Planning Commission
June 16, 2026 - 6:00 PM
233 South Main Street, Monroe, Ohio

Call to Order

Roll Call

Approval of Minutes

- April 21, 2026 Planning Commission Meeting Minutes

Old Business

New Business

- Case No. 2026-6-4—PUBLIC HEARING, Consideration of a Site Plan and Conditional Use Permit for the Monroe Municipal Services Center

Administrative Reports

Adjournment

Planning Commission
April 21, 2026
233 South Main Street, Monroe, Ohio

Call to Order

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

Roll Call

Planning Commission members present: Robert Duckworth, Christina McElfresh, Matt Romito, and Debbie Hagedorn. Members absent: Andrew Hall

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

Mr. Duckworth moved to excuse Mr. Hall from the meeting. Seconded by Mr. Romito. Voice vote. Motion carried.

Approval of Minutes

Mrs. McElfresh moved to approve the minutes from the March 17, 2026, Planning Commission meeting; seconded by Mr. Romito. Voice vote. Motion carried.

Old Business

None

Mrs. Hagedorn recused herself from the meeting.

New Business

Mr. Duckworth opened the public hearing for Case No. 2026-4-3 Consideration of a Site Plan and Conditional Use Permit for a New High School Building.

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:

- 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.

Mr. Cole showed a map of proposed site.

Mr. Cole presented the review criteria as follows:

Conditional Use Permit Review Criteria:

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.

Mr. Cole reviewed staff comments as follows:

- 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.

Mr. Cole reviewed the department comments as follows:

- 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).
  - 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 Rd.
    - Butler County and ODOT
        - Monroe Local School District must comply with the requirements as laid out in the TIS approval letter from Butler County.

Mr. Cole reviewed the staff recommendation as follows:

- 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 designed to ensure safety between buses, cars, and pedestrians.

- The building elevations be revised to ensure base, body, and cap requirement 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.

Mr. Robert Buskirk, Superintendent of Monroe Local Schools, spoke as a proponent of the project. Mr. Buskirk stated that the community passed the bond issue to build a new high school in November of last year. He discussed the school district's funding for the project, noting that it is 100% publicly funded. Mr. Buskirk explained that the district spent years planning the project and that the budget is fixed, with no additional funding available. He notes that years of planning went into determining the appropriate building size and square footage necessary to accommodate current and future students. Because the budget is fixed, he argues that additional requirements related to landscaping, sidewalks, and aesthetic improvements would directly reduce funds available for educational spaces and student resources. He repeatedly emphasized that every dollar spent on nonessential site requirements is money taken "directly out of the classroom."

Mr. Buskirk stated the district has worked to address feedback from development staff. 55 comments were received initially, 40 of the 55 comments were fully resolved and complied with without concessions. There are 3 remaining items in progress and 12 remaining comments that cannot be reconciled. The unresolved items largely involve landscaping requirements, sidewalk and walkability standards, and parking lot islands and parking-related design elements. Mr. Buskirk stated these standards were written primarily for commercial developments or private housing projects and do not appropriately fit the functional needs of a public-school campus. Mr. Buskirk believes the district has already met the City more than halfway through revisions. Mr. Buskirk also stated the district is still working with the City on clarification regarding building elevations and compliance percentages and two unresolved comments pertaining to the fire department and where the new water main connection will occur. Mr. Buskirk mentioned the legal case of Brownfield vs State of Ohio in 1980, stating public entities serving a greater state purpose are not bound by local zoning codes in the same way private entities are. Mr. Buskirk stated he wants a safe, beautiful, and functional

community. Mr. Buskirk stated the City needs to prioritize education rather than rigid zoning code standards. Mr. Buskirk provided a list of all 55 comments for Planning Commission to review. Regarding lighting, Mr. Buskirk explained that the district intends to conduct a photometric study for the new building, but stated the City is also asking them to evaluate lighting conditions around the current campus and stadium. Mr. Buskirk stated it would require extensive additional work unrelated to the actual high school addition project.

Thad Rhoden, architect for project, stated (regarding the photometric) all new development will comply with new code standards for lighting. He stated the current site conditions are decades old and that finding conditions pertaining to current lighting would be hard to do as this lighting is no longer available because the style of lighting in place hasn't been produced in over 12 years. Mr. Rhoden stated the current school was built in the early 2000's and they feel it should be reviewed/pertain to the code at the time, not the current zoning code.

Mr. Buskirk discussed the access road to the Trails of Todhunter being connected to the emergency access road to the school campus. Mr. Buskirk stated this is a major safety concern because it gives open, unsupervised access to the north side of the campus. Mr. Buskirk stated the district wants all traffic and entry to the building to come in the front main entrance. Mr. Buskirk stated they have discussed putting fencing around the back of the property to make it safer.

Mr. Buskirk discussed the requirement of sidewalks being installed on the full length of the property along Yankee Road and State Route 63. Mr. Buskirk stated that while he believes this is an important thing to have, he does not feel it needs to be completed at this time. Mr. Buskirk stated he is concerned with the safety of the children. Mr. Buskirk said he is not opposed to having sidewalks someday, but the five-year timetable is unrealistic but that he is happy to work with the city once it becomes walkable.

Mr. Buskirk mentioned the shared parking area between the two schools, stating it is a bus parking lot. Mr. Buskirk stated that putting islands in this area would cause buses to have to back out of the lot, which would be a safety concern. Mr. Buskirk stated this lot is not for car parking but is used during the day as a playground and then is as a bus lot at arrival and dismissal.

Mr. Buskirk mentioned the requirement for landscaping and parking islands. He stated the area isn't visible from either State Route 63 or Yankee Road. Mr. Buskirk mentioned removing existing islands due to issues with snow removal. Mr. Buskirk stated a low estimate for the cost of the sidewalks and landscaping is $700,000. Mr. Buskirk stated he plans to continue to work with the City regarding these issues, but the funds need to be spent on the building.

Mr. Duckworth asked for clarification of the case Mr. Buskirk referenced. Mr. Buskirk stated it is Brownfield vs Ohio. Mr. Buskirk stated some school districts have had to sue cities but that he feels the school has a good working relationship with the City and feels these issues can be worked out.

Mrs. McElfresh asked when the school would be open and operational. Mr. Buskirk stated the fall of 2028.

Mr. Duckworth asked for any other proponents. None came forward.

Mr. Duckworth asked for any opponents. None came forward.

There were no final comments from staff.

Mr. Duckworth moved to accept the documents for the public record. Seconded by Mr. Romito. Voice vote. Motion carried.

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

Mrs. McElfresh mentioned the access road in Trails of Todhunter. Mrs. McElfresh stated she understands the safety component but wants to know why there is an access road. Mr. Cole stated staff will be speaking with the Fire Department regarding this. Mr. Cole stated the Fire Department will use the school to access the secondary access into Trails of Todhunter in the case of an emergency. Mrs. McElfresh asked if the school was always aware of this being required. Mr. Cole stated he would need to look back at the records for that subdivision. Mr. Buskirk stated if it is an emergency access for Fire, he is willing to work the City. Mrs. McElfresh asked if this was a fire issue or connectivity issue. Mr. Cole stated it is both and that staff plan to meet with Fire regarding the issue. Mrs. McElfresh asked if this would be an area where the school would work with staff to resolve the issue. Mr. Cole stated that yes, he believed so.

Mrs. McElfresh brought up the issue of the bus parking lot and the islands in this lot. Mrs. McElfresh stated she can see how the requirement of parking islands could be problematic but recognizes this is the code. Mrs. McElfresh stated this could be a special circumstance. Mrs. McElfresh said that this requirement could possibly be taken away. Mrs. McElfresh stated changing the requirement sets a precedence and also brought up the issue of allowing the school to remove the required islands as being looked at as preferential treatment. Mrs. McElfresh stated Planning Commissions job is to uphold the City's code.

Mr. Duckworth asked if Planning Commission is allowed to waive the requirement. Mr. Cole stated they cannot waive the requirement but can modify the requirement. Mr. Cole stated there hasn't been any proof given to staff showing the parking islands cannot work

in the bus parking lot. Mr. Cole stated Planning Commission can change this requirement of requiring the landscape islands in this area and instead instruct staff to work with the applicant to try to develop an alternative compliance so that it meets the intent. Mr. Cole stated no alternative compliance has been presented by the school. Mr. Duckworth stated based on what he sees on the plans some of the islands seem like they wouldn't work. Mrs. McElfresh asked if Planning Commission can make a recommendation that the school work with staff on this issue. Mr. Cole stated they can.

Mrs. McElfresh stated she feels landscaping is important. Mrs. McElfresh stated that maybe Butler Tech could be involved in assisting with the landscaping.

Mrs. McElfresh stated every company that has come into the city hasn't wanted to put in sidewalks but that the proposed sidewalks feed into the overall plan of connectivity. Mrs. McElfresh stated grace has been given pertaining to this project, stating the City would require any new project to install sidewalks immediately. Mrs. McElfresh stated the sidewalks wouldn't actually need to be installed for seven years. Mrs. McElfresh stated maybe the school could budget over the seven years so they will be able to afford the sidewalks. Mrs. McElfresh stated she feels strongly about sidewalks and connectivity, mentioning some businesses were not made to install them and now there are gaps throughout the city.

Mr. Cole stated the City is more than willing to work with the school on obtaining grants to assist in the cost of the sidewalks.

Mr. Romito asked why there is a requirement for sidewalks on State Route 63. Mr. Cole stated it is because it is all one site, and that the entire site must come into compliance. Mr. Cole went on to say that he is unaware of why Butler Tech wasn't required to install sidewalks, as that was under a different administration. Mr. Romito stated he feels that having this large portion completed would be a huge help to the city.

Mr. Duckworth asked if there are any safety buffers being discussed for State Route 63. Mr. Cole stated the SS4A (Safe Streets for All) committee will be discussing this area and ensuring safety is a large component to the plan. Mr. Cole stated the SS4A plan isn't completed but should be within the year and that staff will be able to have a better idea of how to go about installing safe sidewalks.

Mr. Duckworth asked where the sidewalk at the north access would lead to. Mr. Cole stated it will lead into the residential area and that the east sidewalk will stop at Heritage Green where there is a crossing across State Route 63. Mr. Cole stated this will all be addressed with the SS4A study.

Mrs. McElfresh asked why the photometric would encompass the entire development and not just the new area. Mr. Cole stated that all plans have to encompass the entire site due

to light pollution and safety on access drives and walks as well as entry positions on the site. Mr. Cole stated the City needs the photometric of the entire site to verify this requirement is being met. Mr. Duckworth thought that this project would be looked at as a separate project, not to be included with the already existing area. Mr. Cole stated modification to the condition can be done. Mr. Cole stated Planning Commission could say that the photometric could only require all new lighting be shown, ensuring compliance to the City's standards.

Mrs. McElfresh asked when this project was brought to the City. Mr. Cole stated he believed it was at the end of 2025. Mr. Cole was unsure of the pre-application meeting but stated he thinks it was in January or February of 2026. Mrs. McElfresh asked when the last code change was adopted. Mr. Cole stated in 2024. Mrs. McElfresh asked if there have been any changes to the code since then. Mr. Cole stated there have been some corrections with language and verbiage but that not all the changes were small. Mrs. McElfresh asked if any changes have been made since the project was brought to the city. Mr. Cole stated there have not been. Mrs. McElfresh stated the zoning code was available to the applicant and that they knew what the City's standards were. Mrs. McElfresh questioned why these issues are being brought to the City now. Mr. Cole stated staff is responsible for reviewing once the application is presented to the city and that it is up to the applicant and the developer to read and understand the code to ensure compliance. Mr. Cole stated these standards have been in the code since at least 2018.

Mr. Duckworth and Mr. Romito stated their issues have been discussed.

Mr. Duckworth asked if the school could apply for a variance through BZA regarding the landscaping and sidewalks. Mr. Cole stated they can.

Mr. Duckworth asked for clarification of where the school's property is on the map. Mr. Cole advised.

Mrs. McElfresh moved to approve Case No. 2026-4-3- Consideration of a Site Plan and Conditional Use Permit for a new High School Building with the following conditions:

A. The landscape plan be revised to address staff report comments.

B. A turning template for the bus parking area be submitted to staff. The applicant will work with staff regarding the modifications for the islands in the bus lot.

C. 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 has lapsed and if the applicant has not complied with the condition above.

- This 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.

D. All landscaping must meet minimum species and size requirements and be detailed appropriately on the plan.

E. Street trees be installed as addressed in the staff report.

F. The sidewalks and/or paths shall be installed per section 1205.06 sidewalks and trails along Yankee Road and State Route 63 as well as connecting to the school campus within 5 years of occupancy. The applicant will work with staff to potentially obtain grant dollars to offset the expense.

- 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.

- This 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.

G. The parking be clarified and revised to meet minimum code requirements as well as be designed to ensure safety between buses, cars, and pedestrians.

H. The building elevations be revised to ensure the base, body, and cap requirements are met.

I. All ground-mounted and rooftop equipment must be appropriately screened as approved by staff.

J. Regarding the photometric plan, the applicant will work with staff regarding new lighting compliance.

K. All engineering review comments be addressed.

L. Monroe Local School district comply with the requirements as laid out in the T.I.S. approval letter from Butler County. non-compliance with these requirements will directly impact the conditional use status of this project.

M. All fire review comments be addressed.

N. The applicant will be responsible for maintenance (mowing, etc) of the right-of-way adjacent to the developed site once improvements are complete.

O. Digital files of final plans compatible with city GIS be submitted.

P. All other staff comments be met.

Seconded by Mr. Romito. Roll call vote. 3 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 7:24 p.m.

Respectfully submitted,

Michelle Layman
Planning and Zoning Specialist

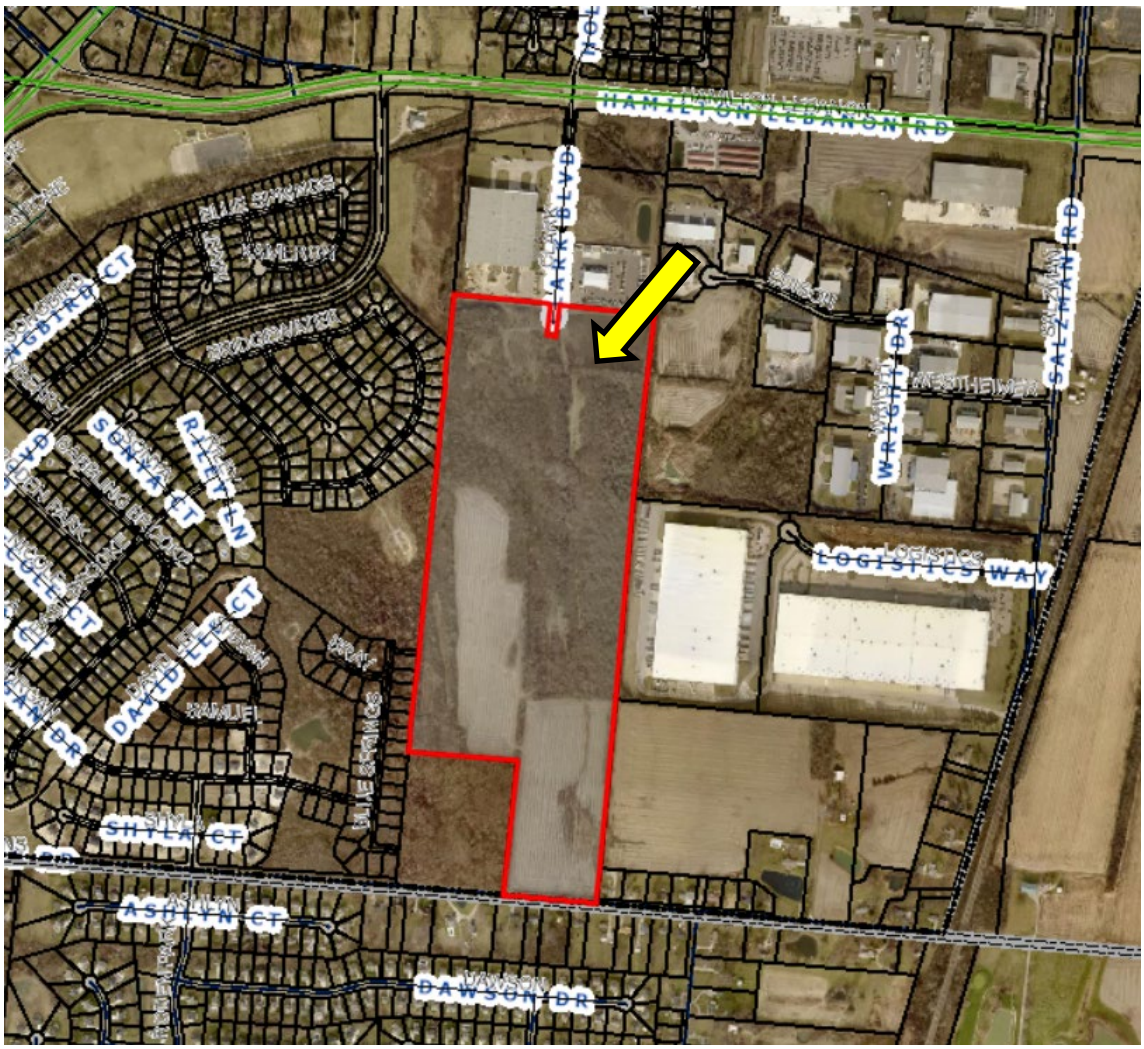
CITY OF MONROE
Inter-Office Correspondence

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

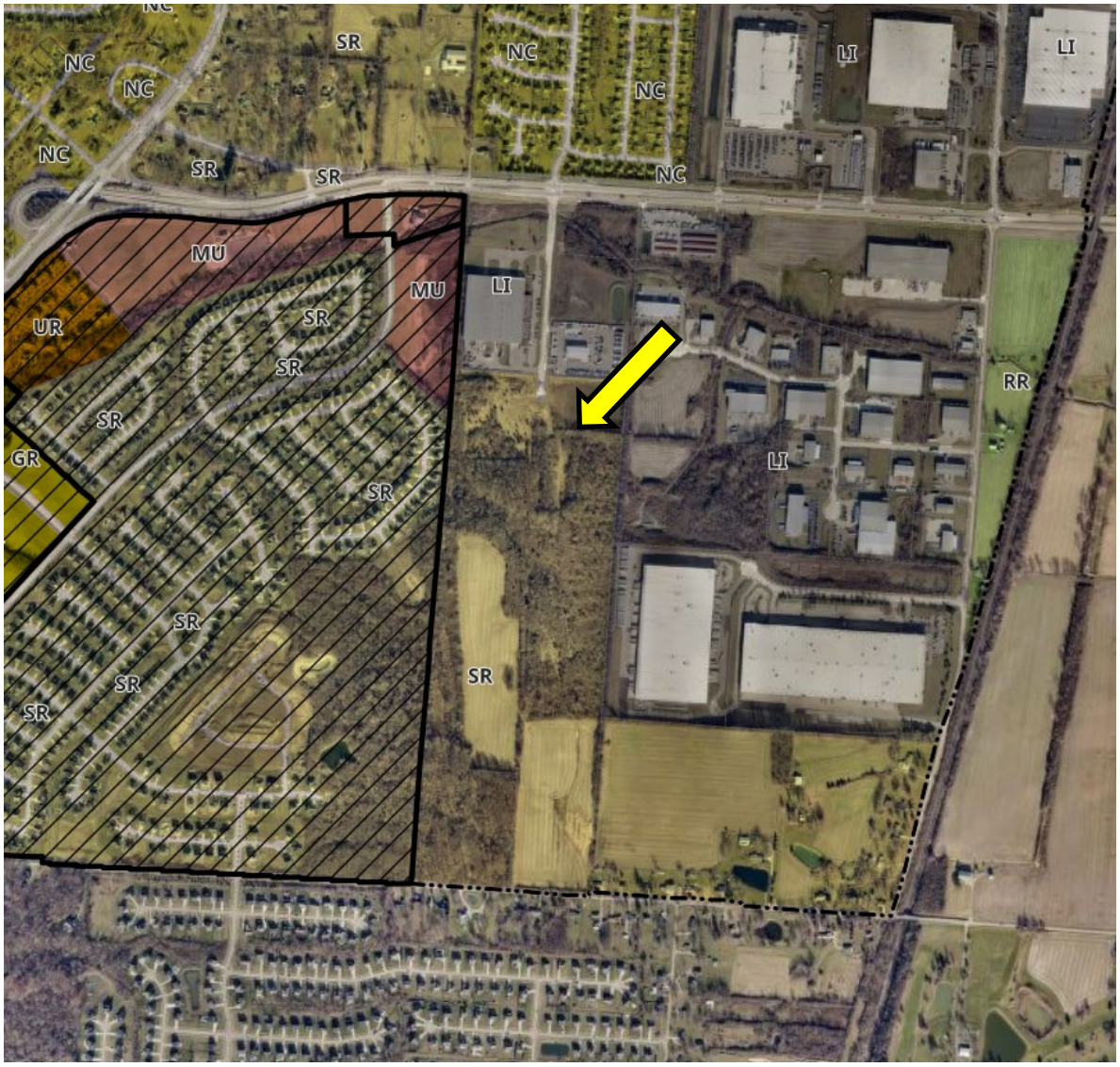
DATE: June 16, 2026
RE: Information Packet for June 16, 2026, Planning Commission Meeting at 6:00 p.m.

I. Case No. 2026-6-4—PUBLIC HEARING, Consideration of a Site Plan and Conditional Use Permit for the Monroe Municipal Services Center

- Gary Morton, on behalf of the City of Monroe, has submitted conditional use and site plan applications for a new City facility to house staff offices and Public Works equipment and vehicles.
- The applicant is proposing approximately 22,000 square feet of administrative office space and approximately 44,000 square feet for vehicle storage.
- The entire site is103 acres zoned SR Suburban Residential. The site will ultimately occupy 14 acres of the original 103 acres.
- The applicant anticipates construction to start late May or early June 2026 and complete construction late summer 2027.



Overhead View of Property



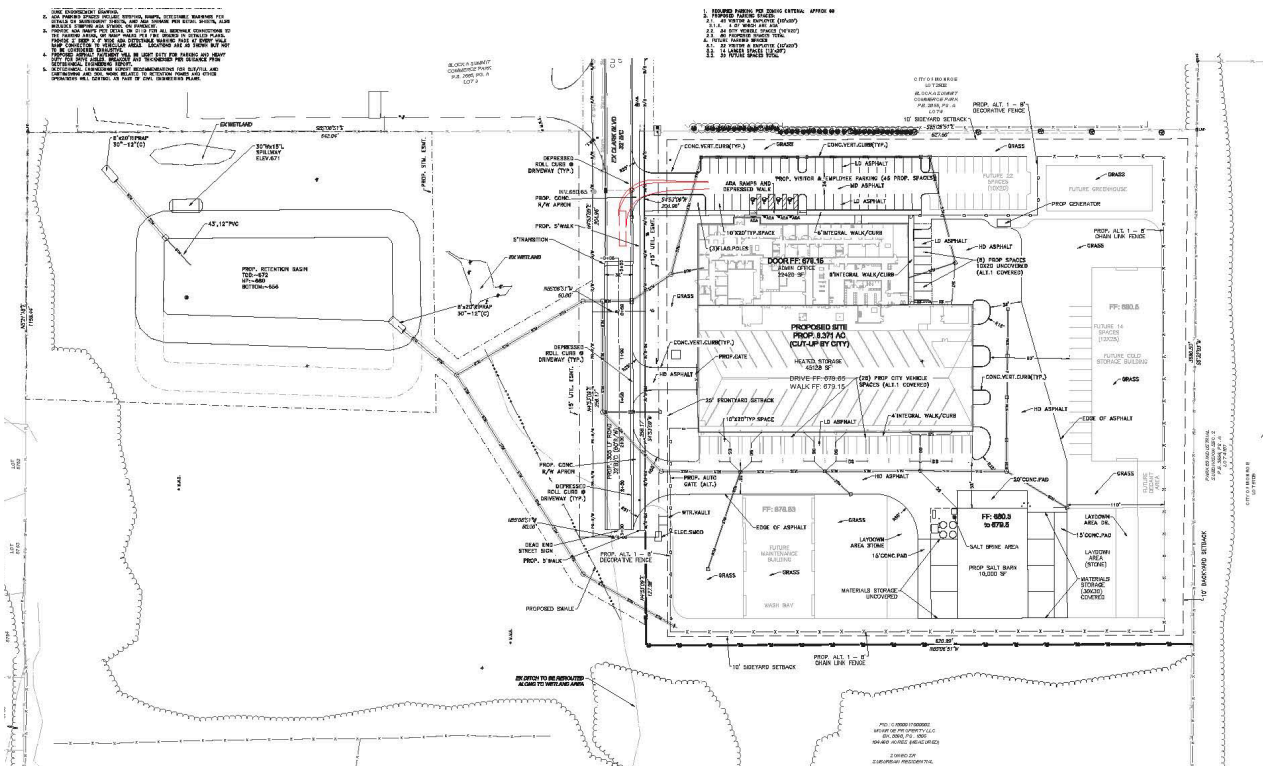
Zoning Map of Proposed Site and Surrounding Properties



Looking southeast towards the site from Clark Blvd



Looking east towards the site from Clark Blvd



Proposed Site Plan

B. Conditional Use Permit

Because this use is considered a “Government Facility,” 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 making a decision 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 conditional use will operate similarly to other government facilities operate. The design and orientation is designed in a manner that enhances maneuverability and functionality for staff. The design does not diminish the use or functionality of surrounding properties.

  The applicant has stated that the proposed Public Works Facility will be harmonious with the existing and intended character of the Clark Boulevard corridor, which is currently composed of industrial uses. As essential municipal infrastructure, the facility supports the community while remaining compatible with surrounding land uses and maintaining the area’s established character.

- ***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 development, as proposed, incorporates parking, loading, driveways, lighting, signage, landscaping, buffering, and other site improvements. As this facility will house the Public Works Department, the hours of operation could expand beyond the typical 8 AM to 5 PM workday based on the City's needs or in case of emergency.

  The applicant states that the site provides safe access, appropriate circulation for municipal vehicles, and adequate utilities and public services. Building placement, screening, and site organization will minimize potential impacts related to traffic, lighting, and noise.

- ***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;***

  The development will have adequate public services. The site meets the minimum requirements for off-street parking and pedestrian facilities, with sidewalk along Clark Boulevard and a connection to the building itself.

- ***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***

  The proposed facility incorporates design features intended to protect adjacent uses. For example, City truck and equipment traffic will have a dedicated entrance, minimizing potential conflicts with vehicular traffic. Additionally, the site includes an enhanced buffer along the southern boundary to ensure that any future development on the remaining acreage, zoned for residential development, is not adversely affected.

- ***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 proposed facility is compatible with adjacent uses, abutting two industrial properties—Penske and Kokosing—as well as the Park 63 industrial park. In terms of site scale, the new facility is positioned between Penske, which occupies 6.4 acres on a 13.4-acre site, and Kokosing, which occupies 11.9 acres on a 15-acre site. The proposed facility will occupy 8.8 acres of a 14-acre site. Architecturally, it is most comparable to Kokosing, as both feature administrative spaces with lower heights of approximately 16–17 feet, are constructed from similar materials, and include attached metal storage buildings reaching about 30 feet in height.

While the building orientation differs from adjacent properties—most have front entrances parallel to the street, whereas the new facility will not front Clark Blvd—the site's overall design and layout remain consistent with its neighbors.

The applicant has stated that the orientation of the building is due to the topography as well as maneuverability of City trucks and equipment on the site.

C. Staff Comments

- **Parking**
    - The facility is required 1 parking space per 400 square feet of gross floor area. The facility is required to have 55 parking spaces.
        - The site provides 46 parking spaces at the time of construction with an additional 22 spaces as shadow parking shown as "future parking".
        - This meets requirements described in article 1204.13(B)(7)Shadow Parking as an allowable method to reduce impervious surface. .

- **Landscaping**
    - Parking islands are required throughout the site.
        - Once the future parking, shown as shadow parking, is installed, the parking islands, associated landscaping, and screening must be installed in accordance with this code. Two landscaped end cap islands will be required at that time.

- **Architectural**
    - Base, Body, Cap Design Elements.
        - The applicant must show the Base, Body, Cap percentages on the elevations to ensure compliance.

- **Building Orientation**
    - Buildings shall generally be parallel to the street they front.
        - The code allows the primary entrance of the building to be oriented as approved by the review body during site plan review.

- **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 line of sight diagram for any rooftop mechanical equipment to ensure proper 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 photometric plan is missing the southern property line. Please revise.

D. Department Comments

- **Fire Department:** Fire reserves the right for further review with formal building permit submittal.
- **Police Department:** No comment.
- **Engineering/Public Works Department:** Engineering review ongoing.

E. Staff Recommendation

- Staff recommends approval of the Conditional Use and Site Plan applications with the following conditions:
    - Discussion and decision regarding the orientation of the entrance.
    - Revise the photometric plan to show the southern property line.
    - Show a line-of-sight diagram to ensure proper screening for rooftop equipment.
    - Revise each elevation to show the base, body, and cap percentages to ensure compliance.
    - All landscaping must meet all minimum species and size requirements and be detailed appropriately on the plan.
    - All ground-mounted and rooftop equipment must be appropriately screened as approved by Staff.
    - All Engineering review comments be addressed.
    - 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 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 Clark Boulevard, Monroe OH 45050

County: ☑ Butler ☐ Warren | Total Lot Area: 103.318 acres

County Tax Parcel ID: C1800017000002

Project/Development Name: New Monroe Municipal Services Center

Existing Zoning District: SR - Suburban Residential

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

Applicant Information

Applicant Name: City of Monroe

Contact Person: Gary Morton

Contact Address: 233 South Main Street Monroe, OH 45050

Contact Phone Number: 513-727-8953 | Contact Fax Number: 513-422-7146

Contact E-Mail: mortong@monroeohio.gov

Property Owner Name: City of Monroe

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: 200 Clark Boulevard, Monroe OH 45050

Conditional Use Permit Information Continued

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

The proposed use of the site is a full-service office and operations campus for the City of Monroe Public Works Department. The facility will include administrative offices, fleet and equipment storage, vehicle maintenance areas, and material storage needed to support the maintenance of the City's streets, utilities, and public infrastructure. The site will accommodate municipal vehicles, equipment, staff parking, and operational support spaces. Activities will primarily involve the storage, dispatch, and servicing of municipal vehicles and equipment used to provide routine public works services throughout the City.

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 proposed Public Works Facility will be harmonious with the existing and intended character of the Clark Boulevard corridor, which is primarily composed of employment, industrial, warehouse, and service-oriented uses. The facility's functions - fleet storage, equipment maintenance, and administrative operations - are consistent with activities commonly found in this type of employment district. Site planning will ensure orderly operations, appropriate circulation, and a professional appearance. As essential municipal infrastructure, the facility supports the community while remaining compatible with surrounding land uses and maintaining the area's established character.

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

The proposed Public Works Facility satisfies the conditional use standards of Section 1203.05. The use supports the City's municipal operations and is consistent with the employment and service-oriented character of the surrounding area. The site provides safe access, appropriate circulation for municipal vehicles, and adequate utilities and public services. Building placement, screening, and site organization will minimize potential impacts related to traffic, lighting, and noise. The development will maintain an orderly and professional appearance while ensuring compatibility

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:

Signature:

Date:

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:

Signature:

Date:

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

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: 200 Clark Boulevard, Monroe OH 45050

County: ☑ Butler ☐ Warren | Total Lot Area: 103.318 acres

County Tax Parcel ID: C1800017000002

Project/Development Name: New Monroe Municipal Services Center

Existing Zoning District: SR - Suburban Residential

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

Applicant Information

Applicant Name: City of Monroe

Contact Person: Gary Morton

Contact Address: 233 South Main Street Monroe, OH 45050

Contact Phone Number: 513-727-8953 | Contact Fax Number: 513-422-7146

Contact E-Mail: mortong@monroeohio.gov

Property Owner Name: City of Monroe

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: 200 Clark Boulevard, Monroe OH 45050

Additional Project Information

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

There are no existing uses or buildings on the project site.

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.

The proposed use of the site is a full-service office and operations campus for the City of Monroe Public Works Department. The facility will include administrative offices, fleet and equipment storage, vehicle maintenance areas, and material storage needed to support the maintenance of the City's streets, utilities, and public infrastructure. The site will accommodate municipal vehicles, equipment, staff parking, and operational support spaces. Activities will primarily involve the storage, dispatch, and servicing of municipal vehicles and equipment used to provide routine public works services throughout the City.

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

Start Date: 5/15/2026	Completion Date: 07/31/2026

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

$15,000,000

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:

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.

Butler County Water and Sewer for Water and Sewer and Ohio EPA for Water and Sewer and Construction Site Storm Water.

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:

Signature:

Date:

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:

Signature:

Date:

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
☑	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

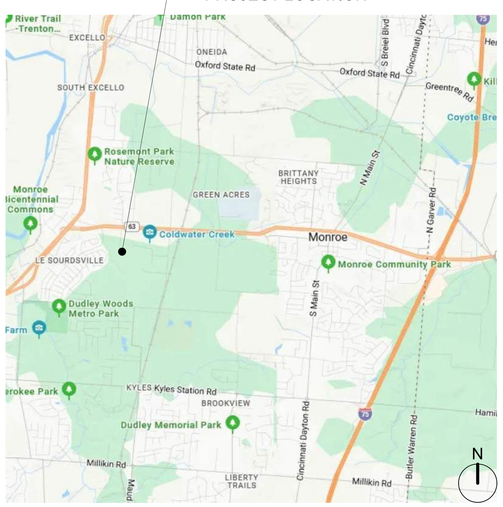
Submittal Requirement Checklist	
☐	Location and amount of credit towards landscape material requirements provided by existing landscaping
☐	Demarcation of existing trees to be removed
☐	Location and amount of all open space set-aside areas by development phase
☐	Details of all open space improvements 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)

MONROE MUNICIPAL SERVICES CENTER

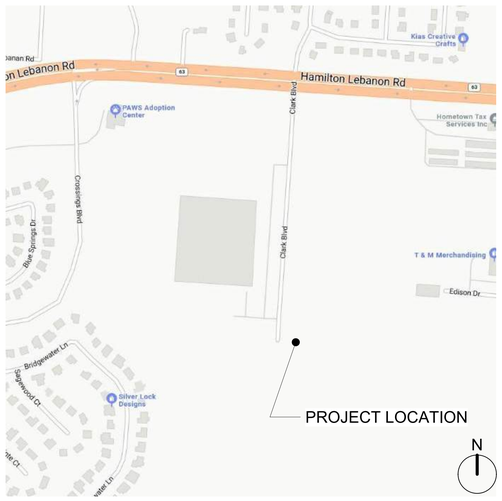
200 CLARK BLVD
MONROE, OH 45050

DRAWING INDEX

G-001a	COVER SHEET
C-101	COVER SHEET - CIVIL SITE PLAN
C-102	EXISTING CONDITIONS/DEMO - CIVIL
C-103	SITE PLAN - CIVIL ENGINEERING
C-104	UTILITY PLAN - CIVIL ENGINEERING
C-105	GRADING PLAN - CIVIL ENGINEERING
C-106	DRAINAGE MAP - CIVIL ENGINEERING
C-107	RETENTION - CIVIL ENGINEERING
C-108	UTILITY PROFILES - STORM PIPE
C-109	UTILITY PROFILES - SEWER WATER
C-110	SITE PLAN DETAILS
C-111	COUNTY WATER SEWER DETAILS
C-112	EROSION & SEDIMENT CONTROL PLAN
C-113	EROSION & SEDIMENT DETAILS
C-114	CITY ROAD/UTILITY DETAILS
C-115	CITY STORM WATER DETAILS
A-010a	ARCHITECTURAL SITE PLAN
A-011a	PRELIMINARY FLOOR PLAN
A-020a	PRINCIPAL BUILDING ELEVATIONS
A-021a	ACCESSORY BUILDING - SALT STORAGE ELEVATIONS
E-002	ELECTRICAL SITE PHOTOMETRICS
E-003	ELECTRICAL SITE PHOTOMETRICS - ALTERNATE



AREA MAP



VICINITY MAP

PROJECT DESCRIPTION

THE PROJECT IS A NEW MUNICIPAL SERVICES CENTER WHICH INCLUDES AN ADMINISTRATION AREA AND A VEHICLE STORAGE AREA. THE ADMINISTRATION AREA WILL INCLUDE OFFICES, A TRAINING ROOM AND SPACE FOR THE CREW. THE STRUCTURE IS A SINGLE STORY AND WILL BE FULLY FIRE SUPPRESSED.

CONSULTANTS

emersion DESIGN LLC
310 CULVERT STREET, SUITE 100
CINCINNATI, OHIO 45202
513.841.9100
emersiondesign.com

CMTA, INC.
1100 SYCAMORE STREET, SUITE 4
CINCINNATI, OHIO 45202
513 429 4404
cmta.com

INFRASTRUCTURE & DEVELOPMENT ENGINEERING, Inc.
8899 BROOKSIDE AVE., SUITE 202-A
WEST CHESTER, OHIO 45069
513 671 8144

emersion DESIGN
310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

MARK	DESCRIPTION	DATE

DESIGNED BY: R. FUSSNER
DRAWN BY: A. GOSSER
CHECKED BY: S. CLARY
PROJECT MANAGER: T. WILEY
DATE:
SHEET ISSUE:
PROJECT NO: 022503
SHEET SIZE: 30x42
PLOT SCALE:

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050
COVER SHEET

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
G-001a

Plot Date: 4/6/2026 12:05:51 PM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt

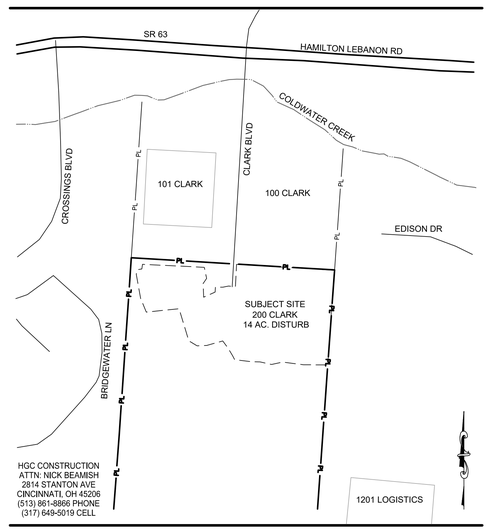
MONROE MUNICIPAL SERVICES CENTER

CONDITIONAL USE AND SITE PLAN

200 CLARK BLVD

CITY OF MONROE, BUTLER CO., OHIO

Vicinity Map 1" = 400'



GENERAL: THE CURRENT STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOTCMS) TOGETHER WITH SPECIFICATIONS AND REQUIREMENTS OF THE CITY OF MONROE AND WITH BUTLER COUNTY WATER AND SEWER, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS. WHEN THERE IS OR APPEARS TO BE A CONFLICT BETWEEN THE ABOVE REFERENCED SPECIFICATIONS AND THESE PLANS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

PROJECT LIMITS: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, CONSTRUCTION EASEMENTS, AND PERMANENT EASEMENTS, AND SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

MISCELLANEOUS WORK: ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

DRAINAGE TILE: ALL FARM DRAINS, ROADWAY DRAINS, AND OTHER DRAINAGE TILE WHICH ARE ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION SHALL BE PROVIDED WITH AN UNOBSTRUCTED OUTLET. EXISTING COLLECTOR TILES WHICH ARE LOCATED BELOW THE PROPOSED FINISHED ELEVATION AND WHICH CROSS THE TRENCH SHALL BE REPLACED WITHIN THE TRENCH LIMITS BY ITEM 603 CONDUIT. THE LOCATION, TYPE, SIZE, AND GRADE OF REQUIRED REPLACEMENT SHALL BE DETERMINED BY THE PROJECT ENGINEER OR HIS SITE REPRESENTATIVE DURING CONSTRUCTION. NECESSARY BENDS OR FITTINGS, COMPACTED GRANULAR BACKFILL, AND ASSOCIATED ITEMS SHALL BE INCLUDED IN THE BID PRICE.

BORROW MATERIAL AND SURPLUS EXCAVATION: THE SITE SHALL BE CONSTRUCTED TO THE FINAL GRADES SHOWN ON THE PLANS. WHERE NECESSARY, THE CONTRACTOR SHALL OBTAIN SUITABLE BORROW MATERIAL ON-SITE OR OFF-SITE AS NEEDED TO COMPLETE THE SITE CONSTRUCTION AS PROVIDED HEREIN. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION ON SITE, AND, IF NECESSARY, SHALL HAUL SURPLUS EXCAVATED MATERIAL AWAY FROM THE SITE AND DISPOSE OF PROPERLY.

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE. THE LOCATION, SIZES, AND OTHER INFORMATION SHOWN IS ONLY AS ACCURATE AS THAT PROVIDED BY THE OWNERS OF THE UTILITY. THIS INFORMATION IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. THE ENGINEER DOES NOT INDEPENDENTLY VERIFY NOR FIELD LOCATE UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, THE HORIZONTAL AND VERTICAL LOCATIONS, WHETHER SHOWN ON THE PLAN OR NOT, PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND ALL UTILITY OWNERS HAVING FACILITIES IN THE CONSTRUCTION AREA WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE. THE CONTRACTOR SHALL ADHERE TO SECTION 153.64, OHIO REVISED CODE. THE CONTRACTOR SHALL GIVE NOTIFICATION AS REQUIRED BY OHIO REVISED CODE, AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, AND SHALL COORDINATE HIS WORK WITH THE UTILITY OWNERS UNTIL HIS WORK IS COMPLETED. THE CONTRACTOR SHALL KEEP THE UTILITY OWNERS APPRISED OF HIS SCHEDULE AND REQUIREMENTS AND SHALL PROVIDE THE PROJECT OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

THE CONTRACTOR MAY REVIEW THE INFORMATION PROVIDED TO THE ENGINEER BY THE UTILITY COMPANIES AT THE ENGINEER'S OFFICE PRIOR TO SUBMITTING A BID. CONTRACTORS REQUIRING MORE INFORMATION REGARDING EXISTING UTILITIES SHOULD CONDUCT THEIR OWN FIELD INVESTIGATIONS, OR OTHERWISE LOCATE THE UTILITIES, PRIOR TO SUBMITTING A BID FOR THE CONSTRUCTION. NOTICE SHALL BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764), FOR THE MEMBER UTILITIES.

PERMITS: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS. THE CONTRACTOR SHALL NOT ENTER ON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

INSTALLATION IN EMBANKMENT: WHERE UTILITIES ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS A MINIMUM OF TWO FEET ABOVE THE PIPE BUT SUFFICIENTLY ABOVE THE PIPE TO PROTECT THE PIPE FROM DAMAGE DUE TO FURTHER CONSTRUCTION ACTIVITIES PRIOR TO THE INSTALLATION OF THE UTILITY.

TEMPORARY PAVEMENT: TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENT DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK. AS SOON AS THE TRENCH HAS BEEN BACKFILLED, TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS AND EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. THE TEMPORARY PAVEMENT SHALL CONSIST OF 2 INCHES OF BITUMINOUS COLD MIX MATERIAL PLACED UPON 6 INCHES OF COMPACTED ITEM 304 (ODOTCMS), AGGREGATE BASE. TEMPORARY PAVEMENT SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVEMENT IS INSTALLED.

PERMANENT PAVEMENT: WHERE DAMAGED OR REMOVED, THE PAVEMENT SHALL BE REPLACED BY FIRST REMOVING THE TEMPORARY PAVEMENT DOWN TO THE CLEAN GRANULAR MATERIAL AND REMOVING THE EXISTING PAVEMENT FOR AT LEAST 12 INCHES BEYOND THE TRENCH LIMITS ON EACH SIDE. THE PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED, NOT MORE THAN 72 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. THE PERMANENT PAVEMENT REPLACEMENT MATERIALS AND WORKMANSHIP SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. ITEM 407 (ODOTCMS) TACK COAT SHALL BE APPLIED TO THE EXPOSED EXISTING PAVEMENT EDGES, WHEN EITHER THE EXISTING OR NEW PAVEMENT IS BITUMINOUS MATERIAL, AND ITEM 407 (ODOTCMS) TACK COAT OR 408 (ODOTCMS). PRIME COAT SHALL BE APPLIED TO THE BASE MATERIAL, DEPENDING UPON THE BASE MATERIAL, WHEN THE PERMANENT PAVEMENT IS BITUMINOUS MATERIAL, PRIOR TO THE PLACING OF THE PERMANENT PAVEMENT.

TRAFFIC CONTROL: THE CONTRACTOR SHALL USE ADEQUATE LIGHTS, SIGNS, FLAGGERS, AND BARRICADES AS REQUIRED IN ITEM 614 (ODOTCMS) TO SAFEGUARD THE TRAVELING PUBLIC AT ALL TIMES. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A ROAD OR STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE LOCAL LAW ENFORCEMENT AGENCY, THE LOCAL FIRE DEPARTMENT, AND THE ENGINEER AS TO THE EXTENT, NATURE, AND THE TIME OF THE ANTICIPATED WORK. THE CONTRACTOR SHALL SUBMIT A PLAN AND SCHEDULE FOR DETOURING TRAFFIC TEN (10) DAYS PRIOR TO THE CLOSING OF ANY ROAD OR STREET TO THE ENGINEER AND ROAD OWNER. DURING A CLOSING OF A ROAD OR STREET, THE CONTRACTOR SHALL PROVIDE ACCESS TO THE PROPERTY FOR EMERGENCY VEHICLES AND THE PROPERTY OWNERS. NO ROAD OR STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE AGENCY HAVING CONTROL OF THE ROAD. WORK REQUIRING A LANE CLOSURE MUST BE PERFORMED DURING THE HOURS OF 8:00 PM AND 6:00 AM. ODOT PERMIT OFFICE TO BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO START OF WORK. WORK IN STATE ROUTES (IF NECESSARY) SHALL BEGIN ON A SUNDAY OR MONDAY NIGHT TO ENSURE THAT PAVEMENT REPLACEMENT IS COMPLETED BY FRIDAY.

SAFETY OF CONSTRUCTION: THE CONTRACTOR SHALL COMPLY WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, FINDINGS AND ORDERS RELATING TO SAFETY AND HEALTH CONDITIONS ON THE WORK SITE. CONSTRUCTION METHODS FOR COMPLETING THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS SHALL BE CONSISTENT WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AMENDED CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUB-PART P, EFFECTIVE MARCH 5, 1990.

CLEANOUT TOPS: WHERE CLEANOUTS ARE LOCATED WITHIN PUBLIC OR PRIVATE PAVEMENT, SIDEWALK, CONCRETE PAD, OR PAVED SHOULDER, THE TOPS SHALL BE BUILT TO EXISTING PAVEMENT ELEVATIONS.

FINAL GRADING AND CLEAN-UP: THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ALL SIGNS, MAILBOXES, FENCES, GUARDRAILS, ROADSIDE DITCHES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. THE COST OF ALL SUCH WORK SHALL BE INCLUDED WITH THE VARIOUS RELATED ITEMS.

SEEDING AND MULCHING: ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION OR TO THE PROPOSED ELEVATION SHOWN ON THE DRAWINGS, AND PROPER DRAINAGE SHALL BE PROVIDED. AFTER FINAL GRADING, THE SEED BED SHALL BE RAKED AND ALL STONES, CLODS, LUMPS, AND OTHER FOREIGN MATERIAL GREATER THAN 1" IN DIAMETER SHALL BE REMOVED PRIOR TO SEEDING AND MULCHING. ALL AREAS SHALL BE SEEDED AS PER THE URBAN SEED MIX OF SECTION 659.09 (ODOTCMS). THE CONTRACTOR SHALL WATER, RE-SEED, AND MULCH AS NECESSARY UNTIL AN ACCEPTABLE STAND OF GRASS IS ACHIEVED.

PROHIBITED CONSTRUCTION ACTIVITIES:

USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.

OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT OR DISPOSING OF THE TREES AND STUMPS.

PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.

DISCHARGING POLLUTANTS -- SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE -- AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIAL ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE CITY ENGINEER FOR SAID PURPOSES.

DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLAND SURFACE WATERS, OR OUTSIDE THE EASEMENT AREA.

PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.

DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, AND SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

EROSION & SEDIMENT CONTROL:

CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL A SWPPP PRIOR TO CONSTRUCTION. COST FOR SWPPP SHALL BE INCLUDED IN THE ITEM SPECIAL, STORM WATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION.

THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED AS PER THE REQUIREMENTS OF THE OHIO EPA, CITY OF LEBANON, AND THE STANDARDS AND SPECIFICATIONS OF THE "RAINWATER AND LAND DEVELOPMENT" MANUAL BY THE ODNR.

EROSION AND SEDIMENT CONTROL ARE TO BE MAINTAINED UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED BY THE ENGINEER. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE ENGINEER AND/OR THE OHIO EPA. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT ACTION.

SHEET INDEX:

C101 COVER SHEET
C102 EXISTING CONDITIONS/DEMO
C103 SITE PLAN
C104 UTILITY PLAN
C105 GRADING PLAN
C106 DRAINAGE MAPPING
C107 RETENTION POND
C108 STORM PROFILES
C109 ROAD, UTILITY PROFILES
C110 SITE PLAN DETAILS
C111 COUNTY WATER SEWER DETAILS
C112 EROSION & SEDIMENT CONTROL (ESC) PLAN
C113 EROSION & SEDIMENT CONTROL DETAILS
C114 CITY ROAD/UTILITY DETAILS
C115 CITY STORM WATER DETAILS

BEFORE YOU DIG — OHIO UTILITIES PROTECTION SERVICE — 1-800-362-2764 — 811 — 48 HOURS BEFORE YOU DIG

* CALL BEFORE YOU DIG "O.U.P.S." *

NOTE: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND SHALL CONTACT THE UTILITIES PROTECTION SERVICE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO DIGGING AT THE NUMBER BELOW. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS ON THIS MATTER AND NO EXCAVATION SHALL COMMENCE UNTIL ALL APPLICABLE UTILITIES HAVE BEEN CLEARED.
1-800-362-2764

N

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Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE 204
WEST CHESTER, OH 45069
(513) 671-8144

DESIGNED BY: T.FOSTER
DRAWN BY: T.FOSTER
CHECKED BY: B.GORE
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30x42
DATE: 2/3/26
SHEET ISSUE: ZONING
PROJECT NO.: 02250
PLOT SCALE: 1" = 40'

DATE | DESCRIPTION | MARK

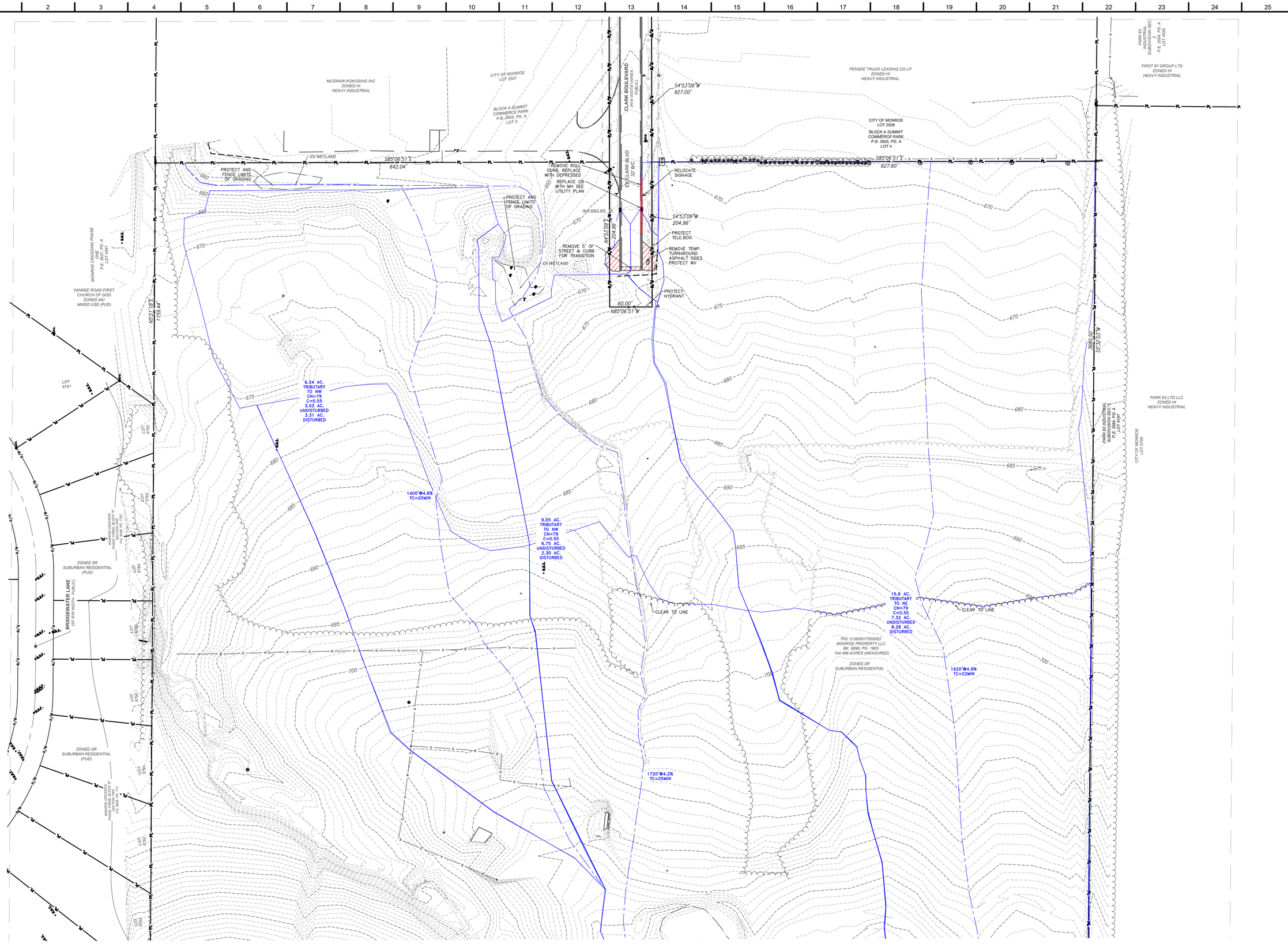
MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

COVER SHEET - CIVIL SITE PLAN

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-101

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Muni Svcs Ctr_R24.rvt

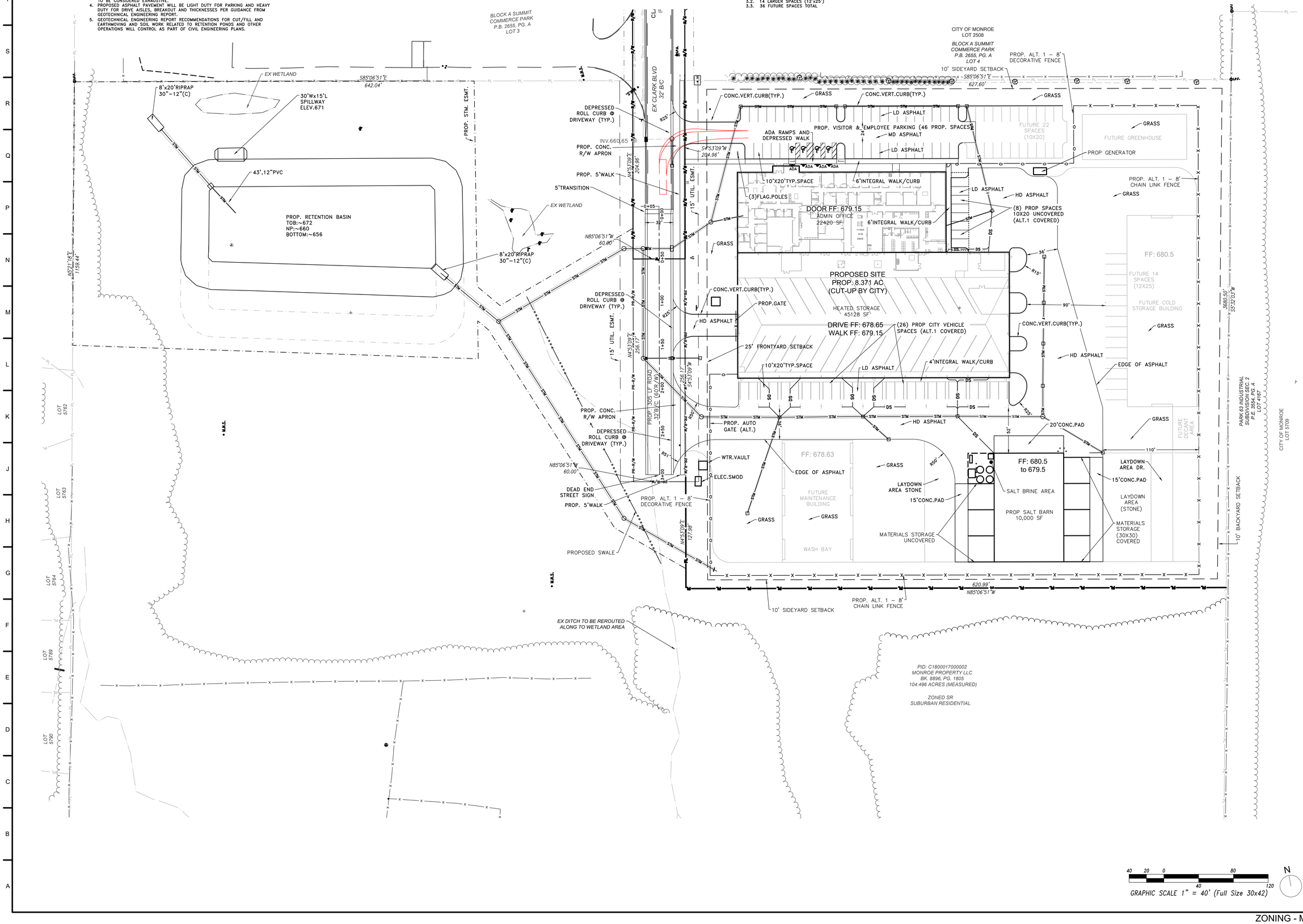

MCGRAW KOKOSING INC
ZONED HI
HEAVY INDUSTRIAL
CITY OF MONROE
LOT 2507
BLOCK A SUMMIT COMMERCE PARK
P.B.,2655, PG. A
LOT 3
CLARK BOULEVARD
(FOR TRANSITION PURPOSES ONLY)
(PUBLIC)
EX/CLARK BLVD
(EX 30' R/W)
PENSKE TRUCK LEASING CO LP
ZONED HI
HEAVY INDUSTRIAL
PARK 63
INDUSTRIAL
SUBDIVISION SEC
2
P.E. 3554, PG. A
LOT 4169
FIRST 97 GROUP LTD
ZONED HI
HEAVY INDUSTRIAL
CITY OF MONROE
LOT 2508
BLOCK A SUMMIT
COMMERCE PARK
P.B. 2655, PG. A
LOT 4
EX WETLAND
S85°06'51"E
642.04'
PROTECT AND
FENCE LIMITS
OF GRADING
REMOVE ROLL
CURB, REPLACE
WITH DEPRESSED
REPLACE CB
WITH MH SEE
UTILITY PLAN
PROTECT AND
FENCE LIMITS
OF GRADING
INV.660.65
N4°53'09"E
204.96'
S4°53'09"W
927.00'
RELOCATE
SIGNAGE
S4°53'09"W
204.96'
PROTECT
TELE.BOX.
REMOVE TEMP.
TURNAROUND
ASPHALT SIDES
PROTECT WV
REMOVE 5' OF
STREET & CURB
FOR TRANSITION
EX WETLAND
PROTECT
HYDRANT
60.00'
N85°06'51"W
S85°06'51"E
627.60'
MONROE CROSSING PHASE
ONE
P.E. 3837, PG. A
LOT 4170
YANKEE ROAD FIRST
CHURCH OF GOD
ZONED MU
MIXED USE (PUD)
N52°21'18"E
1159.44'
LOT
5761
LOT
5760
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5759
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5758
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LOT
5743
LOT
5742
LOT

GENERAL NOTES

1. COORDINATE WITH DUKE ENERGY FOR EXTENSION OF PRIMARY ELECTRIC ALONG PROPOSED ROADWAY (BY DUKE) AND PROVIDE CROSSOVERS AS REQUIRED BY DUKE ENDORSEMENT DRAWING.
2. ADA PARKING SPACES INCLUDE STRIPING, RAMPS, DETECTABLE WARNINGS PER DETAILS ON SUBSEQUENT SHEETS, AND ADA SIGNAGE PER DETAIL SHEETS, ALSO INCLUDES STRIPING ADA SYMBOL ON PAVEMENT.
3. PROVIDE ADA RAMPS PER DETAIL ON C110 FOR ALL SIDEWALK CONNECTIONS TO THE PARKING AREAS, OR RAMP WALKS PER FINE GRADES IN DETAILED PLANS. PROVIDE 2' DEEP X 5' WIDE ADA DETECTABLE WARNING PADS AT EVERY WALK RAMP CONNECTION TO VEHICULAR AREAS. LOCATIONS ARE AS SHOWN BUT NOT TO BE CONSIDERED EXHAUSTIVE.
4. PROPOSED ASPHALT PAVEMENT WILL BE LIGHT DUTY FOR PARKING AND HEAVY DUTY FOR DRIVE AISLES, BREAKOUT AND THICKNESSES PER GUIDANCE FROM GEOTECHNICAL ENGINEERING REPORT.
5. GEOTECHNICAL ENGINEERING REPORT RECOMMENDATIONS FOR CUT/FILL AND EARTHMOVING AND SOIL WORK RELATED TO RETENTION PONDS AND OTHER OPERATIONS WILL CONTROL AS PART OF CIVIL ENGINEERING PLANS.

