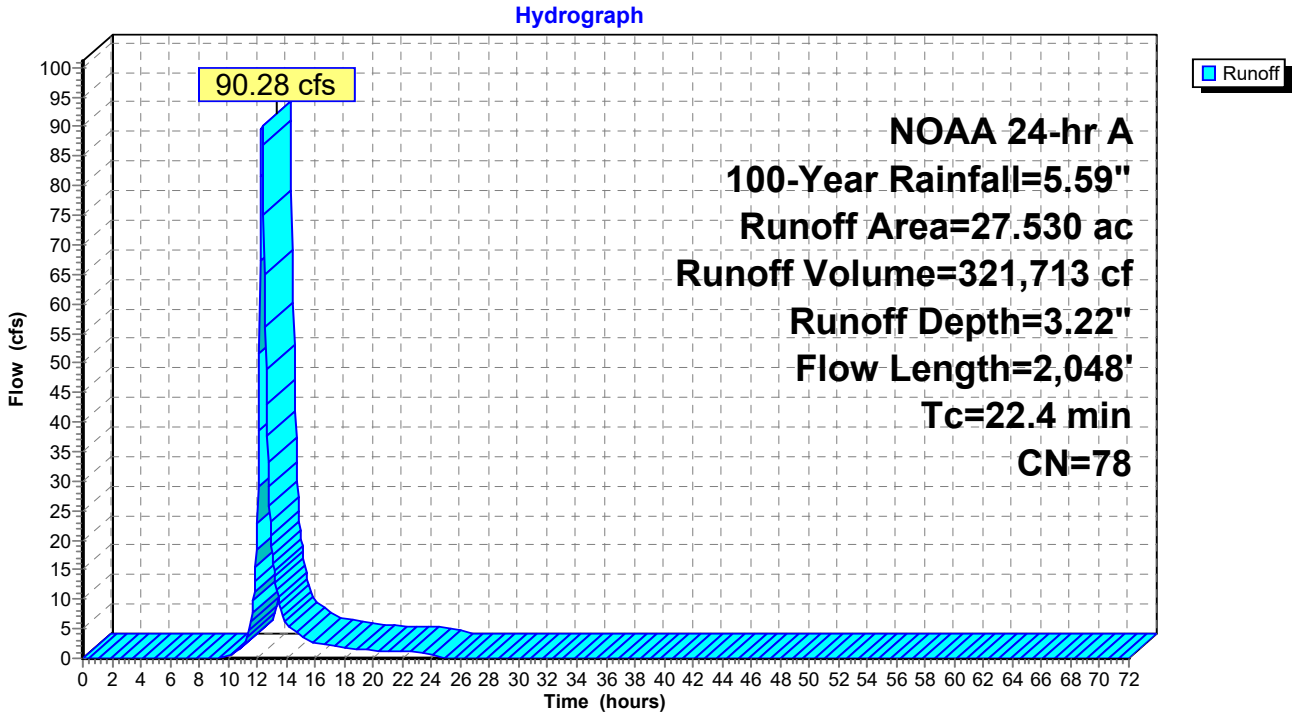
Runoff = 90.28 cfs @ 12.33 hrs, Volume= 321,713 cf, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs, Volume=	1,226 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

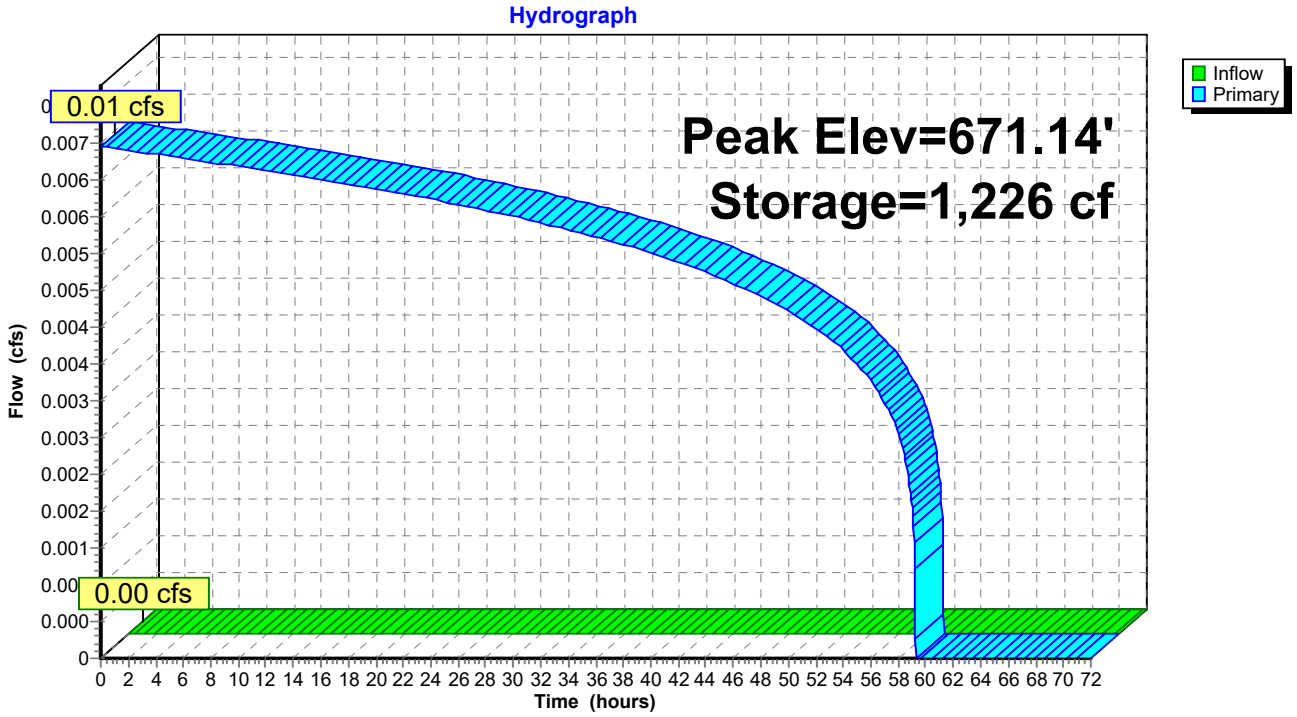
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

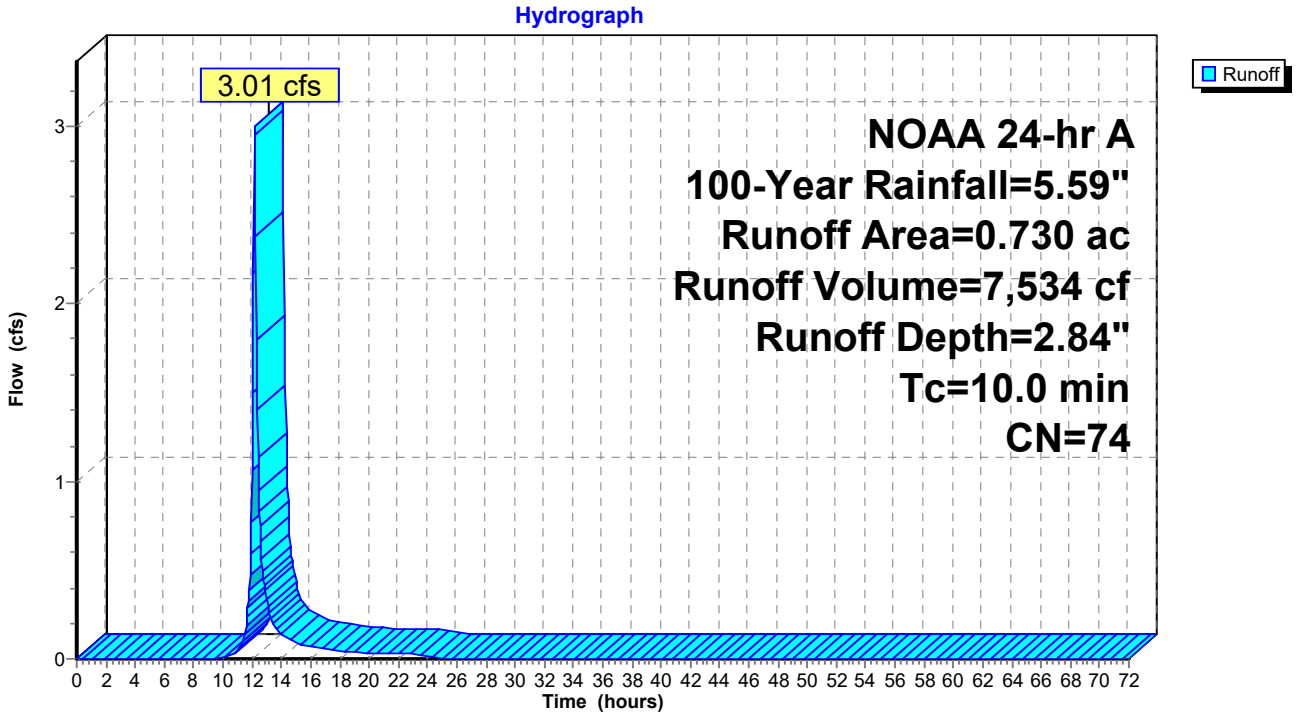
Runoff = 3.01 cfs @ 12.18 hrs, Volume= 7,534 cf, Depth= 2.84"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Subcatchment 7S: Offsite Bypass New Drive

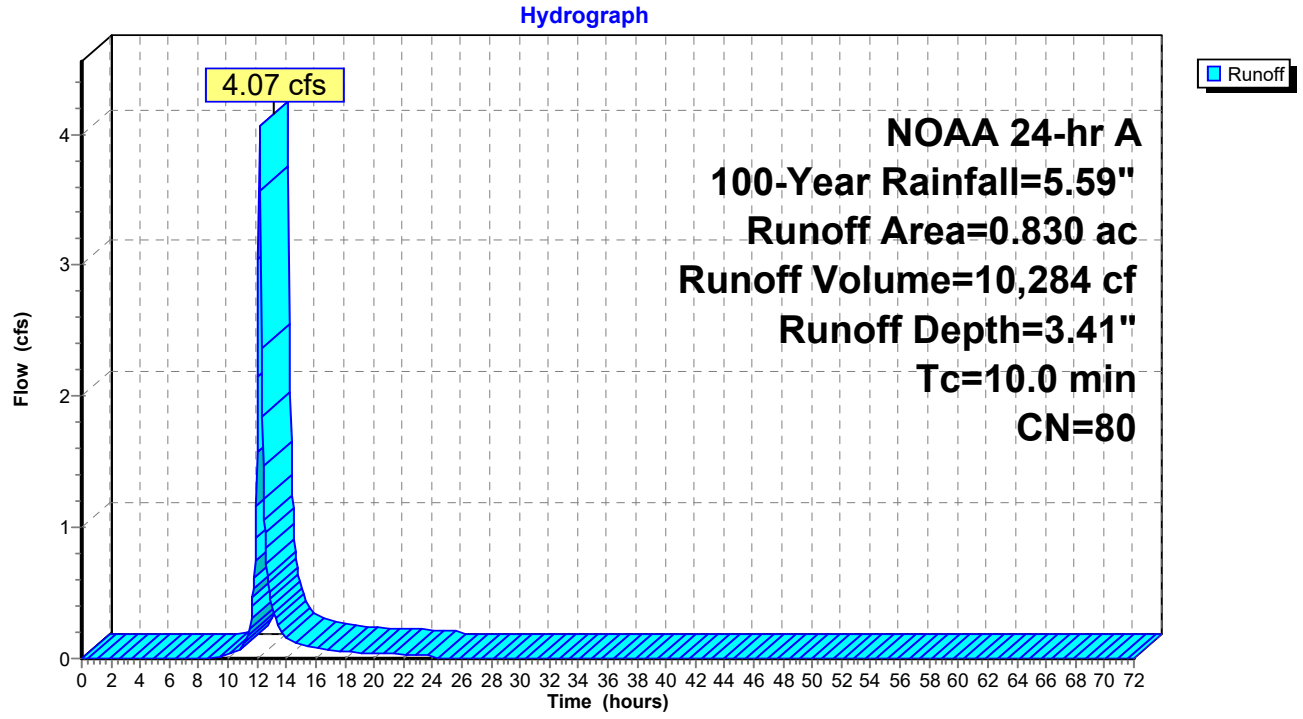
Runoff = 4.07 cfs @ 12.18 hrs, Volume= 10,284 cf, Depth= 3.41"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

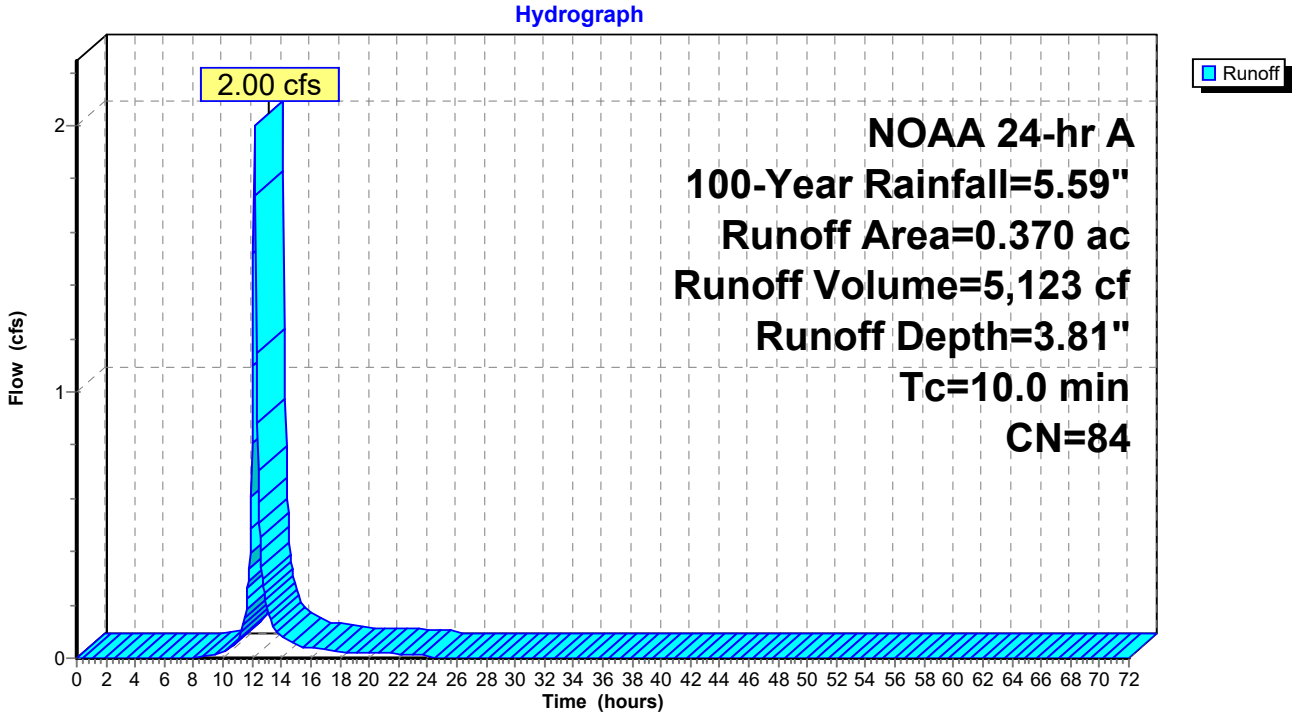
Runoff = 2.00 cfs @ 12.17 hrs, Volume= 5,123 cf, Depth= 3.81"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

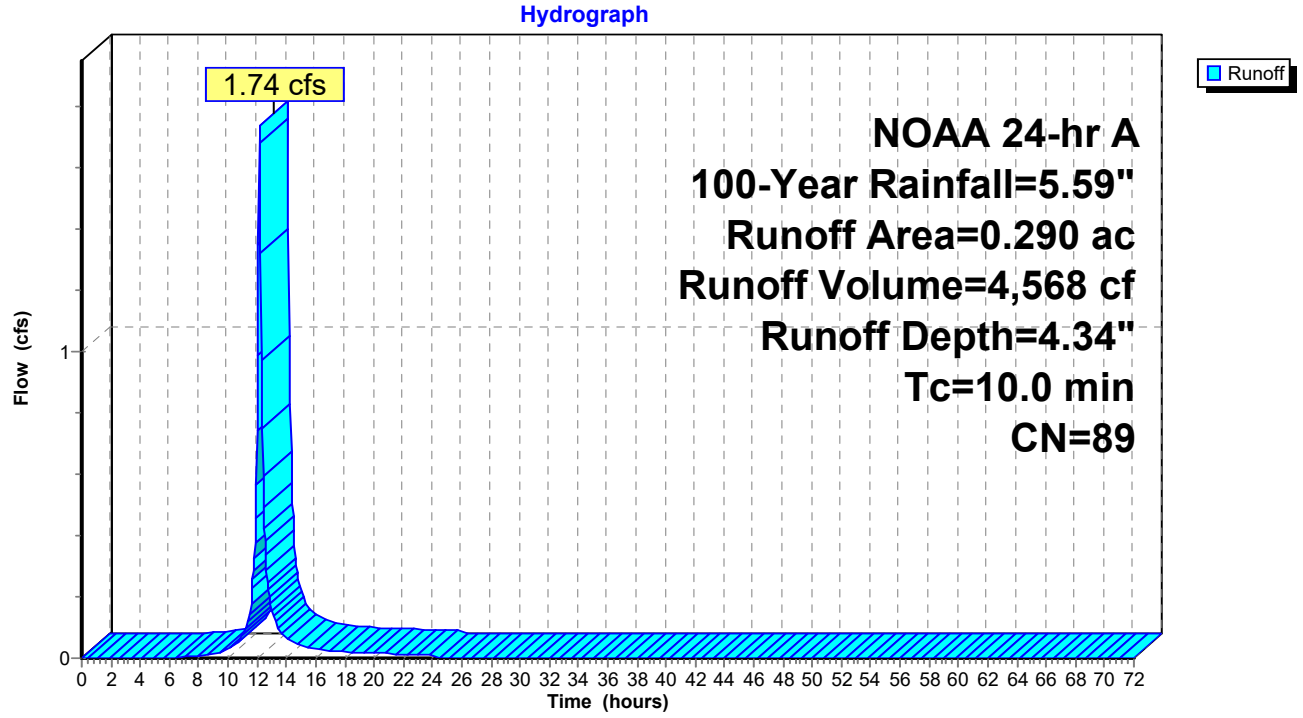
Runoff = 1.74 cfs @ 12.17 hrs, Volume= 4,568 cf, Depth= 4.34"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

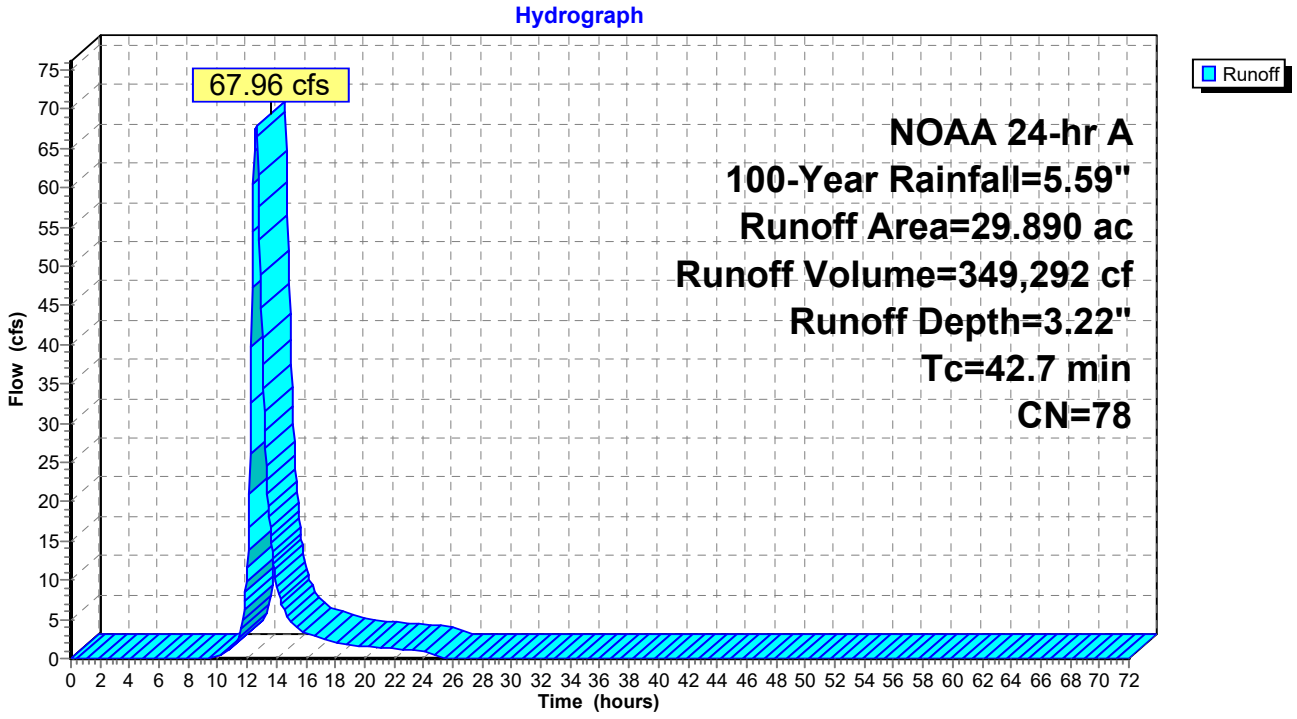
Runoff = 67.96 cfs @ 12.60 hrs, Volume= 349,292 cf, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
4.850	98	Paved parking, HSG D
25.040	74	>75% Grass cover, Good, HSG C
29.890	78	Weighted Average
25.040		83.77% Pervious Area
4.850		16.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 3.91" for 100-Year event
Inflow = 14.98 cfs @ 12.17 hrs, Volume= 38,591 cf
Outflow = 5.78 cfs @ 12.38 hrs, Volume= 38,304 cf, Atten= 61%, Lag= 12.5 min
Primary = 5.78 cfs @ 12.38 hrs, Volume= 38,304 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.72' @ 12.38 hrs Surf.Area= 10,833 sf Storage= 13,300 cf

Plug-Flow detention time= 104.1 min calculated for 38,304 cf (99% of inflow)
Center-of-Mass det. time= 99.4 min (891.5 - 792.2)

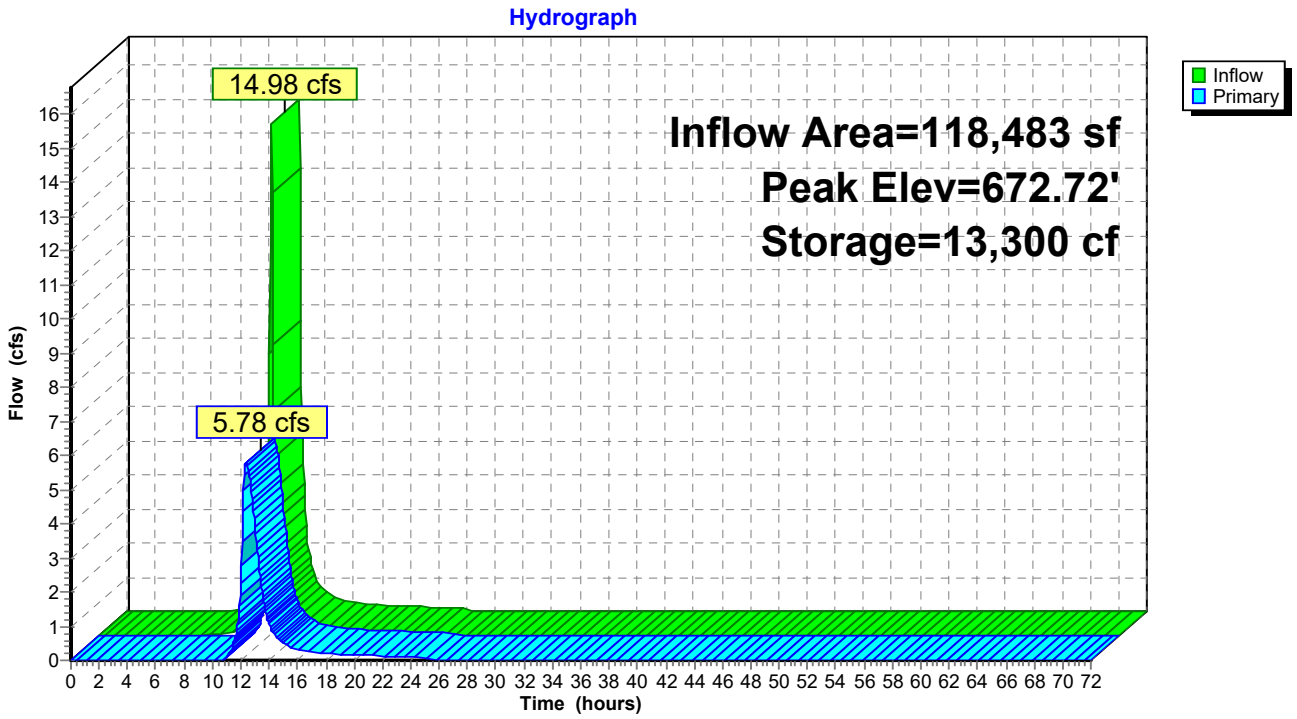
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.77 cfs @ 12.38 hrs HW=672.71' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 5.77 cfs of 19.81 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.90 fps)
  └─**3=Orifice/Grate** (Orifice Controls 5.76 cfs @ 4.69 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 4.21" for 100-Year event
Inflow = 133.16 cfs @ 12.42 hrs, Volume= 579,310 cf
Outflow = 34.24 cfs @ 13.11 hrs, Volume= 553,408 cf, Atten= 74%, Lag= 41.4 min
Primary = 34.24 cfs @ 13.11 hrs, Volume= 553,408 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.46' @ 13.11 hrs Surf.Area= 105,346 sf Storage= 343,791 cf

Plug-Flow detention time= 558.9 min calculated for 553,408 cf (96% of inflow)
Center-of-Mass det. time= 534.3 min (1,339.6 - 805.3)

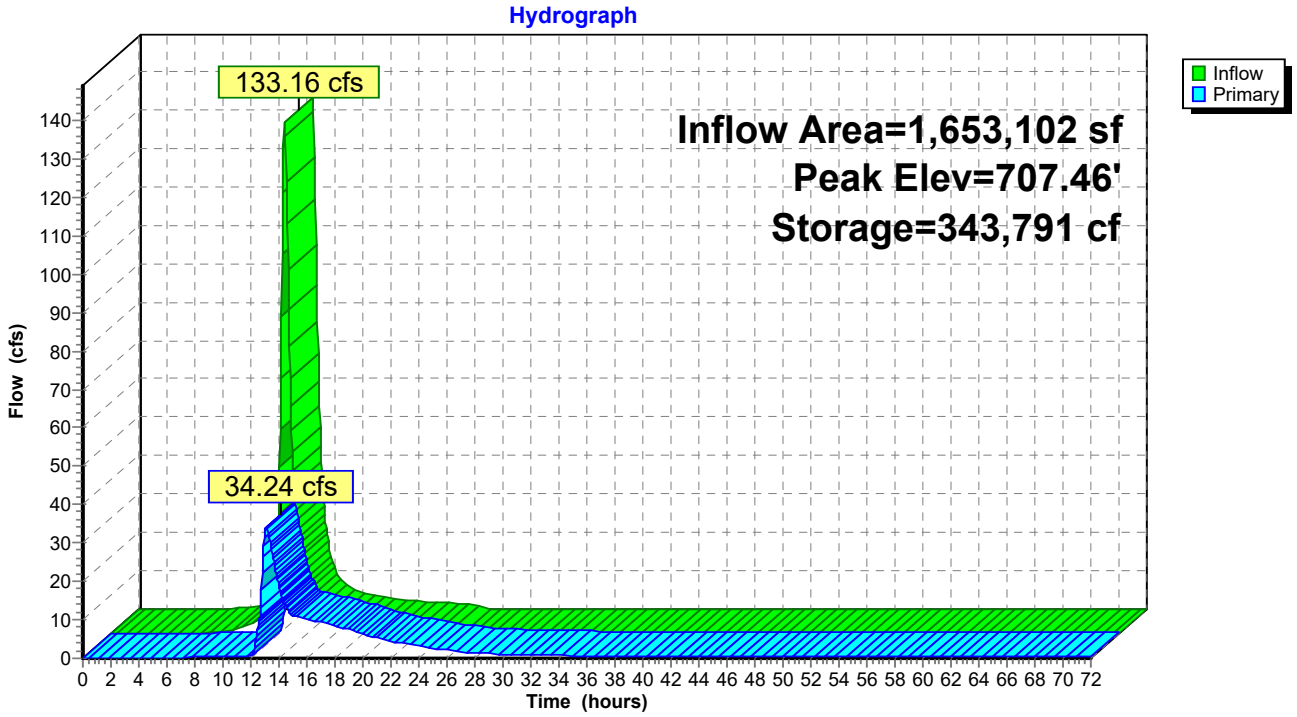
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**18.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	706.98'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=34.20 cfs @ 13.11 hrs HW=707.46' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 34.20 cfs of 53.97 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.81 cfs @ 12.10 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 11.77 cfs @ 6.66 fps)
  └─**4=Orifice/Grate** (Orifice Controls 21.62 cfs @ 2.23 fps)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	7.64	708.80	60.49
701.05	0.01	703.65	0.51	706.25	7.90	708.85	60.72
701.10	0.02	703.70	0.51	706.30	8.10	708.90	60.95
701.15	0.05	703.75	0.52	706.35	8.34	708.95	61.18
701.20	0.07	703.80	0.52	706.40	8.58	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	8.81		
701.30	0.13	703.90	0.53	706.50	9.04		
701.35	0.15	703.95	0.54	706.55	9.26		
701.40	0.16	704.00	0.54	706.60	9.47		
701.45	0.18	704.05	0.55	706.65	9.68		
701.50	0.19	704.10	0.55	706.70	9.88		
701.55	0.20	704.15	0.56	706.75	10.08		
701.60	0.22	704.20	0.56	706.80	10.28		
701.65	0.23	704.25	0.57	706.85	10.47		
701.70	0.24	704.30	0.57	706.90	10.66		
701.75	0.25	704.35	0.58	706.95	10.84		
701.80	0.26	704.40	0.58	707.00	11.21		
701.85	0.27	704.45	0.58	707.05	12.39		
701.90	0.28	704.50	0.59	707.10	14.05		
701.95	0.29	704.55	0.59	707.15	16.05		
702.00	0.30	704.60	0.60	707.20	18.35		
702.05	0.31	704.65	0.60	707.25	20.90		
702.10	0.31	704.70	0.61	707.30	23.68		
702.15	0.32	704.75	0.61	707.35	26.67		
702.20	0.33	704.80	0.61	707.40	29.85		
702.25	0.34	704.85	0.63	707.45	33.22		
702.30	0.35	704.90	0.68	707.50	36.77		
702.35	0.35	704.95	0.75	707.55	40.48		
702.40	0.36	705.00	0.84	707.60	44.34		
702.45	0.37	705.05	0.97	707.65	48.36		
702.50	0.37	705.10	1.11	707.70	52.52		
702.55	0.38	705.15	1.27	707.75	55.43		
702.60	0.39	705.20	1.46	707.80	55.68		
702.65	0.39	705.25	1.67	707.85	55.93		
702.70	0.40	705.30	1.90	707.90	56.18		
702.75	0.41	705.35	2.14	707.95	56.43		
702.80	0.41	705.40	2.40	708.00	56.68		
702.85	0.42	705.45	2.68	708.05	56.92		
702.90	0.43	705.50	2.97	708.10	57.17		
702.95	0.43	705.55	3.28	708.15	57.41		
703.00	0.44	705.60	3.60	708.20	57.65		
703.05	0.44	705.65	3.93	708.25	57.89		
703.10	0.45	705.70	4.26	708.30	58.14		
703.15	0.46	705.75	4.61	708.35	58.38		
703.20	0.46	705.80	4.96	708.40	58.61		
703.25	0.47	705.85	5.31	708.45	58.85		
703.30	0.47	705.90	5.66	708.50	59.09		
703.35	0.48	705.95	6.01	708.55	59.32		
703.40	0.48	706.00	6.36	708.60	59.56		
703.45	0.49	706.05	6.70	708.65	59.79		
703.50	0.49	706.10	7.03	708.70	60.03		
703.55	0.50	706.15	7.35	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

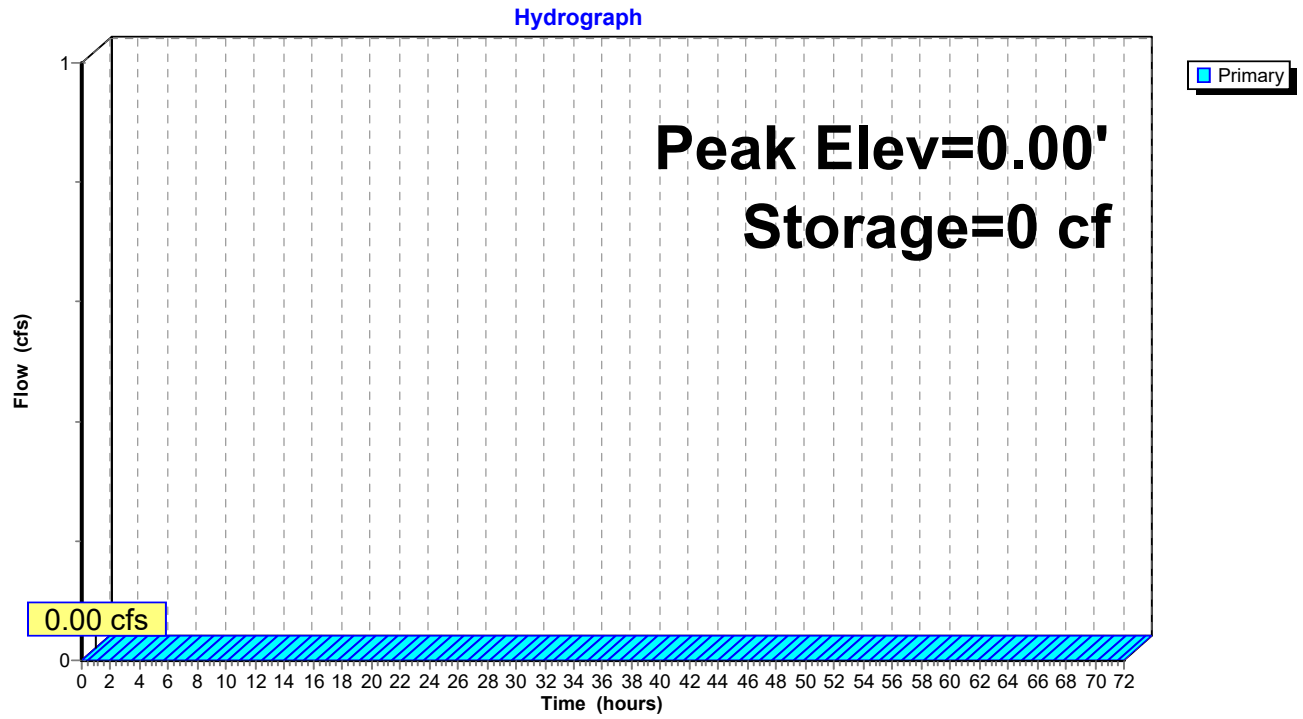
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Events for Subcatchment 1S: Post High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	40.54	171,713	1.27
2-Year	2.84	53.50	226,534	1.68
5-Year	3.46	70.99	301,594	2.23
10-Year	3.94	84.68	361,179	2.67
25-Year	4.59	103.31	443,286	3.28
50-Year	5.09	117.76	507,263	3.75
100-Year	**5.59**	**132.12**	**571,775**	**4.23**

Events for Subcatchment 2S: Post High School (North Route)

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	**0.00**	**0**	**0.00**
2-Year	2.84	0.00	0	0.00
5-Year	3.46	0.00	0	0.00
10-Year	3.94	0.00	0	0.00
25-Year	4.59	0.00	0	0.00
50-Year	5.09	0.00	0	0.00
100-Year	**5.59**	0.00	0	0.00

Events for Link 3L: (new Link)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
1-Year	1.72	1.72	**0.00**
2-Year	2.63	2.63	0.00
5-Year	3.77	3.77	0.00
10-Year	4.61	4.61	0.00
25-Year	5.58	5.58	0.00
50-Year	6.17	6.17	0.00
100-Year	**6.75**	**6.75**	0.00

Events for Subcatchment 3S: Post New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	3.29	8,254	1.20
2-Year	2.84	4.37	10,978	1.60
5-Year	3.46	5.81	14,727	2.15
10-Year	3.94	6.97	17,712	2.58
25-Year	4.59	8.52	21,836	3.18
50-Year	5.09	9.71	25,056	3.65
100-Year	**5.59**	**10.90**	**28,307**	**4.13**

Events for Link 4L: (new Link)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
1-Year	1.68	1.68	**0.00**
2-Year	3.70	3.70	0.00
5-Year	6.95	6.95	0.00
10-Year	8.91	8.91	0.00
25-Year	11.20	11.20	0.00
50-Year	21.64	21.64	0.00
100-Year	**34.41**	**34.41**	0.00

Events for Subcatchment 4S: Pre New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	2.65	6,733	0.85
2-Year	2.84	3.75	9,431	1.19
5-Year	3.46	5.29	13,265	1.68
10-Year	3.94	6.54	16,390	2.07
25-Year	4.59	8.26	20,781	2.63
50-Year	5.09	9.60	24,254	3.06
100-Year	**5.59**	**10.96**	**27,793**	**3.51**

Events for Pond 5P: Pond High School

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.56**	**704.80**	**95,097**
2-Year	0.00	0.56	704.80	95,097
5-Year	0.00	0.56	704.80	95,097
10-Year	0.00	0.56	704.80	95,097
25-Year	0.00	0.56	704.80	95,097
50-Year	0.00	0.56	704.80	95,097
100-Year	0.00	0.56	704.80	95,097

Events for Subcatchment 5S: Pre High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	18.51	70,446	0.70
2-Year	2.84	27.58	101,567	1.02
5-Year	3.46	40.62	146,607	1.47
10-Year	3.94	51.31	183,802	1.84
25-Year	4.59	66.34	236,579	2.37
50-Year	5.09	78.21	278,642	2.79
100-Year	**5.59**	**90.28**	**321,713**	**3.22**

Events for Pond 6P: Pond New Drive

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.01**	**671.14**	**1,226**
2-Year	0.00	0.01	671.14	1,226
5-Year	0.00	0.01	671.14	1,226
10-Year	0.00	0.01	671.14	1,226
25-Year	0.00	0.01	671.14	1,226
50-Year	0.00	0.01	671.14	1,226
100-Year	0.00	0.01	671.14	1,226

Events for Subcatchment 6S: Offsite Bypass High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.51	1,422	0.54
2-Year	2.84	0.82	2,142	0.81
5-Year	3.46	1.26	3,213	1.21
10-Year	3.94	1.63	4,114	1.55
25-Year	4.59	2.16	5,411	2.04
50-Year	5.09	2.58	6,456	2.44
100-Year	**5.59**	**3.01**	**7,534**	**2.84**

Events for Subcatchment 7S: Offsite Bypass New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.94	2,411	0.80
2-Year	2.84	1.35	3,409	1.13
5-Year	3.46	1.93	4,835	1.60
10-Year	3.94	2.40	6,002	1.99
25-Year	4.59	3.04	7,648	2.54
50-Year	5.09	3.55	8,953	2.97
100-Year	**5.59**	**4.07**	**10,284**	**3.41**

Events for Subcatchment 8S: Uncaptured High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.54	1,365	1.02
2-Year	2.84	0.74	1,861	1.39
5-Year	3.46	1.02	2,555	1.90
10-Year	3.94	1.23	3,114	2.32
25-Year	4.59	1.53	3,892	2.90
50-Year	5.09	1.77	4,503	3.35
100-Year	**5.59**	**2.00**	**5,123**	**3.81**

Events for Subcatchment 9S: Uncaptured New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.56	1,412	1.34
2-Year	2.84	0.73	1,848	1.76
5-Year	3.46	0.96	2,443	2.32
10-Year	3.94	1.13	2,913	2.77
25-Year	4.59	1.37	3,559	3.38
50-Year	5.09	1.55	4,061	3.86
100-Year	**5.59**	**1.74**	**4,568**	**4.34**

Events for Subcatchment 10S: Pre High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	13.81	76,485	0.70
2-Year	2.84	20.60	110,274	1.02
5-Year	3.46	30.41	159,175	1.47
10-Year	3.94	38.47	199,559	1.84
25-Year	4.59	49.83	256,859	2.37
50-Year	5.09	58.82	302,529	2.79
100-Year	**5.59**	**67.96**	**349,292**	**3.22**

Events for Pond 11P: Pond New Drive

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	4.23	1.51	671.73	4,115
2-Year	5.72	2.30	671.90	5,329
5-Year	7.74	3.31	672.09	7,008
10-Year	9.34	4.04	672.23	8,331
25-Year	11.56	4.80	672.42	10,219
50-Year	13.27	5.31	672.57	11,742
100-Year	**14.98**	**5.78**	**672.72**	**13,300**

Events for Pond 12P: Pond High School

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	40.75	1.66	705.25	128,798
2-Year	53.82	3.68	705.61	159,415
5-Year	71.45	6.90	706.08	203,191
10-Year	85.27	8.85	706.46	240,578
25-Year	104.16	11.13	707.00	294,988
50-Year	118.66	21.52	707.26	322,527
100-Year	**133.16**	**34.24**	**707.46**	**343,791**

Events for Pond 13P: Pond High School

Event	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.00**	**0**
2-Year	0.00	0.00	0
5-Year	0.00	0.00	0
10-Year	0.00	0.00	0
25-Year	0.00	0.00	0
50-Year	0.00	0.00	0
100-Year	0.00	0.00	0

Appendix D

Local Drainage Map

Storm Sewer Calculations

(10-yr design, 25-yr HGL check)

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO	DESCRIPTION	DATE

LOCAL DRAINAGE MAP - HIGH SCHOOL

2 OF 2

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

0 20 40 80

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

LOCAL DRAINAGE MAP - ENTRY DRIVE

1 OF 2



0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

H:\Engineering\2021-2030\P-0108\02\02\05_DWG\0108020205.dwg, 2/26/2026 12:34:39 PM, ddoscher

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
1	301 TO HW3	300	0.000	4.838	0.0	0.10	12.0	0.00	5.01	0.00	0.00	3.76	38.03	42.17	0.013	36	41.01	0.40	746.87	746.71	5.39	0.003	749.84	750.71	0.83	1.92	751.63	749.71	
2	301 TO 300	301	0.000	4.838	0.0	0.17	11.8	0.00	5.04	0.00	0.00	3.76	31.92	47.16	0.013	36	72.20	0.50	747.23	746.87	4.54	0.002	750.12	754.46	4.23	0.84	750.71	749.97	
3	305 TO 301	305	0.468	2.271	10.0	0.89	10.9	5.41	5.22	0.40	0.19	1.51	20.86	47.16	0.013	36	344.93	0.50	748.95	747.23	3.98	0.002	750.67	756.67	4.72	4.23	754.46	750.31	
4	310 TO 305	310	0.685	0.887	10.0	0.17	10.5	5.41	5.30	0.92	0.63	0.70	3.72	6.15	0.013	12	84.37	2.99	756.19	753.67	5.41	0.011	757.01	759.19	2.00	2.00	756.67	754.49	
5	311 TO 310	311	0.202	0.202	10.0	0.50	10.0	5.41	5.41	0.35	0.07	0.07	0.38	5.04	0.013	12	113.27	2.00	758.46	756.19	1.41	0.003	758.72	760.85	1.39	2.00	759.19	757.46	
6	306 TO 305	306	0.308	0.653	10.0	0.10	10.8	5.41	5.24	0.43	0.13	0.37	14.94	41.96	0.013	24	70.60	3.44	752.38	749.95	6.52	0.007	753.75	756.88	2.50	4.72	756.67	751.32	
7	Pipe - (94)	Structure - (102)	0.000	0.000	0.0	0.73	0.2	0.00	0.00	0.00	0.00	0.00	0.00	12.80	0.013	24	131.20	0.32	754.87	754.45	0.00	0.000	754.87	757.62	0.75	0.43	756.88	754.45	
8	Pipe - (107)	Structure - (104)	0.000	0.000	0.0	0.24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	7.01	0.013	12	42.62	3.87	757.52	755.87	0.00	0.000	757.52	760.25	1.73	0.75	757.62	755.87	
9	200 TO HW2	200	0.000	6.059	0.0	0.81	14.8	0.00	4.52	0.00	0.00	3.35	15.12	15.99	0.013	24	278.19	0.50	733.48	732.09	5.02	0.004	735.22	739.47	3.99	1.83	735.92	734.09	
10	201 TO 200	201	1.405	6.059	10.0	0.23	14.6	5.41	4.55	0.35	0.49	3.35	15.24	15.99	0.013	24	80.30	0.50	733.88	733.48	5.46	0.004	735.50	738.50	2.62	3.99	739.47	735.19	
11	202 TO 201	203	0.560	4.655	10.0	0.36	14.2	5.41	4.61	0.47	0.26	2.85	13.16	14.97	0.013	18	203.36	2.03	738.01	733.88	8.10	0.015	739.37	746.25	6.74	3.12	738.50	735.12	
12	204 TO 203	205	0.365	4.095	10.0	0.40	13.8	5.41	4.68	0.52	0.19	2.59	12.11	16.60	0.013	18	244.27	2.50	744.12	738.01	7.10	0.013	745.44	749.20	3.58	6.74	746.25	739.59	
13	206 TO 205	206	0.512	3.730	10.0	0.31	13.5	5.41	4.73	0.48	0.25	2.40	11.35	12.86	0.013	18	154.31	1.50	746.43	744.12	6.72	0.011	747.72	751.00	3.07	3.58	749.20	745.64	
14	207 TO 206	207	0.417	2.171	10.0	0.54	13.0	5.41	4.82	0.52	0.22	1.18	5.70	6.46	0.013	15	191.51	1.00	748.60	746.68	5.10	0.008	749.58	756.84	6.99	3.07	751.00	748.15	
15	207B TO 207	207B	0.000	0.000	0.0	0.49	0.3	0.00	0.00	0.00	0.00	0.00	0.00	4.86	0.013	12	88.18	1.86	755.48	753.84	0.00	0.000	755.48	758.52	2.04	2.00	756.84	753.84	
16	Pipe - (112)	Structure - (110)	0.000	0.000	0.0	0.11	0.2	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	19.93	-3800.03	-1.37	755.81	0.00	0.000	-1.37	-1.00	n/a	2.37	758.52	755.81	
17	Pipe - (110)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	40.00	-1892.91	-1.35	755.81	0.00	0.000	-1.35	0.00	n/a	2.37	758.52	755.81	
18	302 TO 301A	302	1.803	2.567	10.0	0.18	10.9	5.41	5.23	0.91	1.64	2.25	11.76	16.94	0.013	18	109.57	2.60	750.08	747.23	6.92	0.012	751.39	754.25	2.67	5.73	754.46	749.76	
19	303 TO 302	303	0.195	0.763	10.0	0.36	10.5	5.41	5.30	0.46	0.09	0.61	3.23	5.04	0.013	12	147.67	2.00	753.03	750.08	4.57	0.009	753.80	756.39	2.35	3.17	754.25	751.93	
20	304 TO 303	304	0.066	0.363	10.0	0.17	10.3	5.41	5.34	0.62	0.04	0.32	1.73	5.56	0.013	12	64.45	2.44	754.96	753.39	3.75	0.006	755.52	758.21	2.25	2.00	756.39	753.97	
21	304A TO 304	304A	0.297	0.297	10.0	0.31	10.0	5.41	5.41	0.95	0.28	0.28	1.53	3.39	0.013	12	78.21	0.91	755.92	755.21	3.66	0.006	756.44	758.92	2.00	2.00	758.21	755.73	
22	208 TO 207	208	0.050	1.542	10.0	0.63	12.3	5.41	4.93	0.35	0.02	0.77	3.78	5.59	0.013	15	185.79	0.75	749.99	748.60	3.89	0.005	750.77	756.60	5.36	6.99	756.84	749.91	
23	209 TO 208	209	0.060	0.700	10.0	0.24	12.1	5.41	4.98	0.44	0.03	0.47	2.34	3.56	0.013	12	70.98	1.00	752.92	752.21	4.34	0.008	753.57	758.80	4.88	3.39	756.60	752.86	
24	209A TO 209	209A	0.206	0.206	10.0	0.10	10.0	5.41	5.41	0.95	0.20	0.20	1.06	1.99	0.013	8	35.56	2.73	756.27	755.30	3.89	0.010	756.76	758.94	2.00	2.84	758.80	755.79	
25	210 TO 209	210	0.091	0.434	10.0	0.35	11.8	5.41	5.05	0.43	0.04	0.25	1.25	2.52	0.013	12	67.45	0.50	753.26	752.92	2.05	0.002	753.89	758.72	4.46	4.88	758.80	753.82	
26	211 TO 210	211	0.000	0.343	0.0	0.54	11.2	0.00	5.16	0.00	0.00	0.21	1.08	2.52	0.013	12	100.88	0.50	753.76	753.26	2.59	0.004	754.20	759.31	4.55	4.46	758.72	753.92	
27	212 TO 211	212	0.148	0.343	10.0	0.24	11.0	5.41	5.21	0.56	0.08	0.21	1.09	2.52	0.013	12	45.51	0.50	753.99	753.76	3.09	0.005	754.45	758.12	3.13	4.55	759.31	754.22	
28	Pipe - (102)	212A	0.000	0.097	0.0	0.13	10.1	0.00	5.39	0.00	0.00	0.09	0.50	2.51	0.013	12	20.12	0.50	754.72	754.62	2.49	0.005	755.02	757.72	2.00	2.50	758.12	754.92	
29	212A TO 212	212B	0.097	0.097	10.0	0.09	10.0	5.41	5.41	0.95	0.09	0.09	0.50	2.42	0.013	8	30.03	4.02	756.26	755.05	2.86	0.007	756.59	758.93	2.00	2.00	757.72	755.39	
30	308 TO 305	308	0.000	0.263	0.0	0.33	10.1	0.00	5.39	0.00	0.00	0.25	1.35	3.87	0.013	12	87.97	1.18	754.71	753.67	3.50	0.006	755.20	757.71	2.00	2.00	756.67	754.16	
31	308A TO 308	308A	0.263	0.263	10.0	0.10	10.0	5.41	5.41	0.95	0.25	0.25	1.35	1.74	0.013	8	34.38	2.08	755.76	755.04	4.40	0.012	756.31	758.43	2.00	2.00	757.71	755.59	
32	213 TO 212	213	0.098	0.098	10.0	0.94	10.0	5.41	5.41	0.35	0.03	0.03	0.19	2.52	0.013	12	105.99	0.50	754.52	753.99	0.98	0.002	754.73	758.02	2.50	3.13	758.12	754.60	
33	207A TO 207	207A	0.212	0.212	10.0	0.57	10.0	5.41	5.41	0.95	0.20	0.20	1.09	4.26	0.013	12	153.87	1.43	756.04	753.84	3.25	0.006	756.48	758.83	1.79	2.00	756.84	754.28	
34	303A TO 303	303A	0.206	0.206	10.0	0.25	10.0	5.41	5.41	0.95	0.20	0.20	1.06	1.95	0.013	8	87.34	2.62	756.26	753.97	3.89	0.010	756.75	758.76	1.83	1.75	756.39	754.46	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 10-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
35	307A TO 307	307A	0.167	0.167	10.0	0.42	10.0	5.41	5.41	0.95	0.16	0.16	0.98	1.58	0.013	8	121.34	1.71	755.86	753.78	3.63	0.009	756.33	758.86	2.33	2.43	756.88	754.28	
36	307 TO 306	307	0.093	0.093	10.0	0.79	10.0	5.41	5.41	0.35	0.03	0.03	0.18	2.52	0.013	12	87.80	0.50	753.89	753.45	0.33	0.000	754.41	757.22	2.33	2.43	756.88	754.41	
37	309 TO 306	309	0.085	0.085	10.0	0.47	10.0	5.41	5.41	0.54	0.05	0.05	0.25	5.73	0.013	12	102.50	2.59	756.03	753.38	1.19	0.003	756.24	759.03	2.00	2.50	756.88	754.41	
38	216 TO 208	216	0.040	0.792	10.0	0.35	11.9	5.41	5.02	0.35	0.01	0.28	1.39	1.78	0.013	12	53.33	0.25	750.37	750.24	2.12	0.002	751.13	755.80	4.43	5.36	756.60	751.04	
39	217 TO 216	217	0.251	0.752	10.0	0.49	11.4	5.41	5.11	0.35	0.09	0.26	1.35	1.78	0.013	12	72.89	0.25	750.55	750.37	2.20	0.002	751.25	753.99	2.44	4.43	755.80	751.13	
40	218 TO 217	218	0.251	0.501	10.0	0.64	10.8	5.41	5.24	0.35	0.09	0.18	0.92	1.78	0.013	12	87.83	0.25	750.77	750.55	1.66	0.001	751.38	753.99	2.22	2.43	753.99	751.30	
41	219 TO 218	219	0.251	0.251	10.0	0.76	10.0	5.41	5.41	0.35	0.09	0.09	0.47	1.78	0.013	12	87.83	0.25	750.99	750.77	1.11	0.001	751.46	753.99	2.00	2.21	753.99	751.42	
42	214 TO 206	214	0.754	1.047	10.0	0.26	10.5	5.41	5.30	0.92	0.69	0.97	5.15	8.98	0.013	15	119.85	1.94	749.00	746.68	4.80	0.007	749.91	752.00	1.75	3.07	751.00	748.21	
43	215 TO 214	215	0.292	0.292	10.0	0.49	10.0	5.41	5.41	0.95	0.28	0.28	1.50	3.80	0.013	12	133.64	1.14	750.52	749.00	2.78	0.004	751.04	754.02	2.50	2.00	752.00	750.30	
44	300A TO 300	300A	0.000	0.000	0.0	0.05	0.0	0.00	0.00	0.00	0.00	0.00	6.23	9.01	0.013	12	37.22	6.40	749.25	746.87	7.93	0.031	750.45	752.50	2.25	2.84	750.71	749.31	
45	101 TO 100	101	0.168	1.202	10.0	0.14	11.6	5.41	5.08	0.70	0.12	0.85	4.30	4.57	0.013	15	34.20	0.50	673.17	673.00	3.52	0.004	674.39	676.51	2.09	0.69	674.94	674.25	
46	102 TO 101	102	0.147	0.860	10.0	0.40	11.2	5.41	5.16	0.66	0.10	0.61	3.13	8.78	0.013	12	238.42	6.07	687.65	673.17	4.47	0.009	688.40	692.15	3.50	2.34	676.51	674.34	
47	103 TO 102	103	0.107	0.563	10.0	0.36	10.8	5.41	5.23	0.66	0.07	0.41	2.16	11.37	0.013	12	238.36	10.20	713.46	689.15	4.19	0.007	714.08	716.45	1.99	2.00	692.15	689.77	
48	104 TO 103	104	0.059	0.299	10.0	0.30	10.5	5.41	5.30	0.66	0.04	0.24	1.26	12.61	0.013	12	185.58	12.53	736.71	713.46	2.60	0.004	737.19	739.71	2.00	1.99	716.45	714.30	
49	105 TO 104	105	0.140	0.241	10.0	0.19	10.3	5.41	5.34	0.74	0.10	0.20	1.06	10.32	0.013	12	94.60	8.40	744.66	736.71	2.77	0.004	745.10	748.15	2.49	2.00	739.71	737.28	
50	106 TO 105	106	0.016	0.100	10.0	0.25	10.1	5.41	5.40	0.95	0.02	0.10	0.51	3.56	0.013	12	48.82	1.00	745.15	744.66	1.82	0.003	745.45	748.15	2.00	2.49	748.15	745.24	
51	107 TO 106	107	0.084	0.084	10.0	0.08	10.0	5.41	5.41	0.95	0.08	0.08	0.43	9.98	0.013	12	29.14	7.86	747.44	745.15	2.11	0.004	747.72	750.94	2.50	2.00	748.15	745.50	
52	110 TO 103	110	0.157	0.157	10.0	0.25	10.0	5.41	5.41	0.66	0.10	0.10	0.56	3.56	0.013	12	49.00	1.00	713.95	713.46	1.32	0.001	714.36	716.45	1.50	1.99	716.45	714.35	
53	400 TO 401	400	0.000	0.000	0.0	0.15	0.0	0.00	0.00	0.00	0.00	0.00	34.41	44.10	0.013	30	86.50	1.16	701.00	700.00	7.67	0.007	702.96	703.79	0.29	0.79	703.29	702.50	
54	109 TO 102	109	0.150	0.150	10.0	0.25	10.0	5.41	5.41	0.66	0.10	0.10	0.54	3.56	0.013	12	49.35	1.00	689.64	689.15	2.58	0.005	689.95	692.14	1.50	2.00	692.15	689.46	
55	Pipe - (103)	Null Structure	0.000	0.000	0.0	0.43	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.013	12	77.21	0.65	676.50	676.00	0.00	0.000	676.50	0.00	n/a	n/a	0.00	676.00	
56	TEMP CULVERT 1	Null Structure	0.000	0.000	0.0	0.42	0.0	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.013	18	75.00	0.80	676.10	675.50	0.00	0.000	676.10	0.00	n/a	n/a	0.00	675.50	
57	TEMP CULVERT 4	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
58	Pipe - (105)	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
59	Pipe - (106)	Null Structure	0.000	0.000	0.0	0.34	0.0	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.013	12	61.67	0.81	674.50	674.00	0.00	0.000	674.50	0.00	n/a	n/a	0.00	674.00	
60	TEMP CULVERT 3	Null Structure	0.000	0.000	0.0	0.38	0.0	0.00	0.00	0.00	0.00	0.00	0.00	23.79	0.013	24	67.79	1.11	674.00	673.25	0.00	0.000	674.00	0.00	n/a	n/a	0.00	673.25	
61	108 TO 101	108	0.175	0.175	10.0	0.26	10.0	5.41	5.41	0.70	0.12	0.12	0.66	3.56	0.013	12	55.00	1.00	673.72	673.17	0.88	0.000	674.59	676.51	1.79	2.34	676.51	674.57	
62	111 TO 112	111	0.000	0.000	0.0	0.20	0.0	0.00	0.00	0.00	0.00	0.00	6.75	25.21	0.013	24	80.51	1.24	670.00	669.00	3.37	0.003	670.95	672.75	0.75	0.75	671.75	671.00	
63	Pipe - (113)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	0.00	-1.37	
64	Pipe - (111)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	-1.00	-1.37	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 10-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
1	301 TO HW3	300	0.000	4.838	0.0	0.10	11.9	0.00	5.65	0.00	0.00	3.76	40.44	42.17	0.013	36	41.01	0.40	746.87	746.71	5.72	0.004	749.86	750.71	0.83	1.92	751.63	749.71	
2	301 TO 300	301	0.000	4.838	0.0	0.17	11.8	0.00	5.68	0.00	0.00	3.76	34.34	47.16	0.013	36	72.20	0.50	747.23	746.87	4.87	0.003	750.18	754.46	4.23	0.84	750.71	750.00	
3	305 TO 301	305	0.468	2.271	10.0	0.88	10.9	6.09	5.88	0.40	0.19	1.51	21.86	47.16	0.013	36	344.93	0.50	748.95	747.23	4.00	0.002	750.77	756.67	4.72	4.23	754.46	750.40	
4	310 TO 305	310	0.685	0.887	10.0	0.17	10.5	6.09	5.97	0.92	0.63	0.70	4.19	6.15	0.013	12	84.37	2.99	756.19	753.67	5.80	0.013	757.06	759.19	2.00	2.00	756.67	754.54	
5	311 TO 310	311	0.202	0.202	10.0	0.48	10.0	6.09	6.09	0.35	0.07	0.07	0.43	5.04	0.013	12	113.27	2.00	758.46	756.19	1.48	0.003	758.74	760.85	1.39	2.00	759.19	757.57	
6	306 TO 305	306	0.308	0.653	10.0	0.10	10.8	6.09	5.90	0.43	0.13	0.37	15.18	41.96	0.013	24	70.60	3.44	752.38	749.95	6.57	0.007	753.76	756.88	2.50	4.72	756.67	751.33	
7	Pipe - (94)	Structure - (102)	0.000	0.000	0.0	0.73	0.2	0.00	0.00	0.00	0.00	0.00	0.00	12.80	0.013	24	131.20	0.32	754.87	754.45	0.00	0.000	754.87	757.62	0.75	0.43	756.88	754.45	
8	Pipe - (107)	Structure - (104)	0.000	0.000	0.0	0.24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	7.01	0.013	12	42.62	3.87	757.52	755.87	0.00	0.000	757.52	760.25	1.73	0.75	757.62	755.87	
9	200 TO HW2	200	0.000	6.059	0.0	0.80	14.7	0.00	5.12	0.00	0.00	3.35	17.12	15.99	0.013	24	278.19	0.50	733.48	732.09	5.45	0.006	735.68	739.47	3.99	1.83	735.92	734.09	
10	201 TO 200	201	1.405	6.059	10.0	0.23	14.5	6.09	5.16	0.35	0.49	3.35	17.25	15.99	0.013	24	80.30	0.50	733.88	733.48	5.49	0.006	736.14	738.50	2.62	3.99	739.47	735.68	
11	202 TO 201	203	0.560	4.655	10.0	0.35	14.1	6.09	5.22	0.47	0.26	2.85	14.89	14.97	0.013	18	203.36	2.03	738.01	733.88	8.43	0.020	739.51	746.25	6.74	3.12	738.50	735.51	
12	204 TO 203	205	0.365	4.095	10.0	0.39	13.7	6.09	5.29	0.52	0.19	2.59	13.70	16.60	0.013	18	244.27	2.50	744.12	738.01	7.92	0.016	745.49	749.20	3.58	6.74	746.25	739.68	
13	206 TO 205	206	0.512	3.730	10.0	0.31	13.4	6.09	5.35	0.48	0.25	2.40	12.84	12.86	0.013	18	154.31	1.50	746.43	744.12	7.27	0.014	747.92	751.00	3.07	3.58	749.20	745.69	
14	207 TO 206	207	0.417	2.171	10.0	0.53	12.9	6.09	5.45	0.52	0.22	1.18	6.45	6.46	0.013	15	191.51	1.00	748.60	746.68	5.25	0.010	750.22	756.84	6.99	3.07	751.00	748.31	
15	207B TO 207	207B	0.000	0.000	0.0	0.49	0.3	0.00	0.00	0.00	0.00	0.00	0.00	4.86	0.013	12	88.18	1.86	755.48	753.84	0.00	0.000	755.48	758.52	2.04	2.00	756.84	753.84	
16	Pipe - (112)	Structure - (110)	0.000	0.000	0.0	0.11	0.2	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	19.93	-3800.03	-1.37	755.81	0.00	0.000	-1.37	-1.00	n/a	2.37	758.52	755.81	
17	Pipe - (110)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	40.00	-1892.91	-1.35	755.81	0.00	0.000	-1.35	0.00	n/a	2.37	758.52	755.81	
18	302 TO 301A	302	1.803	2.567	10.0	0.17	10.8	6.09	5.89	0.91	1.64	2.25	13.25	16.94	0.013	18	109.57	2.60	750.08	747.23	7.68	0.015	751.44	754.25	2.67	5.73	754.46	749.67	
19	303 TO 302	303	0.195	0.763	10.0	0.35	10.5	6.09	5.98	0.46	0.09	0.61	3.63	5.04	0.013	12	147.67	2.00	753.03	750.08	4.98	0.011	753.84	756.39	2.35	3.17	754.25	752.07	
20	304 TO 303	304	0.066	0.363	10.0	0.17	10.3	6.09	6.02	0.62	0.04	0.32	1.94	5.56	0.013	12	64.45	2.44	754.96	753.39	3.59	0.005	755.55	758.21	2.25	2.00	756.39	754.12	
21	304A TO 304	304A	0.297	0.297	10.0	0.30	10.0	6.09	6.09	0.95	0.28	0.28	1.72	3.39	0.013	12	78.21	0.91	755.92	755.21	3.83	0.007	756.48	758.92	2.00	2.00	758.21	755.77	
22	208 TO 207	208	0.050	1.542	10.0	0.62	12.3	6.09	5.57	0.35	0.02	0.77	4.26	5.59	0.013	15	185.79	0.75	749.99	748.60	3.48	0.004	751.22	756.60	5.36	6.99	756.84	750.46	
23	209 TO 208	209	0.060	0.700	10.0	0.24	12.0	6.09	5.62	0.44	0.03	0.47	2.65	3.56	0.013	12	70.98	1.00	752.92	752.21	4.58	0.008	753.61	758.80	4.88	3.39	756.60	752.90	
24	209A TO 209	209A	0.206	0.206	10.0	0.10	10.0	6.09	6.09	0.95	0.20	0.20	1.19	1.99	0.013	8	35.56	2.73	756.27	755.30	4.12	0.011	756.78	758.94	2.00	2.84	758.80	755.81	
25	210 TO 209	210	0.091	0.434	10.0	0.34	11.7	6.09	5.70	0.43	0.04	0.25	1.42	2.52	0.013	12	67.45	0.50	753.26	752.92	2.11	0.002	753.97	758.72	4.46	4.88	758.80	753.88	
26	211 TO 210	211	0.000	0.343	0.0	0.53	11.2	0.00	5.81	0.00	0.00	0.21	1.22	2.52	0.013	12	100.88	0.50	753.76	753.26	2.64	0.004	754.24	759.31	4.55	4.46	758.72	753.99	
27	212 TO 211	212	0.148	0.343	10.0	0.24	10.9	6.09	5.87	0.56	0.08	0.21	1.23	2.52	0.013	12	45.51	0.50	753.99	753.76	3.19	0.005	754.48	758.12	3.13	4.55	759.31	754.26	
28	Pipe - (102)	212A	0.000	0.097	0.0	0.13	10.1	0.00	6.07	0.00	0.00	0.09	0.56	2.51	0.013	12	20.12	0.50	754.72	754.62	2.57	0.005	755.04	757.72	2.00	2.50	758.12	754.94	
29	212A TO 212	212B	0.097	0.097	10.0	0.09	10.0	6.09	6.09	0.95	0.09	0.09	0.56	2.42	0.013	8	30.03	4.02	756.26	755.05	2.99	0.007	756.61	758.93	2.00	2.00	757.72	755.41	
30	308 TO 305	308	0.000	0.263	0.0	0.32	10.1	0.00	6.07	0.00	0.00	0.25	1.51	3.87	0.013	12	87.97	1.18	754.71	753.67	3.65	0.006	755.23	757.71	2.00	2.00	756.67	754.19	
31	308A TO 308	308A	0.263	0.263	10.0	0.10	10.0	6.09	6.09	0.95	0.25	0.25	1.52	1.74	0.013	8	34.38	2.08	755.76	755.04	4.74	0.015	756.34	758.43	2.00	2.00	757.71	755.62	
32	213 TO 212	213	0.098	0.098	10.0	0.91	10.0	6.09	6.09	0.35	0.03	0.03	0.21	2.52	0.013	12	105.99	0.50	754.52	753.99	0.97	0.001	754.75	758.02	2.50	3.13	758.12	754.64	
33	207A TO 207	207A	0.212	0.212	10.0	0.55	10.0	6.09	6.09	0.95	0.20	0.20	1.23	4.26	0.013	12	153.87	1.43	756.04	753.84	3.38	0.006	756.51	758.83	1.79	2.00	756.84	754.31	
34	303A TO 303	303A	0.206	0.206	10.0	0.25	10.0	6.09	6.09	0.95	0.20	0.20	1.19	1.95	0.013	8	87.34	2.62	756.26	753.97	4.12	0.011	756.77	758.76	1.83	1.75	756.39	754.49	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 25-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
35	307A TO 307	307A	0.167	0.167	10.0	0.41	10.0	6.09	6.09	0.95	0.16	0.16	1.09	1.58	0.013	8	121.34	1.71	755.86	753.78	3.93	0.010	756.35	758.86	2.33	2.43	756.88	754.28	
36	307 TO 306	307	0.093	0.093	10.0	0.77	10.0	6.09	6.09	0.35	0.03	0.03	0.20	2.52	0.013	12	87.80	0.50	753.89	753.45	0.36	0.000	754.43	757.22	2.33	2.43	756.88	754.43	
37	309 TO 306	309	0.085	0.085	10.0	0.45	10.0	6.09	6.09	0.54	0.05	0.05	0.28	5.73	0.013	12	102.50	2.59	756.03	753.38	1.24	0.003	756.25	759.03	2.00	2.50	756.88	754.43	
38	216 TO 208	216	0.040	0.792	10.0	0.35	11.9	6.09	5.66	0.35	0.01	0.28	1.57	1.78	0.013	12	53.33	0.25	750.37	750.24	2.00	0.002	751.45	755.80	4.43	5.36	756.60	751.35	
39	217 TO 216	217	0.251	0.752	10.0	0.48	11.4	6.09	5.77	0.35	0.09	0.26	1.52	1.78	0.013	12	72.89	0.25	750.55	750.37	1.93	0.002	751.55	753.99	2.44	4.43	755.80	751.46	
40	218 TO 217	218	0.251	0.501	10.0	0.62	10.8	6.09	5.91	0.35	0.09	0.18	1.04	1.78	0.013	12	87.83	0.25	750.77	750.55	1.37	0.001	751.65	753.99	2.22	2.43	753.99	751.58	
41	219 TO 218	219	0.251	0.251	10.0	0.74	10.0	6.09	6.09	0.35	0.09	0.09	0.53	1.78	0.013	12	87.83	0.25	750.99	750.77	0.82	0.000	751.69	753.99	2.00	2.21	753.99	751.67	
42	214 TO 206	214	0.754	1.047	10.0	0.26	10.5	6.09	5.97	0.92	0.69	0.97	5.80	8.98	0.013	15	119.85	1.94	749.00	746.68	5.22	0.009	749.96	752.00	1.75	3.07	751.00	748.39	
43	215 TO 214	215	0.292	0.292	10.0	0.47	10.0	6.09	6.09	0.95	0.28	0.28	1.69	3.80	0.013	12	133.64	1.14	750.52	749.00	2.98	0.004	751.07	754.02	2.50	2.00	752.00	750.40	
44	300A TO 300	300A	0.000	0.000	0.0	0.05	0.0	0.00	0.00	0.00	0.00	0.00	6.23	9.01	0.013	12	37.22	6.40	749.25	746.87	7.93	0.031	750.53	752.50	2.25	2.84	750.71	749.39	
45	101 TO 100	101	0.168	1.202	10.0	0.13	11.5	6.09	5.73	0.70	0.12	0.85	4.86	4.57	0.013	15	34.20	0.50	673.17	673.00	3.96	0.006	674.42	676.51	2.09	0.69	674.94	674.25	
46	102 TO 101	102	0.147	0.860	10.0	0.38	11.2	6.09	5.82	0.66	0.10	0.61	3.53	8.78	0.013	12	238.42	6.07	687.65	673.17	4.88	0.010	688.45	692.15	3.50	2.34	676.51	674.35	
47	103 TO 102	103	0.107	0.563	10.0	0.35	10.8	6.09	5.90	0.66	0.07	0.41	2.43	11.37	0.013	12	238.36	10.20	713.46	689.15	4.41	0.008	714.12	716.45	1.99	2.00	692.15	689.81	
48	104 TO 103	104	0.059	0.299	10.0	0.29	10.5	6.09	5.97	0.66	0.04	0.24	1.42	12.61	0.013	12	185.58	12.53	736.71	713.46	2.73	0.004	737.22	739.71	2.00	1.99	716.45	714.37	
49	105 TO 104	105	0.140	0.241	10.0	0.18	10.3	6.09	6.01	0.74	0.10	0.20	1.20	10.32	0.013	12	94.60	8.40	744.66	736.71	2.87	0.004	745.12	748.15	2.49	2.00	739.71	737.32	
50	106 TO 105	106	0.016	0.100	10.0	0.24	10.1	6.09	6.07	0.95	0.02	0.10	0.58	3.56	0.013	12	48.82	1.00	745.15	744.66	1.89	0.003	745.47	748.15	2.00	2.49	748.15	745.28	
51	107 TO 106	107	0.084	0.084	10.0	0.07	10.0	6.09	6.09	0.95	0.08	0.08	0.49	9.98	0.013	12	29.14	7.86	747.44	745.15	2.17	0.004	747.74	750.94	2.50	2.00	748.15	745.52	
52	110 TO 103	110	0.157	0.157	10.0	0.24	10.0	6.09	6.09	0.66	0.10	0.10	0.63	3.56	0.013	12	49.00	1.00	713.95	713.46	1.27	0.001	714.42	716.45	1.50	1.99	716.45	714.41	
53	400 TO 401	400	0.000	0.000	0.0	0.15	0.0	0.00	0.00	0.00	0.00	0.00	34.41	44.10	0.013	30	86.50	1.16	701.00	700.00	7.67	0.007	702.96	703.79	0.29	0.79	703.29	702.50	
54	109 TO 102	109	0.150	0.150	10.0	0.24	10.0	6.09	6.09	0.66	0.10	0.10	0.60	3.56	0.013	12	49.35	1.00	689.64	689.15	2.68	0.005	689.97	692.14	1.50	2.00	692.15	689.48	
55	Pipe - (103)	Null Structure	0.000	0.000	0.0	0.43	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.013	12	77.21	0.65	676.50	676.00	0.00	0.000	676.50	0.00	n/a	n/a	0.00	676.00	
56	TEMP CULVERT 1	Null Structure	0.000	0.000	0.0	0.42	0.0	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.013	18	75.00	0.80	676.10	675.50	0.00	0.000	676.10	0.00	n/a	n/a	0.00	675.50	
57	TEMP CULVERT 4	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
58	Pipe - (105)	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
59	Pipe - (106)	Null Structure	0.000	0.000	0.0	0.34	0.0	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.013	12	61.67	0.81	674.50	674.00	0.00	0.000	674.50	0.00	n/a	n/a	0.00	674.00	
60	TEMP CULVERT 3	Null Structure	0.000	0.000	0.0	0.38	0.0	0.00	0.00	0.00	0.00	0.00	0.00	23.79	0.013	24	67.79	1.11	674.00	673.25	0.00	0.000	674.00	0.00	n/a	n/a	0.00	673.25	
61	108 TO 101	108	0.175	0.175	10.0	0.26	10.0	6.09	6.09	0.70	0.12	0.12	0.74	3.56	0.013	12	55.00	1.00	673.72	673.17	0.96	0.000	674.67	676.51	1.79	2.34	676.51	674.65	
62	111 TO 112	111	0.000	0.000	0.0	0.20	0.0	0.00	0.00	0.00	0.00	0.00	6.75	25.21	0.013	24	80.51	1.24	670.00	669.00	3.37	0.003	670.95	672.75	0.75	0.75	671.75	671.00	
63	Pipe - (113)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	0.00	-1.37	
64	Pipe - (111)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	-1.00	-1.37	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 25-yrs.

Project File: 2026-02-25 - 029 - STM.sws

THE KLEINGERS GROUP

CINCINNATI
COLUMBUS
DAYTON
LOUISVILLE

6219 Centre Park Drive
West Chester, OH 45069
phone 513.779.7851
fax 513.779.7852
www.kleingers.com

Stormwater and Detention Report

For

The City of Monroe

Monroe High School



March 2, 2026

Prepared by: Michael George, P.E.

JOB #: 010862.029

Contents

Stormwater Management Plan 1
Site Description 1
Applicable Permits 2
Hydrologic Methodologies 2
Critical Year Event Calculation 2
Water Quality Volume 2
Overland Detention and Structure 3
Results Summary 3
Storm Sewer Calculations 5
Results Summary 5
Appendices .....
Appendix A: Water Quality Calculations & Outlet Structure Detail 6
Appendix B: Drainage Maps – Pre-Developed Maps & Post-Developed Maps 7
Appendix C: HydroCAD Calculations 8
Appendix D: Local Drainage Map & Storm Sewer Calculations 9

Tables and Figures

Table 1: Critical Year Calculation 2
Table 2: Critical Storm 1-yr Events 2
Table 3: Predeveloped Flow Rates 3
Table 4: Post Developed Flows and Detention 3

Stormwater Management Plan

Site Description

The existing site is located at 220 Yankee Road in Monroe, Ohio. The development includes an existing school and parking lot that is served by an existing dry detention pond. The proposed project includes a new school building and new parking lots to the east of the existing school, including new utilities and storm sewer. A new driveway from Yankee Road to the parking lot of the existing school building is also being proposed. These two areas of development will each require their own basin with individual analyses but are under one stormwater management plan.

Drainage from the school area in the pre-developed and post-developed conditions generally drains north to south. Prior to the construction of the existing school, the site consisted primarily of farmland, with some meadow area. The pre-developed area is 29.89 acres consisting of row crops, farmstead, and meadow, with curve numbers of 78, 74, and 58, respectively. This results in a weighted curve number of 71. All the proposed improvements associated with the new high school building will be routed to the existing detention pond on the south of the site which is being expanded to accommodate the increase in impervious area. The post-developed captured area is 37.22 acres with a curve number of 88. Per the OEPA general construction stormwater permit requirements, hydrologic soil groups for curve number calculations were adjusted to post construction conditions for the post developed curve number calculation. The tributary area includes 0.73 acres of bypass with a curve number of 74. There are 0.37 acres of post-developed uncaptured area with a curve number of 84 (see Appendix B for Pre and Post Developed Drainage Maps).

Drainage from the new driveway area in the pre-developed and post-developed conditions generally drains east to west. The existing primary land use of the 2.18 acres of disturbed area is wooded and agricultural cover, with curve numbers of 77 and 85, respectively. Using a weighted average, the curve number for the pre-developed area is 81. The post-developed captured area is 1.89 acres with a weighted curve number of 87. Per the OEPA general construction stormwater permit requirements, hydrologic soil groups for curve number calculations were adjusted to post construction conditions for the post developed curve number calculation. There are 0.83 acres of offsite bypass with a curve number of 80. There are also 0.29 acres of post-developed uncaptured area with a curve number of 89 (see Appendix B for Pre and Post Developed Drainage Maps).

The new dry detention basins will provide both detention and water quality treatment which is accomplished through the provision of an outlet structure, protected inlet flow for stormwater pretreatment, and an emergency spillway (see Appendix A for outlet structure and spillway details).

To set the time of concentration for the pre-developed condition of the south basin, a conservative approach was taken: The Kleingers Group prepared a stormwater report in May 2002 calculating a time of concentration of 42.75 minutes. Since this time, modern hydrologic calculations use a reduced maximum length of sheet flow, resulting in reduced times of concentration. By keeping the past calculated time of concentration, the allowable release rate in the new post-developed condition is reduced. New calculated times of concentration for the pre-developed condition of the north basin and for the post developed conditions of both basins can be found in the HydroCAD report in Appendix C.

