

**STORMWATER POLLUTION PREVENTION PLAN
EROSION AND SEDIMENT CONTROL
MONTANTE XEROX SOLAR DEVELOPMENT
TOWN OF WEBSTER
MONROE COUNTY, NEW YORK**



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SIGNATURE PAGE FOR

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Executive Summary

This narrative defines existing and proposed site conditions, the potential impact of stormwater runoff on neighboring lands due to the proposed conditions, how stormwater will be managed during and after the construction period, mitigation of any additional stormwater runoff generated from development of this project, the duration of soil disturbance and stabilization practices, and appoints who will be responsible for implementing and maintaining the practices.

The practices specified herein will follow the New York State Standards and Specifications for Erosion and Sediment Control Devices in conjunction with the current NYS Stormwater Management Design Manual.

PURPOSE OF THE SWPPP - EROSION AND SEDIMENT CONTROL PLAN

This Erosion and Sediment Control (ESC) Plan was created to ensure compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharge from Construction Activity (GP-0-25-001). A copy of the General Permit is included in **Appendix A** and the project's Electronic Notice of Intent (eNOI) application for stormwater discharges is included as **Appendix B**. Once received, the NYSDEC acknowledgement of the NOI and acceptance letter for coverage under the SPDES General Permit (with permit identification number) will be included in **Appendix B**.

DUTY TO COMPLY AND PENALTIES FOR VIOLATION

It shall be a violation of the SPDES General Permit and the New York State Environmental Conservation Law (ECL) for any discharge to either cause or to contribute to a violation of the water quality standards as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (SPDES General Permit, Part II.A).

For the purposes of the SPDES General Permit, the term "Owner" or "Operator" means the person, persons, or legal entity, which owns or leases the property on which the construction activity is occurring.

The Owner/Operator must comply with all conditions of the SPDES General Permit. All contractors and subcontractors associated with the Project must comply with the terms of the Stormwater Pollution and Prevention Plan (SWPPP). Any permit noncompliance constitutes a violation of the federal Clean Water Acts (CWA) and the ECL and is grounds for enforcement action against the Owner/Operator or the contractor/subcontractor; permit revocation or modification; or denial of a permit renewal application.

The Owner/Operator and all contractors working on this Project shall take all reasonable steps to minimize or prevent any discharge in violation of the SPDES General Permit which has a reasonable likelihood of adversely affecting human health or the environment (SPDES General Permit, Part VII.F.).

There is substantial criminal, civil and administrative penalties associated with violation of the provisions of the SPDES General Permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending on the nature and degree of the violation (SPDES General Permit, Part VII.C.). The Owner/Operator will acknowledge this by signing the "Owner/Operator

Certification Form”, included as **Appendix C**. Prior to commencement of construction activities on site, the operator will obtain certification from the prime contractor involved with earthwork and ESC activities which are subject to the General Permit requirements in order to ensure compliance with the terms and conditions herein. Additional sub-contractors that are involved with earthwork and ESC activities will provide contractor certification prior to commencing work on site. **Appendix D** contains the form that shall be used for obtaining the contractors’ certifications.

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1. Project Information

1.1 PROJECT DESCRIPTION

Montante Solar Development, LLC (Montante) is proposing the installation of a new commercial-scale solar photovoltaic facility (Montante Xerox Solar Development) located within the Xerox Campus property. The Project is sited within a 17.5-Acre plot of land (limits of disturbance, LOD) and includes development for installation of solar panels and supporting infrastructure and will be surrounded by a perimeter fence with access gates in the northeast and southeast corners. A pervious site access drive as well as an equipment pad are proposed to be installed in the southeast corner of the site. The Project is proposed to be connected to the power grid via overhead electric line at the southeast corner of the Site. The general site location (Town of Webster, Monroe County, New York) is shown in **Appendix E, Project Locus**.

The overall planned site disturbance, including access, will be 17.5 acres (limits of disturbance boundary) or less. Soil disturbance will not exceed more than 5 acres at any one time. The Project is located within a Municipal Separate Storm Sewer System (MS4) area (Town of Webster – MS4 Additionally Designated Area – Criterion 3).

1.1.1 Access roads

There are two construction access roads proposed for the site, one will include upgrading an existing site access road at the central southern portion of the site and the other is a new site access proposed at the southeast corner of the site. A permanent pervious access road is proposed at the southeast corner of the site. Construction traffic will not be allowed on the permanent pervious access road.

1.1.2 Above-ground Facilities

There are 5 monitoring wells, one building, an asphalt-capped hazardous waste landfill, and a construction and demolition landfill on the site. The existing building is outside the areas of proposed development. The monitoring wells are to be protected at all times during construction activities, and no development is to be placed within 30 feet of them. Access to the asphalt-capped hazardous waste landfill shall be limited. There shall be no excavation within the limits of either landfill.

The project is proposing installation of 10,872 solar panels, an equipment pad, and 5 utility poles. The solar panels will be constructed using rock gabion baskets as foundations to limit ground disturbance across the site. Excavation will be required for installation of the equipment pad and utility poles. Excavated material will be managed according to Xerox's Soil Management Plan and as part of the Part 373 RCRA Permit.

1.1.3 Temporary Workspaces

There are two laydown areas proposed for the site. The laydown areas will receive soil restoration as necessary during final stabilization of the site. Laydown locations are presented in the Phasing Plan of the ESC Drawings included as **Appendix H**.

1.2 STORMWATER MANAGEMENT OBJECTIVES

The objectives of the proposed Stormwater Management methods and procedures for the project shall be:

- Reduction or elimination of erosion and sediment loading to downstream waterbodies during construction.
- Controlling the impact of stormwater runoff on the water quality of the receiving waters.
- Controlling the temporary increased volume and peak rate of runoff during construction.

1.3 STORMWATER CONDITIONS

Currently, there are portions of the proposed LOD and the existing adjacent roadway (Caracas Drive) that are serviced by roadside ditch(es). The majority of the contributing drainage areas include forested areas, dirt access roads, and impervious surfaces from a building, asphalt, and gravel parking area. The project will require tree clearing. Stormwater from the contributing drainage areas generally leaves the site as sheet flow into either an unnamed tributary to Fourmile Creek (Class C mapped stream) on the west side of the site, or, to an unnamed, unmapped stream which is located to the east of the site. These streams are not listed on the New York State Section 303(d) list of impaired waterbodies.

This project proposes to minimize ground disturbance and restore the disturbed soils to similar pre-construction conditions. An increase in peak runoff rates from the site is anticipated due to tree clearing but is not considered as changing site hydrology as stormwater because the resulting peak runoff rates are not greater than 5% pre-existing conditions according to NYSDEC Solar Development Webinar (July 28, 2025). An increase in water quality volume (WQv) and runoff reduction volume (RRv) due to impervious surface area from solar panel installation will be treated using non-rooftop disconnection to pervious areas between solar panels. Solar panels placed on slopes $\geq 8\%$ are proposed to have gravel diaphragms installed on the downgrade contour to return flow to sheet flow, thus meeting the requirements of WQv and RRv. Requirements for channel protection volume (CPv), overbank flood protection (Qp), and extreme flood (Qf) are met through use of gravel diaphragms to return flow from solar panels to sheet flow and proof the solar panels will not alter site hydrology. Calculations for Unified Stormwater Sizing Criteria (USSC) are included as **Appendix K**.

1.4 SOILS

The soil types and hydrologic groups present within the project are included in the following table:

Table 1. Project Soils

Soil Map Unit Symbol	Soil Map Unit Name	Approximate Acres within Study Area	Drainage Class	Hydric Conditions ¹
BcB	Benson channery loam, 0 to 8 percent slopes	1.7	Somewhat excessively drained	Not Hydric
EIA	Elnora loamy fine sand, 0 to 2 percent slopes	4.8	Moderately well drained	Not Hydric
GaA	Galen very fine sandy loam, 0 to 2 percent slopes	0.4	Moderately well drained	Not Hydric
GaB	Galen very fine sandy loam, 2 to 6 percent slopes	0.4	Moderately well drained	Not Hydric
Mn	Minoa very fine sandy loam	2.8	Somewhat poorly drained	Not Hydric
PhB	Phelps gravelly fine sandy loam, 3 to 8 percent slopes	0.1	Moderately well drained	Not Hydric
WfA	Wassaic fine sandy loam, 0 to 4 percent slopes	12.8	Moderately well drained	Not Hydric

Notes:

¹ Soil Mapping has been included as **Appendix F**.

². "Hydric" indicates this soil is listed in the State Soil Data Access (SDA) Hydric Soils List (NRCS, 2023).

1.4.1 Soils Descriptions

A description of the primary soil series found within the project area and adjacent areas are located below. See **Appendix F** for mapping of all soil series located within the project area.

Benson channery loam, zero to eight percent slopes (BcB). These soils are located on benches, ridges, and plains. The parent material consists of channery loam till underlain by limestone or calcareous shale. Depth to a root restrictive layer, lithic bedrock, is reported to be 10 to 20 inches below ground surface (bgs). The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is very low. This soil is not flooded nor is it ponded. There is no zone of saturation of water within a depth of 72 inches bgs.

Elnora loamy fine sand, zero to two percent slopes (EIA). These soils are located on proglacial beach ridges and proglacial deltas. The parent material consists of sandy glaciofluvial, eolian, or deltaic deposits. Depth to a root restrictive layer is reported to be greater than 60 inches bgs. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. These soils are not flooded nor are they ponded. Available water to a depth of 60 inches is low.

Galen very fine sandy loam, zero to 2 percent slopes (GaA). These soils are found on proglacial deltas on lake plains. The parent material consists of deltaic deposits with a high content of fine and very fine sand. Depth to a root restrictive layer is greater than 60 inches bgs. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is relatively high. Available water to a depth of 60 inches is moderate. This soil is not flooded nor is it ponded.

Galen very fine sandy loam, two to six percent slopes (GaB). These soils are found on proglacial deltas on lake plains. The parent material consists of deltaic deposits with a high content of fine and very fine sand. Depth to a root restrictive layer is greater than 60 inches bgs. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. This soil is not flooded, nor is it ponded.

Minoa very fine sandy loam, zero to two percent slopes (Mn). These soils are found on proglacial deltas on lake plains. The parent material consists of deltaic or glaciolacustrine deposits with a high content of fine and very fine sand. Depth to a root restrictive layer is greater than 60 inches bgs. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is relatively high. This soil is not flooded, nor is it ponded.

Phelps gravelly fine sandy loam, three to eight percent slopes (PhB). These soils are found on valley trains and terraces. The parent material consists of loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. Depth to a root restrictive layer is greater than 60 inches bgs. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is low. This soil is not flooded, nor is it ponded.

Wassaic fine sandy loam, zero to four percent slopes (WfA). These soils are found on benches, ridges, and till plains. The parent material consists of loamy till derived mainly from limestone, with varying amounts of sandstone, shale, and crystalline rock. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches bgs. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches is low. This soil is not flooded, nor is it ponded.

1.5 PROPOSED PROJECT ACTIVITY DURATION

The project construction is anticipated to take approximately four to six months to complete. Tree clearing is expected to begin Winter 2025-2026, and general construction is expected to begin in Spring 2026. Construction is expected to be completed in Summer 2026.

Project Activity Duration: Winter 2025-2026 through Summer 2026.

1.6 ENVIRONMENTAL SENSITIVE AREAS

There is one federally mapped wetland (an emergent wetland) and no previously mapped NYSDEC wetlands within the limits of disturbance. The closest mapped stream is located approximately 60 feet west of the project (Class C unnamed tributary to Fourmile Creek). Additional state and/or federal mapped wetlands located adjacent to the project are depicted on the Federal and State Aquatic Resources mapping included in **Appendix I**. Field investigations to delineate wetlands and streams within and adjacent to the Project were completed by two H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) wetland scientists on 22 October 2024. A total of three wetlands and one stream were identified. Of these delineated features, only the delineated wetlands will be impacted. The delineated stream is located west of the project (corresponding with the mapped stream above) and this resource will not be impacted by construction or ongoing operations. The delineated wetlands include palustrine emergent and palustrine forested wetlands within the western and central portions of the site. In addition to the delineated streams and wetlands, four drainage ditches (initially

presumed non-jurisdictional) were delineated within the site. In later correspondence with USACE they indicated the ditches would be considered jurisdictional Waters of the U.S.

Based on correspondence with the USACE, hand felling trees, cut flush to the ground with stumps left in place, and installing perimeter fence with driven piles/poles in wetland areas are not considered fill activities. Tree clearing, using this method, is proposed within the three delineated wetlands on-site. Additionally, portions of the perimeter fence are proposed to bisect Wetland KLC. No fill will be installed around the perimeter of the poles, the fence will be supported by the driven poles only.

The placement of the geoballast foundations within the wetlands and drainage ditches is considered fill by USACE. Due to the required spacing of the solar arrays and geoballast foundations, there will be unavoidable fill within the delineated wetlands and drainage ditches (Waters of the U.S). USACE Nationwide permit authorization was obtained for the Project to address the unavoidable fill activities in the wetlands (0.03 acre) and drainage ditches (0.1 acre) within the site. A copy of the USACE permit authorization is included in **Appendix I**.

In addition to the USACE Nationwide permit authorization, Haley & Aldrich of New York also confirmed with NYSDEC that none of the delineated wetlands within the Project site or its immediate vicinity would be considered jurisdictional by NYSDEC. A copy of the confirmation letter is included in **Appendix I**.

1.7 THREATENED AND ENDANGERED SPECIES

Montante has reviewed and/or consulted the NYSDEC Natural Heritage Program records and United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) regarding potential presence of federally or state-listed species and significant habitats in the vicinity of the project. A copy of the consultation information is provided in **Appendix G**.

1.7.1 NYSDEC – Natural Heritage Division

On behalf of Montante, Haley & Aldrich of New York completed a review of the New York State Environment Resource Mapper (EnviroMapper) tool, which indicated that there were no state-designated rare, threatened, or endangered species, associated protected habitats, or significant natural communities present within the project area. Therefore, a submittal letter to the New York Natural Heritage Program (NYNHP) is not required for the project.

1.7.2 USFWS

According to the U.S. Fish & Wildlife Service (USFWS)' Information, Planning and Consultation System (IPaC System) screening of the Project, the federally designated proposed threatened monarch butterfly (*Danaus plexippus*) is the only threatened or endangered species potentially located within the vicinity of the Project. Monarch butterflies are a wide-ranging migratory species, which span across North America. The species can use a variety of different habitats (e.g., scrub-shrub or herbaceous wetlands, hardwood or coniferous woodland, old fields, cropland or hedgerow, grassland, etc.), however, they require healthy and abundant milkweed plants (*Asclepias spp.*) within these habitats for both laying eggs on and as a food source for caterpillars. Additionally, a wide variety of native blooming flowers are needed for adults throughout the breeding season, migration and overwintering.

The Project area is comprised of mixed hardwood forest, open herbaceous areas, and an inactive, asphalt-capped landfill. Portions of the forested and herbaceous areas have been previously disturbed for the installation of gravel roads to access well monitoring and remedial infrastructure. The tree stratum is dominated by red and sugar maple (*Acer rubrum* and *A. saccharum*, respectively), eastern cottonwood (*Populus deltoides*), and black cherry (*Prunus serotina*). The sapling/shrub stratum is dominated by maple, cherry, and ash (*Fraxinus spp.*) saplings, honeysuckle (*Lonicera spp.*), and European buckthorn (*Rhamnus cathartica*). The herbaceous stratum is dominated by rambler's rose (*Rosa multiflora*), mugwort (*Artemisia vulgaris*), goldenrod (*Solidago spp.*), common reed (*Phragmites australis*), and various grasses (*Poa spp.*, *Festuca spp.*, etc.). During the field reconnaissance, no milkweed plants were observed within the Project area; if milkweed is present, it is likely within sporadic or scattered patches that do not serve as an abundant food or habitat resource. It is possible that adult monarchs could utilize goldenrod or other less abundant flowering plants as a food source during migration. However, due to the relatively low quality of habitat with a prevalence of non-native species and lack of substantial milkweed habitat, the Project area is not likely to currently support significant populations of monarch butterflies.

Upon completion of construction activities, Montante is committed to planting pollinator-friendly herbaceous species, including milkweed, in various locations within the Project footprint; this will help to provide new potential monarch butterfly habitat. Proposed pollinator plantings that are depicted in Wetland KLB will be comprised of facultative wetland or obligate wetland pollinator species [e.g., swamp milkweed (*Asclepias incarnata*), spotted trumpetweed (*Eutrochium maculatum*), New England American aster (*Symphyotrichum novae-angliae*)]. The Project is currently proposed within mostly existing disturbed landscape including asphalt, existing infrastructure, and forested areas. There is very little if any current prime habitat for the butterfly, and the proposed plantings of pollinator friendly species will provide potential future habitat and/or food sources. Therefore, the Project would be expected to have a net benefit to the species and would not be anticipated to adversely impact the species.

Copies of agency correspondence, consultation letters, and/or clearances are included in Agency Correspondence (**Appendix G**).

1.8 CONSTRUCTION IMPACTS ON THREATENED AND ENDANGERED SPECIES

Based on completed consultations and a review of the available online species information provided by the NYNHP and USFWS, the proposed project is not expected to adversely affect Rare, Threatened, and Endangered (RTE) species.

1.9 CULTURAL RESOURCES AND ARCHEOLOGICAL STUDIES

Montante recognizes Section 106 of the National Historic Preservation Act requires the accounting for effects of an undertaking on historic properties listed in or as eligible for listing in the National Register of Historic Places, consultation with the New York State Office of Parks, Recreation, and Historic Preservation (NYSOPRHP).

To assess the project for potential effects on cultural and/or historical resources, Haley & Aldrich of New York submitted consultation correspondence to the New York State Historic Preservation Offices (SHPO) on behalf of Montante. On March 19, 2025 the SHPO responded with a letter (**see Appendix G**) stating that project activities would have No Effect on historic properties, including archaeological and/or historic resources.

If any human remains or archaeological remains are encountered during excavation, the owner/operator must immediately cease, or cause to cease, all construction activity in the area of the remains and notify the appropriate Regional Water Engineer (RWE). Construction activity shall not resume until written permission to do so has been received from the RWE.

To notify the appropriate RWE contact the NYSDEC Division of Water at 518-402-8111 (ext. 3505) or at DOWinformation@dec.ny.gov.

1.10 IMPERVIOUS AREAS

The proposed project LOD will cross and/or utilize access through existing and proposed impervious surfaced roadways. The pre-development impervious area at the site is approximately 150,635 square feet (3.5 Acres). Two stabilized construction entrances are proposed for construction access. The two proposed entrances will be demolished and the areas beneath restored to pre-existing conditions. The post-development impervious area would be approximately 8.3-acres (increase of 4.8 Acres) and will be handled according to the NYSDEC guidance for solar development.

1.11 POST-CONSTRUCTION DRAINAGE

There is no change expected for flow paths across the site. The project is expected to cause an increase in runoff from the site, but peak discharge rates are expected to remain within the 5% increase of peak discharge rates threshold outlined by the NYSDEC. Because post-construction discharge rates for the 10-year and 100-year design storms remain within the 5% rate increase from pre-construction to post-construction, the project is not expected to change the site's hydrology. Water quality volume and runoff reduction volume requirements for the increased post-construction impervious areas are to be met using filter strips to treat runoff as disconnected non-rooftop runoff. Solar panels installed on continuous slopes $\geq 8\%$ are proposed to have gravel diaphragms installed along the downgrade contour to return flow to sheet flow. The construction workspaces and laydown areas will undergo soil restoration and will be returned to pre-construction conditions.

1.12 WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES

Best Management Practices (BMPs) provided on the ESC Plans, **Appendix H**, are proposed to minimize impacts to adjacent streams and wetlands during construction. The BMPs have also been developed to meet the NYSDEC New York State Standards and Specifications for Erosion and Sediment Control requirements.

Solar panels and fencing are proposed in wetland areas, thus, adjacent streams and wetlands will be protected through the installation perimeter erosion and sediment controls to be located in areas downgradient of construction. A Spill Prevention and Response Plan (SPRP) will be implemented for spills of material which might impact these adjacent resources. Refer to **Appendix J** for SPRP.

Montante will utilize BMPs throughout construction to protect the environment and to minimize potential effects of the project. Direct impacts associated with construction will be temporary in nature based on the restoration following construction. No permanent fill will be placed in any water resources as a result of construction. Measures to avoid or minimize potential impacts to protected resources are planned to include:

- Adjacent wetland/stream boundaries and buffers will be clearly marked in the field with signs and/or highly visible flagging until construction-related ground disturbing activities are complete.
- Any construction activities that do need to occur within or in proximity to adjacent streams wetlands will be closely monitored and have spill kits present at all times.
- Where wetlands/streams are within or adjacent to the LOD and the LOD slopes towards these features, sediment barriers will be installed along the edge of the construction workspaces as is necessary to prevent sediment or pollutant flow into these areas.
- Inspection of culverts and other resource crossing points periodically throughout construction. Repairs to crossing point areas will be conducted as needed.

Site specific restoration and/or stabilization measures of existing resources in the LOD will be undertaken to restore natural flow conditions and be completed in accordance with other applicable agency permit requirements or restrictions.

1.13 FUTURE UTILITIES

Other than the installation of the new aboveground electric lines from the solar arrays, equipment pad, and proposed electric utility lines, the project will not create new utilities or have a need to make improvements to existing utilities, facilities, or services.

1.14 PROPOSED DRAINAGE AREA DIVIDE LINES

This project is proposing no modifications to the grade as compared to the pre-construction conditions.

There are no anticipated changes to the drainage area divide lines of the project.

1.15 SECTION 303 (D) LISTED IMPAIRED WATERS

The stormwater runoff from the project site discharges to a NYSDEC mapped unnamed Class C stream, which continues into a NYSDEC mapped Class C stream (Fourmile Creek). These waterbodies are not listed on the section 303 (d) List of Impaired Waters and do not require a TMDL.

1.16 POTENTIAL FUTURE CLIMATE CHANGE RISK ON PROJECT CONSTRUCTION AND FACILITIES

The Project includes the proposed installation of a solar renewable energy facility. According to the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) Viewer, the Project is not located within a FEMA flood hazard zone (outside of 100- and 500-year flooding). The Project is also not located within or adjacent to a New York State Coastal zone that may be subject to sea level rise, increasing storm surge, or increased flooding.

The Project does not include structural facilities that would be at risk from or increase the rate of flooding or damage from increased intensity of storms. The Project proposes minor increases to impervious surfaces and, therefore, is not anticipated to reduce the flood storage capacity of the lands surrounding or within the Project area. The minimal Post Construction Stormwater Management practices proposed (gravel diaphragms) have been sized appropriately for potential increased storm and flood conditions.

Increased precipitation and intensity of storms can increase land erosion, especially on steep slopes and stream crossings. See Section 3.2 below for a description of permanent erosion control measures that will be installed to reduce surface water runoff velocity and prevent sediment deposition into sensitive resources that will help to mitigate potential increases in precipitation due to climate change. Additionally, temporary and permanent stabilization measures of disturbed soils will be implemented throughout the Project to prevent erosion of ground surfaces. Inspections and maintenance of erosion and sediment control structures throughout the Project duration, especially after storm events, will ensure the protection of Project facilities and sensitive resources during construction.

Shifting ecology due to increased temperature and storm events may result in the introduction of invasive plant species, which are non-native species that can disrupt functioning ecosystems by displacing native species and reducing overall diversity. Montante will implement specific measures to prevent the unintentional introduction of invasive, noxious, or exotic weeds to the Project workspaces and adjacent areas. Machinery and materials brought onto the site will be free of any visible soil, vegetation, or debris prior to entering construction workspaces. In addition, construction materials such as seed mixes, mulch material, and gravel being brought into the Project area from an outside source will be visually inspected or documented by vendors (as practicable) to be free of possible invasive plant material.

In general, due to the nature and location of the Project, the risk to Project construction and maintenance as a result of climate change is relatively low. A solar project offers significant benefits in the fight against climate change by reducing reliance on fossil fuels, thereby lowering greenhouse gas emissions. By harnessing renewable energy, solar power helps mitigate the effects of global warming, reduces air pollution, and promotes sustainable energy practices. Additionally, solar energy contributes to reducing the carbon footprint of both individuals and industries, fostering long-term environmental health.

2. SWPPP Responsibility

The SPDES General Permit for Stormwater Discharge from Construction Activity (GP-0-25-001) requires certain conditions to be met in order to maintain permit coverage.

2.1 SWPPP IMPLEMENTATION

Owner/Operator Name:

Montante Solar Development, LLC

Owner/Operator Contact:

Katie Soscia
2760 Kenmore Avenue
Buffalo, New York 14150
716-876-8899
ksoscia@montante.com

The Owner/Operator shall ultimately be responsible for the implementation of all the SWPPP requirements and procedures. All Contractors and subcontractors involved in earthwork and ESC activities shall be responsible to follow the requirements of the SWPPP. These Contractors, Prime and Subcontractor, shall have the responsibility of reviewing and understanding the requirements of the SWPPP and shall sign the contractor certification statement (**Appendix D**), prior to their work on the Project site. The Owner/Operator shall sign the "Owner/Operator Certification Form" (**Appendix C**) prior to proceeding with earth disturbance.

The Owner/Operator will be responsible to obtain a qualified inspector to document the environmental conditions and provide a list of NYSDEC compliance deficiencies in accordance with the General Permit for Stormwater Discharges.

The Owner/Operator shall have each Contractor and Subcontractor that is involved with earthwork and ESC activities identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the "Trained Contractor". The Owner/Operator shall ensure that at least one Trained Contractor, which has received four (4) hours of endorsed E&SC training, is present daily at the Project site when soil disturbance and ESC activities are being performed.

The Project Contractors have not been selected at this time.

2.2 SWPPP INSPECTION

The SWPPP inspections shall be performed by a Qualified Inspector or a Qualified Professional such as a Licensed Professional Engineer, a person that has received four hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entities, Certified Professional in Erosion and Sediment Control (CPESC),

or a Registered Landscape Architect. The NYSDEC website provide a training calendar with training events for Trained Contractor and Qualified Inspector classes at the following web address:

[Construction Stormwater Toolbox - NYSDEC](#)

The SWPPP inspections shall take place at a minimum of once every seven calendar days. The Owner/Operator shall be responsible for hiring and/or obtaining the services of Qualified Inspector or Professional to conduct the SWPPP inspections as per the above requirements and time frame.

The project Contractor shall be responsible for the daily visual inspection (within the active work areas) of BMP devices to verify performance and to repair, modify or replace when not adequately controlling erosion and sediment control or functioning as intended.

2.2.1 INSPECTION FREQUENCY

The SWPPP inspections (completed by the Qualified Inspector) shall take place at a minimum of once a week (once per seven days) during active construction when soil disturbance activities are on-going. For construction sites which have received a five-acre waiver from the NYSDEC, the inspector must conduct at least two site inspections every seven calendar days (these inspections must be separated by a minimum of two full calendar days).

Inspection frequency may be reduced to once every 30 calendar days during periods of temporary project suspension (winter shutdown IF all areas of disturbance have temporary stabilization measures applied) or following completion of the project construction and monitoring for project restoration, following approval from NYSDEC. The project Owner (Montante) is required to notify the regional SPDES Program contact, or in areas under jurisdiction of an MS4, the MS4 contact, in writing prior to reducing the inspection frequency.

Once construction site disturbance activities are completed, the site has achieved final stabilization (>80 % vegetative growth), and any PCSM measures (if required) have been completed, the inspections can be completed and Montante would file the Electronic Notice of Termination (eNOT) form, to the NYSDEC and regulated MS4 (as applicable).

The project Contractor shall be responsible for the day-to-day visual inspection of BMP devices in the active construction areas, to verify performance and to repair, modify or replace when not adequately controlling erosion and providing sediment control.

2.3 SWPPP INSPECTION REPORT AND CORRECTIVE ACTIONS

The Qualified Inspector shall prepare an inspection report subsequent to each inspection. At a minimum, the inspection report shall include and/or address: date and time of inspection; name/title of inspector; weather and soil conditions; runoff conditions; water body and discharge conditions; identify erosion and sediment control repair and maintenance required; replacement and modifications to erosion and sediment controls; description/sketch and size of current disturbed areas and stabilized areas; current phase of construction; identify all construction/practices not in accordance with SWPPP and technical standards; and digital photographs with date stamp.

Within one business day of the inspection, the Qualified Inspector shall notify the Owner/Operator and Contractor/Subcontractor of any corrective actions that need to be taken. If deficiencies are identified, the Contractor must:

- If the corrective action does not require engineering design:
 - Begin implementing corrective actions within one business day; and
 - Complete the corrective actions within five business days; or
- If the corrective action requires engineering design:
 - Begin the engineering design process within five business days; and
 - Complete the corrective action in a reasonable time frame but no
 - later than within 60 calendar days.

A corrective action not requiring engineering design refers to a straightforward, immediate response to an environmental or regulatory issue that can be addressed through simple operational adjustments, maintenance, or minor procedural changes, without the need for a detailed, technical plan or engineering expertise. These actions are typically quick to implement and rely on existing systems, standard practices, or readily available solutions that don't involve complex calculations, specifications, or custom-designed structures.

All inspection reports are to be signed by the Qualified Inspector. Within seven days of the inspection, photographs of the completion of the corrective action work shall be attached to the inspection report. Inspection reports shall be maintained on the construction site within the SWPPP (**Appendix L**).

2.4 POST CONSTRUCTION STORMWATER MANAGEMENT RESPONSIBILITY

The project proposes the installation of a new commercial-scale solar photovoltaic facility. Disturbed areas from construction traffic, laydown areas, and construction entrances will be restored to pre-construction conditions. Installation of solar panels on slopes 8% and greater is expected to increase shallow concentrated flow across limited sections of the site. Flow diffusers are proposed to reduce shallow concentrated flows from solar panel installations to sheet flow. A pervious access road is proposed to serve as permanent access to the site.

Flow diffusers are to be maintained by the Owner. Flow diffusers are to be cleared of debris or sediment during regular site maintenance.

The pervious access road is to be maintained by the Owner. There shall be no traffic utilizing the pervious access road during construction.

When construction is complete, and the Qualified Inspector or Qualified Professional determines that the requirements of the construction permit have been satisfied the Electronic Notice of Termination (eNOT) form will be prepared and signed by the Owner/operator and the Qualified Inspector. The eNOT form will then be submitted to the NYSDEC. The Owner shall retain a copy of the Notice of Intent (NOI), NOI acknowledgement letter, SWPPP, and all completed inspection reports for a period of at least five years from the NYSDEC receipt of the eNOT submission.

3. Erosion and Sediment Control Measures

Construction operations will be carried out in such a manner that erosion will be controlled, and water and air pollution minimized. Federal, State, and local laws concerning pollution abatement will be followed. The following section contains the minimum erosion and sediment control measures to be practiced on the project site during the duration of coverage under the SPDES General Permit for Stormwater Discharges. The Contractor and Subcontractor(s) shall refer to the ESC drawings (**Appendix H**), BMP drawings (**Appendix H-Detail Sheets**) as well as this SWPPP report for the complete requirements for erosion and sediment control for the project site. The Contractor and Subcontractor(s) shall also be responsible for observing additional state or Federal requirements (as applicable).

3.1 TEMPORARY EROSION CONTROL MEASURES

This section describes temporary erosion control measures anticipated for the project. Refer also to **Appendix H-Erosion and Sediment Control Plan Drawings, Detail and Note Sheets**.

3.1.1 Dust Control

Dust control shall be accomplished on-site through watering only. Calcium chloride or other chemicals used for dust control will not be allowed. The contractor shall provide a positive means to prevent air-borne dust from being generated. At a minimum, sweeping on paved areas, water sprinkling and mulching on unpaved areas shall be provided, as necessary.

3.1.2 Temporary Construction Entrance

Prior to any construction activity, a non-erosive means of access will be provided at the road entrance/workspace access. Construction access measures (see specific proposed measures outlined in **Appendix H**) shall be completed prior to commencing construction traffic usage. The entrance will be maintained and repaired as necessary. Mud and dirt tracked onto the public roadway shall be cleaned daily and cleaned immediately in the instance of a potential safety issue to vehicles, pedestrians, or construction personnel.

3.1.3 Sediment Barrier (Sediment filter sock)

Sediment barriers shall be used during construction as a temporary sediment and erosion control measure. Sediment barriers are to be installed perpendicular to grade/parallel to contours and down gradient of disturbed soils as per the erosion and sediment control plans or as directed by the Owner or Owner's representative. Sediment filter socks are to be utilized for areas downgrade of proposed spoil piles (installed at least 10-feet from the toe of the foot of piles). Sediment shall be removed prior to 50% accumulation of the storage capacity of the sediment barrier.

Sediment filter socks are an acceptable sediment barrier that may be installed as a substitute for silt fence. Sediment filter socks can also be used in support of primary BMPs and are especially useful in areas with a short duration of disturbance. The design plans illustrate the minimum BMPs required for ESC protection and site compliance. At locations of sediment barriers, the Contractor may utilize filter socks for erosion and sediment control protection if the use is applicable. Sediment filter socks may also

be used as check dams when the use and installation comply with the detail as provided in the New York State Standards and Specifications for Erosion and Sediment Control.

Sediment barriers are intended to stop the flow of sediments and prevent the deposition of sediments into sensitive resources.

- At a minimum, install and maintain temporary sediment barriers across all construction workspaces at the base of slopes greater than five percent where the base of the slope is less than 50 feet from a water body, wetland, or road crossing until revegetation is successful as defined in this Plan. Leave adequate room between the base of the slope and the sediment barrier to accommodate ponding of water and sediment deposition.
- Where water bodies are adjacent to and down slope of construction work areas, install reinforced sediment barriers along the edge of these areas, as necessary to prevent sediment flow into the wetland or water body.
- Install temporary sediment barriers at the base of slopes until disturbed vegetation has been reestablished.
- Inspect and maintain all temporary sediment barriers throughout the construction project in accordance with the requirements of the SPDES General Permit for Stormwater Discharges.
- Maintain all temporary sediment barriers in place until permanent revegetation measures are successful or the upland areas adjacent to wetlands, water bodies, or roads are stabilized (>80% vegetative growth).
- Contractor shall incorporate appropriate erosion/sediment control measures in work staging and storage areas.
- Remove temporary sediment barriers from areas that are successfully revegetated (>80% revegetation).

Proposed sediment barriers are shown on the ESC plan drawings (**Appendix H**).

3.1.4 Storm Drain Inlet Protection

There are roadside ditches and culverts in the vicinity of the LOD. Adequate protective measures, including check dams will be installed as necessary for culverts, storm drains, and drainage ditches to ensure protection of existing resources. Additional options for sediment control in catch basins include sediment sack installation where the catch basin is subject to nearly level (<5% slope) drainage areas.

3.1.5 Additional Erosion and Sediment Controls

The erosion and sediment control drawings (**Appendix H**) illustrate the minimum erosion & sediment control practices for permitting compliance. During construction, additional areas will require new or reinforcement to existing BMPs. At a minimum, additional controls are to be added to areas that have or are causing a permit violation, show signs of moderate erosion or sedimentation, failing BMPs and at locations indicated in the weekly inspection reports.

3.1.6 Temporary Site Preparation for Seeding

The seedbed shall be scarified to a depth of three to four inches and shall be accomplished by disking or tracking equipment across the work area to be seeded.

Late season preparation (Nov 15 – April 1 per NYSDEC standards) shall apply agricultural-grade lime at a rate of one ton per acre (no lime or fertilizer shall be used in wetlands) and fertilize with commercial fertilizer (10-10-10 nitrogen-phosphorus-potassium (NPK)) at a rate of 150 lbs./acre.

3.1.7 Temporary Seeding

For temporary seeding during the spring through fall (April 2 through November 14), all disturbed cover within each work area (including soil stockpiles) shall be seeded with annual Ryegrass seed at a rate of 40 pounds per acre (or other applicable landowner approved alternative). Seeding during late fall or early winter (Nov 15 – April 1 per NYSDEC standards) shall be with winter rye at 170 pounds per acre. The seed shall be spread by broadcasting, drilling with a culti-pack type seeder, or hydro-seeding. Hand operated bag seeder spreading of temporary seed is acceptable, provided the appropriate coverage and non-clumping of seed is maintained.

3.1.8 Temporary Mulching

All disturbed cover within each work area (including soil stockpiles) shall be mulched after seed application. The mulch shall be weed-free straw mulch only. The application rate of straw mulch shall be two tons per acre. Winterization mulching shall be four tons per acre. As an alternative to straw mulch, flexible growth medium (fgm) or “hydromulch” may be used and applied at the specific manufacturers recommended application rates, with coverage to be similar to the 4 ton/acre straw mulch coverage. Hydromulch (fgm) shall not be applied in wetlands.

3.2 PERMANENT EROSION CONTROL MEASURES

3.2.1 Permanent Seeding and Stabilization of Disturbed Areas

Seeding shall be in accordance with the SWPPP report, ESC drawings, details, and specifications.

The seedbed shall be scarified to a depth of three to four inches. This shall be accomplished by disking or tracking equipment across the work area to be seeded. Small areas can be prepared by utilizing the teeth of an excavator to scarify small areas.

The seed shall be spread by seed drilling. Seed application rate shall be according to the manufacturer’s recommendations. Broadcasting or hydroseeding are also acceptable; provided the application rate is doubled.

All disturbed cover within each work area (including soil stockpiles) shall be mulched, after seed application. The mulch shall be straw mulch only (hay mulch not permissible). The application rate of straw mulch shall be three tons per acre. Mulch applied for winter seeding (Nov 15 – April 1 per NYSDEC standards) shall be at 4 tons per acre.

3.2.1.1 *Site Preparation*

The seedbed shall be scarified to a depth of three to four inches. This shall be accomplished by disking or tracking equipment across the work area to be seeded. Tracking shall be performed up and down grades, not across. Remove all stones over four-inch diameter, sticks, and foreign matter from the surface. Apply lime at a rate as recommended by soil testing results (No lime or fertilizer shall be used in wetlands). Fertilize with commercial fertilizer at a rate as recommended by soil testing.

3.2.1.2 *Permanent Seeding*

All disturbed areas (not under impervious cover) shall be covered with a permanent seed mixture, prior to completion of the project. The seed mix shall be as directed by Montante. A northeast roadside mix will be utilized in areas not requiring a specific project mixture.

The preferred seeding application is by culti-pack type seeder. Broadcast, hand spreading, or hydro seeding can be used in lieu of drilling at double the recommended seeding rates, or as directed by the Owner. Seed to be applied at the seeding rates listed below. Seed distributed by hydro-seeding shall be spread based on the application rate of the individual seed mixture.

3.2.1.3 *Permanent Mulching*

All disturbed cover within each work area shall be mulched, after seed application. The application rate of straw mulch (hay mulch not permissible) shall be 3 tons per acre. Mulch applied for winter seeding (Nov 15 – April 1 per NYSDEC standards) shall be at 4 tons per acre.

Mulch applied by hydro-seeding method shall be as follows: apply wood mulch at a rate of one ton per acre, Terra Tack AC (tackifier) at a rate of 120 pounds per acre and 6,000 gallons of water per acre. Alternate mixtures are to be applied at the manufacturer's recommendations. Avoid application during rain. A 24-hour curing period and a soil temperature higher than 45 degrees are required.

3.3 **OPERATION**

To ensure the stability and effectiveness of all protective measures and practice during and after construction, all erosion control measures implemented shall be in accordance with the construction sequence schedule, inspected and maintained in accordance with the SWPPP requirements.

4. Construction Sequence

The project Contractor shall prepare a construction sequence schedule in order to create the least amount of site disturbance, sediment loading, soil erosion, and to control the impact of stormwater runoff on the waters of New York. The project Contractor shall limit the area of disturbance to the minimum required to properly complete the associated task.

The project Contractor shall submit a project schedule, detailing the construction sequence proposed and place this in the on-site SWPPP or use the sample schedule (**Appendix M**). The completed Contractor provided schedule shall be added to the on-site SWPPP as **Appendix M** (Construction Sequence Scheduling Form). All submitted modified schedule updates shall replace the previously submitted schedule in **Appendix M**. The following provides a description of the anticipated construction activities as they pertain to erosion and sediment control. The Contractor submitted site specific schedule will supersede these anticipated general construction activities.

Construction of the project is expected to take 4 to 6 months to complete. Tree clearing will begin in Winter 2025 with general construction beginning in Spring 2026. Perimeter erosion and sedimentation controls as well as stabilized construction entrances are to be constructed before any construction activities begin. Tree clearing will begin after installation of perimeter erosion and sedimentation controls and the stabilized construction entrances. Grading activities including installation of the gravel diaphragm, equipment pad, utility poles, and electric lines will take place after tree clearing. Upon completion of preliminary grading activities the solar arrays and associated equipment will be installed. The pervious site entrance will be constructed during final site stabilization activities.

4.1 STEP 1: PRE-CONSTRUCTION ACTIONS

4.1.1 Resource Protection

Before construction begins, the Owner arranges for the environmental features, utility lines, and drainage structures to be located to prevent accidental damage during project construction. Surveyors then stake the necessary project features and the extent of the LOD limits.

Prior to construction, the project Contractor shall contact Xerox site personnel as well as Dig Safely New York (UFPO) at 1-800-962-7962 or 811, prior to initiating work. The project and/or site owners shall mark their utilities that may be impacted by the project.

4.1.2 Surface Water Protection

Identify bodies of water and locate existing culverts and drainage channels located either on site, along the proposed road crossings or in the general vicinity of the site. Plan the use of appropriate practices to protect on-site or downstream surface water with the use of diversion ditches, perimeter filter sock, riprap, and sediment traps. The Contractor shall review the project wetland mapping and the erosion and sediment control plan drawings (**Appendix H**) to provide protection for the site adjacent wetlands and waterbodies crossed and adjacent to the project.

4.1.3 Stabilized Construction Entrance

Two stabilized construction entrances are proposed for construction prior to commencement of other construction activities. The entrances will also need to be removed and the underlying areas restored to pre-construction conditions. If the permanent pervious driveway is installed during the initial phases of construction, all traffic must refrain from using the permanent pervious driveway and utilize the proposed construction entrances instead.

The contractor will be required to provide for a non-erosive measure to enter/exit the remaining construction work areas. These measures may include stabilized construction entrances, placing mats/plates, or utilizing rubber tracked equipment, if available. Removal of tracked material/debris and cleaning shall take place on the existing adjacent impervious roads immediately if material is tracked and poses a safety risk to workers, pedestrians, or vehicle travel.

4.1.4 Spill Pollution Prevention

Prior to importing materials of pollution concern, as outlined in the Pollution Prevention Measures section of this SWPPP and attached Preparedness, Prevention, and Contingency Plans (PPC) and Spill Prevention Response Plans (SPRP) (**Appendix J**), assure that all proper protection and containment for these items are on site. Fuel and oils are to be installed in double walled containment. Upon import of each possible pollutant material, protection and containment will be installed and material protected as appropriate.

4.1.5 Clearing and Brushing

Conduct tree clearing and brush removal as required for project access and proposed workspaces. Tree clearing is to be conducted using hand felling methods. Trees and brush from clearing and brushing are to be removed from the site as directed by the Owner. Stumps are to be cut flush to grade and remain in place.

Spotters will be utilized to locate survey placed limits of construction flagging and align clearing equipment to assure the construction equipment stays within the construction limits.

4.1.6 Perimeter Sediment Controls

Sediment barrier material, locations and installations are to comply with the site plans, standard details, and specifications. Install sediment barriers down grade of proposed ground disturbance activities. Sediment barriers should be placed on or parallel to contours where there is no concentration of water flowing to the barrier and in areas where erosion occurs in the form of sheet erosion. The area downgrade of the sediment barrier should be undisturbed ground.

4.2 STEP 2: CONSTRUCTION AND EROSION CONTROL (IN CONSTRUCTION SEQUENCE ORDER)

4.2.1 Construction and Earthwork

After installation of perimeter controls, stabilized construction entrance(s), and site clearing, construction and earthwork may begin. As construction and earthwork continue, soil stabilization practices are to be utilized as described below. Sediment controls (as described below), erosion control (Step 3 - as follows) and the required BMPs are to be utilized concurrently with the site earthwork.

Upon commencement of soil disturbance, daily visual inspections and SWPPP inspections (Step 4 - as follows) are to be conducted.

Proposed grading should not be performed as to impair existing surface drainage resulting in a potential erosion hazard impacting adjacent land or water bodies.

4.2.2 Sediment Control

Additional sediment barriers that have not been placed during the perimeter sediment control stage are to be placed as shown on the site plan drawings (**Appendix H**). Additional sediment controls shall be placed at locations where surface runoff from disturbed or graded areas has begun to erode or flow towards unprotected off site areas.

4.2.3 Topsoiling/Stockpiling

Generally, stockpiled topsoil will be located near the edges of construction workspaces. Topsoil is to be stockpiled within the edge of construction workspaces, as shown in **Appendix H**. Management of excavated soil will be determined by the process identified in Xerox's Soil Management Plan, under its site Management Plan, and as part of Part 373 RCRA Permit.

4.2.4 Construction of Solar Photovoltaic Arrays

The project will require tree clearing and brush removal to facilitate installation of the solar photovoltaic arrays. The arrays are to be mounted to geoballast foundations which require no soil disturbance or excavation for installation. The solar arrays will be installed using low ground pressure equipment to minimize soil disturbance. The power transmission cables from the solar arrays to the proposed equipment pad will be installed above ground.

4.2.5 Construction of Equipment Pad and Underground Electric Line

The equipment pad is proposed to be installed at the location shown and according to the details provided in the plans included as **Appendix H**. The underground electric line is proposed to be installed at the locations provided in the plans included as **Appendix H**. Soils excavated during construction of the equipment pad and underground electric line shall be handled according to the process identified in Xerox's Soil Management Plan, under its site Management Plan, and as part of Part 373 RCRA Permit.

4.3 STEP 3: EROSION CONTROL & STABILIZATION (IN CONSTRUCTION SEQUENCE ORDER)

4.3.1 Stabilization

Temporary or permanent stabilization will begin as necessary following completed clearing and provided that preliminary earthwork has ceased in an area and the stabilization period has begun. Stabilization is to be in accordance with Section 3 Erosion and Sediment Control Measures of this SWPPP Report.

Implement erosion control practices to keep the soil in place as the project construction progresses. Stabilization should be completed in accordance with this SWPPP. When activities in an area temporarily cease during construction, soil stockpiles and exposed soil should be stabilized by seed, mulch, or other appropriate measures as soon as possible. All disturbances shall be stabilized within 14

days of construction activity that is completed or has temporarily/permanently ceased within a section of the project.

4.4 STEP 4: MAINTENANCE AND INSPECTION

The Owner's Qualified Inspector SWPPP inspections will be required to start upon earth disturbance of the project utilizing practices described in Section 6.1.

4.5 STEP 5: FINALIZE GRADING & LANDSCAPING

In conjunction with the construction of the permanent well pad and access road, final grading and landscaping will be conducted, generally as follows:

- Final grading of each site area shall be stabilized once the construction is completed in that area.
- All open areas, including borrow and spoil areas must be stabilized.
- Permanent topsoil, seeding, sod, mulching, or other stabilization practices shall be installed in the remaining disturbed areas as appropriate.
- Stabilization must be undertaken no later than 14 days after construction activity has ceased.
- Disturbed areas are to be restored as close as possible to their original contours.
- Remove the temporary control measures upon complete stabilization (>80% revegetation) of the disturbed areas.

4.6 STEP 6: POST CONSTRUCTION CONTROLS

Post construction permanent stormwater management measures are required for the project, as there are solar panels proposed to be installed on continuous slopes $\geq 8\%$. Gravel diaphragms are proposed along the downgradient contour to return flow to overland sheet flow over vegetated filter strip. The open areas between the solar panel arrays are considered as the vegetated filter strip and should be maintained to be considered as "meadow in good condition." The gravel diaphragms should be maintained to prevent the buildup of sediments and debris which could cause the diaphragms to clog.

The proposed permanent pervious access road is intended for light traffic and site maintenance use only. The proposed permanent pervious access road should be inspected during maintenance events for buildup of debris or sediment and to ensure its proper function. The owner will conduct repairs and maintenance on the permanent pervious access road as necessary.

5. Pollution Prevention Measures

Montante has prepared a separate Spill Prevention and Response Procedures (SPRP) report that would be used in conjunction with this SWPPP report (see **Appendix J**). The following section contains the minimum pollution prevention measures to be practiced on this project site during the duration of coverage under the SPDES General Permit for Stormwater Discharges. The project Owner/Operator reserves the right to require additional pollution prevention measures to be observed during the SPDES coverage. Should the Owner prepare a SPRP, the Contractor and applicable Subcontractors shall be responsible for obtaining copies of that document from the Owner.

5.1 SPILL PREVENTION INVENTORY

The materials or substances below are anticipated to be present onsite during construction:

- Paints
- Fertilizers
- Petroleum-based products (Fuel for Equipment)

To Report a Petroleum or Chemical Spill, please call the **DEC 24 Hour Spill Hotline: 800.457.7362** (within New York State). All petroleum spills (other than those which are considered *de minimis* or meet specific criteria) that occur within New York State (NYS) must be reported to the NYS Spill Hotline within two hours of discovery.

5.2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that may be required to reduce the risk of spills or other accidental exposure of hazardous materials and substances to stormwater runoff:

1. Products shall be kept in original containers with the original manufacturer's label unless they are not re-sealable.
2. Original labels and material safety data sheets shall be retained, as they contain important product information.
3. Store only product quantities necessary to complete the job.
4. Chemicals, fuel, and oil shall be stored in common area at a location the designated by the Owner. All materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
5. Substances shall not be mixed with one another unless recommended by the manufacturer.
6. Whenever possible, products shall be used in their entirety before disposing of the container.
7. Whenever possible, manufacturer's recommendations for proper use and disposal of containers and any remaining contents shall be followed.
8. The site superintendent or designated staff shall perform daily inspections to ensure proper use and disposal of materials onsite.

5.3 SPILL CONTROL PRACTICES

A SPRP developed by the Owner would contain sections on Spill, Leak Prevention and Response and Emergency Response Program.

Emergency Spill Control Kits are to be available at the field office and will also be provided to each work crew working along the project.

Much of the spill control program will rely on thoroughly considered material location within a job site, daily inspection, and the care in handling potential contaminants. This will be reinforced with the construction inspectors during training specific to the project.

At least one staff per work crew shall have had hazardous material training. This training includes methods and procedures on leak prevention, containment, and removal of hazardous spills.

Spill potential will be evaluated at each site used on the project prior to occupancy with special attention to streams and wetlands. Provisions will be made to locate potential contaminants on site so as to minimize movement within and off site should a spill occur. Where large volumes of potential contaminants will be located on site, containment facilities will be constructed.

All materials must be properly labeled, including contents and the start date of accumulation. Allowable storage times of containers are determined by the amount of waste generated per month. Adequate supplies of absorbent materials compatible with potential contaminants will be available on site. Site inspections will occur at an appropriate frequency to determine the integrity of storage facilities, containment facilities, the contractors' adherence to requested handling procedures, and housekeeping.

In the event of a leak or spill the following steps would be taken:

1. Personnel would be mobilized to a leak or spill site and contain the spill by constructing a dike or emergency containment structure. Use of absorbent may also be necessary.
2. Contents of a leaking container would be removed and placed in another tank or appropriate holding container(s).
3. Soil showing obvious signs of contamination (from project-related spills only) will be excavated as necessary and as per requirements of the Xerox Site Management Plan.
4. Depending on the type and extent of spill, testing with a photo-ionization meter for additional soil contamination and excavation of any remaining contaminated soils will be performed.
5. If storage of contaminated soil is necessary; the soil shall be placed on an 8-mil plastic liner and covered with an 8-mil plastic liner.
6. The excavated area will be backfilled with clean soil.
7. Major spills will have soil samples taken and sent to a certified laboratory to ensure that all contamination has been removed.
8. Hauling of contaminated soils will be coordinated by Montante/Xerox but will typically be hauled by a standard triaxle (covered) or dump truck (covered) by the Contractor to a landfill authorized to take such material.
9. For contaminated soils identified as hazardous, arrangements will be made by Montante/Xerox and/or Contractor with a licensed hazardous waste hauler to transport the material to a registered landfill.

The site superintendent or designated staff shall be the cleanup coordinator and responsible for the day-to-day spill prevention.