PARKING NOTES

1. REQUIRED PARKING PER ZONING CRITERIA: APPROX 68
2. PROPOSED PARKING SPACES:
   - 2.1. 46 VISITOR & EMPLOYEE (10'x20')
     - 2.1.1. 4 OF WHICH ARE ADA
   - 2.2. 34 CITY VEHICLE SPACES (10'X20')
   - 2.3. 80 PROPOSED SPACES TOTAL
3. FUTURE PARKING SPACES
   - 3.1. 22 VISITOR & EMPLOYEE (10'x20')
   - 3.2. 14 LARGER SPACES (12'x25')
   - 3.3. 36 FUTURE SPACES TOTAL



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513.841.9100
emersiondesign.com

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ide
8899 BROOKSIDE AVE
SUITE 204
WEST CHESTER, OH 45069
(513) 671-8744

DATE | DESCRIPTION | MARK

DATE: 3/31/26
SHEET ISSUE: 100% SUBMITTAL
PROJECT NO: 022503
DESIGNED BY: T.FOSTER
DRAWN BY: ESM
CHECKED BY: ESM/KS
PROJECT MANAGER: T.TWEEY
SHEET SIZE: 30x42
PLOT SCALE: 1" = 40'

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MONROE, OH 45044

SITE PLAN - CIVIL ENGINEERING

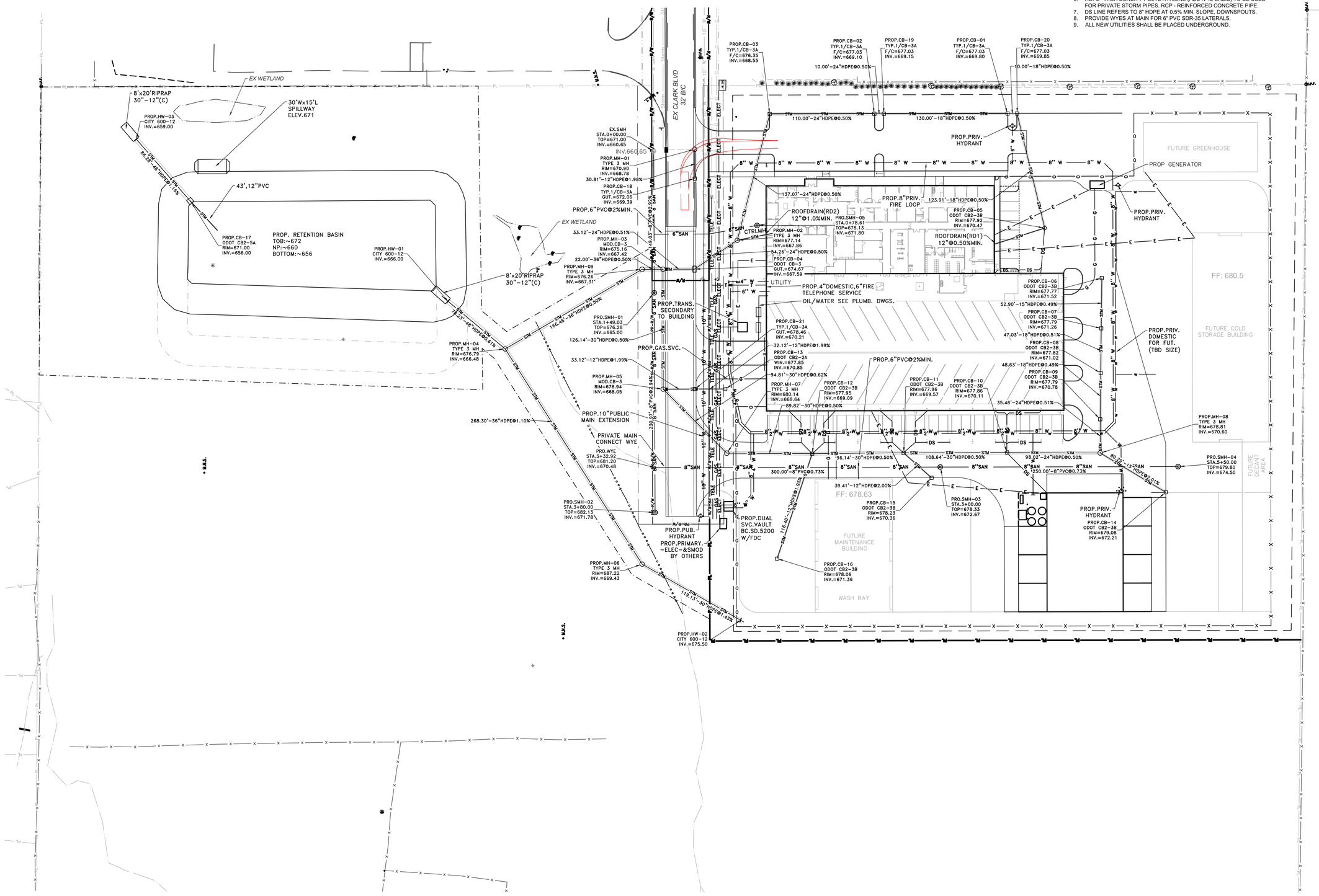
PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-103

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Plot Date: 11/24/2025 10:26:15 AM

UTILITY PLAN NOTES

1. -ELECT- LINE IS DUKE ENERGY PRIMARY INSTALLED BY OTHERS.
2. -TELE- LINE IS SUPPLIER INSTALL BY OTHERS WITH STREET.
3. -GAS- LINE IS DUKE GAS EXTENSION INSTALLED BY OTHERS.
4. -E- LINE IS PRIVATE ELECTRIC SECONDARY.
   4.1. SEE SITE ELECTRIC PLAN FOR SPECIFICS AND TELECOM.
5. FH - FIRE HYDRANT INCLUDES 8"x8"x6" TEE, VALVE, 6" EXTENSION.
6. HDPE - HIGH DENSITY POLYETHYLENE (ADS N-12 BASIS) TO BE USED FOR PRIVATE STORM PIPES. RCP - REINFORCED CONCRETE PIPE.
7. DS LINE REFERS TO 8" HDPE AT 0.5% MIN. SLOPE. DOWNSPOUTS.
8. PROVIDE WYES AT MAIN FOR 6" PVC SDR-35 LATERALS.
9. ALL NEW UTILITIES SHALL BE PLACED UNDERGROUND.



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310 Culvert St. Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

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8899 BROOKSIDE AVE
SUITE A
WEST CHESTER, OH 45069
(513) 671-8744

MARK	DESCRIPTION	DATE

DESIGNED BY: TFOSTER
DRAWN BY: DGEE
PROJECT MANAGER: TWEET
CHECKED BY: ELEMING
DATE: 3/31/26
SHEET ISSUE: 100%
PROJECT NO: 022503
PLOT SCALE: 1" = 40'
SHEET SIZE: 30x42

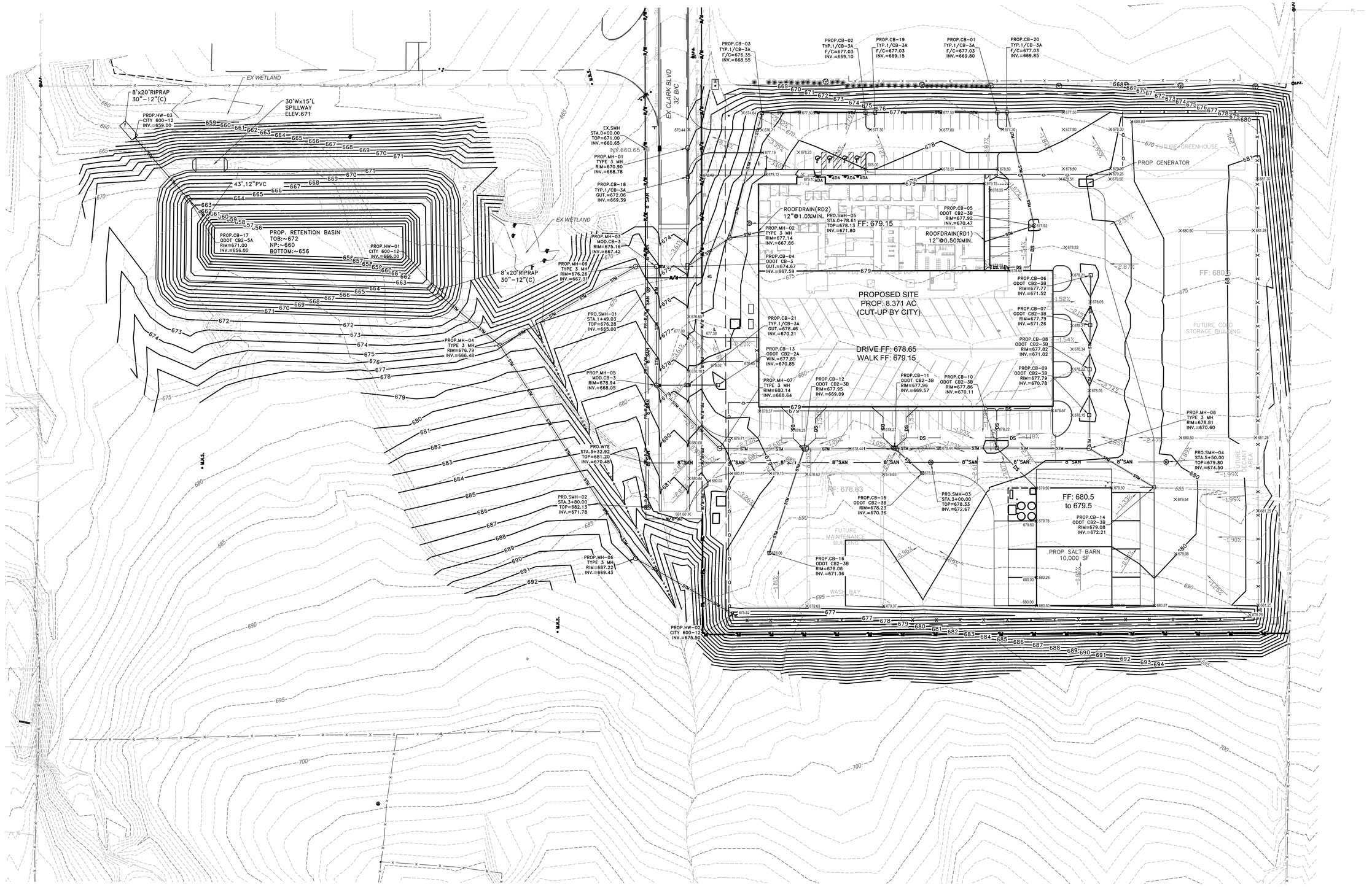
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UTILITY PLAN - CIVIL ENGINEERING

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-104

Plot Date: 11/24/2025 10:26:15 AM
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MINOR CONTOUR INTERVAL = 1'
MAJOR CONTOUR INTERVAL = 5'

40 20 0 80
40 120

GRAPHIC SCALE 1" = 40' (Full Size 30x42)

N

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Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

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8899 BROOKSIDE AVE
SUITE A
WEST CHESTER, OH 45069
(513) 671-8144

DESIGNED BY: T FOSTER
DRAWN BY: ECKT
CHECKED BY: EJGRAE
PROJECT MANAGER: T WEST
DATE: 3/31/26
SHEET ISSUE:
PROJECT NO: 022503
PLOT SCALE: 1" = 40'
SHEET SIZE: 30X42

DATE
DESCRIPTION
MARK

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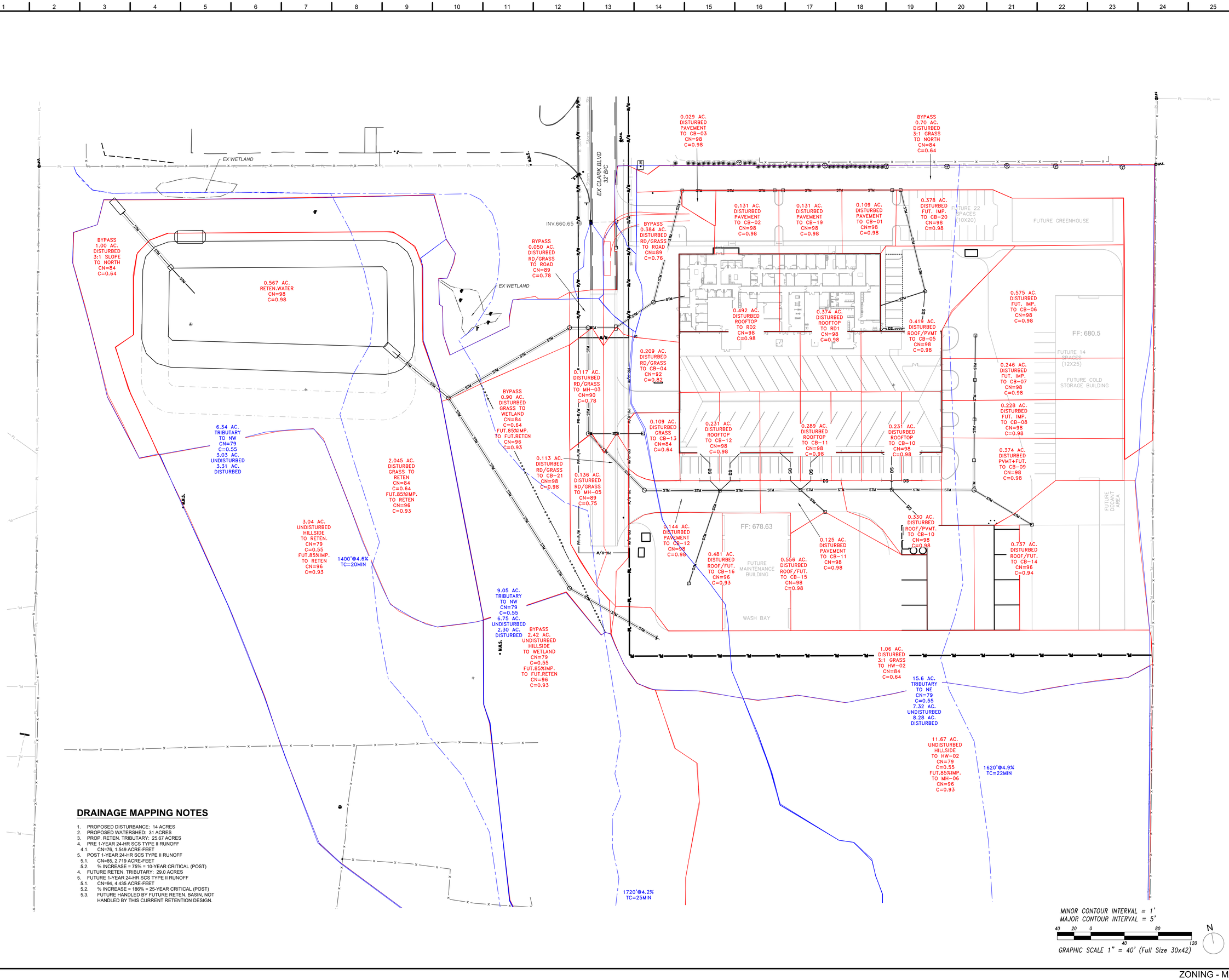
GRADING PLAN - CIVIL ENGINEERING

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-105

ZONING - MARCH 2026

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt



DRAINAGE MAPPING NOTES

1. PROPOSED DISTURBANCE: 14 ACRES
2. PROPOSED WATERSHED: 31 ACRES
3. PROP. RETEN. TRIBUTARY: 25.67 ACRES
4. PRE 1-YEAR 24-HR SCS TYPE II RUNOFF
   - 4.1. CN=76, 1.549 ACRE-FEET
5. POST 1-YEAR 24-HR SCS TYPE II RUNOFF
   - 5.1. CN=85, 2.719 ACRE-FEET
   - 5.2. % INCREASE = 75% = 10-YEAR CRITICAL (POST)
4. FUTURE RETEN. TRIBUTARY: 29.0 ACRES
5. FUTURE 1-YEAR 24-HR SCS TYPE II RUNOFF
   - 5.1. CN=94, 4.435 ACRE-FEET
   - 5.2. % INCREASE = 186% = 25-YEAR CRITICAL (POST)
   - 5.3. FUTURE HANDLED BY FUTURE RETEN. BASIN, NOT HANDLED BY THIS CURRENT RETENTION DESIGN.

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Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE A
WEST CHESTER, OH 45069
(513) 671-8144

DATE
DESCRIPTION
MARK

DESIGNED BY: T.FOSTER
DRAWN BY:
CHECKED BY: B.SIMONE
PROJECT MANAGER: T. WILEY
DATE: 3/31/26
SHEET ISSUE:
PROJECT NO: 02503
PLOT SCALE: 1" = 40'
SHEET SIZE: 30x42

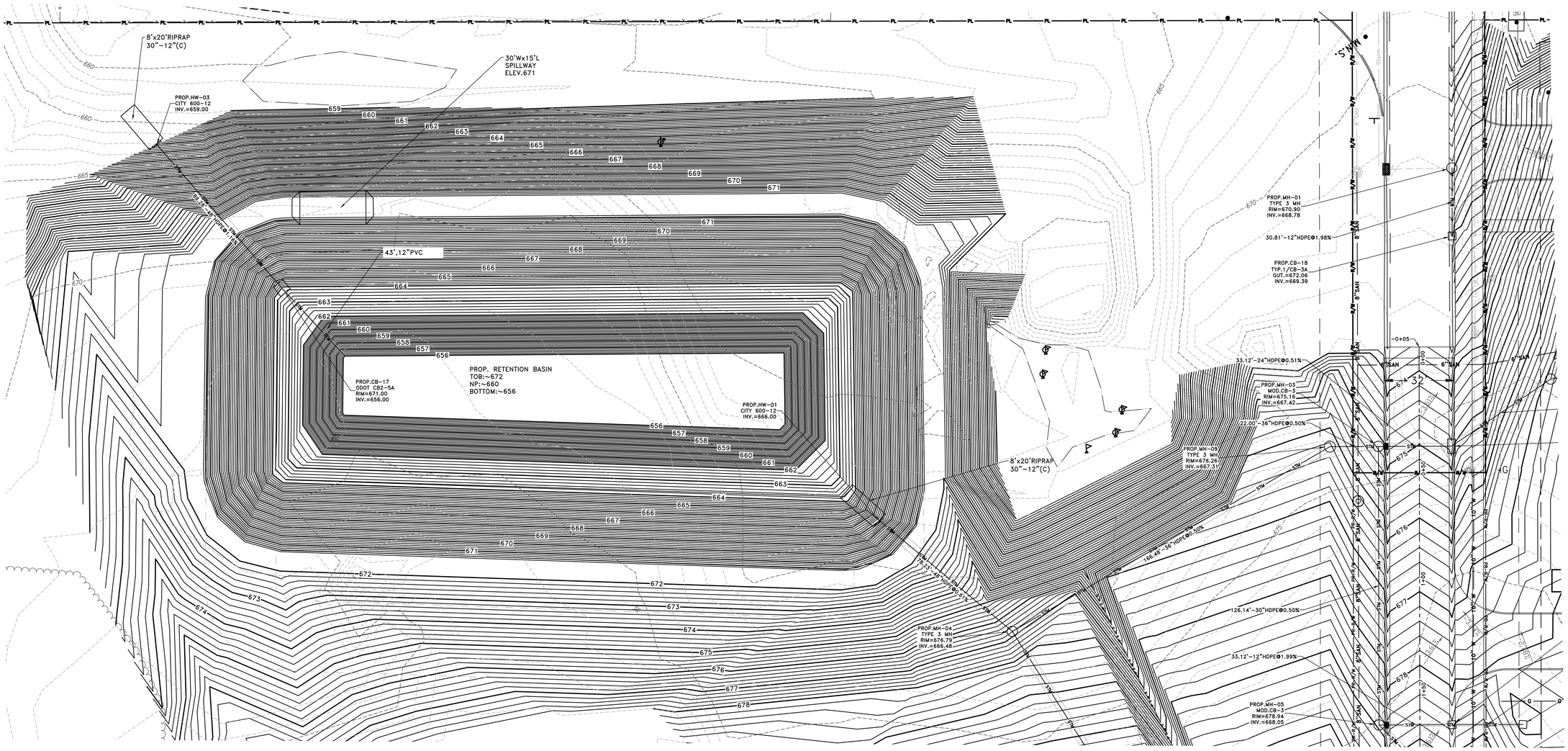
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MONROE, OH 45044

DRAINAGE MAP - CIVIL ENGINEERING

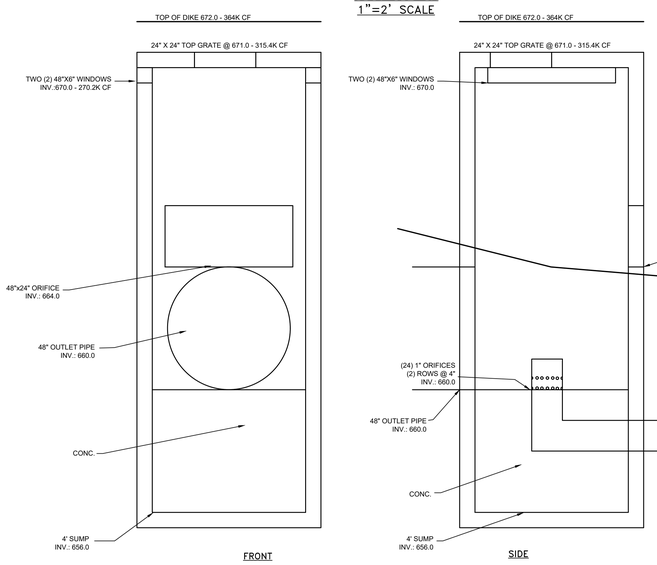
PRELIMINARY
NOT FOR
CONSTRUCTION

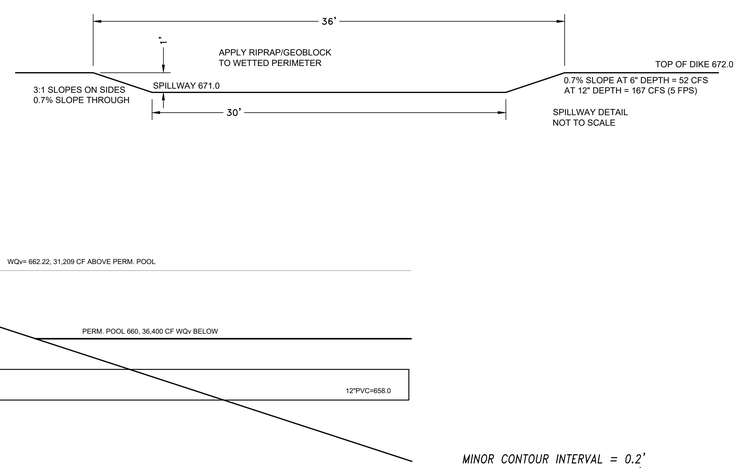
SHEET IDENTIFICATION
C-106

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt



DETENTION OUTLET CB-17
ODOT CB2-5A
1"=2' SCALE





MINOR CONTOUR INTERVAL = 0.2'
MAJOR CONTOUR INTERVAL = 1'

20 10 0 40 20 60

GRAPHIC SCALE 1" = 20' (Full Size 30x42)

N

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310 Culvert St, Suite 100
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emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
8899 BROOKSIDE AVE
SUITE 200-A
WEST CHESTER, OH 45069
(513) 671-8744

DESIGNED BY: T FOSTER
DRAWN BY: AUTHOR
PROJECT MANAGER: T TWEY
SHEET SIZE: 30x42
CHECKED BY: CLIENT
PROJECT NO: 022503
DATE: 3/31/26
SHEET ISSUE:
PLOT SCALE: 1" = 20'

MARK | DESCRIPTION | DATE

MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

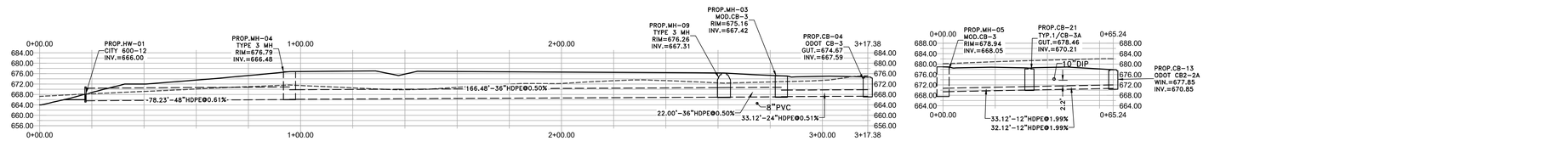
RETENTION - CIVIL ENGINEERING

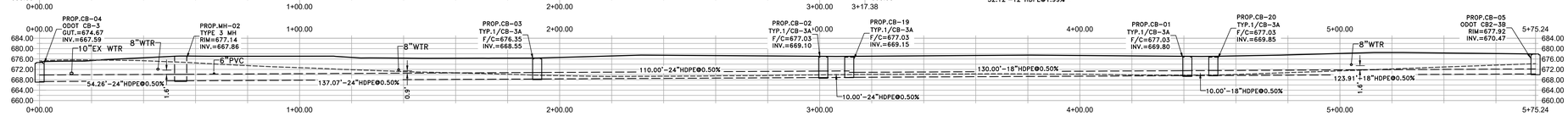
PRELIMINARY NOT FOR CONSTRUCTION

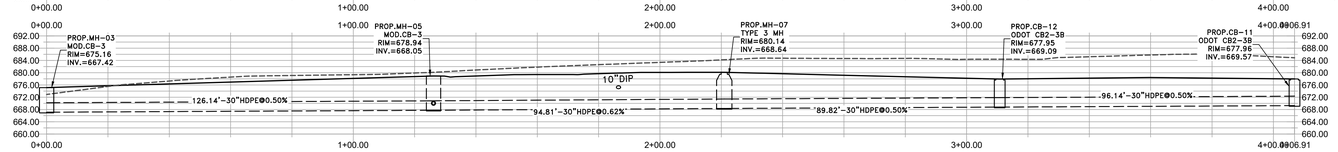
SHEET IDENTIFICATION
C-107

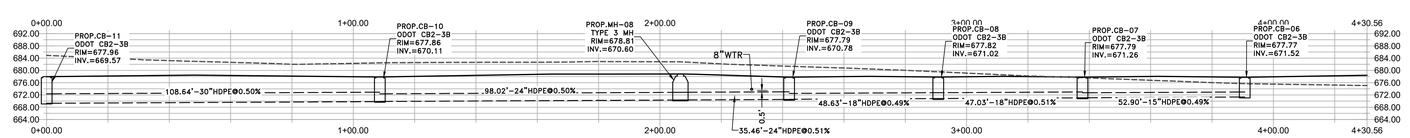
ZONING - MARCH 2026

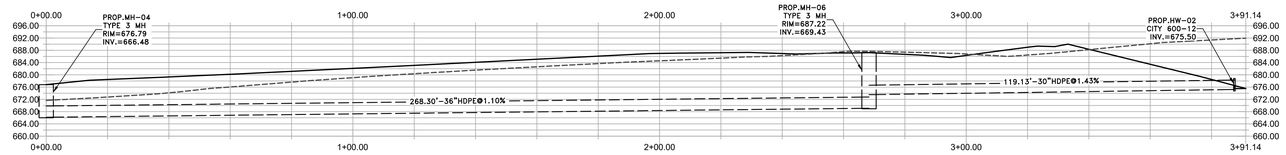
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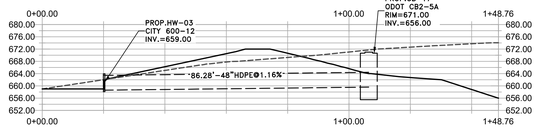












GRAPHIC SCALE 1" = 20' (Full Size 30x42)

N

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INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE 204
WEST CHESTER, OH 45069
(513) 671-8144

DATE

DESCRIPTION

MARK

DESIGNED BY: T FOSTER
DRAWN BY: T FOSTER
CHECKED BY: B BISHOP
PROJECT MANAGER: T. WILEY
DATE: 3/31/26
SHEET ISSUE: PSD
PROJECT NO.: 022503
SHEET SIZE: 30x42
PLOT SCALE: 1" = 20'

MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

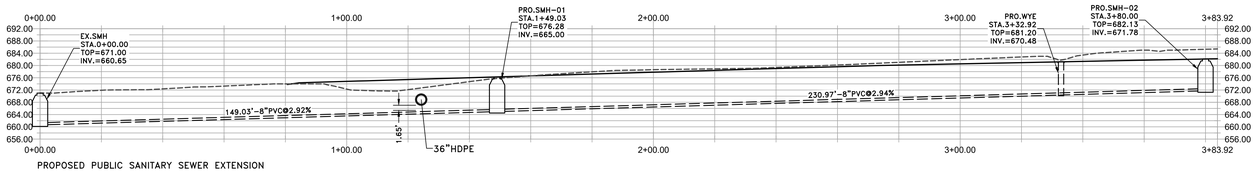
UTILITY PROFILES - STORM PIPE

PRELIMINARY NOT FOR CONSTRUCTION

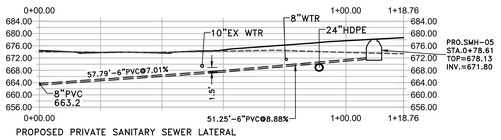
SHEET IDENTIFICATION
C-108

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Muni Svcs Ctr_R24.rvt

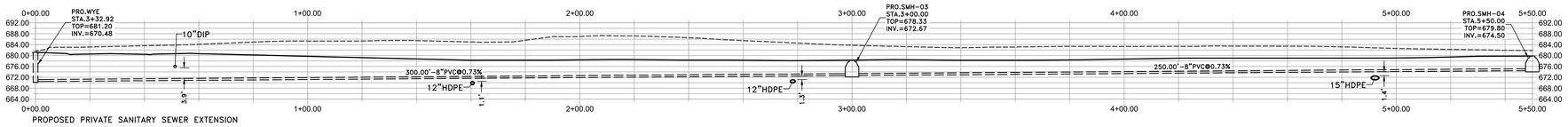
ZONING - MARCH 2026



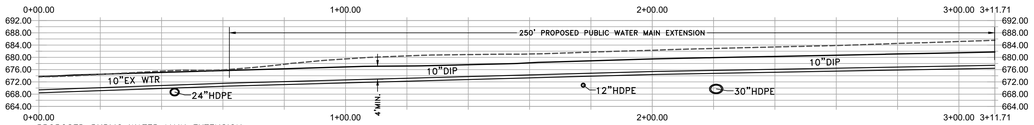
PROPOSED PUBLIC SANITARY SEWER EXTENSION



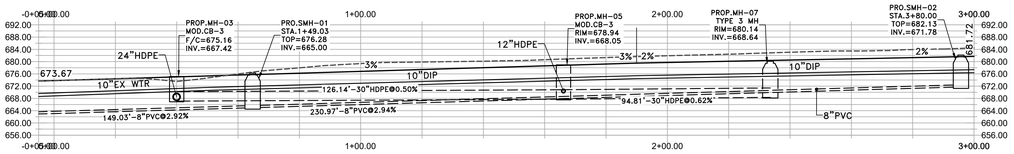
PROPOSED PRIVATE SANITARY SEWER LATERAL



PROPOSED PRIVATE SANITARY SEWER EXTENSION



PROPOSED PUBLIC WATER MAIN EXTENSION



PROPOSED STREET EXTENSION PROFILE

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513.841.9100
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INFRASTRUCTURE DEVELOPMENT ENGINEERING
8899 BROOKSIDE AVE
SUITE 4
WEST CHESTER, OH 45069
(513) 671-8144

DATE

DESCRIPTION

MARK

DESIGNED BY: T.FOSTER
DRAWN BY: STAFF
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30x42
CHECKED BY: E.BISANZ
DATE: 3/11/26
SHEET ISSUE: ZBD
PROJECT NO: 022503
PLOT SCALE: 1" = 20'

MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

UTILITY PROFILES - SEWER WATER

PRELIMINARY NOT FOR CONSTRUCTION

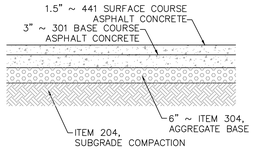
SHEET IDENTIFICATION
C-109

GRAPHIC SCALE 1" = 20' (Full Size 30x42)

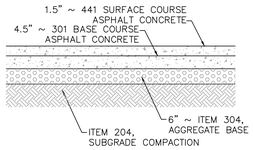
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Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt

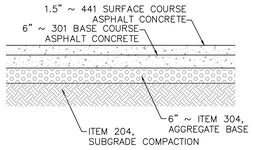
LIGHT DUTY LD ASPHALT
PARKING STALLS

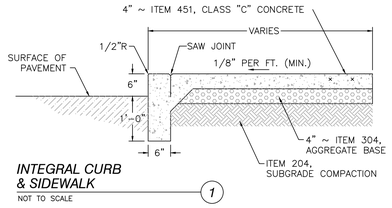


MEDIUM DUTY MD ASPHALT
DRIVE AISLES (200K ESALS)



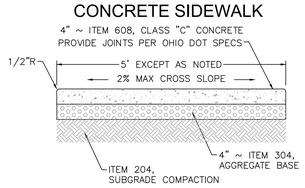
HEAVY DUTY HD ASPHALT
DRIVE AISLES (500K ESALS)

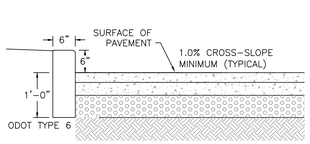




INTEGRAL CURB & SIDEWALK (1)
NOT TO SCALE

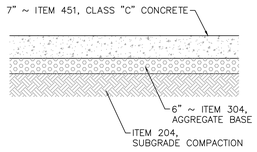
CONCRETE SIDEWALK



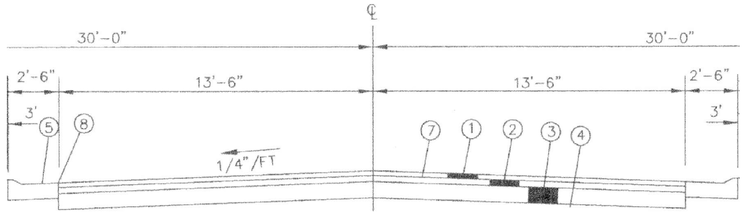


VERTICAL TYPE 6 CURB (1)
NOT TO SCALE

CONCRETE PAVEMENT & GENERIC CONC. PADS



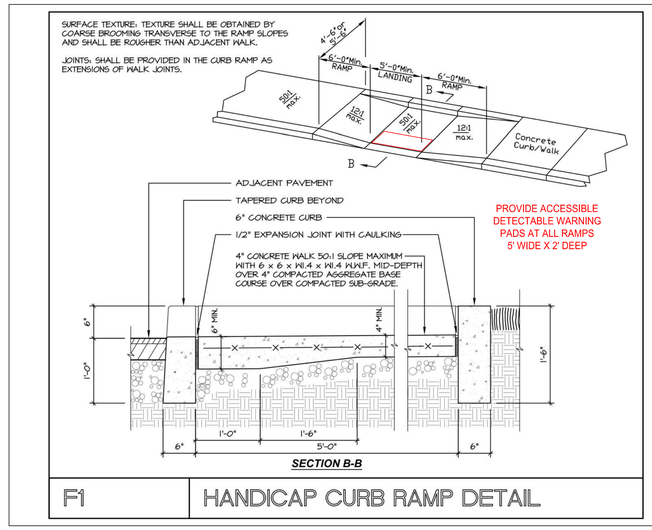
1995 SUBDIVISION INDUSTRIAL STREET SECTION
(FOR REFERENCE AS FAR AS WHAT WAS BUILT)



LEGEND

(1) 1-INCH SURFACE COURSE OF ITEM 404, ASPHALTIC CONCRETE (85-100 OR AC 20) SEE NOTE #4.
(2) 2-1/2 INCH LEVELING COURSE OF ITEM 403, ASPHALTIC CONCRETE (85-100 OR AC 20)
(3) 8 INCH BASE COURSE OF ITEM 301, BITUMINOUS AGGREGATE BASE
(4) COMPACTED SUBGRADE, ITEM 203.13
(5) ROLL TYPE CURB AND GUTTER, ITEM 609, (BUTLER COUNTY STANDARD C-1)
(6) SEEDING AND MULCHING, ITEM 659
(7) TACK COAT, ITEM 407, TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YD. SEE NOTE #4.
(8) TACK COAT SHALL BE APPLIED TO FRONT FACE OF CURB PRIOR TO THE INSTALLATION OF 301 BITUMINOUS AGGREGATE BASE. ALSO TO BE APPLIED TO CURB JOINT AFTER THE INSTALLATION OF 403 LEVELING COURSE.

FOLLOW CITY PAVEMENT SECTION ON C-114 EXCEPT THAT SECTION SHALL BE 32 FT WIDE BACK OF CURB.

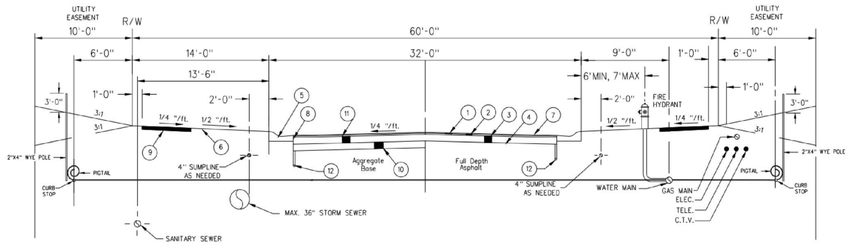


SECTION B-B

F1 — HANDICAP CURB RAMP DETAIL

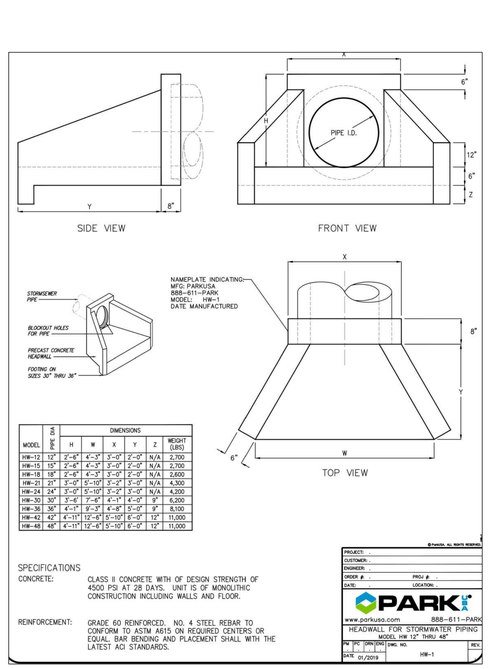
CURRENT COUNTY INDUSTRIAL SECTION (FOR REFERENCE)

LEGEND
(1) One inch surface course of Item 448 asphaltic concrete, see note *4.
(2) Two inches leveling course of Item 448 asphaltic concrete
(3) Eight inch base course of Item 301 bituminous aggregate base.
(4) Compacted subgrade, Item 203.13.
(5) Roll type curb and gutter, Item 609 (Butler County Standard C-1).
(6) Seeding and mulching Item 659.
(7) Tack coat, Item 407 - to be applied at a rate of 0.05 gal. per sq. yard, see note *4.
(8) Tack coat shall be applied to front face of curb prior to the installation of 301 bituminous aggregate base. Also to be applied to curb joint after the installation of 403 leveling course.
(9) Four inch thick class "C" concrete sidewalk, five feet wide, Item 608. Walk to be 1/2" higher than sod.
(10) Six inch base course of Item 304 aggregate base.
(11) Six inch base course of Item 301 bituminous aggregate base.
(12) Item 605, 4" underdrain. Connect underdrain to front face of nearest catch basin.



LOCAL INDUSTRIAL STREET

FOLLOW CITY PAVEMENT SECTION ON C-114 EXCEPT THAT SECTION SHALL BE 32 FT WIDE BACK OF CURB.

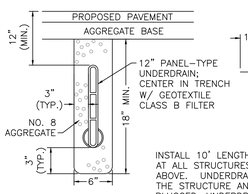


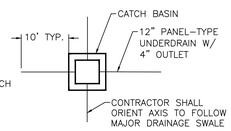
MODEL	PIPE DIA	DIMENSIONS H	W	X	Y	Z	WEIGHT (LBS)
HW-12	12"	2'-6"	4'-3"	3'-0"	2'-0"	N/A	2,700
HW-15	15"	2'-6"	4'-3"	3'-0"	2'-0"	N/A	2,700
HW-18	18"	2'-6"	4'-3"	3'-0"	2'-0"	N/A	2,600
HW-21	21"	3'-0"	5'-10"	3'-2"	3'-0"	N/A	4,300
HW-24	24"	3'-0"	5'-10"	3'-2"	3'-0"	N/A	4,200
HW-30	30"	3'-6"	7'-8"	4'-1"	4'-0"	8"	6,200
HW-36	36"	4'-1"	9'-3"	4'-8"	5'-0"	9"	8,100
HW-42	42"	4'-11"	12'-6"	5'-10"	6'-0"	12"	11,000
HW-48	48"	4'-11"	12'-6"	5'-10"	6'-0"	12"	11,000

SPECIFICATIONS
CONCRETE: CLASS II CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION INCLUDING WALLS AND FLOOR.
REINFORCEMENT: GRADE 60 REINFORCED. NO. 4 STEEL REBAR TO CONFORM TO ASTM A615 ON REQUIRED CENTERS OR EQUAL. BAR BENDING AND PLACEMENT SHALL WITH THE LATEST ACI STANDARDS.

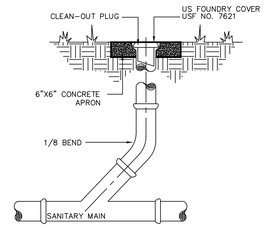
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PROJECT:
CUSTOMER:
ENGINEER:
ORDER #: PROJ #:
DATE: LOCATION:
PARK
www.parkuso.com 888-611-PARK
HEADWALL FOR STORMWATER PIPING
MODEL H/W 12" THRU 48"
Dgn. By: DRAWING NO. REV.
DATE: 01/2019 HW-1

CATCH BASIN FINGER DRAINS



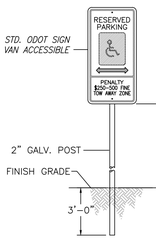


INSTALL 10' LENGTHS OF 12" PANEL-TYPE UNDERDRAIN AT ALL STRUCTURES WITHIN PAVEMENT AS SHOWN ABOVE. UNDERDRAINS SHALL SLOPE AT 1.0% TOWARD THE STRUCTURE AND SHALL HAVE THE UPSTREAM END PLUGGED. UNDERDRAIN SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC AFTER INSTALLATION.

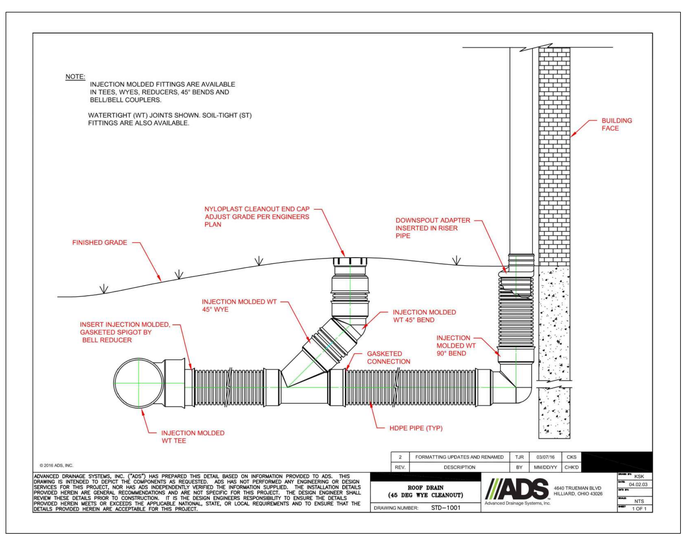


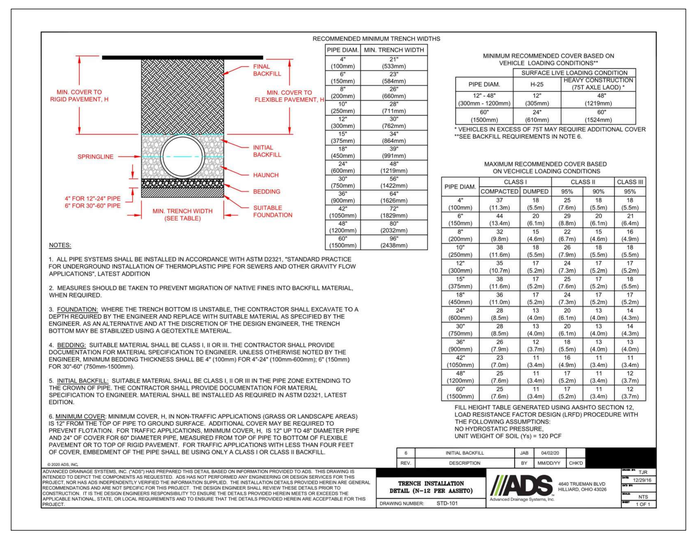
6" SEWER CLEANOUT
N.T.S.

ACCESSIBILITY SIGNAGE/ VAN ACCESSIBLE PLACKARD



NOTE: SIGN TO CONFORM TO ALL CURRENT ANSI REGULATIONS





RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm), 6" (150mm) FOR 30"-60" (750mm-1500mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS*

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (757 AXLE LAOD) *
12"-48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

* VEHICLES IN EXCESS OF 757 MAY REQUIRE ADDITIONAL COVER
**SEE BACKFILL REQUIREMENTS IN NOTE 6.

MAXIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	CLASS I COMPACTED	CLASS I DUMPED	CLASS II 95%	CLASS II 90%	CLASS III 95%
4" (100mm)	37 (11.3m)	18 (5.5m)	25 (7.6m)	18 (5.5m)	18 (5.5m)
6" (150mm)	44 (13.4m)	20 (6.1m)	29 (8.8m)	20 (6.1m)	21 (6.4m)
8" (200mm)	52 (9.8m)	15 (4.6m)	22 (6.7m)	15 (4.6m)	16 (4.9m)
10" (250mm)	38 (11.6m)	18 (5.5m)	26 (7.9m)	18 (5.5m)	18 (5.5m)
12" (300mm)	45 (10.7m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
15" (375mm)	38 (11.6m)	17 (5.2m)	25 (7.6m)	17 (5.2m)	18 (5.5m)
18" (450mm)	36 (11.0m)	17 (5.2m)	24 (7.3m)	17 (5.2m)	17 (5.2m)
24" (600mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
30" (750mm)	28 (8.5m)	13 (4.0m)	20 (6.1m)	13 (4.0m)	14 (4.3m)
36" (900mm)	26 (7.9m)	12 (3.7m)	18 (5.5m)	13 (4.0m)	13 (4.0m)
42" (1050mm)	23 (7.0m)	11 (3.4m)	16 (4.9m)	11 (3.4m)	11 (3.4m)
48" (1200mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)
60" (1500mm)	25 (7.6m)	11 (3.4m)	17 (5.2m)	11 (3.4m)	12 (3.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE.
UNIT WEIGHT OF SOIL (γ_s) = 120 PCF

6 INITIAL BACKFILL JAB 04/02/20
REV. DESCRIPTION BY MM/DD/YY CHK'D
© 2020 ADS, INC.
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THAT THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.
TRENCH INSTALLATION DETAIL (N-12 PER AASHTO)
DRAWING NUMBER: STD-101
ADS 4640 TRUEMAN BLVD HILLIARD, OHIO 43026 Advanced Drainage Systems, Inc.
DRN BY: TJR
SIZE: ANSI B
SCALE: NTS
SHEET: 1 OF 1

N

emersion DESIGN
310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
8899 BROOKSIDE AVE
SUITE 4
WEST CHESTER, OH 45069
(513) 671-8144

DATE
DESCRIPTION
MARK

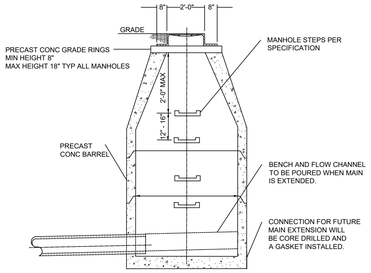
DESIGNED BY: T FOSTER
DRAWN BY: T VOLET
PROJECT MANAGER: T VOLET
CHECKED BY: T FOSTER
SHEET SIZE: 30x42
DATE: 3/31/26
SHEET ISSUE: PRELIMINARY
PROJECT NO: 02263
PLOT SCALE: 1" = 40'

MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044
SITE PLAN DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-110

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/22503_A-Monroe Main Svcs Ctr_R24.rvt

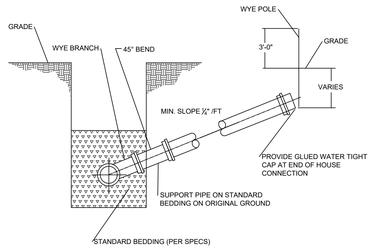


DEAD END MANHOLE DETAIL

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6190

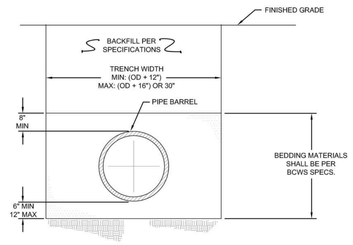


HOUSE CONNECTION FOR SHALLOW SEWER

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6290

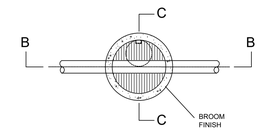


TYPICAL TRENCH DETAIL SEWER INSTALLATION

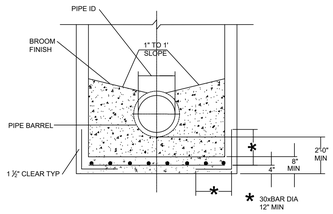
BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

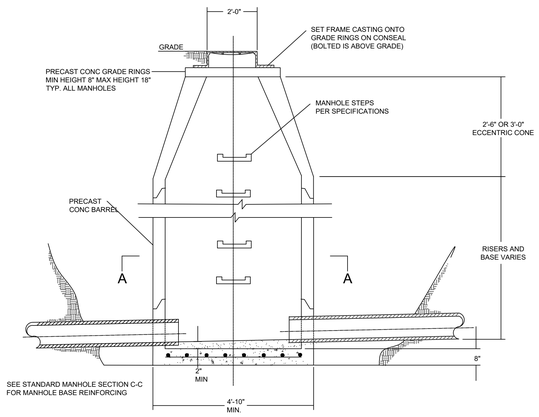
6270



SECTION A - A



SECTION C - C



SECTION B - B

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6110
6200

STANDARD/CONTROL MANHOLE

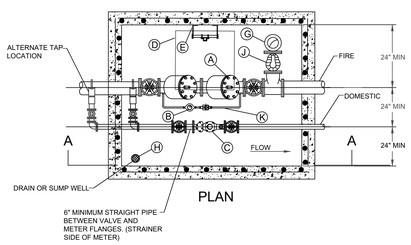
OMNI METER INSTALLATION INSTRUCTIONS

1. WHEN INSTALLING SENSUS OMNI 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.

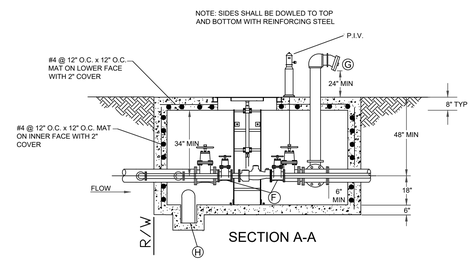
3. INSTALL NONCONCENTRIC REDUCERS, CHECK VALVES, BACKFLOW PREVENTERS, PRV (PRESSURE REDUCING VALVES), THROTTLING DEVICES, ALTITUDE VALVES NO CLOSER THAN 4 PIPE DIAMETERS DOWNSTREAM OF THE METER. ALWAYS AVOID PLACING ANY OF THESE DEVICES UPSTREAM OF ANY METER SINCE THE PLACEMENT WILL PUT THE METER IN A LOW PRESSURE ZONE THUS POSSIBLY CAUSING INCONSISTENT ACCURACY AND REDUCED LONGEVITY.