Applicable Permits

An OEPA NOI will be needed. Additionally, the proposed site will disturb more than one acre and be subject to the post-construction stormwater management requirements set forth in the Construction Site Storm Water General Permit from the Ohio EPA. The permit requires projects to capture and treat stormwater for a storm event of 0.90 inches.

Hydrologic Methodologies

The City of Monroe requires projects to adhere to the stormwater management requirements Monroe OH Code of Ordinances. These regulations stipulate a critical year storm method where the percent increase in runoff from the 1 year, 24-hour storm frequency determines the critical storm event (Table 1 & 2). The post-developed runoff must be controlled for storms of a frequency between one year and the critical storm so that the rate of runoff does not exceed the peak rate of runoff for a pre-developed, 24-hour, 1-year frequency storm. Additionally, under post-developed conditions, runoff rates for all storm events greater than the critical storm event need only be controlled to meet pre-developed peak discharge rates for each of those same storms.

Rainfall data was obtained from NOAA Atlas 14 for the City of Monroe.

Table 1: Critical Year Calculation

IF THE PERCENTAGE OF INCREASE IN VOLUME OF RUNOFF IS:		
Equal to or greater than	and less than	The critical storm for peak rate control will be
N/A	10	1 year
10	20	2 year
20	50	5 year
50	100	10 year
100	250	25 year
250	500	50 year
500	N/A	100 year

Critical Year Event Calculation – South Basin

The volume and flows that were obtained for the pre-developed and post developed 1-yr case were derived from the HydroCAD calculations for the detention model shown in Appendix C, and are shown in the following tables:

Table 2: Critical Storm 1-yr Events

SOUTH BASIN PRE-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	50,185	13.81

SOUTH BASIN POST-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	173,078	41.08

(173,078 – 50,185) / 50,185 = 2.449 = 244.9 % Increase in Volume therefore the Critical Year Storm is the 25-year frequency.

Water Quality Volume – South Basin

The required water quality volume (WQv) has been calculated per the OEPA equation in Appendix A. The required WQv = 57,449 Cubic Feet (CF). In lieu of a forebay and micropool, 20% extra volume was added to the

water quality volume, making the WQv = 68,938 Cubic Feet (CF). In addition to the extra volume, we are providing a protected outlet of perforated PVC embedded in rock. This volume is handled with a 3.5" drilled orifice in the riser pipe of the outlet structure. The outlet structure detail and water quality drawdown calculations are also shown in Appendix A.

Overland Detention and Structure – South Basin

To ensure the post developed stormwater flows are kept under the allowable release rate of the new dry pond per the City of Monroe's regulations, a control structure was designed to regulate the release. The outlet structure consists of the following: The outlet structure is a modified 2-5 catch basin with a 3.5" diameter water quality orifice at invert elevation 701.00'. For stormwater quantity management, the following orifices and windows are provided: an 15" diameter orifice at elevation 704.80' and four windows, one on each side of the structure that are 60" wide and 12" in height, at invert elevation 707.07'. The grate elevation of the structure is 708.57'. The 30" culvert out was designed to convey 100-year flows if it must. The detention basin also has an emergency spillway with a width of 35'. The bottom of the spillway is at elevation 708.54' and the top is at elevation 709.00.' See Appendix A for outlet structure details and spillways details/calculations.

Results Summary – South Basin

The detention volume was checked by using HydroCAD calculations included in Appendix C of this report. A list of regulated rates and storage elevations of the detention facility are shown below.

Table 3: Predeveloped Flow Rates for South Basin

Storm Frequency (YR)	Pre-Developed On-Site Release Rate (CFS)	Offsite Bypass (CFS)	Allowable On-Site Release Rate (CFS)
1	7.26	0.51	7.77
2	12.38	0.82	8.08
5	20.38	1.26	8.52
10	27.24	1.63	8.89
25	37.23	2.16	9.42
50	45.35	2.58	47.93
100	53.73	3.01	56.74

Table 4: Post Developed Flows and Detention for South Basin

Storm Frequency (YR)	Post-Developed Release Rate (CFS)	Detention Elevation (FT)
1	1.63	705.25
2	3.51	705.62
5	6.17	706.11
10	7.66	706.51
25	9.35	707.07
50	19.17	707.34
100	31.56	707.54

Based on the calculated findings, the total post-development release rates are below the allowable release rate for the South Basin.

Critical Year Event Calculation – North Basin

The volume and flows that were obtained for the pre-developed and post developed 1-yr case were derived from the HydroCAD calculations for the detention model shown in Appendix C, and are shown in the following tables:

Table 4: Critical Storm 1-yr Events

NORTH BASIN PRE-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	6,733	2.65

NORTH BASIN POST-DEVELOPMENT		
STORM FREQUENCY	HYDROLOGIC VOLUME (CF)	HYDROLOGIC RUNOFF RATE (CFS)
1-YR	10,665	3.85

(10,665 – 6,733) / 6,733 = 0.584 = 58.4 % Increase in Volume therefore the Critical Year Storm is the 10-year frequency.

Water Quality Volume – North Basin

The required water quality volume (WQv) has been calculated per the OEPA equation in Appendix A. The required WQv = 2,650 Cubic Feet (CF). In lieu of a forebay and micropool, 20% extra volume was added to the water quality volume, making the WQv = 3,179 Cubic Feet (CF). In addition to the extra volume, we are providing a protected outlet of perforated PVC embedded in rock. This volume is handled with a 0.50” drilled orifice in the riser pipe of the outlet structure. The outlet structure detail and water quality drawdown calculations are also shown in Appendix A.

Overland Detention and Structure – North Basin

To ensure the post developed stormwater flows are kept under the allowable release rate of the new dry pond per the City of Monroe’s regulations, a control structure was designed to regulate the release. The outlet structure consists of the following: The outlet structure is a modified 2-5 catch basin with a 0.5” diameter water quality orifice with an invert elevation of 670.00’. For stormwater quantity management, the follwing orifices and windows are provided: a 15” diameter orifice with an invert elevation of 671.14’. The grate elevation of the outlet structure is 672.89’. The 24” culvert out is designed to convey flows from the 100-year event if necessary. The detention basin also has an emergency spillway with a width of 10’. The bottom of the spillway is at elevation 673.75’ with the top at elevation 674.25’. See Appendix A for outlet structure details and spillways details/calulcations.

Results Summary

The detention volume was checked by using HydroCAD calculations included in Appendix C of this report. A list of regulated rates and storage elevations of the detention facility are shown below.

Table 5: Predeveloped Flow Rates for North Basin

Storm Frequency (YR)	Pre-Developed On-Site Release Rate (CFS)	Offsite Bypass (CFS)	Allowable On-Site Release Rate (CFS)
1	2.65	0.94	3.59
2	3.75	1.35	4.00
5	5.29	1.93	4.58
10	6.54	2.40	5.05
25	8.26	3.04	11.30
50	9.60	3.55	13.15
100	10.96	4.07	15.03

Table 4: Post Developed Flows and Detention for North Basin

Storm Frequency (YR)	Post-Developed Release Rate (CFS)	Detention Elevation (FT)
1	1.72	671.73
2	2.63	671.90
5	3.77	672.09
10	4.61	672.23
25	5.58	672.42
50	6.17	672.57
100	6.75	672.72

Based on the calculated findings, the total post-development release rates are below the allowable release rate.

Storm Sewer Calculations

Results Summary

The City of Monroe requires storm pipes be designed with a 10-year storm capacity and a 25-year HGL. See Appendix D for site storm sewer calculations and area map.

Appendix A

Water Quality Calculations & Outlet Structure Detail

PROJECT	**Monroe HS - North Pond**		
JOB #	**010862.029**	**DESIGN**	**BMB**
DATE	**2/24/2026**	**CHECK**	**MAG**

WATER QUALITY VOLUME = INPUT FIELDS

Method 2

WQv= C * P * A / 12

C = 0.298161765

P = 0.9 IN

A = 2.72 ACRES *

WQv = 0.06 AC FT

RUNOFF COEFFICIENT

C = Rv = 0.05 + 0.9i

WHERE: i = IMPERVIOUS RATIO

IMPERVIOUS RATIO, i = IMPERVIOUS AREA / TOTAL AREA

IMPERVIOUS AREA =	0.75
TOTAL AREA =	2.72
i =	0.275735

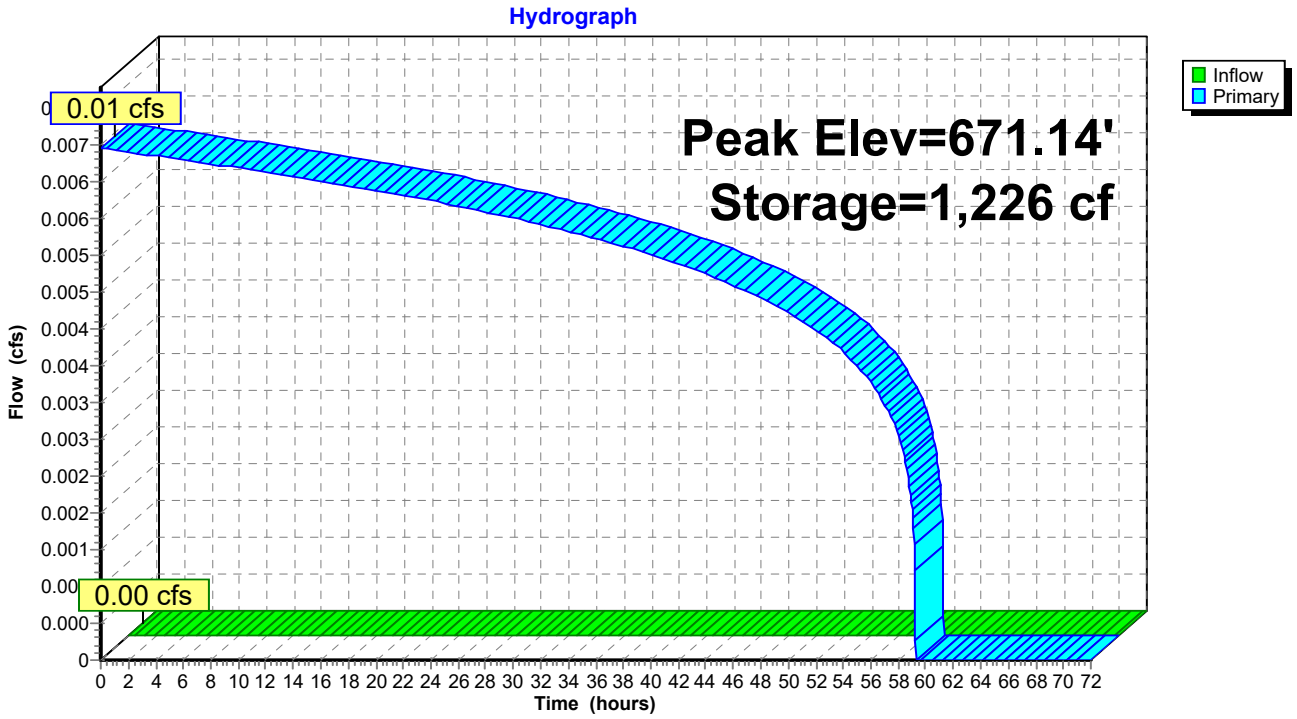
P = Precipitation Depth of 0.90- inches

***AREA TO INCLUDE OFFSITE DRAINAGE**

THEREFORE, WQv =		**0.06**	**AC FT**
	OR,	2649.537	CF

120% 3179.444

Pond 6P: Pond New Drive



Hydrograph for Pond 6P: Pond New Drive

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**1,226**	**671.14**	**0.01**
2.50	0.00	1,163	671.12	0.01
5.00	0.00	1,102	671.10	0.01
7.50	0.00	1,041	671.08	0.01
10.00	0.00	980	671.06	0.01
12.50	0.00	920	671.03	0.01
15.00	0.00	861	671.01	0.01
17.50	0.00	803	670.99	0.01
20.00	0.00	745	670.96	0.01
22.50	0.00	688	670.94	0.01
25.00	0.00	632	670.91	0.01
27.50	0.00	576	670.89	0.01
30.00	0.00	522	670.86	0.01
32.50	0.00	468	670.83	0.01
35.00	0.00	416	670.79	0.01
37.50	0.00	364	670.76	0.01
40.00	0.00	314	670.72	0.01
42.50	0.00	265	670.68	0.01
45.00	0.00	218	670.64	0.01
47.50	0.00	173	670.59	0.00
50.00	0.00	129	670.54	0.00
52.50	0.00	88	670.47	0.00
55.00	0.00	50	670.39	0.00
57.50	0.00	17	670.27	0.00
60.00	0.00	0	670.00	0.00
62.50	0.00	0	670.00	0.00
65.00	0.00	0	670.00	0.00
67.50	0.00	0	670.00	0.00
70.00	0.00	0	670.00	0.00

PROJECT	**Monroe HS - South Pond**		
JOB #	**010862.029**	**DESIGN**	**BMB**
DATE	**2/24/2026**	**CHECK**	**MAG**

WATER QUALITY VOLUME = INPUT FIELDS

Method 2

WQv= C * P * A / 12

C = 0.463359684
P = 0.9 IN
A = 37.95 ACRES *

WQv = 1.32 AC FT

RUNOFF COEFFICIENT
C = Rv = 0.05 + 0.9i
WHERE: i = IMPERVIOUS RATIO

IMPERVIOUS RATIO, i = IMPERVIOUS AREA / TOTAL AREA

IMPERVIOUS AREA =	17.43
TOTAL AREA =	37.95
i =	0.459289

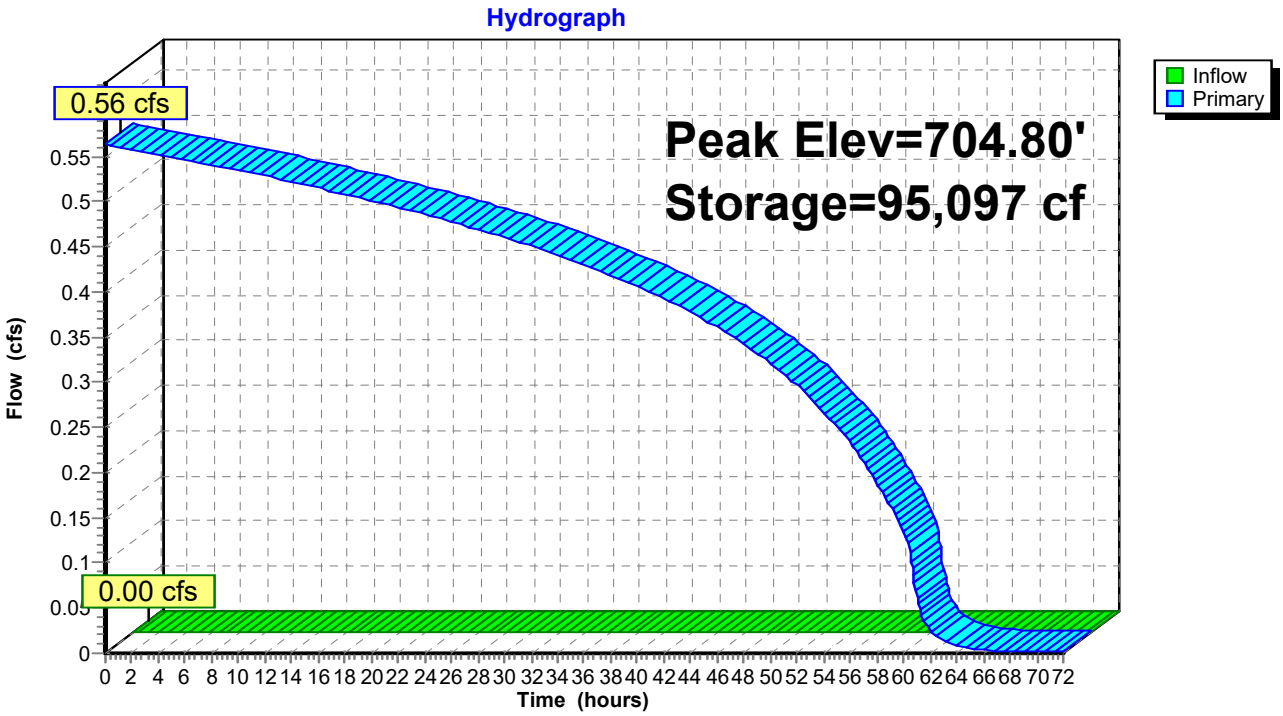
P = Precipitation Depth of 0.90- inches

***AREA TO INCLUDE OFFSITE DRAINAGE**

THEREFORE, WQv =		**1.32**	**AC FT**
	OR,	57448.56	CF

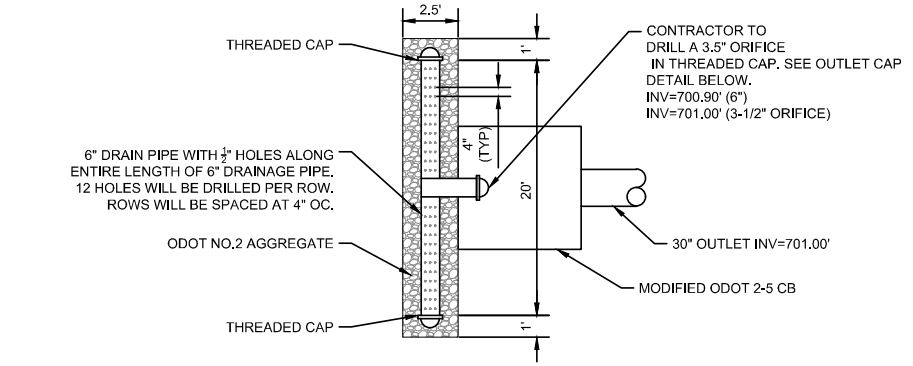
120% 68938.27

Pond 5P: Pond High School

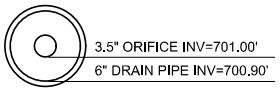


Hydrograph for Pond 5P: Pond High School

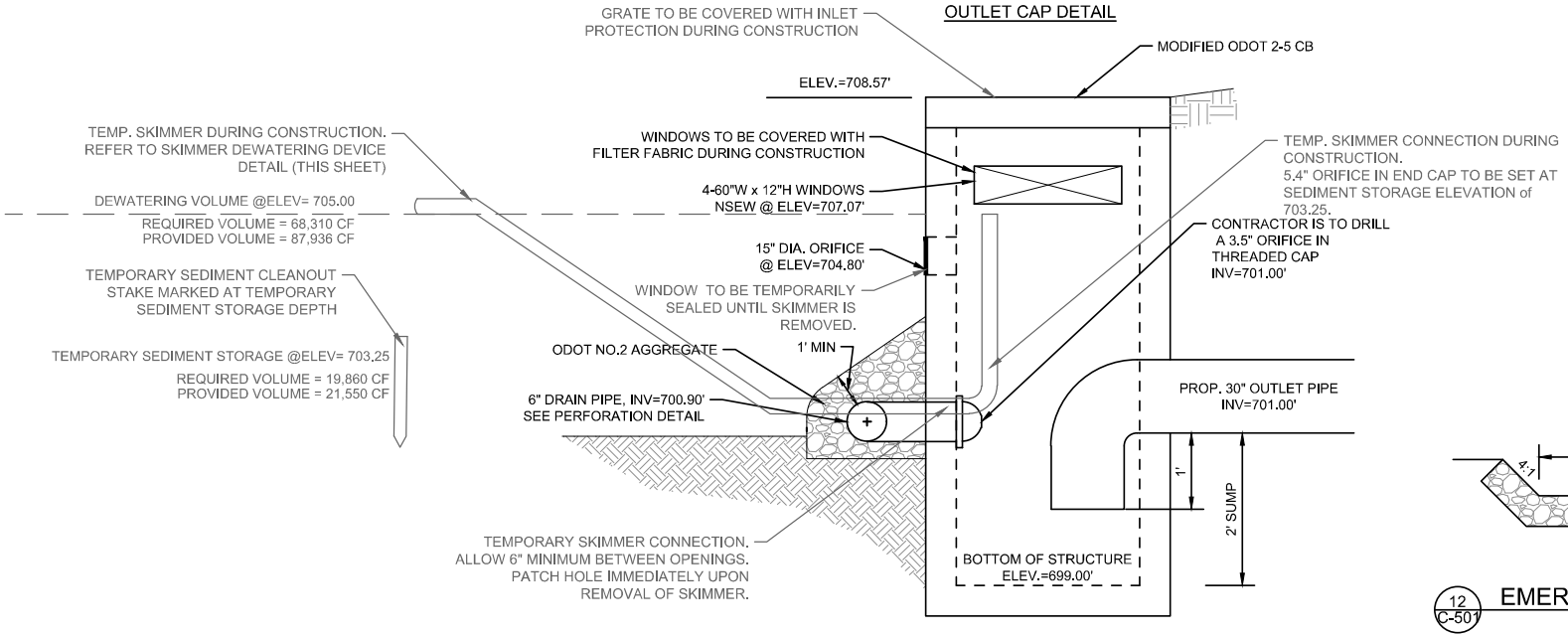
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Primary (cfs)
0.00	**0.00**	**95,097**	**704.80**	**0.56**
2.50	0.00	90,055	704.73	0.56
5.00	0.00	85,075	704.65	0.55
7.50	0.00	80,160	704.57	0.54
10.00	0.00	75,313	704.49	0.53
12.50	0.00	70,536	704.41	0.53
15.00	0.00	65,831	704.33	0.52
17.50	0.00	61,201	704.24	0.51
20.00	0.00	56,650	704.16	0.50
22.50	0.00	52,180	704.07	0.49
25.00	0.00	47,797	703.98	0.48
27.50	0.00	43,504	703.88	0.47
30.00	0.00	39,307	703.78	0.46
32.50	0.00	35,213	703.68	0.45
35.00	0.00	31,231	703.57	0.44
37.50	0.00	27,370	703.45	0.42
40.00	0.00	23,642	703.33	0.41
42.50	0.00	20,060	703.19	0.39
45.00	0.00	16,645	703.05	0.37
47.50	0.00	13,418	702.89	0.35
50.00	0.00	10,409	702.72	0.32
52.50	0.00	7,657	702.54	0.29
55.00	0.00	5,215	702.34	0.25
57.50	0.00	3,166	702.12	0.20
60.00	0.00	1,642	701.90	0.13
62.50	0.00	1,080	701.78	0.02
65.00	0.00	990	701.76	0.01
67.50	0.00	956	701.75	0.00
70.00	0.00	938	701.75	0.00



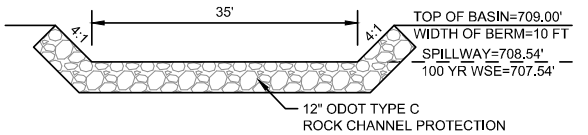
PERFORATION DETAIL



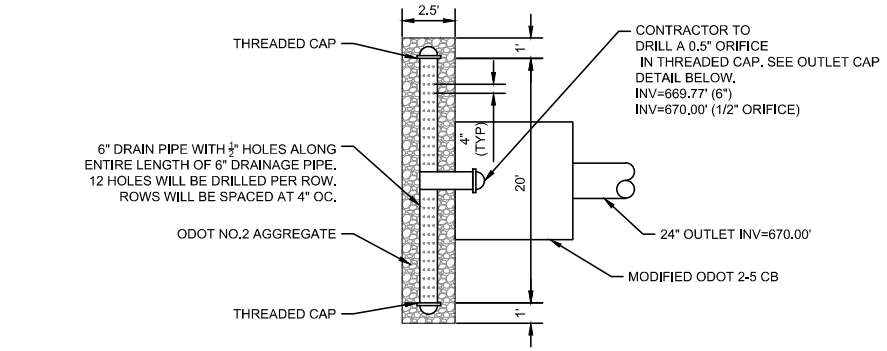
OUTLET CAP DETAIL



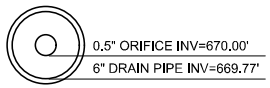
11 C-501 DETENTION OUTFALL STRUCTURE - SOUTH BASIN
N.T.S.



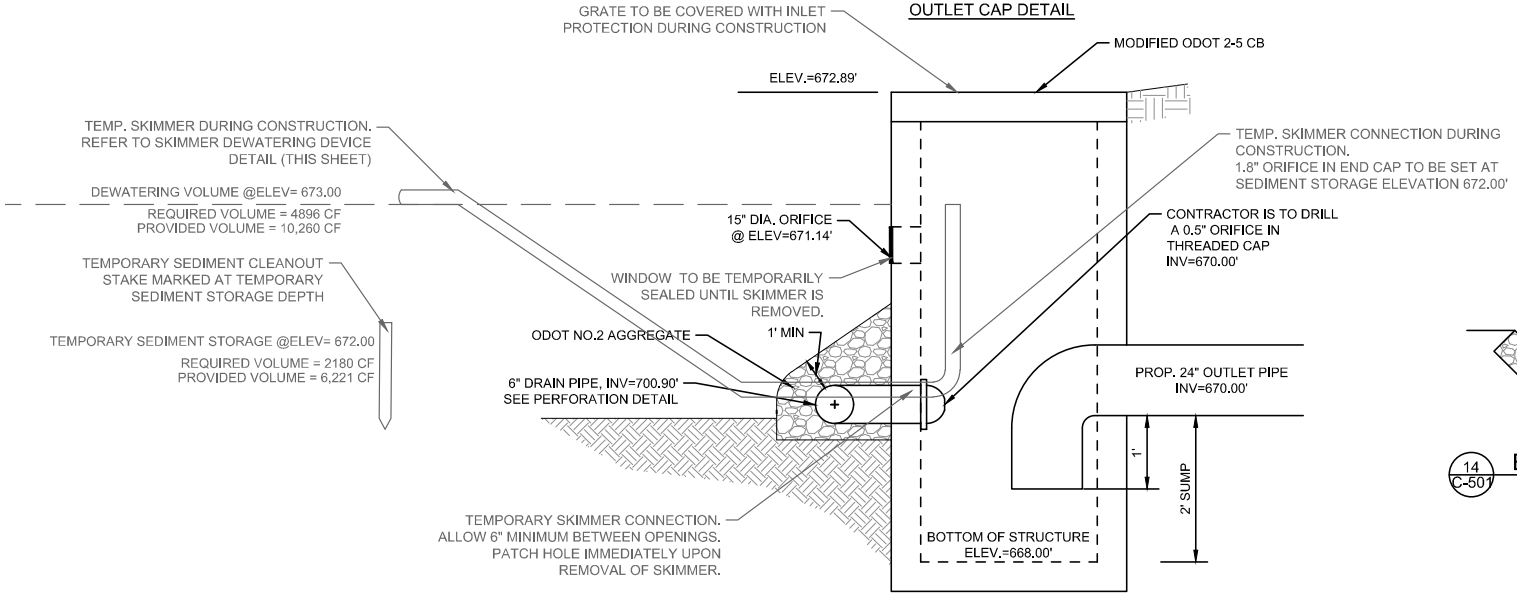
12 C-501 EMERGENCY SPILLWAY DETAIL
N.T.S.



PERFORATION DETAIL

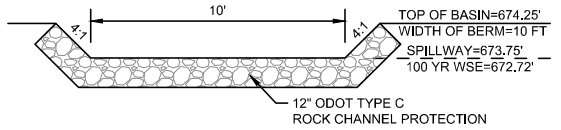


OUTLET CAP DETAIL



13 C-501 DETENTION OUTFALL STRUCTURE - NORTH BASIN

N.T.S.



14 C-501 EMERGENCY SPILLWAY DETAIL

N.T.S.

Emergency Spillway Calculation - South Basin

Weirs

CIVIL TOOLS PRO
English Units
03-02-2026 14:13:33

Results

Flow (cfs)	Length (ft)	Weir Coefficient	Head (ft)
33.85	35.00	3.100	0.46

2026-02-26 Spillway Weir Calc - North Pond

Weirs

CIVIL TOOLS PRO
English Units
02-26-2026 16:24:04

Results

Flow (cfs)	Length (ft)	Weir Coefficient	Head (ft)
10.96	10.00	3.100	0.50

Appendix B

Drainage Maps

- Pre-Developed Map

- Post-Developed Map

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE | 6219 Centre Park Dr. West Chester, OH 45069 513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

BENCHMARK
IRON PIN
N:533,995.96
E:1,637,165.81
ELEV:762.89

LOT 6255
MONROE LOCAL SCHOOL DISTRICT BOARD OF EDUCATION
O.R. 9692 PG. 779
186.570 ACRES

LOT 6255
MONROE LOCAL SCHOOL DISTRICT BOARD OF EDUCATION
O.R. 9692 PG. 779
186.570 ACRES

LEASE AREA
10.477 ACRES

LEASE AREA
10.477 ACRES

BUTLER TECH
MONROE CAMPUS
NATURAL SCIENCE CENTER

PRE-DEVELOPED
TOTAL AREA = 29.89 AC.
ROW CROP = 17.18 AC (CN=78)
FARMSTEAD = 2.88 AC (CN=74)
MEADOW = 9.83 (CN=58)
WEIGHTED CN = 71
TIME OF CONCENTRATION = 42.75 MIN.

EX. 1 STORY BRICK BLDG.
EX. 2 STORY BRICK BLDG.
EX. POND
WATER ELEV.= 744.7 +/-
EX. SHED
EX. SHIPPING CONTAINER
ASSUMED LOCATION OF UNDERGROUND ELECTRIC
ASSUMED LOCATION OF UNDERGROUND ELECTRIC AND TELEPHONE
EX. HORNET DRIVE
STATE ROUTE 63 (R/W VARIES)
FUTURE ADDITION
ALTERNATE BUILDING

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

PRE-DEVELOPED DRAINAGE MAP - HIGH SCHOOL

1 OF 2

I:\Engineering\2021\222101\02\Civil\Sheets\01SHEETS\NEW\2 sheet_3/2/2026 2:08:29 PM, bbouchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

POST-DEVELOPED DRAINAGE MAP - HIGH SCHOOL

2 OF 2

OFFSITE BY-PASS
TOTAL AREA = 0.73 AC
OPEN SPACE = 0.73 AC (CN=74)
WEIGHTED CN = 74
TIME OF CONCENTRATION = 10 MIN.

POST-DEVELOPED CAPTURED
TOTAL AREA = 37.22 AC
IMPERVIOUS AREA = 17.43 AC (CN=98)
OPEN SPACE = 19.79 AC (CN=80)
WEIGHTED CN = 88
TIME OF CONCENTRATION = 30.7 MIN.

POST-DEVELOPED UNCAPTURED
TOTAL AREA = 0.37 AC
IMPERVIOUS AREA = 0.09 AC (CN=98)
OPEN SPACE = 0.28 AC (CN=80)
WEIGHTED CN = 84
TIME OF CONCENTRATION = 10 MIN.

BUTLER TECH
MONROE CAMPUS
NATURAL SCIENCE CENTER

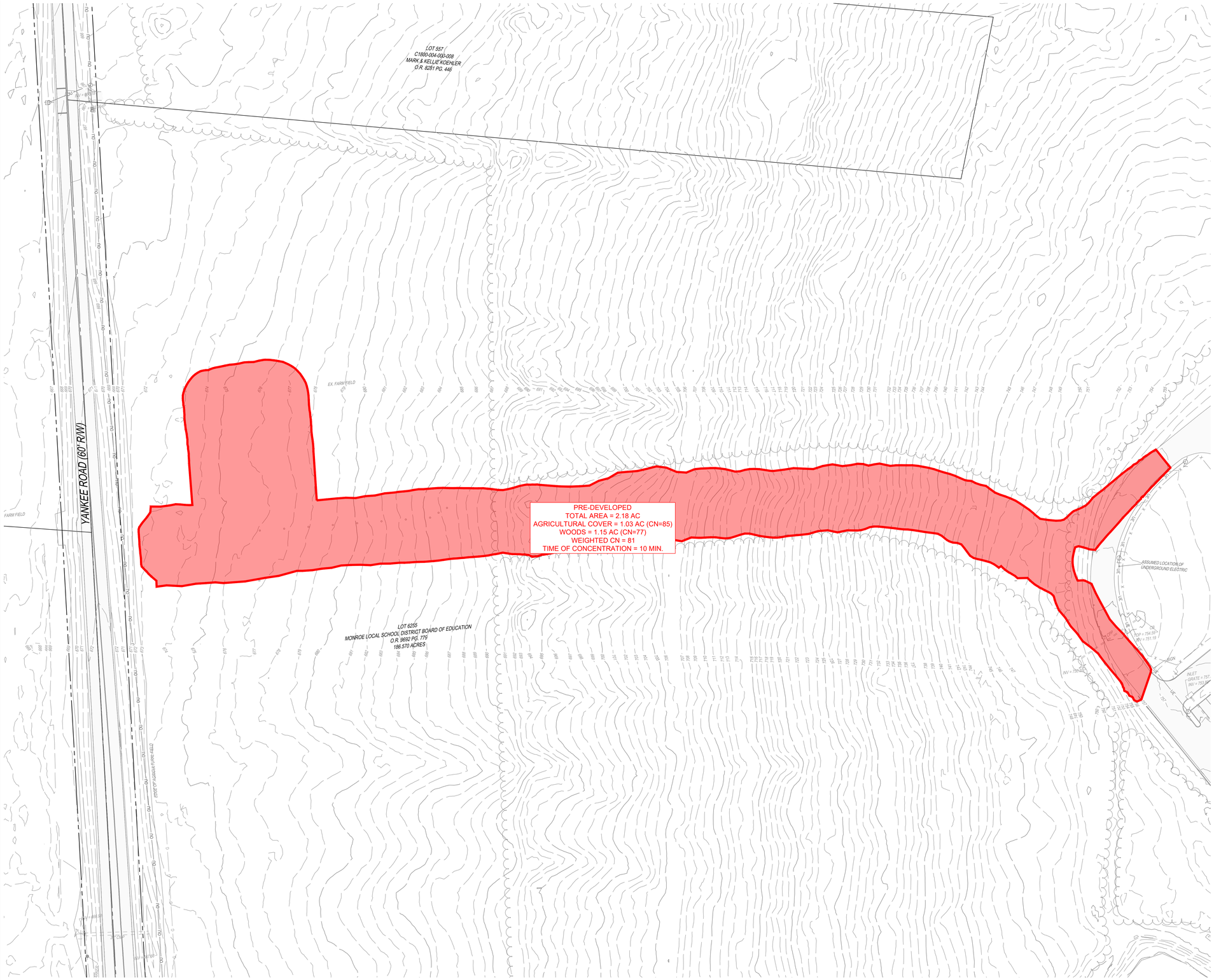
STATE ROUTE 63 (R/W VARIES)

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

H:\Engineering\2021_2021\P101886\2025_CIVIL_Sheets\101886CDMAP2.dwg, 2/27/2026 1:37:35 PM, bbouchar

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.



0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

PRE-DEVELOPED DRAINAGE MAP - ENTRY DRIVE

1 OF 2

H:\Engineering\2021\ 2021\P\101082\2025_DWG_Sheets\101082C3DMAP2.dwg, 2/27/2026 1:27:45 PM, bbuchur

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

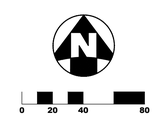
CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE | 6219 Centre Park Dr. West Chester, OH 45069 513.779.7851

EARLY SITE PACKAGE





NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

POST-DEVELOPED DRAINAGE MAP - ENTRY DRIVE

2 OF 2

H:\Engineering\2021\222101\Drawings\CDs\CD_Sheets\01\08\222101_DWG_Sheet01\08\222101_DWG_Sheet01\08\222101_DWG_Sheet

Appendix C

HydroCAD Calculations

88 Subcat 4S: Pre New Drive
89 Pond 5P: Pond High School
93 Subcat 5S: Pre High School
95 Pond 6P: Pond New Drive
99 Subcat 6S: Offsite Bypass High School
100 Pond 7P: Pond High School
104 Subcat 7S: Offsite Bypass New Drive
105 Subcat 8S: Uncaptured High School
106 Subcat 9S: Uncaptured New Drive
107 Subcat 10S: Pre High School
108 Pond 11P: Pond New Drive
112 Pond 12P: Pond High School
116 Pond 13P: Pond High School

10-Year Event
120 Subcat 1S: Post High School
122 Subcat 2S: Post High School (North Route)
124 Link 3L: (new Link)
125 Subcat 3S: Post New Drive
126 Link 4L: (new Link)
127 Subcat 4S: Pre New Drive
128 Pond 5P: Pond High School
132 Subcat 5S: Pre High School
134 Pond 6P: Pond New Drive
138 Subcat 6S: Offsite Bypass High School
139 Pond 7P: Pond High School
143 Subcat 7S: Offsite Bypass New Drive
144 Subcat 8S: Uncaptured High School
145 Subcat 9S: Uncaptured New Drive
146 Subcat 10S: Pre High School
147 Pond 11P: Pond New Drive
151 Pond 12P: Pond High School
155 Pond 13P: Pond High School

25-Year Event
159 Subcat 1S: Post High School
161 Subcat 2S: Post High School (North Route)
163 Link 3L: (new Link)
164 Subcat 3S: Post New Drive
165 Link 4L: (new Link)
166 Subcat 4S: Pre New Drive
167 Pond 5P: Pond High School
171 Subcat 5S: Pre High School
173 Pond 6P: Pond New Drive
177 Subcat 6S: Offsite Bypass High School
178 Pond 7P: Pond High School
182 Subcat 7S: Offsite Bypass New Drive
183 Subcat 8S: Uncaptured High School
184 Subcat 9S: Uncaptured New Drive
185 Subcat 10S: Pre High School
186 Pond 11P: Pond New Drive
190 Pond 12P: Pond High School

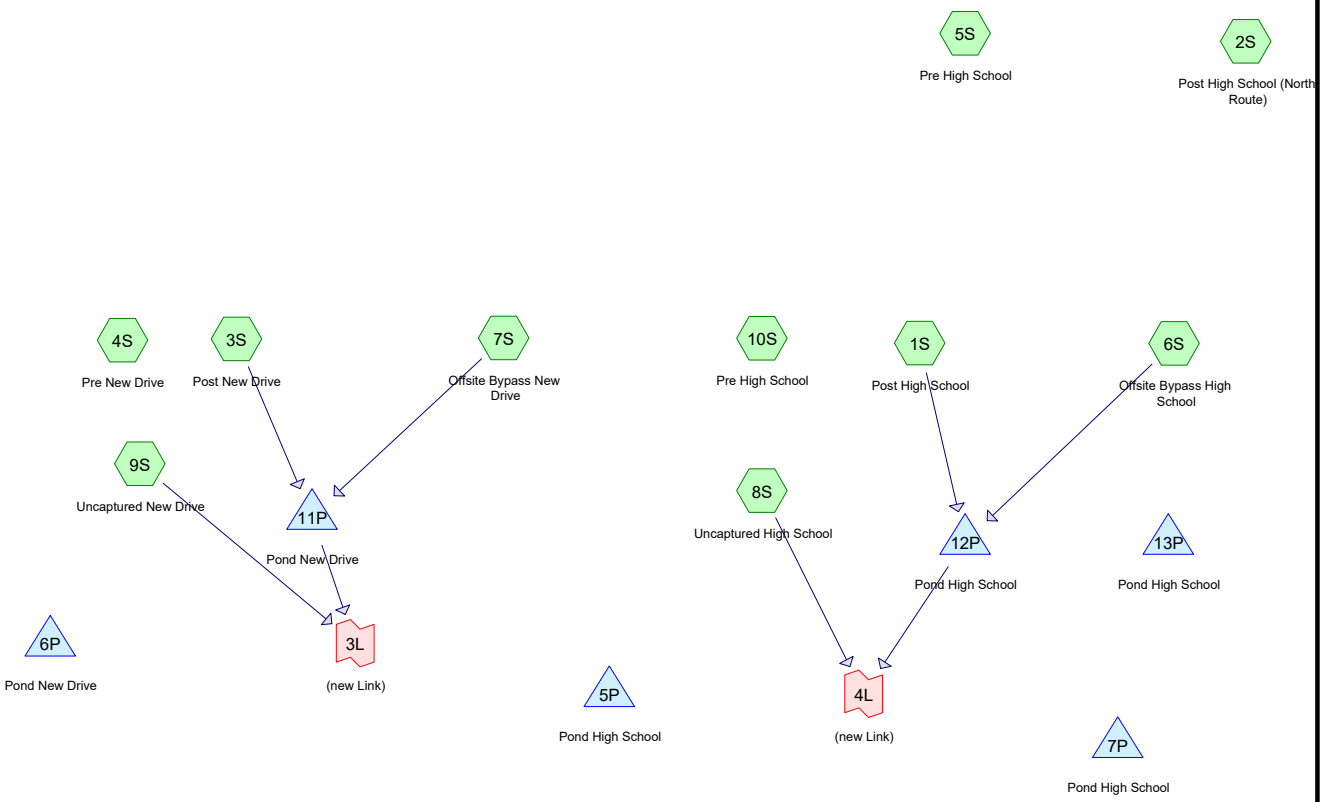
194 Pond 13P: Pond High School

50-Year Event
198 Subcat 1S: Post High School
200 Subcat 2S: Post High School (North Route)
202 Link 3L: (new Link)
203 Subcat 3S: Post New Drive
204 Link 4L: (new Link)
205 Subcat 4S: Pre New Drive
206 Pond 5P: Pond High School
210 Subcat 5S: Pre High School
212 Pond 6P: Pond New Drive
216 Subcat 6S: Offsite Bypass High School
217 Pond 7P: Pond High School
221 Subcat 7S: Offsite Bypass New Drive
222 Subcat 8S: Uncaptured High School
223 Subcat 9S: Uncaptured New Drive
224 Subcat 10S: Pre High School
225 Pond 11P: Pond New Drive
229 Pond 12P: Pond High School
233 Pond 13P: Pond High School

100-Year Event
237 Subcat 1S: Post High School
239 Subcat 2S: Post High School (North Route)
241 Link 3L: (new Link)
242 Subcat 3S: Post New Drive
243 Link 4L: (new Link)
244 Subcat 4S: Pre New Drive
245 Pond 5P: Pond High School
249 Subcat 5S: Pre High School
251 Pond 6P: Pond New Drive
255 Subcat 6S: Offsite Bypass High School
256 Pond 7P: Pond High School
260 Subcat 7S: Offsite Bypass New Drive
261 Subcat 8S: Uncaptured High School
262 Subcat 9S: Uncaptured New Drive
263 Subcat 10S: Pre High School
264 Pond 11P: Pond New Drive
268 Pond 12P: Pond High School
272 Pond 13P: Pond High School

Multi-Event Tables
276 Subcat 1S: Post High School
277 Subcat 2S: Post High School (North Route)
278 Link 3L: (new Link)
279 Subcat 3S: Post New Drive
280 Link 4L: (new Link)
281 Subcat 4S: Pre New Drive
282 Pond 5P: Pond High School
283 Subcat 5S: Pre High School
284 Pond 6P: Pond New Drive

285 Subcat 6S: Offsite Bypass High School
286 Pond 7P: Pond High School
287 Subcat 7S: Offsite Bypass New Drive
288 Subcat 8S: Uncaptured High School
289 Subcat 9S: Uncaptured New Drive
290 Subcat 10S: Pre High School
291 Pond 11P: Pond New Drive
292 Pond 12P: Pond High School
293 Pond 13P: Pond High School



Subcat Reach Pond Link

Routing Diagram for 010862DET029
Prepared by The Kleingers Group Inc, Printed 3/2/2026
HydroCAD® 10.20-7a s/n 12654 © 2025 HydroCAD Software Solutions LLC

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	NOAA 24-hr	A	Default	24.00	1	2.37	2
2	2-Year	NOAA 24-hr	A	Default	24.00	1	2.84	2
3	5-Year	NOAA 24-hr	A	Default	24.00	1	3.46	2
4	10-Year	NOAA 24-hr	A	Default	24.00	1	3.94	2
5	25-Year	NOAA 24-hr	A	Default	24.00	1	4.59	2
6	50-Year	NOAA 24-hr	A	Default	24.00	1	5.09	2
7	100-Year	NOAA 24-hr	A	Default	24.00	1	5.59	2

Summary for Subcatchment 1S: Post High School

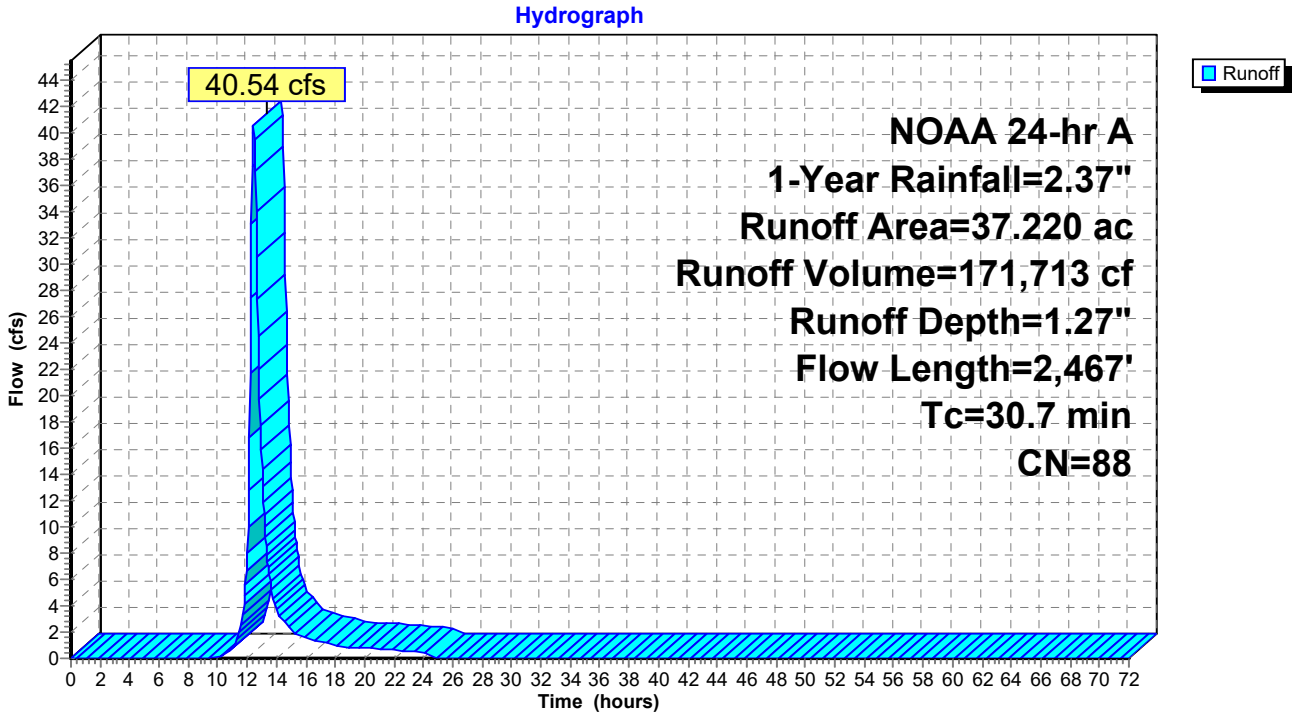
Runoff = 40.54 cfs @ 12.44 hrs, Volume= 171,713 cf, Depth= 1.27"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



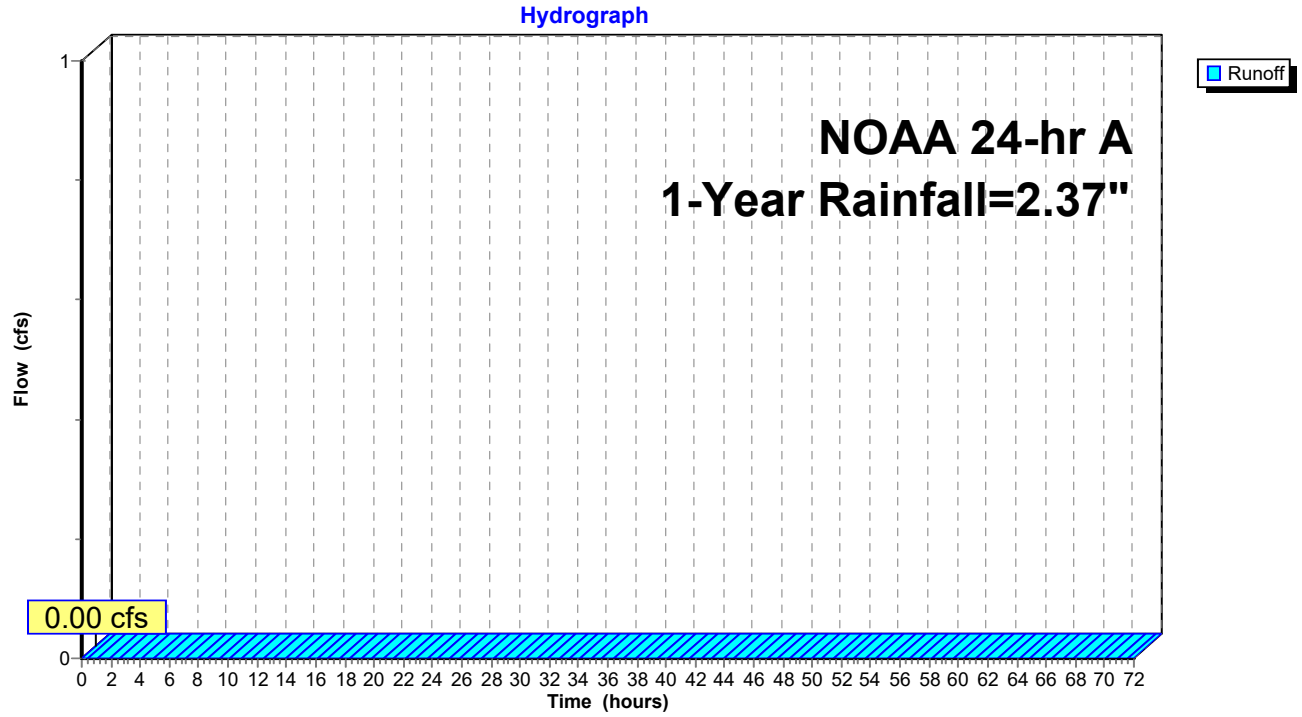
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

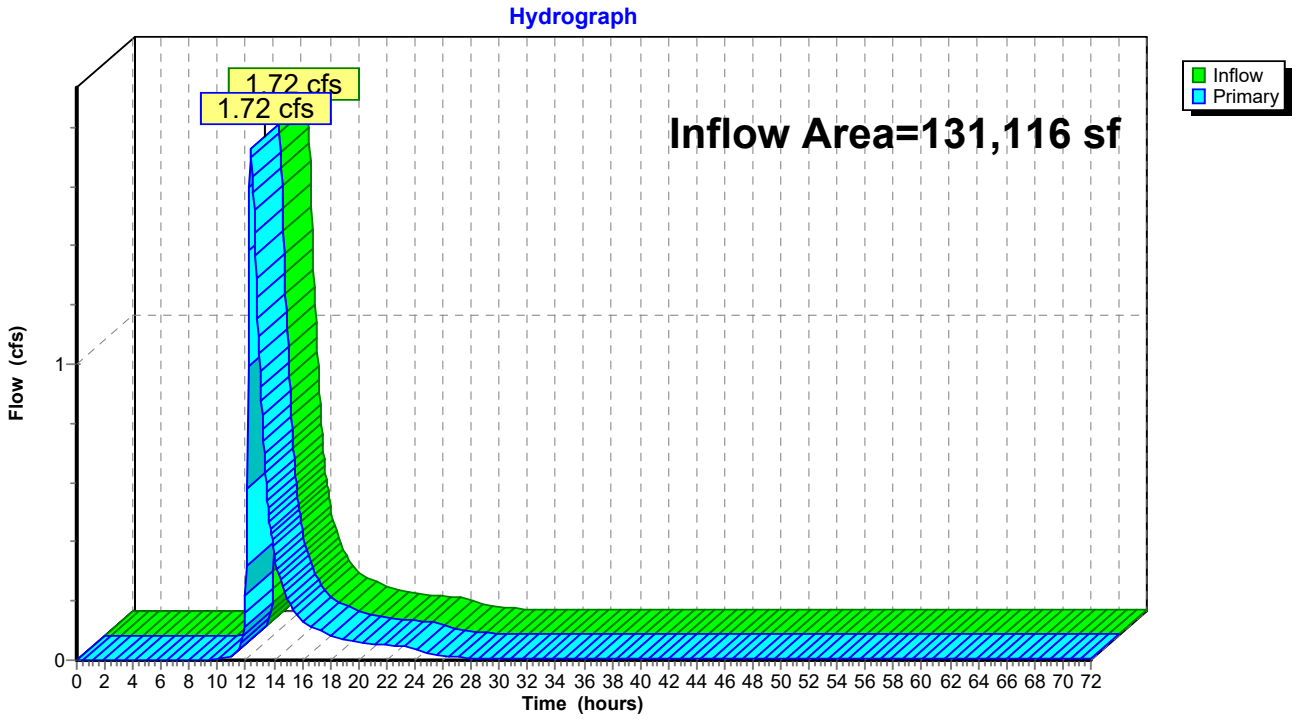


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.08" for 1-Year event
Inflow = 1.72 cfs @ 12.36 hrs, Volume= 11,810 cf
Primary = 1.72 cfs @ 12.36 hrs, Volume= 11,810 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

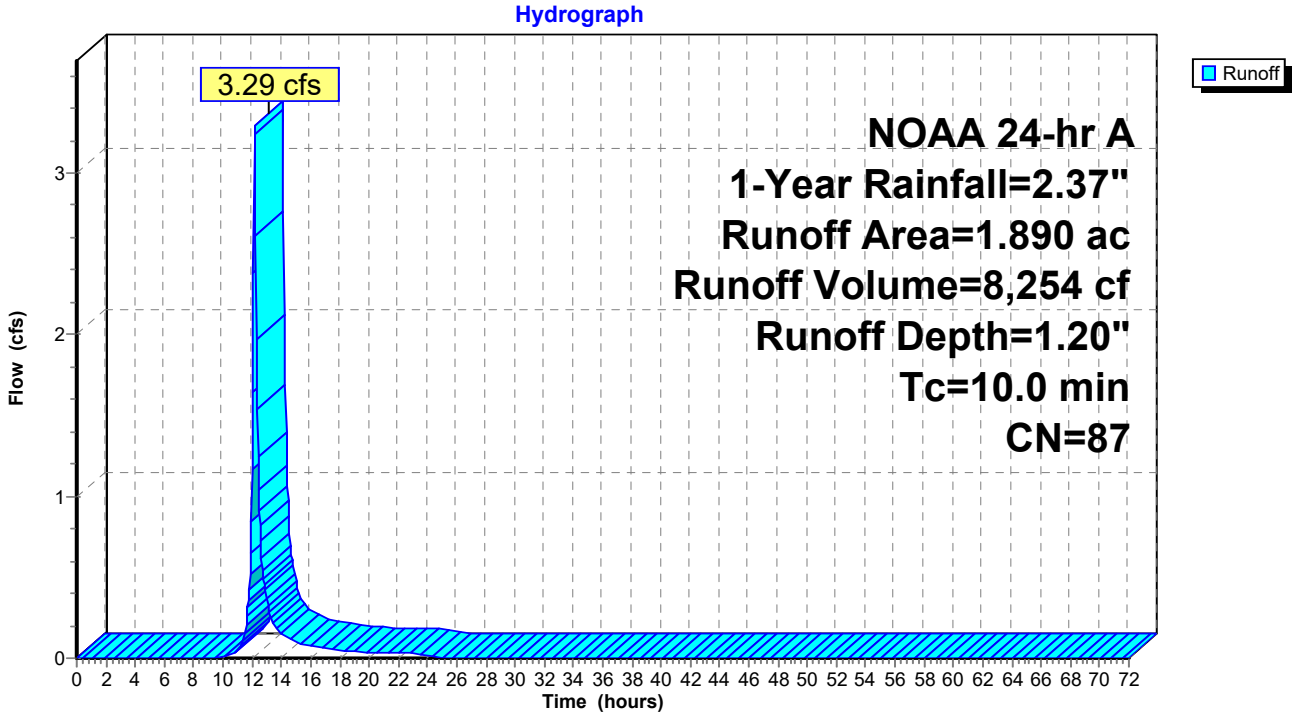
Runoff = 3.29 cfs @ 12.18 hrs, Volume= 8,254 cf, Depth= 1.20"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

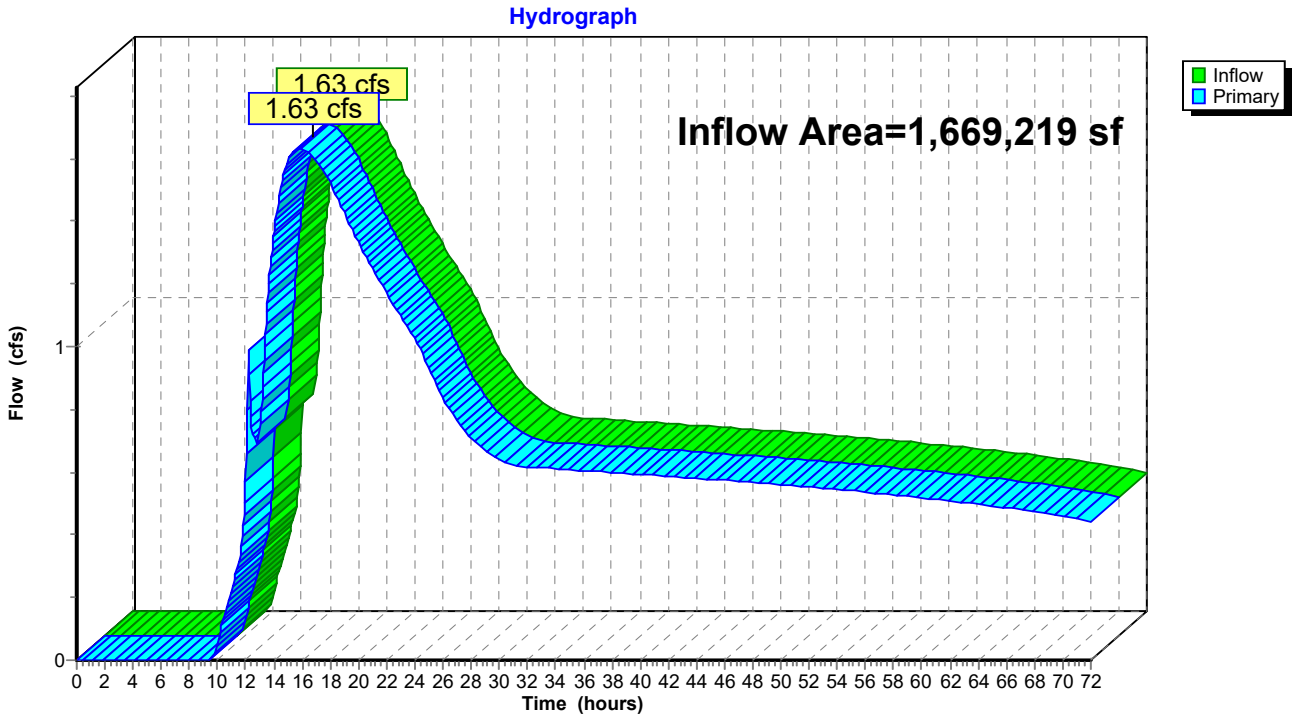


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 1.14" for 1-Year event
Inflow = 1.63 cfs @ 15.78 hrs, Volume= 158,079 cf
Primary = 1.63 cfs @ 15.78 hrs, Volume= 158,079 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

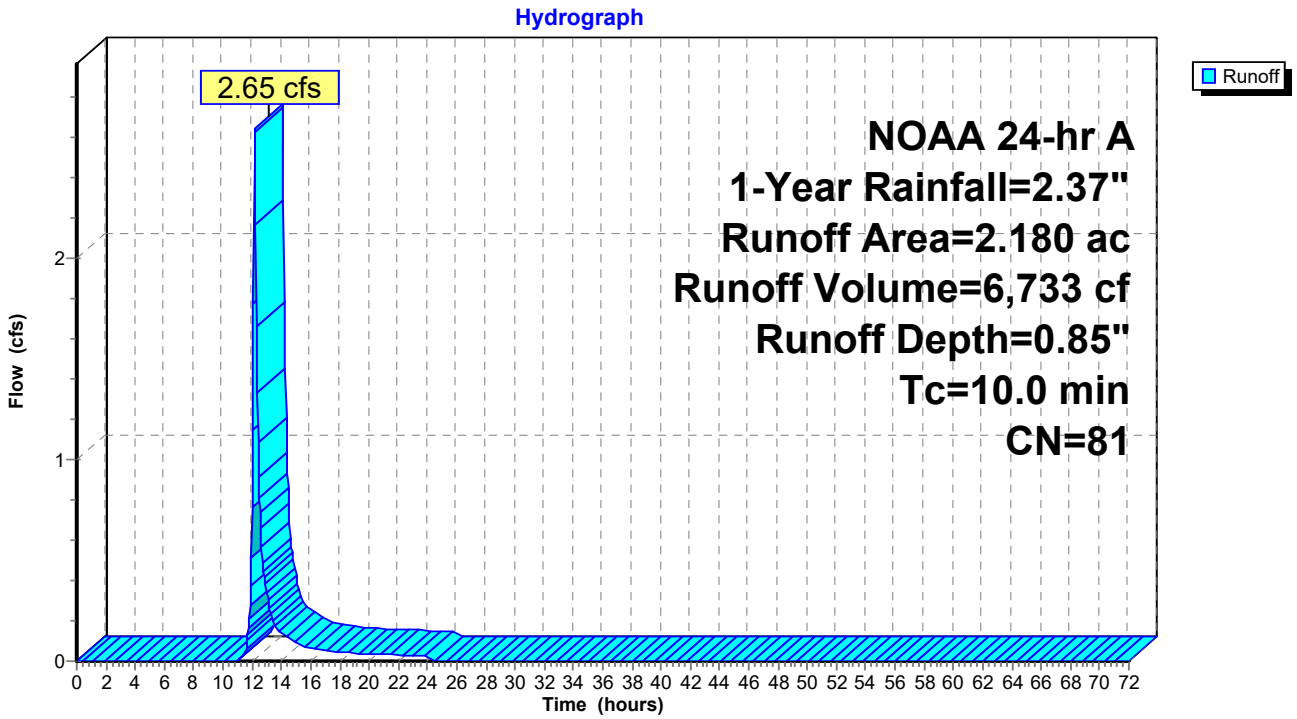
Runoff = 2.65 cfs @ 12.19 hrs, Volume= 6,733 cf, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

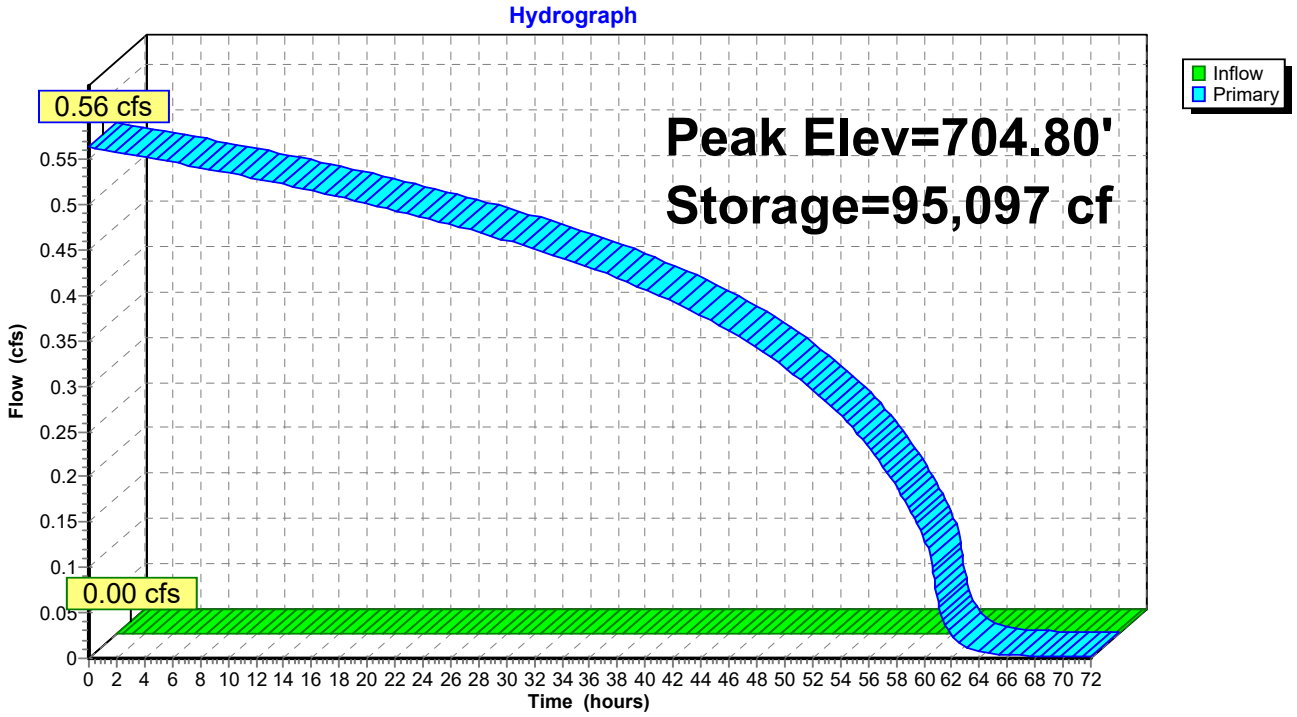
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

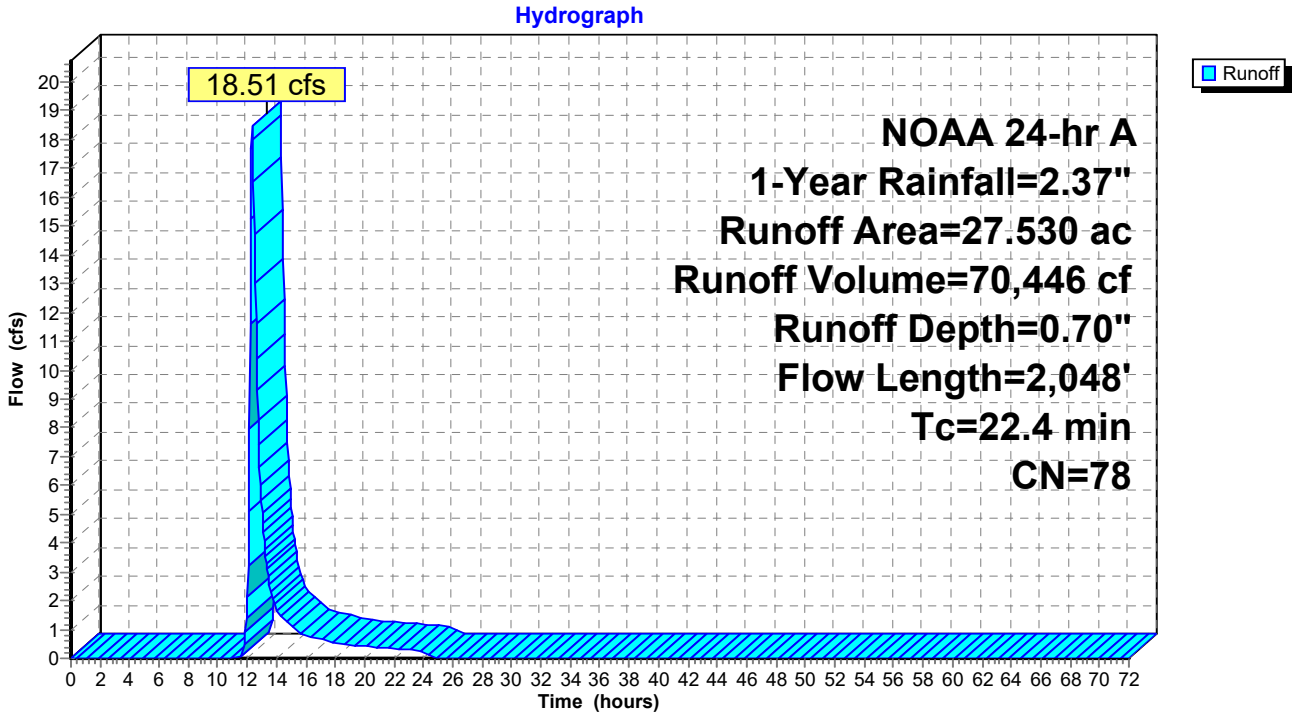
Runoff = 18.51 cfs @ 12.36 hrs, Volume= 70,446 cf, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

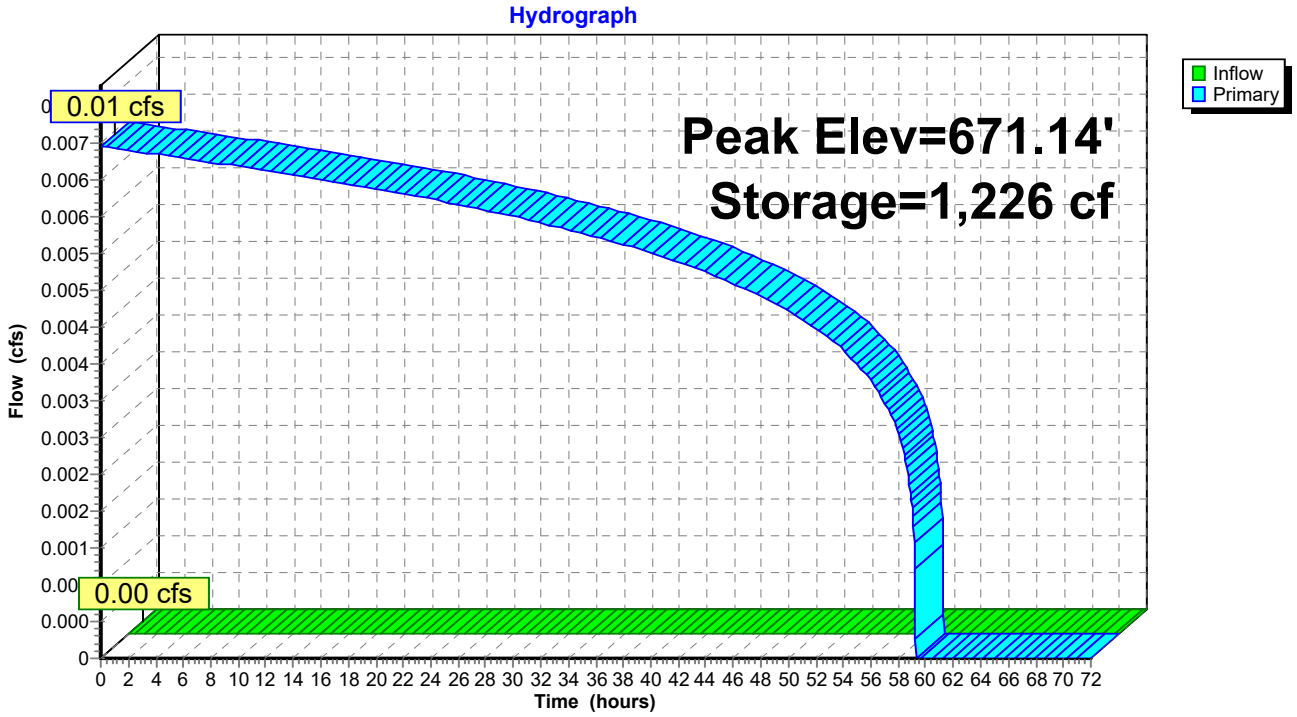
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

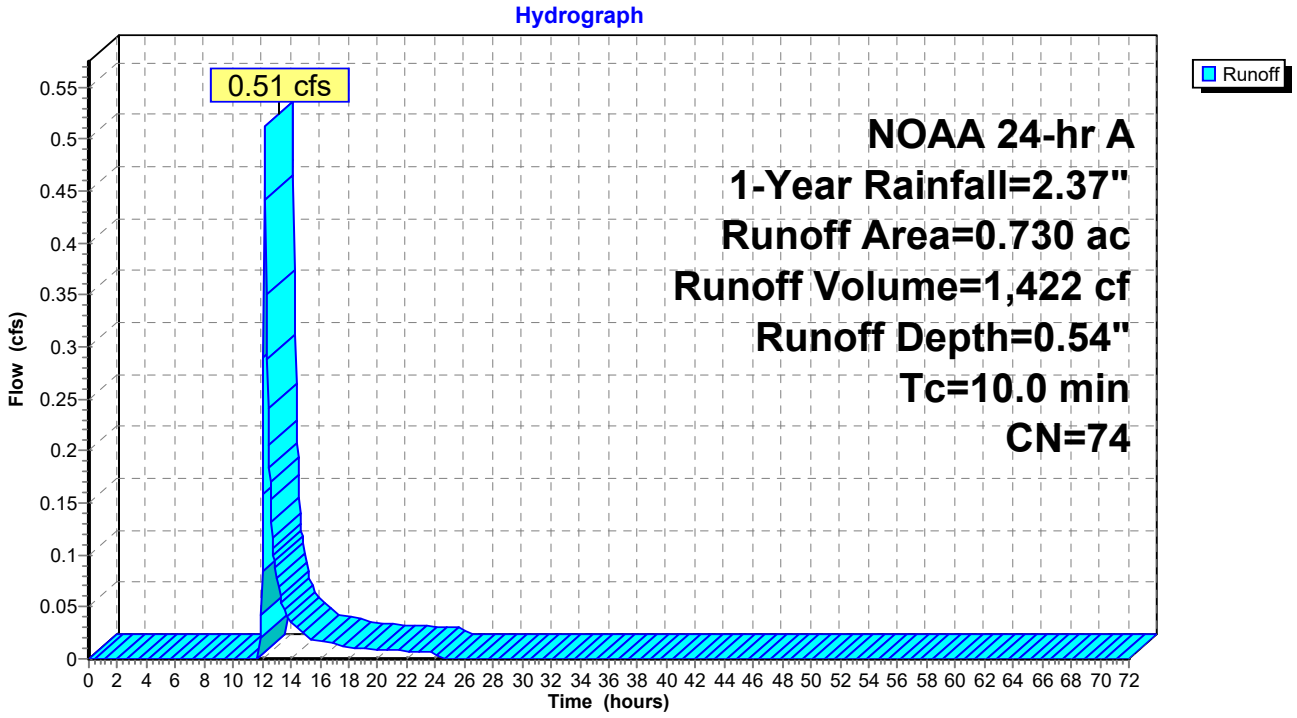
Runoff = 0.51 cfs @ 12.20 hrs, Volume= 1,422 cf, Depth= 0.54"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

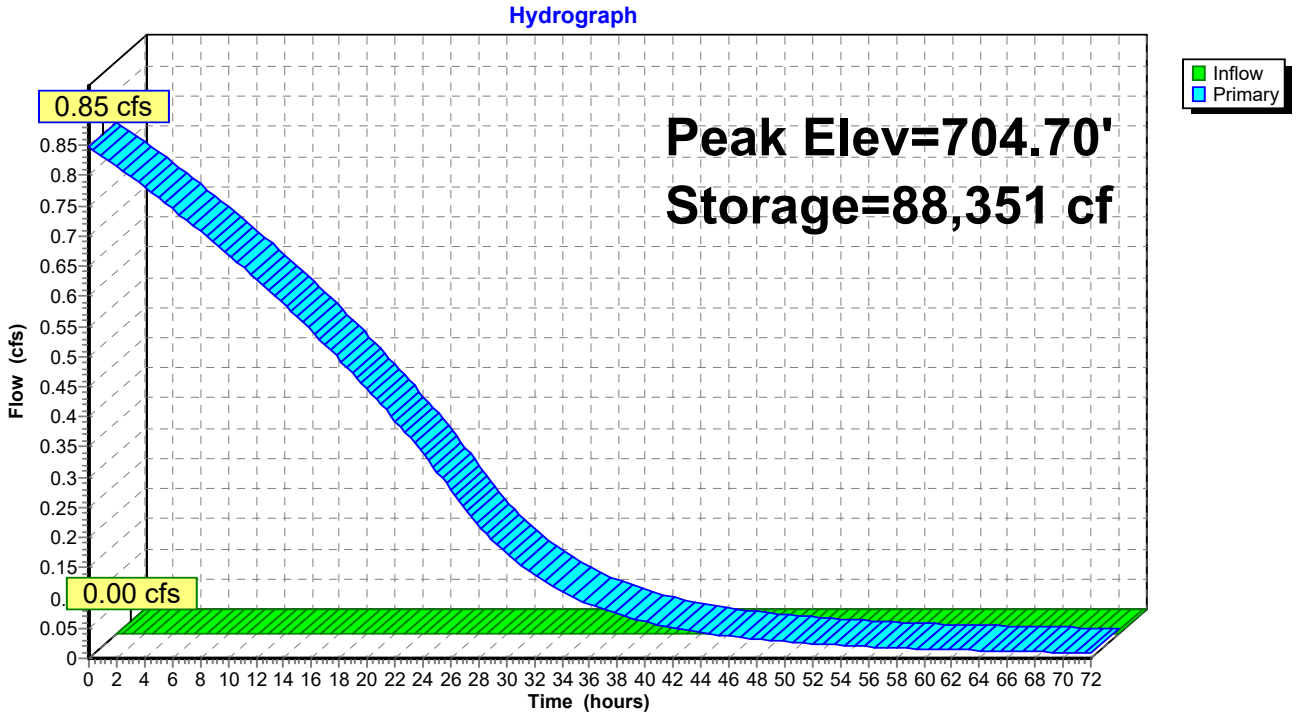
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