5.4 PRODUCT SPECIFIC PRACTICES

The following product specific practices shall be followed onsite:

- **Petroleum Products** - All employees handling fuels and other hazardous materials shall be properly trained. All equipment shall be in good operating order and inspected on a regular basis. To the extent practical, equipment will be parked overnight and/or fueled at least 100-feet from a waterbody. Petroleum products shall be stored in tightly sealed containers and are to be stored in secondary containment structures. Any asphalt substances used onsite shall be applied according to the manufacturer's recommendations.
- **Fertilizers** - Fertilizers used shall be applied only in the amounts specified in the SWPPP, results by soil sampling or as specified by the Owner. Once applied, fertilizer shall be worked into the soil to limit exposure to stormwater. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.
- **Paints** - All containers shall be sealed and stored when not being used. Excess paint shall not be discharged on the ground or to any storm sewer system but shall be properly disposed of according to manufacturers' instructions or state and local regulations.
- **Waste Disposal** - All litter and construction debris shall be picked up from the work areas daily. Construction debris shall be placed in a dumpster or stockpiled until its removal from the project site. During construction, the Contractor shall make arrangements to remove any waste generated during the construction process. All construction waste shall be removed from the site and disposed in licensed facility. The Contractor shall devise a strategy or plan for handling wastes in an appropriate manner including waste characterization, hauling, manifesting, and disposal. The Site Superintendent or designated staff shall be responsible for seeing that these procedures are followed.
- **Hazardous Materials** - Hazardous materials, including chemicals, fuels, and lubricating oils, shall not be stored within 100-feet of a wetland or waterbody, unless the location is designated for such use by an appropriate governmental authority. Bulk storage of hazardous materials, including chemicals, fuels, and lubricating oils shall be contained within appropriate secondary containment systems to prevent spills. Operations shall be structured in such a manner that provides for the prompt and effective cleanup of spills of fuel and other hazardous materials. Each construction crew (including cleanup crews) shall have enough supplies of absorbent and barrier materials to allow the rapid containment and recovery of spilled materials and will follow the procedures for reporting spills and unanticipated discoveries of contamination. Each construction crew shall have enough tools and material to stop leaks. Site personnel shall be instructed in these practices. The Site Superintendent, the individual who manages day-to-day site operations, shall be responsible for seeing that these practices are followed.
- **Sanitary Waste** – The Contractor shall make arrangements for temporary sanitary facilities to be installed and maintained for the duration of the construction.
- **Recyclable Waste** – Miscellaneous materials (seed bags, wire, lumber, non-hazardous scrap) shall be separated and returned to storage containers at the staging area. These shall be recycled or disposed of at an approved landfill.

5.5 NON-STORMWATER DISCHARGES

Non-stormwater authorized discharges (by GP-0-25-001) containing sediment and other contaminants shall be treated.

5.6 PROTECTION OF STORMWATER OUTFALLS

All stormwater outfalls shall be protected with the appropriate erosion and control devices and installed in accordance with the New York Stormwater Management Design Manual. Specific consideration shall be taken to outfalls located downstream of construction material and chemical storage areas.

5.7 POST CONSTRUCTION CLEAN-UP

The site shall be cleaned of construction debris. Sediment barriers and other temporary erosion control practices shall be removed when soils are stabilized.

6. Maintenance & Inspection Procedures

6.1 INSPECTION AND MAINTENANCE PRACTICES

The Contractor shall conduct daily visual inspections of the erosion and sediment control practices and ensure that they meet the following requirements:

- The Contractor shall perform visual inspections to verify that all practices are adequately operational, maintained properly and that sediment is removed from all control structures.
- Visual inspections are to look for evidence of the soil erosion on the site, potential of pollutants entering drainage systems resulting from project construction activities, problems at discharge points (such as turbidity in receiving water) resulting from project construction activities, and signs of soil and mud transport from the site to the public road at the entrance resulting from construction traffic to and from the project site.
- Deficiencies identified through the visual inspections are to be addressed, repaired, or replaced as needed to restore to functioning condition. Maintenance issues are to be satisfactorily addressed in a timely manner. Routine maintenance will be performed as per the recommendations of the New York State Standards and Specifications for Erosion and Sediment Control.

The Owner will be responsible for hiring and/or obtaining the services of qualified personnel to conduct the SWPPP inspections. The inspections of the erosion and sediment control practices will meet the following requirements:

- Inspection forms shall be prepared to identify the type, number and frequency of maintenance actions required for stormwater management and erosion control during construction.
- Inspection and maintenance reports shall be generated once a week if less than five acres are disturbed. If greater than five acres are disturbed (per approved five-acre waiver, if acquired) a report shall be prepared twice per week, separated by two calendar days.
- All inspections shall verify that all practices are adequately operational, maintained properly and that sediment is removed from all control structures.
- All inspections shall look for evidence of the soil erosion on the site, potential of pollutants entering drainage systems, problems at discharge points (such as turbidity in receiving water), and signs of soil and mud transport from the site to the public road at the entrance as a result of project construction activities.
- All maintenance issues shall be brought to the attention of the project Contractor and satisfactorily addressed in a timely manner. Routine maintenance will be performed as per the recommendations of the New York State Standards and Specifications for Erosion and Sediment Control.
- Prior to the start of construction, the Owner must obtain the services of a qualified SWPPP inspector (as defined by the SPDES General Permit). The Inspector shall be responsible for conducting the maintenance inspections and reports during construction and post-construction.

- The Owner/Operator shall be responsible to make sure that the implementing and maintaining all erosion and sediment control during construction and post-construction are being addressed by the appropriate Contractor or Subcontractor.
- A copy of the inspection reports and the SWPPP shall be maintained on-site during the duration of the project, until the Electronic Notice of Termination has been filed. The SWPPP document, NYSDEC acknowledgment letter, and completed SWPPP inspection reports will be maintained by Montante for a period of no less than five years from the date the NYSDEC receives the completed eNOT for the project.
- All control measures shall be inspected at least once each week (twice a week, separated by two days, when prior approval of disturbance has been granted and is greater than five acres) or unless otherwise specified by the permit coverage authorization letter.
- All measures shall be maintained in good working order. If a repair is necessary, it shall be initiated within 24 hours of the report finalization (24 hours after the inspection) and completed within a reasonable time thereafter, generally 24 hours, but no longer than seven days.
- Built-up sediment shall be removed from sediment barriers, sediment basins, sediment traps and applicable BMPs, when it has reached 50% of the capacity of a practice.
- Filter sock shall be inspected for depth of sediment, tears, and to ensure anchoring posts are secure in the ground.
- Temporary and permanent seeding and planting shall be inspected for bare spots, washouts, and healthy growth.
- A SWPPP inspection and maintenance report shall be made after each inspection. A copy of the report form (suggested format including required inspection components) to be used and completed by the Qualified Inspector is attached as **Appendix L**. Inspection Reports shall be copied to the Contractor and Owner and shall be filed on site until final stabilization has been achieved and the project completed. The completed inspection reports will be placed with the full SWPPP Report on-site in a reasonably accessible location for compliance personnel, Owner, Contractor and Staff review.

6.2 SWPPP MODIFICATIONS

To be authorized to implement modifications to the information previously submitted in the eNOI, the Owner/Operator must:

- Notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and
- Update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and
- Receive an updated acknowledgement letter.

Appendix N contains a form to be submitted for required modifications to the SWPPP. Modifications to the eNOI must include:

- The revised area of disturbance and/or impervious area(s); and
- The revised post-construction Stormwater Management Practice (SMP) information, if applicable; and

- A narrative description of what has changed; and
- The new Owner/Operator Permit ID for the portion of the project removed from the eNOI.

7. Conclusions

Based on the preceding information, the following conclusions can be drawn with regards to the proposed construction project:

7.1 EROSION & SEDIMENT CONTROL

The proposed permanent and temporary devices, if properly installed, should mitigate the effects of erosion to the lands and sedimentation of the surrounding waterways and properties.

Any questions or comments regarding this report should be directed to Tom Robitaille (Haley & Aldrich of New York) at 585.321.4225.

https://haleyaldrich.sharepoint.com/sites/TMMontanteSolarDevelopmentLLC/Shared Documents/0205399.Montante Xerox Webster Solar/Deliverables/Stormwater/Montante Xerox SWPPP_D_20251009.docx

APPENDIX A
SPDES General Permit (GP-0-25-001)



Department of
Environmental
Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION (NYSDEC)

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP-0-25-001

Construction General Permit (CGP)

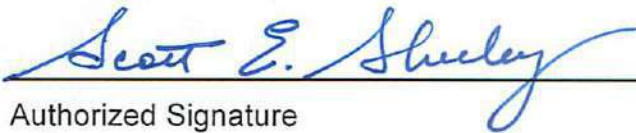
Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 29, 2025

Expiration Date: January 28, 2030

Scott E. Sheeley

Chief Permit Administrator



Authorized Signature

JAN. 29, 2025

Date

Address: NYSDEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act (CWA), and 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), *stormwater discharges* from certain *construction activities* are unlawful unless they are authorized by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, and Article 70, as well as 6 NYCRR Parts 621 and 750.

Construction activities constitute construction of a *point source* and, therefore, pursuant to ECL sections 17-0505, 17-0701, and 17-0803, the *owner or operator* must have coverage under a SPDES permit prior to *commencement of construction activities*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES CONSTRUCTION GENERAL PERMIT (CGP) GP-0-25-001
FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES**

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Part I. How to Obtain Coverage and General Requirements

To be covered under this permit, the *owner or operator* must meet all eligibility requirements in Part I.A. and follow the requirements for obtaining permit coverage in Part I.D., F., or G.

A. Eligibility Requirements

For a *common plan of development or sale*, the *phase(s)* that meet the eligibility requirements in Part I.A. may obtain coverage under this permit even if other *phase(s)* of the same *common plan of development or sale* do not meet the eligibility requirements and require an individual SPDES permit.

1. The *owner's or operator's construction activities* involve soil disturbances of:
 - a. one or more acres; or
 - b. less than one acre which are part of a *common plan of development or sale* that will ultimately disturb one or more acres; or
 - c. less than one acre where NYSDEC has determined that a SPDES permit is required for *stormwater discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of pollutants to *surface waters of the State*.
 - i. 5,000 square feet or more, but less than one acre, and are in the New York City Watershed located east of the Hudson River, Appendix C Figure 1; or
 - ii. 20,000 square feet or more, but less than one acre, within the municipal boundaries of the City of New York (NYC); or
 - iii. less than 20,000 square feet which are part of a *common plan of development or sale* that will ultimately disturb 20,000 square feet or more, but less than one acre, within the municipal boundaries of NYC; or
 - iv. that creates 5,000 square feet or more of *impervious area* within the municipal boundaries of NYC.

2. *Discharges from the owner's or operator's construction activities* are/were not:

- a. already covered by a different SPDES permit; or
- b. covered under a different SPDES permit that was denied, terminated, or revoked; or
- c. identified in an expired individual SPDES permit that was not renewed; or
- d. required to obtain an individual SPDES permit or another general SPDES permit in accordance with Part VII.K.

3. If *construction activities* may adversely affect a species that is endangered or threatened, the *owner or operator* must obtain a:

- a. permit issued pursuant to 6 NYCRR Part 182 for the project; or
- b. letter issued by NYSDEC of non-jurisdiction pursuant to 6 NYCRR Part 182 for the project.

4. If *construction activities* have the potential to affect an *historic property*, the *owner or operator* must obtain one of the following:

- a. documentation that the *construction activity* is not within an archeological buffer area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:
 - i. 1-5 acres of disturbance - 20 feet; or
 - ii. 5-20 acres of disturbance - 50 feet; or

- iii. 20+ acres of disturbance - 100 feet.
- b. NYSDEC consultation form sent to OPRHP,¹ and copied to NYSDEC's Agency Historic Preservation Officer (APO), and
 - i. the State Environmental Quality Review Act (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - ii. documentation from OPRHP that the *construction activity* will result in No Impact; or
 - iii. documentation from OPRHP providing a determination of No Adverse Impact; or
 - iv. a Letter of Resolution signed by the *owner or operator*, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA).
- c. documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:
 - i. No Affect; or
 - ii. No Adverse Affect; or
 - iii. Executed Memorandum of Agreement.
- d. documentation that SHPA Section 14.09 has been completed by NYSDEC or another state agency.
- 5. If *construction activities* are subject to SEQR, the *owner or operator* must obtain documentation that SEQR has been satisfied.
- 6. If *construction activities* are not subject to SEQR, but subject to the equivalent environmental review from another New York State or federal agency, the

¹ The consultation form can be submitted, along with other project information, through OPRHP's Cultural Resource Information System (CRIS) portal. If submitted through CRIS, paper copies of the consultation form need not be mailed.

Part I.A.6.

owner or operator must obtain documentation that project review, pursuant to a process equivalent to SEQR from another New York State or federal agency, has been satisfied.

7. If *construction activities* require Uniform Procedures Act (UPA) Permits (see 6 NYCRR Part 621) from NYSDEC, or the equivalent from another New York State or federal agency, the *owner or operator* must:
 - a. obtain all such necessary permits; or
 - b. receive notification from NYSDEC pursuant to 6 NYCRR 621.3(a)(4) excepting Part I.A.7.a.
8. *Construction activities* are not eligible if they meet the following criteria in Part I.A.8.a. or b.:
 - a. For linear transportation and linear utility project types, the *construction activities*:
 - i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and
 - ii. are undertaken on land with no existing *impervious cover*; and
 - iii. disturb two or more acres of *steep slope*.
 - b. For all other project types, the *construction activities*:
 - i. are within the watershed of *surface waters of the State* classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website; and
 - ii. are undertaken on land with no existing *impervious cover*; and
 - iii. disturb one or more acres of *steep slope*.

B. Types of *Discharges* Authorized

1. The following *stormwater discharges* are authorized under this permit:
 - a. *Stormwater discharges*, including *stormwater* runoff, snowmelt runoff, and surface runoff and drainage, associated with *construction activity*, are authorized under this permit provided that appropriate *stormwater* controls are designed, installed, and maintained in accordance with Part II. and Part III.
 - b. *Stormwater discharges* from construction support activities at the *construction site* (including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas) if the following requirements are met:
 - i. The support activity is directly related to the *construction site* required to have permit coverage for *stormwater discharges*; and
 - ii. The support activity is not a commercial operation, nor does it serve multiple unrelated *construction sites*; and
 - iii. The support activity does not continue to operate beyond the completion of the *construction activity* at the site it supports; and
 - iv. *Stormwater* controls are implemented in accordance with Part II. and Part III. for *discharges* from the support activity areas.
2. The following non-*stormwater discharges* associated with *construction activity* are authorized under this permit:
 - a. Non-*stormwater discharges* listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: “*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned”; and
 - b. Non-*stormwater discharges* of waters to which other components have not been added that are used in accordance with the *SWPPP* to control dust or irrigate vegetation in stabilized areas; and
 - c. Uncontaminated *discharges* from *dewatering* operations

3. Authorized *discharges of stormwater* or authorized *discharges* of non-*stormwater*, commingled with a *discharge* authorized by a different SPDES permit and/or a *discharge* that does not require SPDES permit authorization, are also authorized under this permit.

C. Prohibited *Discharges*

1. Non-*stormwater discharges* prohibited under this permit include but are not limited to:
 - a. Wastewater from washout of concrete; and
 - b. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials; and
 - c. Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance; and
 - d. Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and
 - e. Toxic or hazardous substances from a spill or other release.

D. Electronic Notice of Intent (eNOI) Submittal

To receive authorization in accordance with Part I.D.3.b., the *owner or operator* must submit a complete eNOI in accordance with the requirements in Part I.D. The eNOI contains questions to: ensure eligibility requirements in Part I.A. have been met; obtain *owner or operator* contact information; obtain the total area to be disturbed and the existing/future *impervious areas* (rounded to the nearest tenth of an acre); confirm *Traditional Land Use Control MS4 Operator* jurisdiction over construction projects; satisfy the EPA eRule requirements; confirm that the Water Quality-Based Effluent Limitations in Part II. have been met; demonstrate consideration of the future risks due to climate change in accordance with Part III.A.2.; and confirm that the other *Stormwater Pollution Prevention Plan (SWPPP)* requirements in Part III. have been met.

1. An eNOI may be submitted for:
 - a. *construction activities* that are not part of a *common plan of development or sale*; or

- b. an entire *common plan of development or sale*; or
 - c. separate *phase(s)* of a *common plan of development or sale* if the following requirements are met:
 - i. the *common plan of development or sale* meets the eligibility requirements of Part I.A.5. or 6.; and
 - ii. the *phase(s)* meet(s) all other eligibility requirements of Part I.A.; and
 - iii. Part III.C. Required *SWPPP* Components by Project Type is based on the *common plan of development or sale*, not the *phase(s)*; or
 - d. *tree clearing* that is associated with, or will support, a *renewable energy* generation, transmission, or storage project that meets Part I.A.5. and 6., if the *tree clearing*:
 - i. meets all other eligibility requirements of Part I.A.; and
 - ii. will occur in NYSDEC's Regions 3-9; and
 - iii. is not within ¼ mile of a bat hibernaculum protected pursuant to 6 NYCRR Part 182; and
 - iv. will occur between November 1st and March 31st.
2. As prerequisites for submitting an eNOI, the *owner or operator* must:
- a. prepare a *SWPPP* for Part I.D.1.a., b., c., or d. in accordance with Part III.; and
 - b. based on the following criteria, upload the following signature forms signed in accordance with Part VII.J. to the eNOI prior to submission:
 - i. for all eNOIs:
 - 1. the *SWPPP* Preparer Certification Form, Appendix F, signed by the *SWPPP* preparer; and

2. the Owner/Operator Certification Form, Appendix J, signed by the *owner or operator*; and
- ii. if an eNOI includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that will *discharge* to the *MS4(s)*:
 1. determine if the *Traditional Land Use Control MS4 Operator(s)* have review authority. A *Traditional Land Use Control MS4 Operator* does not have review authority where:
 - a. the *owner or operator* of the *construction activities* in Part I.D.2.b.ii. is the same entity as the *Traditional Land Use Control MS4 Operator* identified in Part I.D.2.b.ii.; or
 - b. there is a statute exempting the *owner or operator* from zoning review by the *Traditional Land Use Control MS4 Operator*; or
 - c. there is no such statute per Part I.D.2.b.ii.1.b., the *Traditional Land Use Control MS4 Operator* concludes, after public hearing, that it does not have zoning review authority in accordance with Legal Memorandum LU14 Updated January 2020 “Governmental Immunity from Zoning and Other Legislation”; and
 2. if the *Traditional Land Use Control MS4 Operator(s)* have review authority, submit the *SWPPP* to the *Traditional Land Use Control MS4 Operator(s)* for review and have:
 - a. if outside the municipal boundaries of NYC: the *MS4 SWPPP Acceptance Form*, Appendix G, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator*, or by a duly authorized representative of that person in accordance with Part VII.J.2.; or

- b. if within the municipal boundaries of NYC: The City of New York Department of Environmental Protection (NYCDEP) SWPPP Acceptance/Approval Form, Appendix H, signed by the principal executive officer or ranking elected official from the Traditional Land Use Control MS4 Operator, or by a duly authorized representative of that person in accordance with Part VII.J.2.; and
 - 3. if the *Traditional Land Use Control MS4 Operator* does not have review authority, have the MS4 No Jurisdiction Form, Appendix I, signed by the principal executive officer or ranking elected official from the *Traditional Land Use Control MS4 Operator*, or by a duly authorized representative of that person in accordance with Part VII.J.2.
3. Submitting an eNOI:
- a. The *owner or operator* must submit a complete Notice of Intent electronically using a NYSDEC approved form.²
 - b. The *owner or operator* is authorized to *commence construction activity* as of the authorization date indicated in the Letter of Authorization (LOA), which is sent by NYSDEC after a complete eNOI is submitted.
 - i. If an eNOI is received for a *SWPPP* that deviates from one of the technical standards but demonstrates *equivalence* in accordance with Part III.B.1.a.ii. or Part III.B.2.b.ii., if the *SWPPP* includes *construction activities* that are not within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)*, and/or if the *SWPPP* includes *construction activities* within the municipal boundary(ies) of *Traditional Land Use Control MS4 Operator(s)* that do not have review authority in accordance with Part I.D.2.b.ii.1., the authorization date indicated in the LOA will be 60 business days after the eNOI submission date.

² Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

- c. If *Traditional Land Use Control MS4 Operator(s)* have review authority in accordance with Part I.D.2.b.ii.2., the *owner or operator* must, within five business days of receipt of the LOA, send an electronic copy of the LOA to the *Traditional Land Use Control MS4 Operator(s)* with review authority.

E. General Requirements for Owners or Operators with Permit Coverage

1. As of the date the LOA is received, the *owner or operator* must make the eNOI, *SWPPP*, and LOA available for review and copying in accordance with the requirements in Part VII.H. When applicable, as of the date an updated LOA is received, the *owner or operator* must make the updated LOA available for review and copying in accordance with the requirements in Part VII.H.
2. The *owner or operator* must ensure compliance with all requirements of this permit and that the provisions of the *SWPPP*, including any changes made to the *SWPPP* in accordance with Part III.A.5., are properly implemented and maintained from the *commencement of construction activity* until:
 - a. all areas of disturbance have achieved *final stabilization*; and
 - b. the owner's or operator's coverage under this permit is terminated in accordance with Part V.A.5.a.
3. As of the date of the *commencement of construction activities* until Part I.E.2.a. and b. have been met, the *owner or operator* must maintain at the *construction site*, a copy of:
 - a. all documentation necessary to demonstrate eligibility with this permit; and
 - b. this permit; and
 - c. the *SWPPP*; and
 - d. the signed *SWPPP Preparer Certification Form*; and
 - e. the signed *MS4 SWPPP Acceptance Form* or signed *NYCDEP SWPPP Acceptance/Approval Form* or signed *MS4 No Jurisdiction Form* (when applicable); and
 - f. the signed *Owner/Operator Certification Form*; and

- g. the eNOI; and
 - h. the LOA; and
 - i. the LOA transmittal to the Traditional Land Use Control MS4 Operator in accordance with Part I.D.3.c. (when applicable).
4. The *owner or operator* must maintain at the *construction site*, until Part I.E.2.a. and b. have been met, as of the date the documents become final or are received, a copy of the:
- a. responsible contractor's or subcontractor's certification statement(s) in accordance with Part III.A.7.; and
 - b. inspection reports in accordance with Part IV.C.4. and 6.; and
 - c. Request to Disturb Greater Than Five Acres and the Authorization Letter to Disturb Greater Than Five Acres in accordance with Part I.E.6. (when applicable); and
 - d. Request to Continue Coverage and the Letter of Continued Coverage (LOCC) in accordance with Part I.F.2. and 4. (when applicable); and
 - e. The updated LOA(s) in accordance with Part I.E.9. (when applicable).
5. The *owner or operator* must maintain the documents in Part I.E.3. and 4. in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection. The documents must be paper documents unless electronic documents are accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be. If electronic documents are kept on site, the *owner or operator* must maintain functional equipment on site available to an inspector during normal hours of operation such that an inspector may view the electronic documents in a format that can be read in a similar manner as a paper record and in a legally dependable format with no less evidentiary value than their paper equivalent.
6. The *owner or operator* must meet the following requirements prior to disturbing greater than five acres of soil at any one time:
- a. The *owner or operator* must submit a written Request to Disturb Greater Than Five Acres to:

Part I.E.6.a.i.

- i. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, if a *Traditional Land Use Control MS4 Operator* does not have review authority in accordance with Part I.D.2.b.ii.1.; or
 - ii. the *Traditional Land Use Control MS4 Operator*, if a *Traditional Land Use Control MS4 Operator* has review authority in accordance with Part I.D.2.b.ii.1.; or
 - iii. NYSDEC's Regional Office Division of Water staff based on the project location, Appendix E, and each involved *Traditional Land Use Control MS4 Operator*, if the project spans multiple municipalities with more than one *Traditional Land Use Control MS4 Operator* involved with review authority in accordance with Part I.D.2.b.ii.1.
- b. The written Request to Disturb Greater Than Five Acres must include:
- i. The SPDES permit identification number (Permit ID); and
 - ii. Full technical justification demonstrating why alternative methods of construction that would result in five acres of soil disturbance or less at any one time are not feasible; and
 - iii. The phasing plan for the project and sequencing plans for all *phases* from the *SWPPP* in accordance with Part III.B.1.d.; and
 - iv. Plans with locations and details of erosion and sediment control practices such that the heightened concern for erosion when disturbing greater than five acres at one time has been addressed; and
 - v. Acknowledgment that "the *owner or operator* will comply with the requirements in Part IV.C.2.b."; and
 - vi. Acknowledgment that "the *owner or operator* will comply with the requirements in Part II.B.1.b."
- c. The *owner or operator* must be in receipt of an Authorization Letter to Disturb Greater Than Five Acres, which will include when the

authorization begins and ends and indicate a maximum area (acres) of soil disturbance allowed at any one time, from:

- i. NYSDEC, if Part I.E.6.a.i. or iii. apply; or
 - ii. the *Traditional Land Use Control MS4 Operator*, if Part I.E.6.a.ii. applies.
7. Upon a finding of significant non-compliance with the practices described in the *SWPPP* or violation of this permit, NYSDEC may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order must be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
8. If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE).³ *Construction activity* shall not resume until written permission to do so has been received from the RWE.
9. To be authorized to implement modifications to the information previously submitted in the eNOI, the *owner or operator* must:
 - a. notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and
 - b. update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and
 - c. receive an updated LOA.
10. The eNOI, *SWPPP*, LOA, updated LOAs (when applicable), and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

³ The Regional Water Manager where a DEC Region does not have a RWE.

F. Permit Coverage for *Discharges* Authorized Under GP-0-20-001

When applicable:

1. Upon the effective date of this permit, an *owner or operator* of a *construction activity*, with coverage under GP-0-20-001, will have interim coverage under GP-0-25-001 for 45 calendar days starting on the effective date of GP-0-25-001 so long as the *owner or operator* maintains compliance with all applicable requirements of this permit.
2. Within 30 calendar days of the effective date of this permit, the *owner or operator*, with coverage under GP-0-20-001, must submit a complete Request to Continue Coverage electronically using a NYSDEC approved form,⁴ which contains the information identified in Part I.F.3. below, if:
 - a. the *owner or operator* continues to implement the SMP component in conformance with the technical standards in place at the time of initial project authorization; and
 - b. the *owner or operator* will comply with all non-design requirements of GP-0-25-001.
3. The Request to Continue Coverage form contains questions to: ensure eligibility requirements in Part I.A. have been met; verify *owner or operator* contact information; verify the permit identification number; verify the original eNOI submission ID, if applicable; verify Part I.F.2.a. and b.; verify the version of the Design Manual that the technical/design components conform to; and receive an updated Owner/Operator Certification Form, Appendix I.
4. The *owner or operator* has obtained continued coverage under GP-0-25-001 as of the date indicated in the LOCC, which is sent by NYSDEC after a complete Request to Continue Coverage form is submitted.
5. If the owner or operator does not submit the Request to Continue Coverage form in accordance with Part I.F.2. and 3., coverage under this permit is automatically terminated after interim coverage expires.

⁴ Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

G. Change of *Owner or Operator*

When applicable:

1. When property ownership changes, or when there is a change in operational control over the construction plans and specifications, the following process applies:
 - a. The new *owner or operator* must meet the applicable prerequisites for submitting an eNOI in accordance with Part I.D.2.; and
 - b. The new *owner or operator* must submit an eNOI in accordance with Part I.D.3.; and
 - c. Permit coverage for the new *owner or operator* will be effective upon receipt of the LOA in accordance with Part I.D.3.b.; and
 - d. The new *owner or operator*, upon receipt of their LOA, must provide their Permit ID to the original *owner or operator*; and
 - e. If the original *owner or operator* will no longer be the *owner or operator* of the *construction activity* identified in the original *owner's or operator's* eNOI, the original *owner or operator*, upon receipt of the new *owner's or operator's* Permit ID in accordance with Part I.G.1.d., must submit to NYSDEC a completed eNOT in accordance with Part V. that includes the name and Permit ID of the new *owner or operator*; or
 - f. If the original *owner or operator* maintains ownership of a portion of the *construction activity*, the original *owner or operator* must maintain their coverage under the permit by modifying their eNOI; modifications to the eNOI must include:
 - i. the revised area of disturbance and/or *impervious area(s)*; and
 - ii. the revised SMP information, if applicable; and
 - iii. a narrative description of what has changed; and
 - iv. the new *owner's or operator's* Permit ID for the portion of the project removed from the eNOI.

Owners or operators must follow Part I.E.9. to modify the eNOI.

Part II. Water Quality-Based Effluent Limitations

A. Maintaining Water Quality

NYSDEC expects that compliance with the requirements of this permit will control *discharges* necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any *discharge* to either cause or contribute to a violation of the following *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York:

1. There must be no increase in turbidity that will cause a substantial visible contrast to natural conditions; and
2. There must be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There must be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the *stormwater discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standard*, the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this permit and document in accordance with Part IV.C.4. of this permit. To address the *water quality standard* violation the *owner or operator* must include and implement appropriate controls in the *SWPPP* to correct the problem or obtain an individual SPDES permit.

If, despite compliance with the requirements of this permit, it is demonstrated that the *stormwater discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if NYSDEC determines that a modification of this permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit, and the *owner or operator* must obtain an individual SPDES permit prior to further *discharges* from the *construction site*.

B. Effluent Limitations Applicable to *Discharges* from *Construction Activities*

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part II.B.1.a., b., c., d., and e. These limitations represent the

degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement, and maintain control measures to *minimize* the *discharge of pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part II.B.1.a., b., c., d., and e. and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (BB), dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in *SWPPP* the reason(s) for the deviation, or alternative design, and provide information in the *SWPPP* demonstrating that the deviation or alternative design is *equivalent* to the technical standard.

- a. **Erosion and Sediment Controls.** At a minimum, erosion and sediment controls must be selected, designed, installed, implemented, and maintained to:
 - i. *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*; and
 - ii. Control *stormwater discharges*, including both peak flow rates and total *stormwater* volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points; and
 - iii. *Minimize* the amount of soil exposed during *construction activity*; and
 - iv. *Minimize* the disturbance of *steep slope*; and
 - v. *Minimize* sediment *discharges* from the site; and
 - vi. Provide and maintain *natural buffers* around surface waters, direct *stormwater* to vegetated areas and maximize *stormwater* infiltration to reduce *pollutant discharges*, unless *infeasible*; and
 - vii. *Minimize* soil compaction. *Minimizing* soil compaction is not required

where the intended function of a specific area of the site dictates that it be compacted; and

- viii. Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
 - ix. *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of *pollutants* that could be discharged from the site.
- b. **Soil Stabilization.** In areas where soil disturbance activity has ceased, whether permanently or *temporarily ceased*, the application of soil stabilization measures must be initiated by the end of the next business day and completed within 14 calendar days from the date the current soil disturbance activity ceased. For *construction sites* that *directly discharge* to one of the 303(d) segments listed in Appendix D, or are located in one of the watersheds listed in Appendix C, or are authorized to disturb greater than five acres in accordance with Part I.E.5.a.viii., the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven calendar days from the date the soil disturbance activity ceased.
- c. **Dewatering.** *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures.** Select, design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge of pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be selected, designed, installed, implemented, and maintained to:
- i. *Minimize* the *discharge of pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. Soaps, detergents and solvents cannot be used; and
 - ii. *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation

and to *stormwater*. *Minimization* of exposure is not required in cases where the exposure to precipitation and to *stormwater* will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of *stormwater* contamination (such as final products and materials intended for outdoor use); and

- iii. Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. **Surface Outlets.** When discharging from basins and impoundments, the surface outlets must be designed, constructed, and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-Construction Stormwater Management Practice (SMP) Requirements

- 1. The *owner or operator* of a *construction activity* that requires post-construction SMPs, in accordance with Part III.C., must select, design, install, implement, and maintain the SMPs to meet the *performance criteria* in the New York State Stormwater Management Design Manual, dated July 31, 2024 (DM), using sound engineering judgment. Where SMPs are not designed in conformance with the *performance criteria* in the DM, the *owner or operator* must include in the *SWPPP* the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
- 2. The *owner or operator* of a *construction activity*, that requires SMPs in accordance with Part III.C., must design the practices to meet the applicable *sizing criteria* in Part II.C.2.a., b., c., or d.

a. Sizing Criteria for *New Development*

- i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):
 - 1. Reduce the total WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv must be calculated in accordance with the criteria in Section 4.2 of the DM; or

2. Minimum RRV and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the requirements in Part II.C.2.a.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRV capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRV capacity, the *SWPPP* must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRV as calculated using the criteria in Section 4.4 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

- ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:
 1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or
 2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs without detention or velocity controls; or
 3. The site *directly discharges* into a fifth order or larger water body (stream, river, or lake), or tidal waters, where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.

- iii. **Overbank Flood Control Criteria (Qp):** Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - 1. the site *directly discharges* to tidal waters or fifth order or larger streams, or
 - 2. A downstream analysis reveals that *overbank* control is not required.
- iv. **Extreme Flood Control Criteria (Qf):** Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - 1. the site *directly discharges* to tidal waters or fifth order or larger streams, or
 - 2. A downstream analysis reveals that *overbank* control is not required.

b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watersheds

- i. Runoff Reduction Volume (RRv) and Water Quality Volume (WQv):
 - 1. Reduce the WQv by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24-hour design storm over the post-developed watershed and must be calculated in accordance with the criteria in Section 4.3 of the DM; or
 - 2. Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part II.C.2.b.i.1. due to *site limitations* must direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv must be documented in the *SWPPP*. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the *SWPPP* must include

documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 4.5 of the DM. The remaining portion of the total WQv that cannot be reduced must be treated by application of standard SMPs.

- ii. Channel Protection Volume (CPv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event, remaining after runoff reduction. Where a CPv control orifice is provided, the minimum orifice size must be 3 inches, with acceptable external trash rack or orifice protection. The CPv requirement does not apply when:
 - 1. Reduction of the entire CPv is achieved by application of runoff reduction techniques or infiltration systems; or
 - 2. The 1-year post-development peak *discharge* is less than or equal to 2.0 cfs; or
 - 3. The site *directly discharges* to tidal waters, or a fifth order or larger water body (stream, river, or lake) where the increase in smaller flows will not impact the stream bank or channel integrity. However, the point of *discharge* must be adequately protected against scour and erosion by the increased peak *discharge*.
- iii. *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - 1. the site *directly discharges* to tidal waters or fifth order or larger streams; or
 - 2. A downstream analysis reveals that *overbank* control is not required.

- iv. Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - 1. the site *directly discharges* to tidal waters or fifth order or larger streams; or
 - 2. A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

- i. Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* must be addressed by one of the following options, as outlined in Section 9.2.1. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C) must calculate the WQv in accordance with Section 4.3 of the DM. All other *redevelopment activities* must calculate the WQv in accordance with Section 4.2 of the DM.
 - 1. Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the DM must be applied to all newly created pervious areas; or
 - 2. Capture and treat 100% of the required WQv, for a minimum of 25% of the disturbed redevelopment *impervious area*, by implementation of standard SMPs or reduced by application of runoff reduction techniques; or
 - 3. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a volume-based alternative SMP, as defined in Section 9.4 of the DM; or
 - 4. Capture and treat 100% of the required WQv, for a minimum of 75% of the disturbed redevelopment *impervious area*, by implementation of a flow-through alternative SMP sized to treat the peak rate of runoff from the WQv design storm; or

5. Application of a combination of 1 through 4 above that provide a weighted average of at least two of the above methods. Application of this method must be in accordance with the criteria in Section 9.2.1(A)(V) of the DM; or
 6. If there is an existing SMP located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 through 5 above.
- ii. Channel Protection Volume (CPv) is not required if there is 0% change to hydrology that increases the *discharge* rate and volume from the project site.
 - iii. *Overbank* Flood Control (Qp) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.
 - iv. Extreme Flood Control (Qf) is not required if there is 0% change to hydrology that increases the *discharge* rate from the project site.

d. *Sizing Criteria for Combination of Redevelopment Activity and New Development*

Construction projects, that include both *new development* and *redevelopment activity*, must use SMPs that meet the *sizing criteria* calculated as an aggregate of the *sizing criteria* in Part II.C.2.a. or b. for the *new development* portion of the project and Part II.C.2.c. for the *redevelopment activity* portion of the project.

Part III. Stormwater Pollution Prevention Plan (SWPPP)

A. General SWPPP Requirements

1. A SWPPP must be prepared and implemented by the *owner or operator* of all *construction activity* covered by this permit. All authorized *discharges* must be identified in the SWPPP. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and

- practices that will be used to meet the effluent limitations in Part II.B. and, where applicable, the SMP requirements in Part II.C.
2. The *SWPPP* must demonstrate consideration in narrative format of the future physical risks due to climate change pursuant to the Community Risk and Resiliency Act (CRRA), 6 NYCRR Part 490, and associated guidance.
 - a. The owner or operator must consider:
 - i. the following physical risks due to climate change:
 - (i) increasing temperature; and
 - (ii) increasing precipitation; and
 - (iii) increasing variability in precipitation, including chance of drought; and
 - (iv) increasing frequency and severity of flooding; and
 - (v) rising sea level; and
 - (vi) increasing storm surge; and
 - (vii) shifting ecology.
 - ii. for each of the following:
 - (i) overall site planning; and
 - (ii) location, elevation, and sizing of:
 - a. control measures and practices; and
 - b. conveyance system(s); and
 - c. detention system(s).
 3. The *SWPPP* must describe the erosion and sediment control practices and where required, SMPs that will be used and/or constructed to reduce the *pollutants* in *stormwater discharges* and to assure compliance with the

requirements of this permit. In addition, the *SWPPP* must identify potential sources of pollution which may reasonably be expected to affect the quality of *stormwater discharges*.

4. All *SWPPPs*, that require the SMP component in accordance with Part III.B.2., must be prepared by a *qualified professional*.
5. The *owner or operator* must keep the *SWPPP* current so that, at all times, it accurately documents the erosion and sediment control practices that are being used or will be used during construction, and all SMPs that will be constructed on the site. At a minimum, the *owner or operator* must modify the *SWPPP*, including construction drawings:
 - a. whenever the current provisions prove to be ineffective in *minimizing pollutants* in *stormwater discharges* from the site; and
 - b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge of pollutants*; and
 - c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, NYSDEC, or other regulatory authority; and
 - d. to document the final construction conditions in an as-built drawing.
6. NYSDEC may notify the *owner or operator* at any time that the *SWPPP* does not meet one or more of the minimum requirements of this permit. The notification must be in writing and identify the provisions of the *SWPPP* that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by NYSDEC, the *owner or operator* must make the required changes to the *SWPPP* and submit written notification to NYSDEC that the changes have been made. If the *owner or operator* does not respond to NYSDEC's comments in the specified time frame, NYSDEC may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4.
7. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the *SWPPP* and the

contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the *SWPPP*. The *owner or operator* must have each of the contractors and subcontractors identify at least one person from their company to be *trained contractor* that will be responsible for implementation of the *SWPPP*. The *owner or operator* must ensure that at least one *trained contractor* is on site daily when soil disturbance activities are being performed.

The *owner or operator* must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the *commencement of construction activities*:

"I hereby certify under penalty of law that I understand and agree to comply with the requirements of the *SWPPP* and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the *SWPPP* that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for *SWPPP* implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* must attach the certification statement(s) to the copy of the *SWPPP* that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the *SWPPP* after the *commencement of construction activities*, they must also sign the certification statement and provide the information listed above prior to performing *construction activities*.

B. Required *SWPPP* Contents

1. Erosion and sediment control component - The *owner or operator* must prepare a *SWPPP* that includes erosion and sediment control practices.
 - a. Erosion and sediment control practices must be designed:
 - i. in conformance with the BB; or
 - ii. *equivalent* to the BB if deviating from Part III.B.1.a.i.
 - b. If the erosion and sediment control practices are designed in conformance with Part III.B.1.a.ii., the *SWPPP* must include a demonstration of *equivalence* to the BB.
 - c. At a minimum, the erosion and sediment control component of the *SWPPP* must include the following:
 - i. Background information about the scope of the project, including the location, type and size of project; and
 - ii. A site map/construction drawing(s) with north arrows for the project, including a general location map. At a minimum, the site map must show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the *stormwater discharge(s)* and receiving surface water(s); and
 - iii. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG); and
 - iv. A phasing plan for the project and sequencing plans for all *phases*, both of which must address clearing and grubbing, excavation and grading, utility and infrastructure installation, *final stabilization*,

and any other *construction activity* at the site that will result in soil disturbance.

1. The phasing plan must include:
 - a. a map delineating and labeling the limits of soil disturbance for all *phases* of a project; and
 - b. a table identifying the order and intended schedule of when each *phase* will begin and end its sequencing plan. The table must identify the total disturbed area for each *phase* at any one time and the total disturbed area for the overall project at any one time all on one timeline showing all overlapping quantities of disturbed area at any one time; and
2. A sequencing plan for a specific *phase* must include:
 - a. a table indicating the order and intended schedule of *construction activities* within a *phase*, and corresponding construction drawings with a description of the work to be performed; and
 - b. all permanent and *temporary stabilization* measures; and
- v. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented; and
- vi. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice; and
- vii. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any

temporary sediment basins and structural practices that will be used to divert flows from exposed soils; and

- viii. A maintenance inspection schedule for the contractor(s) and subcontractor(s) identified in Part III.A.7. to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection schedule must be in accordance with the requirements in the BB technical standard; and
 - ix. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the *stormwater discharges*; and
 - x. A description and location of any *stormwater discharges* associated with industrial activity other than construction at the site, including, but not limited to, *stormwater discharges* from asphalt plants and concrete plants located on the *construction site*; and
 - xi. Identification of any elements of the design that are not in conformance with the design criteria in the BB technical standard. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. SMP component – The *owner or operator* of *construction activity* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs.
- a. SMPs must be designed in conformance with the applicable *sizing criteria* in Part II.C.2.a., c., or d.; and
 - b. SMPs must be designed in conformance with the *performance criteria*:
 - i. in the DM; or
 - ii. *equivalent* to the DM if deviating from Part III.B.2.b.i.; or
 - iii. in the New York State Stormwater Management Design Manual, dated January 2015 (2015 Design Manual), or *equivalent* to it, if the following criteria are met:

1. The eNOI is submitted in accordance with Part I.D. before January 29, 2027 for *construction activities* that are either:
 - a. subject to governmental review and approval:
 - i. where the *owner or operator* made any application to that governmental entity prior to the effective date of this permit; and
 - ii. such application included a *SWPPP* developed using the 2015 Design Manual or *equivalent* to it; or
 - b. not subject to governmental review and approval:
 - i. where a fiscal allocation for the *construction activities* has been developed and approved by a governmental entity; and
 - ii. the *SWPPP* was developed using the 2015 Design Manual or *equivalent* to it; and
 - c. If SMPs are designed in conformance with Part III.B.2.b.ii., the *SWPPP* must include the reason(s) for the deviation or alternative design and a demonstration of *equivalence* to the DM; and
 - d. If SMPs are designed in conformance with Part III.B.2.b.iii., the *SWPPP* must include supporting information or documentation demonstrating that Part III.B.2.b.iii.1.a. or b. apply; and
 - e. The SMP component of the *SWPPP* must include the following:
 - i. Identification of all SMPs to be constructed as part of the project, including which option the SMP designs conform to, either Part III.B.2.b.i., ii., or iii. Include the dimensions, material specifications and installation details for each SMP; and
 - ii. A site map/construction drawing(s) showing the specific location and size of each SMP; and

- iii. A Stormwater Modeling and Analysis Report that includes:
 - (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points; and
 - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and SMPs; and
 - (iii) Results of *stormwater* modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre- and post-development runoff rates and volumes for the different storm events; and
 - (iv) Summary table, with supporting calculations, which demonstrates that each SMP has been designed in conformance with the *sizing criteria* included in the DM; and
 - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part II.C.; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the DM. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the DM.
- iv. Soil testing results and locations (test pits, borings); and
- v. Infiltration test results, when required in accordance with Part III.B.2.a.; and
- vi. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each SMP. The plan must identify the entity

that will be responsible for the long-term operation and maintenance of each practice; and

3. Enhanced Phosphorus Removal Standards - The *owner or operator* of *construction activity* identified in Table 2 of Appendix B that is located in a watershed identified in Appendix C must prepare a *SWPPP* that includes SMPs designed in conformance with the applicable *sizing criteria* in Part II.C.2.b., c., or d. and the *performance criteria* Enhanced Phosphorus Removal Standards included in the DM. At a minimum, the SMP component of the *SWPPP* must meet the requirements of Part III.B.2.

C. Required *SWPPP* Components by Project Type

Owners or operators of *construction activities*, identified in Table 1 of Appendix B, are required to prepare a *SWPPP* that only includes erosion and sediment control practices designed in accordance with Part III.B.1. *Owners or operators* of the *construction activities*, identified in Table 2 of Appendix B, must prepare a *SWPPP* that also includes SMPs designed in accordance with Part III.B.2 or 3.

For the entire area of disturbance, including the entire *common plan of development or sale* if applicable, the owner or operator must evaluate every bullet from Appendix B Table 1 and Table 2 separately. If bullets from both Table 1 and Table 2 apply, the *SWPPP* must include erosion and sediment control practices for all *construction activities* but SMPs for only those portions of the *construction activities* that fall under Table 2 bullet(s).

Part IV. Inspection and Maintenance Requirements

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures), and all SMPs identified in the *SWPPP*, are inspected and maintained in accordance with Part IV.B. and C.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity*, identified in Tables 1 and 2 of Appendix B, must have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being

implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor must:

- a. if the corrective action does not require engineering design:
 - i. begin implementing corrective actions within one business day; and
 - ii. complete the corrective actions within five business days; or
 - b. if the corrective action requires engineering design:
 - i. begin the engineering design process within five business days; and
 - ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.
2. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. The *trained contractor* must begin conducting the maintenance inspections in accordance with Part IV.B.1. as soon as soil disturbance activities resume.
 3. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections in accordance with Part IV.B.1. if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational.

C. Qualified Inspector Inspection Requirements

1. With the exception of the following *construction activities* identified in Tables 1 and 2 of Appendix B, a *qualified inspector* must conduct site inspections for all other *construction activities* identified in Tables 1 and 2 of Appendix B:
 - a. the construction of a single-family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than or equal to five (5) acres and is

not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D; and

- b. the construction of a single-family home that involves soil disturbances of one (1) or more acres but less than or equal to five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D; and
 - c. construction on *agricultural property* that involves soil disturbances of one (1) or more acres but less than five (5) acres; and
 - d. *construction activities* located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances of 5,000 square feet or more, but less than one acre.
2. The *qualified inspector* must conduct site inspections in accordance with the following timetable:
- a. For *construction sites* where soil disturbance activities are on-going, the *qualified inspector* must conduct a site inspection at least once every seven (7) calendar days; or
 - b. For *construction sites* where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part I.E.6. to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days; or
 - c. For *construction sites* where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* must conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas under the jurisdiction of a *Traditional Land Use Control MS4 Operator*, the *Traditional Land Use Control MS4 Operator* (provided the *Traditional Land Use Control MS4 Operator* is not the *owner or operator* of the *construction activity*) by hard copy or email prior to reducing the inspections to this frequency and again by hard copy or email prior to re-commencing construction; or

- d. For *construction sites* where soil disturbance activities have been shut down with partial project completion, the requirement to have the *qualified inspector* conduct inspections ceases if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational. The *owner or operator* must notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix E) or, in areas subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1., the *Traditional Land Use Control MS4 Operator(s)* (provided the *Traditional Land Use Control MS4 Operator(s)* are not the *owners or operators* of the *construction activity*) in writing prior to the shutdown and again in writing prior to resuming *construction activity*. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* must terminate coverage by meeting the requirements of Part V; or
 - e. For *construction sites* involving soil disturbance of one (1) or more acres that *directly discharge* to one of the 303(d) segments listed in Appendix D or is located in one of the watersheds listed in Appendix C, the *qualified inspector* must conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections must be separated by a minimum of two (2) full calendar days.
3. At a minimum, the *qualified inspector* must inspect:
- a. all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness; and
 - b. all SMPs under construction to ensure that they are constructed in conformance with the *SWPPP*; and
 - c. all areas of disturbance that have not achieved *final stabilization*; and
 - d. all points of *discharge to surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site*; and
 - e. all points of *discharge* from the *construction site*.

4. The *qualified inspector* must prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report must include and/or address all of the following, for all *construction activities* except those listed in Part IV.C.1.:
 - a. Permit identification number; and
 - b. Date and time of inspection; and
 - c. Name and title of person(s) performing inspection; and
 - d. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection, including the temperature at the time of the inspection; and
 - e. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This must include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow; and
 - f. A description of the condition of all *surface waters of the State* located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This must include identification of any *discharges* of sediment to the *surface waters of the State*; and
 - g. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance; and
 - h. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced; and
 - i. Description and sketch (map) of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection; and
 - j. Estimates, in square feet or acres, of the following areas:

- i. Total area with active soil disturbance (not requiring either *temporary stabilization* or *final stabilization*); and
 - ii. Total area with inactive soil disturbance (requiring either *temporary stabilization* or *final stabilization*); and
 - iii. Total area that has achieved *temporary stabilization*; and
 - iv. Total area that has achieved *final stabilization*; and
- k. Current stage of construction of all SMPs and identification of all *construction activity* on site that is not in conformance with the *SWPPP* and technical standards; and
- l. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the SMP(s); and
- m. Identification and status of all corrective actions that were required by previous inspection; and
- n. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* must attach color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* must also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* must attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the *qualified inspector* must notify the *owner or operator*, and appropriate contractor or subcontractor identified in Part III.A.7., of any corrective actions that need to be taken. The contractor or subcontractor must:
- a. if the corrective action does not require engineering design:

- i. begin implementing corrective actions within one business day; and
 - ii. complete the corrective actions within five business days; or
 - b. if the corrective action requires engineering design:
 - i. begin the engineering design process within five business days; and
 - ii. complete the corrective action in a reasonable time frame but no later than within 60 calendar days.
6. All inspection reports must be signed by the *qualified inspector*. In accordance with Part I.E.3., the inspection reports must be maintained on site with the *SWPPP*.

Part V. How to Terminate CGP Coverage

A. Electronic Notice of Termination (eNOT) Submittal

The eNOT contains questions to ensure requirements in Part V.A. have been met.

1. An *owner or operator* must terminate coverage when one or more of the following requirements have been met:
 - a. Total project completion:
 - i. all *construction activity* identified in the *SWPPP* has been completed; and
 - ii. all areas of disturbance have achieved *final stabilization*; and
 - iii. all temporary, structural erosion and sediment control measures have been removed; and
 - iv. all SMPs have been constructed in conformance with the *SWPPP* and are operational; and
 - v. an as-built drawing has been prepared; or

- b. Planned shutdown with partial project completion:
 - i. all soil disturbance activities have ceased; and
 - ii. all areas disturbed as of the project shutdown date have achieved *final stabilization*; and
 - iii. all temporary, structural erosion and sediment control measures have been removed; and
 - iv. all SMPs required for the completed portion of the project have been constructed in conformance with the *SWPPP* and are operational; and
 - v. an as-built drawing has been prepared; or
 - c. In accordance with Part I.G. Change of Owner or Operator; or
 - d. The *owner or operator* has obtained coverage under an alternative general SPDES permit or an individual SPDES permit.
2. For *construction activities* that require *qualified inspector* inspections in accordance with Part IV.C.1. and have met Part V.A.1.a. or b., the *owner or operator* must have the *qualified inspector* perform a final site inspection prior to submitting the eNOT. The *qualified inspector* must, by signing the “Final Stabilization” and “Post-Construction Stormwater Management Practice(s)” certification statements on the eNOT, certify that all the requirements in Part V.A.1.a. or b. have been achieved.
3. For *construction activities* that are subject to the review authority of *Traditional Land Use Control MS4 Operator(s)* in accordance with Part I.D.2.b.ii.1. and meet Part V.A.1.a. or b., the *owner or operator* must have the *Traditional Land Use Control MS4 Operator(s)* sign the “MS4 Acceptance” statement on the eNOT in accordance with the requirements in Part VII.J. A *Traditional Land Use Control MS4 Operator* official, by signing this statement, determined that it is acceptable for the *owner or operator* to submit the eNOT in accordance with the requirements of this Part. A *Traditional Land Use Control MS4 Operator* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector’s* final site inspection certification(s) when required in Part V.A.2.