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



PLAN

METER SIZE & TYPE	MIN. 'C'
1 1/2" T2 OMNI	13"
1 1/2" C2 OMNI	13"
2" T2 OMNI	17"
2" C2 OMNI	15 1/4"
3" T2 OMNI	19"
3" C2 OMNI	17"
4" T2 OMNI	23"
4" C2 OMNI	20"
6" T2 OMNI	27"
6" C2 OMNI	24"



SECTION A-A

A) FIRE SERVICE BACKFLOW PREVENTION DEVICE: WATTS #709-DCDA, AMES #3000 DCDA, OR EQUAL.

B) BY-PASS METER (¾" OR 1" PURCHASED FROM BUTLER CO.). NOTE: BY-PASS LINE REQUIRES A BACKFLOW DEVICE SIMILAR TO THE WATTS #709.

C) DOMESTIC METER FURNISHED BY BUTLER CO. 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 #W1S3636, 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.

J) CHECK VALVE WITH AUTOMATIC BALL DRIP.

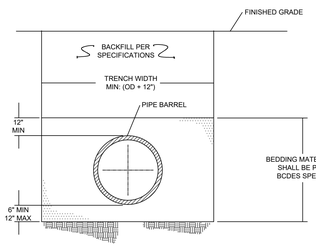
K) CONTRACTOR/ PLUMBER TO VERIFY LAYING LENGTH OF BACKFLOW DEVICE, VALVES, METERS ETC.

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
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5200

DUAL SERVICE SETTING W/ BACKFLOW DEVICE

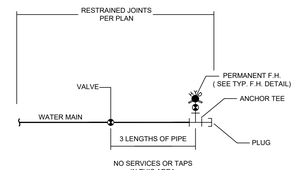


TYPICAL TRENCH DETAIL WATER MAIN INSTALLATION

BUTLER COUNTY \
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5280

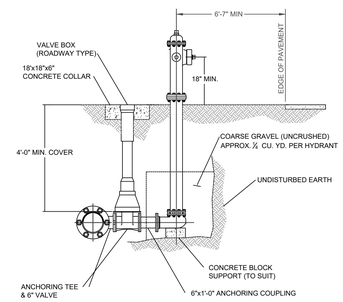


DEAD END DETAIL W/ PERMANENT F.H.

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5130



NOTES:

1.) VERIFY LOCATION OF F.H. RELATIVE TO WATER MAIN ON PLANS.

2.) CHECK STREET DETAILS FOR RELATIONSHIP BETWEEN MAIN, STREET AND F.H.

TYPICAL FIRE HYDRANT INSTALLATION

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5110

emersion DESIGN
310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE 4
WEST CHESTER, OH 45069
(513) 671-8144

DESIGNED BY: T.FOSTER
DRAWN BY: T.FOSTER
CHECKED BY: E.BOING
PROJECT MANAGER: T. WILEY
DATE: 3/12/26
SHEET ISSUE: ZONING
PROJECT NO: 022503
SHEET SIZE: 30x42
PLOT SCALE: 1" = 40'

DATE | DESCRIPTION | MARK

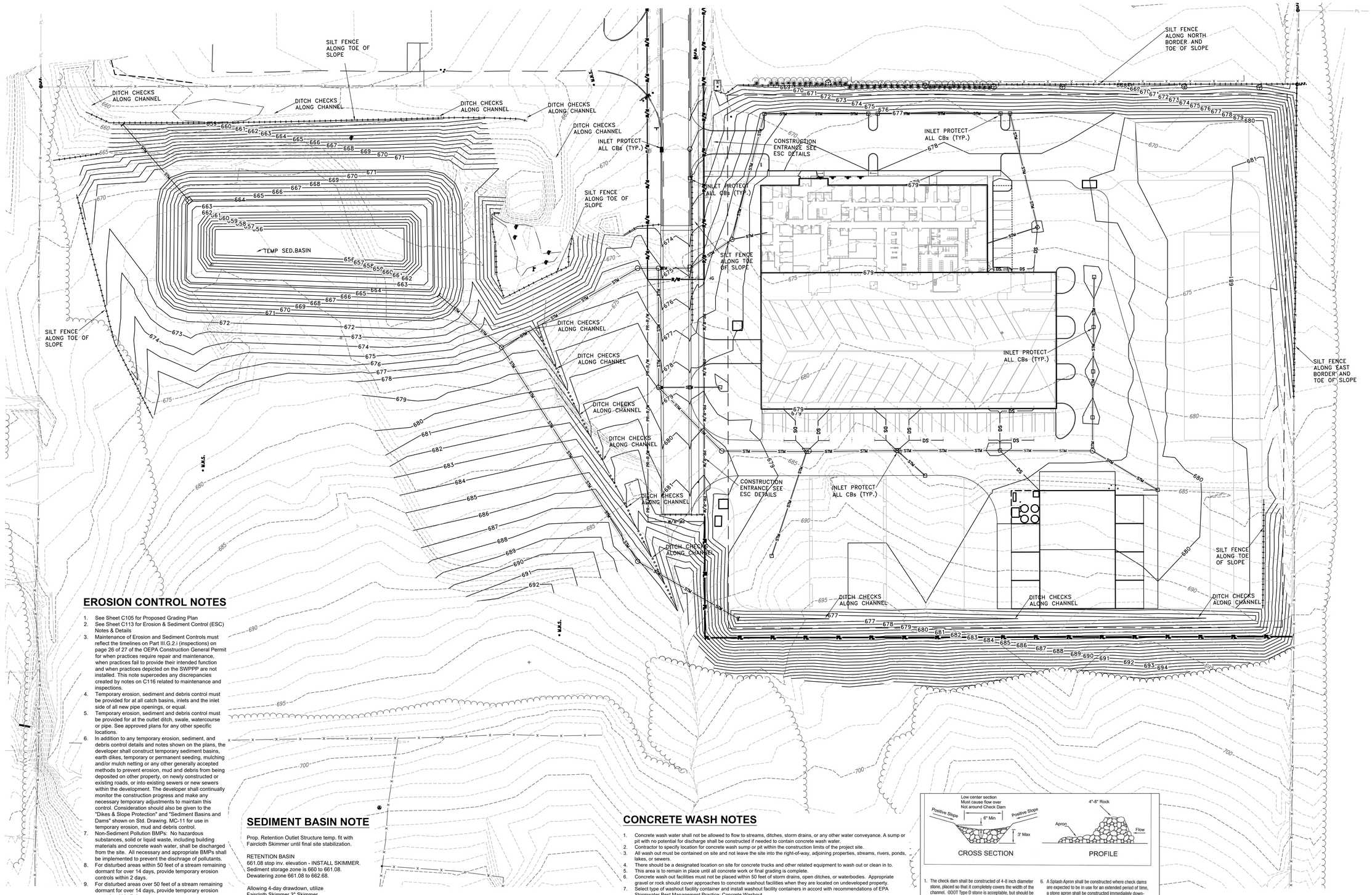
MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

COUNTY WATER SEWER DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-111

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt


SILT FENCE ALONG TOE OF SLOPE
DITCH CHECKS ALONG CHANNEL
TEMP SED.BASIN
INLET PROTECT ALL CBs (TYP.)
CONSTRUCTION ENTRANCE SEE ESC DETAILS
SILT FENCE ALONG NORTH BORDER AND TOE OF SLOPE
SILT FENCE ALONG EAST BORDER AND TOE OF SLOPE
SILT FENCE ALONG TOE OF SLOPE
INLET PROTECT ALL CBs (TYP.)
CONSTRUCTION ENTRANCE SEE ESC DETAILS
INLET PROTECT ALL CBs (TYP.)
SILT FENCE ALONG TOE OF SLOPE
DITCH CHECKS ALONG CHANNEL
DITCH CHECKS ALONG CHANNEL
DITCH CHECKS ALONG CHANNEL

CONSTRUCTION SEQUENCE

1. PRE-CONSTRUCTION MEETING TO REVIEW THE PLAN AND CONSTRUCTION SEQUENCING BEFORE EARTHWORK IS PERMITTED.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S) FOR CONSTRUCTION TRAFFIC. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM EXITING TRAFFIC, TEMPORARY WATER STORAGE TANKS WITH HOSES SHALL BE PROVIDED AT CONSTRUCTION TRAFFIC EXIT POINTS AND VEHICLE TIRES SHALL BE WASHED BEFORE EXITING ON PUBLIC ROADS. SILT FROM THIS WASHING OPERATION SHALL BE INTERCEPTED AND TRAPPED BEFORE WASHWATER IS ALLOWED TO BE DISCHARGED OFFSITE.
3. DUST ON SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
4. INSTALL PERIMETER EROSION CONTROL MEASURES. INITIAL CLEARING AND GRUBBING TO GAIN ACCESS, AND INSTALLATION OF SILT FENCE, AS SHOWN ON PLANS, WITHIN SEVEN (7) DAYS OF CLEARING AND GRUBBING. INSTALL PERIMETER FILTER FABRIC FENCE AND BEGIN CLEARING & GRUBBING. EXERCISE CARE NOT TO DAMAGE VALUABLE TREES OR DISTURB DESIGNATED BUFFER ZONES.
5. PERFORM CLEARING, GRUBBING, AND TOPSOIL STOCKPILING AS REQUIRED. CONSTRUCT ALL SEDIMENT BASINS, TRAPS, AND DIVERSIONS WITHIN 7 DAYS OF FIRST GRUBBING. INSTALL TREE PROTECTION FENCE IMMEDIATELY AFTER TREE CLEARING IS COMPLETE. CONTINUE LAND CLEARING AND GRADING WITH KEY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. ONCE A SCHEDULED DEVELOPMENT AREA IS CLEARED, GRADING SHOULD FOLLOW IMMEDIATELY SO THAT PROTECTIVE GROUND COVER CAN BE REESTABLISHED QUICKLY. DO NOT LEAVE ANY AREA BARE AND EXPOSED FOR EXTENDED PERIODS. LEAVE ADJOINING AREAS PLANNED FOR DEVELOPMENT, OR TO BE USED FOR BORROW OR DISPOSAL, UNDISTURBED FOR AS LONG AS POSSIBLE TO SERVE AS NATURAL BUFFER ZONES.
6. IMMEDIATELY AFTER LAND CLEARING, APPLY SURFACE STABILIZATION ON GRADED AND OTHER DISTURBED AREAS. STABILIZE ANY DISTURBED AREA WITHIN 2 DAYS WHERE ACTIVE CONSTRUCTION WILL NOT TAKE PLACE FOR 21 DAYS BY TEMPORARY SEEDING AND/OR MULCHING OR BY OTHER SUITABLE MEANS. INSTALL PERMANENT STABILIZATION MEASURES IMMEDIATELY AFTER FINAL GRADING. TEMPORARY SEEDING AND/OR MULCHING MAY BE NECESSARY IF WEATHER CONDITIONS DETERIORATE, WITH PERMANENT MEASURES DELAYED TEMPORARILY.
7. DURING EMBANKMENT OPERATIONS, TEMPORARY DIVERSION DITCHES/BERMS AND TEMPORARY SLOPE DRAINS SHOULD BE INSTALLED AT THE TOP OF THE SLOPE TO MINIMIZE EROSION OF THE FILL FACE.
8. BEGIN SITE GRADING OPERATIONS AND CONSTRUCTION. INSTALL INLET PROTECTION FOR STORM DRAINS AS SOON AS THE DRAIN IS FUNCTIONAL TO TRAP SEDIMENT ON-SITE IN SHALLOW POOLS AND TO ALLOW FLOOD FLOWS TO SAFELY ENTER THE STORM DRAINAGE SYSTEM.
9. INSTALL ALL STORM SEWER PIPES AND UNDERGROUND UTILITY LINES AS SHOWN ON THE PLANS WITH APPROPRIATE EROSION CONTROL MEASURES TO ELIMINATE SILTATION FROM ENTERING PIPE SYSTEMS.
10. WHEN APPLICABLE, INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
11. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. IF APPLICABLE, NOTE THAT EROSION CONTROL AROUND INLETS CANNOT BE REMOVED UNTIL PAVING OPERATIONS ARE COMPLETE.
12. INSTALL FINAL PAVEMENT AS SHOWN ON THE PLANS.
13. CARRY OUT FINAL GRADING, SEEDING, AND PLANTING. LANDSCAPING AND FINAL STABILIZATION IS THE LAST MAJOR CONSTRUCTION PHASE. ALL DISTURBED AREAS SHOULD HAVE PERMANENT MEASURES APPLIED WITHIN THIRTY (30) DAYS OF FINISHING FINAL GRADE. ALL TEMPORARY STRUCTURES SHOULD BE REMOVED AFTER PERMANENT STRUCTURES ARE IN PLACE AND STABILIZED. BORROW/DISPOSAL AREAS SHOULD BE PERMANENTLY VEGETATED OR OTHERWISE STABILIZED. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
14. INSPECT STORM SEWERS PRIOR TO TURNOVER. REMOVE SEDIMENT AS NECESSARY.
15. REGULAR MAINTENANCE INSPECTION AND REPAIR OF EROSION AND SEDIMENT CONTROL DEVICES. MAINTENANCE: THE CONTRACTOR SHALL PLACE ALL SEDIMENTATION AND EROSION CONTROL FEATURES PRIOR TO STARTING CONSTRUCTION OPERATIONS IN A PARTICULAR AREA. IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF A BARRIER DURING CONSTRUCTION TO FACILITATE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED PERIODICALLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES, IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE STRUCTURE OR FEATURE AT NO ADDITIONAL COST TO THE OWNER.
16. PRE-WINTER STABILIZATION MEETING IF PROJECT IS TO BE THROUGH THE WINTER.

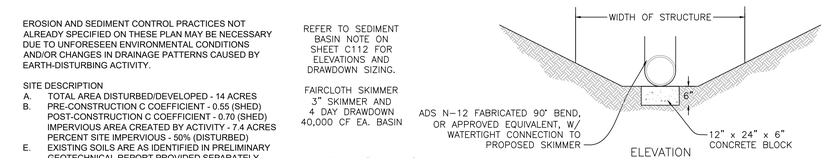
EROSION CONTROL NOTES

1. ALL PROPERTIES ADJACENT TO THE AREAS OF SOIL-DISTURBING ACTIVITY, INCLUDING BUT NOT LIMITED TO PRIVATE PROPERTIES, NATURAL AND ARTIFICIAL WATERWAYS, WETLANDS, STORM SEWERS AND PUBLIC LANDS, SHALL BE PROTECTED, TO THE MAXIMUM EXTENT PRACTICABLE, FROM SOIL EROSION AND SEDIMENT RUNOFF AND DRAINAGE.
2. CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PRACTICES USED TO SATISFY THIS REQUIREMENT SHALL CONFORM, AS A MINIMUM, TO STATE OF OHIO STANDARDS AS SET FORTH IN THE MOST CURRENT EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, DEFINED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF SOIL AND WATER CONSERVATION AND NATURAL RESOURCE CONSERVATION SERVICE AND SHALL CONFORM TO THE MOST CURRENT OHIO ENVIRONMENTAL PROTECTION AGENCY, OHIO REVISED CODE CHAPTER 6111 REQUIREMENTS.
3. EROSION AND SEDIMENT CONTROL PLAN APPROVALS ISSUED IN ACCORDANCE WITH THESE RULES DO NOT RELIEVE THE OWNER OF RESPONSIBILITY FOR OBTAINING ALL OTHER NECESSARY PERMITS AND/OR APPROVALS FROM FEDERAL, STATE, AND/OR COUNTY AGENCIES. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE AND LOCAL OFFICIALS. IF REQUIREMENTS VARY, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
4. EROSION AND SEDIMENT CONTROL PRACTICES AT THE SITE AND AS IDENTIFIED IN THIS PLAN SHALL COMPLY WITH THE FOLLOWING:

A. RESERVED
B. LIMITS TO CLEARING AND GRADING, AS SHOWN ON THESE PLANS, SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING, FENCING ETC.
C. INSTALL EROSION AND SEDIMENT PERIMETER CONTROLS AS A FIRST ACTION OF CONSTRUCTION AS SPECIFIED BY CONSTRUCTION SEQUENCE. THIS SHALL INCLUDE AND IS NOT LIMITED TO PROTECTIVE BMP'S FOR STREAM CORRIDORS AND CROSSINGS, WETLANDS, SITE ENTRANCE, SEDIMENT TRAPS AND BASINS, BARRIERS, AND DIVERSION DIKES.
D. CONCENTRATED STORM WATER RUNOFF SHALL PASS THROUGH A SEDIMENT CONTROL DEVICE BEFORE EXITING THE SITE BOUNDARIES. CONCENTRATED RUNOFF FROM BARE SOIL AREAS SHALL BE DIVERTED INTO A SETTLING POND OR SEDIMENT CONTROL STRUCTURE, OR OTHER APPROVED SEDIMENT BARRIER BEFORE LEAVING THE SITE.
E. EARTHEN STRUCTURES SUCH AS DAMS, BASINS, STREAM MODIFICATIONS AND WATER DIVERSIONS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF THE COMPLETION OF INSTALLATION. DAMS SHALL CONFORM TO THE OHIO DAM LAWS (ORC 1521.06).
F. CRITICAL AREAS WITHIN 50 FEET OF ANY STREAM OR WETLAND SHALL BE TEMPORARILY STABILIZED WITHIN TWO (2) DAYS OF DISTURBANCE IF AREA WILL REMAIN INACTIVE FOR SEVEN (7) DAYS OR LONGER. CONSTRUCTION VEHICLES SHALL AVOID STREAMS AND THE 50 FOOT BUFFER AREAS. IF AN ACTIVE DRAINAGE WAY MUST BE CROSSED BY CONSTRUCTION VEHICLES REPEATEDLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS IN THE RAINWATER & LAND DEVELOPMENT MANUAL. CONSTRUCTION OF BRIDGES, CULVERTS OR SEDIMENT CONTROL STRUCTURES SHALL NOT PLACE SOIL, DEBRIS AND OTHER FINE PARTICULATE MATERIAL INTO OR CLOSE TO THE WATER RESOURCE IN SUCH A MANNER THAT IT MAY SLOUGH, SLIP OR ERODE.
G. STORM SEWER INLETS SHALL BE PROTECTED SO THAT SEDIMENT-LADEN RUNOFF WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED AND/OR TREATED.
H. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN TWENTY-ONE (21) DAYS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.
I. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS. STABILIZATION SHALL BE REQUIRED IF STOCKPILES ARE LOCATED WITHIN CRITICAL AREAS NEAR STREAMS OR WETLANDS, OR IF SEDIMENT FROM STOCKPILES WILL OTHERWISE LEAVE THE SITE.
J. UNSTABLE SOILS PRONE TO SLIPPING OR SLOUGHING SHALL NOT BE CLEARED, GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS PLANNED BY A QUALIFIED PROFESSIONAL ENGINEER AND INSTALLED IN ACCORDANCE WITH THIS PLAN. CUT AND FILL SLOPES SHOULD BE DESIGNED TO MINIMIZE EROSION PROBLEMS. ADEQUATE SLOPE DESIGN INCLUDES USE OF ROUGH SOIL SURFACE ALONG THE FACE OF THE SLOPE, WATER DIVERSION ALONG THE TOP OF THE SLOPE AWAY FROM THE FACE, TERRACES TO REDUCE SLOPE LENGTH, DELIVERY OF CONCENTRATED STORM WATER FLOWS TO THE BASE OF THE SLOPE VIA ADEQUATE CHANNEL OR PIPE, AND DRAINAGE FOR WATER SEEPS IN THE SLOPE THAT ENDANGER SLOPE STABILITY.
K. SOIL SHALL BE REMOVED FROM PAVED SURFACES AND/OR PUBLIC ROADS AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION, IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION.
L. DISTURBED OR MODIFIED DRAINAGE WAYS SHALL BE STABILIZED. EROSION EFFECTS OF STORM WATER RUNOFF SHALL BE REDUCED BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES OR WATER DIVERSIONS.
M. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT. A WRITTEN LOG OF THESE INSPECTIONS AND IMPROVEMENTS TO CONTROLS SHALL BE KEPT ON SITE. THE INSPECTIONS SHALL INCLUDE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE CORRECTIVE ACTIONS WERE TAKEN.
N. TRENCHES FOR UNDERGROUND UTILITY LINES AND PIPES SHALL BE TEMPORALLY STABILIZED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN INACTIVE FOR THIRTY (30) DAYS. TRENCH DEWATERING DEVICES SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL-LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED, THESE PROTECTIVE MEASURES SHALL BE REINSTALLED.
O. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF TWENTY-ONE (21) DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN SEVEN (7) DAYS.
P. RESERVED.
Q. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
R. OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN.
S. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL (CURRENT EDITION).
T. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
U. WINTERIZATION - RESERVED.
V. CONCRETE CEMENT IS TO BE TAKEN BACK TO PLANT FOR WASHOUT AND RECYCLING.

EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THESE PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-DISTURBING ACTIVITY.

SITE DESCRIPTION
A. TOTAL AREA DISTURBED/DEVELOPED - 14 ACRES
B. PRE-CONSTRUCTION C COEFFICIENT - 0.55 (SHED)
POST-CONSTRUCTION C COEFFICIENT - 0.70 (SHED)
IMPERVIOUS AREA CREATED BY ACTIVITY - 7.4 ACRES
PERCENT SITE IMPERVIOUS - 50% (DISTURBED)
E. EXISTING SOILS ARE AS IDENTIFIED IN PRELIMINARY GEOTECHNICAL REPORT PROVIDED SEPARATELY.
F. SITE IS CURRENTLY VACANT.
G. UTILITY AND GRADING ACTIVITY TO COMMENCE SPRING 2026 WITH TYPICAL CONSTRUCTION METHODS.
H. RECEIVING STREAM - SURFACE/STORM TO UNNAMED TRIBUTARY TO COLDWATER CREEK.

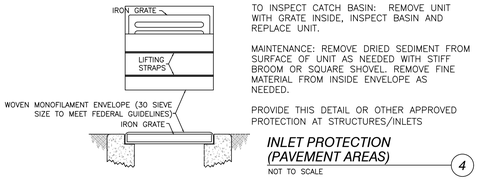


REFER TO SEDIMENT BASIN NOTE ON SHEET C112 FOR ELEVATIONS AND DRAWDOWN SIZING.

FAIRCLOTH SKIMMER
3" SKIMMER AND
4 DAY DRAWDOWN
40,000 CF EA. BASIN

TEMPORARY SEDIMENT CONTROL BARRIER (3)
NOT TO SCALE

TEMPORARY SEDIMENT CONTROL BARRIER SHALL BE INSTALLED WHERE INDICATED & SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE & PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED. SEDIMENT SHALL BE REMOVED FROM TEMPORARY SEDIMENT BASIN BEFORE 40% CAPACITY IS REACHED. UNDER NO CIRCUMSTANCES SHALL TEMPORARY SEDIMENT BASINS BE PUMPED OR DRAINED INTO THE EXISTING DRAINAGE WAY OR EXISTING STORM SYSTEM WITHOUT PROPER FILTERING TO PREVENT SEDIMENT FROM POLLUTING EXISTING DRAINAGE SYSTEMS. ONCE THE SITE IS 80% PERMANENTLY STABILIZED, THE SEDIMENT BARRIER & ACCUMULATED SEDIMENT SHALL BE REMOVED; THE AREA BROUGHT TO FINAL GRADE, SEEDED & MULCHED; & THE HEADWALL/END SECTION RESTORED.

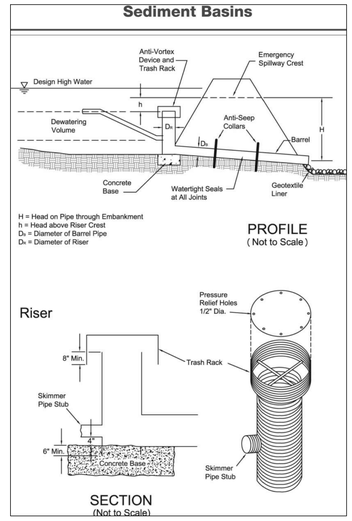


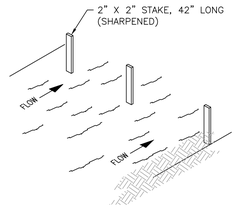
TO INSPECT CATCH BASIN: REMOVE UNIT WITH GRATE INSIDE, INSPECT BASIN AND REPLACE UNIT.

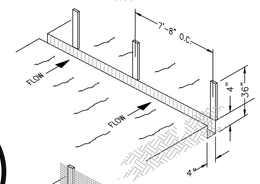
MAINTENANCE: REMOVE DRIED SEDIMENT FROM SURFACE OF UNIT AS NEEDED WITH STIFF BROOM OR SQUARE SHOVEL. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

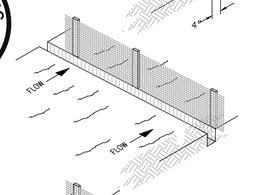
PROVIDE THIS DETAIL OR OTHER APPROVED PROTECTION AT STRUCTURES/INLETS

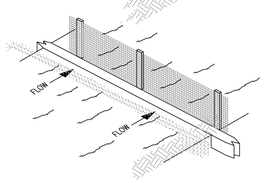
INLET PROTECTION (PAVEMENT AREAS) (4)
NOT TO SCALE











SILT FENCE: THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36". HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

2. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, & SECURELY SEALED.

3. POSTS SHALL BE SPACED A MAXIMUM OF 10' APART AT THE BARRIER LOCATION & DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12". WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.

4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE & 4" DEEP ALONG THE LINE OF POSTS & UP-SLOPE FROM THE BARRIER.

5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP-SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" & SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.

6. STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, & 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

7. WHEN EXTRA STRENGTH FILTER FABRIC & CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.

8. THE TRENCH SHALL BE BACKFILLED & SOIL COMPACTED OVER THE FILTER FABRIC.

9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP-SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE:

SILT FENCES & FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL & AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

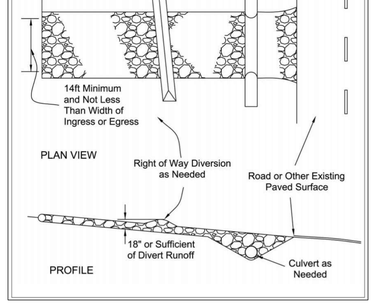
SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE & THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED & SEEDED.

SEDIMENT FENCE (1)
NOT TO SCALE

Specifications for
Construction Entrance



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH - AS NEEDED TO STABILIZED HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FEET (EXCEPTION: APPLY 30 FT MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - 14' MINIMUM, BUT NOT LESS THAN FULL WIDTH WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET OHIO RLD SPECS.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE.
9. PERIODIC INSPECTION & NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. GROUND USED FOR THE TEMPORARY CONSTRUCTION DRIVE NEEDS TO BE RETURNED TO THE ORIGINAL CONDITION OR BETTER.

TEMPORARY CONSTRUCTION ENTRANCE (2)
NOT TO SCALE

BEFORE YOU DIG
CALL BEFORE YOU DIG - 800-362-2764 OR 811
NOTIFICATION OF INTENT TO EXCAVATE

N

emersion DESIGN
310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE 4
WEST CHESTER, OH 45069
(513) 671-8744

DATE | DESCRIPTION | MARK

DATE: 3/31/26
SHEET ISSUE
DESIGNED BY: T FOSTER
DRAWN BY: BS/MRE
CHECKED BY: BS/MRE
PROJECT MANAGER: T. WILEY
PROJECT NO: 02250
SHEET SIZE: 30x42
PLOT SCALE: 1" = 40'

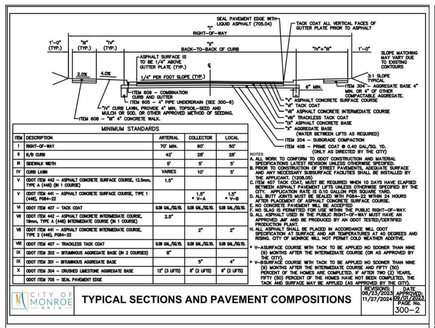
MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

EROSION & SEDIMENT DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-113

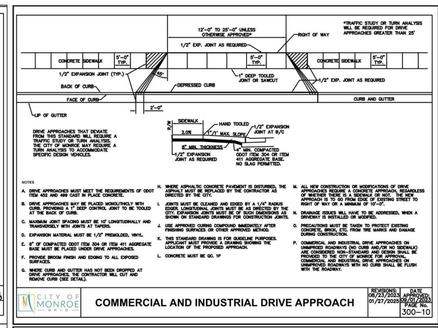
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ITEM	DESCRIPTION	ARTERIAL	COLLECTOR	LOCAL
T	RIGHT-OF-WAY	70' MIN.	60'	50'
U	CLR CURB	42'	32'	26'
R	BARRIER WIDTH	5'	5'	5'
W	CURB LANE	VARIES	12'	11'
Y	ODOT 608 - ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (1/4IE) (M 1 COURSE)	1.5"		
Y	ODOT 608 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (1/4E), 7008=D		1.5" + 0.5" = 2"	1.5" + 0.5" = 2"
W	ODOT 609 - TACK COAT	0.06 GAL/SQ.YD.	0.06 GAL/SQ.YD.	0.06 GAL/SQ.YD.
X	ODOT 608 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A (1/4E) INTERMEDIATE COURSE (M 1 COURSE)	2.5"		
V	ODOT 608 - ASPHALT CONCRETE BASE, TYPE 2 (1/4E), 7004=D		3"	3"
VII	ODOT 609 - TRACKLESS TACK COAT	0.06 GAL/SQ.YD.	0.06 GAL/SQ.YD.	0.06 GAL/SQ.YD.
IX	ODOT 204 - SUBGRADE COMPACTION			
V	ODOT 804 - AGGREGATE BASE (M 2 COURSES)			
V	ODOT 304 - BITUMINOUS AGGREGATE BASE			4"
V	ODOT 804 - GRADED LIMESTONE AGGREGATE BASE	12" (2 LIFTS)	8" (2 LIFTS)	4" (2 LIFTS)
	ODOT 659 - SEAL PAVEMENT EDGE			

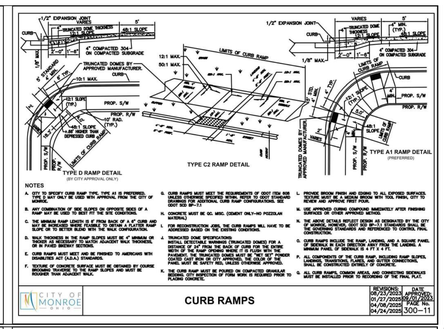
NOTES
A. ALL WORK TO CONFORM TO ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS LATEST REVISION UNLESS OTHERWISE SPECIFIED.
B. ASPHALT CONCRETE SURFACE COURSE TO BE PLACED IN TWO EQUAL LIFTS. ADJACENT PAVEMENT FAULTING SHALL BE INSTALLED BY THE ASPHALT CONTRACTOR.
C. ASPHALT CONCRETE SURFACE COURSE IS REQUIRED WHEN 50 DAYS HAVE ELAPSED BETWEEN ASPHALT PAVEMENT LAYS UNLESS OTHERWISE SPECIFIED BY THE CITY. APPLICATION RATE IS 0.03 GALLON PER SQUARE YARD.
D. ASPHALT CONCRETE SURFACE COURSE TO BE PLACED WITHIN 24 HOURS AFTER PLACEMENT OF ASPHALT CONCRETE INTERMEDIATE COURSE.
E. NO CONCRETE PAVEMENT WILL BE ACCEPTED IF PLACED BELOW 40°F AMBIENT AIR TEMPERATURE. ALL PUBLIC RIGHT-OF-WAY ASPHALT USED IN THE PUBLIC RIGHT-OF-WAY MUST BE APPROVED AMP AND BE PRODUCED BY AN ODOT TESTED/CERTIFIED ASPHALT PLANT.
F. ASPHALT CONCRETE SURFACE COURSE MIX TO BE PLACED IN ACCORDANCE SPECIFICATION AT SURFACE AND AIR TEMPERATURES AT 40 DEGREES AND RISING. CITY OF MONROE WILL NOT PERMIT COLD WEATHER ASPHALT.
G. V-ASPHALTIC CONCRETE WITH TACK TO BE APPLIED NO SOONER THAN NINE (9) MONTHS AFTER THE INTERMEDIATE COURSE IS APPROVED BY THE CITY.
H. V-BITUMINOUS AGGREGATE BASE TO BE APPLIED NO SOONER THAN NINE (9) MONTHS AFTER THE INTERMEDIATE COURSE AND FIFTY (50) PERCENT OF THE HOMES ARE COMPLETED. IF AFTER TWO (2) YEARS, 50% OF THE HOMES ARE NOT COMPLETED, THE BITUMINOUS BASE TACK AND SURFACE MAY BE APPLIED (AS APPROVED BY THE CITY).

CITY OF MONROE SERVICE
TYPICAL SECTIONS AND PAVEMENT COMPOSITIONS
REVISIONS: 01/27/2025, 04/24/2025 | DATE APPROVED: 08/07/2023, 01/27/2025, 04/24/2025 | PAGE NO.: 300-2



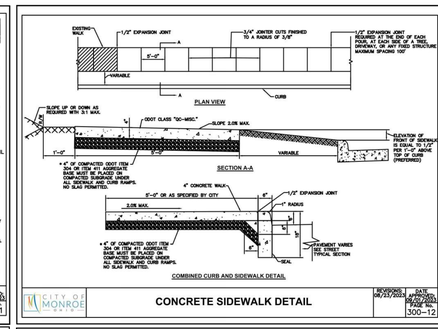
NOTES
A. DRIVE APPROACHES MUST MEET THE REQUIREMENTS OF ODOT ITEM 608 AND ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
B. DRIVE APPROACHES MUST BE PLACED MONOLITHICALLY WITH THE CURB AND GUTTER. CONTRACTION JOINTS TO BE TOOLED OR SAWCUT.
C. MAXIMUM JOINT SPACING MUST BE 10' LONGITUDINALLY AND TRANSVERSELY WITH JOINTS AT CENTER.
D. EXPANSION MATERIAL MUST BE 1/2" PREMOLDED, WIDTH.
E. 6" OF COMPACTED, GRADED STONE SUB BASE OR BASE AGGREGATE BASE MUST BE PLACED UNDER DRIVE APPROACHES.
F. FINISHED DRIVEWAY FINISH AND SLOPING TO ALL EXPOSED SURFACES.
G. WHERE CURB AND GUTTER HAS BEEN REMOVED AT DRIVE APPROACHES, THE CONTRACTOR WILL CUT AND REMOVE CURB AND GUTTER.
H. WHERE SUBGRADE CONTRACTOR IS DISTURBED, THE ASPHALT MUST BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE CITY.
I. LIGHTS MUST BE CLEARED AND EDGED BY A 1/2" EARTH SHOULDER. ALL DISTURBED AREAS MUST BE CONTRACTOR TO BE SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN ON STANDARD DRAWINGS FOR CONSTRUCTION JOINTS.
J. ALL APPROACHES CURB TO BE MONOLITHICALLY WITH CURB AND GUTTER.
K. THIS STANDARD DRAWING IS FOR SUBDIVISION PURPOSES. CONTACT THE CITY ENGINEER FOR DETERMINATION OF THE LOCATION OF THE PROPOSED APPROACH.
L. CONCRETE MUST BE 6C, 7P.
M. ALL NEW CONSTRUCTION OR MODIFICATIONS OF DRIVE APPROACHES REQUIRE A CONCRETE APPROACH, REGARDLESS OF THE TYPE OF CURB. ASPHALT APPROACHES MAY BE REPLACED WITH CONCRETE APPROACHES IN FRONT OF ANY PROPERTY IN THE CITY.
N. DRAINAGE SWALES WILL NOT BE ALLOWED, WHEN A DRIVEWAY IS REQUIRED.
O. EXCAVATION MUST BE TAKEN SO AS TO PROTECT EXISTING TREES AND ROOTS TO AVOID THE DESTRUCTION OF ROOTS.
P. DOMESTIC, AND IRRIGATION DRAWINGS OBTAINED ON UNIMPROVED ROADWAYS (NO CURB AND/OR NO SIDEWALK) SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY. ALL DISCONNECTED AND REMOVED SERVICES SHALL BE CAPPED AT THE CORPORATION AND WITH NO CURB SHALL BE FLUSH WITH THE ROADWAY.

CITY OF MONROE SERVICE
COMMERCIAL AND INDUSTRIAL DRIVE APPROACH
REVISIONS: 08/07/2023 | DATE APPROVED: 08/07/2023, 01/27/2025 | PAGE NO.: 300-10



NOTES
A. CITY TO SPECIFY CURB RAMP TYPE, TYPE A1 IS PREFERRED, TYPE A2 MAY BE USED WHERE SPACE IS LIMITED (SEE APPROVAL BY CITY ENGINEER ONLY).
B. ANY COMPROMISE OF THESE GUIDELINES SHOULD BE DONE AT A SLOPE THAT IS LESS THAN 2.0 BUT NOT TO EXCEED 2.0.
C. THE MINIMUM RAMP LENGTH IS 6' EXCEPT WHERE THE 6' CURB AND GUTTER RAMP WILL NOT FIT BETWEEN THE DRIVEWAY AND THE CROSSWALK.
D. WALK THROUGHS IN THE RAMP SURFACE MUST BE 4" MINIMUM AND 6" MAXIMUM. THE SLOPE OF THE WALK THROUGH MUST BE 2.0% OR FLARED SIDEWALK.
E. CURB RAMPS MUST BE FINISHED TO AVERCROSS WITH A BROOM FINISH PERPENDICULAR TO THE RAMP.
F. "STOPS" OR "CROSS" SURFACE MUST BE RETURNED BY CHANGE IN DIRECTION OF CURB RAMP SLOPES AND MUST BE ROUGHER THAN ADJACENT WALK.
G. CURB RAMPS MUST MEET THE REQUIREMENTS OF ODOT ITEM 608 AND ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
H. CONCRETE MUST BE 6C, 6XC, CEMENT ONLY-NO POZZOLAN MATERIAL.
I. GRADE BREAK BETWEEN TOP AND GUTTER SHALL BE FLUSH.
J. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNINGS CONSISTING OF TRUNCATED DOMES AND SHALL COMPLY WITH ADA STANDARDS.
K. CURB RAMPS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
L. GROUND BREAK FROM AND SIGNS TO ALL EXPOSED SURFACES. SLOPE MUST BE 2.0% MAXIMUM IN ALL DIRECTIONS. NO SLAB PERMITTED.
M. ALL APPROVED CURBS CHANGED IMMEDIATELY AFTER FINISHING OF CONCRETE WITH APPROVED METHOD.
N. ALL CONCRETE MUST BE 6C, MISC. CEMENT ONLY-NO POZZOLAN MATERIAL.
O. ANY DEVIATIONS PROPERTY FINS MUST BE REESTABLISHED AFTER FINISHING OF SIDEWALK.
P. NO SLAB IS PERMITTED FOR USE IN THE PUBLIC RIGHT OF WAY.
Q. CONCRETE MUST BE APPROVED FOR USE IN THE PUBLIC RIGHT OF WAY PRIOR GRANULAR BASE OR SUBGRADE.

CITY OF MONROE SERVICE
CURB RAMPS
REVISIONS: 08/07/2023, 04/24/2025 | DATE APPROVED: 08/07/2023, 04/24/2025 | PAGE NO.: 300-11



CITY OF MONROE SERVICE
CONCRETE SIDEWALK DETAIL
REVISIONS: 08/07/2023 | DATE APPROVED: 08/07/2023, 04/24/2025 | PAGE NO.: 300-12

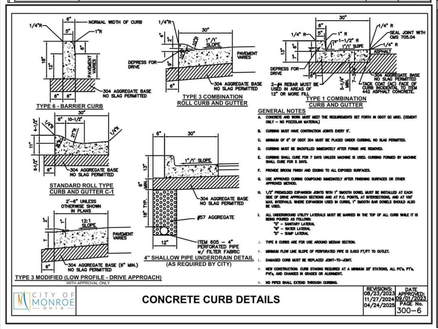
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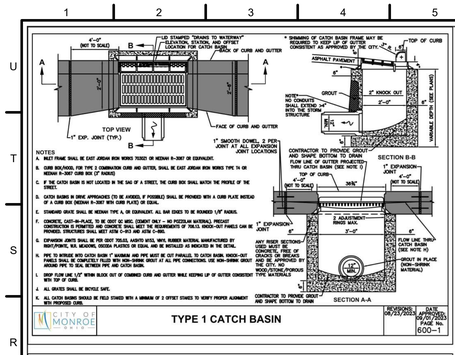
A. WALK TO BE POURED ON COMPACTED GRANULAR BEDDING.
B. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES.
C. CONCRETE MUST CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK MUST CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
D. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.
E. USE APPROVED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES OR OTHER APPROVED METHOD.
F. WHEN RENOVATING EXISTING STREETS, THE SIDEWALKS MUST BE REPLACED TO CONFORM WITH CITY CONSTRUCTION STANDARDS AND ORDINANCES.
G. CONCRETE MUST BE 6C, MISC. CEMENT ONLY-NO POZZOLAN MATERIAL)
H. ANY DEVIATIONS PROPERTY FINS MUST BE REESTABLISHED AFTER FINISHING OF SIDEWALK.
I. NO SLAB IS PERMITTED FOR USE IN THE PUBLIC RIGHT OF WAY.
J. GRADED UNITS WILL NOT BE PERMITTED, WITHOUT PRIOR APPROVAL OF THE CITY.
K. EDGING TOOL EDGES OF JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL HAVING A RADIUS OF 1/4 INCH. EDGE SLABS, GUTTERS, AND CURBS WHEN CONCRETE FINISHES. ELIMINATE TOOL MARKS LEAVING CONCRETE SURFACE ON COMPLETED SURFACES.
L. EXPANSION JOINT NEEDED AT THE RIGHT OF WAY WHEN DRIVEWAYS ARE REPLACED OR WHERE IT MEETS EXISTING EDGE OF NEW CONCRETE.

SIDEWALK JOINTS

A. **GENERAL** CONSTRUCT ISOLATION, CONSTRUCTION, AND CONTRACTION JOINTS, AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE, CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.
1. WHEN JOINING EXISTING PAVEMENT, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS, UNLESS OTHERWISE INDICATED.
B. **CONSTRUCTION JOINTS** SET CONSTRUCTION JOINTS AT 50'-0" MAX AND END TERMINATION OF PAVEMENT AND AT LOCATIONS WHERE PAVEMENT OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR, UNLESS PAVEMENT TERMINATES AT ISOLATION JOINTS.
C. **EXPANSION JOINTS** FORM EXPANSION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, GUTTERS, SIDEWALKS, AND SPECIAL PAVING WHERE INDICATED. APPLY SEALANT TO JOINTS AS RECOMMENDED BY JOINT-FILLER MANUFACTURER. INSTALL JOINTS AS INDICATED BY THE CITY.
1. LOCATION OF EXPANSION JOINTS AT INTERVALS OF 100', UNLESS OTHERWISE INDICATED.
2. THE EXPANSION JOINT MATERIAL MUST BE 1/2" VINYL OR OTHER APPROVED PRE FIBER.
D. **CONTRACTION JOINTS** FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED IN THE PLANS. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, WHERE INDICATED, AS FOLLOWS:
1. GROOVED JOINTS. FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH GROOVE TO A RADIUS OF 1/4 INCH. REPEAT FINISHING OF GROOVE AFTER FINAL GROOVING OF CONTRACTION JOINTS. AFTER APPLYING SURFACE FINISHES, ELIMINATE GROOVER OVERFLOW SLURRY MARKS ON CONCRETE SURFACES. QUALITY WORK MUST BE PERFORMED OR CONCRETE WILL BE REJECTED. GROOVE AS INDICATED OR AS REQUIRED TO A DEPTH OF AT LEAST 1/4 INCH BY WIDTH.
2. SAWED JOINTS WILL NOT BE PERMITTED, WITHOUT PRIOR APPROVAL OF THE CITY.
E. **EDGING** TOOL EDGES OF JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL HAVING A RADIUS OF 1/4 INCH. EDGE SLABS, GUTTERS, AND CURBS WHEN CONCRETE FINISHES. ELIMINATE TOOL MARKS LEAVING CONCRETE SURFACE ON COMPLETED SURFACES.
F. **EXPANSION JOINT** NEEDED AT THE RIGHT OF WAY WHEN DRIVEWAYS ARE REPLACED OR WHERE IT MEETS EXISTING EDGE OF NEW CONCRETE.

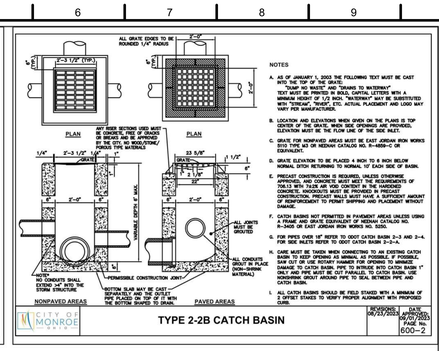
CITY OF MONROE SERVICE
CONCRETE SIDEWALK NOTES
REVISIONS: 08/07/2023 | DATE APPROVED: 08/07/2023 | PAGE NO.: 300-13


NORMAL WIDTH OF CURB
1/4"/ft
1/4"/ft
30"
6"
6"
EXPANSION JOINT MATERIAL
EXPANSION JOINT MATERIAL
304 AGGREGATE BASE NO SLAG PERMITTED
DEPRESS FOR DRIVE
TYPE 6 - BARRIER CURB
304 AGGREGATE BASE NO SLAG PERMITTED
TYPE 2 COMBINATION CURB AND GUTTER
TYPE 1 COMBINATION CURB AND GUTTER
2-#4 REBAR MIST 48" LONG IN MIDDLE OF 12" OR MORE FILL
DEPRESS FOR DRIVE
304 AGGREGATE BASE NO SLAG PERMITTED
STANDARD ROLL TYPE 6 CURB AND GUTTER C-1
304 AGGREGATE BASE NO SLAG PERMITTED
#57 AGGREGATE
4" SMALL CONDUIT
4" SMALL CONDUIT
4" SMALL CONDUIT



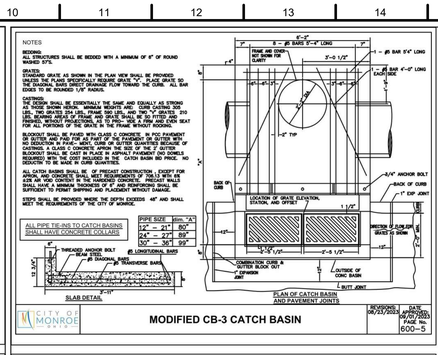
TYPE 1 CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-1



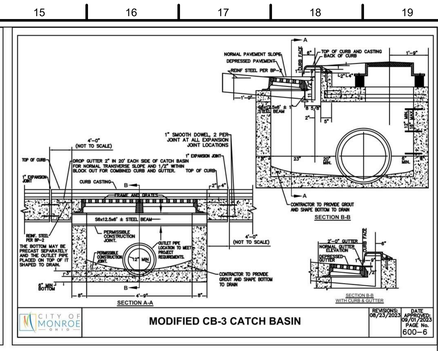
TYPE 2-2B CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-2



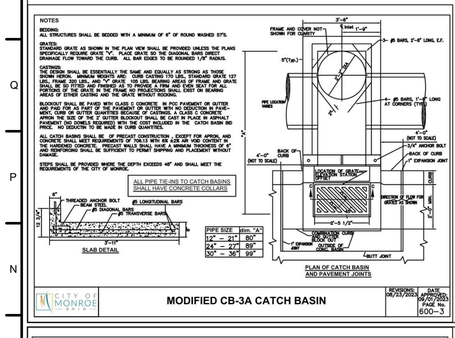
MODIFIED CB-3 CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-5



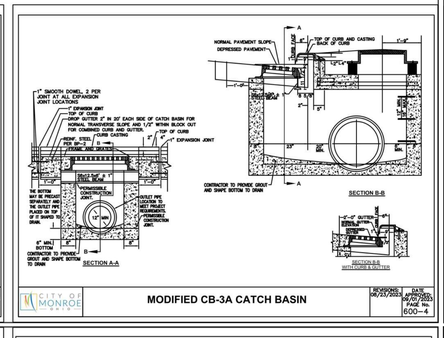
MODIFIED CB-3 CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-6



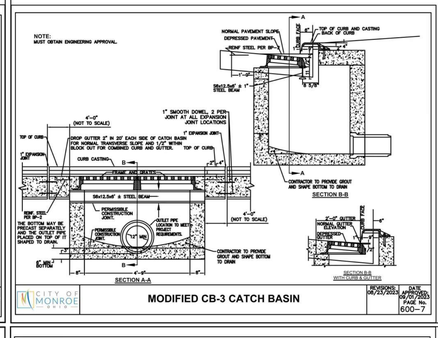
MODIFIED CB-3A CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-3



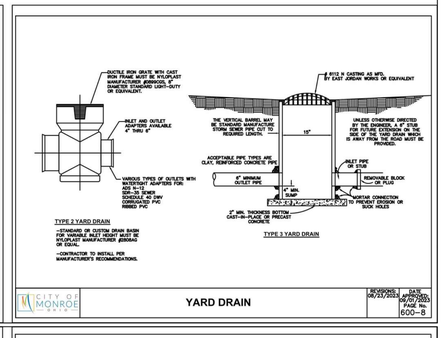
MODIFIED CB-3A CATCH BASIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-4



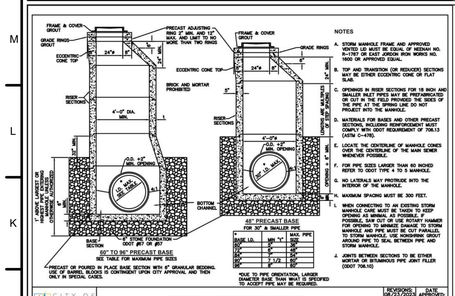
MODIFIED CB-3 CATCH BASIN

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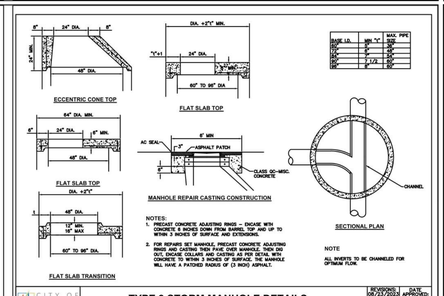
YARD DRAIN

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-8



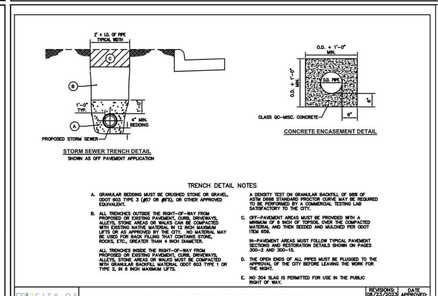
TYPE 3 STORM MANHOLE

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-9



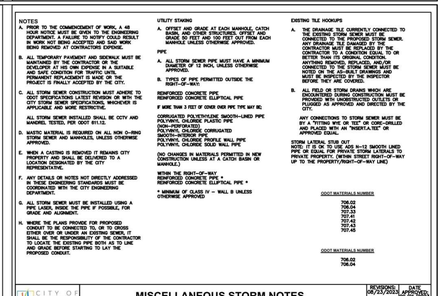
TYPE 3 STORM MANHOLE DETAILS

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-10



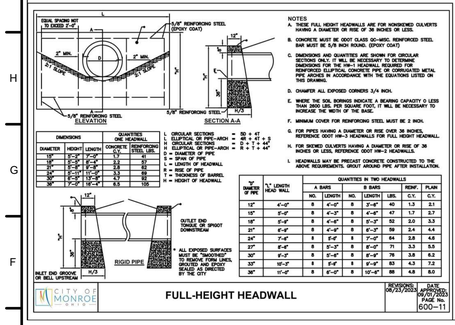
STORM SEWER TRENCH DETAIL

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-13



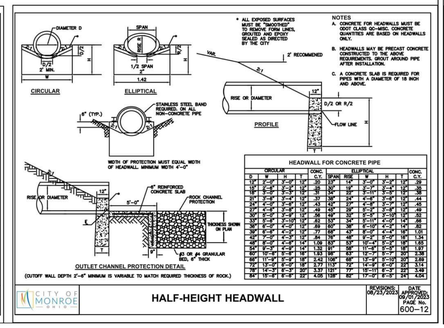
MISCELLANEOUS STORM NOTES

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-14



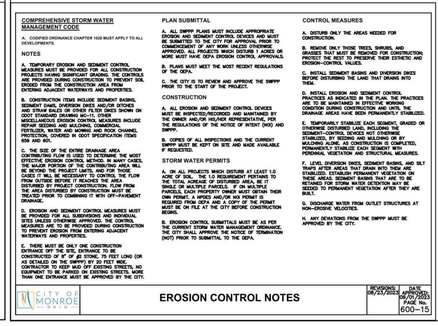
FULL-HEIGHT HEADWALL

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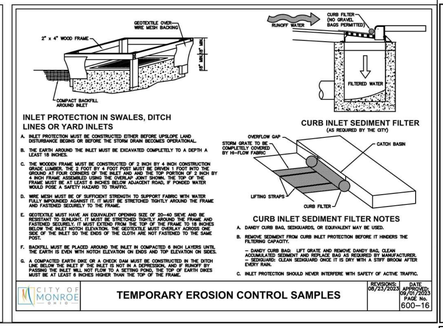
HALF-HEIGHT HEADWALL

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-12



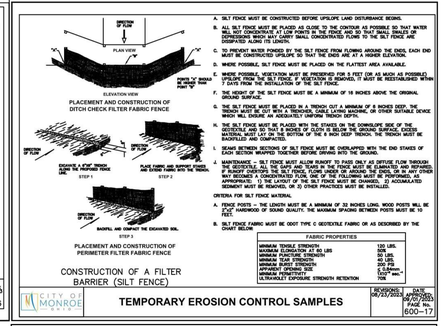
EROSION CONTROL NOTES

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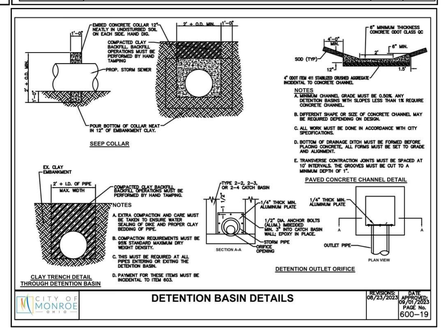
TEMPORARY EROSION CONTROL SAMPLES

REVISIONS 08/23/2023 | DATE APPROVED 08/07/2023 | PAGE No. 600-16



TEMPORARY EROSION CONTROL SAMPLES

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DETENTION BASIN DETAILS

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513.841.9100
emersiondesign.com