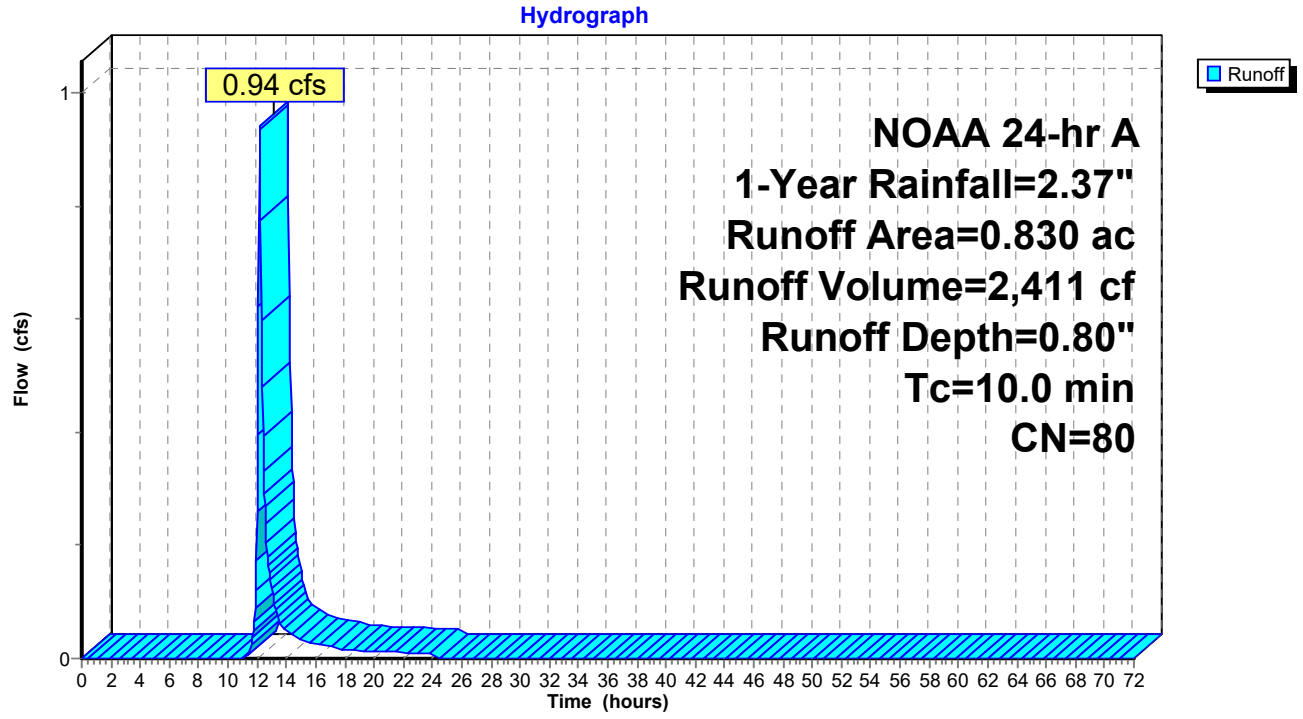
Runoff = 0.94 cfs @ 12.19 hrs, Volume= 2,411 cf, Depth= 0.80"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

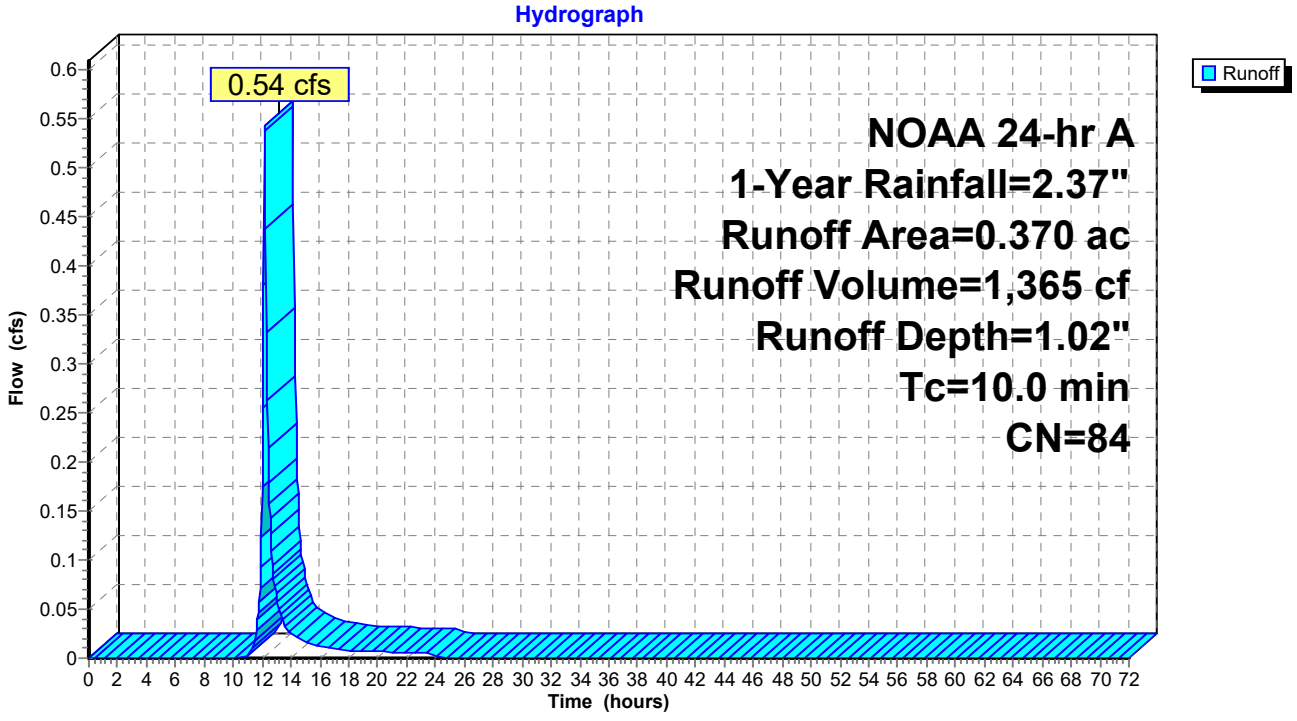
Runoff = 0.54 cfs @ 12.18 hrs, Volume= 1,365 cf, Depth= 1.02"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

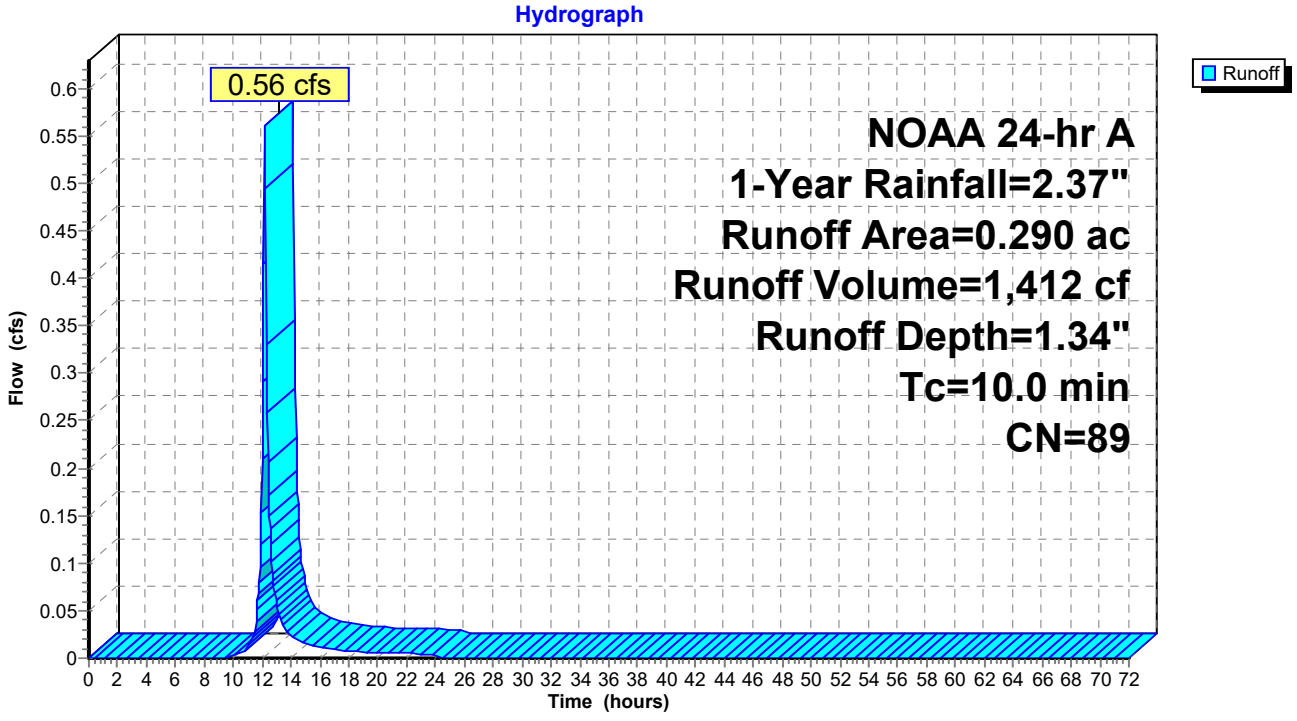
Runoff = 0.56 cfs @ 12.18 hrs, Volume= 1,412 cf, Depth= 1.34"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

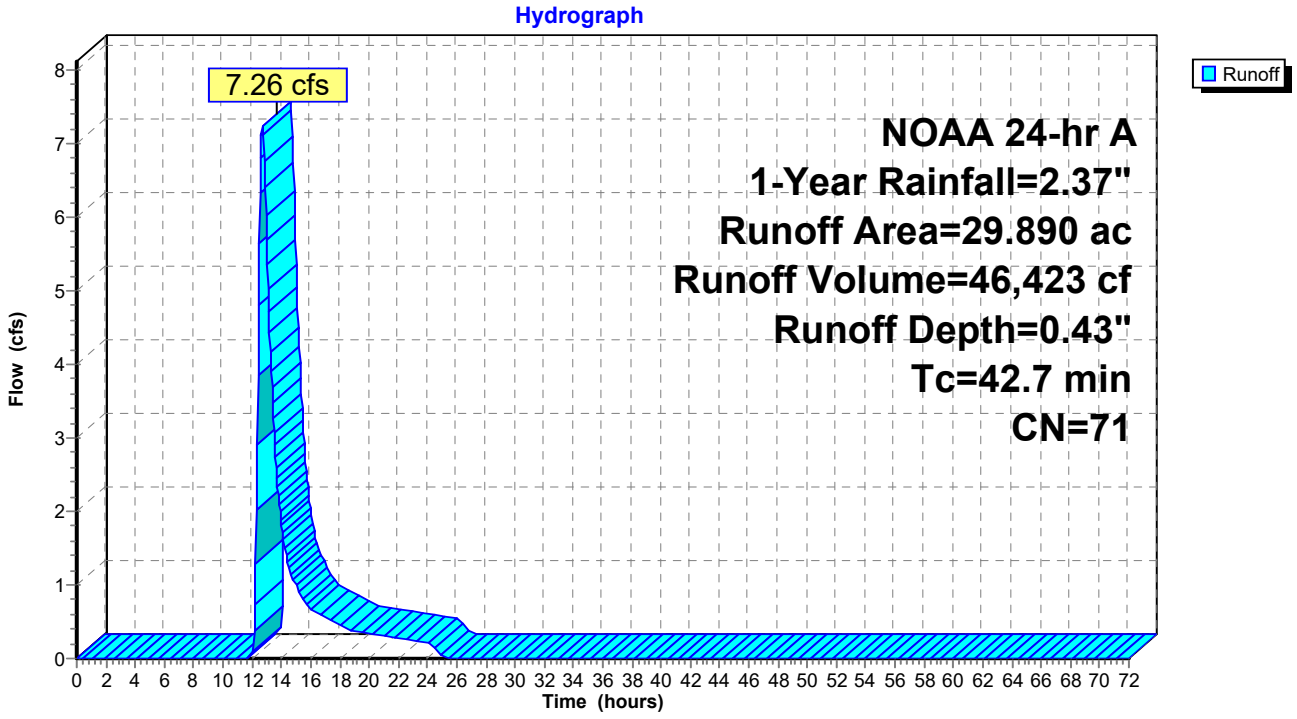
Runoff = 7.26 cfs @ 12.71 hrs, Volume= 46,423 cf, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 1-Year Rainfall=2.37"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.08" for 1-Year event
Inflow = 4.23 cfs @ 12.18 hrs, Volume= 10,665 cf
Outflow = 1.51 cfs @ 12.42 hrs, Volume= 10,397 cf, Atten= 64%, Lag= 14.6 min
Primary = 1.51 cfs @ 12.42 hrs, Volume= 10,397 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 671.73' @ 12.42 hrs Surf.Area= 6,832 sf Storage= 4,115 cf

Plug-Flow detention time= 277.8 min calculated for 10,397 cf (97% of inflow)
Center-of-Mass det. time= 263.2 min (1,081.6 - 818.4)

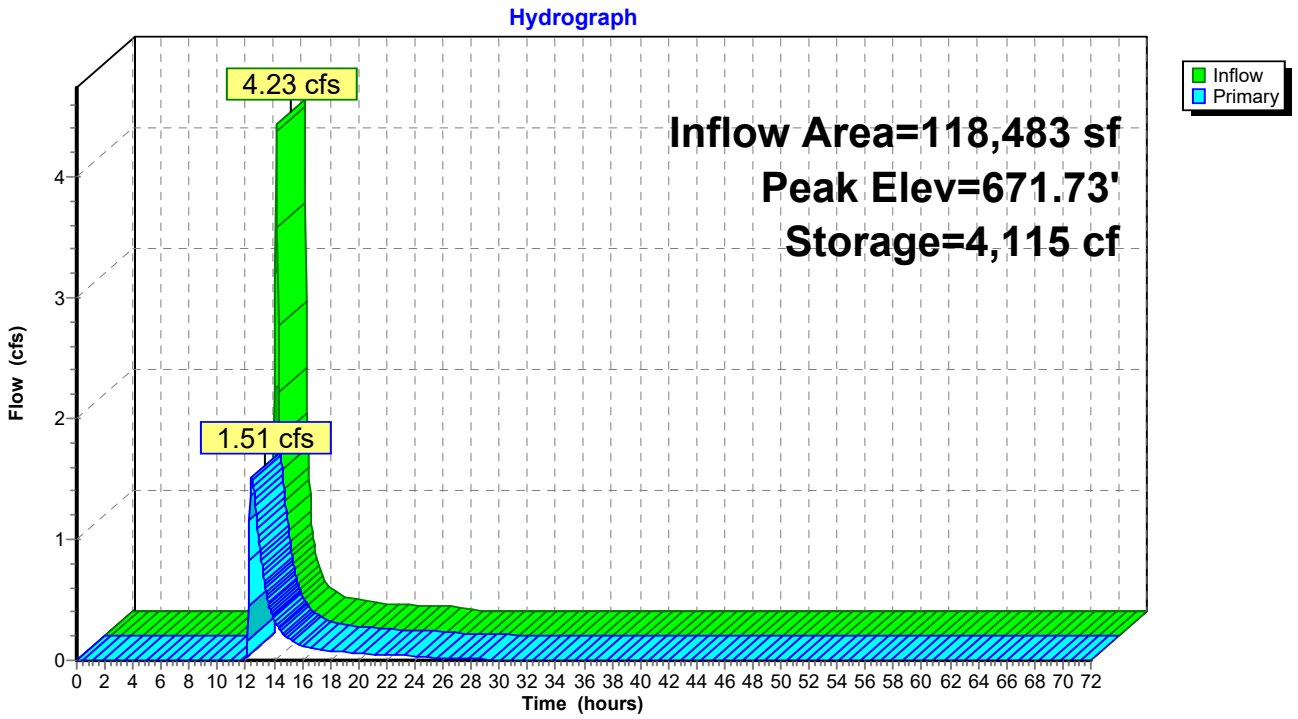
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.50 cfs @ 12.42 hrs HW=671.73' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 1.50 cfs of 12.95 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.30 fps)
  └─**3=Orifice/Grate** (Orifice Controls 1.50 cfs @ 2.62 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 1.26" for 1-Year event
Inflow = 40.75 cfs @ 12.44 hrs, Volume= 173,135 cf
Outflow = 1.61 cfs @ 15.81 hrs, Volume= 156,715 cf, Atten= 96%, Lag= 202.3 min
Primary = 1.61 cfs @ 15.81 hrs, Volume= 156,715 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 705.25' @ 15.81 hrs Surf.Area= 80,403 sf Storage= 129,225 cf

Plug-Flow detention time= 1,360.8 min calculated for 156,606 cf (90% of inflow)
Center-of-Mass det. time= 1,318.0 min (2,148.0 - 830.1)

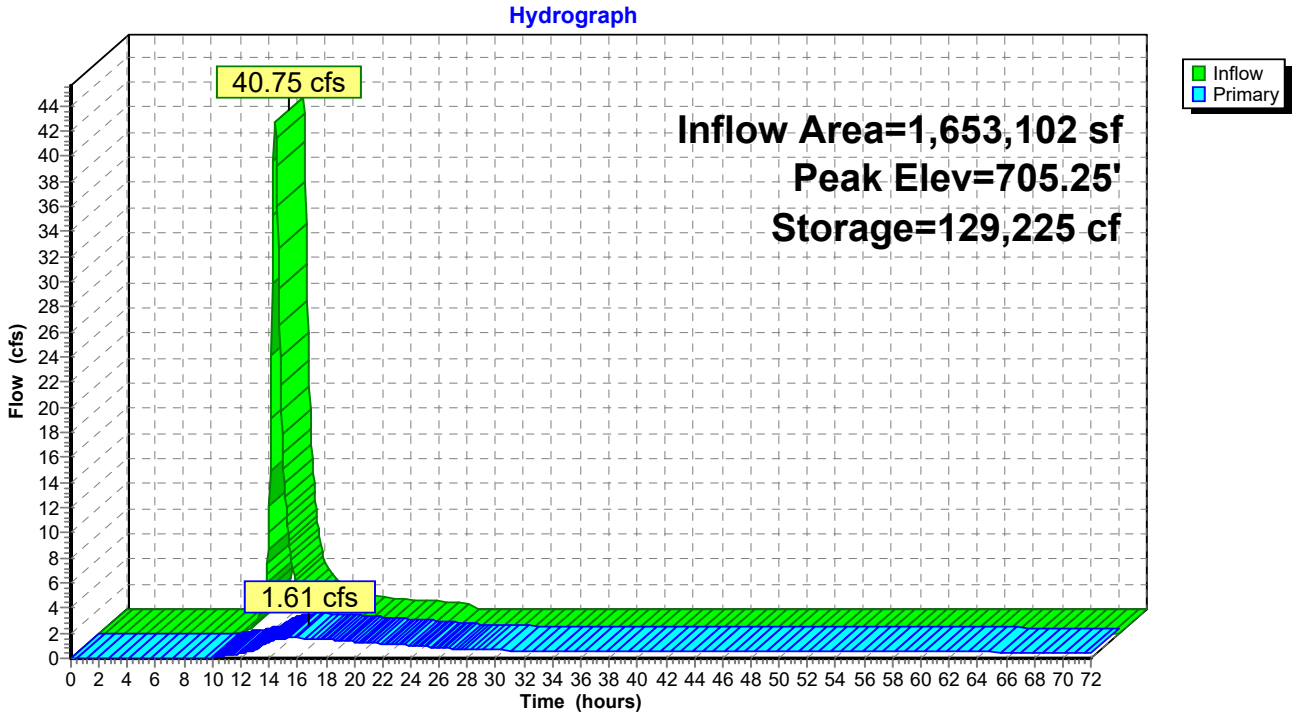
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.61 cfs @ 15.81 hrs HW=705.25' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 1.61 cfs of 40.97 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.65 cfs @ 9.76 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 0.96 cfs @ 2.29 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

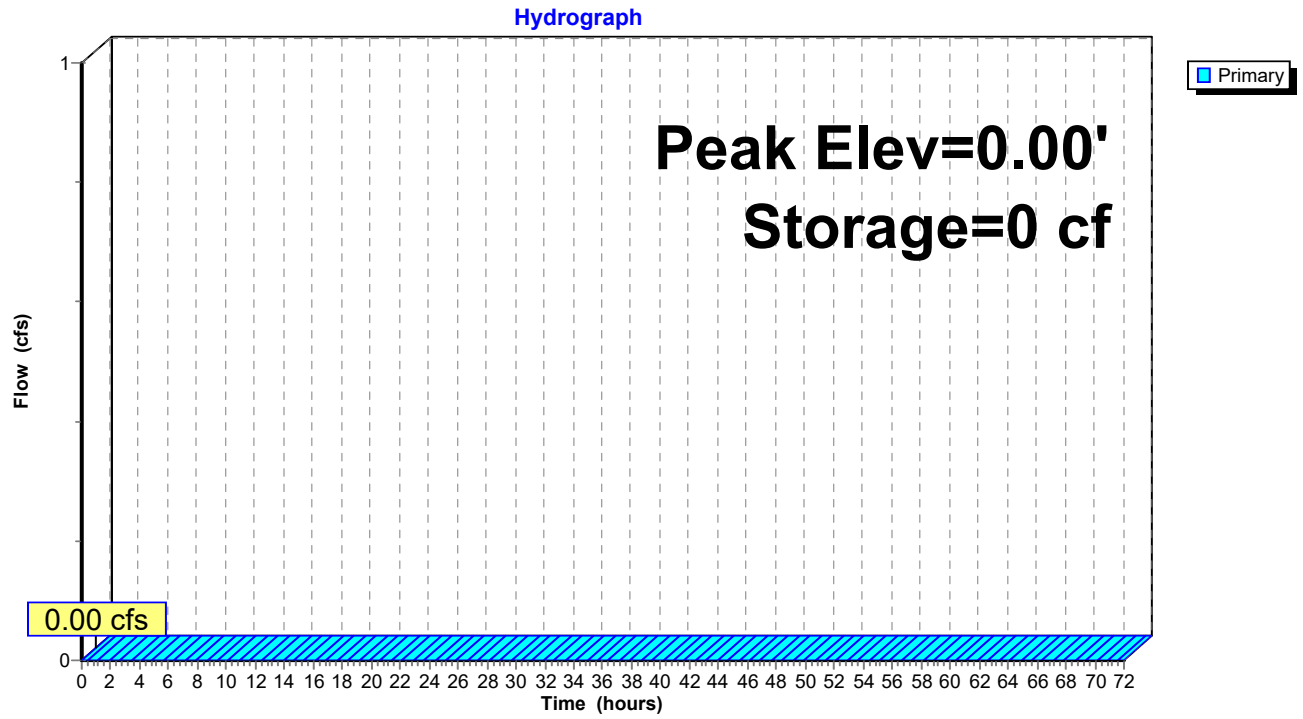
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

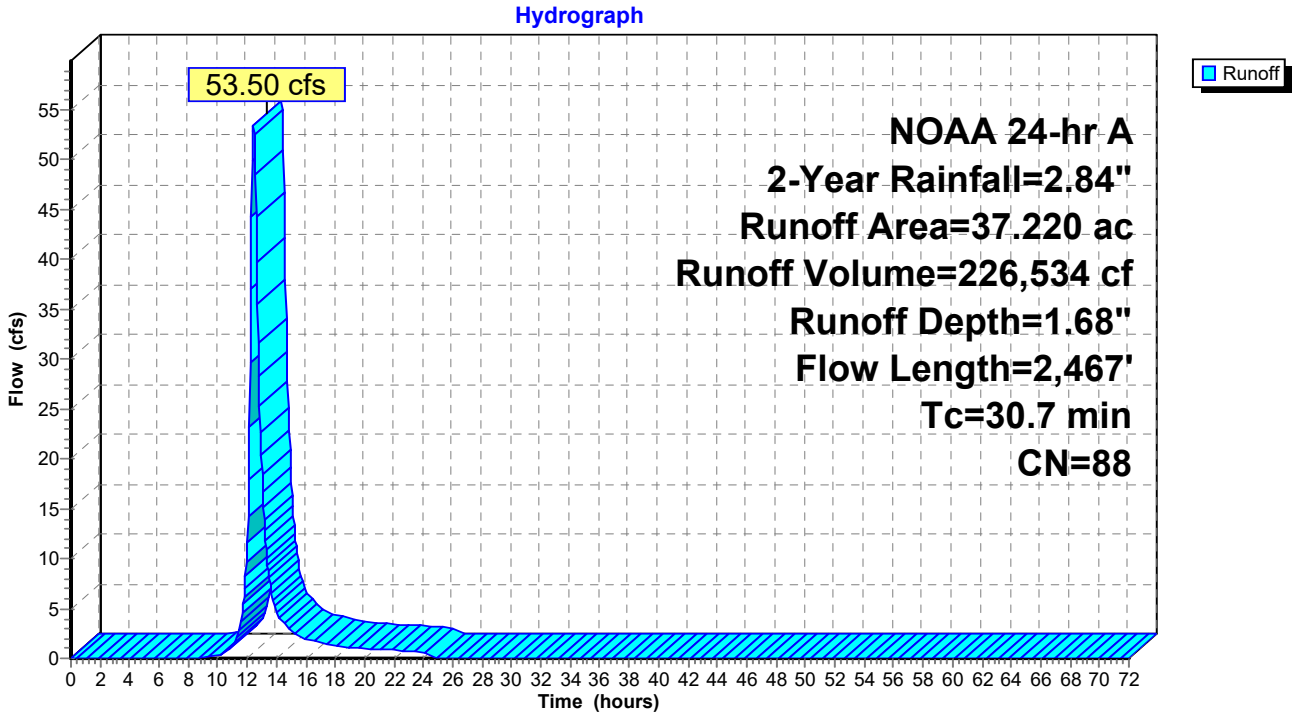
Runoff = 53.50 cfs @ 12.44 hrs, Volume= 226,534 cf, Depth= 1.68"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



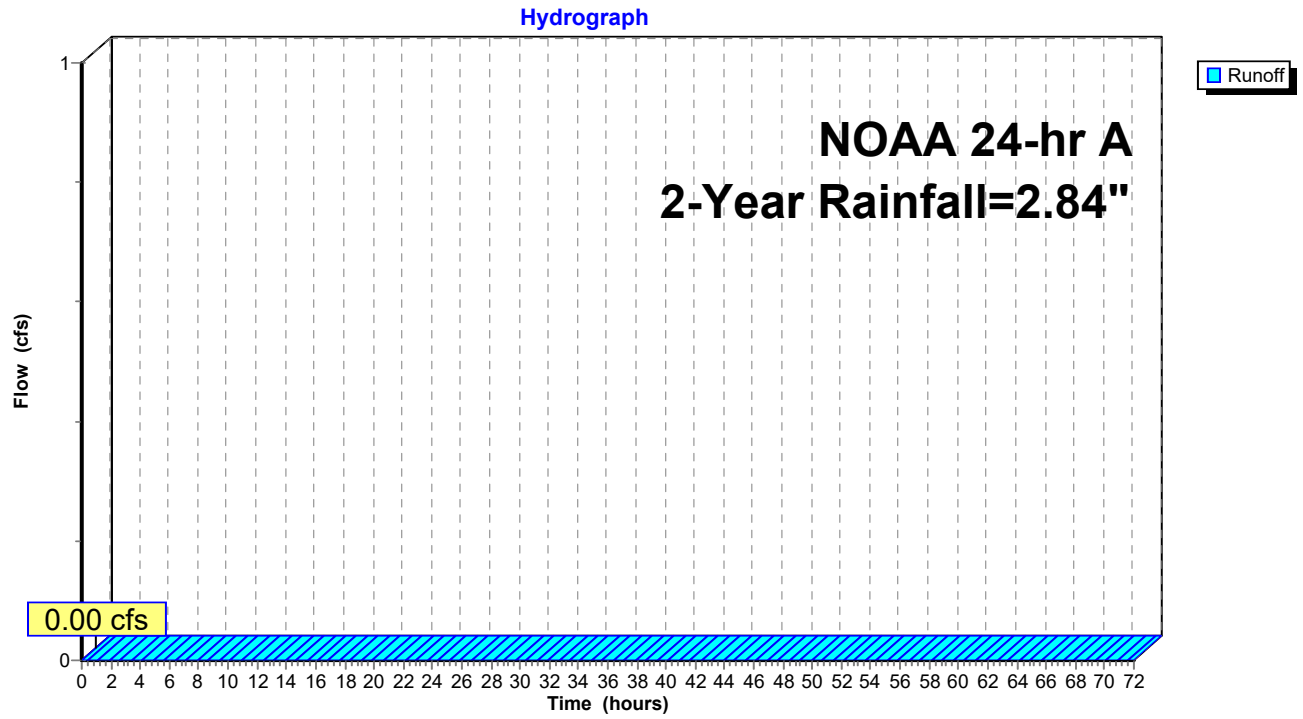
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

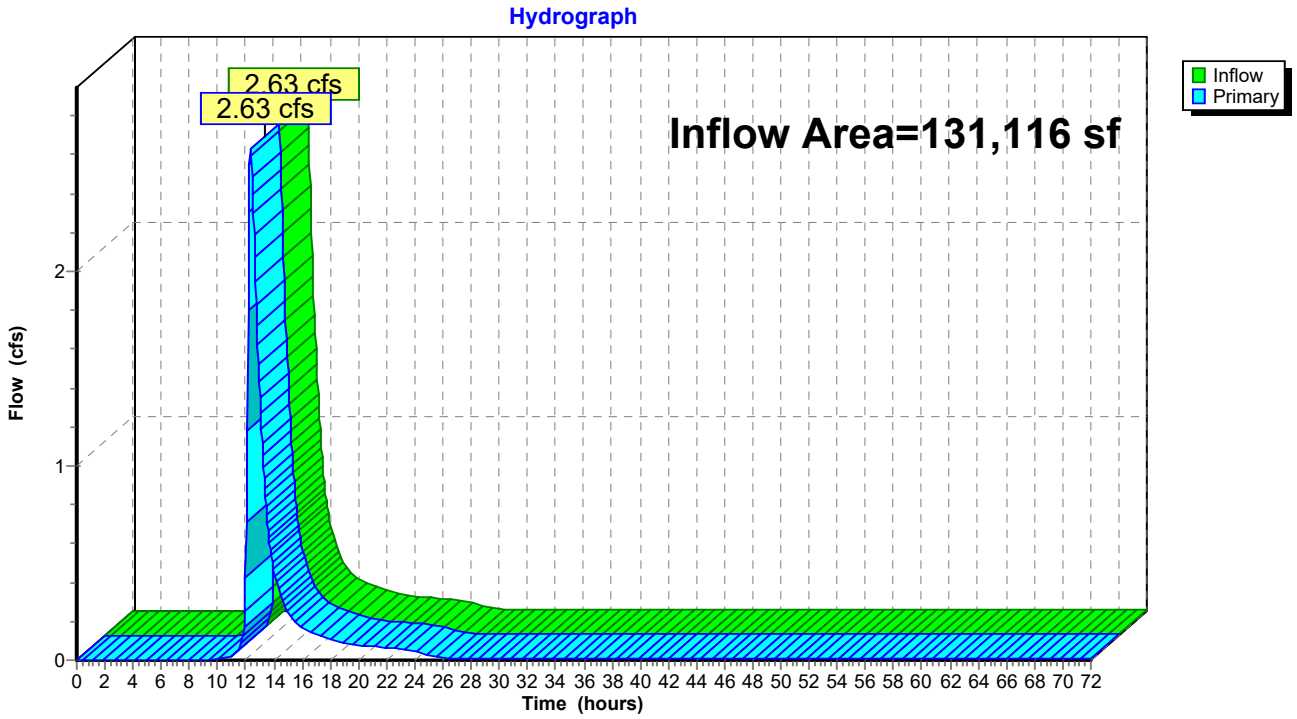


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.46" for 2-Year event
Inflow = 2.63 cfs @ 12.32 hrs, Volume= 15,962 cf
Primary = 2.63 cfs @ 12.32 hrs, Volume= 15,962 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

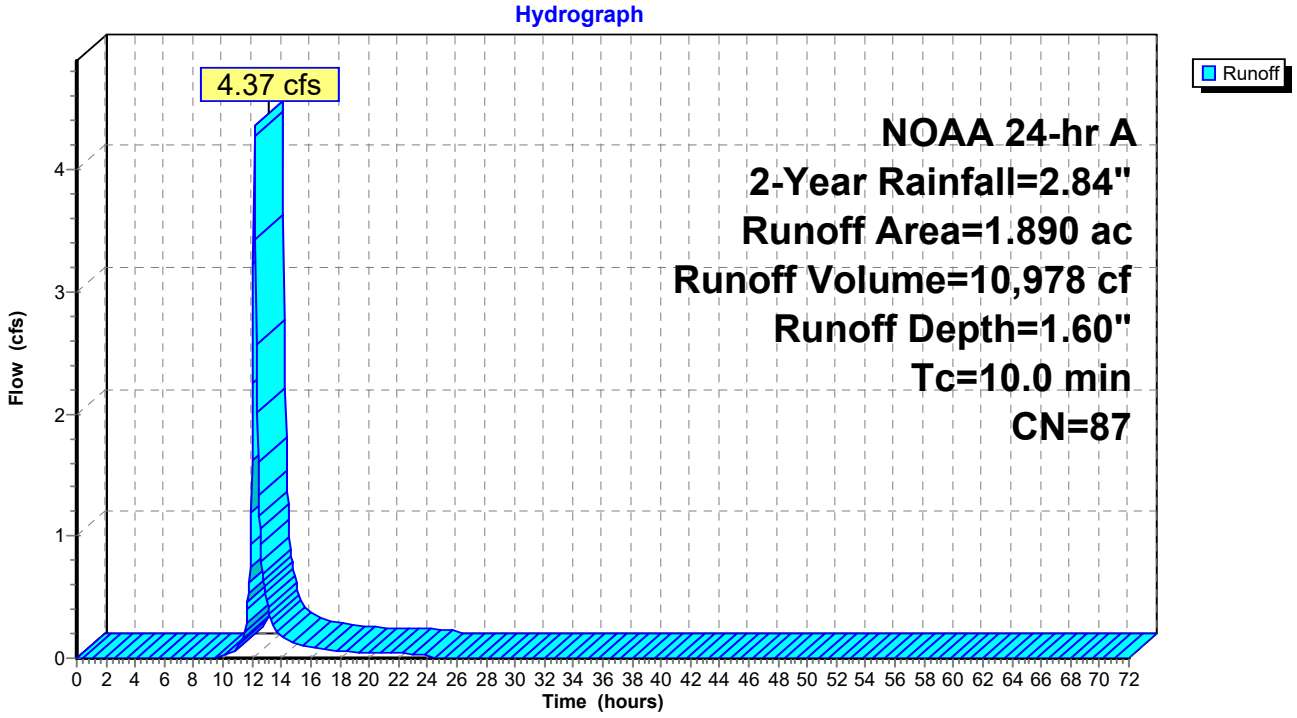
Runoff = 4.37 cfs @ 12.18 hrs, Volume= 10,978 cf, Depth= 1.60"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

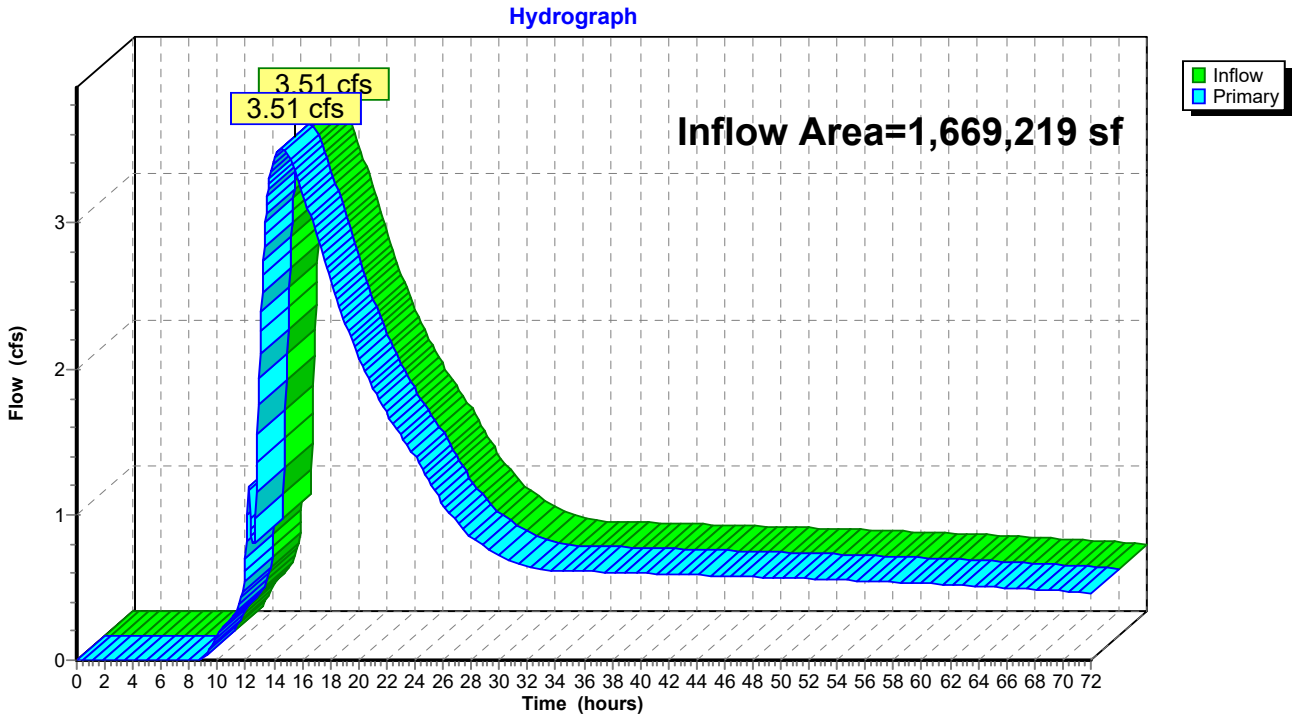


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 1.51" for 2-Year event
Inflow = 3.51 cfs @ 14.52 hrs, Volume= 210,649 cf
Primary = 3.51 cfs @ 14.52 hrs, Volume= 210,649 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

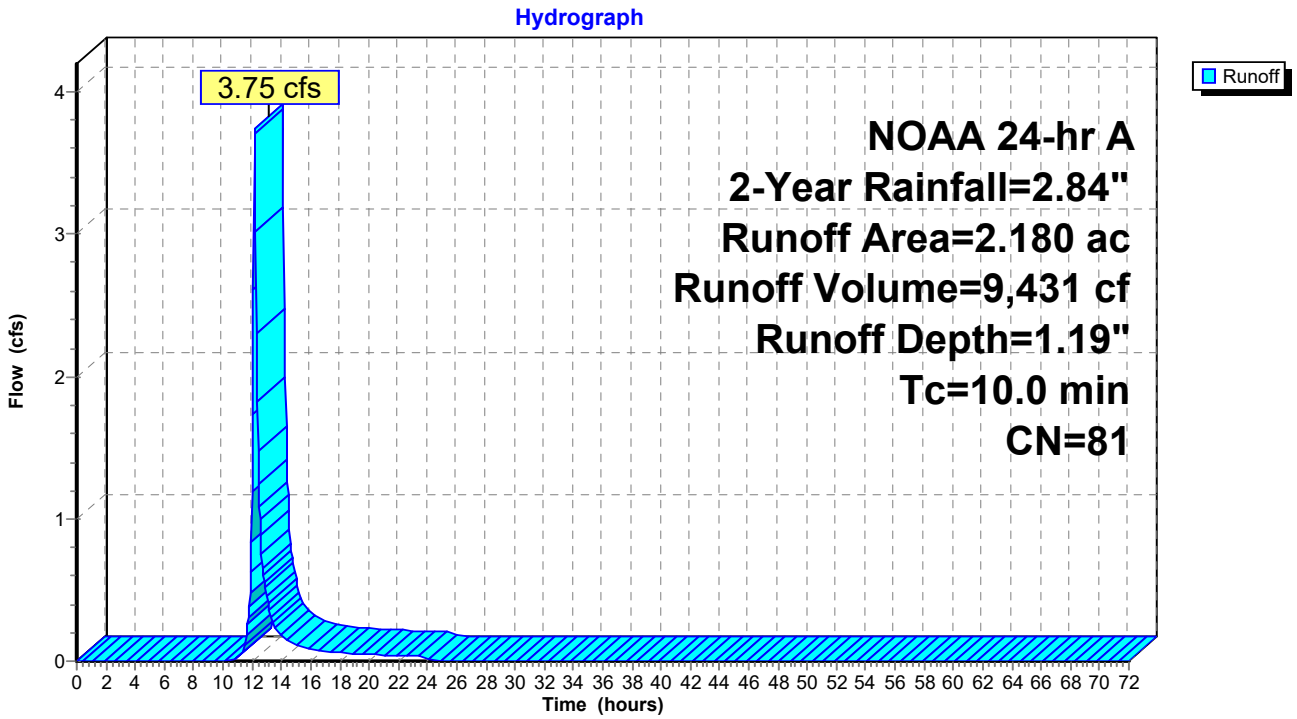
Runoff = 3.75 cfs @ 12.18 hrs, Volume= 9,431 cf, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

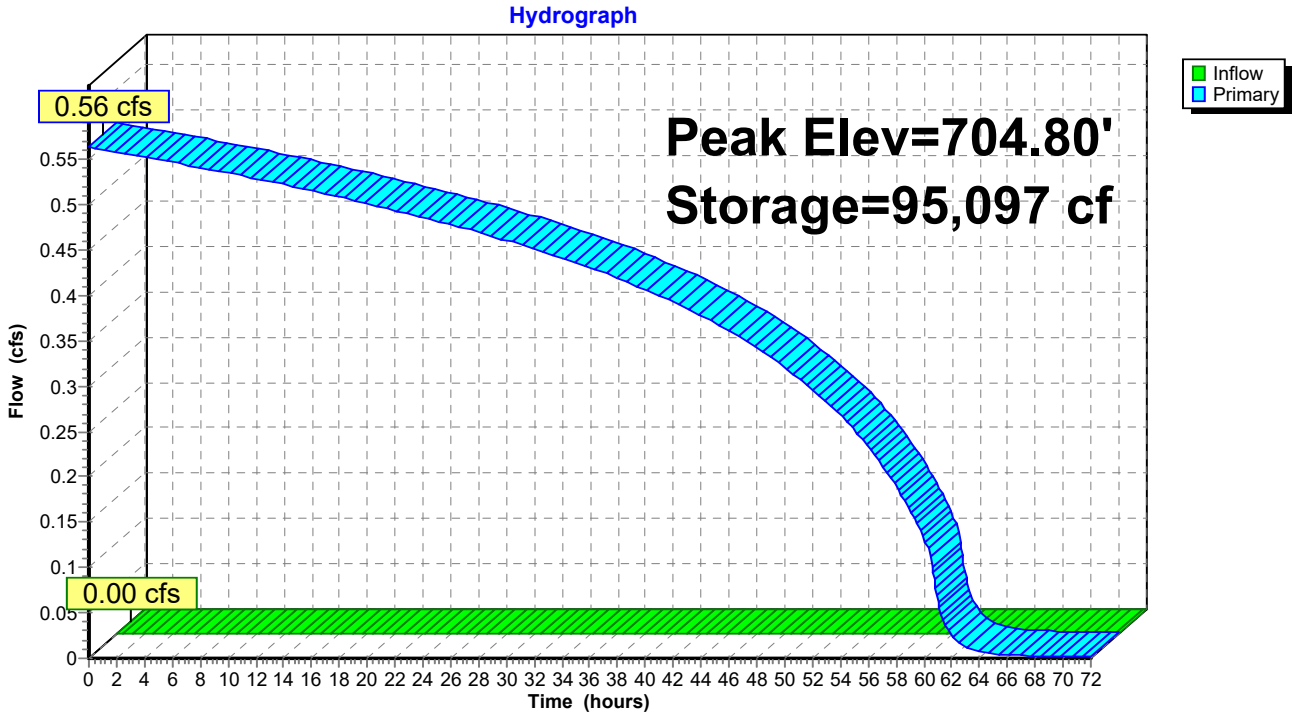
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

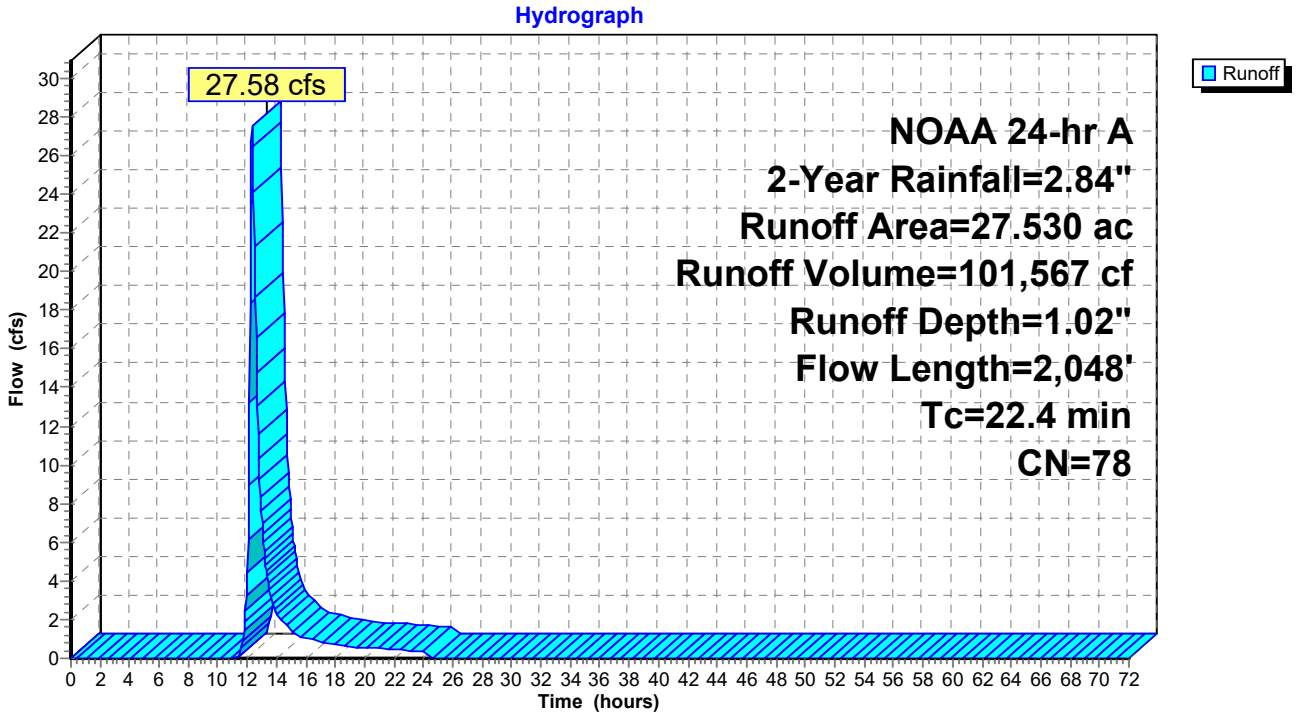
Runoff = 27.58 cfs @ 12.35 hrs, Volume= 101,567 cf, Depth= 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.01 cfs @ 0.00 hrs, Volume= 1,226 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.01 cfs @ 0.00 hrs, Volume= 1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

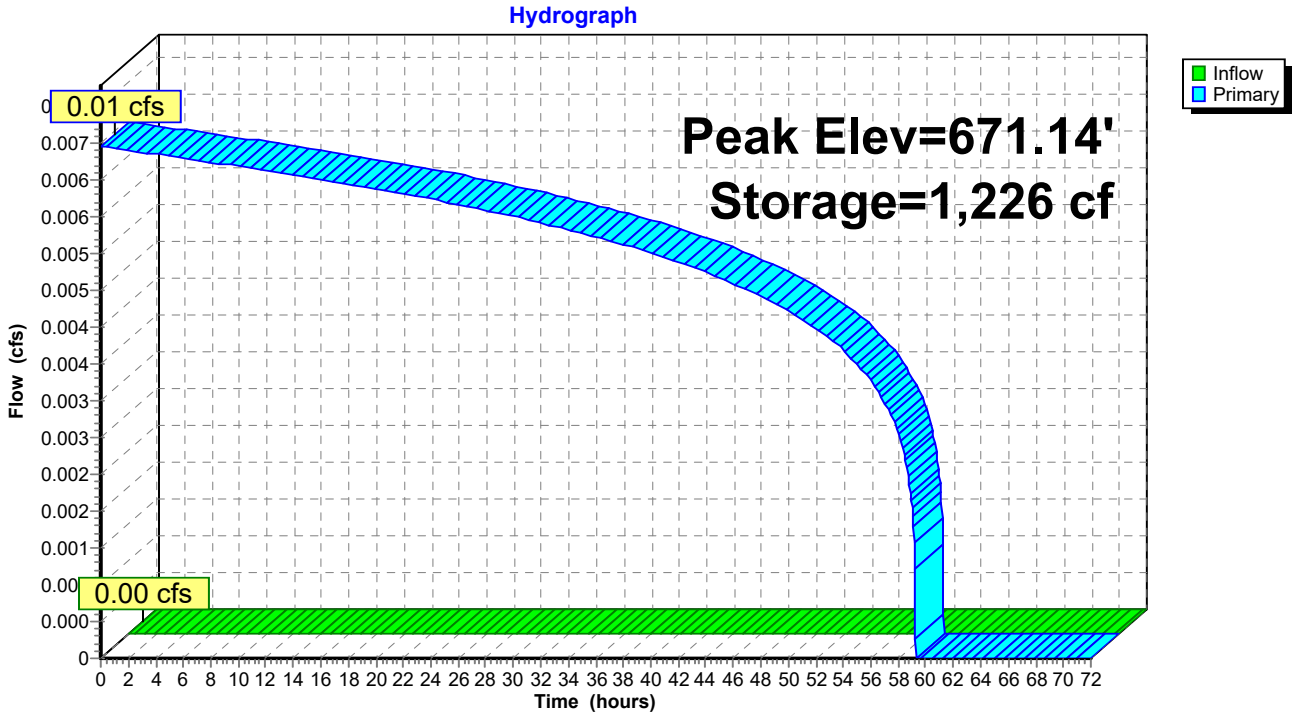
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

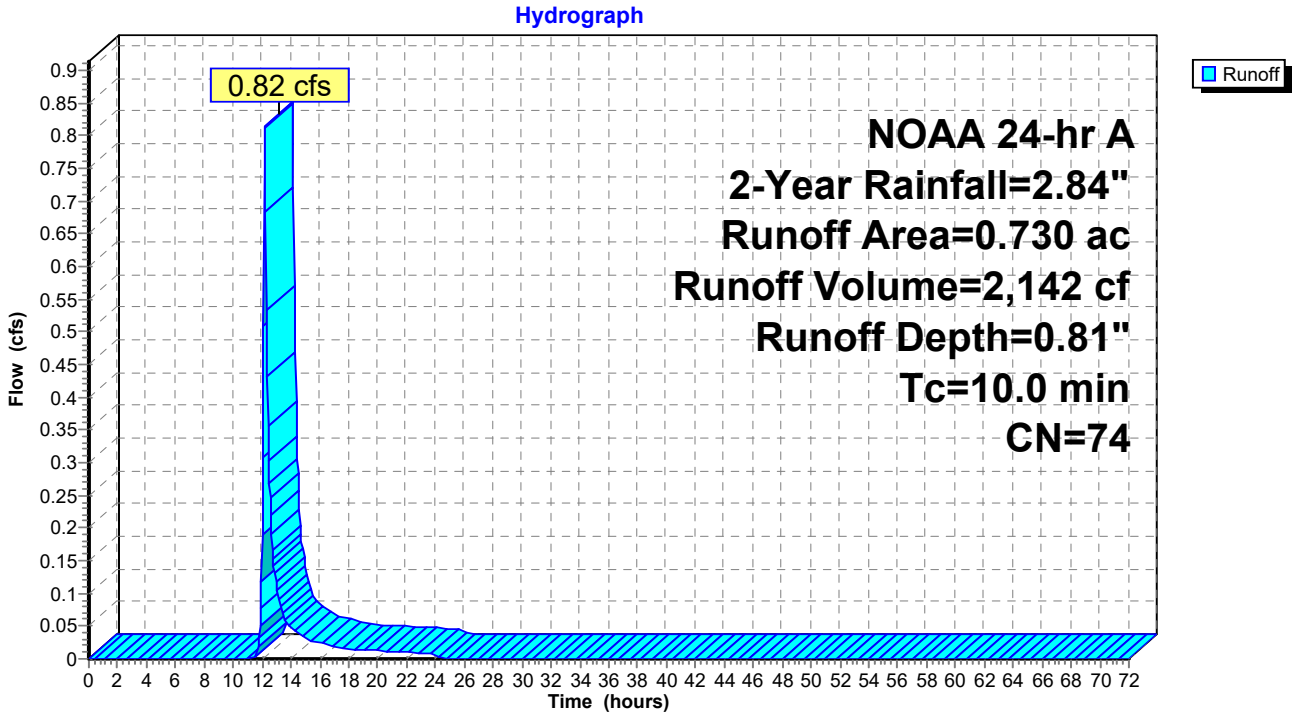
Runoff = 0.82 cfs @ 12.19 hrs, Volume= 2,142 cf, Depth= 0.81"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

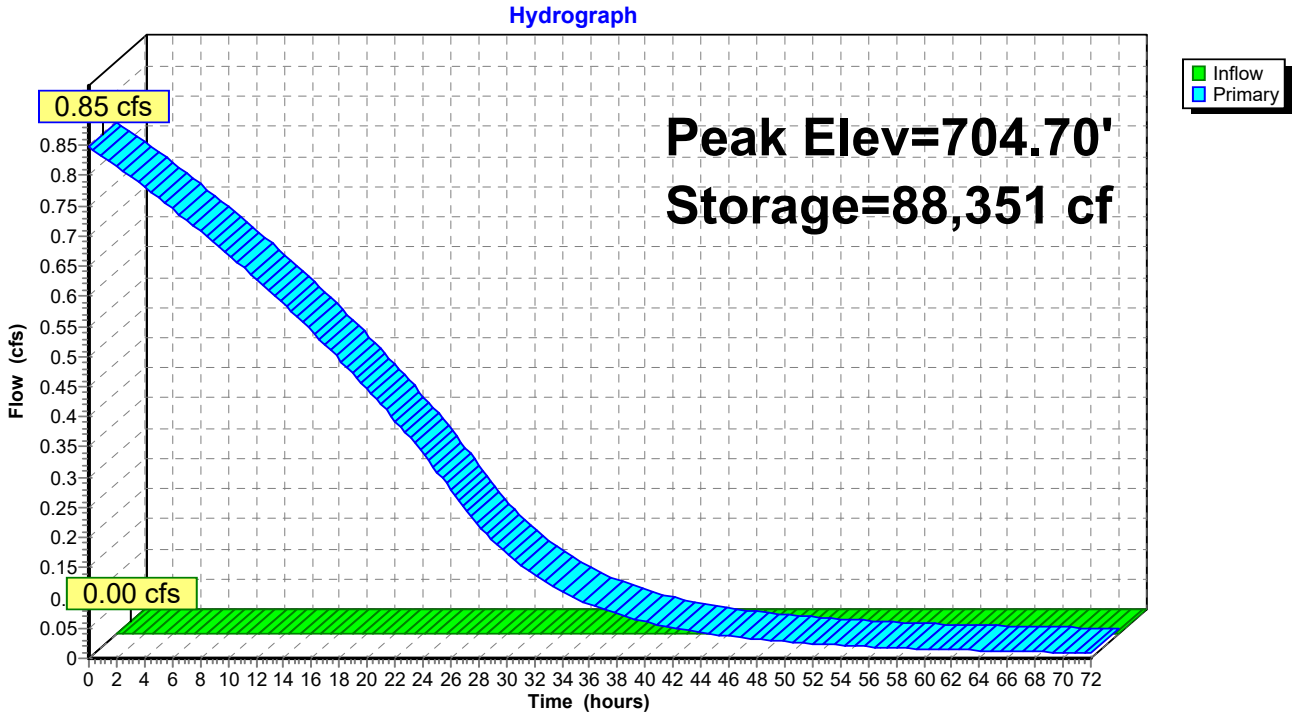
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

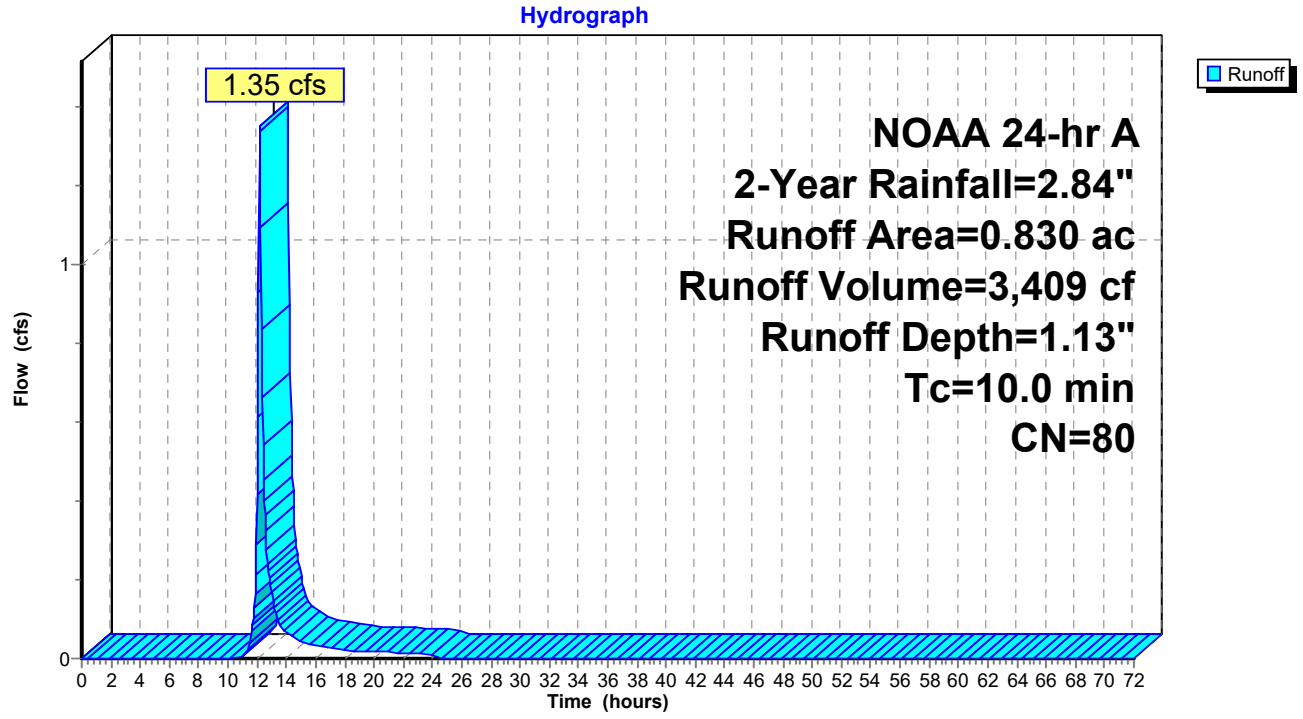
Runoff = 1.35 cfs @ 12.18 hrs, Volume= 3,409 cf, Depth= 1.13"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

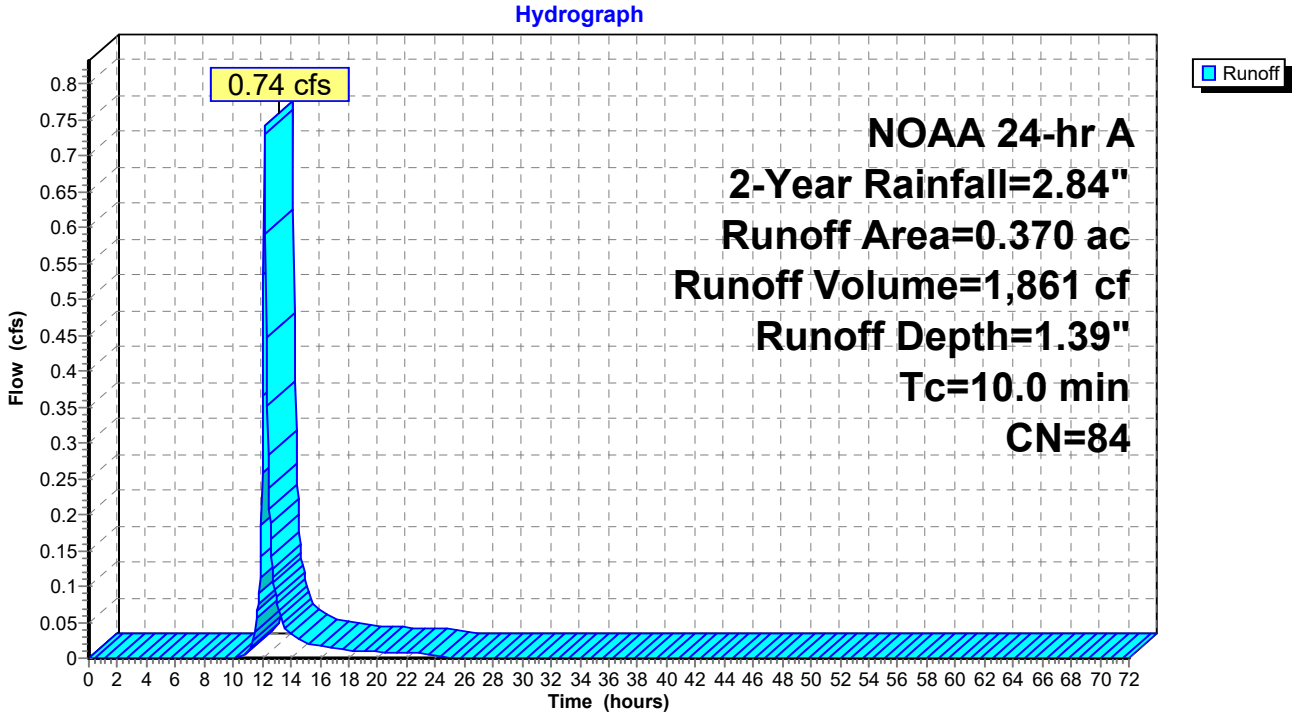
Runoff = 0.74 cfs @ 12.18 hrs, Volume= 1,861 cf, Depth= 1.39"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

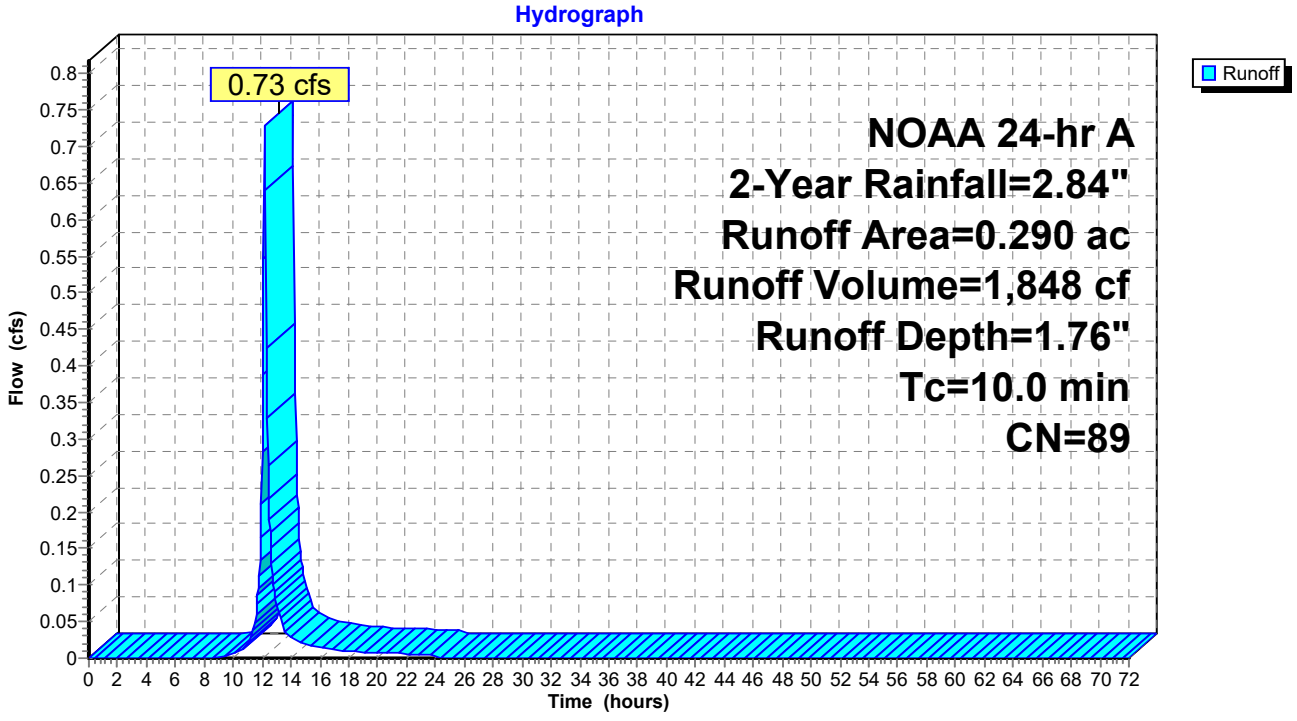
Runoff = 0.73 cfs @ 12.18 hrs, Volume= 1,848 cf, Depth= 1.76"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

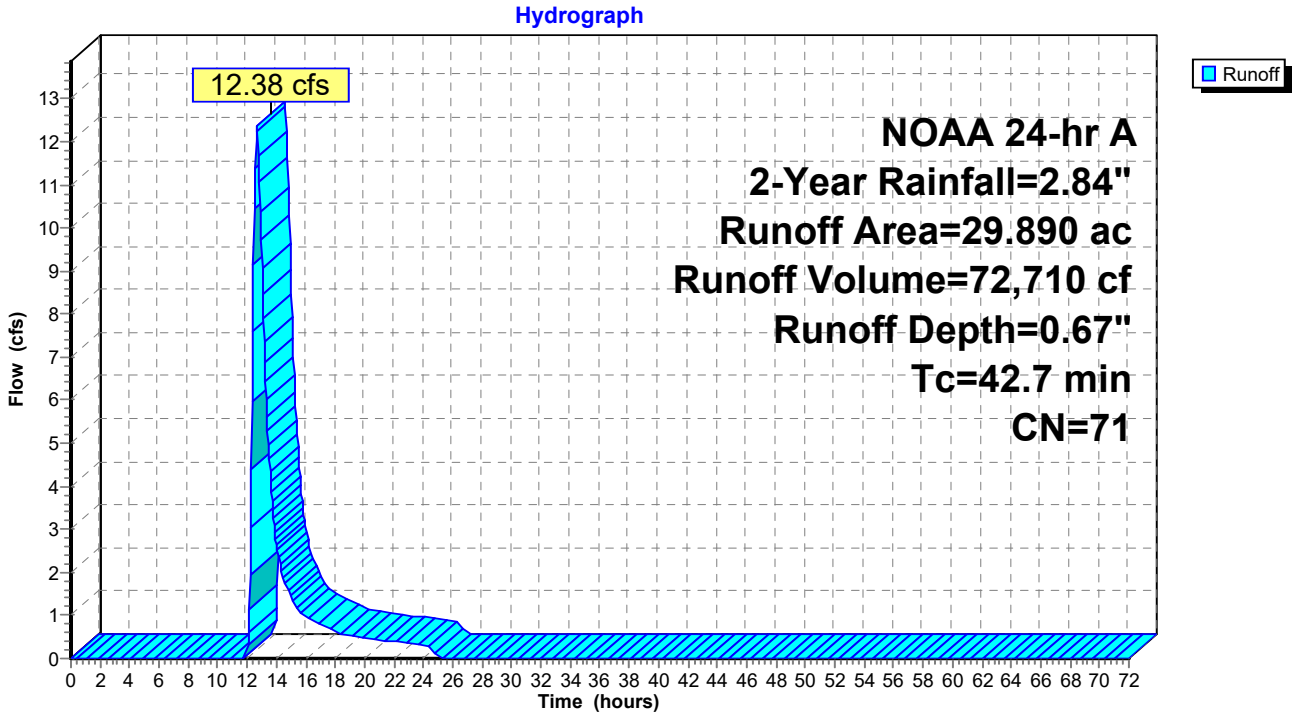
Runoff = 12.38 cfs @ 12.68 hrs, Volume= 72,710 cf, Depth= 0.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 2-Year Rainfall=2.84"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.46" for 2-Year event
Inflow = 5.72 cfs @ 12.18 hrs, Volume= 14,387 cf
Outflow = 2.30 cfs @ 12.39 hrs, Volume= 14,114 cf, Atten= 60%, Lag= 12.6 min
Primary = 2.30 cfs @ 12.39 hrs, Volume= 14,114 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 671.90' @ 12.39 hrs Surf.Area= 8,089 sf Storage= 5,329 cf

Plug-Flow detention time= 214.8 min calculated for 14,114 cf (98% of inflow)
Center-of-Mass det. time= 203.4 min (1,015.6 - 812.1)

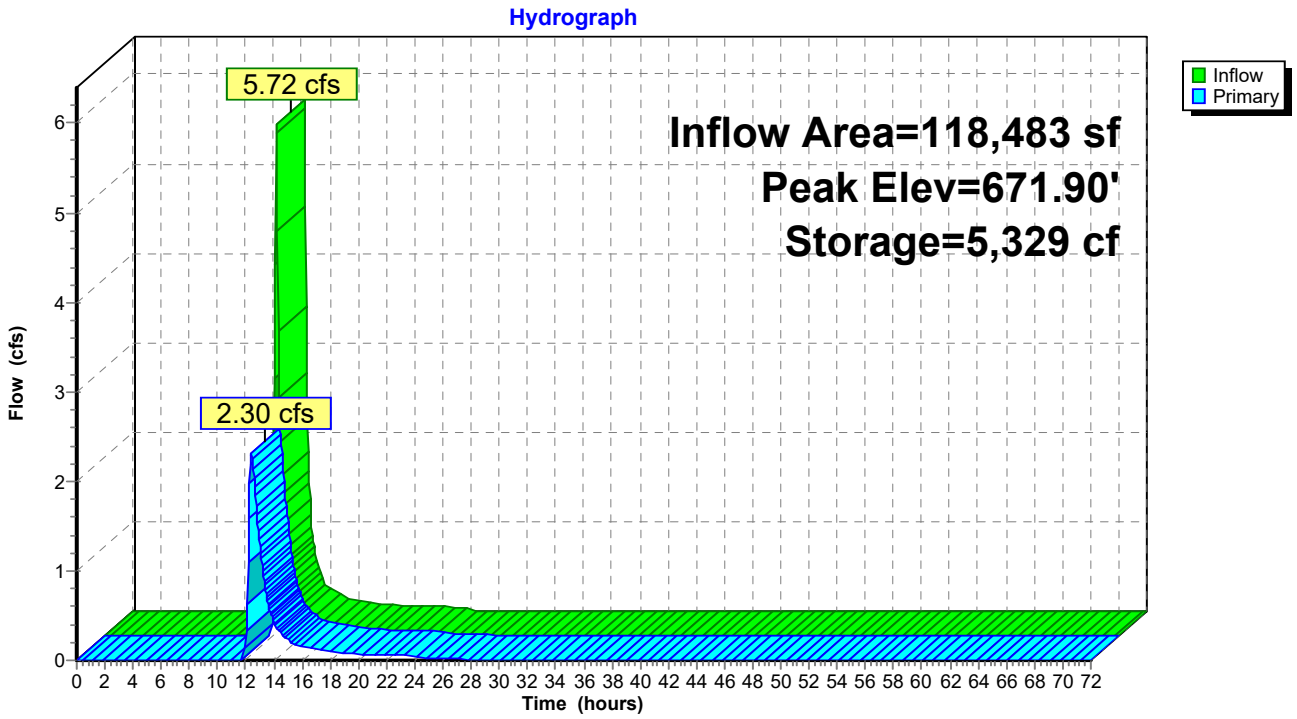
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.30 cfs @ 12.39 hrs HW=671.89' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 2.30 cfs of 14.42 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.59 fps)
  └─**3=Orifice/Grate** (Orifice Controls 2.29 cfs @ 2.96 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 1.66" for 2-Year event
Inflow = 53.82 cfs @ 12.44 hrs, Volume= 228,676 cf
Outflow = 3.48 cfs @ 14.55 hrs, Volume= 208,788 cf, Atten= 94%, Lag= 127.0 min
Primary = 3.48 cfs @ 14.55 hrs, Volume= 208,788 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 705.62' @ 14.55 hrs Surf.Area= 88,611 sf Storage= 160,502 cf

Plug-Flow detention time= 1,106.1 min calculated for 208,643 cf (91% of inflow)
Center-of-Mass det. time= 1,066.3 min (1,890.6 - 824.3)

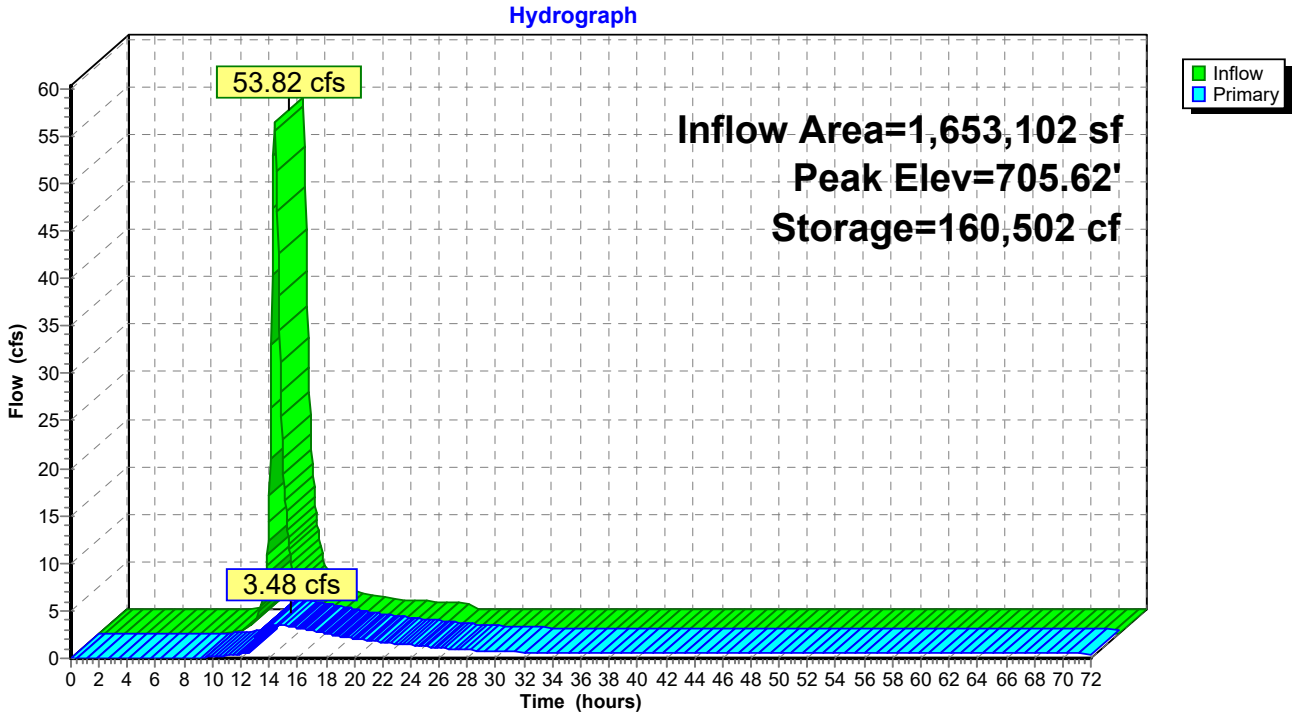
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.48 cfs @ 14.55 hrs HW=705.62' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 3.48 cfs of 43.42 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.68 cfs @ 10.19 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 2.80 cfs @ 3.09 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

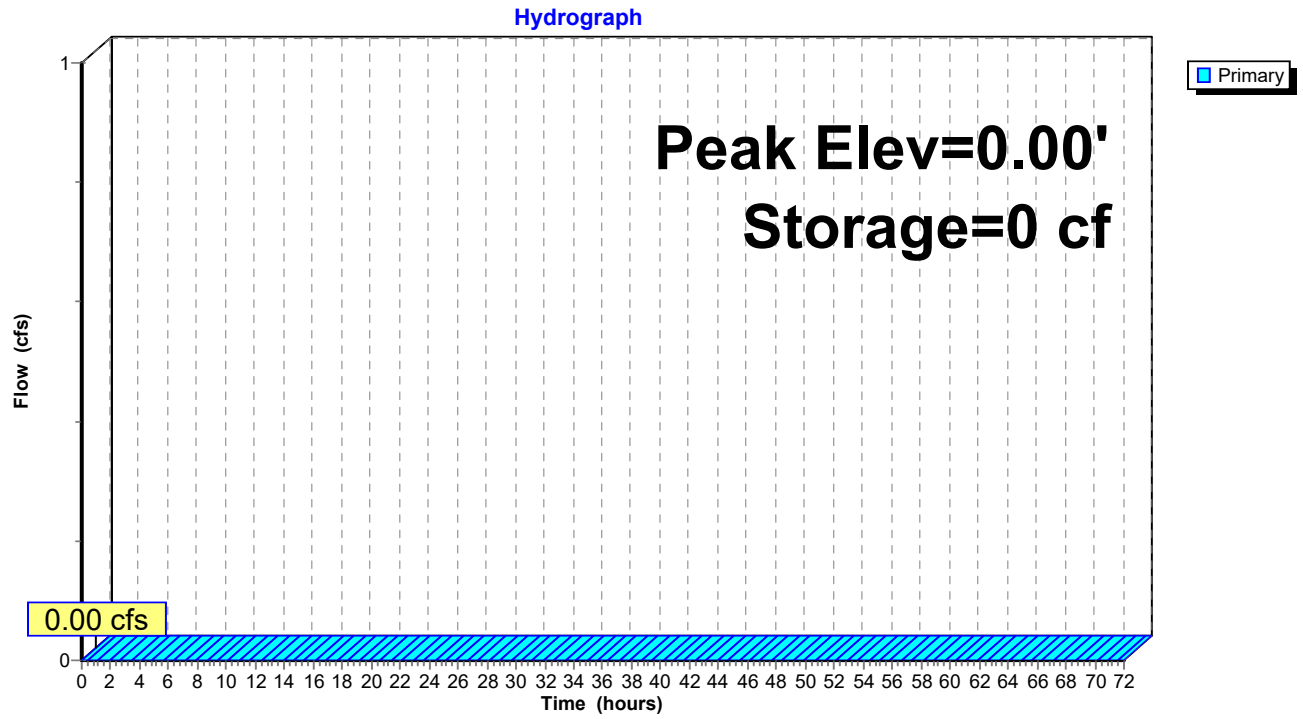
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

