NORTHEAST ENGINEERS & CONSULTANTS, INC.

Stormwater Runoff Analysis

Prescott Point Single Family Development
Assessor's Map 55, Lot 1A (Portsmouth)
Assessor's Map 104, Lot 7 (Middletown)
West Main Road and Freedom Trail Drive
Middletown / Portsmouth, RI

Prepared For
Landings Real Estate Group
543 Thames Street
Newport, RI 02840

November 2021

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Civil • Site • Land Development • Waterfront • Coastal Engineering • Environmental • Geotechnical • Structural • Renewable • Surveying

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1.0 PROJECT NARRATIVE

1.1 SITE INFORMATION

City / Town:	Middletown and Portsmouth, Rhode Island
Adjacent Roadways:	West Main Road and Freedom Trail Drive
Lot(s) identification:	A.P. 55 Lot 1A (Portsmouth) and A.P. 104 Lot 7 (Middletown)
Zoning District:	R-30 / R20A
Current Use:	Multifamily Residential
Site Area:	105.9 Acres
FEMA Zone and Map:	Area of development Zone "X" (Panels 44005C0091J and 44005C0083J)

1.2 EXISTING IMPROVEMENTS AND SITE CONDITIONS

The subject property (The Site) is comprised of two partially developed parcels located on the west side of the boundary between Middletown and Portsmouth. The portion of the Site located in Portsmouth is zone R-30, while the portion located in Middletown is zoned RM. The Site is accessible via West Main Road (RT Route 114) and stretches almost to Burma Road to the west. The Site was originally home to the Mother of Hope Novitiate facility owned by the Roman Catholic Bishop of RI. In the late 2000's, the Site was permitted as a large multifamily development "Freedom Bay", with units that spanned the property and were accessed by a network of private roadways. The development also included a commercial component which fronted West Main Road. During construction, the site underwent extensive environmental remediation. A private sewer treatment plan was designed and constructed for the project, which utilized the existing direct discharge permit of the Novitiate. The infrastructure for the eastern side of the development, as well as the main access road and wetlands crossing to the west side was completed in the early stages of construction. However, as the eastern units began to be constructed, the developer abandoned the project. While some units were completed, other units had been boarded up in an incomplete state. The treatment plant, while completed, was not operational. In 2010, the development was acquired by the Landings Real Estate Group and renamed Prescott Point. Since that time, the units are now being completed and sold. New duplexes and triplexes are also being constructed on the east side of the Site in accordance with the original approved plan. In 2013, a large drip irrigation leachfield system was permitted and constructed for the site, which was to replace the direct discharge. These two large fields were constructed on the west side of the Site, to the south of the existing treatment plant. The remainder of the Site is undisturbed and is heavily vegetated with trees and brush.

1.3 PROTECTED FEATURES

A stream identified as the "Mother of Hope Brook" runs southeast to northwest through the property and is associated with a large area of freshwater wetlands. An isolated area of freshwater wetlands is also present at the southwest corner of the property. These features are all protected by the state.

1.4 SITE TERRAIN AND SOILS

In general, the site is elevated, sloping down to the wetland and stream areas. There is roughly a fifty-foot grade change across the Phase 2 development area. The soil characteristics of the Site include categories "NeA", "NeB", and "NeC" (Newport Silt Loams) as well as "PmB" (Pittstown Silt Loam), and "Se" (Stissing) as identified by the USDA Soil Conservation Service and the Rhode Island Soil Survey. These soils are all Type "C" Hydrologic soils. Class IV soil evaluations performed on site revealed silt loams with a 33 to 24-inch water table depth.

1.5 PROPOSED IMPROVEMENTS

The developer intends to continue the development of Prescott Point, with a focus on single family development. The infrastructure and layout for the west side of the Site will be completely redesigned from the original permitted development. A total of 90 single family condominium units will be created along two new looping roadways. While the majority of the existing sewer infrastructure and sewage treatment plant will remain, the existing drainage system will be replaced. The existing drip irrigation leaching fields will also remain. In addition to the single-family units, a small assisted living facility will also be constructed. The permitted commercial component which was intended to front West Main Road is to be replaced with an additional six (6) single family units. The remainder of the units on the east side of the project will continue to be constructed per the original plan. All new roadways shall be a 24' wide paved construction. The existing Newport Water mains will be extended to provide service to the full development. Gas mains and electrical conduits will likewise be extended as directed by National Grid to provide service for all new units. The redesigned stormwater system will comply fully with the current versions of the Rhode Island Stormwater Design and Installation Manual (RISDIM) and the Rhode Island Soil Erosion and Sediment Control Handbook (RISESCH) and will provide superior treatment and mitigation to the systems that were originally designed and constructed.

The stormwater system has been designed to treat runoff from 100% of the impervious areas proposed in this redesign. Given that the site drains to freshwater wetland features and roadways, the stormwater system also addresses the peak rate of runoff. Runoff from the roadways, driveways, and residences will be collected, treated in accordance with state standards, and then discharged non-erosively to the downstream areas. At all stages of construction measures will be in place to ensure that erosion is contained in accordance with state and local standards.

A Tax Assessor's Plat Map and Soil Reference Map are referenced in Appendix A. The existing site and proposed watershed plans are referenced in Appendix B.

2.0 PROPOSED ALTERATIONS AND STORMWATER CONSIDERATIONS

2.1 STORMWATER SYSTEM OBJECTIVES

The objectives of the project stormwater system are to accomplish the following:

- **Provide water quality treatment for stormwater runoff in accordance with the recommendations of the Rhode Island Stormwater Design and Installation Manual (March 2015)**
- **Reduce or maintain the peak rate of runoff to all design points for the 2, 10, 25 and 100-Year Type III 24-hour storm events.**
- **Maintain the overall drainage patterns from the site to the extent practicable.**
- **Promote groundwater recharge where possible though infiltration after proper treatment.**
- **Provide channel protection volume control in accordance with state standards.**

2.2 REDEVELOPMENT SITE

As the existing site lot coverage consists of much less than 40% impervious and less than 10,000 square feet of this impervious surface is to be re-developed, this project does not qualify as a "redevelopment site" per section 3.2.6 of the RISDISM.

2.3 MINIMUM STORMWATER MANAGEMENT STANDARDS

2.3.1 MINIMUM STANDARD 1: LID SITE PLANNING AND DESIGN STRATEGIES

The proposed development utilizes LID designs conforming to the RISDISM. These elements are located downstream of the new improvements and will directly treat the newly generated runoff with the minimal practical interception of clean runoff. Impervious surfaces are limited to the proposed structures and travel way surfaces. Roadway surfaces have been reduced to the minimum allowable by the municipalities. It is the opinion of NE&C that the proposed approach to the stormwater system is in conformance with the intent of LID site planning.

2.3.2 MINIMUM STANDARD 2: GROUNDWATER RECHARGE

This standard shall be met to the extent possible by infiltrating runoff in detention basins which are sufficiently elevated above the water table. Due to the elevated water tables across the site, the majority of the stormwater devices will not permit infiltration. A total of **9.6 acres** of impervious surfaces (roadway, driveway and rooftop) will require groundwater recharge. This equates to a total of **0.200 acre-feet** of recharge volume based on the underlying hydrologic soil type. Based on the HydroCAD modelling of the 1.2-inch water quality storm, only **0.036 acre-feet** of recharge can be achieved. Refer to Appendix E for complete calculations. A waiver is requested for the remaining recharge volume.

2.3.3 MINIMUM STANDARD 3: WATER QUALITY

This standard shall be met by the provision of several surface sand filters. These systems have been designed in accordance with the RISDISM. Due to the elevated water tables, all of the sand filters shall be lined to prevent interaction with the groundwater. Filtered water will be discharged to the downstream detention basins for metered release or directly to grade for overland flow to the design points. A total of **9.6 acres** of impervious surfaces (roadway, driveway and rooftop) will require water quality treatment. Refer to Appendix E for complete calculations.

2.3.4 MINIMUM STANDARD 4: CONVEYANCE AND NATURAL CHANNEL PROTECTION

Each of the proposed detention basins have been designed to provide channel protection volume. The low flow orifice for each basin has been sized to release the 1-year storm volume over a period of 24-hours. Refer to Appendix E for complete calculations.

2.3.5 MINIMUM STANDARD 5: OVERBANK FLOOD PROTECTION

The TR-20 HydroCAD model demonstrates that the proposed system will successfully mitigate the 100-year storm event. In these calculations, all pre-development land was characterized as "good condition" as required by this standard. The modeling also demonstrates that the structures and stormwater devices will safely pass the 100-year storm event without flooding or breaching.

2.3.6 MINIMUM STANDARD 6: REDEVELOPMENT AND INFILL PROJECTS

As stated in section 2.2 above, this project does not qualify as a re-development project.

2.3.7 MINIMUM STANDARD 7: POLLUTION PREVENTION

Source controls and pollution prevention measures will be present during all phases of construction. A separate stormwater pollution prevention plan (Soil Erosion and Sediment Control Narrative) has been prepared.

2.3.8 MINIMUM STANDARD 8: LAND USES WITH HIGHER POTENTIAL POLLUTANT LOADS

The use of this property does not quality as a LUHPPL and does not require any specific source controls, limited BMPs, or and additional state permitting.

2.3.9 MINIMUM STANDARD 9: ILLICIT DISCHARGES

Neither the using use nor any proposed uses will include any discharges considered to be "illicit" per this section of the Manual.

2.3.10 MINIMUM STANDARD 10: SOILS EROSION AND SEDIMENT CONTROL

Soil erosion and sediment control measures will be implemented during all phases of construction. A SESC plan has been provided in the permitting plan set and a separate Soil Erosion and Sediment Control Narrative has been prepared.

2.3.11 MINIMUM STANDARD 11: STORMWATER MANAGEMENT OPERATIONS AND MAINTENANCE

An Operations and Maintenance (O&M) Document has been prepared. Basic operations and maintenance requirements are also provided in the submission plan set.

2.4 OVERALL STORMWATER DESIGN FUNCTION

The overall design of the stormwater system is to provide a reduction in peak rate of runoff, and will meet the 11 minimum standards established in the RISDISM to the extend feasible. All proposed stormwater devices are to be situated downstream of the proposed improvements and upstream of the existing receiving point for the runoff from this catchment. The existing drainage patterns across the site will be minimally impacted. There will be no negative impact to the receiving stream or freshwater wetlands.

3.0 DESIGN MODELING METHODOLOGY

Runoff and routing calculations have been performed for the watershed areas affected by the proposed development under existing and proposed development conditions scenarios. Time of concentration and runoff curve number calculations have been performed using the method described in NRCS Technical Release 55 – Urban Hydrology for Small Watersheds. The TR-20 based HydroCAD modeling software has been utilized to perform the more complex runoff and routing calculations, most of which are beyond the scope of the TR-55 method.

Design rainfall events have been modeled using the Soil Conservation Service (SCS) Type III hydrograph for 24-hour duration storms. The rainfall depth for each return period is taken from the Rhode Island Stormwater Design and Installation Standards Manual, last revised March 2015 (RISDISM). This guidance document splits the state into five regions for rainfall frequency based on county. The project site is located in the Newport County region defined in the RISDISM. The rainfall frequency values recommended by RIDEM and used in this drainage analysis are listed in the table below.

Rainfall Frequency Values for **Newport County** Rhode Island with 24-Hour Storm Duration					
RIDEM *Stormwater Design and Installation Standards manual* 3/15					
Frequency	1-Yr	2-Yr	10-Yr	25-Yr	100-Yr
Inches of Rainfall	2.8	3.3	4.9	6.1	8.6

3.1 ANALYSIS DESIGN POINTS AND OFF-SITE CONTRIBUTIONS

The proposed development contributes stormwater runoff to the following design points. These design points provide a direct comparison for pre-construction and post-construction runoff flows and runoff volumes.

1. Downstream freshwater wetlands and stream (DP-1)
2. Downstream western abutters and Burma Roads (DP-2)

The following off-site areas contribute surface stormwater runoff to these design points. This runoff either drains through the project area or contributes in some manner which directly affects the design of the stormwater system and has been included in the design calculations. These areas are:

1. None.

Watershed maps for both the existing and proposed conditions can be found in Appendix B. These maps demonstrate the areas of the site which contribute to each of the design points and indicate the general pattern of surface or piped runoff flow.

3.2 DESIGN LIMITATIONS

There are no design limitations associated with this project aside from the elevated water tables previously discussed.

4.0 STORMWATER RUNOFF COMPARISONS

Analysis of the existing and proposed runoff during design storms demonstrates that there will be no increase in the peak runoff to the downstream design points as a result of the development.

Comparisons of the runoff at the design points are given below in. The runoff volumes given have been evaluated over a 72-hour period. All of the HydroCAD modeling worksheets are attached in Appendix C and D.

4.1 SUMMARY OF STORMWATER CALCULATIONS

Table 4.1 Comparison of Runoff Values Design Point 1 (DP1-EX vs. DP1-PR)
(Freshwater Wetlands and Stream)

Storm Return Period	Existing Conditions Peak Runoff (cfs)	Proposed Conditions Peak Runoff (cfs)	Existing Conditions Volume Runoff (af)	Proposed Conditions Volume Runoff (af)
WQ*	1.56	2.33	0.332	0.837
1-year	16.57	7.87	2.150	2.814
2-year	23.63	10.41	2.979	3.663
10-year	48.89	36.63	5.993	6.715
25-year	69.25	62.58	8.474	9.125
100-year	113.12	112.48	13.964	14.329

Table 4.2 Comparison of Runoff Values Design Point 2 (DP2-EX vs. DP2-PR)
(Downstream Western Abutters)

Storm Return Period	Existing Conditions Peak Runoff (cfs)	Proposed Conditions Peak Runoff (cfs)	Existing Conditions Volume Runoff (af)	Proposed Conditions Volume Runoff (af)
WQ*	0.11	1.83	0.064	0.413
1-year	9.21	5.77	1.079	1.672
2-year	13.97	7.27	1.548	2.279
10-year	31.84	27.01	3.308	4.545
25-year	46.76	40.52	4.796	6.394
100-year	79.67	75.69	8.149	10.461

*Based on a split-pervious HydroCAD analysis.

5.0 STORMWATER BMPS

5.1 SURFACE SAND FILTER

Description

A Sand Filter is designed to capture and temporarily store the water quality storm runoff volume and pass it through a sand media layer. In areas of shallow water tables or poorly draining soils, the media is lined with an impermeable membrane and the filtered runoff is collected by an underdrain. This treated runoff is then discharged downgradient. High flow runoff to a sand filter typically passes over an overflow weir to the detention basin. Sand filters are not intended to have permanent pools and should drain within 24 hours. The filter beds are planted with water tolerant grasses selected from the Rhode Island Coastal Plant Guide or Appendix B of the RIDISM.

The stormwater design for this development includes the following sand filters.

1. Device ID (HydroCAD): P201-SF
   Location: southeast of the wastewater treatment plant
   Lined or Unlined: Lined
   Discharge location: upstream of perimeter wetlands associated with stream

2. Device ID (HydroCAD): P202A-SF
   Location: north of freshwater wetlands at southwest corner of Site
   Lined or Unlined: Lined
   Discharge location: western property line

3. Device ID (HydroCAD): P202B-SF
   Location: west of private drive "A" loop on western end of site
   Lined or Unlined: Lined
   Discharge location: detention basin P202-DT

4. Device ID (HydroCAD): P203-SF
   Location: northwest of wastewater treatment plan
   Lined or Unlined: Lined
   Discharge location: upstream of perimeter wetlands associated with stream

5. Device ID (HydroCAD): P204A-SF
   Location: northwest corner of site
   Lined or Unlined: Lined
   Discharge location: upstream of perimeter wetlands associated with stream

6. Device ID (HydroCAD): P204B-SF
   Location: northwest corner of site
   Lined or Unlined: Lined
   Discharge location: western property line

7. Device ID (HydroCAD): P205-SF
   Location: southwest corner of site, east of freshwater wetlands
   Lined or Unlined: Unlined
   Discharge location: freshwater wetlands at southwest corner of site

5.2 CONVEYANCE STRUCTURES

Description

Conveyance structures include all man-made subsurface structures which collect and convey stormwater surface runoff across the site, typically to stormwater treatment or control devices. These structures include catch basins, curb inlets, drain manholes, culverts, and pipes. These structures are typically made of concrete or high-density plastics.

5.3 LINED DETENTION BASIN

Description

A detention basin collects and temporarily detains high volume stormwater runoff in order to mitigate the downstream effects. Water is released slowly though a perforated pipe set in crushed stone at the bottom of the basin. Higher flow stormwater is released through an overflow weir and down a stone spillway. A basin is designed such that it does not fill with groundwater during the wet season. Detention basins are not intended to have permanent pools and should drain within 72 hours.

The stormwater design for this development includes the following detention basins:

1. Device ID (HydroCAD): P201-DT
   Location: southeast of wastewater treatment system
   Lined or Unlined: Unlined
   Outlet Structure (Y/N): Y
   Overflow weir type: Concrete weir
   Associated WQ device: P201-SF (sand filter)
   Discharge location: Perimeter wetland edge

2. Device ID (HydroCAD): P202-DT
   Location: western property line
   Lined or Unlined: Lined
   Outlet Structure (Y/N): Y
   Overflow weir type: Concrete weir
   Associated WQ device: P202A-SF and P202B-SF (sand filters)
   Discharge location: western property line

3. Device ID (HydroCAD): P203-DT
   Location: east of Private Drive "A" loop
   Lined or Unlined: Lined
   Outlet Structure (Y/N): Y
   Overflow weir type: Concrete weir
   Associated WQ device: P203-SF (sand filter)
   Discharge location: perimeter wetlands associated with stream

4. Device ID (HydroCAD): P204A-DT
   Location: northwest corner of site
   Lined or Unlined: Unlined
   Outlet Structure (Y/N): Y
   Overflow weir type: Concrete weir
   Associated WQ device: P204B-SF (sand filter)
   Discharge location: western property line

5.4 **HYDRODYNAMIC SEPARATOR**

Description

A hydrodynamic separator is a proprietary stormwater pre-treatment device which removes the majority of large diameter sediments before discharging runoff to a primary treatment device. High flow stormwater bypasses a separator via a bypass pipe in an upstream structure.

The stormwater design for this development includes the following hydrodynamic separators:

1. Device ID (HydroCAD): DMH 1.120
   Location: Western side of Private Drive "A"
   Primary device supported: Sand Filter P201-SF
   Bypass Structure: DMH 1.110
   Model No: Stormcepter STC 450i

2. Device ID (HydroCAD): DMH 15.100
   Location: west of scenic overlook adjacent to Private Drive "B"
   Primary device supported: Sand Filter P202A-SF
   Bypass Structure: DMH 15.090
   Model No: Stormcepter STC 450i

3. Device ID (HydroCAD): DMH 26.060
   Location: north end of Private Drive "A" loop
   Primary device supported: Sand Filter P204A-SF
   Bypass Structure: DMH 26.050
   Model No: Stormcepter STC 450i

6.0 LIMITATIONS AND SPECIAL TERMS AND CONDITIONS

1. NE&C's evaluation was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and NE&C observed the degree of care and skill generally exercised by other consultants under similar circumstances and conditions. No warrantee expressed or implied is made.

2. Any additional research conducted should be reviewed by Northeast Engineers & Consultants, Inc., such that the conclusions presented herein may be modified.

3. All observations documented in this report were performed under the existing conditions at the time of the assessment.

4. This report has been prepared on the behalf of and is for the exclusive use of the Client. This report and findings contained herein shall not, in whole or in part be disseminated or conveyed to any party, nor used by any other party in whole or in part, without the written consent of NE&C.

APPENDIX A FIGURES

Scale: NTS	Date: 24NOV21	Designed By:	Drawn By:	Checked By:
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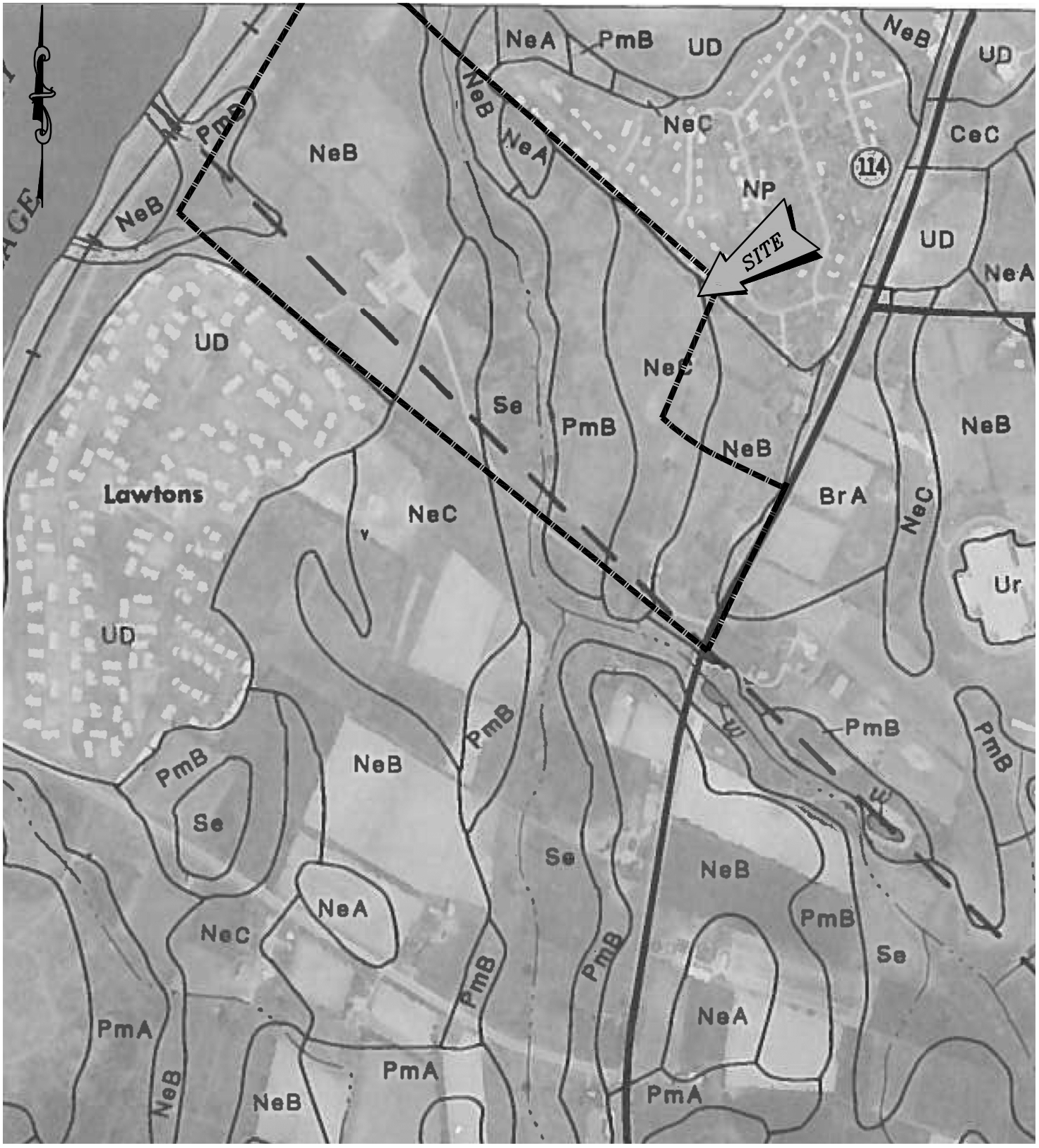
Issued for: PERMITTING		Drawing Number: F-1	Project Number: 10068.0	



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Scale: NTS	Date: 24NOV21	Designed By:	Drawn By:	Checked By:
Project Title: PRESCOTT POINT PLANNED UNIT RESORT DEVELOPMENT		Drawing Title: AERIAL PHOTOGRAPH		
Issued for: PERMITTING		Drawing Number: F-3	Project Number: 10068.0	

APPENDIX B WATERSHED MAPS

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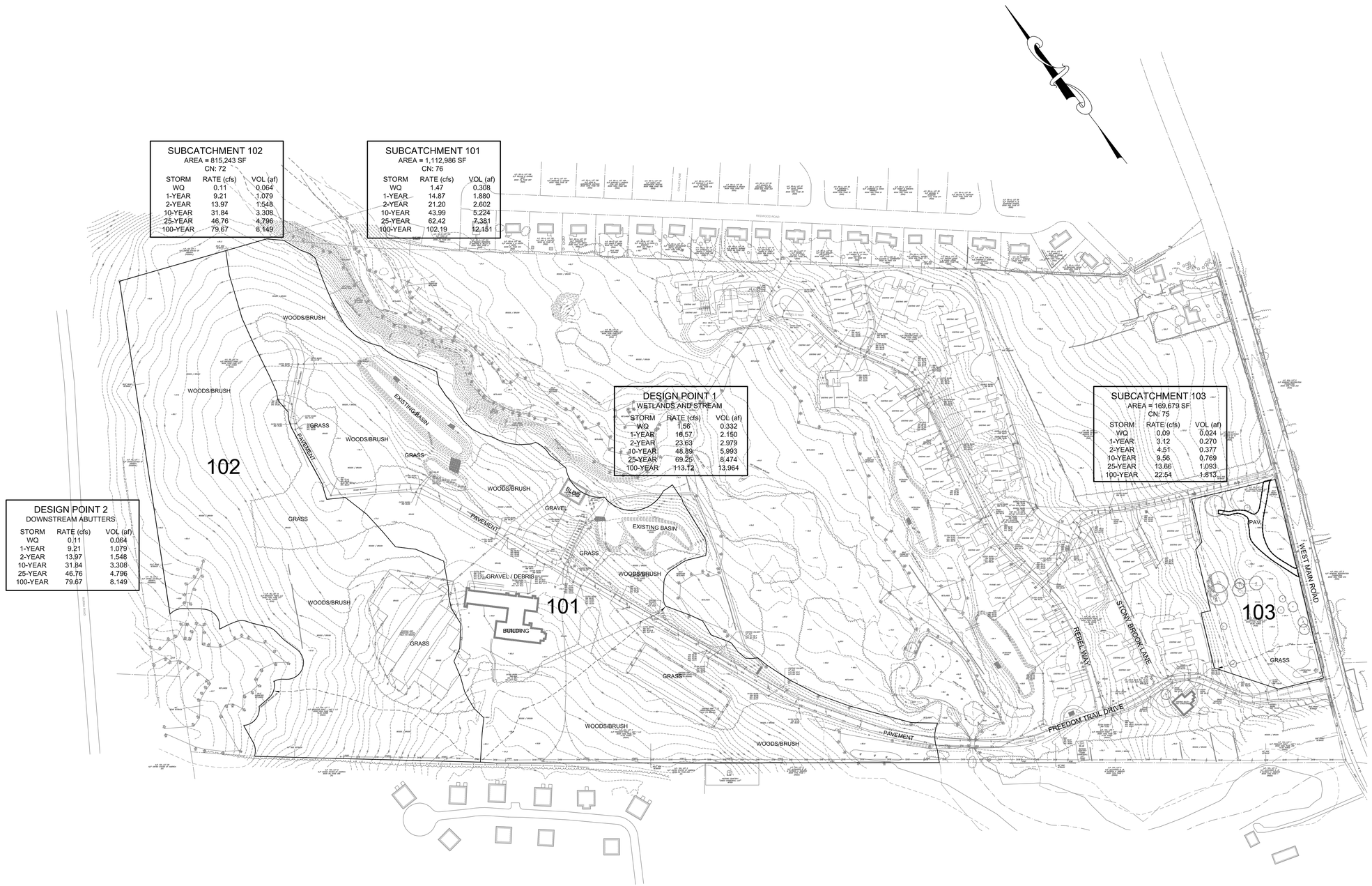

No.	Revision	Date	App.
6	RIDEM WETLANDS COMMENTS	09JAN19	
5	DRAINAGE REDESIGN	26SEP18	
4	RIDEM OWTS & WETLANDS REVISIONS	28JUL16	
3	RIDEM OWTS REVISIONS	18MAY16	
2	RIDEM WETLANDS & OWTS SUBMISSION	18FEB16	
1	MIDDLETOWN & RIDEM SUBMISSION	18DEC15	

Designed By: JJR/GES | Drawn by: JJR | Checked by: GES
Scale: 1"=150' | Date: 05OCT15

Project Title:

PRESCOTT POINT
WEST MAIN ROAD
A.P. 55 LOT 1A (PORTSMOUTH)
A.P. 104 LOT 7 (MIDDLETOWN)

Client/Owner:
PRESCOTT POINT, LLC
c/o LANDINGS REAL ESTATE GROUP
543 THAMES STREET
NEWPORT, RI 02840

Issued for:
PERMITTING

Drawing Title:
EXISTING WATERSHED PLAN

Drawing Number:

Sheet 1 of 1

Project Number:
10068.0

Survey Index:
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DESIGN POINT 1
WETLANDS AND STREAM

STORM	RATE (cfs)	VOL (af)
WQ	2.33	0.837
1-YEAR	7.87	2.814
2-YEAR	10.41	3.663
10-YEAR	36.63	6.715
25-YEAR	62.58	9.125
100-YEAR	112.48	14.329

DESIGN POINT 2
DOWNSTREAM ABUTTERS

STORM	RATE (cfs)	VOL (af)
WQ	1.83	0.413
1-YEAR	5.77	1.672
2-YEAR	7.27	2.279
10-YEAR	27.01	4.545
25-YEAR	40.52	6.394
100-YEAR	75.69	10.461

No.	Revision	Date	App.

Designed By: JJR/GES | Drawn by: JJR | Checked by: GES
Scale: 1"=150' | Date: 16NOV21

Project Title:

PRESCOTT POINT
WEST MAIN ROAD
A.P. 55 LOT 1A (PORTSMOUTH)
A.P. 104 LOT 7 (MIDDLETOWN)

Client/Owner:
PRESCOTT POINT, LLC
c/o LANDINGS REAL ESTATE GROUP
543 THAMES STREET
NEWPORT, RI 02840

Issued for:
PERMITTING

Drawing Title:

PROPOSED WATERSHED PLAN

Drawing Number:

Sheet 1 of 1

Project Number:
15129.0

Survey Index:
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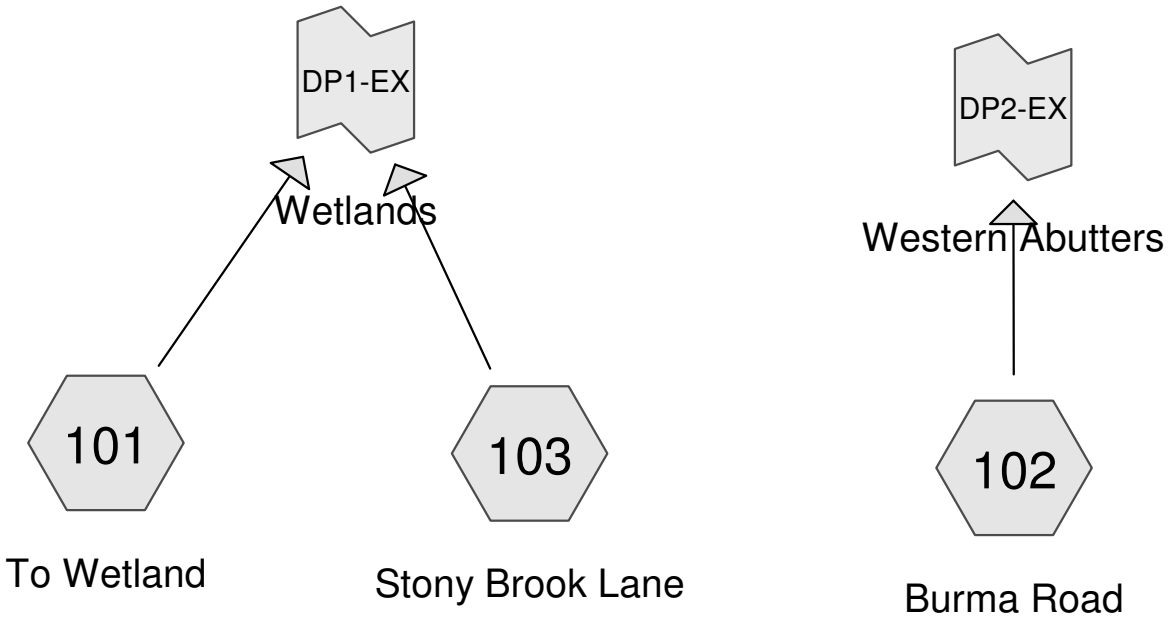
APPENDIX C EXISTING CONDITIONS HYDROCAD



Subcat Reach Pond Link

Routing Diagram for 10068 2021-11-17
Prepared by Northeast Engineers & Consultants, Inc., Printed 11/24/2021

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
16.382	74	>75% Grass cover, Good, HSG C (101, 102, 103)
0.069	98	Existing Plant (to remain) (101)
0.469	98	Existing Structure (to be demo'ed) (101)
0.216	89	Gravel (103)
2.669	89	Gravel, dirt (101)
1.451	98	Pavement (101)
26.905	72	Woods/grass comb., Good, HSG C (101, 102)

Summary for Subcatchment 101: To Wetland

Runoff = 14.87 cfs @ 12.40 hrs, Volume= 1.880 af, Depth= 0.88"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	20,447	98	Existing Structure (to be demo'ed)
*	3,024	98	Existing Plant (to remain)
*	63,226	98	Pavement
*	116,270	89	Gravel, dirt
	383,075	74	>75% Grass cover, Good, HSG C
	526,944	72	Woods/grass comb., Good, HSG C
	1,112,986	76	Weighted Average
	1,026,289	75	92.21% Pervious Area
	86,697	98	7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.7	100	0.0150	0.07		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.5	537	0.0480	3.53		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1					**Direct Entry, Pipes**
26.3	637	Total			

Summary for Subcatchment 102: Burma Road

Runoff = 9.21 cfs @ 12.30 hrs, Volume= 1.079 af, Depth= 0.69"
Routed to Link DP2-EX : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

Area (sf)	CN	Description
170,219	74	>75% Grass cover, Good, HSG C
645,024	72	Woods/grass comb., Good, HSG C
815,243	72	Weighted Average
815,243	72	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0375	0.10		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.2	573	0.0710	4.29		**Shallow Concentrated Flow, Woods** Unpaved Kv= 16.1 fps
18.6	673	Total			

Summary for Subcatchment 103: Stony Brook Lane

Runoff = 3.12 cfs @ 12.15 hrs, Volume= 0.270 af, Depth= 0.83"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	9,391	89	Gravel
	160,288	74	>75% Grass cover, Good, HSG C
	169,679	75	Weighted Average
	169,679	75	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	100	0.0250	0.19		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.7	197	0.0860	4.72		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
9.5	297	Total			

Summary for Link DP1-EX: Wetlands

Inflow Area = 29.446 ac, 6.76% Impervious, Inflow Depth = 0.88" for 1-YEAR event
Inflow = 16.57 cfs @ 12.38 hrs, Volume= 2.150 af
Primary = 16.57 cfs @ 12.38 hrs, Volume= 2.150 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-EX: Western Abutters

Inflow Area = 18.715 ac, 0.00% Impervious, Inflow Depth = 0.69" for 1-YEAR event
Inflow = 9.21 cfs @ 12.30 hrs, Volume= 1.079 af
Primary = 9.21 cfs @ 12.30 hrs, Volume= 1.079 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Subcatchment 101: To Wetland

Runoff = 43.99 cfs @ 12.36 hrs, Volume= 5.224 af, Depth= 2.45"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	20,447	98	Existing Structure (to be demo'ed)
*	3,024	98	Existing Plant (to remain)
*	63,226	98	Pavement
*	116,270	89	Gravel, dirt
	383,075	74	>75% Grass cover, Good, HSG C
	526,944	72	Woods/grass comb., Good, HSG C
	1,112,986	76	Weighted Average
	1,026,289	75	92.21% Pervious Area
	86,697	98	7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.7	100	0.0150	0.07		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.5	537	0.0480	3.53		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1					**Direct Entry, Pipes**
26.3	637	Total			

Summary for Subcatchment 102: Burma Road

Runoff = 31.84 cfs @ 12.26 hrs, Volume= 3.308 af, Depth= 2.12"
Routed to Link DP2-EX : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

Area (sf)	CN	Description
170,219	74	>75% Grass cover, Good, HSG C
645,024	72	Woods/grass comb., Good, HSG C
815,243	72	Weighted Average
815,243	72	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0375	0.10		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.2	573	0.0710	4.29		**Shallow Concentrated Flow, Woods** Unpaved Kv= 16.1 fps
18.6	673	Total			

Summary for Subcatchment 103: Stony Brook Lane

Runoff = 9.56 cfs @ 12.13 hrs, Volume= 0.769 af, Depth= 2.37"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	9,391	89	Gravel
	160,288	74	>75% Grass cover, Good, HSG C
	169,679	75	Weighted Average
	169,679	75	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	100	0.0250	0.19		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.7	197	0.0860	4.72		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
9.5	297	Total			

Summary for Link DP1-EX: Wetlands

Inflow Area = 29.446 ac, 6.76% Impervious, Inflow Depth = 2.44" for 10-YEAR event
Inflow = 48.89 cfs @ 12.36 hrs, Volume= 5.993 af
Primary = 48.89 cfs @ 12.36 hrs, Volume= 5.993 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-EX: Western Abutters

Inflow Area = 18.715 ac, 0.00% Impervious, Inflow Depth = 2.12" for 10-YEAR event
Inflow = 31.84 cfs @ 12.26 hrs, Volume= 3.308 af
Primary = 31.84 cfs @ 12.26 hrs, Volume= 3.308 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Subcatchment 101: To Wetland

Runoff = 102.19 cfs @ 12.36 hrs, Volume= 12.151 af, Depth= 5.71"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	20,447	98	Existing Structure (to be demo'ed)
*	3,024	98	Existing Plant (to remain)
*	63,226	98	Pavement
*	116,270	89	Gravel, dirt
	383,075	74	>75% Grass cover, Good, HSG C
	526,944	72	Woods/grass comb., Good, HSG C
	1,112,986	76	Weighted Average
	1,026,289	75	92.21% Pervious Area
	86,697	98	7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.7	100	0.0150	0.07		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.5	537	0.0480	3.53		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1					**Direct Entry, Pipes**
26.3	637	Total			

Summary for Subcatchment 102: Burma Road

Runoff = 79.67 cfs @ 12.25 hrs, Volume= 8.149 af, Depth= 5.22"
Routed to Link DP2-EX : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

Area (sf)	CN	Description
170,219	74	>75% Grass cover, Good, HSG C
645,024	72	Woods/grass comb., Good, HSG C
815,243	72	Weighted Average
815,243	72	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.4	100	0.0375	0.10		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
2.2	573	0.0710	4.29		**Shallow Concentrated Flow, Woods** Unpaved Kv= 16.1 fps
18.6	673	Total			

Summary for Subcatchment 103: Stony Brook Lane

Runoff = 22.54 cfs @ 12.13 hrs, Volume= 1.813 af, Depth= 5.59"
Routed to Link DP1-EX : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	9,391	89	Gravel
	160,288	74	>75% Grass cover, Good, HSG C
	169,679	75	Weighted Average
	169,679	75	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.8	100	0.0250	0.19		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.7	197	0.0860	4.72		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
9.5	297	Total			

Summary for Link DP1-EX: Wetlands

Inflow Area = 29.446 ac, 6.76% Impervious, Inflow Depth = 5.69" for 100-YEAR event
Inflow = 113.12 cfs @ 12.34 hrs, Volume= 13.964 af
Primary = 113.12 cfs @ 12.34 hrs, Volume= 13.964 af, Atten= 0%, Lag= 0.0 min

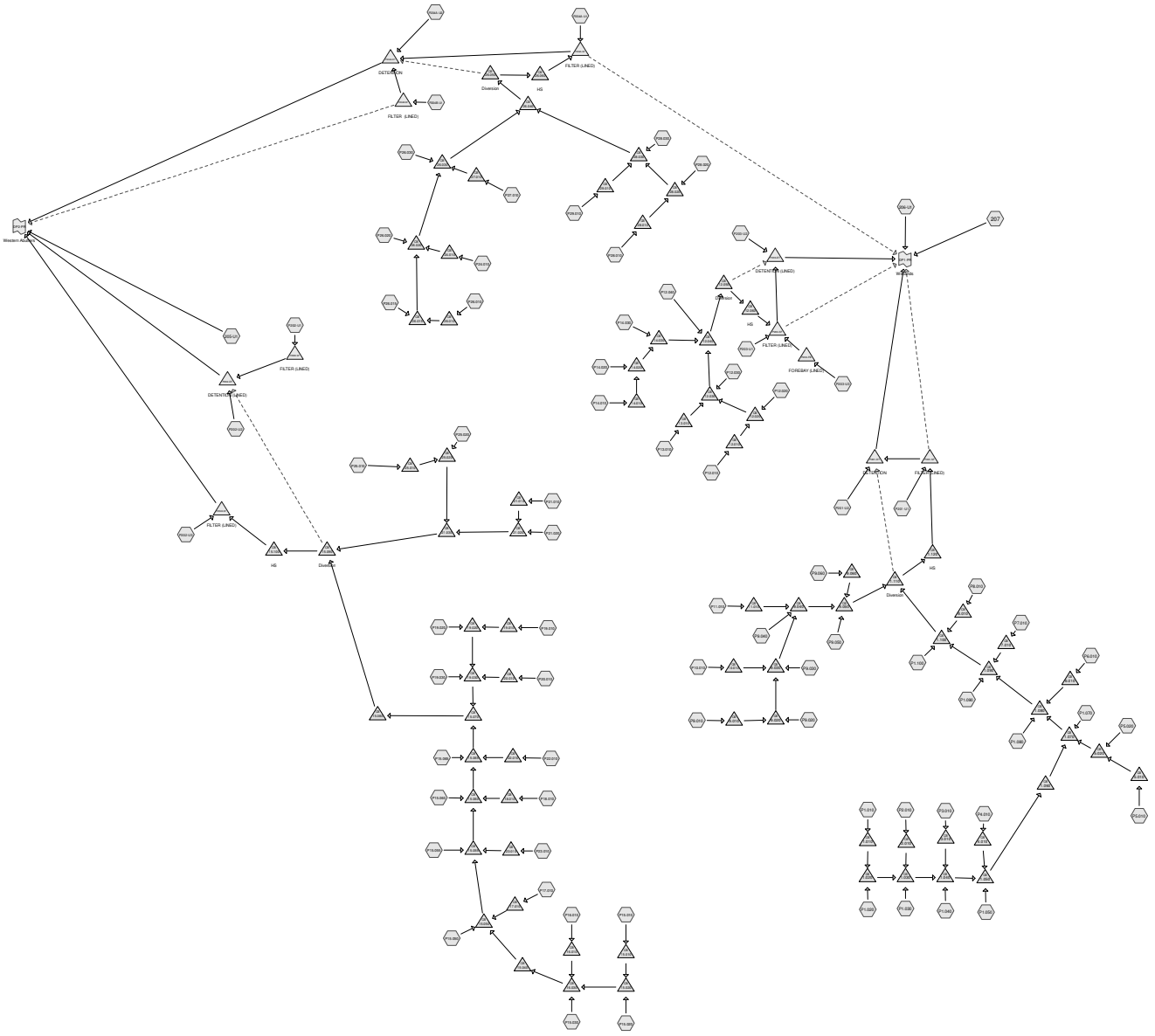
Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-EX: Western Abutters

Inflow Area = 18.715 ac, 0.00% Impervious, Inflow Depth = 5.22" for 100-YEAR event
Inflow = 79.67 cfs @ 12.25 hrs, Volume= 8.149 af
Primary = 79.67 cfs @ 12.25 hrs, Volume= 8.149 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

APPENDIX D PROPOSED CONDITIONS HYDROCAD



Subcat Reach Pond Link

Routing Diagram for 10068 2021-11-17
Prepared by Northeast Engineers & Consultants, Inc., Printed 11/24/2021
HydroCAD® 10.10-6a s/n 04733 © 2020 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
30.649	74	>75% Grass cover, Good, HSG C (205-U1, 206-U1, 207, P1.020, P1.030, P1.040, P1.050, P1.070, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P13.010, P14.010, P14.020, P14.030, P15.010, P15.020, P15.030, P15.050, P16.010, P17.010, P18.010, P19.010, P20.010, P201-U1, P201-U2, P202-U1, P202-U2, P202-U3, P203-U1, P203-U2, P203-U3, P204A-U1, P204A-U2, P204B-U1, P21.010, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P5.010, P5.020, P9.010, P9.040, P9.050)
0.332	98	Assisted Living (P10.010, P18.010, P23.010)
0.597	98	Basin (P201-U2)
0.057	98	Clubhouse (P1.080)
1.478	98	Detention Basin (P202-U2, P202-U3, P203-U2, P204A-U2)
2.241	98	Driveway (205-U1, 207, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P13.010, P14.010, P14.030, P16.010, P18.010, P19.010, P20.010, P202-U1, P202-U3, P203-U1, P203-U2, P204A-U1, P204B-U1, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P9.010, P9.040, P9.050)
0.439	89	Gravel Parking Lot (P203-U3)
4.042	98	Pavement (206-U1, P1.010, P1.020, P1.030, P1.040, P1.050, P1.070, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P12.020, P12.030, P12.040, P13.010, P14.010, P14.020, P14.030, P15.010, P15.020, P15.030, P15.050, P15.055, P15.060, P15.065, P16.010, P17.010, P18.010, P19.010, P19.020, P19.030, P2.010, P20.010, P21.010, P21.020, P22.010, P23.010, P24.010, P25.010, P25.020, P26.010, P26.015, P26.020, P26.030, P27.010, P28.010, P28.020, P28.030, P29.010, P3.010, P4.010, P5.010, P5.020, P6.010, P7.010, P8.010, P9.010, P9.020, P9.030, P9.040, P9.050, P9.060)
0.045	98	Pool and apron (P1.070, P1.080)
4.118	98	Residence (205-U1, 207, P1.080, P1.090, P1.100, P12.010, P13.010, P14.010, P14.030, P18.010, P19.010, P20.010, P202-U1, P202-U3, P203-U1, P203-U2, P204A-U1, P204B-U1, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P9.050)
0.600	98	Sand Filter (P201-U1, P202-U1, P202-U3, P203-U1, P204A-U1, P204B-U1)
0.020	98	Sediment Forebay (P203-U3)
0.331	98	Tennis (P1.100, P9.050)
0.046	98	Treatment Plant (206-U1)
3.165	72	Woods/grass comb., Good, HSG C (205-U1, 206-U1)

Summary for Subcatchment 205-U1:

Runoff = 3.03 cfs @ 12.10 hrs, Volume= 0.234 af, Depth= 0.83"
Routed to Link DP2-PR : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	54,855	72	Woods/grass comb., Good, HSG C
*	9,000	98	Residence
*	4,338	98	Driveway
	78,486	74	>75% Grass cover, Good, HSG C
	146,679	75	Weighted Average
	133,341	73	90.91% Pervious Area
	13,338	98	9.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.7	198	0.0750	4.41		**Shallow Concentrated Flow, Grass/Woods** Unpaved Kv= 16.1 fps
6.2	298	Total			

Summary for Subcatchment 206-U1:

Runoff = 2.37 cfs @ 12.25 hrs, Volume= 0.251 af, Depth= 0.83"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	83,026	72	Woods/grass comb., Good, HSG C
*	2,024	98	Treatment Plant
*	11,323	98	Pavement
	61,304	74	>75% Grass cover, Good, HSG C
	157,677	75	Weighted Average
	144,330	73	91.54% Pervious Area
	13,347	98	8.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	100	0.0900	0.14		**Sheet Flow, Woods** Woods: Light underbrush n= 0.400 P2= 3.30"
4.9	260	0.0030	0.88		**Shallow Concentrated Flow, Woods** Unpaved Kv= 16.1 fps
16.5	360	Total			

Summary for Subcatchment 207:

Runoff = 4.10 cfs @ 12.14 hrs, Volume= 0.339 af, Depth= 1.04"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	15,600	98	Residence
*	19,325	98	Driveway
	134,754	74	>75% Grass cover, Good, HSG C
	169,679	79	Weighted Average
	134,754	74	79.42% Pervious Area
	34,925	98	20.58% Impervious Area

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

Summary for Subcatchment P1.010:

Runoff = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af, Depth= 2.57"
Routed to Pond 1.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	808	98	Pavement
	808	98	100.00% Impervious Area

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

Summary for Subcatchment P1.020:

Runoff = 0.25 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 1.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,633	98	Pavement
	3,965	74	>75% Grass cover, Good, HSG C
	6,598	84	Weighted Average
	3,965	74	60.09% Pervious Area
	2,633	98	39.91% Impervious Area

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

Summary for Subcatchment P1.030:

Runoff = 0.24 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 1.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.040:

Runoff = 0.24 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 1.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.050:

Runoff = 0.24 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 1.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	3,814	74	>75% Grass cover, Good, HSG C
	6,422	84	Weighted Average
	3,814	74	59.39% Pervious Area
	2,608	98	40.61% Impervious Area

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

Summary for Subcatchment P1.070:

Runoff = 0.26 cfs @ 12.07 hrs, Volume= 0.018 af, Depth= 1.72"
Routed to Pond 1.070 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,440	98	Pavement
	2,001	74	>75% Grass cover, Good, HSG C
*	948	98	Pool and apron
	5,389	89	Weighted Average
	2,001	74	37.13% Pervious Area
	3,388	98	62.87% Impervious Area

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

Summary for Subcatchment P1.080:

Runoff = 1.40 cfs @ 12.11 hrs, Volume= 0.104 af, Depth= 1.22"
Routed to Pond 1.080 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,608	98	Pavement
*	2,500	98	Clubhouse
*	5,400	98	Residence
*	3,391	98	Driveway
	29,662	74	>75% Grass cover, Good, HSG C
*	1,025	98	Pool and apron
	44,586	82	Weighted Average
	29,662	74	66.53% Pervious Area
	14,924	98	33.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	100	0.1000	0.33		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.3	80	0.1000	5.09		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
7.0	380	Total			

Summary for Subcatchment P1.090:

Runoff = 1.92 cfs @ 12.14 hrs, Volume= 0.159 af, Depth= 1.04"
Routed to Pond 1.090 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
*	10,800	98	Residence
*	4,146	98	Driveway
	61,809	74	>75% Grass cover, Good, HSG C
	79,355	79	Weighted Average
	61,809	74	77.89% Pervious Area
	17,546	98	22.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	328	0.1000	5.09		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.4	628	Total			

Summary for Subcatchment P1.100:

Runoff = 2.13 cfs @ 12.16 hrs, Volume= 0.182 af, Depth= 1.10"
Routed to Pond 1.100 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	9,453	98	Pavement
*	7,847	98	Tennis
*	3,600	98	Residence
*	1,838	98	Driveway
	63,582	74	>75% Grass cover, Good, HSG C
	86,320	80	Weighted Average
	63,582	74	73.66% Pervious Area
	22,738	98	26.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	100	0.0300	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	267	0.0660	4.14		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.4	238	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.7	605	Total			

Summary for Subcatchment P10.010:

Runoff = 0.89 cfs @ 12.07 hrs, Volume= 0.061 af, Depth= 1.80"
Routed to Pond 10.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,945	98	Driveway
	6,140	74	>75% Grass cover, Good, HSG C
*	2,450	98	Pavement
*	7,225	98	Assisted Living
	17,760	90	Weighted Average
	6,140	74	34.57% Pervious Area
	11,620	98	65.43% Impervious Area

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

Summary for Subcatchment P11.010:

Runoff = 0.32 cfs @ 12.10 hrs, Volume= 0.023 af, Depth= 1.16"
Routed to Pond 11.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,629	98	Pavement
*	295	98	Driveway
	7,609	74	>75% Grass cover, Good, HSG C
	10,533	81	Weighted Average
	7,609	74	72.24% Pervious Area
	2,924	98	27.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.2	39	0.0600	3.94		**Shallow Concentrated Flow, Lawnd** Unpaved Kv= 16.1 fps
0.2	42	0.0400	4.06		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
6.6	181	Total			

Summary for Subcatchment P12.010:

Runoff = 2.97 cfs @ 12.13 hrs, Volume= 0.238 af, Depth= 1.10"
Routed to Pond 12.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	18,000	98	Residence
*	4,033	98	Driveway
*	4,853	98	Pavement
	85,882	74	>75% Grass cover, Good, HSG C
	112,768	80	Weighted Average
	85,882	74	76.16% Pervious Area
	26,886	98	23.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
2.3	470	0.0440	3.38		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	36	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.8	606	Total			

Summary for Subcatchment P12.020:

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.024 af, Depth= 2.57"
Routed to Pond 12.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	4,825	98	Pavement
	4,825	98	100.00% Impervious Area

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

Summary for Subcatchment P12.030:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 12.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,623	98	Pavement
	2,623	98	100.00% Impervious Area

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

Summary for Subcatchment P12.040:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 12.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,654	98	Pavement
	2,654	98	100.00% Impervious Area

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

Summary for Subcatchment P13.010:

Runoff = 0.63 cfs @ 12.18 hrs, Volume= 0.057 af, Depth= 1.16"
Routed to Pond 13.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,114	98	Pavement
*	3,600	98	Residence
*	1,390	98	Driveway
	18,432	74	>75% Grass cover, Good, HSG C
	25,536	81	Weighted Average
	18,432	74	72.18% Pervious Area
	7,104	98	27.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.6	69	0.0150	1.97		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.2	145	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
12.6	314	Total			

Summary for Subcatchment P14.010:

Runoff = 0.64 cfs @ 12.08 hrs, Volume= 0.044 af, Depth= 1.42"
Routed to Pond 14.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,511	98	Pavement
*	3,600	98	Residence
*	1,344	98	Driveway
	8,646	74	>75% Grass cover, Good, HSG C
	16,101	85	Weighted Average
	8,646	74	53.70% Pervious Area
	7,455	98	46.30% Impervious Area

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

Summary for Subcatchment P14.020:

Runoff = 0.32 cfs @ 12.08 hrs, Volume= 0.022 af, Depth= 1.10"
Routed to Pond 14.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,521	98	Pavement
	7,989	74	>75% Grass cover, Good, HSG C
	10,510	80	Weighted Average
	7,989	74	76.01% Pervious Area
	2,521	98	23.99% Impervious Area

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

Summary for Subcatchment P14.030:

Runoff = 0.44 cfs @ 12.18 hrs, Volume= 0.039 af, Depth= 1.22"
Routed to Pond 14.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,498	98	Pavement
*	1,800	98	Residence
*	937	98	Driveway
	11,310	74	>75% Grass cover, Good, HSG C
	16,545	82	Weighted Average
	11,310	74	68.36% Pervious Area
	5,235	98	31.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	59	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	132	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
12.3	291	Total			

Summary for Subcatchment P15.010:

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 1.97"
Routed to Pond 15.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	408	74	>75% Grass cover, Good, HSG C
*	1,115	98	Pavement
	1,523	92	Weighted Average
	408	74	26.79% Pervious Area
	1,115	98	73.21% Impervious Area

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

Summary for Subcatchment P15.020:

Runoff = 0.10 cfs @ 12.08 hrs, Volume= 0.007 af, Depth= 1.35"
Routed to Pond 15.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	1,627	74	>75% Grass cover, Good, HSG C
*	1,112	98	Pavement
	2,739	84	Weighted Average
	1,627	74	59.40% Pervious Area
	1,112	98	40.60% Impervious Area

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

Summary for Subcatchment P15.030:

Runoff = 0.24 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 16.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	3,799	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
	6,399	84	Weighted Average
	3,799	74	59.37% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P15.050:

Runoff = 0.20 cfs @ 12.07 hrs, Volume= 0.014 af, Depth= 1.80"
Routed to Pond 15.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	1,358	74	>75% Grass cover, Good, HSG C
*	2,627	98	Pavement
	3,985	90	Weighted Average
	1,358	74	34.08% Pervious Area
	2,627	98	65.92% Impervious Area

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

Summary for Subcatchment P15.055:

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 2.57"
Routed to Pond 15.055 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P15.060:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 15.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P15.065:

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 2.57"
Routed to Pond 15.065 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P16.010:

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 0.015 af, Depth= 1.80"
Routed to Pond 16.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	1,517	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
*	223	98	Driveway
	4,340	90	Weighted Average
	1,517	74	34.95% Pervious Area
	2,823	98	65.05% Impervious Area

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

Summary for Subcatchment P17.010:

Runoff = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 2.25"
Routed to Pond 17.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	346	74	>75% Grass cover, Good, HSG C
*	2,397	98	Pavement
	2,743	95	Weighted Average
	346	74	12.61% Pervious Area
	2,397	98	87.39% Impervious Area

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

Summary for Subcatchment P18.010:

Runoff = 2.28 cfs @ 12.13 hrs, Volume= 0.184 af, Depth= 0.93"
Routed to Pond 18.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,612	98	Assisted Living
*	5,400	98	Residence
*	1,671	98	Driveway
*	2,500	98	Pavement
	89,843	74	>75% Grass cover, Good, HSG C
	103,026	77	Weighted Average
	89,843	74	87.20% Pervious Area
	13,183	98	12.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.5	82	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.3	548	Total			

Summary for Subcatchment P19.010:

Runoff = 0.28 cfs @ 12.14 hrs, Volume= 0.023 af, Depth= 1.29"
Routed to Pond 19.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	672	98	Driveway
*	1,217	98	Pavement
	5,672	74	>75% Grass cover, Good, HSG C
	9,361	83	Weighted Average
	5,672	74	60.59% Pervious Area
	3,689	98	39.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	50	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.0	170	Total			

Summary for Subcatchment P19.020:

Runoff = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 2.57"
Routed to Pond 19.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,266	98	Pavement
	1,266	98	100.00% Impervious Area

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

Summary for Subcatchment P19.030:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 19.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P2.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 2.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P20.010:

Runoff = 0.62 cfs @ 12.15 hrs, Volume= 0.052 af, Depth= 1.29"
Routed to Pond 20.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,344	98	Driveway
*	2,600	98	Pavement
	13,626	74	>75% Grass cover, Good, HSG C
	21,170	83	Weighted Average
	13,626	74	64.36% Pervious Area
	7,544	98	35.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	94	0.0400	3.22		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	104	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.7	298	Total			

Summary for Subcatchment P201-U1:

Runoff = 0.81 cfs @ 12.08 hrs, Volume= 0.056 af, Depth= 1.29"
Routed to Pond P201-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	8,455	98	Sand Filter
	14,316	74	>75% Grass cover, Good, HSG C
	22,771	83	Weighted Average
	14,316	74	62.87% Pervious Area
	8,455	98	37.13% Impervious Area

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

Summary for Subcatchment P201-U2:

Runoff = 1.93 cfs @ 12.07 hrs, Volume= 0.135 af, Depth= 1.97"
Routed to Pond P201-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	26,017	98	Basin
	9,639	74	>75% Grass cover, Good, HSG C
	35,656	92	Weighted Average
	9,639	74	27.03% Pervious Area
	26,017	98	72.97% Impervious Area

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

Summary for Subcatchment P202-U1:

Runoff = 1.29 cfs @ 12.10 hrs, Volume= 0.096 af, Depth= 1.10"
Routed to Pond P202B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	7,200	98	Residence
*	2,705	98	Driveway
*	35,036	74	>75% Grass cover, Good, HSG C
*	622	98	Sand Filter
	45,563	80	Weighted Average
	35,036	74	76.90% Pervious Area
	10,527	98	23.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.8	181	0.0550	3.78		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.6	281	Total			

Summary for Subcatchment P202-U2:

Runoff = 1.23 cfs @ 12.10 hrs, Volume= 0.091 af, Depth= 1.72"
Routed to Pond P202-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	10,612	74	>75% Grass cover, Good, HSG C
*	17,157	98	Detention Basin
	27,769	89	Weighted Average
	10,612	74	38.22% Pervious Area
	17,157	98	61.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Lawns**
					Grass: Short n= 0.150 P2= 3.30"
0.4	90	0.0667	4.16		**Shallow Concentrated Flow, Lawnd**
					Unpaved Kv= 16.1 fps
7.1	190	Total			

Summary for Subcatchment P202-U3:

Runoff = 3.13 cfs @ 12.11 hrs, Volume= 0.234 af, Depth= 1.22"
Routed to Pond P202A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	12,758	98	Detention Basin
	66,887	74	>75% Grass cover, Good, HSG C
*	10,800	98	Residence
*	4,079	98	Driveway
*	5,600	98	Sand Filter
	100,124	82	Weighted Average
	66,887	74	66.80% Pervious Area
	33,237	98	33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawns** Grass: Short n= 0.150 P2= 3.30"
1.0	235	0.0638	4.07		**Shallow Concentrated Flow, Lawns** Unpaved Kv= 16.1 fps
7.2	335	Total			

Summary for Subcatchment P203-U1:

Runoff = 2.08 cfs @ 12.09 hrs, Volume= 0.149 af, Depth= 1.10"
Routed to Pond P203-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,577	98	Driveway
*	5,319	98	Sand Filter
	52,895	74	>75% Grass cover, Good, HSG C
	70,791	80	Weighted Average
	52,895	74	74.72% Pervious Area
	17,896	98	25.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	67	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
5.7	167	Total			

Summary for Subcatchment P203-U2:

Runoff = 2.54 cfs @ 12.09 hrs, Volume= 0.181 af, Depth= 1.35"
Routed to Pond P203-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,173	98	Driveway
*	15,076	98	Detention Basin
	39,786	74	>75% Grass cover, Good, HSG C
	69,835	84	Weighted Average
	39,786	74	56.97% Pervious Area
	30,049	98	43.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.2	63	0.1100	5.34		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.0	163	Total			

Summary for Subcatchment P203-U3:

Runoff = 1.33 cfs @ 12.08 hrs, Volume= 0.092 af, Depth= 1.22"
Routed to Pond P203-FB : FOREBAY (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	19,103	89	Gravel Parking Lot
*	871	98	Sediment Forebay
	19,326	74	>75% Grass cover, Good, HSG C
	39,300	82	Weighted Average
	38,429	81	97.78% Pervious Area
	871	98	2.22% Impervious Area

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

Summary for Subcatchment P204A-U1:

Runoff = 1.81 cfs @ 12.12 hrs, Volume= 0.142 af, Depth= 1.10"
Routed to Pond P204A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,472	98	Driveway
*	4,795	98	Sand Filter
	50,283	74	>75% Grass cover, Good, HSG C
	67,550	80	Weighted Average
	50,283	74	74.44% Pervious Area
	17,267	98	25.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	38	0.3300	9.25		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
2.0	281	0.0210	2.33		**Shallow Concentrated Flow, Swale**
					Unpaved Kv= 16.1 fps
8.3	419	Total			