INFRASTRUCTURE DEVELOPMENT ENGINEERING
ide
8899 BROOKSIDE AVE
SUITE 200
WEST CHESTER, OH 45069
(513) 671-8744

DESCRIPTION | DATE | MARK

DESIGNED BY: T. FOSTER
DRAWN BY: T. WILEY
CHECKED BY: S. BEIMING
DATE: 3/31/26
SHEET ISSUE: SP
PROJECT MANAGER: T. WILEY
PROJECT NO: 02503
SHEET SIZE: 30X42
PLOT SCALE: 1" = 40'

MONROE NEW MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45044

CITY STORM WATER DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
C-115

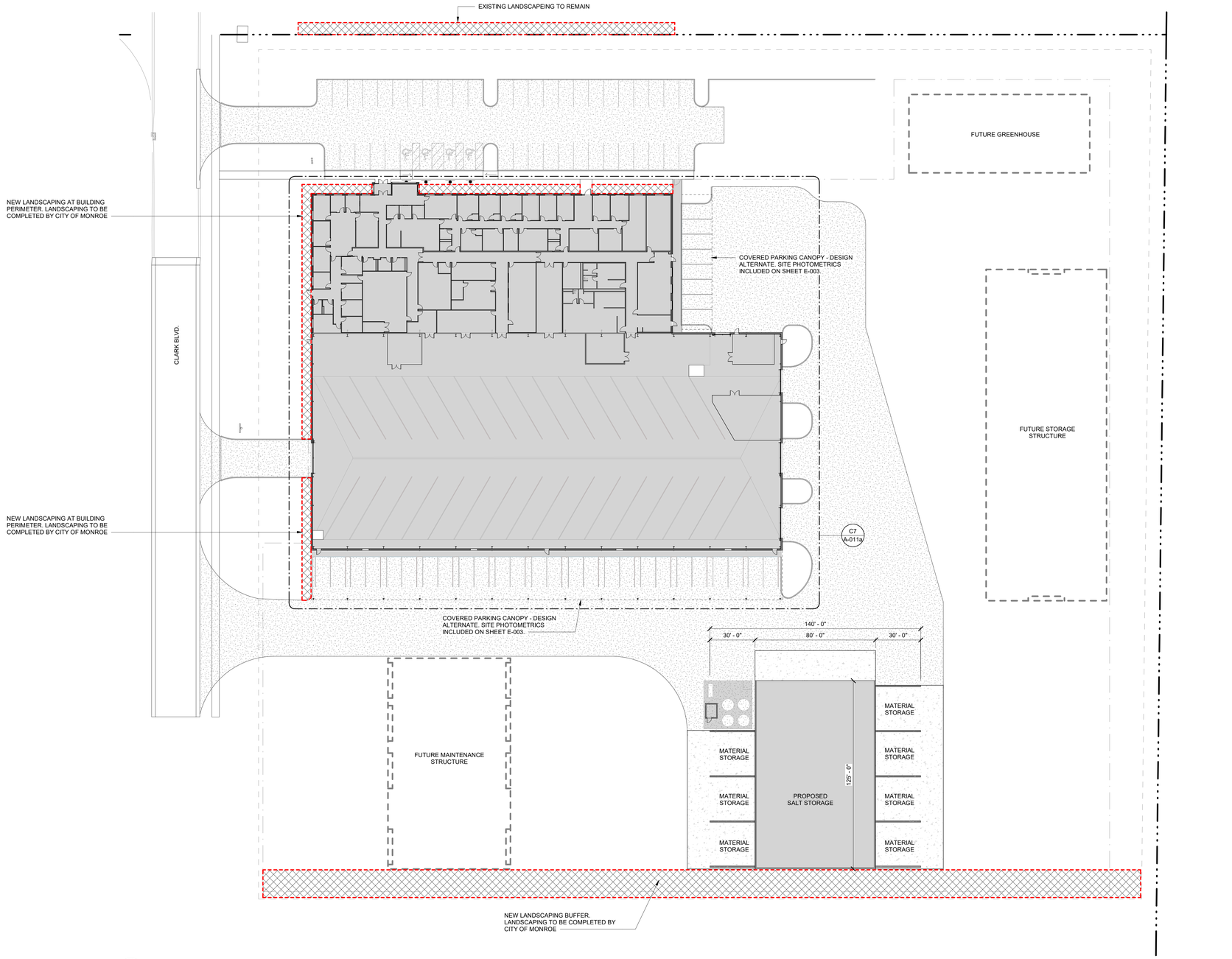
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ZONING - MARCH 2026

Plot Date: 11/24/2025 10:26:15 AM File Path: Autodesk Docs://Monroe Municipal Services Center/02503_A-Monroe Mun Svcs Ctr_R24.rvt

SITE PLAN LEGEND

- PROPERTY LINE
- SETBACK
- GRASS
- CONCRETE PAVEMENT - REFER TO CIVIL DRAWINGS
- ASPHALT PAVEMENT - REFER TO CIVIL DRAWINGS
- PROPOSED AND EXISTING PLANTED GROUNDCOVER - NEW GROUND COVER BY CITY OF MONROE



B5 ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"

0 30' 60'

N

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MARK	DESCRIPTION	DATE

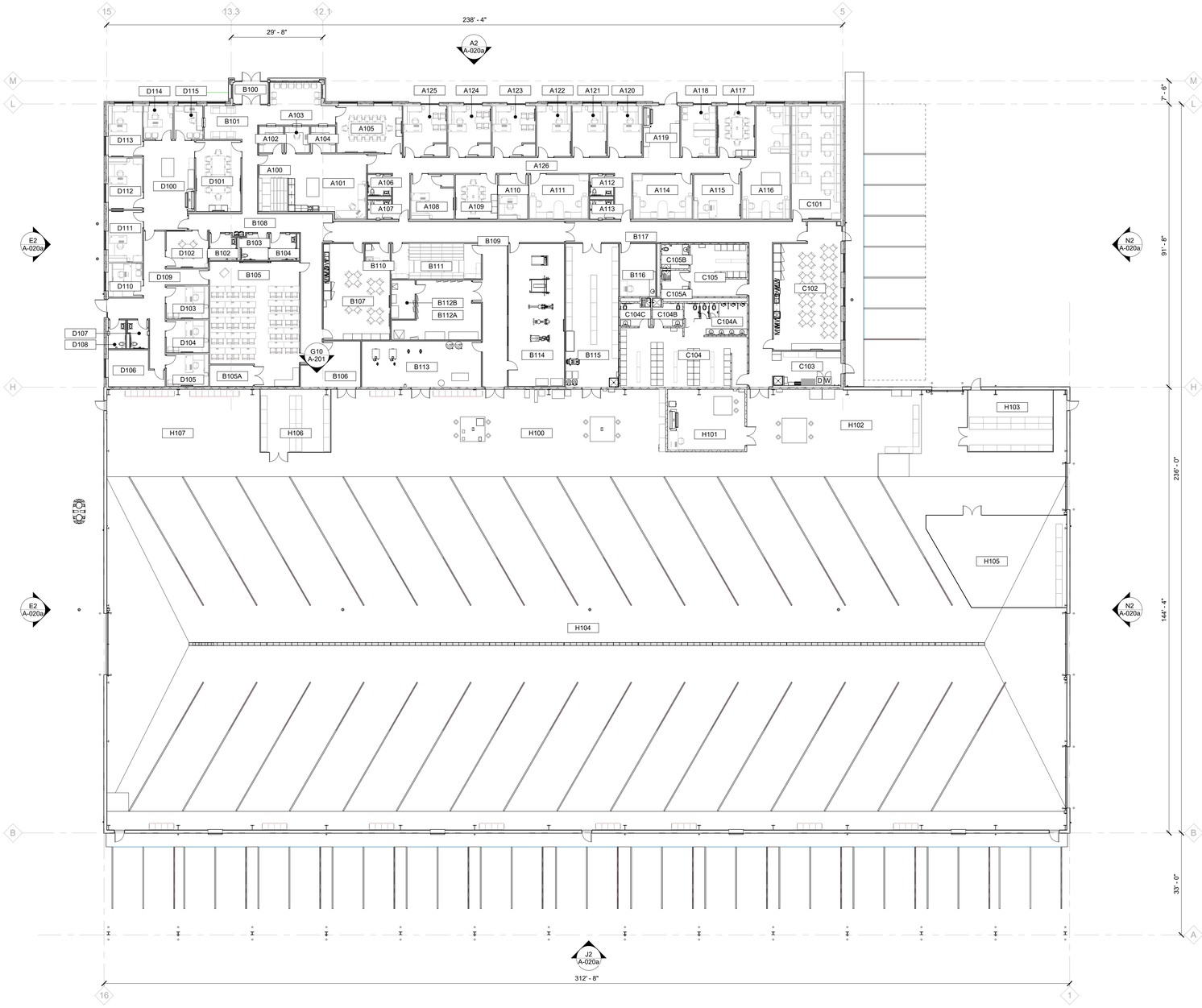
DESIGNED BY: R. FUSSNER
DRAWN BY: K. FISHER
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30X42
CHECKED BY: S. CUFFY
DATE:
SHEET ISSUE:
PROJECT NO. 022503
PLOT SCALE: 1" = 30'-0"

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050
ARCHITECTURAL SITE PLAN

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
A-010a

File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt
Plot Date: 4/6/2026 12:05:51 PM



C7 COMPILED FLOOR PLAN

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

0 4' 8' 16'

ROOM SCHEDULE

NUMBER	NAME
A100	ADMIN FILES
A101	PW ADMIN OFFICE
A102	LOBBY OFFICE
A103	LOBBY OFFICE
A104	LOBBY OFFICE
A105	CONFERENCE
A106	UNISEX RESTROOM ACCESSIBLE
A107	UNISEX RESTROOM
A108	DIRECTOR
A108A	CLOSET
A109	CONFERENCE
A110	GIS ANALYST
A111	PARKS SHARED FUTURE OFFICE
A112	UNISEX RESTROOM ACCESSIBLE
A113	UNISEX RESTROOM
A114	CITY ENGINEER
A115	CIVIL ENGINEER
A116	FUTURE OFFICE
A117	CONFERENCE
A118	ENGINEERING INSPECTORS
A119	PLANS
A120	PARKS SUPERINT
A121	WATER SUPERINT
A122	STREET SUPERINT
A123	GIS MANAGER
A123A	CLOSET
A124	ASSISTANT DIRECTOR
A124A	CLOSET
A125	ASSISTANT DIRECTOR
A125A	CLOSET
A126	CORRIDOR
B100	VEST
B101	LOBBY
B102	UNISEX RESTROOM ACCESSIBLE
B103	UNISEX RESTROOM ACCESSIBLE
B104	UNISEX RESTROOM ACCESSIBLE
B105	TRAINING
B105A	TRAINING STORAGE
B106	TELECOM
B107	ADMIN/DP BREAK
B108	CORR
B109	CORRIDOR
B110	NURSING
B111	ARCHIVE FILES
B112A	ELECTRICAL
B112B	ELECTRICAL
B113	MECHANICAL
B114	FITNESS
B115	FACILITY MAINT. STORAGE
B116	WATER TEST
B117	CORRIDOR
C101	CREW LEADER
C102	CREW BREAK
C103	LAUNDRY / WASH
C104	CREW LOCKER MEN
C104A	RESTROOM
C104B	SHOWER
C104C	SHOWER
C105	CREW LOCKER WOMEN
C105A	SHOWER
C105B	SHOWER
D100	OPEN COLLAB
D101	CONFERENCE
D102	CONFERENCE
D103	EXAMINER FUTURE
D104	CERT BLDG OFFICIAL FUTURE
D105	FUTURE OFFICE
D106	FILES
D107	UNISEX RESTROOM ACCESSIBLE
D108	UNISEX RESTROOM
D109	CORRIDOR
D110	CODE ENFORCE INSPECTOR
D111	CITY PLANNER
D112	ASSISTANT DIRECTOR
D113	DIRECTOR
D114	PLAN/ZONE SPECIALIST
D115	LOBBY OFFICE
H100	WORK AREA
H101	SIGN OFFICE
H102	SIGN WORK AREA & BLANK STORAGE
H103	STORAGE CAGE
H104	VEHICLE STORAGE
H105	STORAGE CAGE
H106	STORAGE CAGE
H107	UTILITY ENTRY

KEY PLAN

N

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310 Culvert St. Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

DATE
DESCRIPTION
MARK

DESIGNED BY: R. FUESNER
DRAWN BY: R. FUESNER
CHECKED BY: S. DUFFY
PROJECT MANAGER: T. WILEY
DATE:
SHEET ISSUE:
PROJECT NO: 022503
PLOT SCALE: 1/16" = 1'-0"
SHEET SIZE: 30X42

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050
PRELIMINARY FLOOR PLAN

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
A-011a

Plot Date: 4/5/2026 12:05:03 PM File Path: Autodesk Docs://Monroe Municipal Services Center/022503_A-Monroe Mun Svcs Ctr_R24.rvt

MATERIAL LEGEND

CAST STONE MASONRY

CS-1 - CAST STONE

BASIS OF DESIGN:
MANUFACTURER: INDIANA CAST STONE
SIZE: 24" LENGTHS
COLOR: LIMESTONE
FINISH: SMOOTH

MATERIAL IMAGE:

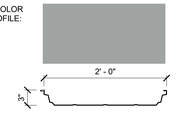


ROOFING

SSMR-1 - STANDING SEAM METAL ROOFING

BASIS OF DESIGN:
MANUFACTURER: NUCOR
PROFILE: CFR
SIZE: 24" WIDE PANEL
COLOR: PEARL GRAY

PANEL COLOR AND PROFILE:



UNIT MASONRY

CM-1 - ARCHITECTURAL CONCRETE MASONRY UNIT

BASIS OF DESIGN:
MANUFACTURER: LEE BUILDING PRODUCTS, MAXBLOCK
SIZE: 7-5/8" x 7-5/8" x 15-5/8"
COLOR: L410 BRECKENRIDGE NW
FINISH: SMOOTH
BOND: RUNNING BOND

MATERIAL IMAGE:

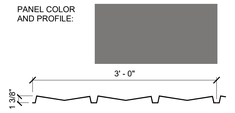


WALL PANELS

MP-1 - EXTERIOR METAL PANEL

BASIS OF DESIGN:
MANUFACTURER: NUCOR
PROFILE: A-PANEL
SIZE: 36" WIDE PANEL
COLOR: SLATE GRAY

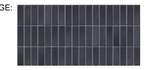
PANEL COLOR AND PROFILE:



BR-1 - MASONRY VENEER (BASE)

BASIS OF DESIGN:
MANUFACTURER: ENDICOTT CLAY PRODUCTS
SIZE: MODULAR - 3-5/8" x 2-1/4" x 7-5/8"
COLOR: MANGANESE IRONSPOT
FINISH: SMOOTH
BOND: SOLDIER COURSING

MATERIAL IMAGE:

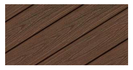


COMPOSITE CLADDING

CC-1 - COMPOSITE PLANK CLADDING

BASIS OF DESIGN:
MANUFACTURER: TREX, TRANSCEND
SIZE: 5-1/2" W x 1" THICK x 20'-0" MAX LENGTH
COLOR: SPICED RUM

MATERIAL IMAGE:

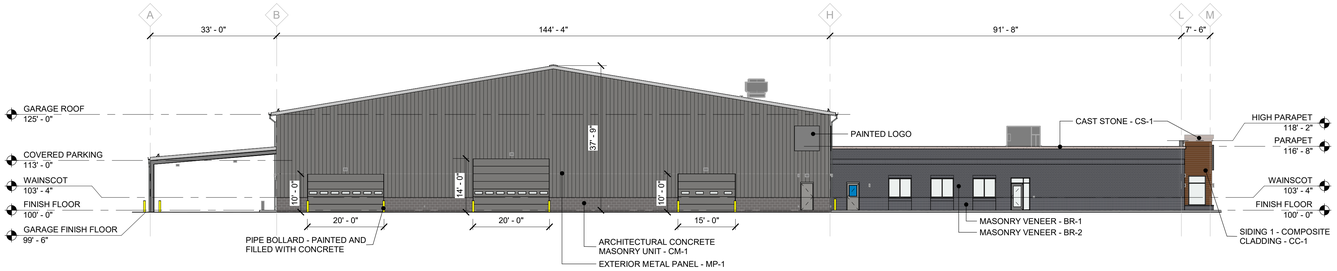


BR-2 - MASONRY VENEER (FIELD)

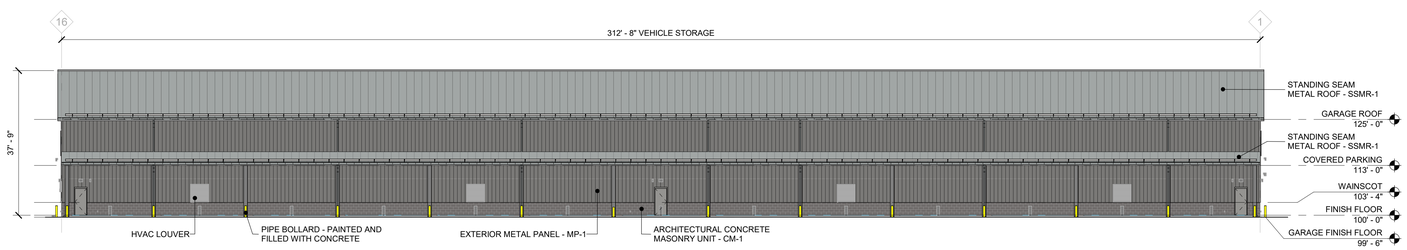
BASIS OF DESIGN:
MANUFACTURER: ENDICOTT CLAY PRODUCTS
SIZE: MODULAR - 3-5/8" x 2-1/4" x 5-5/8"
COLOR: MANGANESE IRONSPOT
FINISH: SMOOTH
BOND: RUNNING BOND

MATERIAL IMAGE:

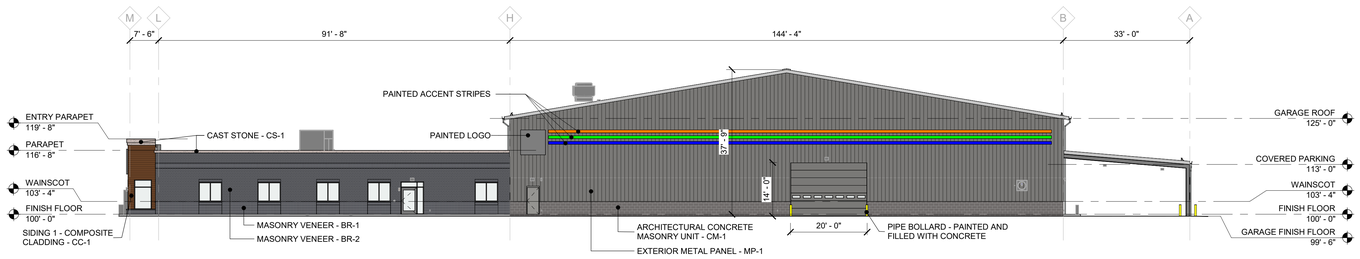




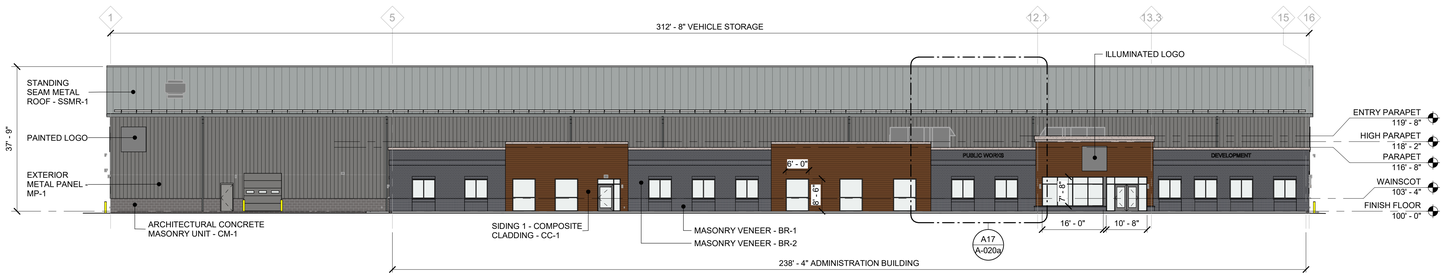
N2 COMPILED EAST ELEVATION
SCALE: 1/16" = 1'-0"



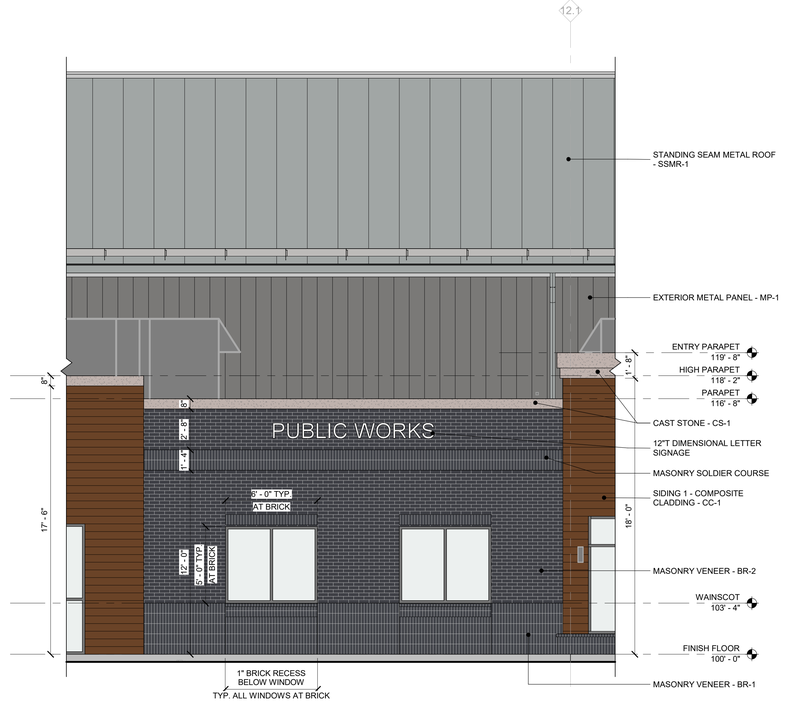
J2 COMPILED SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



E2 COMPILED WEST ELEVATION
SCALE: 1/16" = 1'-0"



A2 COMPILED NORTH ELEVATION
SCALE: 1/16" = 1'-0"



A17 ENLARGED ELEVATION
SCALE: 1/4" = 1'-0"

emersion DESIGN
310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

MARK	DESCRIPTION	DATE

DESIGNED BY: R. FUSSNER
DRAWN BY: R. FUSSNER
PROJECT MANAGER: T. WILEY
CHECKED BY: J. DUFFY
QA/QC: S. LAFFEY
DATE:
SHEET ISSUE:
PROJECT NO. 022503
PLOT SCALE: As indicated
SHEET SIZE: 30x42

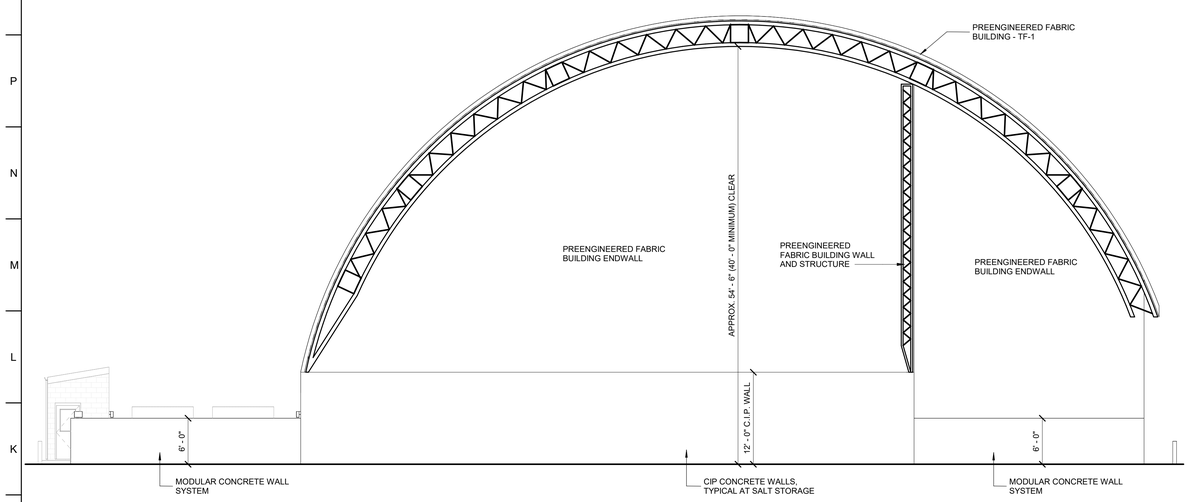
MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050

PRINCIPAL BUILDING ELEVATIONS

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
A-020a

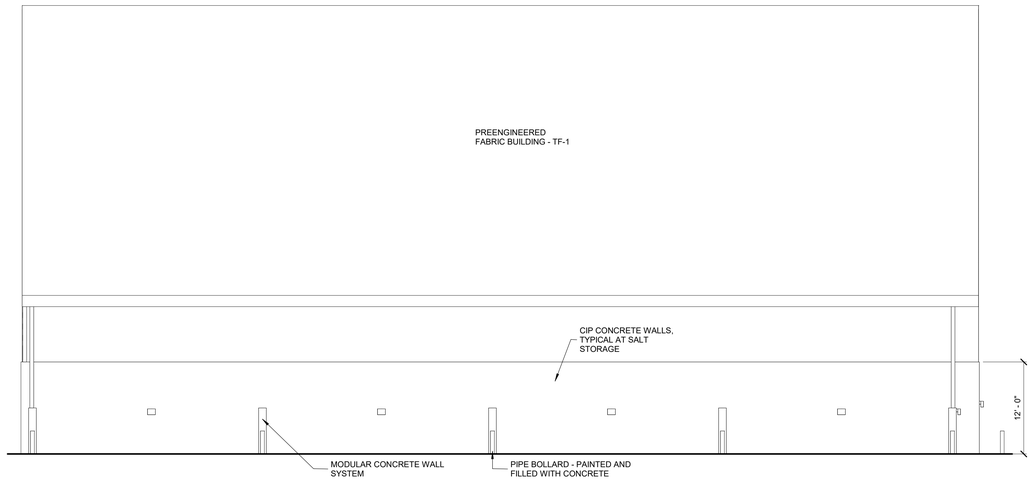
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Plot Date: 4/6/2026 3:13:53 PM



J1 SALT STORAGE - SOUTH ELEVATION

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

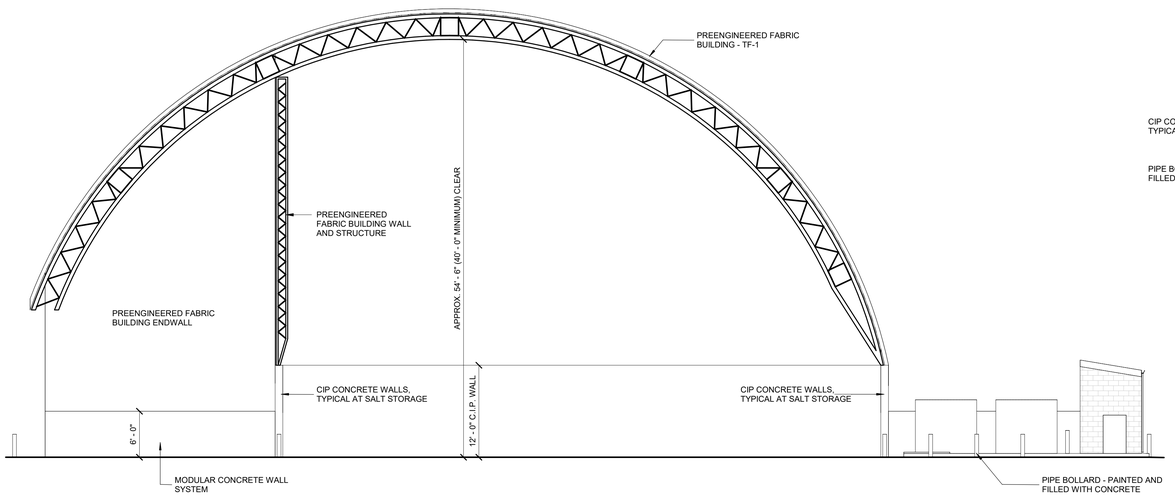
0 4' 8' 16'



N14 SALT STORAGE - EAST ELEVATION

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

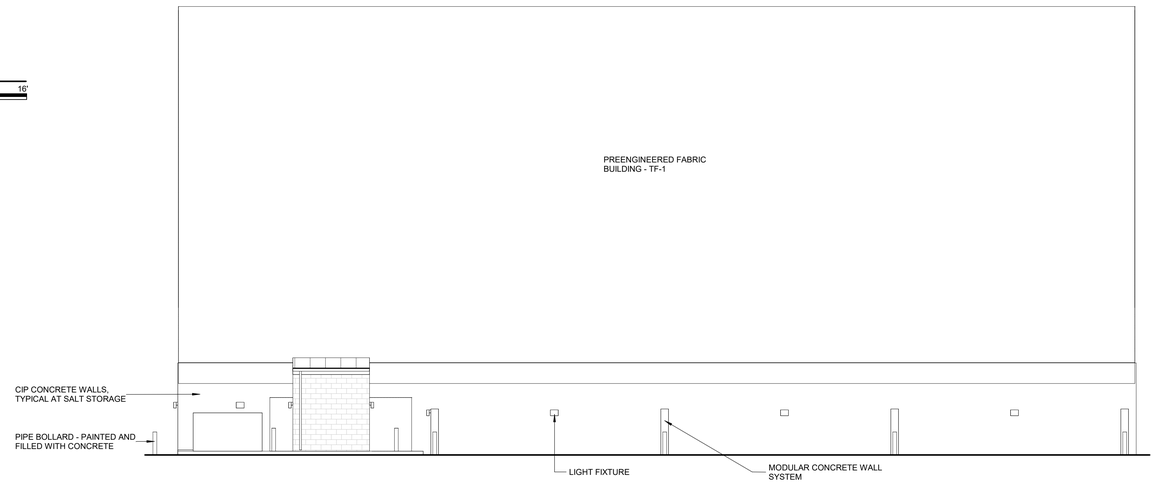
0 4' 8' 16'



A1 SALT STORAGE - NORTH ELEVATION

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

0 4' 8' 16'



D14 SALT STORAGE - WEST ELEVATION

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

0 4' 8' 16'

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310 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

MARK	DESCRIPTION	DATE

DESIGNED BY: R. FLESNER
DRAWN BY: K. ADKINS
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30x42
CHECKED BY: S. CLARY
DATE:
SHEET ISSUE:
PROJECT NO: 022503
PLOT SCALE: 1/8" = 1'-0"

MONROE MUNICIPAL SERVICES CENTER

200 CLARK BLVD
MONROE, OH 45050

ACCESSORY BUILDING - SALT STORAGE ELEVATIONS

PRELIMINARY NOT FOR CONSTRUCTION

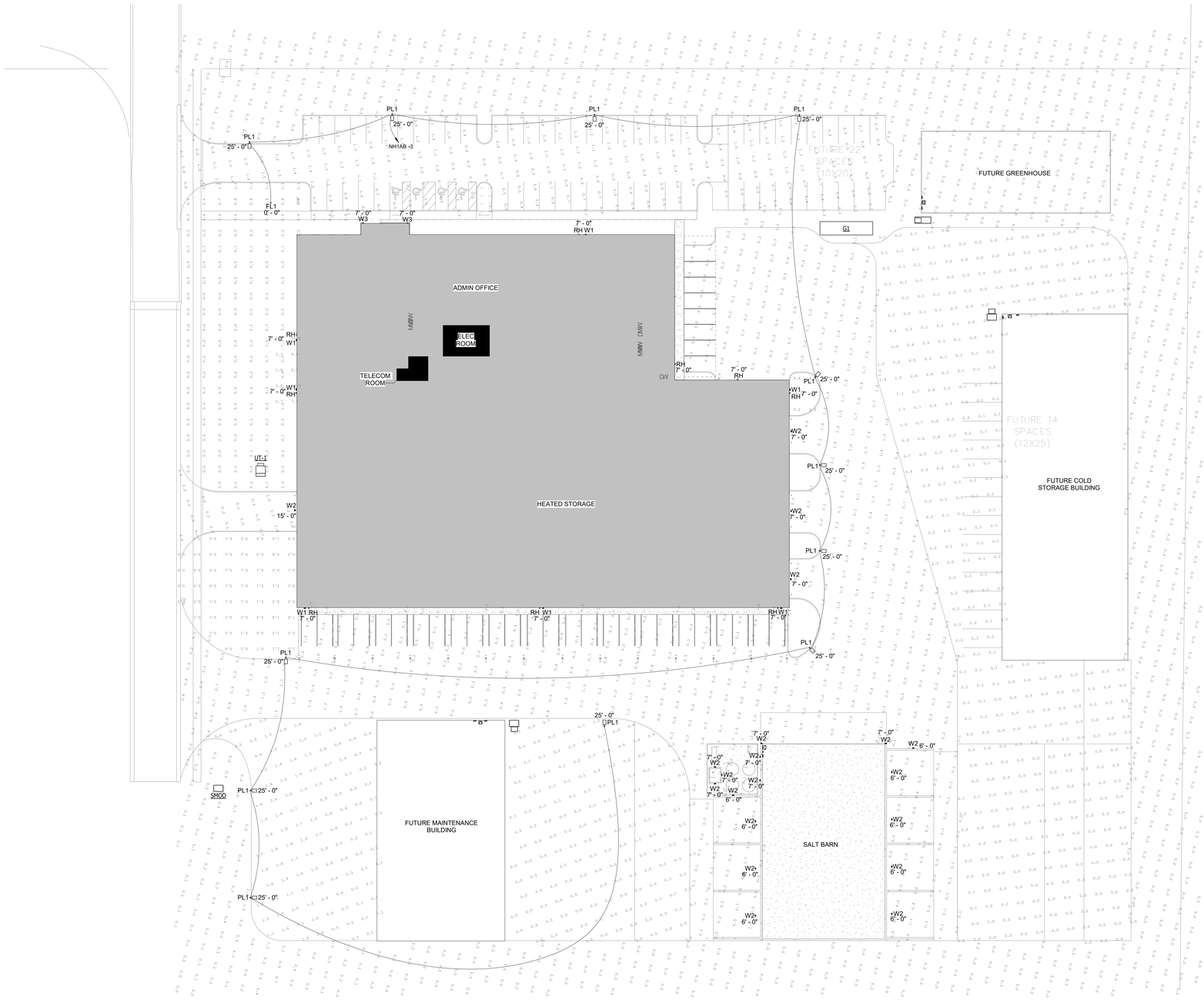
SHEET IDENTIFICATION

A-021a

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Plot Date: 4/5/2026 12:05:08 PM

ELECTRICAL - LUMINAIRE SCHEDULE - EXTERIOR

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
FL1	FLAGPOLE LIGHT	LITHONIA - DSXF2 P2 40K 70CRI WFL MVOLT IS DMG DBLXD	RAB, CONCORD AMERICAN FLAGPOLE	GROUND	4000K	10,000	75	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. GROUND MOUNTED FIXTURE.
PL1	LED PARKING AREA LIGHT	LITHONIA - DSX0 LED P3 40K 80 CRI T2M MVOLT DBLXD	LUMINIS, RAB LIGHTING	POLE LIGHT	4000K	8,700	126	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNTING HEIGHT 25' AFF.
RH	WALL MOUNT EXTERIOR REMOTE HEAD	LITHONIA - ERE W SGL RD WP	ISOLITE, COOPER	SURFACE WALL	4000K	-	1	277	WHITE FINISH. THERMOPLASTIC HOUSING. MOUNT ABOVE EXTERIOR DOORS.
S1	LED SURFACE MOUNTED CANOPY LIGHT	LITHONIA - CNY LED ALO SWW2 UVOLT PE PIR WH M2	ALCON, COOPER	SURFACE	4000K	4,700	34	277	DARK BRONZE FINISH. DIE CAST ALUMINUM HOUSING. SURFACE MOUNTED.
W1	WALL MOUNT EXTERIOR TRIANGLE LED LIGHTING FIXTURE	LITHONIA - WST LED P2 40K VF MVOLT DBLXD	HALO, RAB	SURFACE WALL	4000K	3,400	25	277	BLACK FINISH.DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.
W2	WALL MOUNT EXTERIOR LED LIGHTING FIXTURE	LITHONIA - WPX1 LED P2 40K MVOLT DBLXD	HALO, RAB	SURFACE WALL	4000K	2,900	24	<varies>	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.
W3	WALL MOUNTED LED CYLINDER LIGHTING FIXTURE	LITHONIA - OLLWD LED P1 40K MVOLT DDB	HALO, RAB	SURFACE WALL	4000K	500	9	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.



1 E-002 **SITE PHOTOMETRICS**
1" = 30'-0"

ELECTRICAL SITE UTILITY NOTES

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
B. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED IN THE COURSE OF HIS WORK.
C. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCEDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMEIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
D. FEDERAL, STATE, LOCAL, MUNICIPALITY, AND UTILITY COMPANY CODES, RULES, REGULATIONS, AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MEP ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
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H. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
I. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
J. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.
K. CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER FEES, EXTENSION AND DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
L. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS.
M. REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS.
N. CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQUIPMENT ON SITE. INCLUDING BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.
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P. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON).
Q. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
R. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

TAGGED NOTES (##)

N

emersion DESIGN
310 Culvert St. Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

DATE
DESCRIPTION
MARK

DESIGNED BY: H. SWOPE
DRAWN BY: M. WEISE
CHECKED BY: Checker
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30x42
DATE:
SHEET ISSUE:
PROJECT NO. 022503
PLOT SCALE: As indicated

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050
ELECTRICAL SITE PHOTOMETRICS

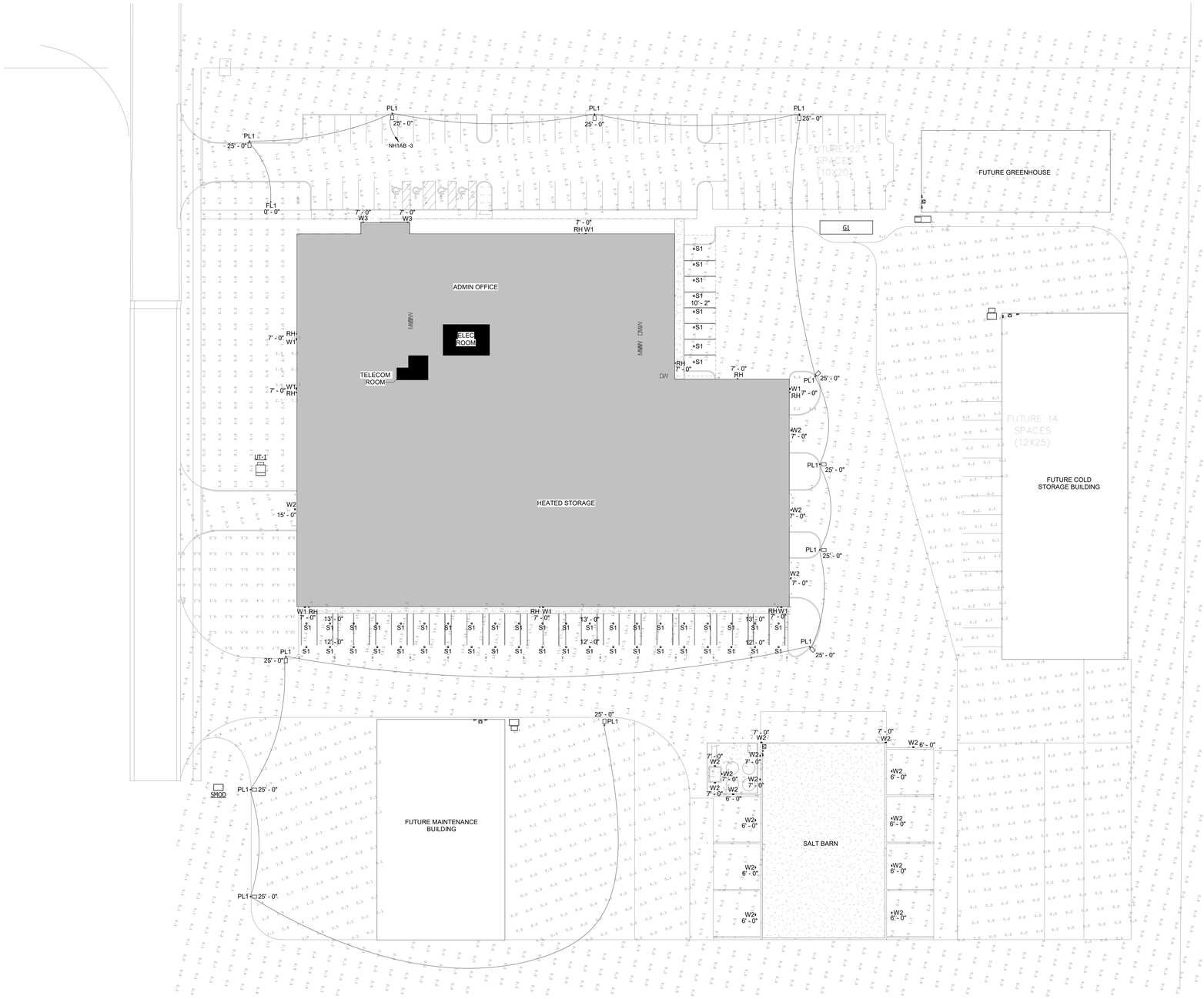
PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
E-002

File Path: Autodesk Docs://Monroe Municipal Services Center/CMPV25_R24.rvt
Plot Date: 4/6/2026 2:18:27 PM

ELECTRICAL - LUMINAIRE SCHEDULE - EXTERIOR

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
FL1	FLAGPOLE LIGHT	LITHONIA - DSXF2 P2 40K 70CRI WFL MVOLT IS DMG DBLXD	RAB, CONCORD AMERICAN FLAGPOLE	GROUND	4000K	10,000	75	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. GROUND MOUNTED FIXTURE.
PL1	LED PARKING AREA LIGHT	LITHONIA - DSX0 LED P3 40K 80 CRI T2M MVOLT DBLXD	LUMINIS, RAB LIGHTING	POLE LIGHT	4000K	8,700	126	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNTING HEIGHT 25' AFF.
RH	WALL MOUNT EXTERIOR REMOTE HEAD	LITHONIA - ERE W SGL RD WP	ISOLITE, COOPER	SURFACE WALL	4000K	-	1	277	WHITE FINISH. THERMOPLASTIC HOUSING. MOUNT ABOVE EXTERIOR DOORS.
S1	LED SURFACE MOUNTED CANOPY LIGHT	LITHONIA - CNY LED ALO SWW2 UVOLT PE PIR WH M2	ALCON, COOPER	SURFACE	4000K	4,700	34	277	DARK BRONZE FINISH. DIE CAST ALUMINUM HOUSING. SURFACE MOUNTED.
W1	WALL MOUNT EXTERIOR TRIANGLE LED LIGHTING FIXTURE	LITHONIA - WST LED P2 40K VF MVOLT DBLXD	HALO, RAB	SURFACE WALL	4000K	3,400	25	277	BLACK FINISH.DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.
W2	WALL MOUNT EXTERIOR LED LIGHTING FIXTURE	LITHONIA - WPX1 LED P2 40K MVOLT DBLXD	HALO, RAB	SURFACE WALL	4000K	2,900	24	<varies>	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.
W3	WALL MOUNTED LED CYLINDER LIGHTING FIXTURE	LITHONIA - OLLWD LED P1 40K MVOLT DDB	HALO, RAB	SURFACE WALL	4000K	500	9	277	BLACK FINISH. DIE CAST ALUMINUM HOUSING. MOUNT ON SURFACE WALL.



1 E-003 **SITE PHOTOMETRICS - ALTERNATE**
1" = 30'-0"

ELECTRICAL SITE UTILITY NOTES

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P. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON).
Q. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
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TAGGED NOTES (##)

N

emersion DESIGN
310 Culvert St. Suite 100
Cincinnati, Ohio 45202
513.841.9100
emersiondesign.com

DATE
DESCRIPTION
MARK

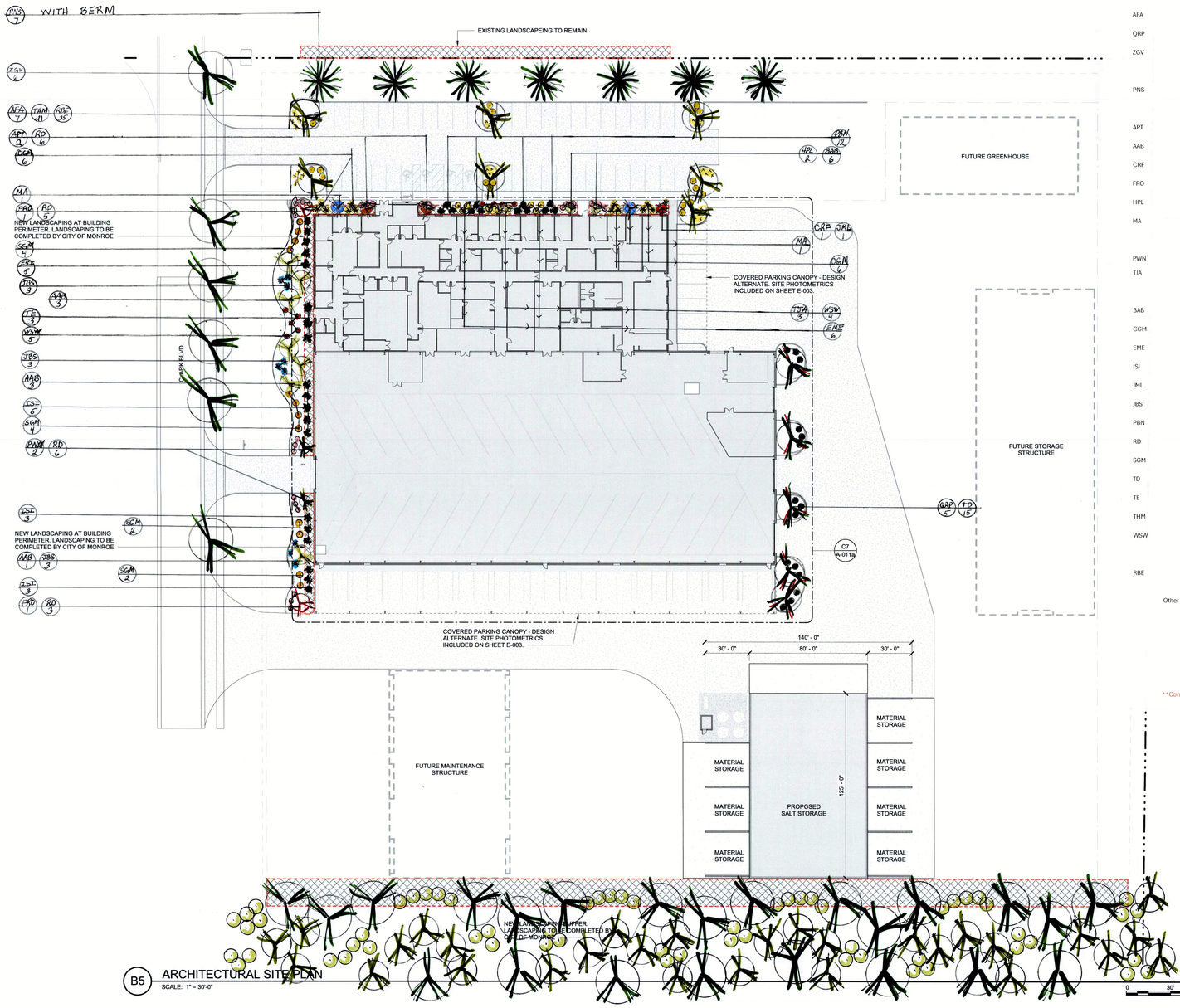
DESIGNED BY: H. SWOPE
DRAWN BY: M. HOWE
CHECKED BY: Checker
PROJECT MANAGER: T. WILEY
SHEET SIZE: 30x42
DATE:
SHEET ISSUE:
PROJECT NO. 022503
PLOT SCALE: As indicated

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050
ELECTRICAL SITE PHOTOMETRICS - ALTERNATE

PRELIMINARY NOT FOR CONSTRUCTION

SHEET IDENTIFICATION
E-003

Plot Date: 4/6/2026 2:18:22 PM
File Path: Autodesk Docs://Monroe Municipal Services Center/OMPW25_R24.rvt



B5 ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"

SITE PLAN LEGEND

- PROPERTY LINE
- SETBACK
- GRASS
- CONCRETE PAVEMENT - REFER TO CIVIL DRAWINGS
- ASPHALT PAVEMENT - REFER TO CIVIL DRAWINGS
- PROPOSED AND EXISTING PLANTED GROUNDCOVER - NEW GROUND COVER BY CITY OF MONROE

emersion DESIGN
330 Culvert St, Suite 100
Cincinnati, Ohio 45202
513.841.9300
emersiondesign.com

Public Works Landscaping Key

Lable	Number of Plants	Botanical Name	Common Name	Install Size	Mature Size Height x Width
		Shade Trees			
AFA	7	Acer Freemanii 'Armstrong	Armstrong Red Maple	2" B+B	40'x20'
QRP	5	Quercus Robarz bicolor 'Long'	Regal Prince Oak	2" B+B	40'x20'
ZGV	6	Zelkova Serrata 'Green Vase'	Green Vase Zelkova	2" B+B	40'x30
		Evergreen Trees			
PNS	7	Picea Abies	Norway Spruce	6' B+B	60'x30'
		Ornamental Trees Deciduous			
APT	2	Acer Palmatum 'Tamukeyama'	Tamukeyama Japanese Maple	7 Gal	8'x6'
AAB	7	Amelanchierx Grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' Bush Form	20'x15
CRF	1	Cercis Canadensis 'Ruby Falls'	Ruby Falls Redbud	10 Gal	8'x5'
FRO	2	Fagus Sylvatica 'Red Obelisk'	Red Oblisk Beech	7 Gal Tree Form	8'x5'
HPL	2	Hydrangea Paniculata 'Limelight'	Limelight Hydrangea	7 Gal Tree Form	8'x5'
MA	2	Magnolia 'Ann'	Ann Magnolia	5' B+B	10'x8'
		Ornamental Trees Evergreen			
PWN	2	Picea Abies 'Pendula'	Weeping Norway Spruce	5' Staked	12'x6'
TJA	3	Thuja Occidentalis 'Jantar'	Jantar Arborvitae	5'-	12'x4'
		Shrubs			
BAB	6	Berberis Thunbergii 'Admiration'	Admiration Barberry	2 Gal	2'x2'
CGM	12	Chamaecy Parsis Pisifera Golden Mop'	Golden Mop Cypress	3 Gal	5'x5'
EME	6	Euonymus Fortunei 'Moonshadow'	Moonshadow Euonymus	2 Gal	3'x4'
ISI	16	Ilex Glabra 'Shamrock'	Shamrock Inkberry	3 Gal	4'x4'
JML	1	Juniperus Horizon Talis 'Mother Lode'	Mother Lode Juniper	1 Gal	6'x4'
JBS	9	Juniperus Squamata 'Blue Star'	Blue Star Juniper	2 Gal	3'x4'
PBN	12	Picea Abies 'Pumila'	Bird Nest Spruce	3 Gal	3'x4'
RD	20	Rosa Drift	Drift Rose	3 Gal	2'x3'
SGM	12	Spiraea X Bamalda 'Goldmound'	Goldmound Spirea	3 Gal	4'x4'
TD	15	Taxus Media 'Densiformis'	Taxus Densiformis	3 Gal	6'x4'
TE	3	Taxus x Media 'Everlow'	Everlow Taxus	3 Gal	2'x5'
THM	21	Thuja Occidentalis 'Hetz Midget'	Hetz Midget Arborvitae	3 Gal	4'x4'
WSW	9	Weigela Florida 'Bokraspiwi'	Spilled Wine Weigela	3 Gal	3'x4'
		Perennials			
RBE	35	Rudbeckia Fulgida 'Goldstrum'	Black Eyed Susan	1 Gal	2'x2'

Other Perinnials may be added for color + contrast upon approval including but not limited to:

Catmint	Liriope
Coneflower	Creeping Phlox
Cora Bells	Salvia
Coreopsis	Sedum
Daisy	Veronica
Hosta	

**Contractor reserves the right to make substitutions depending on plant availability, health and size

Natural Bufferyard

This area will contain a mixture of trees + shrubs to include but not limited to:

Hardwood Trees
- Acer - Maple
- Aesulus - Horse Chestnut or Buckeye
- Catalpa
- Fagus - Beech
- Ginkgo
- Nyssa - Blackgum
- Platanus - London Planetree
- Quercus- Oak
- Taxodium - Bald Cypress
- Ulmus - Elm

Ornamental Trees
- Amelanchier - Serviceberry
- Cercis - Redbud
- Cornus - Dogwood
- Crataegus - Hawthorn
- Magnolia
- Malus - Crabtree
- Prunus- Cherry

Shrubs
- Aronia - Chokeberry
- Forsythia
- Hamamelis - Witch Hazel
- Juniperus - Juniper
- Viburnum

Trees will be a Minimum of 1" Cal

Shrubs will be a Minimum of 3'

DESIGNED BY: R. FUESNER
DRAWN BY: R. FUESNER
CHECKED BY: E. DUFFY
PROJECT MANAGER:
SHEET SIZE: 30x42
DATE:
SHEET ISSUE:
PROJECT NO: 222503
PLOT SCALE: 1" = 30'-0"

MARK	DESCRIPTION	DATE
	ARCHITECTURAL SITE PLAN	

MONROE MUNICIPAL SERVICES CENTER
200 CLARK BLVD
MONROE, OH 45050

SHEET IDENTIFICATION
A-010a

Plot Date: 4/8/2026 12:05:51 PM File Path: Autodesk Docs://Monroe Municipal Services Center/222503_A_Monroe Mun Svcs Ctr_R24.rvt

Stormwater Pollution Prevention Plan

for:

Monroe Municipal Services Center
Proposed 8.37 Acre Parcel
200 Clark Blvd.
Monroe, OH 45044

Operator(s):

HGC Construction
Nick Beamish
2814 Stanton Avenue
Cincinnati, OH 45206
(513) 861-8866
nbeamish@hgcconstruction.com

SWPPP Contact(s):

Infrastructure & Development Engineering, Inc.
Timothy Foster
8899 Brookside Ave, Suite 202-A
West Chester, OH 45069
(513) 671-8144 x105
timf@ide-oh.com

SWPPP Preparation Date:

3/31/26 (Revised 3/31/26)

Estimated Project Dates:

Project Start Date: 05 / 18 / 2026
Project Completion Date: 06 / 18 / 2027

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SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: Monroe Municipal Services Center

Project Street/Location: 200 Clark Blvd

City: Monroe State: OH ZIP Code: 45044

County or Similar Subdivision: Butler

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:	Longitude:
1. 39º 26' 29" N (degrees, minutes, seconds)	1. 84º 24' 42" W (degrees, minutes, seconds)
2. _ _ º _ _ . _ _' N (degrees, minutes, decimal)	2. _ _ º _ _ . _ _' W (degrees, minutes, decimal)
3. _ _ . _ _ _ _ º N (decimal)	3. _ _ . _ _ _ _ º W (decimal)

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale: _____) ☐ EPA Web site ☐ GPS

☒ Other (please specify): Google Earth

Is the project located in Indian country? ☐ Yes ☒ No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." not applicable

Is this project considered a federal facility? ☐ Yes ☒ No

NPDES project or permit tracking number: TBD

1.2 Contact Information/Responsible Parties

Owner(s):

City of Monroe
Gary Morton, Public Works
1000 Holman Ave
Monroe, OH 45050
(513) 727-8953
mortong@monroeohio.gov

Operator/General Contractor:

HGC Construction
Nick Beamish
2814 Stanton Ave
Cincinnati, OH 45206
(513) 861-8866
nbeamish@hgcconstruction.com

SWPPP Contact(s):

HGC Construction
Nick Beamish
2814 Stanton Ave
Cincinnati, OH 45206
(513) 861-8866
nbeamish@hgcconstruction.com

This SWPPP was Prepared by:

Infrastructure & Development Engineering, Inc.
Timothy Foster, PE
8899 Brookside Ave, Suite 202-A
West Chester, OH 45069
(513) 671-8144 x105
timf@ide-oh.com

Emergency 24-Hour Contact:

HGC Construction
Nick Beamish
(317) 649-5019

1.3 Nature and Sequence of Construction Activity

Describe the general scope of the work for the project, major phases of construction, etc:

HGC Construction is the General Contractor and is responsible for overall site development. Soil disturbing activities will include clearing and grubbing; installing stabilized construction exits; installing erosion and sediment controls; earthwork, storm sewers, and grading. Temporary or Final Stabilization will be performed when operations are completed.