Part V.A.4.

4. For *construction activities* that require SMPs and meet Part V.A.1.a. or b., the *owner or operator* must, prior to submitting the eNOT, ensure one of the following:
 - a. for SMP(s) that were constructed by a private entity, but will be owned, operated, and maintained by a public entity, the SMP(s) and any right-of-way(s) needed to operate and maintain such practice(s) have been deeded to the municipality in which the practice(s) is located; or
 - b. for SMP(s) that are privately owned, but will be operated and maintained by a public entity, an executed operation and maintenance agreement is in place with the municipality that will operate and maintain the SMP(s); or
 - c. for SMP(s) that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record; or
 - d. for SMP(s) that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility, the *owner or operator* has policies and procedures in place that ensure operation and maintenance of the practices in accordance with the operation and maintenance plan.
5. An *owner or operator* that has met the requirements of Part V.A.1., 2., 3., and 4. must request termination of coverage under this permit by submitting a complete Notice of Termination form electronically using a NYSDEC approved form.⁵
 - a. The owner's or operator's coverage is terminated as of the termination date indicated in the Letter of Termination (LOT), which is sent by NYSDEC after a complete eNOT is submitted.

⁵ Unless NYSDEC grants a waiver in accordance with 40 CFR 127.15(c) or (d). All waiver requests must be submitted to Stormwater_info@dec.ny.gov or NYSDEC, Bureau of Water Permits, 625 Broadway, 4th Floor, Albany, New York 12233-3505.

Part VI. Record Retention and Reporting

A. Record Retention

The *owner or operator* must retain a copy of the documents listed in Part I.E.3. and a copy of the LOT for a period of at least five years from the date that NYSDEC accepts a complete NOT submitted in accordance with Part V.

B. Reporting

Except for the eNOI, the signature forms associated with the eNOI, and the eNOT, all other written correspondence requested by NYSDEC, including individual permit applications, must be sent to the address of the appropriate DOW (SPDES) Program contact at the Regional Office listed in Appendix E.

Part VII. Standard Permit Requirements

For the purposes of this permit, examples of contractors and subcontractors include: third-party maintenance and construction contractors.

A. Duty to Comply

The *owner or operator*, and all contractors or subcontractors, must comply with all requirements of this permit. Any non-compliance with the requirements of this permit constitutes a violation of the New York State Environmental Conservation Law (ECL), and its implementing regulations, and is grounds for enforcement action. Filing of a request for termination of coverage under this permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any requirements of this permit.

B. Need to Halt or Reduce Activity Not a Defense

The necessity to halt or reduce the *construction activity* regulated by this permit, in order to maintain compliance with the requirements of this permit, must not be a defense in an enforcement action.

C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the requirements of this permit. Fines of up to \$37,500 per day for each

violation and imprisonment for up to 15 years may be assessed depending upon the nature and degree of the offense.

D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished in accordance with ECL §71-1933 and or New York State Penal Law Articles 175 and 210.

E. Re-Opener Clause

Upon issuance of this permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified permit requirements will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the requirements of this permit notwithstanding, if operation pursuant to this permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if NYSDEC determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water quality standards* or compliance with other provisions of ECL Article 17 or the Clean Water Act (CWA), or any regulations adopted pursuant thereto, NYSDEC may require such modification and the Commissioner may require abatement action to be taken by the *owner or operator* and may also prohibit such operation until the modification has been implemented.

F. Duty to Mitigate

The *owner or operator*, and its contractors and subcontractors, must take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

G. Requiring Another General Permit or Individual SPDES Permit

NYSDEC may require any *owner or operator* authorized to *discharge* in accordance with this permit to apply for and obtain an individual SPDES permit or apply for authorization to *discharge* in accordance with another general SPDES permit.

1. Cases where an individual SPDES permit or authorization to discharge in accordance with another general SPDES permit may be required include, but is not limited to the following:

Part VII.G.1.a.

- a. the *owner or operator* is not in compliance with the conditions of this permit or does not meet the requirements for coverage under this permit; and
 - b. a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the *point source*; and
 - c. new effluent limitation guidelines or new source performance standards are promulgated that are applicable to *point sources* authorized to *discharge* in accordance with this permit; and
 - d. existing effluent limitation guidelines or new source performance standards that are applicable to *point sources* authorized to *discharge* in accordance with this permit are modified; and
 - e. a water quality management plan containing requirements applicable to such *point sources* is approved by NYSDEC; and
 - f. circumstances have changed since the time of the request to be covered so that the *owner or operator* is no longer appropriately controlled under this permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary; and
 - g. the *discharge* is in violation of section 17-0501 of the ECL; and
 - h. the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, NYSDEC may consider the following factors:
 - i. the location of the *discharge(s)* with respect to *surface waters of the State*; and
 - ii. the size of the *discharge(s)*; and
 - iii. the quantity and nature of the *pollutants discharged* to *surface waters of the State*; and
 - iv. other relevant factors including compliance with other provisions of ECL Article 17, or the CWA.
2. When NYSDEC requires any *owner or operator* authorized by this permit to apply for an individual SPDES permit as provided for in this subdivision, it must notify the *owner or operator* in writing that a permit application is required. This notice must include a brief statement of the reasons for this decision, an application

form, a statement setting a time for the *owner or operator* to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from the *owner's or operator's* receipt of the notification letter, whereby the authorization to *discharge* under this permit must be terminated. NYSDEC may grant additional time upon demonstration, to the satisfaction of the RWE,⁶ that additional time to apply for an alternative authorization is necessary or where NYSDEC has not provided a permit determination in accordance with 6 NYCRR Part 621.

3. When an individual SPDES permit is issued to an *owner or operator* authorized to *discharge* under this permit for the same *discharge(s)*, this permit authorization for *construction activities* authorized under the individual SPDES permit is automatically terminated on the effective date of the individual SPDES permit unless termination is earlier in accordance with 6 NYCRR Part 750.

H. Duty to Provide Information

The *owner or operator* must furnish to NYSDEC, within five business days, unless otherwise set forth by NYSDEC, any information that NYSDEC may request to determine whether cause exists to determine compliance with this permit or to determine whether cause exists for requiring an individual SPDES permit in accordance with 6 NYCRR 750-1.21(e) (see Part VII.G. Requiring Another General Permit or Individual Permit).

The *owner or operator* must make available to NYSDEC, for inspection and copying, or furnish to NYSDEC within 25 business days of receipt of a NYSDEC request for such information, any information retained in accordance with this permit.

Except for Part I.D.4. and 5. and Part I.G., the following applies: where the *owner or operator* becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to NYSDEC, the *owner or operator* must submit such facts or corrected information to NYSDEC within five business days.

I. Extension

In the event a new permit is not issued and effective prior to the expiration of this permit, and this permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the requirements of this permit until a new permit is issued and effective.

⁶ The Regional Water Manager where a DEC Region does not have a RWE.

J. Signatories and Certification

The Notice of Intent, Notice of Termination, and reports required by this permit must be signed as provided in 40 CFR §122.22.

1. All Notices of Intent and Notices of Termination must be signed as follows:

a. For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
- (ii) the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: NYSDEC does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). NYSDEC will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified NYSDEC to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.

b. For a partnership or sole proprietorship. By a general partner or the proprietor, respectively.

Part VII.J.1.c.

- c. For a municipality, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - 1. the chief executive officer of the agency; or
 - 2. a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- 2. All reports required by this permit, and other information requested by NYSDEC, must be signed by a person described in Part VII.J.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part VII.J.1. or using the Duly Authorized Form, found on the DEC website; and
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
 - c. The written authorization is submitted to NYSDEC.
- 3. Changes to authorization. If an authorization under Part VII.J.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the *construction activity*, a new authorization satisfying the requirements of Part VII.J.2. must be submitted to NYSDEC prior to or together with any reports, information, or applications to be signed by an authorized representative.
- 4. Certification. Any person signing a document under Part VII.J.1. or 2. must make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who

manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

5. Electronic reporting. If documents described in Part VII.J.1. or 2. are submitted electronically by or on behalf of the *construction activity* with coverage under this permit, any person providing the electronic signature for such documents must meet all relevant requirements of this section, and must ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

K. Inspection and Entry

The *owner or operator* must allow NYSDEC, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the *discharge*, upon the presentation of credentials and other documents as may be required by law, to:

1. enter upon the *owner's or operator's* premises where a regulated facility or activity is located or conducted or where records must be kept under the requirements of this permit; and
2. have access to and copy at reasonable times, any records that must be kept under the requirements of this permit, including records required to be maintained for purposes of operation and maintenance; and
3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
4. sample or monitor at reasonable times, for the purposes of assuring general SPDES permit compliance or as otherwise authorized by the CWA or ECL, any substances or parameters at any location; and
5. enter upon the property of any contributor to the regulated facility or activity under authority of the *owner or operator*.

L. Confidentiality of Information

The following must not be held confidential: this permit, the fact sheet for this permit, the name and address of any *owner or operator*, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general SPDES permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the *owner or operator*, NYSDEC must make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status must be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, NYSDEC will notify the Regional Administrator of the confidential status of such information.

M. Other Permits May Be Required

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

N. NYSDEC Orders or Civil Decrees/Judgments

The issuance of this permit by the NYSDEC, and the coverage under this permit by the *owner or operator*, does not supersede, revoke, or rescind any existing order on consent or civil Decree/Judgment, or modification to any such documents or to any order issued by the Commissioner, or any of the terms, conditions, or requirements contained in such order or modification therefore, unless expressly noted.

O. Property Rights

Coverage under this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

P. Compliance with Interstate Standards

If the *construction activity* covered by this permit originates within the jurisdiction of an interstate water pollution control agency, then the *construction activity* must also comply with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this permit for such *construction activities*.

Q. Oil and Hazardous Substance Liability

Coverage under this permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the *owner or operator* under section 311 of the CWA, which must be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the CWA to *discharges* from facilities with *NPDES* permits, nor must such issuance preclude the institution of any legal action or relieve the *owner or operator* from any responsibilities, liabilities, or penalties to which the *owner or operator* is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, must not be affected thereby.

S. NYSDEC Approved Forms

The *owner or operator* must provide all relevant information that is requested by NYSDEC, and required by this permit, on all NYSDEC approved forms.

APPENDIX A – Abbreviations and Definitions

Abbreviations

APO – Agency Preservation Officer
BB – New York State Standards and Specifications for Erosion and Sediment Control (Blue Book), dated November 2016
BMP – Best Management Practice
CPESC – Certified Professional in Erosion and Sediment Control
CPv – Channel Protection Volume
CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)
DM – New York State Stormwater Management Design Manual (Design Manual), dated July 31, 2024
DOW – Division of Water
EAF – Environmental Assessment Form
ECL – chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law
EPA – U.S. Environmental Protection Agency
HSG – Hydrologic Soil Group
MS4 – Municipal Separate Storm Sewer System
NOI – Notice of Intent
NOT – Notice of Termination
NPDES – National Pollutant Discharge Elimination System
NYC – The City of New York
NYCDEP – The City of New York Department of Environmental Protection
NYSDEC – The New York State Department of Environmental Conservation
OPRHP – Office of Parks, Recreation and Historic Places
Qf – Extreme Flood
Qp – Overbank Flood
RR – Runoff Reduction
RRv – Runoff Reduction Volume
RWE – Regional Water Engineer
SEQR – State Environmental Quality Review Act
SHPA – State Historic Preservation Act
SMP – Post-Construction Stormwater Management Practice
SPDES – State Pollutant Discharge Elimination System
SWPPP – Stormwater Pollution Prevention Plan
TMDL – Total Maximum Daily Load
UPA – Uniform Procedures Act
USDA – United States Department of Agriculture
WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not italicized in the permit, use its common definition.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023).

Alter Hydrology from Pre- to Post-Development Conditions – the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer System – a sewer system which conveys sewage and *stormwater* through a single pipe system to a publicly owned treatment works.

Commence (Commencement of) Construction Activities – the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the *SWPPP*. See definition for “*Construction Activity(ies)*” also.

Common Plan of Development or Sale – a contiguous area where multiple separate and distinct *construction activities* are occurring, or may occur, under one plan. The “common plan” of development or sale is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQR) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating *construction activities* may occur on a specific plot. A *common plan of development or sale* is comprised of two or more *phases*.

Common plan of development or sale does not include separate and distinct *construction activities* that are occurring, or may occur, under one plan that are at least 1/4 mile apart provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Construction Activity(ies) – identified within 40 CFR 122.26(b)(14)(x), 122.26(b)(15)(i), and 122.26(b)(15)(ii), any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, mechanized logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal.

Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, which is excluded from the calculation of the soil disturbance for a project. Routine maintenance includes, but is not limited to:

- Re-grading of gravel roads or parking lots; and
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of the ditch; and
- Replacement of existing culverts that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity of a ditch; and
- Replacement of existing bridges that maintains the approximate original line and grade, and maintains or improves the hydraulic capacity beneath the bridges; and
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch); and
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*; and
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material; and
- Long-term use of equipment storage areas at or near highway maintenance facilities; and
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*; and
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts; and
- Maintenance of ski trails including brush hog use and mowing; and
- Above ground snowmaking pipe replacement; and
- Replacement of existing utility poles; etc.

Construction Site – the land area where *construction activity(ies)* will occur. See also the definitions for “*Commence (Commencement of) Construction Activities*” and “*Common Plan of Development or Sale.*”

Dewatering – the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Directly Discharge(s)(ing) (to a specific surface waterbody) – runoff flows from a *construction site* by overland flow and the first point of *discharge* is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system and the first point of *discharge* from the separate storm sewer system is the specific surface waterbody.

Discharge(s)(d) – any addition of any *pollutant* to waters of the State through an outlet or *point source*.

Embankment – an earthen or rock slope that supports a road/highway.

Equivalent (Equivalence) – the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization – all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other *equivalent* stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

Historic Property – any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) – all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and compacted gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – not technologically possible, or not economically practicable and achievable considering best industry practices.

Minimize(ing)(ation) – reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges to surface waters of the State*; and
2. designed or used for collecting or conveying *stormwater*; and
3. which is not a *combined sewer system*; and
4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

Natural Buffer(s) – an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – any land disturbance that does not meet the definition of *Redevelopment Activity* included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

Nonpoint Source(s) – any source of water pollution or *pollutants* which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank – flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator – the person, persons, or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit requirements.

Performance Criteria – the six performance criteria for each group of SMPs in Chapters 5 and 6 of the technical standard, New York State Stormwater Management Design Manual (DM), dated July 31, 2024. These include feasibility, conveyance, pretreatment, treatment, landscaping, and maintenance. It does not include the *Sizing Criteria* (i.e. WQv, RRV, CPv, Qp and Qf) in Part I.C.2. of the permit.

Phase – a defined area in which *construction activities* are occurring or will occur separate from other defined area(s).

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be *discharged*.

Pollutant(s) – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector – a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder or other NYSDEC endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any SMPs that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional – a person that is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other NYSDEC endorsed individual(s). Individuals preparing *SWPPPs* that require the SMP component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the *SWPPP* that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – the disturbance and reconstruction of existing *impervious area*, including *impervious areas* that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Renewable Energy – electricity or thermal energy generated by renewable energy systems through use of the following technologies: solar thermal, photovoltaics, on land and offshore wind, hydroelectric, geothermal electric, geothermal ground source heat, tidal energy, wave energy, ocean thermal, and fuel cells which do not utilize a fossil fuel resource in the process of generating electricity.

Site Limitations – site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical *site limitations* include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of *site limitations* shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – the criteria included in Part I.C.2 of the permit that are used to size SMPs. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank Flood* (Qp), and Extreme Flood (Qf).

Steep Slope – land area designated on the current United States Department of Agriculture (USDA) Soil Survey as Soil Slope Phase D, (provided the map unit name or description is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Stormwater – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

Streambank – the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – a project specific report, including construction drawings, that among other things: describes the *construction activity(ies)*, identifies the potential sources of pollution at the *construction site*; describes and shows the *stormwater* controls that will be used to control the *pollutants* (i.e. erosion and sediment controls; for many projects, includes SMPs); and identifies procedures the *owner or operator* will implement to comply with the requirements of the permit. See Part III of the permit for a complete description of the information that must be included in the *SWPPP*.

Surface Waters of the State – shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization – exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Load (TMDL) – the sum of the allowable loads of a single *pollutant* from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a *pollutant* that a waterbody can receive and still meet *water quality standards*, and an allocation of that amount to the *pollutant's* sources. A TMDL stipulates Waste Load Allocations (WLA) for *point source discharges*, Load Allocations (LA) for *nonpoint sources*, and a margin of safety (MOS).

Traditional Land Use Control MS4 Operator – a city, town, or village with land use control authority that is authorized to *discharge* under New York State DEC's SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Trained Contractor – an employee from the contracting (construction) company, identified in Part III.A.7., that has received four (4) hours of NYSDEC endorsed training

in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.7., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, *New York State Erosion and Sediment Control Certificate Program* holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of NYSDEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other NYSDEC endorsed entity).

The *trained contractor* is responsible for the day-to-day implementation of the *SWPPP*.

Tree Clearing – *construction activities* limited to felling and removal of trees.

Tree clearing does not include hand felling and leaving the trees in place with no support from mechanized equipment, which is not considered *construction activity* requiring coverage under this permit.

Water Quality Standard – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP
THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities* that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single-family home not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions with 25% or less *impervious cover* at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix D
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that include construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.

The following *construction activities* that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

- All construction activities located in the New York City Watershed located east of the Hudson River, see Appendix C Figure 1, that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

Within the municipal boundaries of NYC:

- Stand-alone road reconstruction, where the total soil disturbance from only that road construction, is less than one (1) acre of land.

The following *construction activities*:

- Installation of underground linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation, *stormwater* retrofits, stream restoration, and resiliency projects that reconstruct shoreline areas to address sea level rise
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an *impervious cover*
- Cross-country ski trails, walking/hiking trails, and mountain biking trails, including a de minimis parking lot (maximum 10 spaces total, sized for passenger cars) with 35 feet minimum preservation of undisturbed area downgradient from the parking lot
- Dam rehabilitation (the structure of the dam itself)
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are not part of residential, commercial, or institutional development;
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path, or walking path.

Table 1 (Continued)
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP
THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following *construction activities*:

- Slope stabilization
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics
- Spoil areas that will be covered with vegetation
- Vegetated open space (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) that do not *alter hydrology from pre- to post-development* conditions
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions
- Demolition where vegetation will be established, and no *redevelopment activity* is planned¹
- Installation or replacement of either an overhead electric transmission line or a ski lift tower that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*.
- Solar array field areas that have tables elevated off the ground, spaced one table width apart, do not *alter hydrology from pre- to post-development conditions*, and address water quality volume and runoff reduction volume by maintaining sheet flow on slopes less than 8%.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that do not include construction or reconstruction of *impervious area* and do not *alter hydrology from pre- to post-development* conditions.
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary *impervious areas* that will be restored to pre-construction conditions once the *construction activity* is complete (in this context, “temporary” means the *impervious area* will be in place for two years or less)
- Other *construction activities* that do not include the construction or reconstruction of *impervious area*, and do not *alter hydrology from pre- to post-development* conditions, and are not listed in Table 2.

1. If the site is redeveloped in the future, a new eNOI must be submitted.

Table 2

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPs)

The following *construction activities*:

- Single-family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family home that disturbs five (5) or more acres of land
- Single-family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix D
- Single-family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of between 20,000 square feet and one (1) acre of land within the municipal boundaries of NYC with greater than 25% *impervious cover* at total site build-out
- Single-family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single-family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a *common plan of development or sale* that will ultimately disturb five (5) or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Creation of 5,000 square feet or more of *impervious area* in the municipal boundaries of NYC
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) that involves soil disturbance greater than five acres.
- Structural agricultural conservation practices as identified in Table II in the “Agricultural Best Management Practice Systems Catalogue” (dated June 2023) that involves soil disturbance greater than five acres and include the construction or reconstruction of *impervious area* or *alter hydrology from pre- to post-development* conditions.
- Facility buildings, including ski lodges, restroom buildings, pumphouses, ski lift terminals, and maintenance and groomer garages
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills; including creation of landfills or capping landfills.
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTWs, water treatment plants, and water storage tanks
- Golf courses
- Office complexes

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A *SWPPP* THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES (SMPs)

The following *construction activities*:

- Permanent laydown yards and equipment storage lots
- Playgrounds that include the construction or reconstruction of *impervious area*
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surfaces
- Road construction or reconstruction, outside the municipal boundaries of NYC
- Road construction within the municipal boundaries of NYC
- Stand-alone road reconstruction, within the municipal boundaries of NYC where the total soil disturbance from that road reconstruction involves soil disturbance of one (1) acre or more of land
- Parking lot construction or reconstruction (as with all Table 2 bullets, this includes parking lots constructed as part of the *construction activities* listed in Table 1, unless a Table 1 bullet specifies otherwise)
- Athletic fields (natural grass) that include the construction or reconstruction of *impervious area* (>5% of disturbed area) or *alter the hydrology from pre- to post-development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations, and well drilling pads, surfaced with *impervious cover*, and constructed as part of an overhead electric transmission line, wind-power, cell tower, oil or gas well drilling, sewer or water main, ski lift, or other linear utility project
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of a residential, commercial or institutional development
- Sidewalks, bike paths, or walking paths, surfaced with an *impervious cover*, that are part of highway construction or reconstruction
- Solar array field areas on slopes greater than 8% that cannot maintain sheet flow using management practices identified in the BB or the DM
- Solar array field areas on slopes less than 8% that will *alter the hydrology from pre- to post-development* conditions
- Solar array field areas with tables that are not elevated high enough to achieve *final stabilization* beneath the tables
- Traditional *impervious areas* associated with solar development (e.g. roads, buildings, transformers)
- Utility pads surfaced with *impervious cover*, including electric vehicle charging stations
- All other *construction activities* that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre- to post-development* conditions, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators of construction activities* identified in Table 2 of Appendix B must prepare a *SWPPP* that includes SMPs designed in conformance with the Enhanced Phosphorus Removal Standards included in the DM technical standard.

- Entire New York City Watershed located east of the Hudson River – Figure 1
- Onondaga Lake Watershed – Figure 2
- Greenwood Lake Watershed – Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

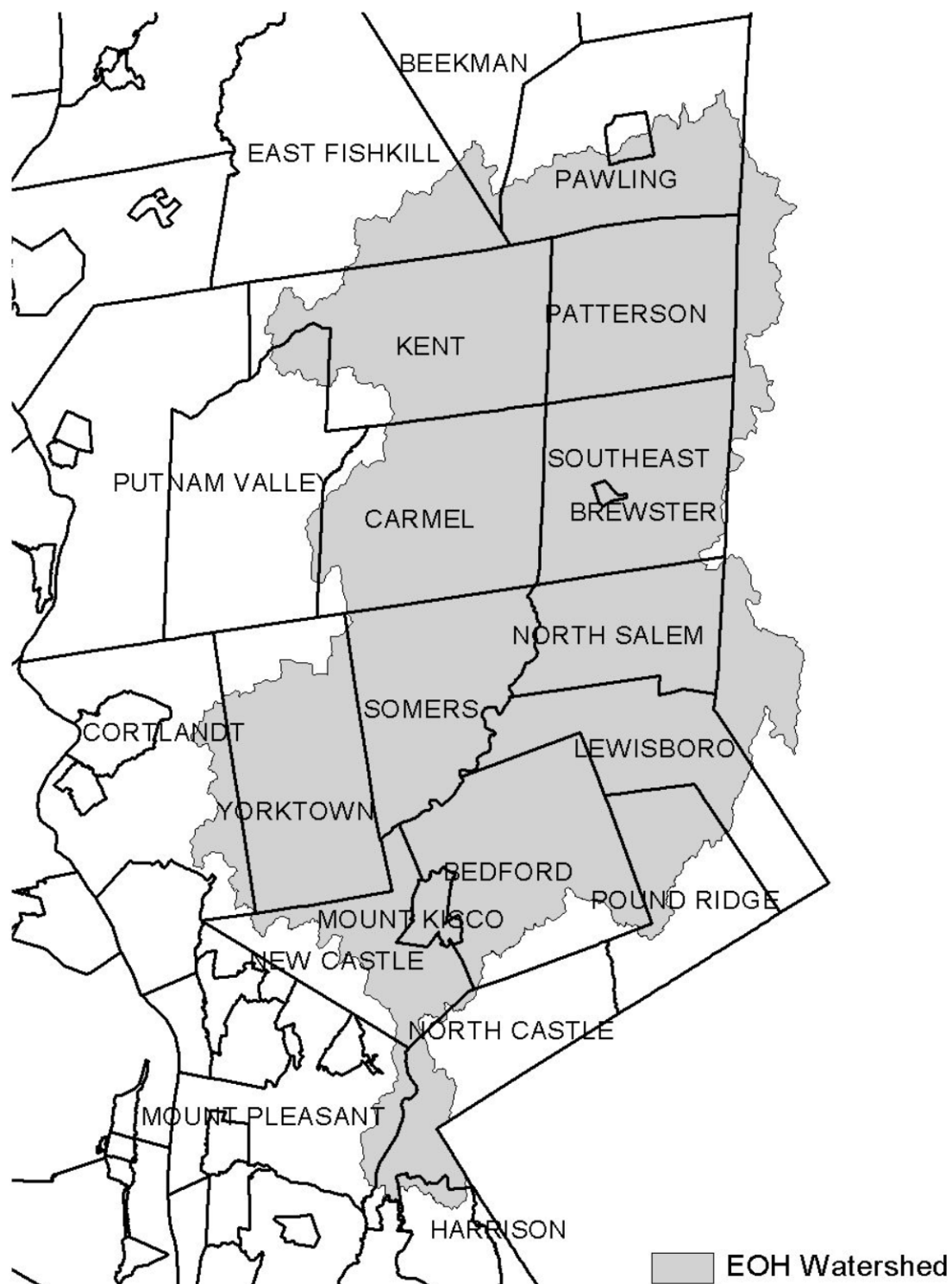


Figure 2 - Onondaga Lake Watershed



Figure 3 - Greenwood Lake Watershed

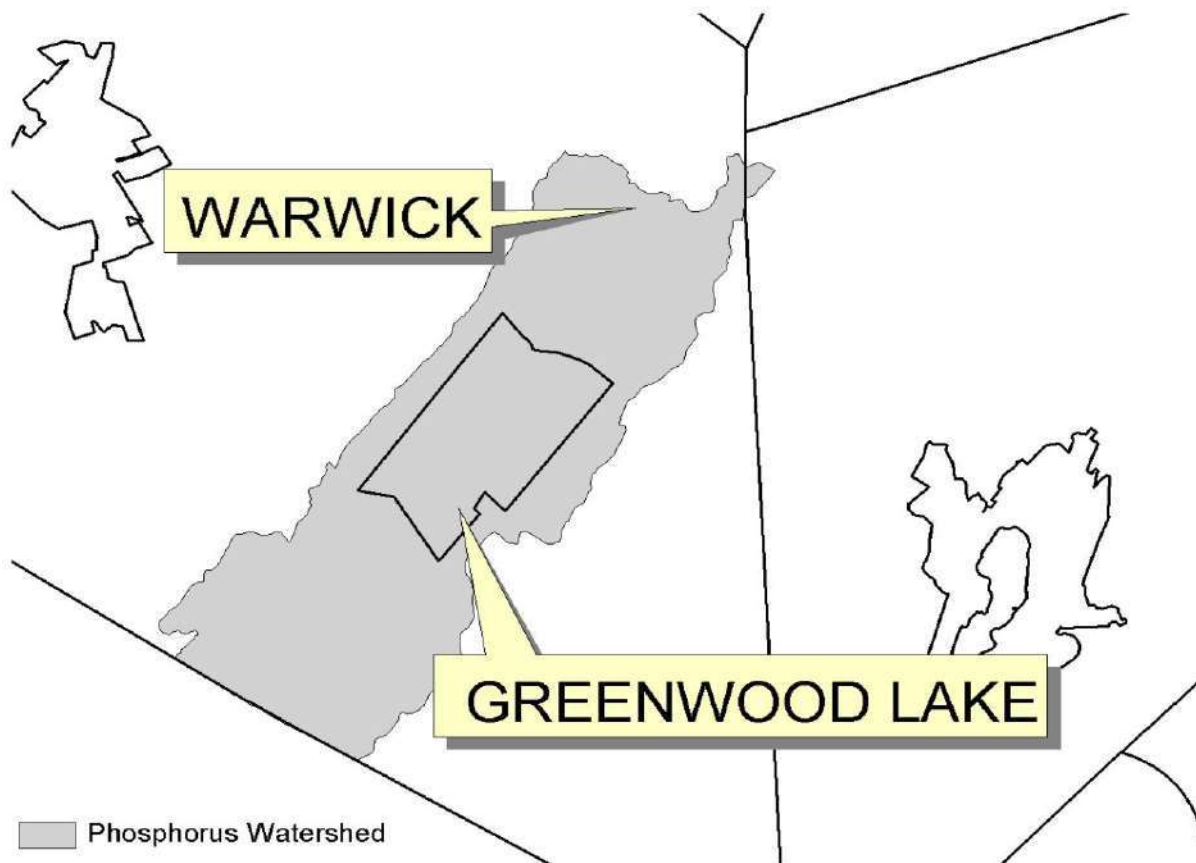


Figure 4 - Oscawana Lake Watershed

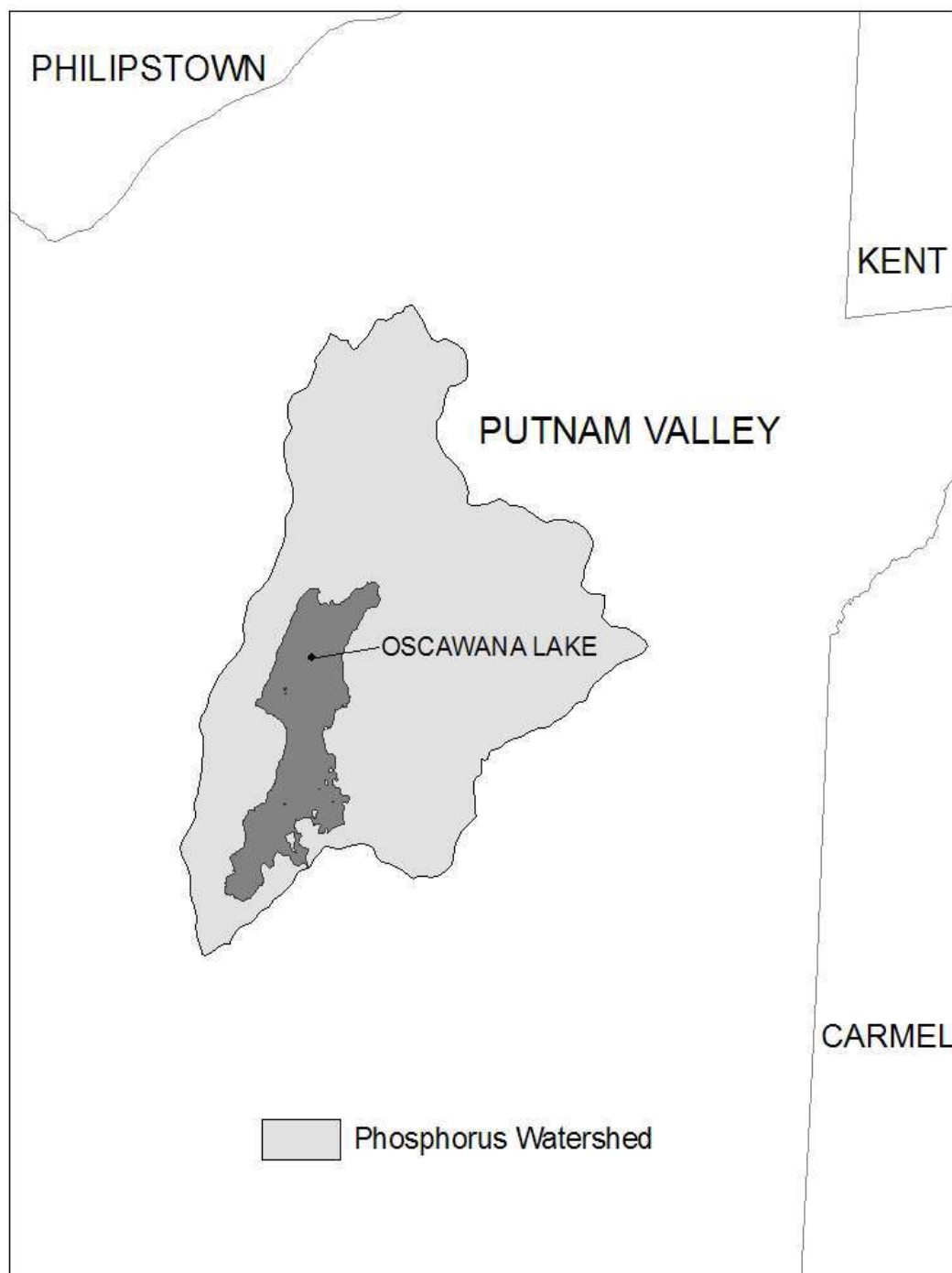
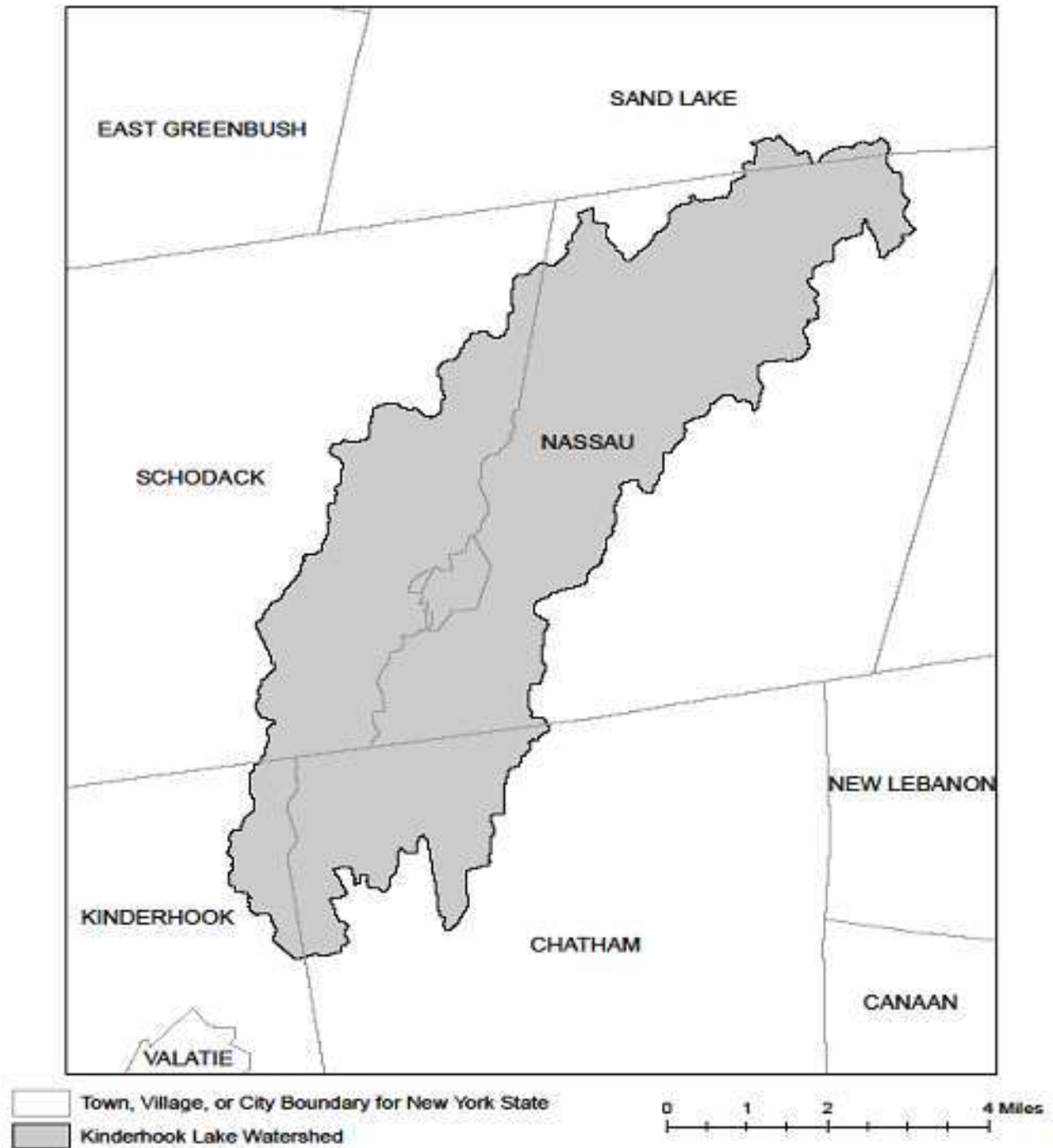


Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Impaired Waterbodies (by Construction Related Pollutants)

List of waterbodies impaired by *pollutants* related to *construction activity*, including turbidity, silt/sediment, and nutrients (e.g. nitrogen, phosphorus). This list is a subset of “The Final New York State 2018 Section 303(d) List of Impaired Waters Requiring a TMDL” dated June 2020.

County	Waterbody	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Albany	Lawsons Lake (1301-0235)	Phosphorus
Allegany	Amity Lake, Saunders Pond (0403-0054)	Phosphorus
Allegany	Andover Pond (0403-0056)	Phosphorus
Bronx	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Broome	Blueberry, Laurel Lakes (1404-0033)	Phosphorus
Broome	Fly Pond, Deer Lake (1404-0038)	Phosphorus
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Broome	Whitney Point Lake/Reservoir (0602-0004)	Phosphorus
Cattaraugus	Allegheny River/Reservoir (0201-0023)	Phosphorus
Cattaraugus	Beaver Lake/Alma Pond (0201-0073)	Phosphorus
Cattaraugus	Case Lake (0201-0020)	Phosphorus
Cattaraugus	Linlyco/Club Pond (0201-0035)	Phosphorus
Cayuga	Duck Lake (0704-0025)	Phosphorus
Cayuga	Owasco Inlet, Upper, and tribs (0706-0014)	Nutrients
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Hulburt/Clymer Pond (0202-0079)	Phosphorus
Chautauqua	Middle Cassadaga Lake (0202-0002)	Phosphorus
Clinton	Great Chazy River, Lower, Main Stem (1002-0001)	Silt/Sediment
Columbia	Robinson Pond (1308-0003)	Phosphorus
Cortland	Dean Pond (0602-0077)	Phosphorus
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Hillside Lake (1304-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Beeman Creek and tribs (0102-0030)	Phosphorus
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment
Erie	Green Lake (0101-0038)	Phosphorus
Erie	Little Sister Creek, Lower, and tribs (0104-0045)	Phosphorus
Erie	Murder Creek, Lower, and tribs (0102-0031)	Phosphorus

Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Bigelow Creek and tribs (0402-0016)	Phosphorus
Genesee	Black Creek, Middle, and minor tribs (0402-0028)	Phosphorus
Genesee	Black Creek, Upper, and minor tribs (0402-0048)	Phosphorus
Genesee	Bowen Brook and tribs (0102-0036)	Phosphorus
Genesee	LeRoy Reservoir (0402-0003)	Phosphorus
Genesee	Mill Pond (0402-0050)	Phosphorus
Genesee	Oak Orchard Cr, Upper, and tribs (0301-0014)	Phosphorus
Genesee	Oatka Creek, Middle, and minor tribs (0402-0031)	Phosphorus
Genesee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Greene	Schoharie Reservoir (1202-0012)	Silt/Sediment
Greene	Sleepy Hollow Lake (1301-0059)	Silt/Sediment
Herkimer	Steele Creek tribs (1201-0197)	Phosphorus
Herkimer	Steele Creek tribs (1201-0197)	Silt/Sediment
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Lewis	Mill Creek/South Branch, and tribs (0801-0200)	Nutrients
Livingston	Christie Creek and tribs (0402-0060)	Phosphorus
Livingston	Conesus Lake (0402-0004)	Phosphorus
Livingston	Mill Creek and minor tribs (0404-0011)	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs (0402-0033)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus
Monroe	Durand, Eastman Lakes (0302-0037)	Phosphorus
Monroe	Lake Ontario Shoreline, Western (0301-0069) 9	Phosphorus
Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Mill Creek and tribs (0302-0025)	Phosphorus 2
Monroe	Mill Creek/Blue Pond Outlet and tribs (0402-0049)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester Embayment - East (0302-0002) [9]	Phosphorus
Monroe	Rochester Embayment - West (0301-0068) 9	Phosphorus
Monroe	Shipbuilders Creek and tribs (0302-0026)	Phosphorus 2
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus

Nassau	Bannister Creek/Bay (1701-0380)	Nitrogen
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Browswere Bay (1701-0383)	Nitrogen
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Channel (1701-0381)	Nitrogen
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay, Broad Channel (1701-0032)	Nitrogen
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Hewlett Bay (1701-0382)	Nitrogen
Nassau	Hog Island Channel (1701-0220)	Nitrogen
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Reynolds Channel, East (1701-0215) [12]	Nitrogen
Nassau	Reynolds Channel, West (1701-0216) 12	Nitrogen
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tribs (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribs (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribs to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0053) 9	Phosphorus
Niagara	Lake Ontario Shoreline, Western (0301-0072) 9	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Onondaga	Ley Creek and tribs (0702-0001) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nutrients (phosphorus)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Nutrients (phosphorus)
Onondaga	Onondaga Creek, Lower, and tribs (0702-0023)	Turbidity
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004)	Turbidity
Onondaga	Onondaga Creek, Upper, and tribs (0702-0024)	Turbidity
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment

Ontario	Hemlock Lake Outlet and minor tribs (0402-0013)	Phosphorus
Ontario	Honeoye Lake (0402-0032)	Phosphorus
Orange	Brown Pond Reservoir (1303-0013)	Phosphorus
Orange	Lake Washington (1303-0012)	Phosphorus
Orange	Minor Tribs to Middle Wallkill (1306-0061)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Orange	Quaker Creek and tribs (1306-0025)	Phosphorus
Orange	Wallkill River, Middle, Main Stem (1306-0038)	Phosphorus
Orange	Wallkill River, Upper, and Minor tribs (1306-0017)	Phosphorus
Orleans	Glenwood Lake (0301-0041)	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0070) 9	Phosphorus
Orleans	Lake Ontario Shoreline, Western (0301-0071) 9	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Nutrients (phosphorus)
Oswego	Pleasant Lake (0703-0047)	Phosphorus
Putnam	Lost Lake, Putnam Lake (1302-0053)	Phosphorus
Putnam	Minor Tribs to Croton Falls Reservoir (1302-0001)	Phosphorus
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen
Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Rensselaer	Snyders Lake (1301-0043)	Phosphorus
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Round Lake (1101-0060)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady Lake	Mariaville Lake (1201-0113)	Phosphorus
Schuyler	Cayuta Lake (0603-0005)	Phosphorus

Seneca	Reeder Creek and tribs (0705-0074)	Phosphorus
St.Lawrence	Black Lake Outlet, Black Lake (0906-0001)	Phosphorus
St.Lawrence	Fish Creek and minor tribs (0906-0026)	Phosphorus
Steuben	Smith Pond (0502-0012)	Phosphorus
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Mattituck/Marratooka Pond (1701-0129)	Phosphorus
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Shinnecock Bay and Inlet (1701-0033)	Nitrogen
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Sullivan	Bodine, Montgomery Lakes (1401-0091)	Phosphorus
Sullivan	Davies Lake (1402-0047)	Phosphorus
Sullivan	Evens Lake (1402-0004)	Phosphorus
Sullivan	Pleasure Lake (1402-0055)	Phosphorus
Sullivan	Swan Lake (1401-0063)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Ulster	Ashokan Reservoir (1307-0004)	Silt/Sediment
Ulster	Esopus Creek, Lower, Main Stem (1307-0010) [17]	Turbidity
Ulster	Esopus Creek, Middle, Main Stem (1307-0003) 17	Turbidity
Ulster	Esopus Creek, Upper, and minor tribs (1307-0007)[3]	Silt/Sediment
Ulster	Wallkill River, Lower, Main Stem (1306-0027)	Phosphorus
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk.George Village (1006-0008)	Silt/Sediment

Washington	Wood Cr/Champlain Canal and tribs (1005-0036)	Phosphorus
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sediment
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

APPENDIX E – List of NYSDEC Regional Offices

<u>Region</u>	<u>COVERING THE FOLLOWING COUNTIES:</u>	<u>DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS</u>	<u>DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM</u>
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	220 WHITE PLAINS ROAD, SUITE 110 TEL. (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, Po Box 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7438	5786 WIDEWATERS PARKWAY SYRACUSE, NY 13214-1867 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7165	700 DELAWARE AVENUE BUFFALO, NY 14209-2999 TEL. (716) 851-7070

APPENDIX F – SWPPP Preparer Certification Form

The SWPPP Preparer Certification Form required by this permit begins on the following page.

APPENDIX B
Notice of Intent
MS4 Signature Forms
NYSDEC Acknowledgement Letter

Construction General Permit (CGP) Electronic Notice of Intent (eNOI) GP-0-25-001

version 1.11

(Submission #: HQF-NZHZ-QM45N, version 1)

Details

Originally Started By Thomas Robitaille
Alternate Identifier Webster Solar Garden LLC—Region 8
Submission ID HQF-NZHZ-QM45N
Status Draft
Active Steps Form Submitted

Form Input

Eligibility

Disturbance Threshold

1. Will the construction activity involve soil disturbances listed in Part I.A.1 of GP-0-25-001?

Yes

1.a. Will any runoff from the site enter a sewer system classified as a combined sewer?

No

1.b. Is this a remediation project being done under a Department approved work plan (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) with a SWPPP which meets the substantive requirements of GP-0-25-001?

No

1.c. Is the construction activity related to a stormwater discharge that does not require a permit as described in 40 CFR 122.3(e), e.g. non-point source agriculture or silviculture activities?

No

Other SPDES Permits

2. Will the discharge from the construction activity meet all conditions listed in Part I.A.2 of GP-0-25-001?

Yes

Threatened and Endangered Species

3. Will the construction activity potentially adversely affect a species that is endangered or threatened per Part I.A.3.?

No

State Historic Preservation Act (SHPA)

4. Is the construction activity designated by the Commissioner of the Office of Parks, Recreation and Historic Preservation (OPRHP), pursuant to 9 NYCRR §§428.12 or 428.13 as exempt from the SHPA review (see Attachment 2 of the Letter of Resolution between NYSDEC and OPRHP, dated January 9, 2015)?

No

4.a. Will the construction activity:

- a) occur within an archeologically sensitive area indicated on the sensitivity map, or
- b) have the potential to affect a property that is listed or determined to be eligible for listing on the National or State Registers of Historic Places, or
- c) include a new permanent building on the construction site within the following distances from a building, structure, or object that is more than 50 years old and OPRHP, a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined is a historically/archeologically significant building, structure, or object:
 - 1-5 acres of disturbance—20 feet
 - 5-20 acres of disturbance—50 feet
 - 20+ acres of disturbance—100 feet?

No

4.b. Is there documentation at the construction site demonstrating:

a) that the construction activity is not within an archeologically sensitive area indicated on the sensitivity map, and that the construction activity is not immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and

b) that there is no new permanent building to be built on the construction site within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the construction site within those parameters that OPRHP, a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant:

- 1-5 acres of disturbance – 20 feet
- 5-20 acres of disturbance – 50 feet
- 20+ acres of disturbance – 100 feet?

Yes

State Environmental Quality Review (SEQR)

5. Is the construction activity subject to SEQR (Part I.A.5.), or the equivalent environmental review from another NYS or federal agency (Part I.A.6.)?

Yes

5.a. Has the owner/operator obtained documentation that the project review pursuant to SEQR, or the equivalent, has been satisfied per Part I.A.5. or I.A.6. of GP-0-25-001?

Yes

Uniform Procedures Act (UPA) Permits

6. Has the owner/operator obtained all necessary UPA permits from NYSDEC, or the equivalent from another NYS or federal agency per Part I.A.7.a. of GP-0-25-001?

Yes

Steep Slope

7. Is the construction activity within the watershed of surface waters of the State classified as AA or AA-S identified utilizing the Stormwater Interactive Map on NYSDEC's website?

No

Owner/Operator Information

8. Owner/Operator Name

TM Montante Solar Development

9. Owner/Operator Contact Person Information

First and Last Name	Phone	E-mail
Katie Soscia	716.876.8899	KSoscia@montante.com

10. Owner/Operator Mailing Address

2760 Kenmore Avenue

Buffalo, NY 14150

USA

11. Is the billing contact different from the Owner/Operator Contact?

No

12. What type of organization is the owner/operator?

Corporation

12.b. Is the owner/operator registered with the Department of State to do business in New York State?

Yes

12.b.i. Department of State ID #

3958445

The Department of State ID can be found using the following link:

[Department of State | Division of Corporations](#)

Site Information

13. Project/Site Name

Webster Solar Garden LLC

14. Site Address

800 Phillips Road
Webster, NY 14580
Monroe

DEC Region

8

15. Site Latitude & Longitude

43.23411298498586,-77.41136864060059

Project Details**16. This eNOI submission is for:**

A construction activity not part of a common plan of development or sale in accordance with Part I.D.1.a.

17. Does the project type fall under Table 1 or Table 2 of Appendix B of GP-0-25-001? If any portion of the construction activity falls under Table 2, regardless of the size of the disturbance, select "Table 2".

Table 2

18. Consistent with Part III.B.1.c.i. of GP-0-25-001, provide a concise overview of the project. Describe existing and proposed conditions, and include any other relevant information.

Montante Solar Development, LLC (Montante) is proposing the installation of a new commercial-scale solar photovoltaic facility (Montante Xerox Solar Development) located within the Xerox Campus property. The Project is sited within a 17.5-Acre plot of land (limits of disturbance, LOD) and includes development for installation of solar panels and supporting infrastructure and will be surrounded by a perimeter fence with access gates in the northeast and southeast corners. A pervious site access drive as well as an equipment pad are proposed to be installed in the southeast corner of the site. The Project is proposed to be connected to the power grid via overhead electric line at the southeast corner of the Site. The general site location (Town of Webster, Monroe County, New York) is shown in Appendix E, Project Locus.

The overall planned site disturbance, including access, will be 17.5 acres (limits of disturbance boundary) or less. Soil disturbance will not exceed more than 5 acres at any one time. The Project is located within a Municipal Separate Storm Sewer System (MS4) area (Town of Webster – MS4 Additionally Designated Area – Criterion 3).

Enter the total project site acreage, the acreage to be disturbed, and the future impervious area (acreage) within the disturbed area, rounded to the nearest tenth of an acre.

19. Total Site Area (acres)

17.5

20. Total Area to be Disturbed (acres)

NONE PROVIDED

21. Existing Impervious Area to be Disturbed (acres)

NONE PROVIDED

22. Future Impervious Area Within Disturbed Area (acres)

NONE PROVIDED

Nature of the project:

NONE PROVIDED

23. Do you plan to disturb more than 5 acres of soil at any one time?

No

24. Indicate the percentage (%) of each Hydrologic Soil Group(HSG) at the site.

A (%)

22

B (%)

9

C (%)

64

D (%)

5

25. Enter the planned start and end dates of the disturbance activities.

Start Date

12/01/2025

End Date

12/01/2026

26. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

approximately 60 feet west of the project (Class C unnamed tributary to Fourmile Creek)

27. Type of waterbody identified in question 26?

Stream/Creek Off Site

Wetland/Federal Jurisdiction On Site

Wetland/Federal Jurisdiction Off Site

28. Has the surface waterbody in question 26 been identified as a 303(d) segment in Appendix D of GP-0-25-001?

No

29. Is this project located in one of the Watersheds identified in Appendix C of GP-0-25-001?

No

30. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area?

No

31. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?

Yes

31.a. What is the name of the municipality/entity that owns the separate storm sewer system? If the separate sewer system is owned by an MS4 Operator, enter the MS4 Operator name.

Town of Webster

32. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law?