Summary for Subcatchment P204A-U2:

Runoff = 1.36 cfs @ 12.11 hrs, Volume= 0.101 af, Depth= 1.64"
Routed to Pond P204A-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	19,412	98	Detention Basin
	12,890	74	>75% Grass cover, Good, HSG C
	32,302	88	Weighted Average
	12,890	74	39.90% Pervious Area
	19,412	98	60.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	50	0.1600	6.44		**Shallow Concentrated Flow, Lawn** Unpaved Kv= 16.1 fps
7.4	150	Total			

Summary for Subcatchment P204B-U1:

Runoff = 2.06 cfs @ 12.13 hrs, Volume= 0.164 af, Depth= 1.04"
Routed to Pond P204B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,106	98	Driveway
*	1,350	98	Sand Filter
	65,774	74	>75% Grass cover, Good, HSG C
	82,030	79	Weighted Average
	65,774	74	80.18% Pervious Area
	16,256	98	19.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	55	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.5	233	0.0250	2.55		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
8.4	388	Total			

Summary for Subcatchment P21.010:

Runoff = 0.18 cfs @ 12.14 hrs, Volume= 0.015 af, Depth= 1.16"
Routed to Pond 21.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,965	98	Pavement
	4,641	74	>75% Grass cover, Good, HSG C
	6,606	81	Weighted Average
	4,641	74	70.25% Pervious Area
	1,965	98	29.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"

Summary for Subcatchment P21.020:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 2.57"
Routed to Pond 21.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,042	98	Pavement
	1,042	98	100.00% Impervious Area

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

Summary for Subcatchment P22.010:

Runoff = 1.31 cfs @ 12.14 hrs, Volume= 0.113 af, Depth= 0.83"
Routed to Pond 22.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,300	98	Pavement
*	1,800	98	Residence
*	672	98	Driveway
	67,347	74	>75% Grass cover, Good, HSG C
	71,119	75	Weighted Average
	67,347	74	94.70% Pervious Area
	3,772	98	5.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.0450	0.24		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
2.4	437	0.0360	3.05		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
9.4	537	Total			

Summary for Subcatchment P23.010:

Runoff = 2.26 cfs @ 12.10 hrs, Volume= 0.167 af, Depth= 1.49"
Routed to Pond 23.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	3,612	98	Assisted Living
*	12,524	98	Driveway
*	1,285	98	Pavement
	30,293	74	>75% Grass cover, Good, HSG C
	58,514	86	Weighted Average
	30,293	74	51.77% Pervious Area
	28,221	98	48.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, 95% grass** Unpaved Kv= 16.1 fps
7.1	466	Total			

Summary for Subcatchment P24.010:

Runoff = 0.59 cfs @ 12.16 hrs, Volume= 0.051 af, Depth= 1.22"
Routed to Pond 24.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,562	98	Driveway
	14,626	74	>75% Grass cover, Good, HSG C
*	1,908	98	Pavement
	21,696	82	Weighted Average
	14,626	74	67.41% Pervious Area
	7,070	98	32.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	67	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	135	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
11.2	302	Total			

Summary for Subcatchment P25.010:

Runoff = 0.31 cfs @ 12.07 hrs, Volume= 0.024 af, Depth= 2.57"
Routed to Pond 25.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	4,843	98	Pavement
	4,843	98	100.00% Impervious Area

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

Summary for Subcatchment P25.020:

Runoff = 0.97 cfs @ 12.16 hrs, Volume= 0.084 af, Depth= 1.04"
Routed to Pond 25.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,365	98	Driveway
*	4,581	98	Pavement
	32,695	74	>75% Grass cover, Good, HSG C
	42,241	79	Weighted Average
	32,695	74	77.40% Pervious Area
	9,546	98	22.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	104	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.8	102	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.9	306	Total			

Summary for Subcatchment P26.010:

Runoff = 0.26 cfs @ 12.12 hrs, Volume= 0.020 af, Depth= 1.29"
Routed to Pond 26.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,800	98	Residence
	5,090	74	>75% Grass cover, Good, HSG C
*	470	98	Pavement
*	707	98	Driveway
	8,067	83	Weighted Average
	5,090	74	63.10% Pervious Area
	2,977	98	36.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	100	0.0330	0.21		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	87	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
8.3	187	Total			

Summary for Subcatchment P26.015:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 2.57"
Routed to Pond 26.015 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	476	98	Pavement
	476	98	100.00% Impervious Area

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

Summary for Subcatchment P26.020:

Runoff = 0.12 cfs @ 12.07 hrs, Volume= 0.010 af, Depth= 2.57"
Routed to Pond 26.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,936	98	Pavement
	1,936	98	100.00% Impervious Area

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

Summary for Subcatchment P26.030:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 2.57"
Routed to Pond 26.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	4,725	98	Pavement
	4,725	98	100.00% Impervious Area

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

Summary for Subcatchment P27.010:

Runoff = 0.67 cfs @ 12.11 hrs, Volume= 0.051 af, Depth= 1.16"
Routed to Pond 27.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	732	98	Driveway
	15,918	74	>75% Grass cover, Good, HSG C
*	4,381	98	Pavement
	22,831	81	Weighted Average
	15,918	74	69.72% Pervious Area
	6,913	98	30.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	63	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.4	50	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.4	213	Total			

Summary for Subcatchment P28.010:

Runoff = 0.59 cfs @ 12.15 hrs, Volume= 0.050 af, Depth= 1.29"
Routed to Pond 28.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,748	98	Driveway
	12,998	74	>75% Grass cover, Good, HSG C
*	1,788	98	Pavement
	20,134	83	Weighted Average
	12,998	74	64.56% Pervious Area
	7,136	98	35.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	35	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.7	127	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.6	262	Total			

Summary for Subcatchment P28.020:

Runoff = 0.11 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 2.57"
Routed to Pond 28.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	1,778	98	Pavement
	1,778	98	100.00% Impervious Area

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

Summary for Subcatchment P28.030:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 28.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P29.010:

Runoff = 0.67 cfs @ 12.12 hrs, Volume= 0.052 af, Depth= 1.29"
Routed to Pond 29.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,558	98	Driveway
	13,416	74	>75% Grass cover, Good, HSG C
*	2,602	98	Pavement
	21,176	83	Weighted Average
	13,416	74	63.35% Pervious Area
	7,760	98	36.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0350	0.22		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	10	0.0400	3.22		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.7	122	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.5	232	Total			

Summary for Subcatchment P3.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 3.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P4.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 4.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	2,608	98	100.00% Impervious Area

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

Summary for Subcatchment P5.010:

Runoff = 0.48 cfs @ 12.07 hrs, Volume= 0.033 af, Depth= 1.72"
Routed to Pond 5.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	6,272	98	Pavement
	3,653	74	>75% Grass cover, Good, HSG C
	9,925	89	Weighted Average
	3,653	74	36.81% Pervious Area
	6,272	98	63.19% Impervious Area

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

Summary for Subcatchment P5.020:

Runoff = 0.25 cfs @ 12.08 hrs, Volume= 0.017 af, Depth= 1.35"
Routed to Pond 5.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
	3,861	74	>75% Grass cover, Good, HSG C
*	2,746	98	Pavement
	6,607	84	Weighted Average
	3,861	74	58.44% Pervious Area
	2,746	98	41.56% Impervious Area

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

Summary for Subcatchment P6.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 6.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P7.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 7.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,625	98	Pavement
	2,625	98	100.00% Impervious Area

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

Summary for Subcatchment P8.010:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 8.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,646	98	Pavement
	2,646	98	100.00% Impervious Area

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

Summary for Subcatchment P9.010:

Runoff = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af, Depth= 1.80"
Routed to Pond 9.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,258	98	Pavement
*	4,375	98	Driveway
	3,947	74	>75% Grass cover, Good, HSG C
	11,580	90	Weighted Average
	3,947	74	34.08% Pervious Area
	7,633	98	65.92% Impervious Area

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

Summary for Subcatchment P9.020:

Runoff = 0.14 cfs @ 12.07 hrs, Volume= 0.011 af, Depth= 2.57"
Routed to Pond 9.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,192	98	Pavement
	2,192	98	100.00% Impervious Area

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

Summary for Subcatchment P9.030:

Runoff = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 2.57"
Routed to Pond 9.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,586	98	Pavement
	2,586	98	100.00% Impervious Area

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

Summary for Subcatchment P9.040:

Runoff = 0.39 cfs @ 12.08 hrs, Volume= 0.027 af, Depth= 1.35"
Routed to Pond 9.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,570	98	Pavement
*	1,648	98	Driveway
	6,243	74	>75% Grass cover, Good, HSG C
	10,461	84	Weighted Average
	6,243	74	59.68% Pervious Area
	4,218	98	40.32% Impervious Area

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

Summary for Subcatchment P9.050:

Runoff = 1.61 cfs @ 12.13 hrs, Volume= 0.128 af, Depth= 1.29"
Routed to Pond 9.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	3,077	98	Pavement
*	6,552	98	Tennis
*	9,000	98	Residence
*	1,723	98	Driveway
	31,697	74	>75% Grass cover, Good, HSG C
	52,049	83	Weighted Average
	31,697	74	60.90% Pervious Area
	20,352	98	39.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	354	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.2	20	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.1	474	Total			

Summary for Subcatchment P9.060:

Runoff = 0.18 cfs @ 12.07 hrs, Volume= 0.014 af, Depth= 2.57"
Routed to Pond 9.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-YEAR Rainfall=2.80"

	Area (sf)	CN	Description
*	2,836	98	Pavement
	2,836	98	100.00% Impervious Area

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

Summary for Pond 1.010:

Inflow Area = 0.019 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af
Outflow = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af
Routed to Pond 1.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.32' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.21' / 88.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.05 cfs @ 12.07 hrs HW=88.32' TW=87.75' (Dynamic Tailwater)
↑—**1=12" ADS** (Barrel Controls 0.05 cfs @ 1.62 fps)

Summary for Pond 1.020:

Inflow Area = 0.170 ac, 46.46% Impervious, Inflow Depth = 1.49" for 1-YEAR event
Inflow = 0.30 cfs @ 12.08 hrs, Volume= 0.021 af
Outflow = 0.30 cfs @ 12.08 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.08 hrs, Volume= 0.021 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 87.75' @ 12.08 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.51'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.51' / 85.51' S= 0.0101 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.30 cfs @ 12.08 hrs HW=87.75' TW=85.63' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.30 cfs @ 1.66 fps)

Summary for Pond 1.030:

Inflow Area = 0.377 ac, 52.67% Impervious, Inflow Depth = 1.61" for 1-YEAR event
Inflow = 0.71 cfs @ 12.07 hrs, Volume= 0.050 af
Outflow = 0.71 cfs @ 12.07 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.71 cfs @ 12.07 hrs, Volume= 0.050 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.63' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.26'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.26' / 83.19' S= 0.0105 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.71 cfs @ 12.07 hrs HW=85.63' TW=80.90' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.71 cfs @ 2.07 fps)

Summary for Pond 1.040:

Inflow Area = 0.583 ac, 54.48% Impervious, Inflow Depth = 1.64" for 1-YEAR event
Inflow = 1.12 cfs @ 12.07 hrs, Volume= 0.080 af
Outflow = 1.12 cfs @ 12.07 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 1.12 cfs @ 12.07 hrs, Volume= 0.080 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 80.90' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	80.43'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 80.43' / 69.54' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.11 cfs @ 12.07 hrs HW=80.90' TW=67.26' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.11 cfs @ 2.34 fps)

Summary for Pond 1.050:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 1.66" for 1-YEAR event
Inflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Outflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Routed to Pond 1.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.26' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.70'	**18.0" Round 18" ADS** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 66.70' / 61.75' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.52 cfs @ 12.07 hrs HW=67.26' TW=62.06' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.52 cfs @ 2.54 fps)

Summary for Pond 1.060:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 1.66" for 1-YEAR event
Inflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Outflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.06' @ 12.07 hrs
Flood Elev= 67.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	**18.0" Round 18" ADS** L= 98.0' Ke= 0.500 Inlet / Outlet Invert= 61.50' / 57.80' S= 0.0378 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.52 cfs @ 12.07 hrs HW=62.06' TW=58.04' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.52 cfs @ 2.54 fps)

Summary for Pond 1.070:

Inflow Area = 1.294 ac, 55.83% Impervious, Inflow Depth = 1.64" for 1-YEAR event
Inflow = 2.51 cfs @ 12.07 hrs, Volume= 0.177 af
Outflow = 2.51 cfs @ 12.07 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min
Primary = 2.51 cfs @ 12.07 hrs, Volume= 0.177 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.05' @ 12.08 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.30'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.30' / 57.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.47 cfs @ 12.07 hrs HW=58.04' TW=57.70' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 2.47 cfs @ 3.44 fps)

Summary for Pond 1.080:

Inflow Area = 2.377 ac, 47.31% Impervious, Inflow Depth = 1.48" for 1-YEAR event
Inflow = 4.01 cfs @ 12.08 hrs, Volume= 0.294 af
Outflow = 4.01 cfs @ 12.08 hrs, Volume= 0.294 af, Atten= 0%, Lag= 0.0 min
Primary = 4.01 cfs @ 12.08 hrs, Volume= 0.294 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.70' @ 12.08 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.85'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 56.85' / 54.87' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.00 cfs @ 12.08 hrs HW=57.70' TW=55.67' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 4.00 cfs @ 3.14 fps)

Summary for Pond 1.090:

Inflow Area = 4.259 ac, 37.28% Impervious, Inflow Depth = 1.31" for 1-YEAR event
Inflow = 5.87 cfs @ 12.10 hrs, Volume= 0.465 af
Outflow = 5.87 cfs @ 12.10 hrs, Volume= 0.465 af, Atten= 0%, Lag= 0.0 min
Primary = 5.87 cfs @ 12.10 hrs, Volume= 0.465 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.67' @ 12.10 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.62'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 54.62' / 52.64' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.86 cfs @ 12.10 hrs HW=55.67' TW=53.77' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 5.86 cfs @ 3.49 fps)

Summary for Pond 1.100:

Inflow Area = 6.301 ac, 34.44% Impervious, Inflow Depth = 1.26" for 1-YEAR event
Inflow = 7.90 cfs @ 12.11 hrs, Volume= 0.660 af
Outflow = 7.90 cfs @ 12.11 hrs, Volume= 0.660 af, Atten= 0%, Lag= 0.0 min
Primary = 7.90 cfs @ 12.11 hrs, Volume= 0.660 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.78' @ 12.11 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.39'	**30.0" Round 30" ADS** L= 124.0' Ke= 0.500 Inlet / Outlet Invert= 52.39' / 51.46' S= 0.0075 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.90 cfs @ 12.11 hrs HW=53.78' TW=53.10' (Dynamic Tailwater)
↑—**1=30" ADS** (Outlet Controls 7.90 cfs @ 4.08 fps)

Summary for Pond 1.110: Diversion

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 1.33" for 1-YEAR event
Inflow = 11.93 cfs @ 12.10 hrs, Volume= 0.977 af
Outflow = 11.93 cfs @ 12.10 hrs, Volume= 0.977 af, Atten= 0%, Lag= 0.0 min
Primary = 7.35 cfs @ 12.10 hrs, Volume= 0.902 af
Routed to Pond 1.120 : HS
Secondary = 4.59 cfs @ 12.10 hrs, Volume= 0.075 af
Routed to Pond P201-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.10' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	51.21'	**18.0" Round 18" ADS to 201-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 51.21' / 51.11' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Secondary	52.25'	**30.0" Round 30" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 52.25' / 50.25' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.33 cfs @ 12.10 hrs HW=53.09' TW=52.35' (Dynamic Tailwater)
↑—**1=18" ADS to 201-SF Separator** (Inlet Controls 7.33 cfs @ 4.15 fps)

Secondary OutFlow Max=4.58 cfs @ 12.10 hrs HW=53.10' TW=48.12' (Dynamic Tailwater)
↑—**2=30" ADS** (Inlet Controls 4.58 cfs @ 3.13 fps)

Summary for Pond 1.120: HS

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 1.23" for 1-YEAR event
Inflow = 7.35 cfs @ 12.10 hrs, Volume= 0.902 af
Outflow = 7.35 cfs @ 12.10 hrs, Volume= 0.902 af, Atten= 0%, Lag= 0.0 min
Primary = 7.35 cfs @ 12.10 hrs, Volume= 0.902 af
Routed to Pond P201-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.35' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.86'	**18.0" Round 18" ADS** L= 80.0' Ke= 0.500 Inlet / Outlet Invert= 50.86' / 50.00' S= 0.0107 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=7.34 cfs @ 12.10 hrs HW=52.35' TW=50.08' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 7.34 cfs @ 4.16 fps)

Summary for Pond 2.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.42' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	86.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 86.21' / 86.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=86.42' TW=85.63' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.17 fps)

Summary for Pond 3.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 84.10' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	83.89'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 83.89' / 83.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=84.10' TW=80.90' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.17 fps)

Summary for Pond 4.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 70.45' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	70.24'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 70.24' / 70.04' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=70.45' TW=67.26' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.17 fps)

Summary for Pond 5.010:

Inflow Area = 0.228 ac, 63.19% Impervious, Inflow Depth = 1.72" for 1-YEAR event
Inflow = 0.48 cfs @ 12.07 hrs, Volume= 0.033 af
Outflow = 0.48 cfs @ 12.07 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min
Primary = 0.48 cfs @ 12.07 hrs, Volume= 0.033 af
Routed to Pond 5.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.64' @ 12.07 hrs
Flood Elev= 62.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.30'	**12.0" Round 12" ADS** L= 55.0' Ke= 0.500 Inlet / Outlet Invert= 59.30' / 58.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.47 cfs @ 12.07 hrs HW=59.64' TW=58.96' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 0.47 cfs @ 1.99 fps)

Summary for Pond 5.020:

Inflow Area = 0.380 ac, 54.55% Impervious, Inflow Depth = 1.57" for 1-YEAR event
Inflow = 0.72 cfs @ 12.07 hrs, Volume= 0.050 af
Outflow = 0.72 cfs @ 12.07 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.07 hrs, Volume= 0.050 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.96' @ 12.07 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.50' / 58.30' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.72 cfs @ 12.07 hrs HW=58.96' TW=58.04' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.72 cfs @ 3.00 fps)

Summary for Pond 6.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.51' @ 12.07 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.30' / 58.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=58.51' TW=57.70' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.17 fps)

Summary for Pond 7.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.10' @ 12.07 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.92'	**20.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 59.92' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 2.18 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=60.10' TW=55.65' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.06 fps)

Summary for Pond 8.010:

Inflow Area = 0.061 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.13' @ 12.07 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.92'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.92' / 61.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.07 hrs HW=62.13' TW=53.70' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.17 cfs @ 2.18 fps)

Summary for Pond 9.010:

Inflow Area = 0.266 ac, 65.92% Impervious, Inflow Depth = 1.80" for 1-YEAR event
Inflow = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af
Outflow = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min
Primary = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af
Routed to Pond 9.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.95' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.54'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 85.54' / 85.34' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.58 cfs @ 12.07 hrs HW=85.95' TW=85.46' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.58 cfs @ 2.86 fps)

Summary for Pond 9.020:

Inflow Area = 0.316 ac, 71.34% Impervious, Inflow Depth = 1.92" for 1-YEAR event
Inflow = 0.72 cfs @ 12.07 hrs, Volume= 0.051 af
Outflow = 0.72 cfs @ 12.07 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.07 hrs, Volume= 0.051 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.46' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.09'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.09' / 76.29' S= 0.0444 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.72 cfs @ 12.07 hrs HW=85.46' TW=76.65' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.72 cfs @ 2.08 fps)

Summary for Pond 9.030:

Inflow Area = 0.783 ac, 70.43% Impervious, Inflow Depth = 1.91" for 1-YEAR event
Inflow = 1.77 cfs @ 12.07 hrs, Volume= 0.125 af
Outflow = 1.77 cfs @ 12.07 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
Primary = 1.77 cfs @ 12.07 hrs, Volume= 0.125 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 76.65' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.04'	**18.0" Round 18" ADS** L= 195.0' Ke= 0.500 Inlet / Outlet Invert= 76.04' / 65.39' S= 0.0546 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.77 cfs @ 12.07 hrs HW=76.65' TW=65.87' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.77 cfs @ 2.65 fps)

Summary for Pond 9.040:

Inflow Area = 1.265 ac, 56.56% Impervious, Inflow Depth = 1.66" for 1-YEAR event
Inflow = 2.47 cfs @ 12.08 hrs, Volume= 0.175 af
Outflow = 2.47 cfs @ 12.08 hrs, Volume= 0.175 af, Atten= 0%, Lag= 0.0 min
Primary = 2.47 cfs @ 12.08 hrs, Volume= 0.175 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.87' @ 12.08 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.14'	**18.0" Round 18" ADS** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 65.14' / 61.24' S= 0.0205 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.46 cfs @ 12.08 hrs HW=65.87' TW=61.95' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 2.46 cfs @ 2.90 fps)

Summary for Pond 9.050:

Inflow Area = 2.525 ac, 49.42% Impervious, Inflow Depth = 1.51" for 1-YEAR event
Inflow = 4.07 cfs @ 12.09 hrs, Volume= 0.317 af
Outflow = 4.07 cfs @ 12.09 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min
Primary = 4.07 cfs @ 12.09 hrs, Volume= 0.317 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.96' @ 12.09 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.99'	**18.0" Round 18" ADS** L= 92.0' Ke= 0.500 Inlet / Outlet Invert= 60.99' / 56.39' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.07 cfs @ 12.09 hrs HW=61.96' TW=53.09' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 4.07 cfs @ 3.36 fps)

Summary for Pond 9.060:

Inflow Area = 0.065 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.18 cfs @ 12.07 hrs, Volume= 0.014 af
Outflow = 0.18 cfs @ 12.07 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.07 hrs, Volume= 0.014 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.13' @ 12.07 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.92'	**12.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.92' / 62.92' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.07 hrs HW=64.13' TW=61.94' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.18 cfs @ 1.55 fps)

Summary for Pond 10.010:

Inflow Area = 0.408 ac, 65.43% Impervious, Inflow Depth = 1.80" for 1-YEAR event
Inflow = 0.89 cfs @ 12.07 hrs, Volume= 0.061 af
Outflow = 0.89 cfs @ 12.07 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.89 cfs @ 12.07 hrs, Volume= 0.061 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.51' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.99'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.99' / 76.79' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.89 cfs @ 12.07 hrs HW=77.51' TW=76.65' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.89 cfs @ 3.13 fps)

Summary for Pond 11.010:

Inflow Area = 0.242 ac, 27.76% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 0.32 cfs @ 12.10 hrs, Volume= 0.023 af
Outflow = 0.32 cfs @ 12.10 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.10 hrs, Volume= 0.023 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.38' @ 12.10 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.09'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.09' / 65.89' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.10 hrs HW=66.38' TW=65.85' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.32 cfs @ 2.51 fps)

Summary for Pond 12.010:

Inflow Area = 2.589 ac, 23.84% Impervious, Inflow Depth = 1.10" for 1-YEAR event
Inflow = 2.97 cfs @ 12.13 hrs, Volume= 0.238 af
Outflow = 2.97 cfs @ 12.13 hrs, Volume= 0.238 af, Atten= 0%, Lag= 0.0 min
Primary = 2.97 cfs @ 12.13 hrs, Volume= 0.238 af
Routed to Pond 12.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.27' @ 12.13 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.47' / 61.27' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.97 cfs @ 12.13 hrs HW=62.27' TW=61.77' (Dynamic Tailwater)
1=24" ADS (Barrel Controls 2.97 cfs @ 3.73 fps)

Summary for Pond 12.020:

Inflow Area = 2.700 ac, 26.97% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 3.21 cfs @ 12.12 hrs, Volume= 0.261 af
Outflow = 3.21 cfs @ 12.12 hrs, Volume= 0.261 af, Atten= 0%, Lag= 0.0 min
Primary = 3.21 cfs @ 12.12 hrs, Volume= 0.261 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.77' @ 12.12 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.02'	**24.0" Round 24" ADS** L= 148.0' Ke= 0.500 Inlet / Outlet Invert= 61.02' / 59.57' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.21 cfs @ 12.12 hrs HW=61.77' TW=60.06' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 3.21 cfs @ 2.96 fps)

Summary for Pond 12.030:

Inflow Area = 3.346 ac, 28.43% Impervious, Inflow Depth = 1.19" for 1-YEAR event
Inflow = 3.91 cfs @ 12.13 hrs, Volume= 0.331 af
Outflow = 3.91 cfs @ 12.13 hrs, Volume= 0.331 af, Atten= 0%, Lag= 0.0 min
Primary = 3.91 cfs @ 12.13 hrs, Volume= 0.331 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.06' @ 12.13 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**24.0" Round 24" ADS** L= 132.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 57.90' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.91 cfs @ 12.13 hrs HW=60.06' TW=58.32' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 3.91 cfs @ 3.12 fps)

Summary for Pond 12.040:

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 1.22" for 1-YEAR event
Inflow = 5.27 cfs @ 12.12 hrs, Volume= 0.449 af
Outflow = 5.27 cfs @ 12.12 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 5.27 cfs @ 12.12 hrs, Volume= 0.449 af
Routed to Pond 12.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.32' @ 12.12 hrs
Flood Elev= 69.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**30.0" Round 30" ADS** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.36' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=5.26 cfs @ 12.12 hrs HW=58.32' TW=57.26' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 5.26 cfs @ 4.78 fps)

Summary for Pond 12.050: Diversion

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 1.22" for 1-YEAR event
Inflow = 5.27 cfs @ 12.12 hrs, Volume= 0.449 af
Outflow = 5.27 cfs @ 12.12 hrs, Volume= 0.449 af, Atten= 0%, Lag= 0.0 min
Primary = 2.82 cfs @ 12.11 hrs, Volume= 0.398 af
Routed to Pond 12.060 : HS
Secondary = 2.45 cfs @ 12.12 hrs, Volume= 0.051 af
Routed to Pond P203-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.26' @ 12.12 hrs
Flood Elev= 63.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	**12.0" Round 12" ADS To P203-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 56.00' / 55.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Secondary	56.65'	**30.0" Round 30" ADS** L= 111.0' Ke= 0.500 Inlet / Outlet Invert= 56.65' / 54.00' S= 0.0239 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=2.81 cfs @ 12.11 hrs HW=57.26' TW=56.70' (Dynamic Tailwater)
1=12" ADS To P203-SF Separator (Inlet Controls 2.81 cfs @ 3.58 fps)

Secondary OutFlow Max=2.45 cfs @ 12.12 hrs HW=57.26' TW=51.74' (Dynamic Tailwater)
2=30" ADS (Inlet Controls 2.45 cfs @ 2.65 fps)

Summary for Pond 12.060: HS

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 1.09" for 1-YEAR event
Inflow = 2.82 cfs @ 12.11 hrs, Volume= 0.398 af
Outflow = 2.82 cfs @ 12.11 hrs, Volume= 0.398 af, Atten= 0%, Lag= 0.0 min
Primary = 2.82 cfs @ 12.11 hrs, Volume= 0.398 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.70' @ 12.11 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.65'	**12.0" Round 12" ADS** L= 72.0' Ke= 0.500 Inlet / Outlet Invert= 55.65' / 54.00' S= 0.0229 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=2.81 cfs @ 12.11 hrs HW=56.70' TW=51.92' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 2.81 cfs @ 3.58 fps)

Summary for Pond 13.010:

Inflow Area = 0.586 ac, 27.82% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 0.63 cfs @ 12.18 hrs, Volume= 0.057 af
Outflow = 0.63 cfs @ 12.18 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.63 cfs @ 12.18 hrs, Volume= 0.057 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 63.95' @ 12.18 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.58'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.58' / 63.38' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.63 cfs @ 12.18 hrs HW=63.95' TW=60.02' (Dynamic Tailwater)
1=18" ADS (Barrel Controls 0.63 cfs @ 2.80 fps)

Summary for Pond 14.010:

Inflow Area = 0.370 ac, 46.30% Impervious, Inflow Depth = 1.42" for 1-YEAR event
Inflow = 0.64 cfs @ 12.08 hrs, Volume= 0.044 af
Outflow = 0.64 cfs @ 12.08 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.08 hrs, Volume= 0.044 af
Routed to Pond 14.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.03' @ 12.08 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.66'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500

Inlet / Outlet Invert= 65.66' / 65.46' S= 0.0100 '/' Cc= 0.900
n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.64 cfs @ 12.08 hrs HW=66.03' TW=65.68' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 0.64 cfs @ 2.81 fps)

Summary for Pond 14.020:

Inflow Area = 0.611 ac, 37.49% Impervious, Inflow Depth = 1.30" for 1-YEAR event
Inflow = 0.95 cfs @ 12.08 hrs, Volume= 0.066 af
Outflow = 0.95 cfs @ 12.08 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min
Primary = 0.95 cfs @ 12.08 hrs, Volume= 0.066 af
Routed to Pond 14.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.68' @ 12.08 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.21'	**18.0" Round 18" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 65.21' / 65.03' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.95 cfs @ 12.08 hrs HW=65.68' TW=65.31' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 0.95 cfs @ 3.01 fps)

Summary for Pond 14.030:

Inflow Area = 0.991 ac, 35.25% Impervious, Inflow Depth = 1.27" for 1-YEAR event
Inflow = 1.27 cfs @ 12.09 hrs, Volume= 0.105 af
Outflow = 1.27 cfs @ 12.09 hrs, Volume= 0.105 af, Atten= 0%, Lag= 0.0 min
Primary = 1.27 cfs @ 12.09 hrs, Volume= 0.105 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.32' @ 12.09 hrs
Flood Elev= 69.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.78'	**18.0" Round 18" ADS** L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 64.78' / 64.53' S= 0.0104 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.27 cfs @ 12.09 hrs HW=65.31' TW=58.30' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 1.27 cfs @ 3.35 fps)

Summary for Pond 15.010:

Inflow Area = 0.035 ac, 73.21% Impervious, Inflow Depth = 1.97" for 1-YEAR event
Inflow = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af
Outflow = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.08 cfs @ 12.07 hrs, Volume= 0.006 af
Routed to Pond 15.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.41' @ 12.07 hrs
Flood Elev= 92.47'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.27'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.27' / 88.07' S= 0.0100 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.08 cfs @ 12.07 hrs HW=88.41' TW=88.06' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.08 cfs @ 1.83 fps)

Summary for Pond 15.020:

Inflow Area = 0.098 ac, 52.25% Impervious, Inflow Depth = 1.57" for 1-YEAR event
Inflow = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.06' @ 12.07 hrs
Flood Elev= 92.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.87'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.87' / 76.44' S= 0.0577 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.19 cfs @ 12.07 hrs HW=88.06' TW=76.10' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.19 cfs @ 1.47 fps)

Summary for Pond 15.040:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 1.55" for 1-YEAR event
Inflow = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af
Outflow = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.43' @ 12.07 hrs
Flood Elev= 72.99'

Device	Routing	Invert	Outlet Devices
#1	Primary	68.08'	**18.0" Round 18" ADS** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 68.08' / 64.49' S= 0.0552 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.64 cfs @ 12.07 hrs HW=68.43' TW=64.40' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.64 cfs @ 2.02 fps)

Summary for Pond 15.050:

Inflow Area = 0.499 ac, 58.33% Impervious, Inflow Depth = 1.68" for 1-YEAR event
Inflow = 1.01 cfs @ 12.07 hrs, Volume= 0.070 af
Outflow = 1.01 cfs @ 12.07 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
Primary = 1.01 cfs @ 12.07 hrs, Volume= 0.070 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.40' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.99'	**24.0" Round 24" ADS** L= 96.0' Ke= 0.500 Inlet / Outlet Invert= 63.99' / 58.57' S= 0.0565 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.00 cfs @ 12.07 hrs HW=64.40' TW=59.08' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 1.00 cfs @ 2.18 fps)

Summary for Pond 15.055:

Inflow Area = 1.872 ac, 51.75% Impervious, Inflow Depth = 1.56" for 1-YEAR event
Inflow = 3.30 cfs @ 12.09 hrs, Volume= 0.243 af
Outflow = 3.30 cfs @ 12.09 hrs, Volume= 0.243 af, Atten= 0%, Lag= 0.0 min
Primary = 3.30 cfs @ 12.09 hrs, Volume= 0.243 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.09' @ 12.10 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.32'	**24.0" Round 24" ADS** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 58.32' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.27 cfs @ 12.09 hrs HW=59.09' TW=58.15' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 3.27 cfs @ 4.34 fps)

Summary for Pond 15.060:

Inflow Area = 4.297 ac, 30.98% Impervious, Inflow Depth = 1.23" for 1-YEAR event
Inflow = 5.64 cfs @ 12.11 hrs, Volume= 0.440 af
Outflow = 5.64 cfs @ 12.11 hrs, Volume= 0.440 af, Atten= 0%, Lag= 0.0 min
Primary = 5.64 cfs @ 12.11 hrs, Volume= 0.440 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.16' @ 12.11 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.12'	**24.0" Round 24" ADS** L= 97.0' Ke= 0.500 Inlet / Outlet Invert= 57.12' / 56.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.61 cfs @ 12.11 hrs HW=58.16' TW=57.08' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 5.61 cfs @ 4.97 fps)

Summary for Pond 15.065:

Inflow Area = 5.959 ac, 24.29% Impervious, Inflow Depth = 1.13" for 1-YEAR event
Inflow = 6.94 cfs @ 12.11 hrs, Volume= 0.560 af
Outflow = 6.94 cfs @ 12.11 hrs, Volume= 0.560 af, Atten= 0%, Lag= 0.0 min
Primary = 6.94 cfs @ 12.11 hrs, Volume= 0.560 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.09' @ 12.11 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.90'	**24.0" Round 24" ADS** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 55.90' / 55.28' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.94 cfs @ 12.11 hrs HW=57.09' TW=55.70' (Dynamic Tailwater)
1=24" ADS (Barrel Controls 6.94 cfs @ 5.14 fps)

Summary for Pond 15.070:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af
Outflow = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af, Atten= 0%, Lag= 0.0 min
Primary = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af
Routed to Pond 15.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.70' @ 12.11 hrs
Flood Elev= 64.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.55'	**30.0" Round 30" ADS** L= 125.0' Ke= 0.500 Inlet / Outlet Invert= 54.55' / 52.80' S= 0.0140 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.99 cfs @ 12.11 hrs HW=55.70' TW=53.74' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 7.99 cfs @ 3.64 fps)

Summary for Pond 15.080:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af
Outflow = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af, Atten= 0%, Lag= 0.0 min
Primary = 8.00 cfs @ 12.11 hrs, Volume= 0.654 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.74' @ 12.12 hrs
Flood Elev= 57.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.55'	**30.0" Round 30" ADS** L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 52.55' / 50.73' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=7.98 cfs @ 12.11 hrs HW=53.74' TW=52.36' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 7.98 cfs @ 5.06 fps)

Summary for Pond 15.090: Diversion

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 1.17" for 1-YEAR event
Inflow = 9.39 cfs @ 12.12 hrs, Volume= 0.782 af
Outflow = 9.39 cfs @ 12.12 hrs, Volume= 0.782 af, Atten= 0%, Lag= 0.0 min
Primary = 3.52 cfs @ 12.11 hrs, Volume= 0.652 af
Routed to Pond 15.100 : HS
Secondary = 5.88 cfs @ 12.12 hrs, Volume= 0.131 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.36' @ 12.12 hrs
Flood Elev= 56.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.48'	**12.0" Round 12" ADS to 202A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 50.48' / 50.38' S= 0.0200 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

#2	Secondary	51.45'	**36.0" Round 36" ADS** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 51.45' / 46.00' S= 0.0376 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=3.51 cfs @ 12.11 hrs HW=52.36' TW=51.50' (Dynamic Tailwater)
1=12" ADS to 202A-SF Separator (Inlet Controls 3.51 cfs @ 4.47 fps)

Secondary OutFlow Max=5.86 cfs @ 12.12 hrs HW=52.36' TW=46.32' (Dynamic Tailwater)
2=36" ADS (Inlet Controls 5.86 cfs @ 3.25 fps)

Summary for Pond 15.100: HS

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 0.98" for 1-YEAR event
Inflow = 3.52 cfs @ 12.11 hrs, Volume= 0.652 af
Outflow = 3.52 cfs @ 12.11 hrs, Volume= 0.652 af, Atten= 0%, Lag= 0.0 min
Primary = 3.52 cfs @ 12.11 hrs, Volume= 0.652 af
Routed to Pond P202A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.50' @ 12.11 hrs
Flood Elev= 56.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.13'	**12.0" Round 12" ADS** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 50.13' / 48.00' S= 0.0355 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.52 cfs @ 12.11 hrs HW=51.50' TW=46.05' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 3.52 cfs @ 4.48 fps)

Summary for Pond 16.010:

Inflow Area = 0.100 ac, 65.05% Impervious, Inflow Depth = 1.80" for 1-YEAR event
Inflow = 0.22 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.22 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.22 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 76.94' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.70'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.70' / 76.50' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.22 cfs @ 12.07 hrs HW=76.94' TW=76.10' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.22 cfs @ 2.31 fps)

Summary for Pond 16.030:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 1.55" for 1-YEAR event
Inflow = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af
Outflow = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af, Atten= 0%, Lag= 0.0 min
Primary = 0.64 cfs @ 12.07 hrs, Volume= 0.044 af
Routed to Pond 15.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 76.10' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	75.75'	**18.0" Round 18" ADS** L= 130.0' Ke= 0.500 Inlet / Outlet Invert= 75.75' / 68.33' S= 0.0571 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.64 cfs @ 12.07 hrs HW=76.10' TW=68.43' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.64 cfs @ 2.02 fps)

Summary for Pond 17.010:

Inflow Area = 0.063 ac, 87.39% Impervious, Inflow Depth = 2.25" for 1-YEAR event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Outflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.39' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.19' / 64.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.07 hrs HW=65.39' TW=64.40' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.16 cfs @ 2.16 fps)

Summary for Pond 18.010:

Inflow Area = 2.365 ac, 12.80% Impervious, Inflow Depth = 0.93" for 1-YEAR event
Inflow = 2.28 cfs @ 12.13 hrs, Volume= 0.184 af
Outflow = 2.28 cfs @ 12.13 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min
Primary = 2.28 cfs @ 12.13 hrs, Volume= 0.184 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.38' @ 12.12 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.57'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.57' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.32 cfs @ 12.13 hrs HW=58.38' TW=58.14' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 2.32 cfs @ 2.87 fps)

Summary for Pond 19.010:

Inflow Area = 0.215 ac, 39.41% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 0.28 cfs @ 12.14 hrs, Volume= 0.023 af
Outflow = 0.28 cfs @ 12.14 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.14 hrs, Volume= 0.023 af
Routed to Pond 19.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 65.28' @ 12.14 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.01' / 64.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.28 cfs @ 12.14 hrs HW=65.28' TW=64.56' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.28 cfs @ 2.45 fps)

Summary for Pond 19.020:

Inflow Area = 0.244 ac, 46.63% Impervious, Inflow Depth = 1.44" for 1-YEAR event
Inflow = 0.34 cfs @ 12.13 hrs, Volume= 0.029 af
Outflow = 0.34 cfs @ 12.13 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.13 hrs, Volume= 0.029 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.56' @ 12.13 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.31'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 64.31' / 60.31' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.34 cfs @ 12.13 hrs HW=64.56' TW=60.52' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.34 cfs @ 1.72 fps)

Summary for Pond 19.030:

Inflow Area = 0.790 ac, 43.90% Impervious, Inflow Depth = 1.43" for 1-YEAR event
Inflow = 1.08 cfs @ 12.13 hrs, Volume= 0.094 af
Outflow = 1.08 cfs @ 12.13 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min
Primary = 1.08 cfs @ 12.13 hrs, Volume= 0.094 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.52' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.06'	**18.0" Round 18" ADS** L= 32.0' Ke= 0.500 Inlet / Outlet Invert= 60.06' / 59.42' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.08 cfs @ 12.13 hrs HW=60.52' TW=55.68' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 1.08 cfs @ 2.32 fps)

Summary for Pond 20.010:

Inflow Area = 0.486 ac, 35.64% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 0.62 cfs @ 12.15 hrs, Volume= 0.052 af
Outflow = 0.62 cfs @ 12.15 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.15 hrs, Volume= 0.052 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.43' @ 12.15 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.01' / 60.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 12.15 hrs HW=61.43' TW=60.52' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.62 cfs @ 2.90 fps)

Summary for Pond 21.010:

Inflow Area = 0.152 ac, 29.75% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 0.18 cfs @ 12.14 hrs, Volume= 0.015 af
Outflow = 0.18 cfs @ 12.14 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.14 hrs, Volume= 0.015 af
Routed to Pond 21.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.86' @ 12.14 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	67.65'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 67.65' / 67.45' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.14 hrs HW=67.86' TW=67.11' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.18 cfs @ 2.21 fps)

Summary for Pond 21.020:

Inflow Area = 0.176 ac, 39.32% Impervious, Inflow Depth = 1.35" for 1-YEAR event
Inflow = 0.23 cfs @ 12.12 hrs, Volume= 0.020 af
Outflow = 0.23 cfs @ 12.12 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 12.12 hrs, Volume= 0.020 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.11' @ 12.12 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.90'	**18.0" Round 18" ADS** L= 146.0' Ke= 0.500 Inlet / Outlet Invert= 66.90' / 58.60' S= 0.0568 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.23 cfs @ 12.12 hrs HW=67.11' TW=58.59' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.23 cfs @ 1.56 fps)

Summary for Pond 21.030:

Inflow Area = 1.256 ac, 31.78% Impervious, Inflow Depth = 1.22" for 1-YEAR event
Inflow = 1.41 cfs @ 12.13 hrs, Volume= 0.128 af
Outflow = 1.41 cfs @ 12.13 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 1.41 cfs @ 12.13 hrs, Volume= 0.128 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 58.59' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.10'	**24.0" Round 24" ADS** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 58.10' / 52.25' S= 0.0340 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.41 cfs @ 12.13 hrs HW=58.59' TW=52.35' (Dynamic Tailwater)
↑**1=24" ADS** (Inlet Controls 1.41 cfs @ 2.38 fps)

Summary for Pond 22.010:

Inflow Area = 1.633 ac, 5.30% Impervious, Inflow Depth = 0.83" for 1-YEAR event
Inflow = 1.31 cfs @ 12.14 hrs, Volume= 0.113 af
Outflow = 1.31 cfs @ 12.14 hrs, Volume= 0.113 af, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.14 hrs, Volume= 0.113 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.52' @ 12.14 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.01'	**24.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.01' / 57.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.31 cfs @ 12.14 hrs HW=58.52' TW=57.04' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 1.31 cfs @ 3.16 fps)

Summary for Pond 23.010:

Inflow Area = 1.343 ac, 48.23% Impervious, Inflow Depth = 1.49" for 1-YEAR event
Inflow = 2.26 cfs @ 12.10 hrs, Volume= 0.167 af
Outflow = 2.26 cfs @ 12.10 hrs, Volume= 0.167 af, Atten= 0%, Lag= 0.0 min
Primary = 2.26 cfs @ 12.10 hrs, Volume= 0.167 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.46' @ 12.11 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.77'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.77' / 58.57' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.26 cfs @ 12.10 hrs HW=59.46' TW=59.09' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 2.26 cfs @ 3.51 fps)

Summary for Pond 24.010:

Inflow Area = 0.498 ac, 32.59% Impervious, Inflow Depth = 1.22" for 1-YEAR event
Inflow = 0.59 cfs @ 12.16 hrs, Volume= 0.051 af
Outflow = 0.59 cfs @ 12.16 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 0.59 cfs @ 12.16 hrs, Volume= 0.051 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 60.39' @ 12.16 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 60.00' / 59.70' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.16 hrs HW=60.39' TW=59.43' (Dynamic Tailwater)
↑**1=12" ADS** (Inlet Controls 0.59 cfs @ 2.12 fps)

Summary for Pond 25.010:

Inflow Area = 0.111 ac,100.00% Impervious, Inflow Depth = 2.57" for 1-YEAR event
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.024 af
Outflow = 0.31 cfs @ 12.07 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.07 hrs, Volume= 0.024 af
Routed to Pond 25.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.19' @ 12.07 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.90'	**12.0" Round 12" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 59.90' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.31 cfs @ 12.07 hrs HW=60.19' TW=59.66' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.31 cfs @ 2.48 fps)

Summary for Pond 25.020:

Inflow Area = 1.081 ac, 30.56% Impervious, Inflow Depth = 1.20" for 1-YEAR event
Inflow = 1.18 cfs @ 12.14 hrs, Volume= 0.108 af
Outflow = 1.18 cfs @ 12.14 hrs, Volume= 0.108 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.14 hrs, Volume= 0.108 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.71' @ 12.14 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**18.0" Round 18" ADS** L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 58.60' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.18 cfs @ 12.14 hrs HW=59.71' TW=58.59' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 1.18 cfs @ 2.38 fps)

Summary for Pond 26.010:

Inflow Area = 0.185 ac, 36.90% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 0.26 cfs @ 12.12 hrs, Volume= 0.020 af
Outflow = 0.26 cfs @ 12.12 hrs, Volume= 0.020 af, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.12 hrs, Volume= 0.020 af
Routed to Pond 26.015 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.45' @ 12.12 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.19' / 60.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.26 cfs @ 12.12 hrs HW=61.45' TW=60.97' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.26 cfs @ 2.40 fps)

Summary for Pond 26.015:

Inflow Area = 0.196 ac, 40.42% Impervious, Inflow Depth = 1.36" for 1-YEAR event
Inflow = 0.28 cfs @ 12.12 hrs, Volume= 0.022 af
Outflow = 0.28 cfs @ 12.12 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.28 cfs @ 12.12 hrs, Volume= 0.022 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.97' @ 12.12 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.74'	**18.0" Round 18" ADS** L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 60.74' / 59.25' S= 0.0080 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.28 cfs @ 12.12 hrs HW=60.97' TW=59.43' (Dynamic Tailwater)
↑**1=18" ADS** (Outlet Controls 0.28 cfs @ 2.46 fps)

Summary for Pond 26.020:

Inflow Area = 0.739 ac, 38.72% Impervious, Inflow Depth = 1.34" for 1-YEAR event
Inflow = 0.95 cfs @ 12.13 hrs, Volume= 0.083 af
Outflow = 0.95 cfs @ 12.13 hrs, Volume= 0.083 af, Atten= 0%, Lag= 0.0 min
Primary = 0.95 cfs @ 12.13 hrs, Volume= 0.083 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.43' @ 12.13 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.00'	**18.0" Round 18" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 59.00' / 57.65' S= 0.0090 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.95 cfs @ 12.13 hrs HW=59.43' TW=58.02' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.95 cfs @ 2.24 fps)

Summary for Pond 26.030:

Inflow Area = 1.371 ac, 40.34% Impervious, Inflow Depth = 1.37" for 1-YEAR event
Inflow = 1.86 cfs @ 12.11 hrs, Volume= 0.156 af
Outflow = 1.86 cfs @ 12.11 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 1.86 cfs @ 12.11 hrs, Volume= 0.156 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 58.02' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**18.0" Round 18" ADS** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.75' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.86 cfs @ 12.11 hrs HW=58.02' TW=56.58' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 1.86 cfs @ 2.69 fps)

Summary for Pond 26.040:

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 1.39" for 1-YEAR event
Inflow = 3.33 cfs @ 12.12 hrs, Volume= 0.280 af
Outflow = 3.33 cfs @ 12.12 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min
Primary = 3.33 cfs @ 12.12 hrs, Volume= 0.280 af
Routed to Pond 26.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.58' @ 12.12 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.75'	**24.0" Round 24" ADS** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 55.75' / 54.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.32 cfs @ 12.12 hrs HW=56.58' TW=55.78' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 3.32 cfs @ 4.00 fps)

Summary for Pond 26.050: Diversion

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 1.39" for 1-YEAR event
Inflow = 3.33 cfs @ 12.12 hrs, Volume= 0.280 af
Outflow = 3.33 cfs @ 12.12 hrs, Volume= 0.280 af, Atten= 0%, Lag= 0.0 min
Primary = 1.35 cfs @ 12.11 hrs, Volume= 0.238 af
Routed to Pond 26.060 : HS
Secondary = 1.97 cfs @ 12.12 hrs, Volume= 0.042 af
Routed to Pond P204A-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.78' @ 12.12 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	**8.0" Round 8" ADS to P204A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 54.50' / 54.40' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf
#2	Secondary	55.20'	**24.0" Round 24" ADS** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 55.20' / 52.00' S= 0.0457 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.35 cfs @ 12.11 hrs HW=55.78' TW=55.13' (Dynamic Tailwater)
↑—**1=8" ADS to P204A-SF Separator** (Inlet Controls 1.35 cfs @ 3.88 fps)

Secondary OutFlow Max=1.97 cfs @ 12.12 hrs HW=55.78' TW=47.11' (Dynamic Tailwater)
↑—**2=24" ADS** (Inlet Controls 1.97 cfs @ 2.60 fps)

Summary for Pond 26.060: HS

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 1.18" for 1-YEAR event
Inflow = 1.35 cfs @ 12.11 hrs, Volume= 0.238 af
Outflow = 1.35 cfs @ 12.11 hrs, Volume= 0.238 af, Atten= 0%, Lag= 0.0 min
Primary = 1.35 cfs @ 12.11 hrs, Volume= 0.238 af
Routed to Pond P204A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.13' @ 12.11 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.15'	**8.0" Round 8" ADS** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 54.15' / 52.00' S= 0.0244 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf

Primary OutFlow Max=1.35 cfs @ 12.11 hrs HW=55.13' TW=50.07' (Dynamic Tailwater)
1=8" ADS (Inlet Controls 1.35 cfs @ 3.88 fps)

Summary for Pond 27.010:

Inflow Area = 0.524 ac, 30.28% Impervious, Inflow Depth = 1.16" for 1-YEAR event
Inflow = 0.67 cfs @ 12.11 hrs, Volume= 0.051 af
Outflow = 0.67 cfs @ 12.11 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.11 hrs, Volume= 0.051 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.04' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.63'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.63' / 58.15' S= 0.0240 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.11 hrs HW=59.04' TW=58.02' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 0.67 cfs @ 2.19 fps)

Summary for Pond 28.010:

Inflow Area = 0.462 ac, 35.44% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 0.59 cfs @ 12.15 hrs, Volume= 0.050 af
Outflow = 0.59 cfs @ 12.15 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.59 cfs @ 12.15 hrs, Volume= 0.050 af
Routed to Pond 28.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.53' @ 12.15 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.12'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.12' / 65.92' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.59 cfs @ 12.15 hrs HW=66.53' TW=65.78' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.59 cfs @ 2.87 fps)

Summary for Pond 28.020:

Inflow Area = 0.503 ac, 40.68% Impervious, Inflow Depth = 1.39" for 1-YEAR event
Inflow = 0.67 cfs @ 12.14 hrs, Volume= 0.058 af
Outflow = 0.67 cfs @ 12.14 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.14 hrs, Volume= 0.058 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.78' @ 12.14 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.42'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 65.42' / 61.43' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.67 cfs @ 12.14 hrs HW=65.78' TW=61.72' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.67 cfs @ 2.05 fps)

Summary for Pond 28.030:

Inflow Area = 1.049 ac, 42.18% Impervious, Inflow Depth = 1.41" for 1-YEAR event
Inflow = 1.47 cfs @ 12.12 hrs, Volume= 0.123 af
Outflow = 1.47 cfs @ 12.12 hrs, Volume= 0.123 af, Atten= 0%, Lag= 0.0 min
Primary = 1.47 cfs @ 12.12 hrs, Volume= 0.123 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.73' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.18'	**18.0" Round 18" ADS** L= 138.0' Ke= 0.500 Inlet / Outlet Invert= 61.18' / 56.75' S= 0.0321 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.47 cfs @ 12.12 hrs HW=61.73' TW=56.58' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.47 cfs @ 2.52 fps)

Summary for Pond 29.010:

Inflow Area = 0.486 ac, 36.65% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 0.67 cfs @ 12.12 hrs, Volume= 0.052 af
Outflow = 0.67 cfs @ 12.12 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.12 hrs, Volume= 0.052 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.57' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	62.13'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 62.13' / 61.93' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.67 cfs @ 12.12 hrs HW=62.57' TW=61.73' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.67 cfs @ 2.95 fps)

Summary for Pond P201-DT: DETENTION

Inflow Area = 10.168 ac, 41.40% Impervious, Inflow Depth = 0.58" for 1-YEAR event
Inflow = 6.40 cfs @ 12.10 hrs, Volume= 0.491 af
Outflow = 0.42 cfs @ 15.03 hrs, Volume= 0.491 af, Atten= 93%, Lag= 175.7 min
Discarded = 0.12 cfs @ 15.03 hrs, Volume= 0.149 af
Primary = 0.30 cfs @ 15.03 hrs, Volume= 0.342 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 48.73' @ 15.03 hrs Surf.Area= 19,131 sf Storage= 13,411 cf
Flood Elev= 52.00' Surf.Area= 26,017 sf Storage= 87,081 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 319.3 min (1,108.9 - 789.6)

Volume	Invert	Avail.Storage	Storage Description
#1	48.00'	87,081 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
48.00	17,686	0	0
49.00	19,670	18,678	18,678
50.00	21,727	20,699	39,377
51.00	23,832	22,780	62,156
52.00	26,017	24,925	87,081

Device	Routing	Invert	Outlet Devices
#1	Discarded	48.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**18.0" Round 18" ADS x2 X 2.00** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Device 2	47.00'	**3.0" Vert. 3" Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 2	49.00'	**48.0" W x 24.0" H Vert. 2'H X 4'W Opening with trash rack** C= 0.600 Limited to weir flow at low heads
#5	Primary	51.00'	**12.0' long x 15.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.12 cfs @ 15.03 hrs HW=48.73' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.12 cfs)

Primary OutFlow Max=0.30 cfs @ 15.03 hrs HW=48.73' TW=0.00' (Dynamic Tailwater)
└**2=18" ADS x2** (Passes 0.30 cfs of 20.69 cfs potential flow)
└**3=3" Orifice** (Orifice Controls 0.30 cfs @ 6.10 fps)
└**4=2'H X 4'W Opening with trash rack** (Controls 0.00 cfs)
└**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond P201-SF: FILTER (LINED)

Inflow Area = 9.349 ac, 38.64% Impervious, Inflow Depth = 1.23" for 1-YEAR event
Inflow = 8.14 cfs @ 12.09 hrs, Volume= 0.959 af
Outflow = 4.40 cfs @ 12.46 hrs, Volume= 0.959 af, Atten= 46%, Lag= 22.2 min
Primary = 3.94 cfs @ 12.46 hrs, Volume= 0.281 af
Routed to Pond P201-DT : DETENTION
Secondary = 0.46 cfs @ 12.46 hrs, Volume= 0.678 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.91' @ 12.46 hrs Surf.Area= 13,890 sf Storage= 13,814 cf
Flood Elev= 52.00' Surf.Area= 14,955 sf Storage= 22,465 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 228.4 min (1,068.3 - 840.0)

Volume	Invert	Avail.Storage	Storage Description
#1	46.50'	7,508 cf	**Media (Prismatic)** Listed below (Recalc) 22,750 cf Overall x 33.0% Voids
#2	50.00'	14,958 cf	**Sand Filer Ponding (Prismatic)** Listed below (Recalc)
		22,465 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.50	6,500	0	0
50.00	6,500	22,750	22,750

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	6,500	0	0
51.00	7,480	6,990	6,990
52.00	8,455	7,968	14,958

Device	Routing	Invert	Outlet Devices
#1	Secondary	46.25'	**4.0" Round 4" Underdrain** L= 142.0' Ke= 0.500 Inlet / Outlet Invert= 46.25' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	46.50'	**8.270 in/hr Exfiltration over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=3.94 cfs @ 12.46 hrs HW=50.91' TW=48.37' (Dynamic Tailwater)
└**3=Overflow weir** (Weir Controls 3.94 cfs @ 1.55 fps)

Secondary OutFlow Max=0.46 cfs @ 12.46 hrs HW=50.91' TW=0.00' (Dynamic Tailwater)
└**1=4" Underdrain** (Barrel Controls 0.46 cfs @ 5.27 fps)
└**2=Exfiltration** (Passes 0.46 cfs of 2.66 cfs potential flow)

Summary for Pond P202-DT: DETENTION (LINED)

Inflow Area = 1.683 ac, 37.75% Impervious, Inflow Depth = 2.27" for 1-YEAR event
Inflow = 7.35 cfs @ 12.11 hrs, Volume= 0.318 af
Outflow = 0.16 cfs @ 16.23 hrs, Volume= 0.318 af, Atten= 98%, Lag= 246.7 min
Primary = 0.16 cfs @ 16.23 hrs, Volume= 0.318 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 46.91' @ 16.23 hrs Surf.Area= 11,058 sf Storage= 9,267 cf
Flood Elev= 50.00' Surf.Area= 17,157 sf Storage= 52,695 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 637.4 min (1,439.5 - 802.2)

Volume	Invert	Avail.Storage	Storage Description
#1	46.00'	52,695 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	9,382	0	0
48.00	13,078	22,460	22,460
50.00	17,157	30,235	52,695

Device	Routing	Invert	Outlet Devices
#1	Primary	45.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 45.50' / 45.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	45.50'	**2.3" Vert. 2.3" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	47.25'	**18.0" x 18.0" Horiz. 18" Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	48.50'	**90.0 deg x 4.5' long x 1.50' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.16 cfs @ 16.23 hrs HW=46.91' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS X 2** (Passes 0.16 cfs of 7.20 cfs potential flow)
  - **2=2.3" Orifice** (Orifice Controls 0.16 cfs @ 5.51 fps)
  - **3=18" Grate** (Controls 0.00 cfs)
- **4=Overflow Weir** (Controls 0.00 cfs)

Summary for Pond P202A-SF: FILTER (LINED)

Inflow Area = 10.304 ac, 28.69% Impervious, Inflow Depth = 1.03" for 1-YEAR event
Inflow = 6.64 cfs @ 12.11 hrs, Volume= 0.886 af
Outflow = 2.57 cfs @ 12.61 hrs, Volume= 0.865 af, Atten= 61%, Lag= 30.4 min
Primary = 2.57 cfs @ 12.61 hrs, Volume= 0.865 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 46.72' @ 12.61 hrs Surf.Area= 11,836 sf Storage= 9,810 cf
Flood Elev= 48.00' Surf.Area= 12,965 sf Storage= 18,509 cf

Plug-Flow detention time= 66.5 min calculated for 0.865 af (98% of inflow)
Center-of-Mass det. time= 52.9 min (910.1 - 857.1)

Volume	Invert	Avail.Storage	Storage Description
#1	43.00'	5,544 cf	**Media (Prismatic)** Listed below (Recalc) 16,800 cf Overall x 33.0% Voids
#2	46.00'	12,965 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,509 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
43.00	5,600	0	0
46.00	5,600	16,800	16,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	5,600	0	0
48.00	7,365	12,965	12,965

Device	Routing	Invert	Outlet Devices
#1	Primary	43.50'	**18.0" Round 18" ADS** L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 43.50' / 43.25' S= 0.0071 '/' Cc= 0.900 n= 0.010, Flow Area= 1.77 sf
#2	Device 1	43.00'	**8.270 in/hr Media Transport over Surface area**
#3	Device 1	46.66'	**24.0" Horiz. 24" Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=2.57 cfs @ 12.61 hrs HW=46.72' TW=0.00' (Dynamic Tailwater)
- **1=18" ADS** (Passes 2.57 cfs of 13.37 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 2.27 cfs)
  - **3=24" Grate** (Weir Controls 0.31 cfs @ 0.81 fps)

Summary for Pond P202B-SF: FILTER (LINED)

Inflow Area = 1.046 ac, 23.10% Impervious, Inflow Depth = 1.10" for 1-YEAR event
Inflow = 1.29 cfs @ 12.10 hrs, Volume= 0.096 af
Outflow = 0.43 cfs @ 12.46 hrs, Volume= 0.096 af, Atten= 67%, Lag= 21.3 min
Primary = 0.43 cfs @ 12.46 hrs, Volume= 0.096 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.68' @ 12.46 hrs Surf.Area= 1,740 sf Storage= 1,106 cf
Flood Elev= 52.00' Surf.Area= 2,701 sf Storage= 3,214 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 34.6 min (885.0 - 850.4)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	513 cf	**Media (Prismatic)** Listed below (Recalc) 1,555 cf Overall x 33.0% Voids
#2	50.00'	2,701 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		3,214 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	622	0	0
50.00	622	1,555	1,555

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	622	0	0
52.00	2,079	2,701	2,701

Device	Routing	Invert	Outlet Devices
#1	Primary	47.25'	**4.0" Round 4" PVC** L= 25.0' Ke= 0.500 Inlet / Outlet Invert= 47.25' / 47.00' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	47.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.43 cfs @ 12.46 hrs HW=50.68' TW=46.76' (Dynamic Tailwater)
- **1=4" PVC** (Passes 0.33 cfs of 0.68 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 0.33 cfs)
- **3=Overflow Weir** (Weir Controls 0.09 cfs @ 0.45 fps)

Summary for Pond P203-DT: DETENTION (LINED)

Inflow Area = 8.528 ac, 29.10% Impervious, Inflow Depth = 0.47" for 1-YEAR event
Inflow = 4.91 cfs @ 12.11 hrs, Volume= 0.335 af
Outflow = 0.38 cfs @ 14.21 hrs, Volume= 0.335 af, Atten= 92%, Lag= 126.5 min
Primary = 0.38 cfs @ 14.21 hrs, Volume= 0.335 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.35' @ 14.21 hrs Surf.Area= 11,873 sf Storage= 9,136 cf
Flood Elev= 54.00' Surf.Area= 15,076 sf Storage= 31,412 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 429.7 min (1,237.7 - 808.0)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	31,412 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	9,373	0	0
52.00	11,214	5,147	5,147
53.00	13,120	12,167	17,314
54.00	15,076	14,098	31,412

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	**12.0" Round 12" ADS** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 50.50' / 50.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	50.50'	**2.4" Vert. 2.4" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	52.35'	**18.0" Horiz. 18" Inlet** C= 0.600 Limited to weir flow at low heads
#4	Primary	52.30'	**90.0 deg x 6.0' long x 1.70' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.38 cfs @ 14.21 hrs HW=52.35' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS** (Passes 0.20 cfs of 4.39 cfs potential flow)
  - **2=2.4" Orifice** (Orifice Controls 0.20 cfs @ 6.36 fps)
  - **3=18" Inlet** (Controls 0.00 cfs)
- **4=Overflow Weir** (Weir Controls 0.18 cfs @ 0.67 fps)