PRIOR TO MAJOR ACTIVITIES
1. Install perimeter silt fences (See Section 2, Part 2.7)
2. Install storm drain inlet protection (Section 2, Part 2.6)
3. Construct stabilized construction exits (Section 2, Part 2.9)
4. Construct water and sediment traps (Section 2, Part 2.8)
5. Install temporary sanitary facilities and dumpsters (Section 3, Part 3.1)

MAJOR ACTIVITIES
1. Begin site clearing and grubbing operations
2. Begin overall site grading and improvements
3. Disturbed areas where construction will cease for more than 14 days will either be further developed by other contractors or will be permanently stabilized (Section 2, Part 2.4).
4. Remove all temporary control BMPs and install Post-Construction BMP

What is the function of the construction activity?
☐ Residential ☐ Commercial ☐ Industrial ☒ Road Construction ☒ Linear Utility
☒ Other (please specify): Municipal Facility

Estimated Project Start Date: 05 / 18 / 2026
Estimated Project Completion Date: 06 / 18 / 2027

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

- See Geotechnical Report

Slopes:

- See Construction Drawings

Drainage Patterns:

- Preconstruction stormwater runoff flows north to Clark Blvd and into northern adjacent properties through open channels to an unnamed tributary to Coldwater Creek.
- Following grading and improvements, stormwater runoff will flow to the northwest side of the site through erosion and sediment controls into a retention basin, to existing unnamed tributary, ultimately to Coldwater Creek.

Vegetation:

- The site is currently undeveloped vegetated land.

1.5 Construction Site Estimates

The following are estimates of the construction site.

Total project area:	31 ac. watershed
Construction site area to be disturbed:	14 ac. (7.4 ac. imp.)
Percentage impervious before construction:	0 %
Runoff coefficient before construction:	0.55
Percentage impervious area after construction:	52% (Dist.) 24% (Shed)
Watershed runoff coefficient after construction	0.70 (Plan) 0.92 (Future)

1.6 Receiving Waters

Description of receiving waters and storm sewer system:
On-site private storm sewers or swales to a proposed retention basin ultimately to unnamed tributary to Coldwater Creek ultimately.

Description of combined sewer systems: None

Description of impaired waters or waters subject to TMDLs:
No impaired waters or waters subject to TMDLs are associated with this project.

1.7 Site Features and Sensitive Areas to be Protected

Description of unique features that are to be preserved:

The development is characterized by a slope from the south side to the north side of the project. The south side of the development will be preserved. The storm water runs to a proposed retention basin at the northwest side of the project and ultimately to an unnamed tributary to Coldwater Creek. No other streams, rivers, lakes, or wetlands are present on this site.

Describe measures to protect these features:
Sediment features will be utilized to ensure sediment does not enter the waterways.

1.8 Potential Sources of Pollution

Potential sources of sediment to stormwater runoff:

- Clearing and Grubbing operations
- Excavation/Backfill operations
- Grading operations
- Vehicle tracking

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Staging Area/Secondary Containment – fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste management.
- Materials Storage Areas – stockpiles of concrete and asphalt

For all potential construction site pollutants, see Table below.

Trade Name Material	Stormwater Pollutants	Location
Cleaning solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum	No equipment cleaning allowed in project limits
Hydraulic oil/fluids	Mineral oil	Leaks or broken hoses from equipment
Antifreeze/coolant	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Bacteria, parasites, and viruses	Staging area

See section 3.6 for response action should any of these pollutants be encountered onsite.

1.9 Endangered Species Certification

Are endangered or threatened species and critical habitats on or near the project area?

☐ Yes ☒ No

Describe how this determination was made:

IDE research into endangered species in the region and their habitats.

If yes, describe the species and/or critical habitat:

Not Applicable

If yes, describe or refer to documentation that determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact.

Not Applicable

1.10 Historic Preservation

Are there any historic sites on or near the construction site?

☐ Yes ☒ No

Describe how this determination was made:

Information provided by HGC Construction.

If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact.

Not Applicable

1.11 Applicable Federal, Tribal, State or Local Programs

Not Applicable

1.12 Maps

See Maps.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

All disturbed areas drain to silt fences or a centralized drainage ditch with rock check damns into a sediment basin outfitted with a faircloth skimmer, allowing sediment to settle out before runoff is directed to the unnamed tributary to Coldwater Creek. Topsoil will be stockpiked and re-used. For disturbed areas within 50 feet away from a stream remaining dormant for over 14 days, provide temporary erosion controls within 2 days. For disturbed areas over 50 feet away from a stream remaining formant for over 14 days, provide temporary erosion controls within 7 days. For disturbed areas left idle over winter (if any), provide temporary erosion controls before the onset of winter weather.

All BMPs are to be inspected once every 7 calendar days and after every > 0.5-inch rain event per 24-hour period by the end of the next calendar day (excluding non-working weekends and holidays) (III.G.2.i)

2.2 Phase Construction Activity

- Site Work Demo and Earthwork
  - Clearing, Rough Grading, Utilities
  - 5/18/26-8/21/26

- Site Work Infrastructure
  - Grading, Utilities and Pavements
  - 3/1/27-6/18/27

2.3 Control Stormwater Flowing onto and through the Project

No stormwater is flowing onto or through the project on the surface, except for those areas upstream of the site. These are incorporated into the drainage design. No other BMPs are proposed for this category. No streams, rivers, lakes, or wetlands exist on the project site except those already discussed and those being protected on plans.

2.4 Stabilize Soils

Temporary Stabilization

BMP Description: Hydromulching will provide immediate protection to exposed soils where construction will cease for more than 14 days and over the winter months. Straw mulch and wood fiber will be mixed with a tackifier (amount specified per manufacturer's instructions) and applied uniformly by machine with an application rate of 90–100 pounds (2–3 bales) per 1,000 square feet or 2 tons (100–200 bales) per acre. If the tackifier does not appear effective in anchoring the mulch to the disturbed soil, crimping equipment will be used to provide additional binding to the soil. The mulch will cover 75 to 90 percent of the ground surface. In areas, where hydromulching is inaccessible, straw mulch will be applied by hand with an application rate of 90–100 pounds (2–3 bales) per 1,000 square feet.

☐ ***Permanent***	☒ ***Temporary***
Installation Schedule:	HGC is responsible for either Final Stabilization or providing Temporary Stabilization while the secondary contractor constructs the building. Portions of the site where construction activities will temporarily cease for more than 14 days will be stabilized with mulch by HGC within 7 days.
Maintenance and Inspection:	Mulched areas will be inspected weekly and after storm events to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, the surface will be repaired, and new mulch will be applied to the damaged area.
Responsible Staff:	HGC

Dust Control

BMP Description: Dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as necessary to prevent runoff and ponding.

☐ ***Permanent***	☒ ***Temporary***
Installation Schedule:	Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than once per day during the months of October–April or whenever the dryness of the soil warrants it.
Maintenance and Inspection:	At least one mobile unit will be available at all times to distribute potable water to control dust on the project area. Each mobile unit will be equipped with a positive shutoff valve to prevent over watering of the disturbed area. For vehicle and equipment maintenance practices, see Section 3, Part 3.4.

The following table identifies acceptable temporary seeding species and the appropriate time of year for each species to be utilized, as established by Ohio EPA Rainwater and Land Development Manual:

Seeding Dates	Species	Lb./1000 ft2	Lb/Acre
March 1 to August 15	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (4 Bushel) 40 40
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	55 142 17 17
	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (3 bushel) 40 40
August 16th to November	Rye Tall Fescue Annual Ryegrass	3 1 1	112 (2 bushel) 40 40
	Wheat Tall Fescue Annual Ryegrass	3 1 1	120 (2 bushel) 40 40
	Perennial Rye Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	40 40 40
November 1 to Feb. 29	Use mulch only or dormant seeding		

Note: Other approved species may be substituted.

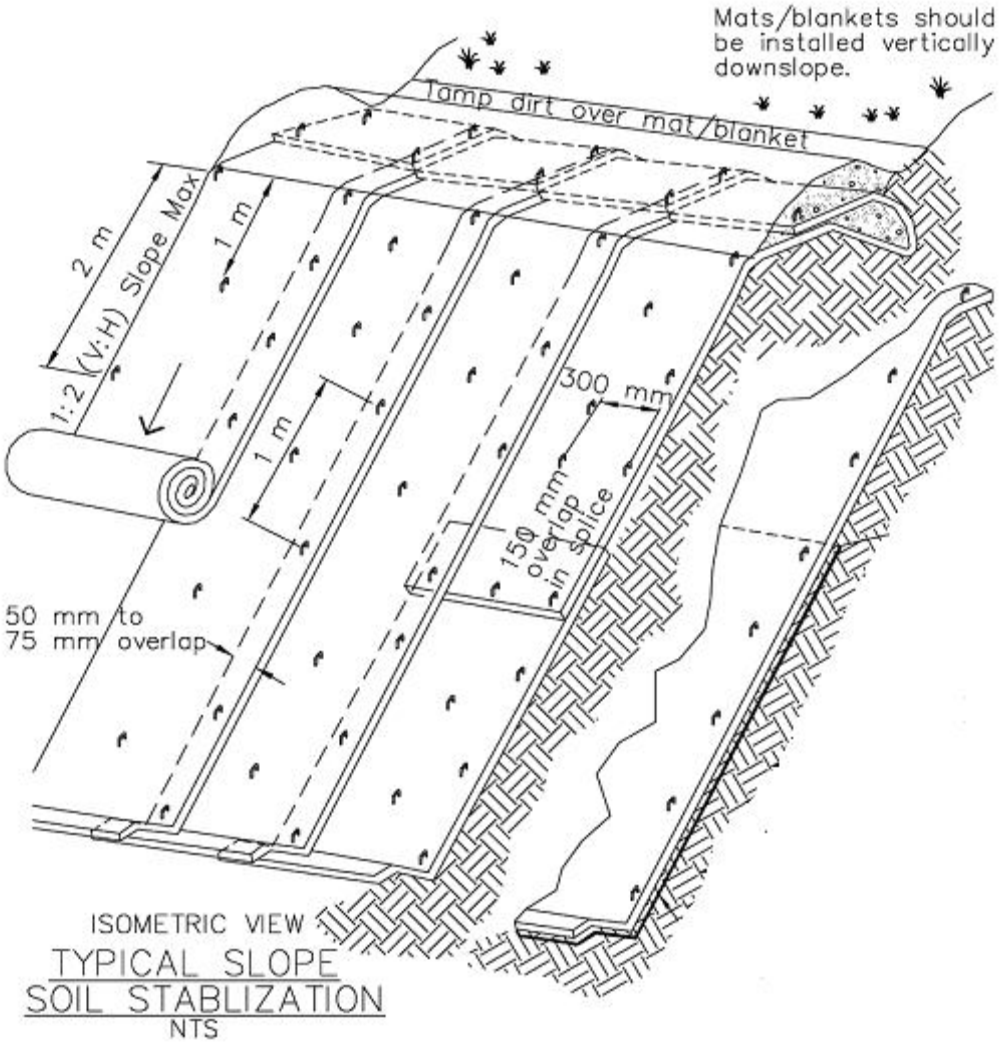
2.5 Protect Slopes

Geotextiles and Geofabrics

See plans for other Sediment Control Devices and Locations and their details

BMP Description: Geotextile erosion control blankets will be used to provide stabilization for the slopes in the sediment traps. The blanket will cover the entire area of the graded slope and bottom channel. The bottom and side slopes will be seeded and mulched before the blanket is applied. The blanket will be installed by digging a small trench on the upside of the slope, 12 inches wide by 6 inches deep, and stapling the leading edge of the blanket in the trench. The blanket will be rolled down the slope slowly to maintain soil contact and stapled in 12-inch intervals. If the blanket cannot cover the entire slope, the blankets will be overlapped (minimum of 2 inches) and stapled at the overlapped edge. The erosion control blanket will always be installed according to the manufacturer's instructions and specifications.

Installation Schedule:	The erosion control blankets will be installed once the sediment traps have reached final grade.
Maintenance and Inspection:	The erosion control blankets will be inspected weekly and immediately after storm events to determine if cracks, tears, or breaches have formed in the fabric; if so, the blanket will be repaired or replaced immediately. Good contact with the soil must be maintained and erosion should not occur under the blanket. Any areas where the blanket is not in close contact with the ground will be repaired or replaced
Responsible Staff:	HGC



2.6 Protect Storm Drain Inlets

Existing Storm Drain Inlets

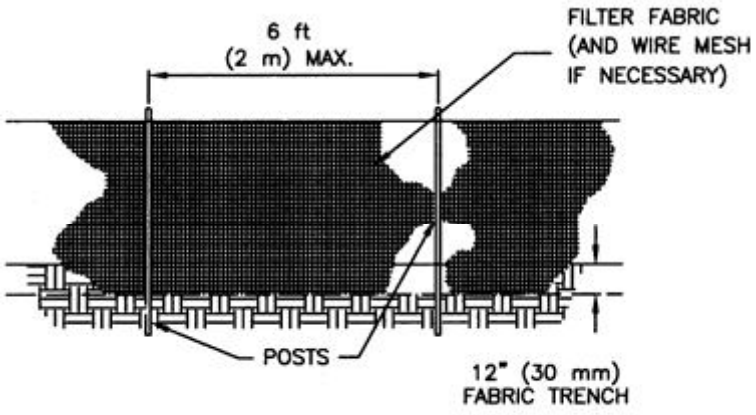
BMP Description: Existing storm drain inlets will be protected from sediment until their removal by commercially available catch basin inserts. Commercial devices, such as the catch basin inserts that are installed inside the inlet, will be used because of the heavy construction traffic on this site. These commercial devices were selected over gravel bag or block and gravel filters because of safety concerns. The catch basins will be removed during construction, except for the basins serving as part of the sediment trap, to be removed at substantial completion. Inlets that are not directly connected to the central sediment trap and that receive runoff from one or more acres will be addressed by placing intermediate sediment traps in the area to divert the runoff from the inlets.	
Installation Schedule:	Inlet catch basins will be installed before construction activities begin on-site.
Maintenance and Inspection:	The catch basin inserts will be inspected weekly and immediately after storm events. If the basin insert becomes clogged with sediment, the insert will be removed and cleaned or replaced per the manufacturer's recommendations.
Responsible Staff:	HGC

2.7 Establish Perimeter Controls and Sediment Barriers

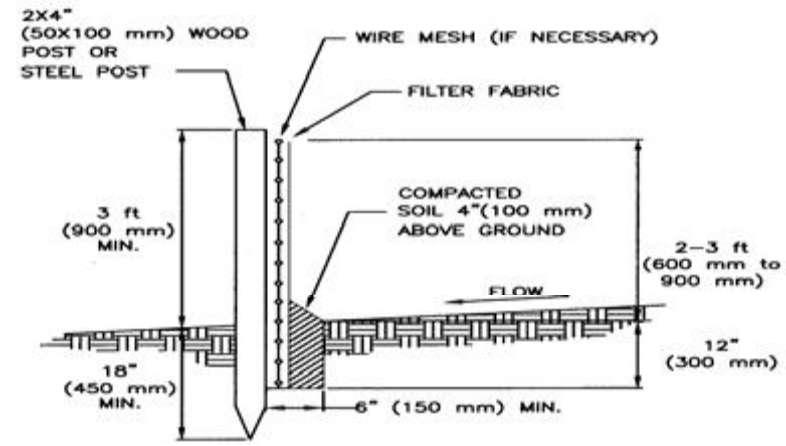
Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation and the uphill side of the silt fence posts. Wooden posts, minimum 4.5 feet, supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. Fabric will be securely fastened to posts with half-inch staples or 16-gauge wire ties spaced a maximum of 6 inches. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled to 4 inches above ground and compacted to bury and secure the bottom of the filter fabric and prevent stormwater and sediment from discharging underneath the silt fence.	
Installation Schedule:	The silt fences will be installed before construction begins at the site and around stockpiles once they have been established.
Maintenance and Inspection:	Silt fences will be inspected weekly and immediately after storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence. If accumulated sediment is creating noticeable

	strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months.
Responsible Staff:	HGC



FRONT VIEW



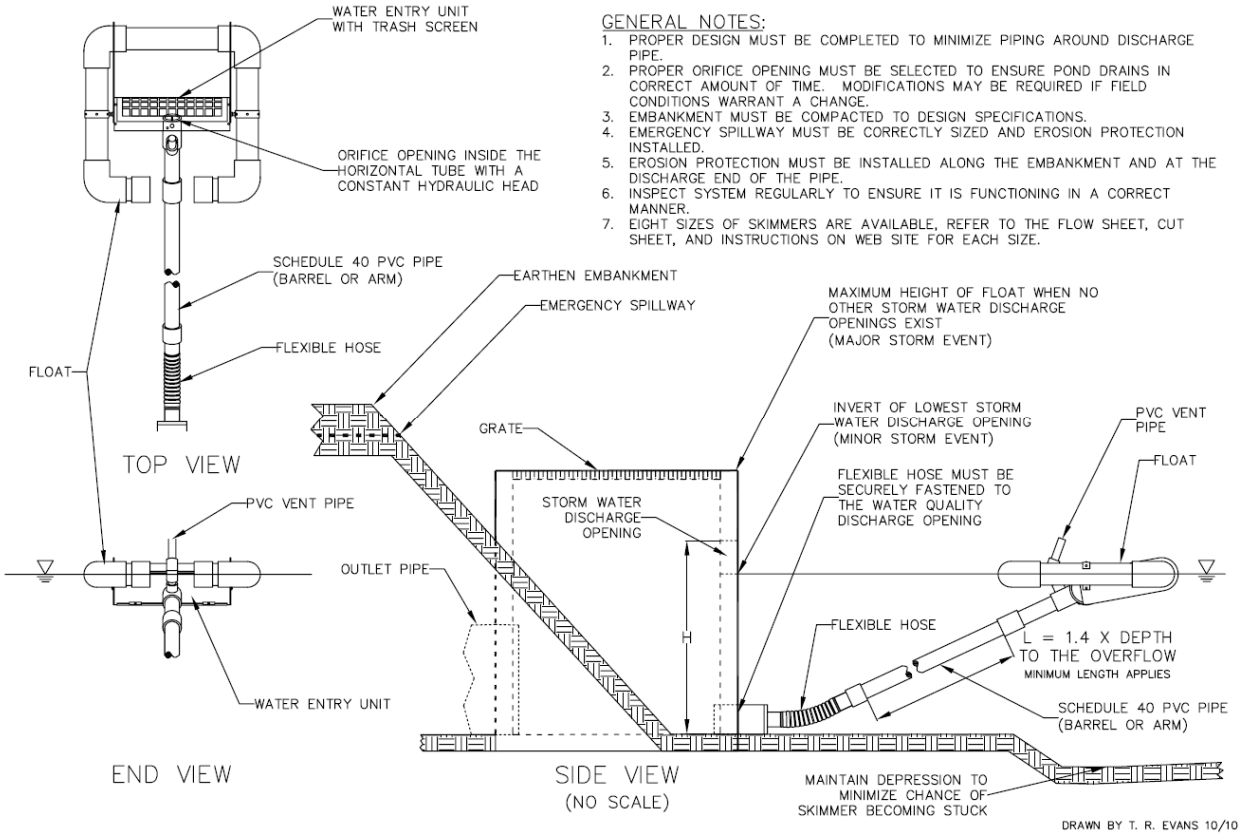
2.8 Retain Sediment On-Site

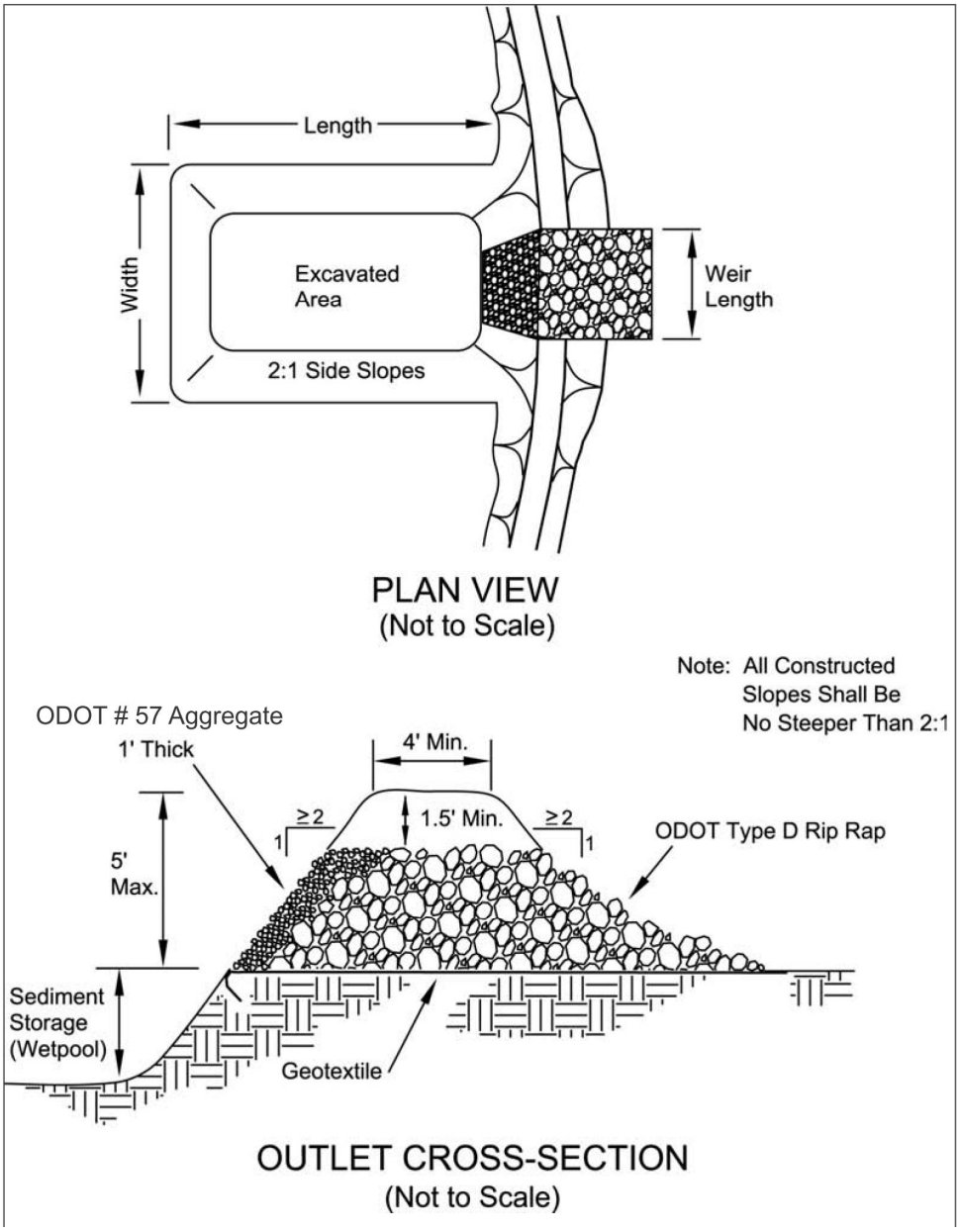
Temporary Sediment Basin and Temporary Sediment Traps

See plans for other Sediment Control Devices and Locations and their details

BMP Description: The basins and traps throughout the site will be constructed to have a total volume of 40,000 cubic feet. The design volume is based on Ohio EPA's erosion and sediment control requirements, which requires a minimum of 2,800 cubic feet of storage per acre of drainage area for a sediment trap, storage zone plus dewatering zone. 14 acres are being disturbed. The traps will discharge through a riser outlet. The slopes of the trap will be stabilized with erosion control blankets. The sediment traps will be removed as the site is being developed/stabilized by the contractor. Dewatering will be by Faircloth Skimmer with orifice per Erosion & Sediment Plan. First half of dewatering drain in more than one-third of the total

drain time. Dewatering device to meet Ohio's Rainwater and Land Development Manual. Sediment storage zone must be cleaned out when sediment occupies 50 percent of the sediment storage zone and prior to conversion to post-construction BMP.	
Installation Schedule:	The sediment traps will be installed before grading operations commence at the construction site.
Maintenance and Inspection:	The traps will be inspected weekly and after storm events. The traps will be checked for signs of erosion, seepage, and structural damage. The outlet and trash rack will be checked for any damage or obstructions and any damage present will be repaired and obstructions removed. Sediment will be removed and the trap restored to its original dimensions when the sediment has accumulated to one-half the design depth of the trap. The removed sediments will be removed.
Responsible Staff:	HGC



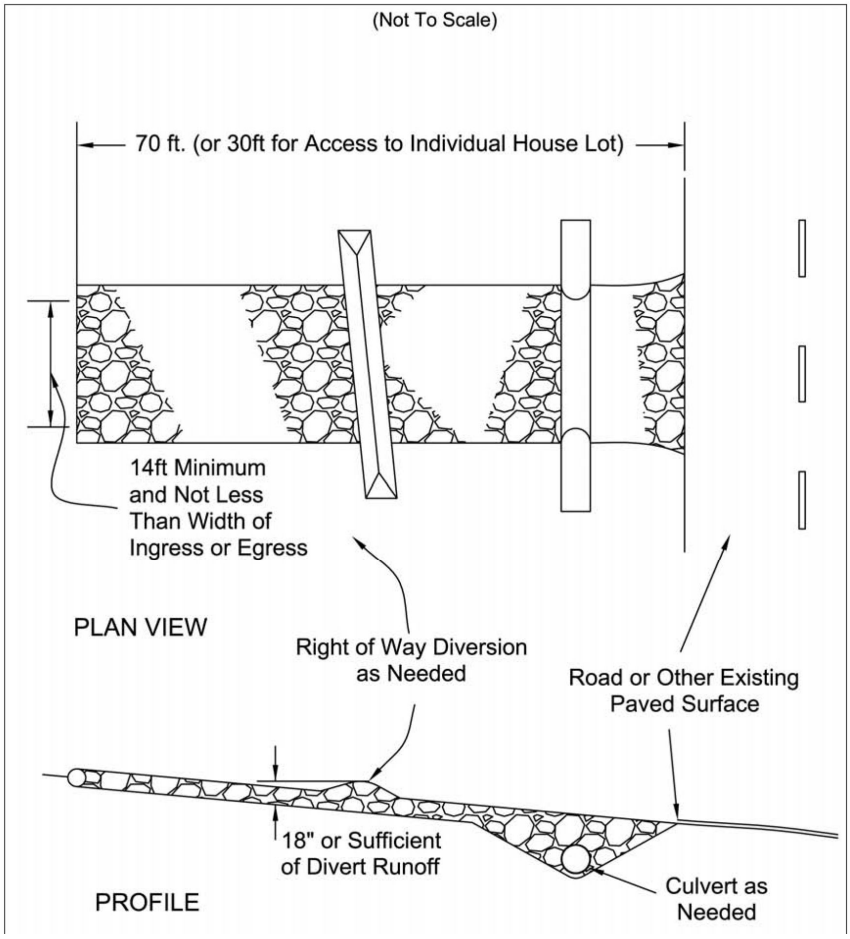


2.9 Establish Stabilized Construction Exits

Stabilized Construction Exits

BMP Description: Anti-tracking pads consisting of stone will be installed at the exits to streets specified to remain intact, as identified on the site map, to prevent the off-site transport of sediment by construction vehicles. The anti-tracking pads will be at least 70 feet long, a minimum of 14 feet wide, flared at the end closest to the paved road. The crushed stone will be placed over a layer of geotextile filter fabric to reduce the mitigation of sediment from the underlying soil.

Installation Schedule:	The stabilized exits will be installed before construction begins on the site. The stone will remain in place until the temporary stabilization and site operations are complete. The anti-tracking pads will remain until all areas of the site have been stabilized.
Maintenance and Inspection:	The exits will be inspected weekly and after storm events or heavy use. The exits will be maintained in a condition that will prevent tracking or flowing of sediment onto streets not meant to be disturbed. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto streets will be swept up immediately and removed. Sediment will be swept from the antitracking pad at least weekly, or more often if necessary. If excess sediment has clogged the pad, the exit will be topdressed with new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road pavement as a result of construction activities on roadways immediately adjacent to the project site will be repaired immediately. The stone anti-tracking pad will be removed at temporary site stabilization.
Responsible Staff:	HGC



2.10 Additional BMPs

Rip Rap

Standard size rip rap in accordance with ODOT specifications shall be utilized in areas of concentrated flow (ditches formed by drainage paths) and steep slopes to reduce flow rates.

Also, specifically those shown on the approved plans and Erosion & Sediment Control details.

SECTION 3: GOOD HOUSEKEEPING BMPS

3.1 Material Handling and Waste Management

Sanitary Waste

BMP Description: Temporary sanitary facilities (portable toilets) will be provided at the site throughout the construction phase. The toilets will be in the staging area. The portable toilets will be located away from concentrated flow paths and traffic flow and will have collection pans underneath as secondary containment.	
Installation Schedule:	The portable toilets will be brought to the site once the staging area as been established
Maintenance and Inspection:	All sanitary waste will be collected from the portable facilities a minimum of three times per week or as appropriate for the site. The portable toilets will be inspected weekly for evidence of leaking holding tanks. Toilets with leaking holding tanks will be removed from the site and replaced with new portable toilets.
Responsible Staff:	HGC

3.2 Establish Proper Building Material Staging Areas

Building Material Staging Areas may be needed at location of the proposed utility extensions, however, the lack of available space will require many items to be installed directly and not stored on-site.

3.3 Designate Washout Areas

Washout areas will be handled per notes on the erosion and sediment control plan.

3.4 NOT USED

3.5 Control Equipment/Vehicle Washing

All equipment and vehicle washing will be performed off-site.

3.6 Spill Prevention and Control Plan

Spill Prevention and Control Procedures

BMP Description:

i. Employee Training: All employees will be trained via sessions, as detailed in Section 6, Part 6.3.
ii. Vehicle Maintenance: Vehicles and equipment will be maintained off-site. All vehicles and equipment will be checked for leaking oil and fluids. Vehicles leaking fluids will not be allowed on-site. Drip pans will be placed under appropriate and leak-prone vehicles and equipment that are parked overnight.
iii. Hazardous Material Storage: Hazardous materials will be stored in accordance with Section 3, Part 1 and federal and municipal regulations.
iv. Spill Kits: Spill kits will be within the vehicle fueling areas.
v. Spills: All spills will be cleaned up immediately upon discovery. Spent absorbent materials and rags will be hauled off-site immediately after the spill is cleaned up for disposal. Spills large enough to discharge to surface water will be reported to the National Response Center at 1-800-424-8802.
vi. Material safety data sheets, a material inventory, and emergency contact information will be maintained at the on-site project trailer.

Installation Schedule:	The spill prevention and control procedures will be implemented once construction begins on-site.
Maintenance and Inspection:	All personnel will be instructed, during sessions, regarding the correct procedures for spill prevention and control. Notices that state these practices will be posted in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.
Responsible Staff:	HGC

3.7 Any Additional BMPs

No additional BMPs are proposed for this project, except for those shown on the plans.

3.8 Allowable Non-Stormwater Discharge Management

List allowable non-stormwater discharges and the measures used to eliminate or reduce them and to prevent them from becoming contaminated:

Process Wastewater will not be produced on this site. Leachate from on-site questionable soil will be captured and tested, see Soil Remediation Plan for more. Any changes in construction activities that produce other allowable non-stormwater discharges will be identified, and the SWPPP will be amended and the appropriate erosion and sediment control will be implemented.

Water Used to Control Dust

BMP Description: Dust control will be implemented as needed once site grading has begun and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water at a rate of 300 gallons per acre or less will be performed by a mobile pressure-type distributor truck no more than once per day during the months of October–April or whenever the dryness of the soil warrants it.	
Responsible Staff:	HGC

SECTION 4: SELECTING POST-CONSTRUCTION BMPs

Post-Construction BMP is as shown on the final site plan drawings and will be installed in accordance with the installation and material recommendations of the manufacturer of the specified Post-Construction BMP.

All BMPs are inspected once every 7 calendar days and after every > 0.5-inch rain event per 24-hour period by the end of the next calendar day (excluding non-working weekends and holidays) (III.G.2.i)

SECTION 5: INSPECTIONS

5.1 Inspections

1. ***Inspection Personnel:*** Identify the person(s) who will be responsible for conducting inspections and describe their qualifications:

   Mr. Nick Beamish is the Representative for HGC and is responsible for site compliance with the SWPPP and construction permit requirements. Mr. Nick Beamish is the operator and will conduct inspections for all areas of the site disturbed by construction activities, areas used for storage of materials that are exposed to precipitation, discharge points, and construction exits. Mr. Beamish has years of experience in designing construction sites and understanding stormwater controls.

2. ***Inspection Schedule and Procedures:***

   Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g., before/during/and after rain events, spot inspections. Only qualified inspection personnel are permitted to perform inspections:

   Inspections of the site will be performed once every 7 days and within 24 hours of the end of a storm event of one-half inch or greater. The inspections will verify that all BMPs required in Sections 2 and 3 are implemented, maintained, and effectively minimizing erosion and preventing stormwater contamination from construction materials – including all silt fence, ditch checks, material storage areas, temporary construction entrances, and sediment basins. For detailed inspection procedures, see Sections 2 and 3. The site will not be dormant for a long period and less frequent inspections will NOT be required; however, inspection frequency may be reduced to monthly for dormant sites if the entire site is temporarily stabilized of runoff is unlikely due to weather conditions for extended periods of time.

   All inspections will be coordinated with Owner. Inspection records will be kept for 3 years after the termination of construction activities.

   Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

   If corrective actions are identified by Mr. Beamish during the inspection, he will notify and submit a copy of the inspection report to the project manager. For corrective actions identified, Mr. Beamish will be responsible for initiating the corrective action within 24 hours of the report and completing maintenance as soon as possible or before the next storm event. For any corrective actions requiring a SWPPP amendment or change to a stormwater conveyance or control design, Mr. Beamish will notify the onsite project manager, as soon as possible, before initiating the corrective action.

See attached for a copy of the inspection reports for this site.
See Appendix C – Inspection Reports

5.2 Delegation of Authority

Duly Authorized Representative(s) or Position(s):

HGC Construction
Nick Beamish
2814 Stanton Ave
Cincinnati, OH 45206
(513) 861-8866
nbeamish@hgcconstruction.com

5.3 Corrective Action Log

See attached for a log of corrective actions:
See Appendix D – Corrective Action Log

SECTION 6: RECORDKEEPING AND TRAINING

6.1 Recordkeeping

Records will be retained for a minimum period of at least 3 years after the project is complete.

Date(s) when major grading activities occur:
See Appendix G – Grading and Stabilization Activities Log
Date(s) when construction activities temporarily or permanently cease on a portion of the site:
See Appendix G – Grading and Stabilization Activities Log
Date(s) when an area is either temporarily or permanently stabilized:
See Appendix G – Grading and Stabilization Activities Log

6.2 Log of Changes to the SWPPP

See attached for a log of changes and updates to the SWPPP
See Appendix E – SWPPP Amendment Log

6.3 Training

Individual(s) Responsible for Training:

Mr. Nick Beamish

Describe Training Conducted:

- General stormwater and BMP awareness training for staff and subcontractors:

  Mr. Beamish will conduct informal training for all staff on the site. The training will be conducted primarily via sessions and will focus on avoiding damage to stormwater BMPs and preventing illicit discharges. The sessions will be conducted as appropriate and will address the following topics: Erosion Control BMPs, Sediment Control BMPs, Non-Stormwater BMPs, Waste Management and Materials Storage BMPs, and Emergency Procedures specific to the construction site. (See Appendix G – SWPPP Training Log)

- Detailed training for staff and subcontractors with specific stormwater responsibilities:

  Mr. Beamish will provide formal training to all staff with specific stormwater responsibilities, such as installing and maintaining BMPs. The formal training will cover all design and construction specifications for installing the BMPs and proper procedures for maintaining each BMP. Formal training will occur before any BMPs are installed on the site. (See Appendix G – SWPPP Training Log)

SECTION 7: FINAL STABILIZATION

HGC is to provide Final Seeding of the disturbed areas and final asphalt pavement. If Final Seeding and/or final asphalt cannot be performed due to project coordination or scheduling, HGC shall provide temporary seeding and the temporary asphalt base, and will provide permanent seeding and final asphalt at a later date.

SECTION 8: CERTIFICATION AND NOTIFICATION

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

This SWP3 complies with the requirements of the MS4 stormwater management program (if applicable). Additional signatures below are for all contractors and subcontractors, acknowledging they have reviewed and understand the SWP3.

Name: _____ Title: _____

Signature: _____ Date: _____

Name: _____ Title: _____

Signature: _____ Date: _____

Name: _____ Title: _____

Signature: _____ Date: _____

Name: _____ Title: _____

Signature: _____ Date: _____

Name: _____ Title: _____

Signature: _____ Date: _____

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – Site Maps

Appendix B – Construction General Permit Requirements

Appendix C – Inspection Reports

Appendix D – Corrective Action Log

Appendix E – SWPPP Amendment Log

Appendix F – Grading and Stabilization Activities Log

Appendix A – Site Maps

Appendix B – Construction General Permit Requirements

Appendix C – Inspection Reports

Appendix D – Corrective Action Log

Project Name: Monroe Municipal Services Center
SWPPP Contact: Nick Beamish, HGC, 317-649-5019

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

Appendix E – SWPPP Amendment Log

Project Name: Monroe Municipal Services Center
SWPPP Contact: Nick Beamish, HGC, 317-649-5019

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

Appendix F – Grading and Stabilization Activities Log

Project Name: Monroe Municipal Services Center
SWPPP Contact: Nick Beamish, HGC, 317-649-5019

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

Table of Contents

Page 2 – Executive Summary of Design, Parameters for Design

Page 3 – Existing Conditions, Time of Concentration, Critical Storm

Page 4 – Proposed Conditions, Bypass Areas

Page 5 – Water Quality Volume, Retention Pond Design

Page 6 – Retention Continued, Peak Stormwater Pipe Design

Attachments

Rational Method Pipe Sizing Table (Peak) – 2 pages

HydroCAD Detention/Storm Design Printouts

- Monroe TR55 – PreDev & Post Retention – 29 pages
- Monroe TR55 – Retention 10-year Critical – 23 pages
- Monroe Rational – Peak Flows – 155 pages
- Monroe Rational – Peak Future – 162 pages

Engineer-of-Record

Timothy S. Foster, Ohio PE #76304



Executive Summary of Design

The proposed project involves a new campus facility for City of Monroe on roughly 8.37 acres (size of proposed parcel). Development also includes a 300 linear foot public street extension of Clark Blvd. Additionally, west of the new parcel on the parent tract, a regional retention basin is being provided. Total site disturbance planned is roughly 14 acres. See sheet C-106 drainage map.

The parent parcel for this project is roughly 104.5 acres currently, before any lot split or R/W dedication. On the 8.37 acre subject site, some areas will be grass in this current scope but are planned to be future buildings and hard surfaces, thus retention calculations account for those future hard surfaces now.

In the area of development and including the upstream watershed, there is an area of 31 acres that is tributary to and including the development disturbance. This is roughly 14 acres of disturbance (7.4 acres impervious) and roughly 17 acres of tributary area (future development) to south, undisturbed in this phase. In the future, the retention basin will be expanded so that tributary undisturbed acres to the south can be developed. Pipes for this first phase are sized to account for the future buildout.

In this first phase, of those 17 tributary undisturbed acres, 3 acres is tributary directly to the retention basin proposed, 2.4 acres is tributary directly to the swale to the wetland, which will bypass retention, and 11.6 acres is tributary to the HW-02 and pipe. In the first phase, roughly 5.454 acres will bypass the retention basin, 0.43 acres to existing road, 0.70 acres to NE site (100 Clark Blvd), 1.00 acre to NW site (101 Clark Blvd), and 3.32 acres via swale to existing wetland and ultimately to NW site (101 Clark).

In future phases, not shown on construction plans, retention basin will be expanded and assuming 85% impervious on future development of upstream area, the future development of the 11.6 acres south of the subject site will no longer enter HW-02 but it will be future piped in MH-06. In addition, the bypass in the future will reduce by 3.32 acres as this area into the wetland will enter expanded retention basin, but that future development and retention expansion is not currently part of this design, except that pipes at MH-06, MH-04, CB-17 are sized for the future peak flows.

Parameters for Design

The following are the NRCS TR-55 SCS Type II 24-Hr rainfall totals per NOAA Atlas Vol 2 (PFDS). These precipitation depths have been used for the hydrologic and retention volume design modeling.

1-year	2-year	5-year	10-year	25-year	50-year	100-year
2.34 in	2.80 in	3.42 in	3.90 in	4.54 in	5.05 in	5.56 in

The proposed storm systems and peak hydraulic design will utilize same criteria but we have modeled the peak flows using rational method intensities using the same NOAA Atlas Vol 2 (PFDS), below.

1-year	2-year	5-year	10-year	25-year	50-year	100-year
2.82 in/hr	3.34 in/hr	3.94 in/hr	4.37 in/hr	4.89 in/hr	5.27 in/hr	5.62 in/hr

*these are maximum intensities based on a minimum time of concentration of 15 minutes.

Existing Conditions

In the area of development and including the upstream watershed, 15.6 acres are currently tributary to the northeast property at 100 Clark Blvd. 15.4 acres are tributary to wetlands and northwest property at 101 Clark Blvd., through swales and storm sewers to Clearwater Creek.

TR-20	1-Year	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
Site W Pre	3.77 cfs	5.57 cfs	8.19 cfs	10.34 cfs	13.31 cfs	15.74 cfs	18.20 cfs
Site E Pre	5.94 cfs	8.76 cfs	12.86 cfs	16.21 cfs	20.84 cfs	24.62 cfs	28.45 cfs
Site Total	9.39 cfs	13.87 cfs	20.41 cfs	25.76 cfs	33.15 cfs	39.20 cfs	45.34 cfs
Offsite W	3.33 cfs	5.60 cfs	9.07 cfs	12.03 cfs	16.23 cfs	19.73 cfs	23.33 cfs
Offsite E	2.67 cfs	4.47 cfs	7.26 cfs	9.63 cfs	12.98 cfs	15.77 cfs	18.65 cfs
Offsite Tot	5.79 cfs	9.73 cfs	15.77 cfs	20.90 cfs	28.21 cfs	34.29 cfs	40.56 cfs
W Pre	6.70 cfs	10.69 cfs	16.79 cfs	21.87 cfs	29.00 cfs	34.90 cfs	40.95 cfs
E Pre	8.16 cfs	12.71 cfs	19.54 cfs	25.22 cfs	33.16 cfs	39.74 cfs	46.44 cfs
Total	15.16 cfs	23.70 cfs	36.46 cfs	47.04 cfs	61.84 cfs	74.04 cfs	86.46 cfs

The intent is to treat the 14 acre disturbed site to pre-development and critical storm levels, but to allow the 17 acres of non-disturbed upstream watershed to pass thru at unretained levels. As in, we do not plan to reduce upstream undisturbed watershed runoff to critical storm levels. Future retention basin modifications will reduce the upstream watershed to both pre-dev and critical storm levels in future.

Time of Concentration

Using TR-20 methodology and Lag/CN methods, we determined that Tc varied between 22 minutes and up to 30 minutes for existing upstream. Post-Dev Time of Concentration uses the City rules of 6 minutes for minimum duration and most small watersheds in the development areas utilize that Tc. For peak flows using Rational Method, a minimum time of concentration per city rules of 15 minutes was used.

Critical Storm Determination

Considering the entire 31 acre disturbance and undisturbed watershed, anticipating that 17 acres of upstream watershed will pass thru retention (retention is not sized to detain for future development of those 17 southern acres), then the critical storm calculation considered roughly 31 acres at CN=76, and a proposed 31 acres at CN=85 (not including future to south), only including the proposed 7.4 acres of new hard surface in Phase 1 and the slightly increased post-construction CNs for green space.

Predevelopment Runoff volume = 1.549 acre-feet. Postdevelopment Runoff volume = 2.719 acre-feet. **Proposed percentage increase = 75%, which means a 10-year critical post-development storm.**

Note that we also calculated the FUTURE critical storm when the 17 acres to the south will be developed in the future and any future retention basin expansions will be based on those future CNs, as shown on sheet C-106 (CN = 94, 4.435 acre-feet, 186% increase), again, not incorporated in current design.

Proposed Conditions

Utilizing CN=98 and C=0.98 for hard surfaces, and roughly 7.4 acres of new hard surface, and utilizing CN=84 and C=0.64 for Hydrologic Group D disturbed green space, the following are post-developed). Every area of the development, except for the bypass areas described in next paragraph will be directed to the proposed retention basin which will daylight to the NW, currently receiving half of watershed.

TR-20	1-Year	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
Site W Pst	26.22 cfs	33.48 cfs	43.30 cfs	50.91 cfs	61.02 cfs	69.05 cfs	77.05 cfs
Offsite W	5.79 cfs	9.73 cfs	15.77 cfs	20.90 cfs	28.21 cfs	34.29 cfs	40.56 cfs
W Pst Tot	31.45 cfs	42.87 cfs	58.89 cfs	71.59 cfs	88.75 cfs	102.53 cfs	116.27 cfs

Note that the Post-Developed condition, and the off-site upstream areas are being routed to the west, and no longer routng 50% to the east. These are will be captured by the retention basin. Considering the time-of-concentration being between 22 and 30 minutes for the off-site upstream 17 acres through the project, the time of concentration for the proposed conditions across the entire 31 acres was set at 15 minutes for disturbed and 25 minutes for tributary area, concentration occurring when the off-site upstream areas reach the retention basin. The proposed retention basin will allow these off-site areas to pass thru at non-detained rates (to be handled by future expansions) and roughly 3.3 acres of upstream watershed will bypass retention and maintain flow to wetland. However it is not discussed in the consideration below, as we do not need to over-detain for the wetland flows.

Bypass Areas

There is roughly 2.10 acres of disturbed area that is bypassing the retention basin. This area will have to be accounted for in the flow reduction of the retention basin. Below is based on Tc = 6 minute min.

The bypass area to the west is CN=84, C=0.64, to east is CN=84, C=0.64, to road is CN=89, C=0.76.

TR-20	1-Year	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
Site W	1.78 cfs	2.42 cfs	3.32 cfs	4.03 cfs	4.99 cfs	5.75 cfs	6.52 cfs
Site E	1.25 cfs	1.70 cfs	2.32 cfs	2.82 cfs	3.49 cfs	4.03 cfs	4.57 cfs
Site Rd	1.01 cfs	1.31 cfs	1.71 cfs	2.03 cfs	2.45 cfs	2.78 cfs	3.11 cfs
Site Total	4.00 cfs	5.42 cfs	7.35 cfs	8.88 cfs	10.93 cfs	12.57 cfs	14.22 cfs

Rational	1-Year	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
Site W	1.82 cfs	2.16 cfs	2.54 cfs	2.82 cfs	3.16 cfs	3.40 cfs	3.63 cfs
Site E	1.27 cfs	1.51 cfs	1.78 cfs	1.97 cfs	2.21 cfs	2.38 cfs	2.54 cfs
Site Rd	0.94 cfs	1.11 cfs	1.31 cfs	1.45 cfs	1.63 cfs	1.75 cfs	1.87 cfs
Site Total	4.00 cfs	4.74 cfs	5.60 cfs	6.21 cfs	6.94 cfs	7.48 cfs	7.98 cfs

*based on Tc=15 min

Water Quality Volume

Using City rules and Ohio EPA Construction Site Stormwater Permit guidance, we have calculated that the proposed water quality volumes for the development area as follows:

WQv CALC.

WQv (AC-FT) = Rv*P*A/12

Rv = 0.05+0.9i

i = WATERSHED IMPERVIOUSNESS RATIO

A=	25.672	AC
i =	0.288	
Rv =	0.309	
WQv =	0.595	AC-FT
=	25932.7	CF
+20 % =	**31119.3**	**CF**

Water Quality	**Total Site**	**Actual**
Disturbance	14 Acres	STARTING AT END OF 24 HOUR STORM, 25,000 CF DRAINS IN THE FIRST 8 HOURS, AND COMPLETES WITHIN 36 HOURS.
Hard Surface	7.4 Acres	
Watershed to Reten	25.67 Acres	
WQ Volume Req'd	31119 CF	
Permanent Pool	660.0 (4' deep)	
WQv below Pool	36400 CF	
WQv Elevation	662.22 MIN. MET	663.22 ACTUAL MET
WQv above Pool	31,209 CF MIN. MET	50,000 CF ACTUAL MET

The hydrograph tables in the attached calculations demonstrate that the volumes are met and that the WQv is drained in each basin over a 32 to 36 hour period, meeting OEPA Retention drawdown times.

Retention Pond Design

The on-site watershed to the retention pond is 25,676 acres, with 3.32 acres of undisturbed bypassing retention to continue to service the wetland and drain to the NW ultimate outlet, and then another 2 acres of disturbed bypass that will need to be accounted for in the detention calculations, prior section.

In addition, in pre-development conditions roughly half of the tributary 31 acres outlet to the NW and roughly half outlets to the NE. By diverting development and undisturbed tributary area to the NW, additional detention is needed to avoid exceeding pre-development rates. Some of the bypass areas that avoid retention on the east side will not need to be accounted for as those will be much less than pre-development rates. Proposed retention pond has a bottom of 656, a four (4) foot depth of water, with normal pool at 660. There is the full WQv in the normal pool, and there is also the full WQv to the point of 662.22. However, due to next highest orifice at 664, the actual WQv is at 663.22 (50k CF). The top of bank is 672, with spillway at 671, top of structure at 671, windows at 670. See Sheet C-107.

Retention Pond Design (continued)

Here are the allowable flows based solely on the existing conditions, pre-development rates, and critical. While detaining the flow from the upstream watershed is not inherent to project, the fact that we are diverting to another watershed forces us to greatly reduce stormwater for rerouted outlet of detention.

TR-20	1-Year	2-Year	5-Year	10-Year C	25-Year	50-Year	100-Year
On-site A	3.77 cfs	3.77 cfs	3.77 cfs	**3.77 cfs**	13.31 cfs	15.74 cfs	18.20 cfs
Off-site A	3.33 cfs	5.60 cfs	9.07 cfs	**12.03 cfs**	16.23 cfs	19.73 cfs	23.33 cfs
Total A	7.10 cfs	9.37 cfs	12.84 cfs	**15.80 cfs**	29.00 cfs	34.90 cfs	40.95 cfs

* these figures represent the allowed WESTERN only drainage plus the critical storm consideration.

Due to future critical storms and volumes being handled by future basin expansions, the following post and actual rates from retention as designed are what we have determined for the basin to allow for both critical storm goals being met and pre-development flows and allow for the bypasses unretained due to their separate watersheds. The following flow is to and thru the retention basin.

TR-20	1-Year	2-Year	5-Year	10-Year C	25-Year	50-Year	100-Year
Post Flow	36.59 cfs	48.00 cfs	64.12 cfs	77.00 cfs	94.08 cfs	108.65 cfs	123.19 cfs
Actual (v)	1.22 cfs	4.14 cfs	9.77 cfs	12.75 cfs	18.11 cfs	24.86 cfs	29.42 cfs
Off-site W	1.78 cfs	2.42 cfs	3.32 cfs	4.03 cfs	4.99 cfs	5.75 cfs	6.52 cfs
Total Flow	3.00 cfs	6.56 cfs	13.09 cfs	16.75 cfs	23.10 cfs	30.61 cfs	35.94 cfs
Elevation	663.94	664.37	665.02	665.63	666.35	666.88	667.45
Volume	66k CF	77k CF	94k CF	111k CF	134k CF	151k CF	170k CF

Peak Stormwater Pipe Design

For peak flow design of culverts and on-site storm systems, a proposed time of concentration has been selected, of 15 minutes per city minimums. Culverts have been designed for 10-year storm flow via Manning's Equation without surcharge. Also, 100-year HW has been considered in the pipes due to the concern with 100-year flood routing and the "bowl" nature of the site. The rational method peak flow modeling has shown that the proposed storm system has pipes sized for at least the 10-year flow but oversizes those pipes so that the 100-year flow passes through the system without surcharging rims.

In addition, due to the future off-site connections to MH-06 and the future tributary areas directly to the regional retention basin, the piping from MH-06 to the basin and the basin outlet have been sized to also convey the 100-year flow without surcharging for the ultimate development of the upstream acres. Additional expansion will be required to the retention basin and to allow volume for larger storms and detention to higher critical storms, but the infrastructure of installed pipes should be usable in future.

See attached peak flow table for on-site storm pipes.