No

33. Is this property owned by a state authority, state agency, federal government or local government?

No

Required SWPPP Components**General SWPPP Requirements**

34. Has a SWPPP been developed in conformance with the requirements in Part III. of GP-0-25-001?

Yes

35. Does the SWPPP demonstrate consideration of the future physical risks due to climate change pursuant to the CRRA, 6 NYCRR Part 490, and associated guidance per Part III.A.2. of GP-0-25-001?

Yes

36. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)?

Yes

37. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the NYS Stormwater Management Design Manual?

Yes

37.a. Which version of the NYS Stormwater Management Design Manual was used to develop the SWPPP?

2024

SWPPP Preparer

39. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

Professional Engineer (P.E.)

40. Name of the person who prepared the SWPPP

Mr. Nicholas Davis

41. SWPPP Preparer Organization Name

H & A of New York Engineering and Geology, LLP

42. SWPPP Preparer Contact Information

First and Last Name	Phone	E-mail
Nicholas Davis	864-214-8757	NDavis@haleyaldrich.com

43. SWPPP Preparer Address

400 Augusta Street, Ste. 100

Greenville, SC 29601

Download SWPPP Preparer Certification Form

Please take the following steps to prepare and upload your preparer certification form:

1) Click on the link below to download a blank certification form

- 2) The certified SWPPP preparer should sign this form
3) Upload the completed form
[Download SWPPP Preparer Certification Form](#)

44. Please upload the SWPPP Preparer Certification

NONE PROVIDED

Comment

NONE PROVIDED

44.a. Has the SWPPP Preparer Certification Form been signed by the SWPPP preparer in accordance with Part VII.J of GP-0-25-001?

Yes

Erosion & Sediment Control Criteria

45. Has a construction sequence schedule for the planned management practices been prepared?

Yes

Post-Construction Criteria

Site Planning and Soil Restoration

46. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

Preservation of Undisturbed Area

Preservation of Buffers

Reduction of Clearing and Grading

47. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6 ("Soil Restoration") of the Design Manual.

All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).

Water Quality Criteria

49. Water Quality Sizing Criteria

Total WQv required (acre-feet)	Total RRv provided (acre-feet)	Minimum RRv (acre- feet)	Total WQv provided (acre-feet)	Sum of RRv and WQv provided
0.42	0.21	0.21	0.42	0.63

Water Quantity Criteria

Operation and Maintenance

53. Has a long-term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed?

Yes

53.a. Identify the entity responsible for the long-term Operation and Maintenance.

TM Montante Solar Development LLC

Post-Construction SMP Identification

54. Post-Construction RR Techniques and Standard SMPs

RR Techniques and SMPs	Contributing Impervious Area (acres)	Total Contributing Area (acres)
Sheet Flow to Riparian Buffers or Filter Strips (RR-2)	4.820	4.820

55. Alternative SMPs

Type of Alternative SMP	Manufacturer of the Alternative SMP	Name of the Alternative SMP	Contributing Impervious Area (acres)
NONE PROVIDED	NONE PROVIDED	NONE PROVIDED	NONE PROVIDED

Other Permits

56. Identify other permits, existing and new, that are required for this project/facility.

Water Quality Certificate

USACE Wetland Permit

Other: RCRA Change In Use - NYSDEC

56.a. Indicate the Size of Impact from the USACE Wetland Permit, in acres, to the nearest tenth.

0.1

57. Is this NOI for a change in owner/operator per Part I.G.?

No

MS4 SWPPP Acceptance

59. Will the construction activities be within the municipal boundary(ies) of Traditional Land Use Control MS4 Operator(s) and discharge to the MS4(s)?

Yes

59.a. Which form is required per Part I.D.2.b.ii.?

MS4 SWPPP Acceptance Form

MS4 SWPPP Acceptance Form Download

Download the MS4 SWPPP Acceptance Form from the link below.

[MS4 SWPPP Acceptance Form](#)

60. MS4 Acceptance or No Jurisdiction Form Upload

NONE PROVIDED

Comment

NONE PROVIDED

60.a. Has the form been signed by the principal executive officer or ranking elected official—or duly authorized representative of that person—in accordance with Part VII.J. and submitted along with this NOI?

Yes

Owner/Operator Certification

Owner/Operator Certification Form Download

Download the Owner/Operator Certification Form by clicking the link below.

[Owner/Operator Certification Form](#)

61. Upload Owner/Operator Certification Form

NONE PROVIDED

Comment

NONE PROVIDED

61.a. Has the Owner/Operator Certification Form from Appendix J been signed by the owner/operator, or a representative of the owner/operator in accordance with Part VII.J of GP-0-25-001 and uploaded to the eNOI?

Yes

Additional Project Information

62. Enter any additional pertinent project information in the text box below.

The Project would be located within the larger Xerox Webster campus, which is a NYSDEC RCRA Facility (Site Code 828178) for identified groundwater and soil contamination currently managed under a RCRA Part 373 Hazardous Waste Management Permit (No. 8-2654-00064/00040). The Project is being reviewed by DEC with respect to the proposed change in use. This project has been designed in accordance with 2025 guidance from DEC for development of solar projects with respect to the SPDES permit.

Status History

	User	Processing Status
9/17/2025 11:11:38 AM	Thomas Robitaille	Draft

Processing Steps

Step Name	Assigned To/Completed By	Date Completed
Form Submitted		
Issue SPDES Permit ID	Daniel von Schilgen	



Department of
Environmental
Conservation

MS4 SWPPP Acceptance Form

for construction activities seeking authorization under the

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

I. Project Owner/Operator Information

1. Owner/Operator Name:

2. Contact Person:

3. Street Address:

4. City/State/Zip:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/State/Zip:

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information

8. SWPPP Reviewed by:

9. Title/Position:

10. Date Final SWPPP Reviewed and Accepted:

IV. Regulated MS4 Information

11. Name of MS4 Operator:

12. MS4 SPDES Permit Identification Number: NYR20A

13. Street Address:

14. City/State/Zip:

15. Telephone Number:

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in section II. of this form has been reviewed and meets the substantive requirements in the SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP). Note: The MS4 Operator, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 Operator does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name¹:

Title/Position:

Signature:

Date:

VI. Additional Information

¹ Printed name of the principal executive officer or ranking elected official for the MS4 Operator or their duly authorized representative in accordance with CGP Part VII.J.2.

APPENDIX C
Owner/Operator Certification Form
SWPPP Preparer Certification Form



Owner/Operator Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b. or Part I.F.2. and 3., the completed form must be attached to the eNOI or the Request to Continue Coverage, and submitted to NYSDEC electronically.)

Project/Site Name: Webster Solar Garden LLC

eNOI Submission ID: HQF-NZHZ-QM45N

eNOI Submitted by: ☐ Owner/Operator ☒ SWPPP Preparer ☐ Other

Certification Statement - Owner/Operator

I hereby certify that I read, and will comply with, the GP-0-25-001 permit requirements. I understand that authorization to discharge under the permit for the project/site named above is dependent on receipt of a Letter of Authorization (LOA) or a Letter of Continued Coverage (LOCC) from the New York State Department of Environmental Conservation (NYSDEC) in accordance with CGP Part I.D.3.b. or Part I.F.4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner/Operator First Name

MI

Owner/Operator Last Name

Signature

Date



SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-25-001 (CGP)

(In accordance with CGP Part I.D.2.b., the completed form must be attached to the eNOI and submitted to NYSDEC electronically.)

Project/Site Name:

Webster Solar Garden LLC

eNOI Submission ID:

HQF-NZHZ-QM45N

Owner/Operator Name:

TM Montante Solar Development

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) has been prepared in accordance with the requirements of GP-0-25-001. I certify under penalty of law that the SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SWPPP Preparer First Name

MI

SWPPP Preparer Last Name

Signature

Date

APPENDIX D

Contractor's Certification

CONTRACTOR AND SUBCONTRACTOR CERTIFICATION STATEMENT

for the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit for Stormwater Discharges from Construction Activity (GP-0-25-001)

As per Part III.A.7. on page 30 of GP-0-25-001 (Effective Date: January 29, 2025):

'Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting, and maintaining the erosion and sediment control practices included in the SWPPP and the contractor(s) and subcontractor(s) that will be responsible for constructing the SMPs included in the SWPPP. The owner or operator must have each of the contractors and subcontractors identify at least one person from their company to be trained contractor that will be responsible for implementation of the SWPPP. The owner or operator must ensure that at least one trained contractor is on site daily when soil disturbance activities are being performed.'

The owner or operator must have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before the commencement of construction activities:

I hereby certify under penalty of law that I understand and agree to comply with the requirements of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the requirements of the most current version of the New York State Pollutant Discharge Elimination System (SPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations.

Signature of Responsible Corporate Officer

Date

Name (Printed)

Name of Company

Title

Address

Telephone of Company

City, State and Zip

Identify the specific elements of the SWPPP the contractor or subcontractor is responsible for:

Trained Contractor for the certified contractor or subcontractor:

Name of Trained Employee

NYSDEC Endorsed 4-Hour Training #

A copy of this signed contractor certification statement must be maintained at the SWPPP on site

**HALEY
ALDRICH**

CONTRACTOR AND SUBCONTRACTOR CERTIFICATION STATEMENT

for the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit for Stormwater Discharges from Construction Activity (GP-0-25-001)

A copy of this signed contractor certification statement must be maintained at the SWPPP on site

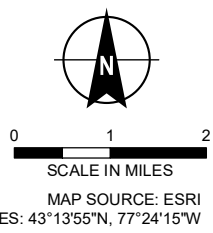
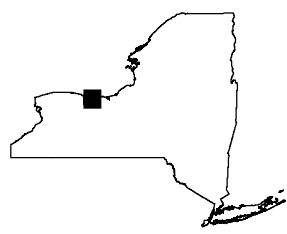


APPENDIX E

Project Locus



GIS FILE PATH: \\haleyaldrich.com\share\CP\Projects\0205399\Global\GIS\Maps\2025-03\0205399_000_0001_PROJECT_LOCATION.mxd — USER: kldodge — LAST SAVED: 3/18/2025 9:35:27 AM



TM MONTANTE SOLAR DEVELOPMENT LLC
 PROPOSED SOLAR PROJECT - 139 CARACAS DRIVE
 TOWN OF WEBSTER
 MONROE COUNTY, NEW YORK

PROJECT LOCATION

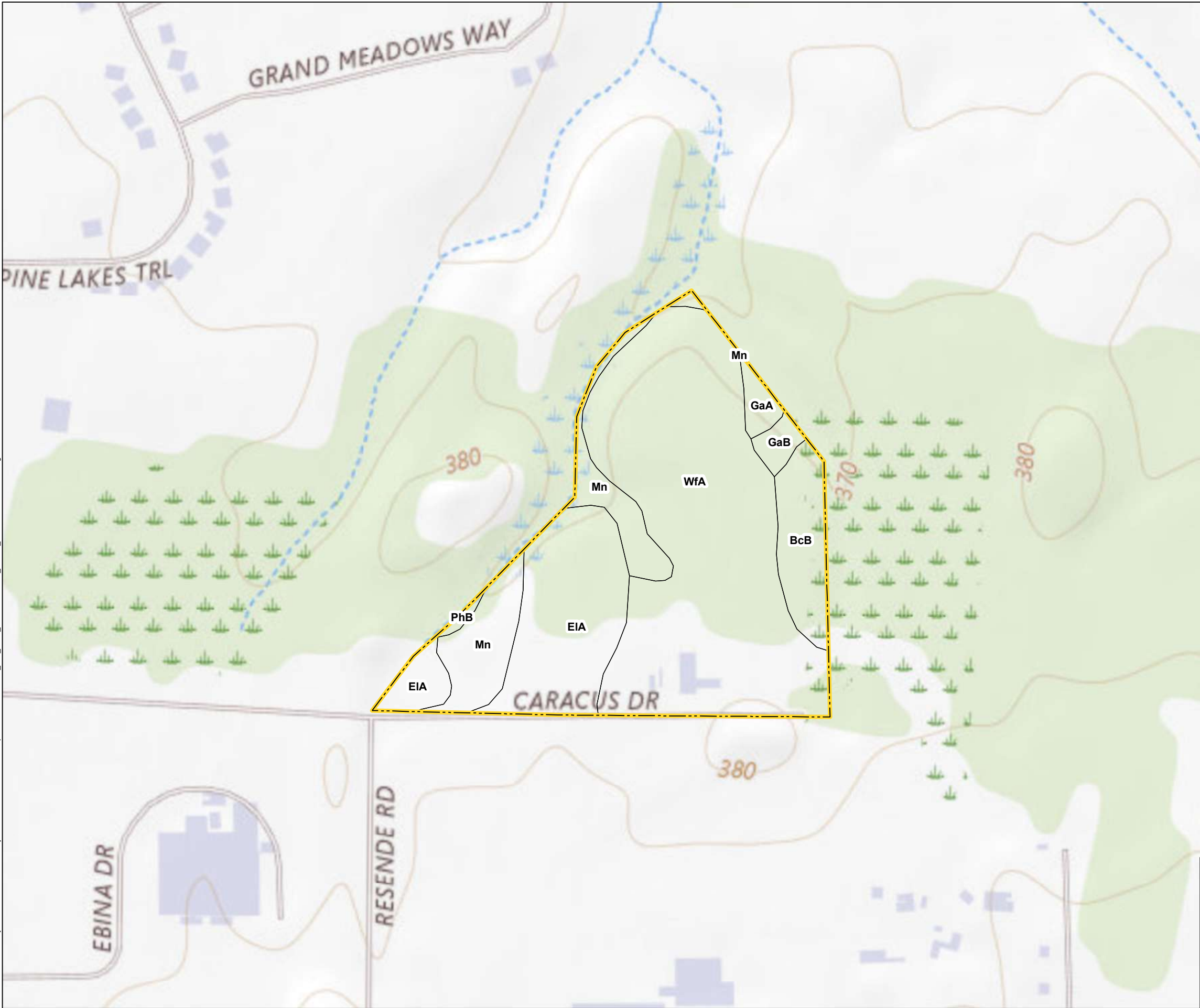
APPROXIMATE SCALE: 1 IN = 2 MI
 MARCH 2025

FIGURE 1

APPENDIX F

Soils Mapping

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0205389\Global\GIS\Maps\2024-10\0205389_002_0002_TOPOGRAPHY_SOILS_D3.mxd — USER: kodge — LAST SAVED: 10/31/2024 8:56:45 AM



LEGEND
STUDY AREA

- STUDY AREA SOILS**
- BcB - Benson channery loam, 0 to 8 percent slopes
 - EIA - Elnora loamy fine sand, 0 to 2 percent slopes
 - GaA - Galen very fine sandy loam, 0 to 2 percent slopes
 - GaB - Galen very fine sandy loam, 2 to 6 percent slopes
 - Mn - Minoa very fine sandy loam
 - PhB - Phelps gravelly fine sandy loam, 3 to 8 percent slopes
 - WfA - Wassaic fine sandy loam, 0 to 4 percent slopes

- NOTES**
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 2. BASE MAP SOURCE: USGS (NATIONAL MAP)
 3. SOILS DATA SOURCE: USDA, NRCS WEB SOIL SURVEY

**HALEY
ALDRICH**

TM MONTANTE SOLAR DEVELOPMENT LLC
XEROX LANDFILL SOLAR PROJECT
TOWN OF WEBSTER
MONROE COUNTY, NEW YORK

TOPOGRAPHY AND SOILS

SCALE: AS SHOWN
OCTOBER 2024

FIGURE 2

APPENDIX G
Agency Consultation Letters

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Heritage Program

625 Broadway, Fifth Floor, Albany, NY 12233-4757

Phone: (518) 402-8935 | Fax: (518) 402-8925

www.dec.ny.gov

02/12/2025

The attached report from the Environmental Resource Mapper includes information from the New York Natural Heritage Program database with respect to the location indicated on the map below. This letter, together with the attached report from the Environmental Resource Mapper, is equivalent to, and carries the same validity, as a letter from the New York Natural Heritage Program, including for projects where a Natural Heritage letter is required.

If your location of interest does not fall within an area covered by the Rare Plants and Rare Animals layer or in the Significant Natural Communities layer, then New York Natural Heritage has no records to report in the vicinity of your project site. Submitting a project screening request to NY Natural Heritage is not necessary.

If the attached report lists that your location of interest is in the vicinity of state-listed animals, including state-listed bats, please consult the [EAF Mapper](#) to obtain a list of the species involved. (You do not have to be filling out an Environmental Assessment Form in order to use the EAF Mapper). Then consult the appropriate [NYSDEC Regional Office](#) for information on any project requirements or permit conditions.

If the attached report lists unlisted animals, rare plants, or significant natural communities, and if you would like more information on these, please submit a project screening request to [New York Natural Heritage](#). For more information, please see the DEC webpage [Request Natural Heritage Information for Project Screening](#).

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, NYNHP files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. NYNHP cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources from a proposed project.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the NYNHP database.

New York Natural Heritage Program

<https://www.nynhp.org/>.

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18

Easting: 304183.6462211731

Northing: 4789473.805238301

Longitude/Latitude

Longitude: -77.41148438140047

Latitude: 43.232655407337695

The approximate address of the point you clicked on is:

139 Caracas Dr, Webster, New York, 14580

County: Monroe

Town: Webster

USGS Quad: WEBSTER

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

Print Preview



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov

In Reply Refer To:

02/12/2025 17:24:27 UTC

Project Code: 2025-0013830

Project Name: Proposed Solar Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2))

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

PROJECT SUMMARY

Project Code: 2025-0013830

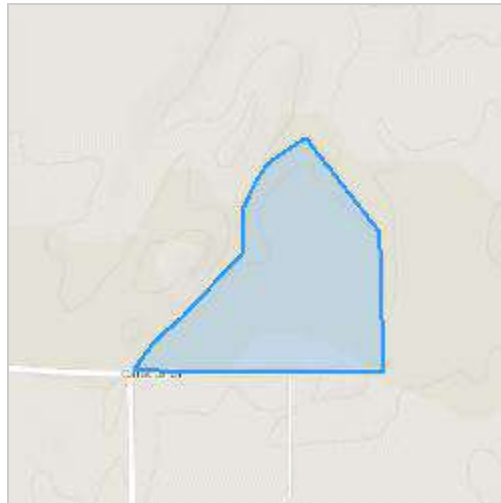
Project Name: Proposed Solar Project

Project Type: Power Gen - Solar

Project Description: TM Montante Solar Development (Montante) is proposing to develop a commercial scale photovoltaic generation (solar) facility located at Xerox Corporation's Webster campus, at 139 Caracas Drive, Town of Webster, Monroe County, New York. The Solar Project would encompass an area approximately 23 acres and includes undeveloped forest and herbaceous land as well as a previously capped inactive landfill and associated monitoring and remedial infrastructure located north of Caracas Drive.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.23410285,-77.41141498273396,14z>



Counties: Monroe County, New York

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: H & A of New York Engineering and Geology, LLP
Name: Thomas Robitaille
Address: 260 E Main St Suite 2100
City: ROCHESTER
State: NY
Zip: 14604
Email: trobitaille@haleyaldrich.com
Phone: 5853214225



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

RANDY SIMONS
Commissioner Pro Tempore

March 19, 2025

Kim Lodge
Technical Specialist
H & A of New York Engineering and Geology, LLP
260 E Main Street
Suite 2100
Rochester, NY 14604

Re: USACE
Proposed Solar Project – 139 Caracas Drive
139 Caracas Dr, Webster, NY 14580
25PR01301

Dear Kim Lodge:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project.

Based upon this review, it is the opinion of the New York SHPO that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above. If you have any questions, please contact Sara Evenson at the following email address:

Sara.Evenson@parks.ny.gov

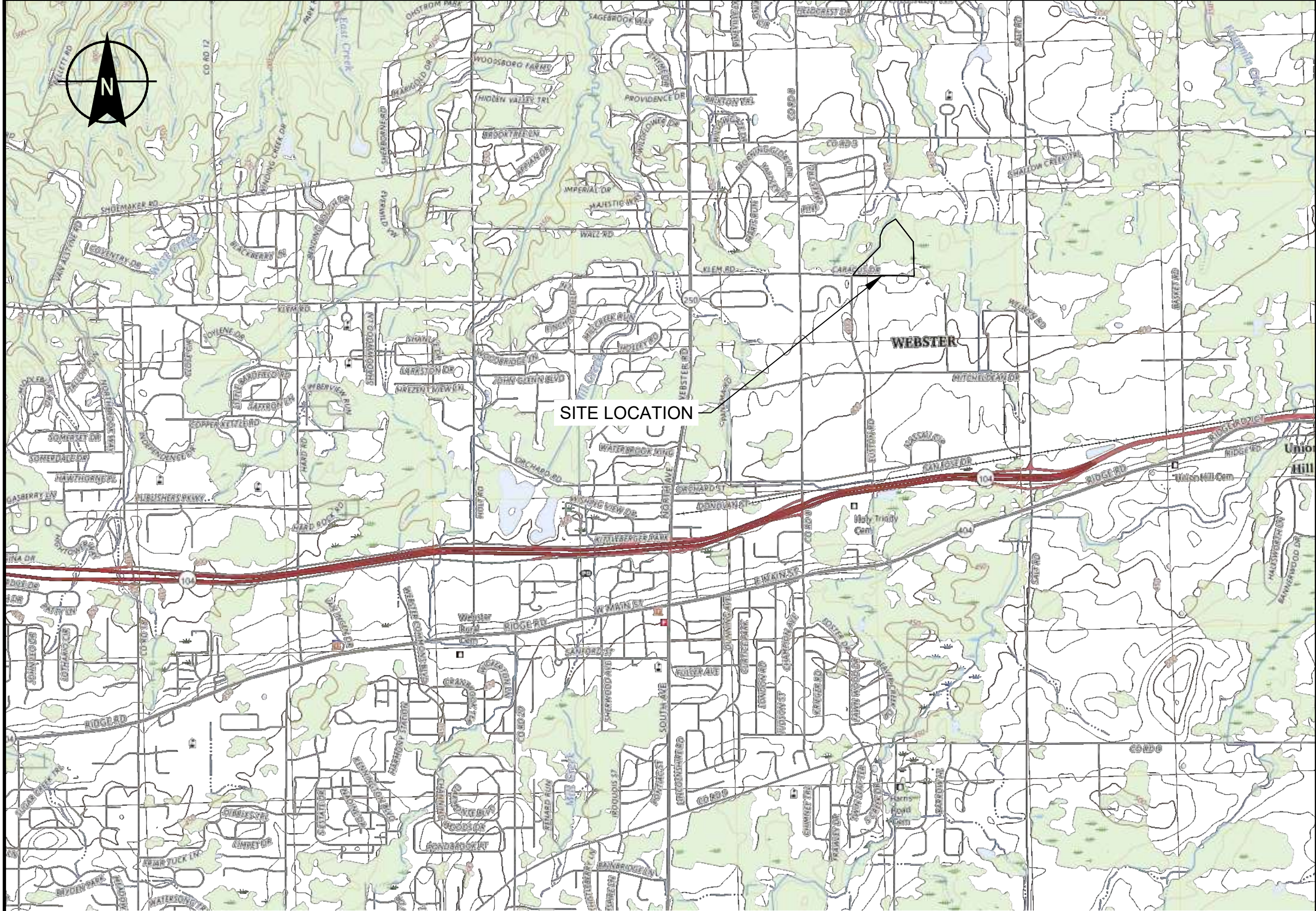
Sincerely,

R. Daniel Mackay

Deputy State Historic Preservation Officer
Division for Historic Preservation

APPENDIX H

Erosion and Sediment Control Plan Drawings



SITE LOCUS
TOPO SOURCE: USGS TOPOGRAPHIC MAP, WEBSTER,
NEW YORK QUADRANGLE (2023).

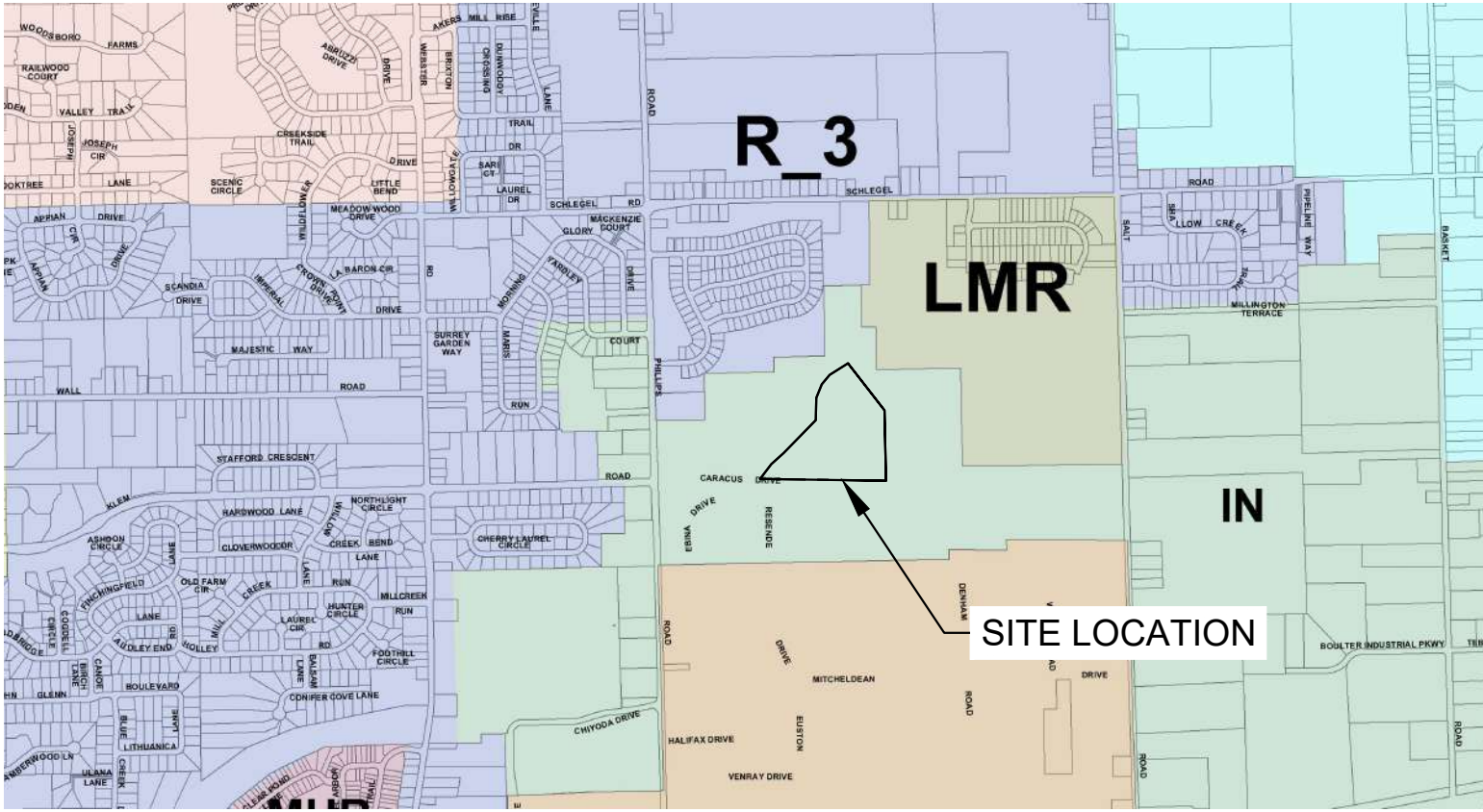


SITE AERIAL
MAP SOURCE: 2023 MICROSOFT CORPORATION © 2023 MAXAR © CNES (2023) DISTRIBUTION AIRBUS DS

MONTANTE XEROX SOLAR DEVELOPMENT

139 CARACAS DRIVE
WEBSTER, NY

- R-1 Single Family Residential District
- R-2 Single Family Residential District
- R-3 Single Family Residential District
- LL Large Lot Single Family Residential District
- WD Waterfront Development District
- MHR Medium High Residential District
- LMR Low Medium Residential District
- LC-1 Class 1 Neighborhood Commercial District
- LC-2 Class 2 Low Intensity Commercial District
- MC Medium Intensity Commercial District
- HC High Intensity Commercial District
- CO Commercial Outdoor Storage District
- IN Industrial District
- OP Office Park



ZONING MAP
NOT TO SCALE

**HALEY
ALDRICH**

H & A OF NEW YORK
ENGINEERING AND GEOLOGY, LLP
260 E. Main Street, Suite 2100
Rochester, NY 14604
Tel: 585.359.9000
www.haleyaldrich.com

PREPARED FOR:
TM MONTANTE SOLAR
DEVELOPMENT, LLC

2760 KENMORE AVE #101
TONAWANDA, NY 14150

THIS IS A COLOR
DRAWING.
INFORMATION WILL
BE LOST IF
REPRODUCED IN
BLACK AND WHITE.

DRAFT

Project No.: 0205399
Scale: SHOWN
Date: DECEMBER 2025
Drawn By: SRG, JC
Designed By: SRG, JC
Checked By: SRG, ND
Approved By: ND
Stamp:

DRAWING INDEX

01	T-100	TITLE SHEET
02	G-100	NOTES
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07	C-203	PHASING PLAN
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MONTANTE XEROX SOLAR
DEVELOPMENT

139 CARACAS DRIVE
WEBSTER, NY

TITLE SHEET

T-100

Sheet: 01 of 11

GENERAL NOTES

1.

THESE DRAWINGS HAVE BEEN PREPARED FOR CONSTRUCTION OF A SOLAR ARRAY WITHIN PORTIONS OF THE XEROX CORPORATION CAMPUS IN WEBSTER, NEW YORK.
2.

THE PROJECT IS LOCATED WITHIN THE LARGER XEROX WEBSTER CAMPUS, WHICH IS A NYSDEC RCRA FACILITY (SITE CODE 828178) FOR IDENTIFIED GROUNDWATER AND SOIL CONTAMINATION CURRENTLY MANAGED UNDER A RCRA PART 373 HAZARDOUS WASTE MANAGEMENT PERMIT (NO. 8-2654-00064/00040).
3.

WATERCOURSES AND WETLANDS FIELD DELINEATED BY HALEY & ALDRICH OF NEW YORK ENGINEERING AND GEOLOGY, LLP (HALEY & ALDRICH OF NEW YORK) MAY 10, 2024.
4.

EXISTING TOPOGRAPHIC CONTOURS FROM SURVEY REPORT BY TERRATEK GPS MODELING WHICH WAS PROVIDED TO HALEY & ALDRICH BY MONTANTE SOLAR DEVELOPMENT, LLC JULY 21, 2025.
5.

TAX PARCEL BOUNDARIES FROM MONROE COUNTY REAL PROPERTY DATABASE, COURTESY OF MONROE COUNTY OFFICE OF REAL PROPERTY.
6.

EXISTING CONDITIONS ARE A COMBINATION OF CAD DRAWINGS PROVIDED BY XEROX, GIS FILES FROM H&A STREAM AND WETLAND DELINEATIONS, AND AERIAL IMAGERY.
7.

EXISTING CONDITIONS ARE APPROXIMATE.
8.

PROPOSED CONDITIONS TAKEN FROM CAD DRAWINGS PROVIDED BY MONTANTE SOLAR DEVELOPMENT, LLC JULY 21, 2025.
9.

PROJECT TO CONFORM TO 2025 NYS FIRE CODE.

CONSTRUCTION SEQUENCE FOR GRADING AND EROSION CONTROL

1.

VERIFY THAT ALL APPLICABLE PERMITS AND PERMISSIONS HAVE BEEN OBTAINED.
2.

OWNER TO HOLD A PRE-CONSTRUCTION MEETING PRIOR TO START OF CONSTRUCTION.
3.

LOCATE AND DELINEATE EXISTING UTILITIES.
4.

CONSTRUCT SITE ACCESS AND INSTALL ASSOCIATED EROSION AND SEDIMENT CONTROLS.
5.

IF APPLICABLE, INSTALL CONSTRUCTION SAFETY FENCING AROUND THE STAGING AREA(S) AND AS DIRECTED BY THE OWNER.
6.

INSTALL STABILIZED CONSTRUCTION ENTRANCE AS DIRECTED BY THE OWNER. EXISTING ENTRANCES WHICH MEET THE REQUIREMENTS OF A STABILIZED CONSTRUCTION ENTRANCE MAY BE UTILIZED AS AVAILABLE. EXISTING ENTRANCES TO BE UPGRADED WITH ADDITIONAL GRAVEL AS NEEDED. UTILIZE ENTRANCE FOR ALL CONSTRUCTION VEHICLES ENTERING/EXITING SITE FOR THE DURATION OF THE CONSTRUCTION.
7.

INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS.
8.

ALL EROSION CONTROLS WITHIN THE CURRENT ACTIVE CONSTRUCTION AREAS ARE TO BE INSPECTED FOR DEFICIENCIES BY THE CONTRACTOR ON A DAILY BASIS FROM INSTALLATION THROUGH THE DURATION OF THE PROJECT. THE EROSION CONTROLS ARE TO BE FUNCTIONING AS INTENDED OR REPAIRED/REPLACED AS NECESSARY. ADDITIONAL REQUESTS FOR REPAIR/REPLACEMENT MAY COME FROM THE ENVIRONMENTAL INSPECTOR OR THE OWNER.
9.

PROTECT TREES AND VEGETATION TO REMAIN.
10.

CONDUCT TREE CLEARING WITHIN THE LIMITS OF DISTURBANCE AND AS DIRECTED BY THE OWNER. FELLED TREES ARE TO BE REMOVED FROM THE SITE AS DIRECTED BY THE OWNER.
11.

TREES ARE TO BE CUT TO GRADE WITH HAND FELLING.
12.

CONTINUE TO MAINTAIN AND MONITOR ALL SITE EROSION AND SEDIMENT CONTROLS DAILY.
13.

CONDUCT EARTHWORK ACTIVITIES FOR INSTALLATION OF EQUIPMENT PAD AND POWER POLES. EARTHWORK TO REMAIN WITHIN THE APPROVED BOUNDARIES OF THE PROJECT (LIMITS OF DISTURBANCE).

14.

SOILS FROM STABILIZED ENTRANCE CONSTRUCTION, EQUIPMENT PAD INSTALLATION, AND POWER POLE INSTALLATION ARE TO BE STOCKPILED, COVERED, SAMPLED, AND STABILIZED ACCORDING TO XEROX SITE MANAGEMENT PLAN REQUIREMENTS AND THE OWNER'S DIRECTION.
15.

COMPLETE FINAL GRADING, PERMANENT SEEDING, TOPSOILING AND MULCHING OF ALL DISTURBED AREAS.
16.

UPON COMPLETE STABILIZATION OF DISTURBED SITE (VEGETATIVE COVER = 80%), ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ARE TO BE REMOVED AND DISTURBANCE RESTORED.

SOIL RESTORATION

1.

SOIL RESTORATION IS TO OCCUR IN LAYDOWN AREAS AND AREAS RECEIVING HIGH VOLUMES OF CONSTRUCTION TRAFFIC.
2.

SOIL RESTORATION IS TO BE CONDUCTED DURING FINAL SITE STABILIZATION.
3.

DURING PERIODS OF LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:

3.1.

APPLY 3 INCHES OF COMPOST OVER SUBSOIL. COMPOST SHALL BE WELL DECOMPOSED (MATURED AT LEAST 3 MONTHS), WEED-FREE, ORGANIC MATTER. IT SHALL BE AEROBICALLY COMPOSTED, POSSESS NO OBJECTIONABLE ODORS, AND CONTAIN LESS THAN 1%, BY DRY WEIGHT, OF MAN-MADE, FOREIGN MATTER. THEY PHYSICAL PARAMETERS OF THE COMPOST SHALL MEET THE STANDARDS SET FORTH IN THE NOVEMBER 2016 NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- 3.2.

TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, TO MIX AND CIRCULATE AIR AND COMPOST INTO THE SUBSOIL.
- 3.3.

ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES OR LARGER SIZE ARE CLEANED OFF THE RESTORATION AREAS.
- 3.4.

APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
- 3.5.

VEGETATE AS REQUIRED BY THE SEEDING PLAN.
- 3.6.

TOPSOIL MAY BE MANUFACTURED AS A MIXTURE OR A MINERAL COMPONENT AND ORGANIC MATERIAL SUCH AS COMPOST. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A $\frac{3}{8}$ INCH METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. THIS SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.

SITE STABILIZATION

1.

INITIATE SITE STABILIZATION IMMEDIATELY (NO LATER THAN 1 BUSINESS DAY) IN ANY AREAS OF EXPOSED SOIL WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR MORE THAN 14 CALENDAR DAYS.
2.

COMPLETE SITE STABILIZATION. FINALIZE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED (STABILIZATION INITIATED) (SEE ABOVE), REGARDLESS OF AREA DISTURBED.

MULCHING

1.

IMMEDIATELY FOLLOWING TEMPORARY/PERMANENT SEED PLACEMENT, STRAW MULCH IS TO BE APPLIED AT A RATE OF 3 TONS PER ACRE OVER DISTURBED AREAS. STRAW MULCH COVERAGE RATES ARE EXPECTED TO PROVIDE A THICKNESS OF 1/4" - 1/2". EXCESSIVE MULCH DEPTH WILL IMPEDE VEGETATIVE GROWTH AND MAY REQUIRED THE REMOVAL OF EXCESS MULCH AS DETERMINED BY THE OWNER AND ENVIRONMENTAL INSPECTOR. MULCHING IS TO BE USED WITH SEEDING AS A COMPONENT OF SITE STABILIZATION. ADDITIONAL MULCH WILL BE REQUIRED IF PROPER COVERAGE (BARE SPOTS) HAS NOT BEEN ACHIEVED.

2.

MULCH APPLIED FOR WINTER SEEDING (OCTOBER 15 THROUGH MARCH 31) SHALL BE INCREASED TO 4 TONS PER ACRE.
3.

AS AN ALTERNATIVE TO STRAW MULCHING, WOOD FIBER HYDROMULCH MAY BE APPLIED AS SPECIFIED BY MANUFACTURER'S RECOMMENDATIONS OR AT A MINIMUM RATE OF 2000 LBS. PER ACRE (45 LBS. PER 1,000 S.F.) WITH A GUAR TACKIFIER (OR EQUIVALENT) AT 60 LBS. ACRE. SOIL AMENDMENTS MAY BE APPLIED WITH MULCH AT THE SPECIFIED APPLICATION RATES. WATER VOLUME IS TO BE DETERMINED BY THE MANUFACTURER. HYDROMULCH IS NOT TO BE APPLIED DURING RAIN. HYDROMULCH APPLICATION IS NOT TO BE APPLIED IF RAIN IS FORECAST WITHIN THE NEXT 2 DAYS. A CURING PERIOD OF 24 HOURS AND A MINIMUM SOIL TEMPERATURE OF 45 DEGREES ARE REQUIRED.

SPECIFICATION NOTES FOR TOPSOILING:

SITE PREPARATION

1.

COMPLETE GRADING TO SUBBASE AND ALLOW FOR FULL DEPTH OF TOPSOIL TO BE ADDED TO ACHIEVE FINAL GRADE.
2.

SCARIFY ALL COMPACTED SUBSOIL AREAS.

APPLICATION AND GRADING

1.

TOPSOIL SHALL BE DISTRIBUTED EVENLY TO THE UNIFORM DEPTH THAT WAS REMOVED FOR STOCKPIILING OR 6" MINIMUM, OVER THE RESTORATION AREA. THE TOPSOIL SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.
2.

TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED IMMEDIATELY: FERTILIZED, SEEDED, MULCHED AND TRACKED WITH METAL CLEATED EQUIPMENT TO KEY IN MULCH AND ENCOURAGE COLLECTING SMALL POCKETS OF WATER ALONG THE SLOPE FOR SEED GROWTH. TRACKING SHALL BE PARALLEL TO GRADE (UP & DOWN SLOPES). SLOPES FLATTER THAN 3H:1V SHALL BE STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS.

EROSION AND SEDIMENT CONTROL NOTES

1.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE APPROVED PERMIT DOCUMENTS.
2.

ALL SITE ACTIVITIES SHALL TAKE PLACE WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE DESIGN PLANS.
3.

THE CONTRACTOR SHALL INSPECT, MAINTAIN AND REPAIR/REPLACE EROSION AND SEDIMENT CONTROLS DAILY AND CONTINUOUSLY THROUGHOUT THE DURATION OF THIS PROJECT.
4.

THE PROPOSED EROSION AND SEDIMENT CONTROLS AS INDICATED ON THE DESIGN PLANS SHALL BE CONSTRUED AS THE MINIMUM REQUIRED STANDARDS. ADDITIONAL CONTROLS ARE TO BE PROVIDED AS NECESSARY TO PREVENT SEDIMENT LADEN DISCHARGES FROM LEAVING THE SITE.
5.

THE CONTRACTOR SHALL CONTINUOUSLY MONITOR THE INSTALLED CONTROLS FOR FUNCTIONALITY AND PROVIDE ADDITIONAL MEASURES AS DIRECTED BY THE OWNER OR ENVIRONMENTAL INSPECTOR. THE CONTRACTOR SHALL MAINTAIN AND REPAIR/REPLACE ALL EROSION AND SEDIMENT CONTROLS UPON DAMAGE OR FAILURE TO FUNCTION AS INTENDED AND UNTIL SITE CONSTRUCTION HAS BEEN COMPLETED.
6.

ALL STOCKPILED SOILS ON SITE SHALL RECEIVE SEDIMENT FILTER SOCK ALONG THE DOWNGRADE AREAS.
7.

ALL SOIL STOCKPILES SHALL BE STABILIZED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER.
8.

ALL EXISTING INLETS ADJACENT TO OR ON SITE SHALL BE PROTECTED FROM SEDIMENT WITH INLET PROTECTION MEASURES.
9.

THE CONTRACTOR SHALL ENSURE THAT STABILIZED CONSTRUCTION ENTRANCE IS BEING UTILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT SEDIMENT AND TRACKED MUD/DIRT ONTO THE PUBLIC RIGHT OF WAY, ROAD OR ACROSS PRIVATE DRIVEWAYS.
10.

CONTRACTOR SHALL INSPECT DAILY, SWEEP AND CLEAN STREETS / DRIVES AS NECESSARY TO MAINTAIN CLEAN AND CLEAR SURFACES. LARGE STONES, ACCUMULATED GRAVEL AND/OR MUD THAT MAY IMPACT PASSING VEHICLES SHALL BE

- CLEANED IMMEDIATELY.

11.

ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SEDIMENT FILTER SOCKS AND EROSION CONTROLS WHEN 50% OF AVAILABLE STORAGE AREA HAS BEEN ACHIEVED OR WHEN THE THE DEVICE NO LONGER FUNCTIONS AS INTENDED OR SEDIMENT LADEN WATER IS PASSING THROUGH OR AROUND THE CONTROL. SILT FENCE THAT IS TORN, HAS BROKEN STAKES OR IS BOWING OUT DUE TO ACCUMULATED SOILS SHALL BE REPAIRED, REPLACED OR CLEANED AND RESET.
12.

ALL EROSION CONTROLS SHALL BE INSPECTED AND CLEANED OF SEDIMENT AS NECESSARY TO ENSURE NO DISCHARGE OF SEDIMENT OFF THE PROPERTY OR OUTSIDE OF LIMITS OF DISTURBANCE IS TAKING PLACE.
13.

DUST CONTROL SHALL BE EMPLOYED THROUGH WATER SPRAYING AS NECESSARY TO MINIMIZE AIRBORNE DUST AND WIND EROSION.
14.

ALL EXCESS EXCAVATED MATERIAL, BRUSH / TIMBER, AND CONSTRUCTION DEBRIS SHALL BE DISPOSED OF AS PER THE OWNER'S PREFERENCE. CONSTRUCTION DEBRIS SHALL BE ADDRESSED AS PER THE OWNER'S DIRECTION OR HAULED OFFSITE TO A LICENSED LANDFILL, AS NECESSARY.
15.

SOIL STOCKPILES TO BE LOCATED ON SITE WITHIN THE LIMITS OF DISTURBANCE UNLESS DIRECTED OTHERWISE BY THE OWNER OR NOTED ELSEWHERE ON THE CONSTRUCTION DRAWINGS.
16.

UNDER NO CIRCUMSTANCES SHALL SILT LADEN WATER BE DISCHARGED FROM TRENCHES / EXCAVATIONS OR RELEASED FROM HYDROSTATIC TESTING DIRECTLY TO ANY WETLAND OR WATER BODY. ANY GROUNDWATER THAT IS ENCOUNTERED WILL NEED TO BE HANDLED AS PER XEROX SITE MANAGEMENT PLAN REQUIREMENTS.

CONSTRUCTION NOTES

1.

MINIMIZE CUT/FILL FOR ACCESS TO SITE TO THE GREATEST EXTENT PRACTICABLE.
2.

WITH THE EXCEPTION OF MINIMAL GROUND DISTURBANCE ASSOCIATED WITH INSTALLING TEMPORARY EROSION AND SEDIMENT CONTROLS (I.E., STAKING FILTER SOCKS TO A MAXIMUM DEPTH OF 6 INCHES) WITHIN THE C&D LANDFILL, NO SOIL EXCAVATION, GRADING, OR GROUND PENETRATIONS ARE PERMISSIBLE IN THE TWO LANDFILL AREAS DENOTED ON THE SITE PLANS. THE PERIMETER OF THE C&D LANDFILL IS APPROXIMATE AND NEARBY/ADJACENT AREAS SHALL BE TREATED THE SAME.
3.

PORTIONS OF THE EXISTING FENCE ALONG THE PERIMETER OF THE ASPHALT-CAPPED LANDFILL WILL BE REMOVED, AND FENCE POLES WILL BE CUT FLUSH TO ALLOW FOR INSTALLATION OF THE SYSTEM.
4.

EXCEPT FOR PORTIONS OF THE EXISTING ASPHALT-CAPPED LANDFILL SECURITY FENCE, EXISTING REMEDIATION INFRASTRUCTURE WITHIN THE DEVELOPMENT AREAS, INCLUDING THE TWO LANDFILL CAPS, MONITORING WELLS,GROUNDWATER PUMPING WELLS, AND ASSOCIATED INFRASTRUCTURE AND UTILITIES, WILL REMAIN IN PLACE AND PROTECTED FROM CONSTRUCTION ACTIVITIES. ACCESS WILL BE MAINTAINED AT THESE AREAS FOR OPERATION AND MAINTENANCE ACTIVITIES REQUIRED BY THE PART 373 PERMIT.
5.

THE MANAGEMENT OF EXCAVATED SOIL WILL BE DETERMINED BY THE PROCESSES IDENTIFIED IN XEROX'S SOIL MANAGEMENT PLAN, UNDER ITS SITE MANAGEMENT PLAN AND AS PART OF THE PART 373 RCRA PERMIT.
6.

THE XEROX SOIL MANAGEMENT PLAN IS CURRENTLY UNDER REVIEW AND REVISION. ANY MODIFICATIONS TO SOIL MANAGEMENT REQUIREMENTS REQUESTED BY NYSDEC WILL BE COORDINATED WITH XEROX AND INTEGRATED INTO THE CONSTRUCTION ACTIVITIES.
7.

IN THE EVENT GROUNDWATER IS ENCOUNTERED IN ANY EXCAVATIONS, IT WILL BE MANAGED IN ACCORDANCE WITH THE GROUNDWATER MANAGEMENT PLAN FOR THE XEROX SITE.
8.

EXCAVATED SOIL WILL BE STOCKPILED IN AN ADJACENT AREA AND WILL BE SAMPLED PER PROCEDURES IN XEROX'S SITE MANAGEMENT PLAN. PENDING THE RESULTS FROM SOIL ANALYTICAL TESTING, THE APPROPRIATE SOIL CLASSIFICATION, MANAGEMENT, AND DISPOSITION REQUIREMENTS WILL BE DETERMINED PER THE XEROX SOIL MANAGEMENT PLAN. STOCKPILES SHALL BE COVERED WITH AN IMPERVIOUS TARP OR BARRIER AND PLACED ON IMPERVIOUS PLASTIC, PENDING THE RESULTS OF THE ANALYSIS.



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E	FOR REVIEW	H&A	12/11/25
D	FOR REVIEW	H&A	10/02/25
C	FOR REVIEW	H&A	09/17/25
B	FOR REVIEW	H&A	08/27/25
A	FOR REVIEW	H&A	08/11/25
Rev.	Description	By	Date

MONTANTE XEROX SOLAR
DEVELOPMENT
DESIGN SUBMITTAL

139 CARACAS DRIVE
WEBSTER, NY

NOTES

G-100

9. IN THE UNLIKELY EVENT OF A DISCOVERY OF AN UNKNOWN CONDITION DURING EXCAVATION IN ANY AREA OF THE SITE, REGARDLESS OF CLASSIFICATION NOTED IN THE XEROX SITE MANAGEMENT PLAN, INCLUDING THE DISCOVERY OF AN UNDERGROUND STORAGE TANK (UST), DRUMS, UNIDENTIFIED CONTAINMENT SOURCE, PRODUCT, ETC. INVASIVE WORK SHALL BE SUSPENDED AND THE XEROX CORPORATION ENVIRONMENTAL OPERATIONS ENGINEER SHALL BE CONTACTED IMMEDIATELY.
10. IDENTIFICATION OF UNKNOWN OR UNEXPECTED CONTAMINATED MEDIA IDENTIFIED BY SCREENING DURING INVASIVE SITE WORK WILL BE PROMPTLY COMMUNICATED BY PHONE TO THE XEROX CORPORATION ENVIRONMENTAL OPERATIONS ENGINEER FOR REPORTING TO NYSDEC'S PROJECT MANAGER. REPORTABLE QUANTITIES OF PETROLEUM PRODUCT WILL ALSO BE REPORTED TO THE NYSDEC SPILLS HOTLINE.
11. COVER MATERIAL (GRASS, TOPSOIL, ASPHALT, CONCRETE OR GRAVEL) WILL BE SEGREGATED FROM THE UNDERLYING SOIL. THE COVER MATERIAL CAN BE DISPOSED OF OR REUSED ON SITE AS DETERMINED BY THE FACILITY AND IS NOT SUBJECT TO THE MANAGEMENT PRACTICES DESCRIBED IN THE XEROX SITE MANAGEMENT PLAN, UNLESS THE EXCAVATION AREA IS ASSOCIATED WITH A SURFACE SPILL.
12. EXCAVATION EQUIPMENT AND TOOLS THAT CONTACT CONTAMINATED SOIL WILL BE DECONTAMINATED UPON COMPLETION OF EXCAVATION ACTIVITIES. DECONTAMINATION WILL BE ACCOMPLISHED WITH A PRESSURE WASHER, HOSE, HAND-WASHING WITH SOAP AND WATER, OR OTHER APPROPRIATE METHOD. DECONTAMINATION WATER/RINSATE WILL BE CONTAINERIZED AND DISCHARGED IN COMPLIANCE WITH THE EXISTING PROCEDURES, PERMITS AND APPROVALS.
13. EXCAVATED SOIL THAT REQUIRES OFF-SITE DISPOSAL WILL BE CHARACTERIZED FOR MANAGEMENT PURPOSES THROUGH THE COLLECTION OF REPRESENTATIVE SAMPLES FOR LABORATORY ANALYSIS OF SITE CONTAMINANTS DEPENDING ON THE NATURE OF THE CONTAMINANTS LIKELY TO BE PRESENT AND LANDFILL REQUIREMENTS.
14. SOILS STAGED AFTER WORKING HOURS MUST BE SECURED AGAINST UNINTENDED INTRUSION AND MUST BE KEPT UNDER A COVER IN ORDER TO MINIMIZE SOIL RUN-OFF DURING PRECIPITATION EVENTS. THE EXCAVATED SOIL WILL ALSO BE STAGED ON AN IMPERMEABLE MATERIAL SUCH AS PLASTIC SHEETING OR TARPS TO MINIMIZE CONTAMINATION OF THE STAGING AREA. SOILS THAT ARE NOT USED TO BACKFILL THE EXCAVATION WILL REMAIN STAGED PENDING THE RECEIPT OF LABORATORY ANALYTICAL RESULTS CHARACTERIZING THE SOIL.
15. ALL MATERIALS PROPOSED FOR IMPORT ONTO THE SITE WILL BE TESTED AND APPROVED BY XEROX AND WILL BE FOLLOWING PROVISIONS IN THIS SOIL MANAGEMENT PLAN PRIOR TO RECEIPT AT THE SITE.
16. IMPORTED SOIL MATERIAL WILL MEET THE BACKFILL AND COVER SOIL TESTING AND QUALITY STANDARDS PRESENTED IN DER-10 APPENDIX 5 ALLOWABLE CONSTITUENT LEVELS FOR IMPORTED FILL OR SOIL FOR COMMERCIAL/INDUSTRIAL USE AND THE NYSDEC SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL (PFAS) DOCUMENT DATED APRIL 2023.
17. TRUCKS ENTERING THE SITE WITH IMPORTED SOILS WILL BE SECURELY COVERED WITH TIGHT FITTING COVERS. IMPORTED SOILS WILL BE STOCKPILED SEPARATELY FROM EXCAVATED MATERIALS AND COVERED TO PREVENT DUST RELEASES.
18. THE FOLLOWING MATERIALS CAN BE IMPORTED AND MAY BE USED ON-SITE WITHOUT TESTING; (COMMERCIALLY PURCHASED BAGGED TOPSOIL USED FOR LANDSCAPING PURPOSES, GRAVEL, ROCK, OR STONE (NON-SOIL) CONSISTING OF VIRGIN MATERIAL FROM A PERMITTED MINE OR QUARRY.
19. ALL OTHER MATERIALS, INCLUDING SOIL OR SAND IMPORTED FROM A VIRGIN MINE OR PIT AND MATERIAL (INCLUDING GRAVEL, ROCK, STONE, SAND, SOIL, ETC.) FROM SOURCES OTHER THAN A VIRGIN MINE OR PIT CAN ONLY BE USED ON-SITE PENDING ANALYTICAL TESTING. ALL IMPORTED SOILS THAT REQUIRE TESTING WILL MEET THE BACKFILL SOIL QUALITY STANDARDS ESTABLISHED IN 6NYCRR 375-6.7(D).
20. SOLID WASTE OR IMPORTED MATERIALS FROM OTHER INDUSTRIAL SITES, SPILL SITES, OR OTHER REMEDIATION OR CONTAMINATED SITES IS PROHIBITED FROM BEING USED ON-SITE.