Summary for Pond P203-FB: FOREBAY (LINED)

Inflow Area = 0.902 ac, 2.22% Impervious, Inflow Depth = 1.22" for 1-YEAR event
Inflow = 1.33 cfs @ 12.08 hrs, Volume= 0.092 af
Outflow = 1.29 cfs @ 12.10 hrs, Volume= 0.073 af, Atten= 3%, Lag= 1.1 min
Primary = 1.29 cfs @ 12.10 hrs, Volume= 0.073 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.78' @ 12.62 hrs Surf.Area= 807 sf Storage= 929 cf
Flood Elev= 54.00' Surf.Area= 1,220 sf Storage= 2,160 cf

Plug-Flow detention time= 121.9 min calculated for 0.073 af (79% of inflow)
Center-of-Mass det. time= 40.8 min (882.8 - 842.0)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	2,160 cf	**Sediment Forebay (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	200	0	0
52.00	578	389	389
53.00	872	725	1,114
54.00	1,220	1,046	2,160

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	**90.0 deg x 15.0' long x 1.35' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=1.29 cfs @ 12.10 hrs HW=52.74' TW=51.71' (Dynamic Tailwater)
- **1=Overflow weir** (Weir Controls 1.29 cfs @ 0.94 fps)

Summary for Pond P203-SF: FILTER (LINED)

Inflow Area = 6.925 ac, 25.88% Impervious, Inflow Depth = 1.07" for 1-YEAR event
Inflow = 6.17 cfs @ 12.10 hrs, Volume= 0.620 af
Outflow = 1.77 cfs @ 12.61 hrs, Volume= 0.620 af, Atten= 71%, Lag= 30.7 min
Primary = 1.29 cfs @ 12.61 hrs, Volume= 0.103 af
Routed to Pond P203-DT : DETENTION (LINED)
Secondary = 0.48 cfs @ 12.61 hrs, Volume= 0.517 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.78' @ 12.61 hrs Surf.Area= 12,095 sf Storage= 9,097 cf
Flood Elev= 54.00' Surf.Area= 14,437 sf Storage= 18,797 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 174.4 min (1,030.4 - 856.0)

Volume	Invert	Avail.Storage	Storage Description
#1	49.50'	4,388 cf	**Media (Prismatic)** Listed below (Recalc) 13,298 cf Overall x 33.0% Voids
#2	52.00'	14,409 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,797 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
49.50	5,319	0	0
52.00	5,319	13,298	13,298

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,319	0	0
53.00	7,190	6,255	6,255
54.00	9,118	8,154	14,409

Device	Routing	Invert	Outlet Devices
#1	Secondary	49.25'	**4.0" Round 4" PVC** L= 87.0' Ke= 0.500 Inlet / Outlet Invert= 49.25' / 48.50' S= 0.0086 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	49.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	52.66'	**90.0 deg x 10.0' long x 1.33' rise Sharp-Crested Vee/Trap Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=1.29 cfs @ 12.61 hrs HW=52.78' TW=52.07' (Dynamic Tailwater)
└**3=Sharp-Crested Vee/Trap Weir** (Weir Controls 1.29 cfs @ 1.07 fps)

Secondary OutFlow Max=0.48 cfs @ 12.61 hrs HW=52.78' TW=0.00' (Dynamic Tailwater)
└**1=4" PVC** (Barrel Controls 0.48 cfs @ 5.47 fps)
└**2=Media Transport** (Passes 0.48 cfs of 2.32 cfs potential flow)

Summary for Pond P204A-DT: DETENTION

Inflow Area = 6.595 ac, 33.52% Impervious, Inflow Depth = 0.31" for 1-YEAR event
Inflow = 3.33 cfs @ 12.11 hrs, Volume= 0.172 af
Outflow = 0.18 cfs @ 13.10 hrs, Volume= 0.172 af, Atten= 95%, Lag= 59.0 min
Discarded = 0.08 cfs @ 13.10 hrs, Volume= 0.080 af
Primary = 0.10 cfs @ 13.10 hrs, Volume= 0.092 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.36' @ 13.10 hrs Surf.Area= 12,861 sf Storage= 4,510 cf
Flood Elev= 50.00' Surf.Area= 20,313 sf Storage= 48,163 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 225.2 min (1,013.9 - 788.8)

Volume	Invert	Avail.Storage	Storage Description
#1	47.00'	48,163 cf	**Detention Area (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.00	11,852	0	0
48.00	14,616	13,234	13,234
50.00	20,313	34,929	48,163

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#3	Device 2	47.50'	**30.0" W x 12.0" H Vert. 30"W X 12"H GRATE** C= 0.600 Limited to weir flow at low heads
#4	Device 2	46.50'	**2.1" Vert. 2.1" ORIFICE** C= 0.600 Limited to weir flow at low heads
#5	Primary	49.25'	**10.0' long x 15.0' breadth Riprap Spillway** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.08 cfs @ 13.10 hrs HW=47.36' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.08 cfs)

Primary OutFlow Max=0.10 cfs @ 13.10 hrs HW=47.36' TW=0.00' (Dynamic Tailwater)
├**2=12" ADS X 2** (Passes 0.10 cfs of 4.57 cfs potential flow)
│ ├**3=30"W X 12"H GRATE** (Controls 0.00 cfs)
│ └**4=2.1" ORIFICE** (Orifice Controls 0.10 cfs @ 4.25 fps)
└**5=Riprap Spillway** (Controls 0.00 cfs)

Summary for Pond P204A-SF: FILTER (LINED)

Inflow Area = 3.971 ac, 35.06% Impervious, Inflow Depth = 1.15" for 1-YEAR event
Inflow = 3.16 cfs @ 12.12 hrs, Volume= 0.381 af
Outflow = 1.67 cfs @ 12.49 hrs, Volume= 0.381 af, Atten= 47%, Lag= 22.3 min
Primary = 1.06 cfs @ 12.49 hrs, Volume= 0.028 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.62 cfs @ 12.49 hrs, Volume= 0.352 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.10' @ 12.49 hrs Surf.Area= 5,557 sf Storage= 4,153 cf
Flood Elev= 52.00' Surf.Area= 6,383 sf Storage= 7,262 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 54.0 min (901.2 - 847.2)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	2,475 cf	**Media (Prismatic)** Listed below (Recalc) 7,500 cf Overall x 33.0% Voids
#2	50.50'	4,787 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		7,262 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	2,500	0	0
50.50	2,500	7,500	7,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.50	2,500	0	0
52.00	3,883	4,787	4,787

Device	Routing	Invert	Outlet Devices
#1	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**
#2	Secondary	47.00'	**4.0" Round 4" PVC** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 47.00' / 46.50' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Primary	51.00'	**90.0 deg x 10.0' long x 1.00' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=1.06 cfs @ 12.49 hrs HW=51.10' TW=47.30' (Dynamic Tailwater)
↑**3=Overflow weir** (Weir Controls 1.06 cfs @ 1.01 fps)

Secondary OutFlow Max=0.62 cfs @ 12.49 hrs HW=51.10' TW=0.00' (Dynamic Tailwater)
↑**2=4" PVC** (Barrel Controls 0.62 cfs @ 7.06 fps)
↑**1=Media Transport** (Passes 0.62 cfs of 1.06 cfs potential flow)

Summary for Pond P204B-SF: FILTER (LINED)

Inflow Area = 1.883 ac, 19.82% Impervious, Inflow Depth = 1.04" for 1-YEAR event
Inflow = 2.06 cfs @ 12.13 hrs, Volume= 0.164 af
Outflow = 0.49 cfs @ 12.59 hrs, Volume= 0.164 af, Atten= 76%, Lag= 27.7 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.49 cfs @ 12.59 hrs, Volume= 0.164 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.49' @ 12.59 hrs Surf.Area= 3,394 sf Storage= 1,939 cf
Flood Elev= 52.00' Surf.Area= 5,555 sf Storage= 6,669 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 35.1 min (890.7 - 855.6)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	1,114 cf	**Media (Prismatic)** Listed below (Recalc) 3,375 cf Overall x 33.0% Voids
#2	50.00'	5,555 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		6,669 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	1,350	0	0
50.00	1,350	3,375	3,375

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	1,350	0	0
52.00	4,205	5,555	5,555

Device	Routing	Invert	Outlet Devices
#1	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)
#2	Secondary	46.00'	**4.0" Round 4" PVC** L= 113.0' Ke= 0.500 Inlet / Outlet Invert= 46.00' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=47.50' TW=47.00' (Dynamic Tailwater)
↑**1=Overflow weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.49 cfs @ 12.59 hrs HW=50.49' TW=0.00' (Dynamic Tailwater)
↑**2=4" PVC** (Barrel Controls 0.49 cfs @ 5.60 fps)
↑**3=Media Transport** (Passes 0.49 cfs of 0.65 cfs potential flow)

Summary for Link DP1-PR: Wetlands

Inflow Area = 26.211 ac, 29.76% Impervious, Inflow Depth = 1.29" for 1-YEAR event
Inflow = 7.87 cfs @ 12.17 hrs, Volume= 2.814 af
Primary = 7.87 cfs @ 12.17 hrs, Volume= 2.814 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-PR: Western Abutters

Inflow Area = 21.950 ac, 27.83% Impervious, Inflow Depth = 0.91" for 1-YEAR event
Inflow = 5.77 cfs @ 12.10 hrs, Volume= 1.672 af
Primary = 5.77 cfs @ 12.10 hrs, Volume= 1.672 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Subcatchment 205-U1:

Runoff = 9.26 cfs @ 12.09 hrs, Volume= 0.665 af, Depth= 2.37"
Routed to Link DP2-PR : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	54,855	72	Woods/grass comb., Good, HSG C
*	9,000	98	Residence
*	4,338	98	Driveway
	78,486	74	>75% Grass cover, Good, HSG C
	146,679	75	Weighted Average
	133,341	73	90.91% Pervious Area
	13,338	98	9.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.7	198	0.0750	4.41		**Shallow Concentrated Flow, Grass/Woods**
					Unpaved Kv= 16.1 fps
6.2	298	Total			

Summary for Subcatchment 206-U1:

Runoff = 7.29 cfs @ 12.23 hrs, Volume= 0.714 af, Depth= 2.37"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	83,026	72	Woods/grass comb., Good, HSG C
*	2,024	98	Treatment Plant
*	11,323	98	Pavement
	61,304	74	>75% Grass cover, Good, HSG C
	157,677	75	Weighted Average
	144,330	73	91.54% Pervious Area
	13,347	98	8.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	100	0.0900	0.14		**Sheet Flow, Woods**
					Woods: Light underbrush n= 0.400 P2= 3.30"
4.9	260	0.0030	0.88		**Shallow Concentrated Flow, Woods**
					Unpaved Kv= 16.1 fps
16.5	360	Total			

Summary for Subcatchment 207:

Runoff = 11.02 cfs @ 12.13 hrs, Volume= 0.882 af, Depth= 2.72"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	15,600	98	Residence
*	19,325	98	Driveway
	134,754	74	>75% Grass cover, Good, HSG C
	169,679	79	Weighted Average
	134,754	74	79.42% Pervious Area
	34,925	98	20.58% Impervious Area

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

Summary for Subcatchment P1.010:

Runoff = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af, Depth= 4.66"
Routed to Pond 1.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	808	98	Pavement
	808	98	100.00% Impervious Area

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

Summary for Subcatchment P1.020:

Runoff = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af, Depth= 3.18"
Routed to Pond 1.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,633	98	Pavement
	3,965	74	>75% Grass cover, Good, HSG C
	6,598	84	Weighted Average
	3,965	74	60.09% Pervious Area
	2,633	98	39.91% Impervious Area

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

Summary for Subcatchment P1.030:

Runoff = 0.56 cfs @ 12.07 hrs, Volume= 0.039 af, Depth= 3.18"
Routed to Pond 1.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.040:

Runoff = 0.56 cfs @ 12.07 hrs, Volume= 0.039 af, Depth= 3.18"
Routed to Pond 1.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.050:

Runoff = 0.57 cfs @ 12.07 hrs, Volume= 0.039 af, Depth= 3.18"
Routed to Pond 1.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	3,814	74	>75% Grass cover, Good, HSG C
	6,422	84	Weighted Average
	3,814	74	59.39% Pervious Area
	2,608	98	40.61% Impervious Area

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

Summary for Subcatchment P1.070:

Runoff = 0.54 cfs @ 12.07 hrs, Volume= 0.038 af, Depth= 3.68"
Routed to Pond 1.070 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,440	98	Pavement
	2,001	74	>75% Grass cover, Good, HSG C
*	948	98	Pool and apron
	5,389	89	Weighted Average
	2,001	74	37.13% Pervious Area
	3,388	98	62.87% Impervious Area

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

Summary for Subcatchment P1.080:

Runoff = 3.46 cfs @ 12.10 hrs, Volume= 0.255 af, Depth= 2.99"
Routed to Pond 1.080 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,608	98	Pavement
*	2,500	98	Clubhouse
*	5,400	98	Residence
*	3,391	98	Driveway
	29,662	74	>75% Grass cover, Good, HSG C
*	1,025	98	Pool and apron
	44,586	82	Weighted Average
	29,662	74	66.53% Pervious Area
	14,924	98	33.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	100	0.1000	0.33		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.3	80	0.1000	5.09		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
7.0	380	Total			

Summary for Subcatchment P1.090:

Runoff = 5.17 cfs @ 12.13 hrs, Volume= 0.412 af, Depth= 2.72"
Routed to Pond 1.090 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
*	10,800	98	Residence
*	4,146	98	Driveway
	61,809	74	>75% Grass cover, Good, HSG C
	79,355	79	Weighted Average
	61,809	74	77.89% Pervious Area
	17,546	98	22.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	328	0.1000	5.09		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.4	628	Total			

Summary for Subcatchment P1.100:

Runoff = 5.57 cfs @ 12.15 hrs, Volume= 0.463 af, Depth= 2.81"
Routed to Pond 1.100 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	9,453	98	Pavement
*	7,847	98	Tennis
*	3,600	98	Residence
*	1,838	98	Driveway
	63,582	74	>75% Grass cover, Good, HSG C
	86,320	80	Weighted Average
	63,582	74	73.66% Pervious Area
	22,738	98	26.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	100	0.0300	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	267	0.0660	4.14		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.4	238	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.7	605	Total			

Summary for Subcatchment P10.010:

Runoff = 1.81 cfs @ 12.07 hrs, Volume= 0.128 af, Depth= 3.78"
Routed to Pond 10.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,945	98	Driveway
	6,140	74	>75% Grass cover, Good, HSG C
*	2,450	98	Pavement
*	7,225	98	Assisted Living
	17,760	90	Weighted Average
	6,140	74	34.57% Pervious Area
	11,620	98	65.43% Impervious Area

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

Summary for Subcatchment P11.010:

Runoff = 0.80 cfs @ 12.10 hrs, Volume= 0.058 af, Depth= 2.90"
Routed to Pond 11.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,629	98	Pavement
*	295	98	Driveway
	7,609	74	>75% Grass cover, Good, HSG C
	10,533	81	Weighted Average
	7,609	74	72.24% Pervious Area
	2,924	98	27.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.2	39	0.0600	3.94		**Shallow Concentrated Flow, Lawnd** Unpaved Kv= 16.1 fps
0.2	42	0.0400	4.06		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
6.6	181	Total			

Summary for Subcatchment P12.010:

Runoff = 7.74 cfs @ 12.12 hrs, Volume= 0.605 af, Depth= 2.81"
Routed to Pond 12.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	18,000	98	Residence
*	4,033	98	Driveway
*	4,853	98	Pavement
	85,882	74	>75% Grass cover, Good, HSG C
	112,768	80	Weighted Average
	85,882	74	76.16% Pervious Area
	26,886	98	23.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
2.3	470	0.0440	3.38		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	36	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.8	606	Total			

Summary for Subcatchment P12.020:

Runoff = 0.55 cfs @ 12.07 hrs, Volume= 0.043 af, Depth= 4.66"
Routed to Pond 12.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	4,825	98	Pavement
	4,825	98	100.00% Impervious Area

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

Summary for Subcatchment P12.030:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 12.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,623	98	Pavement
	2,623	98	100.00% Impervious Area

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

Summary for Subcatchment P12.040:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.024 af, Depth= 4.66"
Routed to Pond 12.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,654	98	Pavement
	2,654	98	100.00% Impervious Area

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

Summary for Subcatchment P13.010:

Runoff = 1.61 cfs @ 12.17 hrs, Volume= 0.142 af, Depth= 2.90"
Routed to Pond 13.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,114	98	Pavement
*	3,600	98	Residence
*	1,390	98	Driveway
	18,432	74	>75% Grass cover, Good, HSG C
	25,536	81	Weighted Average
	18,432	74	72.18% Pervious Area
	7,104	98	27.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.6	69	0.0150	1.97		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.2	145	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
12.6	314	Total			

Summary for Subcatchment P14.010:

Runoff = 1.46 cfs @ 12.07 hrs, Volume= 0.101 af, Depth= 3.28"
Routed to Pond 14.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,511	98	Pavement
*	3,600	98	Residence
*	1,344	98	Driveway
	8,646	74	>75% Grass cover, Good, HSG C
	16,101	85	Weighted Average
	8,646	74	53.70% Pervious Area
	7,455	98	46.30% Impervious Area

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

Summary for Subcatchment P14.020:

Runoff = 0.82 cfs @ 12.07 hrs, Volume= 0.056 af, Depth= 2.81"
Routed to Pond 14.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,521	98	Pavement
	7,989	74	>75% Grass cover, Good, HSG C
	10,510	80	Weighted Average
	7,989	74	76.01% Pervious Area
	2,521	98	23.99% Impervious Area

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

Summary for Subcatchment P14.030:

Runoff = 1.08 cfs @ 12.17 hrs, Volume= 0.095 af, Depth= 2.99"
Routed to Pond 14.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,498	98	Pavement
*	1,800	98	Residence
*	937	98	Driveway
	11,310	74	>75% Grass cover, Good, HSG C
	16,545	82	Weighted Average
	11,310	74	68.36% Pervious Area
	5,235	98	31.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	59	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	132	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
12.3	291	Total			

Summary for Subcatchment P15.010:

Runoff = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 3.99"
Routed to Pond 15.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	408	74	>75% Grass cover, Good, HSG C
*	1,115	98	Pavement
	1,523	92	Weighted Average
	408	74	26.79% Pervious Area
	1,115	98	73.21% Impervious Area

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

Summary for Subcatchment P15.020:

Runoff = 0.24 cfs @ 12.07 hrs, Volume= 0.017 af, Depth= 3.18"
Routed to Pond 15.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	1,627	74	>75% Grass cover, Good, HSG C
*	1,112	98	Pavement
	2,739	84	Weighted Average
	1,627	74	59.40% Pervious Area
	1,112	98	40.60% Impervious Area

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

Summary for Subcatchment P15.030:

Runoff = 0.56 cfs @ 12.07 hrs, Volume= 0.039 af, Depth= 3.18"
Routed to Pond 16.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	3,799	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
	6,399	84	Weighted Average
	3,799	74	59.37% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P15.050:

Runoff = 0.41 cfs @ 12.07 hrs, Volume= 0.029 af, Depth= 3.78"
Routed to Pond 15.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	1,358	74	>75% Grass cover, Good, HSG C
*	2,627	98	Pavement
	3,985	90	Weighted Average
	1,358	74	34.08% Pervious Area
	2,627	98	65.92% Impervious Area

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

Summary for Subcatchment P15.055:

Runoff = 0.15 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 4.66"
Routed to Pond 15.055 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P15.060:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 15.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P15.065:

Runoff = 0.15 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 4.66"
Routed to Pond 15.065 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P16.010:

Runoff = 0.44 cfs @ 12.07 hrs, Volume= 0.031 af, Depth= 3.78"
Routed to Pond 16.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	1,517	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
*	223	98	Driveway
	4,340	90	Weighted Average
	1,517	74	34.95% Pervious Area
	2,823	98	65.05% Impervious Area

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

Summary for Subcatchment P17.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.32"
Routed to Pond 17.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	346	74	>75% Grass cover, Good, HSG C
*	2,397	98	Pavement
	2,743	95	Weighted Average
	346	74	12.61% Pervious Area
	2,397	98	87.39% Impervious Area

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

Summary for Subcatchment P18.010:

Runoff = 6.50 cfs @ 12.12 hrs, Volume= 0.501 af, Depth= 2.54"
Routed to Pond 18.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,612	98	Assisted Living
*	5,400	98	Residence
*	1,671	98	Driveway
*	2,500	98	Pavement
	89,843	74	>75% Grass cover, Good, HSG C
	103,026	77	Weighted Average
	89,843	74	87.20% Pervious Area
	13,183	98	12.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.5	82	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.3	548	Total			

Summary for Subcatchment P19.010:

Runoff = 0.68 cfs @ 12.14 hrs, Volume= 0.055 af, Depth= 3.08"
Routed to Pond 19.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	672	98	Driveway
*	1,217	98	Pavement
	5,672	74	>75% Grass cover, Good, HSG C
	9,361	83	Weighted Average
	5,672	74	60.59% Pervious Area
	3,689	98	39.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	50	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.0	170	Total			

Summary for Subcatchment P19.020:

Runoff = 0.14 cfs @ 12.07 hrs, Volume= 0.011 af, Depth= 4.66"
Routed to Pond 19.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,266	98	Pavement
	1,266	98	100.00% Impervious Area

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

Summary for Subcatchment P19.030:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 19.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P2.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 2.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P20.010:

Runoff = 1.50 cfs @ 12.15 hrs, Volume= 0.125 af, Depth= 3.08"
Routed to Pond 20.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,344	98	Driveway
*	2,600	98	Pavement
	13,626	74	>75% Grass cover, Good, HSG C
	21,170	83	Weighted Average
	13,626	74	64.36% Pervious Area
	7,544	98	35.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	94	0.0400	3.22		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.6	104	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.7	298	Total			

Summary for Subcatchment P201-U1:

Runoff = 1.95 cfs @ 12.07 hrs, Volume= 0.134 af, Depth= 3.08"
Routed to Pond P201-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	8,455	98	Sand Filter
	14,316	74	>75% Grass cover, Good, HSG C
	22,771	83	Weighted Average
	14,316	74	62.87% Pervious Area
	8,455	98	37.13% Impervious Area

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

Summary for Subcatchment P201-U2:

Runoff = 3.77 cfs @ 12.07 hrs, Volume= 0.272 af, Depth= 3.99"
Routed to Pond P201-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	26,017	98	Basin
	9,639	74	>75% Grass cover, Good, HSG C
	35,656	92	Weighted Average
	9,639	74	27.03% Pervious Area
	26,017	98	72.97% Impervious Area

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

Summary for Subcatchment P202-U1:

Runoff = 3.37 cfs @ 12.10 hrs, Volume= 0.245 af, Depth= 2.81"
Routed to Pond P202B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	7,200	98	Residence
*	2,705	98	Driveway
*	35,036	74	>75% Grass cover, Good, HSG C
*	622	98	Sand Filter
	45,563	80	Weighted Average
	35,036	74	76.90% Pervious Area
	10,527	98	23.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.8	181	0.0550	3.78		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.6	281	Total			

Summary for Subcatchment P202-U2:

Runoff = 2.57 cfs @ 12.10 hrs, Volume= 0.195 af, Depth= 3.68"
Routed to Pond P202-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	10,612	74	>75% Grass cover, Good, HSG C
*	17,157	98	Detention Basin
	27,769	89	Weighted Average
	10,612	74	38.22% Pervious Area
	17,157	98	61.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Lawns**
					Grass: Short n= 0.150 P2= 3.30"
0.4	90	0.0667	4.16		**Shallow Concentrated Flow, Lawnd**
					Unpaved Kv= 16.1 fps
7.1	190	Total			

Summary for Subcatchment P202-U3:

Runoff = 7.71 cfs @ 12.10 hrs, Volume= 0.573 af, Depth= 2.99"
Routed to Pond P202A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	12,758	98	Detention Basin
	66,887	74	>75% Grass cover, Good, HSG C
*	10,800	98	Residence
*	4,079	98	Driveway
*	5,600	98	Sand Filter
	100,124	82	Weighted Average
	66,887	74	66.80% Pervious Area
	33,237	98	33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawns** Grass: Short n= 0.150 P2= 3.30"
1.0	235	0.0638	4.07		**Shallow Concentrated Flow, Lawns** Unpaved Kv= 16.1 fps
7.2	335	Total			

Summary for Subcatchment P203-U1:

Runoff = 5.41 cfs @ 12.08 hrs, Volume= 0.380 af, Depth= 2.81"
Routed to Pond P203-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,577	98	Driveway
*	5,319	98	Sand Filter
	52,895	74	>75% Grass cover, Good, HSG C
	70,791	80	Weighted Average
	52,895	74	74.72% Pervious Area
	17,896	98	25.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	67	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
5.7	167	Total			

Summary for Subcatchment P203-U2:

Runoff = 5.94 cfs @ 12.09 hrs, Volume= 0.425 af, Depth= 3.18"
Routed to Pond P203-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,173	98	Driveway
*	15,076	98	Detention Basin
	39,786	74	>75% Grass cover, Good, HSG C
	69,835	84	Weighted Average
	39,786	74	56.97% Pervious Area
	30,049	98	43.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.2	63	0.1100	5.34		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.0	163	Total			

Summary for Subcatchment P203-U3:

Runoff = 3.27 cfs @ 12.07 hrs, Volume= 0.225 af, Depth= 2.99"
Routed to Pond P203-FB : FOREBAY (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	19,103	89	Gravel Parking Lot
*	871	98	Sediment Forebay
	19,326	74	>75% Grass cover, Good, HSG C
	39,300	82	Weighted Average
	38,429	81	97.78% Pervious Area
	871	98	2.22% Impervious Area

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

Summary for Subcatchment P204A-U1:

Runoff = 4.71 cfs @ 12.12 hrs, Volume= 0.363 af, Depth= 2.81"
Routed to Pond P204A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,472	98	Driveway
*	4,795	98	Sand Filter
	50,283	74	>75% Grass cover, Good, HSG C
	67,550	80	Weighted Average
	50,283	74	74.44% Pervious Area
	17,267	98	25.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	38	0.3300	9.25		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
2.0	281	0.0210	2.33		**Shallow Concentrated Flow, Swale**
					Unpaved Kv= 16.1 fps
8.3	419	Total			

Summary for Subcatchment P204A-U2:

Runoff = 2.90 cfs @ 12.10 hrs, Volume= 0.221 af, Depth= 3.57"
Routed to Pond P204A-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	19,412	98	Detention Basin
	12,890	74	>75% Grass cover, Good, HSG C
	32,302	88	Weighted Average
	12,890	74	39.90% Pervious Area
	19,412	98	60.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	50	0.1600	6.44		**Shallow Concentrated Flow, Lawn** Unpaved Kv= 16.1 fps
7.4	150	Total			

Summary for Subcatchment P204B-U1:

Runoff = 5.52 cfs @ 12.12 hrs, Volume= 0.426 af, Depth= 2.72"
Routed to Pond P204B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,106	98	Driveway
*	1,350	98	Sand Filter
	65,774	74	>75% Grass cover, Good, HSG C
	82,030	79	Weighted Average
	65,774	74	80.18% Pervious Area
	16,256	98	19.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	55	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.5	233	0.0250	2.55		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
8.4	388	Total			

Summary for Subcatchment P21.010:

Runoff = 0.46 cfs @ 12.13 hrs, Volume= 0.037 af, Depth= 2.90"
Routed to Pond 21.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,965	98	Pavement
	4,641	74	>75% Grass cover, Good, HSG C
	6,606	81	Weighted Average
	4,641	74	70.25% Pervious Area
	1,965	98	29.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"

Summary for Subcatchment P21.020:

Runoff = 0.12 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 4.66"
Routed to Pond 21.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,042	98	Pavement
	1,042	98	100.00% Impervious Area

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

Summary for Subcatchment P22.010:

Runoff = 4.02 cfs @ 12.13 hrs, Volume= 0.322 af, Depth= 2.37"
Routed to Pond 22.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,300	98	Pavement
*	1,800	98	Residence
*	672	98	Driveway
	67,347	74	>75% Grass cover, Good, HSG C
	71,119	75	Weighted Average
	67,347	74	94.70% Pervious Area
	3,772	98	5.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.0450	0.24		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
2.4	437	0.0360	3.05		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
9.4	537	Total			

Summary for Subcatchment P23.010:

Runoff = 5.05 cfs @ 12.10 hrs, Volume= 0.378 af, Depth= 3.37"
Routed to Pond 23.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	3,612	98	Assisted Living
*	12,524	98	Driveway
*	1,285	98	Pavement
	30,293	74	>75% Grass cover, Good, HSG C
	58,514	86	Weighted Average
	30,293	74	51.77% Pervious Area
	28,221	98	48.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, 95% grass** Unpaved Kv= 16.1 fps
7.1	466	Total			

Summary for Subcatchment P24.010:

Runoff = 1.47 cfs @ 12.16 hrs, Volume= 0.124 af, Depth= 2.99"
Routed to Pond 24.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,562	98	Driveway
	14,626	74	>75% Grass cover, Good, HSG C
*	1,908	98	Pavement
	21,696	82	Weighted Average
	14,626	74	67.41% Pervious Area
	7,070	98	32.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	67	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	135	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
11.2	302	Total			

Summary for Subcatchment P25.010:

Runoff = 0.55 cfs @ 12.07 hrs, Volume= 0.043 af, Depth= 4.66"
Routed to Pond 25.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	4,843	98	Pavement
	4,843	98	100.00% Impervious Area

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

Summary for Subcatchment P25.020:

Runoff = 2.62 cfs @ 12.15 hrs, Volume= 0.219 af, Depth= 2.72"
Routed to Pond 25.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,365	98	Driveway
*	4,581	98	Pavement
	32,695	74	>75% Grass cover, Good, HSG C
	42,241	79	Weighted Average
	32,695	74	77.40% Pervious Area
	9,546	98	22.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	104	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.8	102	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.9	306	Total			

Summary for Subcatchment P26.010:

Runoff = 0.62 cfs @ 12.12 hrs, Volume= 0.048 af, Depth= 3.08"
Routed to Pond 26.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,800	98	Residence
	5,090	74	>75% Grass cover, Good, HSG C
*	470	98	Pavement
*	707	98	Driveway
	8,067	83	Weighted Average
	5,090	74	63.10% Pervious Area
	2,977	98	36.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	100	0.0330	0.21		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	87	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
8.3	187	Total			

Summary for Subcatchment P26.015:

Runoff = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af, Depth= 4.66"
Routed to Pond 26.015 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	476	98	Pavement
	476	98	100.00% Impervious Area

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

Summary for Subcatchment P26.020:

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 0.017 af, Depth= 4.66"
Routed to Pond 26.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,936	98	Pavement
	1,936	98	100.00% Impervious Area

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

Summary for Subcatchment P26.030:

Runoff = 0.54 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 4.66"
Routed to Pond 26.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	4,725	98	Pavement
	4,725	98	100.00% Impervious Area

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

Summary for Subcatchment P27.010:

Runoff = 1.69 cfs @ 12.11 hrs, Volume= 0.127 af, Depth= 2.90"
Routed to Pond 27.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	732	98	Driveway
	15,918	74	>75% Grass cover, Good, HSG C
*	4,381	98	Pavement
	22,831	81	Weighted Average
	15,918	74	69.72% Pervious Area
	6,913	98	30.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	63	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.4	50	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.4	213	Total			

Summary for Subcatchment P28.010:

Runoff = 1.43 cfs @ 12.15 hrs, Volume= 0.119 af, Depth= 3.08"
Routed to Pond 28.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,748	98	Driveway
	12,998	74	>75% Grass cover, Good, HSG C
*	1,788	98	Pavement
	20,134	83	Weighted Average
	12,998	74	64.56% Pervious Area
	7,136	98	35.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	35	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.7	127	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.6	262	Total			

Summary for Subcatchment P28.020:

Runoff = 0.20 cfs @ 12.07 hrs, Volume= 0.016 af, Depth= 4.66"
Routed to Pond 28.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	1,778	98	Pavement
	1,778	98	100.00% Impervious Area

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

Summary for Subcatchment P28.030:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 28.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P29.010:

Runoff = 1.61 cfs @ 12.12 hrs, Volume= 0.125 af, Depth= 3.08"
Routed to Pond 29.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,558	98	Driveway
	13,416	74	>75% Grass cover, Good, HSG C
*	2,602	98	Pavement
	21,176	83	Weighted Average
	13,416	74	63.35% Pervious Area
	7,760	98	36.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0350	0.22		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	10	0.0400	3.22		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.7	122	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.5	232	Total			

Summary for Subcatchment P3.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 3.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P4.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 4.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	2,608	98	100.00% Impervious Area

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

Summary for Subcatchment P5.010:

Runoff = 0.99 cfs @ 12.07 hrs, Volume= 0.070 af, Depth= 3.68"
Routed to Pond 5.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	6,272	98	Pavement
	3,653	74	>75% Grass cover, Good, HSG C
	9,925	89	Weighted Average
	3,653	74	36.81% Pervious Area
	6,272	98	63.19% Impervious Area

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

Summary for Subcatchment P5.020:

Runoff = 0.58 cfs @ 12.07 hrs, Volume= 0.040 af, Depth= 3.18"
Routed to Pond 5.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
	3,861	74	>75% Grass cover, Good, HSG C
*	2,746	98	Pavement
	6,607	84	Weighted Average
	3,861	74	58.44% Pervious Area
	2,746	98	41.56% Impervious Area

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

Summary for Subcatchment P6.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 6.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P7.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 7.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,625	98	Pavement
	2,625	98	100.00% Impervious Area

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

Summary for Subcatchment P8.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.024 af, Depth= 4.66"
Routed to Pond 8.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,646	98	Pavement
	2,646	98	100.00% Impervious Area

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

Summary for Subcatchment P9.010:

Runoff = 1.18 cfs @ 12.07 hrs, Volume= 0.084 af, Depth= 3.78"
Routed to Pond 9.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,258	98	Pavement
*	4,375	98	Driveway
	3,947	74	>75% Grass cover, Good, HSG C
	11,580	90	Weighted Average
	3,947	74	34.08% Pervious Area
	7,633	98	65.92% Impervious Area

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

Summary for Subcatchment P9.020:

Runoff = 0.25 cfs @ 12.07 hrs, Volume= 0.020 af, Depth= 4.66"
Routed to Pond 9.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,192	98	Pavement
	2,192	98	100.00% Impervious Area

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

Summary for Subcatchment P9.030:

Runoff = 0.29 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 4.66"
Routed to Pond 9.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,586	98	Pavement
	2,586	98	100.00% Impervious Area

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

Summary for Subcatchment P9.040:

Runoff = 0.92 cfs @ 12.07 hrs, Volume= 0.064 af, Depth= 3.18"
Routed to Pond 9.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,570	98	Pavement
*	1,648	98	Driveway
	6,243	74	>75% Grass cover, Good, HSG C
	10,461	84	Weighted Average
	6,243	74	59.68% Pervious Area
	4,218	98	40.32% Impervious Area

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

Summary for Subcatchment P9.050:

Runoff = 3.87 cfs @ 12.13 hrs, Volume= 0.307 af, Depth= 3.08"
Routed to Pond 9.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	3,077	98	Pavement
*	6,552	98	Tennis
*	9,000	98	Residence
*	1,723	98	Driveway
	31,697	74	>75% Grass cover, Good, HSG C
	52,049	83	Weighted Average
	31,697	74	60.90% Pervious Area
	20,352	98	39.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	354	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.2	20	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.1	474	Total			

Summary for Subcatchment P9.060:

Runoff = 0.32 cfs @ 12.07 hrs, Volume= 0.025 af, Depth= 4.66"
Routed to Pond 9.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-YEAR Rainfall=4.90"

	Area (sf)	CN	Description
*	2,836	98	Pavement
	2,836	98	100.00% Impervious Area

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

Summary for Pond 1.010:

Inflow Area = 0.019 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af
Outflow = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af
Routed to Pond 1.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.36' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.21' / 88.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.09 cfs @ 12.07 hrs HW=88.36' TW=87.87' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.09 cfs @ 1.88 fps)

Summary for Pond 1.020:

Inflow Area = 0.170 ac, 46.46% Impervious, Inflow Depth = 3.34" for 10-YEAR event
Inflow = 0.67 cfs @ 12.07 hrs, Volume= 0.047 af
Outflow = 0.67 cfs @ 12.07 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 0.67 cfs @ 12.07 hrs, Volume= 0.047 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 87.87' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.51'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.51' / 85.51' S= 0.0101 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.67 cfs @ 12.07 hrs HW=87.87' TW=85.82' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.67 cfs @ 2.05 fps)

Summary for Pond 1.030:

Inflow Area = 0.377 ac, 52.67% Impervious, Inflow Depth = 3.49" for 10-YEAR event
Inflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Outflow = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.53 cfs @ 12.07 hrs, Volume= 0.109 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.82' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.26'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.26' / 83.19' S= 0.0105 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.53 cfs @ 12.07 hrs HW=85.82' TW=81.14' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.53 cfs @ 2.55 fps)

Summary for Pond 1.040:

Inflow Area = 0.583 ac, 54.48% Impervious, Inflow Depth = 3.53" for 10-YEAR event
Inflow = 2.39 cfs @ 12.07 hrs, Volume= 0.172 af
Outflow = 2.39 cfs @ 12.07 hrs, Volume= 0.172 af, Atten= 0%, Lag= 0.0 min
Primary = 2.39 cfs @ 12.07 hrs, Volume= 0.172 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 81.15' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	80.43'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 80.43' / 69.54' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.39 cfs @ 12.07 hrs HW=81.14' TW=67.55' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 2.39 cfs @ 2.88 fps)

Summary for Pond 1.050:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 3.55" for 10-YEAR event
Inflow = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af
Outflow = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af
Routed to Pond 1.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.55' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.70'	**18.0" Round 18" ADS** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 66.70' / 61.75' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.25 cfs @ 12.07 hrs HW=67.55' TW=62.35' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.25 cfs @ 3.14 fps)

Summary for Pond 1.060:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 3.55" for 10-YEAR event
Inflow = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af
Outflow = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min
Primary = 3.26 cfs @ 12.07 hrs, Volume= 0.234 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.35' @ 12.07 hrs
Flood Elev= 67.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	**18.0" Round 18" ADS** L= 98.0' Ke= 0.500 Inlet / Outlet Invert= 61.50' / 57.80' S= 0.0378 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.25 cfs @ 12.07 hrs HW=62.35' TW=58.55' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.25 cfs @ 3.14 fps)

Summary for Pond 1.070:

Inflow Area = 1.294 ac, 55.83% Impervious, Inflow Depth = 3.54" for 10-YEAR event
Inflow = 5.37 cfs @ 12.07 hrs, Volume= 0.382 af
Outflow = 5.37 cfs @ 12.07 hrs, Volume= 0.382 af, Atten= 0%, Lag= 0.0 min
Primary = 5.37 cfs @ 12.07 hrs, Volume= 0.382 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.56' @ 12.08 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.30'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.30' / 57.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=5.22 cfs @ 12.07 hrs HW=58.55' TW=58.20' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 5.22 cfs @ 3.61 fps)

Summary for Pond 1.080:

Inflow Area = 2.377 ac, 47.31% Impervious, Inflow Depth = 3.33" for 10-YEAR event
Inflow = 8.99 cfs @ 12.08 hrs, Volume= 0.660 af
Outflow = 8.99 cfs @ 12.08 hrs, Volume= 0.660 af, Atten= 0%, Lag= 0.0 min
Primary = 8.99 cfs @ 12.08 hrs, Volume= 0.660 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.21' @ 12.08 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.85'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 56.85' / 54.87' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.93 cfs @ 12.08 hrs HW=58.21' TW=56.49' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 8.93 cfs @ 5.57 fps)

Summary for Pond 1.090:

Inflow Area = 4.259 ac, 37.28% Impervious, Inflow Depth = 3.09" for 10-YEAR event
Inflow = 13.95 cfs @ 12.10 hrs, Volume= 1.096 af
Outflow = 13.95 cfs @ 12.10 hrs, Volume= 1.096 af, Atten= 0%, Lag= 0.0 min
Primary = 13.95 cfs @ 12.10 hrs, Volume= 1.096 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.54' @ 12.10 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.62'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 54.62' / 52.64' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=13.76 cfs @ 12.10 hrs HW=56.53' TW=54.92' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 13.76 cfs @ 5.72 fps)

Summary for Pond 1.100:

Inflow Area = 6.301 ac, 34.44% Impervious, Inflow Depth = 3.01" for 10-YEAR event
Inflow = 19.27 cfs @ 12.11 hrs, Volume= 1.583 af
Outflow = 19.27 cfs @ 12.11 hrs, Volume= 1.583 af, Atten= 0%, Lag= 0.0 min
Primary = 19.27 cfs @ 12.11 hrs, Volume= 1.583 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.94' @ 12.11 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.39'	**30.0" Round 30" ADS** L= 124.0' Ke= 0.500 Inlet / Outlet Invert= 52.39' / 51.46' S= 0.0075 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=19.26 cfs @ 12.11 hrs HW=54.94' TW=54.14' (Dynamic Tailwater)
↑—**1=30" ADS** (Outlet Controls 19.26 cfs @ 4.78 fps)

Summary for Pond 1.110: Diversion

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 3.12" for 10-YEAR event
Inflow = 28.22 cfs @ 12.10 hrs, Volume= 2.292 af
Outflow = 28.22 cfs @ 12.10 hrs, Volume= 2.292 af, Atten= 0%, Lag= 0.0 min
Primary = 9.58 cfs @ 12.10 hrs, Volume= 1.815 af
Routed to Pond 1.120 : HS
Secondary = 18.65 cfs @ 12.10 hrs, Volume= 0.477 af
Routed to Pond P201-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.14' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	51.21'	**18.0" Round 18" ADS to 201-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 51.21' / 51.11' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Secondary	52.25'	**30.0" Round 30" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 52.25' / 50.25' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=9.56 cfs @ 12.10 hrs HW=54.14' TW=52.88' (Dynamic Tailwater)
↑—**1=18" ADS to 201-SF Separator** (Inlet Controls 9.56 cfs @ 5.41 fps)

Secondary OutFlow Max=18.62 cfs @ 12.10 hrs HW=54.14' TW=48.89' (Dynamic Tailwater)
↑—**2=30" ADS** (Inlet Controls 18.62 cfs @ 4.68 fps)

Summary for Pond 1.120: HS

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 2.47" for 10-YEAR event
Inflow = 9.58 cfs @ 12.10 hrs, Volume= 1.815 af
Outflow = 9.58 cfs @ 12.10 hrs, Volume= 1.815 af, Atten= 0%, Lag= 0.0 min
Primary = 9.58 cfs @ 12.10 hrs, Volume= 1.815 af
Routed to Pond P201-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.88' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.86'	**18.0" Round 18" ADS** L= 80.0' Ke= 0.500 Inlet / Outlet Invert= 50.86' / 50.00' S= 0.0107 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=9.57 cfs @ 12.10 hrs HW=52.88' TW=51.11' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 9.57 cfs @ 5.42 fps)

Summary for Pond 2.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.49' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	86.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 86.21' / 86.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=86.49' TW=85.82' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.48 fps)

Summary for Pond 3.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 84.17' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	83.89'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 83.89' / 83.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=84.17' TW=81.15' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.48 fps)

Summary for Pond 4.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 70.52' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	70.24'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 70.24' / 70.04' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=70.52' TW=67.55' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.48 fps)

Summary for Pond 5.010:

Inflow Area = 0.228 ac, 63.19% Impervious, Inflow Depth = 3.68" for 10-YEAR event
Inflow = 0.99 cfs @ 12.07 hrs, Volume= 0.070 af
Outflow = 0.99 cfs @ 12.07 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
Primary = 0.99 cfs @ 12.07 hrs, Volume= 0.070 af
Routed to Pond 5.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.83' @ 12.07 hrs
Flood Elev= 62.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.30'	**12.0" Round 12" ADS** L= 55.0' Ke= 0.500 Inlet / Outlet Invert= 59.30' / 58.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.98 cfs @ 12.07 hrs HW=59.83' TW=59.24' (Dynamic Tailwater)
1=12" ADS (Outlet Controls 0.98 cfs @ 3.39 fps)

Summary for Pond 5.020:

Inflow Area = 0.380 ac, 54.55% Impervious, Inflow Depth = 3.48" for 10-YEAR event
Inflow = 1.57 cfs @ 12.07 hrs, Volume= 0.110 af
Outflow = 1.57 cfs @ 12.07 hrs, Volume= 0.110 af, Atten= 0%, Lag= 0.0 min
Primary = 1.57 cfs @ 12.07 hrs, Volume= 0.110 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.24' @ 12.07 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.50' / 58.30' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.57 cfs @ 12.07 hrs HW=59.24' TW=58.55' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 1.57 cfs @ 3.52 fps)

Summary for Pond 6.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.58' @ 12.07 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.30' / 58.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=58.58' TW=58.20' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.48 fps)

Summary for Pond 7.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.16' @ 12.07 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.92'	**20.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 59.92' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 2.18 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=60.16' TW=56.43' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.35 fps)

Summary for Pond 8.010:

Inflow Area = 0.061 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.024 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.024 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.20' @ 12.07 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.92'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.92' / 61.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=62.20' TW=54.78' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.49 fps)

Summary for Pond 9.010:

Inflow Area = 0.266 ac, 65.92% Impervious, Inflow Depth = 3.78" for 10-YEAR event
Inflow = 1.18 cfs @ 12.07 hrs, Volume= 0.084 af
Outflow = 1.18 cfs @ 12.07 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
Primary = 1.18 cfs @ 12.07 hrs, Volume= 0.084 af
Routed to Pond 9.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.16' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.54'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 85.54' / 85.34' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.18 cfs @ 12.07 hrs HW=86.16' TW=85.63' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 1.18 cfs @ 3.32 fps)

Summary for Pond 9.020:

Inflow Area = 0.316 ac, 71.34% Impervious, Inflow Depth = 3.92" for 10-YEAR event
Inflow = 1.43 cfs @ 12.07 hrs, Volume= 0.103 af
Outflow = 1.43 cfs @ 12.07 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min
Primary = 1.43 cfs @ 12.07 hrs, Volume= 0.103 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.63' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.09'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.09' / 76.29' S= 0.0444 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.43 cfs @ 12.07 hrs HW=85.63' TW=76.93' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.43 cfs @ 2.50 fps)

Summary for Pond 9.030:

Inflow Area = 0.783 ac, 70.43% Impervious, Inflow Depth = 3.90" for 10-YEAR event
Inflow = 3.53 cfs @ 12.07 hrs, Volume= 0.255 af
Outflow = 3.53 cfs @ 12.07 hrs, Volume= 0.255 af, Atten= 0%, Lag= 0.0 min
Primary = 3.53 cfs @ 12.07 hrs, Volume= 0.255 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 76.93' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.04'	**18.0" Round 18" ADS** L= 195.0' Ke= 0.500 Inlet / Outlet Invert= 76.04' / 65.39' S= 0.0546 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.53 cfs @ 12.07 hrs HW=76.93' TW=66.28' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.53 cfs @ 3.22 fps)

Summary for Pond 9.040:

Inflow Area = 1.265 ac, 56.56% Impervious, Inflow Depth = 3.57" for 10-YEAR event
Inflow = 5.23 cfs @ 12.07 hrs, Volume= 0.377 af
Outflow = 5.23 cfs @ 12.07 hrs, Volume= 0.377 af, Atten= 0%, Lag= 0.0 min
Primary = 5.23 cfs @ 12.07 hrs, Volume= 0.377 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.28' @ 12.07 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.14'	**18.0" Round 18" ADS** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 65.14' / 61.24' S= 0.0205 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=5.22 cfs @ 12.07 hrs HW=66.28' TW=62.83' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 5.22 cfs @ 3.63 fps)

Summary for Pond 9.050:

Inflow Area = 2.525 ac, 49.42% Impervious, Inflow Depth = 3.37" for 10-YEAR event
Inflow = 9.04 cfs @ 12.09 hrs, Volume= 0.709 af
Outflow = 9.04 cfs @ 12.09 hrs, Volume= 0.709 af, Atten= 0%, Lag= 0.0 min
Primary = 9.04 cfs @ 12.09 hrs, Volume= 0.709 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.87' @ 12.09 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.99'	**18.0" Round 18" ADS** L= 92.0' Ke= 0.500 Inlet / Outlet Invert= 60.99' / 56.39' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=9.03 cfs @ 12.09 hrs HW=62.87' TW=54.13' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 9.03 cfs @ 5.11 fps)

Summary for Pond 9.060:

Inflow Area = 0.065 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.32 cfs @ 12.07 hrs, Volume= 0.025 af
Outflow = 0.32 cfs @ 12.07 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.07 hrs, Volume= 0.025 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.20' @ 12.07 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.92'	**12.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.92' / 62.92' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.32 cfs @ 12.07 hrs HW=64.20' TW=62.80' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.32 cfs @ 1.80 fps)

Summary for Pond 10.010:

Inflow Area = 0.408 ac, 65.43% Impervious, Inflow Depth = 3.78" for 10-YEAR event
Inflow = 1.81 cfs @ 12.07 hrs, Volume= 0.128 af
Outflow = 1.81 cfs @ 12.07 hrs, Volume= 0.128 af, Atten= 0%, Lag= 0.0 min
Primary = 1.81 cfs @ 12.07 hrs, Volume= 0.128 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.80' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.99'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.99' / 76.79' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.81 cfs @ 12.07 hrs HW=77.80' TW=76.93' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 1.81 cfs @ 3.63 fps)

Summary for Pond 11.010:

Inflow Area = 0.242 ac, 27.76% Impervious, Inflow Depth = 2.90" for 10-YEAR event
Inflow = 0.80 cfs @ 12.10 hrs, Volume= 0.058 af
Outflow = 0.80 cfs @ 12.10 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min
Primary = 0.80 cfs @ 12.10 hrs, Volume= 0.058 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.59' @ 12.09 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.09'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.09' / 65.89' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.81 cfs @ 12.10 hrs HW=66.58' TW=66.25' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.81 cfs @ 3.07 fps)

Summary for Pond 12.010:

Inflow Area = 2.589 ac, 23.84% Impervious, Inflow Depth = 2.81" for 10-YEAR event
Inflow = 7.74 cfs @ 12.12 hrs, Volume= 0.605 af
Outflow = 7.74 cfs @ 12.12 hrs, Volume= 0.605 af, Atten= 0%, Lag= 0.0 min
Primary = 7.74 cfs @ 12.12 hrs, Volume= 0.605 af
Routed to Pond 12.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.88' @ 12.12 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.47' / 61.27' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.73 cfs @ 12.12 hrs HW=62.88' TW=62.30' (Dynamic Tailwater)
1=24" ADS (Barrel Controls 7.73 cfs @ 4.57 fps)

Summary for Pond 12.020:

Inflow Area = 2.700 ac, 26.97% Impervious, Inflow Depth = 2.88" for 10-YEAR event
Inflow = 8.18 cfs @ 12.12 hrs, Volume= 0.648 af
Outflow = 8.18 cfs @ 12.12 hrs, Volume= 0.648 af, Atten= 0%, Lag= 0.0 min
Primary = 8.18 cfs @ 12.12 hrs, Volume= 0.648 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.30' @ 12.12 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.02'	**24.0" Round 24" ADS** L= 148.0' Ke= 0.500 Inlet / Outlet Invert= 61.02' / 59.57' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=8.18 cfs @ 12.12 hrs HW=62.30' TW=60.66' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 8.18 cfs @ 3.85 fps)

Summary for Pond 12.030:

Inflow Area = 3.346 ac, 28.43% Impervious, Inflow Depth = 2.92" for 10-YEAR event
Inflow = 9.90 cfs @ 12.13 hrs, Volume= 0.813 af
Outflow = 9.90 cfs @ 12.13 hrs, Volume= 0.813 af, Atten= 0%, Lag= 0.0 min
Primary = 9.90 cfs @ 12.13 hrs, Volume= 0.813 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.66' @ 12.13 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**24.0" Round 24" ADS** L= 132.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 57.90' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.88 cfs @ 12.13 hrs HW=60.66' TW=59.02' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 9.88 cfs @ 4.08 fps)

Summary for Pond 12.040:

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 2.97" for 10-YEAR event
Inflow = 13.08 cfs @ 12.12 hrs, Volume= 1.089 af
Outflow = 13.08 cfs @ 12.12 hrs, Volume= 1.089 af, Atten= 0%, Lag= 0.0 min
Primary = 13.08 cfs @ 12.12 hrs, Volume= 1.089 af
Routed to Pond 12.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.02' @ 12.12 hrs
Flood Elev= 69.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**30.0" Round 30" ADS** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.36' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.04 cfs @ 12.12 hrs HW=59.02' TW=57.91' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 13.04 cfs @ 5.51 fps)

Summary for Pond 12.050: Diversion

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 2.97" for 10-YEAR event
Inflow = 13.08 cfs @ 12.12 hrs, Volume= 1.089 af
Outflow = 13.08 cfs @ 12.12 hrs, Volume= 1.089 af, Atten= 0%, Lag= 0.0 min
Primary = 3.55 cfs @ 12.11 hrs, Volume= 0.808 af
Routed to Pond 12.060 : HS
Secondary = 9.53 cfs @ 12.12 hrs, Volume= 0.281 af
Routed to Pond P203-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.91' @ 12.12 hrs
Flood Elev= 63.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	**12.0" Round 12" ADS To P203-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 56.00' / 55.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Secondary	56.65'	**30.0" Round 30" ADS** L= 111.0' Ke= 0.500 Inlet / Outlet Invert= 56.65' / 54.00' S= 0.0239 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=3.55 cfs @ 12.11 hrs HW=57.91' TW=57.03' (Dynamic Tailwater)
↑—**1=12" ADS To P203-SF Separator** (Inlet Controls 3.55 cfs @ 4.52 fps)

Secondary OutFlow Max=9.52 cfs @ 12.12 hrs HW=57.91' TW=52.60' (Dynamic Tailwater)
↑—**2=30" ADS** (Inlet Controls 9.52 cfs @ 3.83 fps)

Summary for Pond 12.060: HS

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 2.20" for 10-YEAR event
Inflow = 3.55 cfs @ 12.11 hrs, Volume= 0.808 af
Outflow = 3.55 cfs @ 12.11 hrs, Volume= 0.808 af, Atten= 0%, Lag= 0.0 min
Primary = 3.55 cfs @ 12.11 hrs, Volume= 0.808 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.03' @ 12.11 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.65'	**12.0" Round 12" ADS** L= 72.0' Ke= 0.500 Inlet / Outlet Invert= 55.65' / 54.00' S= 0.0229 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.55 cfs @ 12.11 hrs HW=57.03' TW=53.08' (Dynamic Tailwater)
↑—**1=12" ADS** (Inlet Controls 3.55 cfs @ 4.52 fps)

Summary for Pond 13.010:

Inflow Area = 0.586 ac, 27.82% Impervious, Inflow Depth = 2.90" for 10-YEAR event
Inflow = 1.61 cfs @ 12.17 hrs, Volume= 0.142 af
Outflow = 1.61 cfs @ 12.17 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 1.61 cfs @ 12.17 hrs, Volume= 0.142 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.21' @ 12.17 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.58'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.58' / 63.38' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.61 cfs @ 12.17 hrs HW=64.21' TW=60.58' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 1.61 cfs @ 3.39 fps)

Summary for Pond 14.010:

Inflow Area = 0.370 ac, 46.30% Impervious, Inflow Depth = 3.28" for 10-YEAR event
Inflow = 1.46 cfs @ 12.07 hrs, Volume= 0.101 af
Outflow = 1.46 cfs @ 12.07 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min
Primary = 1.46 cfs @ 12.07 hrs, Volume= 0.101 af
Routed to Pond 14.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.29' @ 12.08 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.66'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500

Inlet / Outlet Invert= 65.66' / 65.46' S= 0.0100 '/' Cc= 0.900
n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.42 cfs @ 12.07 hrs HW=66.29' TW=66.01' (Dynamic Tailwater)
↑—**1=18" ADS** (Outlet Controls 1.42 cfs @ 3.01 fps)

Summary for Pond 14.020:

Inflow Area = 0.611 ac, 37.49% Impervious, Inflow Depth = 3.09" for 10-YEAR event
Inflow = 2.28 cfs @ 12.07 hrs, Volume= 0.157 af
Outflow = 2.28 cfs @ 12.07 hrs, Volume= 0.157 af, Atten= 0%, Lag= 0.0 min
Primary = 2.28 cfs @ 12.07 hrs, Volume= 0.157 af
Routed to Pond 14.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.01' @ 12.08 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.21'	**18.0" Round 18" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 65.21' / 65.03' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.23 cfs @ 12.07 hrs HW=66.01' TW=65.67' (Dynamic Tailwater)
↑—**1=18" ADS** (Outlet Controls 2.23 cfs @ 3.41 fps)

Summary for Pond 14.030:

Inflow Area = 0.991 ac, 35.25% Impervious, Inflow Depth = 3.05" for 10-YEAR event
Inflow = 3.09 cfs @ 12.09 hrs, Volume= 0.252 af
Outflow = 3.09 cfs @ 12.09 hrs, Volume= 0.252 af, Atten= 0%, Lag= 0.0 min
Primary = 3.09 cfs @ 12.09 hrs, Volume= 0.252 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.68' @ 12.09 hrs
Flood Elev= 69.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.78'	**18.0" Round 18" ADS** L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 64.78' / 64.53' S= 0.0104 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.09 cfs @ 12.09 hrs HW=65.68' TW=58.97' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 3.09 cfs @ 4.00 fps)

Summary for Pond 15.010:

Inflow Area = 0.035 ac, 73.21% Impervious, Inflow Depth = 3.99" for 10-YEAR event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Outflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Routed to Pond 15.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.47' @ 12.07 hrs
Flood Elev= 92.47'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.27'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.27' / 88.07' S= 0.0100 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.07 hrs HW=88.47' TW=88.15' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.16 cfs @ 2.15 fps)

Summary for Pond 15.020:

Inflow Area = 0.098 ac, 52.25% Impervious, Inflow Depth = 3.47" for 10-YEAR event
Inflow = 0.40 cfs @ 12.07 hrs, Volume= 0.028 af
Outflow = 0.40 cfs @ 12.07 hrs, Volume= 0.028 af, Atten= 0%, Lag= 0.0 min
Primary = 0.40 cfs @ 12.07 hrs, Volume= 0.028 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.15' @ 12.07 hrs
Flood Elev= 92.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.87'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.87' / 76.44' S= 0.0577 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.40 cfs @ 12.07 hrs HW=88.15' TW=76.28' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.40 cfs @ 1.79 fps)

Summary for Pond 15.040:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 3.44" for 10-YEAR event
Inflow = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af
Outflow = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
Primary = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.61' @ 12.07 hrs
Flood Elev= 72.99'

Device	Routing	Invert	Outlet Devices
#1	Primary	68.08'	**18.0" Round 18" ADS** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 68.08' / 64.49' S= 0.0552 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.41 cfs @ 12.07 hrs HW=68.61' TW=64.59' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.41 cfs @ 2.49 fps)

Summary for Pond 15.050:

Inflow Area = 0.499 ac, 58.33% Impervious, Inflow Depth = 3.61" for 10-YEAR event
Inflow = 2.12 cfs @ 12.07 hrs, Volume= 0.150 af
Outflow = 2.12 cfs @ 12.07 hrs, Volume= 0.150 af, Atten= 0%, Lag= 0.0 min
Primary = 2.12 cfs @ 12.07 hrs, Volume= 0.150 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.59' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.99'	**24.0" Round 24" ADS** L= 96.0' Ke= 0.500 Inlet / Outlet Invert= 63.99' / 58.57' S= 0.0565 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=2.11 cfs @ 12.07 hrs HW=64.59' TW=59.68' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 2.11 cfs @ 2.65 fps)

Summary for Pond 15.055:

Inflow Area = 1.872 ac, 51.75% Impervious, Inflow Depth = 3.46" for 10-YEAR event
Inflow = 7.22 cfs @ 12.09 hrs, Volume= 0.539 af
Outflow = 7.22 cfs @ 12.09 hrs, Volume= 0.539 af, Atten= 0%, Lag= 0.0 min
Primary = 7.22 cfs @ 12.09 hrs, Volume= 0.539 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.79' @ 12.11 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.32'	**24.0" Round 24" ADS** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 58.32' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.83 cfs @ 12.09 hrs HW=59.76' TW=59.16' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 6.83 cfs @ 3.96 fps)

Summary for Pond 15.060:

Inflow Area = 4.297 ac, 30.98% Impervious, Inflow Depth = 2.97" for 10-YEAR event
Inflow = 13.81 cfs @ 12.10 hrs, Volume= 1.063 af
Outflow = 13.81 cfs @ 12.10 hrs, Volume= 1.063 af, Atten= 0%, Lag= 0.0 min
Primary = 13.81 cfs @ 12.10 hrs, Volume= 1.063 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.23' @ 12.11 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.12'	**24.0" Round 24" ADS** L= 97.0' Ke= 0.500 Inlet / Outlet Invert= 57.12' / 56.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=13.55 cfs @ 12.10 hrs HW=59.21' TW=58.27' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 13.55 cfs @ 5.13 fps)

Summary for Pond 15.065:

Inflow Area = 5.959 ac, 24.29% Impervious, Inflow Depth = 2.81" for 10-YEAR event
Inflow = 17.80 cfs @ 12.11 hrs, Volume= 1.397 af
Outflow = 17.80 cfs @ 12.11 hrs, Volume= 1.397 af, Atten= 0%, Lag= 0.0 min
Primary = 17.80 cfs @ 12.11 hrs, Volume= 1.397 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.28' @ 12.11 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.90'	**24.0" Round 24" ADS** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 55.90' / 55.28' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=17.79 cfs @ 12.11 hrs HW=58.28' TW=56.55' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 17.79 cfs @ 5.66 fps)

Summary for Pond 15.070:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 2.87" for 10-YEAR event
Inflow = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af
Outflow = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af, Atten= 0%, Lag= 0.0 min
Primary = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af
Routed to Pond 15.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.55' @ 12.11 hrs
Flood Elev= 64.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.55'	**30.0" Round 30" ADS** L= 125.0' Ke= 0.500 Inlet / Outlet Invert= 54.55' / 52.80' S= 0.0140 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=20.23 cfs @ 12.11 hrs HW=56.55' TW=54.71' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 20.23 cfs @ 4.81 fps)