	A (sf)	A (ac.)	C	A (sf)	A (ac)	Avg.C	Cum.A	Cum.C	10-yr I	100-yr I	**10-yr Q**	100-yr Q	D	Slope	**10-yr%**	Q Cap.	100y HW	100y FUT	V (fps)
RD1	16280	0.374	0.98	16,280	0.374	0.98	0.374	0.98	4.37	5.62	**1.60**	2.06	12"	0.50%	**64%**	2.5			
	0	0.000	0.40																
CB-05	18241	0.419	0.98	18,241	0.419	0.98	0.792	0.98	4.37	5.62	**3.39**	4.36	18"	0.50%	**46%**	7.4	675.14	676.35	
(+DS)	0	0.000	0.40																
CB-20	16445	0.378	0.98	16,445	0.378	0.98	1.170	0.98	4.37	5.62	**5.01**	6.44	18"	0.50%	**68%**	7.4	674.97	676.20	
	0	0.000	0.40								*1.62*	*2.08*							
CB-01	4746	0.109	0.98	4,746	0.109	0.98	1.279	0.98	4.37	5.62	**5.48**	7.04	18"	0.50%	**74%**	7.4	674.68	675.92	
	0	0.000	0.40								*0.47*	*0.60*							
CB-19	5728	0.131	0.98	5,728	0.131	0.98	1.410	0.98	4.37	5.62	**6.04**	7.77	24"	0.50%	**38%**	16.0	674.19	675.46	
	0	0.000	0.40								*0.56*	*0.72*							
CB-02	5728	0.131	0.98	5,728	0.131	0.98	1.542	0.98	4.37	5.62	**6.60**	8.49	24"	0.50%	**41%**	16.0	674.10	675.38	
	0	0.000	0.40								*0.56*	*0.72*							
CB-03	1253	0.029	0.98	1,253	0.029	0.98	1.571	0.98	4.37	5.62	**6.73**	8.65	24"	0.50%	**42%**	16.0	673.91	675.20	
	0	0.000	0.40								*0.12*	*0.16*							
MH-02	21426	0.492	0.98	21,426	0.492	0.98	2.063	0.98	4.37	5.62	**8.83**	11.36	24"	0.50%	**55%**	16.0	673.63	674.93	
(RD2)	0	0.000	0.40								*2.11*	*2.71*	*12"*	*1.00%*	*60%*	*3.5*			
CB-04	4941	0.113	0.98	9,123	0.209	0.82	2.272	0.97	4.37	5.62	**9.59**	12.33	24"	0.50%	**60%**	16.0	673.35	674.65	
	4182	0.096	0.64								*0.75*	*0.97*							
CB-06	25039	0.575	0.98	25,039	0.575	0.98	0.575	0.98	4.37	5.62	**2.46**	3.17	15"	0.50%	**55%**	4.5	676.70	677.81	
	0	0.000	0.40																
CB-07	10721	0.246	0.98	10,721	0.246	0.98	0.821	0.98	4.37	5.62	**3.52**	4.52	18"	0.50%	**48%**	7.4	676.58	677.70	
	0	0.000	0.40								*1.05*	*1.36*							
CB-08	9934	0.228	0.98	9,934	0.228	0.98	1.049	0.98	4.37	5.62	**4.49**	5.78	18"	0.50%	**61%**	7.4	676.48	677.59	
	0	0.000	0.40								*0.98*	*1.26*							
CB-09	16295	0.374	0.98	16,295	0.374	0.98	1.423	0.98	4.37	5.62	**6.09**	7.84	24"	0.50%	**38%**	16.0	676.23	677.38	
	0	0.000	0.40								*1.60*	*2.06*							
CB-14	28629	0.657	0.98	32,099	0.737	0.94	0.737	0.94	4.37	5.62	**3.04**	3.91	15"	2.00%	**34%**	9.0	676.37	677.51	
	3470	0.080	0.64																
MH-08	1	0.000	0.98	1	0.000	0.98	2.160	0.97	4.37	5.62	**9.13**	11.74	24"	0.50%	**57%**	16.0	676.08	677.24	
	0	0.000	0.40																
CB-10	24428	0.561	0.98	24,428	0.561	0.98	2.721	0.97	4.37	5.62	**11.53**	14.83	30"	0.50%	**40%**	29.0	675.72	676.91	
	0	0.000	0.40								*2.40*	*3.09*							
CB-15	24200	0.556	0.98	24,200	0.556	0.98	0.556	0.98	4.37	5.62	**2.38**	3.06	12"	2.00%	**48%**	5.0	675.95	677.12	
	0	0.000	0.40																
CB-11	18050	0.414	0.98	18,050	0.414	0.98	3.691	0.97	4.37	5.62	**15.69**	20.17	30"	0.50%	**54%**	29.0	675.52	676.72	
	0	0.000	0.40								*1.77*	*2.28*							
CB-16	18131	0.416	0.98	20,948	0.481	0.93	0.481	0.93	4.37	5.62	**1.96**	2.53	12"	2.00%	**39%**	5.0	675.74	676.93	
	2817	0.065	0.64																
CB-12	16341	0.375	0.98	16,341	0.375	0.98	4.547	0.97	4.37	5.62	**19.26**	24.77	30"	0.50%	**66%**	29.0	675.15	676.37	
	0	0.000	0.40								*1.61*	*2.07*							

	A (sf)	A (ac.)	C	A (sf)	A (ac)	Avg.C	Cum.A	Cum.C	10-yr I	100-yr I	**10-yr Q**	100-yr Q	D	Slope	**10-yr%**	Q Cap.	100y HW	100y FUT	V (fps)
CB-13	0	0.000	0.98	4,740	0.109	0.64	0.109	0.64	4.37	5.62	**0.30**	0.39	12"	2.00%	**6%**	5.0	673.97	675.26	
	4740	0.109	0.64								*0.30*	*0.39*							
CB-21	4919	0.113	0.98	4,919	0.113	0.98	0.222	0.81	4.37	5.62	**0.79**	1.01	12"	2.00%	**16%**	5.0	673.96	675.25	
	0	0.000	0.64								*0.48*	*0.62*							
MH-05	1970	0.045	0.98	5,921	0.136	0.75	4.904	0.96	4.37	5.62	**20.49**	26.35	30"	0.50%	**71%**	29.0	673.92	675.20	
	3951	0.091	0.64								*0.45*	*0.58*							
MH-03	2091	0.048	0.98	5,098	0.117	0.78	7.293	0.96	4.37	5.62	**30.48**	39.20	36"	0.50%	**65%**	47.0	673.04	674.35	
	3007	0.069	0.64								*0.40*	*0.51*							
HW-02	0	0.000	0.98	554,435	12.728	0.56	12.728	0.56	4.37	5.62	**31.15**	40.06	30"	1.40%	**65%**	48.0	678.41	676.76	
	554435	12.728	0.56																
MH-06	432115	9.920	0.98	554,519	12.730	0.90	12.730	0.90	4.37	5.62	**50.34**	64.74	36"	1.10%	**72%**	70.0	672.69	676.57	
(FUT.)	122404	2.810	0.64																
MH-04	1	0.000	0.98	1	0.000	0.98	20.022	0.70	4.37	5.62	**61.63**	79.26	48"	0.75%	**50%**	124.0	670.81		
	0	0.000	0.40																
MH-04	1	0.000	0.98	1	0.000	0.98	20.024	0.92	4.37	5.62	**80.82**	103.94	48"	0.75%	**65%**	124.0		672.13	
(FUT.)	0	0.000	0.40																
CB-17	24698	0.567	0.98	246,114	5.650	0.63	25.672	0.69	4.37	5.62	**77.16**	99.23	48"	0.75%	**62%**	124.0	664.70		
	221416	5.083	0.59																
CB-17	335902	7.711	0.98	390,820	8.972	0.91	28.996	0.92	4.37	5.62	**116.60**	149.95	48"	0.75%	**94%**	124.0		665.50	
(FUT.)	54918	1.261	0.50																



Routing Diagram for Monroe TR55
Prepared by Infrastructure & Development Eng, Printed 4/3/2026
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Summary for Subcatchment 1E: NW Pre1

Runoff = 3.56 cfs @ 12.17 hrs, Volume= 0.317 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 3.94 cfs @ 12.25 hrs, Volume= 0.422 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 33.73 cfs @ 12.09 hrs, Volume= 2.251 af, Depth= 1.05"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 6.70 cfs @ 12.25 hrs, Volume= 0.718 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 8.16 cfs @ 12.20 hrs, Volume= 0.780 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 15.16 cfs @ 12.23 hrs, Volume= 1.549 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 1-Year Rainfall=2.34"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 1.05" for 1-Year event
Inflow = 33.73 cfs @ 12.09 hrs, Volume= 2.251 af
Outflow = 1.18 cfs @ 15.77 hrs, Volume= 2.246 af, Atten= 97%, Lag= 221.1 min
Primary = 1.18 cfs @ 15.77 hrs, Volume= 2.246 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 663.69' @ 15.77 hrs Surf.Area= 23,158 sf Storage= 96,623 cf (60,226 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 1,084.2 min calculated for 1.410 af (63% of inflow)
Center-of-Mass det. time= 656.0 min (1,503.0 - 847.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.18 cfs @ 15.77 hrs HW=663.69' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 1.18 cfs of 74.28 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Controls 0.00 cfs)
  ├─**5=Orifice/Grate** (Controls 0.00 cfs)
  └─**6=Orifice/Grate** (Orifice Controls 1.18 cfs @ 8.98 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 5.54 cfs @ 12.16 hrs, Volume= 0.466 af, Depth= 0.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 6.28 cfs @ 12.23 hrs, Volume= 0.628 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 45.77 cfs @ 12.08 hrs, Volume= 3.041 af, Depth= 1.42"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 10.69 cfs @ 12.23 hrs, Volume= 1.068 af, Depth= 0.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 12.71 cfs @ 12.20 hrs, Volume= 1.148 af, Depth= 0.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 23.70 cfs @ 12.22 hrs, Volume= 2.281 af, Depth= 0.88"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 2-Year Rainfall=2.80"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 1.42" for 2-Year event
Inflow = 45.77 cfs @ 12.08 hrs, Volume= 3.041 af
Outflow = 3.24 cfs @ 13.33 hrs, Volume= 3.036 af, Atten= 93%, Lag= 75.0 min
Primary = 3.24 cfs @ 13.33 hrs, Volume= 3.036 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.29' @ 13.33 hrs Surf.Area= 25,507 sf Storage= 111,204 cf (74,807 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 960.8 min calculated for 2.200 af (72% of inflow)
Center-of-Mass det. time= 623.8 min (1,462.1 - 838.3)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=3.24 cfs @ 13.33 hrs HW=664.29' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 3.24 cfs of 90.36 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Controls 0.00 cfs)
  ├─**5=Orifice/Grate** (Orifice Controls 1.97 cfs @ 1.72 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.27 cfs @ 9.72 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 8.50 cfs @ 12.15 hrs, Volume= 0.691 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 9.86 cfs @ 12.22 hrs, Volume= 0.939 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 62.65 cfs @ 12.08 hrs, Volume= 4.165 af, Depth= 1.95"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 16.79 cfs @ 12.22 hrs, Volume= 1.598 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 19.54 cfs @ 12.18 hrs, Volume= 1.700 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 36.46 cfs @ 12.22 hrs, Volume= 3.378 af, Depth= 1.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 5-Year Rainfall=3.42"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 1.95" for 5-Year event
Inflow = 62.65 cfs @ 12.08 hrs, Volume= 4.165 af
Outflow = 9.11 cfs @ 12.60 hrs, Volume= 4.159 af, Atten= 85%, Lag= 31.4 min
Primary = 9.11 cfs @ 12.60 hrs, Volume= 4.159 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.91' @ 12.60 hrs Surf.Area= 27,295 sf Storage= 127,544 cf (91,146 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 724.6 min calculated for 3.323 af (80% of inflow)
Center-of-Mass det. time= 497.9 min (1,327.3 - 829.3)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.11 cfs @ 12.60 hrs HW=664.91' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 9.11 cfs of 103.14 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Controls 0.00 cfs)
  ├─**5=Orifice/Grate** (Orifice Controls 7.75 cfs @ 3.87 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.37 cfs @ 10.43 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 10.95 cfs @ 12.15 hrs, Volume= 0.878 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 12.85 cfs @ 12.22 hrs, Volume= 1.201 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 76.02 cfs @ 12.08 hrs, Volume= 5.067 af, Depth= 2.37"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 21.87 cfs @ 12.22 hrs, Volume= 2.043 af, Depth= 1.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 25.22 cfs @ 12.18 hrs, Volume= 2.161 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 47.04 cfs @ 12.22 hrs, Volume= 4.294 af, Depth= 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 2.37" for 10-Year event
Inflow = 76.02 cfs @ 12.08 hrs, Volume= 5.067 af
Outflow = 12.34 cfs @ 12.55 hrs, Volume= 5.061 af, Atten= 84%, Lag= 28.3 min
Primary = 12.34 cfs @ 12.55 hrs, Volume= 5.061 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 665.53' @ 12.55 hrs Surf.Area= 29,133 sf Storage= 145,183 cf (108,786 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 609.4 min calculated for 4.225 af (83% of inflow)
Center-of-Mass det. time= 433.9 min (1,257.7 - 823.7)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=12.34 cfs @ 12.55 hrs HW=665.53' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 12.34 cfs of 112.46 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Controls 0.00 cfs)
  ├─**5=Orifice/Grate** (Orifice Controls 10.88 cfs @ 5.44 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.45 cfs @ 11.11 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 14.39 cfs @ 12.15 hrs, Volume= 1.142 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 17.04 cfs @ 12.22 hrs, Volume= 1.570 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 94.08 cfs @ 12.08 hrs, Volume= 6.301 af, Depth= 2.95"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 29.00 cfs @ 12.22 hrs, Volume= 2.672 af, Depth= 2.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 33.16 cfs @ 12.18 hrs, Volume= 2.810 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 61.84 cfs @ 12.22 hrs, Volume= 5.585 af, Depth= 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 25-Year Rainfall=4.54"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 2.95" for 25-Year event
Inflow = 94.08 cfs @ 12.08 hrs, Volume= 6.301 af
Outflow = 18.11 cfs @ 12.48 hrs, Volume= 6.295 af, Atten= 81%, Lag= 24.2 min
Primary = 18.11 cfs @ 12.48 hrs, Volume= 6.295 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 666.35' @ 12.48 hrs Surf.Area= 31,595 sf Storage= 169,937 cf (133,540 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 505.9 min calculated for 5.460 af (87% of inflow)
Center-of-Mass det. time= 371.7 min (1,189.3 - 817.5)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=18.11 cfs @ 12.48 hrs HW=666.35' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 18.11 cfs of 126.14 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Orifice Controls 2.62 cfs @ 1.89 fps)
  ├─**5=Orifice/Grate** (Orifice Controls 13.93 cfs @ 6.97 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.56 cfs @ 11.93 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 17.22 cfs @ 12.15 hrs, Volume= 1.361 af, Depth= 2.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 20.51 cfs @ 12.22 hrs, Volume= 1.878 af, Depth= 2.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 108.65 cfs @ 12.07 hrs, Volume= 7.304 af, Depth= 3.41"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 34.90 cfs @ 12.22 hrs, Volume= 3.195 af, Depth= 2.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 39.74 cfs @ 12.17 hrs, Volume= 3.350 af, Depth= 2.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 74.04 cfs @ 12.22 hrs, Volume= 6.657 af, Depth= 2.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 50-Year Rainfall=5.05"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 3.41" for 50-Year event
Inflow = 108.65 cfs @ 12.07 hrs, Volume= 7.304 af
Outflow = 24.86 cfs @ 12.42 hrs, Volume= 7.298 af, Atten= 77%, Lag= 20.7 min
Primary = 24.86 cfs @ 12.42 hrs, Volume= 7.298 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 666.88' @ 12.42 hrs Surf.Area= 33,256 sf Storage= 187,363 cf (150,965 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 444.7 min calculated for 6.461 af (88% of inflow)
Center-of-Mass det. time= 332.6 min (1,146.0 - 813.3)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=24.86 cfs @ 12.42 hrs HW=666.88' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 24.86 cfs of 133.71 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Orifice Controls 7.61 cfs @ 3.81 fps)
  ├─**5=Orifice/Grate** (Orifice Controls 15.62 cfs @ 7.81 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.63 cfs @ 12.44 fps)

Summary for Subcatchment 1E: NW Pre1

Runoff = 20.13 cfs @ 12.14 hrs, Volume= 1.587 af, Depth= 3.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
3.310	79	Pasture/grassland/range, Fair, HSG C
3.030	73	Woods, Fair, HSG C
6.340	76	Weighted Average
6.340		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,400	0.0457	1.06		**Lag/CN Method,**

Summary for Subcatchment 2E: NW Pre2

Runoff = 24.06 cfs @ 12.22 hrs, Volume= 2.195 af, Depth= 2.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
2.300	79	Pasture/grassland/range, Fair, HSG C
6.750	73	Woods, Fair, HSG C
9.050	75	Weighted Average
9.050		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 2T: Reten Post

Runoff = 123.19 cfs @ 12.07 hrs, Volume= 8.319 af, Depth= 3.89"
Routed to Pond 17T : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
7.400	98	Paved parking, HSG D
3.600	84	50-75% Grass cover, Fair, HSG D
14.670	79	50-75% Grass cover, Fair, HSG C
25.670	85	Weighted Average
18.270		71.17% Pervious Area
7.400		28.83% Impervious Area

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

Summary for Subcatchment 3E: NW Pre

Runoff = 40.95 cfs @ 12.22 hrs, Volume= 3.735 af, Depth= 2.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
5.620	79	Pasture/grassland/range, Fair, HSG C
9.780	73	Woods, Fair, HSG C
15.400	75	Weighted Average
15.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	1,714	0.0420	1.03		**Lag/CN Method,**

Summary for Subcatchment 4E: NE Pre

Runoff = 46.44 cfs @ 12.17 hrs, Volume= 3.905 af, Depth= 3.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
8.280	79	Pasture/grassland/range, Fair, HSG C
7.320	73	Woods, Fair, HSG C
15.600	76	Weighted Average
15.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.4	1,667	0.0488	1.14		**Lag/CN Method,**

Summary for Subcatchment 5E: Total Pre

Runoff = 86.46 cfs @ 12.22 hrs, Volume= 7.760 af, Depth= 3.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 100-Year Rainfall=5.56"

Area (ac)	CN	Description
17.000	73	Woods, Fair, HSG C
14.000	79	Pasture/grassland/range, Fair, HSG C
31.000	76	Weighted Average
31.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,714	0.0420	1.06		**Lag/CN Method,**

Summary for Pond 17T: CB-17

Inflow Area = 25.670 ac, 28.83% Impervious, Inflow Depth = 3.89" for 100-Year event
Inflow = 123.19 cfs @ 12.07 hrs, Volume= 8.319 af
Outflow = 29.42 cfs @ 12.41 hrs, Volume= 8.313 af, Atten= 76%, Lag= 19.9 min
Primary = 29.42 cfs @ 12.41 hrs, Volume= 8.313 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 667.45' @ 12.41 hrs Surf.Area= 35,022 sf Storage= 206,586 cf (170,189 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

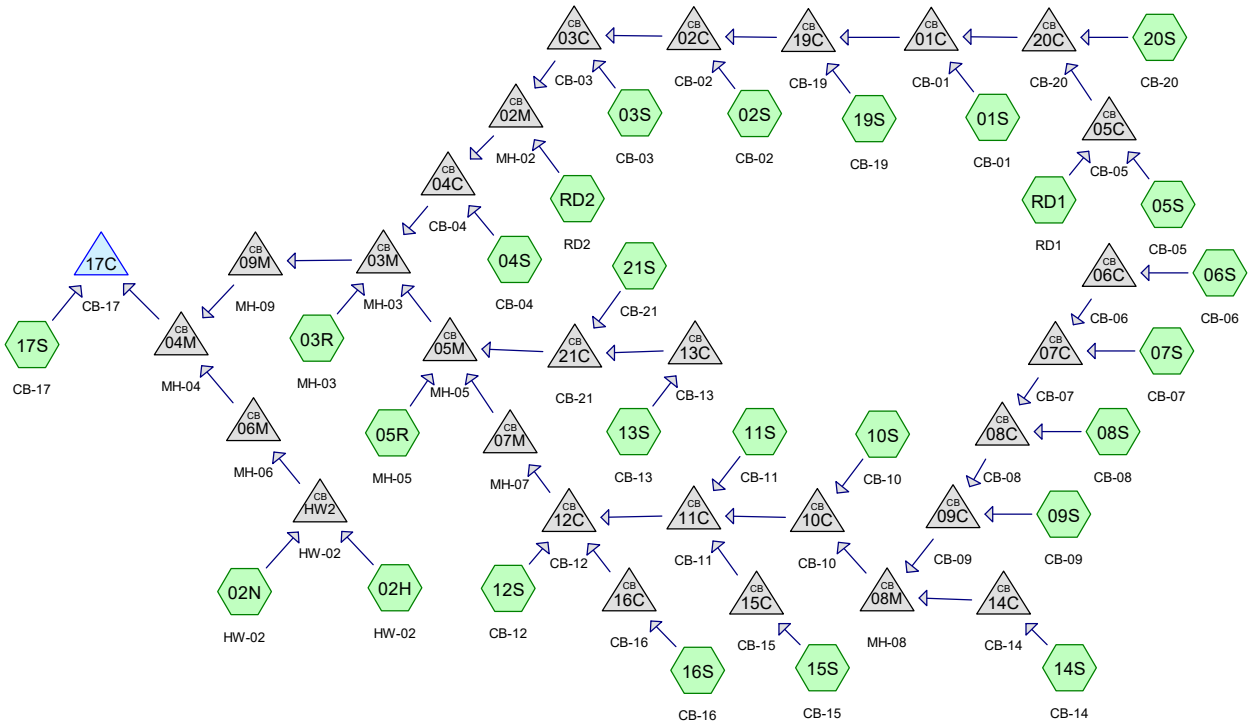
Plug-Flow detention time= 399.6 min calculated for 7.478 af (90% of inflow)
Center-of-Mass det. time= 302.7 min (1,112.3 - 809.6)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=29.42 cfs @ 12.41 hrs HW=667.45' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 29.42 cfs of 141.21 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Orifice Controls 10.52 cfs @ 5.26 fps)
  ├─**5=Orifice/Grate** (Orifice Controls 17.21 cfs @ 8.61 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.70 cfs @ 12.95 fps)



Subcat Reach Pond Link

Routing Diagram for Monroe TR55
Prepared by Infrastructure & Development Eng, Printed 4/3/2026
HydroCAD® 10.20-2h s/n 12851 © 2024 HydroCAD Software Solutions LLC

Summary for Subcatchment 01S: CB-01

Runoff = 0.60 cfs @ 11.97 hrs, Volume= 0.033 af, Depth= 3.67"
Routed to Pond 01C : CB-01

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.109	98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 4.27 cfs @ 11.97 hrs, Volume= 0.202 af, Depth= 2.28"
Routed to Pond HW2 : HW-02

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
1.060	84	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 28.46 cfs @ 12.08 hrs, Volume= 1.831 af, Depth= 1.88"
Routed to Pond HW2 : HW-02

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
11.670	79	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.72 cfs @ 11.97 hrs, Volume= 0.040 af, Depth= 3.67"
Routed to Pond 02C : CB-02

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.131	98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.56 cfs @ 11.97 hrs, Volume= 0.028 af, Depth= 2.82"
Routed to Pond 03M : MH-03

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

	Area (ac)	CN	Description
*	0.117	90	Paved parking, HSG D
	0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.16 cfs @ 11.97 hrs, Volume= 0.009 af, Depth= 3.67"
Routed to Pond 03C : CB-03

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.029	98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 1.05 cfs @ 11.97 hrs, Volume= 0.053 af, Depth= 3.02"
Routed to Pond 04C : CB-04

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

	Area (ac)	CN	Description
*	0.209	92	Paved parking, HSG D
	0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.64 cfs @ 11.97 hrs, Volume= 0.031 af, Depth= 2.73"
Routed to Pond 05M : MH-05

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

	Area (ac)	CN	Description
*	0.136	89	Paved parking, HSG D
	0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.32 cfs @ 11.97 hrs, Volume= 0.128 af, Depth= 3.67"
Routed to Pond 05C : CB-05

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.419	98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 3.18 cfs @ 11.97 hrs, Volume= 0.176 af, Depth= 3.67"
Routed to Pond 06C : CB-06

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.575	98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.36 cfs @ 11.97 hrs, Volume= 0.075 af, Depth= 3.67"
Routed to Pond 07C : CB-07

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.246	98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.26 cfs @ 11.97 hrs, Volume= 0.070 af, Depth= 3.67"
Routed to Pond 08C : CB-08

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.228	98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 2.07 cfs @ 11.97 hrs, Volume= 0.114 af, Depth= 3.67"
Routed to Pond 09C : CB-09

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.374	98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 3.10 cfs @ 11.97 hrs, Volume= 0.171 af, Depth= 3.67"
Routed to Pond 10C : CB-10

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.561	98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.29 cfs @ 11.97 hrs, Volume= 0.126 af, Depth= 3.67"
Routed to Pond 11C : CB-11

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.414	98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 2.08 cfs @ 11.97 hrs, Volume= 0.115 af, Depth= 3.67"
Routed to Pond 12C : CB-12

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.375	98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.44 cfs @ 11.97 hrs, Volume= 0.021 af, Depth= 2.28"
Routed to Pond 13C : CB-13

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.109	84	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.99 cfs @ 11.97 hrs, Volume= 0.211 af, Depth= 3.44"
Routed to Pond 14C : CB-14

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

	Area (ac)	CN	Description
*	0.737	96	Paved parking, HSG D
	0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 3.08 cfs @ 11.97 hrs, Volume= 0.170 af, Depth= 3.67"
Routed to Pond 15C : CB-15

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.556	98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.60 cfs @ 11.97 hrs, Volume= 0.138 af, Depth= 3.44"
Routed to Pond 16C : CB-16

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

	Area (ac)	CN	Description
*	0.481	96	Paved parking, HSG D
	0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 16.10 cfs @ 12.07 hrs, Volume= 1.036 af, Depth= 2.20"
Routed to Pond 17C : CB-17

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
2.045	84	50-75% Grass cover, Fair, HSG D
3.040	79	50-75% Grass cover, Fair, HSG C
0.567	98	Water Surface, HSG D
5.652	83	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.72 cfs @ 11.97 hrs, Volume= 0.040 af, Depth= 3.67"
Routed to Pond 19C : CB-19

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.131	98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 2.09 cfs @ 11.97 hrs, Volume= 0.115 af, Depth= 3.67"
Routed to Pond 20C : CB-20

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.378	98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.63 cfs @ 11.97 hrs, Volume= 0.035 af, Depth= 3.67"
Routed to Pond 21C : CB-21

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.113	98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 2.07 cfs @ 11.97 hrs, Volume= 0.114 af, Depth= 3.67"
Routed to Pond 05C : CB-05

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.374	98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.72 cfs @ 11.97 hrs, Volume= 0.150 af, Depth= 3.67"
Routed to Pond 02M : MH-02

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type II 24-hr 10-Year Rainfall=3.90"

Area (ac)	CN	Description
0.492	98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 7.08 cfs @ 11.97 hrs, Volume= 0.391 af
Outflow = 7.08 cfs @ 11.97 hrs, Volume= 0.391 af, Atten= 0%, Lag= 0.0 min
Primary = 7.08 cfs @ 11.97 hrs, Volume= 0.391 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.27' @ 12.02 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.60 cfs @ 11.97 hrs HW=673.30' TW=672.76' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 5.60 cfs @ 3.17 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 8.53 cfs @ 11.97 hrs, Volume= 0.471 af
Outflow = 8.53 cfs @ 11.97 hrs, Volume= 0.471 af, Atten= 0%, Lag= 0.0 min
Primary = 8.53 cfs @ 11.97 hrs, Volume= 0.471 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.66' @ 12.01 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=672.92' TW=672.93' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 11.42 cfs @ 11.97 hrs, Volume= 0.630 af
Outflow = 11.42 cfs @ 11.97 hrs, Volume= 0.630 af, Atten= 0%, Lag= 0.0 min
Primary = 11.42 cfs @ 11.97 hrs, Volume= 0.630 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.15' @ 11.99 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.59 cfs @ 11.97 hrs HW=672.80' TW=672.63' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 7.59 cfs @ 2.42 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 8.69 cfs @ 11.97 hrs, Volume= 0.480 af
Outflow = 8.69 cfs @ 11.97 hrs, Volume= 0.480 af, Atten= 0%, Lag= 0.0 min
Primary = 8.69 cfs @ 11.97 hrs, Volume= 0.480 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.45' @ 12.00 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.08 cfs @ 11.97 hrs HW=672.93' TW=672.80' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 5.08 cfs @ 1.62 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 3.56" for 10-Year event
Inflow = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af
Outflow = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af, Atten= 0%, Lag= 0.0 min
Primary = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.49' @ 11.98 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round Culvert** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=38.31 cfs @ 11.97 hrs HW=672.41' TW=671.15' (Dynamic Tailwater)
1=Culvert (Inlet Controls 38.31 cfs @ 5.42 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 3.61" for 10-Year event
Inflow = 12.47 cfs @ 11.97 hrs, Volume= 0.683 af
Outflow = 12.47 cfs @ 11.97 hrs, Volume= 0.683 af, Atten= 0%, Lag= 0.0 min
Primary = 12.47 cfs @ 11.97 hrs, Volume= 0.683 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.84' @ 11.99 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=9.74 cfs @ 11.97 hrs HW=672.64' TW=672.41' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Outlet Controls 9.74 cfs @ 3.10 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 2.51" for 10-Year event
Inflow = 64.25 cfs @ 11.98 hrs, Volume= 4.195 af
Outflow = 64.25 cfs @ 11.98 hrs, Volume= 4.195 af, Atten= 0%, Lag= 0.0 min
Primary = 64.25 cfs @ 11.98 hrs, Volume= 4.195 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.19' @ 11.98 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=64.16 cfs @ 11.98 hrs HW=670.19' TW=663.96' (Dynamic Tailwater)
↑—**1=RCP_Round 48"** (Barrel Controls 64.16 cfs @ 6.89 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 4.39 cfs @ 11.97 hrs, Volume= 0.242 af
Outflow = 4.39 cfs @ 11.97 hrs, Volume= 0.242 af, Atten= 0%, Lag= 0.0 min
Primary = 4.39 cfs @ 11.97 hrs, Volume= 0.242 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.79' @ 12.03 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=673.53' TW=673.54' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 3.55" for 10-Year event
Inflow = 26.71 cfs @ 11.97 hrs, Volume= 1.452 af
Outflow = 26.71 cfs @ 11.97 hrs, Volume= 1.452 af, Atten= 0%, Lag= 0.0 min
Primary = 26.71 cfs @ 11.97 hrs, Volume= 1.452 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.47' @ 11.98 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=24.78 cfs @ 11.97 hrs HW=673.31' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 24.78 cfs @ 5.05 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 3.18 cfs @ 11.97 hrs, Volume= 0.176 af
Outflow = 3.18 cfs @ 11.97 hrs, Volume= 0.176 af, Atten= 0%, Lag= 0.0 min
Primary = 3.18 cfs @ 11.97 hrs, Volume= 0.176 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.53' @ 12.04 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.93 cfs @ 11.97 hrs HW=674.32' TW=674.30' (Dynamic Tailwater)
1=RCP_Round 15" (Inlet Controls 0.93 cfs @ 0.76 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 1.92" for 10-Year event
Inflow = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af
Outflow = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af, Atten= 0%, Lag= 0.0 min
Primary = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.96' @ 12.03 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.16 cfs @ 12.06 hrs HW=671.91' TW=669.65' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 31.16 cfs @ 6.78 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 4.54 cfs @ 11.97 hrs, Volume= 0.251 af
Outflow = 4.54 cfs @ 11.97 hrs, Volume= 0.251 af, Atten= 0%, Lag= 0.0 min
Primary = 4.54 cfs @ 11.97 hrs, Volume= 0.251 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.43' @ 12.04 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=674.30' TW=674.39' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 3.61" for 10-Year event
Inflow = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af
Outflow = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af, Atten= 0%, Lag= 0.0 min
Primary = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.19' @ 11.99 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=21.37 cfs @ 11.97 hrs HW=673.89' TW=673.31' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 21.37 cfs @ 4.35 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 5.80 cfs @ 11.97 hrs, Volume= 0.320 af
Outflow = 5.80 cfs @ 11.97 hrs, Volume= 0.320 af, Atten= 0%, Lag= 0.0 min
Primary = 5.80 cfs @ 11.97 hrs, Volume= 0.320 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.31' @ 12.03 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=674.39' TW=674.41' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 3.59" for 10-Year event
Inflow = 11.86 cfs @ 11.97 hrs, Volume= 0.646 af
Outflow = 11.86 cfs @ 11.97 hrs, Volume= 0.646 af, Atten= 0%, Lag= 0.0 min
Primary = 11.86 cfs @ 11.97 hrs, Volume= 0.646 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.91' @ 12.01 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.22 cfs @ 11.97 hrs HW=674.62' TW=674.45' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 6.22 cfs @ 1.98 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 7.87 cfs @ 11.97 hrs, Volume= 0.435 af
Outflow = 7.87 cfs @ 11.97 hrs, Volume= 0.435 af, Atten= 0%, Lag= 0.0 min
Primary = 7.87 cfs @ 11.97 hrs, Volume= 0.435 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.07' @ 12.02 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=674.41' TW=674.61' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 3.56" for 10-Year event
Inflow = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af
Outflow = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af, Atten= 0%, Lag= 0.0 min
Primary = 39.74 cfs @ 11.97 hrs, Volume= 2.163 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.20' @ 11.98 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round Culvert** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=38.49 cfs @ 11.97 hrs HW=671.15' TW=670.14' (Dynamic Tailwater)
1=Culvert (Outlet Controls 38.49 cfs @ 5.52 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 3.60" for 10-Year event
Inflow = 14.97 cfs @ 11.97 hrs, Volume= 0.817 af
Outflow = 14.97 cfs @ 11.97 hrs, Volume= 0.817 af, Atten= 0%, Lag= 0.0 min
Primary = 14.97 cfs @ 11.97 hrs, Volume= 0.817 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.51' @ 12.01 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=674.45' TW=674.56' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 3.62" for 10-Year event
Inflow = 20.33 cfs @ 11.97 hrs, Volume= 1.114 af
Outflow = 20.33 cfs @ 11.97 hrs, Volume= 1.114 af, Atten= 0%, Lag= 0.0 min
Primary = 20.33 cfs @ 11.97 hrs, Volume= 1.114 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.29' @ 12.00 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.70 cfs @ 11.97 hrs HW=674.55' TW=674.38' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.70 cfs @ 2.38 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 3.61" for 10-Year event
Inflow = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af
Outflow = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af, Atten= 0%, Lag= 0.0 min
Primary = 25.01 cfs @ 11.97 hrs, Volume= 1.366 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.86' @ 11.99 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=19.85 cfs @ 11.97 hrs HW=674.38' TW=673.89' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 19.85 cfs @ 4.04 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 2.28" for 10-Year event
Inflow = 0.44 cfs @ 11.97 hrs, Volume= 0.021 af
Outflow = 0.44 cfs @ 11.97 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 11.97 hrs, Volume= 0.021 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.54' @ 12.00 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=673.04' TW=673.27' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 3.44" for 10-Year event
Inflow = 3.99 cfs @ 11.97 hrs, Volume= 0.211 af
Outflow = 3.99 cfs @ 11.97 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min
Primary = 3.99 cfs @ 11.97 hrs, Volume= 0.211 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.25' @ 12.02 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.48 cfs @ 11.97 hrs HW=674.71' TW=674.64' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.48 cfs @ 1.20 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 3.08 cfs @ 11.97 hrs, Volume= 0.170 af
Outflow = 3.08 cfs @ 11.97 hrs, Volume= 0.170 af, Atten= 0%, Lag= 0.0 min
Primary = 3.08 cfs @ 11.97 hrs, Volume= 0.170 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.78' @ 12.01 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.90 cfs @ 11.97 hrs HW=674.80' TW=674.55' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.90 cfs @ 2.42 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 3.44" for 10-Year event
Inflow = 2.60 cfs @ 11.97 hrs, Volume= 0.138 af
Outflow = 2.60 cfs @ 11.97 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 2.60 cfs @ 11.97 hrs, Volume= 0.138 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.58' @ 12.00 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=2.01 cfs @ 11.97 hrs HW=674.92' TW=674.39' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 2.01 cfs @ 2.56 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 2.44" for 10-Year event
Inflow = 76.99 cfs @ 11.99 hrs, Volume= 5.231 af
Outflow = 12.75 cfs @ 12.45 hrs, Volume= 5.225 af, Atten= 83%, Lag= 27.4 min
Primary = 12.75 cfs @ 12.45 hrs, Volume= 5.225 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 665.63' @ 12.45 hrs Surf.Area= 29,418 sf Storage= 147,980 cf (111,583 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 602.6 min calculated for 4.390 af (84% of inflow)
Center-of-Mass det. time= 428.2 min (1,230.1 - 801.9)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	666.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	664.00'	**48.00" W x 6.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads

#6	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=12.75 cfs @ 12.45 hrs HW=665.63' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 12.75 cfs of 114.58 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Controls 0.00 cfs)
  ├─**5=Orifice/Grate** (Orifice Controls 11.28 cfs @ 5.64 fps)
  └─**6=Orifice/Grate** (Orifice Controls 1.47 cfs @ 11.21 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 7.81 cfs @ 11.97 hrs, Volume= 0.431 af
Outflow = 7.81 cfs @ 11.97 hrs, Volume= 0.431 af, Atten= 0%, Lag= 0.0 min
Primary = 7.81 cfs @ 11.97 hrs, Volume= 0.431 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.75' @ 12.02 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=672.76' TW=672.92' (Dynamic Tailwater)
└─**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 3.67" for 10-Year event
Inflow = 6.48 cfs @ 11.97 hrs, Volume= 0.358 af
Outflow = 6.48 cfs @ 11.97 hrs, Volume= 0.358 af, Atten= 0%, Lag= 0.0 min
Primary = 6.48 cfs @ 11.97 hrs, Volume= 0.358 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.60' @ 12.02 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.14 cfs @ 11.97 hrs HW=673.54' TW=673.30' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 4.14 cfs @ 2.34 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 2.99" for 10-Year event
Inflow = 1.06 cfs @ 11.97 hrs, Volume= 0.055 af
Outflow = 1.06 cfs @ 11.97 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 1.06 cfs @ 11.97 hrs, Volume= 0.055 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.52' @ 11.99 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 11.97 hrs HW=673.21' TW=673.35' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

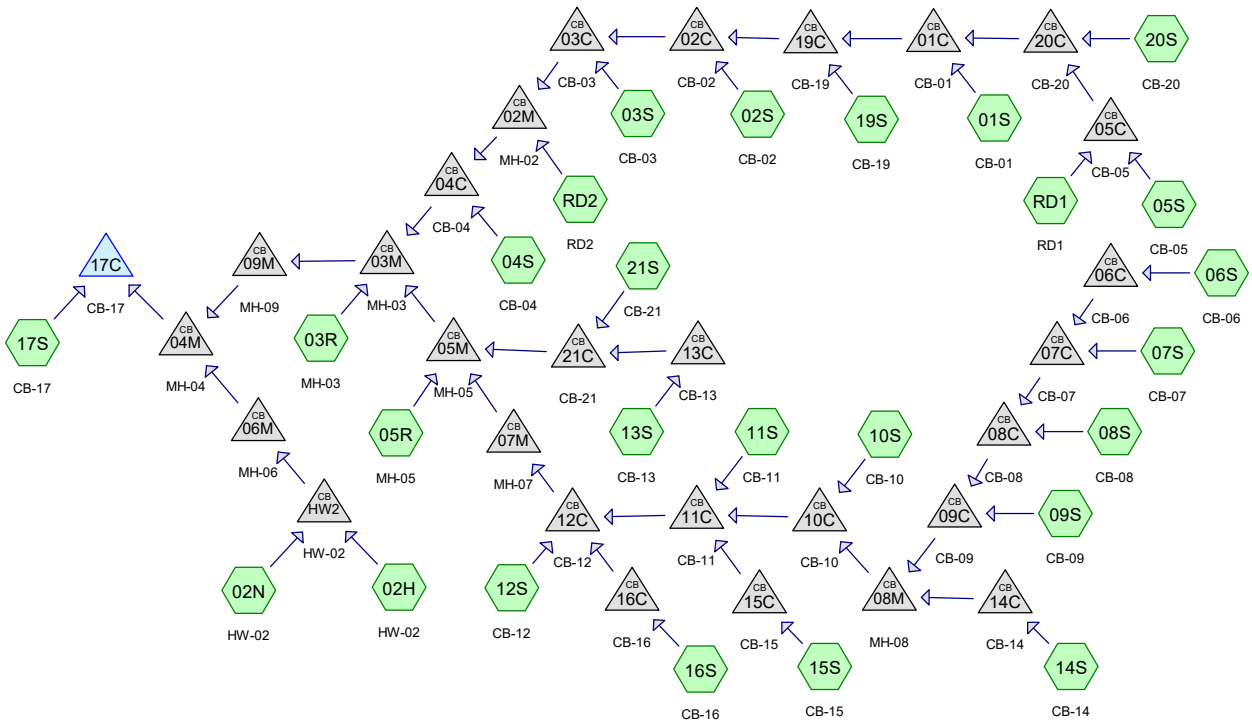
Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 1.92" for 10-Year event
Inflow = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af
Outflow = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af, Atten= 0%, Lag= 0.0 min
Primary = 30.39 cfs @ 12.06 hrs, Volume= 2.033 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.79' @ 12.06 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=30.37 cfs @ 12.06 hrs HW=677.79' TW=671.91' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 30.37 cfs @ 8.54 fps)



Subcat Reach Pond Link

Routing Diagram for Monroe Rational
Prepared by Infrastructure & Development Eng, Printed 4/3/2026
HydroCAD® 10.20-2h s/n 12851 © 2024 HydroCAD Software Solutions LLC