SPECIFICATION NOTES FOR PERMANENT SEEDING

SOIL AMENDMENTS

1. SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2-4 INCHES OF SOIL WHEN FEASIBLE.
2. CONTRACTOR SHALL CONDUCT SOIL TESTING FOR pH AND CONSULT WITH WITH ENTITIES SUCH AS THE CORNELL COOPERATIVE EXTENSION, OR OTHERS, FOR RECOMMENDATIONS FOR SOIL AMENDMENTS.

TIME OF PLANTING

1. PERMANENT SEEDING TO BE DONE BETWEEN APRIL 1 AND OCTOBER 14. ANY SEEDING FROM OCTOBER 15 TO MARCH 31 WILL BE TEMPORARY SEEDING (AROOSTOOK-WINTER RYE) AND WILL REQUIRE PERMANENT SEEDING TO TAKE PLACE THE FOLLOWING SEASON. FALL SEEDING IS THE PREFERRED SEEDING TIME.

SITE RESTORATION

1. PROVIDE EROSION CONTROL MEASURES, BRING THE TOPSOILED AREA TO DESIRED GRADE AND PREPARE FOR SEEDING. RESTORE DISTURBED SOIL AREAS TO EXISTING GRADE AND PROVIDE TOPSOIL, SEED, MULCH, AND ADD SOIL AMENDMENTS AS NECESSARY.
2. PREPARE SEEDBED, LOOSENING SOIL TO A DEPTH OF 3-4 INCHES.
3. REMOVE ALL STONES OVER THREE INCH (3") IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
4. APPLY FERTILIZER PER RECOMMENDATIONS RESULTING FROM SOIL pH TESTING.
5. SEED PREPARED AREAS WITH SEED MIX AT APPLICATION RATE SPECIFIED BY THE MANUFACTURER.
6. SMOOTH AND FIRM SEEDBED.
7. APPLY MULCH AT SPECIFIED APPLICATION RATE (MULCHING SECTION OF THESE NOTES).

PERMANENT SEEDING MIXTURES

1. PERMANENT GRASS SEED TYPE TO BE AS DIRECTED BY MONTANTE.
2. FOR AREAS DESIGNATED AS POLLINATOR PLANTING IN THESE PLANS THE CONTRACTOR SHALL FURNISH POLLINATOR FRIENDLY, NATIVE PLANT SEED MIX TO THE OWNER FOR REVIEW AND APPROVAL. THE POLLINATOR SEED MIX SHALL CONTAIN ONE OR SEVERAL OF THE FOLLOWING:

COMMON MILKWEED (ASCLEPIEAS SYRIACA) - UPLAND AREAS
BUTTERFLY MILKWEED (ASCLEPIEAS TUBEROSA, PA ECOTYPE - UPLAND AREAS
SWAMP MILKWEED (A. INCARNATA) - WETLAND AREAS
3. FOR DISTURBED AREAS NOT DESIGNATED AS POLLINATOR PLANTING IN THESE PLANS THE CONTRACTOR SHALL FURNISH A NORTHEAST ROADSIDE MIX, SUCH AS PARTIALLY SHADED AREA ROADSIDE MIX (ERNMX-140), TO THE OWNER FOR REVIEW AND APPROVAL.



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PREPARED FOR:

TM MONTANTE SOLAR
DEVELOPMENT, LLC

2760 KENMORE AVE #101
TONAWANDA, NY 14150

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Designed By:	SRG, JC
Checked By:	SRG, ND
Approved By:	ND
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MONTANTE XEROX SOLAR
DEVELOPMENT
DESIGN SUBMITTAL

139 CARACAS DRIVE
WEBSTER, NY

NOTES

G-101



1. LANDFILL VENTS ARE TO BE PROTECTED DURING CONSTRUCTION.
2. EXISTING TREELINE SHOWN IS DRAWN USING AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.

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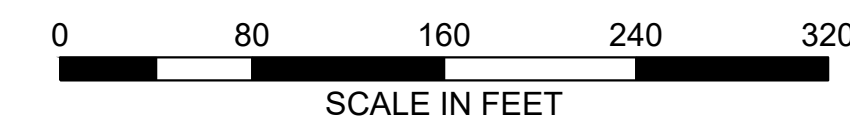
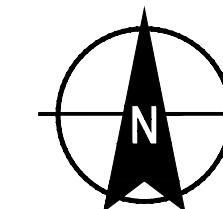
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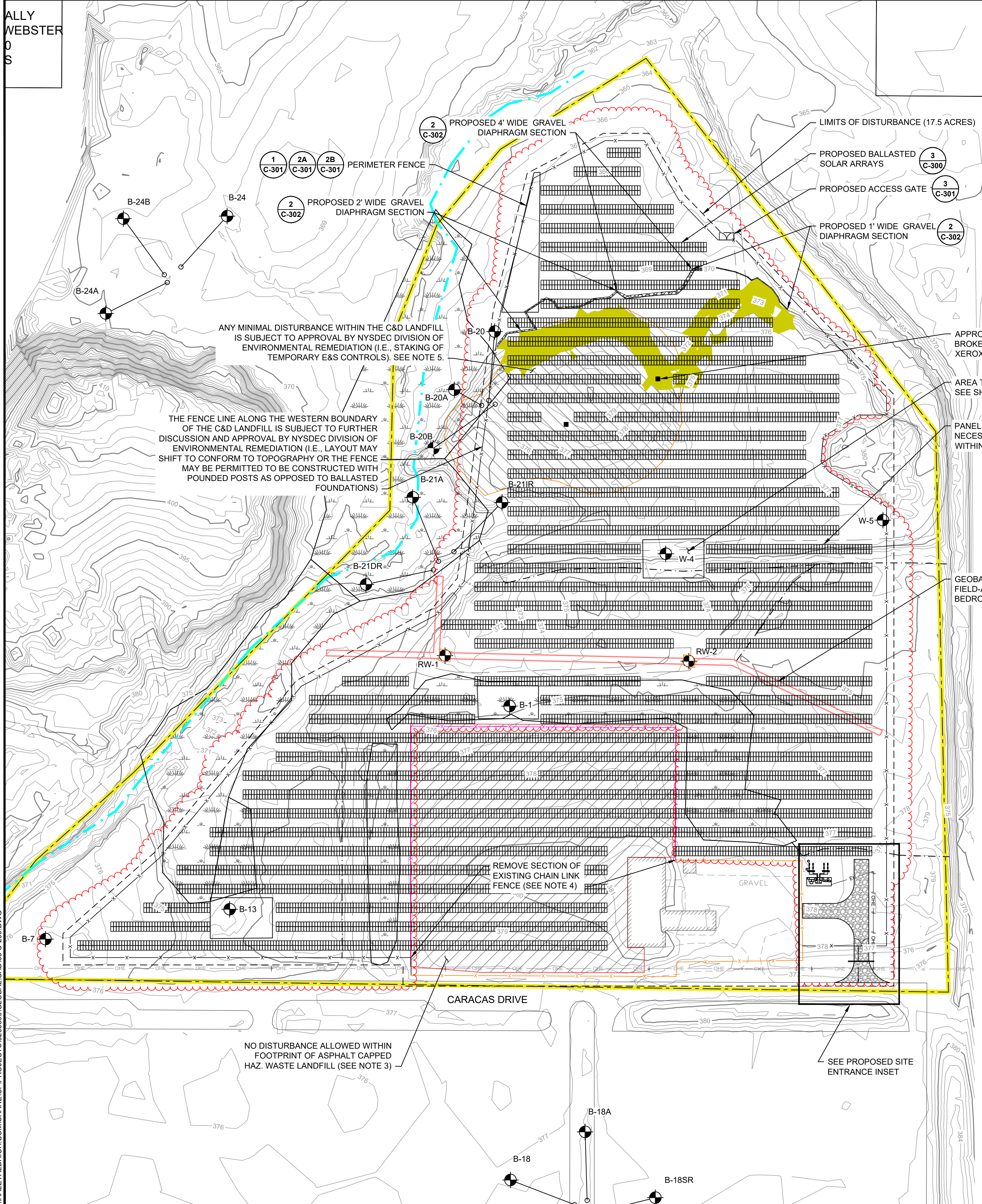
139 CARACAS DRIVE
WEBSTER, NY

EXISTING CONDITIONS

C-100

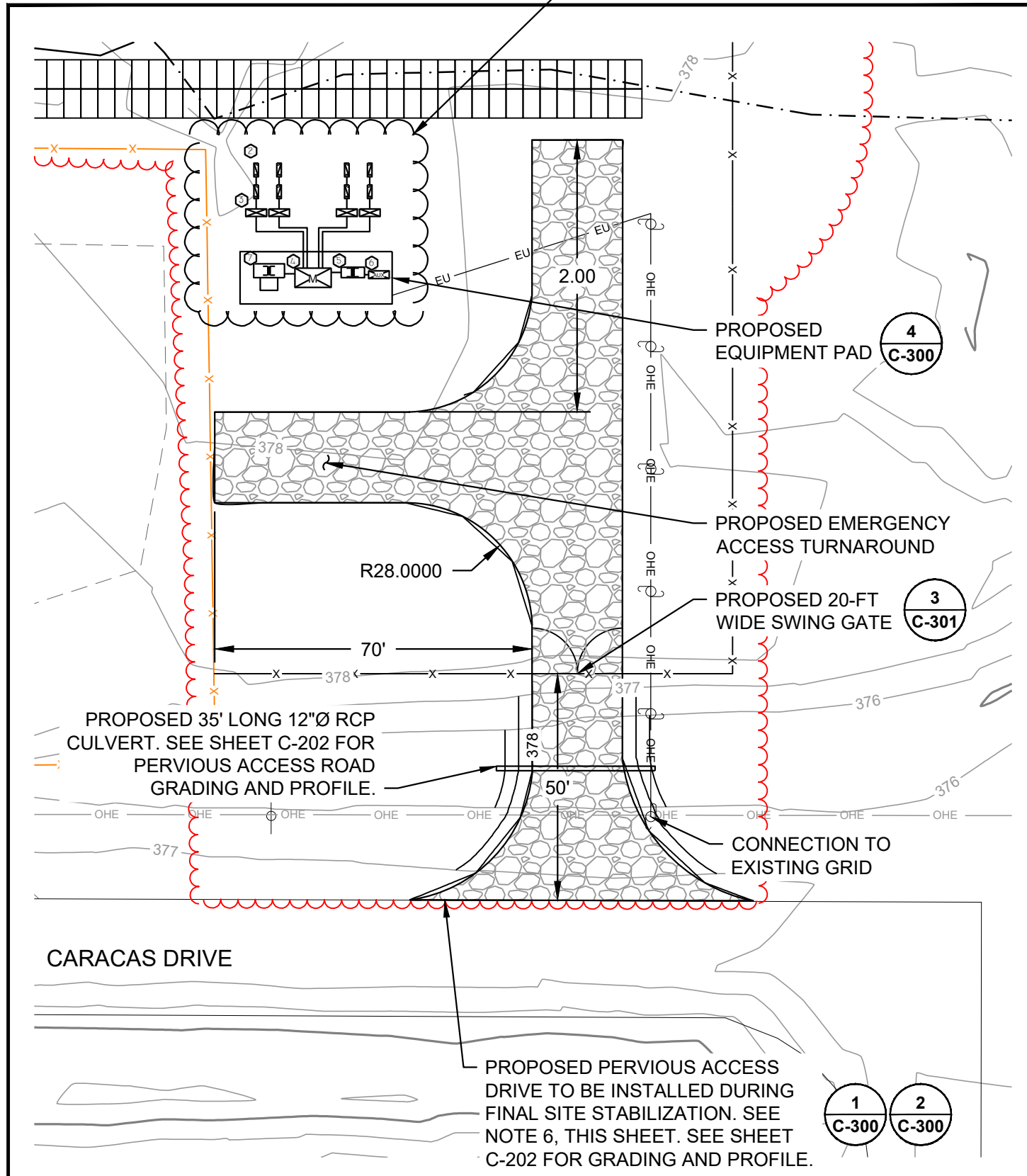
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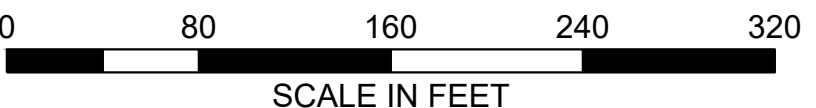
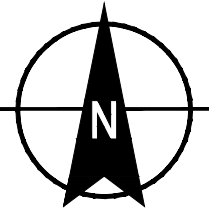


- LEGEND**
- SOLAR STUDY AREA
 - PARCEL BOUNDARY
 - EXISTING BUILDING
 - DELINEATED WETLAND
 - EXISTING DELINEATED STREAM
 - EXISTING BEDROCK TRENCH
 - EXISTING CHAIN LINK FENCE
 - PROPOSED CHAIN LINK FENCE
 - EXISTING MONITORING WELL
 - APPROX. EXTENTS OF C&D LANDFILL
 - APPROX. EXTENTS OF ASPHALT CAPPED HAZ. WASTE LANDFILL
 - EXISTING C&D LANDFILL VENT
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED OVERHEAD ELECTRIC
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED UTILITY POLE
 - PROPOSED SITE ACCESS DRIVE
 - PROPOSED LIMITS OF TREE CLEARING
 - EXISTING FENCE TO BE REMOVED
 - PROPOSED AREAS TO RECEIVE POLLINATOR SEED MIX
 - AREAS WITH SOLAR PANELS INSTALLED ON CONTINUOUS SLOPES $\geq$ 8%

- NOTES**
- LIMITS OF DISTURBANCE = 17.5 ACRES**
LIMITS OF TREE CLEARING = 15.1 ACRES
 - LANDFILL VENTS ARE TO BE PROTECTED DURING CONSTRUCTION.
 - A MINIMUM SETBACK OF 30 FEET TO BE ESTABLISHED AROUND ALL MONITORING WELLS WITHIN THE PROPOSED WORK AREA.
 - PROPOSED PERVIOUS ACCESS DRIVE TO BE PROTECTED DURING CONSTRUCTION. CONSTRUCTION TRAFFIC TO USE TEMPORARY CONSTRUCTION ACCESSSES SHOWN ON SHEET C-201.
 - REFER TO NOTES ON G-100 REGARDING CONSTRUCTION SEQUENCE FOR GRADING AND EROSION AND SEDIMENT CONTROLS.
 - ALL SITE TRAFFIC AND EQUIPMENT IS NOT PERMITTED TO ENTER THE ASPHALT CAPPED HAZ. WASTE LANDFILL AREA OR USE FOR SITE ACCESS IN ANY CAPACITY. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING LANDFILL COVERS.
 - DECOMPACTION OF ALL TEMPORARY CONSTRUCTION ACCESS DRIVES MAY BE REQUIRED IN ACCORDANCE WITH 2024 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S (NYSDEC) CONSTRUCTION GENERAL PERMIT (CGP) REQUIREMENTS.



PROPOSED SITE ENTRANCE INSET
SCALE: 1"=30'



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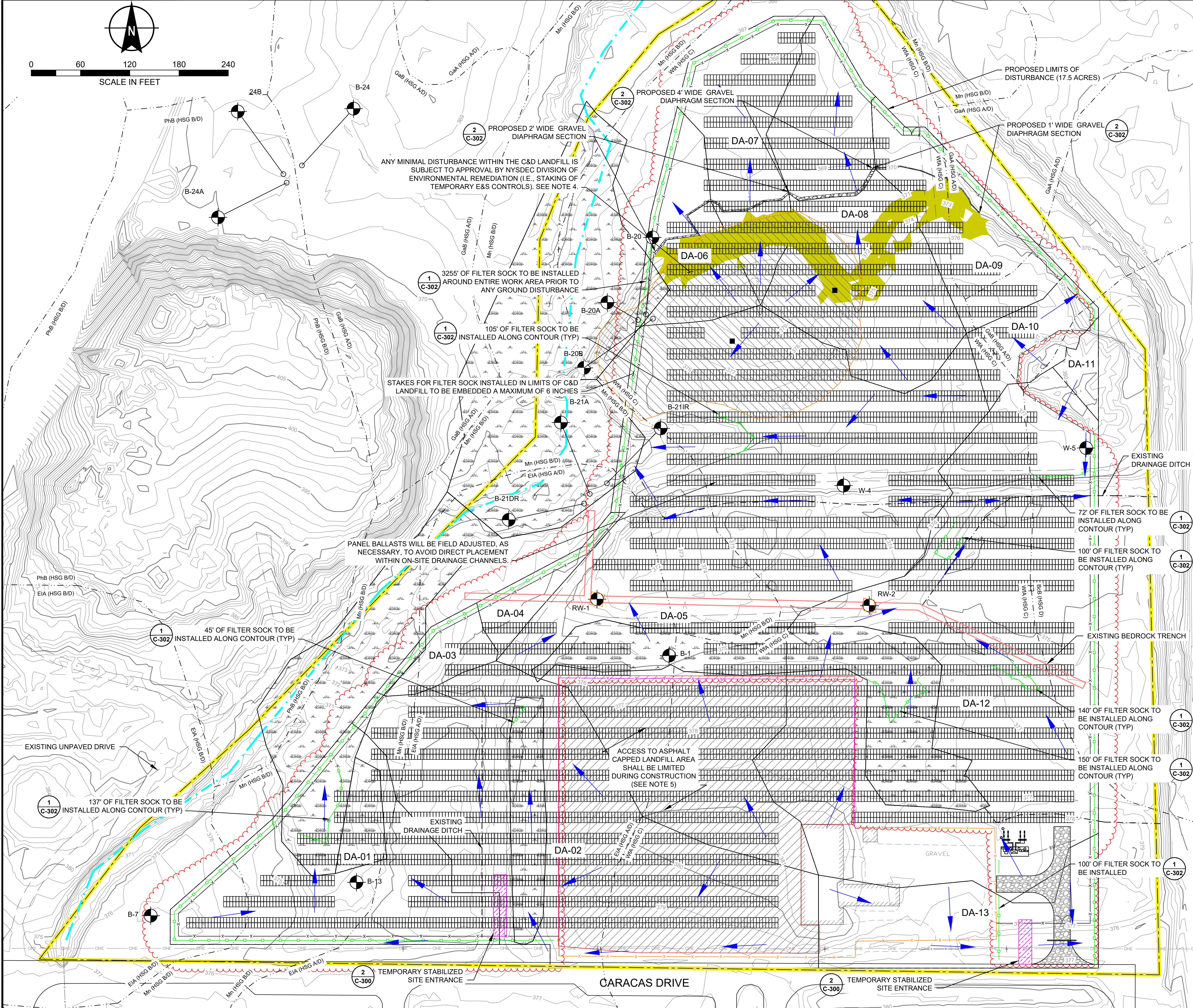
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MONTANTE XEROX SOLAR
DEVELOPMENT
DESIGN SUBMITTAL
139 CARACAS DRIVE
WEBSTER, NY

**PROPOSED
CONDITIONS**

C-200



LEGEND

- SOLAR STUDY AREA
- EXISTING BUILDING
- DELINEATED WETLAND
- DELINEATED STREAM
- EXISTING BEDROCK TRENCH
- EXISTING DRAINAGE DITCH
- EXISTING CULVERT
- EXISTING CHAIN LINK FENCE
- PROPOSED CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING DELINEATED STREAM
- APPROX. EXTENTS OF C&D LANDFILL
- APPROX. EXTENTS OF ASPHALT CAPPED HAZ. WASTE LANDFILL
- EXISTING C&D LANDFILL VENT
- B-21A EXISTING MONITORING WELL
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED LIMITS OF FILTER SOCK
- PROPOSED LIMITS OF TREE CLEARING
- SOIL BOUNDARY
- DELINEATED DRAINAGE AREAS
- FLOW ARROW
- EXISTING FENCE TO BE REMOVED
- AREAS WITH SOLAR PANELS INSTALLED ON CONTINUOUS SLOPES $\geq 8\%$

NOTES

- LIMITS OF DISTURBANCE = 17.5 ACRES**
LIMITS OF TREE CLEARING = 15.1 ACRES
- LANDFILL VENTS ARE TO BE PROTECTED DURING CONSTRUCTION.
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- FILTER SOCKS INTERIOR TO THE LOD ARE TO BE INSTALLED DOWNSTREAM OF ACTIVE TREE CLEARING AND MAINTAINED UNTIL FINAL STABILIZATION. FILTER SOCKS INTERIOR TO THE LOD MAY BE MOVED TO LOCATIONS APPROXIMATE TO THOSE SHOWN ON THE PLANS TO ALLOW FOR SOLAR ARRAY INSTALLATION.
- STORMWATER CONTROLS ARE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN ENGINEER/MS4 REVIEWER AND BY NYSDEC.

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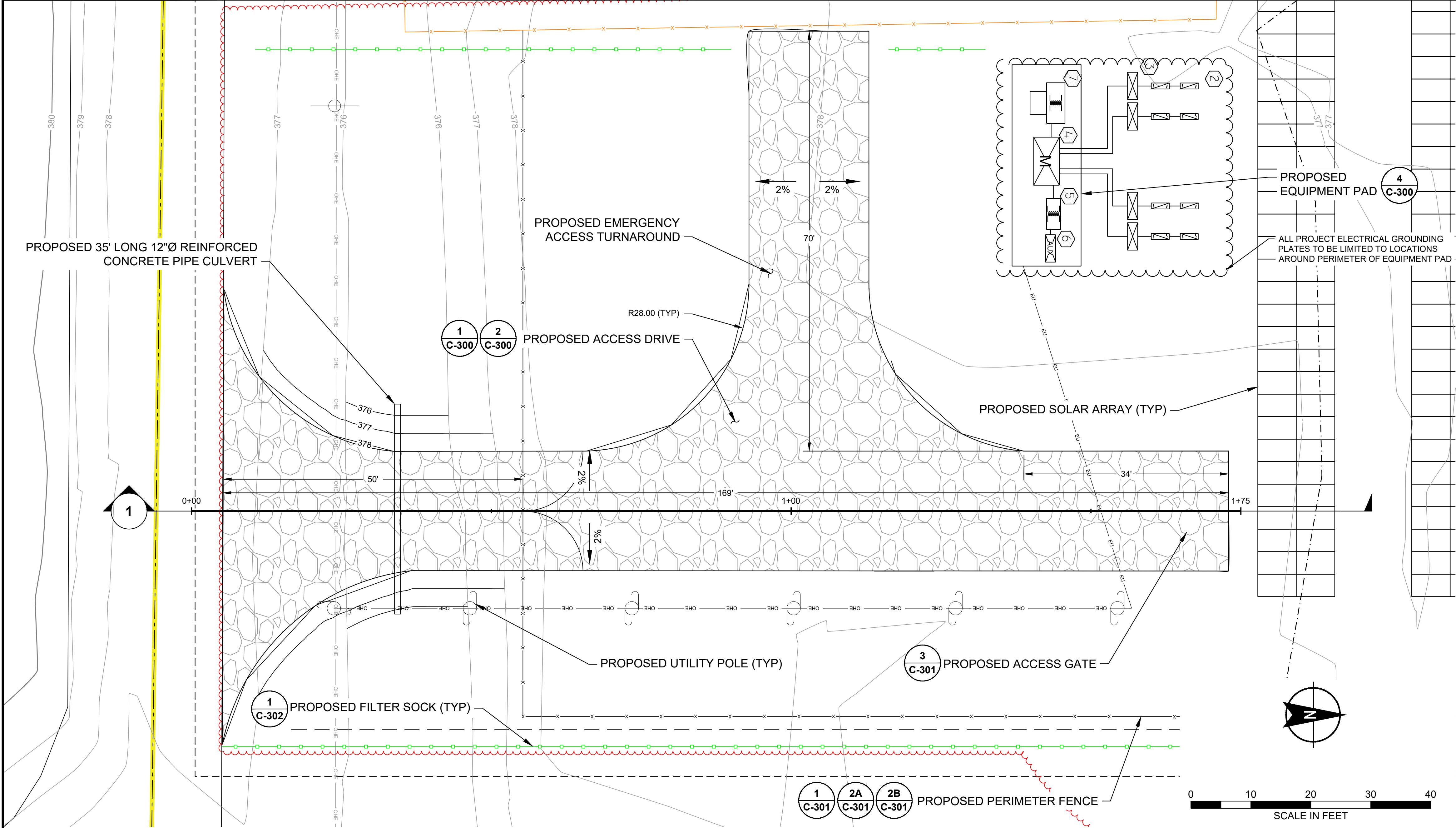
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139 CARACAS DRIVE
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**EROSION AND
SEDIMENT
CONTROLS PLAN**

C-201

Sheet: 06 of 11



- LEGEND**
- SOLAR STUDY AREA
 - PARCEL BOUNDARY
 - 100 FT STREAM SETBACK
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING CHAIN LINK FENCE
 - PROPOSED CHAIN LINK FENCE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED FILTER SOCK
 - PROPOSED OVERHEAD ELECTRIC
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED LIMITS OF TREE CLEARING

- NOTES**
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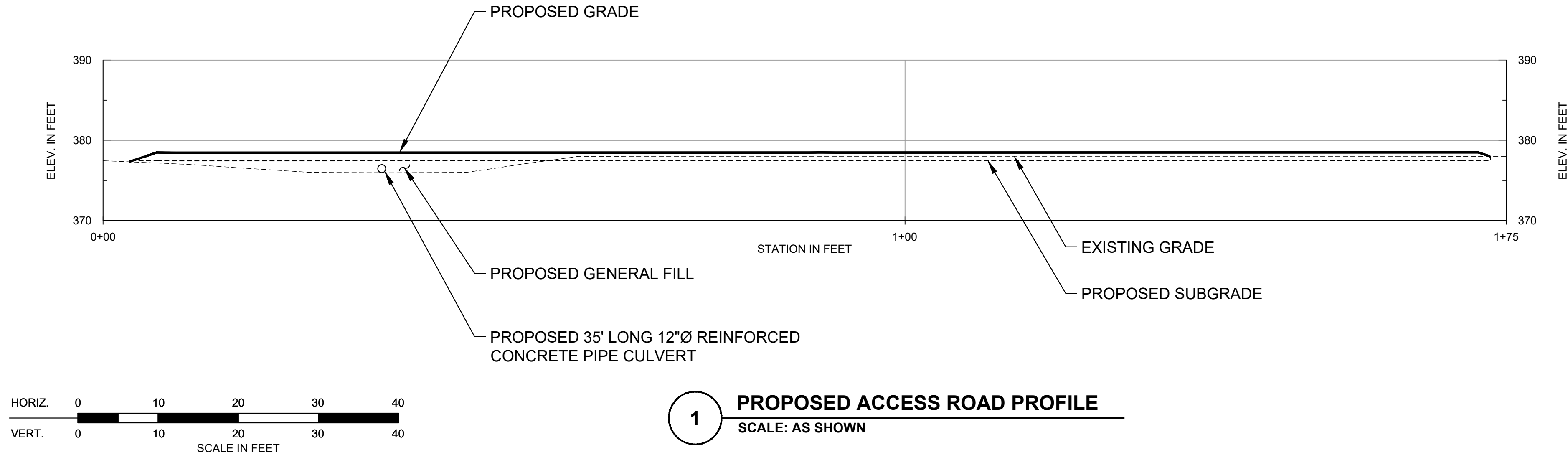
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139 CARACAS DRIVE
WEBSTER, NY

PROPOSED
ACCESS ROAD
GRADING PLAN

C-202

Sheet: 07 of 11

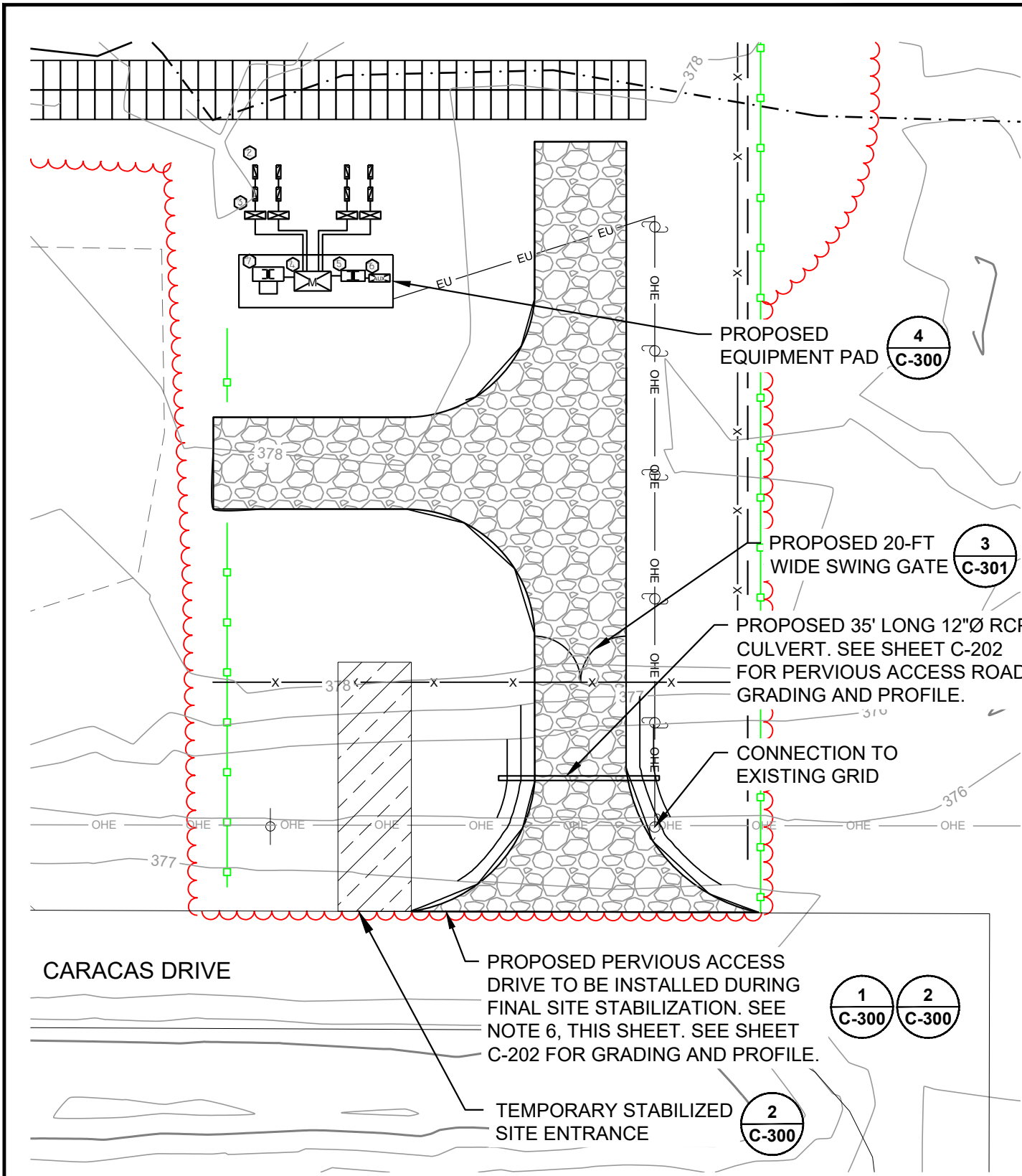


1 PROPOSED ACCESS ROAD PROFILE
SCALE: AS SHOWN

NOW OR FORMALLY
REMAINING LAND
LABELLA TERRA
5B 360/68-70
151.67 ACRES

NOW OR FORMALLY
XEROX-ALDER SUB
365/34
165.72 ACRES

CONSTRUCTION PHASING		
PRE-CONSTRUCTION	XEROX TO RE-PAVE THE ASPHALT LANDFILL	Schedule TBD
INSTALL EROSION AND SEDIMENT CONTROLS	INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS	Schedule TBD
	INSTALL STABILIZED CONSTRUCTION ENTRANCES	Schedule TBD
TREE CLEARING	CONDUCT TREE CLEARING	Schedule TBD
GRADING AND UTILITY INSTALLATION	INSTALL GRAVEL DIAPHRAGM	Schedule TBD
	INSTALL EQUIPMENT PAD	Schedule TBD
	INSTALL UTILITY POLES	Schedule TBD
	INSTALL ELECTRIC LINES	Schedule TBD
SOLAR ARRAY INSTALLATION	INSTALL SOLAR ARRAYS	Schedule TBD
FINAL SITE STABILIZATION	INSTALL PERVIOUS SITE ENTRANCE	Schedule TBD
	CONDUCT FINAL STABILIZATION	Schedule TBD
	CONDUCT FINAL SITE INSPECTION	Schedule TBD
	REMOVE EROSION AND SEDIMENT CONTROLS	Schedule TBD

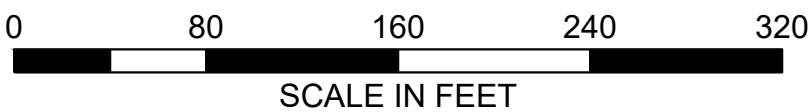
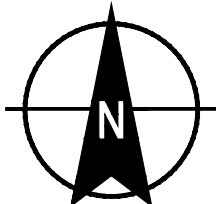


PROPOSED SITE ENTRANCE INSET

SCALE: 1"=30'

	SOLAR STUDY AREA
	PARCEL BOUNDARY
	EXISTING BUILDING
	DELINEATED WETLAND
	DELINEATED STREAM
	EXISTING BEDROCK TRENCH
	EXISTING CHAIN LINK FENCE
	PROPOSED CHAIN LINK FENCE
	EXISTING MONITORING WELL
	APPROX. EXTENTS OF C&D LANDFILL
	APPROX. EXTENTS OF ASPHALT CAPPED HAZ. WASTE LANDFILL
	EXISTING C&D LANDFILL VENT
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED UTILITY POLE
	PROPOSED SITE ACCESS DRIVE
	PROPOSED LIMITS OF TREE CLEARING
	PROPOSED LIMITS OF FILTER SOCK
	EXISTING FENCE TO BE REMOVED
	PROPOSED STAGING AREAS
	AREAS WITH SOLAR PANELS INSTALLED ON CONTINUOUS SLOPES $\geq 8\%$

1. **LIMITS OF DISTURBANCE = 17.5 ACRES**
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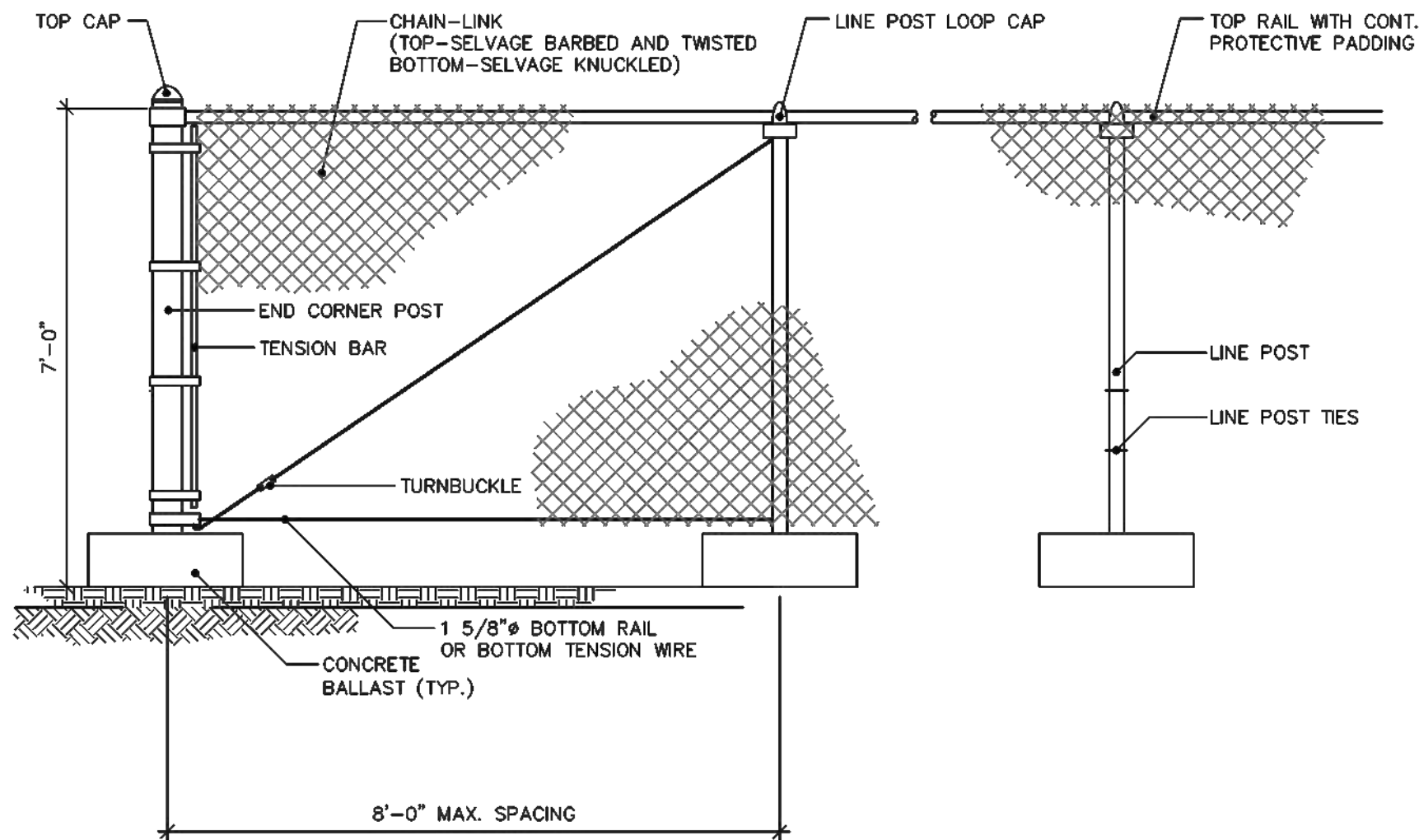
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139 CARACAS DRIVE
WEBSTER, NY

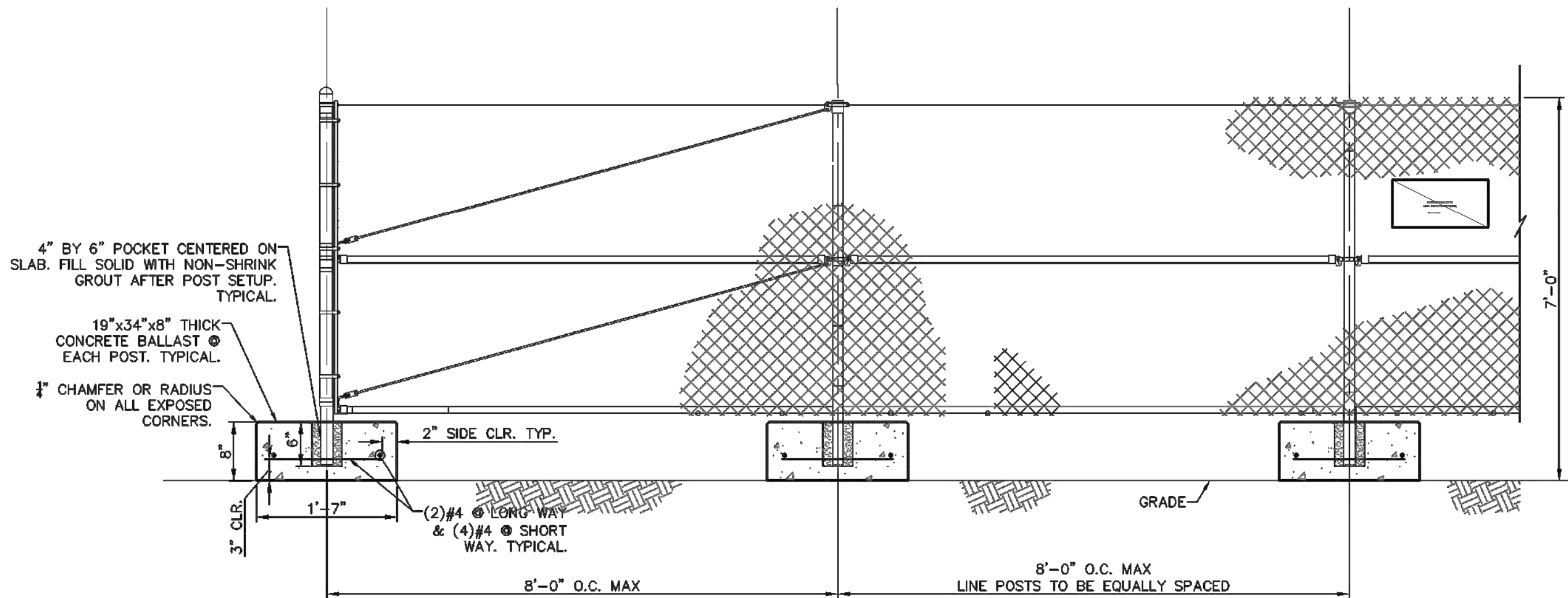
PHASING PLAN

C-203

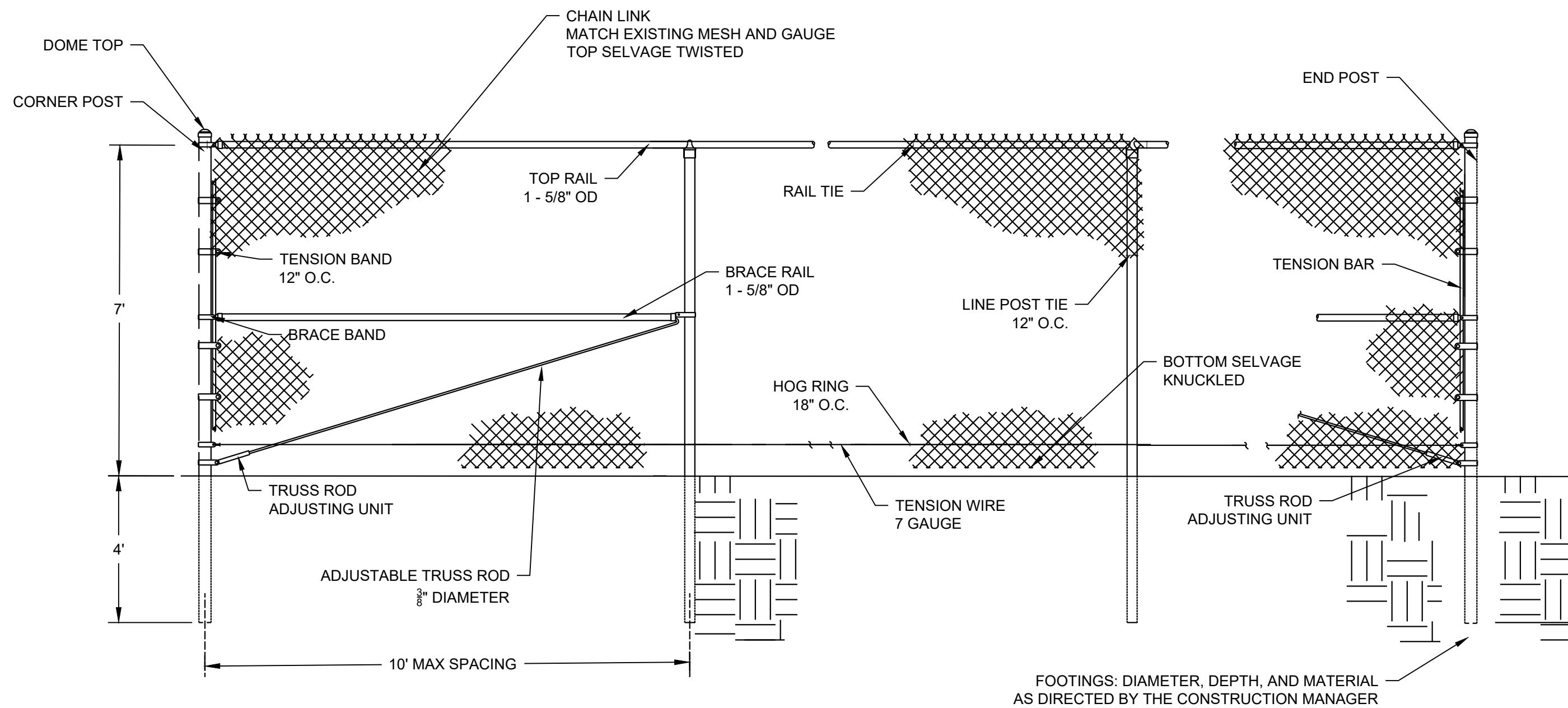
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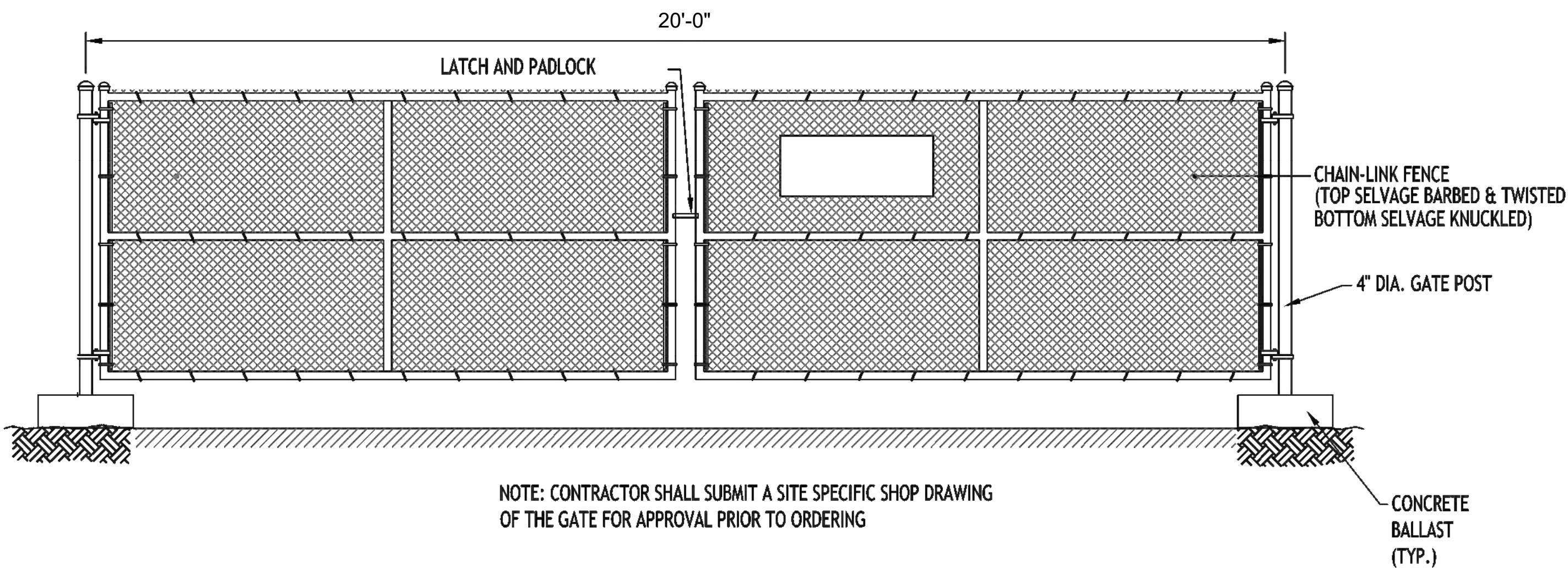
1 7' BALLASTED CHAIN-LINK FENCE DETAIL
SCALE: NOT TO SCALE



2A BALLASTED FENCE POST FOOTING DETAIL
SCALE: NOT TO SCALE

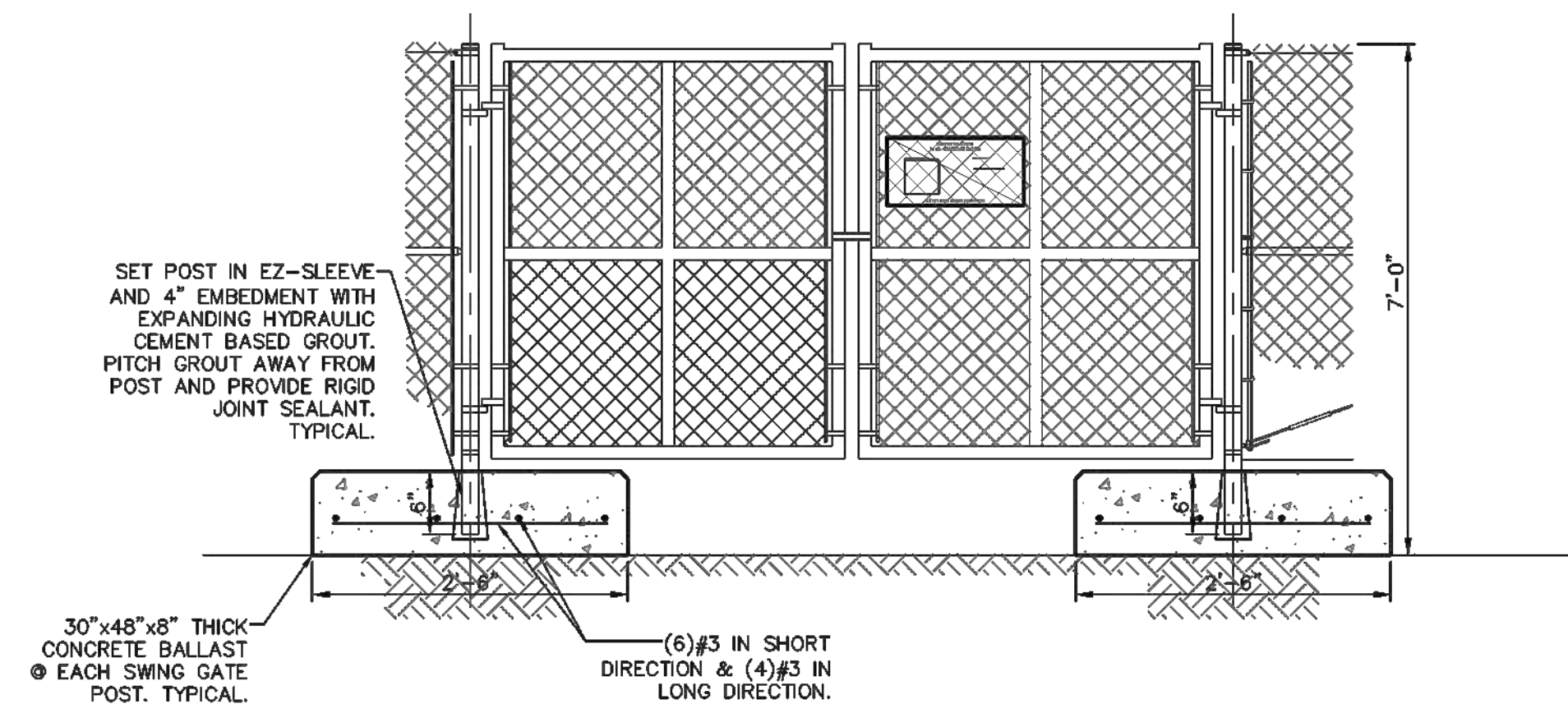


2B DRIVEN FENCE POST FOOTING DETAIL
SCALE: NOT TO SCALE



NOTE: CONTRACTOR SHALL SUBMIT A SITE SPECIFIC SHOP DRAWING OF THE GATE FOR APPROVAL PRIOR TO ORDERING

3 20' WIDE BALLASTED DUAL SWING GATE DETAIL
SCALE: NOT TO SCALE



4 20' WIDE BALLASTED DOUBLE SWING GATE POST FOOTING DETAIL
SCALE: NOT TO SCALE

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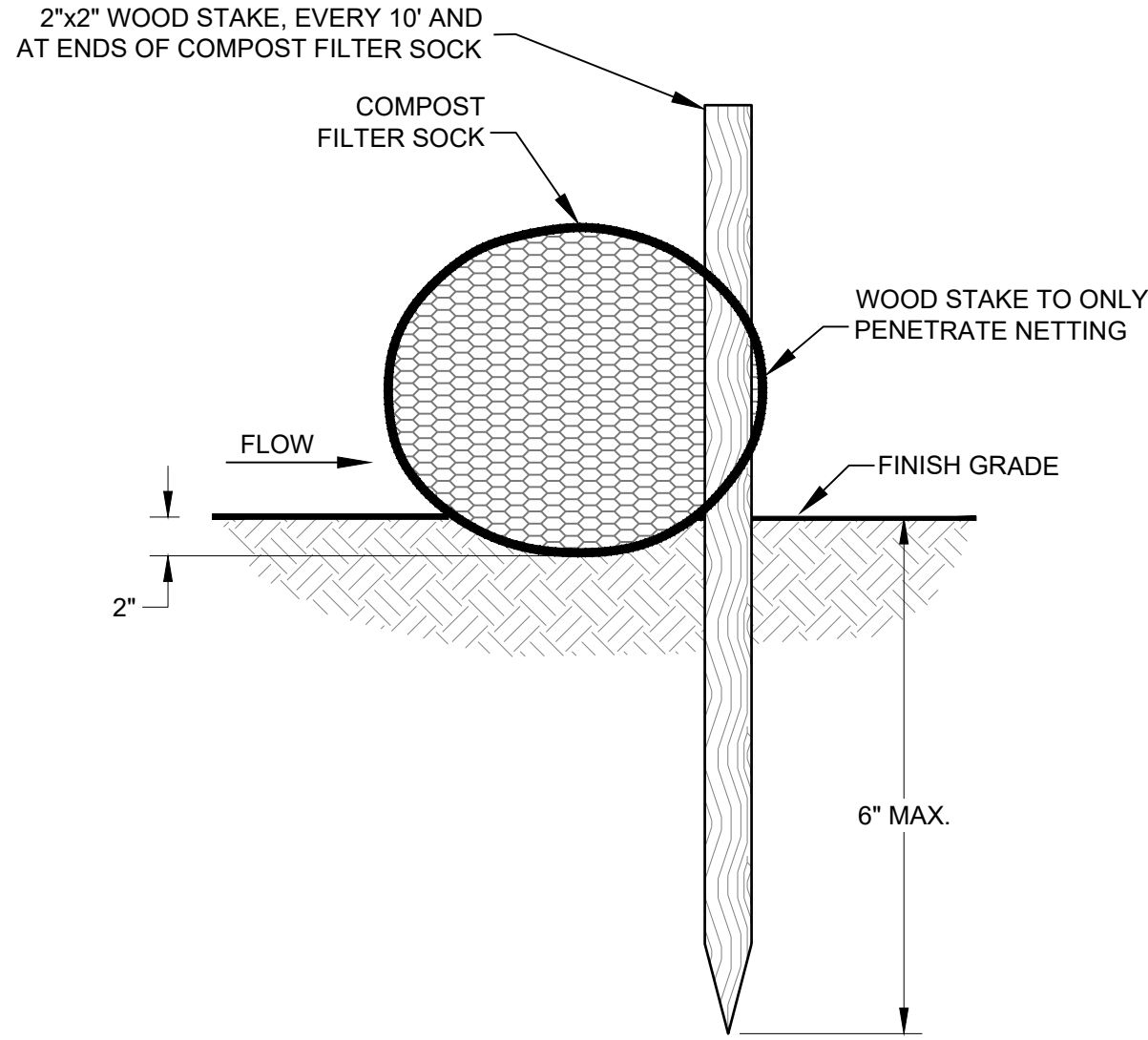
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MONTANTE XEROX SOLAR
DEVELOPMENT
DESIGN SUBMITTAL

139 CARACAS DRIVE
WEBSTER, NY

DETAILS

C-301



NOTES:

1. COMPOST FILTER SOCKS SHALL CONFORM TO THE NEW YORK STATES STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS, 2016.
2. COMPOST FILTER SOCKS SHALL BE A MINIMUM 12" DIAMETER.
3. COMPOST FILTER SOCKS SHALL BE INSTALLED ALONG A LEVEL GRADE WITH ENDS OVERLAPPING.
4. COMPOST FILTER SOCKS TO BE WESTERN GREEN STRAW WATTLE OR APPROVED EQUAL.
5. COMPOST FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS.
6. ROUTINELY INSPECT COMPOST FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING WATTLES IN A FUNCTIONAL CONDITION AT ALL TIMES.
7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE COMPOST FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
8. WHERE THE COMPOST FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
9. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
10. REMOVAL - COMPOST FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.
11. FILTER SOCK STAKES TO BE EMBEDDED A MAXIMUM OF 6" PER SPECIFIC REQUESTS FROM THE NYSDEC DIVISION OF ENVIRONMENTAL REMEDIATION.
12. UPON ACHIEVING FINAL STABILIZATION AND DURING FILTER SOCK REMOVAL, STAKES SHALL BE PULLED AND ANY RESULTING VOIDS SHALL BE BACKFILLED WITH CLEAN SOIL, AS NEEDED.