Summary for Pond 15.080:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 2.87" for 10-YEAR event
Inflow = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af
Outflow = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af, Atten= 0%, Lag= 0.0 min
Primary = 20.24 cfs @ 12.11 hrs, Volume= 1.612 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.71' @ 12.11 hrs
Flood Elev= 57.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.55'	**30.0" Round 30" ADS** L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 52.55' / 50.73' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=20.16 cfs @ 12.11 hrs HW=54.71' TW=53.21' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 20.16 cfs @ 6.00 fps)

Summary for Pond 15.090: Diversion

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 2.88" for 10-YEAR event
Inflow = 23.72 cfs @ 12.11 hrs, Volume= 1.920 af
Outflow = 23.72 cfs @ 12.11 hrs, Volume= 1.920 af, Atten= 0%, Lag= 0.0 min
Primary = 4.29 cfs @ 12.11 hrs, Volume= 1.307 af
Routed to Pond 15.100 : HS
Secondary = 19.43 cfs @ 12.11 hrs, Volume= 0.613 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.21' @ 12.11 hrs
Flood Elev= 56.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.48'	**12.0" Round 12" ADS to 202A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 50.48' / 50.38' S= 0.0200 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

#2	Secondary	51.45'	**36.0" Round 36" ADS** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 51.45' / 46.00' S= 0.0376 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=4.29 cfs @ 12.11 hrs HW=53.21' TW=51.92' (Dynamic Tailwater)
1=12" ADS to 202A-SF Separator (Inlet Controls 4.29 cfs @ 5.46 fps)

Secondary OutFlow Max=19.40 cfs @ 12.11 hrs HW=53.21' TW=47.38' (Dynamic Tailwater)
2=36" ADS (Inlet Controls 19.40 cfs @ 4.51 fps)

Summary for Pond 15.100: HS

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 1.96" for 10-YEAR event
Inflow = 4.29 cfs @ 12.11 hrs, Volume= 1.307 af
Outflow = 4.29 cfs @ 12.11 hrs, Volume= 1.307 af, Atten= 0%, Lag= 0.0 min
Primary = 4.29 cfs @ 12.11 hrs, Volume= 1.307 af
Routed to Pond P202A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.92' @ 12.11 hrs
Flood Elev= 56.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.13'	**12.0" Round 12" ADS** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 50.13' / 48.00' S= 0.0355 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=4.29 cfs @ 12.11 hrs HW=51.92' TW=47.02' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 4.29 cfs @ 5.47 fps)

Summary for Pond 16.010:

Inflow Area = 0.100 ac, 65.05% Impervious, Inflow Depth = 3.78" for 10-YEAR event
Inflow = 0.44 cfs @ 12.07 hrs, Volume= 0.031 af
Outflow = 0.44 cfs @ 12.07 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.44 cfs @ 12.07 hrs, Volume= 0.031 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.05' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.70'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.70' / 76.50' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.44 cfs @ 12.07 hrs HW=77.05' TW=76.28' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.44 cfs @ 2.70 fps)

Summary for Pond 16.030:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 3.44" for 10-YEAR event
Inflow = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af
Outflow = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
Primary = 1.41 cfs @ 12.07 hrs, Volume= 0.099 af
Routed to Pond 15.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 76.28' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	75.75'	**18.0" Round 18" ADS** L= 130.0' Ke= 0.500 Inlet / Outlet Invert= 75.75' / 68.33' S= 0.0571 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.41 cfs @ 12.07 hrs HW=76.28' TW=68.61' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 1.41 cfs @ 2.49 fps)

Summary for Pond 17.010:

Inflow Area = 0.063 ac, 87.39% Impervious, Inflow Depth = 4.32" for 10-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.47' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.19' / 64.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=65.47' TW=64.59' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.30 cfs @ 2.49 fps)

Summary for Pond 18.010:

Inflow Area = 2.365 ac, 12.80% Impervious, Inflow Depth = 2.54" for 10-YEAR event
Inflow = 6.50 cfs @ 12.12 hrs, Volume= 0.501 af
Outflow = 6.50 cfs @ 12.12 hrs, Volume= 0.501 af, Atten= 0%, Lag= 0.0 min
Primary = 6.50 cfs @ 12.12 hrs, Volume= 0.501 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.43' @ 12.12 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.57'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.57' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=6.58 cfs @ 12.12 hrs HW=59.42' TW=59.22' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 6.58 cfs @ 2.82 fps)

Summary for Pond 19.010:

Inflow Area = 0.215 ac, 39.41% Impervious, Inflow Depth = 3.08" for 10-YEAR event
Inflow = 0.68 cfs @ 12.14 hrs, Volume= 0.055 af
Outflow = 0.68 cfs @ 12.14 hrs, Volume= 0.055 af, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.14 hrs, Volume= 0.055 af
Routed to Pond 19.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 65.45' @ 12.14 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.01' / 64.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.68 cfs @ 12.14 hrs HW=65.45' TW=64.70' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.68 cfs @ 2.96 fps)

Summary for Pond 19.020:

Inflow Area = 0.244 ac, 46.63% Impervious, Inflow Depth = 3.27" for 10-YEAR event
Inflow = 0.79 cfs @ 12.12 hrs, Volume= 0.067 af
Outflow = 0.79 cfs @ 12.12 hrs, Volume= 0.067 af, Atten= 0%, Lag= 0.0 min
Primary = 0.79 cfs @ 12.12 hrs, Volume= 0.067 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.70' @ 12.12 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.31'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 64.31' / 60.31' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.79 cfs @ 12.12 hrs HW=64.70' TW=60.79' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.79 cfs @ 2.13 fps)

Summary for Pond 19.030:

Inflow Area = 0.790 ac, 43.90% Impervious, Inflow Depth = 3.26" for 10-YEAR event
Inflow = 2.49 cfs @ 12.13 hrs, Volume= 0.215 af
Outflow = 2.49 cfs @ 12.13 hrs, Volume= 0.215 af, Atten= 0%, Lag= 0.0 min
Primary = 2.49 cfs @ 12.13 hrs, Volume= 0.215 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.79' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.06'	**18.0" Round 18" ADS** L= 32.0' Ke= 0.500 Inlet / Outlet Invert= 60.06' / 59.42' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.49 cfs @ 12.13 hrs HW=60.79' TW=56.52' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 2.49 cfs @ 2.91 fps)

Summary for Pond 20.010:

Inflow Area = 0.486 ac, 35.64% Impervious, Inflow Depth = 3.08" for 10-YEAR event
Inflow = 1.50 cfs @ 12.15 hrs, Volume= 0.125 af
Outflow = 1.50 cfs @ 12.15 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
Primary = 1.50 cfs @ 12.15 hrs, Volume= 0.125 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.73' @ 12.15 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.01' / 60.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.50 cfs @ 12.15 hrs HW=61.72' TW=60.79' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 1.50 cfs @ 3.49 fps)

Summary for Pond 21.010:

Inflow Area = 0.152 ac, 29.75% Impervious, Inflow Depth = 2.90" for 10-YEAR event
Inflow = 0.46 cfs @ 12.13 hrs, Volume= 0.037 af
Outflow = 0.46 cfs @ 12.13 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.46 cfs @ 12.13 hrs, Volume= 0.037 af
Routed to Pond 21.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.00' @ 12.13 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	67.65'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 67.65' / 67.45' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.46 cfs @ 12.13 hrs HW=68.00' TW=67.22' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.46 cfs @ 2.72 fps)

Summary for Pond 21.020:

Inflow Area = 0.176 ac, 39.32% Impervious, Inflow Depth = 3.14" for 10-YEAR event
Inflow = 0.55 cfs @ 12.12 hrs, Volume= 0.046 af
Outflow = 0.55 cfs @ 12.12 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.12 hrs, Volume= 0.046 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.23' @ 12.12 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.90'	**18.0" Round 18" ADS** L= 146.0' Ke= 0.500 Inlet / Outlet Invert= 66.90' / 58.60' S= 0.0568 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.55 cfs @ 12.12 hrs HW=67.23' TW=58.89' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.55 cfs @ 1.94 fps)

Summary for Pond 21.030:

Inflow Area = 1.256 ac, 31.78% Impervious, Inflow Depth = 2.95" for 10-YEAR event
Inflow = 3.55 cfs @ 12.13 hrs, Volume= 0.309 af
Outflow = 3.55 cfs @ 12.13 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
Primary = 3.55 cfs @ 12.13 hrs, Volume= 0.309 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 58.90' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.10'	**24.0" Round 24" ADS** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 58.10' / 52.25' S= 0.0340 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=3.54 cfs @ 12.13 hrs HW=58.90' TW=53.18' (Dynamic Tailwater)
↑**1=24" ADS** (Inlet Controls 3.54 cfs @ 3.04 fps)

Summary for Pond 22.010:

Inflow Area = 1.633 ac, 5.30% Impervious, Inflow Depth = 2.37" for 10-YEAR event
Inflow = 4.02 cfs @ 12.13 hrs, Volume= 0.322 af
Outflow = 4.02 cfs @ 12.13 hrs, Volume= 0.322 af, Atten= 0%, Lag= 0.0 min
Primary = 4.02 cfs @ 12.13 hrs, Volume= 0.322 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.97' @ 12.13 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.01'	**24.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.01' / 57.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.01 cfs @ 12.13 hrs HW=58.96' TW=58.19' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 4.01 cfs @ 3.97 fps)

Summary for Pond 23.010:

Inflow Area = 1.343 ac, 48.23% Impervious, Inflow Depth = 3.37" for 10-YEAR event
Inflow = 5.05 cfs @ 12.10 hrs, Volume= 0.378 af
Outflow = 5.05 cfs @ 12.10 hrs, Volume= 0.378 af, Atten= 0%, Lag= 0.0 min
Primary = 5.05 cfs @ 12.10 hrs, Volume= 0.378 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.07' @ 12.12 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.77'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.77' / 58.57' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=4.82 cfs @ 12.10 hrs HW=60.06' TW=59.78' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 4.82 cfs @ 3.21 fps)

Summary for Pond 24.010:

Inflow Area = 0.498 ac, 32.59% Impervious, Inflow Depth = 2.99" for 10-YEAR event
Inflow = 1.47 cfs @ 12.16 hrs, Volume= 0.124 af
Outflow = 1.47 cfs @ 12.16 hrs, Volume= 0.124 af, Atten= 0%, Lag= 0.0 min
Primary = 1.47 cfs @ 12.16 hrs, Volume= 0.124 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 60.66' @ 12.16 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 60.00' / 59.70' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.47 cfs @ 12.16 hrs HW=60.65' TW=59.68' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 1.47 cfs @ 3.82 fps)

Summary for Pond 25.010:

Inflow Area = 0.111 ac,100.00% Impervious, Inflow Depth = 4.66" for 10-YEAR event
Inflow = 0.55 cfs @ 12.07 hrs, Volume= 0.043 af
Outflow = 0.55 cfs @ 12.07 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.07 hrs, Volume= 0.043 af
Routed to Pond 25.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.30' @ 12.07 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.90'	**12.0" Round 12" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 59.90' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.07 hrs HW=60.30' TW=59.95' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.55 cfs @ 2.80 fps)

Summary for Pond 25.020:

Inflow Area = 1.081 ac, 30.56% Impervious, Inflow Depth = 2.92" for 10-YEAR event
Inflow = 3.00 cfs @ 12.14 hrs, Volume= 0.263 af
Outflow = 3.00 cfs @ 12.14 hrs, Volume= 0.263 af, Atten= 0%, Lag= 0.0 min
Primary = 3.00 cfs @ 12.14 hrs, Volume= 0.263 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.03' @ 12.14 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**18.0" Round 18" ADS** L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 58.60' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.00 cfs @ 12.14 hrs HW=60.03' TW=58.90' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 3.00 cfs @ 3.07 fps)

Summary for Pond 26.010:

Inflow Area = 0.185 ac, 36.90% Impervious, Inflow Depth = 3.08" for 10-YEAR event
Inflow = 0.62 cfs @ 12.12 hrs, Volume= 0.048 af
Outflow = 0.62 cfs @ 12.12 hrs, Volume= 0.048 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.12 hrs, Volume= 0.048 af
Routed to Pond 26.015 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.61' @ 12.12 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.19' / 60.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.62 cfs @ 12.12 hrs HW=61.61' TW=61.10' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.62 cfs @ 2.90 fps)

Summary for Pond 26.015:

Inflow Area = 0.196 ac, 40.42% Impervious, Inflow Depth = 3.17" for 10-YEAR event
Inflow = 0.66 cfs @ 12.11 hrs, Volume= 0.052 af
Outflow = 0.66 cfs @ 12.11 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min
Primary = 0.66 cfs @ 12.11 hrs, Volume= 0.052 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.10' @ 12.12 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.74'	**18.0" Round 18" ADS** L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 60.74' / 59.25' S= 0.0080 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.66 cfs @ 12.11 hrs HW=61.10' TW=59.69' (Dynamic Tailwater)
↑**1=18" ADS** (Outlet Controls 0.66 cfs @ 3.01 fps)

Summary for Pond 26.020:

Inflow Area = 0.739 ac, 38.72% Impervious, Inflow Depth = 3.14" for 10-YEAR event
Inflow = 2.26 cfs @ 12.13 hrs, Volume= 0.193 af
Outflow = 2.26 cfs @ 12.13 hrs, Volume= 0.193 af, Atten= 0%, Lag= 0.0 min
Primary = 2.26 cfs @ 12.13 hrs, Volume= 0.193 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.69' @ 12.13 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.00'	**18.0" Round 18" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 59.00' / 57.65' S= 0.0090 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.26 cfs @ 12.13 hrs HW=59.69' TW=58.40' (Dynamic Tailwater)
↑**1=18" ADS** (Outlet Controls 2.26 cfs @ 4.15 fps)

Summary for Pond 26.030:

Inflow Area = 1.371 ac, 40.34% Impervious, Inflow Depth = 3.17" for 10-YEAR event
Inflow = 4.38 cfs @ 12.11 hrs, Volume= 0.362 af
Outflow = 4.38 cfs @ 12.11 hrs, Volume= 0.362 af, Atten= 0%, Lag= 0.0 min
Primary = 4.38 cfs @ 12.11 hrs, Volume= 0.362 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 58.42' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**18.0" Round 18" ADS** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.75' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.37 cfs @ 12.11 hrs HW=58.42' TW=57.14' (Dynamic Tailwater)
↑**1=18" ADS** (Barrel Controls 4.37 cfs @ 4.84 fps)

Summary for Pond 26.040:

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 3.20" for 10-YEAR event
Inflow = 7.77 cfs @ 12.12 hrs, Volume= 0.645 af
Outflow = 7.77 cfs @ 12.12 hrs, Volume= 0.645 af, Atten= 0%, Lag= 0.0 min
Primary = 7.77 cfs @ 12.12 hrs, Volume= 0.645 af
Routed to Pond 26.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.14' @ 12.12 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.75'	**24.0" Round 24" ADS** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 55.75' / 54.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.75 cfs @ 12.12 hrs HW=57.14' TW=56.28' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 7.75 cfs @ 4.67 fps)

Summary for Pond 26.050: Diversion

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 3.20" for 10-YEAR event
Inflow = 7.77 cfs @ 12.12 hrs, Volume= 0.645 af
Outflow = 7.77 cfs @ 12.12 hrs, Volume= 0.645 af, Atten= 0%, Lag= 0.0 min
Primary = 1.60 cfs @ 12.11 hrs, Volume= 0.457 af
Routed to Pond 26.060 : HS
Secondary = 6.18 cfs @ 12.12 hrs, Volume= 0.187 af
Routed to Pond P204A-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.29' @ 12.12 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	**8.0" Round 8" ADS to P204A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 54.50' / 54.40' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf
#2	Secondary	55.20'	**24.0" Round 24" ADS** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 55.20' / 52.00' S= 0.0457 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.59 cfs @ 12.11 hrs HW=56.28' TW=55.38' (Dynamic Tailwater)
↑**1=8" ADS to P204A-SF Separator** (Inlet Controls 1.59 cfs @ 4.57 fps)

Secondary OutFlow Max=6.17 cfs @ 12.12 hrs HW=56.28' TW=47.57' (Dynamic Tailwater)
↑**2=24" ADS** (Inlet Controls 6.17 cfs @ 3.55 fps)

Summary for Pond 26.060: HS

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 2.27" for 10-YEAR event
Inflow = 1.60 cfs @ 12.11 hrs, Volume= 0.457 af
Outflow = 1.60 cfs @ 12.11 hrs, Volume= 0.457 af, Atten= 0%, Lag= 0.0 min
Primary = 1.60 cfs @ 12.11 hrs, Volume= 0.457 af
Routed to Pond P204A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.38' @ 12.11 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.15'	**8.0" Round 8" ADS** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 54.15' / 52.00' S= 0.0244 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf

Primary OutFlow Max=1.60 cfs @ 12.11 hrs HW=55.38' TW=51.29' (Dynamic Tailwater)
1=8" ADS (Inlet Controls 1.60 cfs @ 4.57 fps)

Summary for Pond 27.010:

Inflow Area = 0.524 ac, 30.28% Impervious, Inflow Depth = 2.90" for 10-YEAR event
Inflow = 1.69 cfs @ 12.11 hrs, Volume= 0.127 af
Outflow = 1.69 cfs @ 12.11 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 1.69 cfs @ 12.11 hrs, Volume= 0.127 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.34' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.63'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.63' / 58.15' S= 0.0240 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.69 cfs @ 12.11 hrs HW=59.34' TW=58.42' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 1.69 cfs @ 2.86 fps)

Summary for Pond 28.010:

Inflow Area = 0.462 ac, 35.44% Impervious, Inflow Depth = 3.08" for 10-YEAR event
Inflow = 1.43 cfs @ 12.15 hrs, Volume= 0.119 af
Outflow = 1.43 cfs @ 12.15 hrs, Volume= 0.119 af, Atten= 0%, Lag= 0.0 min
Primary = 1.43 cfs @ 12.15 hrs, Volume= 0.119 af
Routed to Pond 28.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.81' @ 12.15 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.12'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.12' / 65.92' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.43 cfs @ 12.15 hrs HW=66.81' TW=65.99' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 1.43 cfs @ 3.45 fps)

Summary for Pond 28.020:

Inflow Area = 0.503 ac, 40.68% Impervious, Inflow Depth = 3.21" for 10-YEAR event
Inflow = 1.57 cfs @ 12.14 hrs, Volume= 0.135 af
Outflow = 1.57 cfs @ 12.14 hrs, Volume= 0.135 af, Atten= 0%, Lag= 0.0 min
Primary = 1.57 cfs @ 12.14 hrs, Volume= 0.135 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.99' @ 12.14 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.42'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 65.42' / 61.43' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.57 cfs @ 12.14 hrs HW=65.99' TW=62.05' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.57 cfs @ 2.56 fps)

Summary for Pond 28.030:

Inflow Area = 1.049 ac, 42.18% Impervious, Inflow Depth = 3.24" for 10-YEAR event
Inflow = 3.41 cfs @ 12.12 hrs, Volume= 0.283 af
Outflow = 3.41 cfs @ 12.12 hrs, Volume= 0.283 af, Atten= 0%, Lag= 0.0 min
Primary = 3.41 cfs @ 12.12 hrs, Volume= 0.283 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.05' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.18'	**18.0" Round 18" ADS** L= 138.0' Ke= 0.500 Inlet / Outlet Invert= 61.18' / 56.75' S= 0.0321 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.41 cfs @ 12.12 hrs HW=62.05' TW=57.14' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.41 cfs @ 3.18 fps)

Summary for Pond 29.010:

Inflow Area = 0.486 ac, 36.65% Impervious, Inflow Depth = 3.08" for 10-YEAR event
Inflow = 1.61 cfs @ 12.12 hrs, Volume= 0.125 af
Outflow = 1.61 cfs @ 12.12 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
Primary = 1.61 cfs @ 12.12 hrs, Volume= 0.125 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.88' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	62.13'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 62.13' / 61.93' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.61 cfs @ 12.12 hrs HW=62.88' TW=62.05' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 1.61 cfs @ 3.54 fps)

Summary for Pond P201-DT: DETENTION

Inflow Area = 10.168 ac, 41.40% Impervious, Inflow Depth = 2.19" for 10-YEAR event
Inflow = 32.00 cfs @ 12.10 hrs, Volume= 1.857 af
Outflow = 9.42 cfs @ 12.50 hrs, Volume= 1.857 af, Atten= 71%, Lag= 23.9 min
Discarded = 0.13 cfs @ 12.50 hrs, Volume= 0.234 af
Primary = 9.29 cfs @ 12.50 hrs, Volume= 1.623 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 49.78' @ 12.50 hrs Surf.Area= 21,281 sf Storage= 34,716 cf
Flood Elev= 52.00' Surf.Area= 26,017 sf Storage= 87,081 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 223.1 min (1,009.5 - 786.5)

Volume	Invert	Avail.Storage	Storage Description
#1	48.00'	87,081 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
48.00	17,686	0	0
49.00	19,670	18,678	18,678
50.00	21,727	20,699	39,377
51.00	23,832	22,780	62,156
52.00	26,017	24,925	87,081

Device	Routing	Invert	Outlet Devices
#1	Discarded	48.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**18.0" Round 18" ADS x2 X 2.00** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Device 2	47.00'	**3.0" Vert. 3" Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 2	49.00'	**48.0" W x 24.0" H Vert. 2'H X 4'W Opening with trash rack** C= 0.600 Limited to weir flow at low heads
#5	Primary	51.00'	**12.0' long x 15.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.13 cfs @ 12.50 hrs HW=49.78' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.13 cfs)

Primary OutFlow Max=9.29 cfs @ 12.50 hrs HW=49.78' TW=0.00' (Dynamic Tailwater)
└**2=18" ADS x2** (Passes 9.29 cfs of 27.09 cfs potential flow)
  └**3=3" Orifice** (Orifice Controls 0.39 cfs @ 7.85 fps)
  └**4=2'H X 4'W Opening with trash rack** (Orifice Controls 8.90 cfs @ 2.84 fps)
└**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond P201-SF: FILTER (LINED)

Inflow Area = 9.349 ac, 38.64% Impervious, Inflow Depth = 2.50" for 10-YEAR event
Inflow = 11.48 cfs @ 12.09 hrs, Volume= 1.950 af
Outflow = 10.68 cfs @ 12.14 hrs, Volume= 1.950 af, Atten= 7%, Lag= 3.6 min
Primary = 10.21 cfs @ 12.14 hrs, Volume= 1.108 af
Routed to Pond P201-DT : DETENTION
Secondary = 0.47 cfs @ 12.14 hrs, Volume= 0.842 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.12' @ 12.14 hrs Surf.Area= 14,100 sf Storage= 15,426 cf
Flood Elev= 52.00' Surf.Area= 14,955 sf Storage= 22,465 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 150.3 min (981.0 - 830.7)

Volume	Invert	Avail.Storage	Storage Description
#1	46.50'	7,508 cf	**Media (Prismatic)** Listed below (Recalc) 22,750 cf Overall x 33.0% Voids
#2	50.00'	14,958 cf	**Sand Filer Ponding (Prismatic)** Listed below (Recalc)
		22,465 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.50	6,500	0	0
50.00	6,500	22,750	22,750

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	6,500	0	0
51.00	7,480	6,990	6,990
52.00	8,455	7,968	14,958

Device	Routing	Invert	Outlet Devices
#1	Secondary	46.25'	**4.0" Round 4" Underdrain** L= 142.0' Ke= 0.500 Inlet / Outlet Invert= 46.25' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	46.50'	**8.270 in/hr Exfiltration over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=10.21 cfs @ 12.14 hrs HW=51.12' TW=49.13' (Dynamic Tailwater)
└**3=Overflow weir** (Weir Controls 10.21 cfs @ 2.11 fps)

Secondary OutFlow Max=0.47 cfs @ 12.14 hrs HW=51.12' TW=0.00' (Dynamic Tailwater)
└**1=4" Underdrain** (Barrel Controls 0.47 cfs @ 5.37 fps)
└**2=Exfiltration** (Passes 0.47 cfs of 2.70 cfs potential flow)

Summary for Pond P202-DT: DETENTION (LINED)

Inflow Area = 1.683 ac, 37.75% Impervious, Inflow Depth = 7.51" for 10-YEAR event
Inflow = 25.28 cfs @ 12.11 hrs, Volume= 1.053 af
Outflow = 9.58 cfs @ 12.37 hrs, Volume= 1.053 af, Atten= 62%, Lag= 15.2 min
Primary = 9.58 cfs @ 12.37 hrs, Volume= 1.053 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 48.00' @ 12.37 hrs Surf.Area= 13,073 sf Storage= 22,427 cf
Flood Elev= 50.00' Surf.Area= 17,157 sf Storage= 52,695 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 385.8 min (1,156.6 - 770.7)

Volume	Invert	Avail.Storage	Storage Description
#1	46.00'	52,695 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	9,382	0	0
48.00	13,078	22,460	22,460
50.00	17,157	30,235	52,695

Device	Routing	Invert	Outlet Devices
#1	Primary	45.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 45.50' / 45.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	45.50'	**2.3" Vert. 2.3" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	47.25'	**18.0" x 18.0" Horiz. 18" Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	48.50'	**90.0 deg x 4.5' long x 1.50' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=9.58 cfs @ 12.37 hrs HW=48.00' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS X 2** (Passes 9.58 cfs of 10.69 cfs potential flow)
  - **2=2.3" Orifice** (Orifice Controls 0.22 cfs @ 7.46 fps)
  - **3=18" Grate** (Orifice Controls 9.37 cfs @ 4.16 fps)
- **4=Overflow Weir** (Controls 0.00 cfs)

Summary for Pond P202A-SF: FILTER (LINED)

Inflow Area = 10.304 ac, 28.69% Impervious, Inflow Depth = 2.19" for 10-YEAR event
Inflow = 12.01 cfs @ 12.10 hrs, Volume= 1.880 af
Outflow = 9.19 cfs @ 12.20 hrs, Volume= 1.858 af, Atten= 23%, Lag= 5.9 min
Primary = 9.19 cfs @ 12.20 hrs, Volume= 1.858 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.14' @ 12.20 hrs Surf.Area= 12,207 sf Storage= 12,507 cf
Flood Elev= 48.00' Surf.Area= 12,965 sf Storage= 18,509 cf

Plug-Flow detention time= 52.7 min calculated for 1.858 af (99% of inflow)
Center-of-Mass det. time= 46.0 min (892.3 - 846.3)

Volume	Invert	Avail.Storage	Storage Description
#1	43.00'	5,544 cf	**Media (Prismatic)** Listed below (Recalc) 16,800 cf Overall x 33.0% Voids
#2	46.00'	12,965 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,509 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
43.00	5,600	0	0
46.00	5,600	16,800	16,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	5,600	0	0
48.00	7,365	12,965	12,965

Device	Routing	Invert	Outlet Devices
#1	Primary	43.50'	**18.0" Round 18" ADS** L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 43.50' / 43.25' S= 0.0071 '/' Cc= 0.900 n= 0.010, Flow Area= 1.77 sf
#2	Device 1	43.00'	**8.270 in/hr Media Transport over Surface area**
#3	Device 1	46.66'	**24.0" Horiz. 24" Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=9.18 cfs @ 12.20 hrs HW=47.14' TW=0.00' (Dynamic Tailwater)
- **1=18" ADS** (Passes 9.18 cfs of 14.47 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 2.34 cfs)
  - **3=24" Grate** (Weir Controls 6.85 cfs @ 2.27 fps)

Summary for Pond P202B-SF: FILTER (LINED)

Inflow Area = 1.046 ac, 23.10% Impervious, Inflow Depth = 2.81" for 10-YEAR event
Inflow = 3.37 cfs @ 12.10 hrs, Volume= 0.245 af
Outflow = 3.31 cfs @ 12.11 hrs, Volume= 0.245 af, Atten= 2%, Lag= 1.0 min
Primary = 3.31 cfs @ 12.11 hrs, Volume= 0.245 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.87' @ 12.11 hrs Surf.Area= 1,874 sf Storage= 1,324 cf
Flood Elev= 52.00' Surf.Area= 2,701 sf Storage= 3,214 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 27.7 min (851.0 - 823.2)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	513 cf	**Media (Prismatic)** Listed below (Recalc) 1,555 cf Overall x 33.0% Voids
#2	50.00'	2,701 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		3,214 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	622	0	0
50.00	622	1,555	1,555

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	622	0	0
52.00	2,079	2,701	2,701

Device	Routing	Invert	Outlet Devices
#1	Primary	47.25'	**4.0" Round 4" PVC** L= 25.0' Ke= 0.500 Inlet / Outlet Invert= 47.25' / 47.00' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	47.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=3.30 cfs @ 12.11 hrs HW=50.86' TW=47.37' (Dynamic Tailwater)
- **1=4" PVC** (Passes 0.36 cfs of 0.70 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 0.36 cfs)
- **3=Overflow Weir** (Weir Controls 2.95 cfs @ 1.41 fps)

Summary for Pond P203-DT: DETENTION (LINED)

Inflow Area = 8.528 ac, 29.10% Impervious, Inflow Depth = 1.97" for 10-YEAR event
Inflow = 24.12 cfs @ 12.12 hrs, Volume= 1.401 af
Outflow = 14.98 cfs @ 12.27 hrs, Volume= 1.401 af, Atten= 38%, Lag= 8.9 min
Primary = 14.98 cfs @ 12.27 hrs, Volume= 1.401 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.91' @ 12.27 hrs Surf.Area= 12,955 sf Storage= 16,186 cf
Flood Elev= 54.00' Surf.Area= 15,076 sf Storage= 31,412 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 142.4 min (928.4 - 786.0)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	31,412 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	9,373	0	0
52.00	11,214	5,147	5,147
53.00	13,120	12,167	17,314
54.00	15,076	14,098	31,412

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	**12.0" Round 12" ADS** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 50.50' / 50.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	50.50'	**2.4" Vert. 2.4" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	52.35'	**18.0" Horiz. 18" Inlet** C= 0.600 Limited to weir flow at low heads
#4	Primary	52.30'	**90.0 deg x 6.0' long x 1.70' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=14.98 cfs @ 12.27 hrs HW=52.91' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS** (Inlet Controls 5.23 cfs @ 6.66 fps)
  - **2=2.4" Orifice** (Passes < 0.23 cfs potential flow)
  - **3=18" Inlet** (Passes < 6.39 cfs potential flow)
- **4=Overflow Weir** (Weir Controls 9.74 cfs @ 2.40 fps)

Summary for Pond P203-FB: FOREBAY (LINED)

Inflow Area = 0.902 ac, 2.22% Impervious, Inflow Depth = 2.99" for 10-YEAR event
Inflow = 3.27 cfs @ 12.07 hrs, Volume= 0.225 af
Outflow = 2.78 cfs @ 12.08 hrs, Volume= 0.206 af, Atten= 15%, Lag= 0.6 min
Primary = 2.78 cfs @ 12.08 hrs, Volume= 0.206 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.10' @ 12.16 hrs Surf.Area= 908 sf Storage= 1,206 cf
Flood Elev= 54.00' Surf.Area= 1,220 sf Storage= 2,160 cf

Plug-Flow detention time= 65.6 min calculated for 0.206 af (92% of inflow)
Center-of-Mass det. time= 23.0 min (839.2 - 816.2)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	2,160 cf	**Sediment Forebay (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	200	0	0
52.00	578	389	389
53.00	872	725	1,114
54.00	1,220	1,046	2,160

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	**90.0 deg x 15.0' long x 1.35' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 12.08 hrs HW=53.03' TW=53.04' (Dynamic Tailwater)
- **1=Overflow weir** (Controls 0.00 cfs)

Summary for Pond P203-SF: FILTER (LINED)

Inflow Area = 6.925 ac, 25.88% Impervious, Inflow Depth = 2.41" for 10-YEAR event
Inflow = 11.71 cfs @ 12.09 hrs, Volume= 1.394 af
Outflow = 9.88 cfs @ 12.14 hrs, Volume= 1.394 af, Atten= 16%, Lag= 3.4 min
Primary = 9.39 cfs @ 12.14 hrs, Volume= 0.696 af
Routed to Pond P203-DT : DETENTION (LINED)
Secondary = 0.50 cfs @ 12.15 hrs, Volume= 0.698 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.10' @ 12.15 hrs Surf.Area= 12,700 sf Storage= 11,366 cf
Flood Elev= 54.00' Surf.Area= 14,437 sf Storage= 18,797 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 117.9 min (957.0 - 839.1)

Volume	Invert	Avail.Storage	Storage Description
#1	49.50'	4,388 cf	**Media (Prismatic)** Listed below (Recalc) 13,298 cf Overall x 33.0% Voids
#2	52.00'	14,409 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,797 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
49.50	5,319	0	0
52.00	5,319	13,298	13,298

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,319	0	0
53.00	7,190	6,255	6,255
54.00	9,118	8,154	14,409

Device	Routing	Invert	Outlet Devices
#1	Secondary	49.25'	**4.0" Round 4" PVC** L= 87.0' Ke= 0.500 Inlet / Outlet Invert= 49.25' / 48.50' S= 0.0086 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	49.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	52.66'	**90.0 deg x 10.0' long x 1.33' rise Sharp-Crested Vee/Trap Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=9.30 cfs @ 12.14 hrs HW=53.10' TW=52.73' (Dynamic Tailwater)
└**3=Sharp-Crested Vee/Trap Weir** (Weir Controls 9.30 cfs @ 2.03 fps)

Secondary OutFlow Max=0.50 cfs @ 12.15 hrs HW=53.10' TW=0.00' (Dynamic Tailwater)
└**1=4" PVC** (Barrel Controls 0.50 cfs @ 5.69 fps)
└**2=Media Transport** (Passes 0.50 cfs of 2.43 cfs potential flow)

Summary for Pond P204A-DT: DETENTION

Inflow Area = 6.595 ac, 33.52% Impervious, Inflow Depth = 1.45" for 10-YEAR event
Inflow = 18.37 cfs @ 12.14 hrs, Volume= 0.799 af
Outflow = 5.74 cfs @ 12.49 hrs, Volume= 0.799 af, Atten= 69%, Lag= 21.0 min
Discarded = 0.10 cfs @ 12.49 hrs, Volume= 0.132 af
Primary = 5.65 cfs @ 12.49 hrs, Volume= 0.667 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 48.28' @ 12.49 hrs Surf.Area= 15,405 sf Storage= 17,393 cf
Flood Elev= 50.00' Surf.Area= 20,313 sf Storage= 48,163 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 151.2 min (911.8 - 760.5)

Volume	Invert	Avail.Storage	Storage Description
#1	47.00'	48,163 cf	**Detention Area (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.00	11,852	0	0
48.00	14,616	13,234	13,234
50.00	20,313	34,929	48,163

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#3	Device 2	47.50'	**30.0" W x 12.0" H Vert. 30"W X 12"H GRATE** C= 0.600 Limited to weir flow at low heads
#4	Device 2	46.50'	**2.1" Vert. 2.1" ORIFICE** C= 0.600 Limited to weir flow at low heads
#5	Primary	49.25'	**10.0' long x 15.0' breadth Riprap Spillway** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.10 cfs @ 12.49 hrs HW=48.28' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.10 cfs)

Primary OutFlow Max=5.65 cfs @ 12.49 hrs HW=48.28' TW=0.00' (Dynamic Tailwater)
└**2=12" ADS X 2** (Passes 5.65 cfs of 8.55 cfs potential flow)
  └**3=30"W X 12"H GRATE** (Orifice Controls 5.50 cfs @ 2.83 fps)
  └**4=2.1" ORIFICE** (Orifice Controls 0.15 cfs @ 6.26 fps)
└**5=Riprap Spillway** (Controls 0.00 cfs)

Summary for Pond P204A-SF: FILTER (LINED)

Inflow Area = 3.971 ac, 35.06% Impervious, Inflow Depth = 2.48" for 10-YEAR event
Inflow = 6.31 cfs @ 12.12 hrs, Volume= 0.820 af
Outflow = 6.01 cfs @ 12.15 hrs, Volume= 0.820 af, Atten= 5%, Lag= 2.1 min
Primary = 5.38 cfs @ 12.15 hrs, Volume= 0.266 af
  Routed to Pond P204A-DT : DETENTION
Secondary = 0.63 cfs @ 12.15 hrs, Volume= 0.554 af
  Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.30' @ 12.15 hrs Surf.Area= 5,742 sf Storage= 4,785 cf
Flood Elev= 52.00' Surf.Area= 6,383 sf Storage= 7,262 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 47.0 min (880.1 - 833.1)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	2,475 cf	**Media (Prismatic)** Listed below (Recalc) 7,500 cf Overall x 33.0% Voids
#2	50.50'	4,787 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		7,262 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	2,500	0	0
50.50	2,500	7,500	7,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.50	2,500	0	0
52.00	3,883	4,787	4,787

Device	Routing	Invert	Outlet Devices
#1	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**
#2	Secondary	47.00'	**4.0" Round 4" PVC** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 47.00' / 46.50' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Primary	51.00'	**90.0 deg x 10.0' long x 1.00' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=5.37 cfs @ 12.15 hrs HW=51.30' TW=47.74' (Dynamic Tailwater)
└**3=Overflow weir** (Weir Controls 5.37 cfs @ 1.71 fps)

Secondary OutFlow Max=0.63 cfs @ 12.15 hrs HW=51.30' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Barrel Controls 0.63 cfs @ 7.22 fps)
└**1=Media Transport** (Passes 0.63 cfs of 1.10 cfs potential flow)

Summary for Pond P204B-SF: FILTER (LINED)

Inflow Area = 1.883 ac, 19.82% Impervious, Inflow Depth = 2.72" for 10-YEAR event
Inflow = 5.52 cfs @ 12.12 hrs, Volume= 0.426 af
Outflow = 5.05 cfs @ 12.16 hrs, Volume= 0.426 af, Atten= 8%, Lag= 2.5 min
Primary = 4.54 cfs @ 12.16 hrs, Volume= 0.125 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.51 cfs @ 12.16 hrs, Volume= 0.301 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.93' @ 12.16 hrs Surf.Area= 4,031 sf Storage= 2,993 cf
Flood Elev= 52.00' Surf.Area= 5,555 sf Storage= 6,669 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 33.3 min (860.9 - 827.6)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	1,114 cf	**Media (Prismatic)** Listed below (Recalc) 3,375 cf Overall x 33.0% Voids
#2	50.00'	5,555 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		6,669 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	1,350	0	0
50.00	1,350	3,375	3,375

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	1,350	0	0
52.00	4,205	5,555	5,555

Device	Routing	Invert	Outlet Devices
#1	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)
#2	Secondary	46.00'	**4.0" Round 4" PVC** L= 113.0' Ke= 0.500 Inlet / Outlet Invert= 46.00' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**

Primary OutFlow Max=4.54 cfs @ 12.16 hrs HW=50.93' TW=47.78' (Dynamic Tailwater)
└**1=Overflow weir** (Weir Controls 4.54 cfs @ 1.62 fps)

Secondary OutFlow Max=0.51 cfs @ 12.16 hrs HW=50.93' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Barrel Controls 0.51 cfs @ 5.84 fps)
└**3=Media Transport** (Passes 0.51 cfs of 0.77 cfs potential flow)

Summary for Link DP1-PR: Wetlands

Inflow Area = 26.211 ac, 29.76% Impervious, Inflow Depth = 3.07" for 10-YEAR event
Inflow = 36.63 cfs @ 12.27 hrs, Volume= 6.715 af
Primary = 36.63 cfs @ 12.27 hrs, Volume= 6.715 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-PR: Western Abutters

Inflow Area = 21.950 ac, 27.83% Impervious, Inflow Depth = 2.48" for 10-YEAR event
Inflow = 27.01 cfs @ 12.29 hrs, Volume= 4.545 af
Primary = 27.01 cfs @ 12.29 hrs, Volume= 4.545 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Subcatchment 205-U1:

Runoff = 21.77 cfs @ 12.09 hrs, Volume= 1.568 af, Depth= 5.59"
Routed to Link DP2-PR : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	54,855	72	Woods/grass comb., Good, HSG C
*	9,000	98	Residence
*	4,338	98	Driveway
	78,486	74	>75% Grass cover, Good, HSG C
	146,679	75	Weighted Average
	133,341	73	90.91% Pervious Area
	13,338	98	9.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.7	198	0.0750	4.41		**Shallow Concentrated Flow, Grass/Woods**
					Unpaved Kv= 16.1 fps
6.2	298	Total			

Summary for Subcatchment 206-U1:

Runoff = 17.23 cfs @ 12.23 hrs, Volume= 1.685 af, Depth= 5.59"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	83,026	72	Woods/grass comb., Good, HSG C
*	2,024	98	Treatment Plant
*	11,323	98	Pavement
	61,304	74	>75% Grass cover, Good, HSG C
	157,677	75	Weighted Average
	144,330	73	91.54% Pervious Area
	13,347	98	8.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	100	0.0900	0.14		**Sheet Flow, Woods**
					Woods: Light underbrush n= 0.400 P2= 3.30"
4.9	260	0.0030	0.88		**Shallow Concentrated Flow, Woods**
					Unpaved Kv= 16.1 fps
16.5	360	Total			

Summary for Subcatchment 207:

Runoff = 24.26 cfs @ 12.13 hrs, Volume= 1.970 af, Depth= 6.07"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	15,600	98	Residence
*	19,325	98	Driveway
	134,754	74	>75% Grass cover, Good, HSG C
	169,679	79	Weighted Average
	134,754	74	79.42% Pervious Area
	34,925	98	20.58% Impervious Area

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

Summary for Subcatchment P1.010:

Runoff = 0.16 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 8.36"
Routed to Pond 1.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	808	98	Pavement
	808	98	100.00% Impervious Area

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

Summary for Subcatchment P1.020:

Runoff = 1.18 cfs @ 12.07 hrs, Volume= 0.084 af, Depth= 6.67"
Routed to Pond 1.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,633	98	Pavement
	3,965	74	>75% Grass cover, Good, HSG C
	6,598	84	Weighted Average
	3,965	74	60.09% Pervious Area
	2,633	98	39.91% Impervious Area

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

Summary for Subcatchment P1.030:

Runoff = 1.15 cfs @ 12.07 hrs, Volume= 0.082 af, Depth= 6.67"
Routed to Pond 1.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.040:

Runoff = 1.15 cfs @ 12.07 hrs, Volume= 0.082 af, Depth= 6.67"
Routed to Pond 1.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.050:

Runoff = 1.15 cfs @ 12.07 hrs, Volume= 0.082 af, Depth= 6.67"
Routed to Pond 1.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	3,814	74	>75% Grass cover, Good, HSG C
	6,422	84	Weighted Average
	3,814	74	59.39% Pervious Area
	2,608	98	40.61% Impervious Area

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

Summary for Subcatchment P1.070:

Runoff = 1.02 cfs @ 12.07 hrs, Volume= 0.075 af, Depth= 7.28"
Routed to Pond 1.070 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,440	98	Pavement
	2,001	74	>75% Grass cover, Good, HSG C
*	948	98	Pool and apron
	5,389	89	Weighted Average
	2,001	74	37.13% Pervious Area
	3,388	98	62.87% Impervious Area

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

Summary for Subcatchment P1.080:

Runoff = 7.25 cfs @ 12.10 hrs, Volume= 0.549 af, Depth= 6.43"
Routed to Pond 1.080 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,608	98	Pavement
*	2,500	98	Clubhouse
*	5,400	98	Residence
*	3,391	98	Driveway
	29,662	74	>75% Grass cover, Good, HSG C
*	1,025	98	Pool and apron
	44,586	82	Weighted Average
	29,662	74	66.53% Pervious Area
	14,924	98	33.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	100	0.1000	0.33		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	80	0.1000	5.09		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.0	380	Total			

Summary for Subcatchment P1.090:

Runoff = 11.38 cfs @ 12.13 hrs, Volume= 0.921 af, Depth= 6.07"
Routed to Pond 1.090 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
*	10,800	98	Residence
*	4,146	98	Driveway
	61,809	74	>75% Grass cover, Good, HSG C
	79,355	79	Weighted Average
	61,809	74	77.89% Pervious Area
	17,546	98	22.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
1.1	328	0.1000	5.09		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
9.4	628	Total			

Summary for Subcatchment P1.100:

Runoff = 12.08 cfs @ 12.14 hrs, Volume= 1.022 af, Depth= 6.19"
Routed to Pond 1.100 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	9,453	98	Pavement
*	7,847	98	Tennis
*	3,600	98	Residence
*	1,838	98	Driveway
	63,582	74	>75% Grass cover, Good, HSG C
	86,320	80	Weighted Average
	63,582	74	73.66% Pervious Area
	22,738	98	26.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	100	0.0300	0.20		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
1.1	267	0.0660	4.14		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.4	238	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
10.7	605	Total			

Summary for Subcatchment P10.010:

Runoff = 3.41 cfs @ 12.07 hrs, Volume= 0.251 af, Depth= 7.40"
Routed to Pond 10.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,945	98	Driveway
	6,140	74	>75% Grass cover, Good, HSG C
*	2,450	98	Pavement
*	7,225	98	Assisted Living
	17,760	90	Weighted Average
	6,140	74	34.57% Pervious Area
	11,620	98	65.43% Impervious Area

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

Summary for Subcatchment P11.010:

Runoff = 1.71 cfs @ 12.09 hrs, Volume= 0.127 af, Depth= 6.31"
Routed to Pond 11.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,629	98	Pavement
*	295	98	Driveway
	7,609	74	>75% Grass cover, Good, HSG C
	10,533	81	Weighted Average
	7,609	74	72.24% Pervious Area
	2,924	98	27.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.2	39	0.0600	3.94		**Shallow Concentrated Flow, Lawnd** Unpaved Kv= 16.1 fps
0.2	42	0.0400	4.06		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
6.6	181	Total			

Summary for Subcatchment P12.010:

Runoff = 16.75 cfs @ 12.12 hrs, Volume= 1.335 af, Depth= 6.19"
Routed to Pond 12.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	18,000	98	Residence
*	4,033	98	Driveway
*	4,853	98	Pavement
	85,882	74	>75% Grass cover, Good, HSG C
	112,768	80	Weighted Average
	85,882	74	76.16% Pervious Area
	26,886	98	23.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
2.3	470	0.0440	3.38		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	36	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.8	606	Total			

Summary for Subcatchment P12.020:

Runoff = 0.97 cfs @ 12.07 hrs, Volume= 0.077 af, Depth= 8.36"
Routed to Pond 12.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	4,825	98	Pavement
	4,825	98	100.00% Impervious Area

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

Summary for Subcatchment P12.030:

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 12.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,623	98	Pavement
	2,623	98	100.00% Impervious Area

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

Summary for Subcatchment P12.040:

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 12.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,654	98	Pavement
	2,654	98	100.00% Impervious Area

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

Summary for Subcatchment P13.010:

Runoff = 3.44 cfs @ 12.17 hrs, Volume= 0.308 af, Depth= 6.31"
Routed to Pond 13.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,114	98	Pavement
*	3,600	98	Residence
*	1,390	98	Driveway
	18,432	74	>75% Grass cover, Good, HSG C
	25,536	81	Weighted Average
	18,432	74	72.18% Pervious Area
	7,104	98	27.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.6	69	0.0150	1.97		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.2	145	0.0100	2.03		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
12.6	314	Total			

Summary for Subcatchment P14.010:

Runoff = 2.93 cfs @ 12.07 hrs, Volume= 0.209 af, Depth= 6.79"
Routed to Pond 14.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,511	98	Pavement
*	3,600	98	Residence
*	1,344	98	Driveway
	8,646	74	>75% Grass cover, Good, HSG C
	16,101	85	Weighted Average
	8,646	74	53.70% Pervious Area
	7,455	98	46.30% Impervious Area

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

Summary for Subcatchment P14.020:

Runoff = 1.78 cfs @ 12.07 hrs, Volume= 0.124 af, Depth= 6.19"
Routed to Pond 14.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,521	98	Pavement
	7,989	74	>75% Grass cover, Good, HSG C
	10,510	80	Weighted Average
	7,989	74	76.01% Pervious Area
	2,521	98	23.99% Impervious Area

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

Summary for Subcatchment P14.030:

Runoff = 2.28 cfs @ 12.17 hrs, Volume= 0.204 af, Depth= 6.43"
Routed to Pond 14.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,498	98	Pavement
*	1,800	98	Residence
*	937	98	Driveway
	11,310	74	>75% Grass cover, Good, HSG C
	16,545	82	Weighted Average
	11,310	74	68.36% Pervious Area
	5,235	98	31.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	59	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	132	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
12.3	291	Total			

Summary for Subcatchment P15.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.022 af, Depth= 7.64"
Routed to Pond 15.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	408	74	>75% Grass cover, Good, HSG C
*	1,115	98	Pavement
	1,523	92	Weighted Average
	408	74	26.79% Pervious Area
	1,115	98	73.21% Impervious Area

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

Summary for Subcatchment P15.020:

Runoff = 0.49 cfs @ 12.07 hrs, Volume= 0.035 af, Depth= 6.67"
Routed to Pond 15.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	1,627	74	>75% Grass cover, Good, HSG C
*	1,112	98	Pavement
	2,739	84	Weighted Average
	1,627	74	59.40% Pervious Area
	1,112	98	40.60% Impervious Area

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

Summary for Subcatchment P15.030:

Runoff = 1.15 cfs @ 12.07 hrs, Volume= 0.082 af, Depth= 6.67"
Routed to Pond 16.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	3,799	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
	6,399	84	Weighted Average
	3,799	74	59.37% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P15.050:

Runoff = 0.76 cfs @ 12.07 hrs, Volume= 0.056 af, Depth= 7.40"
Routed to Pond 15.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	1,358	74	>75% Grass cover, Good, HSG C
*	2,627	98	Pavement
	3,985	90	Weighted Average
	1,358	74	34.08% Pervious Area
	2,627	98	65.92% Impervious Area

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

Summary for Subcatchment P15.055:

Runoff = 0.26 cfs @ 12.07 hrs, Volume= 0.021 af, Depth= 8.36"
Routed to Pond 15.055 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P15.060:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 15.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P15.065:

Runoff = 0.26 cfs @ 12.07 hrs, Volume= 0.021 af, Depth= 8.36"
Routed to Pond 15.065 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P16.010:

Runoff = 0.83 cfs @ 12.07 hrs, Volume= 0.061 af, Depth= 7.40"
Routed to Pond 16.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	1,517	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
*	223	98	Driveway
	4,340	90	Weighted Average
	1,517	74	34.95% Pervious Area
	2,823	98	65.05% Impervious Area

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

Summary for Subcatchment P17.010:

Runoff = 0.55 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.00"
Routed to Pond 17.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	346	74	>75% Grass cover, Good, HSG C
*	2,397	98	Pavement
	2,743	95	Weighted Average
	346	74	12.61% Pervious Area
	2,397	98	87.39% Impervious Area

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

Summary for Subcatchment P18.010:

Runoff = 14.77 cfs @ 12.12 hrs, Volume= 1.149 af, Depth= 5.83"
Routed to Pond 18.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,612	98	Assisted Living
*	5,400	98	Residence
*	1,671	98	Driveway
*	2,500	98	Pavement
	89,843	74	>75% Grass cover, Good, HSG C
	103,026	77	Weighted Average
	89,843	74	87.20% Pervious Area
	13,183	98	12.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.5	82	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.3	548	Total			

Summary for Subcatchment P19.010:

Runoff = 1.40 cfs @ 12.14 hrs, Volume= 0.117 af, Depth= 6.55"
Routed to Pond 19.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	672	98	Driveway
*	1,217	98	Pavement
	5,672	74	>75% Grass cover, Good, HSG C
	9,361	83	Weighted Average
	5,672	74	60.59% Pervious Area
	3,689	98	39.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	50	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.0	170	Total			

Summary for Subcatchment P19.020:

Runoff = 0.25 cfs @ 12.07 hrs, Volume= 0.020 af, Depth= 8.36"
Routed to Pond 19.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,266	98	Pavement
	1,266	98	100.00% Impervious Area

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

Summary for Subcatchment P19.030:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 19.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P2.010:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 2.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P20.010:

Runoff = 3.10 cfs @ 12.14 hrs, Volume= 0.265 af, Depth= 6.55"
Routed to Pond 20.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,344	98	Driveway
*	2,600	98	Pavement
	13,626	74	>75% Grass cover, Good, HSG C
	21,170	83	Weighted Average
	13,626	74	64.36% Pervious Area
	7,544	98	35.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.5	94	0.0400	3.22		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.6	104	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
10.7	298	Total			

Summary for Subcatchment P201-U1:

Runoff = 4.03 cfs @ 12.07 hrs, Volume= 0.285 af, Depth= 6.55"
Routed to Pond P201-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	8,455	98	Sand Filter
	14,316	74	>75% Grass cover, Good, HSG C
	22,771	83	Weighted Average
	14,316	74	62.87% Pervious Area
	8,455	98	37.13% Impervious Area

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

Summary for Subcatchment P201-U2:

Runoff = 6.96 cfs @ 12.07 hrs, Volume= 0.521 af, Depth= 7.64"
Routed to Pond P201-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	26,017	98	Basin
	9,639	74	>75% Grass cover, Good, HSG C
	35,656	92	Weighted Average
	9,639	74	27.03% Pervious Area
	26,017	98	72.97% Impervious Area

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

Summary for Subcatchment P202-U1:

Runoff = 7.29 cfs @ 12.09 hrs, Volume= 0.540 af, Depth= 6.19"
Routed to Pond P202B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	7,200	98	Residence
*	2,705	98	Driveway
*	35,036	74	>75% Grass cover, Good, HSG C
*	622	98	Sand Filter
	45,563	80	Weighted Average
	35,036	74	76.90% Pervious Area
	10,527	98	23.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.8	181	0.0550	3.78		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.6	281	Total			

Summary for Subcatchment P202-U2:

Runoff = 4.91 cfs @ 12.10 hrs, Volume= 0.387 af, Depth= 7.28"
Routed to Pond P202-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	10,612	74	>75% Grass cover, Good, HSG C
*	17,157	98	Detention Basin
	27,769	89	Weighted Average
	10,612	74	38.22% Pervious Area
	17,157	98	61.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Lawns**
					Grass: Short n= 0.150 P2= 3.30"
0.4	90	0.0667	4.16		**Shallow Concentrated Flow, Lawnd**
					Unpaved Kv= 16.1 fps
7.1	190	Total			

Summary for Subcatchment P202-U3:

Runoff = 16.18 cfs @ 12.10 hrs, Volume= 1.232 af, Depth= 6.43"
Routed to Pond P202A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	12,758	98	Detention Basin
	66,887	74	>75% Grass cover, Good, HSG C
*	10,800	98	Residence
*	4,079	98	Driveway
*	5,600	98	Sand Filter
	100,124	82	Weighted Average
	66,887	74	66.80% Pervious Area
	33,237	98	33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawns** Grass: Short n= 0.150 P2= 3.30"
1.0	235	0.0638	4.07		**Shallow Concentrated Flow, Lawns** Unpaved Kv= 16.1 fps
7.2	335	Total			

Summary for Subcatchment P203-U1:

Runoff = 11.69 cfs @ 12.08 hrs, Volume= 0.838 af, Depth= 6.19"
Routed to Pond P203-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,577	98	Driveway
*	5,319	98	Sand Filter
	52,895	74	>75% Grass cover, Good, HSG C
	70,791	80	Weighted Average
	52,895	74	74.72% Pervious Area
	17,896	98	25.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	67	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
5.7	167	Total			

Summary for Subcatchment P203-U2:

Runoff = 12.10 cfs @ 12.09 hrs, Volume= 0.891 af, Depth= 6.67"
Routed to Pond P203-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,173	98	Driveway
*	15,076	98	Detention Basin
	39,786	74	>75% Grass cover, Good, HSG C
	69,835	84	Weighted Average
	39,786	74	56.97% Pervious Area
	30,049	98	43.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.2	63	0.1100	5.34		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.0	163	Total			

Summary for Subcatchment P203-U3:

Runoff = 6.86 cfs @ 12.07 hrs, Volume= 0.484 af, Depth= 6.43"
Routed to Pond P203-FB : FOREBAY (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	19,103	89	Gravel Parking Lot
*	871	98	Sediment Forebay
	19,326	74	>75% Grass cover, Good, HSG C
	39,300	82	Weighted Average
	38,429	81	97.78% Pervious Area
	871	98	2.22% Impervious Area

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

Summary for Subcatchment P204A-U1:

Runoff = 10.21 cfs @ 12.11 hrs, Volume= 0.800 af, Depth= 6.19"
Routed to Pond P204A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,472	98	Driveway
*	4,795	98	Sand Filter
	50,283	74	>75% Grass cover, Good, HSG C
	67,550	80	Weighted Average
	50,283	74	74.44% Pervious Area
	17,267	98	25.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	38	0.3300	9.25		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
2.0	281	0.0210	2.33		**Shallow Concentrated Flow, Swale**
					Unpaved Kv= 16.1 fps
8.3	419	Total			

Summary for Subcatchment P204A-U2:

Runoff = 5.59 cfs @ 12.10 hrs, Volume= 0.442 af, Depth= 7.16"
Routed to Pond P204A-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	19,412	98	Detention Basin
	12,890	74	>75% Grass cover, Good, HSG C
	32,302	88	Weighted Average
	12,890	74	39.90% Pervious Area
	19,412	98	60.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	50	0.1600	6.44		**Shallow Concentrated Flow, Lawn** Unpaved Kv= 16.1 fps
7.4	150	Total			

Summary for Subcatchment P204B-U1:

Runoff = 12.15 cfs @ 12.12 hrs, Volume= 0.952 af, Depth= 6.07"
Routed to Pond P204B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,106	98	Driveway
*	1,350	98	Sand Filter
	65,774	74	>75% Grass cover, Good, HSG C
	82,030	79	Weighted Average
	65,774	74	80.18% Pervious Area
	16,256	98	19.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	55	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.5	233	0.0250	2.55		**Shallow Concentrated Flow, Swale** Unpaved Kv= 16.1 fps
8.4	388	Total			

Summary for Subcatchment P21.010:

Runoff = 0.97 cfs @ 12.13 hrs, Volume= 0.080 af, Depth= 6.31"
Routed to Pond 21.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,965	98	Pavement
	4,641	74	>75% Grass cover, Good, HSG C
	6,606	81	Weighted Average
	4,641	74	70.25% Pervious Area
	1,965	98	29.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"

Summary for Subcatchment P21.020:

Runoff = 0.21 cfs @ 12.07 hrs, Volume= 0.017 af, Depth= 8.36"
Routed to Pond 21.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,042	98	Pavement
	1,042	98	100.00% Impervious Area

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

Summary for Subcatchment P22.010:

Runoff = 9.47 cfs @ 12.13 hrs, Volume= 0.760 af, Depth= 5.59"
Routed to Pond 22.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,300	98	Pavement
*	1,800	98	Residence
*	672	98	Driveway
	67,347	74	>75% Grass cover, Good, HSG C
	71,119	75	Weighted Average
	67,347	74	94.70% Pervious Area
	3,772	98	5.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.0450	0.24		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
2.4	437	0.0360	3.05		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
9.4	537	Total			

Summary for Subcatchment P23.010:

Runoff = 10.01 cfs @ 12.10 hrs, Volume= 0.774 af, Depth= 6.91"
Routed to Pond 23.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	3,612	98	Assisted Living
*	12,524	98	Driveway
*	1,285	98	Pavement
	30,293	74	>75% Grass cover, Good, HSG C
	58,514	86	Weighted Average
	30,293	74	51.77% Pervious Area
	28,221	98	48.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, 95% grass** Unpaved Kv= 16.1 fps
7.1	466	Total			

Summary for Subcatchment P24.010:

Runoff = 3.08 cfs @ 12.15 hrs, Volume= 0.267 af, Depth= 6.43"
Routed to Pond 24.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,562	98	Driveway
	14,626	74	>75% Grass cover, Good, HSG C
*	1,908	98	Pavement
	21,696	82	Weighted Average
	14,626	74	67.41% Pervious Area
	7,070	98	32.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	67	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	135	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
11.2	302	Total			

Summary for Subcatchment P25.010:

Runoff = 0.97 cfs @ 12.07 hrs, Volume= 0.077 af, Depth= 8.36"
Routed to Pond 25.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	4,843	98	Pavement
	4,843	98	100.00% Impervious Area

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

Summary for Subcatchment P25.020:

Runoff = 5.78 cfs @ 12.15 hrs, Volume= 0.490 af, Depth= 6.07"
Routed to Pond 25.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,365	98	Driveway
*	4,581	98	Pavement
	32,695	74	>75% Grass cover, Good, HSG C
	42,241	79	Weighted Average
	32,695	74	77.40% Pervious Area
	9,546	98	22.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	104	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.8	102	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.9	306	Total			

Summary for Subcatchment P26.010:

Runoff = 1.28 cfs @ 12.11 hrs, Volume= 0.101 af, Depth= 6.55"
Routed to Pond 26.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,800	98	Residence
	5,090	74	>75% Grass cover, Good, HSG C
*	470	98	Pavement
*	707	98	Driveway
	8,067	83	Weighted Average
	5,090	74	63.10% Pervious Area
	2,977	98	36.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	100	0.0330	0.21		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	87	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
8.3	187	Total			

Summary for Subcatchment P26.015:

Runoff = 0.10 cfs @ 12.07 hrs, Volume= 0.008 af, Depth= 8.36"
Routed to Pond 26.015 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	476	98	Pavement
	476	98	100.00% Impervious Area

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

Summary for Subcatchment P26.020:

Runoff = 0.39 cfs @ 12.07 hrs, Volume= 0.031 af, Depth= 8.36"
Routed to Pond 26.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,936	98	Pavement
	1,936	98	100.00% Impervious Area

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

Summary for Subcatchment P26.030:

Runoff = 0.95 cfs @ 12.07 hrs, Volume= 0.076 af, Depth= 8.36"
Routed to Pond 26.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	4,725	98	Pavement
	4,725	98	100.00% Impervious Area

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

Summary for Subcatchment P27.010:

Runoff = 3.61 cfs @ 12.10 hrs, Volume= 0.276 af, Depth= 6.31"
Routed to Pond 27.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	732	98	Driveway
	15,918	74	>75% Grass cover, Good, HSG C
*	4,381	98	Pavement
	22,831	81	Weighted Average
	15,918	74	69.72% Pervious Area
	6,913	98	30.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	63	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.4	50	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.4	213	Total			