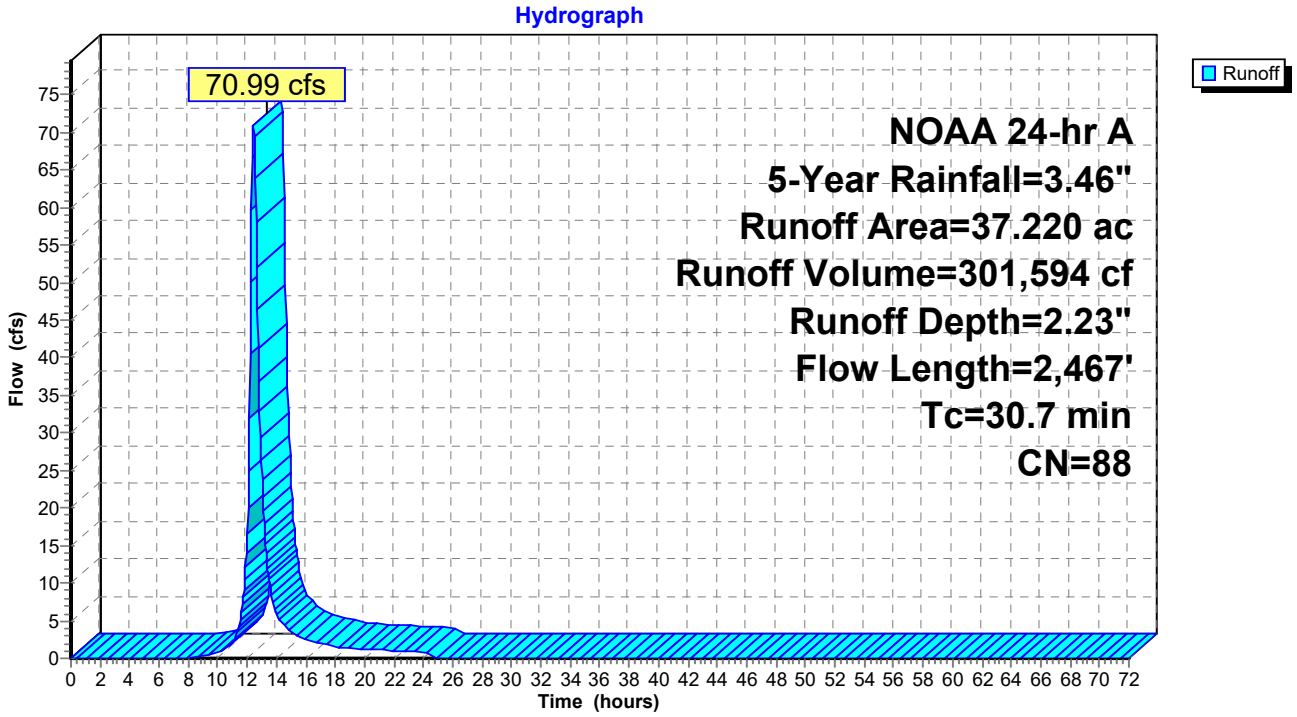
Runoff = 70.99 cfs @ 12.43 hrs, Volume= 301,594 cf, Depth= 2.23"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



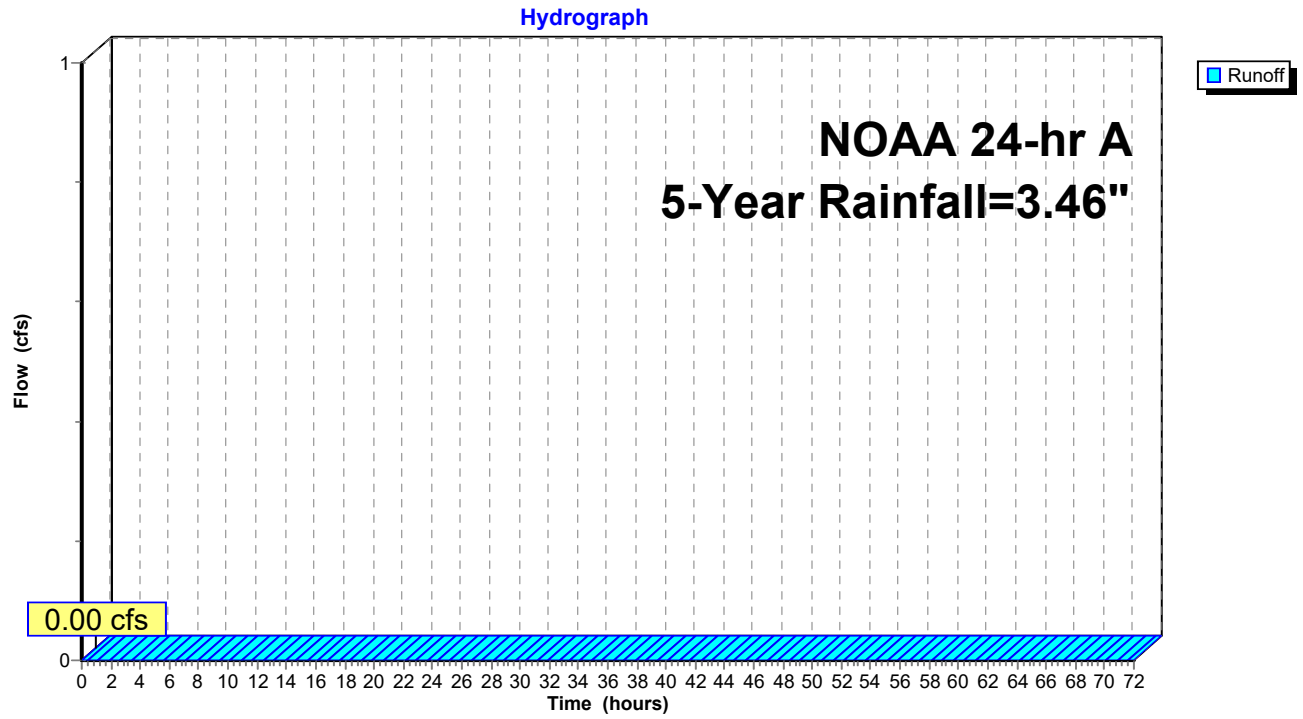
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

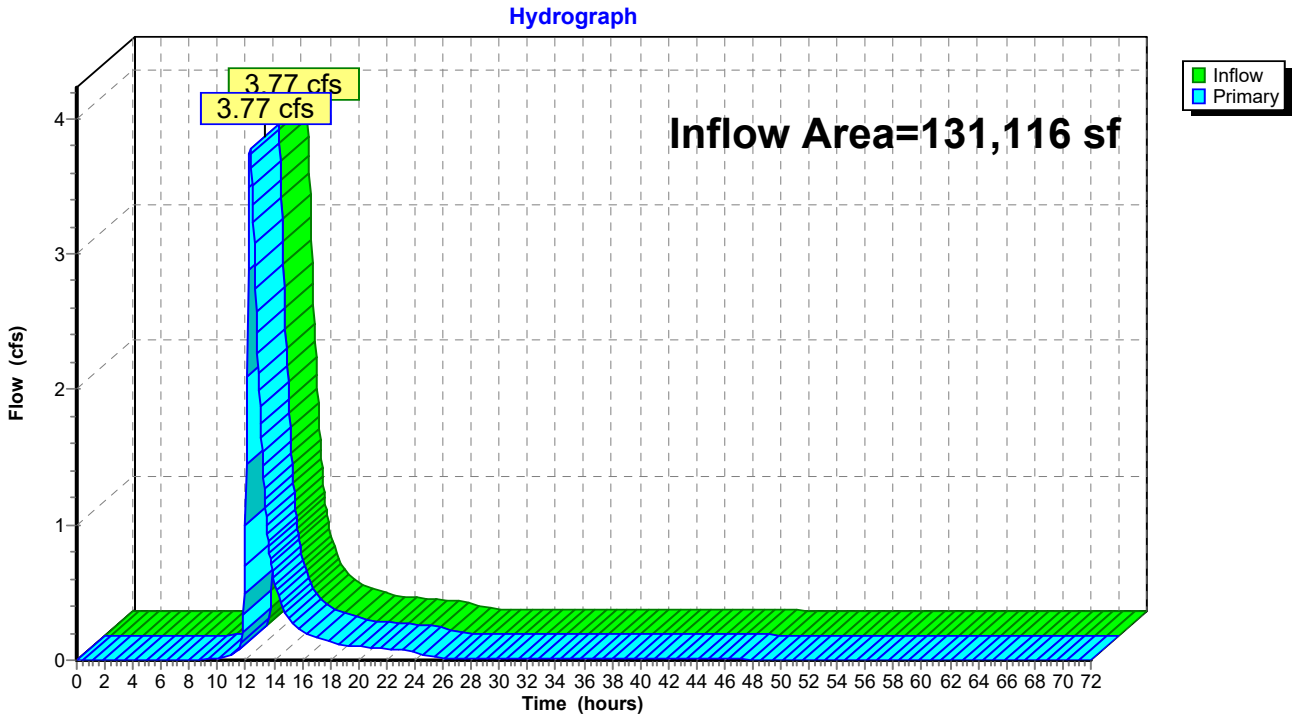


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 1.99" for 5-Year event
Inflow = 3.77 cfs @ 12.30 hrs, Volume= 21,726 cf
Primary = 3.77 cfs @ 12.30 hrs, Volume= 21,726 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

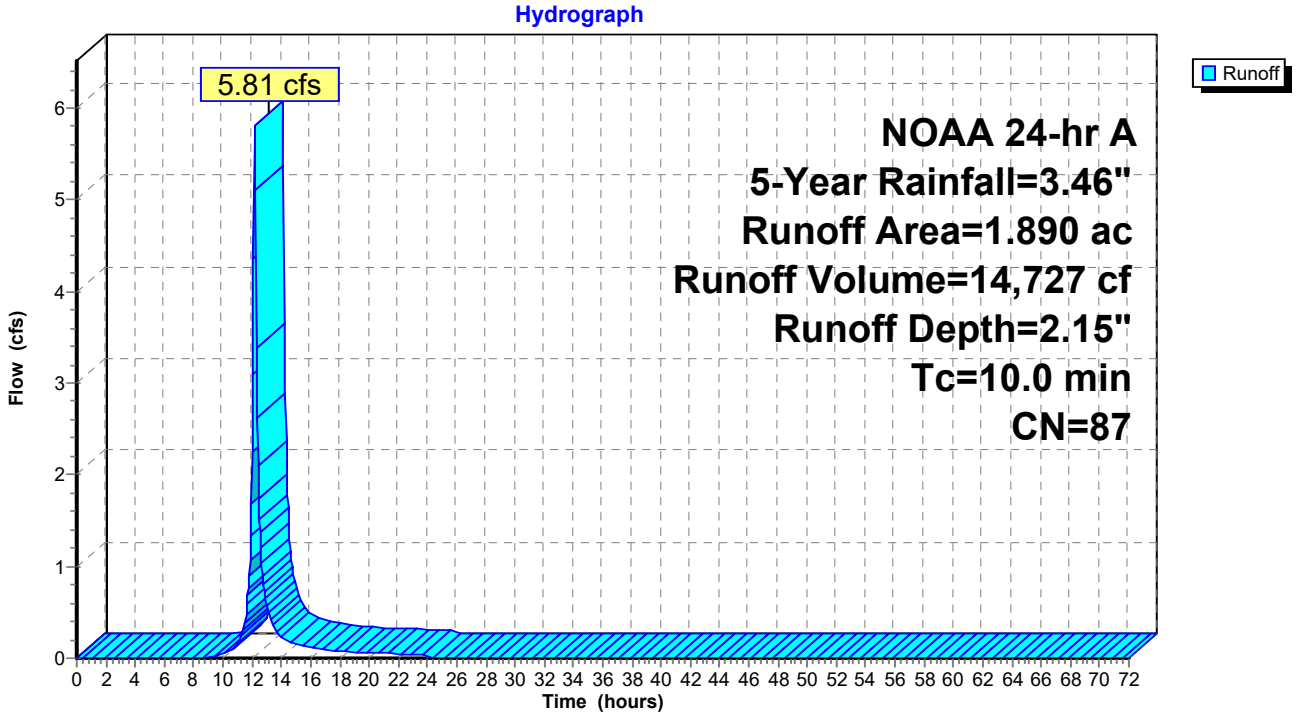
Runoff = 5.81 cfs @ 12.18 hrs, Volume= 14,727 cf, Depth= 2.15"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

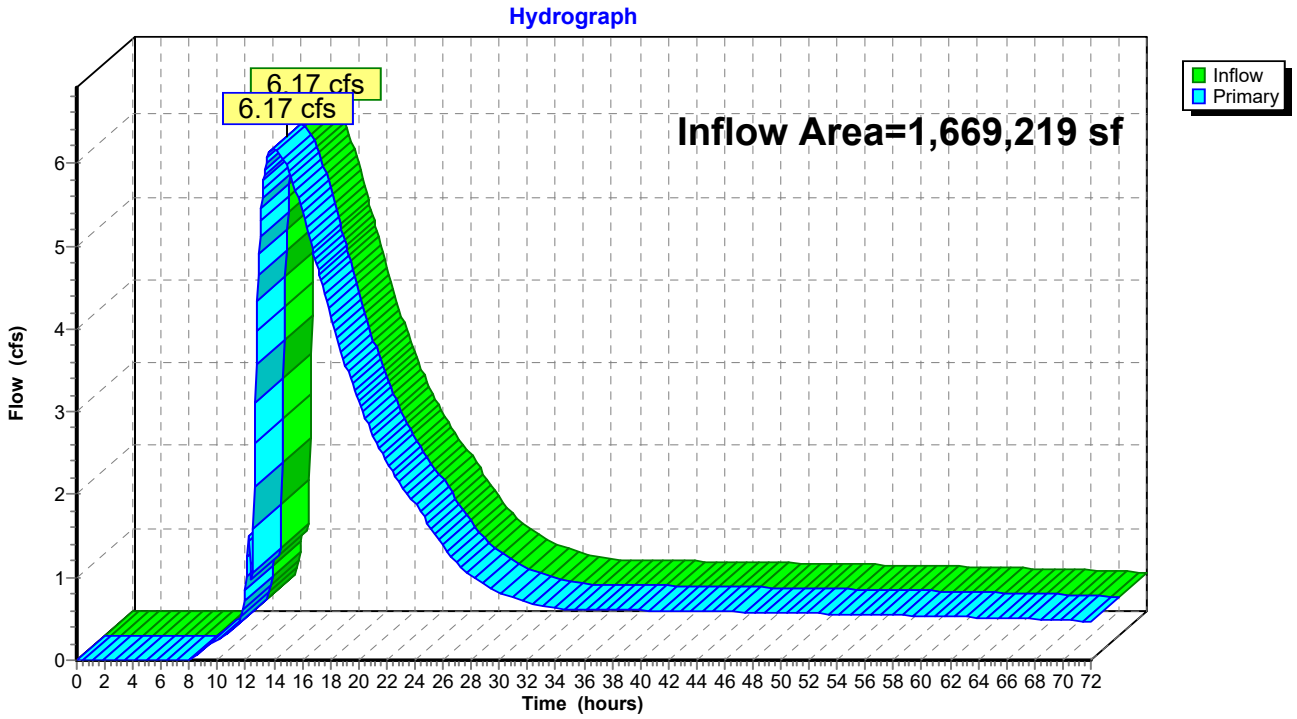


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 2.05" for 5-Year event
Inflow = 6.17 cfs @ 13.94 hrs, Volume= 284,732 cf
Primary = 6.17 cfs @ 13.94 hrs, Volume= 284,732 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

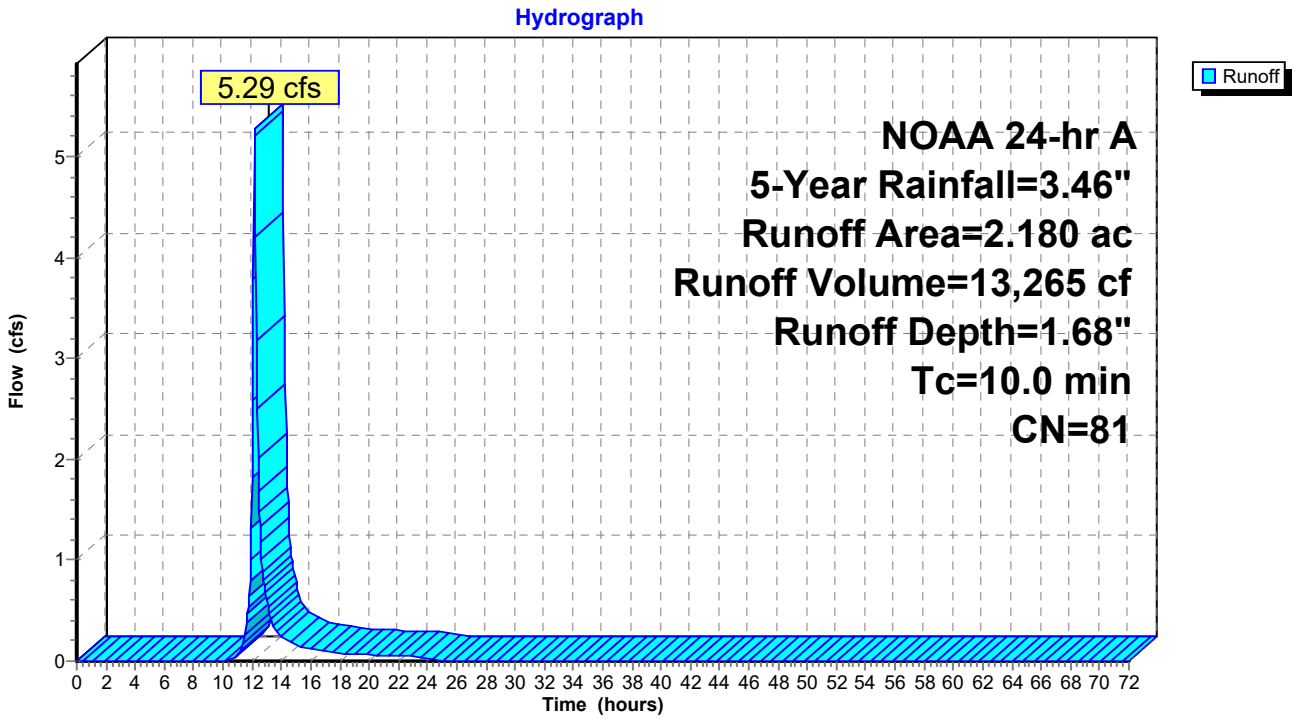
Runoff = 5.29 cfs @ 12.18 hrs, Volume= 13,265 cf, Depth= 1.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

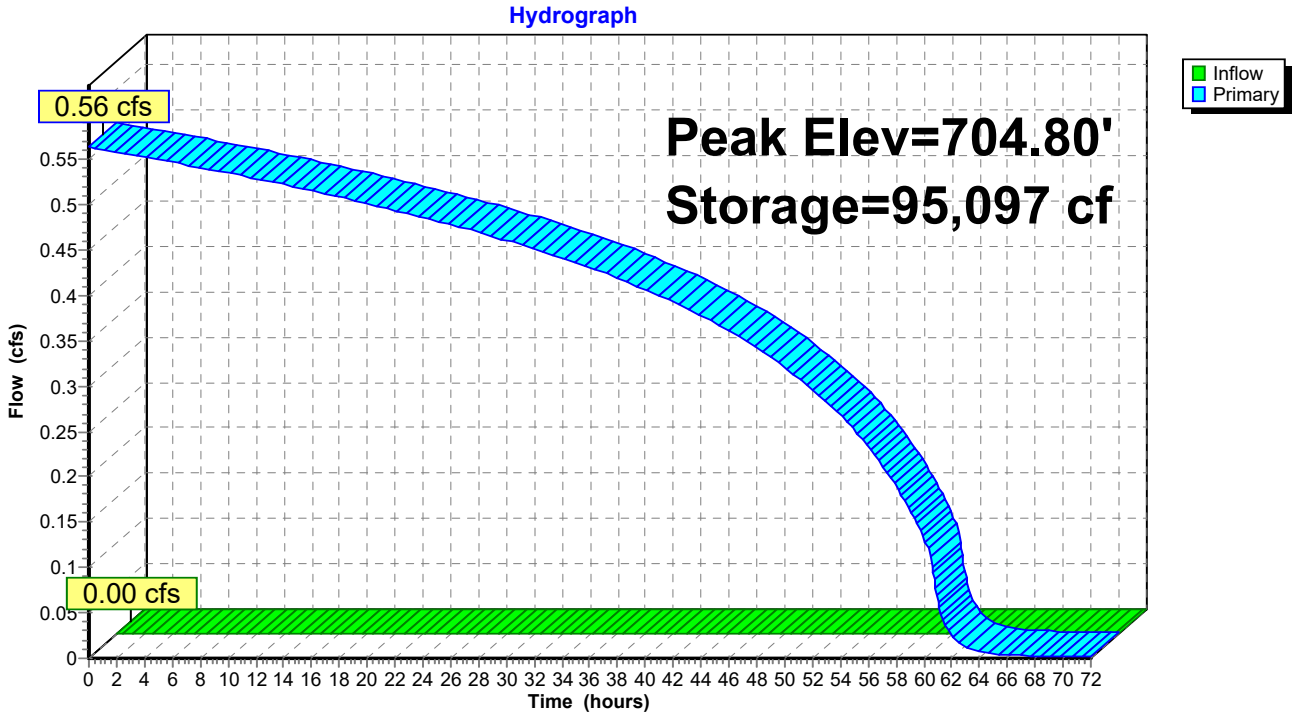
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

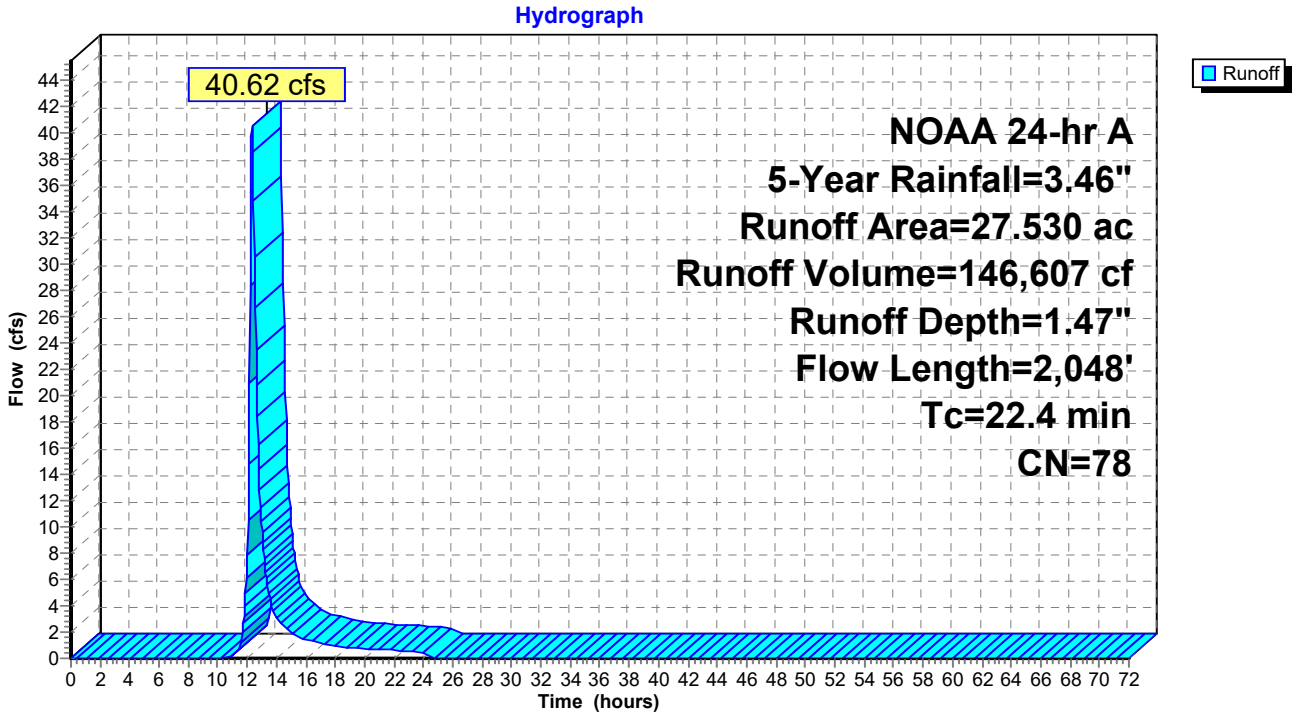
Runoff = 40.62 cfs @ 12.34 hrs, Volume= 146,607 cf, Depth= 1.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

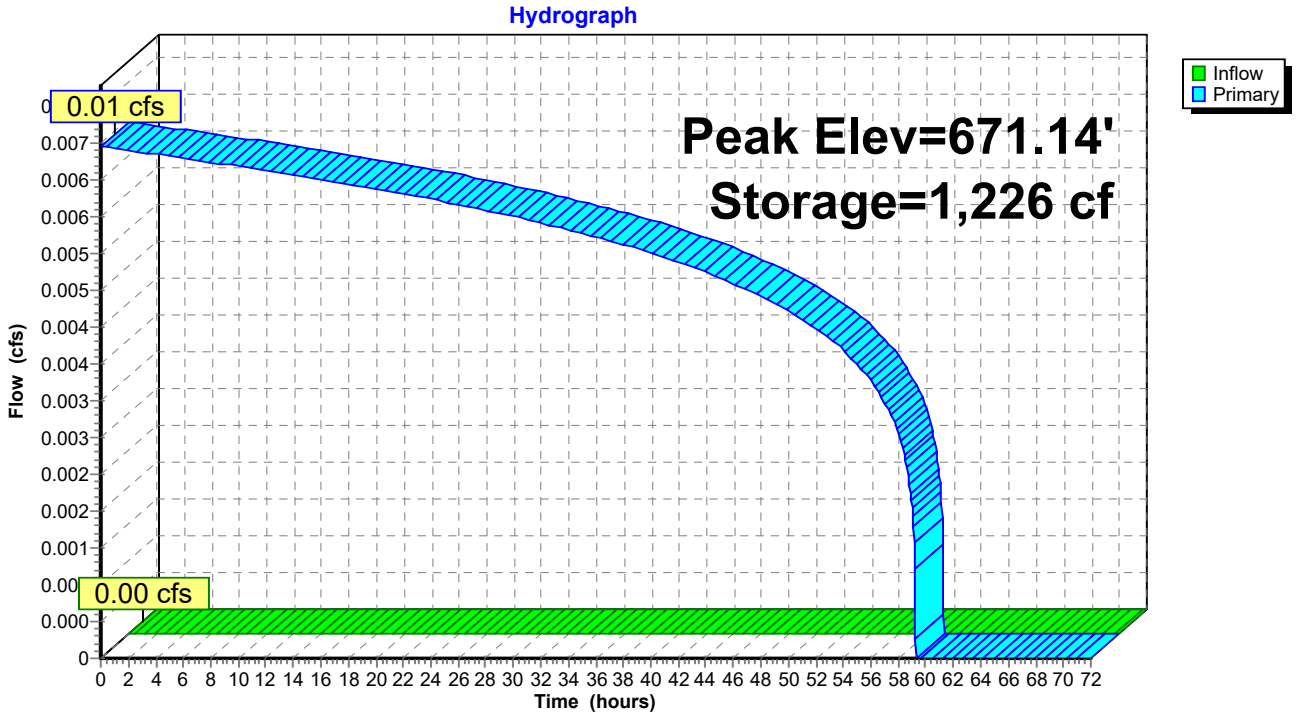
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

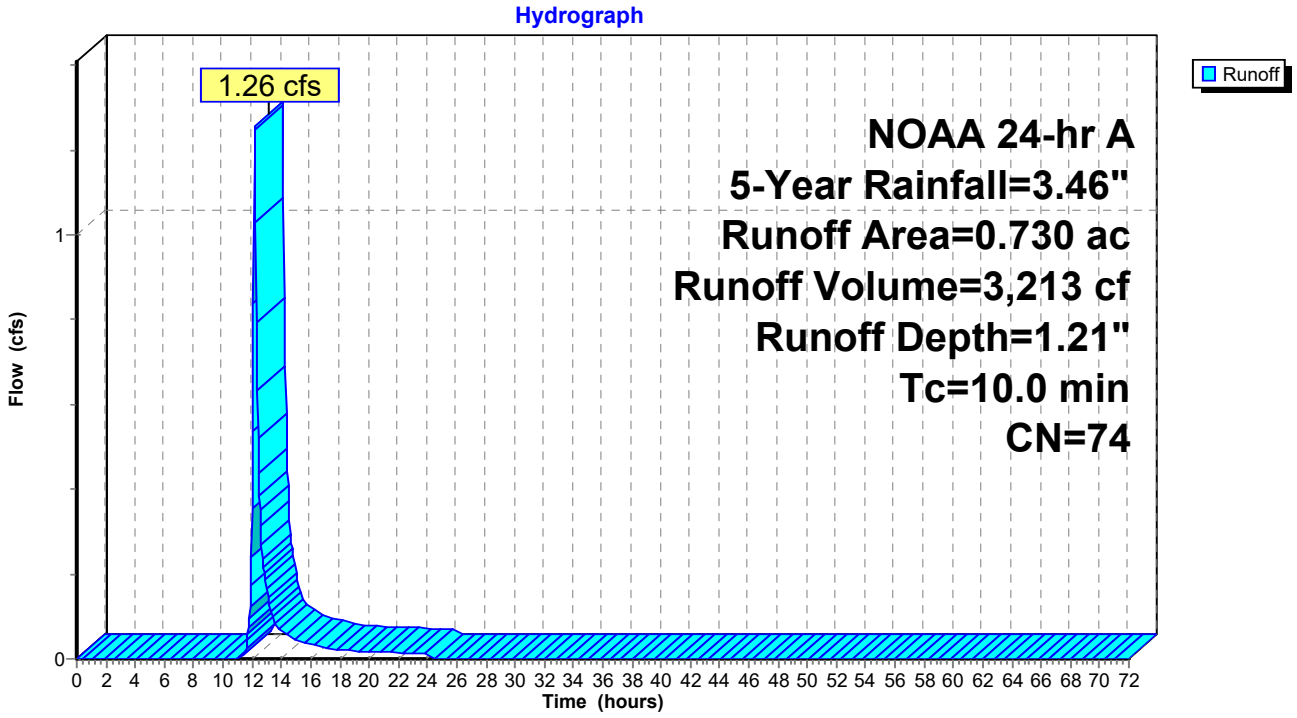
Runoff = 1.26 cfs @ 12.19 hrs, Volume= 3,213 cf, Depth= 1.21"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

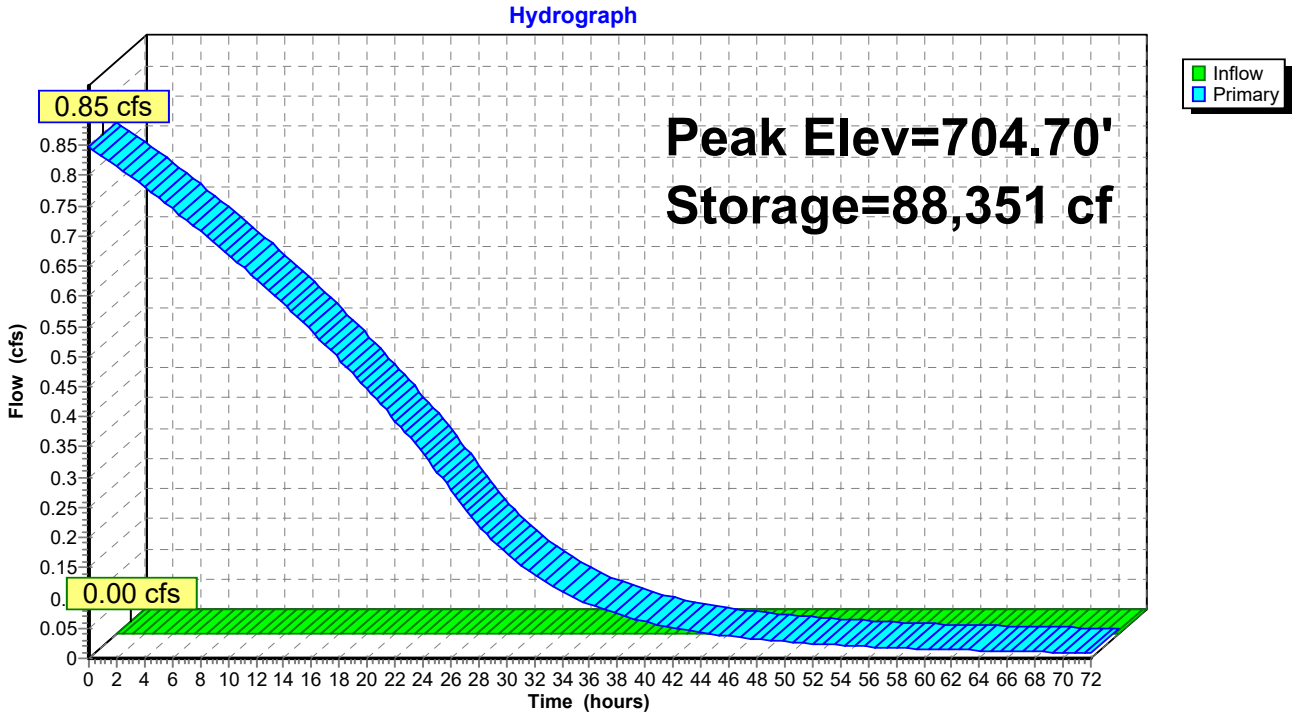
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

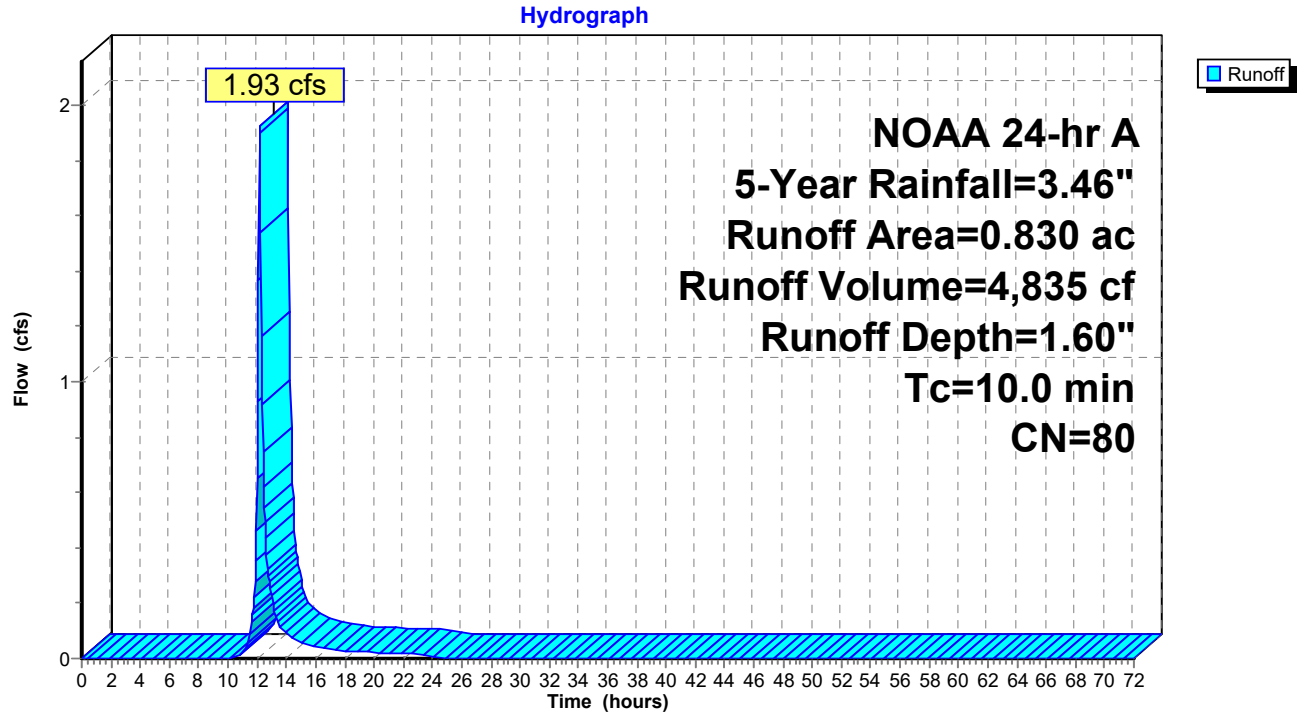
Runoff = 1.93 cfs @ 12.18 hrs, Volume= 4,835 cf, Depth= 1.60"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

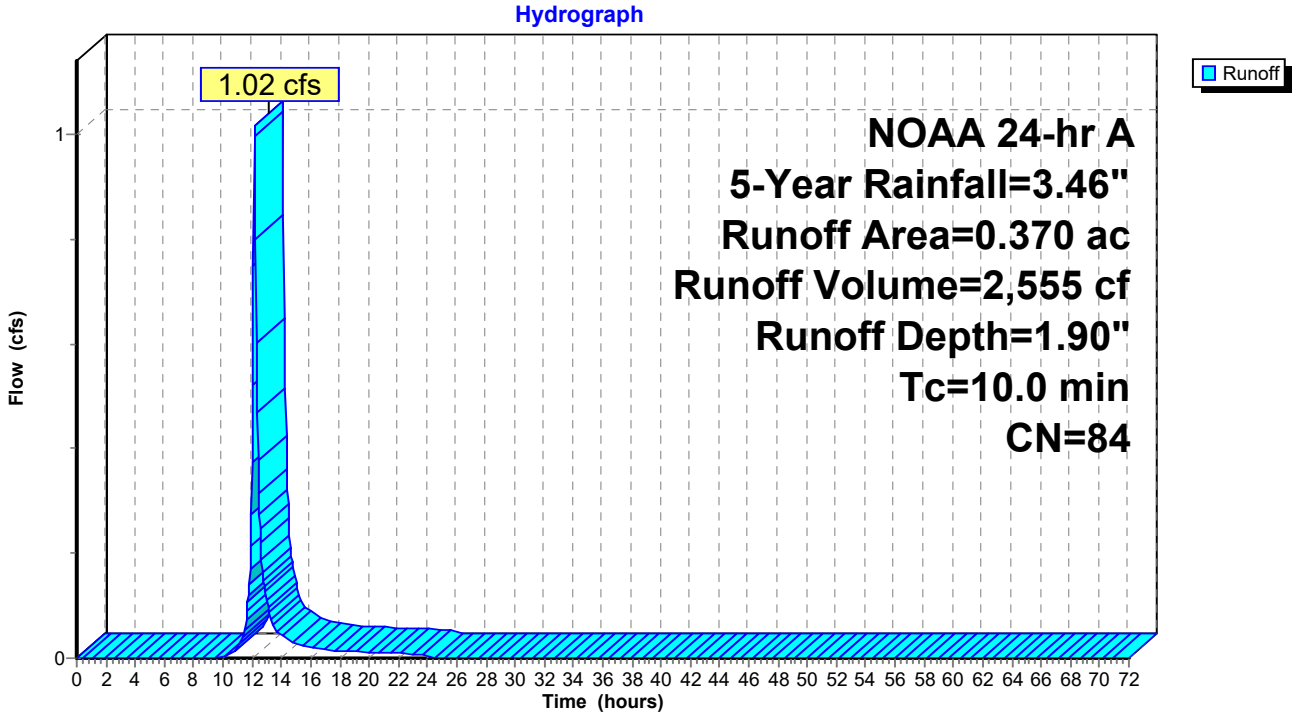
Runoff = 1.02 cfs @ 12.18 hrs, Volume= 2,555 cf, Depth= 1.90"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

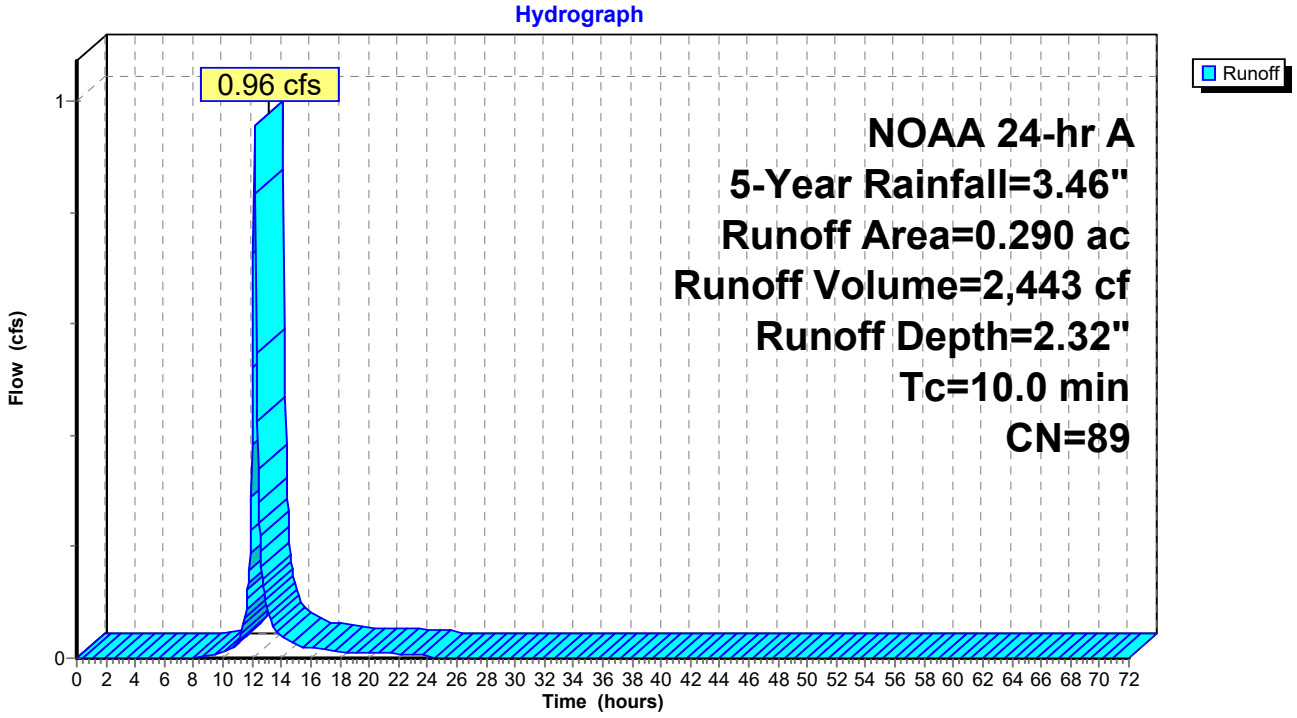
Runoff = 0.96 cfs @ 12.17 hrs, Volume= 2,443 cf, Depth= 2.32"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

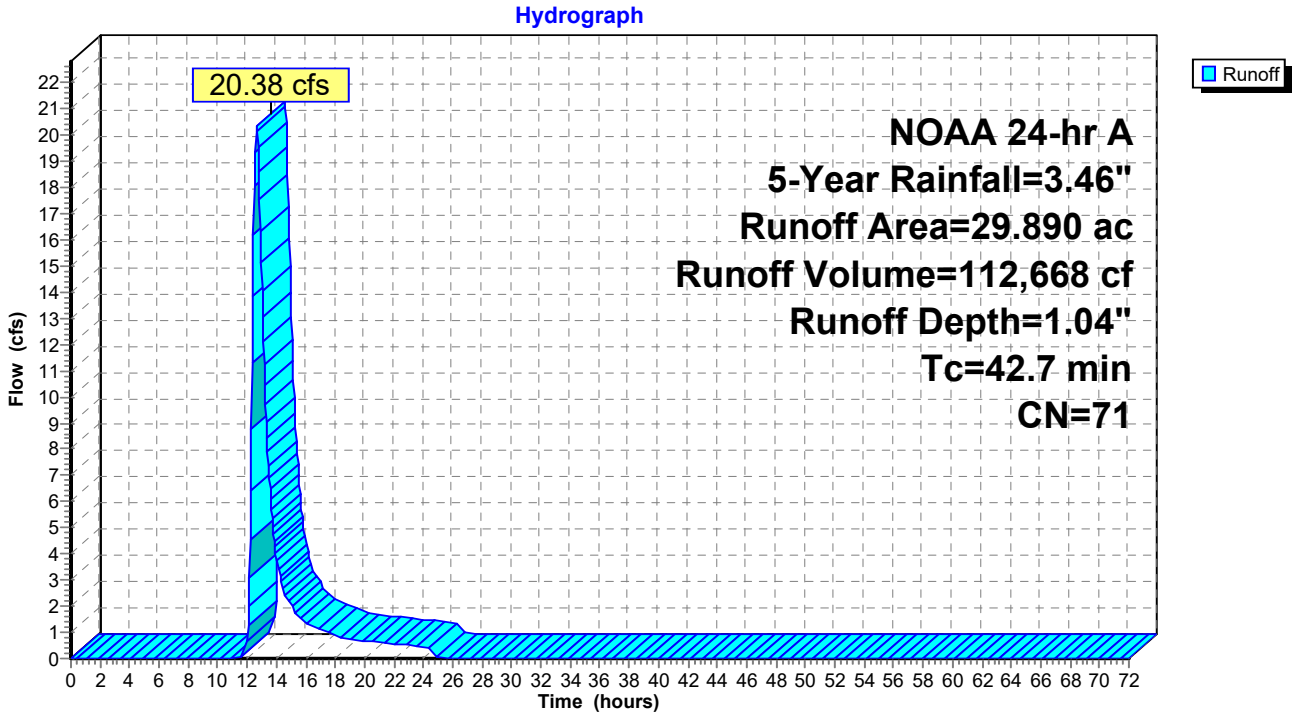
Runoff = 20.38 cfs @ 12.65 hrs, Volume= 112,668 cf, Depth= 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 5-Year Rainfall=3.46"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 1.98" for 5-Year event
Inflow = 7.74 cfs @ 12.18 hrs, Volume= 19,561 cf
Outflow = 3.31 cfs @ 12.37 hrs, Volume= 19,283 cf, Atten= 57%, Lag= 11.5 min
Primary = 3.31 cfs @ 12.37 hrs, Volume= 19,283 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.09' @ 12.37 hrs Surf.Area= 9,170 sf Storage= 7,008 cf

Plug-Flow detention time= 165.4 min calculated for 19,270 cf (99% of inflow)
Center-of-Mass det. time= 158.6 min (964.5 - 805.9)

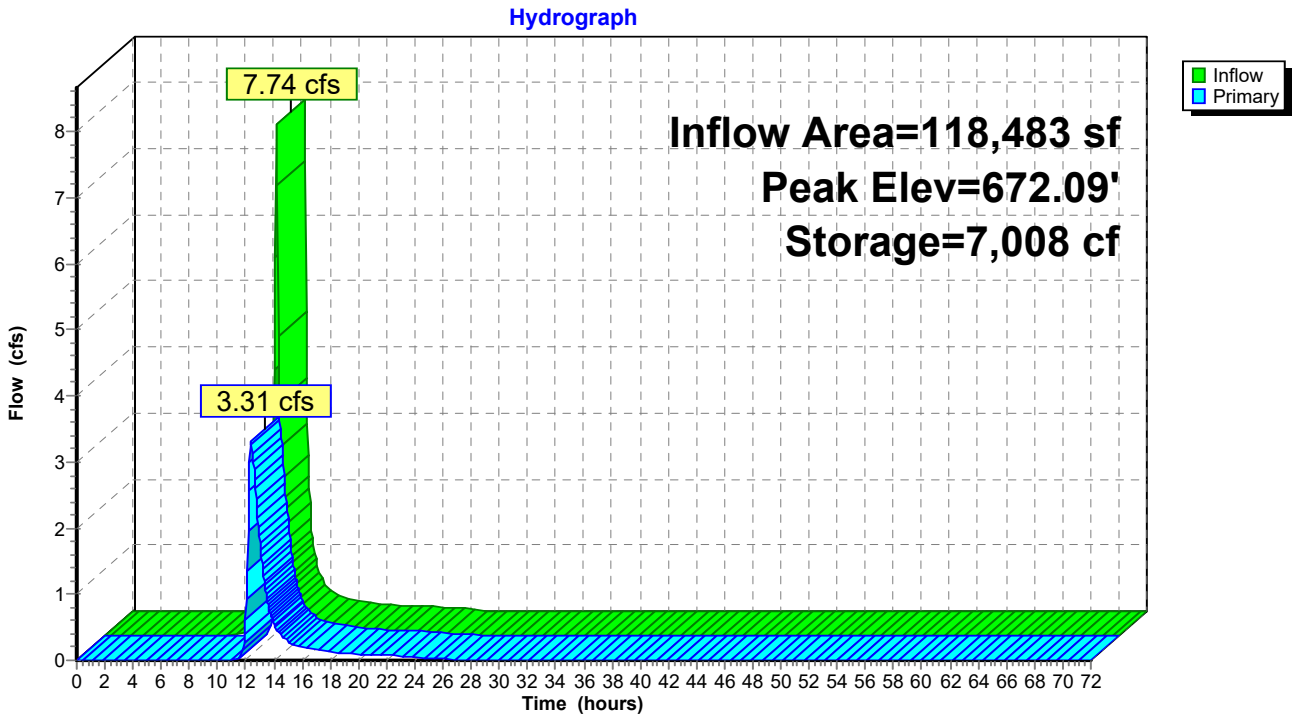
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.30 cfs @ 12.37 hrs HW=672.08' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 3.30 cfs of 15.76 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 6.92 fps)
  └─**3=Orifice/Grate** (Orifice Controls 3.29 cfs @ 3.31 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 2.21" for 5-Year event
Inflow = 71.45 cfs @ 12.43 hrs, Volume= 304,807 cf
Outflow = 6.13 cfs @ 13.97 hrs, Volume= 282,177 cf, Atten= 91%, Lag= 92.2 min
Primary = 6.13 cfs @ 13.97 hrs, Volume= 282,177 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 706.11' @ 13.97 hrs Surf.Area= 97,922 sf Storage= 205,957 cf

Plug-Flow detention time= 895.1 min calculated for 281,981 cf (93% of inflow)
Center-of-Mass det. time= 860.1 min (1,678.5 - 818.4)

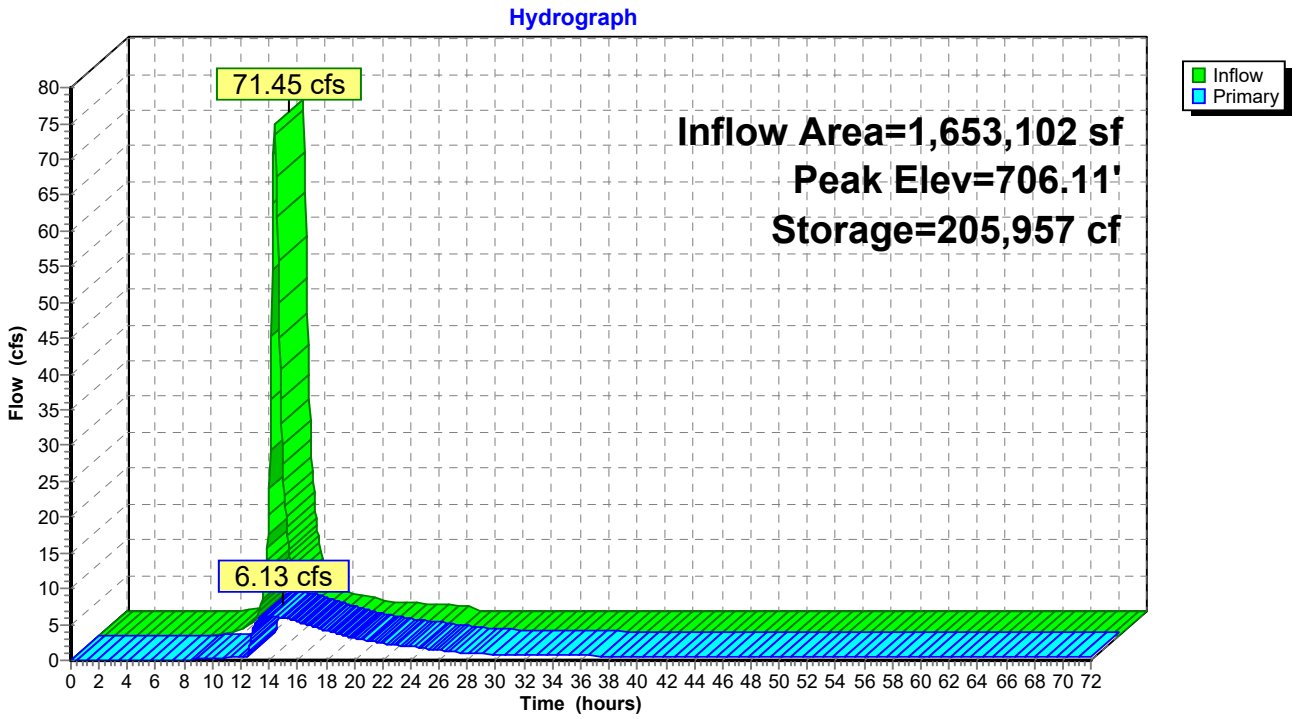
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.13 cfs @ 13.97 hrs HW=706.11' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 6.13 cfs of 46.42 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.72 cfs @ 10.73 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 5.41 cfs @ 3.89 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

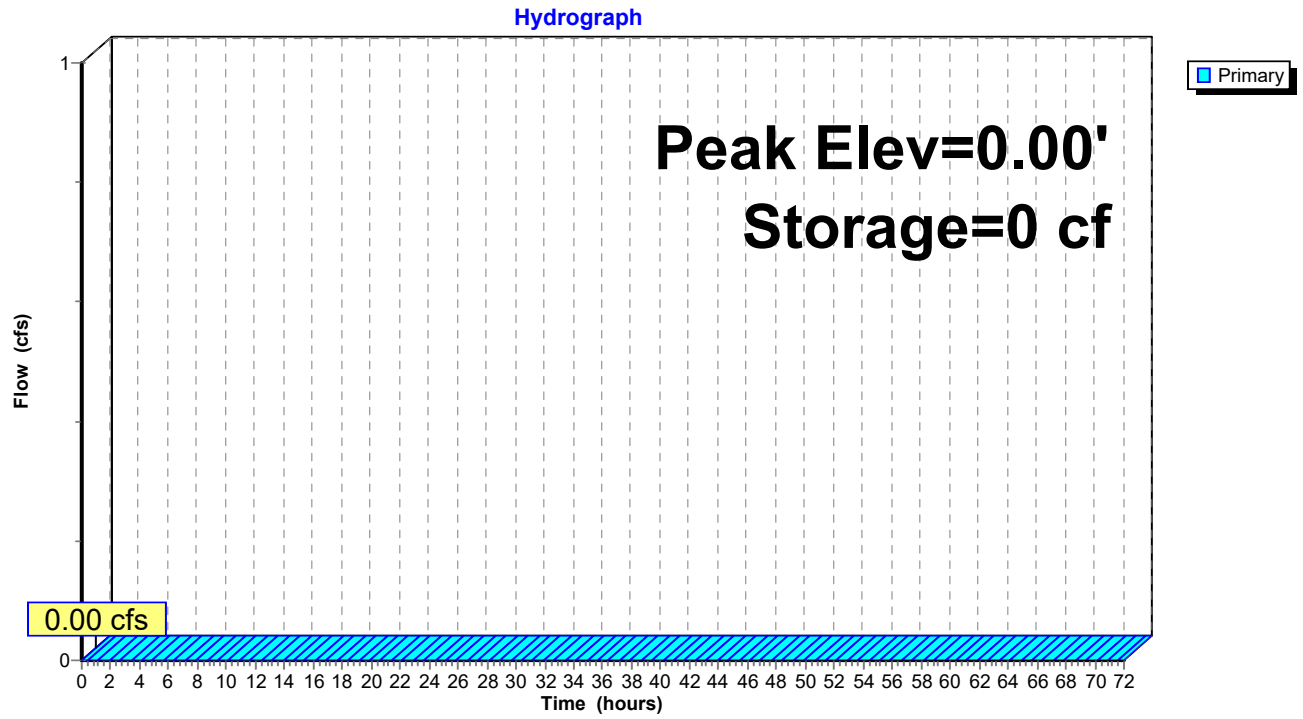
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

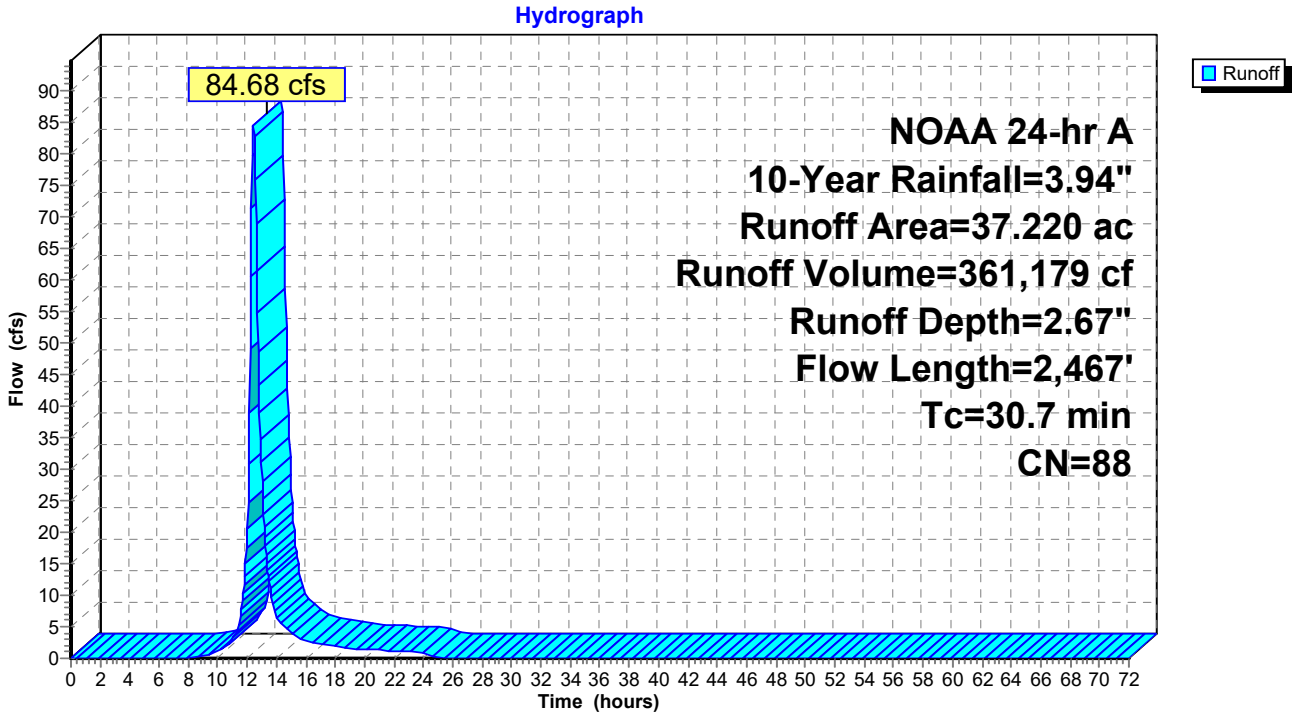
Runoff = 84.68 cfs @ 12.43 hrs, Volume= 361,179 cf, Depth= 2.67"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



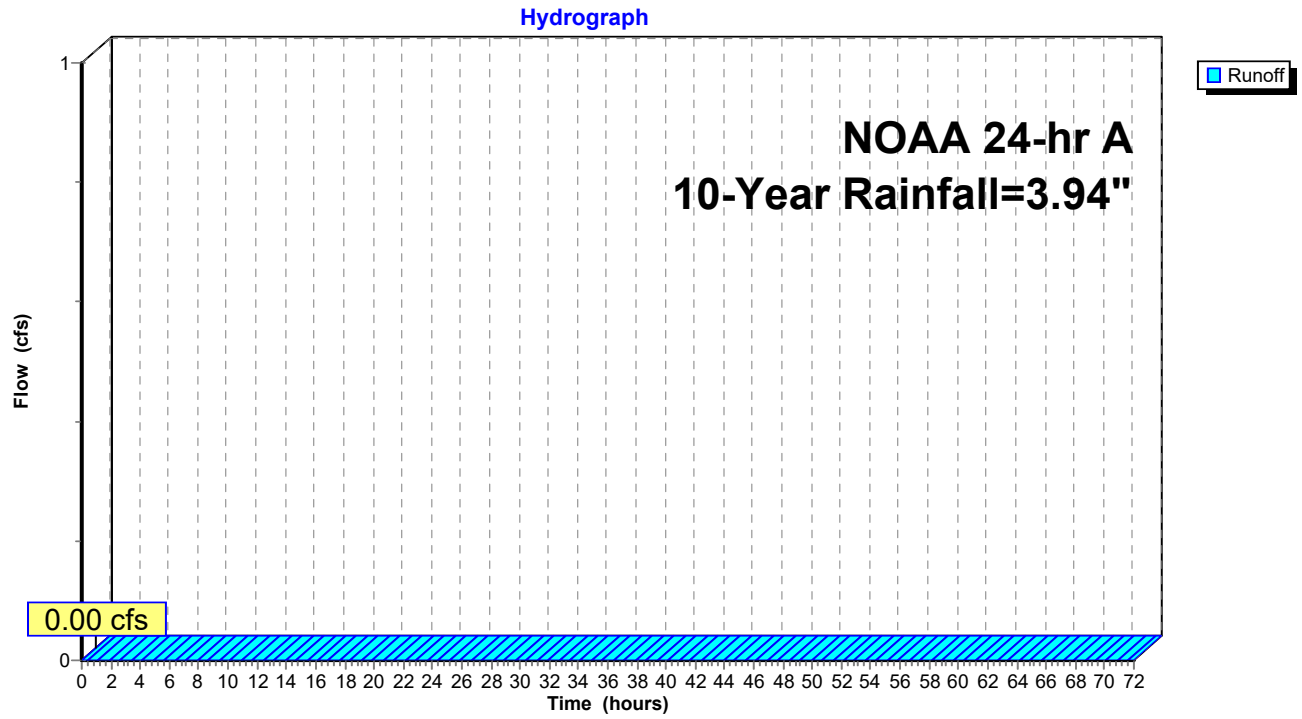
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

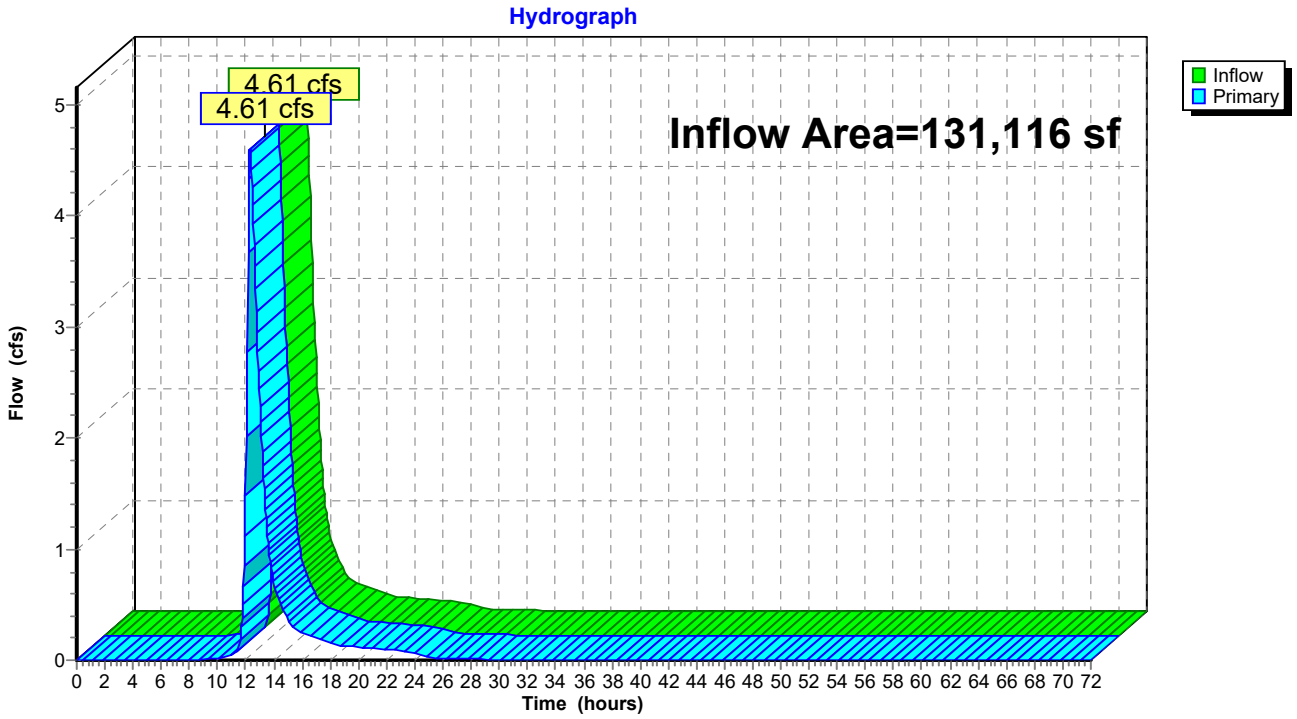


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 2.41" for 10-Year event
Inflow = 4.61 cfs @ 12.29 hrs, Volume= 26,346 cf
Primary = 4.61 cfs @ 12.29 hrs, Volume= 26,346 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

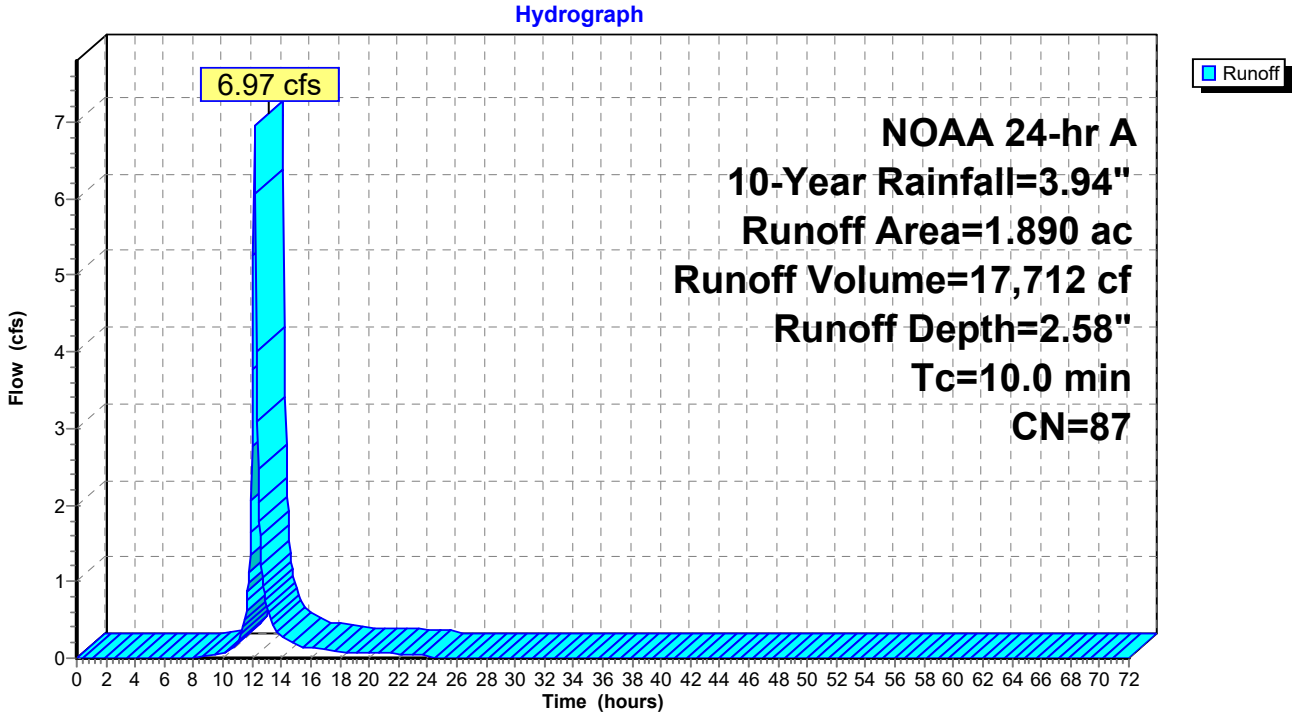
Runoff = 6.97 cfs @ 12.17 hrs, Volume= 17,712 cf, Depth= 2.58"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

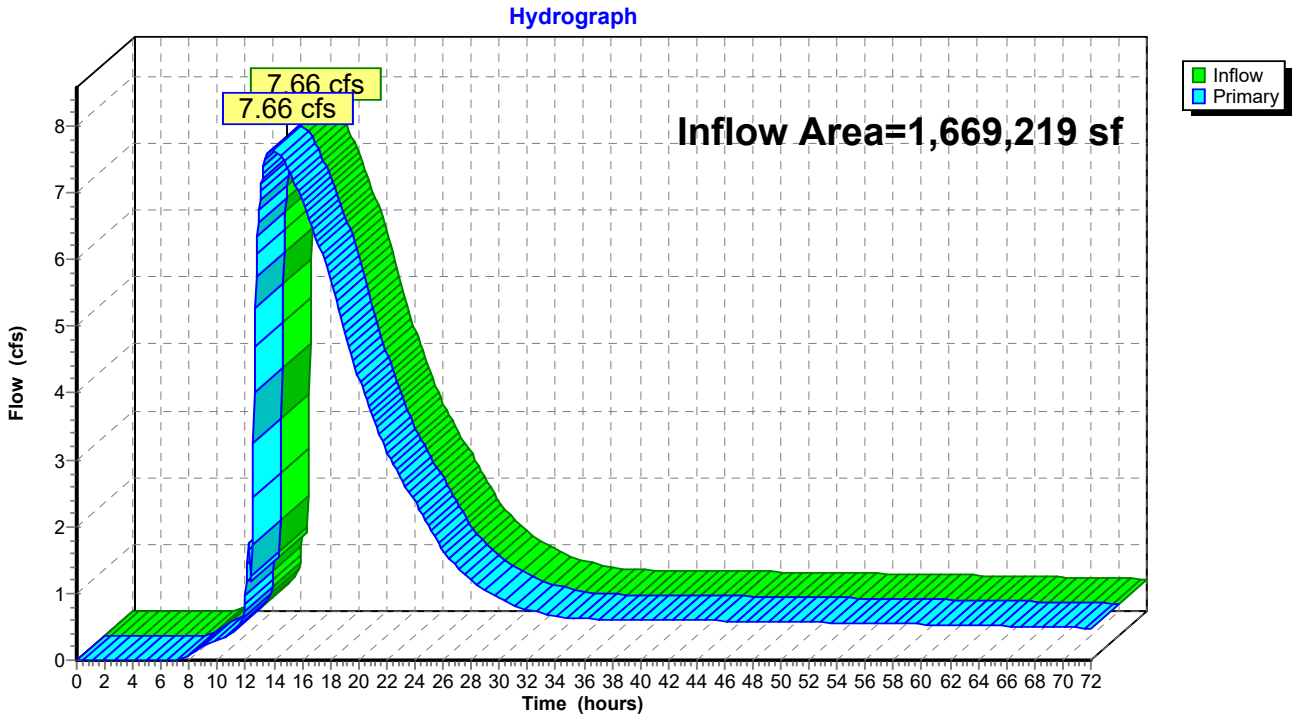


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 2.47" for 10-Year event
Inflow = 7.66 cfs @ 13.88 hrs, Volume= 343,894 cf
Primary = 7.66 cfs @ 13.88 hrs, Volume= 343,894 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

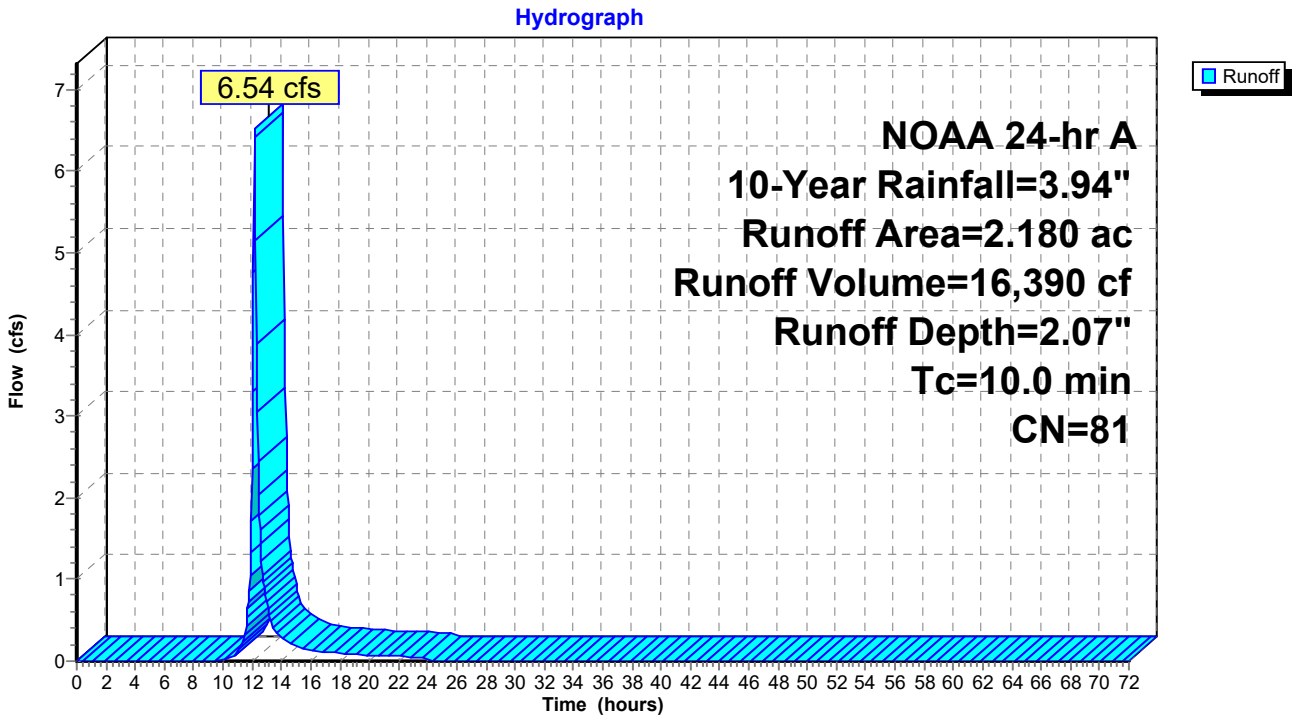
Runoff = 6.54 cfs @ 12.18 hrs, Volume= 16,390 cf, Depth= 2.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.56 cfs @	0.00 hrs, Volume=	94,219 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

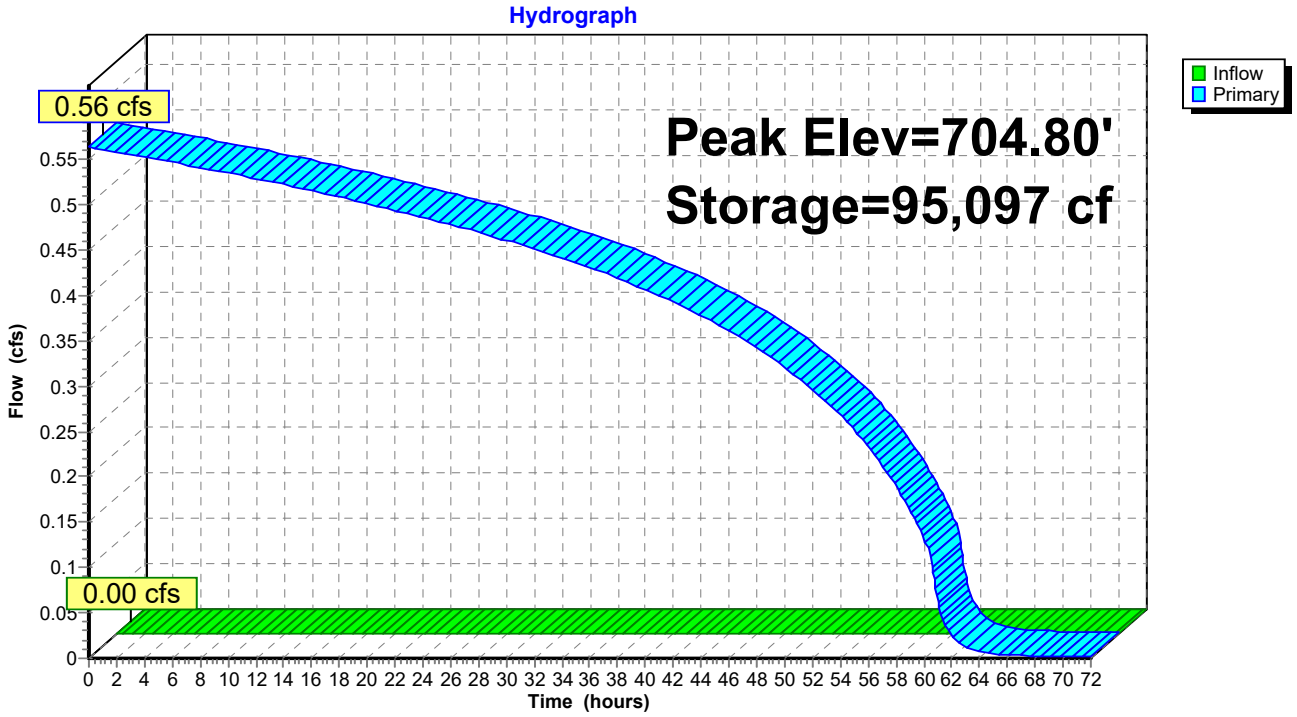
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

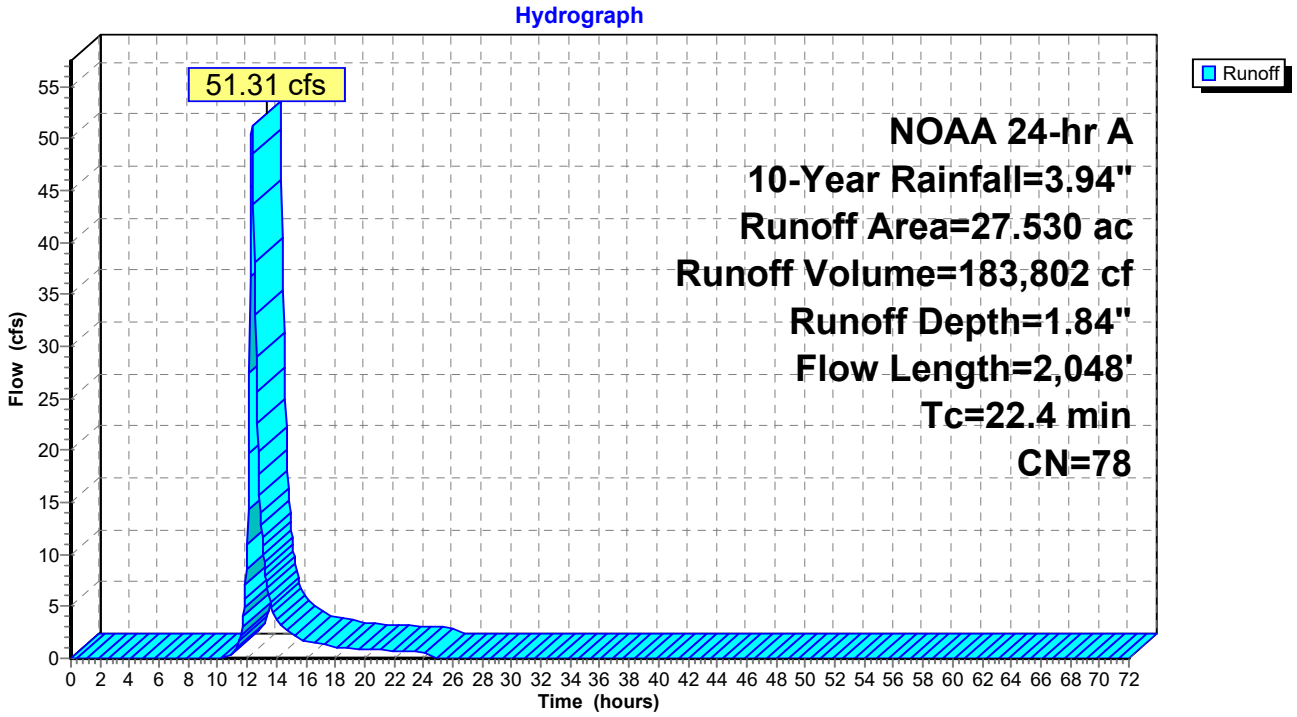
Runoff = 51.31 cfs @ 12.34 hrs, Volume= 183,802 cf, Depth= 1.84"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