Summary for Subcatchment 01S: CB-01

Runoff = 0.30 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.69"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 1.93 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 0.45"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 18.25 cfs @ 0.25 hrs, Volume= 0.377 af, Depth= 0.39"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.69"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.26 cfs @ 0.25 hrs, Volume= 0.005 af, Depth= 0.55"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.08 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.69"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.49 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 0.58"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.29 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.53"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.17 cfs @ 0.25 hrs, Volume= 0.024 af, Depth= 0.69"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 0.69"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.69 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 0.69"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.64 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 0.69"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 1.56 cfs @ 0.25 hrs, Volume= 0.032 af, Depth= 0.69"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.15 cfs @ 0.25 hrs, Volume= 0.024 af, Depth= 0.69"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af, Depth= 0.45"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 0.66"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af, Depth= 0.69"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.66"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 10.13 cfs @ 0.25 hrs, Volume= 0.209 af, Depth= 0.44"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.69"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.05 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.69"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 0.69"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af
Outflow = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
Primary = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.99' @ 0.27 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.38 cfs @ 0.25 hrs HW=670.98' TW=670.51' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 3.38 cfs @ 3.10 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af
Outflow = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.55' @ 0.29 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.67 cfs @ 0.25 hrs HW=670.45' TW=670.25' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.67 cfs @ 2.30 fps)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af
Outflow = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
Primary = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.28' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.61 cfs @ 0.25 hrs HW=670.14' TW=670.12' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.61 cfs @ 0.91 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af
Outflow = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
Primary = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.40' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.33 cfs @ 0.25 hrs HW=670.25' TW=670.14' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.33 cfs @ 1.57 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Outflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af, Atten= 0%, Lag= 0.0 min
Primary = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.13' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=17.96 cfs @ 0.25 hrs HW=670.10' TW=669.78' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 17.96 cfs @ 3.56 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af
Outflow = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min
Primary = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.21' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.58 cfs @ 0.25 hrs HW=670.12' TW=670.10' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Outlet Controls 2.58 cfs @ 0.84 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.50" for 1-Year event
Inflow = 40.00 cfs @ 0.25 hrs, Volume= 0.826 af
Outflow = 40.00 cfs @ 0.25 hrs, Volume= 0.826 af, Atten= 0%, Lag= 0.0 min
Primary = 40.00 cfs @ 0.25 hrs, Volume= 0.826 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 669.23' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=40.00 cfs @ 0.25 hrs HW=669.23' TW=661.64' (Dynamic Tailwater)
↑—**1=RCP_Round 48"** (Barrel Controls 40.00 cfs @ 6.13 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.47' @ 0.26 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.09 cfs @ 0.25 hrs HW=671.46' TW=671.13' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.09 cfs @ 2.38 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af
Outflow = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af, Atten= 0%, Lag= 0.0 min
Primary = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.46' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.98 cfs @ 0.25 hrs HW=670.42' TW=670.10' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.98 cfs @ 3.20 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af
Outflow = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.60' @ 0.28 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.36 cfs @ 0.25 hrs HW=672.57' TW=672.46' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.36 cfs @ 1.68 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-Year event
Inflow = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af
Outflow = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min
Primary = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.30' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=19.86 cfs @ 0.25 hrs HW=671.30' TW=669.23' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 19.86 cfs @ 6.12 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af
Outflow = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.50' @ 0.28 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.91 cfs @ 0.25 hrs HW=672.46' TW=672.35' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 1.91 cfs @ 1.73 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Outflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
Primary = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.79' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.28 cfs @ 0.25 hrs HW=670.76' TW=670.42' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.28 cfs @ 3.43 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af
Outflow = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.39' @ 0.27 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.54 cfs @ 0.25 hrs HW=672.35' TW=672.21' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.54 cfs @ 2.03 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af
Outflow = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.11' @ 0.26 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.55 cfs @ 0.25 hrs HW=672.10' TW=671.72' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 5.55 cfs @ 3.05 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Outflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
Primary = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.24' @ 0.27 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.30 cfs @ 0.25 hrs HW=672.21' TW=672.10' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.30 cfs @ 1.93 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Outflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af, Atten= 0%, Lag= 0.0 min
Primary = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 669.80' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=18.72 cfs @ 0.25 hrs HW=669.78' TW=669.23' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 18.72 cfs @ 4.08 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af
Outflow = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min
Primary = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.75' @ 0.27 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.77 cfs @ 0.25 hrs HW=671.72' TW=671.44' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 6.77 cfs @ 2.88 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af
Outflow = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min
Primary = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.47' @ 0.26 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=9.24 cfs @ 0.25 hrs HW=671.44' TW=671.13' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 9.24 cfs @ 3.25 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Outflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
Primary = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.16' @ 0.26 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.44 cfs @ 0.25 hrs HW=671.13' TW=670.76' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 11.44 cfs @ 3.63 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.45" for 1-Year event
Inflow = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af
Outflow = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.07' @ 0.25 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 0.25 hrs HW=671.07' TW=670.62' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Inlet Controls 0.20 cfs @ 1.58 fps)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.66" for 1-Year event
Inflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Outflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.93' @ 0.25 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.91 cfs @ 0.25 hrs HW=672.92' TW=672.10' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.91 cfs @ 3.81 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af
Outflow = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.61' @ 0.27 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.23 cfs @ 0.25 hrs HW=671.55' TW=671.44' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.23 cfs @ 1.66 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.66" for 1-Year event
Inflow = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af
Outflow = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.25 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.22 cfs @ 0.25 hrs HW=672.00' TW=671.13' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.22 cfs @ 3.27 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.48" for 1-Year event
Inflow = 50.12 cfs @ 0.25 hrs, Volume= 1.036 af
Outflow = 1.04 cfs @ 0.49 hrs, Volume= 1.033 af, Atten= 98%, Lag= 14.7 min
Primary = 1.04 cfs @ 0.49 hrs, Volume= 1.033 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 662.93' @ 0.49 hrs Surf.Area= 19,563 sf Storage= 80,374 cf (43,977 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 1,148.4 min calculated for 0.197 af (19% of inflow)
Center-of-Mass det. time= 493.5 min (508.5 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=1.04 cfs @ 0.49 hrs HW=662.93' (Free Discharge)
└**1=RCP_Round 48"** (Passes 1.04 cfs of 52.80 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Controls 0.00 cfs)
  └**5=Orifice/Grate** (Orifice Controls 1.04 cfs @ 7.94 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Outflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.61' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.74 cfs @ 0.25 hrs HW=670.51' TW=670.45' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Outlet Controls 2.74 cfs @ 1.71 fps)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af
Outflow = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.15' @ 0.26 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.89 cfs @ 0.25 hrs HW=671.13' TW=670.98' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Outlet Controls 2.89 cfs @ 2.41 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.57" for 1-Year event
Inflow = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af
Outflow = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.65' @ 0.27 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.43 cfs @ 0.25 hrs HW=670.62' TW=670.42' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 0.43 cfs @ 2.12 fps)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.39" for 1-Year event
Inflow = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af
Outflow = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min
Primary = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.24' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=20.18 cfs @ 0.25 hrs HW=677.24' TW=671.30' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Barrel Controls 20.18 cfs @ 7.92 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.36 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.82"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.28 cfs @ 0.25 hrs, Volume= 0.047 af, Depth= 0.53"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 21.62 cfs @ 0.25 hrs, Volume= 0.447 af, Depth= 0.46"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.43 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.65"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.10 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.82"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.58 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 0.68"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.63"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.38 cfs @ 0.25 hrs, Volume= 0.029 af, Depth= 0.82"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af, Depth= 0.82"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.81 cfs @ 0.25 hrs, Volume= 0.017 af, Depth= 0.82"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.75 cfs @ 0.25 hrs, Volume= 0.016 af, Depth= 0.82"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.23 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 1.85 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 0.82"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 0.82"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.24 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af, Depth= 0.53"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 0.78"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 0.82"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af, Depth= 0.78"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 11.99 cfs @ 0.25 hrs, Volume= 0.248 af, Depth= 0.53"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.43 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.25 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.82"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.23 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 0.82"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af
Outflow = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.25' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.91 cfs @ 0.25 hrs HW=671.17' TW=670.74' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 3.91 cfs @ 3.04 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af
Outflow = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.95' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.85 cfs @ 0.25 hrs HW=670.71' TW=670.57' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.85 cfs @ 1.95 fps)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af
Outflow = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min
Primary = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.74' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.06 cfs @ 0.25 hrs HW=670.51' TW=670.50' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.06 cfs @ 0.66 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af
Outflow = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.84' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.03 cfs @ 0.25 hrs HW=670.57' TW=670.51' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.03 cfs @ 1.18 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Outflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.53' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=21.35 cfs @ 0.25 hrs HW=670.49' TW=670.09' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 21.35 cfs @ 3.02 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af
Outflow = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.64' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"**
			L= 33.1' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.39 cfs @ 0.25 hrs HW=670.50' TW=670.49' (Dynamic Tailwater)
↑—1=RCP_Round 24" (Outlet Controls 2.39 cfs @ 0.76 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 47.37 cfs @ 0.25 hrs, Volume= 0.979 af
Outflow = 47.37 cfs @ 0.25 hrs, Volume= 0.979 af, Atten= 0%, Lag= 0.0 min
Primary = 47.37 cfs @ 0.25 hrs, Volume= 0.979 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 669.53' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"**
			L= 86.5' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=47.37 cfs @ 0.25 hrs HW=669.53' TW=661.92' (Dynamic Tailwater)
↑—1=RCP_Round 48" (Barrel Controls 47.37 cfs @ 6.38 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af
Outflow = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
Primary = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.64' @ 0.27 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"**
			L= 123.9' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.38 cfs @ 0.25 hrs HW=671.61' TW=671.32' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.38 cfs @ 2.29 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af
Outflow = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min
Primary = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.87' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.39 cfs @ 0.25 hrs HW=670.79' TW=670.49' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 13.39 cfs @ 3.11 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af
Outflow = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.80' @ 0.29 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.52 cfs @ 0.25 hrs HW=672.74' TW=672.64' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.52 cfs @ 1.59 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.47" for 2-Year event
Inflow = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af
Outflow = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af, Atten= 0%, Lag= 0.0 min
Primary = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.54' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=23.46 cfs @ 0.25 hrs HW=671.54' TW=669.53' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 23.46 cfs @ 6.21 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af
Outflow = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.71' @ 0.28 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.13 cfs @ 0.25 hrs HW=672.64' TW=672.55' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.13 cfs @ 1.64 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Outflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af, Atten= 0%, Lag= 0.0 min
Primary = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.18' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.73 cfs @ 0.25 hrs HW=671.09' TW=670.79' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 12.73 cfs @ 3.30 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af
Outflow = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.61' @ 0.27 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.90 cfs @ 0.25 hrs HW=672.55' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.90 cfs @ 2.00 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af
Outflow = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.34' @ 0.27 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.44 cfs @ 0.25 hrs HW=672.31' TW=671.96' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 6.44 cfs @ 3.02 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af
Outflow = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min
Primary = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.46' @ 0.27 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.68 cfs @ 0.25 hrs HW=672.41' TW=672.31' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.68 cfs @ 1.83 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Outflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.12' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=22.04 cfs @ 0.25 hrs HW=670.09' TW=669.53' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 22.04 cfs @ 4.20 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af
Outflow = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min
Primary = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.27 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.70 cfs @ 0.25 hrs HW=671.96' TW=671.72' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 7.70 cfs @ 2.76 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af
Outflow = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af, Atten= 0%, Lag= 0.0 min
Primary = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.77' @ 0.27 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=10.59 cfs @ 0.25 hrs HW=671.72' TW=671.43' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 10.59 cfs @ 3.16 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Outflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af, Atten= 0%, Lag= 0.0 min
Primary = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.50' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.11 cfs @ 0.25 hrs HW=671.43' TW=671.09' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 13.11 cfs @ 3.56 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.53" for 2-Year event
Inflow = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af
Outflow = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.12' @ 0.28 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.21 cfs @ 0.25 hrs HW=671.10' TW=670.80' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 0.21 cfs @ 2.11 fps)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.78" for 2-Year event
Inflow = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af
Outflow = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
Primary = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.04' @ 0.26 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.24 cfs @ 0.25 hrs HW=673.03' TW=672.31' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.24 cfs @ 3.70 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af
Outflow = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.96' @ 0.27 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 0.25 hrs HW=671.88' TW=671.72' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.50 cfs @ 1.91 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.78" for 2-Year event
Inflow = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af
Outflow = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.13' @ 0.26 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.42 cfs @ 0.25 hrs HW=672.12' TW=671.43' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.42 cfs @ 3.05 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.57" for 2-Year event
Inflow = 59.37 cfs @ 0.25 hrs, Volume= 1.227 af
Outflow = 1.11 cfs @ 0.50 hrs, Volume= 1.224 af, Atten= 98%, Lag= 14.7 min
Primary = 1.11 cfs @ 0.50 hrs, Volume= 1.224 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 663.33' @ 0.50 hrs Surf.Area= 21,419 sf Storage= 88,586 cf (52,189 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 1,035.8 min calculated for 0.388 af (32% of inflow)
Center-of-Mass det. time= 532.8 min (547.8 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=1.11 cfs @ 0.50 hrs HW=663.33' (Free Discharge)
└**1=RCP_Round 48"** (Passes 1.11 cfs of 64.09 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Controls 0.00 cfs)
  └**5=Orifice/Grate** (Orifice Controls 1.11 cfs @ 8.50 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af
Outflow = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min
Primary = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.00' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.36 cfs @ 0.25 hrs HW=670.74' TW=670.71' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Outlet Controls 2.36 cfs @ 1.21 fps)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af
Outflow = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.36' @ 0.28 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.31 cfs @ 0.25 hrs HW=671.32' TW=671.17' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.31 cfs @ 1.88 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.68" for 2-Year event
Inflow = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af
Outflow = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.92' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 0.25 hrs HW=670.80' TW=670.79' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 0.18 cfs @ 0.54 fps)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.47" for 2-Year event
Inflow = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af
Outflow = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af, Atten= 0%, Lag= 0.0 min
Primary = 23.90 cfs @ 0.25 hrs, Volume= 0.494 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.44' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=23.90 cfs @ 0.25 hrs HW=677.44' TW=671.54' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 23.90 cfs @ 8.18 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.42 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.97"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.70 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 0.63"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 25.50 cfs @ 0.25 hrs, Volume= 0.527 af, Depth= 0.54"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.97"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.36 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.77"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.11 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.97"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 0.81"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.41 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.74"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.63 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 0.97"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af, Depth= 0.97"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 0.97"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af, Depth= 0.97"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.18 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 0.97"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.61 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 0.97"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.63"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af, Depth= 0.93"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 0.97"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 0.92"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 14.15 cfs @ 0.25 hrs, Volume= 0.292 af, Depth= 0.62"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.97"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.47 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.44 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.97"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.92 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 0.97"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af
Outflow = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.87' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.34 cfs @ 0.25 hrs HW=671.42' TW=671.06' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.34 cfs @ 2.83 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af
Outflow = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.59' @ 0.29 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.91 cfs @ 0.25 hrs HW=671.10' TW=671.08' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 1.91 cfs @ 0.76 fps)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Outflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min
Primary = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.36' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.63 cfs @ 0.25 hrs HW=671.07' TW=671.05' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.63 cfs @ 0.84 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.50' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=1.19 cfs @ 0.25 hrs HW=671.08' TW=671.07' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 1.19 cfs @ 0.39 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Outflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af, Atten= 0%, Lag= 0.0 min
Primary = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.07' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=25.54 cfs @ 0.25 hrs HW=671.02' TW=670.46' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 25.54 cfs @ 3.61 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af
Outflow = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min
Primary = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.22' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"**
			L= 33.1' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.62 cfs @ 0.25 hrs HW=671.05' TW=671.02' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Outlet Controls 3.62 cfs @ 1.15 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.69" for 5-Year event
Inflow = 55.88 cfs @ 0.25 hrs, Volume= 1.155 af
Outflow = 55.88 cfs @ 0.25 hrs, Volume= 1.155 af, Atten= 0%, Lag= 0.0 min
Primary = 55.88 cfs @ 0.25 hrs, Volume= 1.155 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 669.86' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"**
			L= 86.5' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=55.88 cfs @ 0.25 hrs HW=669.86' TW=662.22' (Dynamic Tailwater)
↑—**1=RCP_Round 48"** (Barrel Controls 55.88 cfs @ 6.65 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Outflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.11' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"**
			L= 123.9' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.54 cfs @ 0.25 hrs HW=671.83' TW=671.62' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.54 cfs @ 1.99 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af
Outflow = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af, Atten= 0%, Lag= 0.0 min
Primary = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.50' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.51 cfs @ 0.25 hrs HW=671.36' TW=671.02' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 15.51 cfs @ 3.16 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.12' @ 0.29 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.58 cfs @ 0.25 hrs HW=672.95' TW=672.87' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.58 cfs @ 1.41 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.55" for 5-Year event
Inflow = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af
Outflow = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af, Atten= 0%, Lag= 0.0 min
Primary = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.82' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=27.58 cfs @ 0.25 hrs HW=671.82' TW=669.86' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 27.58 cfs @ 6.27 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af
Outflow = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.03' @ 0.29 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.99 cfs @ 0.25 hrs HW=672.87' TW=672.81' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 1.99 cfs @ 1.30 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Outflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af, Atten= 0%, Lag= 0.0 min
Primary = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.81' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.78 cfs @ 0.25 hrs HW=671.57' TW=671.36' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 12.78 cfs @ 2.79 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af
Outflow = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
Primary = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.93' @ 0.29 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.35 cfs @ 0.25 hrs HW=672.81' TW=672.66' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.35 cfs @ 1.89 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af
Outflow = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af, Atten= 0%, Lag= 0.0 min
Primary = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.69' @ 0.30 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.30 cfs @ 0.25 hrs HW=672.58' TW=672.26' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 7.30 cfs @ 2.92 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.77' @ 0.29 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.86 cfs @ 0.25 hrs HW=672.66' TW=672.58' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.86 cfs @ 1.63 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Outflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af, Atten= 0%, Lag= 0.0 min
Primary = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.49' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=25.85 cfs @ 0.25 hrs HW=670.46' TW=669.86' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 25.85 cfs @ 4.33 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af
Outflow = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min
Primary = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.47' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.21 cfs @ 0.25 hrs HW=672.26' TW=672.08' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 8.21 cfs @ 2.45 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.96" for 5-Year event
Inflow = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af
Outflow = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af, Atten= 0%, Lag= 0.0 min
Primary = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.31' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.23 cfs @ 0.25 hrs HW=672.08' TW=671.85' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.23 cfs @ 2.83 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Outflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af, Atten= 0%, Lag= 0.0 min
Primary = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.10' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.00 cfs @ 0.25 hrs HW=671.85' TW=671.57' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 14.00 cfs @ 3.22 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.63" for 5-Year event
Inflow = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af
Outflow = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.53' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.21' TW=671.21' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.93" for 5-Year event
Inflow = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af
Outflow = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.19' @ 0.26 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.58 cfs @ 0.25 hrs HW=673.18' TW=672.58' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.58 cfs @ 3.49 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af
Outflow = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.53' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.75 cfs @ 0.25 hrs HW=672.29' TW=672.08' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.75 cfs @ 2.23 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.92" for 5-Year event
Inflow = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af
Outflow = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.43' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.56 cfs @ 0.25 hrs HW=672.31' TW=671.85' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.56 cfs @ 2.60 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.68" for 5-Year event
Inflow = 70.03 cfs @ 0.25 hrs, Volume= 1.447 af
Outflow = 1.19 cfs @ 0.50 hrs, Volume= 1.444 af, Atten= 98%, Lag= 14.8 min
Primary = 1.19 cfs @ 0.50 hrs, Volume= 1.444 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 663.75' @ 0.50 hrs Surf.Area= 23,466 sf Storage= 98,082 cf (61,685 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 999.5 min calculated for 0.608 af (42% of inflow)
Center-of-Mass det. time= 577.6 min (592.6 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=1.19 cfs @ 0.50 hrs HW=663.75' (Free Discharge)
└**1=RCP_Round 48"** (Passes 1.19 cfs of 76.03 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Controls 0.00 cfs)
  └**5=Orifice/Grate** (Orifice Controls 1.19 cfs @ 9.06 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.63' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.06' TW=671.10' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.02' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.83 cfs @ 0.25 hrs HW=671.62' TW=671.42' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.83 cfs @ 2.17 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.80" for 5-Year event
Inflow = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af
Outflow = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.52' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.21' TW=671.36' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.55" for 5-Year event
Inflow = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af
Outflow = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af, Atten= 0%, Lag= 0.0 min
Primary = 28.19 cfs @ 0.25 hrs, Volume= 0.583 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.67' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=28.19 cfs @ 0.25 hrs HW=677.67' TW=671.82' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 28.19 cfs @ 8.43 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.47 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.07"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Depth= 0.70"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 28.28 cfs @ 0.25 hrs, Volume= 0.584 af, Depth= 0.60"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.07"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.85"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.13 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.07"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.76 cfs @ 0.25 hrs, Volume= 0.016 af, Depth= 0.90"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.45 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.07"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af, Depth= 1.07"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.06 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 1.07"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.98 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 1.07"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.42 cfs @ 0.25 hrs, Volume= 0.050 af, Depth= 1.07"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.79 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.07"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.70"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af, Depth= 1.03"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af, Depth= 1.07"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.02"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 15.69 cfs @ 0.25 hrs, Volume= 0.324 af, Depth= 0.69"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.07"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.63 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 1.07"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.49 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.07"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.12 cfs @ 0.25 hrs, Volume= 0.044 af, Depth= 1.07"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.48' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.46 cfs @ 0.25 hrs HW=671.69' TW=671.37' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.46 cfs @ 2.58 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af
Outflow = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.13' @ 0.29 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"**
			L= 110.0' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.49' TW=671.54' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af
Outflow = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min
Primary = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.84' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.46 cfs @ 0.25 hrs HW=671.51' TW=671.47' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.46 cfs @ 1.10 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af
Outflow = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min
Primary = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.48 cfs @ 0.25 hrs HW=671.54' TW=671.51' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.48 cfs @ 0.79 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Outflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.48' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=28.48 cfs @ 0.25 hrs HW=671.43' TW=670.73' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 28.48 cfs @ 4.03 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.05" for 10-Year event
Inflow = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af
Outflow = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
Primary = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.66' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.44 cfs @ 0.25 hrs HW=671.47' TW=671.43' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Outlet Controls 4.44 cfs @ 1.41 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.77" for 10-Year event
Inflow = 61.98 cfs @ 0.25 hrs, Volume= 1.281 af
Outflow = 61.98 cfs @ 0.25 hrs, Volume= 1.281 af, Atten= 0%, Lag= 0.0 min
Primary = 61.98 cfs @ 0.25 hrs, Volume= 1.281 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.10' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=61.98 cfs @ 0.25 hrs HW=670.10' TW=662.42' (Dynamic Tailwater)
↑—**1=RCP_Round 48"** (Barrel Controls 61.98 cfs @ 6.82 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Outflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.77' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.38 cfs @ 0.25 hrs HW=672.03' TW=671.90' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.38 cfs @ 1.61 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af
Outflow = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af, Atten= 0%, Lag= 0.0 min
Primary = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.50 cfs @ 0.25 hrs HW=671.87' TW=671.43' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 17.50 cfs @ 3.56 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af
Outflow = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.72' @ 0.34 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.44 cfs @ 0.25 hrs HW=673.17' TW=673.11' (Dynamic Tailwater)
1=RCP_Round 15" (Inlet Controls 1.44 cfs @ 1.17 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.61" for 10-Year event
Inflow = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af
Outflow = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af, Atten= 0%, Lag= 0.0 min
Primary = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.03' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=30.52 cfs @ 0.25 hrs HW=672.02' TW=670.10' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 30.52 cfs @ 6.30 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af
Outflow = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.65' @ 0.33 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.16 cfs @ 0.25 hrs HW=673.11' TW=673.04' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 2.16 cfs @ 1.22 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Outflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min
Primary = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.41' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.28 cfs @ 0.25 hrs HW=672.13' TW=671.87' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 14.28 cfs @ 2.91 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.57' @ 0.32 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.62 cfs @ 0.25 hrs HW=673.04' TW=672.86' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Inlet Controls 3.62 cfs @ 2.05 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af
Outflow = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min
Primary = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.34' @ 0.30 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=7.63 cfs @ 0.25 hrs HW=672.81' TW=672.52' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 7.63 cfs @ 2.75 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af
Outflow = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.43' @ 0.31 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.62 cfs @ 0.25 hrs HW=672.86' TW=672.81' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 3.62 cfs @ 1.15 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Outflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.76' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=28.58 cfs @ 0.25 hrs HW=670.73' TW=670.10' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 28.58 cfs @ 4.45 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af
Outflow = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af, Atten= 0%, Lag= 0.0 min
Primary = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.12' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.30 cfs @ 0.25 hrs HW=672.52' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 7.30 cfs @ 1.92 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af
Outflow = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min
Primary = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.00' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.48 cfs @ 0.25 hrs HW=672.41' TW=672.31' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 8.48 cfs @ 1.90 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Outflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min
Primary = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.77' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.23 cfs @ 0.25 hrs HW=672.31' TW=672.13' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 12.23 cfs @ 2.52 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.70" for 10-Year event
Inflow = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af
Outflow = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.04' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.50' TW=671.69' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.03" for 10-Year event
Inflow = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af
Outflow = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
Primary = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.55' @ 0.31 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.77 cfs @ 0.25 hrs HW=673.30' TW=672.81' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.77 cfs @ 3.24 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af
Outflow = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.26' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.84 cfs @ 0.25 hrs HW=672.65' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.84 cfs @ 2.34 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.02" for 10-Year event
Inflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Outflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.13' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.37 cfs @ 0.25 hrs HW=672.55' TW=672.31' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.37 cfs @ 1.86 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.75" for 10-Year event
Inflow = 77.67 cfs @ 0.25 hrs, Volume= 1.605 af
Outflow = 1.32 cfs @ 0.50 hrs, Volume= 1.602 af, Atten= 98%, Lag= 14.8 min
Primary = 1.32 cfs @ 0.50 hrs, Volume= 1.602 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.04' @ 0.50 hrs Surf.Area= 24,799 sf Storage= 104,888 cf (68,491 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 994.5 min calculated for 0.766 af (48% of inflow)
Center-of-Mass det. time= 608.9 min (623.9 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=1.32 cfs @ 0.50 hrs HW=664.04' (Free Discharge)
└**1=RCP_Round 48"** (Passes 1.32 cfs of 83.76 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 0.08 cfs @ 0.60 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.23 cfs @ 9.42 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.18' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.37' TW=671.49' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af
Outflow = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
Primary = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.66' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.87 cfs @ 0.25 hrs HW=671.90' TW=671.69' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.87 cfs @ 2.19 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.89" for 10-Year event
Inflow = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af
Outflow = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.04' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.69' TW=671.87' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.61" for 10-Year event
Inflow = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af
Outflow = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af, Atten= 0%, Lag= 0.0 min
Primary = 31.27 cfs @ 0.25 hrs, Volume= 0.646 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.84' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=31.27 cfs @ 0.25 hrs HW=677.84' TW=672.02' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 31.27 cfs @ 8.58 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.53 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.20"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.35 cfs @ 0.25 hrs, Volume= 0.069 af, Depth= 0.78"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 31.65 cfs @ 0.25 hrs, Volume= 0.654 af, Depth= 0.67"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.20"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.45 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.95"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.14 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.20"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.85 cfs @ 0.25 hrs, Volume= 0.017 af, Depth= 1.00"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.50 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 0.92"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.02 cfs @ 0.25 hrs, Volume= 0.042 af, Depth= 1.20"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af, Depth= 1.20"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.19 cfs @ 0.25 hrs, Volume= 0.025 af, Depth= 1.20"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.10 cfs @ 0.25 hrs, Volume= 0.023 af, Depth= 1.20"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.20"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.00 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.20"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.78"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Depth= 1.15"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.20"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Depth= 1.14"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 17.56 cfs @ 0.25 hrs, Volume= 0.363 af, Depth= 0.77"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.20"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.83 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 1.20"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.55 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.20"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Depth= 1.20"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af
Outflow = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.28' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.74 cfs @ 0.25 hrs HW=672.31' TW=671.92' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.74 cfs @ 2.68 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af
Outflow = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.0 min
Primary = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.84' @ 0.29 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.08' TW=672.12' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af
Outflow = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af, Atten= 0%, Lag= 0.0 min
Primary = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.48' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.21 cfs @ 0.25 hrs HW=672.07' TW=672.02' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 4.21 cfs @ 1.34 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af
Outflow = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
Primary = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.69' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.11 cfs @ 0.25 hrs HW=672.12' TW=672.07' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.11 cfs @ 0.99 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Outflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af, Atten= 0%, Lag= 0.0 min
Primary = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.03' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.79 cfs @ 0.25 hrs HW=671.96' TW=671.09' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 31.79 cfs @ 4.50 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af
Outflow = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af, Atten= 0%, Lag= 0.0 min
Primary = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.26' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.12 cfs @ 0.25 hrs HW=672.02' TW=671.96' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 5.12 cfs @ 1.63 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.86" for 25-Year event
Inflow = 69.36 cfs @ 0.25 hrs, Volume= 1.433 af
Outflow = 69.36 cfs @ 0.25 hrs, Volume= 1.433 af, Atten= 0%, Lag= 0.0 min
Primary = 69.36 cfs @ 0.25 hrs, Volume= 1.433 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.39' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=69.36 cfs @ 0.25 hrs HW=670.39' TW=662.65' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 69.36 cfs @ 7.03 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af
Outflow = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.64' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.39' TW=672.45' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af
Outflow = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af, Atten= 0%, Lag= 0.0 min
Primary = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.69' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=19.64 cfs @ 0.25 hrs HW=672.52' TW=671.96' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 19.64 cfs @ 4.00 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af
Outflow = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.84' @ 0.34 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.44 cfs @ 0.25 hrs HW=673.50' TW=673.44' (Dynamic Tailwater)
1=RCP_Round 15" (Inlet Controls 1.44 cfs @ 1.18 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.68" for 25-Year event
Inflow = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af
Outflow = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af, Atten= 0%, Lag= 0.0 min
Primary = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.28' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=34.02 cfs @ 0.25 hrs HW=672.28' TW=670.39' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 34.02 cfs @ 6.32 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Outflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
Primary = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.74' @ 0.33 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.98 cfs @ 0.25 hrs HW=673.44' TW=673.39' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 1.98 cfs @ 1.12 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Outflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.19' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.16 cfs @ 0.25 hrs HW=672.85' TW=672.52' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 16.16 cfs @ 3.29 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af
Outflow = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.65' @ 0.32 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.74 cfs @ 0.25 hrs HW=673.39' TW=673.20' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.74 cfs @ 2.12 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af
Outflow = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af, Atten= 0%, Lag= 0.0 min
Primary = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.35' @ 0.30 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.02 cfs @ 0.25 hrs HW=673.20' TW=673.05' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 6.02 cfs @ 1.92 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af
Outflow = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.47' @ 0.31 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.20' TW=673.20' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Outflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af, Atten= 0%, Lag= 0.0 min
Primary = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.14' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.96 cfs @ 0.25 hrs HW=671.09' TW=670.39' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 31.96 cfs @ 4.62 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af
Outflow = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af, Atten= 0%, Lag= 0.0 min
Primary = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.08' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.05' TW=673.20' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.19" for 25-Year event
Inflow = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af
Outflow = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af, Atten= 0%, Lag= 0.0 min
Primary = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.93' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.87 cfs @ 0.25 hrs HW=673.20' TW=673.14' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 6.87 cfs @ 1.40 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Outflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.64' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.04 cfs @ 0.25 hrs HW=673.14' TW=672.85' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 15.04 cfs @ 3.06 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.78" for 25-Year event
Inflow = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af
Outflow = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.73' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.04' TW=672.30' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.15" for 25-Year event
Inflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Outflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.58' @ 0.31 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.61 cfs @ 0.25 hrs HW=673.50' TW=673.20' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.61 cfs @ 2.56 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af
Outflow = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.26' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.29 cfs @ 0.25 hrs HW=673.31' TW=673.20' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.29 cfs @ 1.65 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.14" for 25-Year event
Inflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.09' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 0.25 hrs HW=673.43' TW=673.14' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.50 cfs @ 1.91 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.84" for 25-Year event
Inflow = 86.91 cfs @ 0.25 hrs, Volume= 1.796 af
Outflow = 3.80 cfs @ 0.49 hrs, Volume= 1.793 af, Atten= 96%, Lag= 14.3 min
Primary = 3.80 cfs @ 0.49 hrs, Volume= 1.793 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.34' @ 0.49 hrs Surf.Area= 25,652 sf Storage= 112,503 cf (76,106 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 950.5 min calculated for 0.957 af (53% of inflow)
Center-of-Mass det. time= 598.9 min (613.9 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=3.79 cfs @ 0.49 hrs HW=664.34' (Free Discharge)
└**1=RCP_Round 48"** (Passes 3.79 cfs of 91.64 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 2.51 cfs @ 1.86 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.28 cfs @ 9.78 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af
Outflow = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min
Primary = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.91' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.92' TW=672.08' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af
Outflow = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.51' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.23 cfs @ 0.25 hrs HW=672.45' TW=672.31' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.23 cfs @ 1.83 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.99" for 25-Year event
Inflow = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af
Outflow = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.73' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.30' TW=672.52' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.68" for 25-Year event
Inflow = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af
Outflow = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af, Atten= 0%, Lag= 0.0 min
Primary = 34.99 cfs @ 0.25 hrs, Volume= 0.723 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 678.05' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=34.99 cfs @ 0.25 hrs HW=678.05' TW=672.28' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 34.99 cfs @ 8.74 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.29"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.60 cfs @ 0.25 hrs, Volume= 0.074 af, Depth= 0.84"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 34.11 cfs @ 0.25 hrs, Volume= 0.705 af, Depth= 0.72"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 1.29"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.48 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.03"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.15 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.29"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.91 cfs @ 0.25 hrs, Volume= 0.019 af, Depth= 1.08"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.54 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.99"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.18 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 1.29"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Depth= 1.29"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.28 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 1.29"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.19 cfs @ 0.25 hrs, Volume= 0.025 af, Depth= 1.29"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af, Depth= 1.29"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 1.29"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.84"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af, Depth= 1.24"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af, Depth= 1.29"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Depth= 1.23"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 18.92 cfs @ 0.25 hrs, Volume= 0.391 af, Depth= 0.83"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 1.29"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.29"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.59 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.29"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.56 cfs @ 0.25 hrs, Volume= 0.053 af, Depth= 1.29"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af
Outflow = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.97' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.19 cfs @ 0.25 hrs HW=672.82' TW=672.36' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 5.19 cfs @ 2.94 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Outflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min
Primary = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.48' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.53' TW=672.57' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af
Outflow = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af, Atten= 0%, Lag= 0.0 min
Primary = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.08' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.41 cfs @ 0.25 hrs HW=672.51' TW=672.46' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 4.41 cfs @ 1.40 fps)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af
Outflow = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min
Primary = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.32' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.43 cfs @ 0.25 hrs HW=672.57' TW=672.51' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.43 cfs @ 1.09 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Outflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af, Atten= 0%, Lag= 0.0 min
Primary = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.57' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=33.04 cfs @ 0.25 hrs HW=672.41' TW=671.47' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 33.04 cfs @ 4.67 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.27" for 50-Year event
Inflow = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af
Outflow = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af, Atten= 0%, Lag= 0.0 min
Primary = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.83' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.55 cfs @ 0.25 hrs HW=672.46' TW=672.41' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Outlet Controls 4.55 cfs @ 1.45 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.93" for 50-Year event
Inflow = 74.75 cfs @ 0.25 hrs, Volume= 1.544 af
Outflow = 74.75 cfs @ 0.25 hrs, Volume= 1.544 af, Atten= 0%, Lag= 0.0 min
Primary = 74.75 cfs @ 0.25 hrs, Volume= 1.544 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.60' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=74.75 cfs @ 0.25 hrs HW=670.60' TW=662.81' (Dynamic Tailwater)
↑—**1=RCP_Round 48"** (Barrel Controls 74.75 cfs @ 7.17 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af
Outflow = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
Primary = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.36' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.92' TW=672.97' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af
Outflow = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af, Atten= 0%, Lag= 0.0 min
Primary = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.33' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=20.79 cfs @ 0.25 hrs HW=673.04' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 20.79 cfs @ 4.24 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Outflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
Primary = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.73' @ 0.34 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.38 cfs @ 0.25 hrs HW=673.80' TW=673.74' (Dynamic Tailwater)
1=RCP_Round 15" (Inlet Controls 1.38 cfs @ 1.13 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.73" for 50-Year event
Inflow = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af
Outflow = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af, Atten= 0%, Lag= 0.0 min
Primary = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.49' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=36.56 cfs @ 0.25 hrs HW=672.48' TW=670.60' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 36.56 cfs @ 6.33 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af
Outflow = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
Primary = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.63' @ 0.33 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.14 cfs @ 0.25 hrs HW=673.74' TW=673.72' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 1.14 cfs @ 0.65 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Outflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af, Atten= 0%, Lag= 0.0 min
Primary = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.88' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"**
			L= 94.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.35 cfs @ 0.25 hrs HW=673.43' TW=673.04' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 17.35 cfs @ 3.53 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af
Outflow = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
Primary = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.51' @ 0.32 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"**
			L= 48.6' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.18 cfs @ 0.25 hrs HW=673.72' TW=673.58' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.18 cfs @ 1.80 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.27" for 50-Year event
Inflow = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af
Outflow = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af, Atten= 0%, Lag= 0.0 min
Primary = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.18' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"**
			L= 98.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.01 cfs @ 0.25 hrs HW=673.80' TW=673.69' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 5.01 cfs @ 1.60 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af
Outflow = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.31' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.58' TW=673.80' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Outflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af, Atten= 0%, Lag= 0.0 min
Primary = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.53' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=34.70 cfs @ 0.25 hrs HW=671.47' TW=670.60' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 34.70 cfs @ 4.91 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af
Outflow = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af, Atten= 0%, Lag= 0.0 min
Primary = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.86' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.69' TW=673.83' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af
Outflow = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af, Atten= 0%, Lag= 0.0 min
Primary = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.69' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.69 cfs @ 0.25 hrs HW=673.83' TW=673.76' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 7.69 cfs @ 1.57 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Outflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af, Atten= 0%, Lag= 0.0 min
Primary = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.37' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.27 cfs @ 0.25 hrs HW=673.76' TW=673.43' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 16.27 cfs @ 3.31 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.84" for 50-Year event
Inflow = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af
Outflow = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
Primary = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.37' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.49' TW=672.78' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.24" for 50-Year event
Inflow = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af
Outflow = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af, Atten= 0%, Lag= 0.0 min
Primary = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.44' @ 0.31 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.79' TW=673.80' (Dynamic Tailwater)
1=RCP_Round 15" (Controls 0.00 cfs)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af
Outflow = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.07' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.58 cfs @ 0.25 hrs HW=674.01' TW=673.83' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.58 cfs @ 2.01 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.23" for 50-Year event
Inflow = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af
Outflow = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min
Primary = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.88' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.63 cfs @ 0.25 hrs HW=674.10' TW=673.76' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.63 cfs @ 2.07 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.90" for 50-Year event
Inflow = 93.67 cfs @ 0.25 hrs, Volume= 1.935 af
Outflow = 6.31 cfs @ 0.48 hrs, Volume= 1.932 af, Atten= 93%, Lag= 14.0 min
Primary = 6.31 cfs @ 0.48 hrs, Volume= 1.932 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.53' @ 0.48 hrs Surf.Area= 26,213 sf Storage= 117,586 cf (81,189 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 900.0 min calculated for 1.096 af (57% of inflow)
Center-of-Mass det. time= 572.5 min (587.5 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=6.30 cfs @ 0.48 hrs HW=664.53' (Free Discharge)
└**1=RCP_Round 48"** (Passes 6.30 cfs of 96.30 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 4.99 cfs @ 2.34 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.31 cfs @ 10.01 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af
Outflow = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af, Atten= 0%, Lag= 0.0 min
Primary = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.56' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.36' TW=672.53' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.22' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.29 cfs @ 0.25 hrs HW=672.97' TW=672.82' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.29 cfs @ 1.86 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 1.07" for 50-Year event
Inflow = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af
Outflow = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.37' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.78' TW=673.04' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.73" for 50-Year event
Inflow = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af
Outflow = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af, Atten= 0%, Lag= 0.0 min
Primary = 37.71 cfs @ 0.25 hrs, Volume= 0.779 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 678.22' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=37.71 cfs @ 0.25 hrs HW=678.22' TW=672.48' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 37.71 cfs @ 8.84 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.38"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.84 cfs @ 0.25 hrs, Volume= 0.079 af, Depth= 0.90"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02N: HW-02

Runoff = 36.37 cfs @ 0.25 hrs, Volume= 0.751 af, Depth= 0.77"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
11.670	0.55	50-75% Grass cover, Fair, HSG C
11.670		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.73 cfs @ 0.25 hrs, Volume= 0.015 af, Depth= 1.38"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.52 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.10"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.16 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.38"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.97 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 1.15"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.58 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.05"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 1.38"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af, Depth= 1.38"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 1.38"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 1.38"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 3.12 cfs @ 0.25 hrs, Volume= 0.064 af, Depth= 1.38"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.30 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 1.38"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.90"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Depth= 1.32"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Depth= 1.38"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af, Depth= 1.31"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17S: CB-17

Runoff = 20.18 cfs @ 0.25 hrs, Volume= 0.417 af, Depth= 0.89"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
2.045	0.64	50-75% Grass cover, Fair, HSG D
3.040	0.55	50-75% Grass cover, Fair, HSG C
0.567	0.98	Water Surface, HSG D
5.652	0.63	Weighted Average
5.085		89.97% Pervious Area
0.567		10.03% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.73 cfs @ 0.25 hrs, Volume= 0.015 af, Depth= 1.38"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 2.10 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.38"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.73 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.38"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af
Outflow = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min
Primary = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.68' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"**

L= 130.0' RCP, rounded edge headwall, Ke= 0.100
Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900
n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.57 cfs @ 0.25 hrs HW=673.31' TW=672.78' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 5.57 cfs @ 3.15 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af
Outflow = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
Primary = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.10' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"**
			L= 110.0' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.97' TW=673.02' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af
Outflow = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af, Atten= 0%, Lag= 0.0 min
Primary = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.63' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.96' TW=672.98' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af
Outflow = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min
Primary = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.91' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.43 cfs @ 0.25 hrs HW=673.02' TW=672.96' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.43 cfs @ 1.09 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Outflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af, Atten= 0%, Lag= 0.0 min
Primary = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.04' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=36.17 cfs @ 0.25 hrs HW=672.93' TW=671.80' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 36.17 cfs @ 5.12 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af
Outflow = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min
Primary = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.35' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"**
			L= 33.1' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.62 cfs @ 0.25 hrs HW=672.98' TW=672.93' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 4.62 cfs @ 1.47 fps)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 27.49% Impervious, Inflow Depth = 0.99" for 100-Year event
Inflow = 79.71 cfs @ 0.25 hrs, Volume= 1.647 af
Outflow = 79.71 cfs @ 0.25 hrs, Volume= 1.647 af, Atten= 0%, Lag= 0.0 min
Primary = 79.71 cfs @ 0.25 hrs, Volume= 1.647 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.81' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"**
			L= 86.5' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=79.71 cfs @ 0.25 hrs HW=670.81' TW=662.96' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 79.71 cfs @ 7.30 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af
Outflow = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min
Primary = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.14' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"**
			L= 123.9' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.43' TW=673.50' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af
Outflow = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af, Atten= 0%, Lag= 0.0 min
Primary = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.92' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=22.09 cfs @ 0.25 hrs HW=673.64' TW=672.93' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 22.09 cfs @ 4.50 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af
Outflow = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.70' @ 0.34 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.57 cfs @ 0.25 hrs HW=674.10' TW=674.09' (Dynamic Tailwater)
1=RCP_Round 15" (Inlet Controls 0.57 cfs @ 0.46 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.78" for 100-Year event
Inflow = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af
Outflow = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min
Primary = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.69' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=38.86 cfs @ 0.25 hrs HW=672.67' TW=670.81' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 38.86 cfs @ 6.33 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.58' @ 0.33 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.09' TW=674.14' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Outflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af, Atten= 0%, Lag= 0.0 min
Primary = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.56' @ 0.27 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.80 cfs @ 0.25 hrs HW=674.00' TW=673.64' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 16.80 cfs @ 3.42 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af
Outflow = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.46' @ 0.32 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.14' TW=674.19' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Controls 0.00 cfs)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af
Outflow = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min
Primary = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.08' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.71 cfs @ 0.25 hrs HW=674.43' TW=674.29' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 5.71 cfs @ 1.82 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af
Outflow = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af, Atten= 0%, Lag= 0.0 min
Primary = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.23' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.19' TW=674.43' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Outflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af, Atten= 0%, Lag= 0.0 min
Primary = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.85' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=37.08 cfs @ 0.25 hrs HW=671.80' TW=670.81' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 37.08 cfs @ 5.25 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af
Outflow = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
Primary = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.72' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.29' TW=674.45' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.37" for 100-Year event
Inflow = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af
Outflow = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af, Atten= 0%, Lag= 0.0 min
Primary = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.52' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.23 cfs @ 0.25 hrs HW=674.45' TW=674.36' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 8.23 cfs @ 1.68 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Outflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af, Atten= 0%, Lag= 0.0 min
Primary = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 675.15' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"**
			L= 89.8' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=17.16 cfs @ 0.25 hrs HW=674.36' TW=674.00' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 17.16 cfs @ 3.50 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.90" for 100-Year event
Inflow = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af
Outflow = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.97' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"**
			L= 32.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.92' TW=673.26' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.32" for 100-Year event
Inflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Outflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.37' @ 0.31 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"**
			L= 80.3' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.85 cfs @ 0.25 hrs HW=674.46' TW=674.43' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 0.85 cfs @ 0.69 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Outflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.95' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.70 cfs @ 0.25 hrs HW=674.65' TW=674.45' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.70 cfs @ 2.17 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.31" for 100-Year event
Inflow = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af
Outflow = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.74' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.74 cfs @ 0.25 hrs HW=674.76' TW=674.36' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 1.74 cfs @ 2.21 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 23.65% Impervious, Inflow Depth = 0.96" for 100-Year event
Inflow = 99.89 cfs @ 0.25 hrs, Volume= 2.064 af
Outflow = 8.87 cfs @ 0.48 hrs, Volume= 2.061 af, Atten= 91%, Lag= 13.7 min
Primary = 8.87 cfs @ 0.48 hrs, Volume= 2.061 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.70' @ 0.48 hrs Surf.Area= 26,697 sf Storage= 122,019 cf (85,621 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 851.0 min calculated for 1.225 af (59% of inflow)
Center-of-Mass det. time= 546.6 min (561.6 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600

Limited to weir flow at low heads

Primary OutFlow Max=8.86 cfs @ 0.48 hrs HW=664.70' (Free Discharge)
└**1=RCP_Round 48"** (Passes 8.86 cfs of 99.43 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 7.53 cfs @ 2.69 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.34 cfs @ 10.20 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af
Outflow = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min
Primary = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.19' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.78' TW=672.97' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af
Outflow = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min
Primary = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.97' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.71 cfs @ 0.25 hrs HW=673.50' TW=673.31' (Dynamic Tailwater)
└**1=RCP_Round 18"** (Inlet Controls 3.71 cfs @ 2.10 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 1.14" for 100-Year event
Inflow = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af
Outflow = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.96' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.26' TW=673.64' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

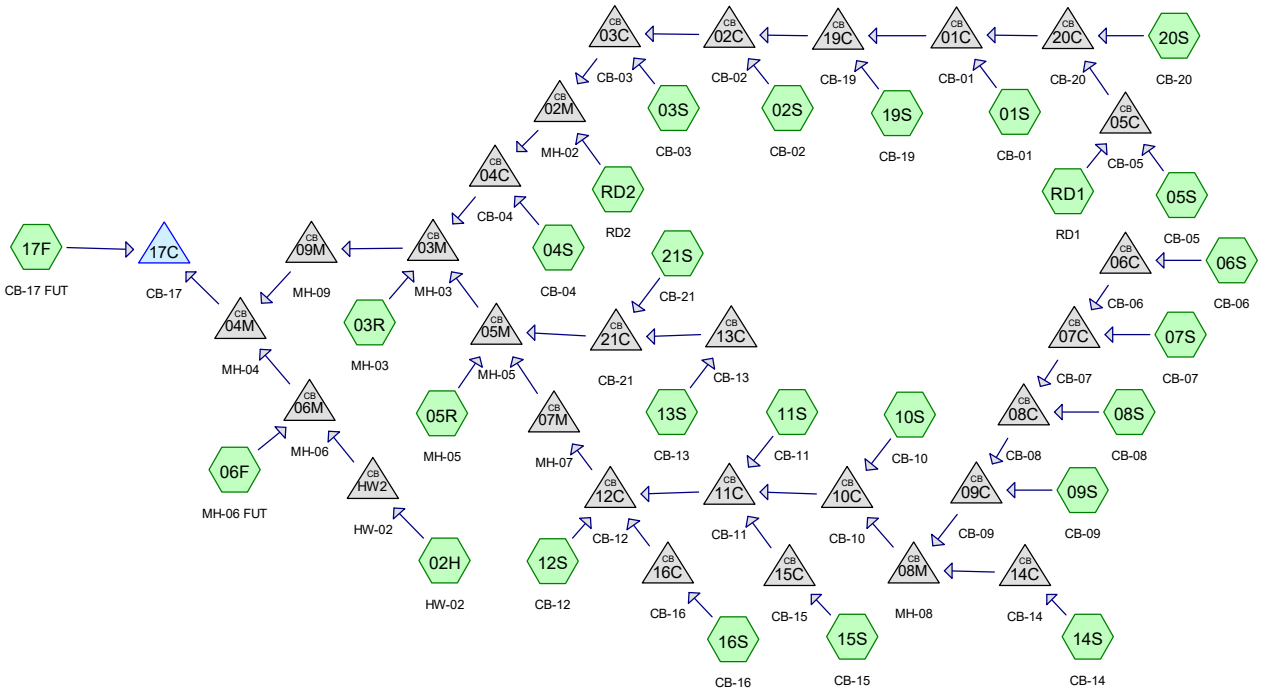
Summary for Pond HW2: HW-02

Inflow Area = 12.730 ac, 0.00% Impervious, Inflow Depth = 0.78" for 100-Year event
Inflow = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af
Outflow = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min
Primary = 40.22 cfs @ 0.25 hrs, Volume= 0.831 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 678.41' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=40.22 cfs @ 0.25 hrs HW=678.41' TW=672.67' (Dynamic Tailwater)
1=RCP_Round 30" (Barrel Controls 40.22 cfs @ 8.90 fps)



Routing Diagram for Monroe Rational
Prepared by Infrastructure & Development Eng, Printed 4/3/2026
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Summary for Subcatchment 01S: CB-01