Summary for Subcatchment P28.010:

Runoff = 2.96 cfs @ 12.14 hrs, Volume= 0.252 af, Depth= 6.55"
Routed to Pond 28.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,748	98	Driveway
	12,998	74	>75% Grass cover, Good, HSG C
*	1,788	98	Pavement
	20,134	83	Weighted Average
	12,998	74	64.56% Pervious Area
	7,136	98	35.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	35	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.7	127	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.6	262	Total			

Summary for Subcatchment P28.020:

Runoff = 0.36 cfs @ 12.07 hrs, Volume= 0.028 af, Depth= 8.36"
Routed to Pond 28.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	1,778	98	Pavement
	1,778	98	100.00% Impervious Area

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

Summary for Subcatchment P28.030:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 28.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P29.010:

Runoff = 3.33 cfs @ 12.12 hrs, Volume= 0.265 af, Depth= 6.55"
Routed to Pond 29.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,558	98	Driveway
	13,416	74	>75% Grass cover, Good, HSG C
*	2,602	98	Pavement
	21,176	83	Weighted Average
	13,416	74	63.35% Pervious Area
	7,760	98	36.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0350	0.22		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.1	10	0.0400	3.22		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.7	122	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.5	232	Total			

Summary for Subcatchment P3.010:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 3.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P4.010:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 4.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	2,608	98	100.00% Impervious Area

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

Summary for Subcatchment P5.010:

Runoff = 1.89 cfs @ 12.07 hrs, Volume= 0.138 af, Depth= 7.28"
Routed to Pond 5.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	6,272	98	Pavement
	3,653	74	>75% Grass cover, Good, HSG C
	9,925	89	Weighted Average
	3,653	74	36.81% Pervious Area
	6,272	98	63.19% Impervious Area

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

Summary for Subcatchment P5.020:

Runoff = 1.19 cfs @ 12.07 hrs, Volume= 0.084 af, Depth= 6.67"
Routed to Pond 5.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
	3,861	74	>75% Grass cover, Good, HSG C
*	2,746	98	Pavement
	6,607	84	Weighted Average
	3,861	74	58.44% Pervious Area
	2,746	98	41.56% Impervious Area

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

Summary for Subcatchment P6.010:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 6.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P7.010:

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 7.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,625	98	Pavement
	2,625	98	100.00% Impervious Area

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

Summary for Subcatchment P8.010:

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Depth= 8.36"
Routed to Pond 8.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,646	98	Pavement
	2,646	98	100.00% Impervious Area

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

Summary for Subcatchment P9.010:

Runoff = 2.22 cfs @ 12.07 hrs, Volume= 0.164 af, Depth= 7.40"
Routed to Pond 9.010 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,258	98	Pavement
*	4,375	98	Driveway
	3,947	74	>75% Grass cover, Good, HSG C
	11,580	90	Weighted Average
	3,947	74	34.08% Pervious Area
	7,633	98	65.92% Impervious Area

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

Summary for Subcatchment P9.020:

Runoff = 0.44 cfs @ 12.07 hrs, Volume= 0.035 af, Depth= 8.36"
Routed to Pond 9.020 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,192	98	Pavement
	2,192	98	100.00% Impervious Area

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

Summary for Subcatchment P9.030:

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.041 af, Depth= 8.36"
Routed to Pond 9.030 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,586	98	Pavement
	2,586	98	100.00% Impervious Area

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

Summary for Subcatchment P9.040:

Runoff = 1.88 cfs @ 12.07 hrs, Volume= 0.134 af, Depth= 6.67"
Routed to Pond 9.040 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,570	98	Pavement
*	1,648	98	Driveway
	6,243	74	>75% Grass cover, Good, HSG C
	10,461	84	Weighted Average
	6,243	74	59.68% Pervious Area
	4,218	98	40.32% Impervious Area

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

Summary for Subcatchment P9.050:

Runoff = 8.02 cfs @ 12.12 hrs, Volume= 0.652 af, Depth= 6.55"
Routed to Pond 9.050 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	3,077	98	Pavement
*	6,552	98	Tennis
*	9,000	98	Residence
*	1,723	98	Driveway
	31,697	74	>75% Grass cover, Good, HSG C
	52,049	83	Weighted Average
	31,697	74	60.90% Pervious Area
	20,352	98	39.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	354	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.2	20	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.1	474	Total			

Summary for Subcatchment P9.060:

Runoff = 0.57 cfs @ 12.07 hrs, Volume= 0.045 af, Depth= 8.36"
Routed to Pond 9.060 :

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-YEAR Rainfall=8.60"

	Area (sf)	CN	Description
*	2,836	98	Pavement
	2,836	98	100.00% Impervious Area

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

Summary for Pond 1.010:

Inflow Area = 0.019 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.013 af
Outflow = 0.16 cfs @ 12.07 hrs, Volume= 0.013 af, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.013 af
Routed to Pond 1.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.41' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.21' / 88.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.07 hrs HW=88.41' TW=88.03' (Dynamic Tailwater)
↑—**1=12" ADS** (Barrel Controls 0.16 cfs @ 2.16 fps)

Summary for Pond 1.020:

Inflow Area = 0.170 ac, 46.46% Impervious, Inflow Depth = 6.86" for 100-YEAR event
Inflow = 1.35 cfs @ 12.07 hrs, Volume= 0.097 af
Outflow = 1.35 cfs @ 12.07 hrs, Volume= 0.097 af, Atten= 0%, Lag= 0.0 min
Primary = 1.35 cfs @ 12.07 hrs, Volume= 0.097 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.03' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.51'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.51' / 85.51' S= 0.0101 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.35 cfs @ 12.07 hrs HW=88.03' TW=86.07' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 1.35 cfs @ 2.46 fps)

Summary for Pond 1.030:

Inflow Area = 0.377 ac, 52.67% Impervious, Inflow Depth = 7.02" for 100-YEAR event
Inflow = 3.02 cfs @ 12.07 hrs, Volume= 0.220 af
Outflow = 3.02 cfs @ 12.07 hrs, Volume= 0.220 af, Atten= 0%, Lag= 0.0 min
Primary = 3.02 cfs @ 12.07 hrs, Volume= 0.220 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.08' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.26'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.26' / 83.19' S= 0.0105 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.01 cfs @ 12.07 hrs HW=86.07' TW=81.49' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 3.01 cfs @ 3.07 fps)

Summary for Pond 1.040:

Inflow Area = 0.583 ac, 54.48% Impervious, Inflow Depth = 7.07" for 100-YEAR event
Inflow = 4.69 cfs @ 12.07 hrs, Volume= 0.344 af
Outflow = 4.69 cfs @ 12.07 hrs, Volume= 0.344 af, Atten= 0%, Lag= 0.0 min
Primary = 4.69 cfs @ 12.07 hrs, Volume= 0.344 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 81.49' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	80.43'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 80.43' / 69.54' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.68 cfs @ 12.07 hrs HW=81.49' TW=68.01' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 4.68 cfs @ 3.51 fps)

Summary for Pond 1.050:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 7.09" for 100-YEAR event
Inflow = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af
Outflow = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af, Atten= 0%, Lag= 0.0 min
Primary = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af
Routed to Pond 1.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.01' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.70'	**18.0" Round 18" ADS** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 66.70' / 61.75' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=6.36 cfs @ 12.07 hrs HW=68.01' TW=63.01' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 6.36 cfs @ 3.89 fps)

Summary for Pond 1.060:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 7.09" for 100-YEAR event
Inflow = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af
Outflow = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af, Atten= 0%, Lag= 0.0 min
Primary = 6.36 cfs @ 12.07 hrs, Volume= 0.467 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.73' @ 12.13 hrs
Flood Elev= 67.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	**18.0" Round 18" ADS** L= 98.0' Ke= 0.500 Inlet / Outlet Invert= 61.50' / 57.80' S= 0.0378 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=63.01' TW=63.21' (Dynamic Tailwater)
↑—**1=18" ADS** (Controls 0.00 cfs)

Summary for Pond 1.070:

Inflow Area = 1.294 ac, 55.83% Impervious, Inflow Depth = 7.09" for 100-YEAR event
Inflow = 10.46 cfs @ 12.07 hrs, Volume= 0.765 af
Outflow = 10.46 cfs @ 12.07 hrs, Volume= 0.765 af, Atten= 0%, Lag= 0.0 min
Primary = 10.46 cfs @ 12.07 hrs, Volume= 0.765 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.36' @ 12.12 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.30'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.30' / 57.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=63.21' TW=63.77' (Dynamic Tailwater)
↑—**1=24" ADS** (Controls 0.00 cfs)

Summary for Pond 1.080:

Inflow Area = 2.377 ac, 47.31% Impervious, Inflow Depth = 6.84" for 100-YEAR event
Inflow = 18.00 cfs @ 12.08 hrs, Volume= 1.355 af
Outflow = 18.00 cfs @ 12.08 hrs, Volume= 1.355 af, Atten= 0%, Lag= 0.0 min
Primary = 18.00 cfs @ 12.08 hrs, Volume= 1.355 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.04' @ 12.11 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.85'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 56.85' / 54.87' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=13.89 cfs @ 12.08 hrs HW=64.62' TW=63.53' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 13.89 cfs @ 4.42 fps)

Summary for Pond 1.090:

Inflow Area = 4.259 ac, 37.28% Impervious, Inflow Depth = 6.53" for 100-YEAR event
Inflow = 28.91 cfs @ 12.10 hrs, Volume= 2.318 af
Outflow = 28.91 cfs @ 12.10 hrs, Volume= 2.318 af, Atten= 0%, Lag= 0.0 min
Primary = 28.91 cfs @ 12.10 hrs, Volume= 2.318 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.50' @ 12.11 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.62'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 54.62' / 52.64' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=28.05 cfs @ 12.10 hrs HW=64.23' TW=59.77' (Dynamic Tailwater)
↑—**1=24" ADS** (Outlet Controls 28.05 cfs @ 8.93 fps)

Summary for Pond 1.100:

Inflow Area = 6.301 ac, 34.44% Impervious, Inflow Depth = 6.44" for 100-YEAR event
Inflow = 40.48 cfs @ 12.11 hrs, Volume= 3.383 af
Outflow = 40.48 cfs @ 12.11 hrs, Volume= 3.383 af, Atten= 0%, Lag= 0.0 min
Primary = 40.48 cfs @ 12.11 hrs, Volume= 3.383 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.94' @ 12.11 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.39'	**30.0" Round 30" ADS** L= 124.0' Ke= 0.500 Inlet / Outlet Invert= 52.39' / 51.46' S= 0.0075 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=40.43 cfs @ 12.11 hrs HW=59.92' TW=57.00' (Dynamic Tailwater)
↑—**1=30" ADS** (Inlet Controls 40.43 cfs @ 8.24 fps)

Summary for Pond 1.110: Diversion

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 6.57" for 100-YEAR event
Inflow = 58.28 cfs @ 12.10 hrs, Volume= 4.833 af
Outflow = 58.28 cfs @ 12.10 hrs, Volume= 4.833 af, Atten= 0%, Lag= 0.0 min
Primary = 14.00 cfs @ 12.10 hrs, Volume= 3.332 af
Routed to Pond 1.120 : HS
Secondary = 44.29 cfs @ 12.10 hrs, Volume= 1.500 af
Routed to Pond P201-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.01' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	51.21'	**18.0" Round 18" ADS to 201-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 51.21' / 51.11' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Secondary	52.25'	**30.0" Round 30" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 52.25' / 50.25' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=13.94 cfs @ 12.10 hrs HW=57.00' TW=54.31' (Dynamic Tailwater)
↑—**1=18" ADS to 201-SF Separator** (Inlet Controls 13.94 cfs @ 7.89 fps)

Secondary OutFlow Max=44.25 cfs @ 12.10 hrs HW=57.00' TW=50.59' (Dynamic Tailwater)
↑—**2=30" ADS** (Inlet Controls 44.25 cfs @ 9.01 fps)

Summary for Pond 1.120: HS

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 4.53" for 100-YEAR event
Inflow = 14.00 cfs @ 12.10 hrs, Volume= 3.332 af
Outflow = 14.00 cfs @ 12.10 hrs, Volume= 3.332 af, Atten= 0%, Lag= 0.0 min
Primary = 14.00 cfs @ 12.10 hrs, Volume= 3.332 af
Routed to Pond P201-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.32' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.86'	**18.0" Round 18" ADS** L= 80.0' Ke= 0.500 Inlet / Outlet Invert= 50.86' / 50.00' S= 0.0107 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=13.99 cfs @ 12.10 hrs HW=54.31' TW=51.27' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 13.99 cfs @ 7.91 fps)

Summary for Pond 2.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.59' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	86.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 86.21' / 86.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.07 hrs HW=86.59' TW=86.08' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.52 cfs @ 2.80 fps)

Summary for Pond 3.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 84.27' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	83.89'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 83.89' / 83.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.07 hrs HW=84.27' TW=81.49' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.52 cfs @ 2.80 fps)

Summary for Pond 4.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 70.62' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	70.24'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 70.24' / 70.04' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.52 cfs @ 12.07 hrs HW=70.62' TW=68.01' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.52 cfs @ 2.80 fps)

Summary for Pond 5.010:

Inflow Area = 0.228 ac, 63.19% Impervious, Inflow Depth = 7.28" for 100-YEAR event
Inflow = 1.89 cfs @ 12.07 hrs, Volume= 0.138 af
Outflow = 1.89 cfs @ 12.07 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 1.89 cfs @ 12.07 hrs, Volume= 0.138 af
Routed to Pond 5.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.90' @ 12.14 hrs
Flood Elev= 62.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.30'	**12.0" Round 12" ADS** L= 55.0' Ke= 0.500 Inlet / Outlet Invert= 59.30' / 58.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=61.87' TW=62.73' (Dynamic Tailwater)
1=12" ADS (Controls 0.00 cfs)

Summary for Pond 5.020:

Inflow Area = 0.380 ac, 54.55% Impervious, Inflow Depth = 7.03" for 100-YEAR event
Inflow = 3.07 cfs @ 12.07 hrs, Volume= 0.222 af
Outflow = 3.07 cfs @ 12.07 hrs, Volume= 0.222 af, Atten= 0%, Lag= 0.0 min
Primary = 3.07 cfs @ 12.07 hrs, Volume= 0.222 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.76' @ 12.13 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.50' / 58.30' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=62.76' TW=63.21' (Dynamic Tailwater)
1=12" ADS (Controls 0.00 cfs)

Summary for Pond 6.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.05' @ 12.12 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.30' / 58.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=62.63' TW=63.66' (Dynamic Tailwater)
1=12" ADS (Controls 0.00 cfs)

Summary for Pond 7.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.50' @ 12.12 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.92'	**20.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 59.92' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 2.18 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=61.86' TW=62.75' (Dynamic Tailwater)
1=12" ADS (Controls 0.00 cfs)

Summary for Pond 8.010:

Inflow Area = 0.061 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.53 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.31' @ 12.07 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.92'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.92' / 61.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.53 cfs @ 12.07 hrs HW=62.31' TW=58.89' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.53 cfs @ 2.81 fps)

Summary for Pond 9.010:

Inflow Area = 0.266 ac, 65.92% Impervious, Inflow Depth = 7.40" for 100-YEAR event
Inflow = 2.22 cfs @ 12.07 hrs, Volume= 0.164 af
Outflow = 2.22 cfs @ 12.07 hrs, Volume= 0.164 af, Atten= 0%, Lag= 0.0 min
Primary = 2.22 cfs @ 12.07 hrs, Volume= 0.164 af
Routed to Pond 9.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.47' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.54'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 85.54' / 85.34' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=2.22 cfs @ 12.07 hrs HW=86.47' TW=85.85' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 2.22 cfs @ 3.80 fps)

Summary for Pond 9.020:

Inflow Area = 0.316 ac, 71.34% Impervious, Inflow Depth = 7.55" for 100-YEAR event
Inflow = 2.66 cfs @ 12.07 hrs, Volume= 0.199 af
Outflow = 2.66 cfs @ 12.07 hrs, Volume= 0.199 af, Atten= 0%, Lag= 0.0 min
Primary = 2.66 cfs @ 12.07 hrs, Volume= 0.199 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.85' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.09'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.09' / 76.29' S= 0.0444 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.66 cfs @ 12.07 hrs HW=85.85' TW=77.38' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 2.66 cfs @ 2.97 fps)

Summary for Pond 9.030:

Inflow Area = 0.783 ac, 70.43% Impervious, Inflow Depth = 7.53" for 100-YEAR event
Inflow = 6.59 cfs @ 12.07 hrs, Volume= 0.492 af
Outflow = 6.59 cfs @ 12.07 hrs, Volume= 0.492 af, Atten= 0%, Lag= 0.0 min
Primary = 6.59 cfs @ 12.07 hrs, Volume= 0.492 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.38' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.04'	**18.0" Round 18" ADS** L= 195.0' Ke= 0.500 Inlet / Outlet Invert= 76.04' / 65.39' S= 0.0546 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=6.59 cfs @ 12.07 hrs HW=77.38' TW=67.99' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 6.59 cfs @ 3.95 fps)

Summary for Pond 9.040:

Inflow Area = 1.265 ac, 56.56% Impervious, Inflow Depth = 7.14" for 100-YEAR event
Inflow = 10.13 cfs @ 12.07 hrs, Volume= 0.752 af
Outflow = 10.13 cfs @ 12.07 hrs, Volume= 0.752 af, Atten= 0%, Lag= 0.0 min
Primary = 10.13 cfs @ 12.07 hrs, Volume= 0.752 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.33' @ 12.09 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.14'	**18.0" Round 18" ADS** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 65.14' / 61.24' S= 0.0205 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=9.57 cfs @ 12.07 hrs HW=68.07' TW=66.04' (Dynamic Tailwater)
1=18" ADS (Outlet Controls 9.57 cfs @ 5.42 fps)

Summary for Pond 9.050:

Inflow Area = 2.525 ac, 49.42% Impervious, Inflow Depth = 6.89" for 100-YEAR event
Inflow = 17.98 cfs @ 12.09 hrs, Volume= 1.450 af
Outflow = 17.98 cfs @ 12.09 hrs, Volume= 1.450 af, Atten= 0%, Lag= 0.0 min
Primary = 17.98 cfs @ 12.09 hrs, Volume= 1.450 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.20' @ 12.09 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.99'	**18.0" Round 18" ADS** L= 92.0' Ke= 0.500 Inlet / Outlet Invert= 60.99' / 56.39' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=17.97 cfs @ 12.09 hrs HW=66.20' TW=56.96' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 17.97 cfs @ 10.17 fps)

Summary for Pond 9.060:

Inflow Area = 0.065 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.57 cfs @ 12.07 hrs, Volume= 0.045 af
Outflow = 0.57 cfs @ 12.07 hrs, Volume= 0.045 af, Atten= 0%, Lag= 0.0 min
Primary = 0.57 cfs @ 12.07 hrs, Volume= 0.045 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.22' @ 12.10 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.92'	**12.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.92' / 62.92' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=65.72' TW=65.97' (Dynamic Tailwater)
1=18" ADS (Controls 0.00 cfs)

Summary for Pond 10.010:

Inflow Area = 0.408 ac, 65.43% Impervious, Inflow Depth = 7.40" for 100-YEAR event
Inflow = 3.41 cfs @ 12.07 hrs, Volume= 0.251 af
Outflow = 3.41 cfs @ 12.07 hrs, Volume= 0.251 af, Atten= 0%, Lag= 0.0 min
Primary = 3.41 cfs @ 12.07 hrs, Volume= 0.251 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 78.39' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.99'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.99' / 76.79' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.41 cfs @ 12.07 hrs HW=78.38' TW=77.38' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 3.41 cfs @ 4.34 fps)

Summary for Pond 11.010:

Inflow Area = 0.242 ac, 27.76% Impervious, Inflow Depth = 6.31" for 100-YEAR event
Inflow = 1.71 cfs @ 12.09 hrs, Volume= 0.127 af
Outflow = 1.71 cfs @ 12.09 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 1.71 cfs @ 12.09 hrs, Volume= 0.127 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.53' @ 12.10 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.09'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.09' / 65.89' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.52 cfs @ 12.09 hrs HW=68.46' TW=68.30' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 1.52 cfs @ 1.94 fps)

Summary for Pond 12.010:

Inflow Area = 2.589 ac, 23.84% Impervious, Inflow Depth = 6.19" for 100-YEAR event
Inflow = 16.75 cfs @ 12.12 hrs, Volume= 1.335 af
Outflow = 16.75 cfs @ 12.12 hrs, Volume= 1.335 af, Atten= 0%, Lag= 0.0 min
Primary = 16.75 cfs @ 12.12 hrs, Volume= 1.335 af
Routed to Pond 12.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.91' @ 12.14 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.47' / 61.27' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=16.09 cfs @ 12.12 hrs HW=64.74' TW=63.61' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 16.09 cfs @ 5.12 fps)

Summary for Pond 12.020:

Inflow Area = 2.700 ac, 26.97% Impervious, Inflow Depth = 6.28" for 100-YEAR event
Inflow = 17.56 cfs @ 12.12 hrs, Volume= 1.412 af
Outflow = 17.56 cfs @ 12.12 hrs, Volume= 1.412 af, Atten= 0%, Lag= 0.0 min
Primary = 17.56 cfs @ 12.12 hrs, Volume= 1.412 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 63.73' @ 12.13 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.02'	**24.0" Round 24" ADS** L= 148.0' Ke= 0.500 Inlet / Outlet Invert= 61.02' / 59.57' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=17.01 cfs @ 12.12 hrs HW=63.57' TW=62.25' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 17.01 cfs @ 5.50 fps)

Summary for Pond 12.030:

Inflow Area = 3.346 ac, 28.43% Impervious, Inflow Depth = 6.32" for 100-YEAR event
Inflow = 21.15 cfs @ 12.12 hrs, Volume= 1.763 af
Outflow = 21.15 cfs @ 12.12 hrs, Volume= 1.763 af, Atten= 0%, Lag= 0.0 min
Primary = 21.15 cfs @ 12.12 hrs, Volume= 1.763 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.27' @ 12.13 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**24.0" Round 24" ADS** L= 132.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 57.90' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=21.12 cfs @ 12.12 hrs HW=62.26' TW=60.22' (Dynamic Tailwater)
1=24" ADS (Outlet Controls 21.12 cfs @ 6.72 fps)

Summary for Pond 12.040:

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 6.39" for 100-YEAR event
Inflow = 27.71 cfs @ 12.11 hrs, Volume= 2.342 af
Outflow = 27.71 cfs @ 12.11 hrs, Volume= 2.342 af, Atten= 0%, Lag= 0.0 min
Primary = 27.71 cfs @ 12.11 hrs, Volume= 2.342 af
Routed to Pond 12.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.23' @ 12.12 hrs
Flood Elev= 69.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**30.0" Round 30" ADS** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.36' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=27.58 cfs @ 12.11 hrs HW=60.22' TW=58.86' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 27.58 cfs @ 5.62 fps)

Summary for Pond 12.050: Diversion

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 6.39" for 100-YEAR event
Inflow = 27.71 cfs @ 12.11 hrs, Volume= 2.342 af
Outflow = 27.71 cfs @ 12.11 hrs, Volume= 2.342 af, Atten= 0%, Lag= 0.0 min
Primary = 4.41 cfs @ 12.11 hrs, Volume= 1.459 af
Routed to Pond 12.060 : HS
Secondary = 23.30 cfs @ 12.11 hrs, Volume= 0.883 af
Routed to Pond P203-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.86' @ 12.11 hrs
Flood Elev= 63.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	**12.0" Round 12" ADS To P203-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 56.00' / 55.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Secondary	56.65'	**30.0" Round 30" ADS** L= 111.0' Ke= 0.500 Inlet / Outlet Invert= 56.65' / 54.00' S= 0.0239 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=4.40 cfs @ 12.11 hrs HW=58.86' TW=57.51' (Dynamic Tailwater)
1=12" ADS To P203-SF Separator (Inlet Controls 4.40 cfs @ 5.60 fps)

Secondary OutFlow Max=23.27 cfs @ 12.11 hrs HW=58.86' TW=53.52' (Dynamic Tailwater)
2=30" ADS (Inlet Controls 23.27 cfs @ 5.06 fps)

Summary for Pond 12.060: HS

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 3.98" for 100-YEAR event
Inflow = 4.41 cfs @ 12.11 hrs, Volume= 1.459 af
Outflow = 4.41 cfs @ 12.11 hrs, Volume= 1.459 af, Atten= 0%, Lag= 0.0 min
Primary = 4.41 cfs @ 12.11 hrs, Volume= 1.459 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.51' @ 12.11 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.65'	**12.0" Round 12" ADS** L= 72.0' Ke= 0.500 Inlet / Outlet Invert= 55.65' / 54.00' S= 0.0229 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=4.41 cfs @ 12.11 hrs HW=57.51' TW=53.55' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 4.41 cfs @ 5.61 fps)

Summary for Pond 13.010:

Inflow Area = 0.586 ac, 27.82% Impervious, Inflow Depth = 6.31" for 100-YEAR event
Inflow = 3.44 cfs @ 12.17 hrs, Volume= 0.308 af
Outflow = 3.44 cfs @ 12.17 hrs, Volume= 0.308 af, Atten= 0%, Lag= 0.0 min
Primary = 3.44 cfs @ 12.17 hrs, Volume= 0.308 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.56' @ 12.17 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.58'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.58' / 63.38' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.44 cfs @ 12.17 hrs HW=64.56' TW=61.86' (Dynamic Tailwater)
1=18" ADS (Barrel Controls 3.44 cfs @ 3.98 fps)

Summary for Pond 14.010:

Inflow Area = 0.370 ac, 46.30% Impervious, Inflow Depth = 6.79" for 100-YEAR event
Inflow = 2.93 cfs @ 12.07 hrs, Volume= 0.209 af
Outflow = 2.93 cfs @ 12.07 hrs, Volume= 0.209 af, Atten= 0%, Lag= 0.0 min
Primary = 2.93 cfs @ 12.07 hrs, Volume= 0.209 af
Routed to Pond 14.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.79' @ 12.09 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.66'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500

Inlet / Outlet Invert= 65.66' / 65.46' S= 0.0100 '/' Cc= 0.900
n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.75 cfs @ 12.07 hrs HW=66.77' TW=66.56' (Dynamic Tailwater)
↑—**1=18" ADS** (Outlet Controls 2.75 cfs @ 2.73 fps)

Summary for Pond 14.020:

Inflow Area = 0.611 ac, 37.49% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 4.71 cfs @ 12.07 hrs, Volume= 0.334 af
Outflow = 4.71 cfs @ 12.07 hrs, Volume= 0.334 af, Atten= 0%, Lag= 0.0 min
Primary = 4.71 cfs @ 12.07 hrs, Volume= 0.334 af
Routed to Pond 14.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.57' @ 12.08 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.21'	**18.0" Round 18" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 65.21' / 65.03' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.55 cfs @ 12.07 hrs HW=66.56' TW=66.22' (Dynamic Tailwater)
↑—**1=18" ADS** (Outlet Controls 4.55 cfs @ 3.58 fps)

Summary for Pond 14.030:

Inflow Area = 0.991 ac, 35.25% Impervious, Inflow Depth = 6.51" for 100-YEAR event
Inflow = 6.43 cfs @ 12.08 hrs, Volume= 0.537 af
Outflow = 6.43 cfs @ 12.08 hrs, Volume= 0.537 af, Atten= 0%, Lag= 0.0 min
Primary = 6.43 cfs @ 12.08 hrs, Volume= 0.537 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.23' @ 12.08 hrs
Flood Elev= 69.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.78'	**18.0" Round 18" ADS** L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 64.78' / 64.53' S= 0.0104 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=6.43 cfs @ 12.08 hrs HW=66.23' TW=60.06' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 6.43 cfs @ 4.69 fps)

Summary for Pond 15.010:

Inflow Area = 0.035 ac, 73.21% Impervious, Inflow Depth = 7.64" for 100-YEAR event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.022 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.022 af
Routed to Pond 15.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.55' @ 12.07 hrs
Flood Elev= 92.47'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.27'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.27' / 88.07' S= 0.0100 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=88.55' TW=88.26' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.48 fps)

Summary for Pond 15.020:

Inflow Area = 0.098 ac, 52.25% Impervious, Inflow Depth = 7.02" for 100-YEAR event
Inflow = 0.79 cfs @ 12.07 hrs, Volume= 0.057 af
Outflow = 0.79 cfs @ 12.07 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.79 cfs @ 12.07 hrs, Volume= 0.057 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.26' @ 12.07 hrs
Flood Elev= 92.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.87'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.87' / 76.44' S= 0.0577 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.79 cfs @ 12.07 hrs HW=88.26' TW=76.53' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.79 cfs @ 2.13 fps)

Summary for Pond 15.040:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 6.98" for 100-YEAR event
Inflow = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af
Outflow = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
Primary = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.15' @ 12.15 hrs
Flood Elev= 72.99'

Device	Routing	Invert	Outlet Devices
#1	Primary	68.08'	**18.0" Round 18" ADS** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 68.08' / 64.49' S= 0.0552 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.77 cfs @ 12.07 hrs HW=68.86' TW=65.25' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 2.77 cfs @ 3.00 fps)

Summary for Pond 15.050:

Inflow Area = 0.499 ac, 58.33% Impervious, Inflow Depth = 7.19" for 100-YEAR event
Inflow = 4.08 cfs @ 12.07 hrs, Volume= 0.299 af
Outflow = 4.08 cfs @ 12.07 hrs, Volume= 0.299 af, Atten= 0%, Lag= 0.0 min
Primary = 4.08 cfs @ 12.07 hrs, Volume= 0.299 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.10' @ 12.14 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.99'	**24.0" Round 24" ADS** L= 96.0' Ke= 0.500 Inlet / Outlet Invert= 63.99' / 58.57' S= 0.0565 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=65.23' TW=66.08' (Dynamic Tailwater)
1=24" ADS (Controls 0.00 cfs)

Summary for Pond 15.055:

Inflow Area = 1.872 ac, 51.75% Impervious, Inflow Depth = 7.01" for 100-YEAR event
Inflow = 14.17 cfs @ 12.09 hrs, Volume= 1.093 af
Outflow = 14.17 cfs @ 12.09 hrs, Volume= 1.093 af, Atten= 0%, Lag= 0.0 min
Primary = 14.17 cfs @ 12.09 hrs, Volume= 1.093 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.06' @ 12.13 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.32'	**24.0" Round 24" ADS** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 58.32' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.09 hrs HW=68.62' TW=69.08' (Dynamic Tailwater)
1=24" ADS (Controls 0.00 cfs)

Summary for Pond 15.060:

Inflow Area = 4.297 ac, 30.98% Impervious, Inflow Depth = 6.38" for 100-YEAR event
Inflow = 29.10 cfs @ 12.10 hrs, Volume= 2.284 af
Outflow = 29.10 cfs @ 12.10 hrs, Volume= 2.284 af, Atten= 0%, Lag= 0.0 min
Primary = 29.10 cfs @ 12.10 hrs, Volume= 2.284 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 71.37' @ 12.12 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.12'	**24.0" Round 24" ADS** L= 97.0' Ke= 0.500 Inlet / Outlet Invert= 57.12' / 56.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=26.14 cfs @ 12.10 hrs HW=70.37' TW=67.38' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 26.14 cfs @ 8.32 fps)

Summary for Pond 15.065:

Inflow Area = 5.959 ac, 24.29% Impervious, Inflow Depth = 6.17" for 100-YEAR event
Inflow = 38.51 cfs @ 12.11 hrs, Volume= 3.064 af
Outflow = 38.51 cfs @ 12.11 hrs, Volume= 3.064 af, Atten= 0%, Lag= 0.0 min
Primary = 38.51 cfs @ 12.11 hrs, Volume= 3.064 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.92' @ 12.12 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.90'	**24.0" Round 24" ADS** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 55.90' / 55.28' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=37.58 cfs @ 12.11 hrs HW=67.68' TW=61.50' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 37.58 cfs @ 11.96 fps)

Summary for Pond 15.070:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 6.24" for 100-YEAR event
Inflow = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af
Outflow = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af, Atten= 0%, Lag= 0.0 min
Primary = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af
Routed to Pond 15.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.62' @ 12.12 hrs
Flood Elev= 64.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.55'	**30.0" Round 30" ADS** L= 125.0' Ke= 0.500 Inlet / Outlet Invert= 54.55' / 52.80' S= 0.0140 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=42.77 cfs @ 12.11 hrs HW=61.55' TW=58.28' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 42.77 cfs @ 8.71 fps)

Summary for Pond 15.080:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 6.24" for 100-YEAR event
Inflow = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af
Outflow = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af, Atten= 0%, Lag= 0.0 min
Primary = 43.48 cfs @ 12.11 hrs, Volume= 3.509 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.29' @ 12.11 hrs
Flood Elev= 57.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.55'	**30.0" Round 30" ADS** L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 52.55' / 50.73' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=43.27 cfs @ 12.11 hrs HW=58.28' TW=54.73' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 43.27 cfs @ 8.82 fps)

Summary for Pond 15.090: Diversion

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 6.26" for 100-YEAR event
Inflow = 50.91 cfs @ 12.11 hrs, Volume= 4.173 af
Outflow = 50.91 cfs @ 12.11 hrs, Volume= 4.173 af, Atten= 0%, Lag= 0.0 min
Primary = 5.42 cfs @ 12.10 hrs, Volume= 2.315 af
Routed to Pond 15.100 : HS
Secondary = 45.49 cfs @ 12.11 hrs, Volume= 1.858 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.74' @ 12.11 hrs
Flood Elev= 56.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.48'	**12.0" Round 12" ADS to 202A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 50.48' / 50.38' S= 0.0200 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

#2	Secondary	51.45'	**36.0" Round 36" ADS** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 51.45' / 46.00' S= 0.0376 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=5.40 cfs @ 12.10 hrs HW=54.72' TW=52.68' (Dynamic Tailwater)
1=12" ADS to 202A-SF Separator (Inlet Controls 5.40 cfs @ 6.87 fps)

Secondary OutFlow Max=45.44 cfs @ 12.11 hrs HW=54.73' TW=49.04' (Dynamic Tailwater)
2=36" ADS (Inlet Controls 45.44 cfs @ 6.43 fps)

Summary for Pond 15.100: HS

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 3.47" for 100-YEAR event
Inflow = 5.42 cfs @ 12.10 hrs, Volume= 2.315 af
Outflow = 5.42 cfs @ 12.10 hrs, Volume= 2.315 af, Atten= 0%, Lag= 0.0 min
Primary = 5.42 cfs @ 12.10 hrs, Volume= 2.315 af
Routed to Pond P202A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.69' @ 12.10 hrs
Flood Elev= 56.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.13'	**12.0" Round 12" ADS** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 50.13' / 48.00' S= 0.0355 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=5.42 cfs @ 12.10 hrs HW=52.68' TW=47.49' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 5.42 cfs @ 6.90 fps)

Summary for Pond 16.010:

Inflow Area = 0.100 ac, 65.05% Impervious, Inflow Depth = 7.40" for 100-YEAR event
Inflow = 0.83 cfs @ 12.07 hrs, Volume= 0.061 af
Outflow = 0.83 cfs @ 12.07 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.83 cfs @ 12.07 hrs, Volume= 0.061 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.20' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.70'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.70' / 76.50' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.83 cfs @ 12.07 hrs HW=77.20' TW=76.53' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.83 cfs @ 3.09 fps)

Summary for Pond 16.030:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 6.98" for 100-YEAR event
Inflow = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af
Outflow = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af, Atten= 0%, Lag= 0.0 min
Primary = 2.77 cfs @ 12.07 hrs, Volume= 0.200 af
Routed to Pond 15.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 76.53' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	75.75'	**18.0" Round 18" ADS** L= 130.0' Ke= 0.500 Inlet / Outlet Invert= 75.75' / 68.33' S= 0.0571 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=2.77 cfs @ 12.07 hrs HW=76.53' TW=68.86' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 2.77 cfs @ 3.00 fps)

Summary for Pond 17.010:

Inflow Area = 0.063 ac, 87.39% Impervious, Inflow Depth = 8.00" for 100-YEAR event
Inflow = 0.55 cfs @ 12.07 hrs, Volume= 0.042 af
Outflow = 0.55 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min
Primary = 0.55 cfs @ 12.07 hrs, Volume= 0.042 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.11' @ 12.15 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.19' / 64.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.55 cfs @ 12.07 hrs HW=65.58' TW=65.16' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.55 cfs @ 2.82 fps)

Summary for Pond 18.010:

Inflow Area = 2.365 ac, 12.80% Impervious, Inflow Depth = 5.83" for 100-YEAR event
Inflow = 14.77 cfs @ 12.12 hrs, Volume= 1.149 af
Outflow = 14.77 cfs @ 12.12 hrs, Volume= 1.149 af, Atten= 0%, Lag= 0.0 min
Primary = 14.77 cfs @ 12.12 hrs, Volume= 1.149 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.29' @ 12.13 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.57'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.57' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=9.62 cfs @ 12.12 hrs HW=71.56' TW=71.15' (Dynamic Tailwater)
↑**1=24" ADS** (Inlet Controls 9.62 cfs @ 3.06 fps)

Summary for Pond 19.010:

Inflow Area = 0.215 ac, 39.41% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 1.40 cfs @ 12.14 hrs, Volume= 0.117 af
Outflow = 1.40 cfs @ 12.14 hrs, Volume= 0.117 af, Atten= 0%, Lag= 0.0 min
Primary = 1.40 cfs @ 12.14 hrs, Volume= 0.117 af
Routed to Pond 19.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 65.70' @ 12.14 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.01' / 64.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.40 cfs @ 12.14 hrs HW=65.70' TW=64.88' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 1.40 cfs @ 3.44 fps)

Summary for Pond 19.020:

Inflow Area = 0.244 ac, 46.63% Impervious, Inflow Depth = 6.77" for 100-YEAR event
Inflow = 1.60 cfs @ 12.12 hrs, Volume= 0.138 af
Outflow = 1.60 cfs @ 12.12 hrs, Volume= 0.138 af, Atten= 0%, Lag= 0.0 min
Primary = 1.60 cfs @ 12.12 hrs, Volume= 0.138 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.88' @ 12.12 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.31'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 64.31' / 60.31' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.60 cfs @ 12.12 hrs HW=64.88' TW=61.94' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 1.60 cfs @ 2.58 fps)

Summary for Pond 19.030:

Inflow Area = 0.790 ac, 43.90% Impervious, Inflow Depth = 6.76" for 100-YEAR event
Inflow = 5.07 cfs @ 12.13 hrs, Volume= 0.445 af
Outflow = 5.07 cfs @ 12.13 hrs, Volume= 0.445 af, Atten= 0%, Lag= 0.0 min
Primary = 5.07 cfs @ 12.13 hrs, Volume= 0.445 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.98' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.06'	**18.0" Round 18" ADS** L= 32.0' Ke= 0.500 Inlet / Outlet Invert= 60.06' / 59.42' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=5.91 cfs @ 12.13 hrs HW=61.97' TW=61.48' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 5.91 cfs @ 3.34 fps)

Summary for Pond 20.010:

Inflow Area = 0.486 ac, 35.64% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 3.10 cfs @ 12.14 hrs, Volume= 0.265 af
Outflow = 3.10 cfs @ 12.14 hrs, Volume= 0.265 af, Atten= 0%, Lag= 0.0 min
Primary = 3.10 cfs @ 12.14 hrs, Volume= 0.265 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 62.65' @ 12.14 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.01' / 60.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.46 cfs @ 12.14 hrs HW=62.61' TW=61.77' (Dynamic Tailwater)
↑**1=12" ADS** (Inlet Controls 3.46 cfs @ 4.41 fps)

Summary for Pond 21.010:

Inflow Area = 0.152 ac, 29.75% Impervious, Inflow Depth = 6.31" for 100-YEAR event
Inflow = 0.97 cfs @ 12.13 hrs, Volume= 0.080 af
Outflow = 0.97 cfs @ 12.13 hrs, Volume= 0.080 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.13 hrs, Volume= 0.080 af
Routed to Pond 21.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.20' @ 12.13 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	67.65'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 67.65' / 67.45' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.97 cfs @ 12.13 hrs HW=68.20' TW=67.38' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.97 cfs @ 3.19 fps)

Summary for Pond 21.020:

Inflow Area = 0.176 ac, 39.32% Impervious, Inflow Depth = 6.59" for 100-YEAR event
Inflow = 1.14 cfs @ 12.12 hrs, Volume= 0.096 af
Outflow = 1.14 cfs @ 12.12 hrs, Volume= 0.096 af, Atten= 0%, Lag= 0.0 min
Primary = 1.14 cfs @ 12.12 hrs, Volume= 0.096 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.38' @ 12.12 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.90'	**18.0" Round 18" ADS** L= 146.0' Ke= 0.500 Inlet / Outlet Invert= 66.90' / 58.60' S= 0.0568 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.14 cfs @ 12.12 hrs HW=67.38' TW=59.32' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 1.14 cfs @ 2.35 fps)

Summary for Pond 21.030:

Inflow Area = 1.256 ac, 31.78% Impervious, Inflow Depth = 6.34" for 100-YEAR event
Inflow = 7.59 cfs @ 12.13 hrs, Volume= 0.664 af
Outflow = 7.59 cfs @ 12.13 hrs, Volume= 0.664 af, Atten= 0%, Lag= 0.0 min
Primary = 7.59 cfs @ 12.13 hrs, Volume= 0.664 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 59.32' @ 12.13 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.10'	**24.0" Round 24" ADS** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 58.10' / 52.25' S= 0.0340 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=7.58 cfs @ 12.13 hrs HW=59.32' TW=54.65' (Dynamic Tailwater)
↑**1=24" ADS** (Inlet Controls 7.58 cfs @ 3.77 fps)

Summary for Pond 22.010:

Inflow Area = 1.633 ac, 5.30% Impervious, Inflow Depth = 5.59" for 100-YEAR event
Inflow = 9.47 cfs @ 12.13 hrs, Volume= 0.760 af
Outflow = 9.47 cfs @ 12.13 hrs, Volume= 0.760 af, Atten= 0%, Lag= 0.0 min
Primary = 9.47 cfs @ 12.13 hrs, Volume= 0.760 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.31' @ 12.13 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.01'	**24.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.01' / 57.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=11.29 cfs @ 12.13 hrs HW=68.31' TW=67.75' (Dynamic Tailwater)
↑**1=12" ADS** (Inlet Controls 11.29 cfs @ 3.59 fps)

Summary for Pond 23.010:

Inflow Area = 1.343 ac, 48.23% Impervious, Inflow Depth = 6.91" for 100-YEAR event
Inflow = 10.01 cfs @ 12.10 hrs, Volume= 0.774 af
Outflow = 10.01 cfs @ 12.10 hrs, Volume= 0.774 af, Atten= 0%, Lag= 0.0 min
Primary = 10.01 cfs @ 12.10 hrs, Volume= 0.774 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 72.41' @ 12.14 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.77'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.77' / 58.57' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.00 cfs @ 12.10 hrs HW=68.96' TW=69.87' (Dynamic Tailwater)
↑**1=24" ADS** (Controls 0.00 cfs)

Summary for Pond 24.010:

Inflow Area = 0.498 ac, 32.59% Impervious, Inflow Depth = 6.43" for 100-YEAR event
Inflow = 3.08 cfs @ 12.15 hrs, Volume= 0.267 af
Outflow = 3.08 cfs @ 12.15 hrs, Volume= 0.267 af, Atten= 0%, Lag= 0.0 min
Primary = 3.08 cfs @ 12.15 hrs, Volume= 0.267 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.17' @ 12.15 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 60.00' / 59.70' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.08 cfs @ 12.15 hrs HW=61.16' TW=60.17' (Dynamic Tailwater)
↑**1=12" ADS** (Inlet Controls 3.08 cfs @ 3.93 fps)

Summary for Pond 25.010:

Inflow Area = 0.111 ac,100.00% Impervious, Inflow Depth = 8.36" for 100-YEAR event
Inflow = 0.97 cfs @ 12.07 hrs, Volume= 0.077 af
Outflow = 0.97 cfs @ 12.07 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.07 hrs, Volume= 0.077 af
Routed to Pond 25.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.63' @ 12.13 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.90'	**12.0" Round 12" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 59.90' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.86 cfs @ 12.07 hrs HW=60.55' TW=60.39' (Dynamic Tailwater)
↑**1=12" ADS** (Outlet Controls 0.86 cfs @ 2.26 fps)

Summary for Pond 25.020:

Inflow Area = 1.081 ac, 30.56% Impervious, Inflow Depth = 6.30" for 100-YEAR event
Inflow = 6.46 cfs @ 12.14 hrs, Volume= 0.568 af
Outflow = 6.46 cfs @ 12.14 hrs, Volume= 0.568 af, Atten= 0%, Lag= 0.0 min
Primary = 6.46 cfs @ 12.14 hrs, Volume= 0.568 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.55' @ 12.14 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**18.0" Round 18" ADS** L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 58.60' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=6.45 cfs @ 12.14 hrs HW=60.55' TW=59.32' (Dynamic Tailwater)
↑**1=18" ADS** (Barrel Controls 6.45 cfs @ 5.19 fps)

Summary for Pond 26.010:

Inflow Area = 0.185 ac, 36.90% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 1.28 cfs @ 12.11 hrs, Volume= 0.101 af
Outflow = 1.28 cfs @ 12.11 hrs, Volume= 0.101 af, Atten= 0%, Lag= 0.0 min
Primary = 1.28 cfs @ 12.11 hrs, Volume= 0.101 af
Routed to Pond 26.015 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.84' @ 12.11 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.19' / 60.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.27 cfs @ 12.11 hrs HW=61.84' TW=61.31' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 1.27 cfs @ 3.37 fps)

Summary for Pond 26.015:

Inflow Area = 0.196 ac, 40.42% Impervious, Inflow Depth = 6.65" for 100-YEAR event
Inflow = 1.36 cfs @ 12.11 hrs, Volume= 0.109 af
Outflow = 1.36 cfs @ 12.11 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.36 cfs @ 12.11 hrs, Volume= 0.109 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.31' @ 12.12 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.74'	**18.0" Round 18" ADS** L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 60.74' / 59.25' S= 0.0080 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.34 cfs @ 12.11 hrs HW=61.31' TW=60.20' (Dynamic Tailwater)
↑**1=18" ADS** (Outlet Controls 1.34 cfs @ 3.27 fps)

Summary for Pond 26.020:

Inflow Area = 0.739 ac, 38.72% Impervious, Inflow Depth = 6.61" for 100-YEAR event
Inflow = 4.66 cfs @ 12.13 hrs, Volume= 0.407 af
Outflow = 4.66 cfs @ 12.13 hrs, Volume= 0.407 af, Atten= 0%, Lag= 0.0 min
Primary = 4.66 cfs @ 12.13 hrs, Volume= 0.407 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.21' @ 12.13 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.00'	**18.0" Round 18" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 59.00' / 57.65' S= 0.0090 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=4.73 cfs @ 12.13 hrs HW=60.21' TW=59.23' (Dynamic Tailwater)
↑**1=18" ADS** (Outlet Controls 4.73 cfs @ 4.23 fps)

Summary for Pond 26.030:

Inflow Area = 1.371 ac, 40.34% Impervious, Inflow Depth = 6.63" for 100-YEAR event
Inflow = 9.01 cfs @ 12.11 hrs, Volume= 0.758 af
Outflow = 9.01 cfs @ 12.11 hrs, Volume= 0.758 af, Atten= 0%, Lag= 0.0 min
Primary = 9.01 cfs @ 12.11 hrs, Volume= 0.758 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 59.27' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**18.0" Round 18" ADS** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.75' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=9.01 cfs @ 12.11 hrs HW=59.27' TW=58.14' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 9.01 cfs @ 5.10 fps)

Summary for Pond 26.040:

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 6.67" for 100-YEAR event
Inflow = 15.94 cfs @ 12.11 hrs, Volume= 1.346 af
Outflow = 15.94 cfs @ 12.11 hrs, Volume= 1.346 af, Atten= 0%, Lag= 0.0 min
Primary = 15.94 cfs @ 12.11 hrs, Volume= 1.346 af
Routed to Pond 26.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.15' @ 12.12 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.75'	**24.0" Round 24" ADS** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 55.75' / 54.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=15.85 cfs @ 12.11 hrs HW=58.14' TW=57.05' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 15.85 cfs @ 5.05 fps)

Summary for Pond 26.050: Diversion

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 6.67" for 100-YEAR event
Inflow = 15.94 cfs @ 12.11 hrs, Volume= 1.346 af
Outflow = 15.94 cfs @ 12.11 hrs, Volume= 1.346 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 12.11 hrs, Volume= 0.809 af
Routed to Pond 26.060 : HS
Secondary = 14.03 cfs @ 12.11 hrs, Volume= 0.537 af
Routed to Pond P204A-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.05' @ 12.11 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	**8.0" Round 8" ADS to P204A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 54.50' / 54.40' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf
#2	Secondary	55.20'	**24.0" Round 24" ADS** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 55.20' / 52.00' S= 0.0457 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.90 cfs @ 12.11 hrs HW=57.05' TW=55.77' (Dynamic Tailwater)
↑—**1=8" ADS to P204A-SF Separator** (Inlet Controls 1.90 cfs @ 5.45 fps)

Secondary OutFlow Max=14.01 cfs @ 12.11 hrs HW=57.05' TW=48.87' (Dynamic Tailwater)
↑—**2=24" ADS** (Inlet Controls 14.01 cfs @ 4.63 fps)

Summary for Pond 26.060: HS

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 4.01" for 100-YEAR event
Inflow = 1.90 cfs @ 12.11 hrs, Volume= 0.809 af
Outflow = 1.90 cfs @ 12.11 hrs, Volume= 0.809 af, Atten= 0%, Lag= 0.0 min
Primary = 1.90 cfs @ 12.11 hrs, Volume= 0.809 af
Routed to Pond P204A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.77' @ 12.11 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.15'	**8.0" Round 8" ADS** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 54.15' / 52.00' S= 0.0244 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf

Primary OutFlow Max=1.90 cfs @ 12.11 hrs HW=55.77' TW=51.47' (Dynamic Tailwater)
1=8" ADS (Inlet Controls 1.90 cfs @ 5.45 fps)

Summary for Pond 27.010:

Inflow Area = 0.524 ac, 30.28% Impervious, Inflow Depth = 6.31" for 100-YEAR event
Inflow = 3.61 cfs @ 12.10 hrs, Volume= 0.276 af
Outflow = 3.61 cfs @ 12.10 hrs, Volume= 0.276 af, Atten= 0%, Lag= 0.0 min
Primary = 3.61 cfs @ 12.10 hrs, Volume= 0.276 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.17' @ 12.11 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.63'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.63' / 58.15' S= 0.0240 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.55 cfs @ 12.10 hrs HW=60.15' TW=59.26' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 3.55 cfs @ 4.52 fps)

Summary for Pond 28.010:

Inflow Area = 0.462 ac, 35.44% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 2.96 cfs @ 12.14 hrs, Volume= 0.252 af
Outflow = 2.96 cfs @ 12.14 hrs, Volume= 0.252 af, Atten= 0%, Lag= 0.0 min
Primary = 2.96 cfs @ 12.14 hrs, Volume= 0.252 af
Routed to Pond 28.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.29' @ 12.14 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.12'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.12' / 65.92' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=2.96 cfs @ 12.14 hrs HW=67.28' TW=66.26' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 2.96 cfs @ 4.06 fps)

Summary for Pond 28.020:

Inflow Area = 0.503 ac, 40.68% Impervious, Inflow Depth = 6.70" for 100-YEAR event
Inflow = 3.22 cfs @ 12.14 hrs, Volume= 0.281 af
Outflow = 3.22 cfs @ 12.14 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.0 min
Primary = 3.22 cfs @ 12.14 hrs, Volume= 0.281 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.27' @ 12.14 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.42'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 65.42' / 61.43' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.21 cfs @ 12.14 hrs HW=66.27' TW=62.57' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.21 cfs @ 3.13 fps)

Summary for Pond 28.030:

Inflow Area = 1.049 ac, 42.18% Impervious, Inflow Depth = 6.73" for 100-YEAR event
Inflow = 6.94 cfs @ 12.12 hrs, Volume= 0.588 af
Outflow = 6.94 cfs @ 12.12 hrs, Volume= 0.588 af, Atten= 0%, Lag= 0.0 min
Primary = 6.94 cfs @ 12.12 hrs, Volume= 0.588 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.59' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.18'	**18.0" Round 18" ADS** L= 138.0' Ke= 0.500 Inlet / Outlet Invert= 61.18' / 56.75' S= 0.0321 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=6.94 cfs @ 12.12 hrs HW=62.59' TW=58.15' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 6.94 cfs @ 4.04 fps)

Summary for Pond 29.010:

Inflow Area = 0.486 ac, 36.65% Impervious, Inflow Depth = 6.55" for 100-YEAR event
Inflow = 3.33 cfs @ 12.12 hrs, Volume= 0.265 af
Outflow = 3.33 cfs @ 12.12 hrs, Volume= 0.265 af, Atten= 0%, Lag= 0.0 min
Primary = 3.33 cfs @ 12.12 hrs, Volume= 0.265 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 63.50' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	62.13'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 62.13' / 61.93' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=3.32 cfs @ 12.12 hrs HW=63.50' TW=62.58' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 3.32 cfs @ 4.23 fps)

Summary for Pond P201-DT: DETENTION

Inflow Area = 10.168 ac, 41.40% Impervious, Inflow Depth = 5.54" for 100-YEAR event
Inflow = 66.28 cfs @ 12.10 hrs, Volume= 4.697 af
Outflow = 34.45 cfs @ 12.29 hrs, Volume= 4.697 af, Atten= 48%, Lag= 11.3 min
Discarded = 0.15 cfs @ 12.29 hrs, Volume= 0.295 af
Primary = 34.30 cfs @ 12.29 hrs, Volume= 4.402 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.09' @ 12.29 hrs Surf.Area= 24,038 sf Storage= 64,412 cf
Flood Elev= 52.00' Surf.Area= 26,017 sf Storage= 87,081 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 130.2 min (921.2 - 791.0)

Volume	Invert	Avail.Storage	Storage Description
#1	48.00'	87,081 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
48.00	17,686	0	0
49.00	19,670	18,678	18,678
50.00	21,727	20,699	39,377
51.00	23,832	22,780	62,156
52.00	26,017	24,925	87,081

Device	Routing	Invert	Outlet Devices
#1	Discarded	48.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**18.0" Round 18" ADS x2 X 2.00** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Device 2	47.00'	**3.0" Vert. 3" Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 2	49.00'	**48.0" W x 24.0" H Vert. 2'H X 4'W Opening with trash rack** C= 0.600 Limited to weir flow at low heads
#5	Primary	51.00'	**12.0' long x 15.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.15 cfs @ 12.29 hrs HW=51.09' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.15 cfs)

Primary OutFlow Max=34.29 cfs @ 12.29 hrs HW=51.09' TW=0.00' (Dynamic Tailwater)
└**2=18" ADS x2** (Inlet Controls 33.37 cfs @ 9.44 fps)
└**3=3" Orifice** (Passes < 0.47 cfs potential flow)
└**4=2'H X 4'W Opening with trash rack** (Passes < 38.54 cfs potential flow)
└**5=Broad-Crested Rectangular Weir** (Weir Controls 0.93 cfs @ 0.82 fps)

Summary for Pond P201-SF: FILTER (LINED)

Inflow Area = 9.349 ac, 38.64% Impervious, Inflow Depth = 4.64" for 100-YEAR event
Inflow = 17.89 cfs @ 12.09 hrs, Volume= 3.618 af
Outflow = 16.51 cfs @ 12.13 hrs, Volume= 3.618 af, Atten= 8%, Lag= 2.5 min
Primary = 16.03 cfs @ 12.13 hrs, Volume= 2.676 af
Routed to Pond P201-DT : DETENTION
Secondary = 0.48 cfs @ 12.13 hrs, Volume= 0.942 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.28' @ 12.13 hrs Surf.Area= 14,254 sf Storage= 16,640 cf
Flood Elev= 52.00' Surf.Area= 14,955 sf Storage= 22,465 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 94.9 min (912.4 - 817.5)

Volume	Invert	Avail.Storage	Storage Description
#1	46.50'	7,508 cf	**Media (Prismatic)** Listed below (Recalc) 22,750 cf Overall x 33.0% Voids
#2	50.00'	14,958 cf	**Sand Filer Ponding (Prismatic)** Listed below (Recalc)
		22,465 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.50	6,500	0	0
50.00	6,500	22,750	22,750

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	6,500	0	0
51.00	7,480	6,990	6,990
52.00	8,455	7,968	14,958

Device	Routing	Invert	Outlet Devices
#1	Secondary	46.25'	**4.0" Round 4" Underdrain** L= 142.0' Ke= 0.500 Inlet / Outlet Invert= 46.25' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	46.50'	**8.270 in/hr Exfiltration over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=15.93 cfs @ 12.13 hrs HW=51.28' TW=50.74' (Dynamic Tailwater)
└**3=Overflow weir** (Weir Controls 15.93 cfs @ 2.42 fps)

Secondary OutFlow Max=0.48 cfs @ 12.13 hrs HW=51.28' TW=0.00' (Dynamic Tailwater)
└**1=4" Underdrain** (Barrel Controls 0.48 cfs @ 5.45 fps)
└**2=Exfiltration** (Passes 0.48 cfs of 2.73 cfs potential flow)

Summary for Pond P202-DT: DETENTION (LINED)

Inflow Area = 1.683 ac, 37.75% Impervious, Inflow Depth = 19.85" for 100-YEAR event
Inflow = 57.54 cfs @ 12.11 hrs, Volume= 2.784 af
Outflow = 33.28 cfs @ 12.25 hrs, Volume= 2.785 af, Atten= 42%, Lag= 8.5 min
Primary = 33.28 cfs @ 12.25 hrs, Volume= 2.785 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 49.58' @ 12.25 hrs Surf.Area= 16,310 sf Storage= 45,749 cf
Flood Elev= 50.00' Surf.Area= 17,157 sf Storage= 52,695 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 179.3 min (937.4 - 758.1)

Volume	Invert	Avail.Storage	Storage Description
#1	46.00'	52,695 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	9,382	0	0
48.00	13,078	22,460	22,460
50.00	17,157	30,235	52,695

Device	Routing	Invert	Outlet Devices
#1	Primary	45.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 45.50' / 45.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	45.50'	**2.3" Vert. 2.3" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	47.25'	**18.0" x 18.0" Horiz. 18" Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	48.50'	**90.0 deg x 4.5' long x 1.50' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=33.27 cfs @ 12.25 hrs HW=49.58' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS X 2** (Inlet Controls 14.32 cfs @ 9.12 fps)
  - **2=2.3" Orifice** (Passes < 0.28 cfs potential flow)
  - **3=18" Grate** (Passes < 16.55 cfs potential flow)
- **4=Overflow Weir** (Weir Controls 18.95 cfs @ 3.13 fps)

Summary for Pond P202A-SF: FILTER (LINED)

Inflow Area = 10.304 ac, 28.69% Impervious, Inflow Depth = 4.13" for 100-YEAR event
Inflow = 21.60 cfs @ 12.10 hrs, Volume= 3.547 af
Outflow = 15.70 cfs @ 12.20 hrs, Volume= 3.525 af, Atten= 27%, Lag= 5.8 min
Primary = 15.70 cfs @ 12.20 hrs, Volume= 3.525 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.65' @ 12.20 hrs Surf.Area= 12,659 sf Storage= 16,008 cf
Flood Elev= 48.00' Surf.Area= 12,965 sf Storage= 18,509 cf

Plug-Flow detention time= 46.9 min calculated for 3.525 af (99% of inflow)
Center-of-Mass det. time= 43.2 min (874.1 - 831.0)

Volume	Invert	Avail.Storage	Storage Description
#1	43.00'	5,544 cf	**Media (Prismatic)** Listed below (Recalc) 16,800 cf Overall x 33.0% Voids
#2	46.00'	12,965 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,509 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
43.00	5,600	0	0
46.00	5,600	16,800	16,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	5,600	0	0
48.00	7,365	12,965	12,965

Device	Routing	Invert	Outlet Devices
#1	Primary	43.50'	**18.0" Round 18" ADS** L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 43.50' / 43.25' S= 0.0071 '/' Cc= 0.900 n= 0.010, Flow Area= 1.77 sf
#2	Device 1	43.00'	**8.270 in/hr Media Transport over Surface area**
#3	Device 1	46.66'	**24.0" Horiz. 24" Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=15.70 cfs @ 12.20 hrs HW=47.65' TW=0.00' (Dynamic Tailwater)
- **1=18" ADS** (Inlet Controls 15.70 cfs @ 8.88 fps)
  - **2=Media Transport** (Passes < 2.42 cfs potential flow)
  - **3=24" Grate** (Passes < 15.07 cfs potential flow)

Summary for Pond P202B-SF: FILTER (LINED)

Inflow Area = 1.046 ac, 23.10% Impervious, Inflow Depth = 6.19" for 100-YEAR event
Inflow = 7.29 cfs @ 12.09 hrs, Volume= 0.540 af
Outflow = 7.20 cfs @ 12.11 hrs, Volume= 0.540 af, Atten= 1%, Lag= 0.8 min
Primary = 7.20 cfs @ 12.11 hrs, Volume= 0.540 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.02' @ 12.11 hrs Surf.Area= 1,984 sf Storage= 1,521 cf
Flood Elev= 52.00' Surf.Area= 2,701 sf Storage= 3,214 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 25.2 min (826.0 - 800.8)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	513 cf	**Media (Prismatic)** Listed below (Recalc) 1,555 cf Overall x 33.0% Voids
#2	50.00'	2,701 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		3,214 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	622	0	0
50.00	622	1,555	1,555

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	622	0	0
52.00	2,079	2,701	2,701

Device	Routing	Invert	Outlet Devices
#1	Primary	47.25'	**4.0" Round 4" PVC** L= 25.0' Ke= 0.500 Inlet / Outlet Invert= 47.25' / 47.00' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	47.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=7.19 cfs @ 12.11 hrs HW=51.02' TW=48.98' (Dynamic Tailwater)
- **1=4" PVC** (Passes 0.38 cfs of 0.53 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 0.38 cfs)
- **3=Overflow Weir** (Weir Controls 6.81 cfs @ 1.85 fps)

Summary for Pond P203-DT: DETENTION (LINED)