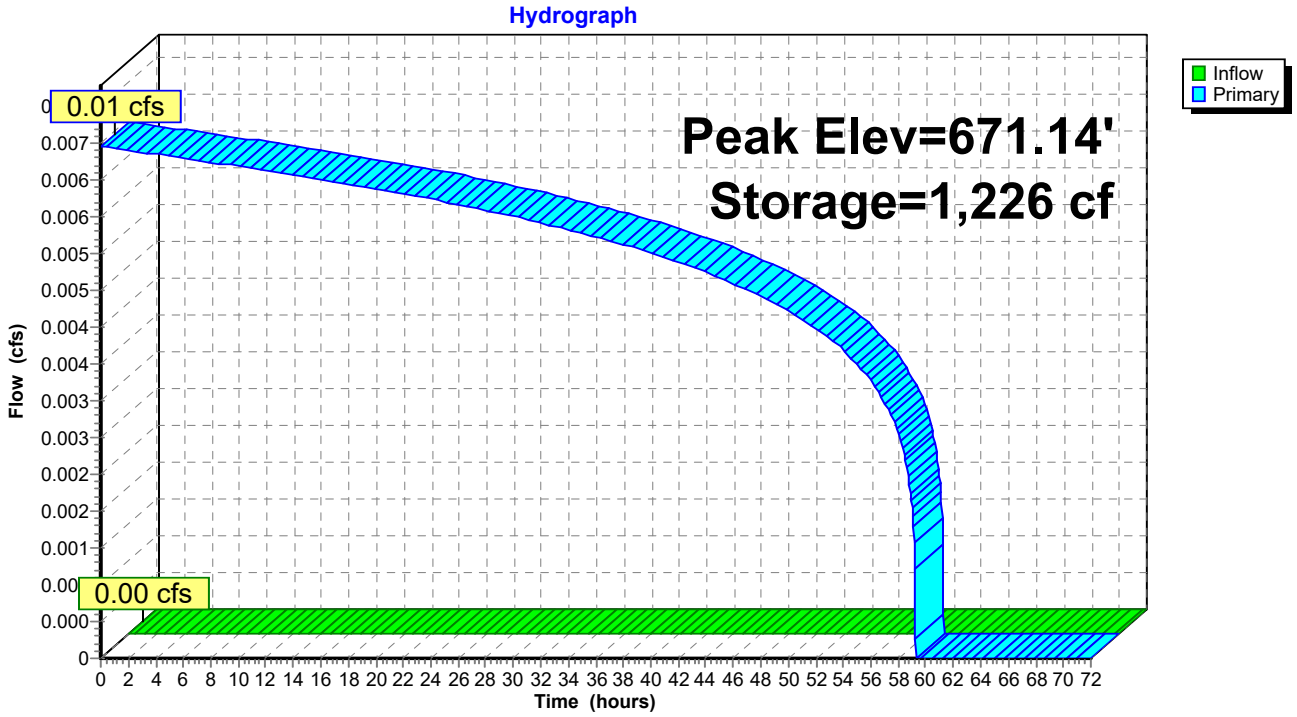
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

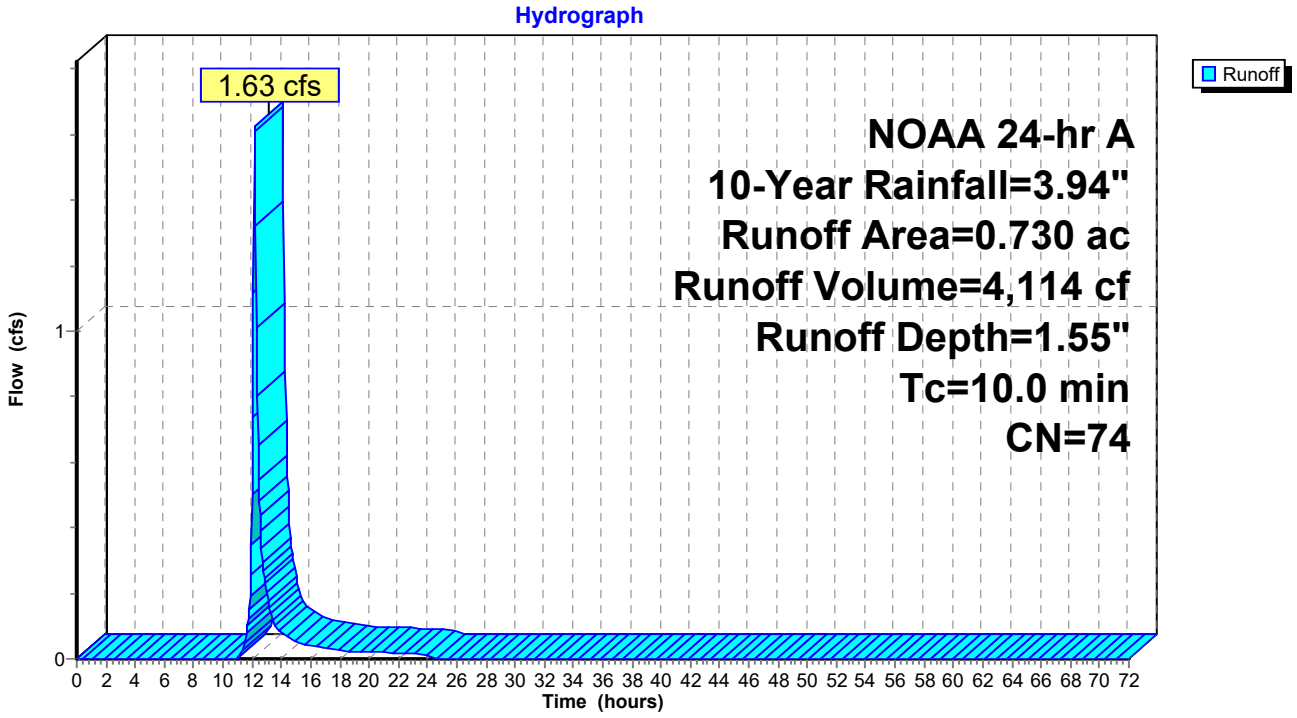
Runoff = 1.63 cfs @ 12.18 hrs, Volume= 4,114 cf, Depth= 1.55"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

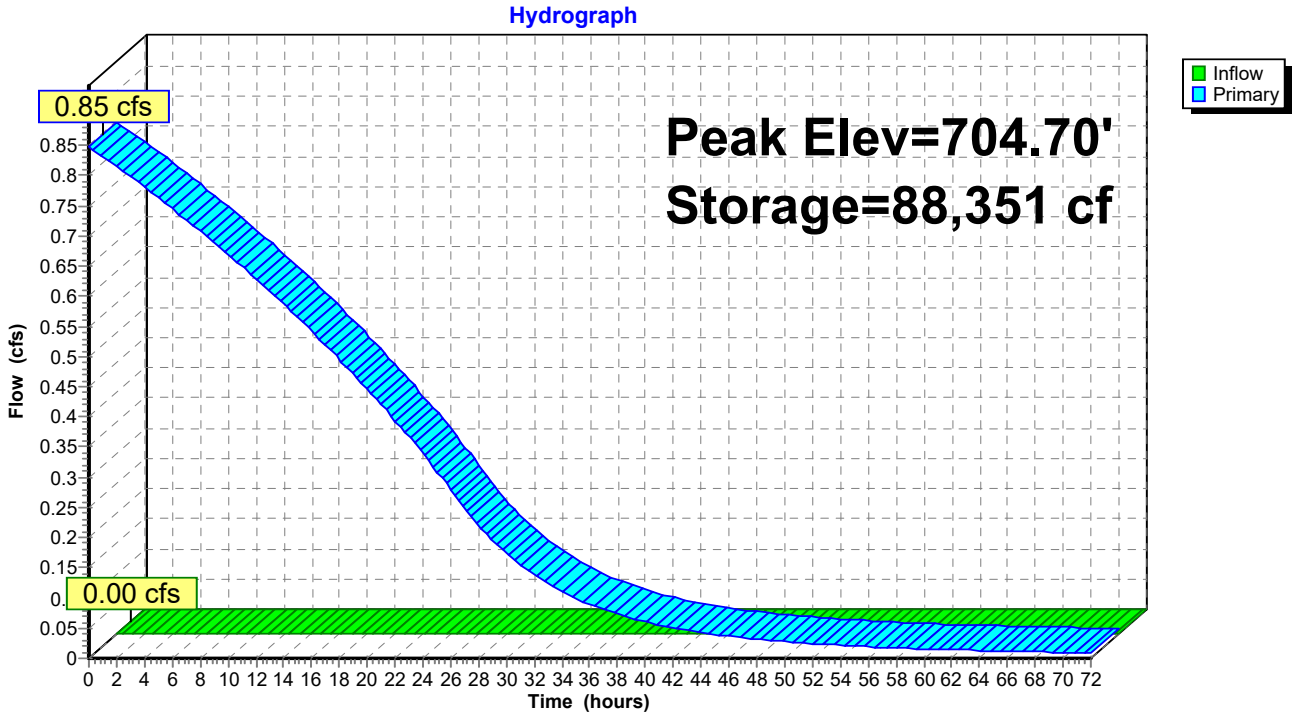
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

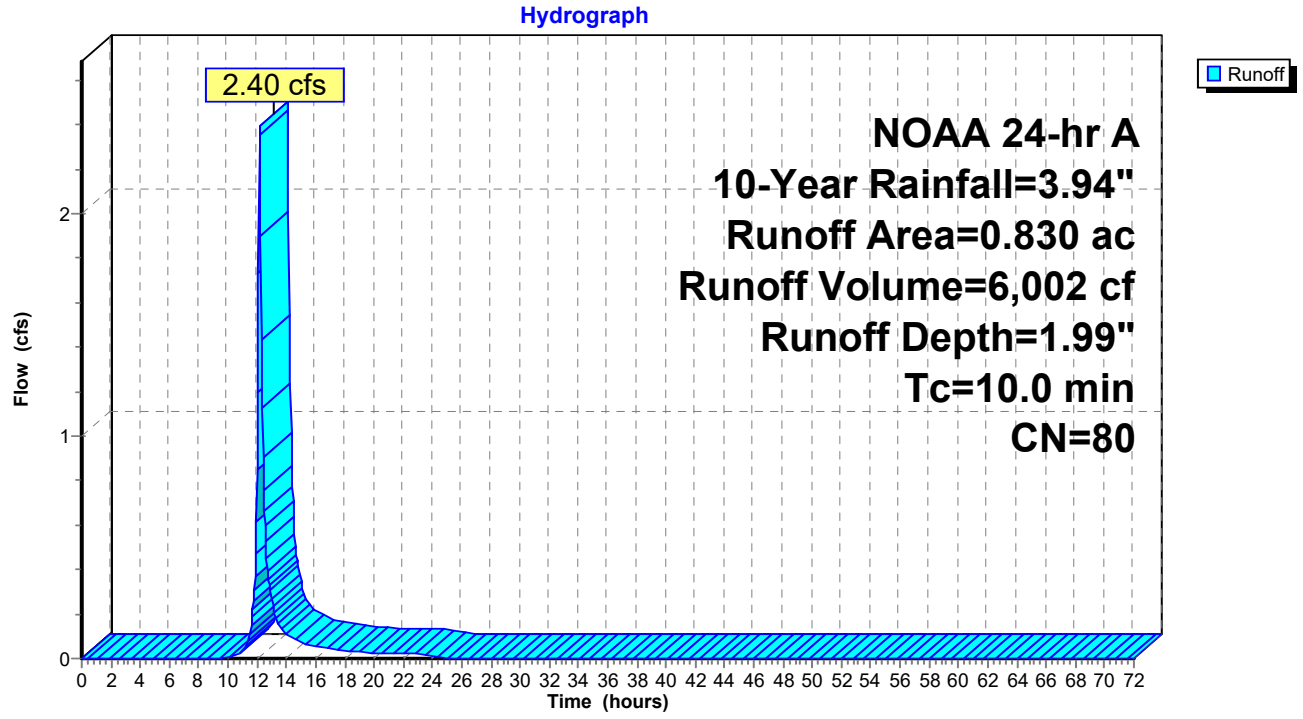
Runoff = 2.40 cfs @ 12.18 hrs, Volume= 6,002 cf, Depth= 1.99"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

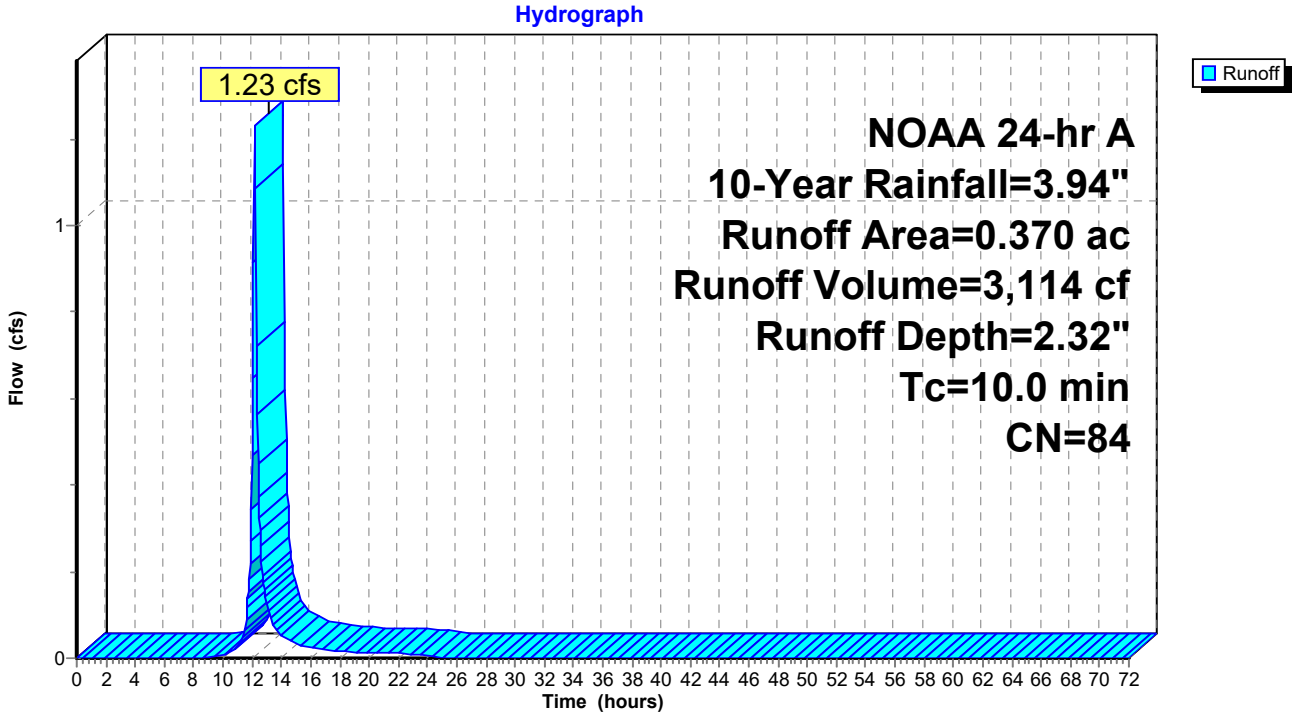
Runoff = 1.23 cfs @ 12.18 hrs, Volume= 3,114 cf, Depth= 2.32"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

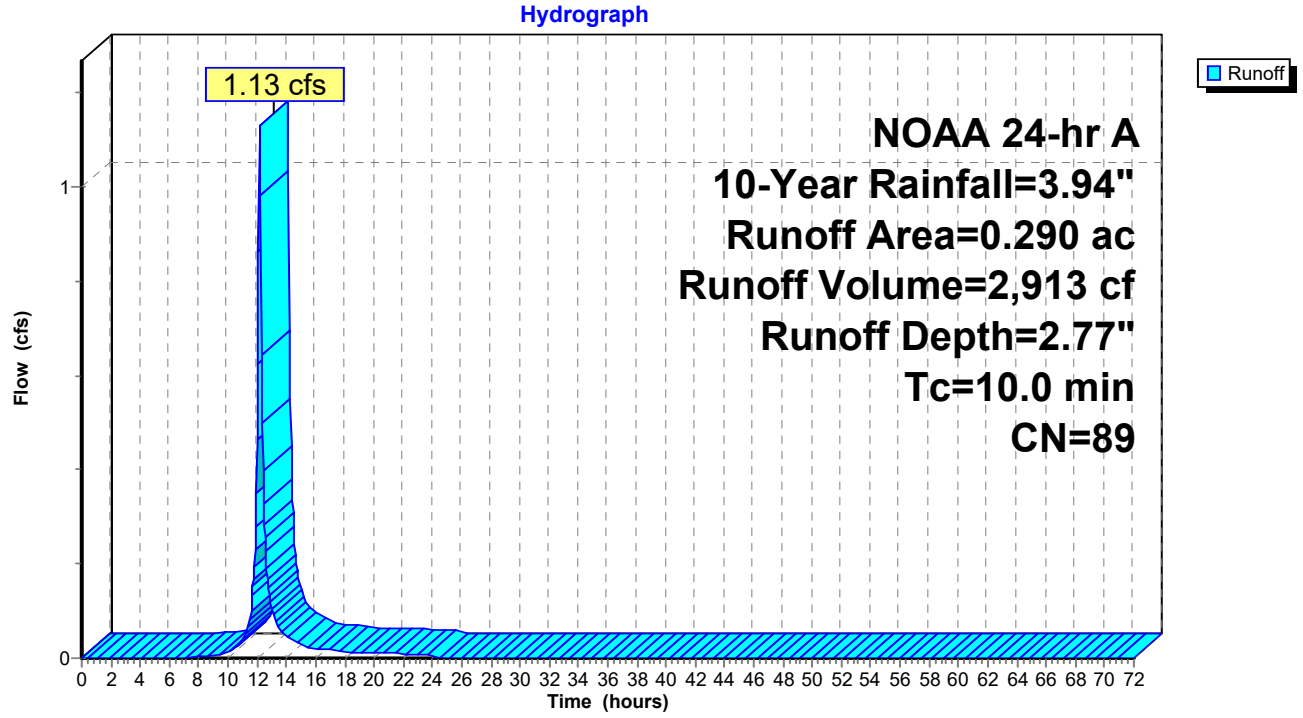
Runoff = 1.13 cfs @ 12.17 hrs, Volume= 2,913 cf, Depth= 2.77"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

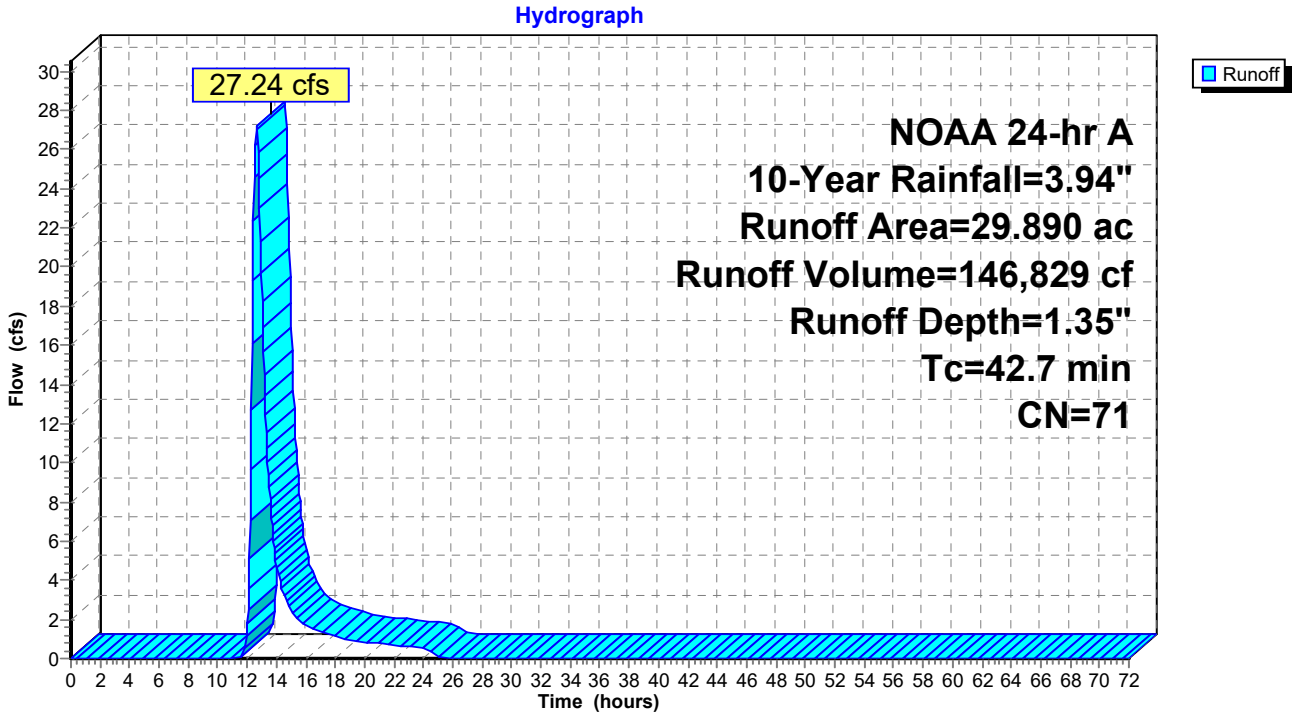
Runoff = 27.24 cfs @ 12.64 hrs, Volume= 146,829 cf, Depth= 1.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 10-Year Rainfall=3.94"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 2.40" for 10-Year event
Inflow = 9.34 cfs @ 12.18 hrs, Volume= 23,714 cf
Outflow = 4.04 cfs @ 12.36 hrs, Volume= 23,434 cf, Atten= 57%, Lag= 11.3 min
Primary = 4.04 cfs @ 12.36 hrs, Volume= 23,434 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.23' @ 12.36 hrs Surf.Area= 9,532 sf Storage= 8,331 cf

Plug-Flow detention time= 144.3 min calculated for 23,434 cf (99% of inflow)
Center-of-Mass det. time= 137.0 min (939.0 - 802.0)

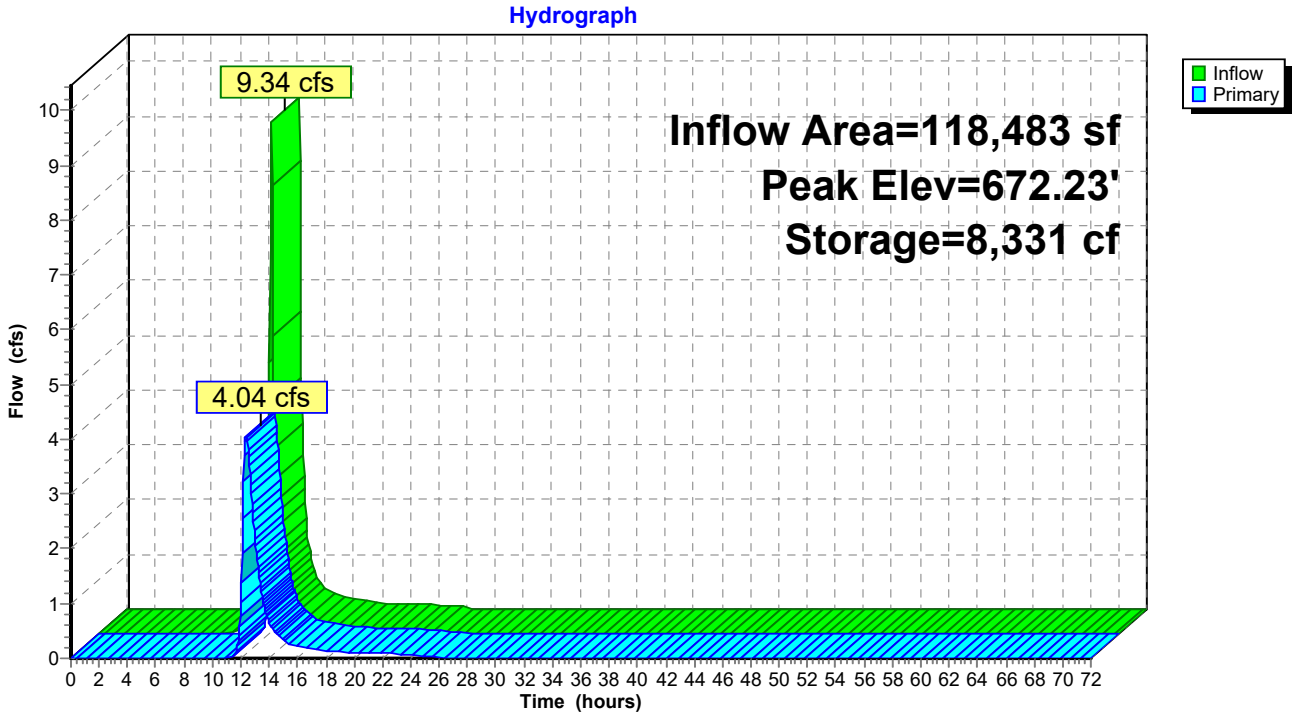
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.03 cfs @ 12.36 hrs HW=672.23' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 4.03 cfs of 16.75 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.15 fps)
  └─**3=Orifice/Grate** (Orifice Controls 4.02 cfs @ 3.55 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 2.65" for 10-Year event
Inflow = 85.27 cfs @ 12.43 hrs, Volume= 365,293 cf
Outflow = 7.60 cfs @ 13.90 hrs, Volume= 340,780 cf, Atten= 91%, Lag= 88.3 min
Primary = 7.60 cfs @ 13.90 hrs, Volume= 340,780 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 706.51' @ 13.90 hrs Surf.Area= 100,072 sf Storage= 245,528 cf

Plug-Flow detention time= 801.0 min calculated for 340,780 cf (93% of inflow)
Center-of-Mass det. time= 767.1 min (1,581.8 - 814.7)

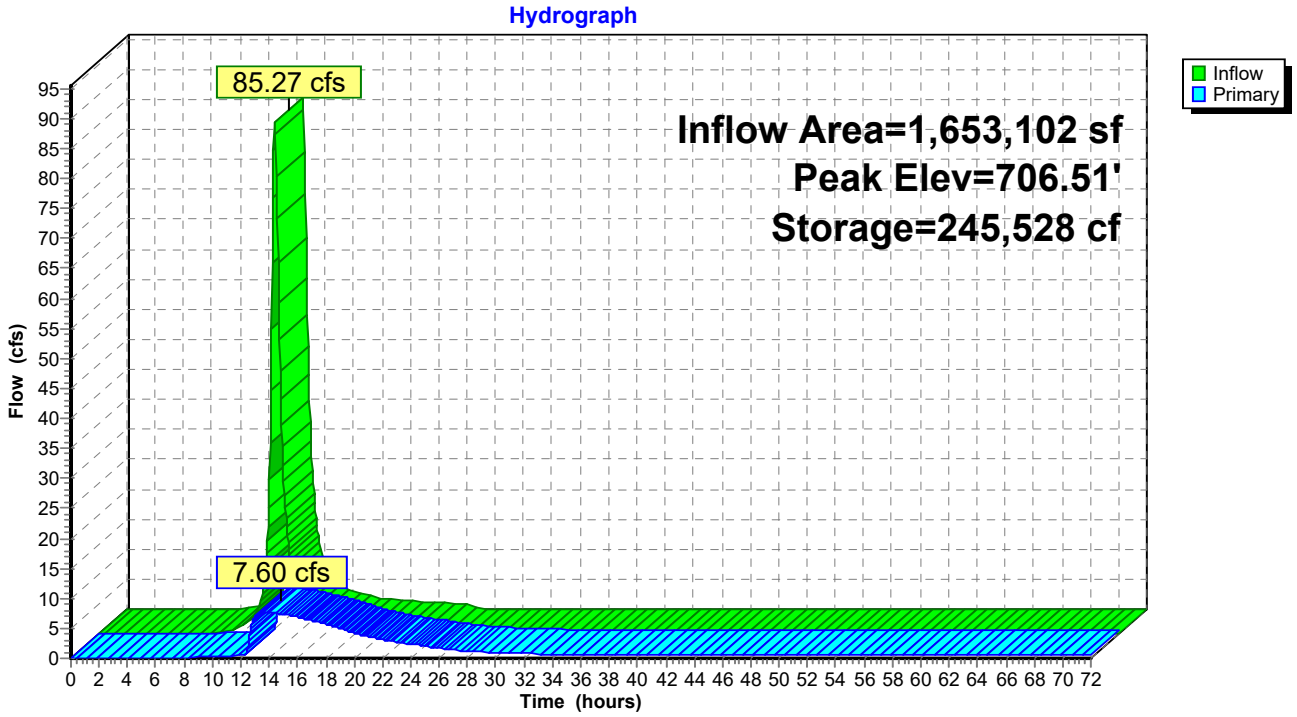
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=7.60 cfs @ 13.90 hrs HW=706.51' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 7.60 cfs of 48.77 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.74 cfs @ 11.15 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 6.86 cfs @ 4.91 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

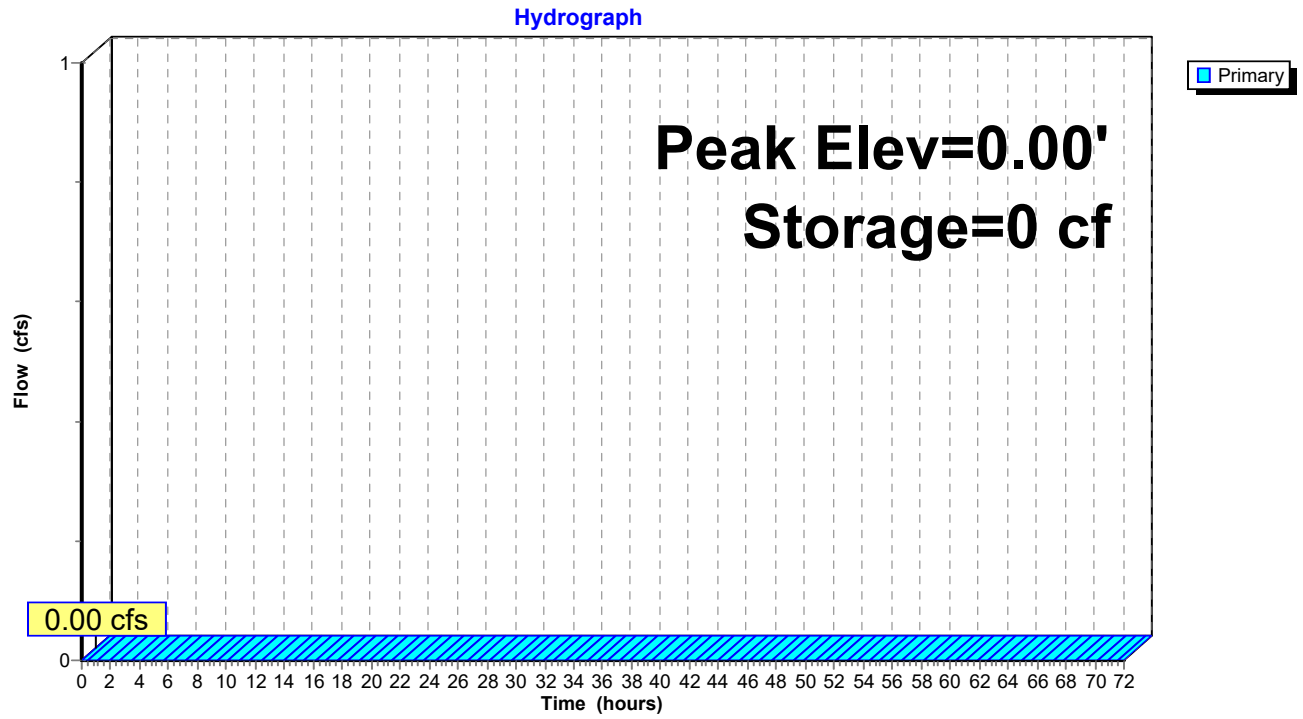
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

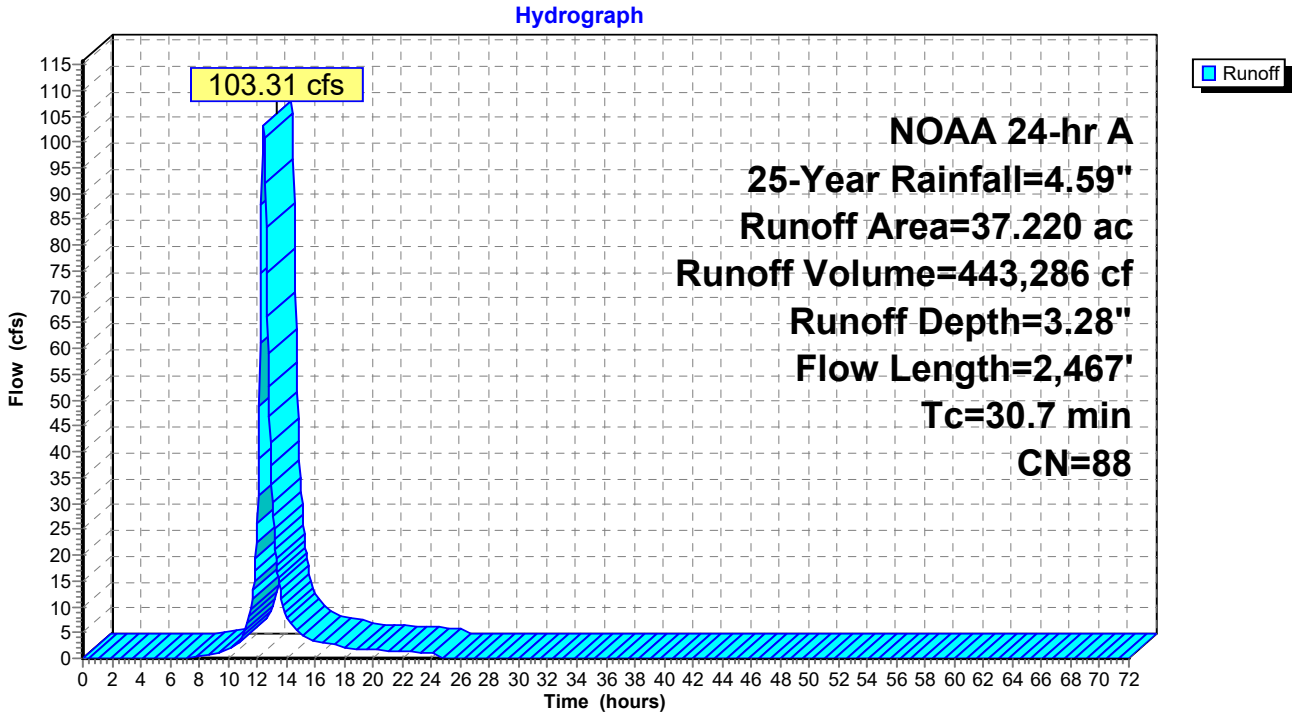
Runoff = 103.31 cfs @ 12.43 hrs, Volume= 443,286 cf, Depth= 3.28"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



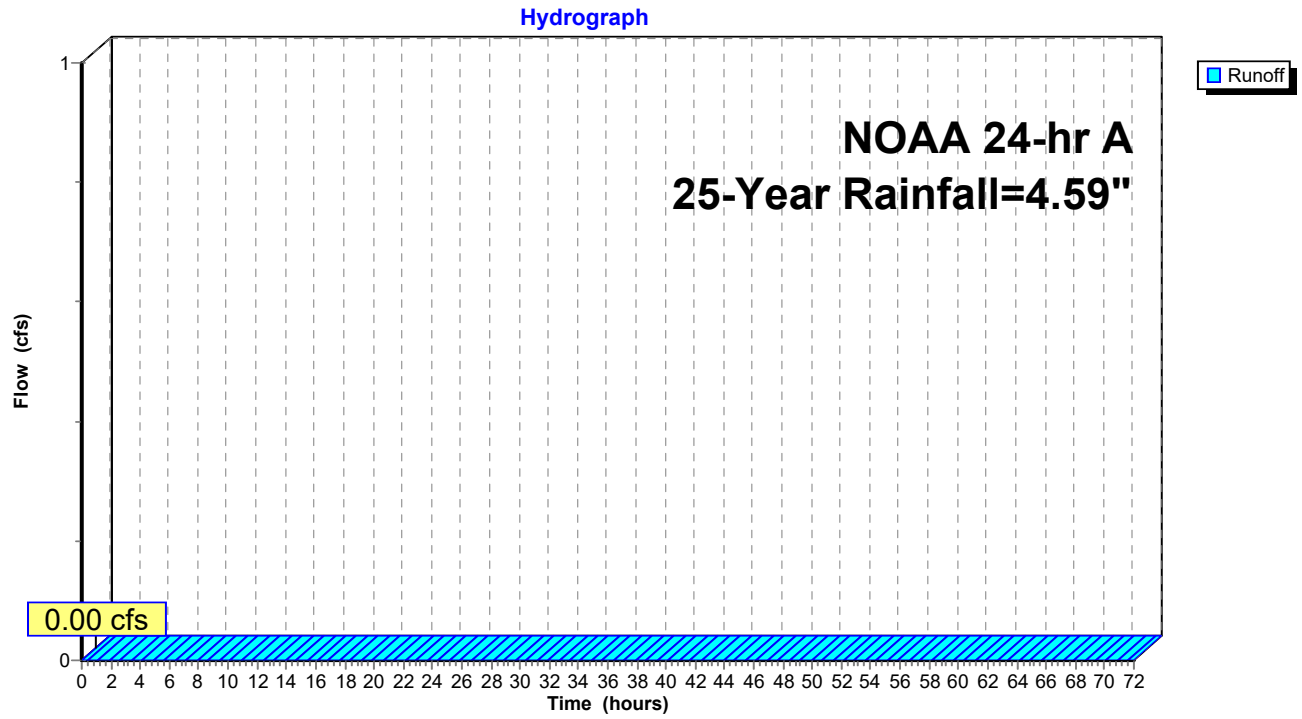
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

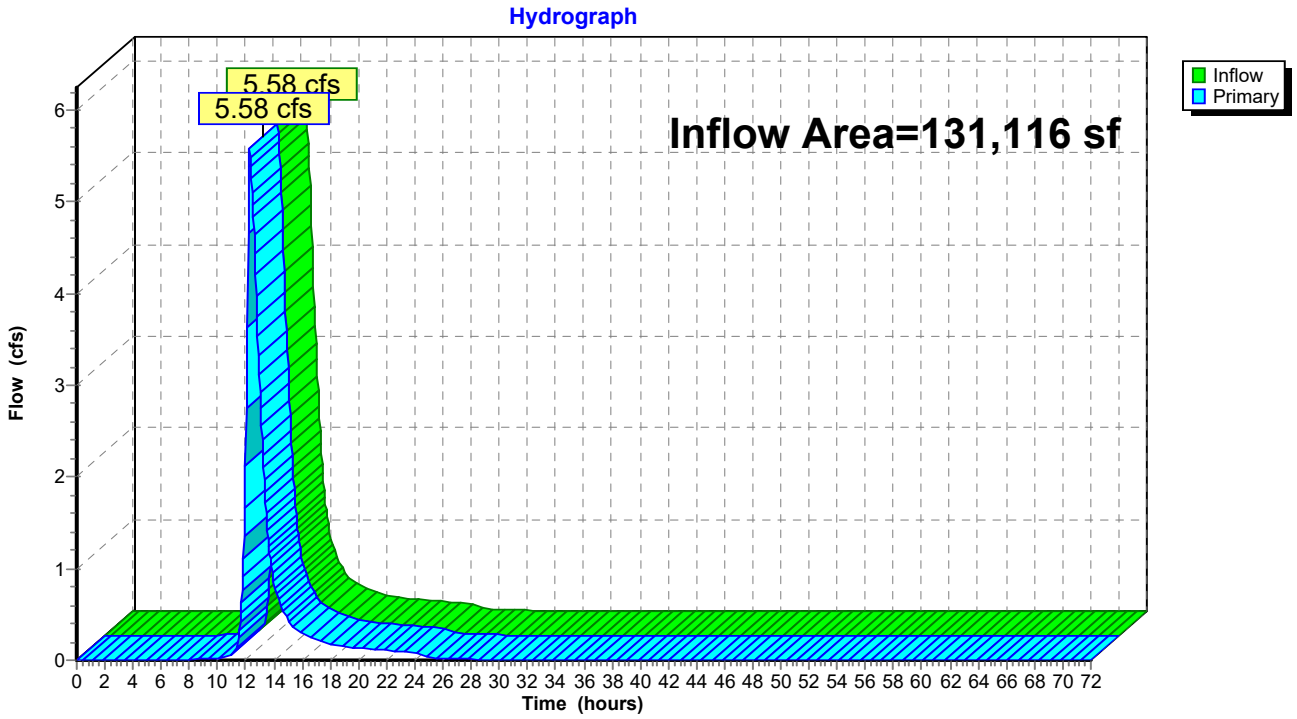


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.00" for 25-Year event
Inflow = 5.58 cfs @ 12.26 hrs, Volume= 32,759 cf
Primary = 5.58 cfs @ 12.26 hrs, Volume= 32,759 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

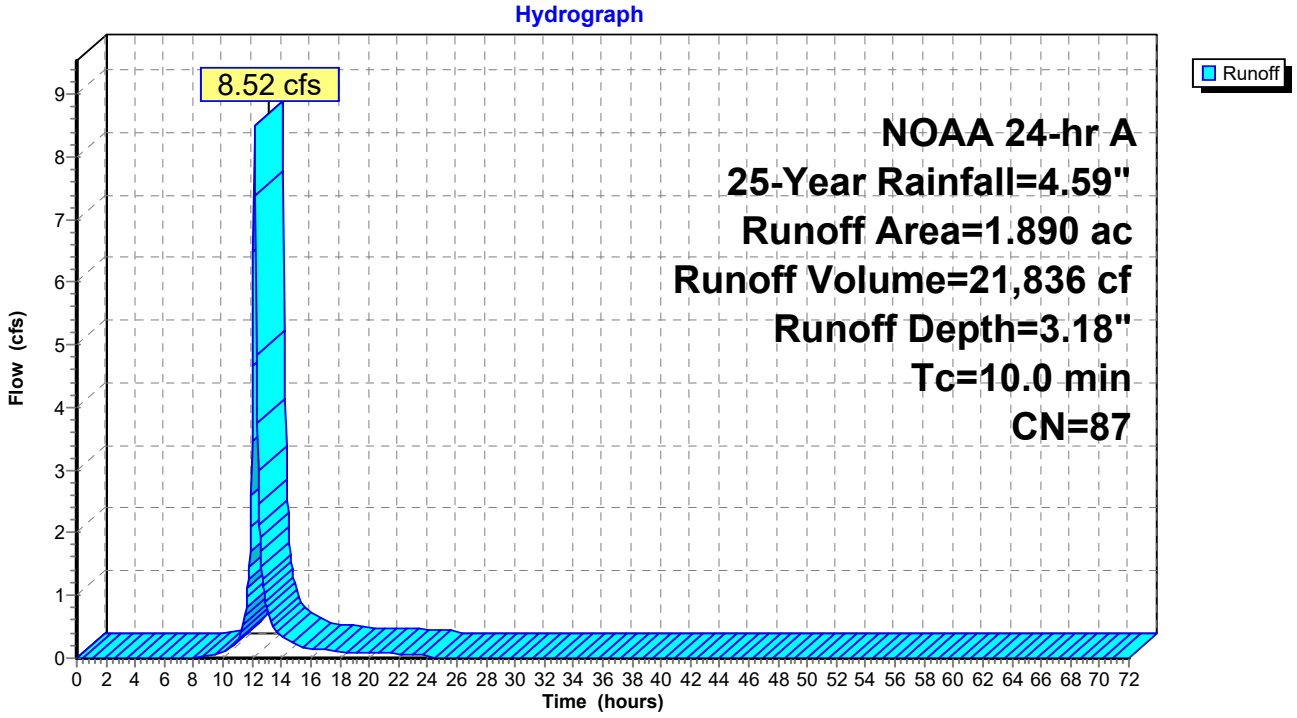
Runoff = 8.52 cfs @ 12.17 hrs, Volume= 21,836 cf, Depth= 3.18"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

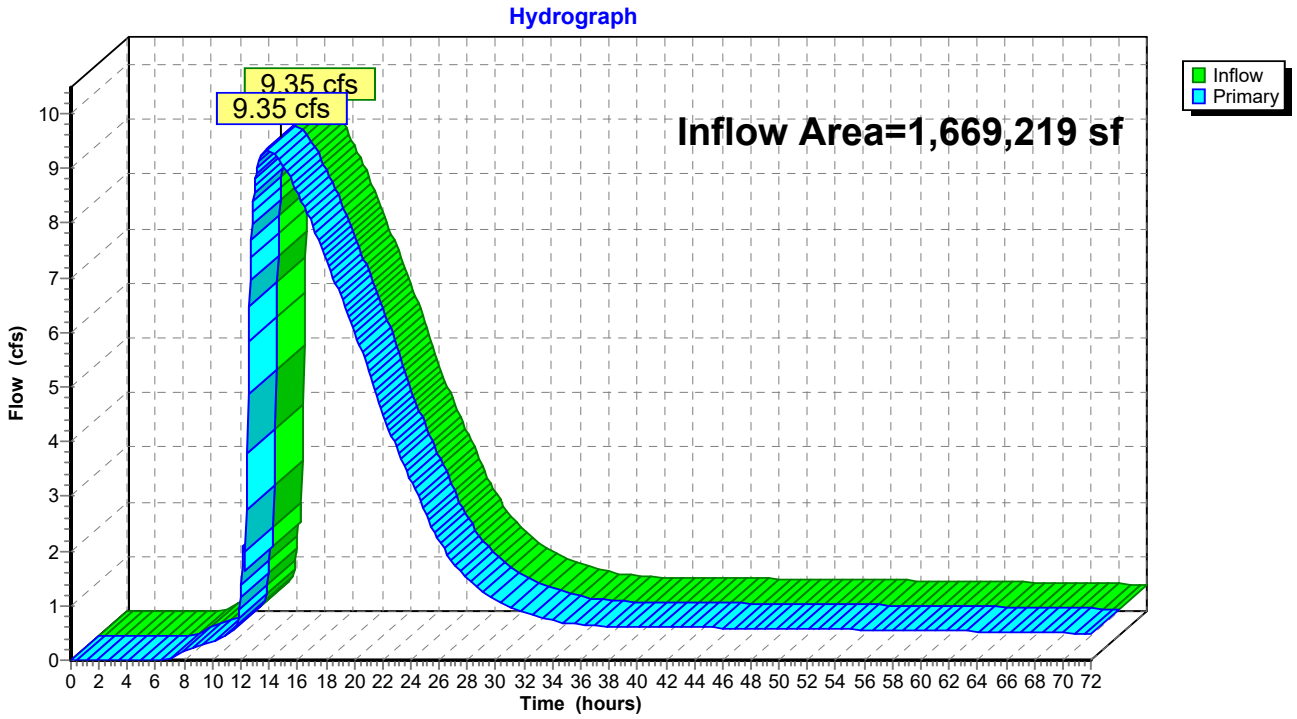


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 3.06" for 25-Year event
Inflow = 9.35 cfs @ 13.85 hrs, Volume= 425,603 cf
Primary = 9.35 cfs @ 13.85 hrs, Volume= 425,603 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

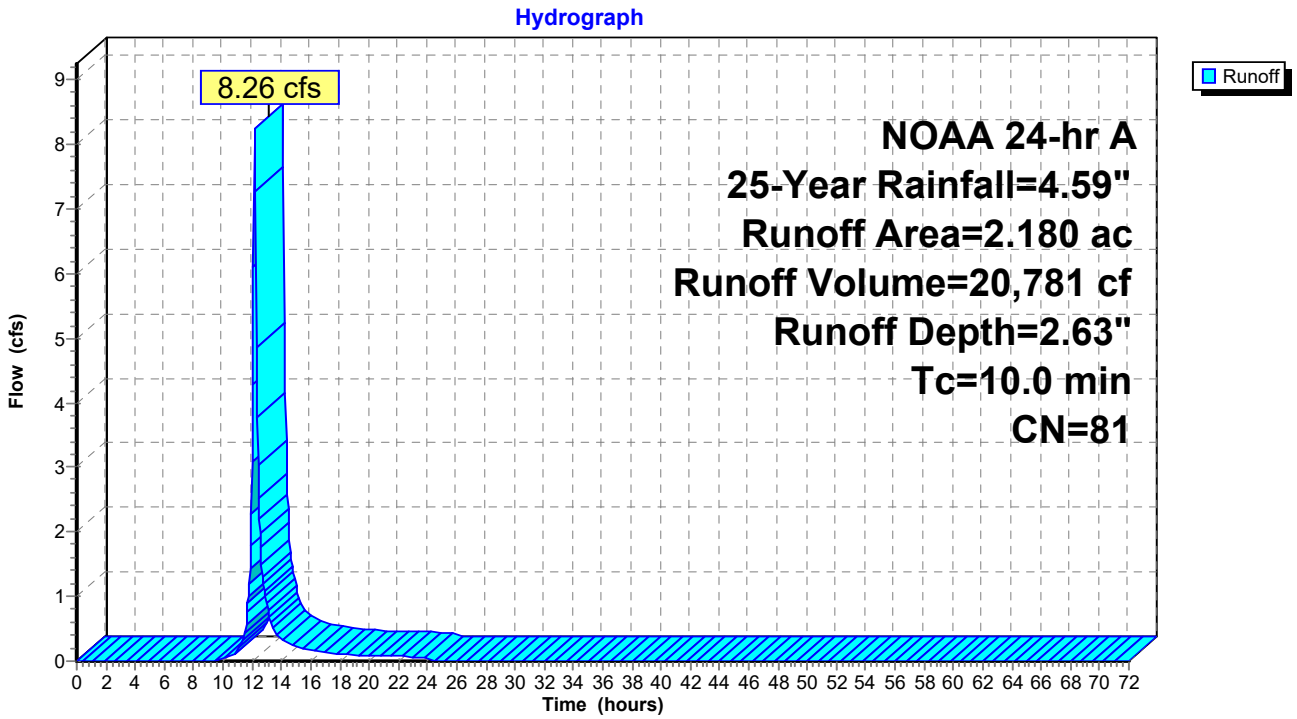
Runoff = 8.26 cfs @ 12.18 hrs, Volume= 20,781 cf, Depth= 2.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

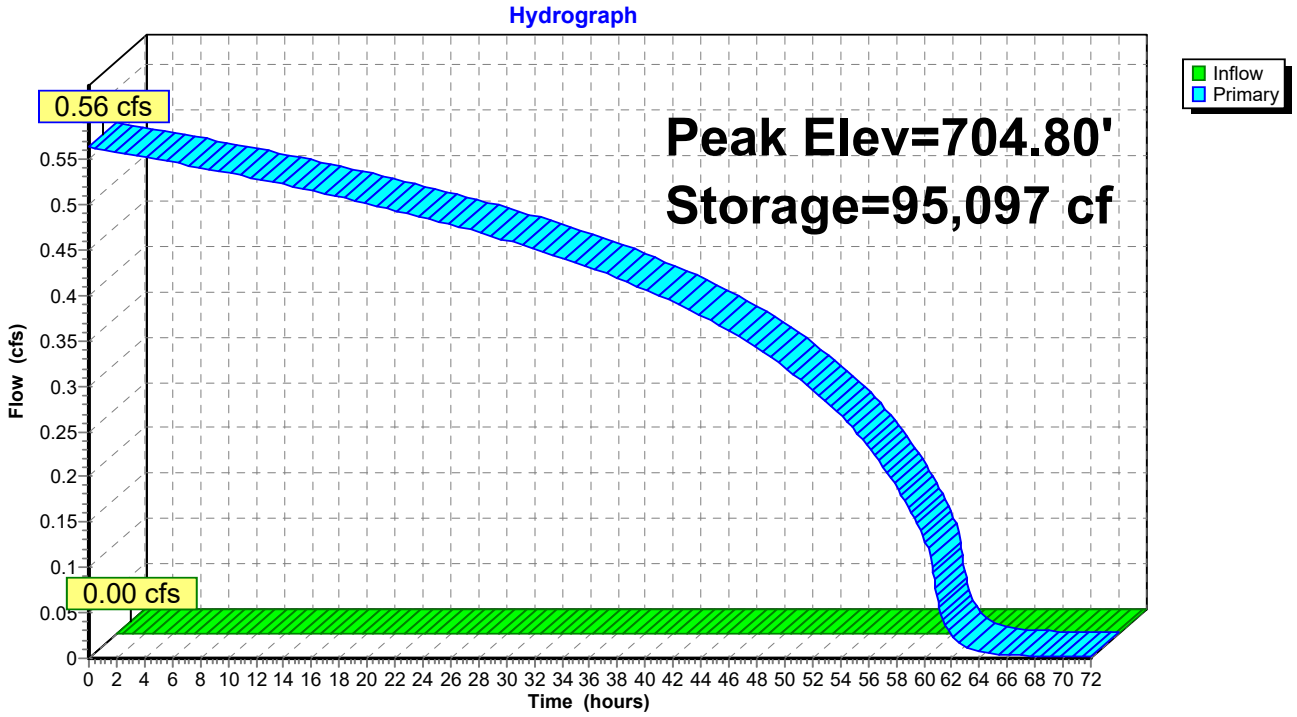
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

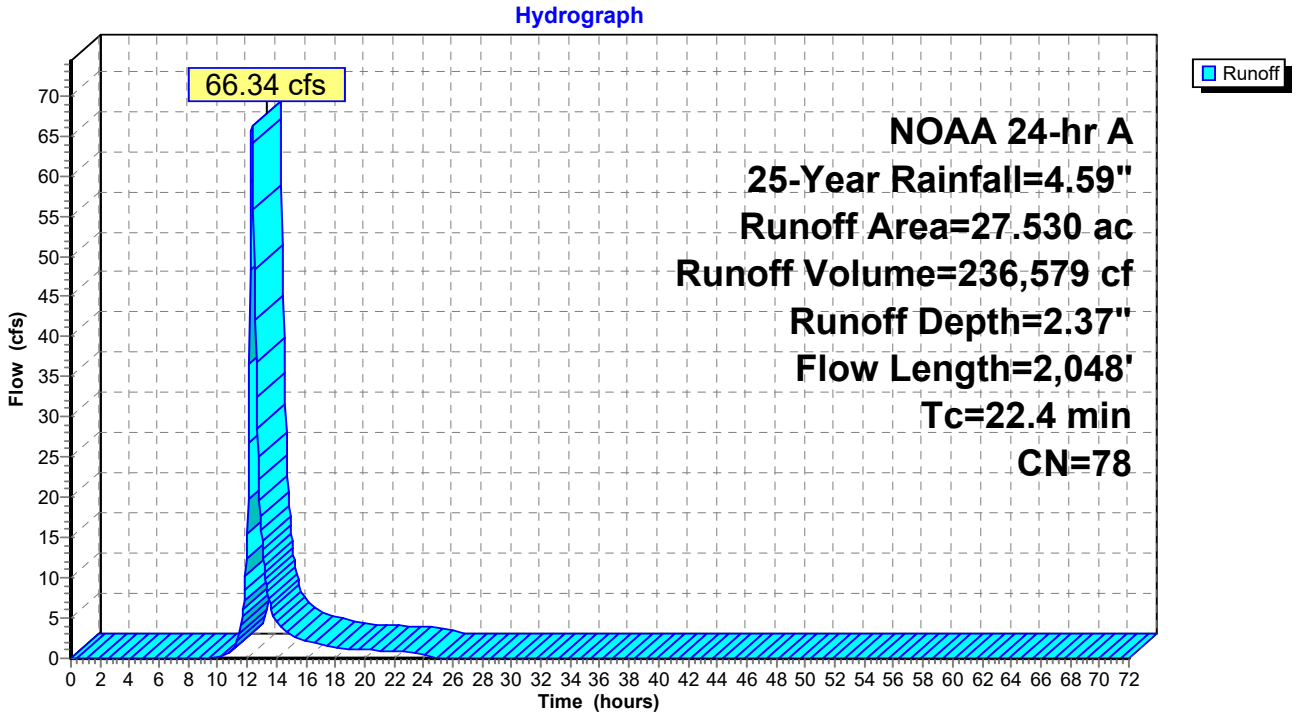
Runoff = 66.34 cfs @ 12.33 hrs, Volume= 236,579 cf, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

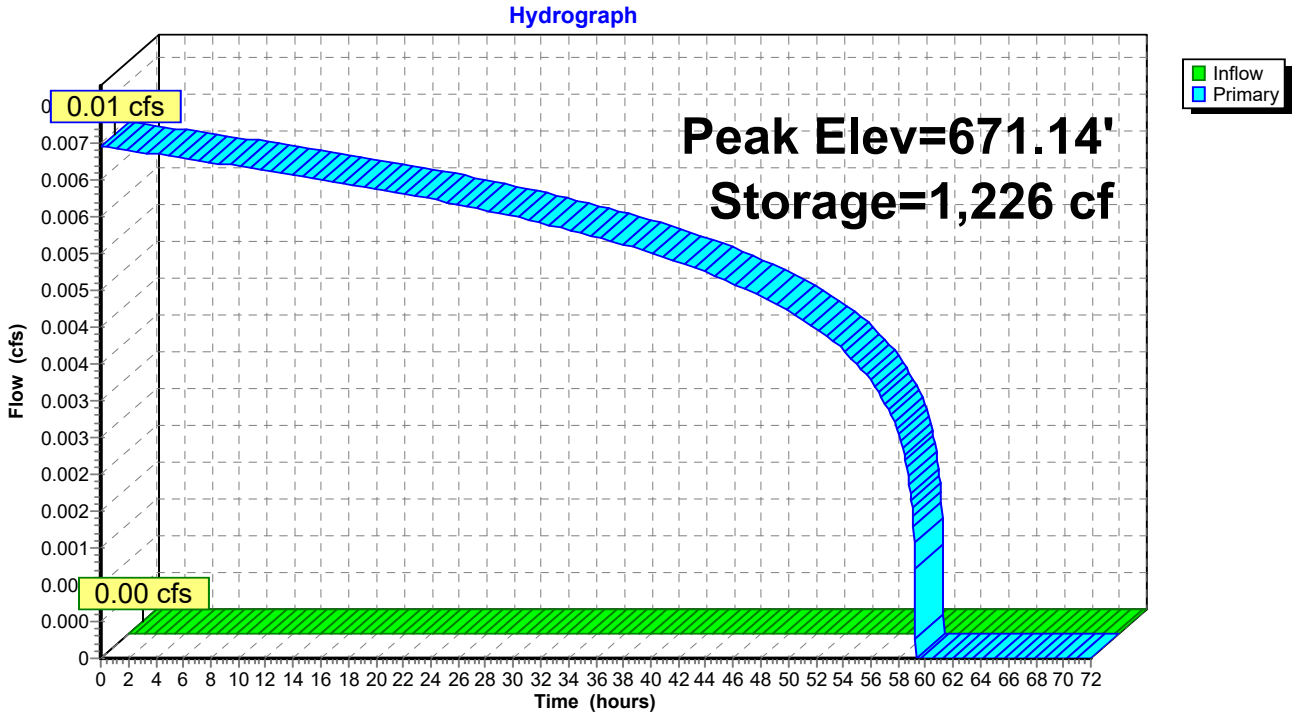
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

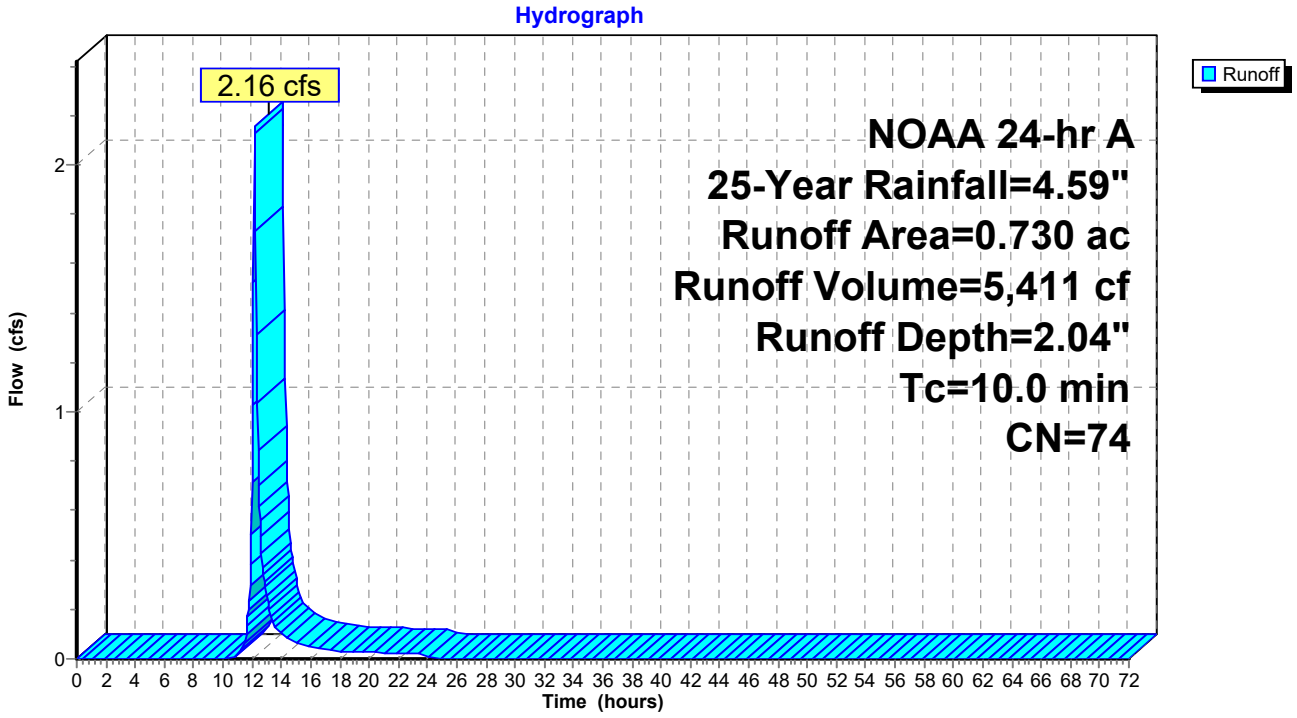
Runoff = 2.16 cfs @ 12.18 hrs, Volume= 5,411 cf, Depth= 2.04"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

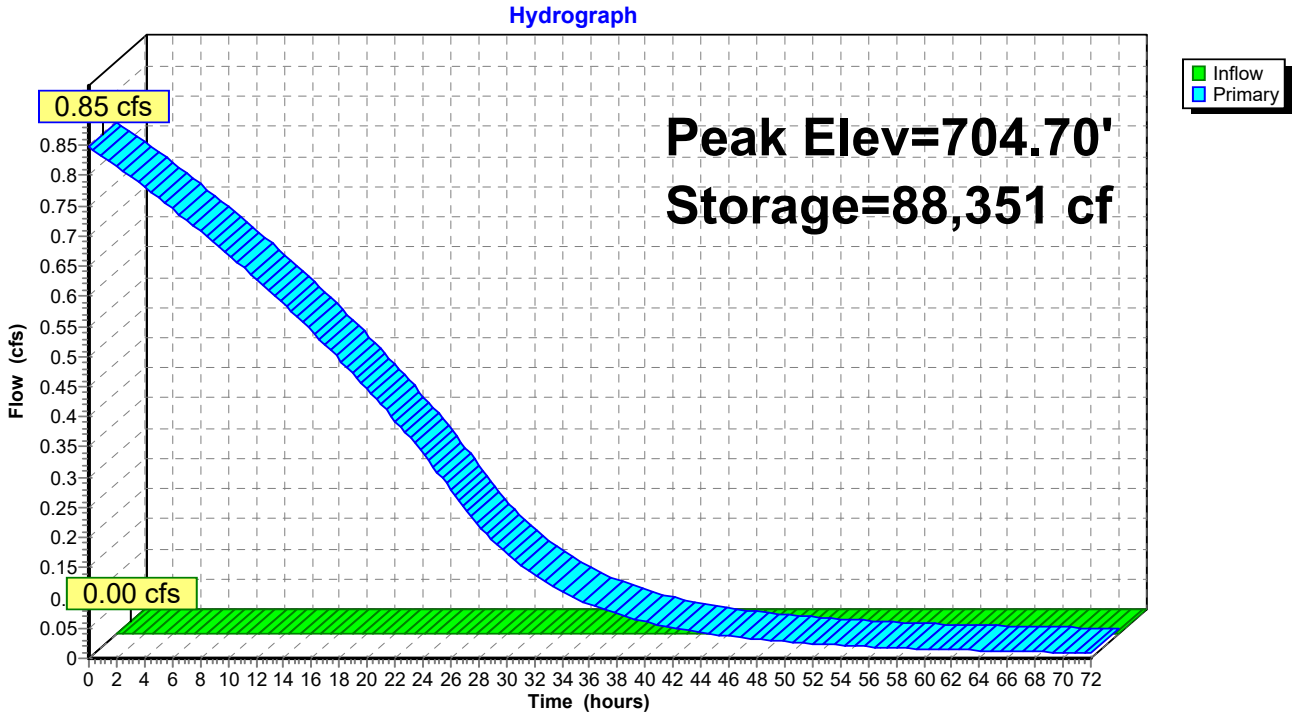
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

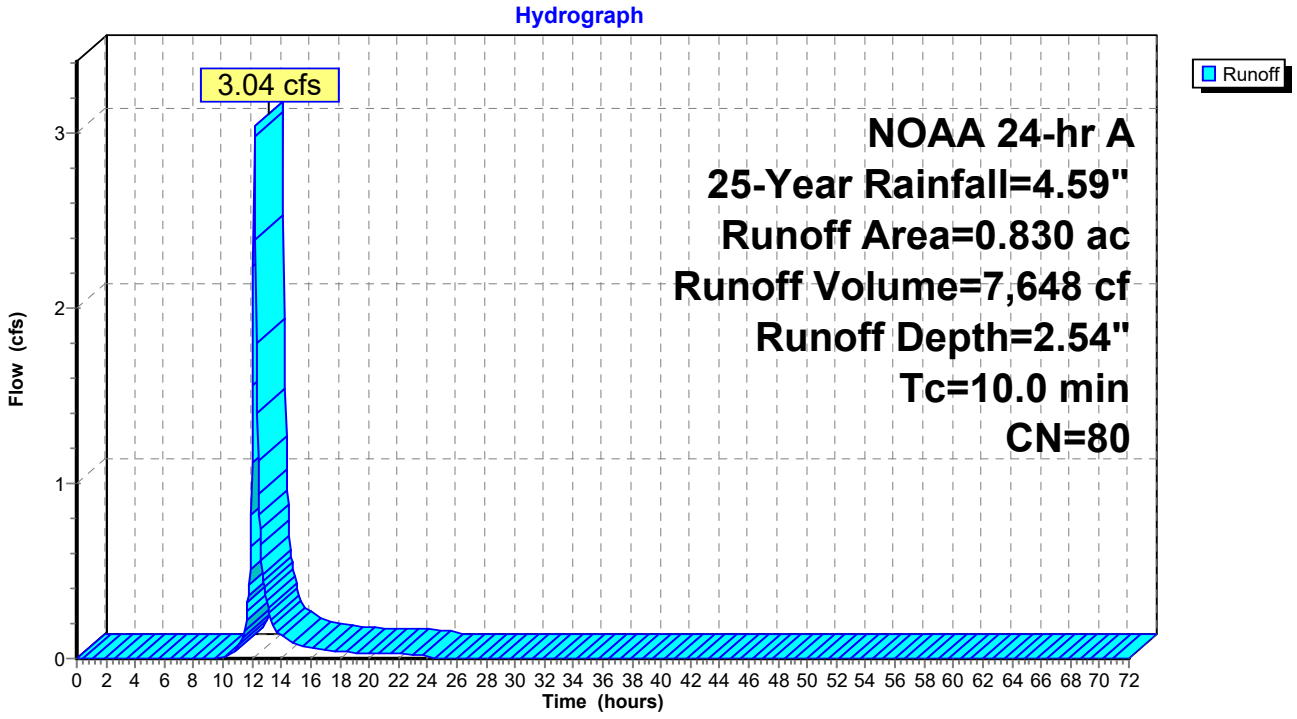
Runoff = 3.04 cfs @ 12.18 hrs, Volume= 7,648 cf, Depth= 2.54"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

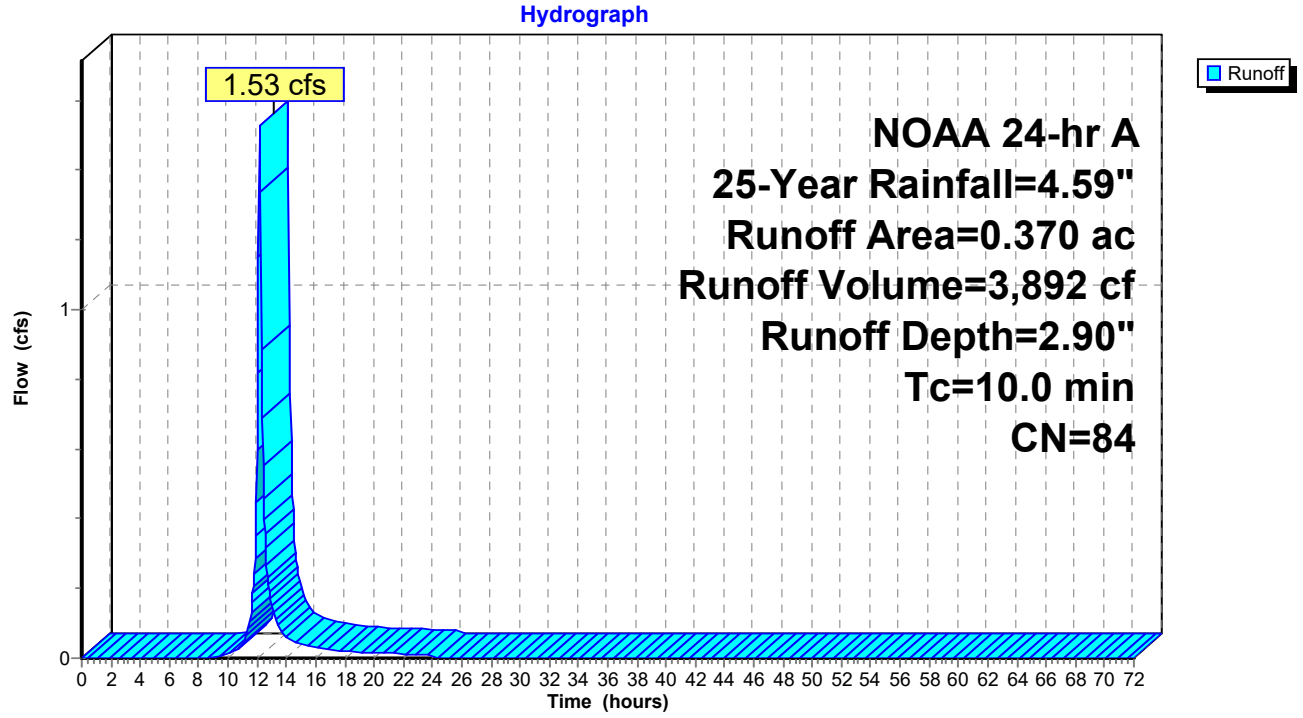
Runoff = 1.53 cfs @ 12.18 hrs, Volume= 3,892 cf, Depth= 2.90"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

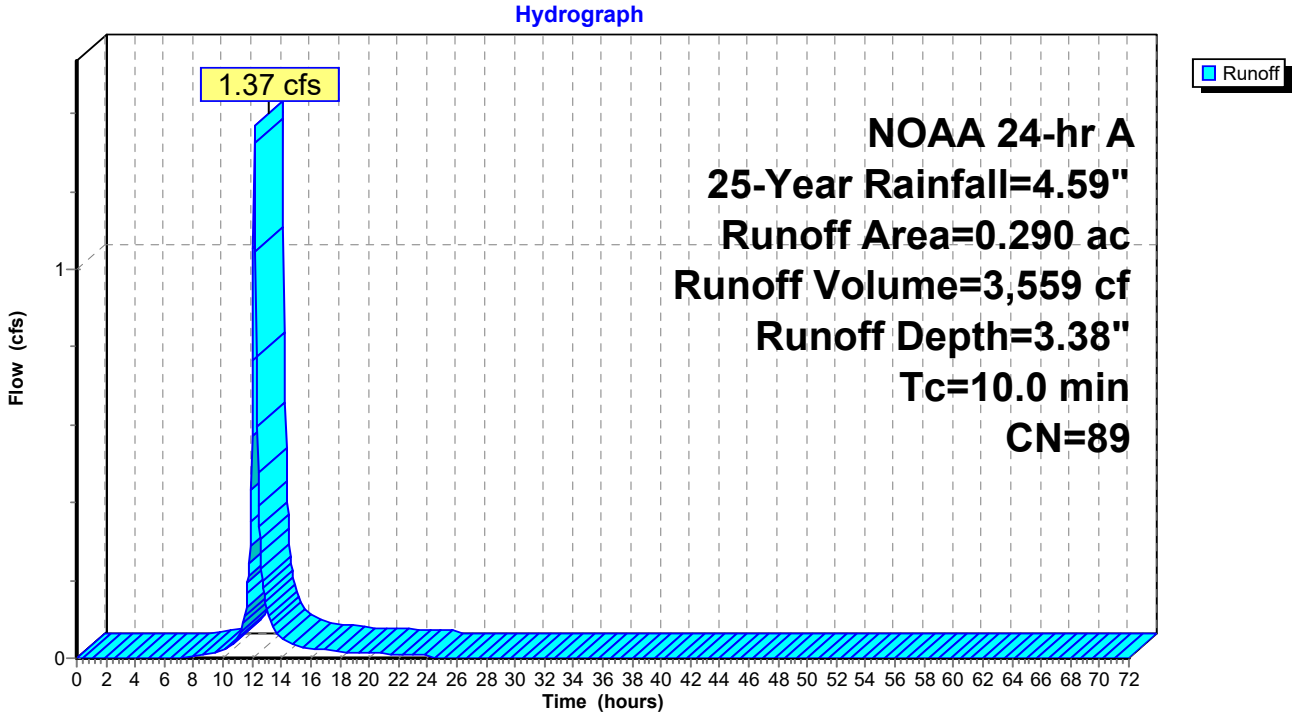
Runoff = 1.37 cfs @ 12.17 hrs, Volume= 3,559 cf, Depth= 3.38"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

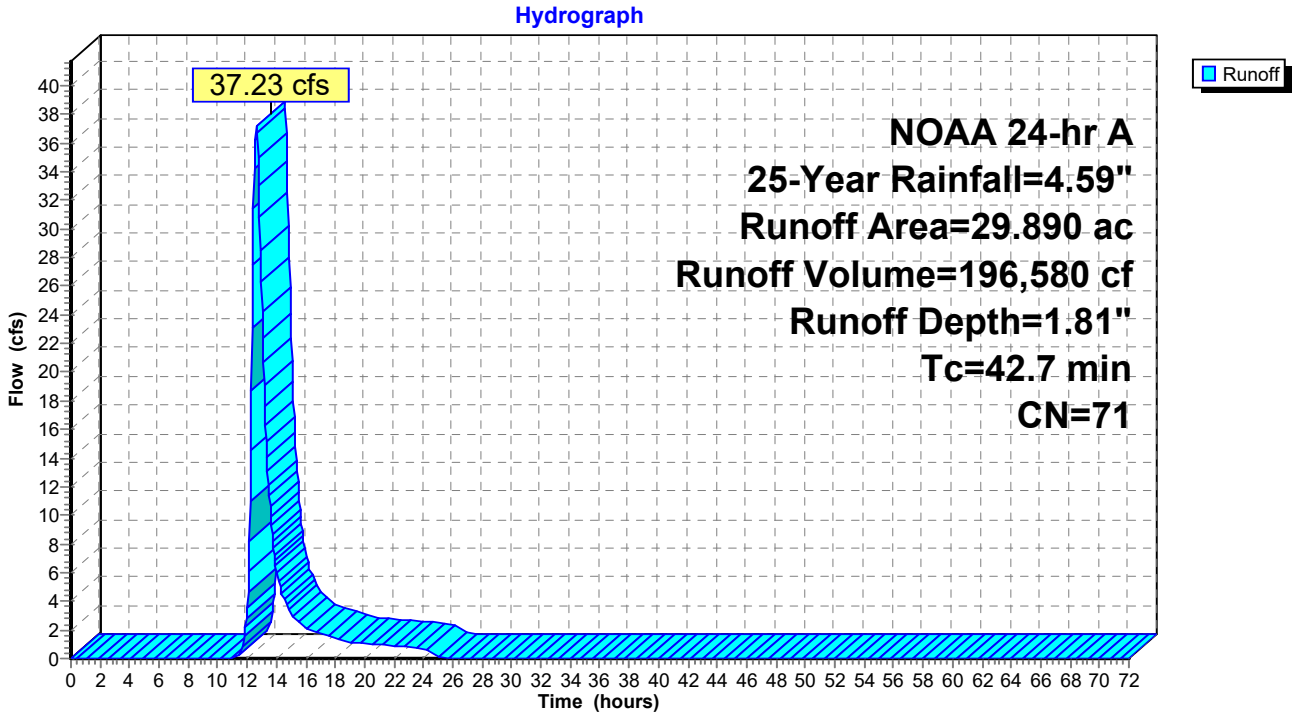
Runoff = 37.23 cfs @ 12.63 hrs, Volume= 196,580 cf, Depth= 1.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 25-Year Rainfall=4.59"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 2.99" for 25-Year event
Inflow = 11.56 cfs @ 12.17 hrs, Volume= 29,484 cf
Outflow = 4.80 cfs @ 12.37 hrs, Volume= 29,201 cf, Atten= 59%, Lag= 11.7 min
Primary = 4.80 cfs @ 12.37 hrs, Volume= 29,201 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.42' @ 12.37 hrs Surf.Area= 10,036 sf Storage= 10,219 cf