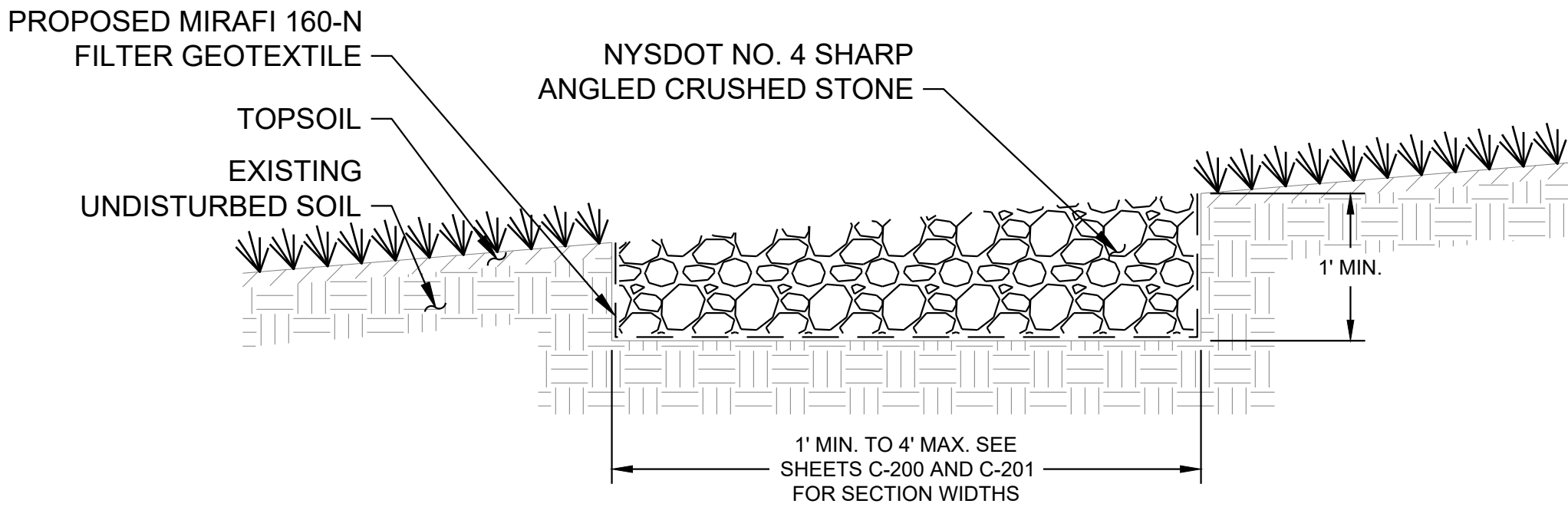
1

COMPOST FILTER SOCK

SCALE: NOT TO SCALE

NOTES:

1. GRAVEL FILL MATERIAL SHALL CONSIST OF NYSDOT NO. 4 CLEAN, DURABLE, SHARP ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02 SIZE DESIGNATION 4 OF TABLE 703-4.
2. TO MINIMIZE SEDIMENT ACCUMULATION IN THE GRAVEL DIAPHRAGM, THE GEOTEXTILE FABRIC SHALL BE WRAPPED OVER THE TOP UNTIL FINAL STABILIZATION IS ACHIEVED. THE FABRIC FOLD SHOULD ORIGINATE FROM THE UPGRADIENT SIDE.
3. THE GRAVEL DIAPHRAGM SHALL NOT BE DRIVEN UPON DURING SOLAR PANEL CONSTRUCTION ACTIVITIES UNLESS THE GRAVEL IS PROTECTED WITH A RIGID BARRIER SUCH AS PLYWOOD OR CONSTRUCTION EQUIPMENT IS CONSIDERED TO BE LOW GROUND PRESSURE EQUIPMENT TO MINIMIZE COMPACTION.
4. GRAVEL DIAPHRAGM IS TO BE INSTALLED ALONG THE CONTOUR AS SHOWN ON THESE DESIGN PLANS.
5. THE GRAVEL DIAPHRAGM SHALL NOT BE INSTALLED WITHIN THE LIMITS OF THE EXISTING CONSTRUCTION AND DEMOLITION (C&D) LANDFILL. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER TO VERIFY THE LIMITS OF THE C&D LANDFILL BEFORE GRAVEL DIAPHRAGM CONSTRUCTION. THE GRAVEL DIAPHRAGM SHALL BE OFFSET FROM THE C&D LANDFILL AS NECESSARY.



2

GRAVEL DIAPHRAGM DETAIL

SCALE: NOT TO SCALE

HALEY
ALDRICH

H & A OF NEW YORK
ENGINEERING AND GEOLOGY, LLP
260 E. Main Street, Suite 2100
Rochester, NY 14604
Tel: 585.359.9000
www.haleyaldrich.com

PREPARED FOR:

TM MONTANTE SOLAR
DEVELOPMENT, LLC

2760 KENMORE AVE #101
TONAWANDA, NY 14150

THIS IS A COLOR
DRAWING.
INFORMATION WILL
BE LOST IF
REPRODUCED IN
BLACK AND WHITE.

DRAFT

Project No.: 0205399
Scale: SHOWN
Date: DECEMBER 2025
Drawn By: SRG, JC
Designed By: SRG, JC
Checked By: SRG, ND
Approved By: ND
Stamp:

E	FOR REVIEW	H&A	12/11/25
D	FOR REVIEW	H&A	10/02/25
C	FOR REVIEW	H&A	09/17/25
B	FOR REVIEW	H&A	08/27/25
A	FOR REVIEW	H&A	08/11/25

MONTANTE XEROX SOLAR
DEVELOPMENT
DESIGN SUBMITTAL

139 CARACAS DRIVE
WEBSTER, NY

DETAILS

C-302

Sheet: 11 of 11

APPENDIX I
Federal and State Mapped Water Resources
USACE Permit Authorization
NYSDEC Confirmation Letter of No Wetland
Jurisdiction

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\0205389\Global\GIS\Maps\2024-10\0205389_002_0003_MAPPED_AQUATIC_RESOURCES_D3.mxd — USER: klodge — LAST SAVED: 10/31/2024 9:42:24 AM

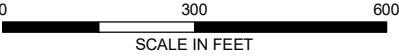


LEGEND

- STUDY AREA
- NYSDEC MAPPED STREAM
- NYSDEC MAPPED WETLAND
- NWI MAPPED WETLAND

NOTES

1. NYSDEC WETLAND DATA SOURCE: CORNELL GIS REPOSITORY
2. NWI WETLAND DATA SOURCE: U.S. FISH AND WILDLIFE SERVICE
3. AERIAL IMAGERY SOURCE: ESRI WORLD IMAGERY



**HALEY
ALDRICH**

TM MONTANTE SOLAR DEVELOPMENT LLC
XEROX LANDFILL SOLAR PROJECT
TOWN OF WEBSTER
MONROE COUNTY, NEW YORK

**FEDERAL AND STATE
MAPPED AQUATIC RESOURCES**

SCALE: AS SHOWN
OCTOBER 2024

FIGURE 3



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT
478 MAIN STREET
BUFFALO, NY 14202-3278

July 10, 2025

Regulatory Branch

SUBJECT: Transmittal Department of the Army No. LRB-2025-00319, Nationwide Permit No. 51 as Published in the Federal Register, Volume 86, No. 8 on Jan. 13, 2021.

TM Montante Solar Development, LLC
Katie Soscia
2760 Kenmore Ave
Tonawanda, NY 14150

Dear Ms. Soscia:

This pertains to your application for a Department of the Army permit to discharge fill material (3 ft. x 2 ft. x 2 ft. tall, geoballasts) into 0.03 acre of federally regulated wetlands and 0.01 acre of federally regulated ditches for the construction of a solar PV system on a 20 acre parcel located at 139 Caracas Drive in the Town of Webster, Monroe County New York. See Sheets 1-5 of 5 attached.

I have evaluated the impacts associated with your proposal, and have concluded that they are authorized by the enclosed Nationwide Permit (NWP) provided that the attached conditions are satisfied.

Verification of the applicability of this NWP is valid until March 14, 2026 unless the NWP is modified, suspended, revoked, or the activity complies with any subsequent permit modification. Please note in accordance with 33 CFR part 330.6(b), that if you commence or are under contract to commence an activity in reliance of the permit prior to the date this NWP expires, is suspended or revoked, or is modified such that the activity no longer complies with the terms and conditions, you have twelve months from the date of permit modification, expiration, or revocation to complete the activity under the present terms and conditions of the permit, unless the permit has been subject to the provisions of discretionary authority.

It is your responsibility to remain informed of changes to the NWP program. A public notice announcing any changes will be issued when they occur and will be available for viewing at our website: <http://www.lrb.usace.army.mil/Missions/Regulatory.aspx>. Finally, note that if your activity is not undertaken within the defined period or the project specifications have changed, you must immediately notify this office to determine the need for further approval or reverification.

Your initiation of work as authorized by the enclosed NWP acknowledges your acceptance of the general and special conditions contained therein. This affirmation is limited to the

Regulatory Branch

SUBJECT: Transmittal of Department of the Army No. LRB-2025-00319, Nationwide Permit No. 51 as Published in the Federal Register, Volume 86, No. 8 on Jan. 13, 2021.

attached NWP and associated WQC, and does not obviate the need to obtain any other project specific Federal, state, or local authorization. Specifically, you may need to obtain Article 15 (Protection of Water), Article 24 (Freshwater Wetland), and/or Article 34 (Coastal Erosion Management) authorization from the New York State DEC.

I have evaluated your submitted aquatic resource delineation map and have determined that the aquatic resource boundaries shown on the map accurately represent on-site conditions. Please note that this is a preliminary JD. Preliminary JDs are non-binding written indications that there may be waters of the United States (WOUS) on your parcel and approximate locations of those waters. Preliminary JDs are advisory in nature and may not be appealed.

Pursuant to Regulatory Guidance Letter 16-01, any permit application made in reliance on this preliminary JD will be evaluated as though all aquatic resources on the site are regulated by the Corps. Further, all aquatic resources will be used for purposes of assessing the extent of project related impacts and compensatory mitigation. If you require a definitive response regarding Department of the Army jurisdiction for any or all of the aquatic resources identified on the submitted drawings, you may request an approved JD from this office. If an approved JD is requested, please be aware that this is often a lengthy process and we may require the submittal of additional information.

I have enclosed the preliminary JD Form with this letter. The form and attached table identify the extent of aquatic resources on the site and specific terms and conditions of the preliminary JD. Please sign and return a copy of this form to my attention so that I may complete my evaluation of your file. If you do not respond within 15 days, I will presume concurrence and no additional follow-up is necessary prior to finalizing this action.

In accordance with Regulatory Guidance Letter 05-02, "Preliminary jurisdictional determinations are not definitive determinations of areas within regulatory jurisdiction and do not have expirations dates." However, I strongly recommend that the boundaries of all aquatic resources on the parcel be re-evaluated by a qualified wetland biologist after five years of the date of this letter. This will ensure that any changes are appropriately identified and you do not inadvertently incur a violation of Federal law while constructing your project or working on your project site.

Lastly, the delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

Regulatory Branch

SUBJECT: Transmittal of Department of the Army No. LRB-2025-00319, Nationwide Permit No. 51 as Published in the Federal Register, Volume 86, No. 8 on Jan. 13, 2021.

Questions pertaining to this matter should be directed to me at (716) 879-4121 by writing to the following address: U.S. Army Corps of Engineers Regulatory Branch 478 Main Street Buffalo NY 14202 or by e-mail at: Ernest.A.Francisco@usace.army.mil.

Sincerely,

A handwritten signature in cursive script that reads "Andy Francisco".

Andy Francisco
Biologist

Enclosures

cc: Thomas Robitaille, Haley & Aldrich of New York Engineering and Geology, LLP

U.S. Army Corps of Engineers (USACE) NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL		Form Approved - OMB No. 0710-0003 Expires 2027-10-31
For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.		
DATA REQUIRED BY THE PRIVACY ACT OF 1974		
Authority	The authorities for requesting this information are Sections 9, 10, 13, and 14, Rivers and Harbors Act of March 3, 1899; Section 404, Clean Water Act; and Section 103 Marine Protection Research and Sanctuaries Act of 1972.	
Principal Purpose	This information serves as notification to affected parties regarding the USACE administrative appeal options and process, as well as to facilitate requests for appeal of USACE decisions with which they disagree.	
Routine Uses	Routine uses will include: (a) To serve as notification to affected parties of the Corps administrative appeal options and process and to facilitate requests for appeal of Corps decisions with which they disagree. (b) Records may be referred to the Department of Justice for possible criminal prosecution. (c) Records may be referred to other Federal, State, and local agencies for evaluation and enforcement purposes.	
Disclosure	Disclosure of this information is voluntary on your part. However, failure of individual to provide requested information could result in inability to determine all pertinent information regarding a Department of the Army permit matter.	
The Agency Disclosure Notice (ADN)		
The Public reporting burden for this collection of information, 0710-0003, is estimated to average 1 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil . Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.		
PURPOSE: This form is used to facilitate the initiation of the administrative appeals process. The appeals process allows an affected party to pursue an administrative appeal of certain Corps of Engineers decisions with which they disagree.		
Upon release, this form will also be available on the Corps website https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/		
Applicant:	TM Montante Solar Development, LLC	File Number: LRB-2025-00319
		Date: 2025-07-10
Documents Attached (<i>select all that apply</i>):		Form Reference Section:
☐	INITIAL PROFFERED PERMIT (<i>Standard Permit or Letter of Permission</i>)	A
☐	PROFFERED PERMIT (<i>Standard Permit or Letter of Permission</i>)	B
☐	PERMIT DENIAL WITHOUT PREJUDICE	C
☐	PERMIT DENIAL WITH PREJUDICE	D
☐	APPROVED JURISDICTIONAL DETERMINATION	E
☒	PRELIMINARY JURISDICTIONAL DETERMINATION	F
SECTION I		
The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/appeals/ or Corps regulations at 33 CFR Part 331.		
A: INITIAL PROFFERED PERMIT: <i>You may accept or object to the permit</i> ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit. OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.		

B: PROFFERED PERMIT: *You may accept or appeal the permit*

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL WITHOUT PREJUDICE: *Not appealable*

You received a permit denial without prejudice because a required Federal, state, and/or local authorization and/or certification has been denied for activities which also require a Department of the Army permit before final action has been taken on the Army permit application. The permit denial without prejudice is not appealable. There is no prejudice to the right of the applicant to reinstate processing of the Army permit application if subsequent approval is received from the appropriate Federal, state, and/or local agency on a previously denied authorization and/or certification.

D: PERMIT DENIAL WITH PREJUDICE: *You may appeal the permit denial*

You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: APPROVED JURISDICTIONAL DETERMINATION: *You may accept or appeal the approved JD or provide new information for reconsideration*

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- **RECONSIDERATION:** You may request that the district engineer reconsider the approved JD by submitting new information or data to the district engineer within 60 days of the date of this notice. The district will determine whether the information submitted qualifies as new information or data that justifies reconsideration of the approved JD. A reconsideration request does not initiate the appeal process. You may submit a request for appeal to the division engineer to preserve your appeal rights while the district is determining whether the submitted information qualifies for a reconsideration.

F: PRELIMINARY JURISDICTIONAL DETERMINATION: *Not appealable*

You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision you may contact:		If you have questions regarding the appeal process, or to submit your request for appeal, you may contact:	
Name:	Andy Francisco	Name:	Suzanne Chubb, Regulatory Program Manager
Street Address, City, State:	USACE Buffalo District, Regulatory Branch 478 Main Street Buffalo, NY 14202	Street Address, City, State:	USACE, Great Lakes & Ohio River Division 550 Main Street, Room 10-780, CELRD-PD-O Cincinnati, Ohio 45202-3222
Phone:	716-879-4121	Phone:	(513) 218-1243
Email:	ernest.a.francisco@usace.army.mil	Email:	suzanne.l.chubb@usace.army.mil

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: *(Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. Use additional pages as necessary. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)*

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation and will have the opportunity to participate in all site investigations.

Email address of appellant and/or agent

Telephone number

Signature of appellant or agent

Date

BACKGROUND INFORMATION**A. REPORT COMPLETION DATE FOR PJD:** 10-JUL-2025**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:**

Soscia, Katie
 Tm Montante Solar Development Llc
 2760 Kenmore Ave
 Tonawanda, NY 14150

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

LRB, TM Montante Solar Development LLC - 139 Caracas Drive Solar Project , LRB-2025-00319

D. PROJECT LOCATION AND BACKGROUND INFORMATION:
(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: NY County/Parish/Borough: Monroe County City:

Center coordinates of site (lat/long in degree decimal format):

Lat.: 43.231944° Long.: -77.404167°

Universal Transverse Mercator: 18

Name of nearest waterbody: Fourmile Creek

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: July 8, 2025

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO
 REGULATORY JURISDICTION.

Site Number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
East Ditch	43.232926	-77.410216	225 feet	Non-wetland waters	Section 404
North Ditch A	43.233956	-77.411184	600 feet	Non-wetland waters	Section 404
North Ditch B	43.233746	-77.41087	185 feet	Non-wetland waters	Section 404
Stream KL3	43.234314	-77.412757	1625 feet	Non-wetland waters	Section 404
West Ditch	43.23292	-77.41298	260 feet	Non-wetland waters	Section 404
Wetland KLA	43.232952	-77.412837	0.27 acres	Wetland	Section 404
Wetland KLB	43.233481	-77.412002	0.94 acres	Wetland	Section 404
Wetland KLC	43.233886	-77.413172	0.93 acres	Wetland	Section 404
Wetland KLC (PEM)	43.23349	-77.41342	2.04 acres	Wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed

¹ Districts may establish timeframes for requester to return signed PJD forms. If the requester does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

the various types of JDs and their characteristics and circumstances when they may be appropriate.

- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD or no JD whatsoever, which do not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the USACE has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD or reliance on no JD whatsoever; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of USACE permit authorization based on a PJD or no JD whatsoever constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the USACE will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (*check all that apply*)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: Wetland Delineation Map included with Wetland Delineation Report, Haley & Aldrich, Nov. 6, 2024 (WDR).
- ☒ Data sheets prepared/submitted by or on behalf of the PJD requestor.
- ☒ Office concurs with data sheets/delineation report.
- ☐ Office does not concur with data sheets/delineation report. Rationale: _____.
- ☐ Data sheets prepared by the Corps: _____.
- ☐ Corps navigable waters' study: _____.
- ☐ U.S. Geological Survey Hydrologic Atlas: _____.

¹ Districts may establish timeframes for requester to return signed PJD forms. If the requester does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM 30-JUN-2024

☒ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: 1:24K, Webster.
☒ USDA Natural Resources Conservation Service Soil Survey. Citation:
WDR.
☒ National wetlands inventory map(s). Cite name: USACE ORM Data layer & WDR.
☐ State/Local Wetland Inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: . (National Geodetic Vertical Datum of 1929)
☐ Photographs: ☒ Aerial (Name & Date): Google Earth, all available years.
☐ or ☒ Other (Name & Date): WDR, Nov. 6, 2024.
☐ Previous determination(s). File no. and date of response letter: .
☐ Other information (please specify): .

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the USACE and should not be relied upon for later jurisdictional determinations.

Name of Regulatory Staff Member Completing PJD	Date	Signature of Regulatory Staff Member Completing PJD
Andy Francisco	July 10, 2025	<i>Andy Francisco</i>
Name of Person Requesting PJD	Date	Signature of Person Requesting PJD (REQUIRED, unless obtaining the Signature is Impracticable)

Andy Francisco

Signature of Regulatory Staff Member Completing PJD

Signature of Person Requesting PJD (REQUIRED, unless obtaining the signature is impracticable)¹

¹ Districts may establish timeframes for requester to return signed PJD forms. If the requester does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

COMPLETION FORM / COMPLIANCE CERTIFICATION

Each permittee who receives a Nationwide Permit (NWP) verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any compensatory mitigation.

APPLICANT:

Katie Soscia
TM Montante Solar
Development LLC
2760 Kenmore Ave
Tonawanda, NY 14150

POINT OF CONTACT:

Tom Robitaille
H & A of New York
Engineering and Geology, LLP
260 E Main Street, Suite 2100
Rochester, NY 14604

File No.: LRB-2025-00319

File Closed: July 10, 2025

NWP No.: 51

Upon completion of the activity authorized by this permit and any required compensatory mitigation sign this certification and return it to the address listed below within 30 days of project completion.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, revocation, and/or assessment of administrative penalties.

The permittee shall certify the completion of the authorized work and mitigation:

- a. The authorized work was done in accordance with the NWP authorization, including any general, regional, or activity specific conditions.
- b. The implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, this certification must include the documentation required by 33 CFR 332.3(1)(3) to confirm that the permittee secured the appropriate number and resource type of credits.

TM Montante Solar Development LLC; Katie
Soscia

Date

Permittee Telephone Number: _____

Project location: 139 Caracas Dr. Town of Webster, Monroe County, NY

Project Description: to discharge fill material (3 ft. x 2 ft. x 2 ft. tall, geoballasts) into 0.03 acre of federally regulated wetlands and 0.01 acre of federally regulated ditches for the construction of a solar PV system on a 20 acre parcel.

Authorized Impacts (Waters of the U.S. Impacted by Project): 0.04 acre total

Waterway and/or Project Setting: Fourmile Creek

Return completed form to: LRB.Regulatory.PermitCompliance@usace.army.mil (Preferred)

Or Mail to: Compliance Coordinator
Regulatory Branch
U.S. Army Corps of Engineers
478 Main St
Buffalo, NY 14202



LETTER OF NO JURISDICTION (Project) – FRESHWATER WETLANDS

August 7, 2025
James Pippen
Haley & Aldrich
260 E. Main Street, Suite 2100
Rochester, NY 14604

Sent via email to: JPIPPIN@HALEYALDRICH.COM

Re: DEC Freshwater Wetlands Project Jurisdictional Determination for
Xerox – Montante Solar Project located on Parcel no.065.02-1-40.111, Town of Webster,
Monroe County

Dear James Pippen,

After reviewing the wetland delineation and site-specific development plans 2024-1106 Xerox Landfill Solar Delineation, dated 6 November 2024 you submitted for the above referenced parcel(s), the New York State Department of Environmental Conservation (DEC) has determined that:

The project proposes no regulated activities within the boundary of state regulated freshwater wetlands and/or regulated adjacent areas. Therefore, in accordance with Article 24 of the Environmental Conservation Law (ECL) and 6 NYCRR Part 663, no freshwater wetlands permit is required for the project, as proposed.

This letter shall remain valid until August 5, 2030. After that date, the wetland boundary must be re-validated by DEC staff which may require modifications from the original flagged boundary if changes in wetland field conditions are observed. Any modifications may require a new survey to ensure jurisdictional wetlands and adjacent areas are accurately represented in relation to project plans.

Please note that this letter does not relieve you of the responsibility to obtain any necessary permits or approvals from other agencies or local municipalities.

Pursuant to ECL section 24-0301(4), there is a rebuttable presumption that mapped and unmapped areas meeting the definition of a freshwater wetland are regulated and subject to permit requirements. Should the project plan you submitted as part of your request be altered, a new project jurisdictional determination may be needed to determine whether a permit is required.

If you have questions regarding this determination, please email FWWjurisdiction@dec.ny.gov.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife and Marine Resources | Region 8 Bureau of Habitat
6274 East Avon-Lima Road | Avon, NY 14414-9516
Phone: (585) 226-2466 | Fax: (585) 226-2830

Freshwater Wetlands Determination

NAME James Phippen	WETLAND ID# As delineated by H&A, Xerox Property Tax ID 065.02-1-40.111	DATE INVESTIGATION CONDUCTED 8/7/2025
ORGANIZATION Haley & Aldrich	WETLAND LOCATION TOWN: Webster COUNTY: Monroe	
STREET ADDRESS 260 E. Main Street, suite 2100		
CITY - VILLAGE - TOWN Rochester	STATE NY	ZIP CODE 1464

RE: Wetlands KLA, KLB, and KLC Xerox Property Tax ID 065.02-1-40.111

This letter is in response to your inquiry regarding the applicability of Article 24 (Freshwater Wetland Act) regulations to the parcel of land in question. An investigation was conducted and, based on this determination, the Department of Environmental Conservation finds that the statements checked below apply to the subject property:

- ☐ A regulated Freshwater Wetland is located on or within 100 feet of this property, and regulated activities in the wetland or within the 100-foot adjacent area are subject to permit requirements.
- ☒ No regulated Freshwater Wetland is currently mapped on or within 100 feet of this property. Therefore, no New York Environmental Conservation Law Article 24 Freshwater Wetland permit is required at this time.
- ☐ The project, as described, is within 100 feet of a regulated wetland, and a wetland permit will be required prior to the commencement of the proposed project. Information about Freshwater Wetlands and regulated activities can be found on the Department's Freshwater Wetlands web page: <http://www.dec.ny.gov/lands/4937.html>
- ☐ The property contains a regulated wetland and/or is within 100 feet of a wetland boundary, but the described project is located outside the regulated area and will not require a wetland permit.
- ☐ Please contact the **U.S. Army Corps of Engineers (Buffalo office) at 716-879-4330** regarding any federally protected wetlands in the vicinity. <http://www.lrb.usace.army.mil/Missions/Regulatory.aspx>
- ☐ The boundary of the regulated wetland located on this property has been precisely delineated as follows:

This determination is to confirm the Wetland delineation submitted by Kim Lodge and James Pippin of Haley & Aldrich. The Lodge & Phippen study identifies 3 wetlands all within three wetlands (KLA, KLB, and KLC). BEH staff has completed a "desktop" evaluation of the proposed project area and determined that all three wetlands are within 50M of each other. The total acreage of the three delineated wetlands is 4.1ac. The wetland outside of the study area does not appear to be greater than 3ac for a total wetland acreage of approximately 7±ac.

The parcel Jurisdiction Determination for parcel - 065.02-1-40.111 indicate that there are regulated wetlands of unusual importance (Urban are) on the parcel. Regional staff has determined that the wetlands within the study/ project area are not within an urban area and all wetlands combined are less than 12.4 acers.

As the wetland are not 12.4ac in size and do not meet the unusual importance criteria it has been determine that the Department does not have Article 24 Freshwater Wetlands Jurisdiction of the wetlands identified as KLA, KLB, and KLC. This determination is valid for a period of 5 years (Through August 5, 2030).

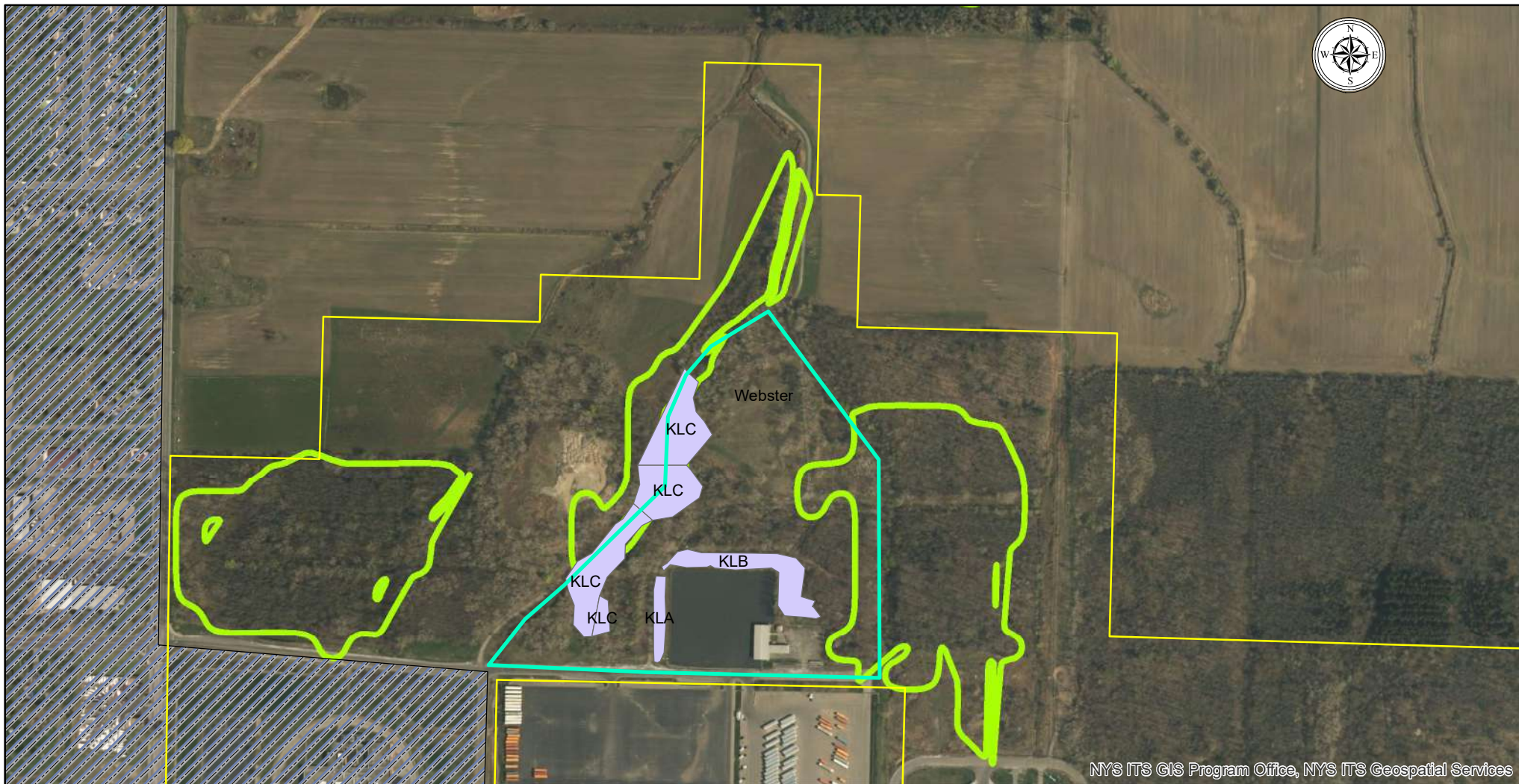
SIGNED:

08/07/2025

TITLE:

Biologist 2, R8 Manger BEH

Department wetland field delineations remain in effect for a period of five years, after which they are subject to revision at the Department's discretion, due to changing site conditions. Measurements of the 100-foot adjacent area are done *horizontally* upland from the wetland boundary, not along the ground surface. Identification of the adjacent-area boundary, if done, is the responsibility of the landowner or project sponsor.



Legend

- Xerox, Solar Site
- InformationalWetlandMapping_Region8_20250317
- Study Area
- Delineated_wetland

0 250 500 1,000 1,500 2,000 Feet

APPENDIX J
Spill Prevention and Response Plans
Preparedness, Prevention, and Contingency Plans

APPENDIX K
Stormwater Calculations and
Unified Stormwater Sizing Criteria (USSC)

DA-01

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 1.35 Acres

Increased Impervious Areas from Panels – 0.39 Acres (16982 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	1.35	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 29%

Precipitation (P) – 1"

Rv – 0.31"

Water Quality Volume – 0.03 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.02 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.97	1.96
Post-Development Peak Discharge Rate (cfs)	3	2.04
Percent Change	3	3.92

DA-02

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 1.24 Acres

Increased Impervious Areas from Panels – 0.55 Acres (24041 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	1.24	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 45%

Precipitation (P) – 1"

Rv – 0.45"

Water Quality Volume – 0.05 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.02 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	8.35	14.03
Post-Development Peak Discharge Rate (cfs)	8.35	14.03
Percent Change	0	0

DA-03

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.18 Acres

Increased Impervious Areas from Panels – 0.03 Acres (1427 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.18	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 18%

Precipitation (P) – 1"

Rv – 0.21"

Water Quality Volume – 0.003 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.001 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.19	0.39
Post-Development Peak Discharge Rate (cfs)	0.2	0.4
Percent Change	5	2.5

DA-04

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.16 Acres

Increased Impervious Areas from Panels – 0.03 Acres (1427 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.16	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 11%

Precipitation (P) – 1"

Rv – 0.15"

Water Quality Volume – 0.002 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.0008 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.14	0.29
Post-Development Peak Discharge Rate (cfs)	0.14	0.29
Percent Change	0	0

DA-05

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 3.65 Acres

Increased Impervious Areas from Panels – 1.38 Acres (60248 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	3.65	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 38%

Precipitation (P) – 1"

Rv – 0.39"

Water Quality Volume – 0.12 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.06 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	1.73	3.63
Post-Development Peak Discharge Rate (cfs)	1.8	3.7
Percent Change	3.89	1.89

DA-06

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.50 Acres

Increased Impervious Areas from Panels – 0.13 Acres (5868 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.5	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 38%

Precipitation (P) – 1"

Rv – 0.39"

Water Quality Volume – 0.12 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip and the use of a gravel diaphragm. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.006 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.47	0.97
Post-Development Peak Discharge Rate (cfs)	0.49	1.01
Percent Change	4.08	3.96

DA-06

GRAVEL DIAPHRAGM DESIGN

Water Quality Volume (WQv) for New Impervious Area Construction for Panels on Slopes $\geq 8\%$

Total Area to Be Treated by Gravel Diaphragm – 0.2 Acres

Increased Impervious Areas from Panels – 0.04 Acres (1681 sft)

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 19%

Precipitation (P) – 1"

Rv – 0.22"

Water Quality Volume – 0.004 Acre-feet (162 cft)

Gravel Diaphragm Dimensions – 2'(W) x 1'(D) x 133'(L)

Total Volume of Diaphragm – 266 cft

DA-07

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.68 Acres

Increased Impervious Areas from Panels – 0.27 Acres (11813 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.68	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 40%

Precipitation (P) – 1"

Rv – 0.41"

Water Quality Volume – 0.02 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip and the use of a gravel diaphragm. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.01 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.52	1.09
Post-Development Peak Discharge Rate (cfs)	0.54	1.11
Percent Change	3.70	1.8

DA-07

GRAVEL DIAPHRAGM DESIGN

Water Quality Volume (WQv) for New Impervious Area Construction for Panels on Slopes $\geq 8\%$

Total Area to Be Treated by Gravel Diaphragm – 0.15 Acres

Increased Impervious Areas from Panels – 0.06 Acres (2429 sft)

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 37%

Precipitation (P) – 1"

Rv – 0.39"

Water Quality Volume – 0.005 Acre-feet (209 cft)

Gravel Diaphragm Dimensions – 2'(W) x 1'(D) x 107'(L)

Total Volume of Diaphragm – 214 cft

DA-08

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 1.39 Acres

Increased Impervious Areas from Panels – 0.63 Acres (27304 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	1.39	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 45%

Precipitation (P) – 1"

Rv – 0.46"

Water Quality Volume – 0.05 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip and the use of a gravel diaphragm. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.03 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.42	0.88
Post-Development Peak Discharge Rate (cfs)	0.44	0.90
Percent Change	4.55	2.22

DA-08

GRAVEL DIAPHRAGM DESIGN

Water Quality Volume (WQv) for New Impervious Area Construction for Panels on Slopes $\geq 8\%$

Total Area to Be Treated by Gravel Diaphragm – 0.78 Acres

Increased Impervious Areas from Panels – 0.09 Acres (4027 sft)

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 12%

Precipitation (P) – 1"

Rv – 0.16"

Water Quality Volume – 0.01 Acre-feet (443 cft)

Gravel Diaphragm Dimensions – 4'(W) x 1'(D) x 124'(L)

Total Volume of Diaphragm – 496 cft

DA-09

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.63 Acres

Increased Impervious Areas from Panels – 0.13 Acres (27304 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.63	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 21%

Precipitation (P) – 1"

Rv – 0.24"

Water Quality Volume – 0.01 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip and the use of a gravel diaphragm. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.01 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.54	1.12
Post-Development Peak Discharge Rate (cfs)	0.56	1.14
Percent Change	3.57	1.75

DA-09

GRAVEL DIAPHRAGM DESIGN

Water Quality Volume (WQv) for New Impervious Area Construction for Panels on Slopes $\geq 8\%$

Total Area to Be Treated by Gravel Diaphragm – 0.18 Acres

Increased Impervious Areas from Panels – 0.007 Acres (325 sft)

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 4%

Precipitation (P) – 1"

Rv – 0.09"

Water Quality Volume – 0.001 Acre-feet (57 cft)

Gravel Diaphragm Dimensions – 1'(W) x 1'(D) x 151'(L)

Total Volume of Diaphragm – 151 cft

DA-10

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.29 Acres

Increased Impervious Areas from Panels – 0.05 Acres (2365 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0.06	19.8
D	77	0.29	80.2

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 76

% Impervious (I) – 19%

Precipitation (P) – 1"

Rv – 0.22"

Water Quality Volume – 0.01 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.002 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	0.11	0.23
Post-Development Peak Discharge Rate (cfs)	0.11	0.24
Percent Change	0	4.17

DA-11

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.08 Acres

Increased Impervious Areas from Panels – 0 Acres (0 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	0.08	100

Water Quality Volume (WQv) for New Impervious Area Construction

There is no increase in impervious area in this drainage area.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

There is no increase in impervious area in this drainage area.

Channel Protection Volume (CPv)

There is no increase in impervious area in this drainage area.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

There is no increase in impervious area in this drainage area.

DA-12

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 3.37 Acres

Increased Impervious Areas from Panels – 1.23 Acres (53459 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	3.37	100

Water Quality Volume (WQv) for New Impervious Area Construction

Composite Runoff Curve Number (RCN) – 77

% Impervious (I) – 36%

Precipitation (P) – 1"

Rv – 0.38"

Water Quality Volume – 0.11 Acre-feet

The water quality volume (WQv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025. WQv sizing for gravel diaphragm provided below.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

% Impervious (I) – 100% for calculating Rv

Rv – 0.95"

Runoff Reduction Factor (S) – 0.55 for HSG D

Runoff Reduction Volume (RRv) – 0.05 Acre-feet

The runoff reduction volume (RRv) is met through non-rooftop disconnected runoff through filter strip. Lengths of filter strips between solar panel tables is equal to or greater than the width of the proposed tables and meets the criteria set forth by the NYSDEC Solar Development Webinar July 28, 2025.

Channel Protection Volume (CPv)

There are no SMPs proposed for controlling CPv. CPv requirements are met through fulfilling the requirements of the RRv in accordance with NYSDEC Stormwater Manual 2024.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

The proposed development will not alter hydrology from pre-construction conditions to post-construction conditions according to the definition of "alter hydrology" in Appendix A of the General Permit. See HydroCAD outputs in this Appendix for SCS TR-20 calculations for peak discharge rates.

	10-year	100-Year
Pre-Development Peak Discharge Rate (cfs)	1.42	3.06
Post-Development Peak Discharge Rate (cfs)	1.49	3.14
Percent Change	4.70	2.55

DA-13

UNIFIED STORMWATER SIZING CRITERIA (NYSDEC STORMWATER MANUAL 2024)

Total Area – 0.81 Acres

Increased Impervious Areas from Construction Activities – 0 Acres (0 sft)

HSG	RCN	Area (Acres)	Percent
A	38	0	0
B	55	0	0
C	70	0	0
D	77	3.37	100

Water Quality Volume (WQv) for New Impervious Area Construction

There is no increase in impervious area in this drainage area.

Runoff Reduction Volume (RRv) for New Impervious Area Construction

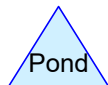
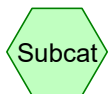
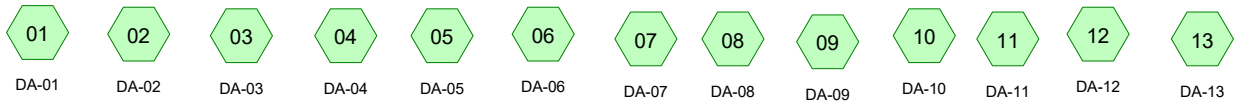
There is no increase in impervious area in this drainage area.

Channel Protection Volume (CPv)

There is no increase in impervious area in this drainage area.

Overbank Flood Protection (Qp) and Extreme Flood (Qf)

There is no increase in impervious area in this drainage area.