Inflow Area = 8.528 ac, 29.10% Impervious, Inflow Depth = 5.20" for 100-YEAR event
Inflow = 48.38 cfs @ 12.10 hrs, Volume= 3.695 af
Outflow = 39.63 cfs @ 12.19 hrs, Volume= 3.695 af, Atten= 18%, Lag= 5.1 min
Primary = 39.63 cfs @ 12.19 hrs, Volume= 3.695 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.62' @ 12.19 hrs Surf.Area= 14,336 sf Storage= 25,848 cf
Flood Elev= 54.00' Surf.Area= 15,076 sf Storage= 31,412 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 74.1 min (861.8 - 787.7)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	31,412 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	9,373	0	0
52.00	11,214	5,147	5,147
53.00	13,120	12,167	17,314
54.00	15,076	14,098	31,412

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	**12.0" Round 12" ADS** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 50.50' / 50.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	50.50'	**2.4" Vert. 2.4" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	52.35'	**18.0" Horiz. 18" Inlet** C= 0.600 Limited to weir flow at low heads
#4	Primary	52.30'	**90.0 deg x 6.0' long x 1.70' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=39.62 cfs @ 12.19 hrs HW=53.62' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS** (Inlet Controls 6.12 cfs @ 7.80 fps)
  - **2=2.4" Orifice** (Passes < 0.26 cfs potential flow)
  - **3=18" Inlet** (Passes < 9.59 cfs potential flow)
- **4=Overflow Weir** (Weir Controls 33.50 cfs @ 3.46 fps)

Summary for Pond P203-FB: FOREBAY (LINED)

Inflow Area = 0.902 ac, 2.22% Impervious, Inflow Depth = 6.43" for 100-YEAR event
Inflow = 6.86 cfs @ 12.07 hrs, Volume= 0.484 af
Outflow = 5.87 cfs @ 12.07 hrs, Volume= 0.465 af, Atten= 14%, Lag= 0.0 min
Primary = 5.87 cfs @ 12.07 hrs, Volume= 0.465 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.69' @ 12.21 hrs Surf.Area= 1,112 sf Storage= 1,798 cf
Flood Elev= 54.00' Surf.Area= 1,220 sf Storage= 2,160 cf

Plug-Flow detention time= 40.3 min calculated for 0.465 af (96% of inflow)
Center-of-Mass det. time= 17.6 min (812.2 - 794.6)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	2,160 cf	**Sediment Forebay (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	200	0	0
52.00	578	389	389
53.00	872	725	1,114
54.00	1,220	1,046	2,160

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	**90.0 deg x 15.0' long x 1.35' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 12.07 hrs HW=53.40' TW=53.43' (Dynamic Tailwater)
- **1=Overflow weir** (Controls 0.00 cfs)

Summary for Pond P203-SF: FILTER (LINED)

Inflow Area = 6.925 ac, 25.88% Impervious, Inflow Depth = 4.79" for 100-YEAR event
Inflow = 21.86 cfs @ 12.08 hrs, Volume= 2.762 af
Outflow = 14.30 cfs @ 12.26 hrs, Volume= 2.762 af, Atten= 35%, Lag= 10.6 min
Primary = 13.77 cfs @ 12.26 hrs, Volume= 1.920 af
Routed to Pond P203-DT : DETENTION (LINED)
Secondary = 0.53 cfs @ 12.20 hrs, Volume= 0.842 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.69' @ 12.20 hrs Surf.Area= 13,834 sf Storage= 16,040 cf
Flood Elev= 54.00' Surf.Area= 14,437 sf Storage= 18,797 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 77.9 min (898.8 - 820.9)

Volume	Invert	Avail.Storage	Storage Description
#1	49.50'	4,388 cf	**Media (Prismatic)** Listed below (Recalc) 13,298 cf Overall x 33.0% Voids
#2	52.00'	14,409 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,797 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
49.50	5,319	0	0
52.00	5,319	13,298	13,298

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,319	0	0
53.00	7,190	6,255	6,255
54.00	9,118	8,154	14,409

Device	Routing	Invert	Outlet Devices
#1	Secondary	49.25'	**4.0" Round 4" PVC** L= 87.0' Ke= 0.500 Inlet / Outlet Invert= 49.25' / 48.50' S= 0.0086 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	49.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	52.66'	**90.0 deg x 10.0' long x 1.33' rise Sharp-Crested Vee/Trap Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=14.65 cfs @ 12.26 hrs HW=53.66' TW=53.57' (Dynamic Tailwater)
└**3=Sharp-Crested Vee/Trap Weir** (Weir Controls 14.65 cfs @ 1.33 fps)

Secondary OutFlow Max=0.53 cfs @ 12.20 hrs HW=53.69' TW=0.00' (Dynamic Tailwater)
└**1=4" PVC** (Barrel Controls 0.53 cfs @ 6.07 fps)
└**2=Media Transport** (Passes 0.53 cfs of 2.65 cfs potential flow)

Summary for Pond P204A-DT: DETENTION

Inflow Area = 6.595 ac, 33.52% Impervious, Inflow Depth = 4.15" for 100-YEAR event
Inflow = 41.43 cfs @ 12.13 hrs, Volume= 2.279 af
Outflow = 18.25 cfs @ 12.37 hrs, Volume= 2.279 af, Atten= 56%, Lag= 14.6 min
Discarded = 0.12 cfs @ 12.37 hrs, Volume= 0.164 af
Primary = 18.13 cfs @ 12.37 hrs, Volume= 2.115 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 49.61' @ 12.37 hrs Surf.Area= 19,211 sf Storage= 40,518 cf
Flood Elev= 50.00' Surf.Area= 20,313 sf Storage= 48,163 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 87.0 min (843.7 - 756.7)

Volume	Invert	Avail.Storage	Storage Description
#1	47.00'	48,163 cf	**Detention Area (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.00	11,852	0	0
48.00	14,616	13,234	13,234
50.00	20,313	34,929	48,163

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#3	Device 2	47.50'	**30.0" W x 12.0" H Vert. 30"W X 12"H GRATE** C= 0.600 Limited to weir flow at low heads
#4	Device 2	46.50'	**2.1" Vert. 2.1" ORIFICE** C= 0.600 Limited to weir flow at low heads
#5	Primary	49.25'	**10.0' long x 15.0' breadth Riprap Spillway** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.12 cfs @ 12.37 hrs HW=49.61' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.12 cfs)

Primary OutFlow Max=18.13 cfs @ 12.37 hrs HW=49.61' TW=0.00' (Dynamic Tailwater)
├**2=12" ADS X 2** (Inlet Controls 12.23 cfs @ 7.78 fps)
│ ├**3=30"W X 12"H GRATE** (Passes < 15.23 cfs potential flow)
│ └**4=2.1" ORIFICE** (Passes < 0.20 cfs potential flow)
└**5=Riprap Spillway** (Weir Controls 5.90 cfs @ 1.62 fps)

Summary for Pond P204A-SF: FILTER (LINED)

Inflow Area = 3.971 ac, 35.06% Impervious, Inflow Depth = 4.86" for 100-YEAR event
Inflow = 12.11 cfs @ 12.11 hrs, Volume= 1.609 af
Outflow = 11.70 cfs @ 12.14 hrs, Volume= 1.609 af, Atten= 3%, Lag= 1.6 min
Primary = 11.06 cfs @ 12.14 hrs, Volume= 0.817 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.64 cfs @ 12.14 hrs, Volume= 0.792 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.49' @ 12.14 hrs Surf.Area= 5,911 sf Storage= 5,394 cf
Flood Elev= 52.00' Surf.Area= 6,383 sf Storage= 7,262 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 41.8 min (857.5 - 815.6)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	2,475 cf	**Media (Prismatic)** Listed below (Recalc) 7,500 cf Overall x 33.0% Voids
#2	50.50'	4,787 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		7,262 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	2,500	0	0
50.50	2,500	7,500	7,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.50	2,500	0	0
52.00	3,883	4,787	4,787

Device	Routing	Invert	Outlet Devices
#1	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**
#2	Secondary	47.00'	**4.0" Round 4" PVC** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 47.00' / 46.50' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Primary	51.00'	**90.0 deg x 10.0' long x 1.00' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=11.05 cfs @ 12.14 hrs HW=51.49' TW=49.04' (Dynamic Tailwater)
└**3=Overflow weir** (Weir Controls 11.05 cfs @ 2.16 fps)

Secondary OutFlow Max=0.64 cfs @ 12.14 hrs HW=51.49' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Barrel Controls 0.64 cfs @ 7.37 fps)
└**1=Media Transport** (Passes 0.64 cfs of 1.13 cfs potential flow)

Summary for Pond P204B-SF: FILTER (LINED)

Inflow Area = 1.883 ac, 19.82% Impervious, Inflow Depth = 6.07" for 100-YEAR event
Inflow = 12.15 cfs @ 12.12 hrs, Volume= 0.952 af
Outflow = 11.79 cfs @ 12.14 hrs, Volume= 0.952 af, Atten= 3%, Lag= 1.4 min
Primary = 11.27 cfs @ 12.14 hrs, Volume= 0.483 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.52 cfs @ 12.14 hrs, Volume= 0.469 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.15' @ 12.14 hrs Surf.Area= 4,347 sf Storage= 3,621 cf
Flood Elev= 52.00' Surf.Area= 5,555 sf Storage= 6,669 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 28.3 min (833.0 - 804.7)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	1,114 cf	**Media (Prismatic)** Listed below (Recalc) 3,375 cf Overall x 33.0% Voids
#2	50.00'	5,555 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		6,669 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	1,350	0	0
50.00	1,350	3,375	3,375

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	1,350	0	0
52.00	4,205	5,555	5,555

Device	Routing	Invert	Outlet Devices
#1	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)
#2	Secondary	46.00'	**4.0" Round 4" PVC** L= 113.0' Ke= 0.500 Inlet / Outlet Invert= 46.00' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**

Primary OutFlow Max=11.27 cfs @ 12.14 hrs HW=51.15' TW=49.03' (Dynamic Tailwater)
└**1=Overflow weir** (Weir Controls 11.27 cfs @ 2.18 fps)

Secondary OutFlow Max=0.52 cfs @ 12.14 hrs HW=51.15' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Barrel Controls 0.52 cfs @ 5.95 fps)
└**3=Media Transport** (Passes 0.52 cfs of 0.83 cfs potential flow)

Summary for Link DP1-PR: Wetlands

Inflow Area = 26.211 ac, 29.76% Impervious, Inflow Depth = 6.56" for 100-YEAR event
Inflow = 112.48 cfs @ 12.17 hrs, Volume= 14.329 af
Primary = 112.48 cfs @ 12.17 hrs, Volume= 14.329 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-PR: Western Abutters

Inflow Area = 21.950 ac, 27.83% Impervious, Inflow Depth = 5.72" for 100-YEAR event
Inflow = 75.69 cfs @ 12.26 hrs, Volume= 10.461 af
Primary = 75.69 cfs @ 12.26 hrs, Volume= 10.461 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

APPENDIX E SUPPLEMENTARY CALCULATIONS

Northeast Engineers & Consultants, Inc.

P201-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	2.015	ac			
Club House & Pool =	0.102	ac			
Residences =	0.661	ac			
Driveways =	0.444	ac			
Tennis Courts =	0.331	ac			
Assisted Living =	0.166	ac			
Impervious Area:	3.719	ac	**WQ_R:**	13,500	cf
	162,000	**sf**	**$WQ_{75\%}$:**	10,125	cf

A =	Surface area of filter bed (ft^2)	6,500	ft^2
d_f =	Filter bed depth (ft)	2.5	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

6,500 X 2.5 X 33% = **5,363 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	5,363	cf
A =	Surface area of filter bed (ft^2)	6,500	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.66	ft

Total Storage provided by this BMP:

$$\mathbf{WQ_V} = V_M + (A \times d_M \times V_R) + (A \times h_o) = \mathbf{10,189}\ \text{cf}$$

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f = 0.50 days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_{V)} \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,	**WQ_V =**	Total Required Water Quality Volume	13,500	cf
	d_f =	Filter bed depth (ft)	2.5	ft
	k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
	h_f =	Average height of water above surface of media	0.455	ft
	t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = 6,526 sf

A = 6,500 sf Area exceeds minimum required.

Northeast Engineers
& Consultants, Inc.

P201-DT: Detention Basin

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Channel Protection Calculations:

Volume of 1-Year Storm Runoff (From HydroCAD) $\mathbf{Vol_{1\text{-}YEAR}}$ **0.491 af**
21,388 cf

$$\mathbf{A = Q / (Cd(2gh)^{1/2})}$$

Where:

A = Area of outlet (ft^2)
Q= $\mathbf{Vol_{1\text{-}YEAR}}$ / 129,600 cfs **= 0.165 cfs**
g = 32.2 (ft/s^2)
h = (**z** - 0.5*($\mathbf{D_{ASSUME}}$)) / 2 **= 0.513 ft.**
Cd = 0.6

Where:

z = depth of basin that contains $\mathbf{Vol_{1\text{-}YEAR}}$ **= 1.15 ft**
$\mathbf{D_{ASSUME}}$ **=** Assumed diameter of outlet = **3.0 in.**

A = 0.0479 ft^2
$\mathbf{D_{FINAL}}$ **= 3.0 in.**

Northeast Engineers & Consultants, Inc.

P202A-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.984	ac			
Assisted Living =	0.166	ac			
Residences =	0.868	ac			
Driveways =	0.518	ac			
Impervious Area:	2.536	ac			
	110,468	sf	**WQ_R:**	9,206	cf
			$WQ_{75\%}$:	6,904	cf

A =	Surface area of filter bed (ft^2)	5,660	ft^2
d_f =	Filter bed depth (ft)	1.5	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

5,660 X 1.5 X 33% = **2,802 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	2,802	cf
A =	Surface area of filter bed (ft^2)	5,660	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.66	ft

Total Storage provided by this BMP:

WQ_V = $V_M + (A \times d_M \times V_R) + (A \times h_o)$ = **7,004** cf

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f =		0.50	days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_V) \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where, **WQ_V =**	Total Required Water Quality Volume	9,206	cf
d_f =	Filter bed depth (ft)	1.5	ft
k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
h_f =	Average height of water above surface of media	0.455	ft
t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = 4,036 sf

A = 5,660 sf Area exceeds minimum required.

Northeast Engineers & Consultants, Inc.

P202B-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.000	ac			
Residences =	0.165	ac			
Driveways =	0.063	ac			
Impervious Area:	0.228	ac			
	9,932	sf	**WQ_R:**	828	cf
			$WQ_{75\%}$:	621	cf

A =	Surface area of filter bed (ft^2)	622	ft^2
d_f =	Filter bed depth (ft)	1.5	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

622 X 1.5 X 33% = **308 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	308	cf
A =	Surface area of filter bed (ft^2)	622	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.50	ft

Total Storage provided by this BMP:

WQ_V = $V_M + (A \times d_M \times V_R) + (A \times h_o)$ = **670** cf

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f = 0.50 days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_{V)} \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,	**WQ_V =**	Total Required Water Quality Volume	828	cf
	d_f =	Filter bed depth (ft)	1.5	ft
	k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
	h_f =	Average height of water above surface of media	0.375	ft
	t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = 378 sf

A = 622 sf Area exceeds minimum required.

Northeast Engineers
& Consultants, Inc.

P202-DT: Detention Basin (Lined)

Project: 10068.0 Prescott Point, Portsmouth Rhode Island

Provided Channel Protection Calculations:

Volume of 1-Year Storm Runoff (From HydroCAD) $\mathbf{Vol_{1\text{-}YEAR}}$ **0.318 af**
13,852 cf

$$\mathbf{A = Q / (Cd(2gh)^{1/2})}$$

Where:

A = Area of outlet (ft^2)
Q= $\mathbf{Vol_{1\text{-}YEAR}}$ / 129,600 cfs **=** **0.107 cfs**
g = 32.2 (ft/s^2)
h = (**z** - 0.5*($\mathbf{D_{ASSUME}}$)) / 2 **=** **0.602 ft.**
Cd = 0.6

Where:

z = depth of basin that contains $\mathbf{Vol_{1\text{-}YEAR}}$ **=** **1.30 ft**
$\mathbf{D_{ASSUME}}$ **=** Assumed diameter of outlet = **2.3 in.**

A = **0.0286 ft^2**
$\mathbf{D_{FINAL}}$ **=** **2.3 in.**

Northeast Engineers & Consultants, Inc.

P203-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.565	ac			
Gravel Parking =	0.439	ac			
Residences =	0.826	ac			
Driveways =	0.259	ac			
Impervious Area:	2.089	ac			
	90,997	sf	**WQ_R:**	7,583	cf
			$WQ_{75\%}$:	5,687	cf

A =	Surface area of filter bed (ft^2)	5,319	ft^2
d_f =	Filter bed depth (ft)	1.5	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

5,319 X 1.5 X 33% = **2,633 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	2,633	cf
A =	Surface area of filter bed (ft^2)	5,319	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.66	ft

Total Storage provided by this BMP:

WQ_V = $V_M + (A \times d_M \times V_R) + (A \times h_o)$ = **6,582** cf

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f =	0.50	days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_V) \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,

WQ_V =	Total Required Water Quality Volume	7,583 cf
d_f =	Filter bed depth (ft)	1.5 ft
k =	Coefficient of permeability of filter media (ft/day)	3.5 ft/day
h_f =	Average height of water above surface of media	0.455 ft
t_f =	Design filter bed drain time (days)	0.50

Therefore, the minimum surface areas is:

A_R = 3,325 sf

A = 5,319 sf Area exceeds minimum required.

Northeast Engineers
& Consultants, Inc.

P203-FB: Sand Filter Forebay

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Impervious Area: 0 sf WQ_R: 0 cf

Per the RISDISM, the pretreatment must accommodate 25% of the WQ volume.

WQ_{PRE} = 0 X 25% = **0 cf**

Pre-treatment is provided in part by a sediment forebay:

A_1 =	Bottom area of forebay (ft^2)	**578 ft^2**
A_2=	Surface area of forebay at outlet (ft^2)	**870 ft^2**
h_o =	storage height below weir	**0.65 ft**

Total storage provided by this pre-treatment device:

WQ_{V1} = (A1+A2)/2 X h_o = **471** cf

Pre-treatment is provided in part by deep sump catch basins:

A =	Area of 4' dia. catch basin sump	**12.57 ft^2**
h_o =	depth of sump	**4.00 ft**

Total storage provided by this pre-treatment device:

WQ_V = A X h_o = **50.28** cf

A total of 0 catch basins in an offline configuration are provided

WQ_{V2} = **50** X **0** = **0 cf**

Therefore, the total pre-treatment volume is:

WQ_V = WQ_{V1} + WQ_{V2} = **471 cf**

Sediment Forebay Minimum Area Calculations:

$A_S = -(Q/W)*\ln(1-E)$

where:

Q =	discharge from drainage area in ft^3/s*	=	**0.14 cfs**
W =	particle settling velocity in ft/s	=	**0.0004 ft/s**
E =	sediment removal efficency	=	**90%**
A_S =	required sedimentation surface area in ft^2	=	**806 ft^2**

* Taken from HydroCAD analysis of the water quality storm event (split pervious)

A_P = provided sedimentation surface area in ft^2 = **870 ft^2**

Northeast Engineers
& Consultants, Inc.

P203-DT: Detention Basin (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Channel Protection Calculations:

Volume of 1-Year Storm Runoff (From HydroCAD) $\mathbf{Vol_{1\text{-}YEAR}}$ **0.335 af**
14,593 cf

$$\mathbf{A = Q / (Cd(2gh)^{1/2})}$$

Where:

A = Area of outlet (ft^2)
Q= $\mathbf{Vol_{1\text{-}YEAR}}$ / 129,600 cfs **= 0.113 cfs**
g = 32.2 (ft/s^2)
h = (**z** - 0.5*($\mathbf{D_{ASSUME}}$)) / 2 **= 0.585 ft.**
Cd = 0.6

Where:

z = depth of basin that contains $\mathbf{Vol_{1\text{-}YEAR}}$ **= 1.27 ft**
$\mathbf{D_{ASSUME}}$ **=** Assumed diameter of outlet = **2.4 in.**

A = 0.0306 ft^2
$\mathbf{D_{FINAL}}$ **= 2.4 in.**

Northeast Engineers & Consultants, Inc.

P204A-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.520	ac			
Residences =	0.537	ac			
Driveways =	0.224	ac			
Impervious Area:	1.281	ac			
	55,800	sf	**WQ_R:**	4,650	cf
			$WQ_{75\%}$:	3,488	cf

A =	Surface area of filter bed (ft^2)	2,500	ft^2
d_f =	Filter bed depth (ft)	2	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

2,500 X 2 X 33% = **1,650 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	1,650	cf
V_P =	volume of pretreatment	400	cf
A =	Surface area of filter bed (ft^2)	2,500	ft^2
d_M =	depth of mulch	0.33	ft
h_o =	storage height below outlet	0.50	ft

Total Storage provided:

WQ_V = $V_M + V_P + (A \times d_M \times V_R) + (A \times h_o)$ **3,572** cf

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f = 0.50 days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_V) \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,

WQ_V =	Total Required Water Quality Volume	4,650	cf
d_f =	Filter bed depth (ft)	2	ft
k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
h_f =	Average height of water above surface of media	0.415	ft
t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = 2,201 sf

A = 2,500 sf Area exceeds minimum required.

Northeast Engineers & Consultants, Inc.

P204B-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.000	ac			
Residences =	0.248	ac			
Driveways =	0.094	ac			
Impervious Area:	0.342	ac			
	14,898	sf	**WQ_R:**	1,241	cf
			$WQ_{75\%}$:	931	cf

A =	Surface area of filter bed (ft^2)	1,350	ft^2
d_f =	Filter bed depth (ft)	1.5	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

1,350 X 1.5 X 33% = **668 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	668	cf
A =	Surface area of filter bed (ft^2)	1,350	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.66	ft

Total Storage provided by this BMP:

WQ_V = $V_M + (A \times d_M \times V_R) + (A \times h_o)$ = **1,671** cf

Drain time in a lined filter is limited the permeability of the media:

Drain time per 1.2" storm HydroCAD:

t_f = 0.50 days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_{V)} \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,	**WQ_V =**	Total Required Water Quality Volume	1,241	cf
	d_f =	Filter bed depth (ft)	1.5	ft
	k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
	h_f =	Average height of water above surface of media	0.455	ft
	t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = **544 sf**

A = **1,350 sf** Area exceeds minimum required.

Northeast Engineers
& Consultants, Inc.

P204A-DT: Detention Basin

Project: 10068.0 Prescott Point, Portsmouth Rhode Island

Provided Channel Protection Calculations:

Volume of 1-Year Storm Runoff (From HydroCAD) $\mathbf{Vol_{1\text{-}YEAR}}$ **0.172 af**
7,492 cf

$$\mathbf{A = Q / (Cd(2gh)^{1/2})}$$

Where:

A = Area of outlet (ft^2)
Q= $\mathbf{Vol_{1\text{-}YEAR}}$ / 129,600 cfs **=** **0.058 cfs**
g = 32.2 (ft/s^2)
h = (**z** - 0.5*($\mathbf{D_{ASSUME}}$)) / 2 **=** **0.256 ft.**
Cd = 0.6

Where:

z = depth of basin that contains $\mathbf{Vol_{1\text{-}YEAR}}$ **=** **0.60 ft**
$\mathbf{D_{ASSUME}}$ **=** Assumed diameter of outlet = **2.1 in.**

A = **0.0237 ft^2**
$\mathbf{D_{FINAL}}$ **=** **2.1 in.**

Northeast Engineers & Consultants, Inc.

P205-SF: Sand Filter (Lined)

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Provided Water Quality Volume Calculations:

Pavement =	0.000	ac			
Residences =	0.165	ac			
Driveways =	0.084	ac			
Impervious Area:	0.249	ac			
	10,846	sf	**WQ_R:**	904	cf

A =	Surface area of filter bed (ft^2)	876	ft^2
d_f =	Filter bed depth (ft)	2	ft
V_R=	media void ratio	33%	

Storage Volume in Media:

876 X 2 X 33% = **578 cf**

Per the RISDISM, the storage volume of the system must accommodate 75% of the WQ volume. The total provided area is this area, plus the storage in the mulch layer plus the area under the outlet.

V_M =	storage volume in media	578	cf
A =	Surface area of filter bed (ft^2)	876	ft^2
d_M =	depth of mulch	0.25	ft
h_o =	storage height below outlet	0.66	ft

Total Storage provided by this BMP:

WQ_V = $V_M + (A \times d_M \times V_R) + (A \times h_o)$ = **1,229** cf

Drain time in an unlined filter is limited the permeability of the material below:

Drain time per 1.2" storm HydroCAD:

t_f = 0.50 days

The minimum area of the filter, according to RISDISM, is calculated using the following equation:

$$A_R = (WQ_{V)} \times (d_f) / [(k) \times (h_f + d_f) \times (t_f)]$$

Where,

WQ_V =	Total Required Water Quality Volume	904	cf
d_f =	Filter bed depth (ft)	2	ft
k =	Coefficient of permeability of filter media (ft/day)	3.5	ft/day
h_f =	Average height of water above surface of media	0.455	ft
t_f =	Design filter bed drain time (days)	0.50	

Therefore, the minimum surface areas is:

A_R = 421 sf

A = 876 sf Area exceeds minimum required.

Northeast Engineers & Consultants, Inc.

ST1:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**2.6**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**348.40**	cy
	the volume of sediment of sediment trapped in cf	=	**9,407**	**cf**

Minimum wet storage	=	**4,703**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**4,703**	**cf**

Northeast Engineers & Consultants, Inc.

ST2:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**1.1**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**147.40**	cy
	the volume of sediment of sediment trapped in cf	=	**3,980**	**cf**

Minimum wet storage	=	**1,990**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**1,990**	**cf**

Northeast Engineers & Consultants, Inc.

ST3:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**3.7**	DE
V =	the volume of sediment of sediment trapped in cu. yards	=	**495.80**	cy
	the volume of sediment of sediment trapped in cf	=	**13,387**	**cf**

Minimum wet storage	=	**6,693**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**6,693**	**cf**

Northeast Engineers & Consultants, Inc.

ST4:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**0.5**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**67.00**	cy
	the volume of sediment of sediment trapped in cf	=	**1,809**	**cf**

Minimum wet storage	=	**905**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**905**	**cf**

Northeast Engineers & Consultants, Inc.

ST5:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**1.4**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**187.60**	cy
	the volume of sediment of sediment trapped in cf	=	**5,065**	**cf**

Minimum wet storage	=	**2,533**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**2,533**	**cf**

Northeast Engineers & Consultants, Inc.

ST6:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**0.5**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**67.00**	cy
	the volume of sediment of sediment trapped in cf	=	**1,809**	**cf**

Minimum wet storage	=	**905**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**905**	**cf**

Northeast Engineers
& Consultants, Inc.

ST7:Temporary Sediment Trap

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Sediment Volume Calculations:

V = 134 * DA

where:

DA =	drainage area in acres	=	**0.7**	ac
V =	the volume of sediment of sediment trapped in cu. yards	=	**93.80**	cy
	the volume of sediment of sediment trapped in cf	=	**2,533**	**cf**

Minimum wet storage	=	**1,266**	**cf**
Maximum wet storage depth	=	**3**	**ft.**
Minimum dry storage	=	**1,266**	**cf**

Outlet Protection Calculations

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Stone Apron Calculations

$L_A = (1.7Q) / D_O^{3/2}) + 8D_O$

$W = 3(D_O) + 0.4(L_A)$ Where Tailwater >= $0.5(D_O)$

$W = 3(D_O) + L_A$ Where Tailwater < $0.5(D_O)$

$d_{50} = (0.02/TW) \text{ X } (Q/DO)^{4/3}$

Device	25-Year Outlet (cfs)	Outlet Pipe Size (in)	Tailwater Depth (in)	Min. L_A (ft)	Min. W (ft)	d_{50} (in)
P201-DT	9.10	18	18.0	20.4	12.7	1.8
P201-SF	0.47	4	4.0	6.8	3.7	1.1
P202-SF	12.92	18	18.0	24.0	14.1	2.8
P202-DT	6.20	12	12.0	18.5	10.4	2.7
P203-SF	0.51	4	4.0	7.2	3.9	1.3
P203-DT	5.62	12	12.0	17.6	10.0	2.4
P204A-SF	0.63	4	4.0	8.2	4.3	1.7
P204B-SF	0.51	4	4.0	7.2	3.9	1.3
P204A-DT	4.92	12	9.7	16.4	9.5	2.5

Outlet Protection Calculations

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Level Spreader Calculations

Spillway Outlet Flow (cfs)	0-10	11-20	21-30
Level Spreader Length (ft)	10	20	30

Device	25-Year Outlet* (cfs)	Min. Level Spreader Length (ft)
P201-DT	0.93	10.0
P202-SF	12.92	15.0
P202-DT	1.23	10.0
P203-DT	18.2	20.0
P204A-DT	5.9	10.0

* 100-Year Storm flows used where 25-year storm flow is zero.

Northeast Engineers & Consultants, Inc.

Groundwater Recharge Calculations

Project: 15129.0 Prescott Point, Portsmouth Rhode Island

Proposed Pavement =	4.042	ac
Proposed Driveways =	1.797	ac
Proposed Residences =	3.760	ac
Total Impervious =	9.599	ac

HSG	Recharge Factor (F)
A	0.60
B	0.35
C	0.25
D	0.10

Impervious Area: 9.599 ac **F =** 0.25

$WRec_V$ = (Impervious Area) / 12 X F

$WRec_V$ = 0.200 af = 8,711 cf

Provided $WRec_V$ = 0.036 af*

* = Total WQ storm infiltration volume of all infiltrating devices.

Brief Stormceptor Sizing Report - 201SF

Project Information & Location			
Project Name	Prescott Point 201SF	**Project Number**	10068.0
City	Portsmouth	**State/ Province**	Rhode Island
Country	United States of America	**Date**	1/9/2019
Designer Information		**EOR Information (optional)**	
Name	Jeremy Rosa	**Name**	
Company	Northeast Engineers & Consultants, Inc.	**Company**	
Phone #	401-849-0810	**Phone #**	
Email	jeremyr@northeastengineers.com	**Email**	

Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

Site Name	201SF
Target TSS Removal (%)	70
TSS Removal (%) Provided	73
Recommended Stormceptor Model	STC 450i

The recommended Stormceptor Model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

Stormceptor Sizing Summary	
Stormceptor Model	**% TSS Removal Provided**
STC 450i	73
STC 900	82
STC 1200	82
STC 1800	82
STC 2400	87
STC 3600	87
STC 4800	91
STC 6000	91
STC 7200	93
STC 11000	96
STC 13000	96
STC 16000	97
StormceptorMAX	Custom

Sizing Details

Drainage Area	
Total Area (acres)	9.12
Imperviousness %	40.2

Rainfall	
Station Name	PROVIDENCE WSO AIRPORT
State/Province	Rhode Island
Station ID #	6698
Years of Records	58
Latitude	41°43'19"N
Longitude	71°25'57"W

Water Quality Objective	
TSS Removal (%)	70.0
Runoff Volume Capture (%)	
Oil Spill Capture Volume (Gal)	
Peak Conveyed Flow Rate (CFS)	14.36
Water Quality Flow Rate (CFS)	3.72

Up Stream Storage	
Storage (ac-ft)	Discharge (cfs)
0.000	0.000

Up Stream Flow Diversion	
Max. Flow to Stormceptor (cfs)	

Particle Size Distribution (PSD)
The selected PSD defines TSS removal

Coarse Distribution		
Particle Diameter (microns)	Distribution %	Specific Gravity
150.0	60.0	2.65
400.0	20.0	2.65
2000.0	20.0	2.65

Notes

• Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules.
• Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed.
• For submerged applications or sites specific to spill control, please contact your local Stormceptor representative for further design assistance.

For Stormceptor Specifications and Drawings Please Visit:
http://www.imbriumsystems.com/technical-specifications

Brief Stormceptor Sizing Report - 202A-SF

Project Information & Location			
Project Name	Prescott Point 202A-SF	**Project Number**	10068.0
City	Portsmouth	**State/ Province**	Rhode Island
Country	United States of America	**Date**	1/9/2019
Designer Information		**EOR Information (optional)**	
Name	Jeremy Rosa	**Name**	
Company	Northeast Engineers & Consultants, Inc.	**Company**	
Phone #	401-849-0810	**Phone #**	
Email	jeremyr@northeastengineers.com	**Email**	

Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

Site Name	202A-SF
Target TSS Removal (%)	70
TSS Removal (%) Provided	80
Recommended Stormceptor Model	STC 450i

The recommended Stormceptor Model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

Stormceptor Sizing Summary	
Stormceptor Model	**% TSS Removal Provided**
STC 450i	80
STC 900	88
STC 1200	88
STC 1800	88
STC 2400	92
STC 3600	92
STC 4800	95
STC 6000	95
STC 7200	96
STC 11000	97
STC 13000	98
STC 16000	98
StormceptorMAX	Custom

Sizing Details

Drainage Area	
Total Area (acres)	8.05
Imperviousness %	27.4

Rainfall	
Station Name	PROVIDENCE WSO AIRPORT
State/Province	Rhode Island
Station ID #	6698
Years of Records	58
Latitude	41°43'19"N
Longitude	71°25'57"W

Water Quality Objective	
TSS Removal (%)	70.0
Runoff Volume Capture (%)	
Oil Spill Capture Volume (Gal)	
Peak Conveyed Flow Rate (CFS)	5.43
Water Quality Flow Rate (CFS)	2.21

Up Stream Storage	
Storage (ac-ft)	Discharge (cfs)
0.000	0.000

Up Stream Flow Diversion	
Max. Flow to Stormceptor (cfs)	

Particle Size Distribution (PSD)
The selected PSD defines TSS removal

Coarse Distribution		
Particle Diameter (microns)	Distribution %	Specific Gravity
150.0	60.0	2.65
400.0	20.0	2.65
2000.0	20.0	2.65

Notes

• Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules.
• Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed.
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For Stormceptor Specifications and Drawings Please Visit:
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Brief Stormceptor Sizing Report - 203SF

Project Information & Location			
Project Name	Prescott Point 203SF	**Project Number**	10068.0
City	Portsmouth	**State/ Province**	Rhode Island
Country	United States of America	**Date**	1/9/2019
Designer Information		**EOR Information (optional)**	
Name	Jeremy Rosa	**Name**	
Company	Northeast Engineers & Consultants, Inc.	**Company**	
Phone #	401-849-0810	**Phone #**	
Email	jeremyr@northeastengineers.com	**Email**	

Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

Site Name	203SF
Target TSS Removal (%)	70
TSS Removal (%) Provided	85
Recommended Stormceptor Model	STC 450i

The recommended Stormceptor Model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

Stormceptor Sizing Summary	
Stormceptor Model	**% TSS Removal Provided**
STC 450i	85
STC 900	92
STC 1200	92
STC 1800	92
STC 2400	95
STC 3600	95
STC 4800	97
STC 6000	97
STC 7200	98
STC 11000	98
STC 13000	99
STC 16000	99
StormceptorMAX	Custom

Sizing Details

Drainage Area	
Total Area (acres)	4.39
Imperviousness %	30.9

Rainfall	
Station Name	PROVIDENCE WSO AIRPORT
State/Province	Rhode Island
Station ID #	6698
Years of Records	58
Latitude	41°43'19"N
Longitude	71°25'57"W

Water Quality Objective	
TSS Removal (%)	70.0
Runoff Volume Capture (%)	
Oil Spill Capture Volume (Gal)	
Peak Conveyed Flow Rate (CFS)	4.41
Water Quality Flow Rate (CFS)	1.30

Up Stream Storage	
Storage (ac-ft)	Discharge (cfs)
0.000	0.000

Up Stream Flow Diversion	
Max. Flow to Stormceptor (cfs)	

Particle Size Distribution (PSD)
The selected PSD defines TSS removal

Coarse Distribution		
Particle Diameter (microns)	Distribution %	Specific Gravity
150.0	60.0	2.65
400.0	20.0	2.65
2000.0	20.0	2.65

Notes

• Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules.
• Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed.
• For submerged applications or sites specific to spill control, please contact your local Stormceptor representative for further design assistance.

For Stormceptor Specifications and Drawings Please Visit:
http://www.imbriumsystems.com/technical-specifications

Brief Stormceptor Sizing Report - 204A-SF

Project Information & Location			
Project Name	Prescott Point 204A-SF	**Project Number**	10068.0
City	Portsmouth	**State/ Province**	Rhode Island
Country	United States of America	**Date**	1/9/2019
Designer Information		**EOR Information (optional)**	
Name	Jeremy Rosa	**Name**	
Company	Northeast Engineers & Consultants, Inc.	**Company**	
Phone #	401-849-0810	**Phone #**	
Email	jeremyr@northeastengineers.com	**Email**	

Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

Site Name	204A-SF
Target TSS Removal (%)	70
TSS Removal (%) Provided	90
Recommended Stormceptor Model	OSR 065

The recommended Stormceptor Model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

Stormceptor Sizing Summary	
OSR Model	**% TSS Removal Provided**
OSR 065	90
OSR 140	95
OSR 250	97
OSR 390	98
OSR 560	99
OSR 780	99
OSR 1125	99
StormceptorMAX	Custom

Sizing Details

Drainage Area	
Total Area (acres)	2.42
Imperviousness %	46.1

Rainfall	
Station Name	PROVIDENCE WSO AIRPORT
State/Province	Rhode Island
Station ID #	6698
Years of Records	58
Latitude	41°43'19"N
Longitude	71°25'57"W

Water Quality Objective	
TSS Removal (%)	70.0
Runoff Volume Capture (%)	
Oil Spill Capture Volume (Gal)	
Peak Conveyed Flow Rate (CFS)	1.90
Water Quality Flow Rate (CFS)	0.97

Up Stream Storage	
Storage (ac-ft)	Discharge (cfs)
0.000	0.000

Up Stream Flow Diversion	
Max. Flow to Stormceptor (cfs)	

Particle Size Distribution (PSD)
The selected PSD defines TSS removal

Coarse Distribution		
Particle Diameter (microns)	Distribution %	Specific Gravity
150.0	60.0	2.65
400.0	20.0	2.65
2000.0	20.0	2.65

Notes

- Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules.
- Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed.
- For submerged applications or sites specific to spill control, please contact your local Stormceptor representative for further design assistance.

For Stormceptor Specifications and Drawings Please Visit:
http://www.imbriumsystems.com/technical-specifications

APPENDIX F SOIL EVALUATIONS

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program

Site Evaluation Form
Part A – Soil Profile Description Application Number DRAINAGE TH's

Property Owner: PRESCOTT POINT LLC
Property Location: FREEDOM TRAIL DR., MIDDLETOWN, RI
Date of Test Hole: 7-12-16
Soil Evaluator: KATHLEEN P. MANGAN License Number: D4025
Weather: SUNNY; ± 85°F Shaded: Yes ☐ No ☑ Time: 7:30 +

TH 2 Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
FILL	0-34	a	i	5Y 3/1	—	—	gFsl	Ø-m	vFi	9m
FILL	34-64	—	—	5Y 3/1	7.5YR 5/8 c,c,p 5Y 6/2 c,c,p		sil/gsil	Ø-m	vFi	9m

TH 3A Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
FILL	0-96	—	—	5Y 3/1	—	—	gFsl	Ø-m	vFi	9m

TH 2 Soil Class FILL Total Depth 64" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 34" (og)
TH 3A Soil Class FILL Total Depth 96" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT UNK (og)

Comments: TH2 → ESHWT IS BELOW EXISTING GRADE.
=
TH3A → NO VISIBLE REDOX FEATURES, ESHWT UNDETERMINED.

Revised 1/31/14

Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer

Part B TH's 2 & 3A

Please use the area below to locate:

1. Test holes and bedrock test holes,
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*

***OFFSETS MUST BE SHOWN**

Key:
- Approximate location of test holes
- Approximate location of bedrock test holes
- x% Estimated gradient and direction of slope
- N Approximate direction of due north

SEE LOCATION OF TH's ON ACCOMPANYING SITE PLAN

Bedrock THs	
TH	Depth

1. Relief and Slope: 3 TO 8 % SLOPE
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO ☐ YES ☑
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO ☐ YES ☐ UNK
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO ☑ YES ☐
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO ☐ YES ☑
8. Site's potential for flooding or ponding: NONE ☐ SLIGHT ☐ MODERATE ☑ SEVERE ☐
9. Landscape position: TH2 - FOOTSLOPE ; TH3A - BACKSLOPE
10. Vegetation: GRASSY AREA
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site:

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: Kathryn L. Mang (Signature) – D4025 (License #) Part B prepared by: Kathryn L. Mang (Signature) – D4025 (License #)

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur ☐ Inconclusive ☐ Disclaim ☐

Unwitnessed Soil Evaluations Decision: Accept ☐ Inconclusive ☐ Disclaim ☐

Wet Season Determination required ☐ **Additional Field Review Required** ☐

Explanation:

Signature Authorized Agent

Date

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program

Site Evaluation Form
Part A – Soil Profile Description Application Number DRAINAGE TH's

Property Owner: PRESCOTT POINT, LLC
Property Location: FREEDOM TRAIL DR., MIDDLETOWN, RI
Date of Test Hole: 7-12-16
Soil Evaluator: KATHLEEN P. MANGAN License Number: D4025
Weather: SUNNY, ± 85 °F Shaded: Yes ☑ No ☐ Time: 7:30+

TH 3B Horizon	Depth (in.)	Horizon Boundaries		Soil Colors		Re-Dox	Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.				
A0	0-12	a	s	2.5Y 2.5/1	—	—	sil	Ø-m	Fr	5
Cg1	12-24	a	b	2.5Y 4/2	7.5YR 4/6	m.c,p	sil	Ø-m	Fr	5
Cg2	24-48	—	—	10Y 3/1	—	—	sil	Ø-m	Fr	7

TH 6 Horizon	Depth (in.)	Horizon Boundaries		Soil Colors		Re-Dox	Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab. S. Contr.				
FILL	0-24	a	w		—	—	vfsl	N/A	N/A	
Bw	24-31	a	w	2.5Y 6/3	7.5YR 5/8	c,f,p	sil	1fsbk	vfr	5
Cd	31-66	—	—	5Y 3/1	—	—	gsil	Ø-m	vFi	9m

TH 3B Soil Class HYDRIC Total Depth 48" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth 3" SHWT 0" (og)
TH 6 Soil Class A Total Depth 66" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 24" (og)

Comments: TH6 - ESHWT IS BELOW EXISTING GRADE

Revised 1/31/14

Part B TH's 3B & 6

Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer

Please use the area below to locate:

1. Test holes and bedrock test holes,
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*

***OFFSETS MUST BE SHOWN**

Key:
- Approximate location of test holes
- Approximate location of bedrock test holes
- x% Estimated gradient and direction of slope
- N Approximate direction of due north

SEE ACCOMPANYING SITE PLAN FOR LOCATION OF ALL TH's

Bedrock THs	
TH	Depth

1. Relief and Slope: _____
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO ☐ YES ☑
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO ☐ YES ☐ UNK
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO ☑ YES ☐
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO ☐ YES ☑ (TH 6)
8. Site's potential for flooding or ponding: NONE ☐ SLIGHT ☐ MODERATE ☐ SEVERE ☑ (TH 3B)
9. Landscape position: TH 3B - BACKSLOPE ; TH 6 - BACKSLOPE
10. Vegetation: TH 3B - VEGETATED DET. BASIN ; TH 6 - WOODLAND
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site: _____

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: Kayl. May (Signature) D4025 (License #) Part B prepared by: Kayl. May (Signature) D4025 (License #)

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur ☐ Inconclusive ☐ Disclaim ☐

Unwitnessed Soil Evaluations Decision: Accept ☐ Inconclusive ☐ Disclaim ☐

Wet Season Determination required ☐ **Additional Field Review Required** ☐

Explanation: _____

Signature Authorized Agent _____ Date _____

Revised 1/31/14

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program

Site Evaluation Form
Part A – Soil Profile Description **Application Number** DRAINAGE TH's

Property Owner: PRESCOTT POINT LLC
Property Location: FREEDOM TRAIL DR., MIDDLETOWN, RI
Date of Test Hole: 7-12-16
Soil Evaluator: KATHLEEN P. MANGAN License Number: D4025
Weather: SUNNY, ± 85°F Shaded: Yes ☑ No ☐ Time: 7:30+

TH 7 Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
FILL	0-24	a	w				vfsl	N/A	N/A	
Bw	24-49	a	w	2.5Y 6/3	7.5YR 4/6 2.5Y 6/2	m, c, p m, c, F	sil	1Fsbk	Fr	5
2Cd	49-80	—	—	5Y 3/1	2.5Y 3/3	c, c, d	gfsl	Ø-m	vFi	9m

TH 8 Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
FILL	0-24	a	w		—	—	vfsl	N/A	N/A	
Bw	24-31	c	w	2.5Y 5/3	7.5YR 4/6 2.5Y 6/2	m, m, p m, c, F	sil	1Fsbk	Fr	5
C	31-52	a	w	2.5Y 4/2	7.5YR 5/8 5Y 6/1	m, c, p m, c, p	sil	Ø-m	Fr	7
2Cd	52-78	—	—	5Y 3/1	2.5Y 3/3	c, c, d	gfsl	Ø-m	vFi	9m

TH 7 Soil Class A Total Depth 80" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 24" (og)
TH 8 Soil Class A Total Depth 78" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 24" (og)

Comments: ESHWT's ARE BELOW EXISTING GRADE.

Revised 1/31/14

Part B TH's 7 & 8

Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer

Please use the area below to locate:

1. *Test holes and bedrock test holes,*
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*

***OFFSETS MUST BE SHOWN**

Key:

- Approximate location of test holes
- Approximate location of bedrock test holes
- x% Estimated gradient and direction of slope
- N Approximate direction of due north

SEE ACCOMPANYING SITE PLAN FOR LOCATION OF ALL TESTHOLES

Bedrock THs	
TH	Depth

1. Relief and Slope: 0 TO 3 % SLOPE
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO ☐ YES ☑
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO ☐ YES ☐ UNK
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO ☑ YES ☐
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO ☐ YES ☐
8. Site's potential for flooding or ponding: NONE ☑ SLIGHT ☐ MODERATE ☐ SEVERE ☐
9. Landscape position: BACKSLOPE
10. Vegetation: WOODLAND
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site: ______

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: [signature] D4025 — Signature, License #   Part B prepared by: [signature] D4025 — Signature, License #

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur ☐ Inconclusive ☐ Disclaim ☐

Unwitnessed Soil Evaluations Decision: Accept ☐ Inconclusive ☐ Disclaim ☐

Wet Season Determination required ☐ **Additional Field Review Required** ☐

Explanation: ______

Signature Authorized Agent ______ Date ______

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program

Site Evaluation Form
Part A – Soil Profile Description Application Number DRAINAGE TH's

Property Owner: PRESCOTT POINT LLC
Property Location: FREEDOM TRAIL DR., MIDDLETOWN, RI
Date of Test Hole: 7-12-16
Soil Evaluator: KATHLEEN P. MANGAN License Number: D4025
Weather: SUNNY; ± 85°F Shaded: Yes ☑ No ☐ Time: 7:30+

TH 9 Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
Ap	0-10	a	s	10YR 2/2	—	—	sil	1fgr	vfr	5
Bw1	10-24	c	w	2.5Y 4/4	—	—	vfsl	1fsbk	vfr	5
Bw2	24-48	a	s	2.5Y 5/4	7.5YR 4/6 m,m,p 5Y 6/1 m,m,d		vfsl	1fgr	vfr	5
C	48-70	a	s	2.5Y 5/1	7.5YR 5/8 m,c,p		sil	Ø-m	fr	7
2Cd	70-78	—	—	2.5Y 2.5/1	—	—	gfsl	Ø-m	vfi	9m

TH 10 Horizon	Depth (in.)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
Ap	0-7	a	s	10YR 3/2	—	—	vfsl	1fgr	vfr	5
Bw1	7-16	c	w	2.5Y 4/4	—	—	vfsl	1fsbk	vfr	5
Bw2	16-37	a	s	2.5Y 5/3	7.5YR 5/8 m,c,p 5Y 6/1 m,c,p		vfsl	1fsbk	vfr	5
2Cd	37-74	—	—	2.5Y 2.5/1	—	—	gfsl	Ø-m	vfi	9m

TH 9 Soil Class A Total Depth 78" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 24" (og)
TH 10 Soil Class A Total Depth 74" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 16" (og)

Comments:

Part B TH'S 9 & 10

Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer
Please use the area below to locate:
1. Test holes and bedrock test holes,
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*
***OFFSETS MUST BE SHOWN**

Key:
- Approximate location of test holes
- Approximate location of bedrock test holes
- x% Estimated gradient and direction of slope
- N Approximate direction of due north

SEE ACCOMPANYING SITE PLAN FOR LOCATION OF ALL TH'S

Bedrock THs	
TH	Depth

1. Relief and Slope: 0 TO 3 % SLOPE
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO ☐ YES ☑
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO ☐ YES ☐ UNK
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO ☑ YES ☐
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO ☑ YES ☐
8. Site's potential for flooding or ponding: NONE ☐ SLIGHT ☑ MODERATE ☐ SEVERE ☐
9. Landscape position: FOOTSLOPE
10. Vegetation: WOODLAND
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site:

Certification
The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: [signature] D4025 (Signature, License #)   Part B prepared by: [signature] D4025 (Signature, License #)

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur ☐ Inconclusive ☐ Disclaim ☐
Unwitnessed Soil Evaluations Decision: Accept ☐ Inconclusive ☐ Disclaim ☐
Wet Season Determination required ☐ **Additional Field Review Required** ☐
Explanation:

Signature Authorized Agent   Date

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Environmental Management
Office of Water Resources
Onsite Wastewater Treatment System Program

Site Evaluation Form
Part A – Soil Profile Description **Application Number** DRAINAGE TH'S

Property Owner: PRESCOTT POINT, LLC
Property Location: FREEDOM TRAIL DR., MIDDLETOWN, RI
Date of Test Hole: 7-12-16
Soil Evaluator: KATHLEEN P. MANGAN License Number: D4025
Weather: SUNNY; ± 85°F Shaded: Yes ☑ No ☐ Time: 7:30+

TH 11 Horizon	Depth (in)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category
Ap	0-12	a	s	10YR 3/2	—	—	sil	1fgr	vfr	5
Bw1	12-20	g	w	2.5Y 4/4	—	—	vfsl	1fsbk	vfr	5
Bw2	20-28	a	w	2.5Y 4/3	7.5YR 5/8 5Y 6/1	m, m, p m, c, p	vfsl	1fsbk	vfr	5
C	28-60	a	w	5Y 5/1	7.5YR 4/6	m, c, p	vfsl	Ø-m	fr	7
2Cd	60-68	—	—	5Y 3/1	—	—	gfsl	Ø-m	vfi	9m

TH ____ Horizon	Depth (in)	Horizon Boundaries: Dist	Horizon Boundaries: Topo	Soil Colors: Matrix	Soil Colors: Re-Dox Features	Re-Dox: Ab. S. Contr.	Texture	Structure	Consistence	Soil Category

TH 11 Soil Class A Total Depth 68" Impervious/Limiting Layer Depth N/A (og) GW Seepage Depth N/A SHWT 20" (og)

TH _____ Soil Class _____ Total Depth _____ Impervious/Limiting Layer Depth _____ (og) GW Seepage Depth _____ SHWT _____ (og)

Comments: _____

Revised 1/31/14

Part B TH 11

Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer

Please use the area below to locate:

1. Test holes and bedrock test holes,
2. Approximate direction of due north,
3. Offsets from all test holes to fixed points such as street, utility pole, or other permanent, marked object.*

***OFFSETS MUST BE SHOWN**

Key:
- Approximate location of test holes
- Approximate location of bedrock test holes
- x% Estimated gradient and direction of slope
- N Approximate direction of due north

SEE ACCOMPANYING SITE PLAN FOR LOCATION OF ALL TH'S

Bedrock THs	
TH	Depth

1. Relief and Slope: 0 TO 3 % SLOPE
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes? If yes, locate on above sketch. NO ☐ YES ☑
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole? Provide all test hole locations & depths above. NO ☐ YES ☐ UNK
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO ☑ YES ☐
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 38? NO ☑ YES ☐
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO ☑ YES ☐
8. Site's potential for flooding or ponding: NONE ☐ SLIGHT ☑ MODERATE ☐ SEVERE ☐
9. Landscape position: TH 11 - FOOTSLOPE
10. Vegetation: WOODLAND
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site:

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: Kathy L. Mann (Signature) D4025 (License #) Part B prepared by: Kathy L. Mann (Signature) D4025 (License #)

DO NOT WRITE IN THIS SPACE

Witnessed Soil Evaluation Decision: Concur ☐ Inconclusive ☐ Disclaim ☐

Unwitnessed Soil Evaluations Decision: Accept ☐ Inconclusive ☐ Disclaim ☐

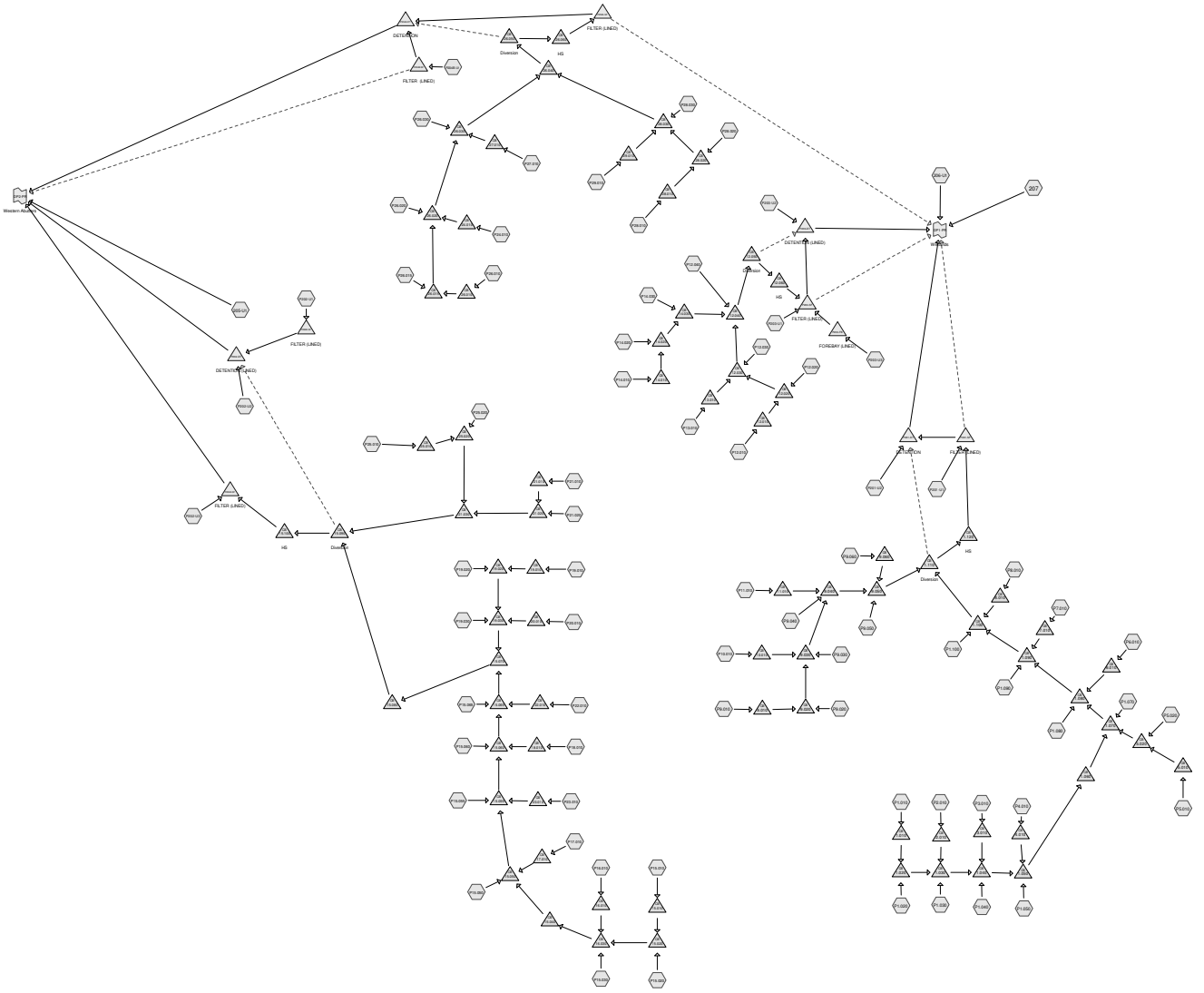
Wet Season Determination required ☐ **Additional Field Review Required** ☐

Explanation:

Signature Authorized Agent

Date

APPENDIX G WQ-STORM (1.2" SPLIT PERVIOUS/IMPERVIOUS)



Subcat Reach Pond Link

Routing Diagram for 10068 2021-11-17
Prepared by Northeast Engineers & Consultants, Inc., Printed 11/24/2021
HydroCAD® 10.10-6a s/n 04733 © 2020 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
29.198	74	>75% Grass cover, Good, HSG C (205-U1, 206-U1, 207, P1.020, P1.030, P1.040, P1.050, P1.070, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P13.010, P14.010, P14.020, P14.030, P15.010, P15.020, P15.030, P15.050, P16.010, P17.010, P18.010, P19.010, P20.010, P201-U1, P201-U2, P202-U1, P202-U2, P202-U3, P203-U1, P203-U2, P203-U3, P204B-U1, P21.010, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P5.010, P5.020, P9.010, P9.040, P9.050)
0.332	98	Assisted Living (P10.010, P18.010, P23.010)
0.597	98	Basin (P201-U2)
0.057	98	Clubhouse (P1.080)
1.033	98	Detention Basin (P202-U2, P202-U3, P203-U2)
2.161	98	Driveway (205-U1, 207, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P13.010, P14.010, P14.030, P16.010, P18.010, P19.010, P20.010, P202-U1, P202-U3, P203-U1, P203-U2, P204B-U1, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P9.010, P9.040, P9.050)
0.439	89	Gravel Parking Lot (P203-U3)
4.042	98	Pavement (206-U1, P1.010, P1.020, P1.030, P1.040, P1.050, P1.070, P1.080, P1.090, P1.100, P10.010, P11.010, P12.010, P12.020, P12.030, P12.040, P13.010, P14.010, P14.020, P14.030, P15.010, P15.020, P15.030, P15.050, P15.055, P15.060, P15.065, P16.010, P17.010, P18.010, P19.010, P19.020, P19.030, P2.010, P20.010, P21.010, P21.020, P22.010, P23.010, P24.010, P25.010, P25.020, P26.010, P26.015, P26.020, P26.030, P27.010, P28.010, P28.020, P28.030, P29.010, P3.010, P4.010, P5.010, P5.020, P6.010, P7.010, P8.010, P9.010, P9.020, P9.030, P9.040, P9.050, P9.060)
0.045	98	Pool and apron (P1.070, P1.080)
3.912	98	Residence (205-U1, 207, P1.080, P1.090, P1.100, P12.010, P13.010, P14.010, P14.030, P18.010, P19.010, P20.010, P202-U1, P202-U3, P203-U1, P203-U2, P204B-U1, P22.010, P23.010, P24.010, P25.020, P26.010, P27.010, P28.010, P29.010, P9.050)
0.490	98	Sand Filter (P201-U1, P202-U1, P202-U3, P203-U1, P204B-U1)
0.020	98	Sediment Forebay (P203-U3)
0.331	98	Tennis (P1.100, P9.050)
0.046	98	Treatment Plant (206-U1)
3.165	72	Woods/grass comb., Good, HSG C (205-U1, 206-U1)

Summary for Subcatchment 205-U1:

Runoff = 0.33 cfs @ 12.09 hrs, Volume= 0.038 af, Depth= 0.14"
Routed to Link DP2-PR : Western Abutters

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	54,855	72	Woods/grass comb., Good, HSG C
*	9,000	98	Residence
*	4,338	98	Driveway
	78,486	74	>75% Grass cover, Good, HSG C
	146,679	75	Weighted Average
	133,341	73	90.91% Pervious Area
	13,338	98	9.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.7	198	0.0750	4.41		**Shallow Concentrated Flow, Grass/Woods**
					Unpaved Kv= 16.1 fps
6.2	298	Total			

Summary for Subcatchment 206-U1:

Runoff = 0.25 cfs @ 12.22 hrs, Volume= 0.039 af, Depth= 0.13"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	83,026	72	Woods/grass comb., Good, HSG C
*	2,024	98	Treatment Plant
*	11,323	98	Pavement
	61,304	74	>75% Grass cover, Good, HSG C
	157,677	75	Weighted Average
	144,330	73	91.54% Pervious Area
	13,347	98	8.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.6	100	0.0900	0.14		**Sheet Flow, Woods**
					Woods: Light underbrush n= 0.400 P2= 3.30"
4.9	260	0.0030	0.88		**Shallow Concentrated Flow, Woods**
					Unpaved Kv= 16.1 fps
16.5	360	Total			

Summary for Subcatchment 207:

Runoff = 0.78 cfs @ 12.13 hrs, Volume= 0.082 af, Depth= 0.25"
Routed to Link DP1-PR : Wetlands

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	15,600	98	Residence
*	19,325	98	Driveway
	134,754	74	>75% Grass cover, Good, HSG C
	169,679	79	Weighted Average
	134,754	74	79.42% Pervious Area
	34,925	98	20.58% Impervious Area

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

Summary for Subcatchment P1.010:

Runoff = 0.02 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.99"
Routed to Pond 1.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	808	98	Pavement
	808	98	100.00% Impervious Area

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

Summary for Subcatchment P1.020:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.43"
Routed to Pond 1.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,633	98	Pavement
	3,965	74	>75% Grass cover, Good, HSG C
	6,598	84	Weighted Average
	3,965	74	60.09% Pervious Area
	2,633	98	39.91% Impervious Area

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

Summary for Subcatchment P1.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.44"
Routed to Pond 1.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.040:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.44"
Routed to Pond 1.040 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	3,800	74	>75% Grass cover, Good, HSG C
	6,400	84	Weighted Average
	3,800	74	59.38% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P1.050:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.44"
Routed to Pond 1.050 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	3,814	74	>75% Grass cover, Good, HSG C
	6,422	84	Weighted Average
	3,814	74	59.39% Pervious Area
	2,608	98	40.61% Impervious Area

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

Summary for Subcatchment P1.070:

Runoff = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af, Depth= 0.64"
Routed to Pond 1.070 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,440	98	Pavement
	2,001	74	>75% Grass cover, Good, HSG C
*	948	98	Pool and apron
	5,389	89	Weighted Average
	2,001	74	37.13% Pervious Area
	3,388	98	62.87% Impervious Area