Plug-Flow detention time= 121.6 min calculated for 29,180 cf (99% of inflow)
Center-of-Mass det. time= 117.5 min (915.1 - 797.6)

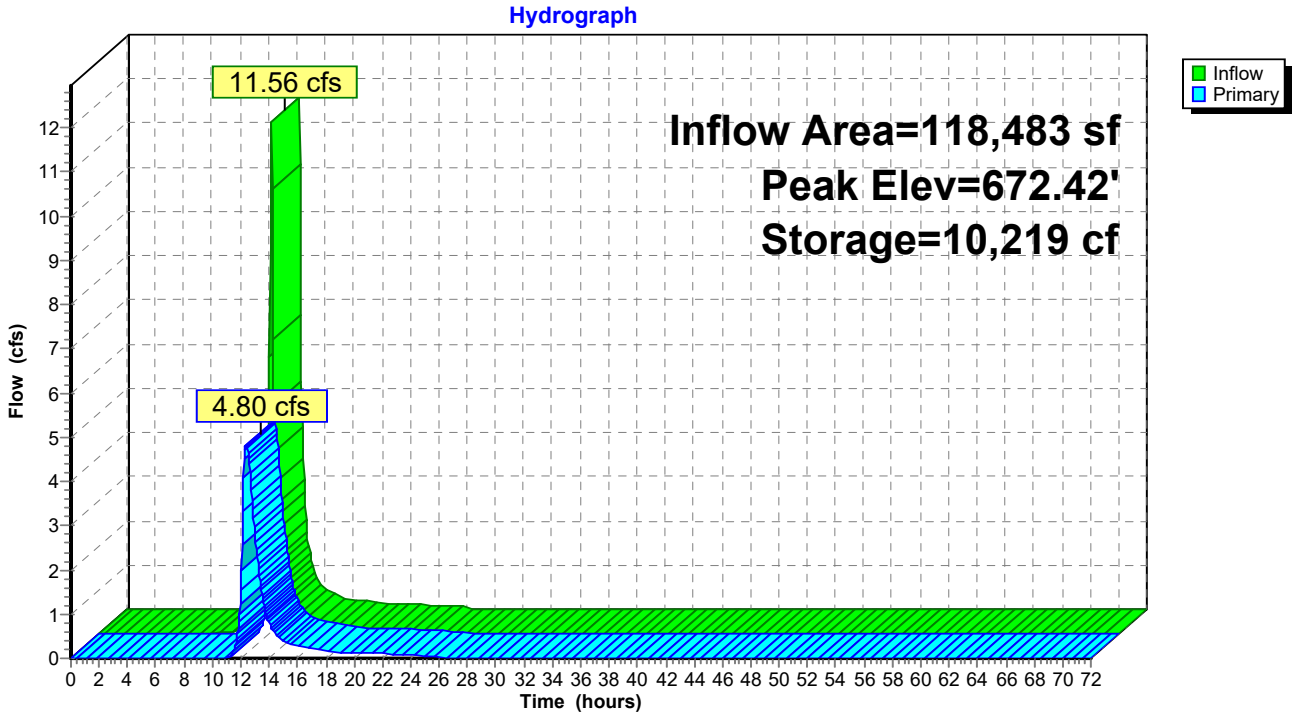
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=4.79 cfs @ 12.37 hrs HW=672.42' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 4.79 cfs of 18.02 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.46 fps)
  └─**3=Orifice/Grate** (Orifice Controls 4.78 cfs @ 3.89 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 3.26" for 25-Year event
Inflow = 104.16 cfs @ 12.42 hrs, Volume= 448,697 cf
Outflow = 9.29 cfs @ 13.87 hrs, Volume= 421,712 cf, Atten= 91%, Lag= 86.9 min
Primary = 9.29 cfs @ 13.87 hrs, Volume= 421,712 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.07' @ 13.87 hrs Surf.Area= 103,129 sf Storage= 302,422 cf

Plug-Flow detention time= 720.5 min calculated for 421,419 cf (94% of inflow)
Center-of-Mass det. time= 691.1 min (1,501.6 - 810.5)

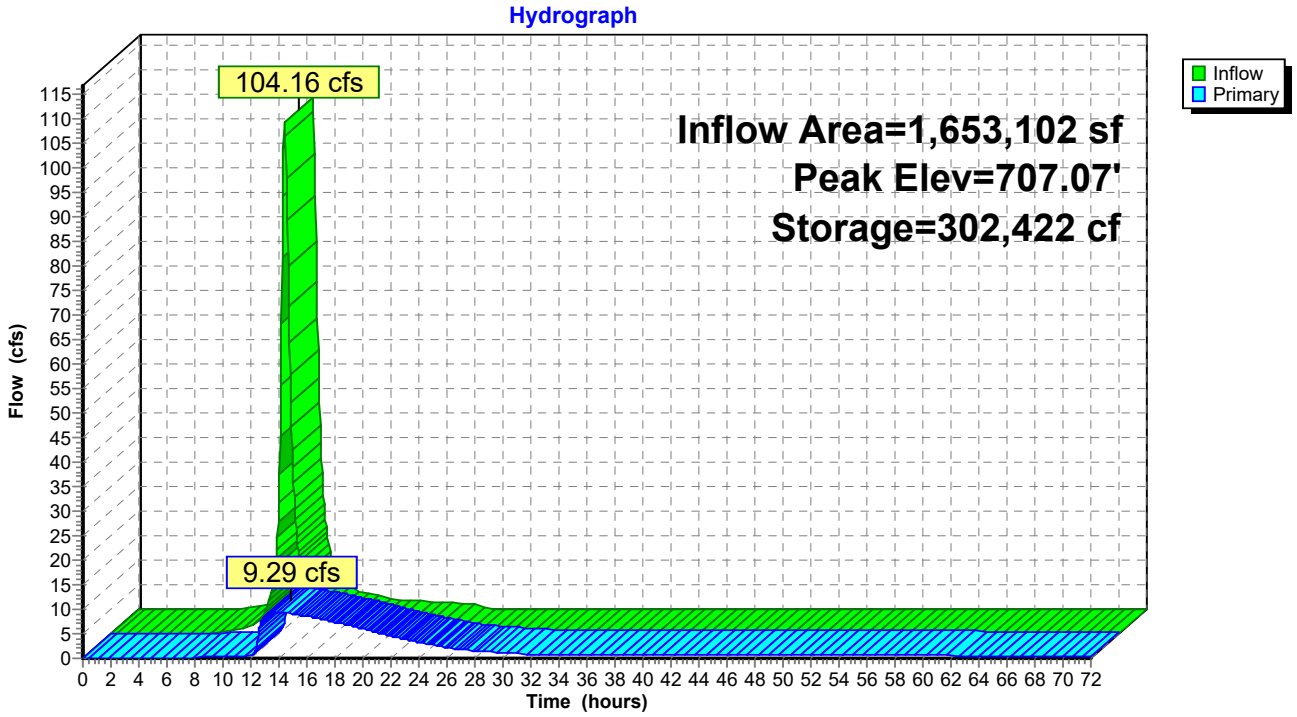
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.29 cfs @ 13.87 hrs HW=707.07' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 9.29 cfs of 51.88 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.78 cfs @ 11.72 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 8.51 cfs @ 6.09 fps)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

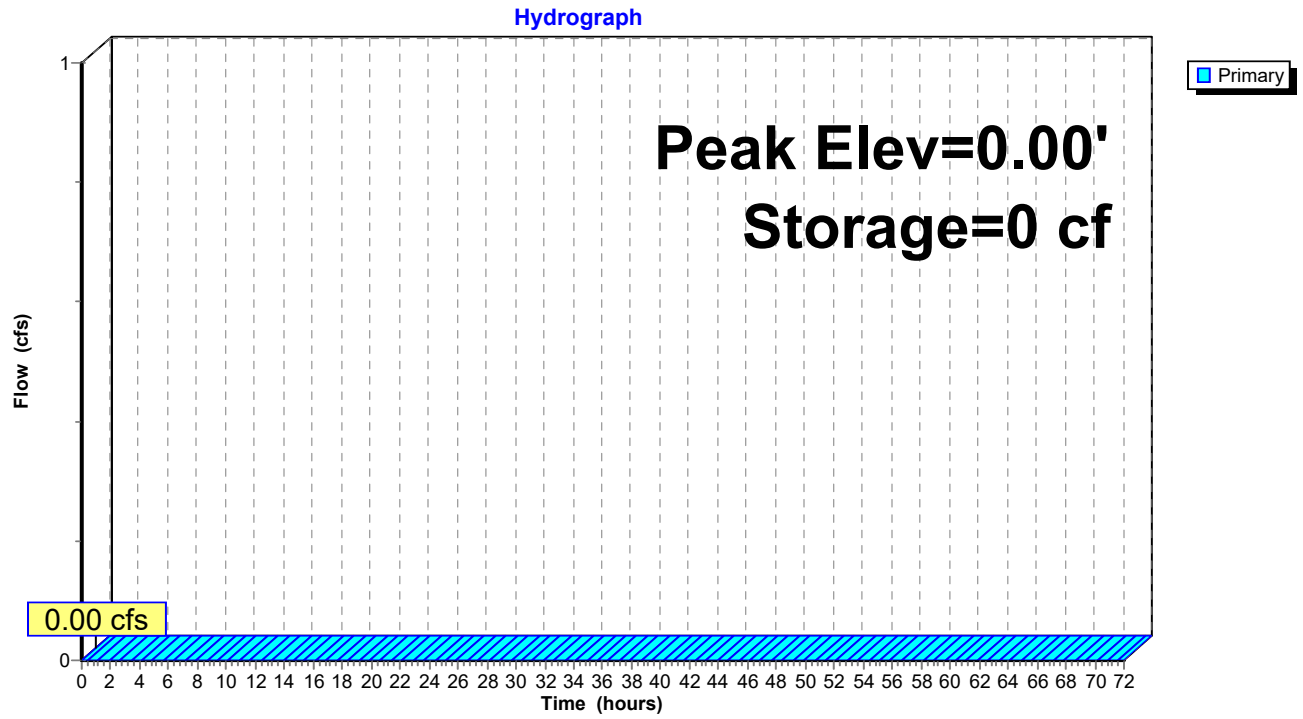
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

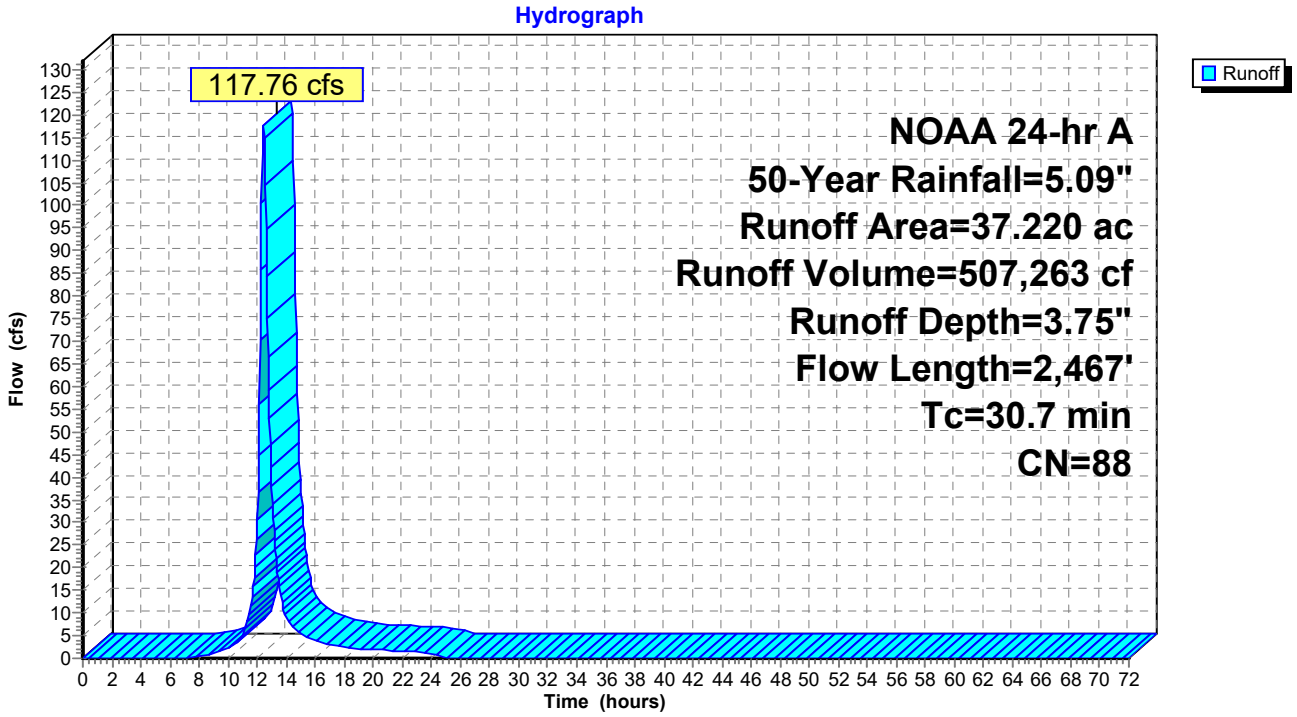
Runoff = 117.76 cfs @ 12.42 hrs, Volume= 507,263 cf, Depth= 3.75"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



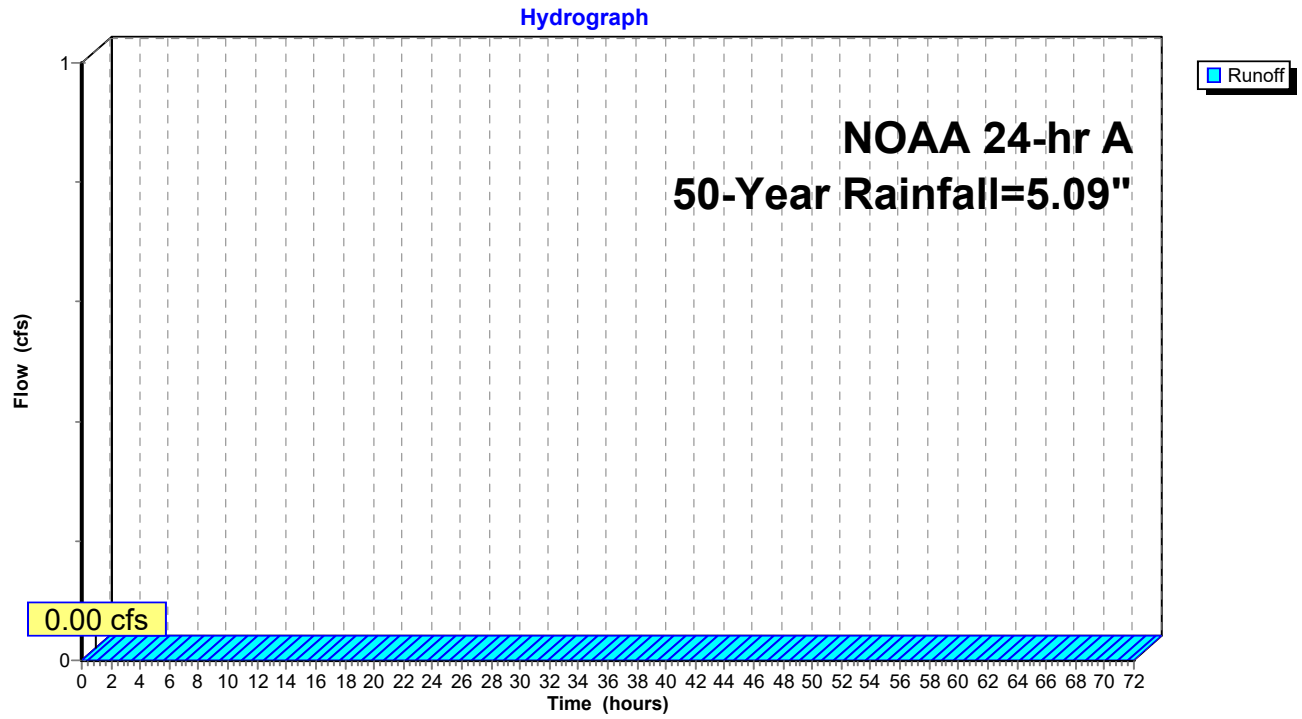
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

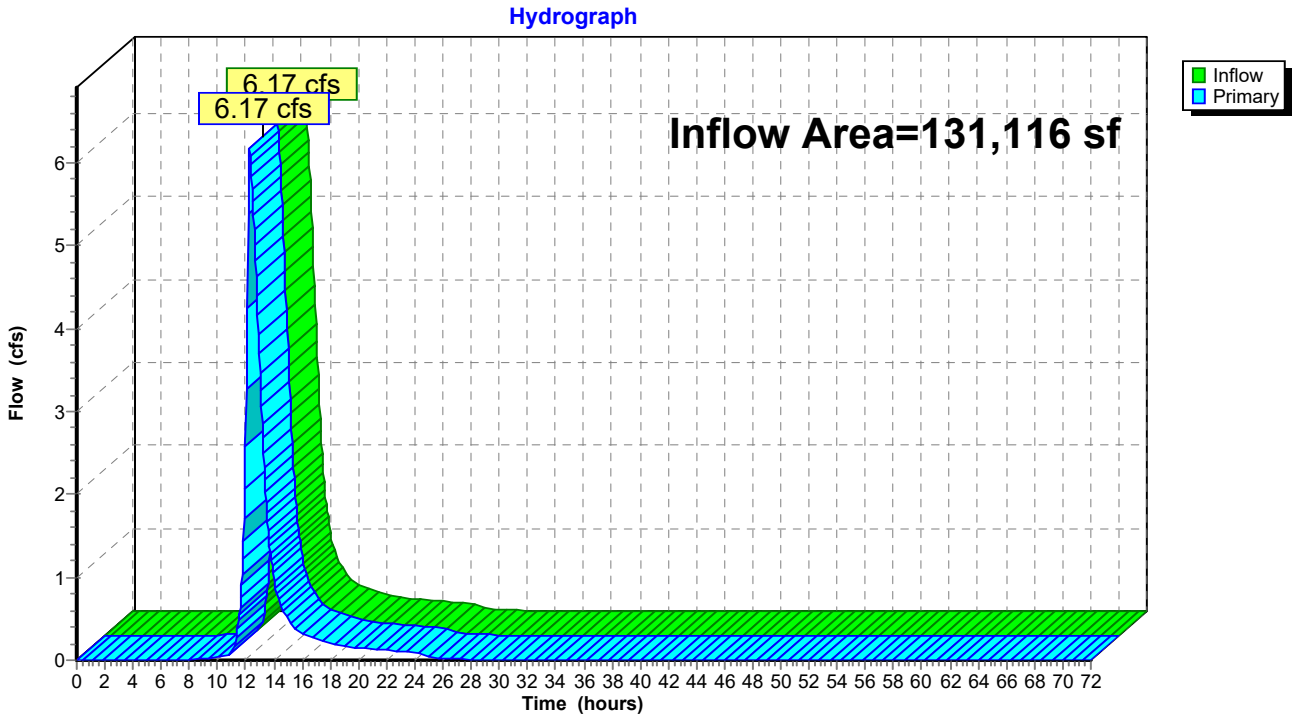


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.46" for 50-Year event
Inflow = 6.17 cfs @ 12.25 hrs, Volume= 37,785 cf
Primary = 6.17 cfs @ 12.25 hrs, Volume= 37,785 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

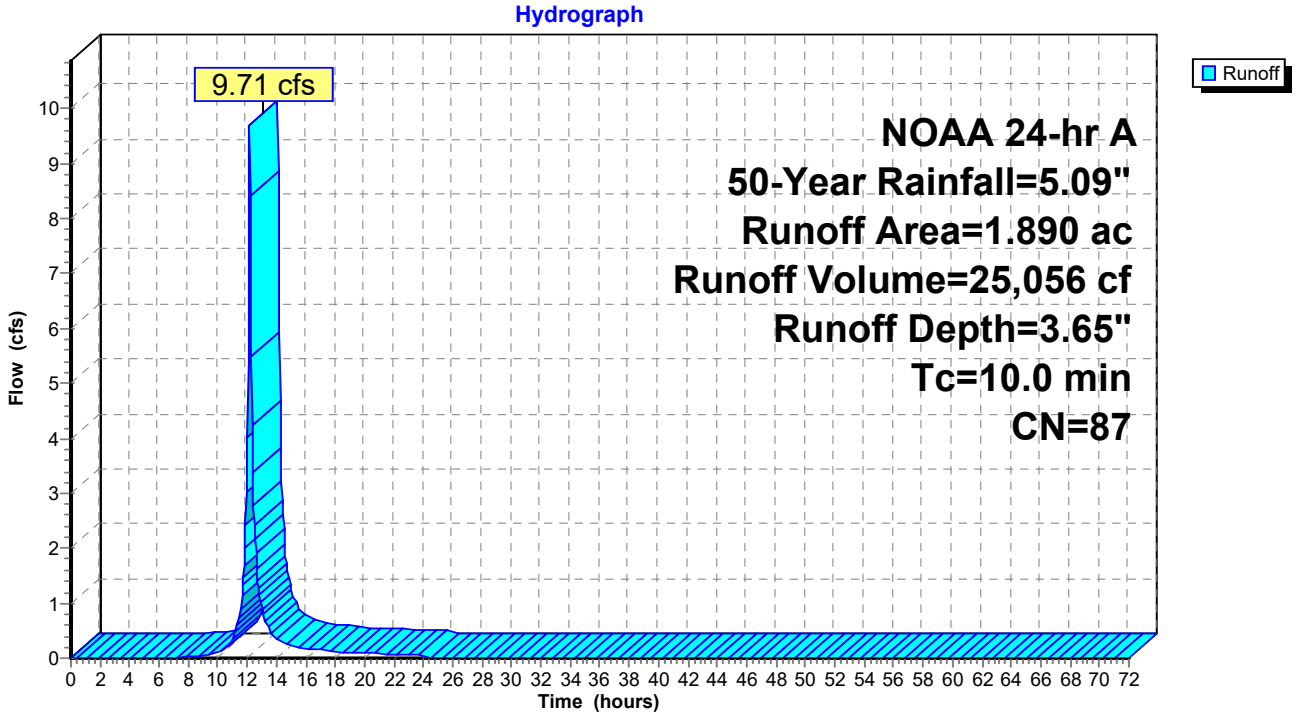
Runoff = 9.71 cfs @ 12.17 hrs, Volume= 25,056 cf, Depth= 3.65"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

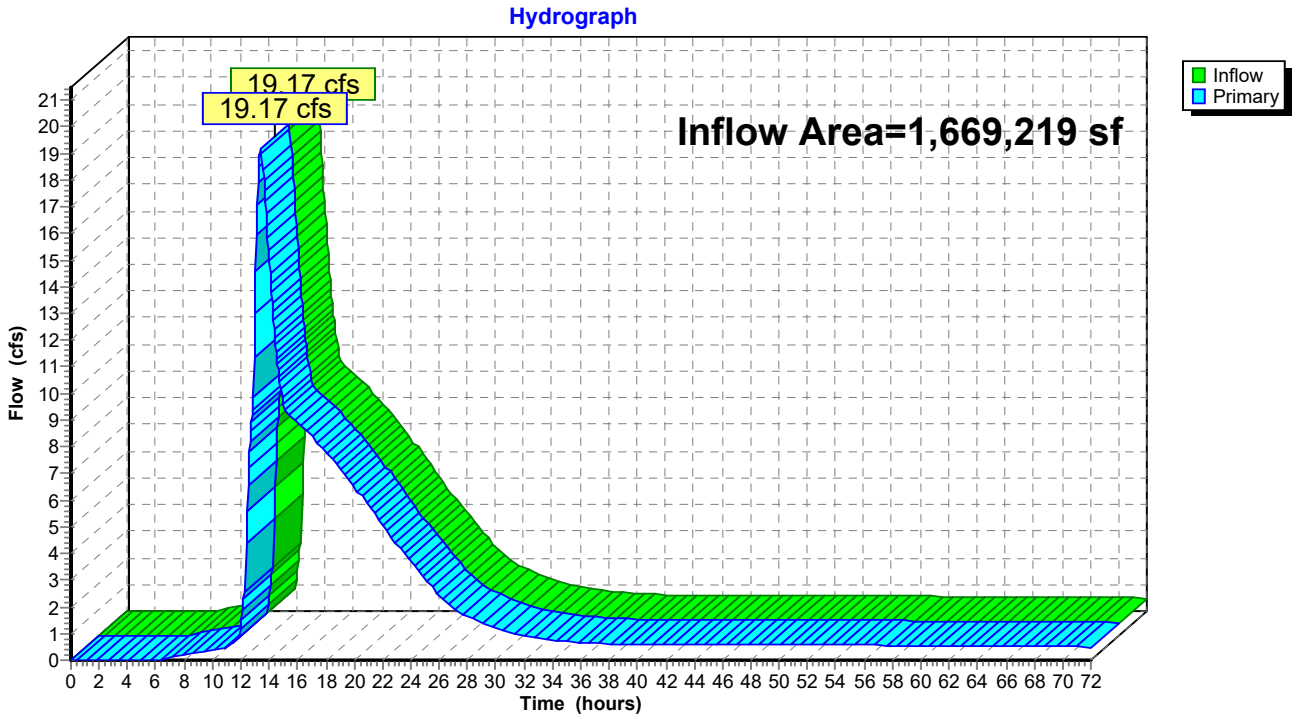


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 3.53" for 50-Year event
Inflow = 19.17 cfs @ 13.40 hrs, Volume= 490,340 cf
Primary = 19.17 cfs @ 13.40 hrs, Volume= 490,340 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

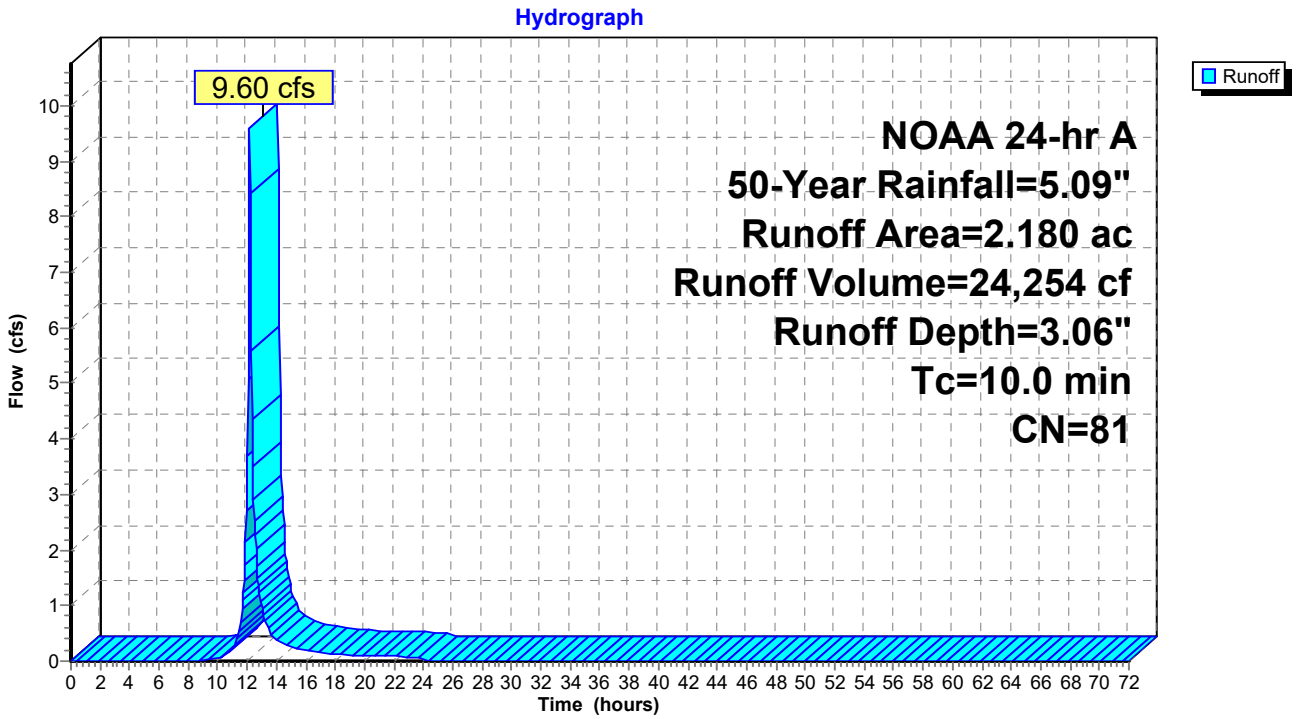
Runoff = 9.60 cfs @ 12.18 hrs, Volume= 24,254 cf, Depth= 3.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

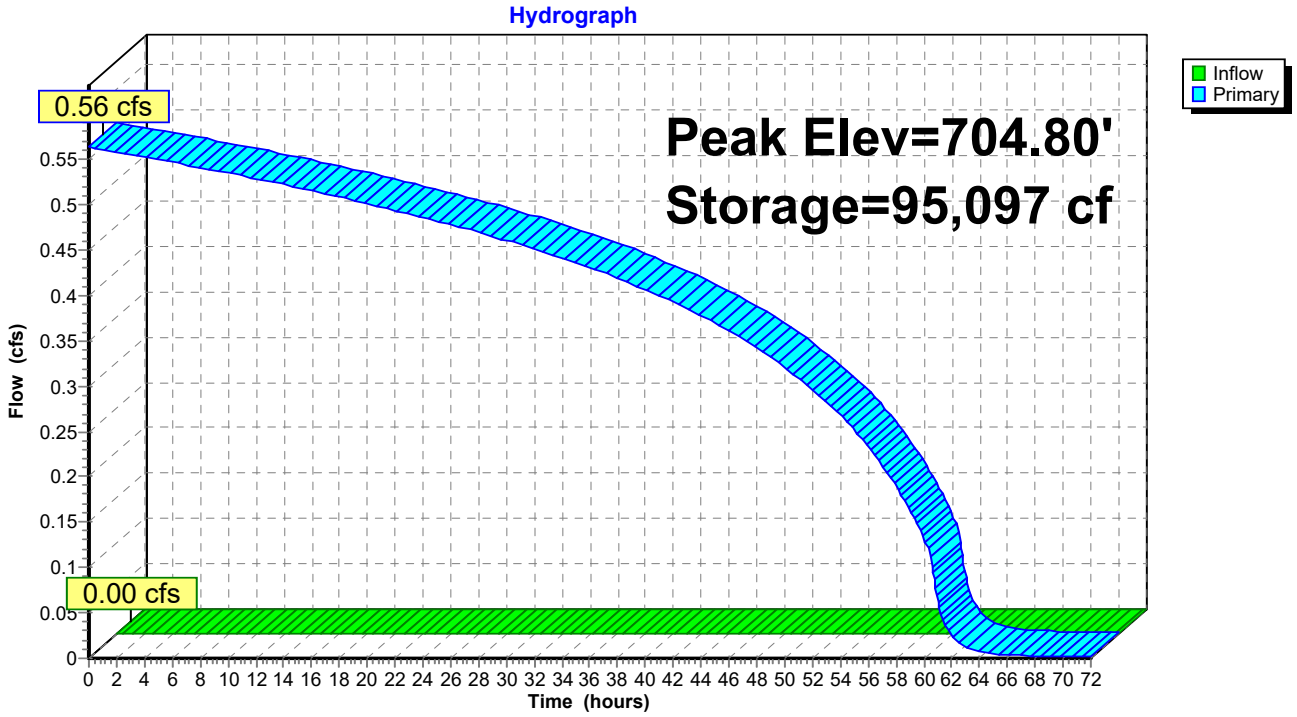
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

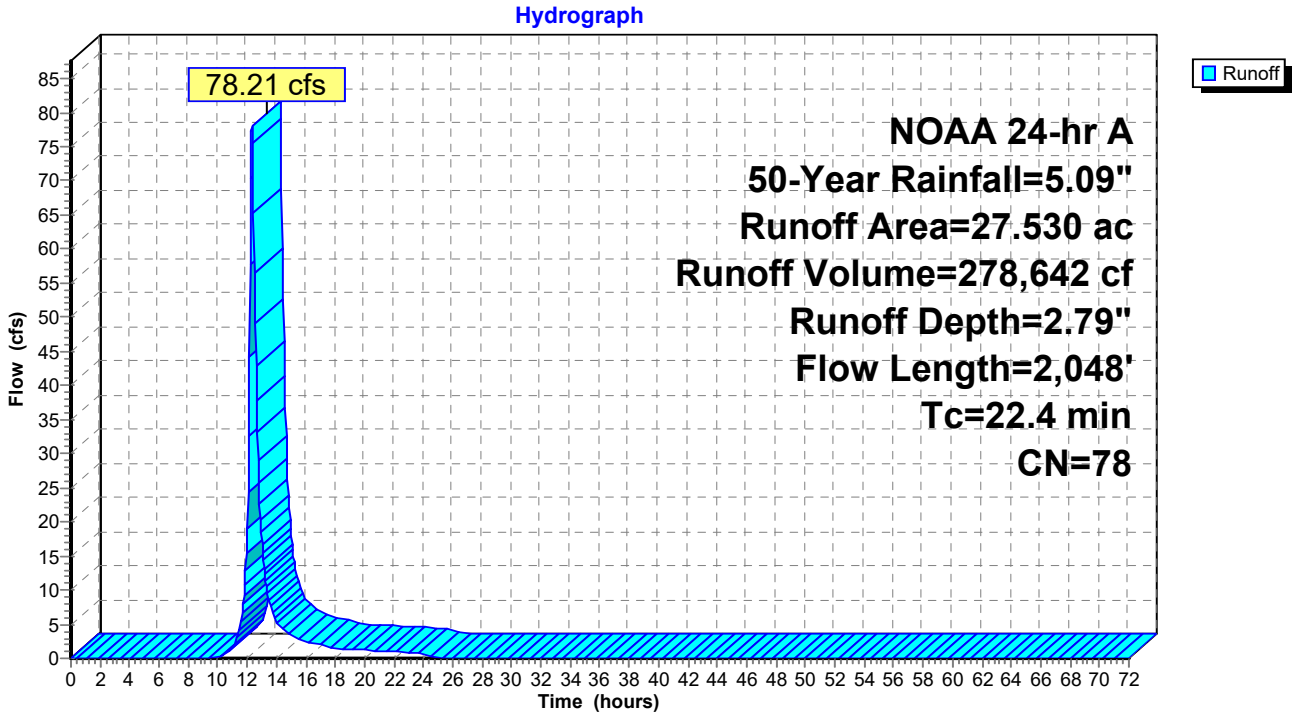
Runoff = 78.21 cfs @ 12.33 hrs, Volume= 278,642 cf, Depth= 2.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

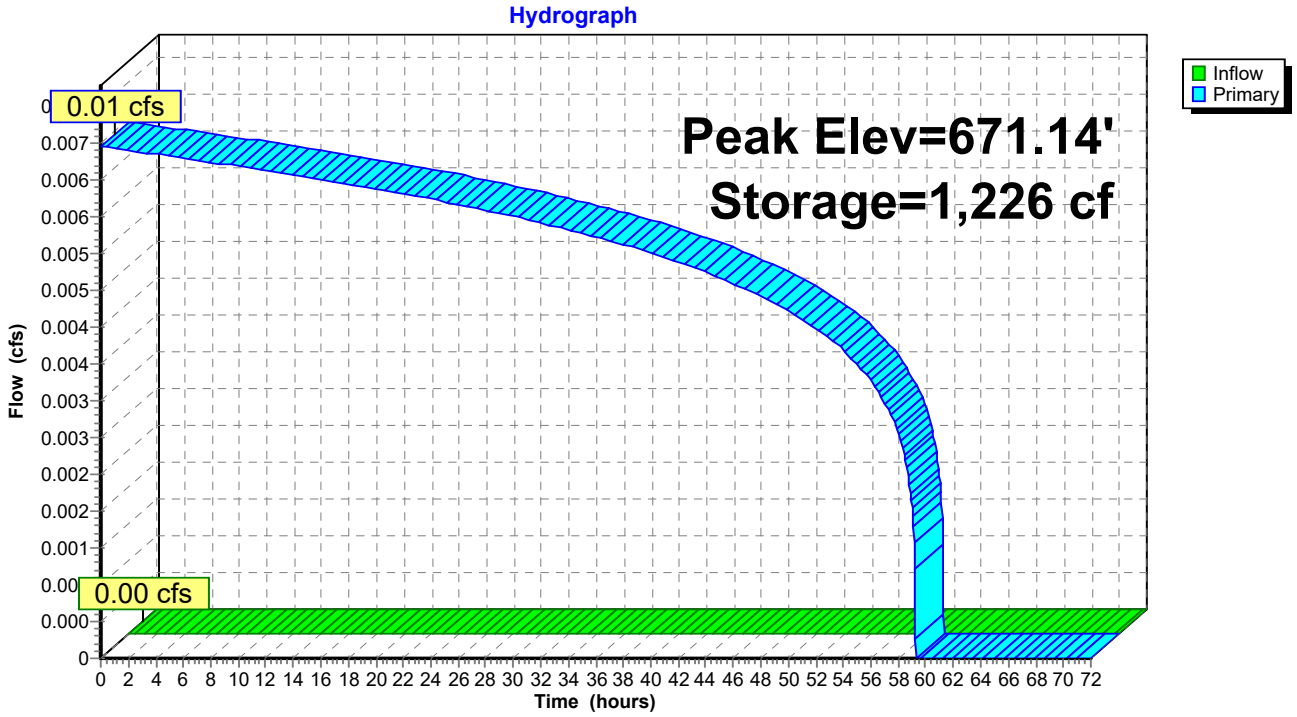
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

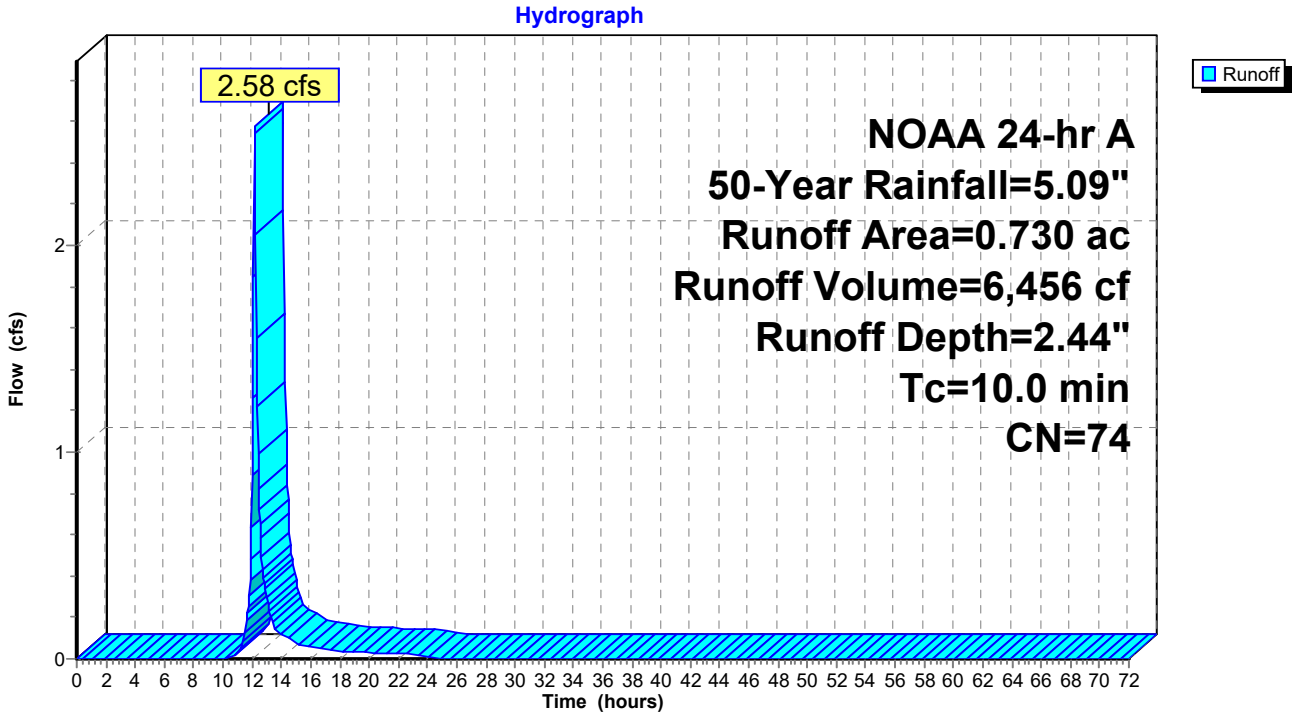
Runoff = 2.58 cfs @ 12.18 hrs, Volume= 6,456 cf, Depth= 2.44"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow	=	0.00 cfs @	0.00 hrs, Volume=	0 cf	
Outflow	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf,	Atten= 0%, Lag= 0.0 min
Primary	=	0.85 cfs @	0.00 hrs, Volume=	65,368 cf	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

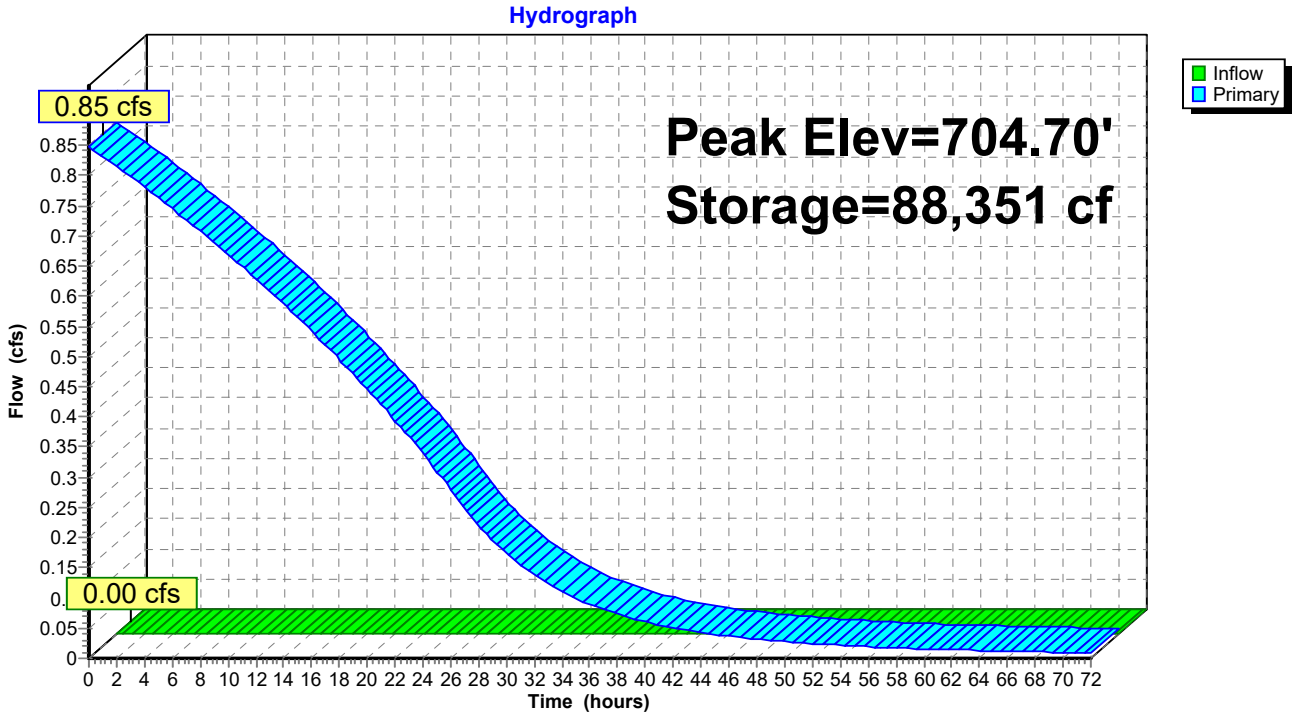
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

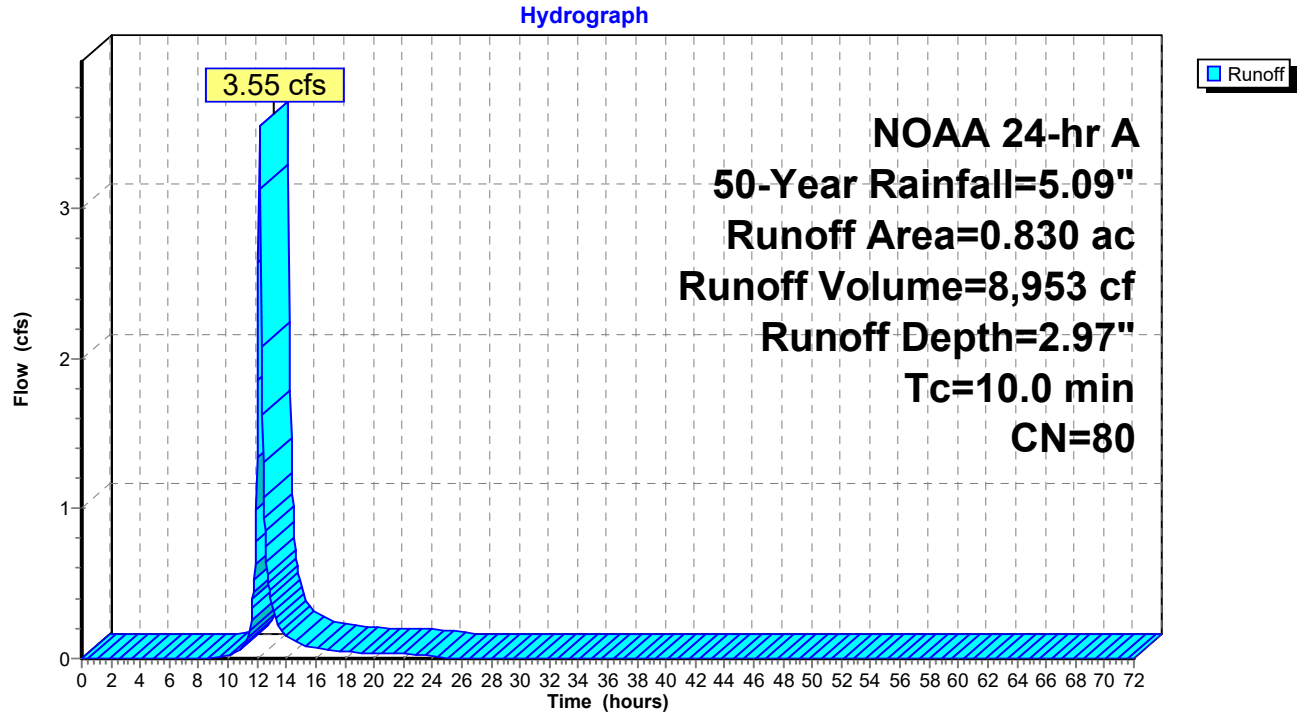
Runoff = 3.55 cfs @ 12.18 hrs, Volume= 8,953 cf, Depth= 2.97"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

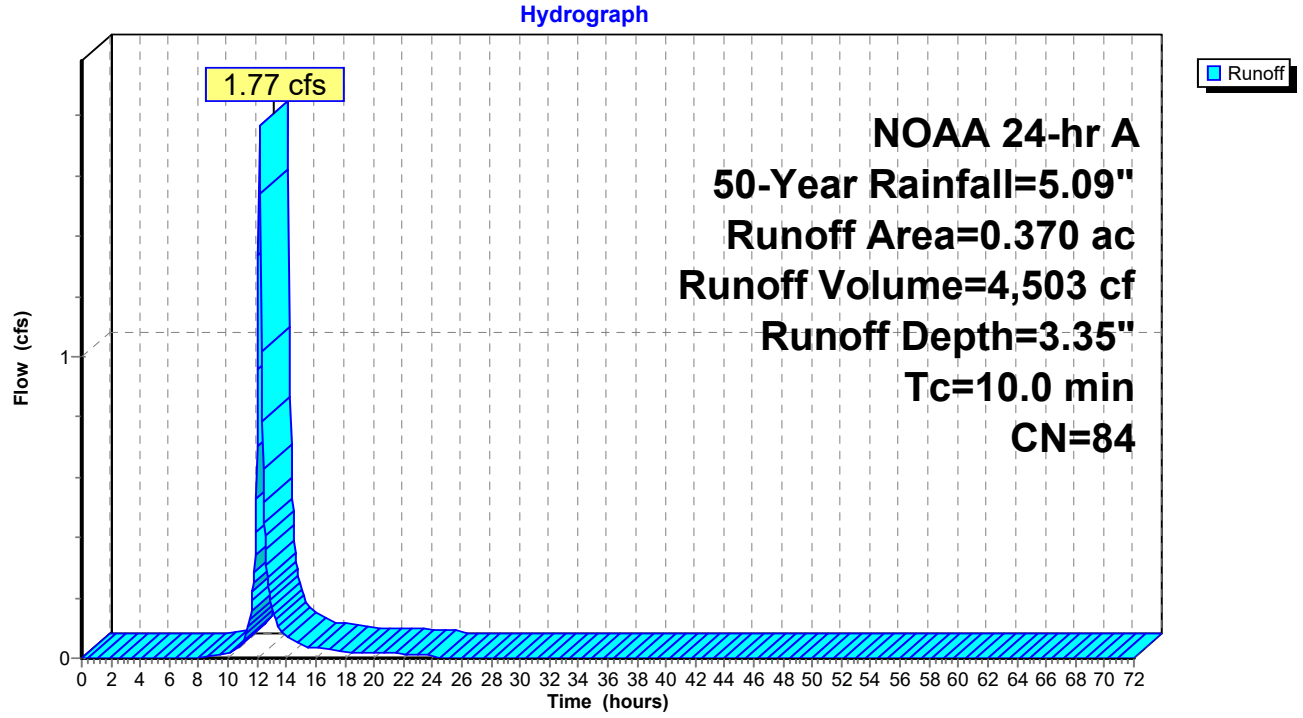
Runoff = 1.77 cfs @ 12.17 hrs, Volume= 4,503 cf, Depth= 3.35"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

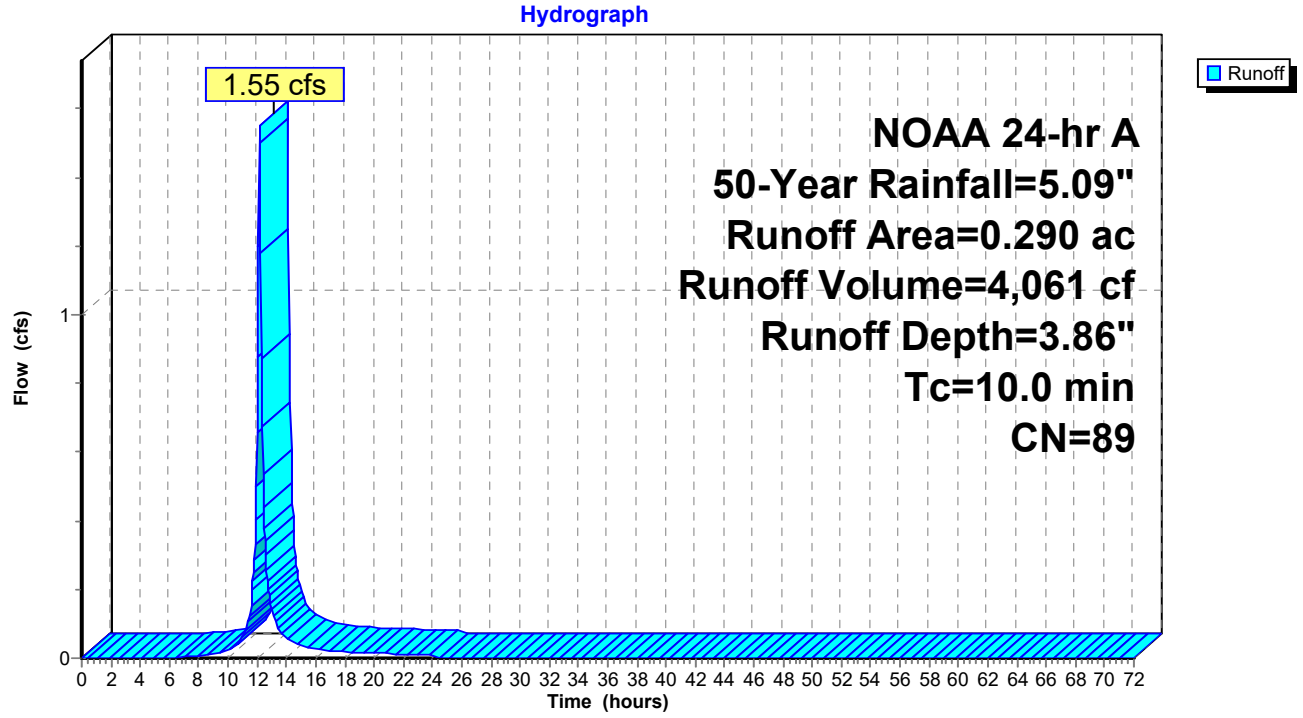
Runoff = 1.55 cfs @ 12.17 hrs, Volume= 4,061 cf, Depth= 3.86"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

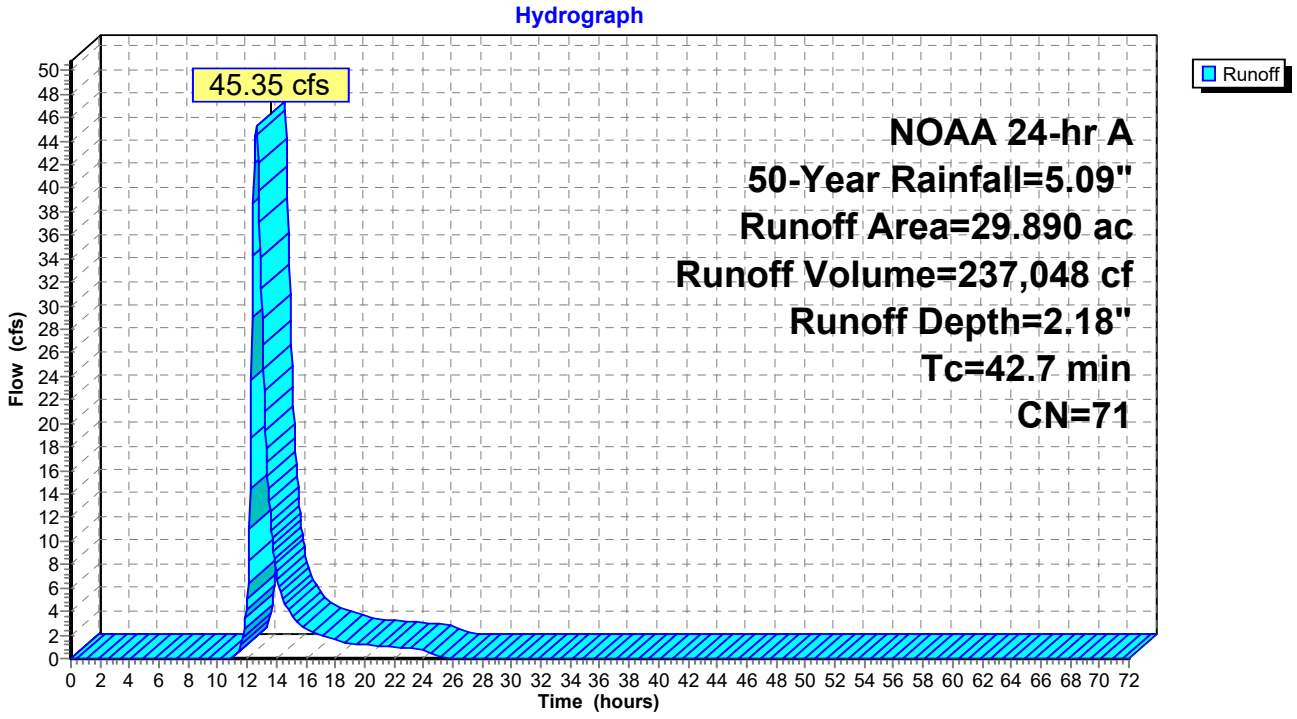
Runoff = 45.35 cfs @ 12.62 hrs, Volume= 237,048 cf, Depth= 2.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 50-Year Rainfall=5.09"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 3.44" for 50-Year event
Inflow = 13.27 cfs @ 12.17 hrs, Volume= 34,009 cf
Outflow = 5.31 cfs @ 12.37 hrs, Volume= 33,723 cf, Atten= 60%, Lag= 12.0 min
Primary = 5.31 cfs @ 12.37 hrs, Volume= 33,723 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.57' @ 12.37 hrs Surf.Area= 10,434 sf Storage= 11,742 cf

Plug-Flow detention time= 112.5 min calculated for 33,723 cf (99% of inflow)
Center-of-Mass det. time= 107.2 min (901.9 - 794.7)

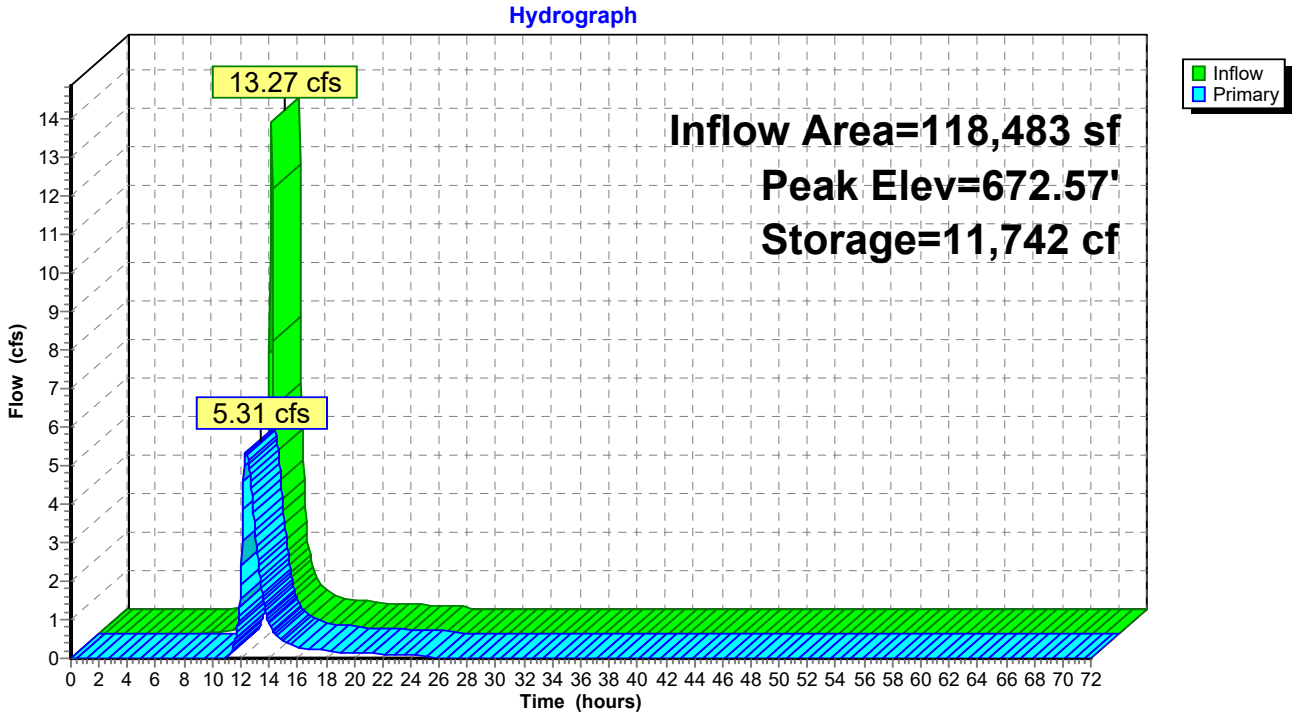
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.30 cfs @ 12.37 hrs HW=672.57' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 5.30 cfs of 18.94 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.68 fps)
  └─**3=Orifice/Grate** (Orifice Controls 5.29 cfs @ 4.31 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 3.73" for 50-Year event
Inflow = 118.66 cfs @ 12.42 hrs, Volume= 513,719 cf
Outflow = 19.06 cfs @ 13.40 hrs, Volume= 485,837 cf, Atten= 84%, Lag= 58.6 min
Primary = 19.06 cfs @ 13.40 hrs, Volume= 485,837 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.34' @ 13.40 hrs Surf.Area= 104,653 sf Storage= 330,813 cf

Plug-Flow detention time= 651.8 min calculated for 485,500 cf (95% of inflow)
Center-of-Mass det. time= 624.9 min (1,432.6 - 807.7)

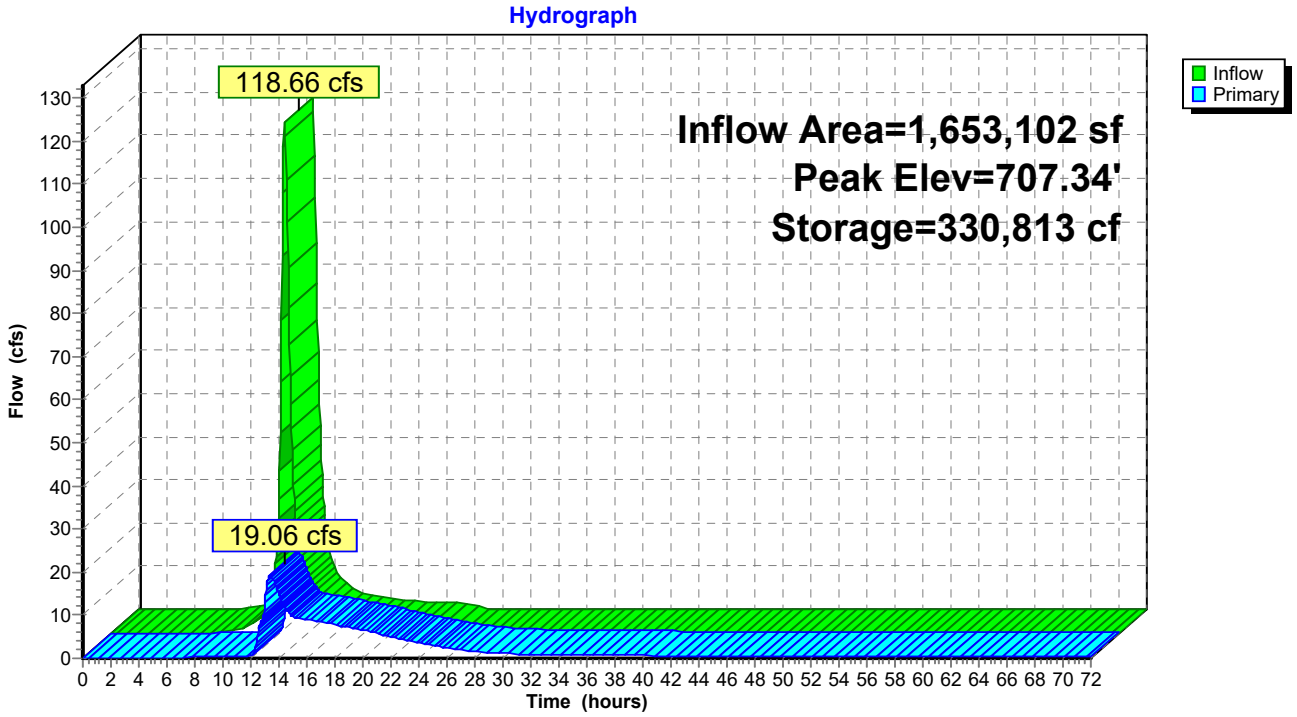
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=19.06 cfs @ 13.40 hrs HW=707.34' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 19.06 cfs of 53.33 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.80 cfs @ 11.98 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 9.20 cfs @ 6.59 fps)
  └─**4=Orifice/Grate** (Orifice Controls 9.06 cfs @ 1.67 fps)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

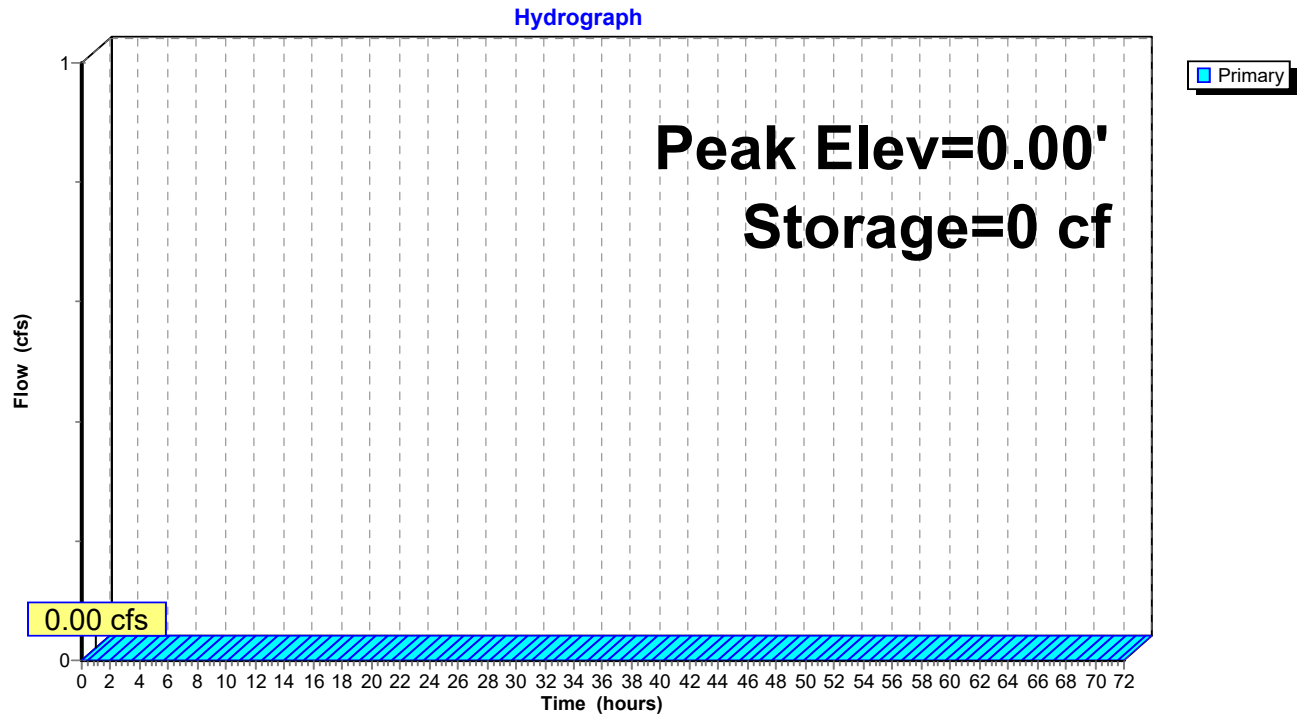
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Summary for Subcatchment 1S: Post High School

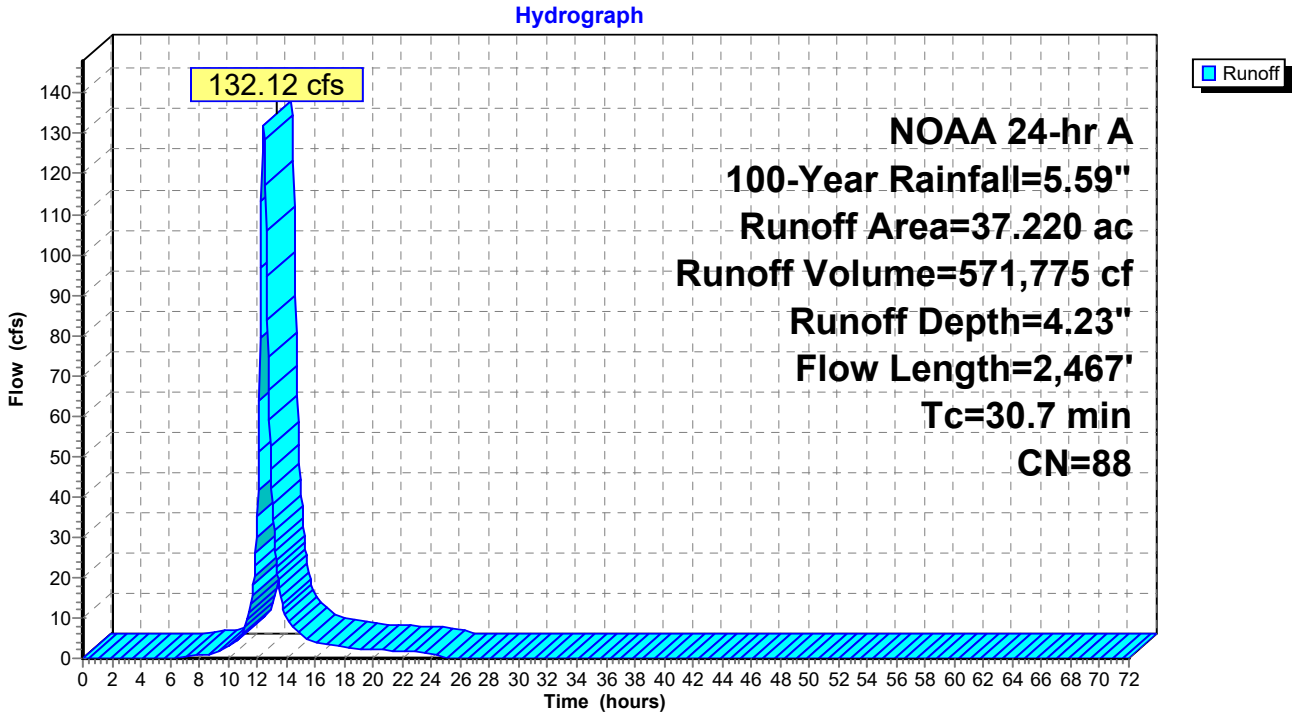
Runoff = 132.12 cfs @ 12.42 hrs, Volume= 571,775 cf, Depth= 4.23"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
17.430	98	Paved parking, HSG D
19.790	80	>75% Grass cover, Good, HSG D
37.220	88	Weighted Average
19.790		53.17% Pervious Area
17.430		46.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.1	203	0.0252	0.14		**Sheet Flow, Grass** n= 0.240 P2= 2.90"
1.6	302	0.0050	3.21	2.52	**Pipe Channel, 219 to 208** 12.00" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013
0.7	186	0.0050	4.20	7.43	**Pipe Channel, 208 to 207** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.6	192	0.0050	5.09	16.00	**Pipe Channel, 207 to 206** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	154	0.0090	6.83	21.46	**Pipe Channel, 206 to 205** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	244	0.0121	10.38	73.37	**Pipe Channel, 205 to 203** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	203	0.0362	17.95	126.90	**Pipe Channel, 203 to 201** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.2	80	0.0050	6.67	47.16	**Pipe Channel, 201 to 200** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.7	278	0.0050	6.67	47.16	**Pipe Channel, 200 to HW2** 36.00" Round Area= 7.1 sf Perim= 9.4' r= 0.75' n= 0.013
0.5	121	0.0252	4.36	95.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	226	0.0521	6.27	137.94	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.7	278	0.0582	6.63	145.79	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
30.7	2,467	Total			

Subcatchment 1S: Post High School



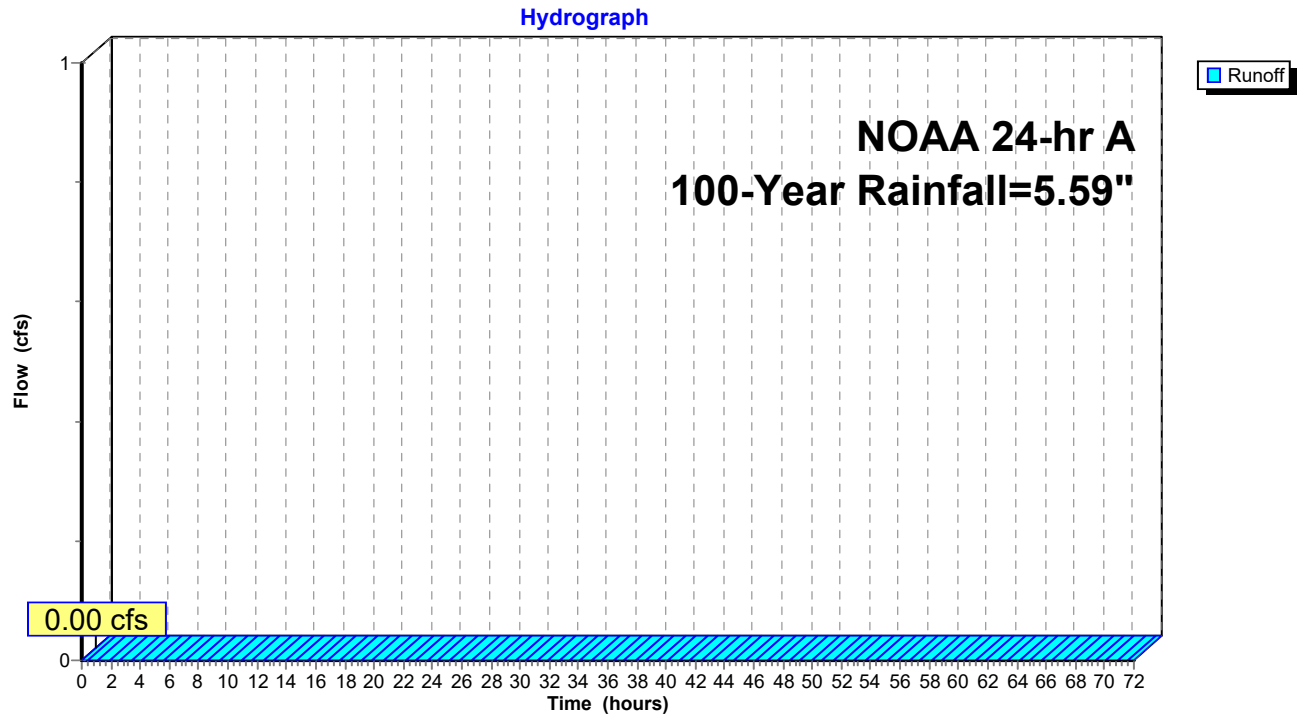
Summary for Subcatchment 2S: Post High School (North Route)

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0 cf, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.4	100	0.0334	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
3.6	266	0.0060	1.25		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	194	0.0092	5.70	10.08	**Pipe Channel, EX CB TO EX CB** 18.00" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.013
0.5	129	0.0032	4.07	12.80	**Pipe Channel, EX TO 305** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.2	71	0.0050	5.09	16.00	**Pipe Channel, 305 TO 304** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	360	0.5000	50.92	159.96	**Pipe Channel, 304 TO 300** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	59	0.0465	15.53	48.78	**Pipe Channel, 300 TO OUTLET** 24.00" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.4	148	0.0405	5.53	121.62	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
1.6	546	0.0440	5.76	126.77	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
0.4	175	0.0570	6.56	144.28	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
15.9	2,048	Total			

Subcatchment 2S: Post High School (North Route)

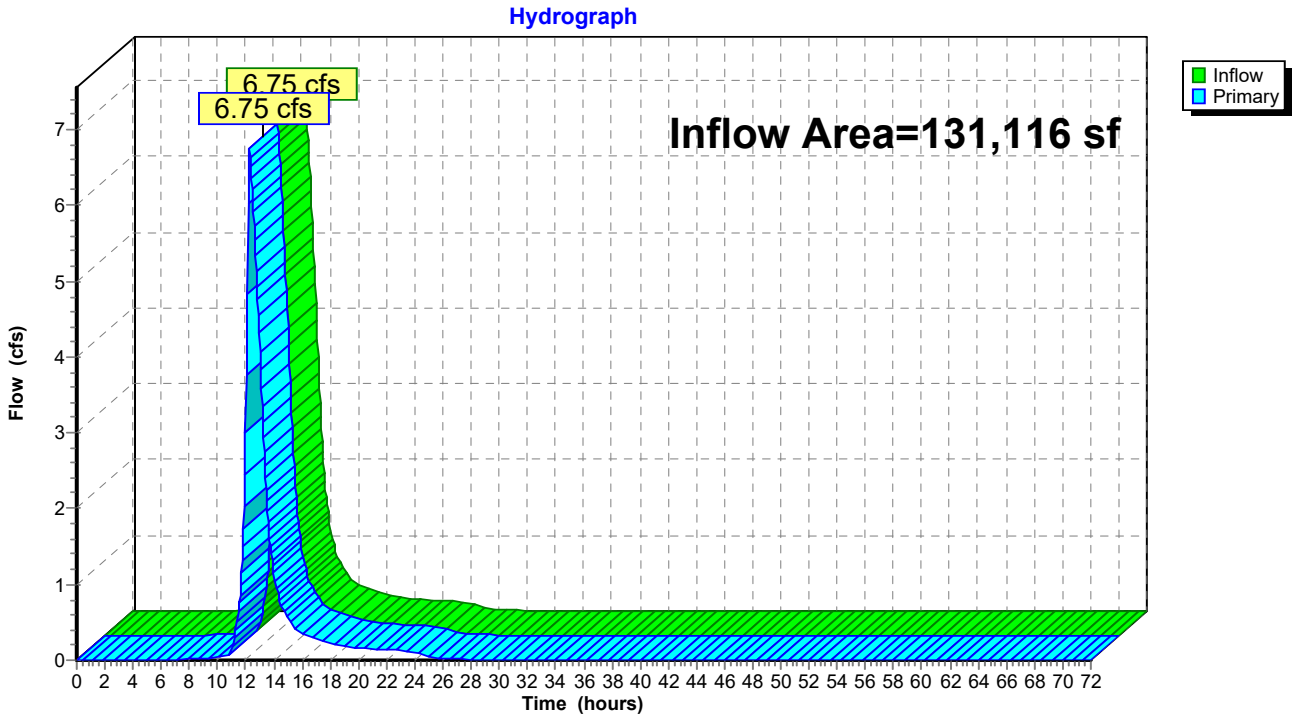


Summary for Link 3L: (new Link)

Inflow Area = 131,116 sf, 29.57% Impervious, Inflow Depth > 3.92" for 100-Year event
Inflow = 6.75 cfs @ 12.25 hrs, Volume= 42,872 cf
Primary = 6.75 cfs @ 12.25 hrs, Volume= 42,872 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 3L: (new Link)