Runoff = 0.30 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.69"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 1.93 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 0.45"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.69"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.26 cfs @ 0.25 hrs, Volume= 0.005 af, Depth= 0.55"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.08 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.69"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.49 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 0.58"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.29 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.53"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.17 cfs @ 0.25 hrs, Volume= 0.024 af, Depth= 0.69"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 30.86 cfs @ 0.25 hrs, Volume= 0.638 af, Depth= 0.66"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 0.69"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.69 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 0.69"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.64 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 0.69"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 1.56 cfs @ 0.25 hrs, Volume= 0.032 af, Depth= 0.69"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.15 cfs @ 0.25 hrs, Volume= 0.024 af, Depth= 0.69"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af, Depth= 0.45"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 0.66"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af, Depth= 0.69"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.66"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 14.95 cfs @ 0.25 hrs, Volume= 0.309 af, Depth= 0.66"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.69"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.05 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.69"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.04 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 0.69"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 0.69"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 1-Year Duration=15.0 min, Inten=2.82 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af
Outflow = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
Primary = 3.57 cfs @ 0.25 hrs, Volume= 0.074 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.04' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.33 cfs @ 0.25 hrs HW=671.01' TW=670.57' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 3.33 cfs @ 2.99 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af
Outflow = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 4.30 cfs @ 0.25 hrs, Volume= 0.089 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.75' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.35 cfs @ 0.25 hrs HW=670.54' TW=670.40' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.35 cfs @ 1.94 fps)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af
Outflow = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
Primary = 5.75 cfs @ 0.25 hrs, Volume= 0.119 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.57' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.34' TW=670.35' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af
Outflow = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
Primary = 4.38 cfs @ 0.25 hrs, Volume= 0.090 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.65' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"**
			L= 137.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.66 cfs @ 0.25 hrs HW=670.40' TW=670.34' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.66 cfs @ 1.14 fps)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Outflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af, Atten= 0%, Lag= 0.0 min
Primary = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.44' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"**
			L= 22.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=17.15 cfs @ 0.25 hrs HW=670.36' TW=670.10' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 17.15 cfs @ 2.44 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af
Outflow = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min
Primary = 6.24 cfs @ 0.25 hrs, Volume= 0.129 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.51' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.35' TW=670.36' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 0.65" for 1-Year event
Inflow = 52.61 cfs @ 0.25 hrs, Volume= 1.087 af
Outflow = 52.61 cfs @ 0.25 hrs, Volume= 1.087 af, Atten= 0%, Lag= 0.0 min
Primary = 52.61 cfs @ 0.25 hrs, Volume= 1.087 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 669.73' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=52.61 cfs @ 0.25 hrs HW=669.73' TW=662.15' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 52.61 cfs @ 6.55 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.48' @ 0.26 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.07 cfs @ 0.25 hrs HW=671.47' TW=671.15' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.07 cfs @ 2.35 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af
Outflow = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af, Atten= 0%, Lag= 0.0 min
Primary = 13.32 cfs @ 0.25 hrs, Volume= 0.275 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.69' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.14 cfs @ 0.25 hrs HW=670.60' TW=670.36' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.14 cfs @ 2.77 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af
Outflow = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 1.60 cfs @ 0.25 hrs, Volume= 0.033 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.61' @ 0.28 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.36 cfs @ 0.25 hrs HW=672.57' TW=672.46' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Outlet Controls 1.36 cfs @ 1.67 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 0.64" for 1-Year event
Inflow = 32.79 cfs @ 0.25 hrs, Volume= 0.677 af
Outflow = 32.79 cfs @ 0.25 hrs, Volume= 0.677 af, Atten= 0%, Lag= 0.0 min
Primary = 32.79 cfs @ 0.25 hrs, Volume= 0.677 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.98' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=32.20 cfs @ 0.25 hrs HW=671.97' TW=669.73' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 32.20 cfs @ 6.79 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af
Outflow = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 2.29 cfs @ 0.25 hrs, Volume= 0.047 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.50' @ 0.28 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.90 cfs @ 0.25 hrs HW=672.46' TW=672.35' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 1.90 cfs @ 1.72 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Outflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
Primary = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.95' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=10.74 cfs @ 0.25 hrs HW=670.87' TW=670.60' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 10.74 cfs @ 3.08 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af
Outflow = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.39' @ 0.27 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.52 cfs @ 0.25 hrs HW=672.35' TW=672.21' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.52 cfs @ 2.01 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af
Outflow = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 5.94 cfs @ 0.25 hrs, Volume= 0.123 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.12' @ 0.26 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=5.52 cfs @ 0.25 hrs HW=672.11' TW=671.74' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 5.52 cfs @ 3.02 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Outflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
Primary = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.25' @ 0.27 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.27 cfs @ 0.25 hrs HW=672.21' TW=672.11' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.27 cfs @ 1.90 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.67" for 1-Year event
Inflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Outflow = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af, Atten= 0%, Lag= 0.0 min
Primary = 19.82 cfs @ 0.25 hrs, Volume= 0.409 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.14' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"**
			L= 166.5' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=17.91 cfs @ 0.25 hrs HW=670.10' TW=669.73' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 17.91 cfs @ 3.40 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af
Outflow = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af, Atten= 0%, Lag= 0.0 min
Primary = 7.50 cfs @ 0.25 hrs, Volume= 0.155 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.77' @ 0.27 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"**
			L= 108.6' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.67 cfs @ 0.25 hrs HW=671.74' TW=671.48' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 6.67 cfs @ 2.80 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af
Outflow = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min
Primary = 10.20 cfs @ 0.25 hrs, Volume= 0.211 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.52' @ 0.27 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"**
			L= 96.1' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=9.06 cfs @ 0.25 hrs HW=671.48' TW=671.19' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 9.06 cfs @ 3.11 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Outflow = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af, Atten= 0%, Lag= 0.0 min
Primary = 12.52 cfs @ 0.25 hrs, Volume= 0.259 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.25' @ 0.27 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.16 cfs @ 0.25 hrs HW=671.19' TW=670.87' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.16 cfs @ 3.42 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.45" for 1-Year event
Inflow = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af
Outflow = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 0.25 hrs, Volume= 0.004 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.07' @ 0.28 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.19 cfs @ 0.25 hrs HW=671.07' TW=670.68' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 0.19 cfs @ 2.26 fps)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.66" for 1-Year event
Inflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Outflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.93' @ 0.25 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.91 cfs @ 0.25 hrs HW=672.93' TW=672.11' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.91 cfs @ 3.80 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af
Outflow = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 1.55 cfs @ 0.25 hrs, Volume= 0.032 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.66' @ 0.27 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.19 cfs @ 0.25 hrs HW=671.58' TW=671.48' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.19 cfs @ 1.52 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.66" for 1-Year event
Inflow = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af
Outflow = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.01' @ 0.26 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.22 cfs @ 0.25 hrs HW=672.01' TW=671.19' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.22 cfs @ 3.18 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 0.65" for 1-Year event
Inflow = 67.55 cfs @ 0.25 hrs, Volume= 1.396 af
Outflow = 1.17 cfs @ 0.50 hrs, Volume= 1.393 af, Atten= 98%, Lag= 14.8 min
Primary = 1.17 cfs @ 0.50 hrs, Volume= 1.393 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 663.66' @ 0.50 hrs Surf.Area= 22,999 sf Storage= 95,877 cf (59,479 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 1,004.3 min calculated for 0.557 af (40% of inflow)
Center-of-Mass det. time= 567.3 min (582.3 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.17 cfs @ 0.50 hrs HW=663.66' (Free Discharge)
└**1=RCP_Round 48"** (Passes 1.17 cfs of 73.37 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Controls 0.00 cfs)
  └**5=Orifice/Grate** (Orifice Controls 1.17 cfs @ 8.94 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Outflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.79' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.16 cfs @ 0.25 hrs HW=670.57' TW=670.54' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Outlet Controls 2.16 cfs @ 1.27 fps)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.69" for 1-Year event
Inflow = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af
Outflow = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 0.25 hrs, Volume= 0.067 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.17' @ 0.26 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.83 cfs @ 0.25 hrs HW=671.15' TW=671.01' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Outlet Controls 2.83 cfs @ 2.34 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.57" for 1-Year event
Inflow = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af
Outflow = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min
Primary = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.76' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.34 cfs @ 0.25 hrs HW=670.68' TW=670.60' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 0.34 cfs @ 1.40 fps)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.45" for 1-Year event
Inflow = 1.93 cfs @ 0.25 hrs, Volume= 0.040 af
Outflow = 1.93 cfs @ 0.25 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
Primary = 1.93 cfs @ 0.25 hrs, Volume= 0.040 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.99' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=1.93 cfs @ 0.25 hrs HW=675.99' TW=671.97' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Barrel Controls 1.93 cfs @ 4.56 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.36 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.82"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.28 cfs @ 0.25 hrs, Volume= 0.047 af, Depth= 0.53"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.43 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.65"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.10 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.82"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.58 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 0.68"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.63"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.38 cfs @ 0.25 hrs, Volume= 0.029 af, Depth= 0.82"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 36.55 cfs @ 0.25 hrs, Volume= 0.755 af, Depth= 0.78"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af, Depth= 0.82"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.81 cfs @ 0.25 hrs, Volume= 0.017 af, Depth= 0.82"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.75 cfs @ 0.25 hrs, Volume= 0.016 af, Depth= 0.82"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.23 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 1.85 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 0.82"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 0.82"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.24 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af, Depth= 0.53"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 0.78"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 0.82"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af, Depth= 0.78"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 17.70 cfs @ 0.25 hrs, Volume= 0.366 af, Depth= 0.78"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.43 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.25 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.82"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.23 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 0.82"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 0.82"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 2-Year Duration=15.0 min, Inten=3.34 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af
Outflow = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af, Atten= 0%, Lag= 0.0 min
Primary = 4.22 cfs @ 0.25 hrs, Volume= 0.087 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.51' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.78 cfs @ 0.25 hrs HW=671.21' TW=670.84' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 3.78 cfs @ 2.83 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af
Outflow = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 5.09 cfs @ 0.25 hrs, Volume= 0.105 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.31' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.41 cfs @ 0.25 hrs HW=670.87' TW=670.82' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 2.41 cfs @ 1.09 fps)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af
Outflow = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min
Primary = 6.81 cfs @ 0.25 hrs, Volume= 0.141 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.15' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.84' TW=670.85' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af
Outflow = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af, Atten= 0%, Lag= 0.0 min
Primary = 5.19 cfs @ 0.25 hrs, Volume= 0.107 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.24' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.82' TW=670.84' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Outflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.96' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=20.75 cfs @ 0.25 hrs HW=670.87' TW=670.49' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 20.75 cfs @ 2.94 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af
Outflow = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 7.39 cfs @ 0.25 hrs, Volume= 0.153 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.06' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.85' TW=670.87' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 0.77" for 2-Year event
Inflow = 62.31 cfs @ 0.25 hrs, Volume= 1.287 af
Outflow = 62.31 cfs @ 0.25 hrs, Volume= 1.287 af, Atten= 0%, Lag= 0.0 min
Primary = 62.31 cfs @ 0.25 hrs, Volume= 1.287 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.11' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=62.31 cfs @ 0.25 hrs HW=670.11' TW=662.48' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 62.31 cfs @ 6.83 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af
Outflow = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min
Primary = 2.62 cfs @ 0.25 hrs, Volume= 0.054 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.73' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.33 cfs @ 0.25 hrs HW=671.62' TW=671.35' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.33 cfs @ 2.21 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af
Outflow = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af, Atten= 0%, Lag= 0.0 min
Primary = 15.78 cfs @ 0.25 hrs, Volume= 0.326 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.23' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.30 cfs @ 0.25 hrs HW=671.08' TW=670.87' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 12.30 cfs @ 2.62 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af
Outflow = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 0.25 hrs, Volume= 0.039 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.81' @ 0.29 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.51 cfs @ 0.25 hrs HW=672.74' TW=672.64' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Outlet Controls 1.51 cfs @ 1.57 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 0.76" for 2-Year event
Inflow = 38.84 cfs @ 0.25 hrs, Volume= 0.802 af
Outflow = 38.84 cfs @ 0.25 hrs, Volume= 0.802 af, Atten= 0%, Lag= 0.0 min
Primary = 38.84 cfs @ 0.25 hrs, Volume= 0.802 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.35' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=38.02 cfs @ 0.25 hrs HW=672.35' TW=670.11' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 38.02 cfs @ 6.89 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af
Outflow = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.72' @ 0.28 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.10 cfs @ 0.25 hrs HW=672.64' TW=672.55' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.10 cfs @ 1.61 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Outflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af, Atten= 0%, Lag= 0.0 min
Primary = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.46' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.33 cfs @ 0.25 hrs HW=671.28' TW=671.08' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.33 cfs @ 2.71 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af
Outflow = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af, Atten= 0%, Lag= 0.0 min
Primary = 3.46 cfs @ 0.25 hrs, Volume= 0.072 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.62' @ 0.28 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.86 cfs @ 0.25 hrs HW=672.55' TW=672.42' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.86 cfs @ 1.97 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af
Outflow = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af, Atten= 0%, Lag= 0.0 min
Primary = 7.03 cfs @ 0.25 hrs, Volume= 0.145 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.38' @ 0.28 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.35 cfs @ 0.25 hrs HW=672.33' TW=671.99' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 6.35 cfs @ 2.94 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af
Outflow = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min
Primary = 4.70 cfs @ 0.25 hrs, Volume= 0.097 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.48' @ 0.28 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.58 cfs @ 0.25 hrs HW=672.42' TW=672.33' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.58 cfs @ 1.76 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.80" for 2-Year event
Inflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Outflow = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af, Atten= 0%, Lag= 0.0 min
Primary = 23.47 cfs @ 0.25 hrs, Volume= 0.485 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 670.54' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"**
			L= 166.5' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=20.95 cfs @ 0.25 hrs HW=670.49' TW=670.11' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 20.95 cfs @ 3.47 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af
Outflow = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min
Primary = 8.88 cfs @ 0.25 hrs, Volume= 0.183 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.10' @ 0.29 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"**
			L= 108.6' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=7.39 cfs @ 0.25 hrs HW=671.99' TW=671.79' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 7.39 cfs @ 2.58 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af
Outflow = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af, Atten= 0%, Lag= 0.0 min
Primary = 12.08 cfs @ 0.25 hrs, Volume= 0.250 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.93' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"**
			L= 96.1' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=9.97 cfs @ 0.25 hrs HW=671.79' TW=671.55' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 9.97 cfs @ 2.88 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Outflow = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af, Atten= 0%, Lag= 0.0 min
Primary = 14.83 cfs @ 0.25 hrs, Volume= 0.306 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.72' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.15 cfs @ 0.25 hrs HW=671.55' TW=671.28' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 12.15 cfs @ 3.13 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.53" for 2-Year event
Inflow = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af
Outflow = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 0.25 hrs, Volume= 0.005 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.28' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 0.25 hrs HW=671.13' TW=670.99' (Dynamic Tailwater)
1=RCP_Round 12" (Outlet Controls 0.17 cfs @ 1.48 fps)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.78" for 2-Year event
Inflow = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af
Outflow = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
Primary = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.04' @ 0.26 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.23 cfs @ 0.25 hrs HW=673.04' TW=672.33' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.23 cfs @ 3.67 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af
Outflow = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 1.84 cfs @ 0.25 hrs, Volume= 0.038 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.08' @ 0.29 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 0.25 hrs HW=671.93' TW=671.79' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.43 cfs @ 1.82 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.78" for 2-Year event
Inflow = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af
Outflow = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 1.51 cfs @ 0.25 hrs, Volume= 0.031 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.18' @ 0.28 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"**
			L= 116.4' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.38 cfs @ 0.25 hrs HW=672.15' TW=671.55' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.38 cfs @ 2.86 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 0.77" for 2-Year event
Inflow = 80.01 cfs @ 0.25 hrs, Volume= 1.653 af
Outflow = 1.76 cfs @ 0.49 hrs, Volume= 1.650 af, Atten= 98%, Lag= 14.7 min
Primary = 1.76 cfs @ 0.49 hrs, Volume= 1.650 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.12' @ 0.49 hrs Surf.Area= 25,027 sf Storage= 106,910 cf (70,512 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 989.3 min calculated for 0.814 af (49% of inflow)
Center-of-Mass det. time= 612.8 min (627.8 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.75 cfs @ 0.49 hrs HW=664.12' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 1.75 cfs of 85.92 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Orifice Controls 0.51 cfs @ 1.09 fps)
  └─**5=Orifice/Grate** (Orifice Controls 1.25 cfs @ 9.52 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af
Outflow = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min
Primary = 4.66 cfs @ 0.25 hrs, Volume= 0.096 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.34' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.84' TW=670.87' (Dynamic Tailwater)
└─**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.82" for 2-Year event
Inflow = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af
Outflow = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 3.86 cfs @ 0.25 hrs, Volume= 0.080 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.61' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.18 cfs @ 0.25 hrs HW=671.35' TW=671.21' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.18 cfs @ 1.80 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.68" for 2-Year event
Inflow = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af
Outflow = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.24' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=670.99' TW=671.08' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.53" for 2-Year event
Inflow = 2.28 cfs @ 0.25 hrs, Volume= 0.047 af
Outflow = 2.28 cfs @ 0.25 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 2.28 cfs @ 0.25 hrs, Volume= 0.047 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.03' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=2.28 cfs @ 0.25 hrs HW=676.03' TW=672.35' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Barrel Controls 2.28 cfs @ 4.77 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.42 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.97"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.70 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 0.63"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.97"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.36 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.77"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.11 cfs @ 0.25 hrs, Volume= 0.002 af, Depth= 0.97"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 0.81"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.41 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.74"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.63 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 0.97"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 43.12 cfs @ 0.25 hrs, Volume= 0.891 af, Depth= 0.92"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af, Depth= 0.97"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 0.97"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af, Depth= 0.97"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.18 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 0.97"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.61 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 0.97"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.63"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af, Depth= 0.93"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 0.97"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 0.92"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 20.88 cfs @ 0.25 hrs, Volume= 0.431 af, Depth= 0.92"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.51 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.97"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.47 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.44 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.97"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.46 cfs @ 0.25 hrs, Volume= 0.030 af, Depth= 0.97"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 1.92 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 0.97"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 5-Year Duration=15.0 min, Inten=3.94 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af
Outflow = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 4.98 cfs @ 0.25 hrs, Volume= 0.103 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.37' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.90 cfs @ 0.25 hrs HW=671.55' TW=671.29' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 3.90 cfs @ 2.38 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af
Outflow = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 6.00 cfs @ 0.25 hrs, Volume= 0.124 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.10' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.41' TW=671.48' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Outflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min
Primary = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.88' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.49' TW=671.50' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.12 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"**
			L= 137.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.48' TW=671.49' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Outflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af, Atten= 0%, Lag= 0.0 min
Primary = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.62' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"**
			L= 22.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=24.69 cfs @ 0.25 hrs HW=671.50' TW=670.97' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 24.69 cfs @ 3.49 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af
Outflow = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min
Primary = 8.71 cfs @ 0.25 hrs, Volume= 0.180 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.76' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.50' TW=671.50' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 0.91" for 5-Year event
Inflow = 73.50 cfs @ 0.25 hrs, Volume= 1.519 af
Outflow = 73.50 cfs @ 0.25 hrs, Volume= 1.519 af, Atten= 0%, Lag= 0.0 min
Primary = 73.50 cfs @ 0.25 hrs, Volume= 1.519 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.55' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=73.50 cfs @ 0.25 hrs HW=670.55' TW=662.83' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 73.50 cfs @ 7.14 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Outflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.59' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.29 cfs @ 0.25 hrs HW=671.87' TW=671.71' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 2.29 cfs @ 1.74 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af
Outflow = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af, Atten= 0%, Lag= 0.0 min
Primary = 18.61 cfs @ 0.25 hrs, Volume= 0.385 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.01' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.90 cfs @ 0.25 hrs HW=671.82' TW=671.50' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 14.90 cfs @ 3.04 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.24 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.34' @ 0.34 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.52 cfs @ 0.25 hrs HW=672.95' TW=672.88' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.52 cfs @ 1.35 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 0.89" for 5-Year event
Inflow = 45.81 cfs @ 0.25 hrs, Volume= 0.947 af
Outflow = 45.81 cfs @ 0.25 hrs, Volume= 0.947 af, Atten= 0%, Lag= 0.0 min
Primary = 45.81 cfs @ 0.25 hrs, Volume= 0.947 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.84' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=44.68 cfs @ 0.25 hrs HW=672.83' TW=670.55' (Dynamic Tailwater)
1=RCP_Round 36" (Outlet Controls 44.68 cfs @ 6.98 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af
Outflow = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 3.20 cfs @ 0.25 hrs, Volume= 0.066 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.29' @ 0.34 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.88 cfs @ 0.25 hrs HW=672.88' TW=672.83' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 1.88 cfs @ 1.22 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Outflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af, Atten= 0%, Lag= 0.0 min
Primary = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.31' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.69 cfs @ 0.25 hrs HW=672.00' TW=671.82' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.69 cfs @ 2.38 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af
Outflow = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
Primary = 4.08 cfs @ 0.25 hrs, Volume= 0.084 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.23' @ 0.33 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.26 cfs @ 0.25 hrs HW=672.83' TW=672.68' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.26 cfs @ 1.85 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af
Outflow = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af, Atten= 0%, Lag= 0.0 min
Primary = 8.29 cfs @ 0.25 hrs, Volume= 0.171 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.05' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.95 cfs @ 0.25 hrs HW=672.63' TW=672.35' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 6.95 cfs @ 2.71 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.54 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.12' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.39 cfs @ 0.25 hrs HW=672.68' TW=672.63' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 3.39 cfs @ 1.41 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 0.94" for 5-Year event
Inflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Outflow = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af, Atten= 0%, Lag= 0.0 min
Primary = 27.69 cfs @ 0.25 hrs, Volume= 0.572 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.04' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=24.47 cfs @ 0.25 hrs HW=670.97' TW=670.55' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 24.47 cfs @ 3.61 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af
Outflow = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min
Primary = 10.48 cfs @ 0.25 hrs, Volume= 0.216 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.87' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=6.89 cfs @ 0.25 hrs HW=672.35' TW=672.23' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 6.89 cfs @ 1.97 fps)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 0.96" for 5-Year event
Inflow = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af
Outflow = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af, Atten= 0%, Lag= 0.0 min
Primary = 14.25 cfs @ 0.25 hrs, Volume= 0.294 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.77' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=8.22 cfs @ 0.25 hrs HW=672.23' TW=672.13' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 8.22 cfs @ 1.96 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 0.95" for 5-Year event
Inflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Outflow = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af, Atten= 0%, Lag= 0.0 min
Primary = 17.49 cfs @ 0.25 hrs, Volume= 0.361 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.60' @ 0.28 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=10.26 cfs @ 0.25 hrs HW=672.13' TW=672.00' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 10.26 cfs @ 2.19 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.63" for 5-Year event
Inflow = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af
Outflow = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 0.25 hrs, Volume= 0.006 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.04' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.45' TW=671.63' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 0.93" for 5-Year event
Inflow = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af
Outflow = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 2.75 cfs @ 0.25 hrs, Volume= 0.057 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.31' @ 0.32 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.54 cfs @ 0.25 hrs HW=673.19' TW=672.63' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.54 cfs @ 3.39 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af
Outflow = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.98' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.59 cfs @ 0.25 hrs HW=672.41' TW=672.23' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.59 cfs @ 2.02 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 0.92" for 5-Year event
Inflow = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af
Outflow = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 1.78 cfs @ 0.25 hrs, Volume= 0.037 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.88' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"**
			L= 116.4' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.34 cfs @ 0.25 hrs HW=672.40' TW=672.13' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.34 cfs @ 2.03 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 0.91" for 5-Year event
Inflow = 94.38 cfs @ 0.25 hrs, Volume= 1.950 af
Outflow = 6.60 cfs @ 0.48 hrs, Volume= 1.947 af, Atten= 93%, Lag= 14.0 min
Primary = 6.60 cfs @ 0.48 hrs, Volume= 1.947 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.55' @ 0.48 hrs Surf.Area= 26,270 sf Storage= 118,106 cf (81,709 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 894.0 min calculated for 1.111 af (57% of inflow)
Center-of-Mass det. time= 569.5 min (584.5 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=6.59 cfs @ 0.48 hrs HW=664.55' (Free Discharge)
└─**1=RCP_Round 48"** (Passes 6.59 cfs of 96.67 cfs potential flow)
  ├─**2=Orifice/Grate** (Controls 0.00 cfs)
  ├─**3=Orifice/Grate** (Controls 0.00 cfs)
  ├─**4=Orifice/Grate** (Orifice Controls 5.28 cfs @ 2.39 fps)
  └─**5=Orifice/Grate** (Orifice Controls 1.31 cfs @ 10.03 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.49 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.14' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.29' TW=671.41' (Dynamic Tailwater)
└─**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 0.97" for 5-Year event
Inflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.51' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.41 cfs @ 0.25 hrs HW=671.71' TW=671.55' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.41 cfs @ 1.93 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.80" for 5-Year event
Inflow = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af
Outflow = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 0.25 hrs, Volume= 0.015 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.03' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.63' TW=671.82' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.63" for 5-Year event
Inflow = 2.70 cfs @ 0.25 hrs, Volume= 0.056 af
Outflow = 2.70 cfs @ 0.25 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 2.70 cfs @ 0.25 hrs, Volume= 0.056 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.08' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=2.70 cfs @ 0.25 hrs HW=676.08' TW=672.83' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Barrel Controls 2.70 cfs @ 4.98 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.47 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.07"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Depth= 0.70"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.07"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.85"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.13 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.07"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.76 cfs @ 0.25 hrs, Volume= 0.016 af, Depth= 0.90"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.45 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.82"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.07"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 47.82 cfs @ 0.25 hrs, Volume= 0.988 af, Depth= 1.02"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af, Depth= 1.07"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.06 cfs @ 0.25 hrs, Volume= 0.022 af, Depth= 1.07"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 0.98 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 1.07"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.42 cfs @ 0.25 hrs, Volume= 0.050 af, Depth= 1.07"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 1.79 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.07"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Depth= 0.70"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af, Depth= 1.03"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af, Depth= 1.07"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.02"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 23.16 cfs @ 0.25 hrs, Volume= 0.479 af, Depth= 1.02"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.07"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.63 cfs @ 0.25 hrs, Volume= 0.034 af, Depth= 1.07"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.49 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.07"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.62 cfs @ 0.25 hrs, Volume= 0.033 af, Depth= 1.07"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.12 cfs @ 0.25 hrs, Volume= 0.044 af, Depth= 1.07"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 10-Year Duration=15.0 min, Inten=4.37 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af
Outflow = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min
Primary = 5.53 cfs @ 0.25 hrs, Volume= 0.114 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.13' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.09 cfs @ 0.25 hrs HW=672.03' TW=671.74' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.09 cfs @ 2.32 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af
Outflow = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 6.66 cfs @ 0.25 hrs, Volume= 0.138 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.81' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.91' TW=671.99' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af
Outflow = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min
Primary = 8.91 cfs @ 0.25 hrs, Volume= 0.184 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.55' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.99' TW=672.01' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af
Outflow = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min
Primary = 6.78 cfs @ 0.25 hrs, Volume= 0.140 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.71' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.99' TW=671.99' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Outflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.22' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=26.23 cfs @ 0.25 hrs HW=672.02' TW=671.42' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 26.23 cfs @ 3.71 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.05" for 10-Year event
Inflow = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af
Outflow = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
Primary = 9.66 cfs @ 0.25 hrs, Volume= 0.200 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.40' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.01' TW=672.02' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 1.01" for 10-Year event
Inflow = 81.52 cfs @ 0.25 hrs, Volume= 1.684 af
Outflow = 81.52 cfs @ 0.25 hrs, Volume= 1.684 af, Atten= 0%, Lag= 0.0 min
Primary = 81.52 cfs @ 0.25 hrs, Volume= 1.684 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 670.89' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=81.52 cfs @ 0.25 hrs HW=670.89' TW=663.06' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 81.52 cfs @ 7.34 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Outflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.39' @ 0.34 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.25 cfs @ 0.25 hrs HW=672.11' TW=672.08' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 1.25 cfs @ 0.80 fps)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af
Outflow = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af, Atten= 0%, Lag= 0.0 min
Primary = 20.64 cfs @ 0.25 hrs, Volume= 0.427 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.71' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=16.27 cfs @ 0.25 hrs HW=672.41' TW=672.02' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 16.27 cfs @ 3.32 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af
Outflow = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 2.48 cfs @ 0.25 hrs, Volume= 0.051 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.27' @ 0.35 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.35 cfs @ 0.25 hrs HW=673.18' TW=673.13' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Inlet Controls 1.35 cfs @ 1.10 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 0.99" for 10-Year event
Inflow = 50.81 cfs @ 0.25 hrs, Volume= 1.050 af
Outflow = 50.81 cfs @ 0.25 hrs, Volume= 1.050 af, Atten= 0%, Lag= 0.0 min
Primary = 50.81 cfs @ 0.25 hrs, Volume= 1.050 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.52' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=49.53 cfs @ 0.25 hrs HW=673.51' TW=670.89' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 49.53 cfs @ 7.01 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af
Outflow = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af, Atten= 0%, Lag= 0.0 min
Primary = 3.55 cfs @ 0.25 hrs, Volume= 0.073 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.21' @ 0.34 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.94 cfs @ 0.25 hrs HW=673.13' TW=673.08' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 1.94 cfs @ 1.10 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Outflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min
Primary = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.07' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.01 cfs @ 0.25 hrs HW=672.62' TW=672.41' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 13.01 cfs @ 2.65 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.53 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.13' @ 0.33 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.34 cfs @ 0.25 hrs HW=673.08' TW=672.92' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 3.34 cfs @ 1.89 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af
Outflow = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af, Atten= 0%, Lag= 0.0 min
Primary = 9.20 cfs @ 0.25 hrs, Volume= 0.190 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.92' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=6.41 cfs @ 0.25 hrs HW=672.90' TW=672.71' (Dynamic Tailwater)
1=RCP_Round 24" (Outlet Controls 6.41 cfs @ 2.23 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af
Outflow = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 6.14 cfs @ 0.25 hrs, Volume= 0.127 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.01' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=2.46 cfs @ 0.25 hrs HW=672.92' TW=672.90' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 2.46 cfs @ 0.78 fps)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.04" for 10-Year event
Inflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Outflow = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af, Atten= 0%, Lag= 0.0 min
Primary = 30.71 cfs @ 0.25 hrs, Volume= 0.635 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 671.51' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=27.40 cfs @ 0.25 hrs HW=671.42' TW=670.89' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 27.40 cfs @ 3.88 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af
Outflow = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af, Atten= 0%, Lag= 0.0 min
Primary = 11.62 cfs @ 0.25 hrs, Volume= 0.240 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.73' @ 0.31 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.71' TW=672.79' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af
Outflow = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min
Primary = 15.81 cfs @ 0.25 hrs, Volume= 0.327 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.62' @ 0.30 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.79' TW=672.80' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.06" for 10-Year event
Inflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Outflow = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min
Primary = 19.40 cfs @ 0.25 hrs, Volume= 0.401 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.41' @ 0.29 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=12.02 cfs @ 0.25 hrs HW=672.80' TW=672.62' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 12.02 cfs @ 2.45 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.70" for 10-Year event
Inflow = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af
Outflow = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 0.25 hrs, Volume= 0.006 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.74' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.93' TW=672.18' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.03" for 10-Year event
Inflow = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af
Outflow = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min
Primary = 3.05 cfs @ 0.25 hrs, Volume= 0.063 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.09' @ 0.32 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=2.66 cfs @ 0.25 hrs HW=673.33' TW=672.90' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 2.66 cfs @ 3.03 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af
Outflow = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 2.40 cfs @ 0.25 hrs, Volume= 0.050 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.85' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.11 cfs @ 0.25 hrs HW=672.88' TW=672.79' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.11 cfs @ 1.42 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.02" for 10-Year event
Inflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Outflow = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min
Primary = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.74' @ 0.30 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"**
			L= 116.4' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.21 cfs @ 0.25 hrs HW=672.99' TW=672.80' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.21 cfs @ 1.54 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 1.01" for 10-Year event
Inflow = 104.68 cfs @ 0.25 hrs, Volume= 2.163 af
Outflow = 10.95 cfs @ 0.47 hrs, Volume= 2.160 af, Atten= 90%, Lag= 13.4 min
Primary = 10.95 cfs @ 0.47 hrs, Volume= 2.160 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 664.82' @ 0.47 hrs Surf.Area= 27,054 sf Storage= 125,307 cf (88,910 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 813.8 min calculated for 1.324 af (61% of inflow)
Center-of-Mass det. time= 527.1 min (542.1 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=10.93 cfs @ 0.47 hrs HW=664.82' (Free Discharge)
└**1=RCP_Round 48"** (Passes 10.93 cfs of 101.66 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 9.58 cfs @ 2.91 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.35 cfs @ 10.34 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.09 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.86' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=671.74' TW=671.91' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.07" for 10-Year event
Inflow = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af
Outflow = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af, Atten= 0%, Lag= 0.0 min
Primary = 5.06 cfs @ 0.25 hrs, Volume= 0.104 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.30' @ 0.33 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.97 cfs @ 0.25 hrs HW=672.08' TW=672.03' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Inlet Controls 1.97 cfs @ 1.12 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.89" for 10-Year event
Inflow = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af
Outflow = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 0.25 hrs, Volume= 0.016 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.74' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.18' TW=672.41' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.70" for 10-Year event
Inflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Outflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
Primary = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.11' @ 0.25 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=2.99 cfs @ 0.25 hrs HW=676.11' TW=673.51' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Barrel Controls 2.99 cfs @ 5.12 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.53 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.20"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.35 cfs @ 0.25 hrs, Volume= 0.069 af, Depth= 0.78"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.20"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.45 cfs @ 0.25 hrs, Volume= 0.009 af, Depth= 0.95"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.14 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.20"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.85 cfs @ 0.25 hrs, Volume= 0.017 af, Depth= 1.00"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.50 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 0.92"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.02 cfs @ 0.25 hrs, Volume= 0.042 af, Depth= 1.20"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 53.51 cfs @ 0.25 hrs, Volume= 1.106 af, Depth= 1.14"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af, Depth= 1.20"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.19 cfs @ 0.25 hrs, Volume= 0.025 af, Depth= 1.20"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.10 cfs @ 0.25 hrs, Volume= 0.023 af, Depth= 1.20"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.71 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.20"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.00 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.20"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Depth= 0.78"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Depth= 1.15"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.20"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Depth= 1.14"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 25.92 cfs @ 0.25 hrs, Volume= 0.535 af, Depth= 1.14"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.20"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.83 cfs @ 0.25 hrs, Volume= 0.038 af, Depth= 1.20"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.55 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.20"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.81 cfs @ 0.25 hrs, Volume= 0.037 af, Depth= 1.20"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Depth= 1.20"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 25-Year Duration=15.0 min, Inten=4.89 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af
Outflow = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 6.19 cfs @ 0.25 hrs, Volume= 0.128 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.15' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.54 cfs @ 0.25 hrs HW=672.73' TW=672.38' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.54 cfs @ 2.57 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af
Outflow = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af, Atten= 0%, Lag= 0.0 min
Primary = 7.45 cfs @ 0.25 hrs, Volume= 0.154 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.74' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.58' TW=672.67' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af
Outflow = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af, Atten= 0%, Lag= 0.0 min
Primary = 9.97 cfs @ 0.25 hrs, Volume= 0.206 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.44' @ 0.29 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.73' TW=672.77' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af
Outflow = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
Primary = 7.59 cfs @ 0.25 hrs, Volume= 0.157 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.61' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"**
			L= 137.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.67' TW=672.73' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Outflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af, Atten= 0%, Lag= 0.0 min
Primary = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.01' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"**
			L= 22.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=30.15 cfs @ 0.25 hrs HW=672.79' TW=672.01' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 30.15 cfs @ 4.27 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af
Outflow = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af, Atten= 0%, Lag= 0.0 min
Primary = 10.81 cfs @ 0.25 hrs, Volume= 0.223 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.24' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.77' TW=672.79' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 1.13" for 25-Year event
Inflow = 91.22 cfs @ 0.25 hrs, Volume= 1.885 af
Outflow = 91.22 cfs @ 0.25 hrs, Volume= 1.885 af, Atten= 0%, Lag= 0.0 min
Primary = 91.22 cfs @ 0.25 hrs, Volume= 1.885 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.34' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=91.22 cfs @ 0.25 hrs HW=671.34' TW=663.33' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 91.22 cfs @ 7.59 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af
Outflow = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 3.83 cfs @ 0.25 hrs, Volume= 0.079 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.48' @ 0.33 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.74' TW=672.82' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af
Outflow = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af, Atten= 0%, Lag= 0.0 min
Primary = 23.10 cfs @ 0.25 hrs, Volume= 0.477 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.61' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=18.08 cfs @ 0.25 hrs HW=673.27' TW=672.79' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 18.08 cfs @ 3.68 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af
Outflow = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 2.78 cfs @ 0.25 hrs, Volume= 0.057 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 675.62' @ 0.35 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.09 cfs @ 0.25 hrs HW=673.54' TW=673.50' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Inlet Controls 1.09 cfs @ 0.89 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 1.11" for 25-Year event
Inflow = 56.86 cfs @ 0.25 hrs, Volume= 1.175 af
Outflow = 56.86 cfs @ 0.25 hrs, Volume= 1.175 af, Atten= 0%, Lag= 0.0 min
Primary = 56.86 cfs @ 0.25 hrs, Volume= 1.175 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.65' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=55.32 cfs @ 0.25 hrs HW=674.62' TW=671.34' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 55.32 cfs @ 7.83 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Outflow = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af, Atten= 0%, Lag= 0.0 min
Primary = 3.97 cfs @ 0.25 hrs, Volume= 0.082 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.53' @ 0.34 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=1.21 cfs @ 0.25 hrs HW=673.50' TW=673.48' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 1.21 cfs @ 0.69 fps)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Outflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.07' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.00 cfs @ 0.25 hrs HW=673.52' TW=673.27' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 14.00 cfs @ 2.85 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af
Outflow = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 5.07 cfs @ 0.25 hrs, Volume= 0.105 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.44' @ 0.33 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.54 cfs @ 0.25 hrs HW=673.48' TW=673.39' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 2.54 cfs @ 1.44 fps)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af
Outflow = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af, Atten= 0%, Lag= 0.0 min
Primary = 10.29 cfs @ 0.25 hrs, Volume= 0.213 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.17' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.66 cfs @ 0.25 hrs HW=673.58' TW=673.52' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 3.66 cfs @ 1.17 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af
Outflow = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 6.88 cfs @ 0.25 hrs, Volume= 0.142 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.28' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.39' TW=673.58' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.17" for 25-Year event
Inflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Outflow = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af, Atten= 0%, Lag= 0.0 min
Primary = 34.36 cfs @ 0.25 hrs, Volume= 0.710 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.13' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=30.39 cfs @ 0.25 hrs HW=672.01' TW=671.34' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 30.39 cfs @ 4.30 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af
Outflow = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af, Atten= 0%, Lag= 0.0 min
Primary = 13.00 cfs @ 0.25 hrs, Volume= 0.269 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.91' @ 0.30 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.52' TW=673.70' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.19" for 25-Year event
Inflow = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af
Outflow = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af, Atten= 0%, Lag= 0.0 min
Primary = 17.69 cfs @ 0.25 hrs, Volume= 0.365 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.77' @ 0.29 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=2.26 cfs @ 0.25 hrs HW=673.70' TW=673.69' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 2.26 cfs @ 0.46 fps)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.18" for 25-Year event
Inflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Outflow = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 21.71 cfs @ 0.25 hrs, Volume= 0.449 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.49' @ 0.29 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=11.72 cfs @ 0.25 hrs HW=673.69' TW=673.52' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 11.72 cfs @ 2.39 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.78" for 25-Year event
Inflow = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af
Outflow = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 0.25 hrs, Volume= 0.007 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.65' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.60' TW=672.96' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.15" for 25-Year event
Inflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Outflow = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min
Primary = 3.42 cfs @ 0.25 hrs, Volume= 0.071 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.38' @ 0.32 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.04 cfs @ 0.25 hrs HW=673.62' TW=673.58' (Dynamic Tailwater)
1=RCP_Round 15" (Outlet Controls 1.04 cfs @ 0.94 fps)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af
Outflow = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min
Primary = 2.69 cfs @ 0.25 hrs, Volume= 0.056 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.08' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.20 cfs @ 0.25 hrs HW=673.80' TW=673.70' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.20 cfs @ 1.53 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.14" for 25-Year event
Inflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Outflow = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 2.21 cfs @ 0.25 hrs, Volume= 0.046 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.92' @ 0.29 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"**
			L= 116.4' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.35 cfs @ 0.25 hrs HW=673.93' TW=673.69' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.35 cfs @ 1.72 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 1.13" for 25-Year event
Inflow = 117.14 cfs @ 0.25 hrs, Volume= 2.420 af
Outflow = 16.61 cfs @ 0.46 hrs, Volume= 2.417 af, Atten= 86%, Lag= 12.9 min
Primary = 16.61 cfs @ 0.46 hrs, Volume= 2.417 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 665.12' @ 0.46 hrs Surf.Area= 27,921 sf Storage= 133,458 cf (97,060 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 720.3 min calculated for 1.581 af (65% of inflow)
Center-of-Mass det. time= 480.9 min (495.9 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=16.60 cfs @ 0.46 hrs HW=665.12' (Free Discharge)
└**1=RCP_Round 48"** (Passes 16.60 cfs of 106.86 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 15.20 cfs @ 3.40 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.40 cfs @ 10.67 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af
Outflow = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min
Primary = 6.82 cfs @ 0.25 hrs, Volume= 0.141 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.80' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.38' TW=672.58' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.20" for 25-Year event
Inflow = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af
Outflow = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 5.66 cfs @ 0.25 hrs, Volume= 0.117 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.36' @ 0.33 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.52 cfs @ 0.25 hrs HW=672.82' TW=672.73' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Inlet Controls 2.52 cfs @ 1.42 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 0.99" for 25-Year event
Inflow = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af
Outflow = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 0.25 hrs, Volume= 0.018 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.65' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.96' TW=673.27' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.78" for 25-Year event
Inflow = 3.35 cfs @ 0.25 hrs, Volume= 0.069 af
Outflow = 3.35 cfs @ 0.25 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min
Primary = 3.35 cfs @ 0.25 hrs, Volume= 0.069 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.16' @ 0.26 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=3.01 cfs @ 0.25 hrs HW=676.14' TW=674.62' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 3.01 cfs @ 4.74 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.57 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.29"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.60 cfs @ 0.25 hrs, Volume= 0.074 af, Depth= 0.84"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 1.29"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.48 cfs @ 0.25 hrs, Volume= 0.010 af, Depth= 1.03"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.15 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.29"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.91 cfs @ 0.25 hrs, Volume= 0.019 af, Depth= 1.08"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.54 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 0.99"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.18 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 1.29"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 57.67 cfs @ 0.25 hrs, Volume= 1.192 af, Depth= 1.23"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Depth= 1.29"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.28 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 1.29"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.19 cfs @ 0.25 hrs, Volume= 0.025 af, Depth= 1.29"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 2.92 cfs @ 0.25 hrs, Volume= 0.060 af, Depth= 1.29"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.16 cfs @ 0.25 hrs, Volume= 0.045 af, Depth= 1.29"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.84"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af, Depth= 1.24"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af, Depth= 1.29"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Depth= 1.23"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 27.93 cfs @ 0.25 hrs, Volume= 0.577 af, Depth= 1.23"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.68 cfs @ 0.25 hrs, Volume= 0.014 af, Depth= 1.29"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 1.97 cfs @ 0.25 hrs, Volume= 0.041 af, Depth= 1.29"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.59 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.29"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 1.95 cfs @ 0.25 hrs, Volume= 0.040 af, Depth= 1.29"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.56 cfs @ 0.25 hrs, Volume= 0.053 af, Depth= 1.29"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 50-Year Duration=15.0 min, Inten=5.27 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af
Outflow = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 6.67 cfs @ 0.25 hrs, Volume= 0.138 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.11' @ 0.33 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=4.91 cfs @ 0.25 hrs HW=673.29' TW=672.87' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 4.91 cfs @ 2.78 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Outflow = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min
Primary = 8.03 cfs @ 0.25 hrs, Volume= 0.166 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.67' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.12' TW=673.28' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af
Outflow = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af, Atten= 0%, Lag= 0.0 min
Primary = 10.74 cfs @ 0.25 hrs, Volume= 0.222 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.30' @ 0.29 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"**
			L= 54.3' RCP, rounded edge headwall, Ke= 0.100
			Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.32' TW=673.36' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af
Outflow = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af, Atten= 0%, Lag= 0.0 min
Primary = 8.18 cfs @ 0.25 hrs, Volume= 0.169 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.52' @ 0.30 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"**
			L= 137.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.28' TW=673.32' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Outflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af, Atten= 0%, Lag= 0.0 min
Primary = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 673.81' @ 0.27 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"**
			L= 22.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=31.88 cfs @ 0.25 hrs HW=673.39' TW=672.52' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 31.88 cfs @ 4.51 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.27" for 50-Year event
Inflow = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af
Outflow = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af, Atten= 0%, Lag= 0.0 min
Primary = 11.65 cfs @ 0.25 hrs, Volume= 0.241 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.07' @ 0.28 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.36' TW=673.39' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 1.22" for 50-Year event
Inflow = 98.31 cfs @ 0.25 hrs, Volume= 2.031 af
Outflow = 98.31 cfs @ 0.25 hrs, Volume= 2.031 af, Atten= 0%, Lag= 0.0 min
Primary = 98.31 cfs @ 0.25 hrs, Volume= 2.031 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 671.88' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=98.31 cfs @ 0.25 hrs HW=671.88' TW=663.52' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 98.31 cfs @ 7.82 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af
Outflow = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af, Atten= 0%, Lag= 0.0 min
Primary = 4.13 cfs @ 0.25 hrs, Volume= 0.085 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.38' @ 0.35 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.31' TW=673.41' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af
Outflow = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af, Atten= 0%, Lag= 0.0 min
Primary = 24.90 cfs @ 0.25 hrs, Volume= 0.514 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.53' @ 0.28 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=19.32 cfs @ 0.25 hrs HW=673.94' TW=673.39' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 19.32 cfs @ 3.94 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Outflow = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
Primary = 2.99 cfs @ 0.25 hrs, Volume= 0.062 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 676.67' @ 0.35 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.55 cfs @ 0.25 hrs HW=673.86' TW=673.85' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Inlet Controls 0.55 cfs @ 0.45 fps)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 1.19" for 50-Year event
Inflow = 61.28 cfs @ 0.25 hrs, Volume= 1.266 af
Outflow = 61.28 cfs @ 0.25 hrs, Volume= 1.266 af, Atten= 0%, Lag= 0.0 min
Primary = 61.28 cfs @ 0.25 hrs, Volume= 1.266 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.66' @ 0.26 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=58.55 cfs @ 0.25 hrs HW=675.56' TW=671.88' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 58.55 cfs @ 8.28 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af
Outflow = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min
Primary = 4.28 cfs @ 0.25 hrs, Volume= 0.088 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.57' @ 0.34 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.85' TW=673.95' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Outflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af, Atten= 0%, Lag= 0.0 min
Primary = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.04' @ 0.29 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.07 cfs @ 0.25 hrs HW=674.23' TW=673.94' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 15.07 cfs @ 3.07 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af
Outflow = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
Primary = 5.46 cfs @ 0.25 hrs, Volume= 0.113 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.47' @ 0.33 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.95' TW=674.02' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.27" for 50-Year event
Inflow = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af
Outflow = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af, Atten= 0%, Lag= 0.0 min
Primary = 11.09 cfs @ 0.25 hrs, Volume= 0.229 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.16' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=4.00 cfs @ 0.25 hrs HW=674.27' TW=674.20' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 4.00 cfs @ 1.27 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af
Outflow = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min
Primary = 7.41 cfs @ 0.25 hrs, Volume= 0.153 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.28' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.02' TW=674.27' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.26" for 50-Year event
Inflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Outflow = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af, Atten= 0%, Lag= 0.0 min
Primary = 37.03 cfs @ 0.25 hrs, Volume= 0.765 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 672.79' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=29.72 cfs @ 0.25 hrs HW=672.52' TW=671.88' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 29.72 cfs @ 4.20 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af
Outflow = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af, Atten= 0%, Lag= 0.0 min
Primary = 14.01 cfs @ 0.25 hrs, Volume= 0.290 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.85' @ 0.31 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.20' TW=674.42' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af
Outflow = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af, Atten= 0%, Lag= 0.0 min
Primary = 19.06 cfs @ 0.25 hrs, Volume= 0.394 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.69' @ 0.30 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.42' TW=674.47' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.28" for 50-Year event
Inflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Outflow = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af, Atten= 0%, Lag= 0.0 min
Primary = 23.39 cfs @ 0.25 hrs, Volume= 0.483 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.49' @ 0.30 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=13.82 cfs @ 0.25 hrs HW=674.47' TW=674.23' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 13.82 cfs @ 2.82 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.84" for 50-Year event
Inflow = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af
Outflow = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
Primary = 0.37 cfs @ 0.25 hrs, Volume= 0.008 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.57' @ 0.30 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.20' TW=673.58' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.24" for 50-Year event
Inflow = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af
Outflow = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af, Atten= 0%, Lag= 0.0 min
Primary = 3.68 cfs @ 0.25 hrs, Volume= 0.076 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.40' @ 0.32 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.25' TW=674.27' (Dynamic Tailwater)
1=RCP_Round 15" (Controls 0.00 cfs)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af
Outflow = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af, Atten= 0%, Lag= 0.0 min
Primary = 2.90 cfs @ 0.25 hrs, Volume= 0.060 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.06' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.22 cfs @ 0.25 hrs HW=674.52' TW=674.42' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.22 cfs @ 1.56 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.23" for 50-Year event
Inflow = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af
Outflow = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af, Atten= 0%, Lag= 0.0 min
Primary = 2.38 cfs @ 0.25 hrs, Volume= 0.049 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 675.87' @ 0.30 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"**
			L= 116.4' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 0.25 hrs HW=674.69' TW=674.47' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.30 cfs @ 1.66 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 1.22" for 50-Year event
Inflow = 126.24 cfs @ 0.25 hrs, Volume= 2.608 af
Outflow = 20.92 cfs @ 0.46 hrs, Volume= 2.605 af, Atten= 83%, Lag= 12.5 min
Primary = 20.92 cfs @ 0.46 hrs, Volume= 2.605 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 665.32' @ 0.46 hrs Surf.Area= 28,511 sf Storage= 139,138 cf (102,741 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 656.2 min calculated for 1.769 af (68% of inflow)
Center-of-Mass det. time= 451.4 min (466.4 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=20.91 cfs @ 0.46 hrs HW=665.32' (Free Discharge)
└**1=RCP_Round 48"** (Passes 20.91 cfs of 108.45 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 19.49 cfs @ 3.69 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.42 cfs @ 10.89 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af
Outflow = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af, Atten= 0%, Lag= 0.0 min
Primary = 7.35 cfs @ 0.25 hrs, Volume= 0.152 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.74' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=672.87' TW=673.12' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.29" for 50-Year event
Inflow = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af
Outflow = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 6.10 cfs @ 0.25 hrs, Volume= 0.126 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.34' @ 0.34 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.94 cfs @ 0.25 hrs HW=673.41' TW=673.29' (Dynamic Tailwater)
1=RCP_Round 18" (Inlet Controls 2.94 cfs @ 1.66 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 1.07" for 50-Year event
Inflow = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af
Outflow = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.96 cfs @ 0.25 hrs, Volume= 0.020 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.57' @ 0.29 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.58' TW=673.94' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.84" for 50-Year event
Inflow = 3.60 cfs @ 0.25 hrs, Volume= 0.074 af
Outflow = 3.60 cfs @ 0.25 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.0 min
Primary = 3.60 cfs @ 0.25 hrs, Volume= 0.074 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.34' @ 0.26 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=2.70 cfs @ 0.25 hrs HW=676.25' TW=675.56' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Outlet Controls 2.70 cfs @ 3.41 fps)

Summary for Subcatchment 01S: CB-01

Runoff = 0.61 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.38"
Routed to Pond 01C : CB-01

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.109	0.98	Paved parking, HSG D
0.109		100.00% Impervious Area

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

Summary for Subcatchment 02H: HW-02

Runoff = 3.84 cfs @ 0.25 hrs, Volume= 0.079 af, Depth= 0.90"
Routed to Pond HW2 : HW-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
1.060	0.64	50-75% Grass cover, Fair, HSG D
1.060		100.00% Pervious Area

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

Summary for Subcatchment 02S: CB-02

Runoff = 0.73 cfs @ 0.25 hrs, Volume= 0.015 af, Depth= 1.38"
Routed to Pond 02C : CB-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 03R: MH-03

Runoff = 0.52 cfs @ 0.25 hrs, Volume= 0.011 af, Depth= 1.10"
Routed to Pond 03M : MH-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.117	0.78	composite
0.117		100.00% Pervious Area

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

Summary for Subcatchment 03S: CB-03

Runoff = 0.16 cfs @ 0.25 hrs, Volume= 0.003 af, Depth= 1.38"
Routed to Pond 03C : CB-03

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.029	0.98	Paved parking, HSG D
0.029		100.00% Impervious Area

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

Summary for Subcatchment 04S: CB-04

Runoff = 0.97 cfs @ 0.25 hrs, Volume= 0.020 af, Depth= 1.15"
Routed to Pond 04C : CB-04

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.209	0.82	composite
0.209		100.00% Pervious Area

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

Summary for Subcatchment 05R: MH-05

Runoff = 0.58 cfs @ 0.25 hrs, Volume= 0.012 af, Depth= 1.05"
Routed to Pond 05M : MH-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.136	0.75	composite
0.136		100.00% Pervious Area

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

Summary for Subcatchment 05S: CB-05

Runoff = 2.33 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 1.38"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.419	0.98	Paved parking, HSG D
0.419		100.00% Impervious Area

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

Summary for Subcatchment 06F: MH-06 FUT

Runoff = 61.50 cfs @ 0.25 hrs, Volume= 1.271 af, Depth= 1.31"
Routed to Pond 06M : MH-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
9.920	0.98	Paved parking, HSG D
1.750	0.64	50-75% Grass cover, Fair, HSG D
11.670	0.93	Weighted Average
1.750		15.00% Pervious Area
9.920		85.00% Impervious Area

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

Summary for Subcatchment 06S: CB-06

Runoff = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af, Depth= 1.38"
Routed to Pond 06C : CB-06

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.575	0.98	Paved parking, HSG D
0.575		100.00% Impervious Area

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

Summary for Subcatchment 07S: CB-07

Runoff = 1.37 cfs @ 0.25 hrs, Volume= 0.028 af, Depth= 1.38"
Routed to Pond 07C : CB-07

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.246	0.98	Paved parking, HSG D
0.246		100.00% Impervious Area

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

Summary for Subcatchment 08S: CB-08

Runoff = 1.27 cfs @ 0.25 hrs, Volume= 0.026 af, Depth= 1.38"
Routed to Pond 08C : CB-08

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.228	0.98	Paved parking, HSG D
0.228		100.00% Impervious Area

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

Summary for Subcatchment 09S: CB-09

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 09C : CB-09

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.374	0.98	Paved parking, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment 10S: CB-10

Runoff = 3.12 cfs @ 0.25 hrs, Volume= 0.064 af, Depth= 1.38"
Routed to Pond 10C : CB-10

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.561	0.98	Paved parking, HSG D
0.561		100.00% Impervious Area

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

Summary for Subcatchment 11S: CB-11

Runoff = 2.30 cfs @ 0.25 hrs, Volume= 0.048 af, Depth= 1.38"
Routed to Pond 11C : CB-11

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.414	0.98	Paved parking, HSG D
0.414		100.00% Impervious Area

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

Summary for Subcatchment 12S: CB-12

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 12C : CB-12

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.375	0.98	Paved parking, HSG D
0.375		100.00% Impervious Area

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

Summary for Subcatchment 13S: CB-13

Runoff = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Depth= 0.90"
Routed to Pond 13C : CB-13

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.109	0.64	50-75% Grass cover, Fair, HSG D
0.109		100.00% Pervious Area

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

Summary for Subcatchment 14S: CB-14

Runoff = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Depth= 1.32"
Routed to Pond 14C : CB-14

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.737	0.94	composite
0.737		100.00% Pervious Area

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

Summary for Subcatchment 15S: CB-15

Runoff = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Depth= 1.38"
Routed to Pond 15C : CB-15

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.556	0.98	Paved parking, HSG D
0.556		100.00% Impervious Area

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

Summary for Subcatchment 16S: CB-16

Runoff = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af, Depth= 1.31"
Routed to Pond 16C : CB-16

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.481	0.93	composite
0.481		100.00% Pervious Area

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

Summary for Subcatchment 17F: CB-17 FUT

Runoff = 29.79 cfs @ 0.25 hrs, Volume= 0.615 af, Depth= 1.31"
Routed to Pond 17C : CB-17

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
4.322	0.98	Paved parking, HSG D
0.763	0.64	50-75% Grass cover, Fair, HSG D
0.567	0.98	Water Surface, HSG D
5.652	0.93	Weighted Average
0.763		13.50% Pervious Area
4.889		86.50% Impervious Area

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

Summary for Subcatchment 19S: CB-19

Runoff = 0.73 cfs @ 0.25 hrs, Volume= 0.015 af, Depth= 1.38"
Routed to Pond 19C : CB-19

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.131	0.98	Paved parking, HSG D
0.131		100.00% Impervious Area

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

Summary for Subcatchment 20S: CB-20

Runoff = 2.10 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 20C : CB-20

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.378	0.98	Paved parking, HSG D
0.378		100.00% Impervious Area

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

Summary for Subcatchment 21S: CB-21

Runoff = 0.63 cfs @ 0.25 hrs, Volume= 0.013 af, Depth= 1.38"
Routed to Pond 21C : CB-21

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.113	0.98	Paved parking, HSG D
0.113		100.00% Impervious Area

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

Summary for Subcatchment RD1: RD1

Runoff = 2.08 cfs @ 0.25 hrs, Volume= 0.043 af, Depth= 1.38"
Routed to Pond 05C : CB-05

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.374	0.98	Roofs, HSG D
0.374		100.00% Impervious Area

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

Summary for Subcatchment RD2: RD2

Runoff = 2.73 cfs @ 0.25 hrs, Volume= 0.056 af, Depth= 1.38"
Routed to Pond 02M : MH-02

Runoff by Rational method, Rise/Fall=1.0/1.0 xTc, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
OH-Monroe 100-Year Duration=15.0 min, Inten=5.62 in/hr

Area (ac)	C	Description
0.492	0.98	Roofs, HSG D
0.492		100.00% Impervious Area

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

Summary for Pond 01C: CB-01

Inflow Area = 1.280 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af
Outflow = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min
Primary = 7.11 cfs @ 0.25 hrs, Volume= 0.147 af
Routed to Pond 19C : CB-19

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.92' @ 0.32 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.80'	**18.00" Round RCP_Round 18"** L= 130.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.80' / 669.15' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=5.11 cfs @ 0.25 hrs HW=673.84' TW=673.39' (Dynamic Tailwater)
1=RCP_Round 18" (Outlet Controls 5.11 cfs @ 2.89 fps)

Summary for Pond 02C: CB-02

Inflow Area = 1.542 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af
Outflow = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
Primary = 8.56 cfs @ 0.25 hrs, Volume= 0.177 af
Routed to Pond 03C : CB-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.38' @ 0.30 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.10'	**24.00" Round RCP_Round 24"** L= 110.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.10' / 668.55' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.71' TW=673.85' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 02M: MH-02

Inflow Area = 2.063 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af
Outflow = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af, Atten= 0%, Lag= 0.0 min
Primary = 11.46 cfs @ 0.25 hrs, Volume= 0.237 af
Routed to Pond 04C : CB-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 674.93' @ 0.28 hrs
Flood Elev= 677.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.86'	**24.00" Round RCP_Round 24"** L= 54.3' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.86' / 667.59' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.89' TW=673.96' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03C: CB-03

Inflow Area = 1.571 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af
Outflow = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min
Primary = 8.72 cfs @ 0.25 hrs, Volume= 0.180 af
Routed to Pond 02M : MH-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.20' @ 0.29 hrs
Flood Elev= 676.35'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.55'	**24.00" Round RCP_Round 24"** L= 137.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 668.55' / 667.86' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.85' TW=673.89' (Dynamic Tailwater)
↑—**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 03M: MH-03

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Outflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af, Atten= 0%, Lag= 0.0 min
Primary = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Routed to Pond 09M : MH-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.35' @ 0.26 hrs
Flood Elev= 675.16'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.42'	**36.00" Round RCP_Round 36"** L= 22.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 667.42' / 667.31' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=33.91 cfs @ 0.25 hrs HW=674.08' TW=673.09' (Dynamic Tailwater)
1=RCP_Round 36" (Inlet Controls 33.91 cfs @ 4.80 fps)

Summary for Pond 04C: CB-04

Inflow Area = 2.272 ac, 90.80% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af
Outflow = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af, Atten= 0%, Lag= 0.0 min
Primary = 12.43 cfs @ 0.25 hrs, Volume= 0.257 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 674.65' @ 0.27 hrs
Flood Elev= 674.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.59'	**24.00" Round RCP_Round 24"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.59' / 667.42' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.96' TW=674.08' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 04M: MH-04

Inflow Area = 20.024 ac, 77.03% Impervious, Inflow Depth = 1.30" for 100-Year event
Inflow = 104.84 cfs @ 0.25 hrs, Volume= 2.166 af
Outflow = 104.84 cfs @ 0.25 hrs, Volume= 2.166 af, Atten= 0%, Lag= 0.0 min
Primary = 104.84 cfs @ 0.25 hrs, Volume= 2.166 af
Routed to Pond 17C : CB-17

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 672.13' @ 0.25 hrs
Flood Elev= 676.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	666.48'	**48.00" Round RCP_Round 48"** L= 86.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 666.48' / 666.05' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

Primary OutFlow Max=104.84 cfs @ 0.25 hrs HW=672.13' TW=663.68' (Dynamic Tailwater)
1=RCP_Round 48" (Barrel Controls 104.84 cfs @ 8.34 fps)

Summary for Pond 05C: CB-05

Inflow Area = 0.793 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af
Outflow = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min
Primary = 4.40 cfs @ 0.25 hrs, Volume= 0.091 af
Routed to Pond 20C : CB-20

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.35' @ 0.34 hrs
Flood Elev= 677.92'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.47'	**18.00" Round RCP_Round 18"** L= 123.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.47' / 669.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.87' TW=673.98' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 05M: MH-05

Inflow Area = 4.905 ac, 70.17% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af
Outflow = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af, Atten= 0%, Lag= 0.0 min
Primary = 26.55 cfs @ 0.25 hrs, Volume= 0.549 af
Routed to Pond 03M : MH-03

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.20' @ 0.27 hrs
Flood Elev= 678.94'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.05'	**30.00" Round RCP_Round 30"** L= 126.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.05' / 667.42' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=19.17 cfs @ 0.25 hrs HW=674.62' TW=674.08' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 19.17 cfs @ 3.91 fps)

Summary for Pond 06C: CB-06

Inflow Area = 0.575 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af
Outflow = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 3.19 cfs @ 0.25 hrs, Volume= 0.066 af
Routed to Pond 07C : CB-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 677.81' @ 0.35 hrs
Flood Elev= 677.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.52'	**15.00" Round RCP_Round 15"** L= 52.9' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.52' / 671.26' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.20' TW=674.31' (Dynamic Tailwater)
↑—**1=RCP_Round 15"** (Controls 0.00 cfs)

Summary for Pond 06M: MH-06

Inflow Area = 12.730 ac, 77.93% Impervious, Inflow Depth = 1.27" for 100-Year event
Inflow = 65.35 cfs @ 0.25 hrs, Volume= 1.350 af
Outflow = 65.35 cfs @ 0.25 hrs, Volume= 1.350 af, Atten= 0%, Lag= 0.0 min
Primary = 65.35 cfs @ 0.25 hrs, Volume= 1.350 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.57' @ 0.25 hrs
Flood Elev= 687.22'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.43'	**36.00" Round RCP_Round 36"** L= 268.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.43' / 666.48' S= 0.0110 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=64.17 cfs @ 0.25 hrs HW=676.55' TW=672.13' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 64.17 cfs @ 9.08 fps)

Summary for Pond 07C: CB-07

Inflow Area = 0.821 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Outflow = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 4.56 cfs @ 0.25 hrs, Volume= 0.094 af
Routed to Pond 08C : CB-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.70' @ 0.34 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.26'	**18.00" Round RCP_Round 18"** L= 47.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.26' / 671.02' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.31' TW=674.59' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 07M: MH-07

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Outflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af, Atten= 0%, Lag= 0.0 min
Primary = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.82' @ 0.28 hrs
Flood Elev= 680.14'

Device	Routing	Invert	Outlet Devices
#1	Primary	668.64'	**30.00" Round RCP_Round 30"** L= 94.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 668.64' / 668.05' S= 0.0062 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=15.65 cfs @ 0.25 hrs HW=674.93' TW=674.62' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 15.65 cfs @ 3.19 fps)

Summary for Pond 08C: CB-08

Inflow Area = 1.049 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af
Outflow = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min
Primary = 5.83 cfs @ 0.25 hrs, Volume= 0.120 af
Routed to Pond 09C : CB-09

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.59' @ 0.33 hrs
Flood Elev= 677.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.02'	**18.00" Round RCP_Round 18"** L= 48.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.02' / 670.78' S= 0.0049 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.59' TW=674.68' (Dynamic Tailwater)
1=RCP_Round 18" (Controls 0.00 cfs)

Summary for Pond 08M: MH-08

Inflow Area = 2.160 ac, 65.88% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af
Outflow = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af, Atten= 0%, Lag= 0.0 min
Primary = 11.83 cfs @ 0.25 hrs, Volume= 0.244 af
Routed to Pond 10C : CB-10

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.24' @ 0.31 hrs
Flood Elev= 678.81'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.60'	**24.00" Round RCP_Round 24"** L= 98.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.60' / 670.11' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=3.65 cfs @ 0.25 hrs HW=674.96' TW=674.90' (Dynamic Tailwater)
1=RCP_Round 24" (Inlet Controls 3.65 cfs @ 1.16 fps)

Summary for Pond 09C: CB-09

Inflow Area = 1.423 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af
Outflow = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af, Atten= 0%, Lag= 0.0 min
Primary = 7.90 cfs @ 0.25 hrs, Volume= 0.163 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.38' @ 0.32 hrs
Flood Elev= 677.79'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.78'	**24.00" Round RCP_Round 24"** L= 35.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.78' / 670.60' S= 0.0051 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.68' TW=674.96' (Dynamic Tailwater)
1=RCP_Round 24" (Controls 0.00 cfs)

Summary for Pond 09M: MH-09

Inflow Area = 7.294 ac, 75.47% Impervious, Inflow Depth = 1.34" for 100-Year event
Inflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Outflow = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af, Atten= 0%, Lag= 0.0 min
Primary = 39.49 cfs @ 0.25 hrs, Volume= 0.816 af
Routed to Pond 04M : MH-04

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 673.18' @ 0.26 hrs
Flood Elev= 676.26'

Device	Routing	Invert	Outlet Devices
#1	Primary	667.31'	**36.00" Round RCP_Round 36"** L= 166.5' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 667.31' / 666.48' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

Primary OutFlow Max=36.50 cfs @ 0.25 hrs HW=673.09' TW=672.13' (Dynamic Tailwater)
↑—**1=RCP_Round 36"** (Outlet Controls 36.50 cfs @ 5.16 fps)

Summary for Pond 10C: CB-10

Inflow Area = 2.721 ac, 72.91% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af
Outflow = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
Primary = 14.94 cfs @ 0.25 hrs, Volume= 0.309 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.91' @ 0.31 hrs
Flood Elev= 677.86'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.11'	**30.00" Round RCP_Round 30"** L= 108.6' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.11' / 669.57' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.90' TW=675.19' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Controls 0.00 cfs)

Summary for Pond 11C: CB-11

Inflow Area = 3.691 ac, 80.03% Impervious, Inflow Depth = 1.37" for 100-Year event
Inflow = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af
Outflow = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af, Atten= 0%, Lag= 0.0 min
Primary = 20.33 cfs @ 0.25 hrs, Volume= 0.420 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.72' @ 0.30 hrs
Flood Elev= 677.96'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.57'	**30.00" Round RCP_Round 30"** L= 96.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.57' / 669.09' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=675.19' TW=675.20' (Dynamic Tailwater)
1=RCP_Round 30" (Controls 0.00 cfs)

Summary for Pond 12C: CB-12

Inflow Area = 4.547 ac, 73.21% Impervious, Inflow Depth = 1.36" for 100-Year event
Inflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Outflow = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af, Atten= 0%, Lag= 0.0 min
Primary = 24.95 cfs @ 0.25 hrs, Volume= 0.515 af
Routed to Pond 07M : MH-07

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.37' @ 0.29 hrs
Flood Elev= 677.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.09'	**30.00" Round RCP_Round 30"** L= 89.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.09' / 668.64' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=14.64 cfs @ 0.25 hrs HW=675.20' TW=674.93' (Dynamic Tailwater)
1=RCP_Round 30" (Outlet Controls 14.64 cfs @ 2.98 fps)

Summary for Pond 13C: CB-13

Inflow Area = 0.109 ac, 0.00% Impervious, Inflow Depth = 0.90" for 100-Year event
Inflow = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af
Outflow = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 0.25 hrs, Volume= 0.008 af
Routed to Pond 21C : CB-21

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.26' @ 0.29 hrs
Flood Elev= 677.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.85'	**12.00" Round RCP_Round 12"** L= 32.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.85' / 670.21' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.76' TW=674.19' (Dynamic Tailwater)
1=RCP_Round 12" (Controls 0.00 cfs)

Summary for Pond 14C: CB-14

Inflow Area = 0.737 ac, 0.00% Impervious, Inflow Depth = 1.32" for 100-Year event
Inflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Outflow = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min
Primary = 3.93 cfs @ 0.25 hrs, Volume= 0.081 af
Routed to Pond 08M : MH-08

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.51' @ 0.32 hrs
Flood Elev= 679.08'

Device	Routing	Invert	Outlet Devices
#1	Primary	672.21'	**15.00" Round RCP_Round 15"** L= 80.3' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 672.21' / 670.60' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.94' TW=674.96' (Dynamic Tailwater)
1=RCP_Round 15" (Controls 0.00 cfs)

Summary for Pond 15C: CB-15

Inflow Area = 0.556 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Outflow = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 0.25 hrs, Volume= 0.064 af
Routed to Pond 11C : CB-11

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 677.12' @ 0.30 hrs
Flood Elev= 678.23'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.36'	**12.00" Round RCP_Round 12"** L= 39.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 670.36' / 669.57' S= 0.0201 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.05 cfs @ 0.25 hrs HW=675.26' TW=675.19' (Dynamic Tailwater)
1=RCP_Round 12" (Inlet Controls 1.05 cfs @ 1.34 fps)

Summary for Pond 16C: CB-16

Inflow Area = 0.481 ac, 0.00% Impervious, Inflow Depth = 1.31" for 100-Year event
Inflow = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af
Outflow = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 2.53 cfs @ 0.25 hrs, Volume= 0.052 af
Routed to Pond 12C : CB-12

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 676.93' @ 0.30 hrs
Flood Elev= 678.06'

Device	Routing	Invert	Outlet Devices
#1	Primary	671.36'	**12.00" Round RCP_Round 12"** L= 116.4' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 671.36' / 669.09' S= 0.0195 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 0.25 hrs HW=675.49' TW=675.20' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Outlet Controls 1.50 cfs @ 1.91 fps)

Summary for Pond 17C: CB-17

Inflow Area = 25.676 ac, 79.12% Impervious, Inflow Depth = 1.30" for 100-Year event
Inflow = 134.63 cfs @ 0.25 hrs, Volume= 2.782 af
Outflow = 24.98 cfs @ 0.45 hrs, Volume= 2.778 af, Atten= 81%, Lag= 12.2 min
Primary = 24.98 cfs @ 0.45 hrs, Volume= 2.778 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Starting Elev= 660.00' Surf.Area= 12,188 sf Storage= 36,397 cf
Peak Elev= 665.50' @ 0.45 hrs Surf.Area= 29,034 sf Storage= 144,217 cf (107,820 cf above start)
Flood Elev= 671.00' Surf.Area= 46,923 sf Storage= 351,792 cf (315,394 cf above start)

Plug-Flow detention time= 605.9 min calculated for 1.943 af (70% of inflow)
Center-of-Mass det. time= 427.0 min (442.0 - 15.0)

Volume	Invert	Avail.Storage	Storage Description
#1	656.00'	400,492 cf	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
656.00	6,183	460.0	0	0	6,183
657.00	7,593	480.5	6,876	6,876	7,788
658.00	9,065	500.5	8,318	15,194	9,424
659.00	10,596	520.4	9,821	25,015	11,120
660.00	12,188	540.0	11,383	36,397	12,856
661.00	13,839	560.0	13,005	49,402	14,692
662.00	15,550	580.0	14,686	64,088	16,593
663.00	19,885	650.0	17,673	81,761	23,472
664.00	24,700	705.0	22,249	104,010	29,442
665.00	27,573	731.0	26,123	130,134	32,498
666.00	30,547	756.0	29,047	159,181	35,548
667.00	33,621	781.0	32,072	191,253	38,701
668.00	36,796	806.0	35,197	226,449	41,957
669.00	40,070	831.4	38,421	264,871	45,366
670.00	43,447	856.5	41,747	306,618	48,842
671.00	46,923	881.6	45,174	351,792	52,420
672.00	50,500	907.0	48,701	400,492	56,145

Device	Routing	Invert	Outlet Devices
#1	Primary	660.00'	**48.00" Round RCP_Round 48"** L= 106.5' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 660.00' / 659.01' S= 0.0093 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf
#2	Device 1	671.00'	**24.00" x 24.00" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#3	Device 1	670.00'	**48.00" W x 6.00" H Vert. Orifice/Grate X 2.00** C= 0.600 Limited to weir flow at low heads
#4	Device 1	664.00'	**48.00" W x 24.00" H Vert. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#5	Device 1	660.00'	**1.00" Vert. Orifice/Grate X 12.00 columns** X 2 rows with 4.00" cc spacing C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=24.96 cfs @ 0.45 hrs HW=665.50' (Free Discharge)
└**1=RCP_Round 48"** (Passes 24.96 cfs of 111.70 cfs potential flow)
  ├**2=Orifice/Grate** (Controls 0.00 cfs)
  ├**3=Orifice/Grate** (Controls 0.00 cfs)
  ├**4=Orifice/Grate** (Orifice Controls 23.51 cfs @ 3.93 fps)
  └**5=Orifice/Grate** (Orifice Controls 1.45 cfs @ 11.07 fps)

Summary for Pond 19C: CB-19

Inflow Area = 1.411 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af
Outflow = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af, Atten= 0%, Lag= 0.0 min
Primary = 7.84 cfs @ 0.25 hrs, Volume= 0.162 af
Routed to Pond 02C : CB-02

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.46' @ 0.31 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.15'	**24.00" Round RCP_Round 24"** L= 10.0' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 669.15' / 669.10' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=673.39' TW=673.71' (Dynamic Tailwater)
└**1=RCP_Round 24"** (Controls 0.00 cfs)

Summary for Pond 20C: CB-20

Inflow Area = 1.171 ac,100.00% Impervious, Inflow Depth = 1.38" for 100-Year event
Inflow = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af
Outflow = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af, Atten= 0%, Lag= 0.0 min
Primary = 6.50 cfs @ 0.25 hrs, Volume= 0.134 af
Routed to Pond 01C : CB-01

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.20' @ 0.33 hrs
Flood Elev= 677.03'

Device	Routing	Invert	Outlet Devices
#1	Primary	669.85'	**18.00" Round RCP_Round 18"** L= 10.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 669.85' / 669.80' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=3.14 cfs @ 0.25 hrs HW=673.98' TW=673.84' (Dynamic Tailwater)
↑—**1=RCP_Round 18"** (Inlet Controls 3.14 cfs @ 1.78 fps)

Summary for Pond 21C: CB-21

Inflow Area = 0.222 ac, 50.90% Impervious, Inflow Depth = 1.14" for 100-Year event
Inflow = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af
Outflow = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 1.02 cfs @ 0.25 hrs, Volume= 0.021 af
Routed to Pond 05M : MH-05

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 675.25' @ 0.28 hrs
Flood Elev= 678.46'

Device	Routing	Invert	Outlet Devices
#1	Primary	670.21'	**12.00" Round RCP_Round 12"** L= 33.1' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 670.21' / 669.55' S= 0.0199 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=674.19' TW=674.62' (Dynamic Tailwater)
↑—**1=RCP_Round 12"** (Controls 0.00 cfs)

Summary for Pond HW2: HW-02

Inflow Area = 1.060 ac, 0.00% Impervious, Inflow Depth = 0.90" for 100-Year event
Inflow = 3.84 cfs @ 0.25 hrs, Volume= 0.079 af
Outflow = 3.84 cfs @ 0.25 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min
Primary = 3.84 cfs @ 0.25 hrs, Volume= 0.079 af
Routed to Pond 06M : MH-06

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 676.76' @ 0.26 hrs
Flood Elev= 678.63'

Device	Routing	Invert	Outlet Devices
#1	Primary	675.52'	**30.00" Round RCP_Round 30"** L= 122.8' RCP, rounded edge headwall, Ke= 0.100 Inlet / Outlet Invert= 675.52' / 673.80' S= 0.0140 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

Primary OutFlow Max=0.00 cfs @ 0.25 hrs HW=676.47' TW=676.55' (Dynamic Tailwater)
↑—**1=RCP_Round 30"** (Controls 0.00 cfs)