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

Summary for Subcatchment P1.080:

Runoff = 0.36 cfs @ 12.10 hrs, Volume= 0.032 af, Depth= 0.37"
Routed to Pond 1.080 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,608	98	Pavement
*	2,500	98	Clubhouse
*	5,400	98	Residence
*	3,391	98	Driveway
	29,662	74	>75% Grass cover, Good, HSG C
*	1,025	98	Pool and apron
	44,586	82	Weighted Average
	29,662	74	66.53% Pervious Area
	14,924	98	33.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.1	100	0.1000	0.33		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	80	0.1000	5.09		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.0	380	Total			

Summary for Subcatchment P1.090:

Runoff = 0.39 cfs @ 12.13 hrs, Volume= 0.040 af, Depth= 0.27"
Routed to Pond 1.090 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
*	10,800	98	Residence
*	4,146	98	Driveway
	61,809	74	>75% Grass cover, Good, HSG C
	79,355	79	Weighted Average
	61,809	74	77.89% Pervious Area
	17,546	98	22.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	328	0.1000	5.09		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.6	200	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.4	628	Total			

Summary for Subcatchment P1.100:

Runoff = 0.49 cfs @ 12.14 hrs, Volume= 0.050 af, Depth= 0.31"
Routed to Pond 1.100 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	9,453	98	Pavement
*	7,847	98	Tennis
*	3,600	98	Residence
*	1,838	98	Driveway
	63,582	74	>75% Grass cover, Good, HSG C
	86,320	80	Weighted Average
	63,582	74	73.66% Pervious Area
	22,738	98	26.34% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.2	100	0.0300	0.20		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.1	267	0.0660	4.14		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.4	238	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.7	605	Total			

Summary for Subcatchment P10.010:

Runoff = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Depth= 0.67"
Routed to Pond 10.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,945	98	Driveway
	6,140	74	>75% Grass cover, Good, HSG C
*	2,450	98	Pavement
*	7,225	98	Assisted Living
	17,760	90	Weighted Average
	6,140	74	34.57% Pervious Area
	11,620	98	65.43% Impervious Area

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

Summary for Subcatchment P11.010:

Runoff = 0.07 cfs @ 12.09 hrs, Volume= 0.006 af, Depth= 0.32"
Routed to Pond 11.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,629	98	Pavement
*	295	98	Driveway
	7,609	74	>75% Grass cover, Good, HSG C
	10,533	81	Weighted Average
	7,609	74	72.24% Pervious Area
	2,924	98	27.76% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.2	39	0.0600	3.94		**Shallow Concentrated Flow, Lawnd** Unpaved Kv= 16.1 fps
0.2	42	0.0400	4.06		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
6.6	181	Total			

Summary for Subcatchment P12.010:

Runoff = 0.62 cfs @ 12.12 hrs, Volume= 0.061 af, Depth= 0.28"
Routed to Pond 12.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	18,000	98	Residence
*	4,033	98	Driveway
*	4,853	98	Pavement
	85,882	74	>75% Grass cover, Good, HSG C
	112,768	80	Weighted Average
	85,882	74	76.16% Pervious Area
	26,886	98	23.84% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
2.3	470	0.0440	3.38		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	36	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
8.8	606	Total			

Summary for Subcatchment P12.020:

Runoff = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.99"
Routed to Pond 12.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	4,825	98	Pavement
	4,825	98	100.00% Impervious Area

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

Summary for Subcatchment P12.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 12.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,623	98	Pavement
	2,623	98	100.00% Impervious Area

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

Summary for Subcatchment P12.040:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 12.040 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,654	98	Pavement
	2,654	98	100.00% Impervious Area

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

Summary for Subcatchment P13.010:

Runoff = 0.15 cfs @ 12.17 hrs, Volume= 0.016 af, Depth= 0.32"
Routed to Pond 13.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,114	98	Pavement
*	3,600	98	Residence
*	1,390	98	Driveway
	18,432	74	>75% Grass cover, Good, HSG C
	25,536	81	Weighted Average
	18,432	74	72.18% Pervious Area
	7,104	98	27.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.6	69	0.0150	1.97		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.2	145	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
12.6	314	Total			

Summary for Subcatchment P14.010:

Runoff = 0.19 cfs @ 12.07 hrs, Volume= 0.015 af, Depth= 0.49"
Routed to Pond 14.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,511	98	Pavement
*	3,600	98	Residence
*	1,344	98	Driveway
	8,646	74	>75% Grass cover, Good, HSG C
	16,101	85	Weighted Average
	8,646	74	53.70% Pervious Area
	7,455	98	46.30% Impervious Area

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

Summary for Subcatchment P14.020:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 0.28"
Routed to Pond 14.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,521	98	Pavement
	7,989	74	>75% Grass cover, Good, HSG C
	10,510	80	Weighted Average
	7,989	74	76.01% Pervious Area
	2,521	98	23.99% Impervious Area

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

Summary for Subcatchment P14.030:

Runoff = 0.11 cfs @ 12.16 hrs, Volume= 0.011 af, Depth= 0.35"
Routed to Pond 14.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,498	98	Pavement
*	1,800	98	Residence
*	937	98	Driveway
	11,310	74	>75% Grass cover, Good, HSG C
	16,545	82	Weighted Average
	11,310	74	68.36% Pervious Area
	5,235	98	31.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	100	0.0150	0.15		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	59	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	132	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
12.3	291	Total			

Summary for Subcatchment P15.010:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.74"
Routed to Pond 15.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	408	74	>75% Grass cover, Good, HSG C
*	1,115	98	Pavement
	1,523	92	Weighted Average
	408	74	26.79% Pervious Area
	1,115	98	73.21% Impervious Area

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

Summary for Subcatchment P15.020:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.44"
Routed to Pond 15.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	1,627	74	>75% Grass cover, Good, HSG C
*	1,112	98	Pavement
	2,739	84	Weighted Average
	1,627	74	59.40% Pervious Area
	1,112	98	40.60% Impervious Area

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

Summary for Subcatchment P15.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.44"
Routed to Pond 16.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	3,799	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
	6,399	84	Weighted Average
	3,799	74	59.37% Pervious Area
	2,600	98	40.63% Impervious Area

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

Summary for Subcatchment P15.050:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.67"
Routed to Pond 15.050 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	1,358	74	>75% Grass cover, Good, HSG C
*	2,627	98	Pavement
	3,985	90	Weighted Average
	1,358	74	34.08% Pervious Area
	2,627	98	65.92% Impervious Area

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

Summary for Subcatchment P15.055:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.99"
Routed to Pond 15.055 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P15.060:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 15.060 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P15.065:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.99"
Routed to Pond 15.065 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,300	98	Pavement
	1,300	98	100.00% Impervious Area

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

Summary for Subcatchment P16.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 0.66"
Routed to Pond 16.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	1,517	74	>75% Grass cover, Good, HSG C
*	2,600	98	Pavement
*	223	98	Driveway
	4,340	90	Weighted Average
	1,517	74	34.95% Pervious Area
	2,823	98	65.05% Impervious Area

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

Summary for Subcatchment P17.010:

Runoff = 0.06 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.87"
Routed to Pond 17.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	346	74	>75% Grass cover, Good, HSG C
*	2,397	98	Pavement
	2,743	95	Weighted Average
	346	74	12.61% Pervious Area
	2,397	98	87.39% Impervious Area

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

Summary for Subcatchment P18.010:

Runoff = 0.31 cfs @ 12.11 hrs, Volume= 0.035 af, Depth= 0.18"
Routed to Pond 18.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,612	98	Assisted Living
*	5,400	98	Residence
*	1,671	98	Driveway
*	2,500	98	Pavement
	89,843	74	>75% Grass cover, Good, HSG C
	103,026	77	Weighted Average
	89,843	74	87.20% Pervious Area
	13,183	98	12.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.5	82	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.3	548	Total			

Summary for Subcatchment P19.010:

Runoff = 0.08 cfs @ 12.14 hrs, Volume= 0.008 af, Depth= 0.43"
Routed to Pond 19.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	672	98	Driveway
*	1,217	98	Pavement
	5,672	74	>75% Grass cover, Good, HSG C
	9,361	83	Weighted Average
	5,672	74	60.59% Pervious Area
	3,689	98	39.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Lawn** Grass: Short n= 0.150 P2= 3.30"
0.1	20	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.3	50	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.0	170	Total			

Summary for Subcatchment P19.020:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.99"
Routed to Pond 19.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,266	98	Pavement
	1,266	98	100.00% Impervious Area

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

Summary for Subcatchment P19.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 19.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P2.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 2.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P20.010:

Runoff = 0.16 cfs @ 12.14 hrs, Volume= 0.016 af, Depth= 0.39"
Routed to Pond 20.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,344	98	Driveway
*	2,600	98	Pavement
	13,626	74	>75% Grass cover, Good, HSG C
	21,170	83	Weighted Average
	13,626	74	64.36% Pervious Area
	7,544	98	35.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.5	94	0.0400	3.22		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.6	104	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
10.7	298	Total			

Summary for Subcatchment P201-U1:

Runoff = 0.22 cfs @ 12.07 hrs, Volume= 0.018 af, Depth= 0.40"
Routed to Pond P201-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	8,455	98	Sand Filter
	14,316	74	>75% Grass cover, Good, HSG C
	22,771	83	Weighted Average
	14,316	74	62.87% Pervious Area
	8,455	98	37.13% Impervious Area

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

Summary for Subcatchment P201-U2:

Runoff = 0.68 cfs @ 12.07 hrs, Volume= 0.050 af, Depth= 0.74"
Routed to Pond P201-DT : DETENTION

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	26,017	98	Basin
	9,639	74	>75% Grass cover, Good, HSG C
	35,656	92	Weighted Average
	9,639	74	27.03% Pervious Area
	26,017	98	72.97% Impervious Area

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

Summary for Subcatchment P202-U1:

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.024 af, Depth= 0.28"
Routed to Pond P202B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	7,200	98	Residence
*	2,705	98	Driveway
*	35,036	74	>75% Grass cover, Good, HSG C
*	622	98	Sand Filter
	45,563	80	Weighted Average
	35,036	74	76.90% Pervious Area
	10,527	98	23.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.8	181	0.0550	3.78		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.6	281	Total			

Summary for Subcatchment P202-U2:

Runoff = 0.42 cfs @ 12.10 hrs, Volume= 0.034 af, Depth= 0.63"
Routed to Pond P202-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	10,612	74	>75% Grass cover, Good, HSG C
*	17,157	98	Detention Basin
	27,769	89	Weighted Average
	10,612	74	38.22% Pervious Area
	17,157	98	61.78% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Lawns**
					Grass: Short n= 0.150 P2= 3.30"
0.4	90	0.0667	4.16		**Shallow Concentrated Flow, Lawnd**
					Unpaved Kv= 16.1 fps
7.1	190	Total			

Summary for Subcatchment P202-U3:

Runoff = 0.80 cfs @ 12.10 hrs, Volume= 0.071 af, Depth= 0.37"
Routed to Pond P202A-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	12,758	98	Detention Basin
	66,887	74	>75% Grass cover, Good, HSG C
*	10,800	98	Residence
*	4,079	98	Driveway
*	5,600	98	Sand Filter
	100,124	82	Weighted Average
	66,887	74	66.80% Pervious Area
	33,237	98	33.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.0600	0.27		**Sheet Flow, Lawns** Grass: Short n= 0.150 P2= 3.30"
1.0	235	0.0638	4.07		**Shallow Concentrated Flow, Lawns** Unpaved Kv= 16.1 fps
7.2	335	Total			

Summary for Subcatchment P203-U1:

Runoff = 0.45 cfs @ 12.08 hrs, Volume= 0.040 af, Depth= 0.30"
Routed to Pond P203-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	9,000	98	Residence
*	3,577	98	Driveway
*	5,319	98	Sand Filter
	52,895	74	>75% Grass cover, Good, HSG C
	70,791	80	Weighted Average
	52,895	74	74.72% Pervious Area
	17,896	98	25.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.2	67	0.1200	5.58		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
5.7	167	Total			

Summary for Subcatchment P203-U2:

Runoff = 0.76 cfs @ 12.08 hrs, Volume= 0.061 af, Depth= 0.46"
Routed to Pond P203-DT : DETENTION (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,173	98	Driveway
*	15,076	98	Detention Basin
	39,786	74	>75% Grass cover, Good, HSG C
	69,835	84	Weighted Average
	39,786	74	56.97% Pervious Area
	30,049	98	43.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.0700	0.29		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.2	63	0.1100	5.34		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
6.0	163	Total			

Summary for Subcatchment P203-U3:

Runoff = 0.14 cfs @ 12.10 hrs, Volume= 0.014 af, Depth= 0.19"
Routed to Pond P203-FB : FOREBAY (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	19,103	89	Gravel Parking Lot
*	871	98	Sediment Forebay
	19,326	74	>75% Grass cover, Good, HSG C
	39,300	82	Weighted Average
	38,429	81	97.78% Pervious Area
	871	98	2.22% Impervious Area

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

Summary for Subcatchment P204B-U1:

Runoff = 0.38 cfs @ 12.11 hrs, Volume= 0.038 af, Depth= 0.24"
Routed to Pond P204B-SF : FILTER (LINED)

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	4,106	98	Driveway
*	1,350	98	Sand Filter
	65,774	74	>75% Grass cover, Good, HSG C
	82,030	79	Weighted Average
	65,774	74	80.18% Pervious Area
	16,256	98	19.82% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.2	55	0.1200	5.58		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
1.5	233	0.0250	2.55		**Shallow Concentrated Flow, Swale**
					Unpaved Kv= 16.1 fps
8.4	388	Total			

Summary for Subcatchment P21.010:

Runoff = 0.04 cfs @ 12.13 hrs, Volume= 0.004 af, Depth= 0.34"
Routed to Pond 21.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,965	98	Pavement
	4,641	74	>75% Grass cover, Good, HSG C
	6,606	81	Weighted Average
	4,641	74	70.25% Pervious Area
	1,965	98	29.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"

Summary for Subcatchment P21.020:

Runoff = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Depth= 0.99"
Routed to Pond 21.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,042	98	Pavement
	1,042	98	100.00% Impervious Area

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

Summary for Subcatchment P22.010:

Runoff = 0.08 cfs @ 12.13 hrs, Volume= 0.015 af, Depth= 0.11"
Routed to Pond 22.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,300	98	Pavement
*	1,800	98	Residence
*	672	98	Driveway
	67,347	74	>75% Grass cover, Good, HSG C
	71,119	75	Weighted Average
	67,347	74	94.70% Pervious Area
	3,772	98	5.30% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.0450	0.24		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
2.4	437	0.0360	3.05		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
9.4	537	Total			

Summary for Subcatchment P23.010:

Runoff = 0.68 cfs @ 12.10 hrs, Volume= 0.057 af, Depth= 0.51"
Routed to Pond 23.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	10,800	98	Residence
*	3,612	98	Assisted Living
*	12,524	98	Driveway
*	1,285	98	Pavement
	30,293	74	>75% Grass cover, Good, HSG C
	58,514	86	Weighted Average
	30,293	74	51.77% Pervious Area
	28,221	98	48.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	100	0.0800	0.30		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	366	0.0570	3.84		**Shallow Concentrated Flow, 95% grass** Unpaved Kv= 16.1 fps
7.1	466	Total			

Summary for Subcatchment P24.010:

Runoff = 0.15 cfs @ 12.15 hrs, Volume= 0.015 af, Depth= 0.36"
Routed to Pond 24.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,562	98	Driveway
	14,626	74	>75% Grass cover, Good, HSG C
*	1,908	98	Pavement
	21,696	82	Weighted Average
	14,626	74	67.41% Pervious Area
	7,070	98	32.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	67	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
1.1	135	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
11.2	302	Total			

Summary for Subcatchment P25.010:

Runoff = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.99"
Routed to Pond 25.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	4,843	98	Pavement
	4,843	98	100.00% Impervious Area

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

Summary for Subcatchment P25.020:

Runoff = 0.20 cfs @ 12.15 hrs, Volume= 0.022 af, Depth= 0.27"
Routed to Pond 25.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,365	98	Driveway
*	4,581	98	Pavement
	32,695	74	>75% Grass cover, Good, HSG C
	42,241	79	Weighted Average
	32,695	74	77.40% Pervious Area
	9,546	98	22.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.5	104	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.8	102	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.9	306	Total			

Summary for Subcatchment P26.010:

Runoff = 0.07 cfs @ 12.11 hrs, Volume= 0.006 af, Depth= 0.40"
Routed to Pond 26.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,800	98	Residence
	5,090	74	>75% Grass cover, Good, HSG C
*	470	98	Pavement
*	707	98	Driveway
	8,067	83	Weighted Average
	5,090	74	63.10% Pervious Area
	2,977	98	36.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.9	100	0.0330	0.21		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.4	87	0.0570	3.84		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
8.3	187	Total			

Summary for Subcatchment P26.015:

Runoff = 0.01 cfs @ 12.07 hrs, Volume= 0.001 af, Depth= 0.99"
Routed to Pond 26.015 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	476	98	Pavement
	476	98	100.00% Impervious Area

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

Summary for Subcatchment P26.020:

Runoff = 0.05 cfs @ 12.07 hrs, Volume= 0.004 af, Depth= 0.99"
Routed to Pond 26.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,936	98	Pavement
	1,936	98	100.00% Impervious Area

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

Summary for Subcatchment P26.030:

Runoff = 0.12 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.99"
Routed to Pond 26.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	4,725	98	Pavement
	4,725	98	100.00% Impervious Area

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

Summary for Subcatchment P27.010:

Runoff = 0.17 cfs @ 12.10 hrs, Volume= 0.015 af, Depth= 0.34"
Routed to Pond 27.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,800	98	Residence
*	732	98	Driveway
	15,918	74	>75% Grass cover, Good, HSG C
*	4,381	98	Pavement
	22,831	81	Weighted Average
	15,918	74	69.72% Pervious Area
	6,913	98	30.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.0500	0.25		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	63	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.4	50	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
7.4	213	Total			

Summary for Subcatchment P28.010:

Runoff = 0.15 cfs @ 12.14 hrs, Volume= 0.015 af, Depth= 0.39"
Routed to Pond 28.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,748	98	Driveway
	12,998	74	>75% Grass cover, Good, HSG C
*	1,788	98	Pavement
	20,134	83	Weighted Average
	12,998	74	64.56% Pervious Area
	7,136	98	35.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	100	0.0200	0.17		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
0.3	35	0.0200	2.28		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.7	127	0.0200	2.87		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
10.6	262	Total			

Summary for Subcatchment P28.020:

Runoff = 0.05 cfs @ 12.07 hrs, Volume= 0.003 af, Depth= 0.99"
Routed to Pond 28.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	1,778	98	Pavement
	1,778	98	100.00% Impervious Area

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

Summary for Subcatchment P28.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 28.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P29.010:

Runoff = 0.18 cfs @ 12.12 hrs, Volume= 0.016 af, Depth= 0.40"
Routed to Pond 29.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,600	98	Residence
*	1,558	98	Driveway
	13,416	74	>75% Grass cover, Good, HSG C
*	2,602	98	Pavement
	21,176	83	Weighted Average
	13,416	74	63.35% Pervious Area
	7,760	98	36.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	100	0.0350	0.22		**Sheet Flow, Grass**
					Grass: Short n= 0.150 P2= 3.30"
0.1	10	0.0400	3.22		**Shallow Concentrated Flow, Grass**
					Unpaved Kv= 16.1 fps
0.7	122	0.0200	2.87		**Shallow Concentrated Flow, Roadway**
					Paved Kv= 20.3 fps
8.5	232	Total			

Summary for Subcatchment P3.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 3.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,600	98	Pavement
	2,600	98	100.00% Impervious Area

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

Summary for Subcatchment P4.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 4.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,608	98	Pavement
	2,608	98	100.00% Impervious Area

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

Summary for Subcatchment P5.010:

Runoff = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Depth= 0.65"
Routed to Pond 5.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	6,272	98	Pavement
	3,653	74	>75% Grass cover, Good, HSG C
	9,925	89	Weighted Average
	3,653	74	36.81% Pervious Area
	6,272	98	63.19% Impervious Area

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

Summary for Subcatchment P5.020:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af, Depth= 0.45"
Routed to Pond 5.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
	3,861	74	>75% Grass cover, Good, HSG C
*	2,746	98	Pavement
	6,607	84	Weighted Average
	3,861	74	58.44% Pervious Area
	2,746	98	41.56% Impervious Area

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

Summary for Subcatchment P6.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 6.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,598	98	Pavement
	2,598	98	100.00% Impervious Area

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

Summary for Subcatchment P7.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 7.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,625	98	Pavement
	2,625	98	100.00% Impervious Area

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

Summary for Subcatchment P8.010:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 8.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,646	98	Pavement
	2,646	98	100.00% Impervious Area

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

Summary for Subcatchment P9.010:

Runoff = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af, Depth= 0.67"
Routed to Pond 9.010 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,258	98	Pavement
*	4,375	98	Driveway
	3,947	74	>75% Grass cover, Good, HSG C
	11,580	90	Weighted Average
	3,947	74	34.08% Pervious Area
	7,633	98	65.92% Impervious Area

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

Summary for Subcatchment P9.020:

Runoff = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af, Depth= 0.99"
Routed to Pond 9.020 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,192	98	Pavement
	2,192	98	100.00% Impervious Area

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

Summary for Subcatchment P9.030:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 9.030 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,586	98	Pavement
	2,586	98	100.00% Impervious Area

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

Summary for Subcatchment P9.040:

Runoff = 0.11 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.43"
Routed to Pond 9.040 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,570	98	Pavement
*	1,648	98	Driveway
	6,243	74	>75% Grass cover, Good, HSG C
	10,461	84	Weighted Average
	6,243	74	59.68% Pervious Area
	4,218	98	40.32% Impervious Area

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

Summary for Subcatchment P9.050:

Runoff = 0.46 cfs @ 12.12 hrs, Volume= 0.042 af, Depth= 0.42"
Routed to Pond 9.050 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	3,077	98	Pavement
*	6,552	98	Tennis
*	9,000	98	Residence
*	1,723	98	Driveway
	31,697	74	>75% Grass cover, Good, HSG C
	52,049	83	Weighted Average
	31,697	74	60.90% Pervious Area
	20,352	98	39.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.3	100	0.0400	0.23		**Sheet Flow, Grass** Grass: Short n= 0.150 P2= 3.30"
1.6	354	0.0500	3.60		**Shallow Concentrated Flow, Grass** Unpaved Kv= 16.1 fps
0.2	20	0.0100	2.03		**Shallow Concentrated Flow, Roadway** Paved Kv= 20.3 fps
9.1	474	Total			

Summary for Subcatchment P9.060:

Runoff = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Depth= 0.99"
Routed to Pond 9.060 :

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Type III 24-hr WQ Rainfall=1.20"

	Area (sf)	CN	Description
*	2,836	98	Pavement
	2,836	98	100.00% Impervious Area

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

Summary for Pond 1.010:

Inflow Area = 0.019 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.02 cfs @ 12.07 hrs, Volume= 0.002 af
Outflow = 0.02 cfs @ 12.07 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min
Primary = 0.02 cfs @ 12.07 hrs, Volume= 0.002 af
Routed to Pond 1.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.28' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.21' / 88.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.02 cfs @ 12.07 hrs HW=88.28' TW=87.64' (Dynamic Tailwater)
↑—**1=12" ADS** (Barrel Controls 0.02 cfs @ 1.27 fps)

Summary for Pond 1.020:

Inflow Area = 0.170 ac, 46.46% Impervious, Inflow Depth = 0.49" for WQ event
Inflow = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af
Outflow = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.09 cfs @ 12.07 hrs, Volume= 0.007 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 87.64' @ 12.07 hrs
Flood Elev= 92.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.51'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.51' / 85.51' S= 0.0101 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.09 cfs @ 12.07 hrs HW=87.64' TW=85.47' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.09 cfs @ 1.22 fps)

Summary for Pond 1.030:

Inflow Area = 0.377 ac, 52.67% Impervious, Inflow Depth = 0.55" for WQ event
Inflow = 0.23 cfs @ 12.07 hrs, Volume= 0.017 af
Outflow = 0.23 cfs @ 12.07 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 12.07 hrs, Volume= 0.017 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.47' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.26'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.26' / 83.19' S= 0.0105 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.22 cfs @ 12.07 hrs HW=85.47' TW=80.69' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.22 cfs @ 1.54 fps)

Summary for Pond 1.040:

Inflow Area = 0.583 ac, 54.48% Impervious, Inflow Depth = 0.57" for WQ event
Inflow = 0.36 cfs @ 12.07 hrs, Volume= 0.027 af
Outflow = 0.36 cfs @ 12.07 hrs, Volume= 0.027 af, Atten= 0%, Lag= 0.0 min
Primary = 0.36 cfs @ 12.07 hrs, Volume= 0.027 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 80.69' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	80.43'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 80.43' / 69.54' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.36 cfs @ 12.07 hrs HW=80.69' TW=67.01' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.36 cfs @ 1.74 fps)

Summary for Pond 1.050:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 0.57" for WQ event
Inflow = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af
Outflow = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af
Routed to Pond 1.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.01' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.70'	**18.0" Round 18" ADS** L= 90.0' Ke= 0.500 Inlet / Outlet Invert= 66.70' / 61.75' S= 0.0550 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.50 cfs @ 12.07 hrs HW=67.01' TW=61.81' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.50 cfs @ 1.89 fps)

Summary for Pond 1.060:

Inflow Area = 0.791 ac, 55.34% Impervious, Inflow Depth = 0.57" for WQ event
Inflow = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af
Outflow = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af, Atten= 0%, Lag= 0.0 min
Primary = 0.50 cfs @ 12.07 hrs, Volume= 0.038 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.81' @ 12.07 hrs
Flood Elev= 67.17'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.50'	**18.0" Round 18" ADS** L= 98.0' Ke= 0.500 Inlet / Outlet Invert= 61.50' / 57.80' S= 0.0378 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.50 cfs @ 12.07 hrs HW=61.81' TW=57.69' (Dynamic Tailwater)
↑—**1=18" ADS** (Inlet Controls 0.50 cfs @ 1.89 fps)

Summary for Pond 1.070:

Inflow Area = 1.294 ac, 55.83% Impervious, Inflow Depth = 0.58" for WQ event
Inflow = 0.82 cfs @ 12.07 hrs, Volume= 0.062 af
Outflow = 0.82 cfs @ 12.07 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
Primary = 0.82 cfs @ 12.07 hrs, Volume= 0.062 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.69' @ 12.07 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.30'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.30' / 57.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.82 cfs @ 12.07 hrs HW=57.69' TW=57.30' (Dynamic Tailwater)
↑—**1=24" ADS** (Barrel Controls 0.82 cfs @ 2.87 fps)

Summary for Pond 1.080:

Inflow Area = 2.377 ac, 47.31% Impervious, Inflow Depth = 0.50" for WQ event
Inflow = 1.24 cfs @ 12.08 hrs, Volume= 0.099 af
Outflow = 1.24 cfs @ 12.08 hrs, Volume= 0.099 af, Atten= 0%, Lag= 0.0 min
Primary = 1.24 cfs @ 12.08 hrs, Volume= 0.099 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.31' @ 12.08 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.85'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 56.85' / 54.87' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.23 cfs @ 12.08 hrs HW=57.31' TW=55.15' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 1.23 cfs @ 2.30 fps)

Summary for Pond 1.090:

Inflow Area = 4.259 ac, 37.28% Impervious, Inflow Depth = 0.41" for WQ event
Inflow = 1.66 cfs @ 12.08 hrs, Volume= 0.144 af
Outflow = 1.66 cfs @ 12.08 hrs, Volume= 0.144 af, Atten= 0%, Lag= 0.0 min
Primary = 1.66 cfs @ 12.08 hrs, Volume= 0.144 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.15' @ 12.08 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.62'	**24.0" Round 24" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 54.62' / 52.64' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.65 cfs @ 12.08 hrs HW=55.15' TW=53.01' (Dynamic Tailwater)
↑—**1=24" ADS** (Inlet Controls 1.65 cfs @ 2.48 fps)

Summary for Pond 1.100:

Inflow Area = 6.301 ac, 34.44% Impervious, Inflow Depth = 0.38" for WQ event
Inflow = 2.15 cfs @ 12.09 hrs, Volume= 0.199 af
Outflow = 2.15 cfs @ 12.09 hrs, Volume= 0.199 af, Atten= 0%, Lag= 0.0 min
Primary = 2.15 cfs @ 12.09 hrs, Volume= 0.199 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.01' @ 12.10 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.39'	**30.0" Round 30" ADS** L= 124.0' Ke= 0.500 Inlet / Outlet Invert= 52.39' / 51.46' S= 0.0075 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=2.15 cfs @ 12.09 hrs HW=53.01' TW=52.23' (Dynamic Tailwater)
1=30" ADS (Outlet Controls 2.15 cfs @ 3.41 fps)

Summary for Pond 1.110: Diversion

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 0.42" for WQ event
Inflow = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af
Outflow = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
Primary = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af
Routed to Pond 1.120 : HS
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P201-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.23' @ 12.09 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	51.21'	**18.0" Round 18" ADS to 201-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 51.21' / 51.11' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#2	Secondary	52.25'	**30.0" Round 30" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 52.25' / 50.25' S= 0.0133 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=3.44 cfs @ 12.09 hrs HW=52.23' TW=51.74' (Dynamic Tailwater)
1=18" ADS to 201-SF Separator (Barrel Controls 3.44 cfs @ 3.81 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=51.21' TW=48.00' (Dynamic Tailwater)
2=30" ADS (Controls 0.00 cfs)

Summary for Pond 1.120: HS

Inflow Area = 8.827 ac, 38.73% Impervious, Inflow Depth = 0.42" for WQ event
Inflow = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af
Outflow = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af, Atten= 0%, Lag= 0.0 min
Primary = 3.44 cfs @ 12.09 hrs, Volume= 0.309 af
Routed to Pond P201-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.74' @ 12.09 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.86'	**18.0" Round 18" ADS** L= 80.0' Ke= 0.500 Inlet / Outlet Invert= 50.86' / 50.00' S= 0.0107 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=3.44 cfs @ 12.09 hrs HW=51.74' TW=47.76' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 3.44 cfs @ 3.19 fps)

Summary for Pond 2.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 86.34' @ 12.07 hrs
Flood Elev= 90.41'

Device	Routing	Invert	Outlet Devices
#1	Primary	86.21'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 86.21' / 86.01' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=86.34' TW=85.47' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.74 fps)

Summary for Pond 3.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 84.02' @ 12.07 hrs
Flood Elev= 88.09'

Device	Routing	Invert	Outlet Devices
#1	Primary	83.89'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 83.89' / 83.69' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=84.02' TW=80.69' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.74 fps)

Summary for Pond 4.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 70.37' @ 12.07 hrs
Flood Elev= 74.44'

Device	Routing	Invert	Outlet Devices
#1	Primary	70.24'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 70.24' / 70.04' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=70.37' TW=67.01' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.74 fps)

Summary for Pond 5.010:

Inflow Area = 0.228 ac, 63.19% Impervious, Inflow Depth = 0.65" for WQ event
Inflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Outflow = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.07 hrs, Volume= 0.012 af
Routed to Pond 5.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.50' @ 12.07 hrs
Flood Elev= 62.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.30'	**12.0" Round 12" ADS** L= 55.0' Ke= 0.500 Inlet / Outlet Invert= 59.30' / 58.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.07 hrs HW=59.50' TW=58.75' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 0.16 cfs @ 1.51 fps)

Summary for Pond 5.020:

Inflow Area = 0.380 ac, 54.55% Impervious, Inflow Depth = 0.57" for WQ event
Inflow = 0.23 cfs @ 12.07 hrs, Volume= 0.018 af
Outflow = 0.23 cfs @ 12.07 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.23 cfs @ 12.07 hrs, Volume= 0.018 af
Routed to Pond 1.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.75' @ 12.07 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.50'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.50' / 58.30' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.23 cfs @ 12.07 hrs HW=58.75' TW=57.69' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.23 cfs @ 2.35 fps)

Summary for Pond 6.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.43' @ 12.07 hrs
Flood Elev= 62.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.30'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.30' / 58.10' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=58.43' TW=57.30' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.74 fps)

Summary for Pond 7.010:

Inflow Area = 0.060 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.090 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.03' @ 12.07 hrs
Flood Elev= 64.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.92'	**20.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 59.92' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 2.18 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=60.03' TW=55.15' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.63 fps)

Summary for Pond 8.010:

Inflow Area = 0.061 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 1.100 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.05' @ 12.07 hrs
Flood Elev= 66.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.92'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.92' / 61.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=62.05' TW=53.00' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.74 fps)

Summary for Pond 9.010:

Inflow Area = 0.266 ac, 65.92% Impervious, Inflow Depth = 0.67" for WQ event
Inflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 9.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.77' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.54'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 85.54' / 85.34' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.20 cfs @ 12.07 hrs HW=85.77' TW=85.31' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.20 cfs @ 2.26 fps)

Summary for Pond 9.020:

Inflow Area = 0.316 ac, 71.34% Impervious, Inflow Depth = 0.72" for WQ event
Inflow = 0.26 cfs @ 12.07 hrs, Volume= 0.019 af
Outflow = 0.26 cfs @ 12.07 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.07 hrs, Volume= 0.019 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 85.31' @ 12.07 hrs
Flood Elev= 89.74'

Device	Routing	Invert	Outlet Devices
#1	Primary	85.09'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 85.09' / 76.29' S= 0.0444 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.26 cfs @ 12.07 hrs HW=85.31' TW=76.39' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.26 cfs @ 1.60 fps)

Summary for Pond 9.030:

Inflow Area = 0.783 ac, 70.43% Impervious, Inflow Depth = 0.71" for WQ event
Inflow = 0.63 cfs @ 12.07 hrs, Volume= 0.047 af
Outflow = 0.63 cfs @ 12.07 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min
Primary = 0.63 cfs @ 12.07 hrs, Volume= 0.047 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 76.39' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.04'	**18.0" Round 18" ADS** L= 195.0' Ke= 0.500 Inlet / Outlet Invert= 76.04' / 65.39' S= 0.0546 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.63 cfs @ 12.07 hrs HW=76.39' TW=65.54' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.63 cfs @ 2.01 fps)

Summary for Pond 9.040:

Inflow Area = 1.265 ac, 56.56% Impervious, Inflow Depth = 0.58" for WQ event
Inflow = 0.81 cfs @ 12.07 hrs, Volume= 0.062 af
Outflow = 0.81 cfs @ 12.07 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min
Primary = 0.81 cfs @ 12.07 hrs, Volume= 0.062 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.54' @ 12.07 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.14'	**18.0" Round 18" ADS** L= 190.0' Ke= 0.500 Inlet / Outlet Invert= 65.14' / 61.24' S= 0.0205 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.80 cfs @ 12.07 hrs HW=65.54' TW=61.50' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.80 cfs @ 2.15 fps)

Summary for Pond 9.050:

Inflow Area = 2.525 ac, 49.42% Impervious, Inflow Depth = 0.52" for WQ event
Inflow = 1.29 cfs @ 12.08 hrs, Volume= 0.109 af
Outflow = 1.29 cfs @ 12.08 hrs, Volume= 0.109 af, Atten= 0%, Lag= 0.0 min
Primary = 1.29 cfs @ 12.08 hrs, Volume= 0.109 af
Routed to Pond 1.110 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.50' @ 12.08 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.99'	**18.0" Round 18" ADS** L= 92.0' Ke= 0.500 Inlet / Outlet Invert= 60.99' / 56.39' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=1.29 cfs @ 12.08 hrs HW=61.50' TW=52.23' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 1.29 cfs @ 2.43 fps)

Summary for Pond 9.060:

Inflow Area = 0.065 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 9.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.05' @ 12.07 hrs
Flood Elev= 68.12'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.92'	**12.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.92' / 62.92' S= 0.0500 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=64.05' TW=61.50' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.07 cfs @ 1.23 fps)

Summary for Pond 10.010:

Inflow Area = 0.408 ac, 65.43% Impervious, Inflow Depth = 0.67" for WQ event
Inflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Outflow = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min
Primary = 0.30 cfs @ 12.07 hrs, Volume= 0.023 af
Routed to Pond 9.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 77.27' @ 12.07 hrs
Flood Elev= 81.19'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.99'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.99' / 76.79' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.30 cfs @ 12.07 hrs HW=77.27' TW=76.39' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.30 cfs @ 2.49 fps)

Summary for Pond 11.010:

Inflow Area = 0.242 ac, 27.76% Impervious, Inflow Depth = 0.32" for WQ event
Inflow = 0.07 cfs @ 12.09 hrs, Volume= 0.006 af
Outflow = 0.07 cfs @ 12.09 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.09 hrs, Volume= 0.006 af
Routed to Pond 9.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.22' @ 12.09 hrs
Flood Elev= 70.29'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.09'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.09' / 65.89' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.09 hrs HW=66.22' TW=65.53' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.76 fps)

Summary for Pond 12.010:

Inflow Area = 2.589 ac, 23.84% Impervious, Inflow Depth = 0.28" for WQ event
Inflow = 0.62 cfs @ 12.12 hrs, Volume= 0.061 af
Outflow = 0.62 cfs @ 12.12 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min
Primary = 0.62 cfs @ 12.12 hrs, Volume= 0.061 af
Routed to Pond 12.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.80' @ 12.12 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.47'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.47' / 61.27' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.62 cfs @ 12.12 hrs HW=61.80' TW=61.36' (Dynamic Tailwater)
1=24" ADS (Barrel Controls 0.62 cfs @ 2.71 fps)

Summary for Pond 12.020:

Inflow Area = 2.700 ac, 26.97% Impervious, Inflow Depth = 0.31" for WQ event
Inflow = 0.72 cfs @ 12.11 hrs, Volume= 0.070 af
Outflow = 0.72 cfs @ 12.11 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min
Primary = 0.72 cfs @ 12.11 hrs, Volume= 0.070 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.37' @ 12.11 hrs
Flood Elev= 66.67'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.02'	**24.0" Round 24" ADS** L= 148.0' Ke= 0.500 Inlet / Outlet Invert= 61.02' / 59.57' S= 0.0098 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.72 cfs @ 12.11 hrs HW=61.37' TW=59.61' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 0.72 cfs @ 2.00 fps)

Summary for Pond 12.030:

Inflow Area = 3.346 ac, 28.43% Impervious, Inflow Depth = 0.32" for WQ event
Inflow = 0.91 cfs @ 12.11 hrs, Volume= 0.090 af
Outflow = 0.91 cfs @ 12.11 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min
Primary = 0.91 cfs @ 12.11 hrs, Volume= 0.090 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.61' @ 12.11 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**24.0" Round 24" ADS** L= 132.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 57.90' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.91 cfs @ 12.11 hrs HW=59.61' TW=57.84' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 0.91 cfs @ 2.12 fps)

Summary for Pond 12.040:

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 0.35" for WQ event
Inflow = 1.31 cfs @ 12.10 hrs, Volume= 0.127 af
Outflow = 1.31 cfs @ 12.10 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 1.31 cfs @ 12.10 hrs, Volume= 0.127 af
Routed to Pond 12.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.84' @ 12.10 hrs
Flood Elev= 69.82'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**30.0" Round 30" ADS** L= 104.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.36' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=1.31 cfs @ 12.10 hrs HW=57.84' TW=56.68' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 1.31 cfs @ 2.26 fps)

Summary for Pond 12.050: Diversion

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 0.35" for WQ event
Inflow = 1.31 cfs @ 12.10 hrs, Volume= 0.127 af
Outflow = 1.31 cfs @ 12.10 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.10 hrs, Volume= 0.127 af
Routed to Pond 12.060 : HS
Secondary = 0.00 cfs @ 12.10 hrs, Volume= 0.000 af
Routed to Pond P203-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.68' @ 12.10 hrs
Flood Elev= 63.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	56.00'	**12.0" Round 12" ADS To P203-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 56.00' / 55.90' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Secondary	56.65'	**30.0" Round 30" ADS** L= 111.0' Ke= 0.500 Inlet / Outlet Invert= 56.65' / 54.00' S= 0.0239 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=1.30 cfs @ 12.10 hrs HW=56.68' TW=56.25' (Dynamic Tailwater)
1=12" ADS To P203-SF Separator (Barrel Controls 1.30 cfs @ 3.26 fps)

Secondary OutFlow Max=0.00 cfs @ 12.10 hrs HW=56.68' TW=51.53' (Dynamic Tailwater)
2=30" ADS (Inlet Controls 0.00 cfs @ 0.55 fps)

Summary for Pond 12.060: HS

Inflow Area = 4.398 ac, 30.96% Impervious, Inflow Depth = 0.35" for WQ event
Inflow = 1.30 cfs @ 12.10 hrs, Volume= 0.127 af
Outflow = 1.30 cfs @ 12.10 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min
Primary = 1.30 cfs @ 12.10 hrs, Volume= 0.127 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.25' @ 12.10 hrs
Flood Elev= 62.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.65'	**12.0" Round 12" ADS** L= 72.0' Ke= 0.500 Inlet / Outlet Invert= 55.65' / 54.00' S= 0.0229 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=1.30 cfs @ 12.10 hrs HW=56.25' TW=50.09' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 1.30 cfs @ 2.64 fps)

Summary for Pond 13.010:

Inflow Area = 0.586 ac, 27.82% Impervious, Inflow Depth = 0.32" for WQ event
Inflow = 0.15 cfs @ 12.17 hrs, Volume= 0.016 af
Outflow = 0.15 cfs @ 12.17 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.15 cfs @ 12.17 hrs, Volume= 0.016 af
Routed to Pond 12.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 63.75' @ 12.17 hrs
Flood Elev= 68.28'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.58'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 63.58' / 63.38' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.15 cfs @ 12.17 hrs HW=63.75' TW=59.59' (Dynamic Tailwater)
1=18" ADS (Barrel Controls 0.15 cfs @ 2.01 fps)

Summary for Pond 14.010:

Inflow Area = 0.370 ac, 46.30% Impervious, Inflow Depth = 0.49" for WQ event
Inflow = 0.19 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.19 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 14.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.86' @ 12.07 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.66'	**18.0" Round 18" ADS** L= 20.0' Ke= 0.500

Inlet / Outlet Invert= 65.66' / 65.46' S= 0.0100 '/' Cc= 0.900
n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.19 cfs @ 12.07 hrs HW=65.86' TW=65.44' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 0.19 cfs @ 2.15 fps)

Summary for Pond 14.020:

Inflow Area = 0.611 ac, 37.49% Impervious, Inflow Depth = 0.41" for WQ event
Inflow = 0.26 cfs @ 12.07 hrs, Volume= 0.021 af
Outflow = 0.26 cfs @ 12.07 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min
Primary = 0.26 cfs @ 12.07 hrs, Volume= 0.021 af
Routed to Pond 14.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.44' @ 12.07 hrs
Flood Elev= 70.36'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.21'	**18.0" Round 18" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 65.21' / 65.03' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.26 cfs @ 12.07 hrs HW=65.44' TW=65.04' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 0.26 cfs @ 2.28 fps)

Summary for Pond 14.030:

Inflow Area = 0.991 ac, 35.25% Impervious, Inflow Depth = 0.39" for WQ event
Inflow = 0.34 cfs @ 12.08 hrs, Volume= 0.032 af
Outflow = 0.34 cfs @ 12.08 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min
Primary = 0.34 cfs @ 12.08 hrs, Volume= 0.032 af
Routed to Pond 12.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.04' @ 12.08 hrs
Flood Elev= 69.95'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.78'	**18.0" Round 18" ADS** L= 24.0' Ke= 0.500 Inlet / Outlet Invert= 64.78' / 64.53' S= 0.0104 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.34 cfs @ 12.08 hrs HW=65.04' TW=57.83' (Dynamic Tailwater)
↑—**1=18" ADS** (Barrel Controls 0.34 cfs @ 2.53 fps)

Summary for Pond 15.010:

Inflow Area = 0.035 ac, 73.21% Impervious, Inflow Depth = 0.74" for WQ event
Inflow = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af
Outflow = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af, Atten= 0%, Lag= 0.0 min
Primary = 0.03 cfs @ 12.07 hrs, Volume= 0.002 af
Routed to Pond 15.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 88.35' @ 12.07 hrs
Flood Elev= 92.47'

Device	Routing	Invert	Outlet Devices
#1	Primary	88.27'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 88.27' / 88.07' S= 0.0100 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.03 cfs @ 12.07 hrs HW=88.35' TW=87.97' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.03 cfs @ 1.38 fps)

Summary for Pond 15.020:

Inflow Area = 0.098 ac, 52.25% Impervious, Inflow Depth = 0.54" for WQ event
Inflow = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af
Outflow = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.07 hrs, Volume= 0.004 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 87.97' @ 12.07 hrs
Flood Elev= 92.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	87.87'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 87.87' / 76.44' S= 0.0577 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.06 cfs @ 12.07 hrs HW=87.97' TW=75.94' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.06 cfs @ 1.09 fps)

Summary for Pond 15.040:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 0.53" for WQ event
Inflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 68.27' @ 12.07 hrs
Flood Elev= 72.99'

Device	Routing	Invert	Outlet Devices
#1	Primary	68.08'	**18.0" Round 18" ADS** L= 65.0' Ke= 0.500 Inlet / Outlet Invert= 68.08' / 64.49' S= 0.0552 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.20 cfs @ 12.07 hrs HW=68.27' TW=64.22' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.20 cfs @ 1.50 fps)

Summary for Pond 15.050:

Inflow Area = 0.499 ac, 58.33% Impervious, Inflow Depth = 0.60" for WQ event
Inflow = 0.33 cfs @ 12.07 hrs, Volume= 0.025 af
Outflow = 0.33 cfs @ 12.07 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min
Primary = 0.33 cfs @ 12.07 hrs, Volume= 0.025 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.22' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	63.99'	**24.0" Round 24" ADS** L= 96.0' Ke= 0.500 Inlet / Outlet Invert= 63.99' / 58.57' S= 0.0565 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.33 cfs @ 12.07 hrs HW=64.22' TW=58.73' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 0.33 cfs @ 1.64 fps)

Summary for Pond 15.055:

Inflow Area = 1.872 ac, 51.75% Impervious, Inflow Depth = 0.54" for WQ event
Inflow = 1.03 cfs @ 12.09 hrs, Volume= 0.084 af
Outflow = 1.03 cfs @ 12.09 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.0 min
Primary = 1.03 cfs @ 12.09 hrs, Volume= 0.084 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.73' @ 12.09 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.32'	**24.0" Round 24" ADS** L= 95.0' Ke= 0.500 Inlet / Outlet Invert= 58.32' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.03 cfs @ 12.09 hrs HW=58.73' TW=57.60' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 1.03 cfs @ 2.19 fps)

Summary for Pond 15.060:

Inflow Area = 4.297 ac, 30.98% Impervious, Inflow Depth = 0.35" for WQ event
Inflow = 1.40 cfs @ 12.09 hrs, Volume= 0.125 af
Outflow = 1.40 cfs @ 12.09 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min
Primary = 1.40 cfs @ 12.09 hrs, Volume= 0.125 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.61' @ 12.09 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.12'	**24.0" Round 24" ADS** L= 97.0' Ke= 0.500 Inlet / Outlet Invert= 57.12' / 56.15' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.39 cfs @ 12.09 hrs HW=57.60' TW=56.40' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 1.39 cfs @ 2.37 fps)

Summary for Pond 15.065:

Inflow Area = 5.959 ac, 24.29% Impervious, Inflow Depth = 0.29" for WQ event
Inflow = 1.51 cfs @ 12.09 hrs, Volume= 0.142 af
Outflow = 1.51 cfs @ 12.09 hrs, Volume= 0.142 af, Atten= 0%, Lag= 0.0 min
Primary = 1.51 cfs @ 12.09 hrs, Volume= 0.142 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.41' @ 12.09 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.90'	**24.0" Round 24" ADS** L= 62.0' Ke= 0.500 Inlet / Outlet Invert= 55.90' / 55.28' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=1.51 cfs @ 12.09 hrs HW=56.40' TW=55.07' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 1.51 cfs @ 2.42 fps)

Summary for Pond 15.070:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 0.31" for WQ event
Inflow = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af
Outflow = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af, Atten= 0%, Lag= 0.0 min
Primary = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af
Routed to Pond 15.080 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.07' @ 12.10 hrs
Flood Elev= 64.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.55'	**30.0" Round 30" ADS** L= 125.0' Ke= 0.500 Inlet / Outlet Invert= 54.55' / 52.80' S= 0.0140 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=1.82 cfs @ 12.10 hrs HW=55.07' TW=53.07' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 1.82 cfs @ 2.46 fps)

Summary for Pond 15.080:

Inflow Area = 6.749 ac, 26.58% Impervious, Inflow Depth = 0.31" for WQ event
Inflow = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af
Outflow = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af, Atten= 0%, Lag= 0.0 min
Primary = 1.82 cfs @ 12.10 hrs, Volume= 0.173 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 53.07' @ 12.10 hrs
Flood Elev= 57.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	52.55'	**30.0" Round 30" ADS** L= 182.0' Ke= 0.500 Inlet / Outlet Invert= 52.55' / 50.73' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 4.91 sf

Primary OutFlow Max=1.82 cfs @ 12.10 hrs HW=53.07' TW=51.43' (Dynamic Tailwater)
1=30" ADS (Inlet Controls 1.82 cfs @ 2.46 fps)

Summary for Pond 15.090: Diversion

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 0.31" for WQ event
Inflow = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af
Outflow = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af, Atten= 0%, Lag= 0.0 min
Primary = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af
Routed to Pond 15.100 : HS
Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.43' @ 12.10 hrs
Flood Elev= 56.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.48'	**12.0" Round 12" ADS to 202A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 50.48' / 50.38' S= 0.0200 '/' Cc= 0.900

n= 0.012, Flow Area= 0.79 sf

#2	Secondary	51.45'	**36.0" Round 36" ADS** L= 145.0' Ke= 0.500 Inlet / Outlet Invert= 51.45' / 46.00' S= 0.0376 '/' Cc= 0.900 n= 0.012, Flow Area= 7.07 sf

Primary OutFlow Max=2.19 cfs @ 12.10 hrs HW=51.43' TW=50.97' (Dynamic Tailwater)
1=12" ADS to 202A-SF Separator (Barrel Controls 2.19 cfs @ 3.68 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=50.48' TW=46.00' (Dynamic Tailwater)
2=36" ADS (Controls 0.00 cfs)

Summary for Pond 15.100: HS

Inflow Area = 8.005 ac, 27.40% Impervious, Inflow Depth = 0.31" for WQ event
Inflow = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af
Outflow = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af, Atten= 0%, Lag= 0.0 min
Primary = 2.20 cfs @ 12.10 hrs, Volume= 0.210 af
Routed to Pond P202A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.97' @ 12.10 hrs
Flood Elev= 56.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	50.13'	**12.0" Round 12" ADS** L= 60.0' Ke= 0.500 Inlet / Outlet Invert= 50.13' / 48.00' S= 0.0355 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=2.19 cfs @ 12.10 hrs HW=50.97' TW=44.27' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 2.19 cfs @ 3.12 fps)

Summary for Pond 16.010:

Inflow Area = 0.100 ac, 65.05% Impervious, Inflow Depth = 0.66" for WQ event
Inflow = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af
Outflow = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.07 hrs, Volume= 0.006 af
Routed to Pond 16.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 76.83' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	76.70'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 76.70' / 76.50' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.07 hrs HW=76.83' TW=75.94' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.07 cfs @ 1.77 fps)

Summary for Pond 16.030:

Inflow Area = 0.344 ac, 51.00% Impervious, Inflow Depth = 0.53" for WQ event
Inflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Outflow = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.20 cfs @ 12.07 hrs, Volume= 0.015 af
Routed to Pond 15.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 75.94' @ 12.07 hrs
Flood Elev= 80.90'

Device	Routing	Invert	Outlet Devices
#1	Primary	75.75'	**18.0" Round 18" ADS** L= 130.0' Ke= 0.500 Inlet / Outlet Invert= 75.75' / 68.33' S= 0.0571 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.20 cfs @ 12.07 hrs HW=75.94' TW=68.27' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.20 cfs @ 1.50 fps)

Summary for Pond 17.010:

Inflow Area = 0.063 ac, 87.39% Impervious, Inflow Depth = 0.87" for WQ event
Inflow = 0.06 cfs @ 12.07 hrs, Volume= 0.005 af
Outflow = 0.06 cfs @ 12.07 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min
Primary = 0.06 cfs @ 12.07 hrs, Volume= 0.005 af
Routed to Pond 15.050 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.31' @ 12.07 hrs
Flood Elev= 69.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.19' / 64.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.06 cfs @ 12.07 hrs HW=65.31' TW=64.22' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.06 cfs @ 1.70 fps)

Summary for Pond 18.010:

Inflow Area = 2.365 ac, 12.80% Impervious, Inflow Depth = 0.18" for WQ event
Inflow = 0.31 cfs @ 12.11 hrs, Volume= 0.035 af
Outflow = 0.31 cfs @ 12.11 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.11 hrs, Volume= 0.035 af
Routed to Pond 15.060 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 57.81' @ 12.11 hrs
Flood Elev= 61.77'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.57'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 57.57' / 57.37' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.31 cfs @ 12.11 hrs HW=57.81' TW=57.60' (Dynamic Tailwater)
↑**1=24" ADS** (Outlet Controls 0.31 cfs @ 2.16 fps)

Summary for Pond 19.010:

Inflow Area = 0.215 ac, 39.41% Impervious, Inflow Depth = 0.43" for WQ event
Inflow = 0.08 cfs @ 12.14 hrs, Volume= 0.008 af
Outflow = 0.08 cfs @ 12.14 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min
Primary = 0.08 cfs @ 12.14 hrs, Volume= 0.008 af
Routed to Pond 19.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 65.15' @ 12.14 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 65.01' / 64.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.08 cfs @ 12.14 hrs HW=65.15' TW=64.45' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.08 cfs @ 1.82 fps)

Summary for Pond 19.020:

Inflow Area = 0.244 ac, 46.63% Impervious, Inflow Depth = 0.49" for WQ event
Inflow = 0.11 cfs @ 12.11 hrs, Volume= 0.010 af
Outflow = 0.11 cfs @ 12.11 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min
Primary = 0.11 cfs @ 12.11 hrs, Volume= 0.010 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 64.45' @ 12.11 hrs
Flood Elev= 69.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	64.31'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 64.31' / 60.31' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.11 cfs @ 12.11 hrs HW=64.45' TW=60.31' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.11 cfs @ 1.28 fps)

Summary for Pond 19.030:

Inflow Area = 0.790 ac, 43.90% Impervious, Inflow Depth = 0.47" for WQ event
Inflow = 0.32 cfs @ 12.12 hrs, Volume= 0.031 af
Outflow = 0.32 cfs @ 12.12 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.32 cfs @ 12.12 hrs, Volume= 0.031 af
Routed to Pond 15.070 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.31' @ 12.12 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.06'	**18.0" Round 18" ADS** L= 32.0' Ke= 0.500 Inlet / Outlet Invert= 60.06' / 59.42' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.32 cfs @ 12.12 hrs HW=60.31' TW=55.06' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.32 cfs @ 1.69 fps)

Summary for Pond 20.010:

Inflow Area = 0.486 ac, 35.64% Impervious, Inflow Depth = 0.39" for WQ event
Inflow = 0.16 cfs @ 12.14 hrs, Volume= 0.016 af
Outflow = 0.16 cfs @ 12.14 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.16 cfs @ 12.14 hrs, Volume= 0.016 af
Routed to Pond 19.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.21' @ 12.14 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.01'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.01' / 60.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.16 cfs @ 12.14 hrs HW=61.21' TW=60.30' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.16 cfs @ 2.16 fps)

Summary for Pond 21.010:

Inflow Area = 0.152 ac, 29.75% Impervious, Inflow Depth = 0.34" for WQ event
Inflow = 0.04 cfs @ 12.13 hrs, Volume= 0.004 af
Outflow = 0.04 cfs @ 12.13 hrs, Volume= 0.004 af, Atten= 0%, Lag= 0.0 min
Primary = 0.04 cfs @ 12.13 hrs, Volume= 0.004 af
Routed to Pond 21.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.75' @ 12.13 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	67.65'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 67.65' / 67.45' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.04 cfs @ 12.13 hrs HW=67.75' TW=67.01' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.04 cfs @ 1.55 fps)

Summary for Pond 21.020:

Inflow Area = 0.176 ac, 39.32% Impervious, Inflow Depth = 0.42" for WQ event
Inflow = 0.07 cfs @ 12.10 hrs, Volume= 0.006 af
Outflow = 0.07 cfs @ 12.10 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.10 hrs, Volume= 0.006 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 67.01' @ 12.10 hrs
Flood Elev= 71.85'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.90'	**18.0" Round 18" ADS** L= 146.0' Ke= 0.500 Inlet / Outlet Invert= 66.90' / 58.60' S= 0.0568 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.07 cfs @ 12.10 hrs HW=67.01' TW=58.35' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.07 cfs @ 1.14 fps)

Summary for Pond 21.030:

Inflow Area = 1.256 ac, 31.78% Impervious, Inflow Depth = 0.36" for WQ event
Inflow = 0.37 cfs @ 12.11 hrs, Volume= 0.037 af
Outflow = 0.37 cfs @ 12.11 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min
Primary = 0.37 cfs @ 12.11 hrs, Volume= 0.037 af
Routed to Pond 15.090 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 58.35' @ 12.11 hrs
Flood Elev= 65.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.10'	**24.0" Round 24" ADS** L= 172.0' Ke= 0.500 Inlet / Outlet Invert= 58.10' / 52.25' S= 0.0340 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.37 cfs @ 12.11 hrs HW=58.35' TW=51.42' (Dynamic Tailwater)
↑**1=24" ADS** (Inlet Controls 0.37 cfs @ 1.69 fps)

Summary for Pond 22.010:

Inflow Area = 1.633 ac, 5.30% Impervious, Inflow Depth = 0.11" for WQ event
Inflow = 0.08 cfs @ 12.13 hrs, Volume= 0.015 af
Outflow = 0.08 cfs @ 12.13 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.08 cfs @ 12.13 hrs, Volume= 0.015 af
Routed to Pond 15.065 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.13' @ 12.13 hrs
Flood Elev= 63.21'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.01'	**24.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.01' / 57.81' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.08 cfs @ 12.13 hrs HW=58.13' TW=56.39' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.08 cfs @ 1.69 fps)

Summary for Pond 23.010:

Inflow Area = 1.343 ac, 48.23% Impervious, Inflow Depth = 0.51" for WQ event
Inflow = 0.68 cfs @ 12.10 hrs, Volume= 0.057 af
Outflow = 0.68 cfs @ 12.10 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min
Primary = 0.68 cfs @ 12.10 hrs, Volume= 0.057 af
Routed to Pond 15.055 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.12' @ 12.10 hrs
Flood Elev= 63.84'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.77'	**24.0" Round 24" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.77' / 58.57' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.68 cfs @ 12.10 hrs HW=59.12' TW=58.73' (Dynamic Tailwater)
↑**1=24" ADS** (Barrel Controls 0.68 cfs @ 2.77 fps)

Summary for Pond 24.010:

Inflow Area = 0.498 ac, 32.59% Impervious, Inflow Depth = 0.36" for WQ event
Inflow = 0.15 cfs @ 12.15 hrs, Volume= 0.015 af
Outflow = 0.15 cfs @ 12.15 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.15 cfs @ 12.15 hrs, Volume= 0.015 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 60.19' @ 12.15 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.00'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 60.00' / 59.70' S= 0.0150 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.15 hrs HW=60.19' TW=59.22' (Dynamic Tailwater)
↑**1=12" ADS** (Inlet Controls 0.15 cfs @ 1.47 fps)

Summary for Pond 25.010:

Inflow Area = 0.111 ac,100.00% Impervious, Inflow Depth = 0.99" for WQ event
Inflow = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af
Outflow = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af, Atten= 0%, Lag= 0.0 min
Primary = 0.13 cfs @ 12.07 hrs, Volume= 0.009 af
Routed to Pond 25.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.08' @ 12.07 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.90'	**12.0" Round 12" ADS** L= 18.0' Ke= 0.500 Inlet / Outlet Invert= 59.90' / 59.72' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.13 cfs @ 12.07 hrs HW=60.08' TW=59.45' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.13 cfs @ 2.01 fps)

Summary for Pond 25.020:

Inflow Area = 1.081 ac, 30.56% Impervious, Inflow Depth = 0.34" for WQ event
Inflow = 0.31 cfs @ 12.11 hrs, Volume= 0.031 af
Outflow = 0.31 cfs @ 12.11 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min
Primary = 0.31 cfs @ 12.11 hrs, Volume= 0.031 af
Routed to Pond 21.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.46' @ 12.11 hrs
Flood Elev= 64.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.22'	**18.0" Round 18" ADS** L= 61.0' Ke= 0.500 Inlet / Outlet Invert= 59.22' / 58.60' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.31 cfs @ 12.11 hrs HW=59.46' TW=58.35' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.31 cfs @ 1.67 fps)

Summary for Pond 26.010:

Inflow Area = 0.185 ac, 36.90% Impervious, Inflow Depth = 0.40" for WQ event
Inflow = 0.07 cfs @ 12.11 hrs, Volume= 0.006 af
Outflow = 0.07 cfs @ 12.11 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min
Primary = 0.07 cfs @ 12.11 hrs, Volume= 0.006 af
Routed to Pond 26.015 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 61.32' @ 12.11 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.19'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 61.19' / 60.99' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.07 cfs @ 12.11 hrs HW=61.32' TW=60.87' (Dynamic Tailwater)
↑**1=12" ADS** (Barrel Controls 0.07 cfs @ 1.75 fps)

Summary for Pond 26.015:

Inflow Area = 0.196 ac, 40.42% Impervious, Inflow Depth = 0.44" for WQ event
Inflow = 0.08 cfs @ 12.11 hrs, Volume= 0.007 af
Outflow = 0.08 cfs @ 12.11 hrs, Volume= 0.007 af, Atten= 0%, Lag= 0.0 min
Primary = 0.08 cfs @ 12.11 hrs, Volume= 0.007 af
Routed to Pond 26.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 60.87' @ 12.11 hrs
Flood Elev= 65.39'