Summary for Subcatchment 3S: Post New Drive

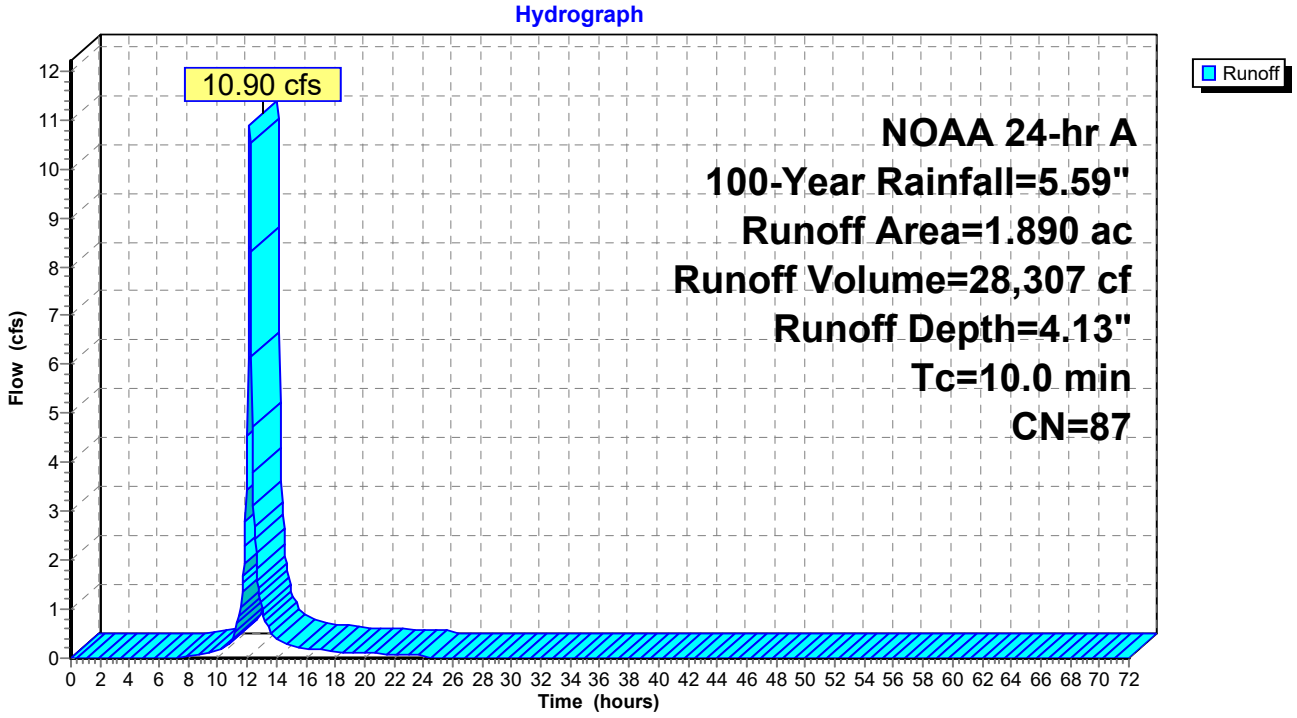
Runoff = 10.90 cfs @ 12.17 hrs, Volume= 28,307 cf, Depth= 4.13"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
1.140	80	>75% Grass cover, Good, HSG D
1.890	87	Weighted Average
1.140		60.32% Pervious Area
0.750		39.68% Impervious Area

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

Subcatchment 3S: Post New Drive

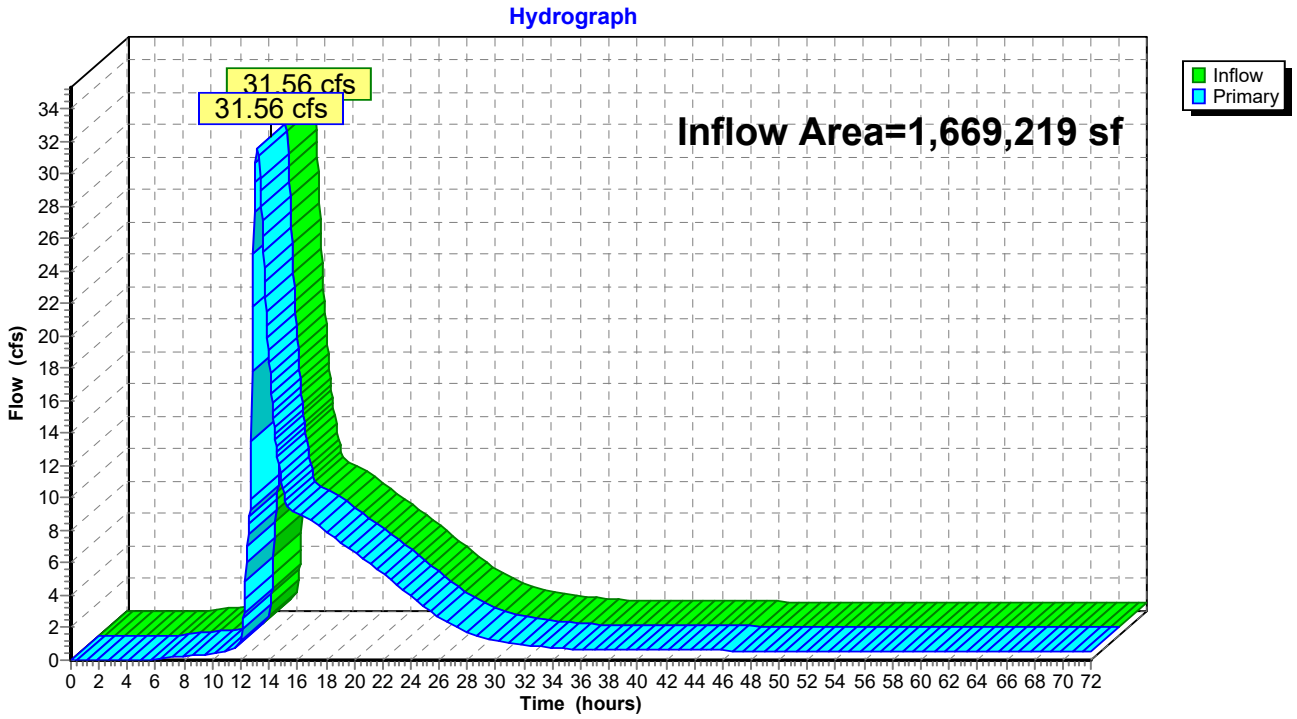


Summary for Link 4L: (new Link)

Inflow Area = 1,669,219 sf, 45.72% Impervious, Inflow Depth > 4.00" for 100-Year event
Inflow = 31.56 cfs @ 13.16 hrs, Volume= 555,997 cf
Primary = 31.56 cfs @ 13.16 hrs, Volume= 555,997 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 4L: (new Link)



Summary for Subcatchment 4S: Pre New Drive

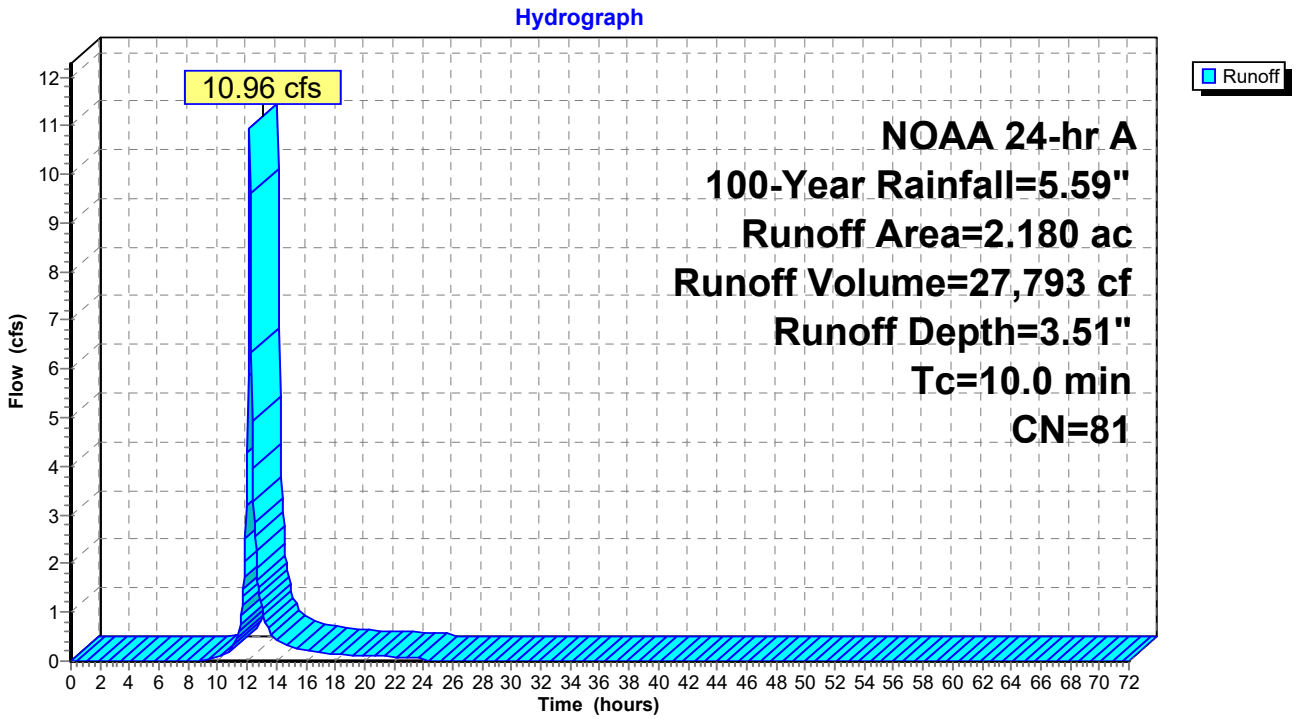
Runoff = 10.96 cfs @ 12.18 hrs, Volume= 27,793 cf, Depth= 3.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
1.030	85	Row crops, straight row, Good, HSG C
1.150	77	Woods, Good, HSG D
2.180	81	Weighted Average
2.180		100.00% Pervious Area

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

Subcatchment 4S: Pre New Drive



Summary for Pond 5P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.56 cfs @ 0.00 hrs, Volume= 94,219 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.80' Surf.Area= 68,930 sf Storage= 95,097 cf
Peak Elev= 704.80' @ 0.00 hrs Surf.Area= 68,930 sf Storage= 95,097 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

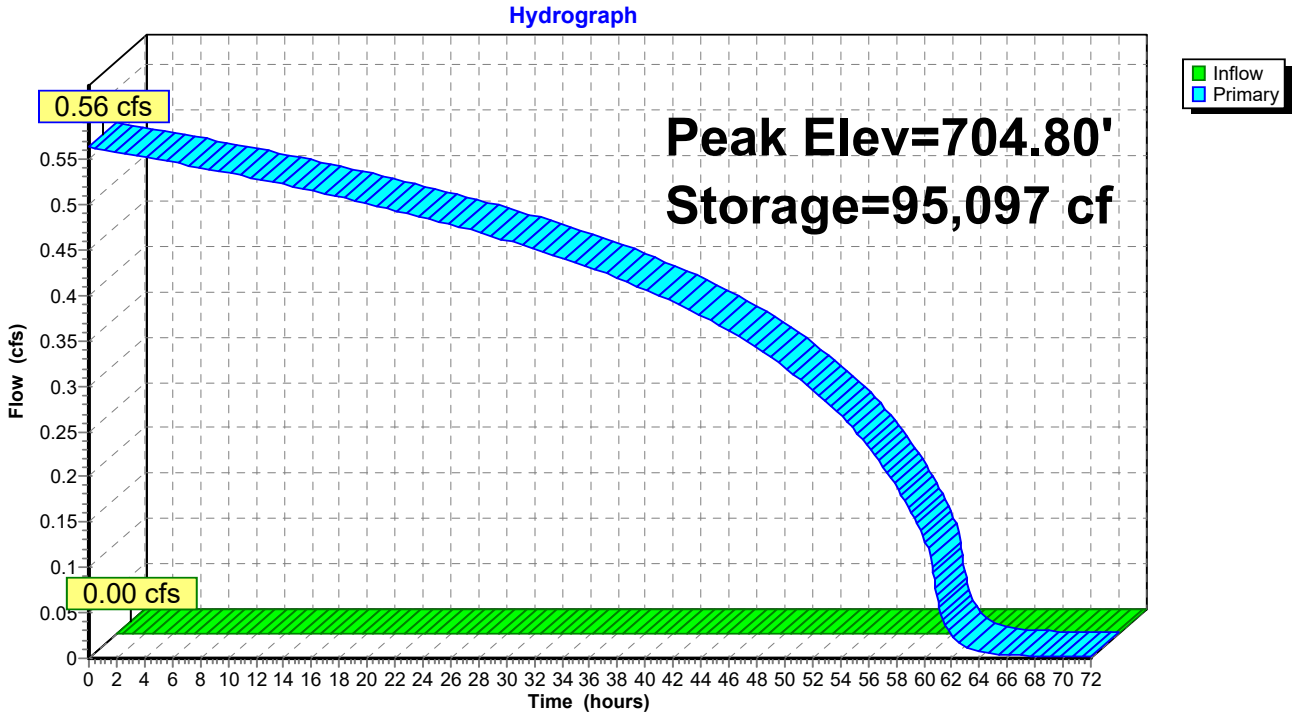
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.80'	**36.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.56 cfs @ 0.00 hrs HW=704.80' (Free Discharge)
└**1=Culvert** (Passes 0.56 cfs of 31.68 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.56 cfs @ 8.44 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 5P: Pond High School



Stage-Discharge for Pond 5P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.44	706.20	10.14	708.80	57.02
701.05	0.00	703.65	0.45	706.25	10.69	708.85	57.26
701.10	0.00	703.70	0.45	706.30	11.23	708.90	57.51
701.15	0.00	703.75	0.46	706.35	11.77	708.95	57.75
701.20	0.00	703.80	0.46	706.40	12.30	709.00	**57.99**
701.25	0.00	703.85	0.47	706.45	12.82		
701.30	0.00	703.90	0.47	706.50	13.34		
701.35	0.00	703.95	0.48	706.55	13.84		
701.40	0.00	704.00	0.48	706.60	14.31		
701.45	0.00	704.05	0.49	706.65	14.77		
701.50	0.00	704.10	0.50	706.70	15.19		
701.55	0.00	704.15	0.50	706.75	15.56		
701.60	0.00	704.20	0.51	706.80	15.85		
701.65	0.00	704.25	0.51	706.85	16.23		
701.70	0.00	704.30	0.52	706.90	16.60		
701.75	0.00	704.35	0.52	706.95	16.96		
701.80	0.03	704.40	0.53	707.00	17.31		
701.85	0.10	704.45	0.53	707.05	17.65		
701.90	0.13	704.50	0.54	707.10	17.99		
701.95	0.15	704.55	0.54	707.15	18.32		
702.00	0.17	704.60	0.55	707.20	18.65		
702.05	0.18	704.65	0.55	707.25	18.97		
702.10	0.20	704.70	0.55	707.30	19.29		
702.15	0.21	704.75	0.56	707.35	19.60		
702.20	0.22	704.80	0.56	707.40	19.90		
702.25	0.23	704.85	0.58	707.45	20.20		
702.30	0.24	704.90	0.64	707.50	20.50		
702.35	0.25	704.95	0.72	707.55	20.79		
702.40	0.26	705.00	0.83	707.60	21.07		
702.45	0.27	705.05	0.97	707.65	21.36		
702.50	0.28	705.10	1.14	707.70	21.64		
702.55	0.29	705.15	1.34	707.75	21.91		
702.60	0.30	705.20	1.56	707.80	22.18		
702.65	0.31	705.25	1.81	707.85	22.88		
702.70	0.32	705.30	2.09	707.90	23.94		
702.75	0.32	705.35	2.39	707.95	25.22		
702.80	0.33	705.40	2.71	708.00	26.69		
702.85	0.34	705.45	3.05	708.05	28.31		
702.90	0.35	705.50	3.42	708.10	30.08		
702.95	0.36	705.55	3.80	708.15	31.98		
703.00	0.36	705.60	4.21	708.20	34.00		
703.05	0.37	705.65	4.63	708.25	36.13		
703.10	0.38	705.70	5.07	708.30	38.36		
703.15	0.38	705.75	5.53	708.35	40.70		
703.20	0.39	705.80	6.00	708.40	43.12		
703.25	0.40	705.85	6.48	708.45	45.64		
703.30	0.40	705.90	6.98	708.50	48.25		
703.35	0.41	705.95	7.49	708.55	50.94		
703.40	0.42	706.00	8.01	708.60	53.72		
703.45	0.42	706.05	8.53	708.65	56.28		
703.50	0.43	706.10	9.06	708.70	56.53		
703.55	0.43	706.15	9.60	708.75	56.77		

Stage-Area-Storage for Pond 5P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 5S: Pre High School

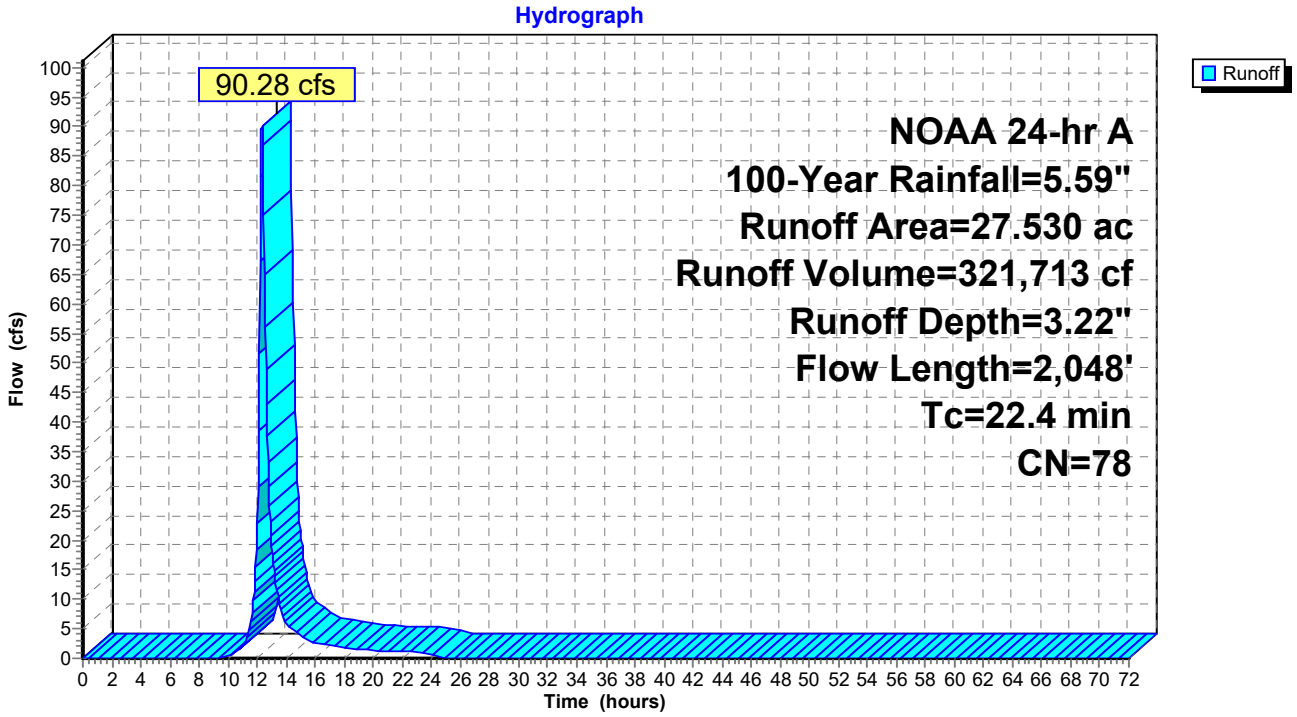
Runoff = 90.28 cfs @ 12.33 hrs, Volume= 321,713 cf, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

	Area (ac)	CN	Description
*	4.620	98	
*	22.910	74	
	27.530	78	Weighted Average
	22.910		83.22% Pervious Area
	4.620		16.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	100	0.0175	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 2.90"
4.0	389	0.0100	1.61		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.8	283	0.0275	2.67		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
3.2	402	0.0170	2.10		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
1.9	629	0.0400	5.49	120.87	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040 Riprap, 12-inch
0.6	245	0.0550	6.44	141.73	**Channel Flow, Rock Channel** Area= 22.0 sf Perim= 34.6' r= 0.64' n= 0.040
22.4	2,048	Total			

Subcatchment 5S: Pre High School



Summary for Pond 6P: Pond New Drive

Inflow	=	0.00 cfs @	0.00 hrs,	Volume=	0 cf
Outflow	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf, Atten= 0%, Lag= 0.0 min
Primary	=	0.01 cfs @	0.00 hrs,	Volume=	1,226 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 671.14' Surf.Area= 3,157 sf Storage= 1,226 cf
Peak Elev= 671.14' @ 0.00 hrs Surf.Area= 3,157 sf Storage= 1,226 cf

Plug-Flow detention time= (not calculated: no plugs found)
Center-of-Mass det. time= (not calculated: no inflow)

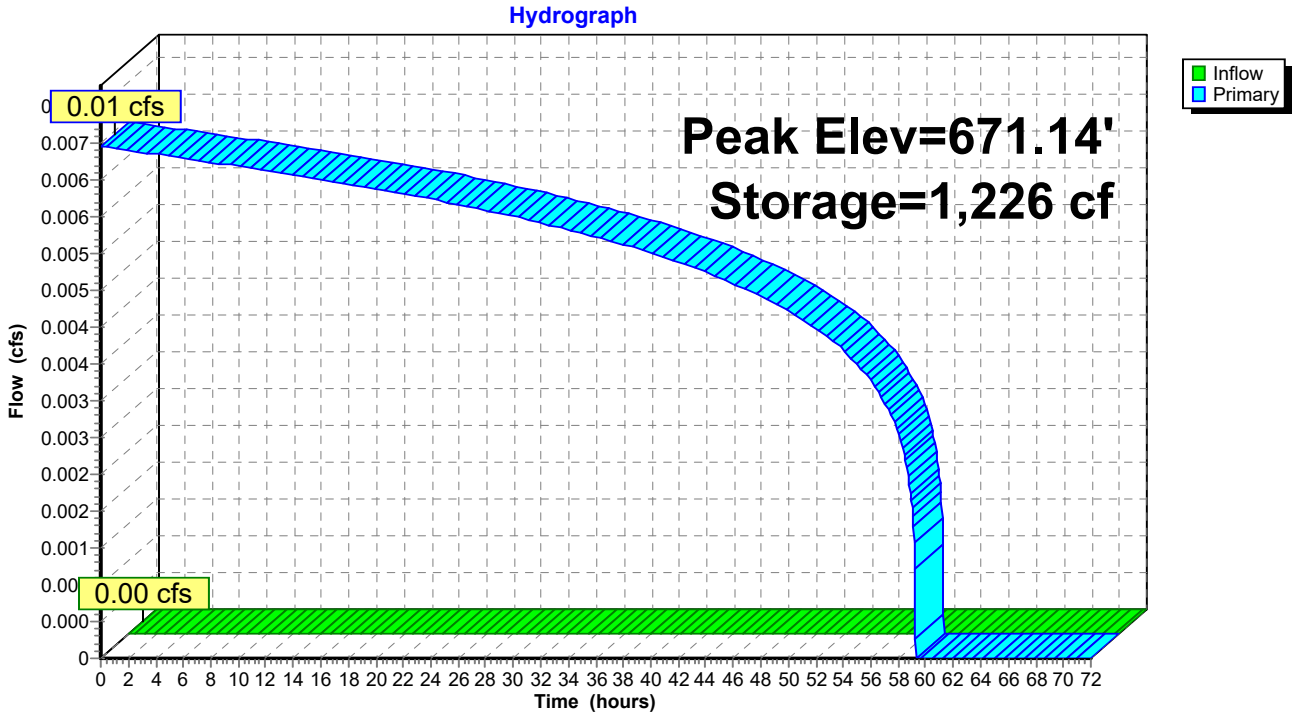
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 86.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	672.00'	**12.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	672.83'	**36.00" W x 8.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.01 cfs @ 0.00 hrs HW=671.14' (Free Discharge)
└**1=Culvert** (Passes 0.01 cfs of 6.72 cfs potential flow)
  ├**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 5.09 fps)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  └**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 6P: Pond New Drive



Stage-Discharge for Pond 6P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	0.04	673.12	4.49
670.02	0.00	671.06	0.01	672.10	0.05	673.14	4.70
670.04	0.00	671.08	0.01	672.12	0.07	673.16	4.91
670.06	0.00	671.10	0.01	672.14	0.09	673.18	5.12
670.08	0.00	671.12	0.01	672.16	0.12	673.20	5.34
670.10	0.00	671.14	0.01	672.18	0.15	673.22	5.57
670.12	0.00	671.16	0.01	672.20	0.18	673.24	5.79
670.14	0.00	671.18	0.01	672.22	0.21	673.26	6.02
670.16	0.00	671.20	0.01	672.24	0.25	673.28	6.26
670.18	0.00	671.22	0.01	672.26	0.29	673.30	6.50
670.20	0.00	671.24	0.01	672.28	0.33	673.32	6.74
670.22	0.00	671.26	0.01	672.30	0.38	673.34	6.99
670.24	0.00	671.28	0.01	672.32	0.43	673.36	7.23
670.26	0.00	671.30	0.01	672.34	0.48	673.38	7.49
670.28	0.00	671.32	0.01	672.36	0.53	673.40	7.74
670.30	0.00	671.34	0.01	672.38	0.58	673.42	8.00
670.32	0.00	671.36	0.01	672.40	0.64	673.44	8.27
670.34	0.00	671.38	0.01	672.42	0.70	673.46	8.53
670.36	0.00	671.40	0.01	672.44	0.76	673.48	8.80
670.38	0.00	671.42	0.01	672.46	0.82	673.50	9.07
670.40	0.00	671.44	0.01	672.48	0.89	673.52	9.32
670.42	0.00	671.46	0.01	672.50	0.96	673.54	9.54
670.44	0.00	671.48	0.01	672.52	1.02	673.56	9.76
670.46	0.00	671.50	0.01	672.54	1.09	673.58	9.97
670.48	0.00	671.52	0.01	672.56	1.16	673.60	10.17
670.50	0.00	671.54	0.01	672.58	1.24	673.62	10.36
670.52	0.00	671.56	0.01	672.60	1.31	673.64	10.55
670.54	0.00	671.58	0.01	672.62	1.38	673.66	10.73
670.56	0.00	671.60	0.01	672.64	1.46	673.68	10.91
670.58	0.00	671.62	0.01	672.66	1.53	673.70	11.09
670.60	0.00	671.64	0.01	672.68	1.61	673.72	11.26
670.62	0.01	671.66	0.01	672.70	1.68	673.74	11.43
670.64	0.01	671.68	0.01	672.72	1.76	673.76	11.59
670.66	0.01	671.70	0.01	672.74	1.84	673.78	11.76
670.68	0.01	671.72	0.01	672.76	1.91	673.80	11.92
670.70	0.01	671.74	0.01	672.78	1.99	673.82	12.07
670.72	0.01	671.76	0.01	672.80	2.06	673.84	12.23
670.74	0.01	671.78	0.01	672.82	2.14	673.86	12.38
670.76	0.01	671.80	0.01	672.84	2.22	673.88	12.53
670.78	0.01	671.82	0.01	672.86	2.33	673.90	12.68
670.80	0.01	671.84	0.01	672.88	2.46	673.92	12.83
670.82	0.01	671.86	0.01	672.90	2.59	673.94	12.97
670.84	0.01	671.88	0.01	672.92	2.74	673.96	13.11
670.86	0.01	671.90	0.01	672.94	2.89	673.98	13.25
670.88	0.01	671.92	0.01	672.96	3.05	674.00	**13.39**
670.90	0.01	671.94	0.01	672.98	3.21		
670.92	0.01	671.96	0.01	673.00	3.36		
670.94	0.01	671.98	0.01	673.02	3.54		
670.96	0.01	672.00	0.01	673.04	3.72		
670.98	0.01	672.02	0.01	673.06	3.90		
671.00	0.01	672.04	0.02	673.08	4.10		
671.02	0.01	672.06	0.03	673.10	4.29		

Stage-Area-Storage for Pond 6P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Subcatchment 6S: Offsite Bypass High School

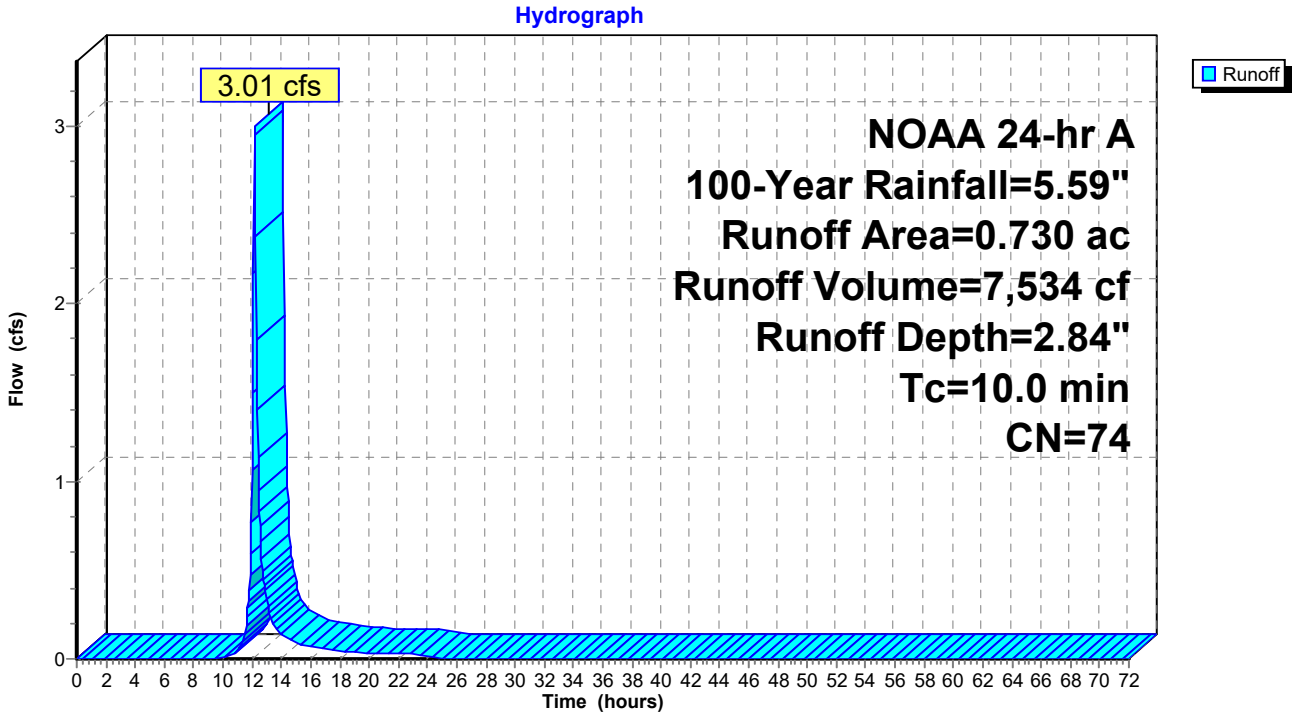
Runoff = 3.01 cfs @ 12.18 hrs, Volume= 7,534 cf, Depth= 2.84"
Routed to Pond 12P : Pond High School

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.730	74	>75% Grass cover, Good, HSG C
0.730		100.00% Pervious Area

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

Subcatchment 6S: Offsite Bypass High School



Summary for Pond 7P: Pond High School

Inflow = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Outflow = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf, Atten= 0%, Lag= 0.0 min
Primary = 0.85 cfs @ 0.00 hrs, Volume= 65,368 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Starting Elev= 704.70' Surf.Area= 65,989 sf Storage= 88,351 cf
Peak Elev= 704.70' @ 0.00 hrs Surf.Area= 65,989 sf Storage= 88,351 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
Center-of-Mass det. time= (not calculated: no inflow)

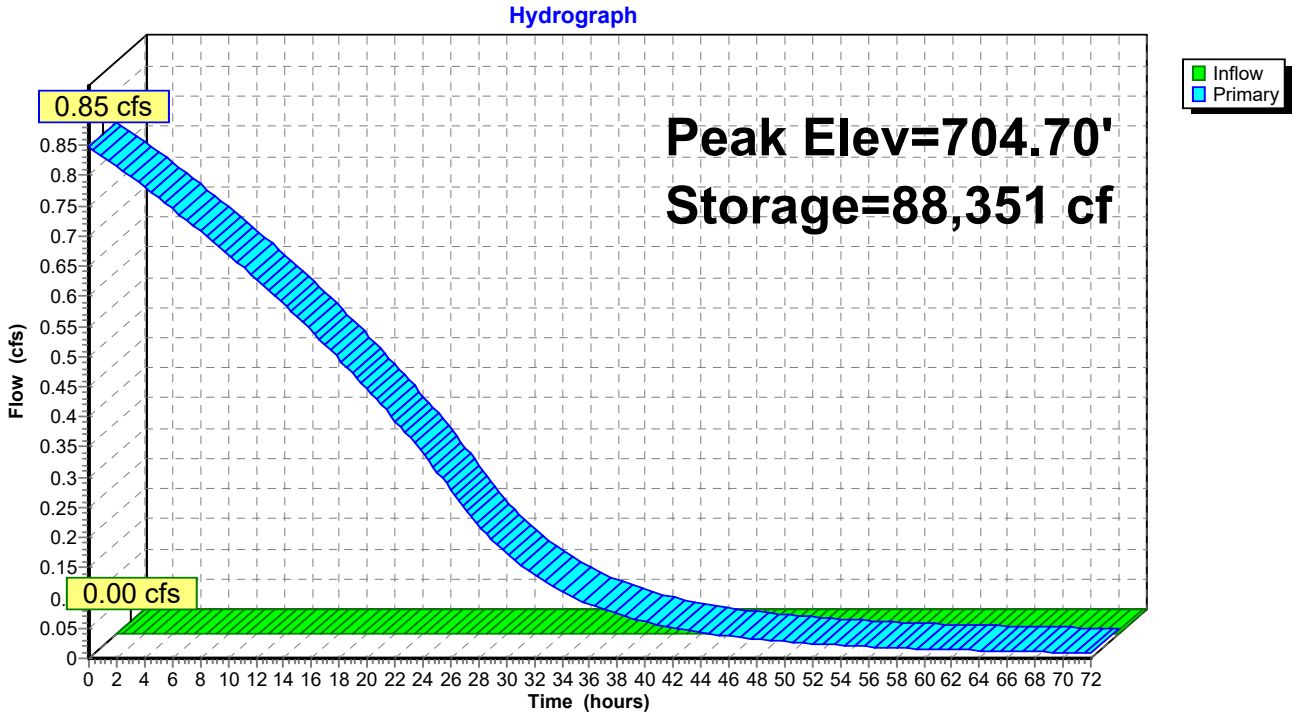
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**30.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	703.25'	**5.40" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.85 cfs @ 0.00 hrs HW=704.70' (Free Discharge)
↑—**1=Culvert** (Passes 0.85 cfs of 30.68 cfs potential flow)
↑—**2=Orifice/Grate** (Orifice Controls 0.85 cfs @ 5.33 fps)

Pond 7P: Pond High School



Stage-Discharge for Pond 7P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.27	706.20	1.26	708.80	1.77
701.05	0.00	703.65	0.32	706.25	1.28	708.85	1.78
701.10	0.00	703.70	0.36	706.30	1.29	708.90	1.78
701.15	0.00	703.75	0.40	706.35	1.30	708.95	1.79
701.20	0.00	703.80	0.44	706.40	1.31	709.00	**1.80**
701.25	0.00	703.85	0.47	706.45	1.32		
701.30	0.00	703.90	0.50	706.50	1.33		
701.35	0.00	703.95	0.53	706.55	1.34		
701.40	0.00	704.00	0.55	706.60	1.35		
701.45	0.00	704.05	0.58	706.65	1.36		
701.50	0.00	704.10	0.61	706.70	1.38		
701.55	0.00	704.15	0.63	706.75	1.39		
701.60	0.00	704.20	0.65	706.80	1.40		
701.65	0.00	704.25	0.67	706.85	1.41		
701.70	0.00	704.30	0.70	706.90	1.42		
701.75	0.00	704.35	0.72	706.95	1.43		
701.80	0.00	704.40	0.74	707.00	1.44		
701.85	0.00	704.45	0.76	707.05	1.45		
701.90	0.00	704.50	0.78	707.10	1.46		
701.95	0.00	704.55	0.79	707.15	1.47		
702.00	0.00	704.60	0.81	707.20	1.48		
702.05	0.00	704.65	0.83	707.25	1.49		
702.10	0.00	704.70	0.85	707.30	1.50		
702.15	0.00	704.75	0.86	707.35	1.51		
702.20	0.00	704.80	0.88	707.40	1.52		
702.25	0.00	704.85	0.90	707.45	1.53		
702.30	0.00	704.90	0.91	707.50	1.54		
702.35	0.00	704.95	0.93	707.55	1.55		
702.40	0.00	705.00	0.95	707.60	1.56		
702.45	0.00	705.05	0.96	707.65	1.56		
702.50	0.00	705.10	0.98	707.70	1.57		
702.55	0.00	705.15	0.99	707.75	1.58		
702.60	0.00	705.20	1.01	707.80	1.59		
702.65	0.00	705.25	1.02	707.85	1.60		
702.70	0.00	705.30	1.03	707.90	1.61		
702.75	0.00	705.35	1.05	707.95	1.62		
702.80	0.00	705.40	1.06	708.00	1.63		
702.85	0.00	705.45	1.08	708.05	1.64		
702.90	0.00	705.50	1.09	708.10	1.65		
702.95	0.00	705.55	1.10	708.15	1.66		
703.00	0.00	705.60	1.12	708.20	1.66		
703.05	0.00	705.65	1.13	708.25	1.67		
703.10	0.00	705.70	1.14	708.30	1.68		
703.15	0.00	705.75	1.16	708.35	1.69		
703.20	0.00	705.80	1.17	708.40	1.70		
703.25	0.00	705.85	1.18	708.45	1.71		
703.30	0.01	705.90	1.19	708.50	1.72		
703.35	0.03	705.95	1.20	708.55	1.73		
703.40	0.06	706.00	1.22	708.60	1.73		
703.45	0.10	706.05	1.23	708.65	1.74		
703.50	0.15	706.10	1.24	708.70	1.75		
703.55	0.21	706.15	1.25	708.75	1.76		

Stage-Area-Storage for Pond 7P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Subcatchment 7S: Offsite Bypass New Drive

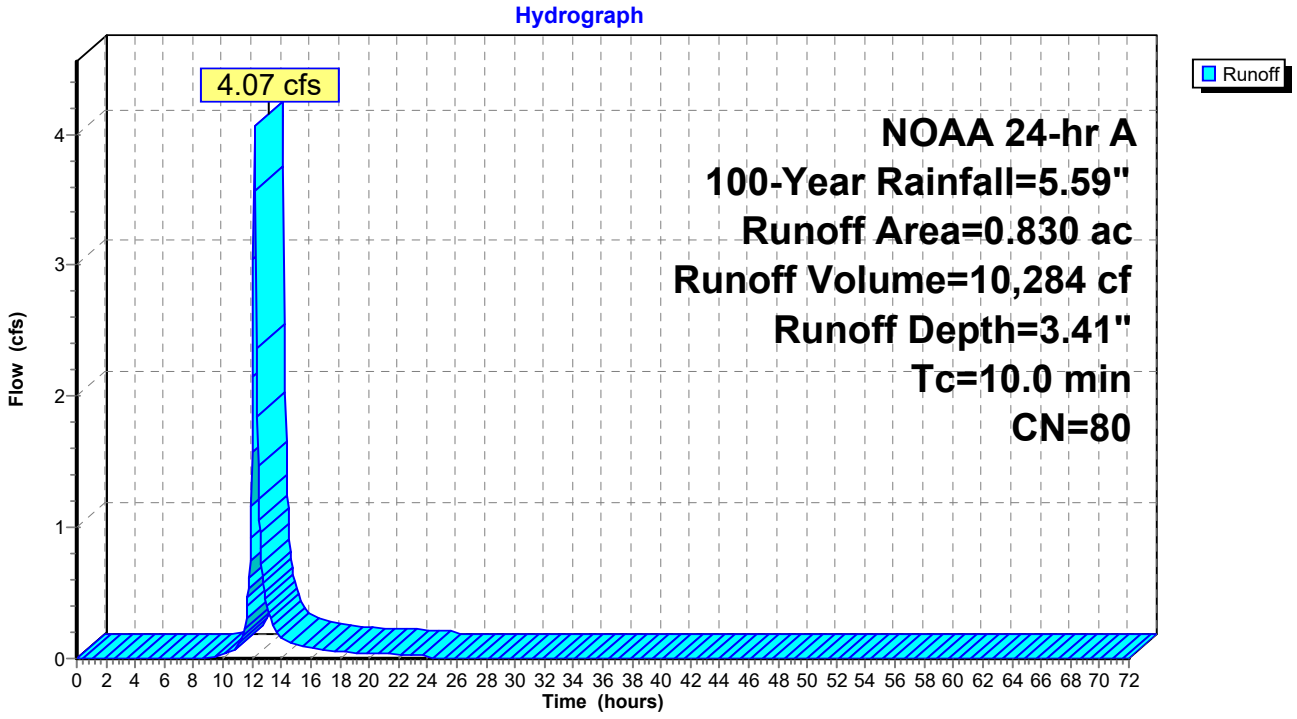
Runoff = 4.07 cfs @ 12.18 hrs, Volume= 10,284 cf, Depth= 3.41"
Routed to Pond 11P : Pond New Drive

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.320	85	Row crops, straight row, Good, HSG C
0.510	77	Woods, Poor, HSG C
0.830	80	Weighted Average
0.830		100.00% Pervious Area

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

Subcatchment 7S: Offsite Bypass New Drive



Summary for Subcatchment 8S: Uncaptured High School

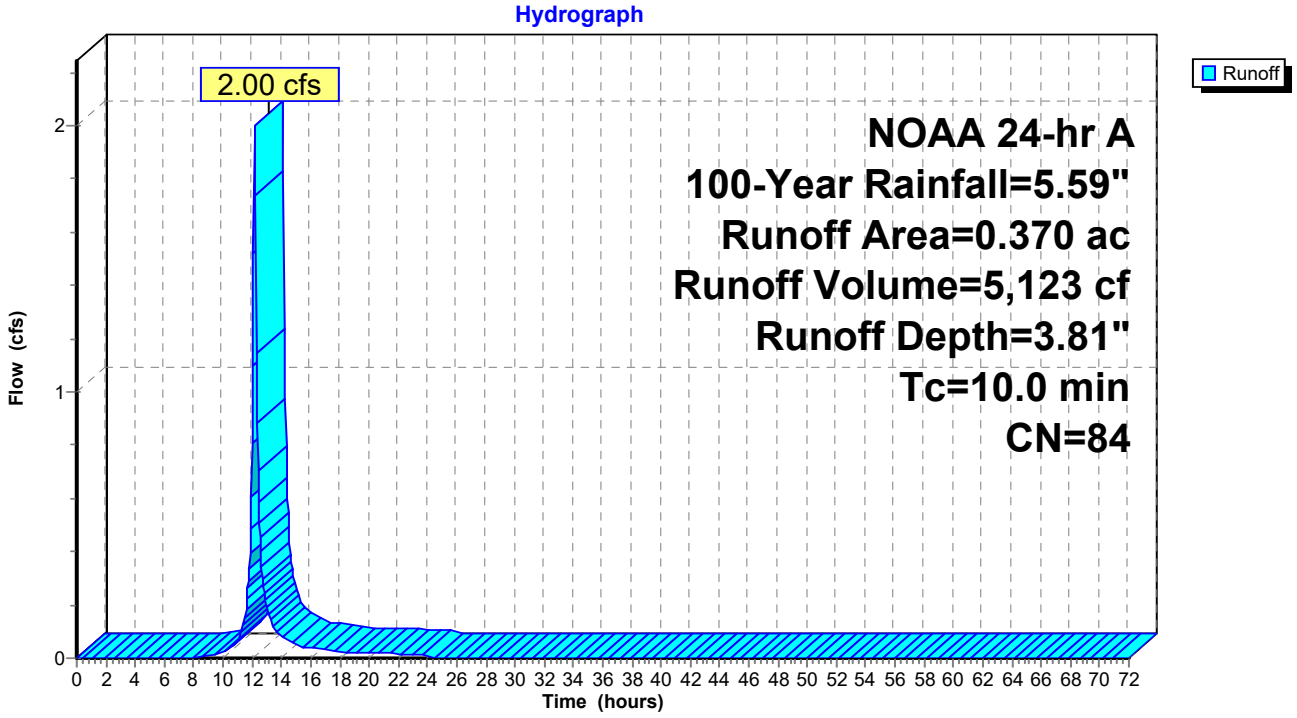
Runoff = 2.00 cfs @ 12.17 hrs, Volume= 5,123 cf, Depth= 3.81"
Routed to Link 4L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.090	98	Paved parking, HSG D
0.280	80	>75% Grass cover, Good, HSG D
0.370	84	Weighted Average
0.280		75.68% Pervious Area
0.090		24.32% Impervious Area

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

Subcatchment 8S: Uncaptured High School



Summary for Subcatchment 9S: Uncaptured New Drive

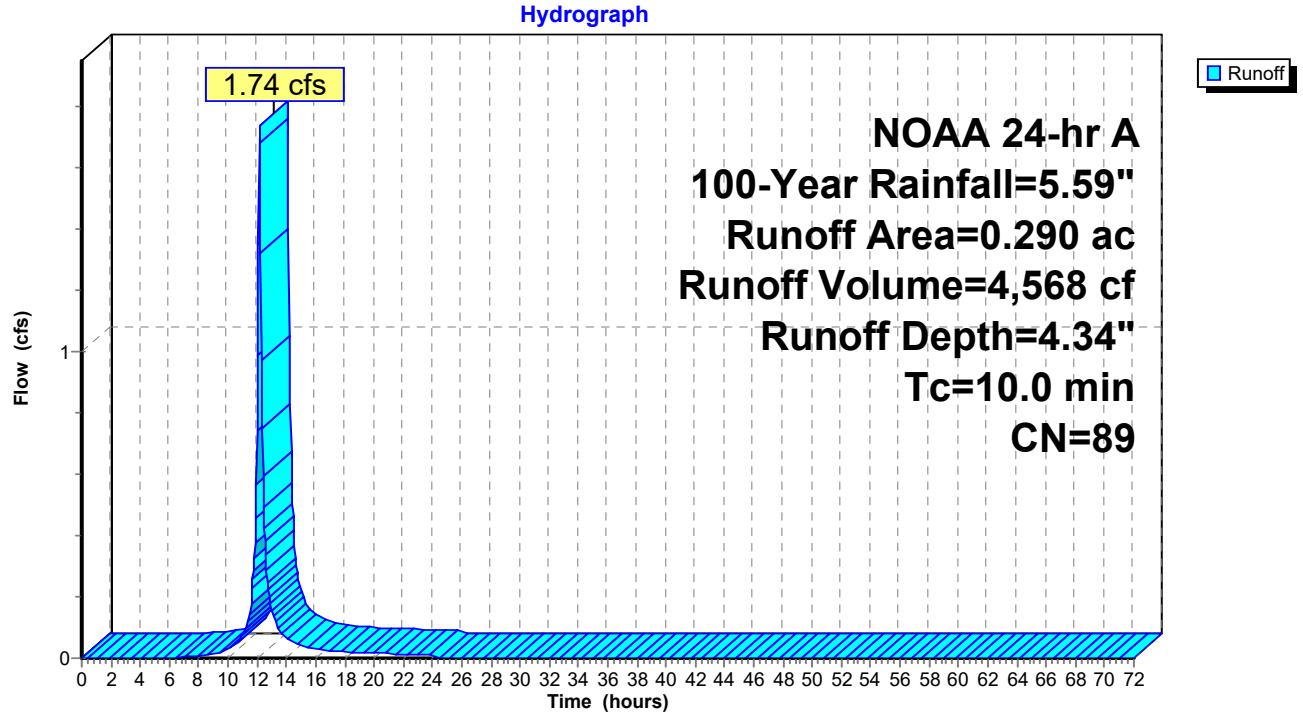
Runoff = 1.74 cfs @ 12.17 hrs, Volume= 4,568 cf, Depth= 4.34"
Routed to Link 3L : (new Link)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
0.140	98	Paved parking, HSG D
0.150	80	>75% Grass cover, Good, HSG D
0.290	89	Weighted Average
0.150		51.72% Pervious Area
0.140		48.28% Impervious Area

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

Subcatchment 9S: Uncaptured New Drive



Summary for Subcatchment 10S: Pre High School

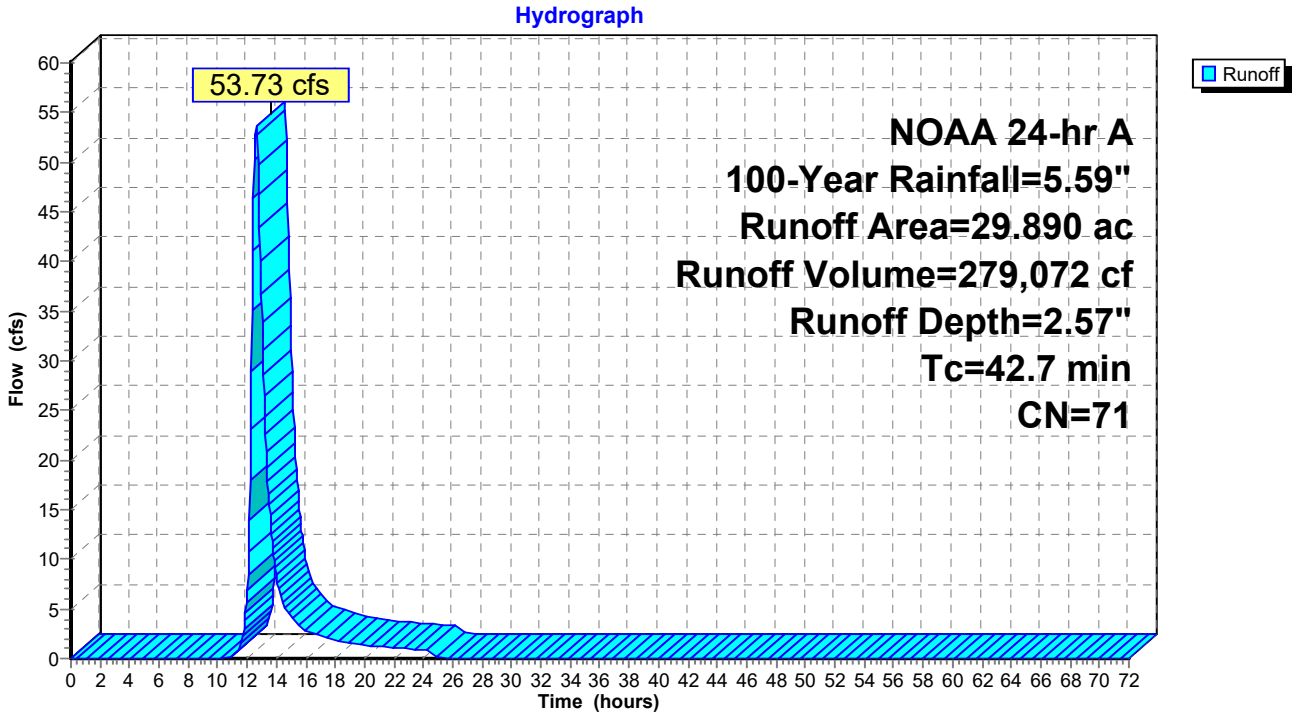
Runoff = 53.73 cfs @ 12.61 hrs, Volume= 279,072 cf, Depth= 2.57"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr A 100-Year Rainfall=5.59"

Area (ac)	CN	Description
17.180	78	Row crops, straight row, Good, HSG B
2.880	74	Farmsteads, HSG B
9.830	58	Meadow, non-grazed, HSG B
29.890	71	Weighted Average
29.890		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.7					**Direct Entry, Dave's Pre-Developed Tc**

Subcatchment 10S: Pre High School



Summary for Pond 11P: Pond New Drive

Inflow Area = 118,483 sf, 27.57% Impervious, Inflow Depth = 3.91" for 100-Year event
Inflow = 14.98 cfs @ 12.17 hrs, Volume= 38,591 cf
Outflow = 5.78 cfs @ 12.38 hrs, Volume= 38,304 cf, Atten= 61%, Lag= 12.5 min
Primary = 5.78 cfs @ 12.38 hrs, Volume= 38,304 cf
Routed to Link 3L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 672.72' @ 12.38 hrs Surf.Area= 10,833 sf Storage= 13,300 cf

Plug-Flow detention time= 104.1 min calculated for 38,304 cf (99% of inflow)
Center-of-Mass det. time= 99.4 min (891.5 - 792.2)

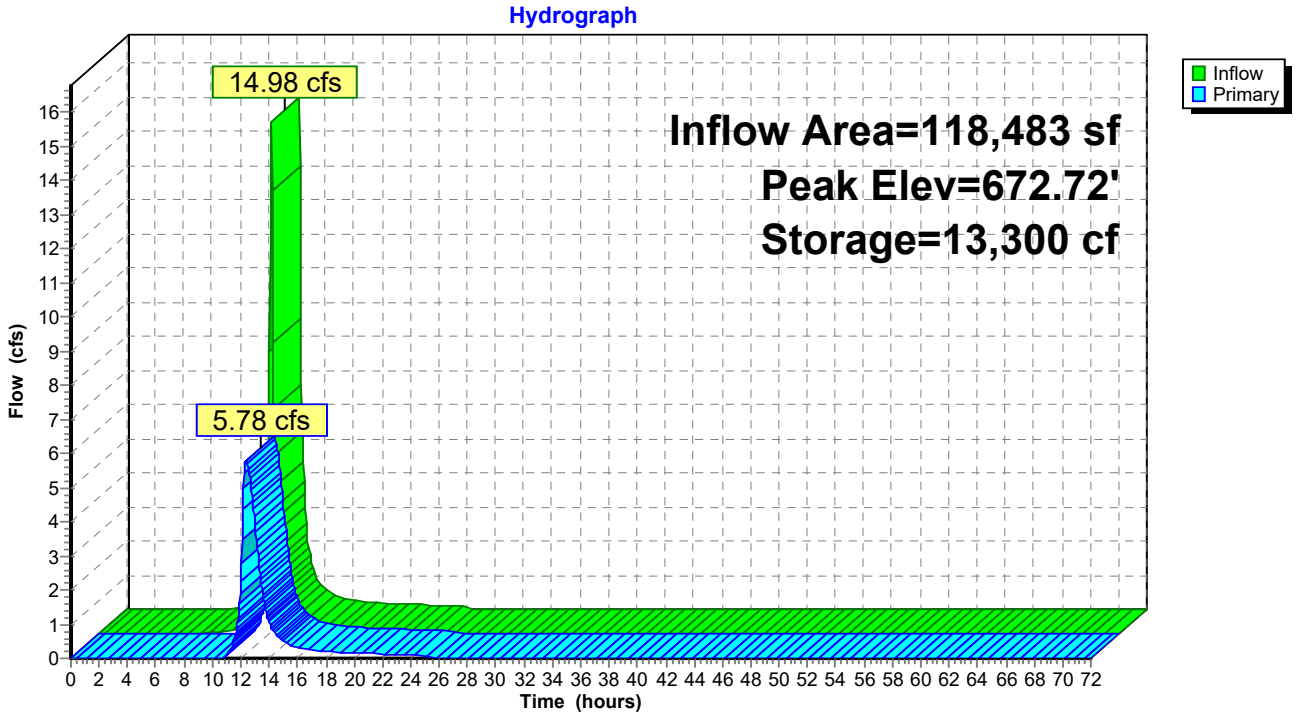
Volume	Invert	Avail.Storage	Storage Description
#1	670.00'	28,712 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
670.00	0	0	0	0
671.00	2,493	831	831	2,495
672.00	8,952	5,390	6,221	8,959
673.00	11,626	10,260	16,481	11,657
674.00	12,847	12,231	28,712	12,939

Device	Routing	Invert	Outlet Devices
#1	Primary	670.00'	**24.00" Round Culvert** L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.00' / 669.00' S= 0.0123 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	670.00'	**0.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	671.14'	**15.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=5.77 cfs @ 12.38 hrs HW=672.71' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 5.77 cfs of 19.81 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.01 cfs @ 7.90 fps)
  └─**3=Orifice/Grate** (Orifice Controls 5.76 cfs @ 4.69 fps)

Pond 11P: Pond New Drive



Stage-Discharge for Pond 11P: Pond New Drive

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
670.00	0.00	671.04	0.01	672.08	3.28	673.12	6.89
670.02	0.00	671.06	0.01	672.10	3.38	673.14	6.94
670.04	0.00	671.08	0.01	672.12	3.49	673.16	6.99
670.06	0.00	671.10	0.01	672.14	3.59	673.18	7.04
670.08	0.00	671.12	0.01	672.16	3.70	673.20	7.09
670.10	0.00	671.14	0.01	672.18	3.80	673.22	7.14
670.12	0.00	671.16	0.01	672.20	3.90	673.24	7.19
670.14	0.00	671.18	0.02	672.22	4.00	673.26	7.24
670.16	0.00	671.20	0.03	672.24	4.09	673.28	7.28
670.18	0.00	671.22	0.04	672.26	4.19	673.30	7.33
670.20	0.00	671.24	0.06	672.28	4.28	673.32	7.38
670.22	0.00	671.26	0.08	672.30	4.37	673.34	7.43
670.24	0.00	671.28	0.10	672.32	4.45	673.36	7.47
670.26	0.00	671.30	0.13	672.34	4.53	673.38	7.52
670.28	0.00	671.32	0.16	672.36	4.60	673.40	7.57
670.30	0.00	671.34	0.20	672.38	4.66	673.42	7.61
670.32	0.00	671.36	0.24	672.40	4.72	673.44	7.66
670.34	0.00	671.38	0.28	672.42	4.79	673.46	7.71
670.36	0.00	671.40	0.33	672.44	4.86	673.48	7.75
670.38	0.00	671.42	0.38	672.46	4.94	673.50	7.80
670.40	0.00	671.44	0.43	672.48	5.01	673.52	7.84
670.42	0.00	671.46	0.49	672.50	5.08	673.54	7.88
670.44	0.00	671.48	0.54	672.52	5.14	673.56	7.93
670.46	0.00	671.50	0.61	672.54	5.21	673.58	7.97
670.48	0.00	671.52	0.67	672.56	5.28	673.60	8.02
670.50	0.00	671.54	0.74	672.58	5.34	673.62	8.06
670.52	0.00	671.56	0.81	672.60	5.41	673.64	8.10
670.54	0.00	671.58	0.88	672.62	5.47	673.66	8.15
670.56	0.00	671.60	0.95	672.64	5.54	673.68	8.19
670.58	0.00	671.62	1.03	672.66	5.60	673.70	8.23
670.60	0.00	671.64	1.11	672.68	5.66	673.72	8.27
670.62	0.01	671.66	1.19	672.70	5.72	673.74	8.32
670.64	0.01	671.68	1.28	672.72	5.79	673.76	8.36
670.66	0.01	671.70	1.37	672.74	5.85	673.78	8.40
670.68	0.01	671.72	1.45	672.76	5.90	673.80	8.44
670.70	0.01	671.74	1.54	672.78	5.96	673.82	8.48
670.72	0.01	671.76	1.64	672.80	6.02	673.84	8.52
670.74	0.01	671.78	1.73	672.82	6.08	673.86	8.57
670.76	0.01	671.80	1.83	672.84	6.14	673.88	8.61
670.78	0.01	671.82	1.92	672.86	6.19	673.90	8.65
670.80	0.01	671.84	2.02	672.88	6.25	673.92	8.69
670.82	0.01	671.86	2.12	672.90	6.31	673.94	8.73
670.84	0.01	671.88	2.22	672.92	6.36	673.96	8.77
670.86	0.01	671.90	2.33	672.94	6.42	673.98	8.81
670.88	0.01	671.92	2.43	672.96	6.47	674.00	**8.85**
670.90	0.01	671.94	2.53	672.98	6.52		
670.92	0.01	671.96	2.64	673.00	6.58		
670.94	0.01	671.98	2.75	673.02	6.63		
670.96	0.01	672.00	2.85	673.04	6.68		
670.98	0.01	672.02	2.96	673.06	6.74		
671.00	0.01	672.04	3.06	673.08	6.79		
671.02	0.01	672.06	3.17	673.10	6.84		

Stage-Area-Storage for Pond 11P: Pond New Drive

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
670.00	0	0
670.05	6	0
670.10	25	1
670.15	56	3
670.20	100	7
670.25	156	13
670.30	224	22
670.35	305	36
670.40	399	53
670.45	505	76
670.50	623	104
670.55	754	138
670.60	897	179
670.65	1,053	228
670.70	1,222	285
670.75	1,402	351
670.80	1,596	425
670.85	1,801	510
670.90	2,019	606
670.95	2,250	712
671.00	2,493	831
671.05	2,721	961
671.10	2,959	1,103
671.15	3,207	1,257
671.20	3,465	1,424
671.25	3,733	1,604
671.30	4,011	1,798
671.35	4,299	2,005
671.40	4,597	2,228
671.45	4,905	2,465
671.50	5,223	2,718
671.55	5,551	2,988
671.60	5,889	3,274
671.65	6,237	3,577
671.70	6,595	3,898
671.75	6,963	4,237
671.80	7,341	4,594
671.85	7,729	4,971
671.90	8,126	5,367
671.95	8,534	5,784
672.00	8,952	6,221
672.05	9,077	6,671
672.10	9,204	7,128
672.15	9,331	7,592
672.20	9,459	8,062
672.25	9,588	8,538
672.30	9,718	9,020
672.35	9,848	9,509
672.40	9,980	10,005
672.45	10,112	10,507
672.50	10,245	11,016
672.55	10,380	11,532
672.60	10,515	12,054
672.65	10,650	12,584
672.70	10,787	13,119
672.75	10,925	13,662
672.80	11,063	14,212
672.85	11,203	14,769
672.90	11,343	15,332
672.95	11,484	15,903
673.00	11,626	16,481
673.05	11,686	17,063
673.10	11,745	17,649
673.15	11,805	18,238
673.20	11,865	18,830
673.25	11,926	19,424
673.30	11,986	20,022
673.35	12,046	20,623
673.40	12,107	21,227
673.45	12,168	21,834
673.50	12,229	22,444
673.55	12,290	23,057
673.60	12,351	23,673
673.65	12,413	24,292
673.70	12,474	24,914
673.75	12,536	25,539
673.80	12,598	26,168
673.85	12,660	26,799
673.90	12,722	27,434
673.95	12,785	28,071
674.00	**12,847**	**28,712**

Summary for Pond 12P: Pond High School

Inflow Area = 1,653,102 sf, 45.93% Impervious, Inflow Depth = 4.21" for 100-Year event
Inflow = 133.16 cfs @ 12.42 hrs, Volume= 579,310 cf
Outflow = 31.40 cfs @ 13.16 hrs, Volume= 550,874 cf, Atten= 76%, Lag= 44.2 min
Primary = 31.40 cfs @ 13.16 hrs, Volume= 550,874 cf
Routed to Link 4L : (new Link)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 707.54' @ 13.16 hrs Surf.Area= 105,788 sf Storage= 352,091 cf

Plug-Flow detention time= 589.1 min calculated for 550,492 cf (95% of inflow)
Center-of-Mass det. time= 564.3 min (1,369.6 - 805.3)

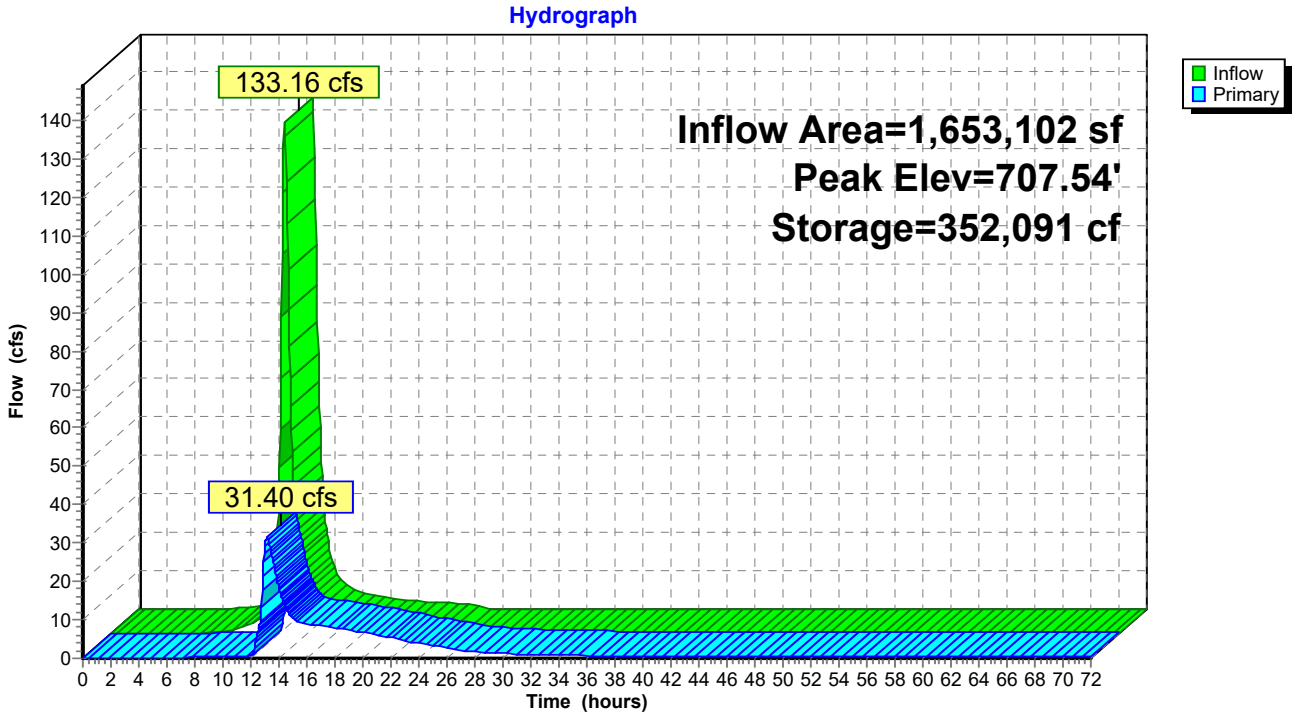
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	512,353 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	47,203	33,347	48,917	47,218
705.00	75,002	60,569	109,486	75,031
706.00	97,345	85,931	195,417	97,398
707.00	102,753	100,037	295,454	102,921
708.00	108,375	105,552	401,005	108,660
709.00	114,347	111,348	512,353	114,748

Device	Routing	Invert	Outlet Devices
#1	Primary	701.00'	**30.00" Round Culvert** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.00' / 700.00' S= 0.0116 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf
#2	Device 1	701.00'	**3.50" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.80'	**16.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.07'	**60.00" W x 12.00" H Vert. Orifice/Grate X 4.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=31.37 cfs @ 13.16 hrs HW=707.54' TW=0.00' (Dynamic Tailwater)
└─**1=Culvert** (Passes 31.37 cfs of 54.38 cfs potential flow)
  ├─**2=Orifice/Grate** (Orifice Controls 0.81 cfs @ 12.18 fps)
  ├─**3=Orifice/Grate** (Orifice Controls 9.69 cfs @ 6.94 fps)
  └─**4=Orifice/Grate** (Orifice Controls 20.87 cfs @ 2.21 fps)

Pond 12P: Pond High School



Stage-Discharge for Pond 12P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.50	706.20	6.48	708.80	60.49
701.05	0.01	703.65	0.51	706.25	6.68	708.85	60.72
701.10	0.02	703.70	0.51	706.30	6.87	708.90	60.95
701.15	0.05	703.75	0.52	706.35	7.05	708.95	61.18
701.20	0.07	703.80	0.52	706.40	7.23	709.00	**61.41**
701.25	0.10	703.85	0.53	706.45	7.41		
701.30	0.13	703.90	0.53	706.50	7.58		
701.35	0.15	703.95	0.54	706.55	7.75		
701.40	0.16	704.00	0.54	706.60	7.91		
701.45	0.18	704.05	0.55	706.65	8.07		
701.50	0.19	704.10	0.55	706.70	8.22		
701.55	0.20	704.15	0.56	706.75	8.38		
701.60	0.22	704.20	0.56	706.80	8.53		
701.65	0.23	704.25	0.57	706.85	8.68		
701.70	0.24	704.30	0.57	706.90	8.82		
701.75	0.25	704.35	0.58	706.95	8.96		
701.80	0.26	704.40	0.58	707.00	9.10		
701.85	0.27	704.45	0.58	707.05	9.24		
701.90	0.28	704.50	0.59	707.10	9.71		
701.95	0.29	704.55	0.59	707.15	10.96		
702.00	0.30	704.60	0.60	707.20	12.65		
702.05	0.31	704.65	0.60	707.25	14.68		
702.10	0.31	704.70	0.61	707.30	16.98		
702.15	0.32	704.75	0.61	707.35	19.54		
702.20	0.33	704.80	0.61	707.40	22.32		
702.25	0.34	704.85	0.63	707.45	25.31		
702.30	0.35	704.90	0.67	707.50	28.50		
702.35	0.35	704.95	0.74	707.55	31.87		
702.40	0.36	705.00	0.83	707.60	35.41		
702.45	0.37	705.05	0.94	707.65	39.11		
702.50	0.37	705.10	1.08	707.70	42.97		
702.55	0.38	705.15	1.23	707.75	46.99		
702.60	0.39	705.20	1.41	707.80	51.14		
702.65	0.39	705.25	1.60	707.85	55.44		
702.70	0.40	705.30	1.81	707.90	56.18		
702.75	0.41	705.35	2.03	707.95	56.43		
702.80	0.41	705.40	2.27	708.00	56.68		
702.85	0.42	705.45	2.52	708.05	56.92		
702.90	0.43	705.50	2.79	708.10	57.17		
702.95	0.43	705.55	3.06	708.15	57.41		
703.00	0.44	705.60	3.34	708.20	57.65		
703.05	0.44	705.65	3.63	708.25	57.89		
703.10	0.45	705.70	3.93	708.30	58.14		
703.15	0.46	705.75	4.22	708.35	58.38		
703.20	0.46	705.80	4.52	708.40	58.61		
703.25	0.47	705.85	4.81	708.45	58.85		
703.30	0.47	705.90	5.10	708.50	59.09		
703.35	0.48	705.95	5.38	708.55	59.32		
703.40	0.48	706.00	5.65	708.60	59.56		
703.45	0.49	706.05	5.89	708.65	59.79		
703.50	0.49	706.10	6.10	708.70	60.03		
703.55	0.50	706.15	6.28	708.75	60.26		

Stage-Area-Storage for Pond 12P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	23,340	17,797
703.20	25,581	20,242
703.30	27,924	22,916
703.40	30,370	25,830
703.50	32,919	28,994
703.60	35,570	32,417
703.70	38,325	36,111
703.80	41,181	40,086
703.90	44,141	44,351
704.00	47,203	48,917
704.10	49,695	53,762
704.20	52,250	58,858
704.30	54,870	64,214
704.40	57,554	69,834
704.50	60,302	75,727
704.60	63,113	81,897
704.70	65,989	88,351
704.80	68,930	95,097
704.90	71,934	102,139
705.00	75,002	109,486
705.10	77,105	117,091
705.20	79,238	124,908
705.30	81,399	132,939
705.40	83,590	141,189
705.50	85,810	149,658
705.60	88,059	158,352
705.70	90,337	167,271
705.80	92,644	176,420
705.90	94,980	185,801
706.00	97,345	195,417
706.10	97,879	205,178
706.20	98,415	214,993
706.30	98,952	224,861
706.40	99,491	234,783
706.50	100,031	244,759
706.60	100,572	254,789
706.70	101,115	264,874
706.80	101,660	275,012
706.90	102,206	285,206
707.00	102,753	295,454
707.10	103,308	305,757
707.20	103,865	316,115
707.30	104,424	326,530
707.40	104,984	337,000
707.50	105,545	347,527
707.60	106,108	358,109
707.70	106,673	368,748
707.80	107,239	379,444
707.90	107,806	390,196
708.00	108,375	401,005
708.10	108,965	411,872
708.20	109,557	422,798
708.30	110,150	433,784
708.40	110,745	444,828
708.50	111,341	455,932
708.60	111,939	467,096
708.70	112,539	478,320
708.80	113,140	489,604
708.90	113,743	500,948
709.00	**114,347**	**512,353**

Summary for Pond 13P: Pond High School

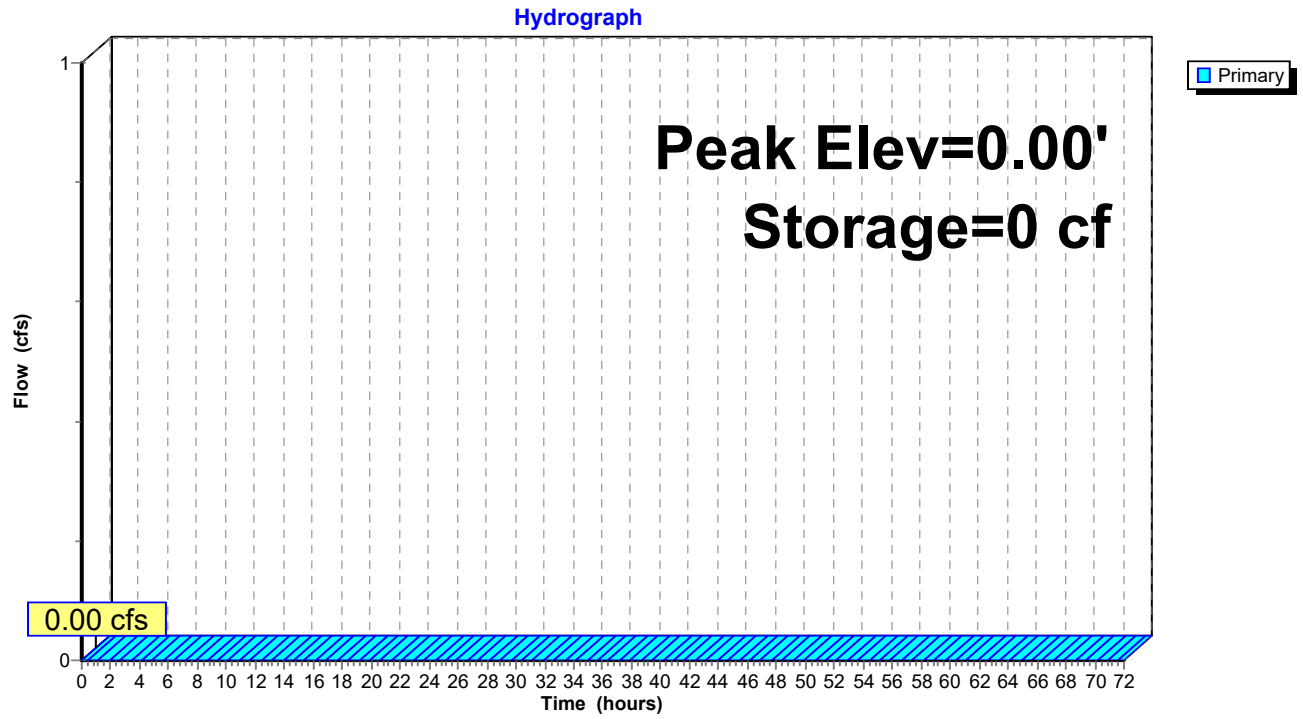
Volume	Invert	Avail.Storage	Storage Description
#1	701.00'	434,342 cf	**Custom Stage Data (Conic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
701.00	0	0	0	0
702.00	6,766	2,255	2,255	6,768
703.00	21,202	13,315	15,570	21,209
704.00	36,336	28,431	44,002	36,355
705.00	51,637	43,763	87,765	51,674
706.00	68,282	59,766	147,531	68,341
707.00	86,277	77,104	224,635	86,363
708.00	105,656	95,803	320,438	105,773
709.00	122,356	113,904	434,342	122,516

Device	Routing	Invert	Outlet Devices
#1	Primary	701.73'	**18.00" Round Culvert** L= 37.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 701.73' / 701.26' S= 0.0127 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	701.73'	**4.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	704.73'	**24.00" Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#4	Device 1	707.00'	**36.00" W x 10.00" H Vert. Orifice/Grate X 3.00** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=0.00' (Free Discharge)
└─**1=Culvert** (Controls 0.00 cfs)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  └─**4=Orifice/Grate** (Controls 0.00 cfs)

Pond 13P: Pond High School



Stage-Discharge for Pond 13P: Pond High School

Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)	Elevation (feet)	Primary (cfs)
701.00	0.00	703.60	0.55	706.20	11.09	708.80	21.39
701.05	0.00	703.65	0.56	706.25	11.63	708.85	21.48
701.10	0.00	703.70	0.56	706.30	12.17	708.90	21.56
701.15	0.00	703.75	0.57	706.35	12.70	708.95	21.64
701.20	0.00	703.80	0.58	706.40	13.22	709.00	**21.73**
701.25	0.00	703.85	0.59	706.45	13.73		
701.30	0.00	703.90	0.59	706.50	14.22		
701.35	0.00	703.95	0.60	706.55	14.69		
701.40	0.00	704.00	0.61	706.60	15.13		
701.45	0.00	704.05	0.62	706.65	15.54		
701.50	0.00	704.10	0.62	706.70	15.89		
701.55	0.00	704.15	0.63	706.75	16.20		
701.60	0.00	704.20	0.64	706.80	16.58		
701.65	0.00	704.25	0.64	706.85	16.94		
701.70	0.00	704.30	0.65	706.90	17.30		
701.75	0.00	704.35	0.66	706.95	17.65		
701.80	0.01	704.40	0.66	707.00	18.00		
701.85	0.03	704.45	0.67	707.05	18.19		
701.90	0.06	704.50	0.68	707.10	18.29		
701.95	0.10	704.55	0.68	707.15	18.39		
702.00	0.13	704.60	0.69	707.20	18.49		
702.05	0.17	704.65	0.70	707.25	18.58		
702.10	0.19	704.70	0.70	707.30	18.68		
702.15	0.21	704.75	0.71	707.35	18.78		
702.20	0.23	704.80	0.75	707.40	18.87		
702.25	0.25	704.85	0.81	707.45	18.97		
702.30	0.27	704.90	0.91	707.50	19.06		
702.35	0.28	704.95	1.03	707.55	19.16		
702.40	0.30	705.00	1.19	707.60	19.25		
702.45	0.31	705.05	1.37	707.65	19.35		
702.50	0.33	705.10	1.58	707.70	19.44		
702.55	0.34	705.15	1.82	707.75	19.53		
702.60	0.35	705.20	2.08	707.80	19.63		
702.65	0.36	705.25	2.36	707.85	19.72		
702.70	0.38	705.30	2.67	707.90	19.81		
702.75	0.39	705.35	3.00	707.95	19.90		
702.80	0.40	705.40	3.36	708.00	19.99		
702.85	0.41	705.45	3.73	708.05	20.08		
702.90	0.42	705.50	4.13	708.10	20.17		
702.95	0.43	705.55	4.54	708.15	20.26		
703.00	0.44	705.60	4.97	708.20	20.35		
703.05	0.45	705.65	5.42	708.25	20.44		
703.10	0.46	705.70	5.89	708.30	20.53		
703.15	0.47	705.75	6.36	708.35	20.62		
703.20	0.48	705.80	6.85	708.40	20.70		
703.25	0.49	705.85	7.36	708.45	20.79		
703.30	0.50	705.90	7.87	708.50	20.88		
703.35	0.51	705.95	8.39	708.55	20.96		
703.40	0.52	706.00	8.92	708.60	21.05		
703.45	0.52	706.05	9.46	708.65	21.14		
703.50	0.53	706.10	10.00	708.70	21.22		
703.55	0.54	706.15	10.54	708.75	21.31		