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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	Type II 24-hr		Default	24.00	1	1.87	2
2	2-yr	Type II 24-hr		Default	24.00	1	2.20	2
3	10-yr	Type II 24-hr		Default	24.00	1	3.16	2
4	100-yr	Type II 24-hr		Default	24.00	1	4.70	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.540	98	Paved parking, HSG D (02, 12, 13)
2.620	70	Woods, Good, HSG C (12)
11.398	77	Woods, Good, HSG D (01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12)
0.400	79	Woods/grass comb., Good, HSG D (13)
16.958	79	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
2.620	HSG C	12
14.338	HSG D	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13
0.000	Other	
16.958		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	2.540	0.000	2.540	Paved parking	02, 12, 13
0.000	0.000	2.620	11.398	0.000	14.018	Woods, Good	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12
0.000	0.000	0.000	0.400	0.000	0.400	Woods/grass comb., Good	13
0.000	0.000	2.620	14.338	0.000	16.958	TOTAL AREA	

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	02	0.00	0.00	40.0	0.0100	0.011	0.0	18.0	0.0	

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Type II 24-hr 1-yr Rainfall=1.87"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>0.33" Flow Length=235' Tc=46.6 min CN=77 Runoff=0.25 cfs 0.037 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>0.79" Flow Length=916' Tc=7.6 min CN=88 Runoff=3.74 cfs 0.172 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=100' Slope=0.0700 '/' Tc=27.3 min CN=77 Runoff=0.05 cfs 0.005 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=100' Slope=0.0350 '/' Tc=36.0 min CN=77 Runoff=0.04 cfs 0.004 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>0.31" Flow Length=494' Tc=113.0 min CN=77 Runoff=0.47 cfs 0.121 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=179' Tc=32.5 min CN=77 Runoff=0.12 cfs 0.014 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=330' Tc=41.0 min CN=77 Runoff=0.14 cfs 0.018 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>0.32" Flow Length=417' Tc=58.0 min CN=77 Runoff=0.11 cfs 0.018 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=150' Slope=0.0740 '/' Tc=37.0 min CN=77 Runoff=0.14 cfs 0.017 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.31" Flow Length=200' Tc=112.5 min CN=77 Runoff=0.03 cfs 0.008 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.33" Flow Length=62' Slope=0.0215 '/' Tc=29.9 min CN=77 Runoff=0.08 cfs 0.008 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>0.28" Flow Length=733' Tc=113.9 min CN=76 Runoff=0.36 cfs 0.097 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>0.85" Tc=5.0 min CN=89 Runoff=1.36 cfs 0.058 af

Total Runoff Area = 16.958 ac Runoff Volume = 0.577 af Average Runoff Depth = 0.41"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 01: DA-01

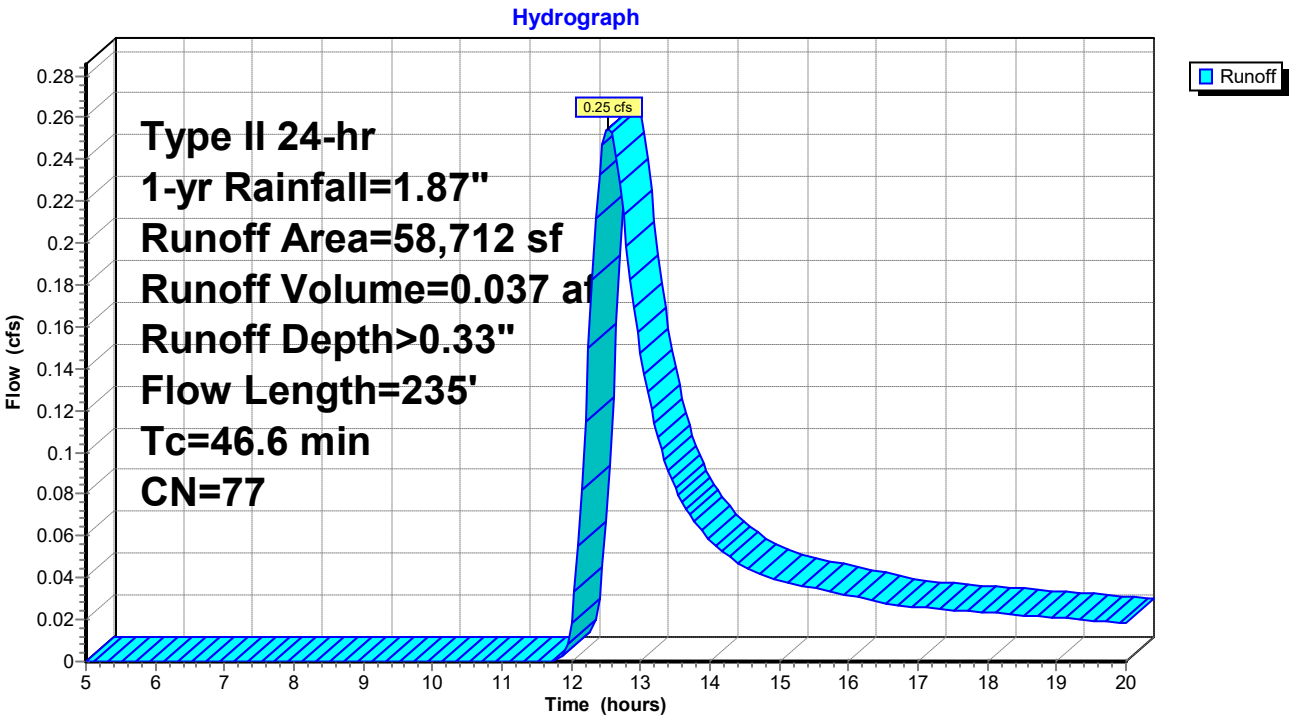
Runoff = 0.25 cfs @ 12.53 hrs, Volume= 0.037 af, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (sf)	CN	Description
58,712	77	Woods, Good, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
45.1	150	0.0450	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.6	235	Total			

Subcatchment 01: DA-01



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Summary for Subcatchment 02: DA-02

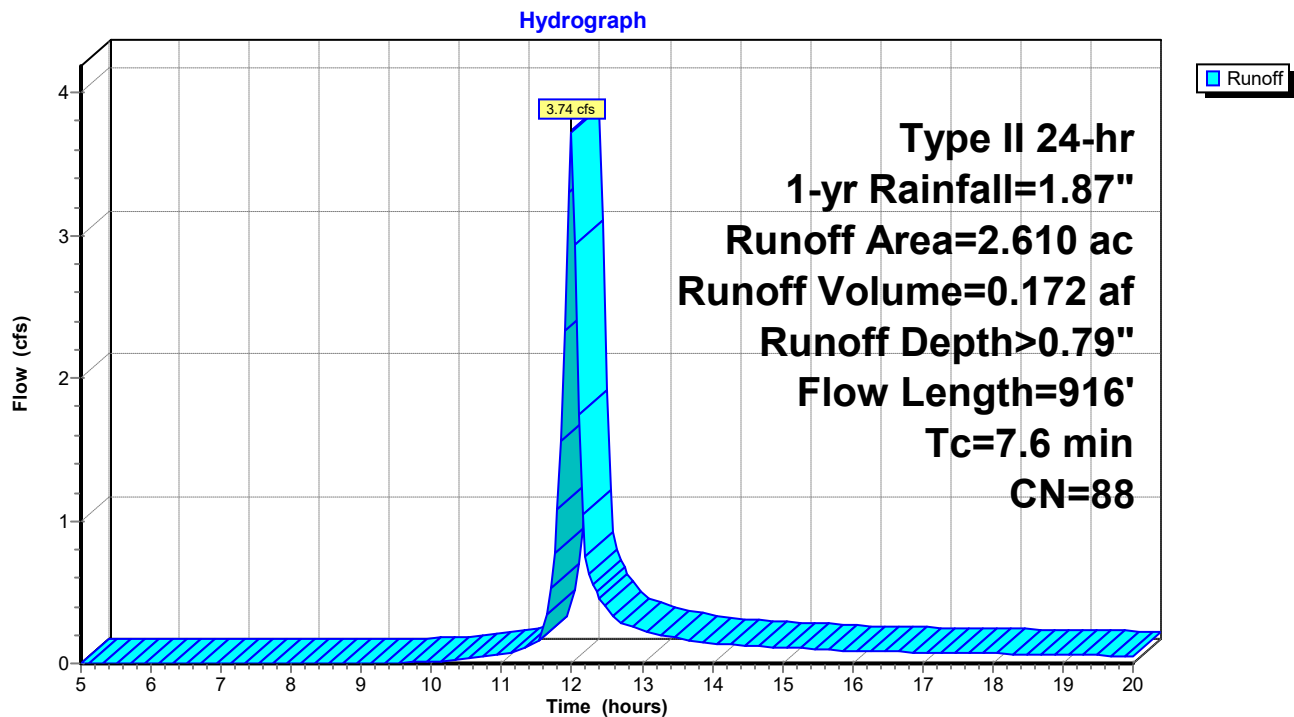
Runoff = 3.74 cfs @ 11.99 hrs, Volume= 0.172 af, Depth> 0.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
1.240	77	Woods, Good, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 03: DA-03

Runoff = 0.05 cfs @ 12.26 hrs, Volume= 0.005 af, Depth> 0.33"

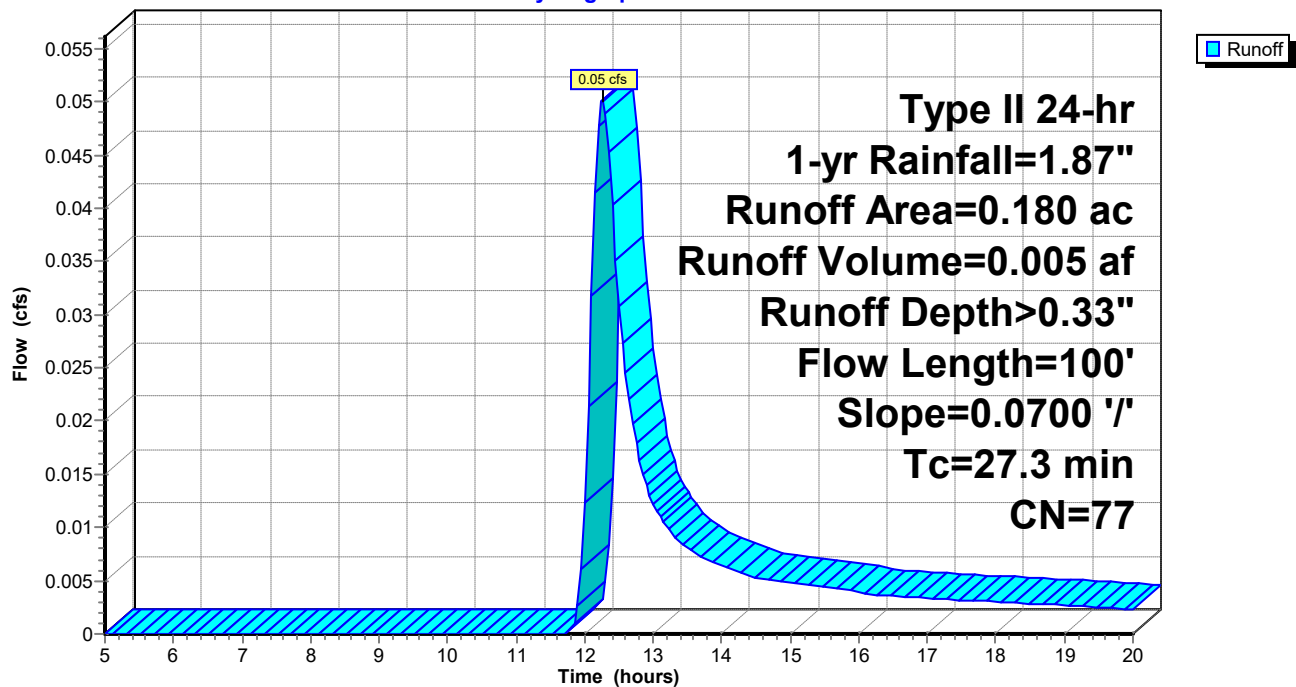
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.180	77	Woods, Good, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0700	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



Summary for Subcatchment 04: DA-04

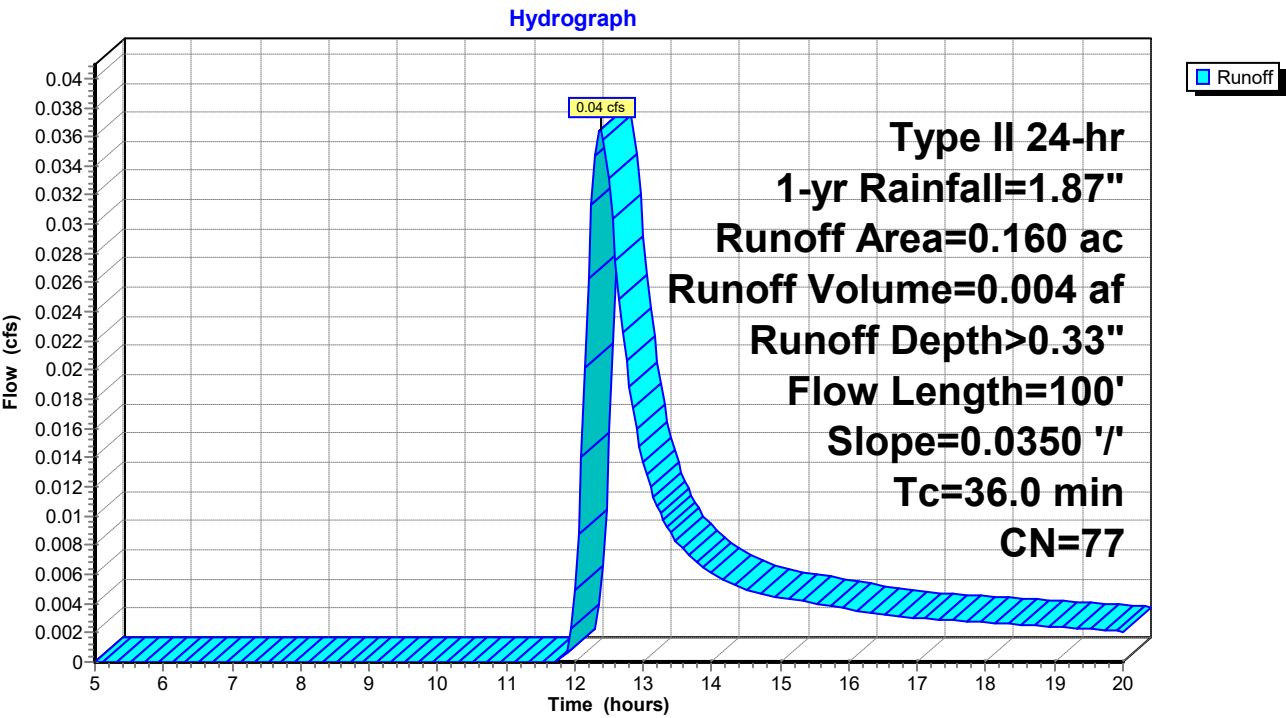
Runoff = 0.04 cfs @ 12.37 hrs, Volume= 0.004 af, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.160	77	Woods, Good, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.0	100	0.0350	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 05: DA-05

Runoff = 0.47 cfs @ 13.47 hrs, Volume= 0.121 af, Depth> 0.31"

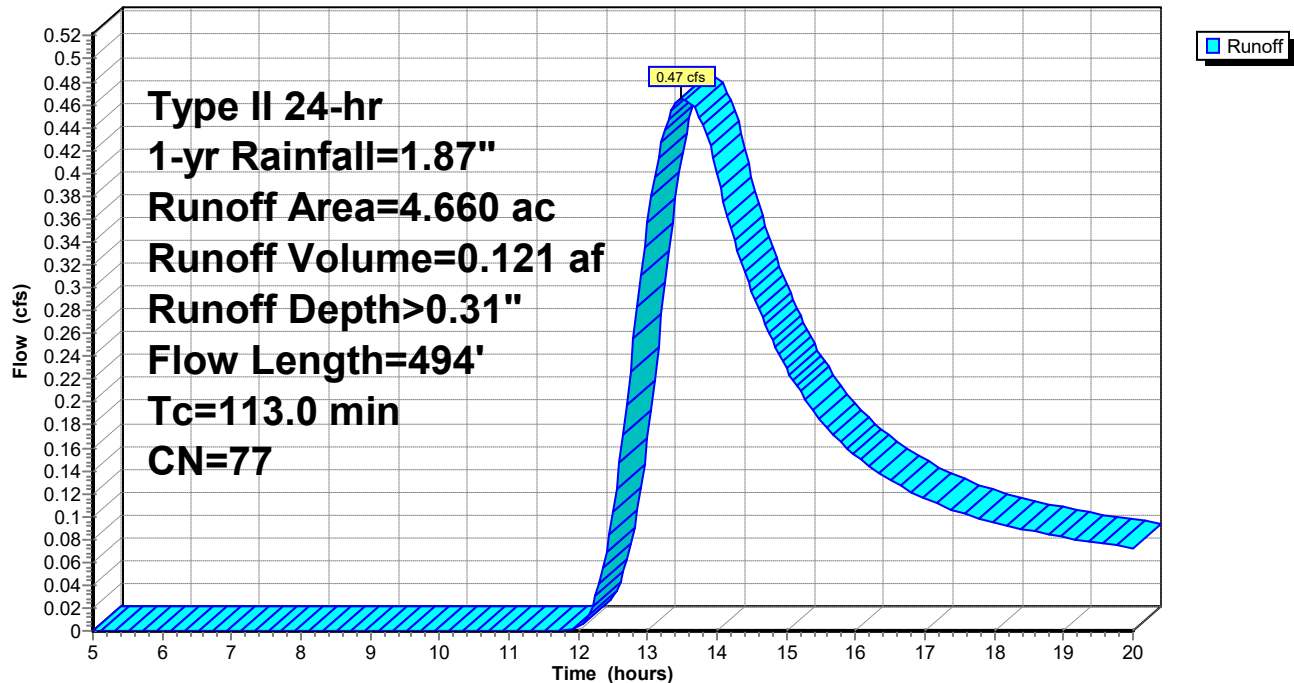
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
4.660	77	Woods, Good, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.3	150	0.0075	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
113.0	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 06: DA-06

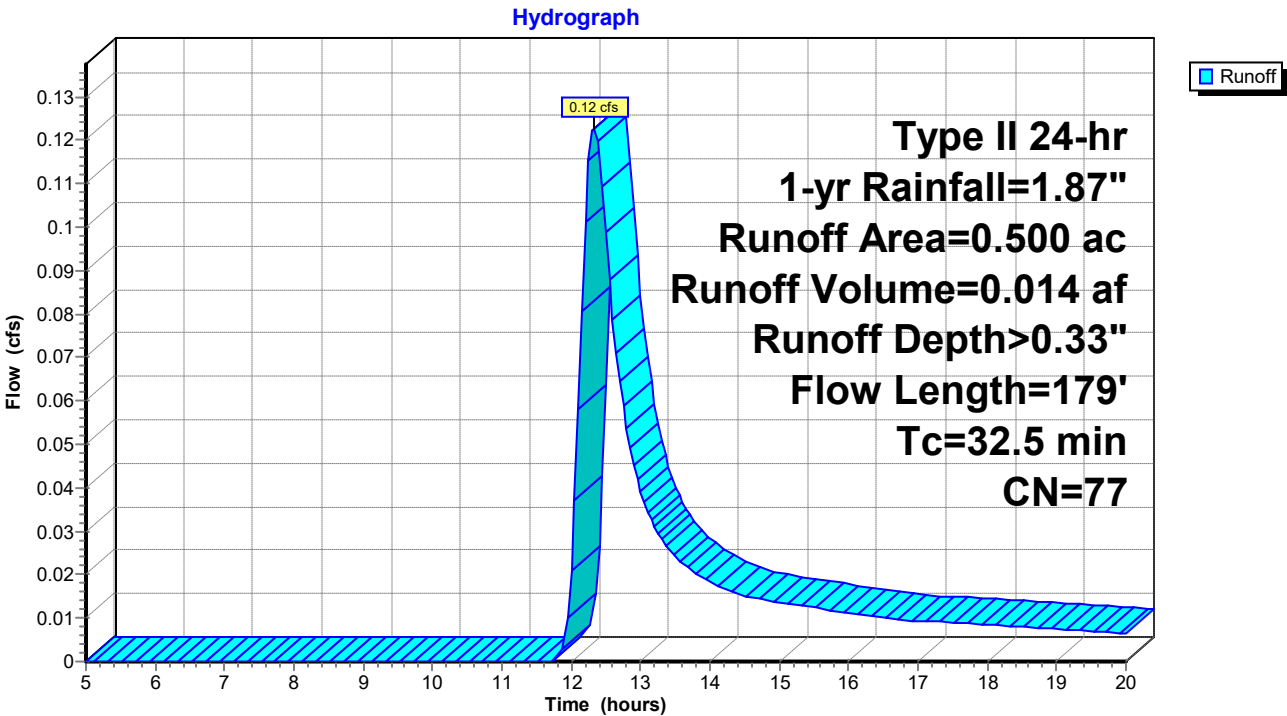
Runoff = 0.12 cfs @ 12.33 hrs, Volume= 0.014 af, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.500	77	Woods, Good, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 07: DA-07

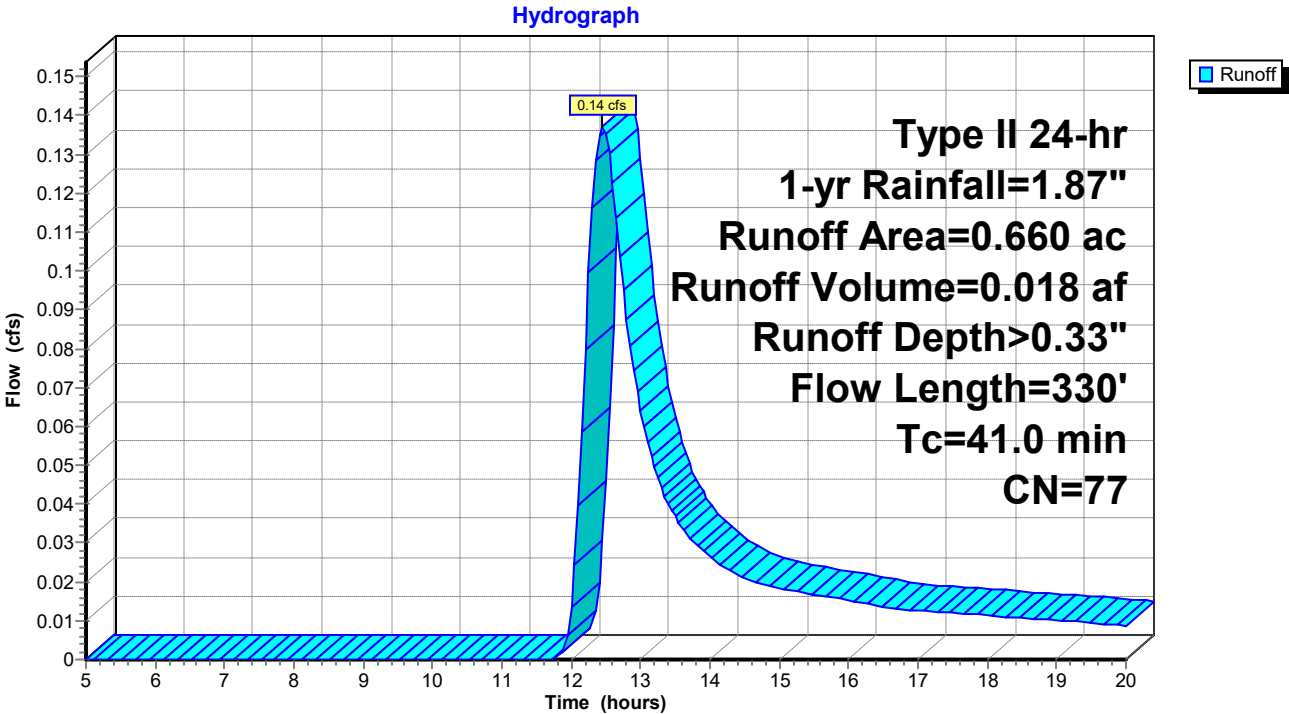
Runoff = 0.14 cfs @ 12.45 hrs, Volume= 0.018 af, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.660	77	Woods, Good, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	150	0.0750	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
41.0	330	Total			

Subcatchment 07: DA-07



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 08: DA-08

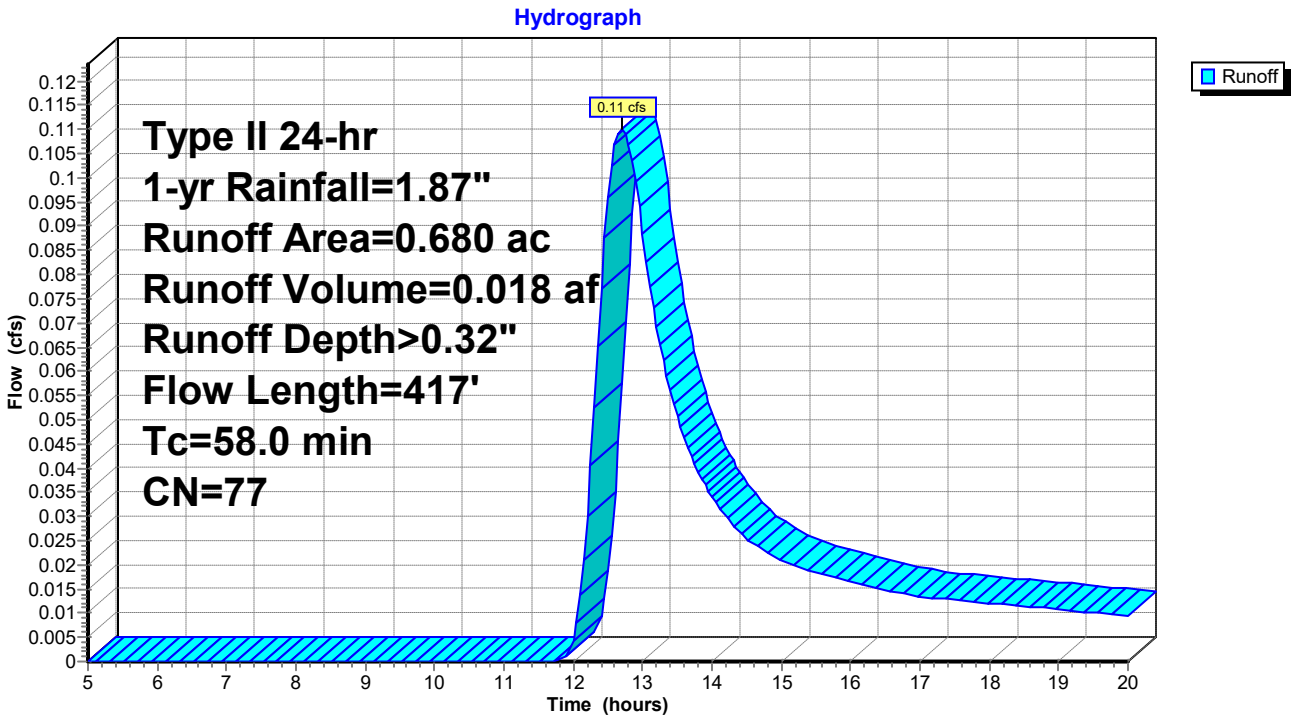
Runoff = 0.11 cfs @ 12.70 hrs, Volume= 0.018 af, Depth> 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.680	77	Woods, Good, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.7	150	0.0320	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
58.0	417	Total			

Subcatchment 08: DA-08



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 09: DA-09

Runoff = 0.14 cfs @ 12.39 hrs, Volume= 0.017 af, Depth> 0.33"

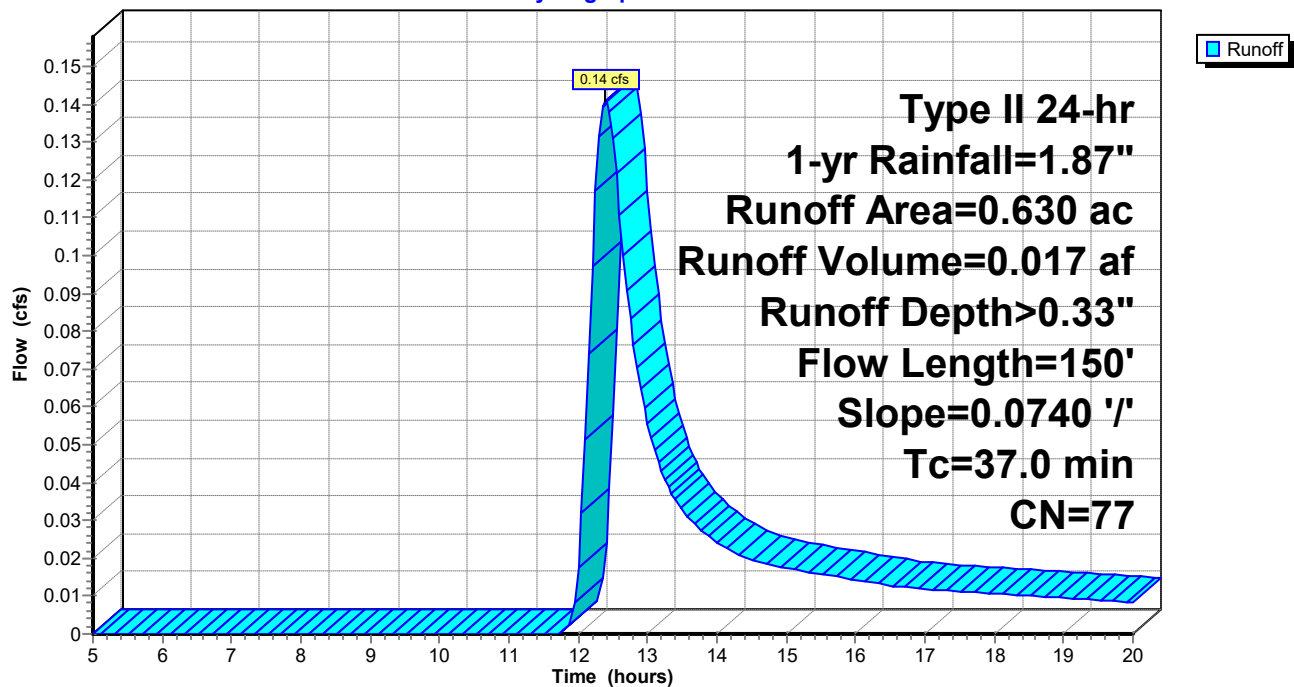
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.630	77	Woods, Good, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.0	150	0.0740	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 10: DA-10

Runoff = 0.03 cfs @ 13.48 hrs, Volume= 0.008 af, Depth> 0.31"

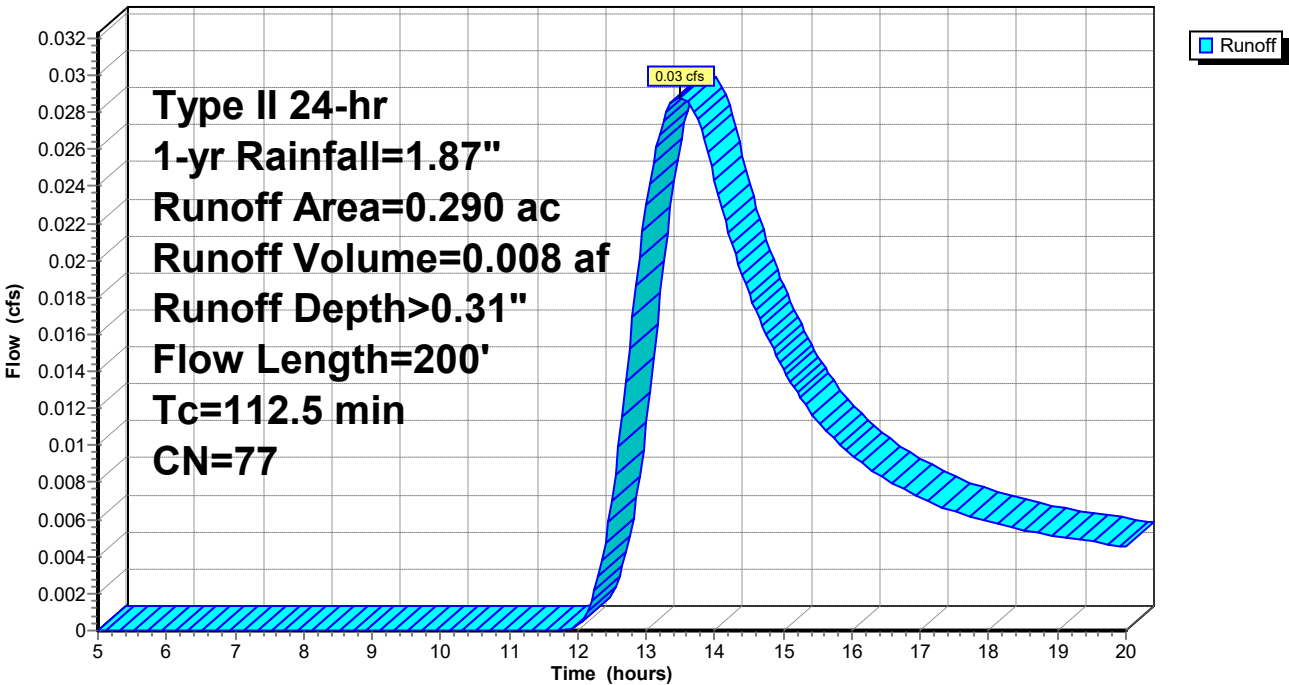
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 11: DA-11

Runoff = 0.08 cfs @ 12.29 hrs, Volume= 0.008 af, Depth> 0.33"

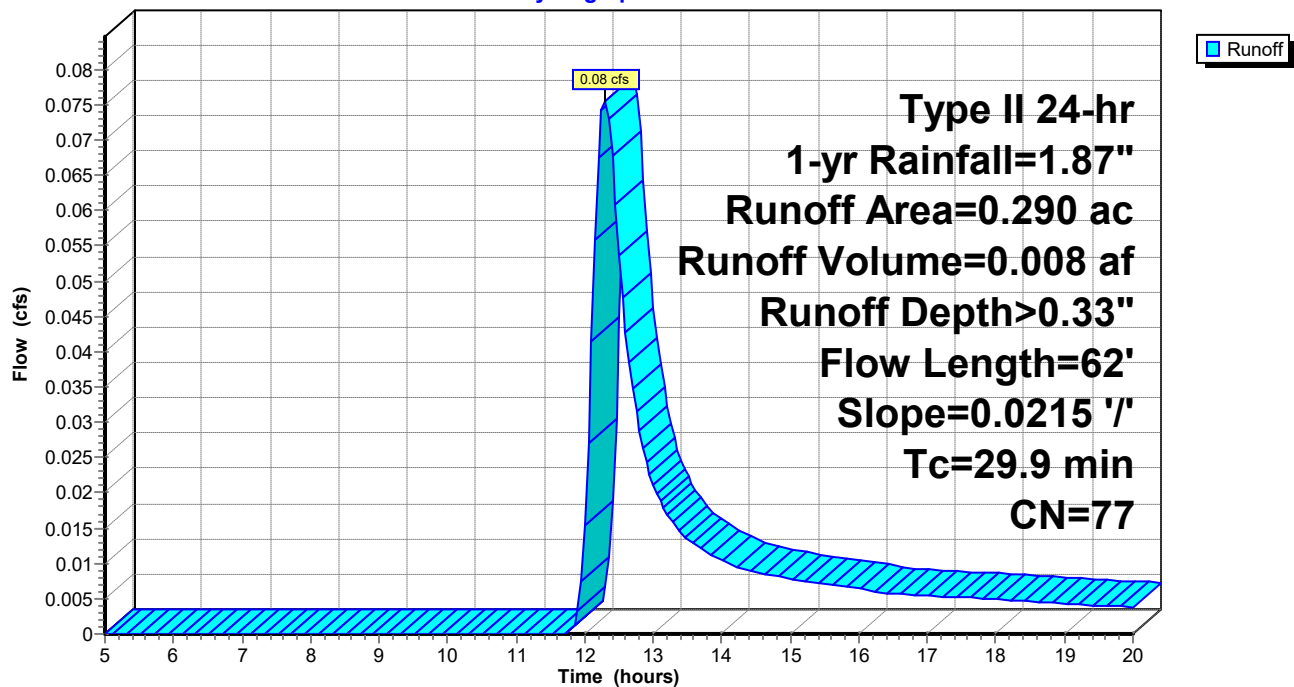
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.9	62	0.0215	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



Pre-Dev

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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 12: DA-12

Runoff = 0.36 cfs @ 13.55 hrs, Volume= 0.097 af, Depth> 0.28"

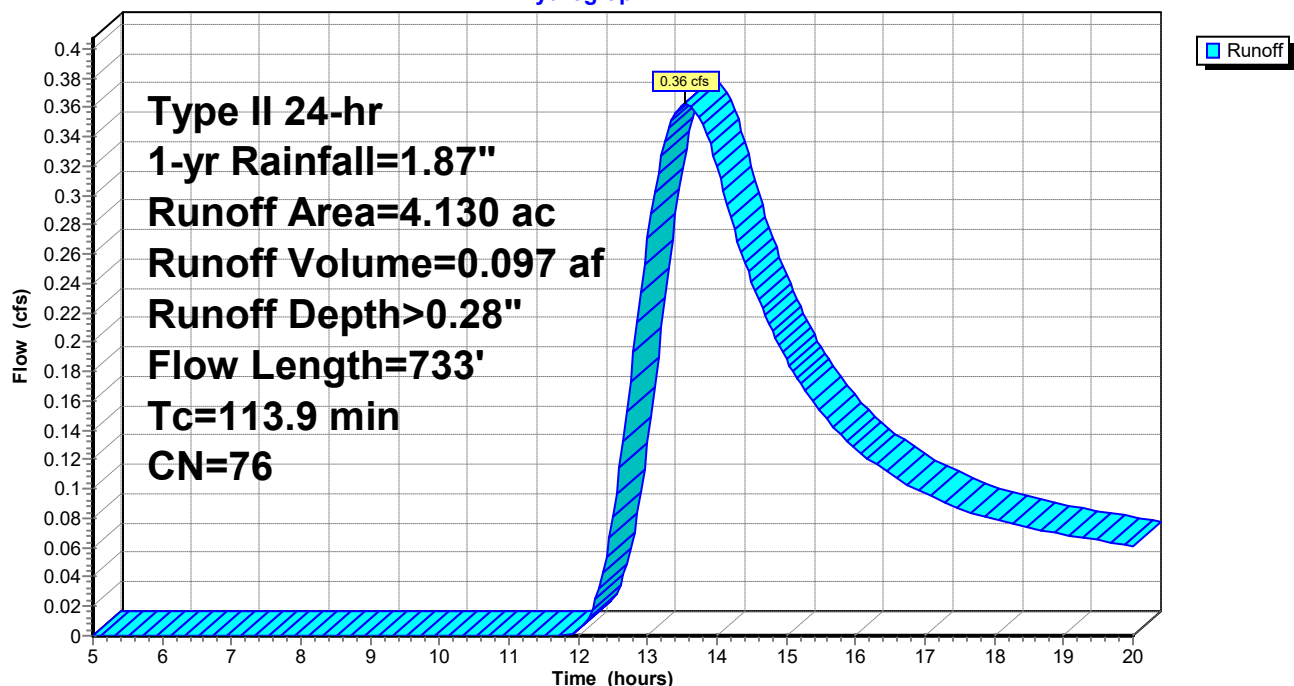
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	77	Woods, Good, HSG D
2.620	70	Woods, Good, HSG C
4.130	76	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.8	150	0.0074	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
113.9	733	Total			

Subcatchment 12: DA-12

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 1.36 cfs @ 11.96 hrs, Volume= 0.058 af, Depth> 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs

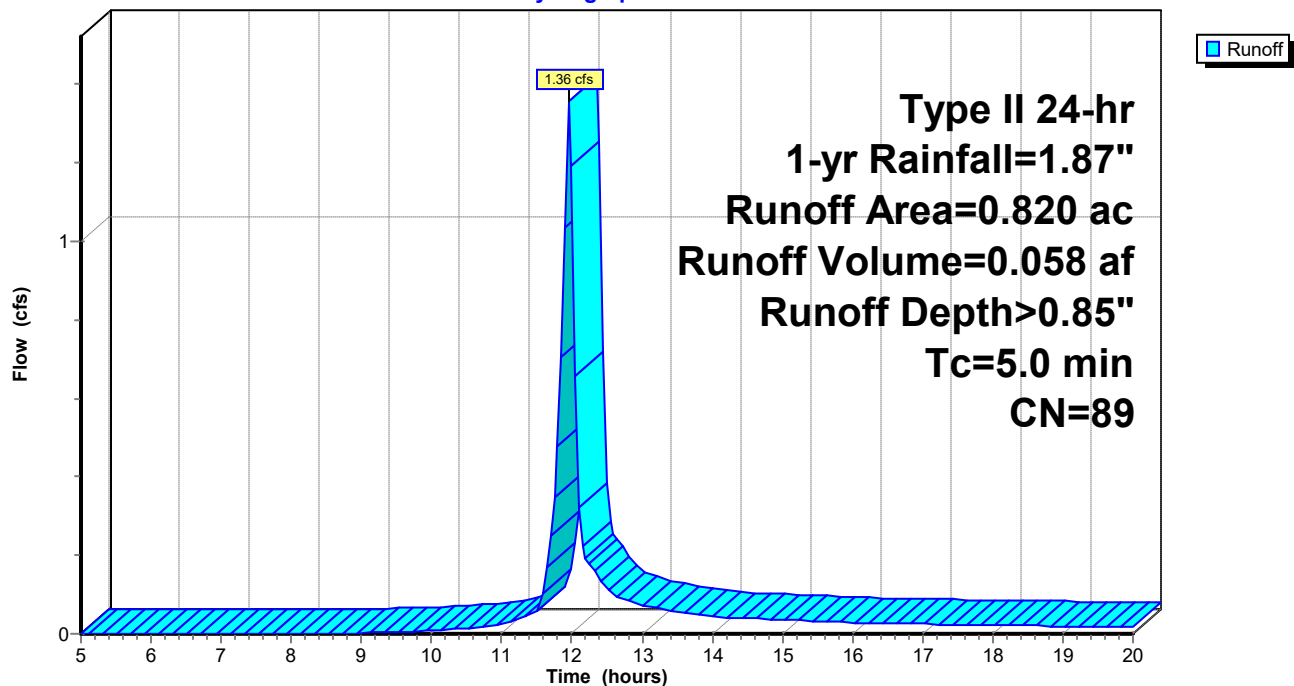
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>0.49" Flow Length=235' Tc=46.6 min CN=77 Runoff=0.41 cfs 0.055 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>1.04" Flow Length=916' Tc=7.6 min CN=88 Runoff=4.88 cfs 0.226 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=100' Slope=0.0700 '/' Tc=27.3 min CN=77 Runoff=0.08 cfs 0.007 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=100' Slope=0.0350 '/' Tc=36.0 min CN=77 Runoff=0.06 cfs 0.007 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>0.47" Flow Length=494' Tc=113.0 min CN=77 Runoff=0.74 cfs 0.181 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=179' Tc=32.5 min CN=77 Runoff=0.20 cfs 0.020 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=330' Tc=41.0 min CN=77 Runoff=0.22 cfs 0.027 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>0.48" Flow Length=417' Tc=58.0 min CN=77 Runoff=0.18 cfs 0.027 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=150' Slope=0.0740 '/' Tc=37.0 min CN=77 Runoff=0.23 cfs 0.026 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.47" Flow Length=200' Tc=112.5 min CN=77 Runoff=0.05 cfs 0.011 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.49" Flow Length=62' Slope=0.0215 '/' Tc=29.9 min CN=77 Runoff=0.12 cfs 0.012 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>0.43" Flow Length=733' Tc=113.9 min CN=76 Runoff=0.59 cfs 0.149 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>1.11" Tc=5.0 min CN=89 Runoff=1.76 cfs 0.076 af

Total Runoff Area = 16.958 ac Runoff Volume = 0.824 af Average Runoff Depth = 0.58"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

Pre-Dev

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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 01: DA-01

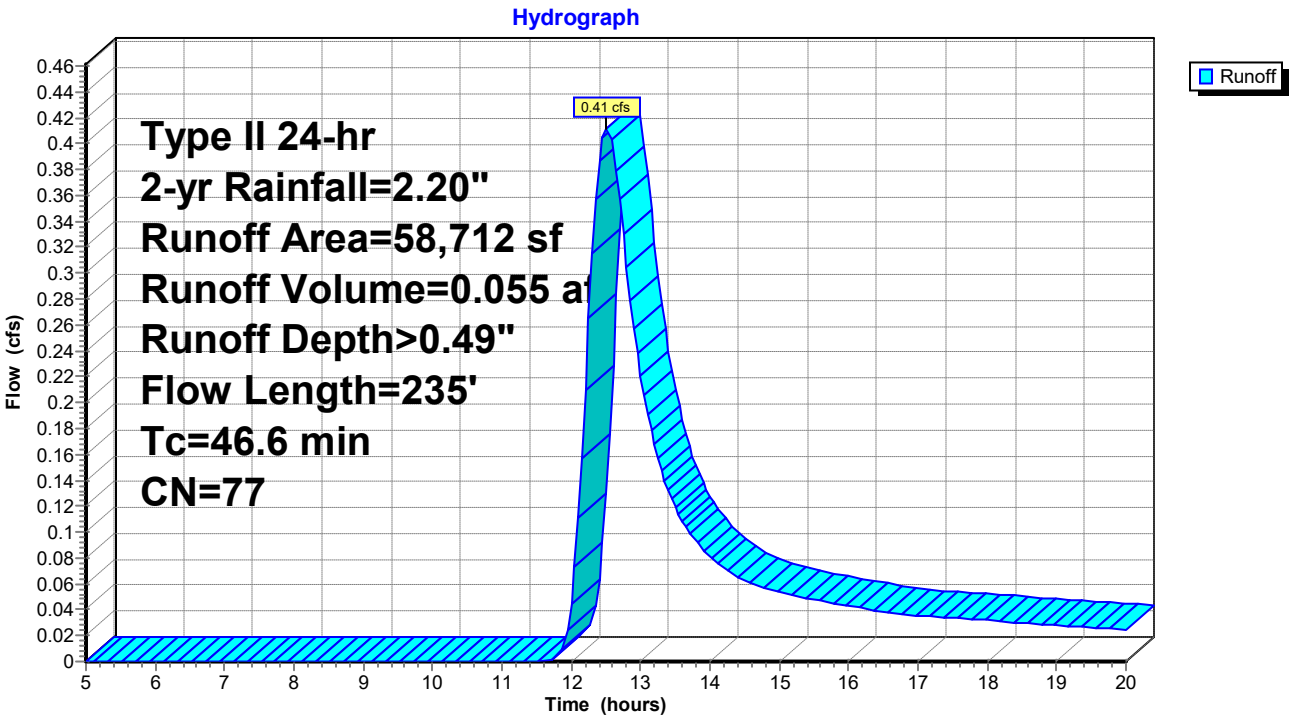
Runoff = 0.41 cfs @ 12.51 hrs, Volume= 0.055 af, Depth> 0.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (sf)	CN	Description
58,712	77	Woods, Good, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
45.1	150	0.0450	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.6	235	Total			

Subcatchment 01: DA-01



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 02: DA-02

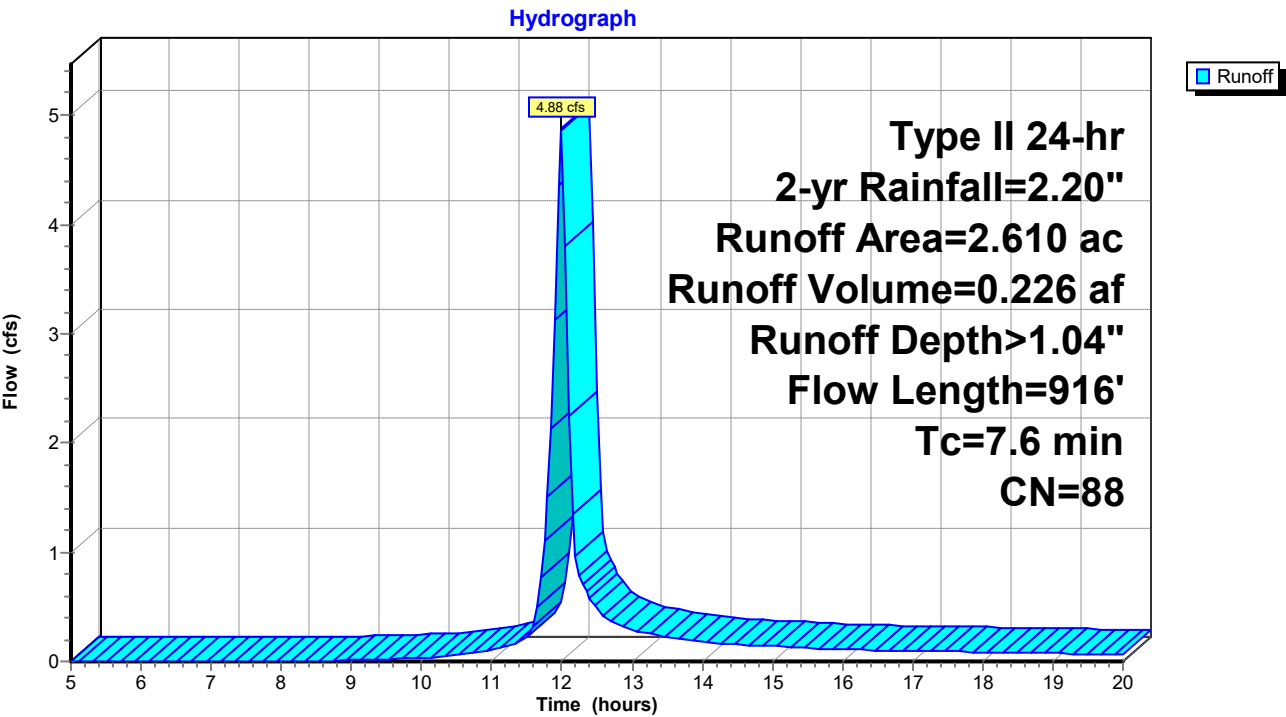
Runoff = 4.88 cfs @ 11.99 hrs, Volume= 0.226 af, Depth> 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
1.240	77	Woods, Good, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 03: DA-03

Runoff = 0.08 cfs @ 12.24 hrs, Volume= 0.007 af, Depth> 0.49"

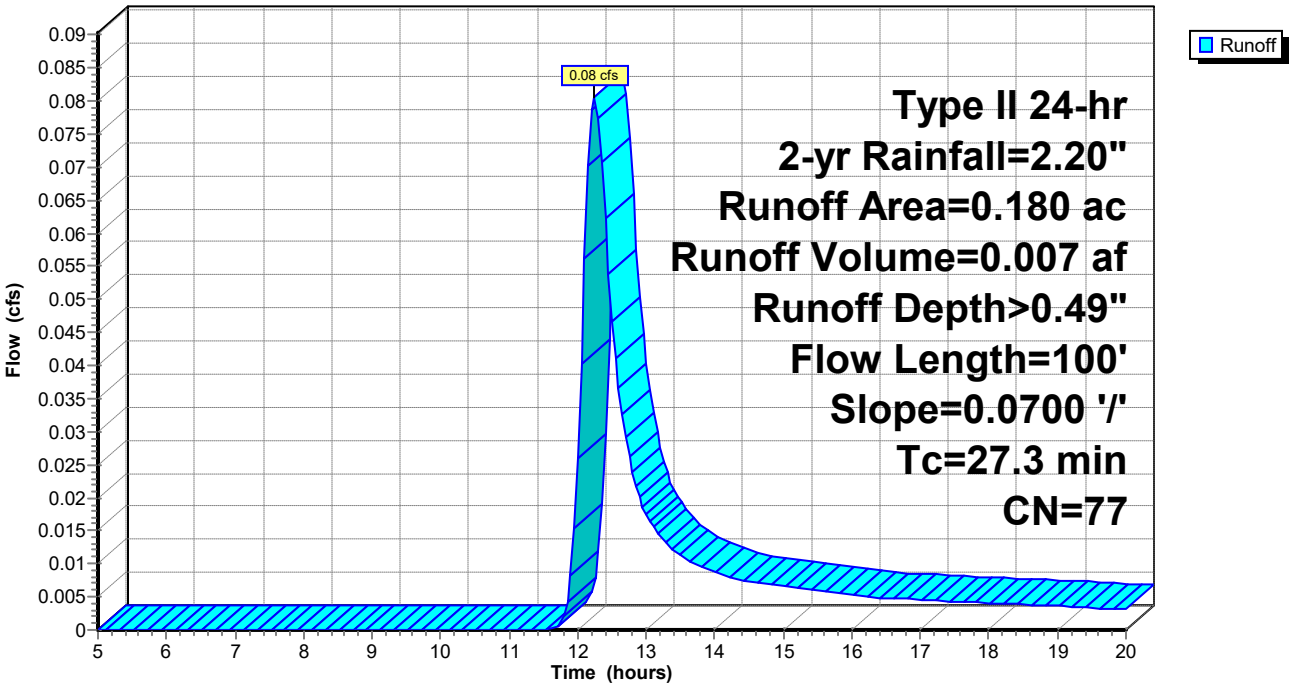
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.180	77	Woods, Good, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0700	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 04: DA-04

Runoff = 0.06 cfs @ 12.36 hrs, Volume= 0.007 af, Depth> 0.49"

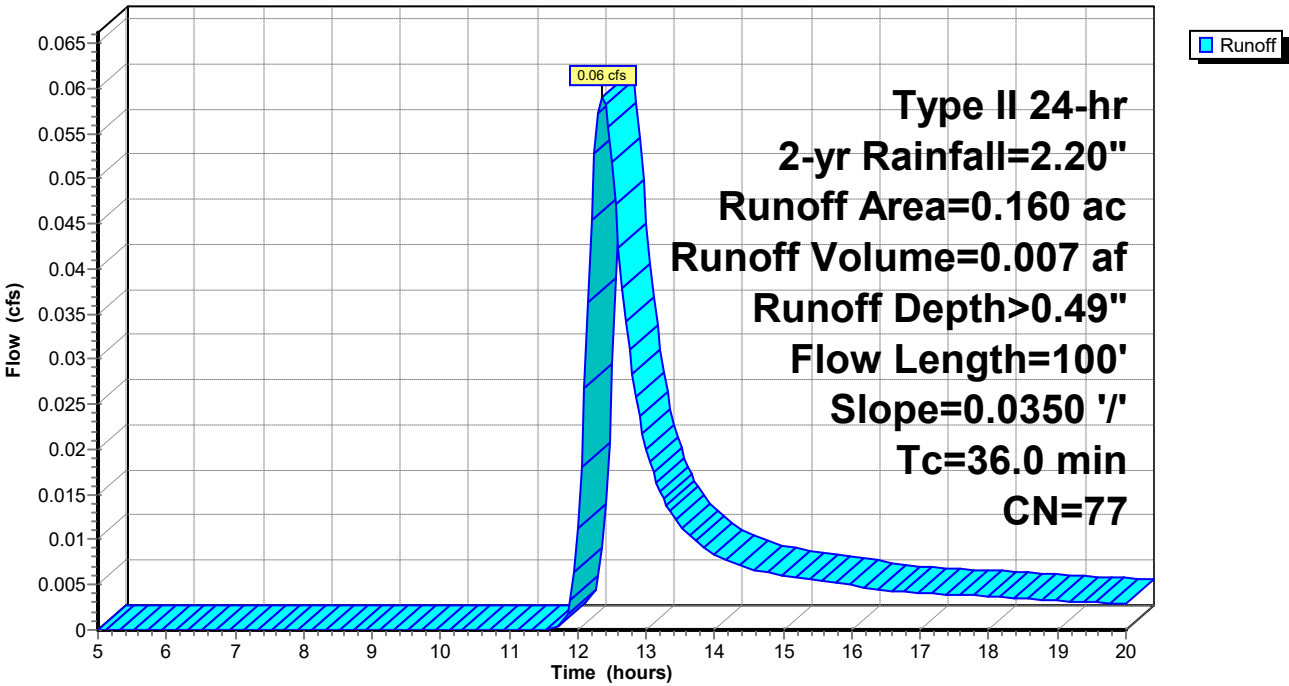
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.160	77	Woods, Good, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.0	100	0.0350	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 05: DA-05

Runoff = 0.74 cfs @ 13.45 hrs, Volume= 0.181 af, Depth> 0.47"

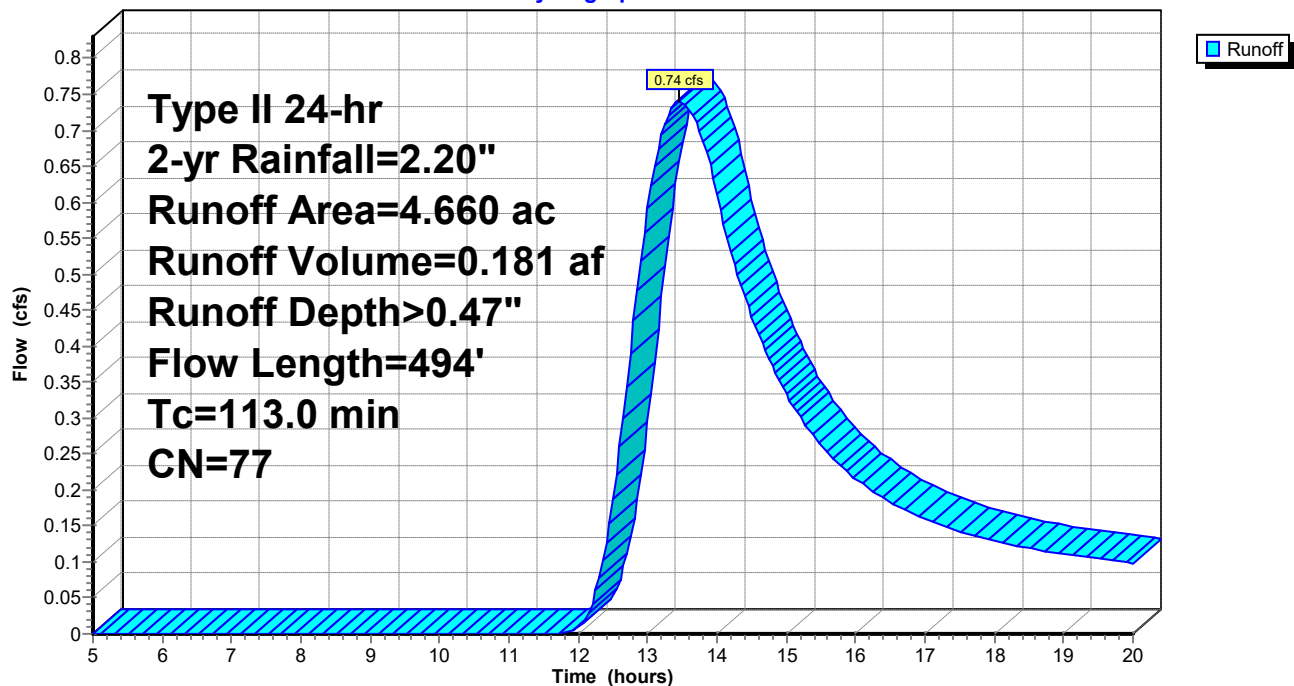
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
4.660	77	Woods, Good, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.3	150	0.0075	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
113.0	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 06: DA-06