Device	Routing	Invert	Outlet Devices
#1	Primary	60.74'	**18.0" Round 18" ADS** L= 186.0' Ke= 0.500 Inlet / Outlet Invert= 60.74' / 59.25' S= 0.0080 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.08 cfs @ 12.11 hrs HW=60.87' TW=59.22' (Dynamic Tailwater)
↑**1=18" ADS** (Barrel Controls 0.08 cfs @ 1.70 fps)

Summary for Pond 26.020:

Inflow Area = 0.739 ac, 38.72% Impervious, Inflow Depth = 0.42" for WQ event
Inflow = 0.27 cfs @ 12.12 hrs, Volume= 0.026 af
Outflow = 0.27 cfs @ 12.12 hrs, Volume= 0.026 af, Atten= 0%, Lag= 0.0 min
Primary = 0.27 cfs @ 12.12 hrs, Volume= 0.026 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 59.22' @ 12.12 hrs
Flood Elev= 64.20'

Device	Routing	Invert	Outlet Devices
#1	Primary	59.00'	**18.0" Round 18" ADS** L= 150.0' Ke= 0.500 Inlet / Outlet Invert= 59.00' / 57.65' S= 0.0090 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.27 cfs @ 12.12 hrs HW=59.22' TW=57.72' (Dynamic Tailwater)
↑**1=18" ADS** (Inlet Controls 0.27 cfs @ 1.61 fps)

Summary for Pond 26.030:

Inflow Area = 1.371 ac, 40.34% Impervious, Inflow Depth = 0.43" for WQ event
Inflow = 0.54 cfs @ 12.10 hrs, Volume= 0.050 af
Outflow = 0.54 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min
Primary = 0.54 cfs @ 12.10 hrs, Volume= 0.050 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Peak Elev= 57.72' @ 12.10 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	57.40'	**18.0" Round 18" ADS** L= 64.0' Ke= 0.500 Inlet / Outlet Invert= 57.40' / 56.75' S= 0.0102 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.54 cfs @ 12.10 hrs HW=57.72' TW=56.15' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.54 cfs @ 1.94 fps)

Summary for Pond 26.040:

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 0.44" for WQ event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Routed to Pond 26.050 : Diversion

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 56.15' @ 12.10 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	55.75'	**24.0" Round 24" ADS** L= 100.0' Ke= 0.500 Inlet / Outlet Invert= 55.75' / 54.75' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.97 cfs @ 12.10 hrs HW=56.15' TW=55.21' (Dynamic Tailwater)
1=24" ADS (Inlet Controls 0.97 cfs @ 2.16 fps)

Summary for Pond 26.050: Diversion

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 0.44" for WQ event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Routed to Pond 26.060 : HS
Secondary = 0.00 cfs @ 12.10 hrs, Volume= 0.000 af
Routed to Pond P204A-DT : DETENTION

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 55.21' @ 12.10 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.50'	**8.0" Round 8" ADS to P204A-SF Separator** L= 5.0' Ke= 0.500 Inlet / Outlet Invert= 54.50' / 54.40' S= 0.0200 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf
#2	Secondary	55.20'	**24.0" Round 24" ADS** L= 70.0' Ke= 0.500 Inlet / Outlet Invert= 55.20' / 52.00' S= 0.0457 '/' Cc= 0.900 n= 0.012, Flow Area= 3.14 sf

Primary OutFlow Max=0.97 cfs @ 12.10 hrs HW=55.21' TW=54.81' (Dynamic Tailwater)
1=8" ADS to P204A-SF Separator (Barrel Controls 0.97 cfs @ 3.26 fps)

Secondary OutFlow Max=0.00 cfs @ 12.10 hrs HW=55.21' TW=47.01' (Dynamic Tailwater)
2=24" ADS (Inlet Controls 0.00 cfs @ 0.26 fps)

Summary for Pond 26.060: HS

Inflow Area = 2.420 ac, 41.14% Impervious, Inflow Depth = 0.44" for WQ event
Inflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Outflow = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af, Atten= 0%, Lag= 0.0 min
Primary = 0.97 cfs @ 12.10 hrs, Volume= 0.089 af
Routed to Pond P204A-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 54.82' @ 12.10 hrs
Flood Elev= 59.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	54.15'	**8.0" Round 8" ADS** L= 88.0' Ke= 0.500 Inlet / Outlet Invert= 54.15' / 52.00' S= 0.0244 '/' Cc= 0.900 n= 0.012, Flow Area= 0.35 sf

Primary OutFlow Max=0.97 cfs @ 12.10 hrs HW=54.81' TW=48.16' (Dynamic Tailwater)
1=8" ADS (Inlet Controls 0.97 cfs @ 2.77 fps)

Summary for Pond 27.010:

Inflow Area = 0.524 ac, 30.28% Impervious, Inflow Depth = 0.34" for WQ event
Inflow = 0.17 cfs @ 12.10 hrs, Volume= 0.015 af
Outflow = 0.17 cfs @ 12.10 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.17 cfs @ 12.10 hrs, Volume= 0.015 af
Routed to Pond 26.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 58.83' @ 12.10 hrs
Flood Elev= 62.83'

Device	Routing	Invert	Outlet Devices
#1	Primary	58.63'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 58.63' / 58.15' S= 0.0240 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.17 cfs @ 12.10 hrs HW=58.83' TW=57.72' (Dynamic Tailwater)
1=12" ADS (Inlet Controls 0.17 cfs @ 1.51 fps)

Summary for Pond 28.010:

Inflow Area = 0.462 ac, 35.44% Impervious, Inflow Depth = 0.39" for WQ event
Inflow = 0.15 cfs @ 12.14 hrs, Volume= 0.015 af
Outflow = 0.15 cfs @ 12.14 hrs, Volume= 0.015 af, Atten= 0%, Lag= 0.0 min
Primary = 0.15 cfs @ 12.14 hrs, Volume= 0.015 af
Routed to Pond 28.020 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 66.32' @ 12.14 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	66.12'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 66.12' / 65.92' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.15 cfs @ 12.14 hrs HW=66.32' TW=65.61' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.15 cfs @ 2.13 fps)

Summary for Pond 28.020:

Inflow Area = 0.503 ac, 40.68% Impervious, Inflow Depth = 0.44" for WQ event
Inflow = 0.19 cfs @ 12.12 hrs, Volume= 0.018 af
Outflow = 0.19 cfs @ 12.12 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min
Primary = 0.19 cfs @ 12.12 hrs, Volume= 0.018 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 65.61' @ 12.12 hrs
Flood Elev= 70.32'

Device	Routing	Invert	Outlet Devices
#1	Primary	65.42'	**18.0" Round 18" ADS** L= 198.0' Ke= 0.500 Inlet / Outlet Invert= 65.42' / 61.43' S= 0.0202 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.19 cfs @ 12.12 hrs HW=65.61' TW=61.46' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.19 cfs @ 1.48 fps)

Summary for Pond 28.030:

Inflow Area = 1.049 ac, 42.18% Impervious, Inflow Depth = 0.45" for WQ event
Inflow = 0.43 cfs @ 12.11 hrs, Volume= 0.039 af
Outflow = 0.43 cfs @ 12.11 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min
Primary = 0.43 cfs @ 12.11 hrs, Volume= 0.039 af
Routed to Pond 26.040 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 61.47' @ 12.11 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	61.18'	**18.0" Round 18" ADS** L= 138.0' Ke= 0.500 Inlet / Outlet Invert= 61.18' / 56.75' S= 0.0321 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=0.43 cfs @ 12.11 hrs HW=61.47' TW=56.15' (Dynamic Tailwater)
1=18" ADS (Inlet Controls 0.43 cfs @ 1.82 fps)

Summary for Pond 29.010:

Inflow Area = 0.486 ac, 36.65% Impervious, Inflow Depth = 0.40" for WQ event
Inflow = 0.18 cfs @ 12.12 hrs, Volume= 0.016 af
Outflow = 0.18 cfs @ 12.12 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min
Primary = 0.18 cfs @ 12.12 hrs, Volume= 0.016 af
Routed to Pond 28.030 :

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 62.34' @ 12.12 hrs
Flood Elev= 66.33'

Device	Routing	Invert	Outlet Devices
#1	Primary	62.13'	**12.0" Round 12" ADS** L= 20.0' Ke= 0.500 Inlet / Outlet Invert= 62.13' / 61.93' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.18 cfs @ 12.12 hrs HW=62.34' TW=61.47' (Dynamic Tailwater)
1=12" ADS (Barrel Controls 0.18 cfs @ 2.21 fps)

Summary for Pond P201-DT: DETENTION

Inflow Area = 10.168 ac, 41.40% Impervious, Inflow Depth = 0.06" for WQ event
Inflow = 0.68 cfs @ 12.07 hrs, Volume= 0.050 af
Outflow = 0.33 cfs @ 12.20 hrs, Volume= 0.050 af, Atten= 51%, Lag= 8.0 min
Discarded = 0.11 cfs @ 12.20 hrs, Volume= 0.017 af
Primary = 0.22 cfs @ 12.20 hrs, Volume= 0.034 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 48.01' @ 12.20 hrs Surf.Area= 17,703 sf Storage= 156 cf
Flood Elev= 52.00' Surf.Area= 26,017 sf Storage= 87,081 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 1.6 min (787.4 - 785.8)

Volume	Invert	Avail.Storage	Storage Description
#1	48.00'	87,081 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
48.00	17,686	0	0
49.00	19,670	18,678	18,678
50.00	21,727	20,699	39,377
51.00	23,832	22,780	62,156
52.00	26,017	24,925	87,081

Device	Routing	Invert	Outlet Devices
#1	Discarded	48.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**18.0" Round 18" ADS x2 X 2.00** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0100 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Device 2	47.00'	**3.0" Vert. 3" Orifice** C= 0.600 Limited to weir flow at low heads
#4	Device 2	49.00'	**48.0" W x 24.0" H Vert. 2'H X 4'W Opening with trash rack** C= 0.600 Limited to weir flow at low heads
#5	Primary	51.00'	**12.0' long x 15.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.11 cfs @ 12.20 hrs HW=48.01' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.11 cfs)

Primary OutFlow Max=0.22 cfs @ 12.20 hrs HW=48.01' TW=0.00' (Dynamic Tailwater)
├**2=18" ADS x2** (Passes 0.22 cfs of 14.82 cfs potential flow)
│ ├**3=3" Orifice** (Orifice Controls 0.22 cfs @ 4.53 fps)
│ └**4=2'H X 4'W Opening with trash rack** (Controls 0.00 cfs)
└**5=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond P201-SF: FILTER (LINED)

Inflow Area = 9.349 ac, 38.64% Impervious, Inflow Depth = 0.42" for WQ event
Inflow = 3.66 cfs @ 12.09 hrs, Volume= 0.326 af
Outflow = 0.38 cfs @ 13.08 hrs, Volume= 0.326 af, Atten= 90%, Lag= 59.4 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P201-DT : DETENTION
Secondary = 0.38 cfs @ 13.08 hrs, Volume= 0.326 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 49.06' @ 13.08 hrs Surf.Area= 6,500 sf Storage= 5,494 cf
Flood Elev= 52.00' Surf.Area= 14,955 sf Storage= 22,465 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 137.9 min (939.7 - 801.8)

Volume	Invert	Avail.Storage	Storage Description
#1	46.50'	7,508 cf	**Media (Prismatic)** Listed below (Recalc) 22,750 cf Overall x 33.0% Voids
#2	50.00'	14,958 cf	**Sand Filer Ponding (Prismatic)** Listed below (Recalc)
		22,465 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.50	6,500	0	0
50.00	6,500	22,750	22,750

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	6,500	0	0
51.00	7,480	6,990	6,990
52.00	8,455	7,968	14,958

Device	Routing	Invert	Outlet Devices
#1	Secondary	46.25'	**4.0" Round 4" Underdrain** L= 142.0' Ke= 0.500 Inlet / Outlet Invert= 46.25' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	46.50'	**8.270 in/hr Exfiltration over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=46.50' TW=48.00' (Dynamic Tailwater)
└**3=Overflow weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.38 cfs @ 13.08 hrs HW=49.06' TW=0.00' (Dynamic Tailwater)
└**1=4" Underdrain** (Barrel Controls 0.38 cfs @ 4.31 fps)
└**2=Exfiltration** (Passes 0.38 cfs of 1.24 cfs potential flow)

Summary for Pond P202-DT: DETENTION (LINED)

Inflow Area = 1.683 ac, 37.75% Impervious, Inflow Depth = 0.41" for WQ event
Inflow = 0.53 cfs @ 12.10 hrs, Volume= 0.058 af
Outflow = 0.10 cfs @ 12.75 hrs, Volume= 0.058 af, Atten= 82%, Lag= 39.2 min
Primary = 0.10 cfs @ 12.75 hrs, Volume= 0.058 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 46.08' @ 12.75 hrs Surf.Area= 9,522 sf Storage= 717 cf
Flood Elev= 50.00' Surf.Area= 17,157 sf Storage= 52,695 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 48.7 min (851.8 - 803.1)

Volume	Invert	Avail.Storage	Storage Description
#1	46.00'	52,695 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	9,382	0	0
48.00	13,078	22,460	22,460
50.00	17,157	30,235	52,695

Device	Routing	Invert	Outlet Devices
#1	Primary	45.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 45.50' / 45.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	45.50'	**2.3" Vert. 2.3" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	47.25'	**18.0" x 18.0" Horiz. 18" Grate** C= 0.600 Limited to weir flow at low heads
#4	Primary	48.50'	**90.0 deg x 4.5' long x 1.50' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.10 cfs @ 12.75 hrs HW=46.08' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS X 2** (Passes 0.10 cfs of 2.42 cfs potential flow)
  - **2=2.3" Orifice** (Orifice Controls 0.10 cfs @ 3.34 fps)
  - **3=18" Grate** (Controls 0.00 cfs)
- **4=Overflow Weir** (Controls 0.00 cfs)

Summary for Pond P202A-SF: FILTER (LINED)

Inflow Area = 10.304 ac, 28.69% Impervious, Inflow Depth = 0.33" for WQ event
Inflow = 3.00 cfs @ 12.10 hrs, Volume= 0.281 af
Outflow = 1.07 cfs @ 12.01 hrs, Volume= 0.259 af, Atten= 64%, Lag= 0.0 min
Primary = 1.07 cfs @ 12.01 hrs, Volume= 0.259 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 44.76' @ 12.44 hrs Surf.Area= 5,600 sf Storage= 3,251 cf
Flood Elev= 48.00' Surf.Area= 12,965 sf Storage= 18,509 cf

Plug-Flow detention time= 99.6 min calculated for 0.259 af (92% of inflow)
Center-of-Mass det. time= 58.7 min (870.1 - 811.4)

Volume	Invert	Avail.Storage	Storage Description
#1	43.00'	5,544 cf	**Media (Prismatic)** Listed below (Recalc) 16,800 cf Overall x 33.0% Voids
#2	46.00'	12,965 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,509 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
43.00	5,600	0	0
46.00	5,600	16,800	16,800

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
46.00	5,600	0	0
48.00	7,365	12,965	12,965

Device	Routing	Invert	Outlet Devices
#1	Primary	43.50'	**18.0" Round 18" ADS** L= 35.0' Ke= 0.500 Inlet / Outlet Invert= 43.50' / 43.25' S= 0.0071 '/' Cc= 0.900 n= 0.010, Flow Area= 1.77 sf
#2	Device 1	43.00'	**8.270 in/hr Media Transport over Surface area**
#3	Device 1	46.66'	**24.0" Horiz. 24" Grate** C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=1.07 cfs @ 12.01 hrs HW=44.01' TW=0.00' (Dynamic Tailwater)
- **1=18" ADS** (Passes 1.07 cfs of 1.18 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 1.07 cfs)
  - **3=24" Grate** (Controls 0.00 cfs)

Summary for Pond P202B-SF: FILTER (LINED)

Inflow Area = 1.046 ac, 23.10% Impervious, Inflow Depth = 0.28" for WQ event
Inflow = 0.26 cfs @ 12.09 hrs, Volume= 0.024 af
Outflow = 0.12 cfs @ 12.04 hrs, Volume= 0.024 af, Atten= 54%, Lag= 0.0 min
Primary = 0.12 cfs @ 12.04 hrs, Volume= 0.024 af
Routed to Pond P202-DT : DETENTION (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.88' @ 12.30 hrs Surf.Area= 622 sf Storage= 78 cf
Flood Elev= 52.00' Surf.Area= 2,701 sf Storage= 3,214 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 2.2 min (820.5 - 818.2)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	513 cf	**Media (Prismatic)** Listed below (Recalc) 1,555 cf Overall x 33.0% Voids
#2	50.00'	2,701 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		3,214 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	622	0	0
50.00	622	1,555	1,555

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	622	0	0
52.00	2,079	2,701	2,701

Device	Routing	Invert	Outlet Devices
#1	Primary	47.25'	**4.0" Round 4" PVC** L= 25.0' Ke= 0.500 Inlet / Outlet Invert= 47.25' / 47.00' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	47.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.12 cfs @ 12.04 hrs HW=47.56' TW=46.02' (Dynamic Tailwater)
- **1=4" PVC** (Passes 0.12 cfs of 0.16 cfs potential flow)
  - **2=Media Transport** (Exfiltration Controls 0.12 cfs)
- **3=Overflow Weir** (Controls 0.00 cfs)

Summary for Pond P203-DT: DETENTION (LINED)

Inflow Area = 8.528 ac, 29.10% Impervious, Inflow Depth = 0.09" for WQ event
Inflow = 0.76 cfs @ 12.09 hrs, Volume= 0.061 af
Outflow = 0.15 cfs @ 12.54 hrs, Volume= 0.061 af, Atten= 80%, Lag= 27.0 min
Primary = 0.15 cfs @ 12.54 hrs, Volume= 0.061 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 51.57' @ 12.54 hrs Surf.Area= 9,613 sf Storage= 620 cf
Flood Elev= 54.00' Surf.Area= 15,076 sf Storage= 31,412 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 22.2 min (820.1 - 797.8)

Volume	Invert	Avail.Storage	Storage Description
#1	51.50'	31,412 cf	**Detention Basin (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.50	9,373	0	0
52.00	11,214	5,147	5,147
53.00	13,120	12,167	17,314
54.00	15,076	14,098	31,412

Device	Routing	Invert	Outlet Devices
#1	Primary	50.50'	**12.0" Round 12" ADS** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 50.50' / 50.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#2	Device 1	50.50'	**2.4" Vert. 2.4" Orifice** C= 0.600 Limited to weir flow at low heads
#3	Device 1	52.35'	**18.0" Horiz. 18" Inlet** C= 0.600 Limited to weir flow at low heads
#4	Primary	52.30'	**90.0 deg x 6.0' long x 1.70' rise Overflow Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.15 cfs @ 12.54 hrs HW=51.57' TW=0.00' (Dynamic Tailwater)
- **1=12" ADS** (Passes 0.15 cfs of 2.84 cfs potential flow)
  - **2=2.4" Orifice** (Orifice Controls 0.15 cfs @ 4.73 fps)
  - **3=18" Inlet** (Controls 0.00 cfs)
- **4=Overflow Weir** (Controls 0.00 cfs)

Summary for Pond P203-FB: FOREBAY (LINED)

Inflow Area = 0.902 ac, 2.22% Impervious, Inflow Depth = 0.19" for WQ event
Inflow = 0.14 cfs @ 12.10 hrs, Volume= 0.014 af
Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P203-SF : FILTER (LINED)

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 52.38' @ 24.29 hrs Surf.Area= 689 sf Storage= 628 cf
Flood Elev= 54.00' Surf.Area= 1,220 sf Storage= 2,160 cf

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

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	2,160 cf	**Sediment Forebay (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	200	0	0
52.00	578	389	389
53.00	872	725	1,114
54.00	1,220	1,046	2,160

Device	Routing	Invert	Outlet Devices
#1	Primary	52.65'	**90.0 deg x 15.0' long x 1.35' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=51.00' TW=49.50' (Dynamic Tailwater)
- **1=Overflow weir** (Controls 0.00 cfs)

Summary for Pond P203-SF: FILTER (LINED)

Inflow Area = 6.925 ac, 25.88% Impervious, Inflow Depth = 0.29" for WQ event
Inflow = 1.75 cfs @ 12.09 hrs, Volume= 0.167 af
Outflow = 0.33 cfs @ 12.64 hrs, Volume= 0.167 af, Atten= 81%, Lag= 32.5 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P203-DT : DETENTION (LINED)
Secondary = 0.33 cfs @ 12.64 hrs, Volume= 0.167 af
Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 50.68' @ 12.64 hrs Surf.Area= 5,319 sf Storage= 2,070 cf
Flood Elev= 54.00' Surf.Area= 14,437 sf Storage= 18,797 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 46.9 min (857.6 - 810.6)

Volume	Invert	Avail.Storage	Storage Description
#1	49.50'	4,388 cf	**Media (Prismatic)** Listed below (Recalc) 13,298 cf Overall x 33.0% Voids
#2	52.00'	14,409 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		18,797 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
49.50	5,319	0	0
52.00	5,319	13,298	13,298

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
52.00	5,319	0	0
53.00	7,190	6,255	6,255
54.00	9,118	8,154	14,409

Device	Routing	Invert	Outlet Devices
#1	Secondary	49.25'	**4.0" Round 4" PVC** L= 87.0' Ke= 0.500 Inlet / Outlet Invert= 49.25' / 48.50' S= 0.0086 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#2	Device 1	49.50'	**8.270 in/hr Media Transport over Surface area**
#3	Primary	52.66'	**90.0 deg x 10.0' long x 1.33' rise Sharp-Crested Vee/Trap Weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=49.50' TW=51.50' (Dynamic Tailwater)
└**3=Sharp-Crested Vee/Trap Weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.33 cfs @ 12.64 hrs HW=50.68' TW=0.00' (Dynamic Tailwater)
└**1=4" PVC** (Barrel Controls 0.33 cfs @ 3.74 fps)
└**2=Media Transport** (Passes 0.33 cfs of 1.02 cfs potential flow)

Summary for Pond P204A-DT: DETENTION

Inflow Area = 6.595 ac, 33.52% Impervious, Inflow Depth = 0.07" for WQ event
Inflow = 0.47 cfs @ 12.10 hrs, Volume= 0.038 af
Outflow = 0.15 cfs @ 12.43 hrs, Volume= 0.038 af, Atten= 68%, Lag= 19.6 min
Discarded = 0.07 cfs @ 12.43 hrs, Volume= 0.019 af
Primary = 0.08 cfs @ 12.43 hrs, Volume= 0.019 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.02' @ 12.43 hrs Surf.Area= 11,910 sf Storage= 251 cf
Flood Elev= 50.00' Surf.Area= 20,313 sf Storage= 48,163 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 7.2 min (798.7 - 791.6)

Volume	Invert	Avail.Storage	Storage Description
#1	47.00'	48,163 cf	**Detention Area (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.00	11,852	0	0
48.00	14,616	13,234	13,234
50.00	20,313	34,929	48,163

Device	Routing	Invert	Outlet Devices
#1	Discarded	47.00'	**0.270 in/hr Exfiltration over Surface area**
#2	Primary	46.50'	**12.0" Round 12" ADS X 2 X 2.00** L= 30.0' Ke= 0.500 Inlet / Outlet Invert= 46.50' / 46.00' S= 0.0167 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf
#3	Device 2	47.50'	**30.0" W x 12.0" H Vert. 30"W X 12"H GRATE** C= 0.600 Limited to weir flow at low heads
#4	Device 2	46.50'	**2.1" Vert. 2.1" ORIFICE** C= 0.600 Limited to weir flow at low heads
#5	Primary	49.25'	**10.0' long x 15.0' breadth Riprap Spillway** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.07 cfs @ 12.43 hrs HW=47.02' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.07 cfs)

Primary OutFlow Max=0.08 cfs @ 12.43 hrs HW=47.02' TW=0.00' (Dynamic Tailwater)
└**2=12" ADS X 2** (Passes 0.08 cfs of 2.03 cfs potential flow)
  └**3=30"W X 12"H GRATE** (Controls 0.00 cfs)
  └**4=2.1" ORIFICE** (Orifice Controls 0.08 cfs @ 3.17 fps)
└**5=Riprap Spillway** (Controls 0.00 cfs)

Summary for Pond P204A-SF: FILTER (LINED)

Inflow Area = 3.971 ac, 35.06% Impervious, Inflow Depth = 0.39" for WQ event
Inflow = 1.37 cfs @ 12.11 hrs, Volume= 0.128 af
Outflow = 0.42 cfs @ 12.49 hrs, Volume= 0.128 af, Atten= 69%, Lag= 23.2 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
  Routed to Pond P204A-DT : DETENTION
Secondary = 0.42 cfs @ 12.49 hrs, Volume= 0.128 af
  Routed to Link DP1-PR : Wetlands

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 48.84' @ 12.49 hrs Surf.Area= 2,500 sf Storage= 1,109 cf
Flood Elev= 52.00' Surf.Area= 6,383 sf Storage= 7,262 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 14.8 min (820.4 - 805.6)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	2,475 cf	**Media (Prismatic)** Listed below (Recalc) 7,500 cf Overall x 33.0% Voids
#2	50.50'	4,787 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		7,262 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	2,500	0	0
50.50	2,500	7,500	7,500

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.50	2,500	0	0
52.00	3,883	4,787	4,787

Device	Routing	Invert	Outlet Devices
#1	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**
#2	Secondary	47.00'	**4.0" Round 4" PVC** L= 50.0' Ke= 0.500 Inlet / Outlet Invert= 47.00' / 46.50' S= 0.0100 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Primary	51.00'	**90.0 deg x 10.0' long x 1.00' rise Overflow weir** Cv= 2.50 (C= 3.13)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=47.50' TW=47.00' (Dynamic Tailwater)
└**3=Overflow weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.42 cfs @ 12.49 hrs HW=48.84' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Barrel Controls 0.42 cfs @ 4.84 fps)
└**1=Media Transport** (Passes 0.42 cfs of 0.48 cfs potential flow)

Summary for Pond P204B-SF: FILTER (LINED)

Inflow Area = 1.883 ac, 19.82% Impervious, Inflow Depth = 0.24" for WQ event
Inflow = 0.38 cfs @ 12.11 hrs, Volume= 0.038 af
Outflow = 0.26 cfs @ 12.11 hrs, Volume= 0.038 af, Atten= 31%, Lag= 0.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Routed to Pond P204A-DT : DETENTION
Secondary = 0.26 cfs @ 12.11 hrs, Volume= 0.038 af
Routed to Link DP2-PR : Western Abutters

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
Peak Elev= 47.61' @ 12.22 hrs Surf.Area= 1,350 sf Storage= 48 cf
Flood Elev= 52.00' Surf.Area= 5,555 sf Storage= 6,669 cf

Plug-Flow detention time= (not calculated: outflow precedes inflow)
Center-of-Mass det. time= 0.5 min (826.5 - 826.1)

Volume	Invert	Avail.Storage	Storage Description
#1	47.50'	1,114 cf	**Media (Prismatic)** Listed below (Recalc) 3,375 cf Overall x 33.0% Voids
#2	50.00'	5,555 cf	**Ponding Area (Prismatic)** Listed below (Recalc)
		6,669 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
47.50	1,350	0	0
50.00	1,350	3,375	3,375

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
50.00	1,350	0	0
52.00	4,205	5,555	5,555

Device	Routing	Invert	Outlet Devices
#1	Primary	50.66'	**90.0 deg x 10.0' long x 1.33' rise Overflow weir** Cv= 2.50 (C= 3.13)
#2	Secondary	46.00'	**4.0" Round 4" PVC** L= 113.0' Ke= 0.500 Inlet / Outlet Invert= 46.00' / 45.00' S= 0.0088 '/' Cc= 0.900 n= 0.010, Flow Area= 0.09 sf
#3	Device 2	47.50'	**8.270 in/hr Media Transport over Surface area**

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=47.50' TW=47.00' (Dynamic Tailwater)
└**1=Overflow weir** (Controls 0.00 cfs)

Secondary OutFlow Max=0.26 cfs @ 12.11 hrs HW=47.55' TW=0.00' (Dynamic Tailwater)
└**2=4" PVC** (Passes 0.26 cfs of 0.32 cfs potential flow)
└**3=Media Transport** (Exfiltration Controls 0.26 cfs)

Summary for Link DP1-PR: Wetlands

Inflow Area = 26.211 ac, 29.76% Impervious, Inflow Depth = 0.38" for WQ event
Inflow = 2.33 cfs @ 12.15 hrs, Volume= 0.837 af
Primary = 2.33 cfs @ 12.15 hrs, Volume= 0.837 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Summary for Link DP2-PR: Western Abutters

Inflow Area = 21.950 ac, 27.83% Impervious, Inflow Depth = 0.23" for WQ event
Inflow = 1.83 cfs @ 12.09 hrs, Volume= 0.413 af
Primary = 1.83 cfs @ 12.09 hrs, Volume= 0.413 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

APPENDIX H RIDEM APPENDIX "A" CHECKLIST

APPENDIX A: STORMWATER MANAGEMENT PLAN CHECKLIST AND LID PLANNING REPORT – STORMWATER DESIGN SUMMARY

PROJECT NAME **Prescott Point Phase 2: Single Family Development**	**(RIDEM USE ONLY)**
TOWN **Middletown / Portsmouth**	**STW/WQC File #:**
BRIEF PROJECT DESCRIPTION: Phase 2 of an existing multi-family development comprised of single-family homes, an assisted living structure, associated private roads, utilities, and stormwater controls. Previously permitted under RIDEM file no 16-0112, resubmission due to permit expiration.	**Date Received:**

Stormwater Management Plan (SMP) Elements – Minimum Standards

Submit four separately bound documents: Appendix A Checklist; Stormwater Site Planning, Analysis and Design Report with Plan Set/Drawings; Soil Erosion and Sediment Control (SESC) Plan, and Post Construction Operations and Maintenance (O&M) Plan. Please refer to Suggestions to Promote Brevity.

Note: **All stormwater construction projects must submit a Stormwater Management Plan (SMP). However, not every element listed below is required per the RIDEM Stormwater Rules and the RIPDES Construction General Permit (CGP). This checklist will help identify the required elements to be submitted with an Application for Stormwater Construction Permit & Water Quality Certification.**

PART 1. PROJECT AND SITE INFORMATION

PROJECT TYPE (Check all that apply)

☒ Residential	☒ Commercial	☐ Federal	☐ Retrofit	☐ Restoration
☒ Road	☐ Utility	☐ Fill	☐ Dredge	☐ Mine
☐ Other (specify):				

SITE INFORMATION

☒ Vicinity Map

INITIAL DISCHARGE LOCATION(S): The WQv discharges to: (You may choose more than one answer if several discharge points are associated with the project.) See Guidance to identify receiving waters.

☒ **Groundwater**	☒ **Surface Water**	☐ **MS4**
☐ GAA	☐ Isolated Wetland	☐ RIDOT
☒ GA	☒ Named Waterbody	☐ RIDOT Alteration Permit is Approved
☐ GB	☐ Unnamed Waterbody Connected to Named Waterbody	☐ Town
		☐ Other (specify):

ULTIMATE RECEIVING WATERBODY LOCATION(S): Include pertinent information that applies to both WQ_v and flow from larger storm events including overflows. Choose all that apply, and repeat table for each waterbody.

☐ Groundwater or Disconnected Wetland	☐ SRWP		
☒ Waterbody Name: Mother of Hope Brook, East Passage	☐ Coldwater	☒ Warmwater	☐ Unassessed
☒ Waterbody ID: RI0007029R-01A, RI0007029E-01N	☐ 4th order stream of pond 50 acres or more		
☐ TMDL for: None	☐ Watershed of flood prone river (e.g., Pocasset River)		
☐ Contributes to a priority outfall listed in the TMDL	☐ Contributes stormwater to a public beach		
☐ 303(d) list – Impairment(s) for:	☐ Contributes to shell fishing grounds		

PROJECT HISTORY		
☐ RIDEM Pre- Application Meeting	Meeting Date:	☐ Minutes Attached
☐ Municipal Master Plan Approval	Approval Date:	☐ Minutes Attached
☐ Subdivision Suitability Required	Approval #:	
☐ Previous Enforcement Action has been taken on the property	Enforcement #:	

FLOODPLAIN & FLOODWAY See Guidance Pertaining to Floodplain and Floodways	
☒ Riverine 100-year floodplain: **FEMA FLOODPLAIN FIRMETTE** has been reviewed and the 100-year floodplain is on site	
☒ Delineated from FEMA Maps	
NOTE: Per Rule 250-RICR-150-10-8-1.1(B)(5)(d)(3), provide volumetric floodplain compensation calculations for cut and fill/displacement calculated by qualified professional	
☐ Calculated by Professional Engineer	
☐ Calculations are provided for cut vs. fill/displacement volumes proposed within the 100-year floodplain	Amount of Fill (CY): Amount of Cut (CY):
☐ Restrictions or modifications are proposed to the flow path or velocities in a floodway	
☐ Floodplain storage capacity is impacted	
☒ Project area is not within 100-year floodplain as defined by RIDEM	

CRMC JURISDICTION
☐ CRMC Assent required
☐ Property subject to a Special Area Management Plan (SAMP). If so, specify which SAMP:
☐ Sea level rise mitigation has been designed into this project

LUHPPL IDENTIFICATION - MINIMUM STANDARD 8:			
1. OFFICE OF WASTE MANAGEMENT (OWM)			
	☐ Known or suspected releases of HAZARDOUS MATERIAL are present at the site (Hazardous Material is defined in Rule 1.4(A)(33) of 250-140-30-1 of the RIDEM Rules and Regulations for Investigation and Remediation of Hazardous Materials (the Remediation Regulations))		**RIDEM CONTACT:**
	☐ Known or suspected releases of PETROLEUM PRODUCT are present at the site (Petroleum Product as defined in Rule 1.5(A)(84) of 250-140-25-1 of the RIDEM Rules and Regulations for Underground Storage Facilities Used for Regulated Substances and Hazardous Materials)		
	☐ This site is identified on the RIDEM Environmental Resources Map as one of the following regulated facilities		**SITE ID#**:
		☐ CERCLIS/Superfund (NPL)	
		☐ State Hazardous Waste Site (SHWS)	
		☐ Environmental Land Usage Restriction (ELUR)	
		☐ Leaking Underground Storage Tank (LUST)	
		☐ Closed Landfill	
Note: If any boxes in 1 above are checked, the applicant must contact the RIDEM OWM Project Manager associated with the Site to determine if subsurface infiltration of stormwater is allowable for the project. Indicate if the infiltration corresponds to "Red," "Yellow" or "Green" as described in Section 3.2.8 of the RISDISM Guidance (Subsurface Contamination Guidance). Also, note and reference approval in PART 3, Minimum Standard 2: Groundwater Recharge/Infiltration.			
2. PER MINIMUM STANDARD 8 of RICR 8.14.C.1-6 "LUHPPLS," THE SITE IS/HAS:			
	☐ Industrial Site with RIPDES MSGP, except where No Exposure Certification exists. http://www.dem.ri.gov/programs/water/permits/ripdes/stormwater/status.php		
	☐ Auto Fueling Facility (e.g., gas station)		
	☐ Exterior Vehicles Service, Maintenance, or Equipment Cleaning Area		

	☐ Road Salt Storage and Loading Areas (exposed to rainwater)	
	☐ Outdoor Storage and Loading/Unloading of Hazardous Substances	
3.	**STORMWATER INDUSTRIAL PERMITTING**	
	☐ The site is associated with existing or proposed activities that are considered Land Uses with Higher Potential Pollutant Loads (LUHPPLS) (see RICR 8.14.C)	Activities: Sector:
	☐ Construction is proposed on a site that is subject to THE MULTI-SECTOR GENERAL PERMIT (MSGP) UNDER RULE 31(B)15 OF THE RIPDES REGULATIONS.	MSGP permit #
	☐ Additional stormwater treatment is required by the MSGP Explain:	

REDEVELOPMENT STANDARD – MINIMUM STANDARD 6		
☒ Pre Construction Impervious Area		
	☒ Total Pre-Construction Impervious Area (**TIA**) 11.3 acres	
	☒ Total Site Area (**TSA**) 105.9 acres	
	☒ Jurisdictional Wetlands (**JW**) 15.9 acres	
	☒ Conservation Land (**CL**) 0.0 acres	
☒ Calculate the Site Size (defined as contiguous properties under same ownership)		
	☒ Site Size (**SS**) = (**TSA**) – (**JW**) – (**CL**) 90 acres	
	☒ (**TIA**) / (**SS**) = 12.6%	☐ (**TIA**) / (**SS**) >**0.4**? No
☐ YES, Redevelopment		

PART 2. LOW IMPACT DEVELOPMENT ASSESSMENT – MINIMUM STANDARD 1

(NOT REQUIRED FOR REDEVELOPMENT OR RETROFITS)
This section may be deleted if not required.

Note: A written description must be provided specifying why each method is not being used or is not applicable at the Site. Appropriate answers may include:

- Town requires … (state the specific local requirement)
- Meets Town's dimensional requirement of …
- Not practical for site because …
- Applying for waiver/variance to achieve this (pending/approved/denied)
- Applying for wavier/variance to seek relief from this (pending/approved/denied)

A) PRESERVATION OF UNDISTURBED AREAS, BUFFERS, AND FLOODPLAINS	**IF NOT IMPLEMENTED, EXPLAIN HERE**
☒ Sensitive resource areas and site constraints are identified (required) ☒ Local development regulations have been reviewed (required) ☒ All vegetated buffers and coastal and freshwater wetlands will be protected during and after construction ☐ Conservation Development or another site design technique has been incorporated to protect open space and pre-development hydrology. **Note:** If Conservation Development has been used, check box and skip to Subpart C ☒ As much natural vegetation and pre-development hydrology as possible has been maintained	

B) LOCATE DEVELOPMENT IN LESS SENSITIVE AREAS AND WORK WITH THE NATURAL LANDSCAPE CONDITIONS, HYDROLOGY, AND SOILS ☒ Development sites and building envelopes have been appropriately distanced from wetlands and waterbodies ☐ Development and stormwater systems have been located in areas with greatest infiltration capacity (e.g., soil groups A and B) ☐ Plans show measures to prevent soil compaction in areas designated as Qualified Pervious Areas (QPA's) ☒ Development sites and building envelopes have been positioned outside of floodplains ☒ Site design positions buildings, roadways and parking areas in a manner that avoids impacts to surface water features ☒ Development sites and building envelopes have been located to minimize impacts to steep slopes (≥15%) ☐ Other (describe):	No QPA areas presents on site due to soil types.
C) MINIMIZE CLEARING AND GRADING ☐ Site clearing has been restricted to minimum area needed for building footprints, development activities, construction access, and safety. ☒ Site has been designed to position buildings, roadways, and parking areas in a manner that minimizes grading (cut and fill quantities) ☐ Protection for stands of trees and individual trees and their root zones to be preserved has been specified, and such protection extends at least to the tree canopy drip line(s) ☐ Plan notes specify that public trees removed or damaged during construction shall be replaced with equivalent	Minimal grading necessary for roadways. House building sites are appropriately sloped for development.
D) REDUCE IMPERVIOUS COVER ☒ Reduced roadway widths (≤22 feet for ADT ≤ 400; ≤ 26 feet for ADT 400 - 2,000) ☒ Reduced driveway areas (length minimized via reduced ROW width (≤ 45 ft.) and/or reduced (or absolute minimum) front yard setback; width minimized to ≤ 9 ft. wide one lane; ≤ 18 ft. wide two lanes; shared driveways; pervious surface) ☐ Reduced building footprint: Explain approach: ☐ Reduced sidewalk area (≤ 4 ft. wide; one side of the street; unpaved path; pervious surface) ☐ Reduced cul-de-sacs (radius < 45 ft; vegetated island; alternative turn-around) ☐ Reduced parking lot area: Explain approach ☐ Use of pervious surfaces for driveways, sidewalks, parking areas/overflow parking areas, etc. ☐ Minimized impervious surfaces (project meets or is less than maximum specified by Zoning Ordinance) ☐ Other (describe):	Width is minimum allowed by towns. Driveways shall be short as residential units are not very large and residences will be close to road,
E) DISCONNECT IMPERVIOUS AREA ☐ Impervious surfaces have been disconnected, and runoff has been diverted to QPAs to the maximum extent possible ☐ Residential street edges allow side-of-the-road drainage into vegetated open swales ☐ Parking lot landscaping breaks up impervious expanse AND accepts runoff ☐ Other (describe):	No QPAs possible for this development due to soil types present.
F) MITIGATE RUNOFF AT THE POINT OF GENERATION ☐ Small-scale BMPs have been designated to treat runoff as close as possible to the source	
G) PROVIDE LOW-MAINTENANCE NATIVE VEGETATION ☐ Low-maintenance landscaping has been proposed using native species and cultivars ☐ Plantings of native trees and shrubs in areas previously cleared of native vegetation are shown on site plan	

☐ Lawn areas have been limited/minimized, and yards have been kept undisturbed to the maximum extent practicable on residential lots	
H) RESTORE STREAMS/WETLANDS ☐ Historic drainage patterns have been restored by removing closed drainage systems, daylighting buried streams, and/or restoring degraded stream channels and/or wetlands ☐ Removal of invasive species ☐ Other	N/A

PART 3. SUMMARY OF REMAINING STANDARDS

GROUNDWATER RECHARGE – MINIMUM STANDARD 2		
YES	**NO**	
☐	☒	The project has been designed to meet the groundwater recharge standard.
☒	☐	If "No," the justification for groundwater recharge criterion waiver has been explained in the Narrative (e.g., threat of groundwater contamination or physical limitation), if applicable (see RICR 8.8.D);
☐	☐	Your waiver request has been explained in the Narrative, if applicable.
☐	☒	Is this site identified as a Regulated Facility in Part 1, Minimum Standard 8: LUHPPL Identification?
☐	☐	If "Yes," has approval for infiltration by the Office of Waste Management Site Project Manager, per Part 1, Minimum Standard 8, been requested?

TABLE 2-1: Summary of Recharge (see RISDISM Section 3.3.2)

Device	**Impervious Area Treated (sq ft)**	**Total Re_v Required (cu ft)**	**LID Stormwater Credits (see RISDISM Section 4.6.1)** **Portion of Re_v directed to a QPA (cu ft)**	**Recharge Required by Remaining BMPs (cu ft)**	**Recharge Provided by BMPs (cu ft)**
P201-SF	162,000	3,375	0	3,375	0
P201-DT	0	0	0	0	741
P202A-SF	110,468	2,301	0	2,301	0
P202B-SF	9,932	210	0	210	0
P202-DT	0	0	0	0	0
P203-SF	90,997	1,896	0	1,896	0
P203-DT	0	0	0	0	0
P204A-SF	55,800	1,162	0	1,162	0
P204B-SF	14,898	310	0	310	0
P204A-DT	0	0	0	0	828
P205-SF	10,846	226	0	226	0
TOTALS:	454,941	9,480	0	9,480	1,569

☒ Indicate where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.):

Stormwater Report, Appendix E

WATER QUALITY – MINIMUM STANDARD 3		
YES	**NO**	
☒	☐	Does this project meet or exceed the required water quality volume WQv (see RICR 8.9.E-I)?
☐	☒	Is the proposed final impervious cover greater than 20% of the disturbed area (see RICR 8.9.E-I)?
☒	☐	If "Yes," either the Modified Curve Number Method or the Split Pervious/Impervious method in Hydro-CAD was used to calculate WQv; or,
☒	☐	If "Yes," either TR-55 or TR-20 was used to calculate WQv; and,
☐	☐	If "No," the project meets the minimum WQv of 0.2 watershed inches over the entire disturbed area.
☐	☐	Not Applicable
☒	☐	Does this project meet or exceed the ability to treat required water quality flow WQf (see RICR 8.9.I.1-3)?
☒	☐	Does this project propose an increase of impervious cover to a receiving water body with impairments? If "Yes," please indicate below the method that was used to address the water quality requirements of no further degradation to a low-quality water. **BMPs have been designed in accordance with the manual. WQ provided exceeds that which is required.**
☐	☒	RICR 8.36. A Pollutant Loading Analysis is needed and has been completed.
☐	☒	The Water Quality Guidance Document (Water Quality Goals and Pollutant Loading Analysis Guidance for Discharges to Impaired Waters) has been followed as applicable.
☒	☐	BMPs are proposed that are on the approved technology list . If "Yes," please provide all required worksheets from the manufacturer.
☐	☒	Additional pollutant-specific requirements and/or pollutant removal efficiencies are applicable to the site as the result of a TMDL, SAMP, or other watershed-specific requirements. If "Yes," please describe:

TABLE 3-1: Summary of Water Quality (see RICR 8.9)					
Device	**Impervious area treated (sq ft)**	**Total WQ_v Required (cu ft)**	**LID Stormwater Credits** (see RICR 8.18) **WQv directed to a QPA (cu ft)**	**Water Quality Treatment Remaining (cu ft)**	**Water Quality Provided by BMPs (cu ft)**
P201-SF	162,000	13,500	0	13,500	13,500
P202A-SF	110,468	9,206	0	9,206	9,206
P202B-SF	9,932	828	0	828	828
P203-SF	90,997	7,583	0	7,583	7,583
P204A-SF	55,800	4,650	0	4,650	4,650
P204B-SF	14,898	1,242	0	1,242	1,242
P205-SF	10,846	904	0	904	904
TOTALS:	454,941	199,913	0	37,913	37,913
☒ YES ☐ NO	This project has met the setback requirements for each BMP. If "No," please explain:				
☐ Indicate where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.): **Stormwater Narrative: Appendix E**					

CONVEYANCE AND NATURAL CHANNEL PROTECTION (RICR 8.10) – MINIMUM STANDARD 4		
YES	**NO**	
☒	☐	Is this standard waived? If "Yes," please indicate one or more of the reasons below:
		☐ The project directs discharge to a large river (i.e., 4th-order stream or larger. See RISDISM Appendix I for State-wide list and map of stream orders), bodies of water >50.0 acres in surface area (i.e., lakes, ponds, reservoirs), or tidal waters. ☐ The project directs is a small facility with impervious cover of less than or equal to 1 acre. ☐ The project has a post-development peak discharge rate from the facility that is less than 2 cfs for the 1-year, 24-hour Type III design storm event (prior to any attenuation). (Note: LID design strategies can greatly reduce the peak discharge rate).
☒	☐	Conveyance and natural channel protection for the site have been met. If "No,' explain why:

TABLE 4-1: Summary of Channel Protection Volumes (see RICR 8.10)					
Device	**Receiving Water Body Name**	**Coldwater Fishery? (Y/N)**	**Total CPv Required (cu ft)**	**Total CPv Provided (cu ft)**	**Average Release Rate Modeled in the 1-yr storm (cfs)**
P201-DT	Mother of Hope Brook	N	21,388	21,388	0.165
P202-DT	East Passage	N	13,852	13,852	0.107
P203-DT	Mother of Hope Brook	N	14,593	14,593	0.113
P204A-DT	East Passage	N	7,492	7,492	0.058
☒ YES ☐ NO	The CPv is released at roughly a uniform rate over a 24-hour duration (see examples of sizing calculations in Appendix D of the RISDISM).				
☐ YES ☒ NO	Do additional design restrictions apply resulting from any discharge to cold-water fisheries; If "Yes," please indicate restrictions and solutions below.				
☐ Indicate below where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.). **Stormwater Narrative: Appendix E**					

OVERBANK FLOOD PROTECTION (RICR 8.11) AND OTHER POTENTIAL HIGH FLOWS – MINIMUM STANDARD 5			
YES	**NO**		
☐	☒	Is this standard waived? If yes, please indicate one or more of the reasons below:	
		☐	The project directs discharge to a large river (i.e., 4th-order stream or larger. See Appendix I for state-wide list and map of stream orders), bodies of water >50.0 acres in surface area (i.e., lakes, ponds, reservoirs), or tidal waters.
		☐	A Downstream Analysis (see RICR 8.11.D and E) indicates that peak discharge control would not be beneficial or would exacerbate peak flows in a downstream tributary of a particular site (e.g., through coincident peaks).
☐	☒	Does the project flow to an MS4 system or subject to other stormwater requirements? If "Yes," indicate as follows:	
		☐	RIDOT
		☐	Other (specify):
Note: The project could be approved by RIDEM but not meet RIDOT or Town standards. RIDOT's regulations indicate that post-volumes must be **less** than pre-volumes for the 10-yr storm at the design point entering the RIDOT system. If you have not already received approval for the discharge to an MS4, please explain below your strategy to comply with RIDEM and the MS4.			
		Indicate below which model was used for your analysis. ☐ TR-55 ☐ TR-20 ☒ HydroCAD ☐ Bentley/Haestad ☐ Intellisolve ☐ Other (Specify):	
YES	**NO**		
☒	☐	Does the drainage design demonstrate that flows from the 100-year storm event through a BMP will safely manage and convey the 100-year storm? If "No," please explain briefly below and reference where in the application further documentation can be found (i.e., name of report/document, page numbers, appendices, etc.):	
☐	☒	Do off-site areas contribute to the sub-watersheds and design points? If "Yes,"	
☐	☐	Are the areas modeled as "present condition" for both pre- and post-development analysis?	
☐	☐	Are the off-site areas shown on the subwatershed maps?	
☒	☐	Does the drainage design confirm safe passage of the 100-year flow through the site for off-site runoff?	
☐	☒	Is a Downstream Analysis required (see RICR 8.11.E.1)?	
☒	☐	Calculate the following:	
		☒	Area of disturbance within the sub-watershed (areas) 45.2 acres
		☒	Impervious cover (%) 25.6%
☐	☒	Is a dam breach analysis required (earthen embankments over six (6) feet in height, or a capacity of 15 acre-feet or more, and contributes to a significant or high hazard dam)?	
☒	☐	Does this project meet the overbank flood protection standard?	

Table 5-1 Hydraulic Analysis Summary								
Subwatershed (Design Point)	**1.2" Peak Flow** (cfs) **		**1-yr Peak Flow** (cfs)		**10-yr Peak Flow** (cfs)		**100-yr Peak Flow** (cfs)	
	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)
Wetlands	1.56	2.33	16.57	7.87	48.89	36.63	113.12	112.48
Western Abutters	0.11	1.83	9.21	5.77	31.84	27.01	79.67	75.69

Indicate as follows where the pertinent calculations and/or information for the items above are provided	**Name of report/document, page numbers, appendices, etc.**
Existing conditions analysis for each subwatershed, including curve numbers, times of concentration, runoff rates, volumes, and water surface elevations showing methodologies used and supporting calculations.	Stormwater Narrative, Appendix C
Proposed conditions analysis for each subwatershed, including curve numbers, times of concentration, runoff rates, volumes, water surface elevations, and routing showing the methodologies used and supporting calculations.	Stormwater Narrative, Appendix D
Final sizing calculations for structural stormwater BMPs, including contributing drainage area, storage, and outlet configuration.	Stormwater Narrative, Appendix E
Stage-storage, inflow and outflow hydrographs for storage facilities (e.g., detention, retention, or infiltration facilities).	Stormwater Narrative, Appendix D

Table 5-2 Summary of Best Management Practices												
BMP ID	**DP #**	**BMP Type** (e.g., bioretention, tree filter)	**BMP Functions**					**Bypass Type**	**Horizontal Setback Criteria are met per RICR 8.21.B.10, 8.22.D.11, and 8.35.B.4**		
			Pre-Treatment (Y/N/NA)	Re_v	WQ_v	CP_v (Y/N/NA)	Overbank Flood Reduction (Y/N/NA)	External (E) Internal (I) or NA	Yes/No	Technical Justification (Design Report page number)	Distance Provided
P201-SF	1	Sand Filter	Y	0	13,500	N	N	E	Y	n/a	
P201-DT	1	Detention	n/a	741	0	Y	Y	n/a	Y	n/a	
P202A-SF	2	Sand Filter	Y	0	9,206	N	N	E	Y	n/a	
P202B-SF	2	Sand Filter	Y	0	828	N	N	E	Y	n/a	
P202-DT	2	Detention	n/a	0	0	Y	Y	n/a	Y	n/a	
P203-SF	1	Sand Filter	Y	0	7,583	N	N	E	Y	n/a	
P203-DT	1	Detention	n/a	0	0	Y	Y	n/a	Y	n/a	
P204A-SF	1	Sand Filter	Y	0	4,650	N	N	E	Y	n/a	
P204B-SF	2	Sand Filter	Y	0	1,241	N	N	E	Y	n/a	
P204A-DT	2	Detention	n/a	828	0	Y	Y	n/a	Y	n/a	
P205-SF	2	Sand Filter	Y	0	904	N	N	n/a	Y	n/a	

Table 5.3 Summary of Soils to Evaluate Each BMP									
DP #	**BMP ID**	**BMP Type** (e.g., bioretention, tree filter)	**Soils Analysis for Each BMP**						
			Test Pit ID# and Ground Elevation		SHWT Elevation (ft)	Bottom of Practice Elevation* (ft)	Separation Distance Provided (ft)	Hydrologic Soil Group (A, B, C, D)	Exfiltration Rate Applied (in/hr)
			Primary	Secondary					
1	P201-DT	Detention	TH2 (34")		47.17	48	0.83	C	0.27
2	P204A-DT	Detention	TH8 (24")		46.00	47	1.0	C	0.27
		TOTALS:							

* For underground infiltration systems (UICs) bottom equals bottom of stone, for surface infiltration basins bottom equals bottom of basin, for filters bottom equals interface of storage and top of filter layer

LAND USES WITH HIGHER POTENTIAL POLLUTANTS LOADS (LUHPPLs) – MINIMUM STANDARD 8			
YES	**NO**	**N/A**	
☐	☐	☒	Describe any LUHPPLs identified in Part 1, Minimum Standard 8, Section 2. If not applicable, continue to Minimum Standard 9.
☐	☐	☒	Are these activities already covered under an MSGP? If "No," please explain if you have applied for an MSGP or intend to do so?
☐	☐	☒	List the specific BMPs that are proposed for this project that receive stormwater from LUHPPL drainage areas. These BMP types must be listed in RISDISM Table 3-3, "Acceptable BMPs for Use at LUHPPLs." Please list BMPs:
☐	☐	☒	Additional BMPs, or additional pretreatment BMP's if any, that meet RIPDES MSGP requirements; Please list BMPs:
			Indicate below where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.).

ILLICIT DISCHARGES – MINIMUM STANDARD 9			
Illicit discharges are defined as unpermitted discharges to Waters of the State that do not consist entirely of stormwater or uncontaminated groundwater, except for certain discharges identified in the RIPDES Phase II Stormwater General Permit.			
YES	**NO**	**N/A**	
☒	☐	☐	Have you checked for illicit discharges?
☐	☒	☐	Have any been found and/or corrected? If "Yes," please identify.
☒	☐	☐	Does your report explain preventative measures that keep non-stormwater discharges out of the Waters of the State (during and after construction)?

SOIL EROSION AND SEDIMENT CONTROL (SESC) – MINIMUM STANDARD 10

YES	NO	N/A		
☒	☐	☐	Have you included a Soil Erosion and Sediment Control Plan Set and/or Complete Construction Plan Set?	
☒	☐	☐	Have you provided a **separately-bound** document based upon the SESC Template? If yes, proceed to Minimum Standard 11 (the following items can be assumed to be addressed).	
			If "No," include a document with your submittal that addresses the following elements of an SESC Plan:	
			☐	Soil Erosion and Sediment Control Plan Project Narrative, including a description of how the fifteen (15) Performance Criteria have been met:
			☐	Provide Natural Buffers and Maintain Existing Vegetation
			☐	Minimize Area of Disturbance
			☐	Minimize the Disturbance of Steep Slopes
			☐	Preserve Topsoil
			☐	Stabilize Soils
			☐	Protect Storm Drain Inlets
			☐	Protect Storm Drain Outlets
			☐	Establish Temporary Controls for the Protection of Post-Construction Stormwater Control Measures
			☐	Establish Perimeter Controls and Sediment Barriers
			☐	Divert or Manage Run-On from Up-Gradient Areas
			☐	Properly Design Constructed Stormwater Conveyance Channels
			☐	Retain Sediment On-Site
			☐	Control Temporary Increases in Stormwater Velocity, Volume, and Peak Flows
			☐	Apply Construction Activity Pollution Prevention Control Measures
			☐	Install, Inspect, and Maintain Control Measures and Take Corrective Actions
			☐	Qualified SESC Plan Preparer's Information and Certification
			☐	Operator's Information and Certification; if not known at the time of application, the Operator must certify the SESC Plan upon selection and prior to initiating site activities
			☐	Description of Control Measures, such as Temporary Sediment Trapping and Conveyance Practices, including design calculations and supporting documentation, as required

STORMWATER MANAGEMENT SYSTEM OPERATION, MAINTENANCE, AND POLLUTION PREVENTION PLAN – MINIMUM STANDARDS 7 AND 9		
Operation and Maintenance Section		
YES	**NO**	
☒	☐	Have you minimized all sources of pollutant contact with stormwater runoff, to the maximum extent practicable?
☒	☐	Have you provided a **separately-bound** Operation and Maintenance Plan for the site and for all of the BMPs, and does it address each element of RICR 8.17 and RISDISM Appendix C and E?
☒	☐	Lawn, Garden, and Landscape Management meet the requirements of RISDISM Section G.7? If "No," why not?
☒	☐	Is the property owner or homeowner's association responsible for the stormwater maintenance of all BMP's? If "No," you must provide a legally binding and enforceable maintenance agreement (see RISDISM Appendix E, page 26) that identifies the entity that will be responsible for maintenance of the stormwater. Indicate where this agreement can be found in your report (i.e., name of report/document, page numbers, appendices, etc.).
☐	☒	Do you anticipate that you will need legal agreements related to the stormwater structures? (e.g. off-site easements, deed restrictions, covenants, or ELUR per the Remediation Regulations). If "Yes," have you obtained them? Or please explain your plan to obtain them: Homeowner maintenance agreement will be required. Will be established as part of town permitting and recorded as required by town.
☐	☒	Is stormwater being directed from public areas to private property? If "Yes," note the following: Note: This is not allowed unless a funding mechanism is in place to provide the finances for the long-term maintenance of the BMP and drainage, or a funding mechanism is demonstrated that can guarantee the long-term maintenance of a stormwater BMP by an individual homeowner.

Pollution Prevention Section		
☐	☒	Designated snow stockpile locations?
☒	☐	Trash racks to prevent floatables, trash, and debris from discharging to Waters of the State?
☐	☒	Asphalt-only based sealants?
☐	☒	Pet waste stations? (Note: If a receiving water has a bacterial impairment, and the project involves housing units, then this could be an important part of your pollution prevention plan).
☒	☐	Regular sweeping? Please describe:
☐	☒	De-icing specifications, in accordance with RISDISM Appendix G. (NOTE: If the groundwater is GAA, or this area contributes to a drinking water supply, then this could be an important part of your pollution prevention plan).
☒	☐	A prohibition of phosphate-based fertilizers? (Note: If the site discharges to a phosphorus impaired waterbody, then this could be an important part of your pollution prevention plan).

PART 4. SUBWATERSHED MAPPING AND SITE-PLAN DETAILS

Existing and Proposed Subwatershed Mapping (REQUIRED)			
YES	**NO**		
☒	☐		Existing and proposed drainage area delineations
☒	☐		Locations of all streams and drainage swales
☒	☐		Drainage flow paths, mapped according to the DEM *Guidance for Preparation of Drainage Area Maps* (included in RISDISM Appendix K)
☒	☐		Complete drainage area boundaries; include off-site areas in both mapping and analyses, as applicable
☒	☐		Logs of borings and/or test pit investigations along with supporting soils/geotechnical report
☒	☐		Mapped seasonal high-water-table test pit locations
☒	☐		Mapped locations of the site-specific borings and/or test pits and soils information from the test pits at the locations of the BMPs
☒	☐		Mapped locations of the BMPs, with the BMPs consistently identified on the Site Construction Plans
☒	☒		Mapped bedrock outcrops adjacent to any infiltration BMP
☒	☐		Soils were logged by a:
		☒	DEM-licensed Class IV soil evaluator Name: Kathleen Mangan
		☐	RI-registered P.E. Name:

Subwatershed and Impervious Area Summary				
Subwatershed (area to each design point)	**First Receiving Water ID or MS4**	**Area Disturbed (acres)**	**Existing Impervious (acres)**	**Proposed Impervious (acres)**
FW Wetlands	RI0007029R-01A	26.21	4.45	6.96
Western Abutters	RI0007029E-01N	21.95	0.0	4.69
TOTALS:				

Site Construction Plans (Indicate that the following applicable specifications are provided)		
YES	**NO**	
☒	☐	Existing and proposed plans (scale not greater than 1" = 40') with North arrow
☒	☐	Existing and proposed site topography (with 1 or 2-foot contours); 10-foot contours accepted for off-site areas
☒	☐	Boundaries of existing predominant vegetation and proposed limits of clearing

☒	☐	Site Location clarification
☒	☐	Location and field-verified boundaries of resource protection areas such as: ▸ freshwater and coastal wetlands, including lakes and ponds ▸ coastal shoreline features Perennial and intermittent streams, in addition to Areas Subject to Storm Flowage (ASSFs)
☒	☐	All required setbacks (e.g., buffers, water-supply wells, septic systems)
☒	☐	Representative cross-section and profile drawings, and notes and details of structural stormwater management practices and conveyances (i.e., storm drains, open channels, swales, etc.), which include: ▸ Location and size of the stormwater treatment practices (type of practice, depth, area). Stormwater treatment practices (BMPs) must have labels that correspond to RISDISM Table 5-2; ▸ Design water surface elevations (applicable storms); ▸ Structural details of outlet structures, embankments, spillways, stilling basins, grade-control structures, conveyance channels, etc.; ▸ Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.); ▸ Location of floodplain and, if applicable, floodway limits and relationship of site to upstream and downstream properties or drainage that could be affected by work in the floodplain; ▸ Planting plans for structural stormwater BMPs, including species, size, planting methods, and maintenance requirements of proposed planting
☒	☐	Logs of borings and/or test pit investigations along with supporting soils/geotechnical report and corresponding water tables
☐	☒	Mapping of any OWM-approved remedial actions/systems (including ELURs)
☒	☐	Location of existing and proposed roads, buildings, and other structures including limits of disturbance; ▸ Existing and proposed utilities (e.g., water, sewer, gas, electric) and easements; ▸ Location of existing and proposed conveyance systems, such as grass channels, swales, and storm drains, and location(s) of final discharge point(s) (wetland, waterbody, etc.); ▸ Cross sections of roadways, with edge details such as curbs and sidewalks; ▸ Location and dimensions of channel modifications, such as bridge or culvert crossings
☐	☒	Locations, cross sections, and profiles of all stream or wetland crossings and their method of stabilization