Stage-Area-Storage for Pond 13P: Pond High School

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
701.00	0	0
701.10	68	2
701.20	271	18
701.30	609	61
701.40	1,083	144
701.50	1,692	282
701.60	2,436	487
701.70	3,315	774
701.80	4,330	1,155
701.90	5,480	1,644
702.00	6,766	2,255
702.10	7,848	2,985
702.20	9,011	3,828
702.30	10,254	4,790
702.40	11,577	5,881
702.50	12,981	7,108
702.60	14,464	8,480
702.70	16,028	10,004
702.80	17,673	11,688
702.90	19,397	13,541
703.00	21,202	15,570
703.10	22,533	17,757
703.20	23,905	20,078
703.30	25,317	22,539
703.40	26,769	25,143
703.50	28,263	27,894
703.60	29,796	30,797
703.70	31,370	33,855
703.80	32,985	37,072
703.90	34,640	40,453
704.00	36,336	44,002
704.10	37,745	47,706
704.20	39,182	51,552
704.30	40,645	55,543
704.40	42,135	59,682
704.50	43,651	63,971
704.60	45,195	68,413
704.70	46,765	73,010
704.80	48,362	77,767
704.90	49,986	82,684
705.00	51,637	87,765
705.10	53,197	93,006
705.20	54,780	98,405
705.30	56,387	103,963
705.40	58,016	109,683
705.50	59,669	115,567
705.60	61,345	121,618
705.70	63,045	127,837
705.80	64,767	134,227
705.90	66,513	140,791
706.00	68,282	147,531
706.10	69,987	154,444
706.20	71,713	161,529
706.30	73,460	168,787
706.40	75,228	176,222
706.50	77,017	183,834
706.60	78,827	191,626
706.70	80,658	199,600
706.80	82,510	207,758
706.90	84,383	216,102
707.00	86,277	224,635
707.10	88,127	233,355
707.20	89,996	242,261
707.30	91,885	251,355
707.40	93,793	260,639
707.50	95,721	270,114
707.60	97,669	279,784
707.70	99,636	289,649
707.80	101,623	299,712
707.90	103,630	309,974
708.00	105,656	320,438
708.10	107,271	331,084
708.20	108,898	341,893
708.30	110,537	352,864
708.40	112,189	364,001
708.50	113,853	375,303
708.60	115,529	386,772
708.70	117,217	398,409
708.80	118,918	410,215
708.90	120,631	422,193
709.00	**122,356**	**434,342**

Events for Subcatchment 1S: Post High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	40.54	171,713	1.27
2-Year	2.84	53.50	226,534	1.68
5-Year	3.46	70.99	301,594	2.23
10-Year	3.94	84.68	361,179	2.67
25-Year	4.59	103.31	443,286	3.28
50-Year	5.09	117.76	507,263	3.75
100-Year	**5.59**	**132.12**	**571,775**	**4.23**

Events for Subcatchment 2S: Post High School (North Route)

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	**0.00**	**0**	**0.00**
2-Year	2.84	0.00	0	0.00
5-Year	3.46	0.00	0	0.00
10-Year	3.94	0.00	0	0.00
25-Year	4.59	0.00	0	0.00
50-Year	5.09	0.00	0	0.00
100-Year	**5.59**	0.00	0	0.00

Events for Link 3L: (new Link)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
1-Year	1.72	1.72	**0.00**
2-Year	2.63	2.63	0.00
5-Year	3.77	3.77	0.00
10-Year	4.61	4.61	0.00
25-Year	5.58	5.58	0.00
50-Year	6.17	6.17	0.00
100-Year	**6.75**	**6.75**	0.00

Events for Subcatchment 3S: Post New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	3.29	8,254	1.20
2-Year	2.84	4.37	10,978	1.60
5-Year	3.46	5.81	14,727	2.15
10-Year	3.94	6.97	17,712	2.58
25-Year	4.59	8.52	21,836	3.18
50-Year	5.09	9.71	25,056	3.65
100-Year	**5.59**	**10.90**	**28,307**	**4.13**

Events for Link 4L: (new Link)

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
1-Year	1.63	1.63	**0.00**
2-Year	3.51	3.51	0.00
5-Year	6.17	6.17	0.00
10-Year	7.66	7.66	0.00
25-Year	9.35	9.35	0.00
50-Year	19.17	19.17	0.00
100-Year	**31.56**	**31.56**	0.00

Events for Subcatchment 4S: Pre New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	2.65	6,733	0.85
2-Year	2.84	3.75	9,431	1.19
5-Year	3.46	5.29	13,265	1.68
10-Year	3.94	6.54	16,390	2.07
25-Year	4.59	8.26	20,781	2.63
50-Year	5.09	9.60	24,254	3.06
100-Year	**5.59**	**10.96**	**27,793**	**3.51**

Events for Pond 5P: Pond High School

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.56**	**704.80**	**95,097**
2-Year	0.00	0.56	704.80	95,097
5-Year	0.00	0.56	704.80	95,097
10-Year	0.00	0.56	704.80	95,097
25-Year	0.00	0.56	704.80	95,097
50-Year	0.00	0.56	704.80	95,097
100-Year	0.00	0.56	704.80	95,097

Events for Subcatchment 5S: Pre High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	18.51	70,446	0.70
2-Year	2.84	27.58	101,567	1.02
5-Year	3.46	40.62	146,607	1.47
10-Year	3.94	51.31	183,802	1.84
25-Year	4.59	66.34	236,579	2.37
50-Year	5.09	78.21	278,642	2.79
100-Year	**5.59**	**90.28**	**321,713**	**3.22**

Events for Pond 6P: Pond New Drive

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.01**	**671.14**	**1,226**
2-Year	0.00	0.01	671.14	1,226
5-Year	0.00	0.01	671.14	1,226
10-Year	0.00	0.01	671.14	1,226
25-Year	0.00	0.01	671.14	1,226
50-Year	0.00	0.01	671.14	1,226
100-Year	0.00	0.01	671.14	1,226

Events for Subcatchment 6S: Offsite Bypass High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.51	1,422	0.54
2-Year	2.84	0.82	2,142	0.81
5-Year	3.46	1.26	3,213	1.21
10-Year	3.94	1.63	4,114	1.55
25-Year	4.59	2.16	5,411	2.04
50-Year	5.09	2.58	6,456	2.44
100-Year	**5.59**	**3.01**	**7,534**	**2.84**

Events for Pond 7P: Pond High School

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.85**	**704.70**	**88,351**
2-Year	0.00	0.85	704.70	88,351
5-Year	0.00	0.85	704.70	88,351
10-Year	0.00	0.85	704.70	88,351
25-Year	0.00	0.85	704.70	88,351
50-Year	0.00	0.85	704.70	88,351
100-Year	0.00	0.85	704.70	88,351

Events for Subcatchment 7S: Offsite Bypass New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.94	2,411	0.80
2-Year	2.84	1.35	3,409	1.13
5-Year	3.46	1.93	4,835	1.60
10-Year	3.94	2.40	6,002	1.99
25-Year	4.59	3.04	7,648	2.54
50-Year	5.09	3.55	8,953	2.97
100-Year	**5.59**	**4.07**	**10,284**	**3.41**

Events for Subcatchment 8S: Uncaptured High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.54	1,365	1.02
2-Year	2.84	0.74	1,861	1.39
5-Year	3.46	1.02	2,555	1.90
10-Year	3.94	1.23	3,114	2.32
25-Year	4.59	1.53	3,892	2.90
50-Year	5.09	1.77	4,503	3.35
100-Year	**5.59**	**2.00**	**5,123**	**3.81**

Events for Subcatchment 9S: Uncaptured New Drive

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	0.56	1,412	1.34
2-Year	2.84	0.73	1,848	1.76
5-Year	3.46	0.96	2,443	2.32
10-Year	3.94	1.13	2,913	2.77
25-Year	4.59	1.37	3,559	3.38
50-Year	5.09	1.55	4,061	3.86
100-Year	**5.59**	**1.74**	**4,568**	**4.34**

Events for Subcatchment 10S: Pre High School

Event	Rainfall (inches)	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)
1-Year	2.37	7.26	46,423	0.43
2-Year	2.84	12.38	72,710	0.67
5-Year	3.46	20.38	112,668	1.04
10-Year	3.94	27.24	146,829	1.35
25-Year	4.59	37.23	196,580	1.81
50-Year	5.09	45.35	237,048	2.18
100-Year	**5.59**	**53.73**	**279,072**	**2.57**

Events for Pond 11P: Pond New Drive

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	4.23	1.51	671.73	4,115
2-Year	5.72	2.30	671.90	5,329
5-Year	7.74	3.31	672.09	7,008
10-Year	9.34	4.04	672.23	8,331
25-Year	11.56	4.80	672.42	10,219
50-Year	13.27	5.31	672.57	11,742
100-Year	**14.98**	**5.78**	**672.72**	**13,300**

Events for Pond 12P: Pond High School

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	40.75	1.61	705.25	129,225
2-Year	53.82	3.48	705.62	160,502
5-Year	71.45	6.13	706.11	205,957
10-Year	85.27	7.60	706.51	245,528
25-Year	104.16	9.29	707.07	302,422
50-Year	118.66	19.06	707.34	330,813
100-Year	**133.16**	**31.40**	**707.54**	**352,091**

Events for Pond 13P: Pond High School

Event	Primary (cfs)	Elevation (feet)	Storage (cubic-feet)
1-Year	**0.00**	**0.00**	**0**
2-Year	0.00	0.00	0
5-Year	0.00	0.00	0
10-Year	0.00	0.00	0
25-Year	0.00	0.00	0
50-Year	0.00	0.00	0
100-Year	0.00	0.00	0

Appendix D

Local Drainage Map

Storm Sewer Calculations

(10-yr design, 25-yr HGL check)

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO	DESCRIPTION	DATE

LOCAL DRAINAGE MAP - HIGH SCHOOL

2 OF 2

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

0 20 40 80

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

LOCAL DRAINAGE MAP - ENTRY DRIVE

1 OF 2



0 20 40 80

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

H:\Engineering\2021-2030\P-0110082\2026_DWG\0110082EMDR29.dwg, 2/26/2026 12:34:39 PM, ddoscher

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
1	301 TO HW3	300	0.000	4.838	0.0	0.10	12.0	0.00	5.01	0.00	0.00	3.76	38.03	42.17	0.013	36	41.01	0.40	746.87	746.71	5.39	0.003	749.84	750.71	0.83	1.92	751.63	749.71	
2	301 TO 300	301	0.000	4.838	0.0	0.17	11.8	0.00	5.04	0.00	0.00	3.76	31.92	47.16	0.013	36	72.20	0.50	747.23	746.87	4.54	0.002	750.12	754.46	4.23	0.84	750.71	749.97	
3	305 TO 301	305	0.468	2.271	10.0	0.89	10.9	5.41	5.22	0.40	0.19	1.51	20.86	47.16	0.013	36	344.93	0.50	748.95	747.23	3.98	0.002	750.67	756.67	4.72	4.23	754.46	750.31	
4	310 TO 305	310	0.685	0.887	10.0	0.17	10.5	5.41	5.30	0.92	0.63	0.70	3.72	6.15	0.013	12	84.37	2.99	756.19	753.67	5.41	0.011	757.01	759.19	2.00	2.00	756.67	754.49	
5	311 TO 310	311	0.202	0.202	10.0	0.50	10.0	5.41	5.41	0.35	0.07	0.07	0.38	5.04	0.013	12	113.27	2.00	758.46	756.19	1.41	0.003	758.72	760.85	1.39	2.00	759.19	757.46	
6	306 TO 305	306	0.308	0.653	10.0	0.10	10.8	5.41	5.24	0.43	0.13	0.37	14.94	41.96	0.013	24	70.60	3.44	752.38	749.95	6.52	0.007	753.75	756.88	2.50	4.72	756.67	751.32	
7	Pipe - (94)	Structure - (102)	0.000	0.000	0.0	0.73	0.2	0.00	0.00	0.00	0.00	0.00	0.00	12.80	0.013	24	131.20	0.32	754.87	754.45	0.00	0.000	754.87	757.62	0.75	0.43	756.88	754.45	
8	Pipe - (107)	Structure - (104)	0.000	0.000	0.0	0.24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	7.01	0.013	12	42.62	3.87	757.52	755.87	0.00	0.000	757.52	760.25	1.73	0.75	757.62	755.87	
9	200 TO HW2	200	0.000	6.059	0.0	0.81	14.8	0.00	4.52	0.00	0.00	3.35	15.12	15.99	0.013	24	278.19	0.50	733.48	732.09	5.02	0.004	735.22	739.47	3.99	1.83	735.92	734.09	
10	201 TO 200	201	1.405	6.059	10.0	0.23	14.6	5.41	4.55	0.35	0.49	3.35	15.24	15.99	0.013	24	80.30	0.50	733.88	733.48	5.46	0.004	735.50	738.50	2.62	3.99	739.47	735.19	
11	202 TO 201	203	0.560	4.655	10.0	0.36	14.2	5.41	4.61	0.47	0.26	2.85	13.16	14.97	0.013	18	203.36	2.03	738.01	733.88	8.10	0.015	739.37	746.25	6.74	3.12	738.50	735.12	
12	204 TO 203	205	0.365	4.095	10.0	0.40	13.8	5.41	4.68	0.52	0.19	2.59	12.11	16.60	0.013	18	244.27	2.50	744.12	738.01	7.10	0.013	745.44	749.20	3.58	6.74	746.25	739.59	
13	206 TO 205	206	0.512	3.730	10.0	0.31	13.5	5.41	4.73	0.48	0.25	2.40	11.35	12.86	0.013	18	154.31	1.50	746.43	744.12	6.72	0.011	747.72	751.00	3.07	3.58	749.20	745.64	
14	207 TO 206	207	0.417	2.171	10.0	0.54	13.0	5.41	4.82	0.52	0.22	1.18	5.70	6.46	0.013	15	191.51	1.00	748.60	746.68	5.10	0.008	749.58	756.84	6.99	3.07	751.00	748.15	
15	207B TO 207	207B	0.000	0.000	0.0	0.49	0.3	0.00	0.00	0.00	0.00	0.00	0.00	4.86	0.013	12	88.18	1.86	755.48	753.84	0.00	0.000	755.48	758.52	2.04	2.00	756.84	753.84	
16	Pipe - (112)	Structure - (110)	0.000	0.000	0.0	0.11	0.2	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	19.93	-3800.03	-1.37	755.81	0.00	0.000	-1.37	-1.00	n/a	2.37	758.52	755.81	
17	Pipe - (110)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	40.00	-1892.91	-1.35	755.81	0.00	0.000	-1.35	0.00	n/a	2.37	758.52	755.81	
18	302 TO 301A	302	1.803	2.567	10.0	0.18	10.9	5.41	5.23	0.91	1.64	2.25	11.76	16.94	0.013	18	109.57	2.60	750.08	747.23	6.92	0.012	751.39	754.25	2.67	5.73	754.46	749.76	
19	303 TO 302	303	0.195	0.763	10.0	0.36	10.5	5.41	5.30	0.46	0.09	0.61	3.23	5.04	0.013	12	147.67	2.00	753.03	750.08	4.57	0.009	753.80	756.39	2.35	3.17	754.25	751.93	
20	304 TO 303	304	0.066	0.363	10.0	0.17	10.3	5.41	5.34	0.62	0.04	0.32	1.73	5.56	0.013	12	64.45	2.44	754.96	753.39	3.75	0.006	755.52	758.21	2.25	2.00	756.39	753.97	
21	304A TO 304	304A	0.297	0.297	10.0	0.31	10.0	5.41	5.41	0.95	0.28	0.28	1.53	3.39	0.013	12	78.21	0.91	755.92	755.21	3.66	0.006	756.44	758.92	2.00	2.00	758.21	755.73	
22	208 TO 207	208	0.050	1.542	10.0	0.63	12.3	5.41	4.93	0.35	0.02	0.77	3.78	5.59	0.013	15	185.79	0.75	749.99	748.60	3.89	0.005	750.77	756.60	5.36	6.99	756.84	749.91	
23	209 TO 208	209	0.060	0.700	10.0	0.24	12.1	5.41	4.98	0.44	0.03	0.47	2.34	3.56	0.013	12	70.98	1.00	752.92	752.21	4.34	0.008	753.57	758.80	4.88	3.39	756.60	752.86	
24	209A TO 209	209A	0.206	0.206	10.0	0.10	10.0	5.41	5.41	0.95	0.20	0.20	1.06	1.99	0.013	8	35.56	2.73	756.27	755.30	3.89	0.010	756.76	758.94	2.00	2.84	758.80	755.79	
25	210 TO 209	210	0.091	0.434	10.0	0.35	11.8	5.41	5.05	0.43	0.04	0.25	1.25	2.52	0.013	12	67.45	0.50	753.26	752.92	2.05	0.002	753.89	758.72	4.46	4.88	758.80	753.82	
26	211 TO 210	211	0.000	0.343	0.0	0.54	11.2	0.00	5.16	0.00	0.00	0.21	1.08	2.52	0.013	12	100.88	0.50	753.76	753.26	2.59	0.004	754.20	759.31	4.55	4.46	758.72	753.92	
27	212 TO 211	212	0.148	0.343	10.0	0.24	11.0	5.41	5.21	0.56	0.08	0.21	1.09	2.52	0.013	12	45.51	0.50	753.99	753.76	3.09	0.005	754.45	758.12	3.13	4.55	759.31	754.22	
28	Pipe - (102)	212A	0.000	0.097	0.0	0.13	10.1	0.00	5.39	0.00	0.00	0.09	0.50	2.51	0.013	12	20.12	0.50	754.72	754.62	2.49	0.005	755.02	757.72	2.00	2.50	758.12	754.92	
29	212A TO 212	212B	0.097	0.097	10.0	0.09	10.0	5.41	5.41	0.95	0.09	0.09	0.50	2.42	0.013	8	30.03	4.02	756.26	755.05	2.86	0.007	756.59	758.93	2.00	2.00	757.72	755.39	
30	308 TO 305	308	0.000	0.263	0.0	0.33	10.1	0.00	5.39	0.00	0.00	0.25	1.35	3.87	0.013	12	87.97	1.18	754.71	753.67	3.50	0.006	755.20	757.71	2.00	2.00	756.67	754.16	
31	308A TO 308	308A	0.263	0.263	10.0	0.10	10.0	5.41	5.41	0.95	0.25	0.25	1.35	1.74	0.013	8	34.38	2.08	755.76	755.04	4.40	0.012	756.31	758.43	2.00	2.00	757.71	755.59	
32	213 TO 212	213	0.098	0.098	10.0	0.94	10.0	5.41	5.41	0.35	0.03	0.03	0.19	2.52	0.013	12	105.99	0.50	754.52	753.99	0.98	0.002	754.73	758.02	2.50	3.13	758.12	754.60	
33	207A TO 207	207A	0.212	0.212	10.0	0.57	10.0	5.41	5.41	0.95	0.20	0.20	1.09	4.26	0.013	12	153.87	1.43	756.04	753.84	3.25	0.006	756.48	758.83	1.79	2.00	756.84	754.28	
34	303A TO 303	303A	0.206	0.206	10.0	0.25	10.0	5.41	5.41	0.95	0.20	0.20	1.06	1.95	0.013	8	87.34	2.62	756.26	753.97	3.89	0.010	756.75	758.76	1.83	1.75	756.39	754.46	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 10-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
35	307A TO 307	307A	0.167	0.167	10.0	0.42	10.0	5.41	5.41	0.95	0.16	0.16	0.98	1.58	0.013	8	121.34	1.71	755.86	753.78	3.63	0.009	756.33	758.86	2.33	2.43	756.88	754.28	
36	307 TO 306	307	0.093	0.093	10.0	0.79	10.0	5.41	5.41	0.35	0.03	0.03	0.18	2.52	0.013	12	87.80	0.50	753.89	753.45	0.33	0.000	754.41	757.22	2.33	2.43	756.88	754.41	
37	309 TO 306	309	0.085	0.085	10.0	0.47	10.0	5.41	5.41	0.54	0.05	0.05	0.25	5.73	0.013	12	102.50	2.59	756.03	753.38	1.19	0.003	756.24	759.03	2.00	2.50	756.88	754.41	
38	216 TO 208	216	0.040	0.792	10.0	0.35	11.9	5.41	5.02	0.35	0.01	0.28	1.39	1.78	0.013	12	53.33	0.25	750.37	750.24	2.12	0.002	751.13	755.80	4.43	5.36	756.60	751.04	
39	217 TO 216	217	0.251	0.752	10.0	0.49	11.4	5.41	5.11	0.35	0.09	0.26	1.35	1.78	0.013	12	72.89	0.25	750.55	750.37	2.20	0.002	751.25	753.99	2.44	4.43	755.80	751.13	
40	218 TO 217	218	0.251	0.501	10.0	0.64	10.8	5.41	5.24	0.35	0.09	0.18	0.92	1.78	0.013	12	87.83	0.25	750.77	750.55	1.66	0.001	751.38	753.99	2.22	2.43	753.99	751.30	
41	219 TO 218	219	0.251	0.251	10.0	0.76	10.0	5.41	5.41	0.35	0.09	0.09	0.47	1.78	0.013	12	87.83	0.25	750.99	750.77	1.11	0.001	751.46	753.99	2.00	2.21	753.99	751.42	
42	214 TO 206	214	0.754	1.047	10.0	0.26	10.5	5.41	5.30	0.92	0.69	0.97	5.15	8.98	0.013	15	119.85	1.94	749.00	746.68	4.80	0.007	749.91	752.00	1.75	3.07	751.00	748.21	
43	215 TO 214	215	0.292	0.292	10.0	0.49	10.0	5.41	5.41	0.95	0.28	0.28	1.50	3.80	0.013	12	133.64	1.14	750.52	749.00	2.78	0.004	751.04	754.02	2.50	2.00	752.00	750.30	
44	300A TO 300	300A	0.000	0.000	0.0	0.05	0.0	0.00	0.00	0.00	0.00	0.00	6.23	9.01	0.013	12	37.22	6.40	749.25	746.87	7.93	0.031	750.45	752.50	2.25	2.84	750.71	749.31	
45	101 TO 100	101	0.168	1.202	10.0	0.14	11.6	5.41	5.08	0.70	0.12	0.85	4.30	4.57	0.013	15	34.20	0.50	673.17	673.00	3.52	0.004	674.39	676.51	2.09	0.69	674.94	674.25	
46	102 TO 101	102	0.147	0.860	10.0	0.40	11.2	5.41	5.16	0.66	0.10	0.61	3.13	8.78	0.013	12	238.42	6.07	687.65	673.17	4.47	0.009	688.40	692.15	3.50	2.34	676.51	674.34	
47	103 TO 102	103	0.107	0.563	10.0	0.36	10.8	5.41	5.23	0.66	0.07	0.41	2.16	11.37	0.013	12	238.36	10.20	713.46	689.15	4.19	0.007	714.08	716.45	1.99	2.00	692.15	689.77	
48	104 TO 103	104	0.059	0.299	10.0	0.30	10.5	5.41	5.30	0.66	0.04	0.24	1.26	12.61	0.013	12	185.58	12.53	736.71	713.46	2.60	0.004	737.19	739.71	2.00	1.99	716.45	714.30	
49	105 TO 104	105	0.140	0.241	10.0	0.19	10.3	5.41	5.34	0.74	0.10	0.20	1.06	10.32	0.013	12	94.60	8.40	744.66	736.71	2.77	0.004	745.10	748.15	2.49	2.00	739.71	737.28	
50	106 TO 105	106	0.016	0.100	10.0	0.25	10.1	5.41	5.40	0.95	0.02	0.10	0.51	3.56	0.013	12	48.82	1.00	745.15	744.66	1.82	0.003	745.45	748.15	2.00	2.49	748.15	745.24	
51	107 TO 106	107	0.084	0.084	10.0	0.08	10.0	5.41	5.41	0.95	0.08	0.08	0.43	9.98	0.013	12	29.14	7.86	747.44	745.15	2.11	0.004	747.72	750.94	2.50	2.00	748.15	745.50	
52	110 TO 103	110	0.157	0.157	10.0	0.25	10.0	5.41	5.41	0.66	0.10	0.10	0.56	3.56	0.013	12	49.00	1.00	713.95	713.46	1.32	0.001	714.36	716.45	1.50	1.99	716.45	714.35	
53	400 TO 401	400	0.000	0.000	0.0	0.15	0.0	0.00	0.00	0.00	0.00	0.00	34.41	44.10	0.013	30	86.50	1.16	701.00	700.00	7.67	0.007	702.96	703.79	0.29	0.79	703.29	702.50	
54	109 TO 102	109	0.150	0.150	10.0	0.25	10.0	5.41	5.41	0.66	0.10	0.10	0.54	3.56	0.013	12	49.35	1.00	689.64	689.15	2.58	0.005	689.95	692.14	1.50	2.00	692.15	689.46	
55	Pipe - (103)	Null Structure	0.000	0.000	0.0	0.43	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.013	12	77.21	0.65	676.50	676.00	0.00	0.000	676.50	0.00	n/a	n/a	0.00	676.00	
56	TEMP CULVERT 1	Null Structure	0.000	0.000	0.0	0.42	0.0	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.013	18	75.00	0.80	676.10	675.50	0.00	0.000	676.10	0.00	n/a	n/a	0.00	675.50	
57	TEMP CULVERT 4	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
58	Pipe - (105)	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
59	Pipe - (106)	Null Structure	0.000	0.000	0.0	0.34	0.0	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.013	12	61.67	0.81	674.50	674.00	0.00	0.000	674.50	0.00	n/a	n/a	0.00	674.00	
60	TEMP CULVERT 3	Null Structure	0.000	0.000	0.0	0.38	0.0	0.00	0.00	0.00	0.00	0.00	0.00	23.79	0.013	24	67.79	1.11	674.00	673.25	0.00	0.000	674.00	0.00	n/a	n/a	0.00	673.25	
61	108 TO 101	108	0.175	0.175	10.0	0.26	10.0	5.41	5.41	0.70	0.12	0.12	0.66	3.56	0.013	12	55.00	1.00	673.72	673.17	0.88	0.000	674.59	676.51	1.79	2.34	676.51	674.57	
62	111 TO 112	111	0.000	0.000	0.0	0.20	0.0	0.00	0.00	0.00	0.00	0.00	6.75	25.21	0.013	24	80.51	1.24	670.00	669.00	3.37	0.003	670.95	672.75	0.75	0.75	671.75	671.00	
63	Pipe - (113)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	0.00	-1.37	
64	Pipe - (111)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	-1.00	-1.37	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 10-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
1	301 TO HW3	300	0.000	4.838	0.0	0.10	11.9	0.00	5.65	0.00	0.00	3.76	40.44	42.17	0.013	36	41.01	0.40	746.87	746.71	5.72	0.004	749.86	750.71	0.83	1.92	751.63	749.71	
2	301 TO 300	301	0.000	4.838	0.0	0.17	11.8	0.00	5.68	0.00	0.00	3.76	34.34	47.16	0.013	36	72.20	0.50	747.23	746.87	4.87	0.003	750.18	754.46	4.23	0.84	750.71	750.00	
3	305 TO 301	305	0.468	2.271	10.0	0.88	10.9	6.09	5.88	0.40	0.19	1.51	21.86	47.16	0.013	36	344.93	0.50	748.95	747.23	4.00	0.002	750.77	756.67	4.72	4.23	754.46	750.40	
4	310 TO 305	310	0.685	0.887	10.0	0.17	10.5	6.09	5.97	0.92	0.63	0.70	4.19	6.15	0.013	12	84.37	2.99	756.19	753.67	5.80	0.013	757.06	759.19	2.00	2.00	756.67	754.54	
5	311 TO 310	311	0.202	0.202	10.0	0.48	10.0	6.09	6.09	0.35	0.07	0.07	0.43	5.04	0.013	12	113.27	2.00	758.46	756.19	1.48	0.003	758.74	760.85	1.39	2.00	759.19	757.57	
6	306 TO 305	306	0.308	0.653	10.0	0.10	10.8	6.09	5.90	0.43	0.13	0.37	15.18	41.96	0.013	24	70.60	3.44	752.38	749.95	6.57	0.007	753.76	756.88	2.50	4.72	756.67	751.33	
7	Pipe - (94)	Structure - (102)	0.000	0.000	0.0	0.73	0.2	0.00	0.00	0.00	0.00	0.00	0.00	12.80	0.013	24	131.20	0.32	754.87	754.45	0.00	0.000	754.87	757.62	0.75	0.43	756.88	754.45	
8	Pipe - (107)	Structure - (104)	0.000	0.000	0.0	0.24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	7.01	0.013	12	42.62	3.87	757.52	755.87	0.00	0.000	757.52	760.25	1.73	0.75	757.62	755.87	
9	200 TO HW2	200	0.000	6.059	0.0	0.80	14.7	0.00	5.12	0.00	0.00	3.35	17.12	15.99	0.013	24	278.19	0.50	733.48	732.09	5.45	0.006	735.68	739.47	3.99	1.83	735.92	734.09	
10	201 TO 200	201	1.405	6.059	10.0	0.23	14.5	6.09	5.16	0.35	0.49	3.35	17.25	15.99	0.013	24	80.30	0.50	733.88	733.48	5.49	0.006	736.14	738.50	2.62	3.99	739.47	735.68	
11	202 TO 201	203	0.560	4.655	10.0	0.35	14.1	6.09	5.22	0.47	0.26	2.85	14.89	14.97	0.013	18	203.36	2.03	738.01	733.88	8.43	0.020	739.51	746.25	6.74	3.12	738.50	735.51	
12	204 TO 203	205	0.365	4.095	10.0	0.39	13.7	6.09	5.29	0.52	0.19	2.59	13.70	16.60	0.013	18	244.27	2.50	744.12	738.01	7.92	0.016	745.49	749.20	3.58	6.74	746.25	739.68	
13	206 TO 205	206	0.512	3.730	10.0	0.31	13.4	6.09	5.35	0.48	0.25	2.40	12.84	12.86	0.013	18	154.31	1.50	746.43	744.12	7.27	0.014	747.92	751.00	3.07	3.58	749.20	745.69	
14	207 TO 206	207	0.417	2.171	10.0	0.53	12.9	6.09	5.45	0.52	0.22	1.18	6.45	6.46	0.013	15	191.51	1.00	748.60	746.68	5.25	0.010	750.22	756.84	6.99	3.07	751.00	748.31	
15	207B TO 207	207B	0.000	0.000	0.0	0.49	0.3	0.00	0.00	0.00	0.00	0.00	0.00	4.86	0.013	12	88.18	1.86	755.48	753.84	0.00	0.000	755.48	758.52	2.04	2.00	756.84	753.84	
16	Pipe - (112)	Structure - (110)	0.000	0.000	0.0	0.11	0.2	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	19.93	-3800.03	-1.37	755.81	0.00	0.000	-1.37	-1.00	n/a	2.37	758.52	755.81	
17	Pipe - (110)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.012	4	40.00	-1892.91	-1.35	755.81	0.00	0.000	-1.35	0.00	n/a	2.37	758.52	755.81	
18	302 TO 301A	302	1.803	2.567	10.0	0.17	10.8	6.09	5.89	0.91	1.64	2.25	13.25	16.94	0.013	18	109.57	2.60	750.08	747.23	7.68	0.015	751.44	754.25	2.67	5.73	754.46	749.67	
19	303 TO 302	303	0.195	0.763	10.0	0.35	10.5	6.09	5.98	0.46	0.09	0.61	3.63	5.04	0.013	12	147.67	2.00	753.03	750.08	4.98	0.011	753.84	756.39	2.35	3.17	754.25	752.07	
20	304 TO 303	304	0.066	0.363	10.0	0.17	10.3	6.09	6.02	0.62	0.04	0.32	1.94	5.56	0.013	12	64.45	2.44	754.96	753.39	3.59	0.005	755.55	758.21	2.25	2.00	756.39	754.12	
21	304A TO 304	304A	0.297	0.297	10.0	0.30	10.0	6.09	6.09	0.95	0.28	0.28	1.72	3.39	0.013	12	78.21	0.91	755.92	755.21	3.83	0.007	756.48	758.92	2.00	2.00	758.21	755.77	
22	208 TO 207	208	0.050	1.542	10.0	0.62	12.3	6.09	5.57	0.35	0.02	0.77	4.26	5.59	0.013	15	185.79	0.75	749.99	748.60	3.48	0.004	751.22	756.60	5.36	6.99	756.84	750.46	
23	209 TO 208	209	0.060	0.700	10.0	0.24	12.0	6.09	5.62	0.44	0.03	0.47	2.65	3.56	0.013	12	70.98	1.00	752.92	752.21	4.58	0.008	753.61	758.80	4.88	3.39	756.60	752.90	
24	209A TO 209	209A	0.206	0.206	10.0	0.10	10.0	6.09	6.09	0.95	0.20	0.20	1.19	1.99	0.013	8	35.56	2.73	756.27	755.30	4.12	0.011	756.78	758.94	2.00	2.84	758.80	755.81	
25	210 TO 209	210	0.091	0.434	10.0	0.34	11.7	6.09	5.70	0.43	0.04	0.25	1.42	2.52	0.013	12	67.45	0.50	753.26	752.92	2.11	0.002	753.97	758.72	4.46	4.88	758.80	753.88	
26	211 TO 210	211	0.000	0.343	0.0	0.53	11.2	0.00	5.81	0.00	0.00	0.21	1.22	2.52	0.013	12	100.88	0.50	753.76	753.26	2.64	0.004	754.24	759.31	4.55	4.46	758.72	753.99	
27	212 TO 211	212	0.148	0.343	10.0	0.24	10.9	6.09	5.87	0.56	0.08	0.21	1.23	2.52	0.013	12	45.51	0.50	753.99	753.76	3.19	0.005	754.48	758.12	3.13	4.55	759.31	754.26	
28	Pipe - (102)	212A	0.000	0.097	0.0	0.13	10.1	0.00	6.07	0.00	0.00	0.09	0.56	2.51	0.013	12	20.12	0.50	754.72	754.62	2.57	0.005	755.04	757.72	2.00	2.50	758.12	754.94	
29	212A TO 212	212B	0.097	0.097	10.0	0.09	10.0	6.09	6.09	0.95	0.09	0.09	0.56	2.42	0.013	8	30.03	4.02	756.26	755.05	2.99	0.007	756.61	758.93	2.00	2.00	757.72	755.41	
30	308 TO 305	308	0.000	0.263	0.0	0.32	10.1	0.00	6.07	0.00	0.00	0.25	1.51	3.87	0.013	12	87.97	1.18	754.71	753.67	3.65	0.006	755.23	757.71	2.00	2.00	756.67	754.19	
31	308A TO 308	308A	0.263	0.263	10.0	0.10	10.0	6.09	6.09	0.95	0.25	0.25	1.52	1.74	0.013	8	34.38	2.08	755.76	755.04	4.74	0.015	756.34	758.43	2.00	2.00	757.71	755.62	
32	213 TO 212	213	0.098	0.098	10.0	0.91	10.0	6.09	6.09	0.35	0.03	0.03	0.21	2.52	0.013	12	105.99	0.50	754.52	753.99	0.97	0.001	754.75	758.02	2.50	3.13	758.12	754.64	
33	207A TO 207	207A	0.212	0.212	10.0	0.55	10.0	6.09	6.09	0.95	0.20	0.20	1.23	4.26	0.013	12	153.87	1.43	756.04	753.84	3.38	0.006	756.51	758.83	1.79	2.00	756.84	754.31	
34	303A TO 303	303A	0.206	0.206	10.0	0.25	10.0	6.09	6.09	0.95	0.20	0.20	1.19	1.95	0.013	8	87.34	2.62	756.26	753.97	4.12	0.011	756.77	758.76	1.83	1.75	756.39	754.49	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 25-yrs.

Project File: 2026-02-25 - 029 - STM.sws

STM Sewer Report

Stormwater Studio 2026 v 3.0.0.40

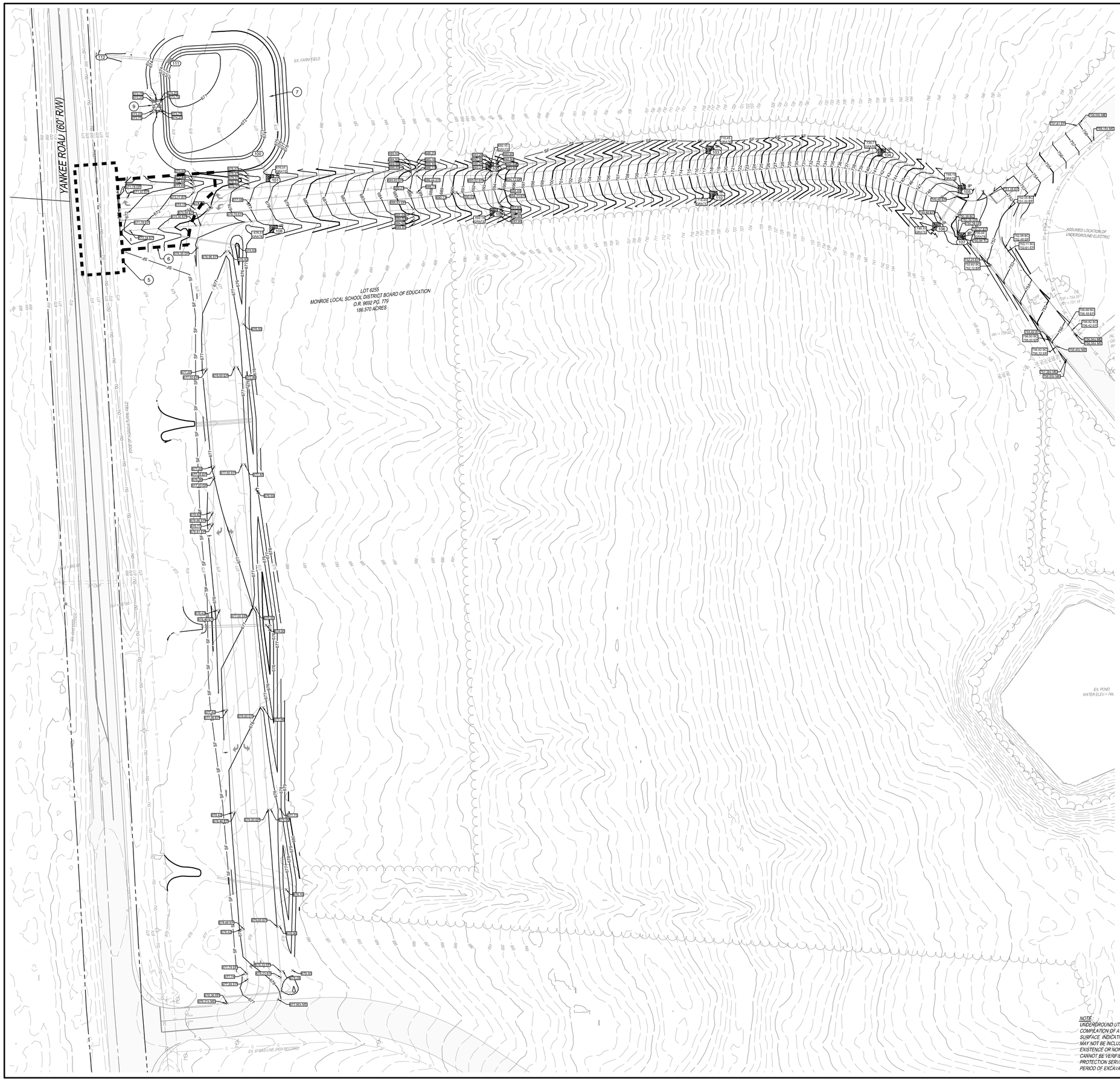
Project Name: 029-STM

02-27-2026

Line No.	Line ID	Inlet ID	Drain Area (ac)	Total Area (ac)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Inlet (in/hr)	i Syst (in/hr)	Runoff Coeff (C)	Incr CxA	Total C x A	Flow Rate (cfs)	Capac. Full (cfs)	n-value Pipe	Line Size (in)	Line Length (ft)	Line Slope (%)	Invert Up (ft)	Invert Dn (ft)	Vel Ave (ft/s)	Sf Ave (ft/ft)	HGL Up (ft)	Grnd/Rim Elev Up (ft)	Cover Up (ft)	Cover Dn (ft)	Grnd/Rim Elev Dn (ft)	HGL Dn (ft)	
35	307A TO 307	307A	0.167	0.167	10.0	0.41	10.0	6.09	6.09	0.95	0.16	0.16	1.09	1.58	0.013	8	121.34	1.71	755.86	753.78	3.93	0.010	756.35	758.86	2.33	2.43	756.88	754.28	
36	307 TO 306	307	0.093	0.093	10.0	0.77	10.0	6.09	6.09	0.35	0.03	0.03	0.20	2.52	0.013	12	87.80	0.50	753.89	753.45	0.36	0.000	754.43	757.22	2.33	2.43	756.88	754.43	
37	309 TO 306	309	0.085	0.085	10.0	0.45	10.0	6.09	6.09	0.54	0.05	0.05	0.28	5.73	0.013	12	102.50	2.59	756.03	753.38	1.24	0.003	756.25	759.03	2.00	2.50	756.88	754.43	
38	216 TO 208	216	0.040	0.792	10.0	0.35	11.9	6.09	5.66	0.35	0.01	0.28	1.57	1.78	0.013	12	53.33	0.25	750.37	750.24	2.00	0.002	751.45	755.80	4.43	5.36	756.60	751.35	
39	217 TO 216	217	0.251	0.752	10.0	0.48	11.4	6.09	5.77	0.35	0.09	0.26	1.52	1.78	0.013	12	72.89	0.25	750.55	750.37	1.93	0.002	751.55	753.99	2.44	4.43	755.80	751.46	
40	218 TO 217	218	0.251	0.501	10.0	0.62	10.8	6.09	5.91	0.35	0.09	0.18	1.04	1.78	0.013	12	87.83	0.25	750.77	750.55	1.37	0.001	751.65	753.99	2.22	2.43	753.99	751.58	
41	219 TO 218	219	0.251	0.251	10.0	0.74	10.0	6.09	6.09	0.35	0.09	0.09	0.53	1.78	0.013	12	87.83	0.25	750.99	750.77	0.82	0.000	751.69	753.99	2.00	2.21	753.99	751.67	
42	214 TO 206	214	0.754	1.047	10.0	0.26	10.5	6.09	5.97	0.92	0.69	0.97	5.80	8.98	0.013	15	119.85	1.94	749.00	746.68	5.22	0.009	749.96	752.00	1.75	3.07	751.00	748.39	
43	215 TO 214	215	0.292	0.292	10.0	0.47	10.0	6.09	6.09	0.95	0.28	0.28	1.69	3.80	0.013	12	133.64	1.14	750.52	749.00	2.98	0.004	751.07	754.02	2.50	2.00	752.00	750.40	
44	300A TO 300	300A	0.000	0.000	0.0	0.05	0.0	0.00	0.00	0.00	0.00	0.00	6.23	9.01	0.013	12	37.22	6.40	749.25	746.87	7.93	0.031	750.53	752.50	2.25	2.84	750.71	749.39	
45	101 TO 100	101	0.168	1.202	10.0	0.13	11.5	6.09	5.73	0.70	0.12	0.85	4.86	4.57	0.013	15	34.20	0.50	673.17	673.00	3.96	0.006	674.42	676.51	2.09	0.69	674.94	674.25	
46	102 TO 101	102	0.147	0.860	10.0	0.38	11.2	6.09	5.82	0.66	0.10	0.61	3.53	8.78	0.013	12	238.42	6.07	687.65	673.17	4.88	0.010	688.45	692.15	3.50	2.34	676.51	674.35	
47	103 TO 102	103	0.107	0.563	10.0	0.35	10.8	6.09	5.90	0.66	0.07	0.41	2.43	11.37	0.013	12	238.36	10.20	713.46	689.15	4.41	0.008	714.12	716.45	1.99	2.00	692.15	689.81	
48	104 TO 103	104	0.059	0.299	10.0	0.29	10.5	6.09	5.97	0.66	0.04	0.24	1.42	12.61	0.013	12	185.58	12.53	736.71	713.46	2.73	0.004	737.22	739.71	2.00	1.99	716.45	714.37	
49	105 TO 104	105	0.140	0.241	10.0	0.18	10.3	6.09	6.01	0.74	0.10	0.20	1.20	10.32	0.013	12	94.60	8.40	744.66	736.71	2.87	0.004	745.12	748.15	2.49	2.00	739.71	737.32	
50	106 TO 105	106	0.016	0.100	10.0	0.24	10.1	6.09	6.07	0.95	0.02	0.10	0.58	3.56	0.013	12	48.82	1.00	745.15	744.66	1.89	0.003	745.47	748.15	2.00	2.49	748.15	745.28	
51	107 TO 106	107	0.084	0.084	10.0	0.07	10.0	6.09	6.09	0.95	0.08	0.08	0.49	9.98	0.013	12	29.14	7.86	747.44	745.15	2.17	0.004	747.74	750.94	2.50	2.00	748.15	745.52	
52	110 TO 103	110	0.157	0.157	10.0	0.24	10.0	6.09	6.09	0.66	0.10	0.10	0.63	3.56	0.013	12	49.00	1.00	713.95	713.46	1.27	0.001	714.42	716.45	1.50	1.99	716.45	714.41	
53	400 TO 401	400	0.000	0.000	0.0	0.15	0.0	0.00	0.00	0.00	0.00	0.00	34.41	44.10	0.013	30	86.50	1.16	701.00	700.00	7.67	0.007	702.96	703.79	0.29	0.79	703.29	702.50	
54	109 TO 102	109	0.150	0.150	10.0	0.24	10.0	6.09	6.09	0.66	0.10	0.10	0.60	3.56	0.013	12	49.35	1.00	689.64	689.15	2.68	0.005	689.97	692.14	1.50	2.00	692.15	689.48	
55	Pipe - (103)	Null Structure	0.000	0.000	0.0	0.43	0.0	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.013	12	77.21	0.65	676.50	676.00	0.00	0.000	676.50	0.00	n/a	n/a	0.00	676.00	
56	TEMP CULVERT 1	Null Structure	0.000	0.000	0.0	0.42	0.0	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.013	18	75.00	0.80	676.10	675.50	0.00	0.000	676.10	0.00	n/a	n/a	0.00	675.50	
57	TEMP CULVERT 4	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
58	Pipe - (105)	Null Structure	0.000	0.000	0.0	0.33	0.0	0.00	0.00	0.00	0.00	0.00	0.00	5.89	0.013	15	60.12	0.83	675.50	675.00	0.00	0.000	675.50	0.00	n/a	n/a	0.00	675.00	
59	Pipe - (106)	Null Structure	0.000	0.000	0.0	0.34	0.0	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.013	12	61.67	0.81	674.50	674.00	0.00	0.000	674.50	0.00	n/a	n/a	0.00	674.00	
60	TEMP CULVERT 3	Null Structure	0.000	0.000	0.0	0.38	0.0	0.00	0.00	0.00	0.00	0.00	0.00	23.79	0.013	24	67.79	1.11	674.00	673.25	0.00	0.000	674.00	0.00	n/a	n/a	0.00	673.25	
61	108 TO 101	108	0.175	0.175	10.0	0.26	10.0	6.09	6.09	0.70	0.12	0.12	0.74	3.56	0.013	12	55.00	1.00	673.72	673.17	0.96	0.000	674.67	676.51	1.79	2.34	676.51	674.65	
62	111 TO 112	111	0.000	0.000	0.0	0.20	0.0	0.00	0.00	0.00	0.00	0.00	6.75	25.21	0.013	24	80.51	1.24	670.00	669.00	3.37	0.003	670.95	672.75	0.75	0.75	671.75	671.00	
63	Pipe - (113)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	0.00	-1.37	
64	Pipe - (111)	Null Structure	0.000	0.000	0.0	0.22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.012	4	40.00	0.05	-1.35	-1.37	0.00	0.000	-1.35	0.00	n/a	n/a	-1.00	-1.37	

Notes: IDF File = City of Monroe NOAA IDF Curves.idf, Return Period = 25-yrs.

Project File: 2026-02-25 - 029 - STM.sws



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

SPOT ELEVATION LEGEND

- × 1215.00 — FINISHED GRADE ELEVATION
- × 1215.00 BC — BACK OF CURB ELEVATION
- × 1215.00 EC — EDGE OF CONCRETE ELEVATION
- × 1215.00 EP — EDGE OF PAVEMENT ELEVATION
- × 1215.00 RIM — MANHOLE / CLEANOUT RIM ELEVATION
- × 1215.00 TC — STORM INLET TOP OF CASTING ELEVATION
- × 1215.00 GRATE — CATCH BASIN GRATE ELEVATION
- × 1215.00± ME — MATCH EXISTING ELEVATION
- × 1215.00 WT — TOP OF WALL ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 SC-502)
- IP — INLET PROTECTION (2 SC-502, 3 SC-502)
- CONSTRUCTION ENTRANCE (4 SC-502)
- SF — SILT FENCE (5 SC-502)
- TP — TREE PROTECTION (6 SC-502)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 SC-501)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 SC-501)

0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING | www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb/27/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

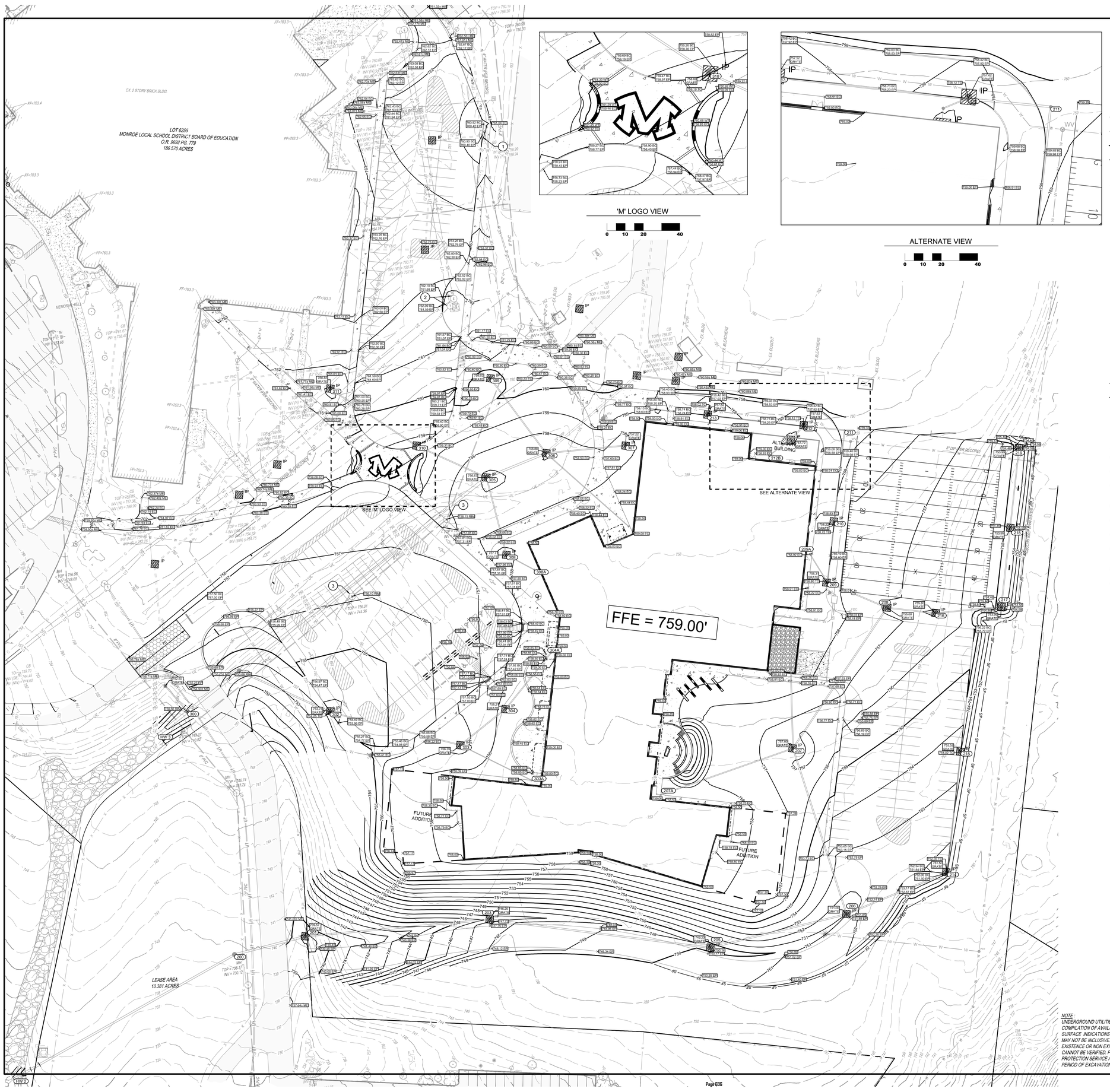
REV NO △	DESCRIPTION	DATE

STORMWATER POLLUTION PREVENTION PLAN

1 OF 6

H:\Engineering\2021-2030\P2102852\02N_CIVIL_Sheets_Q\WRP\P2102852SDSH03 - SWPPP.dwg, 3/3/2026 8:21:44 AM, bbuchur


EX. 2 STORY BRICK
MONROE LOCAL S
MEMORIAL BELL
EX. POND
W ELEV = 744.7 +/-
EX. SHED
ASSUMED LOCATION OF UNDERGROUND ELECTRIC AND TELEPHONE
INLET GRATE = 757.30 INV = 753.00
INLET GRATE = 754.95 INV = 749.75
INLET GRATE = 753.48 INV = 750.49
INLET GRATE = 754.38 INV = 748.88
INLET GRATE = 754.43 INV = 748.68
INLET GRATE = 750.22 INV = 747.02
INLET GRATE = 749.10 INV = 746.10
INLET GRATE = 747.70 INV = 744.60
CB TOP = 760.80 INV = 756.55
CB TOP = 758.27 INV (W) = 754.71 INV (SE) = 753.82
CB TOP = 755.97 INV (NW) = 751.57 INV (SW) = 752.02 INV (SE) = 751.57
CB TOP = 757.58 INV (NW) = 753.62 INV (SW) = 753.62
CB TOP = 756.44 INV (NW) = 750.94 INV (NE) = 750.94 INV (SE) = 749.84
CB TOP = 756.31 INV = 753.21
CB TOP = 755.23 INV (E) = 751.73 INV (NW) = 751.63 INV (SW) = 751.63
CB TOP = 754.28 INV (NW) = 745.28 INV (SW) = 745.28 INV (NE) = 746.18 INV (SE) = 745.68
CB TOP = 750.59 INV (NW) = 745.34 INV (SW) = 745.09 INV (SE) = 744.99
CB TOP = 749.70 INV (SE) = 744.60 INV (NW) = 744.60
CB TOP = 761.67 INV = 756.47
CB TOP = 752.56 INV (N) = 751.36 INV (W) = 756.96
CB TOP = 752.56 INV (E) = 750.46 INV (W) = 750.26
MH TOP = 756.58 INV = 748.68
MH TOP = 762.05 INV = 758.05
MH TOP = 12.18 INV = 7.68
12" CPP
15" CPP
18" CPP
24" CPP
30" CPP
8" PVC
8" DIP
6" DIP
12" DIP
10" PVC
FF=763.4
FF=763.3
FF=763.3
FF=763.3



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

SPOT ELEVATION LEGEND

- 1215.00 — FINISHED GRADE ELEVATION
- 1215.00 BC — BACK OF CURB ELEVATION
- 1215.00 EC — EDGE OF CONCRETE ELEVATION
- 1215.00 EP — EDGE OF PAVEMENT ELEVATION
- 1215.00 RIM — MANHOLE / CLEANOUT RIM ELEVATION
- 1215.00 TC — STORM INLET TOP OF CASTING ELEVATION
- 1215.00 GRATE — CATCH BASIN GRATE ELEVATION
- 1215.00± ME — MATCH EXISTING ELEVATION
- 1215.00 WT — TOP OF WALL ELEVATION

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 C-507)
- IP — INLET PROTECTION (2 C-507, 3 C-507)
- CONSTRUCTION ENTRANCE (4 C-507)
- SF — SILT FENCE (5 C-507)
- TP — TREE PROTECTION (6 C-507)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 C-507)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 C-507)

0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
38008
REGISTERED
PROFESSIONAL ENGINEER
02/27/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

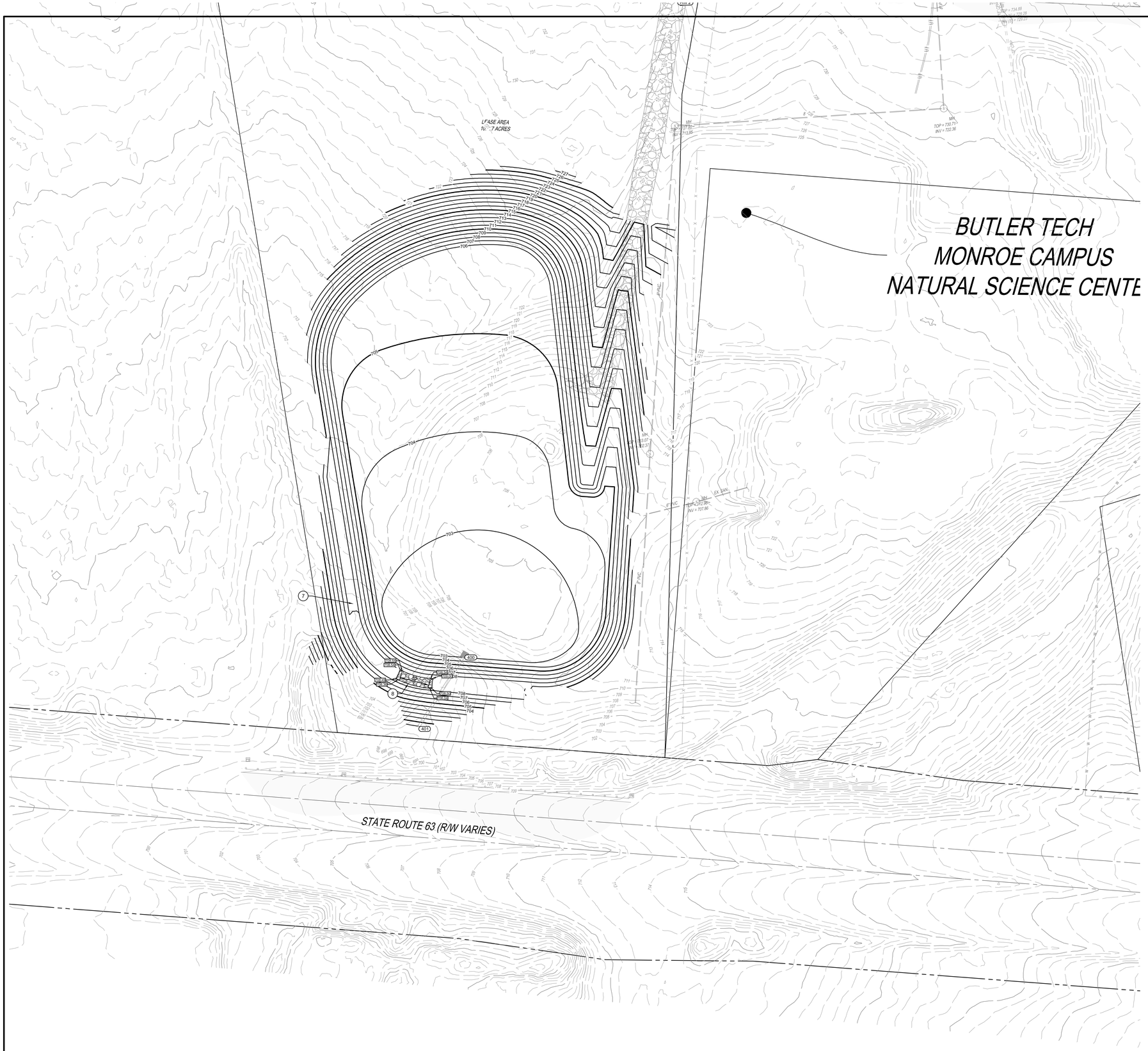
PROJECT ISSUE DATE: 2/27/2026

REV NO △	DESCRIPTION	DATE

STORMWATER POLLUTION PREVENTION PLAN

3 OF 6

I:\Engineering\2021-2029\2021\222101.02\PLOT\Sheets_SWPPP\222101CCD0001 - SWPP.dwg, 2/27/2026 8:14:25 AM, bbuchur



GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR

PROPOSED EROSION CONTROL LEGEND

- CWO — CONCRETE WASHOUT (1 C-507)
- IP — INLET PROTECTION (2 C-507, 3 C-507)
- CONSTRUCTION ENTRANCE (4 C-507)
- SF — SILT FENCE (5 C-507)
- TP — TREE PROTECTION (6 C-507)
- ODOT TYPE C ROCK CHANNEL PROTECTION

CODED NOTES

1. ADJUST EXISTING CATCH BASIN ELEVATION. SEE SPOTS FOR NEW ELEVATIONS.
2. ADJUST RIM ELEVATIONS OF EXISTING TELECOM AND ELECTRIC MANHOLES.
3. ADJUST MANHOLE RIM ELEVATION OF EXISTING SANITARY SEWER. SEE SPOTS FOR NEW ELEVATIONS.
4. NOT USED
5. YANKEE ROAD IMPROVEMENT SCOPE. NOT IN CONTRACT.
6. FINAL GRADES TO BE COMPLETED AT REMOVAL OF TEMPORARY DRIVE CONNECTION.
7. MINIMUM 10' WIDE TOP OF BERM. NORTH DETENTION BASIN TOP OF BERM = 704.25'. SOUTH DETENTION BASIN TOP OF BERM = 709.00'
8. EMERGENCY SPILLWAY FOR SOUTH BASIN (12 C-507)
9. EMERGENCY SPILLWAY FOR NORTH BASIN (14 C-507)

0 20 40 80

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

THE KLEINGERS GROUP

CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE

www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
6/1/2026

DRAWN BY:

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 2/27/2026

REV. NO △	DESCRIPTION	DATE

STORMWATER POLLUTION PREVENTION PLAN

4 OF 6

I:\Engineering\2021\2021002\2025_DWG_Sheets_SWPPP\2021002C2025_SWPP.dwg, 3/2/2026 8:51:53 AM, bbuchur

PROJECT DATA

PROJECT DESCRIPTION
NEW 9-12 SCHOOL WITH PARKING AND PRACTICE FIELD
NEW DRIVE OFF YANKEE ROAD

LATITUDE:	N 39°26'52.30"
LONGITUDE:	W 84°22'52.60"
ESTIMATED CONSTRUCTION DATES:	FEBRUARY 2026 - AUGUST 2028
TOTAL SITE AREA:	186.57 ACRES
TOTAL DISTURBED AREA:	19.86 ACRES
EXISTING IMPERVIOUS AREA:	19.21 ACRES
PROPOSED IMPERVIOUS AREA:	8.86 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	26.09 ACRES
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C= 0.41
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C= 0.43
IMMEDIATE RECEIVING WATER/MS4:	TRIBUTARY TO DICKS CREEK
ULTIMATE RECEIVING STREAM:	GREAT MIAMI RIVER
EXISTING LAND USE:	MULTI-USE GRASS PRACTICE FIELDS
SOILS (HIGH SCHOOL):	RIUB - RUSSELL-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES RwB2 - RUSSELL-MIAMIAN SILT LOAMS, BEDROCK SUBSTRATUM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED RwUB2 - RUSSELL-MIAMIAN, BEDROCK SUBSTRATUM-URBAN LAND COMPLEX, TO 2 TO 6 PERCENT SLOPES, MODERATELY ERODED XfUB - XENIA, BEDROCK RUBSTRATUM-URBAN LAND COMPLEX, 2 TO 6 PERCENT SLOPES
SOILS (NEW DRIVE):	EcE2 - EDEN SILTY CLAY LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED UnB - UNIONTOWN SILT LOAM, 2 TO 6 PERCENT SLOPES WeB - WEA SILT LOAM, 2 TO 6 PERCENT SLOPES WyC2 - WYNN SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT	_____	
PROJECT ENGINEER	_____	

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

_____ _____

_____ _____

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC, OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) SYNTHETIC BINDERS-FOR STRAW MULCH. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			•	•	•	*	*	*	•	•		
DORMANT SEEDING	•	•	•							•	•	•
TEMPORARY SEEDING			•	•	•	*	*	*	•	•		
SODDING			**	**	**	**	**	**	**			
MULCHING	•	•	•	•	•	•	•	•	•	•	•	•

* IRRIGATION NEEDED

** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

PERMITTEE
NAME
ADDRESS1
ADDRESS2
PHONE:
FAX:
CONTACT:
EMAIL:

GENERAL PERMIT: OHC000006

NPDES PERMIT: _____

DATE OF ISSUE: _____

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE, A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

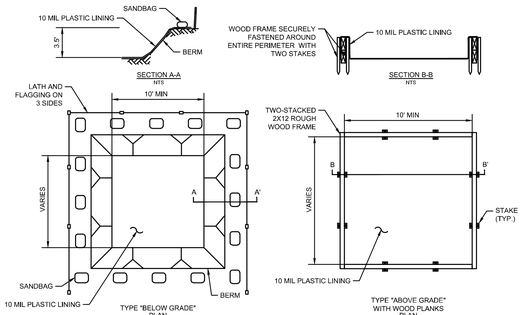
NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

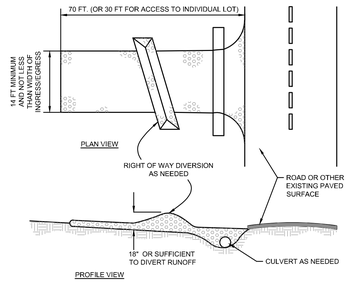
ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West



NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

1 C-502 CONCRETE WASHOUT DETAIL
N.T.S.



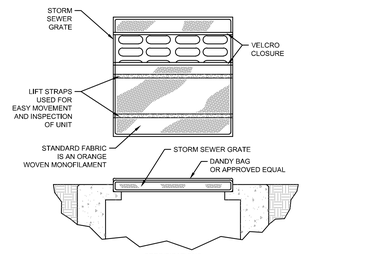
NOTES

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	$1X10^{-2}$ CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

4 C-502 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



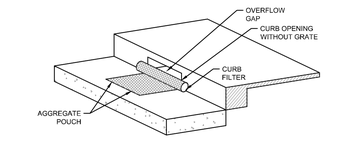
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC-1	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HAVING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

2 C-502 DANDY BAG DETAIL
N.T.S.



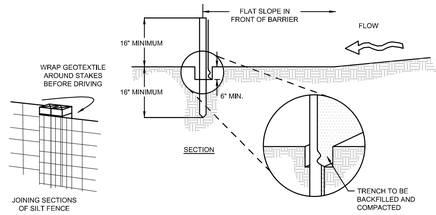
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC-1	2.1

INSTALLATION: PLACE DANDY CURB INLET PROTECTION UNIT ON GROUND WITH AGGREGATE POUCH ON STREET SIDE NEAR INLET IT WILL BE INSTALLED ON. TO INSTALL ABSORBENT, PLACE ABSORBENT SOCK IN POUCH. FILL POUCH WITH AGGREGATE SUCH AS #5-7, #S OR SIMILAR TO A LEVEL (AT LEAST 1/2 FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE DANDY CURB AND THE SURFACE OF THE STREET. RESEAL VELCRO ACCESS. CENTER THE UNIT AGAINST THE CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED. REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION.

3 C-502 DANDY CURB DETAIL
N.T.S.



NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

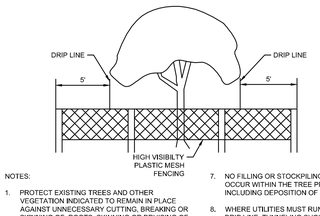
SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POST – THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
2. SILT FENCE FABRIC – SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

5 C-502 SILT FENCE DETAIL
N.T.S.



NOTES:

1. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND AND VEGETATION TO BE LEFT STANDING.
2. SIGNAGE SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
3. TREE AND NATURAL PRESERVATION AREA SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
4. FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH SNOW FENCE.
5. FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
6. IF ANY CLEARING IS DONE AROUND SPECIMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GRUBBED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
7. NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE TREE PROTECTION AREA, INCLUDING DEPOSITION OF SEDIMENT.
8. WHERE UTILITIES MUST RUN THROUGH A TREE'S DRIP LINE, TUNNELING SHOULD BE USED TO MINIMIZE ROOT DAMAGE. TUNNELING SHOULD BE AT A MINIMUM DEPTH OF 24 INCHES FOR TREES LESS THAN 12 INCHES IN DIAMETER OR AT A MINIMUM DEPTH OF 36 INCHES FOR LARGER DIAMETER TREES.
9. WHERE TUNNELING WILL BE PERFORMED WITHIN THE DRIP LINE OF A TREE, THE TUNNEL SHOULD BE PLACED A MINIMUM OF 2 FEET AWAY FROM THE TREE TRUNK TO AVOID TAPROOTS.
10. MINIMIZE EXCAVATION OR TRENCHING WITHIN THE DRIP LINE OF THE TREE. ROUTE TRENCHES AROUND THE DRIP LINE OF TREES.
11. ROOTS 2 INCHES OR LARGER THAT ARE SEVERED BY TRENCHING SHOULD BE SAWN OFF NEATLY IN ORDER TO ENCOURAGE NEW GROWTH AND DISCOURAGE DECAY.
12. SOIL EXCAVATED DURING TRENCHING SHALL BE PILED ON THE SIDE AWAY FROM THE TREE.
13. ROOTS SHALL BE KEPT MOIST WHILE TRENCHES ARE OPEN AND REFILLED IMMEDIATELY AFTER UTILITIES ARE INSTALLED OR REPAIRED.

6 C-502 TREE PROTECTION DETAIL
N.T.S.

NOTE :
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

OHIO811.org Before You Dig

COPYRIGHT 2025 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

220 YANKEE ROAD
MONROE, OH
45050

MONROE LOCAL SCHOOLS

ARCHITECT
FANNING HOWEY
614.764.4661 WWW.FHAI.COM

CONSULTANT
THE KLEINGERS GROUP
CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

EARLY SITE PACKAGE

STATE OF OHIO
CRAIG A. HONKOMP
58008
REGISTERED
PROFESSIONAL ENGINEER
Feb 27, 2026

DRAWN BY:

PROJECT NUMBER: 222101.02

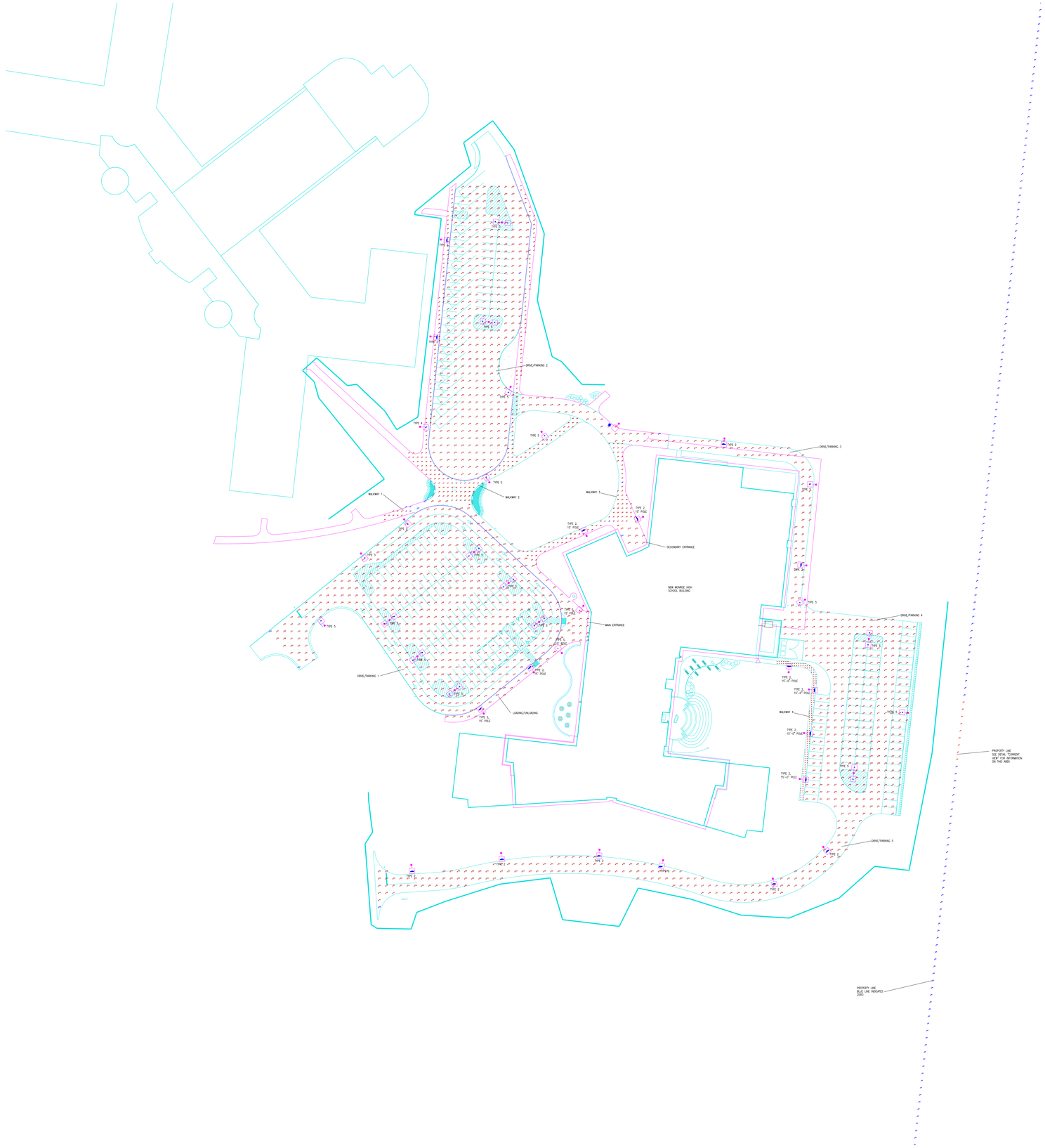
PROJECT ISSUE DATE: 2/27/2026

REV NO.	DESCRIPTION	DATE

STORMWATER POLLUTION PREVENTION DETAILS

6 OF 6

H:\Engineering\2021\222101\Drawings\222101_CIVIL_Sheets_Q\MRK\2026\02\26\C-502.dgn - Shared Area, 2/27/2026 8:33:10 AM, dbaughur



OVERALL ELECTRICAL SITE PLAN

1" = 60'-0"

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Outlumn	LLF	Input Power	Polar Plot
	T2		10	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	MSA-SA3C-740-U-T2	MESA POST TOP DECORATIVE LUMINAIRE, 48 (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.	48	378	1	166	Max: 17444cd
	T5		31	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	MSA-SA3C-740-U-SMQ	MESA POST TOP DECORATIVE LUMINAIRE, 48 (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.	48	409	1	166	Max: 9754cd
	T2 15'		8	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	MSA-SA2B-740-U-T2	MESA POST TOP DECORATIVE LUMINAIRE, 32 (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.	32	311	1	85	Max: 9544cd
	T5 15'		2	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON)	MSA-SA2B-740-U-SMQ	MESA POST TOP DECORATIVE LUMINAIRE, 32 (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.	32	335	1	85	Max: 5337cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DRIVE/PARKING 2	+	2.6 Fc	4.9 Fc	1.2 Fc	4.1:1	2.2:1
DRIVE/PARKING 3	+	1.9 Fc	4.4 Fc	0.6 Fc	7.3:1	3.2:1
DRIVE/PARKING 4	+	2.5 Fc	7.8 Fc	0.5 Fc	15.6:1	5.0:1
DRIVE/PARKING 5	+	2.2 Fc	4.0 Fc	0.5 Fc	8.0:1	4.4:1
LOADING UNLOADING	+	4.0 Fc	7.7 Fc	1.5 Fc	5.1:1	2.7:1
MAIN ENTRANCE	+	4.2 Fc	5.5 Fc	1.8 Fc	3.1:1	2.3:1
PROPERTY LINE	+	0.0 Fc	0.1 Fc	0.0 Fc	N/A	N/A
SECONDARY ENTRANCE	+	2.7 Fc	4.8 Fc	0.4 Fc	12.0:1	6.8:1
WALKWAY 1	+	1.7 Fc	2.0 Fc	1.4 Fc	1.4:1	1.2:1
WALKWAY 2	+	1.9 Fc	3.6 Fc	0.9 Fc	4.0:1	2:1
WALKWAY 3	+	2.3 Fc	6.1 Fc	0.5 Fc	12.2:1	4.6:1
WALKWAY 4	+	3.3 Fc	6.9 Fc	1.1 Fc	6.3:1	3.0:1
DRIVE/PARKING 1	+	3.5 Fc	8.9 Fc	0.4 Fc	22.3:1	8.8:1



Current View



PROPOSED POLE LIGHT FIXTURE – COOPER INVUE MESA SERIES

COPYRIGHT 2026 BY FANNING/HOWEY ASSOCIATES, INC.

NEW HIGH SCHOOL

500 Yankee Rd
Monroe, OH 45050

MONROE LOCAL SCHOOLS

ARCHITECT

FANNING HOWEY

614.764.4661 WWW.FHAI.COM

CONSULTANT

PHOTOMETRIC SITE PLAN

STATE OF OHIO
MARK Z. HOPF
E-79009
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: RDR

PROJECT NUMBER: 222101.02

PROJECT ISSUE DATE: 02.27.2026

REV. NO.△	DESCRIPTION	DATE

PHOTOMETRIC SITE PLAN

ES101