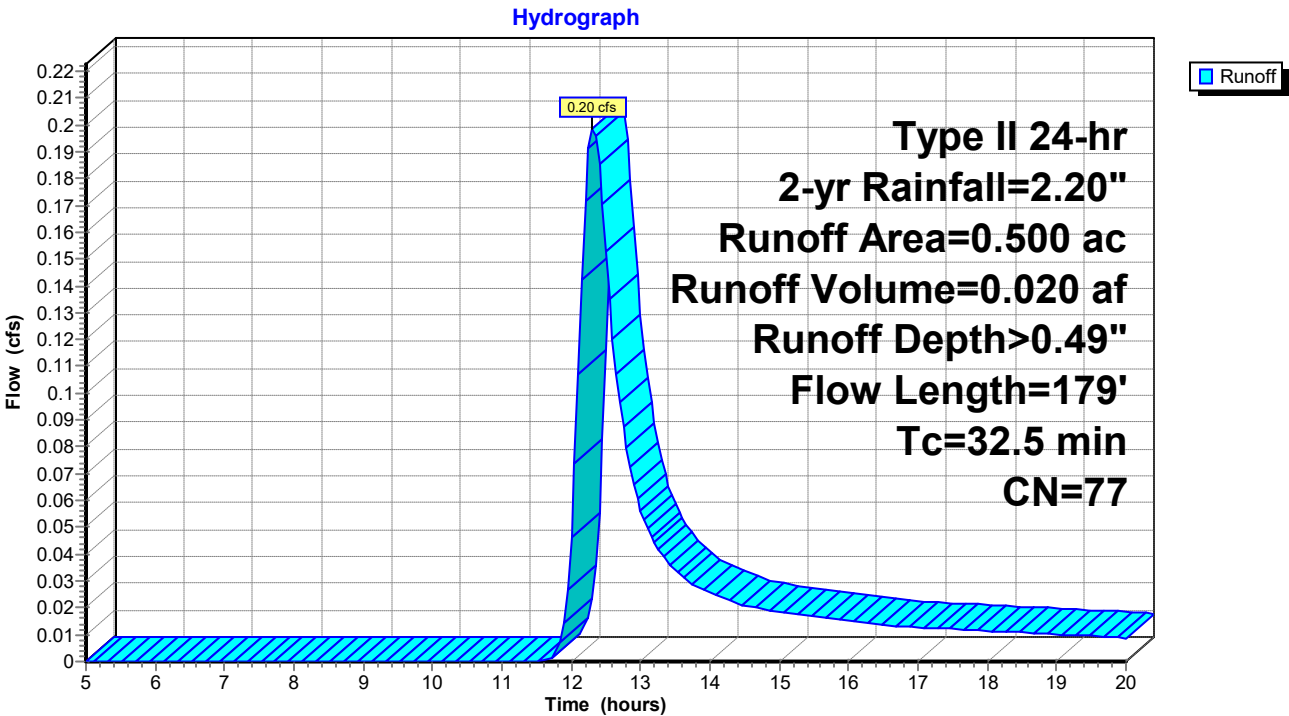
Runoff = 0.20 cfs @ 12.31 hrs, Volume= 0.020 af, Depth> 0.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.500	77	Woods, Good, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06



Pre-Dev

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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 07: DA-07

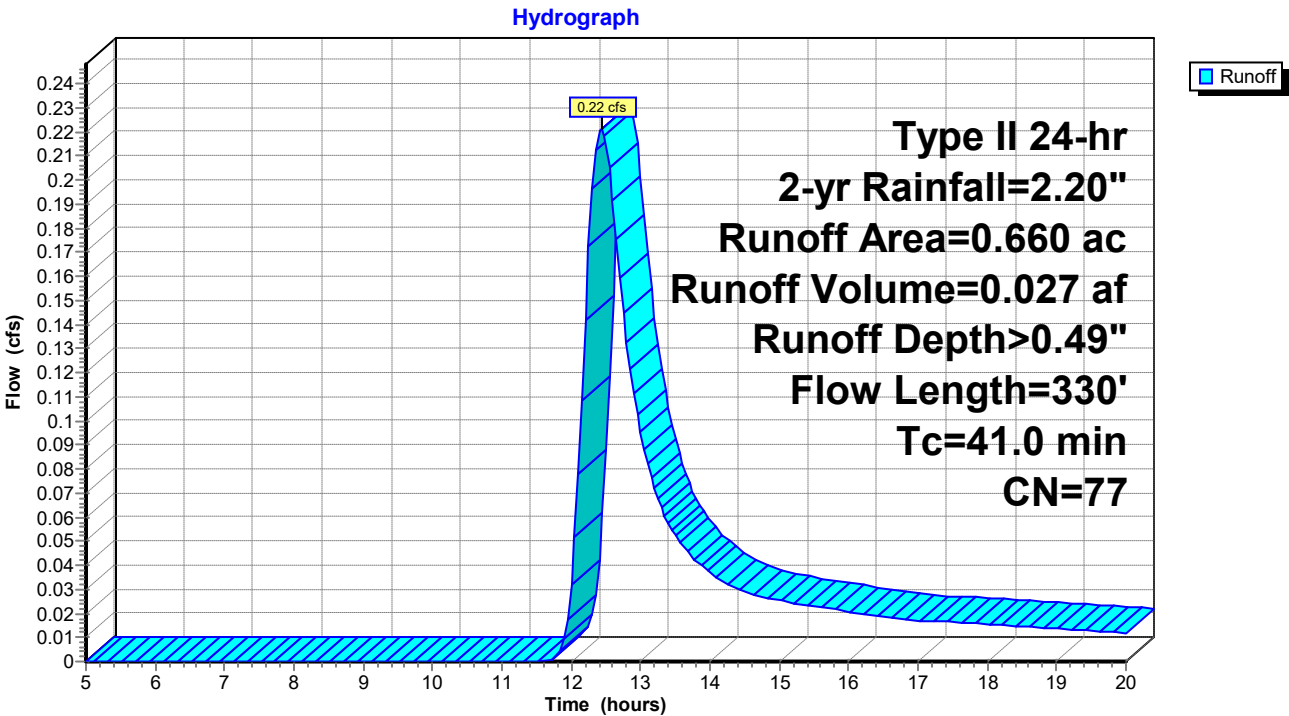
Runoff = 0.22 cfs @ 12.43 hrs, Volume= 0.027 af, Depth> 0.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.660	77	Woods, Good, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	150	0.0750	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
41.0	330	Total			

Subcatchment 07: DA-07



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 08: DA-08

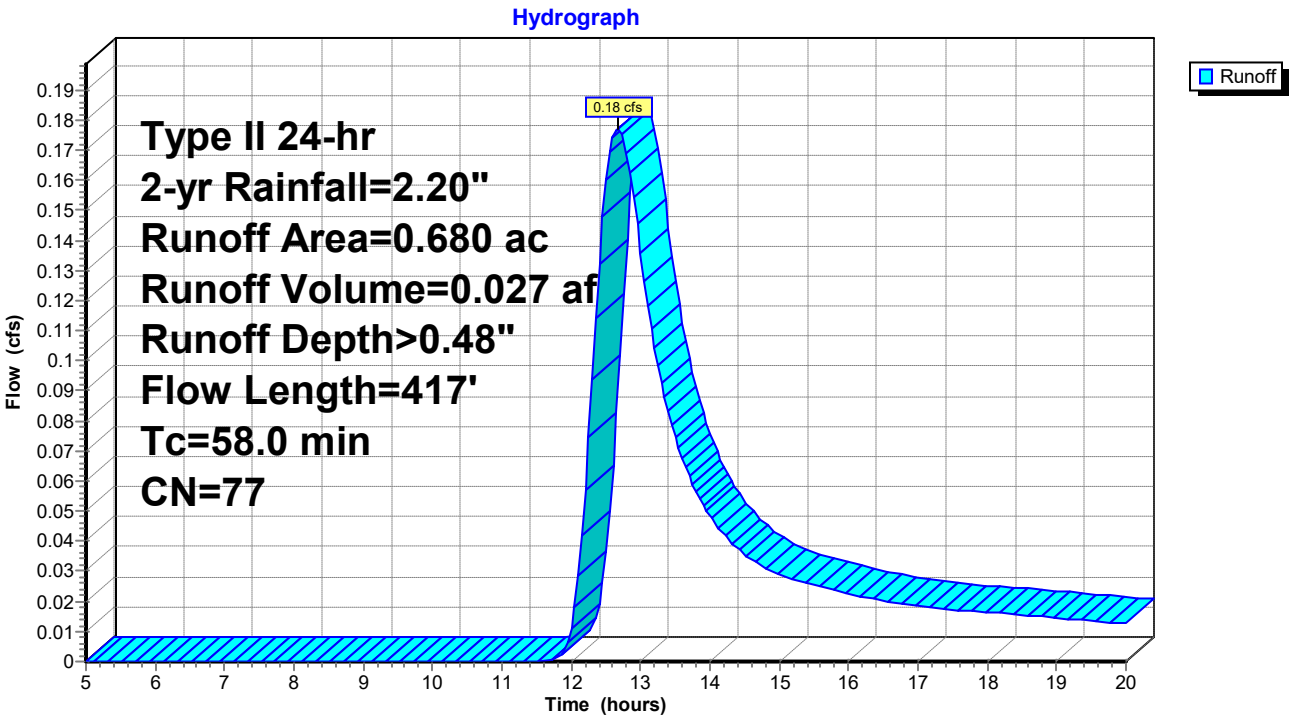
Runoff = 0.18 cfs @ 12.68 hrs, Volume= 0.027 af, Depth> 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.680	77	Woods, Good, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.7	150	0.0320	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
58.0	417	Total			

Subcatchment 08: DA-08



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 09: DA-09

Runoff = 0.23 cfs @ 12.37 hrs, Volume= 0.026 af, Depth> 0.49"

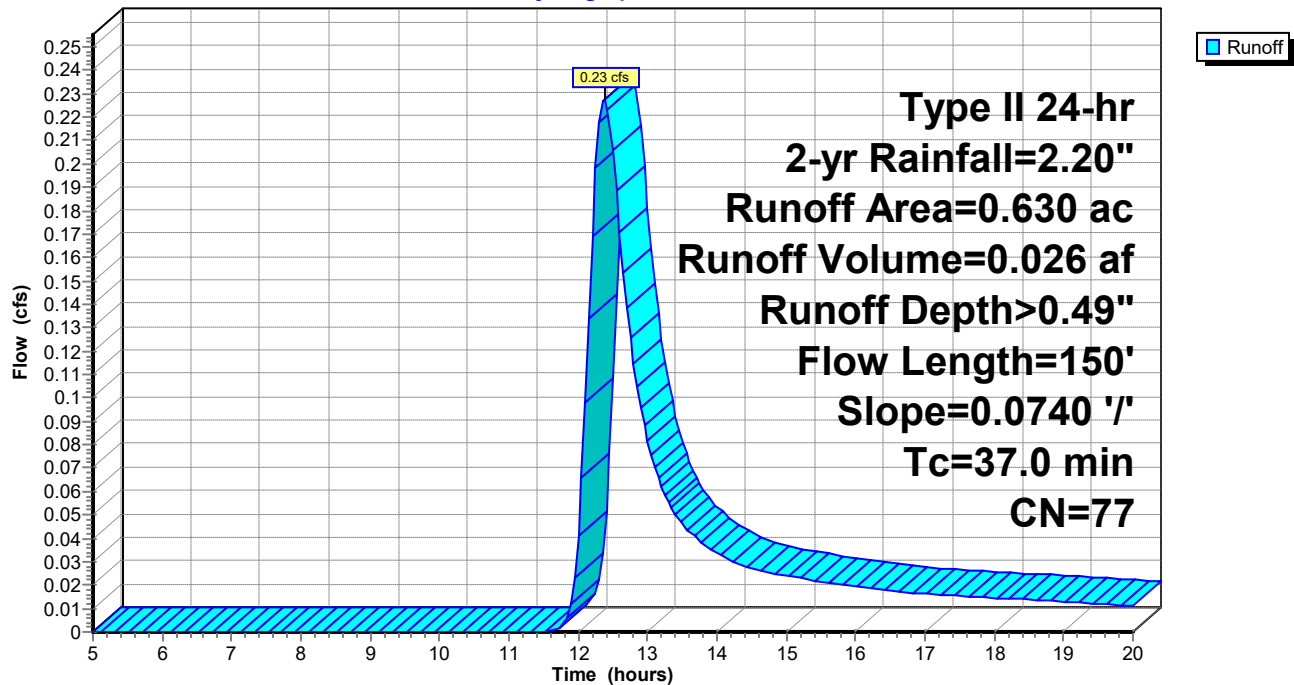
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.630	77	Woods, Good, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.0	150	0.0740	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 10: DA-10

Runoff = 0.05 cfs @ 13.41 hrs, Volume= 0.011 af, Depth> 0.47"

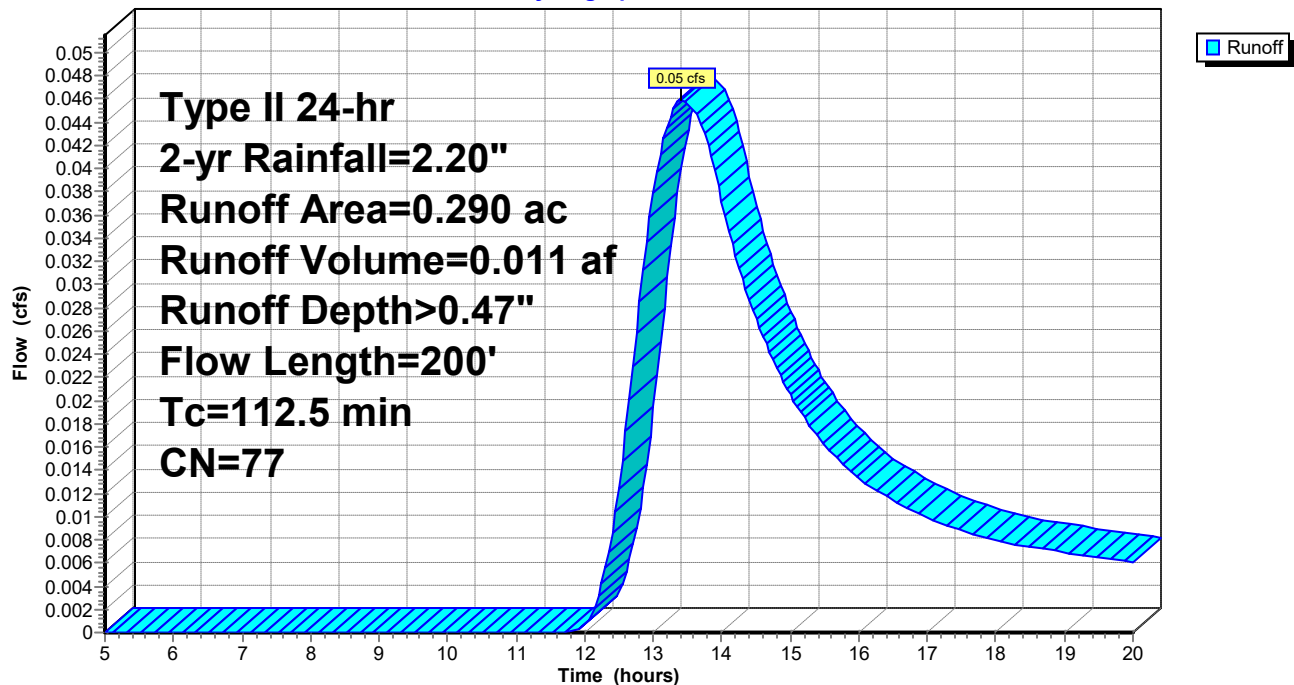
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 11: DA-11

Runoff = 0.12 cfs @ 12.28 hrs, Volume= 0.012 af, Depth> 0.49"

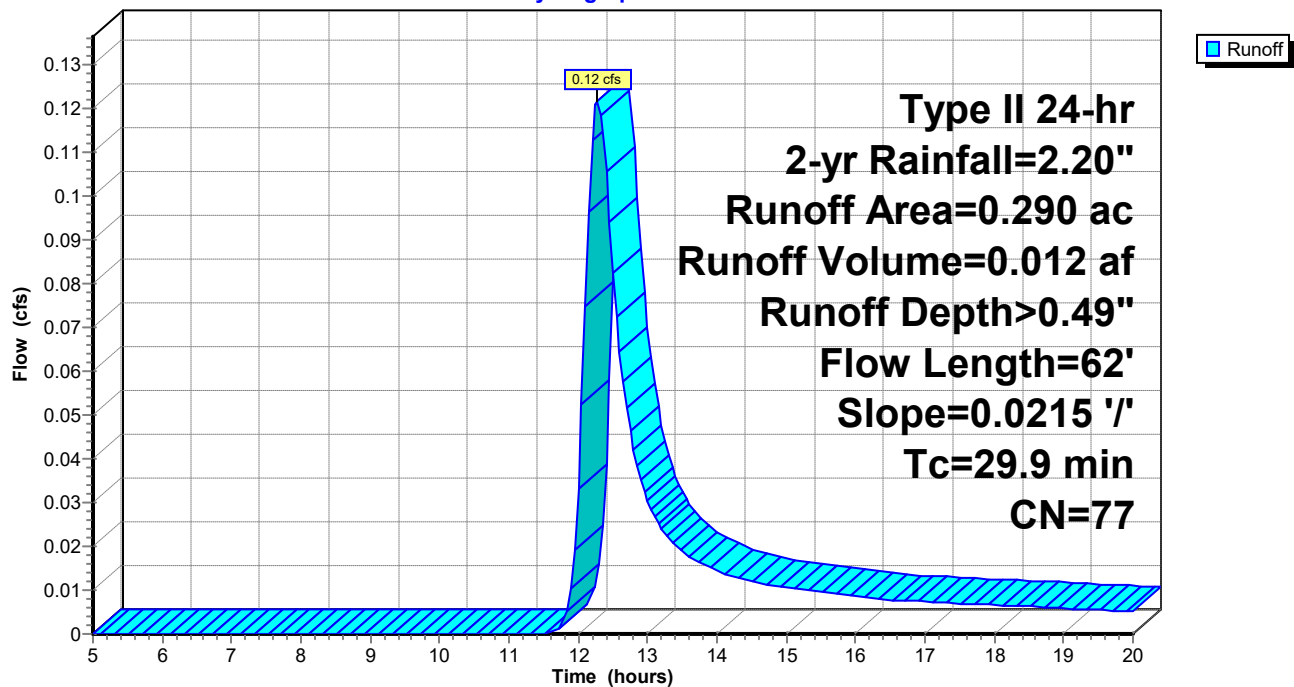
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.9	62	0.0215	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 12: DA-12

Runoff = 0.59 cfs @ 13.53 hrs, Volume= 0.149 af, Depth> 0.43"

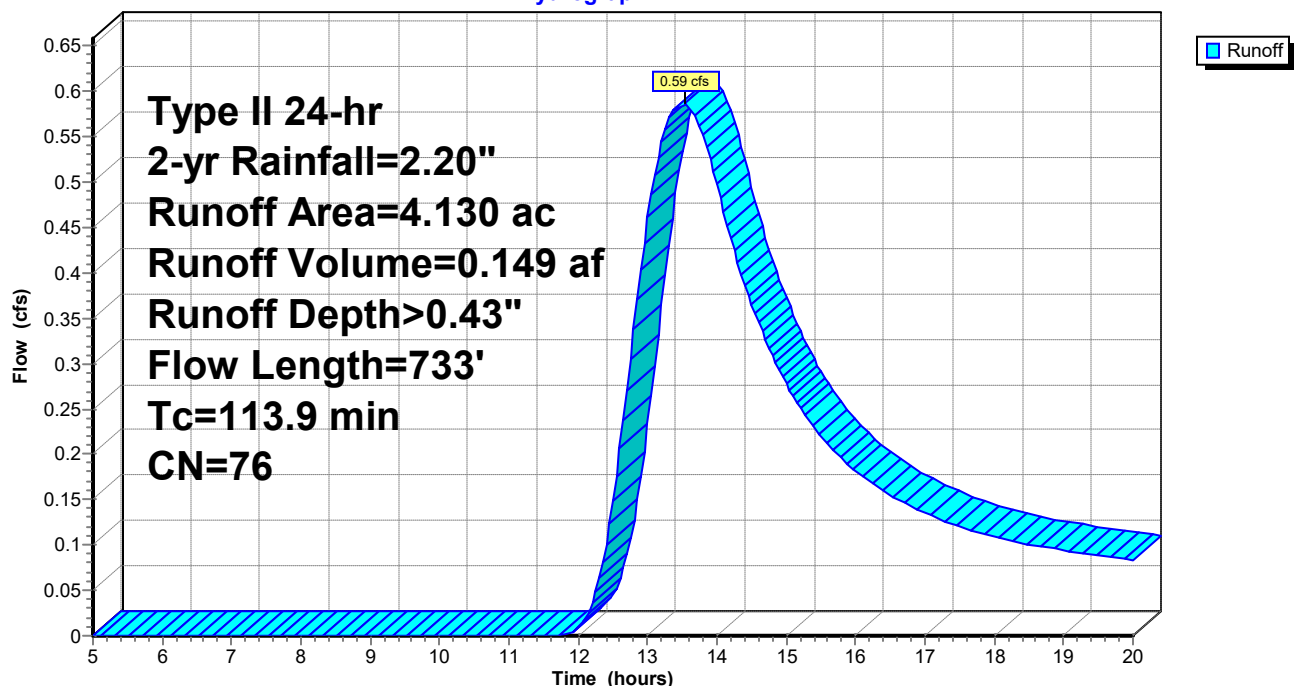
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	77	Woods, Good, HSG D
2.620	70	Woods, Good, HSG C
4.130	76	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.8	150	0.0074	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
113.9	733	Total			

Subcatchment 12: DA-12

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 1.76 cfs @ 11.96 hrs, Volume= 0.076 af, Depth> 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs

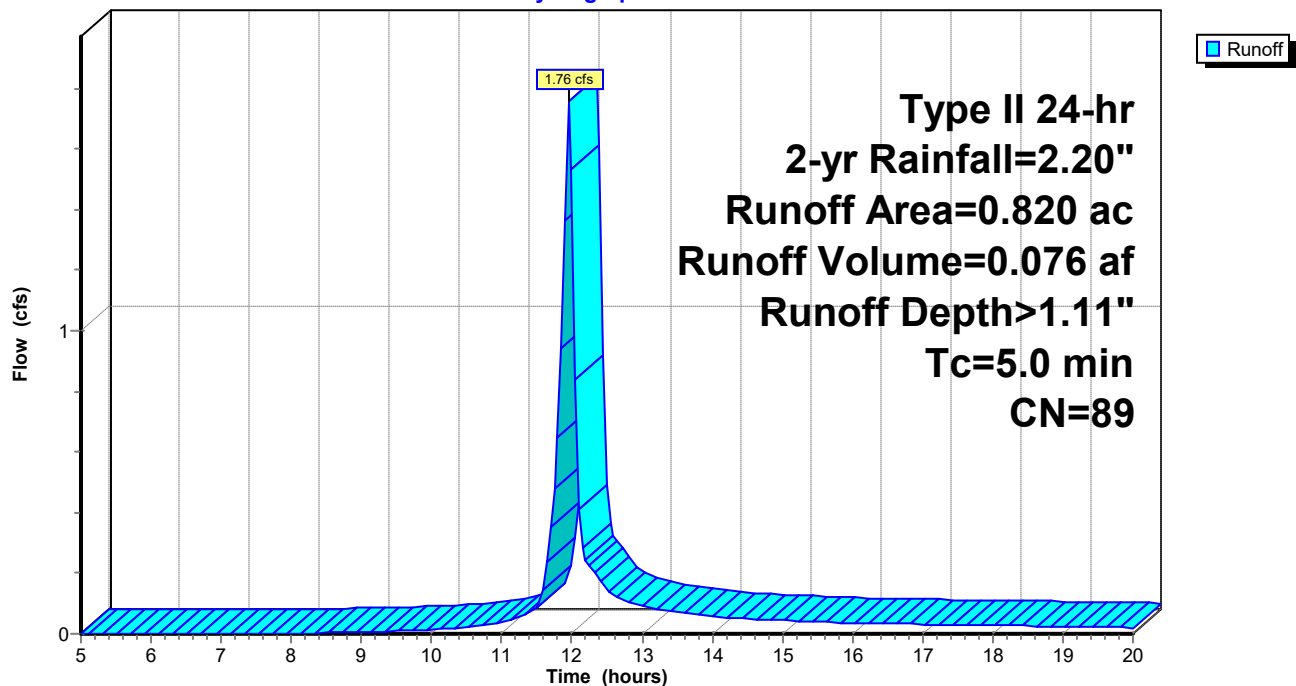
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>1.06" Flow Length=235' Tc=46.6 min CN=77 Runoff=0.97 cfs 0.119 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>1.82" Flow Length=916' Tc=7.6 min CN=88 Runoff=8.35 cfs 0.396 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=100' Slope=0.0700 '/' Tc=27.3 min CN=77 Runoff=0.19 cfs 0.016 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=100' Slope=0.0350 '/' Tc=36.0 min CN=77 Runoff=0.14 cfs 0.014 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>1.02" Flow Length=494' Tc=113.0 min CN=77 Runoff=1.73 cfs 0.395 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=179' Tc=32.5 min CN=77 Runoff=0.47 cfs 0.044 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=330' Tc=41.0 min CN=77 Runoff=0.52 cfs 0.058 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>1.05" Flow Length=417' Tc=58.0 min CN=77 Runoff=0.42 cfs 0.059 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=150' Slope=0.0740 '/' Tc=37.0 min CN=77 Runoff=0.54 cfs 0.056 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>1.02" Flow Length=200' Tc=112.5 min CN=77 Runoff=0.11 cfs 0.025 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>1.06" Flow Length=62' Slope=0.0215 '/' Tc=29.9 min CN=77 Runoff=0.29 cfs 0.026 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>0.96" Flow Length=733' Tc=113.9 min CN=76 Runoff=1.42 cfs 0.331 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>1.91" Tc=5.0 min CN=89 Runoff=2.94 cfs 0.130 af

Total Runoff Area = 16.958 ac Runoff Volume = 1.670 af Average Runoff Depth = 1.18"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

Summary for Subcatchment 01: DA-01

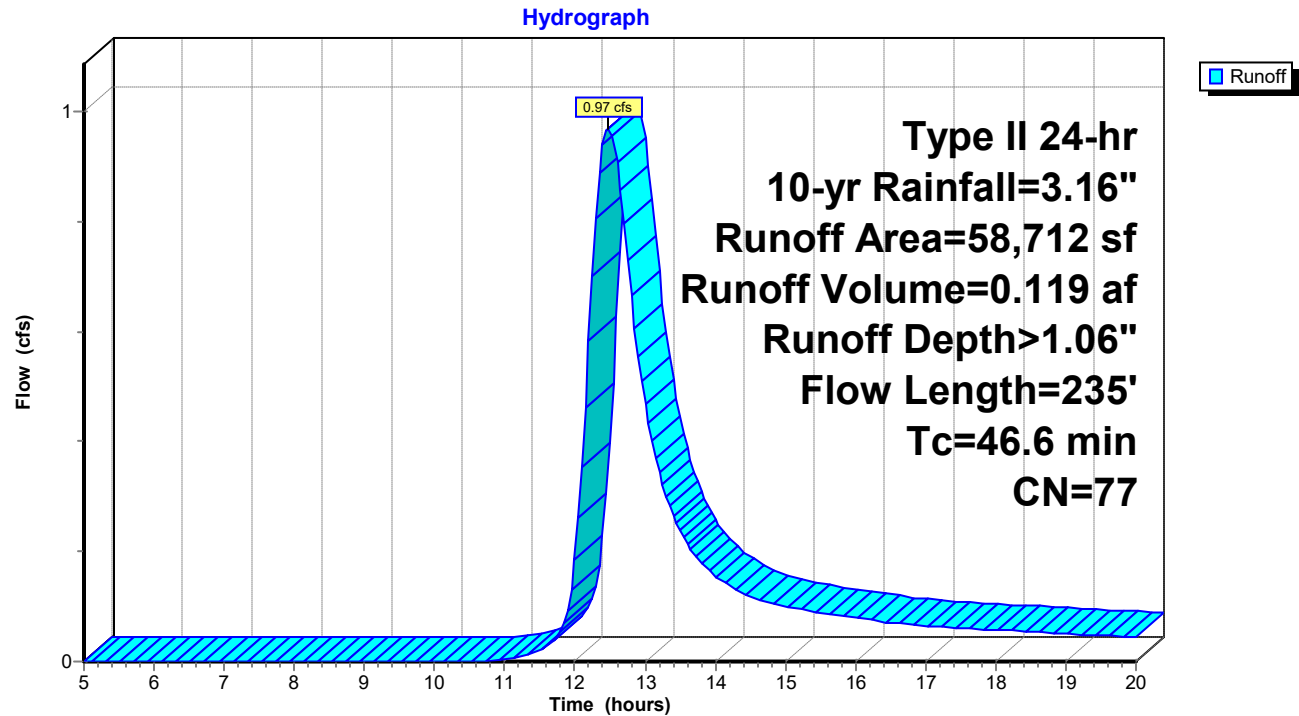
Runoff = 0.97 cfs @ 12.48 hrs, Volume= 0.119 af, Depth> 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (sf)	CN	Description
58,712	77	Woods, Good, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
45.1	150	0.0450	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.6	235	Total			

Subcatchment 01: DA-01



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 02: DA-02

Runoff = 8.35 cfs @ 11.99 hrs, Volume= 0.396 af, Depth> 1.82"

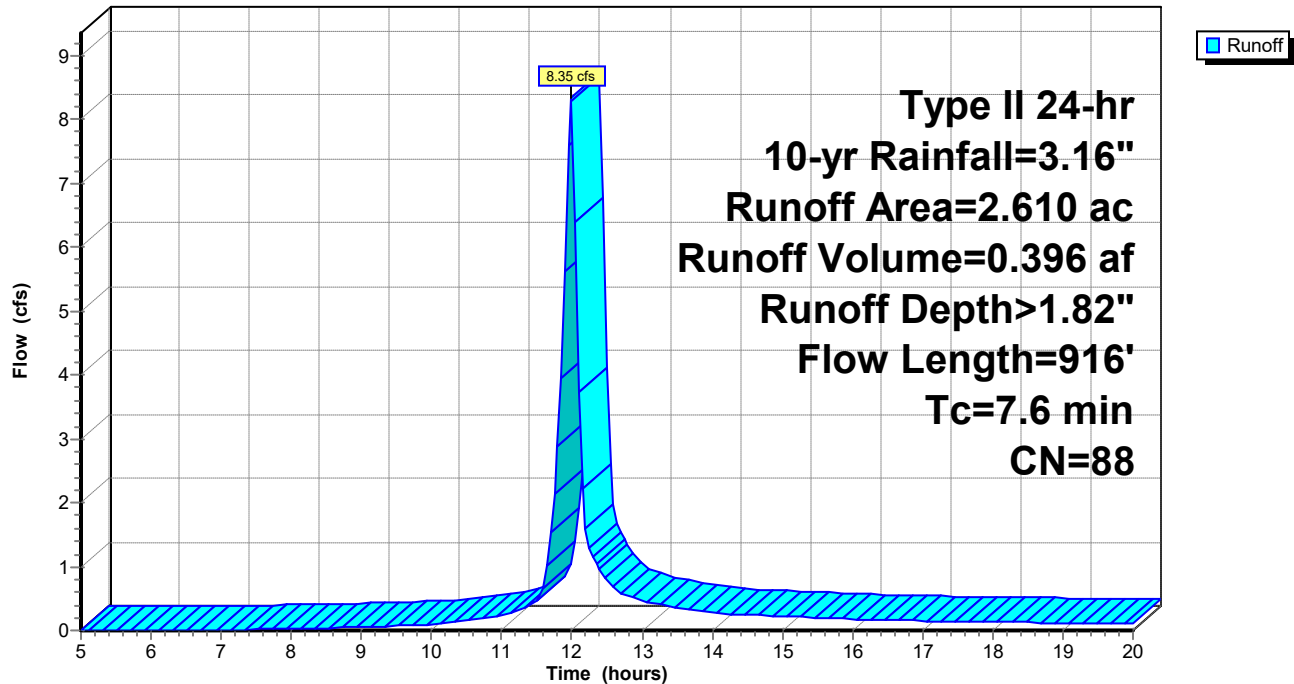
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
1.240	77	Woods, Good, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 03: DA-03

Runoff = 0.19 cfs @ 12.23 hrs, Volume= 0.016 af, Depth> 1.06"

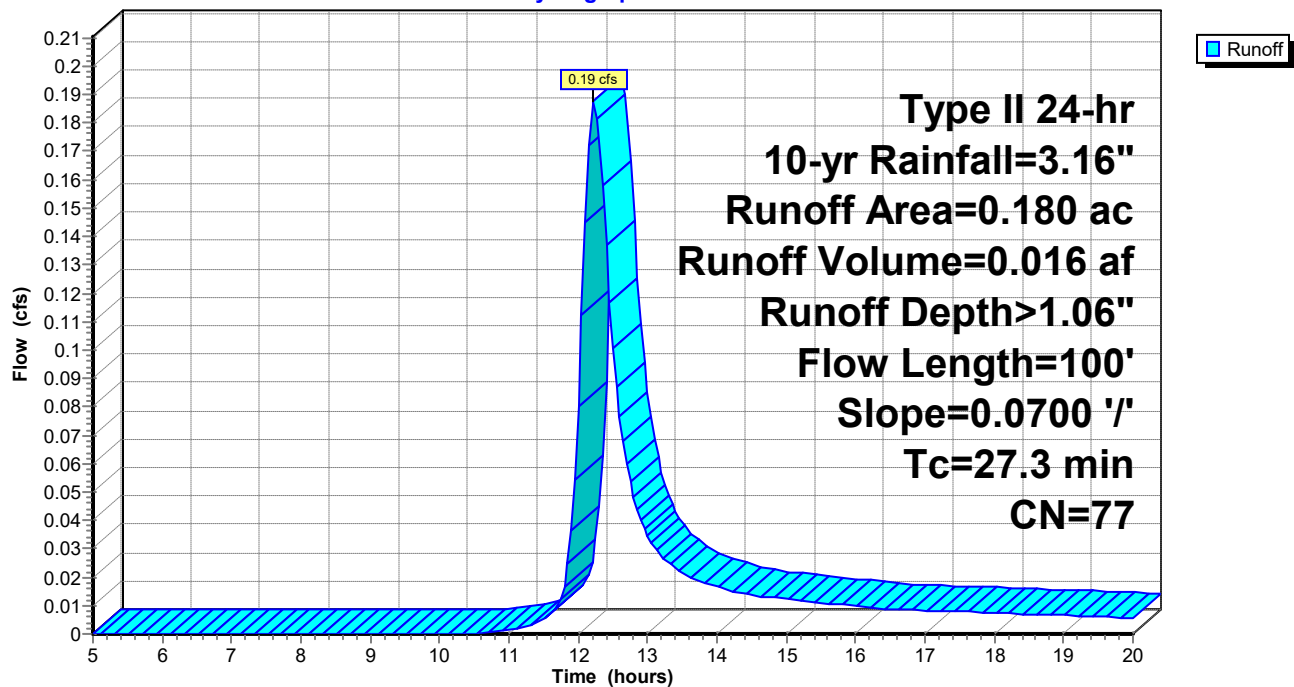
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.180	77	Woods, Good, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0700	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 04: DA-04

Runoff = 0.14 cfs @ 12.34 hrs, Volume= 0.014 af, Depth> 1.06"

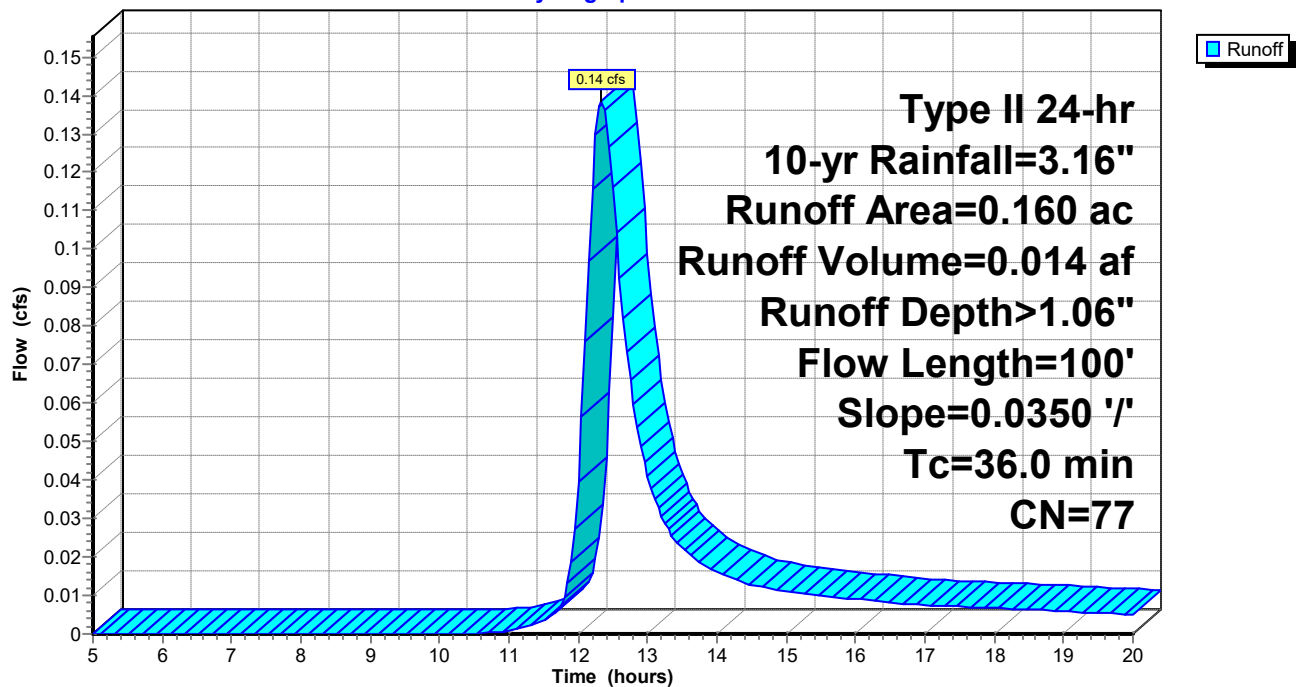
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.160	77	Woods, Good, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.0	100	0.0350	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 05: DA-05

Runoff = 1.73 cfs @ 13.42 hrs, Volume= 0.395 af, Depth> 1.02"

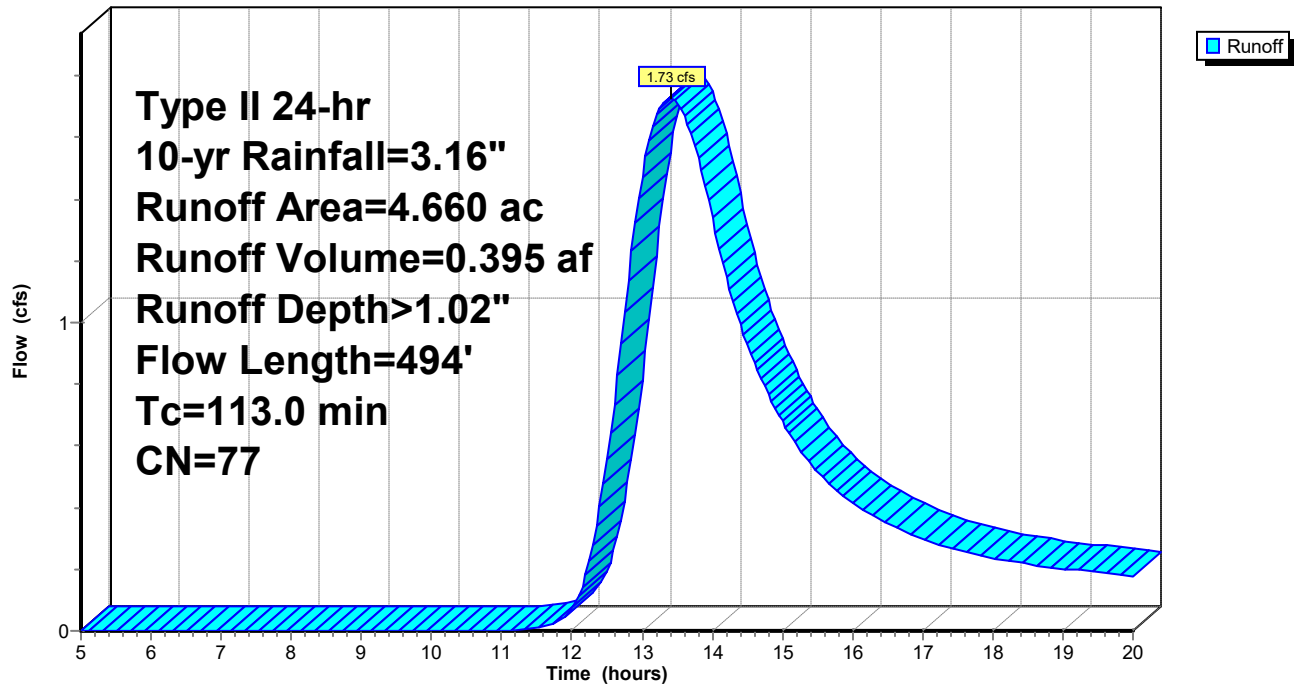
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
4.660	77	Woods, Good, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.3	150	0.0075	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
113.0	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 06: DA-06

Runoff = 0.47 cfs @ 12.29 hrs, Volume= 0.044 af, Depth> 1.06"

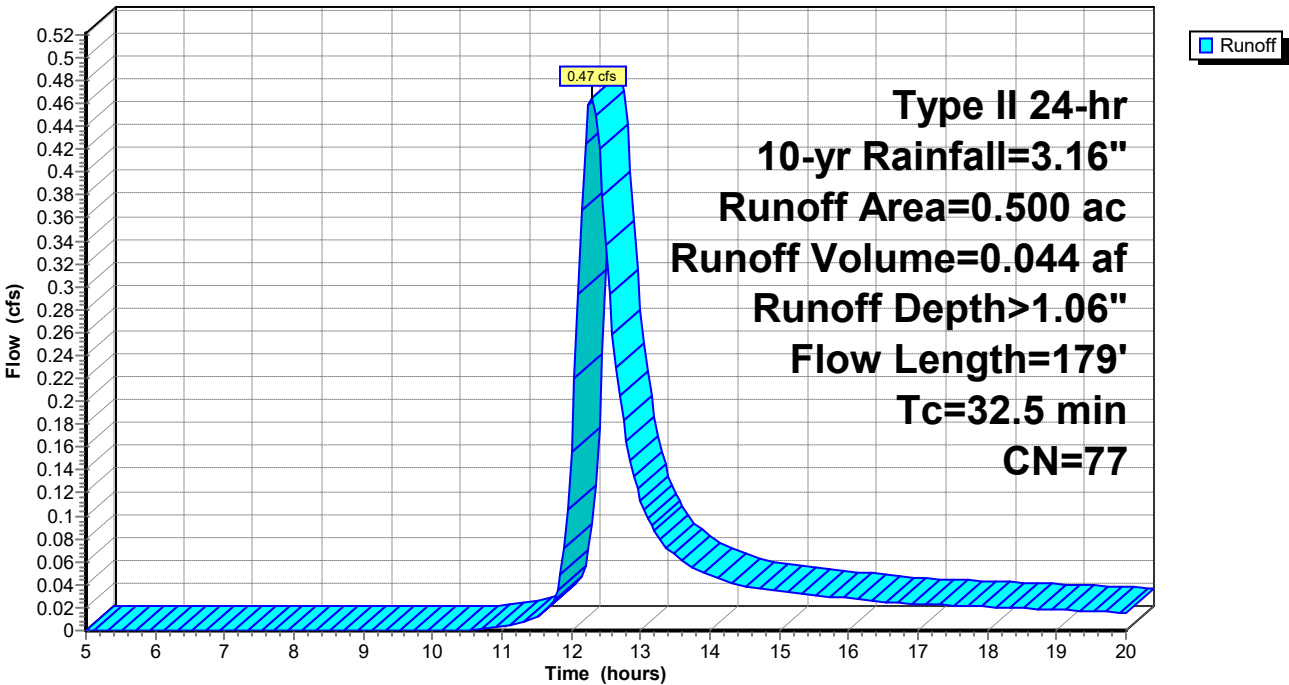
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.500	77	Woods, Good, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 07: DA-07

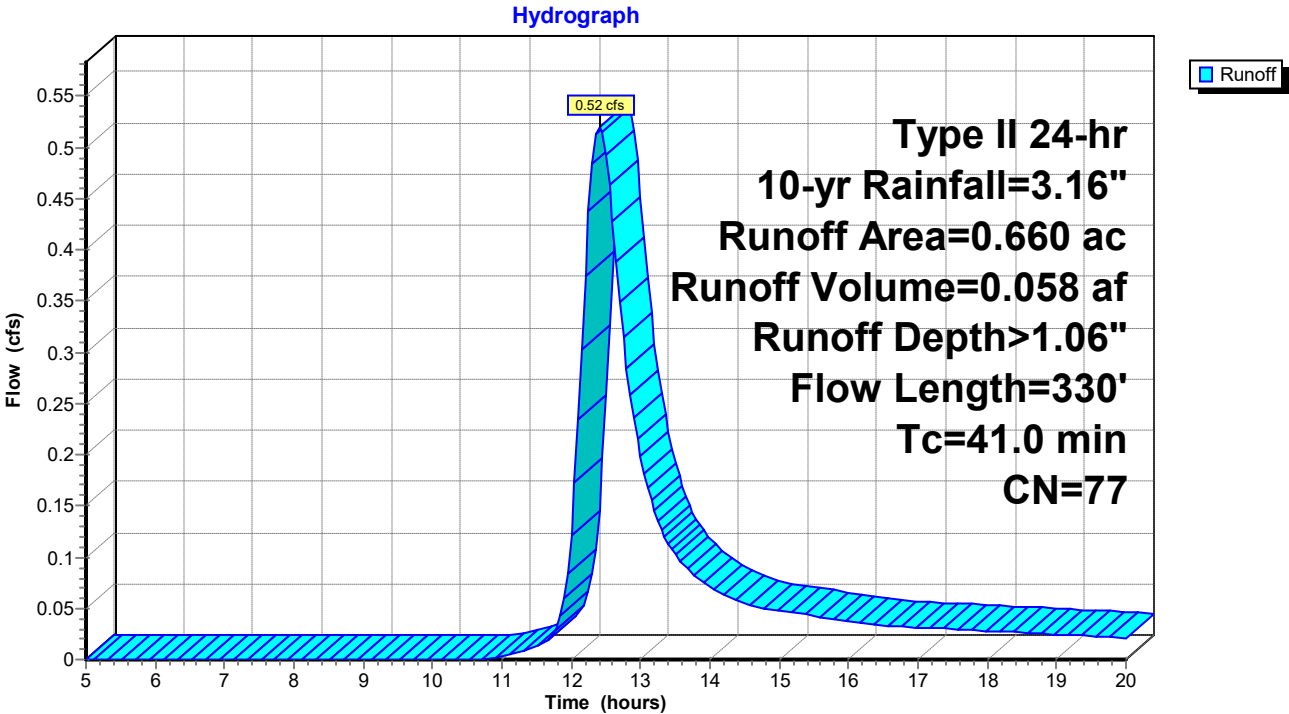
Runoff = 0.52 cfs @ 12.40 hrs, Volume= 0.058 af, Depth> 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.660	77	Woods, Good, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	150	0.0750	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
41.0	330	Total			

Subcatchment 07: DA-07



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 08: DA-08

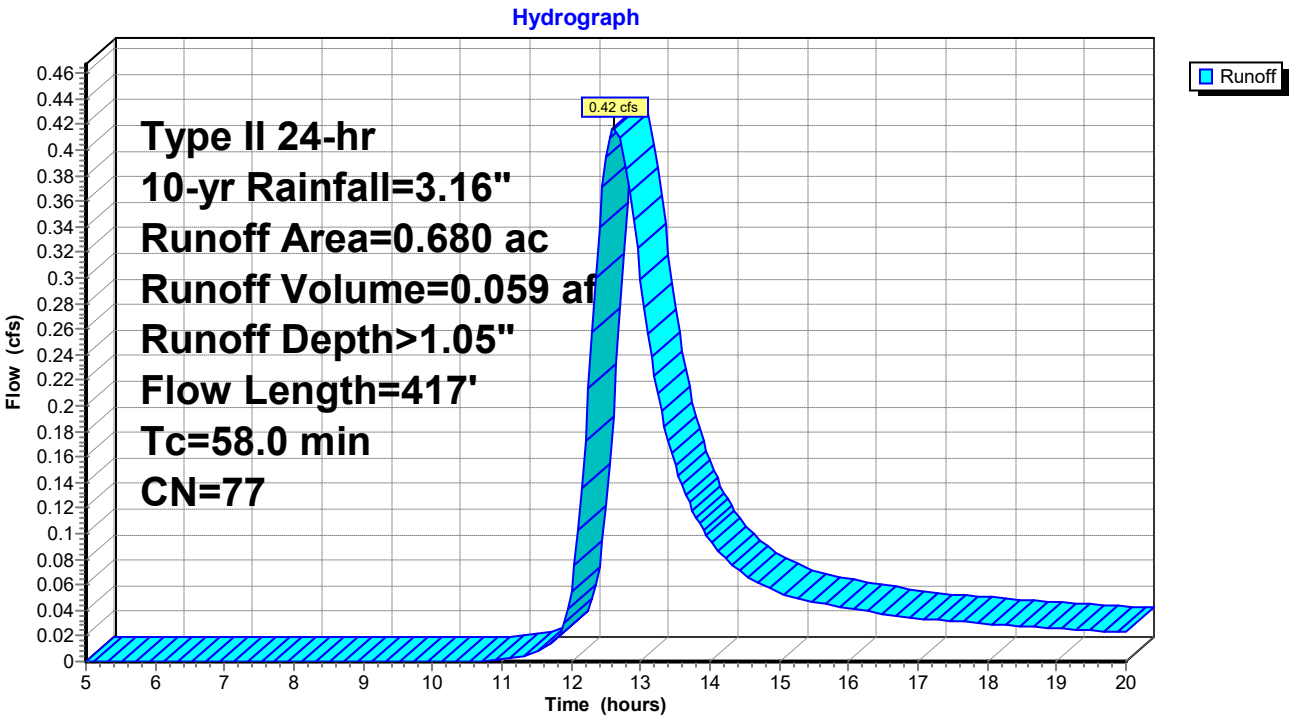
Runoff = 0.42 cfs @ 12.63 hrs, Volume= 0.059 af, Depth> 1.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.680	77	Woods, Good, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.7	150	0.0320	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
58.0	417	Total			

Subcatchment 08: DA-08



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 09: DA-09

Runoff = 0.54 cfs @ 12.35 hrs, Volume= 0.056 af, Depth> 1.06"

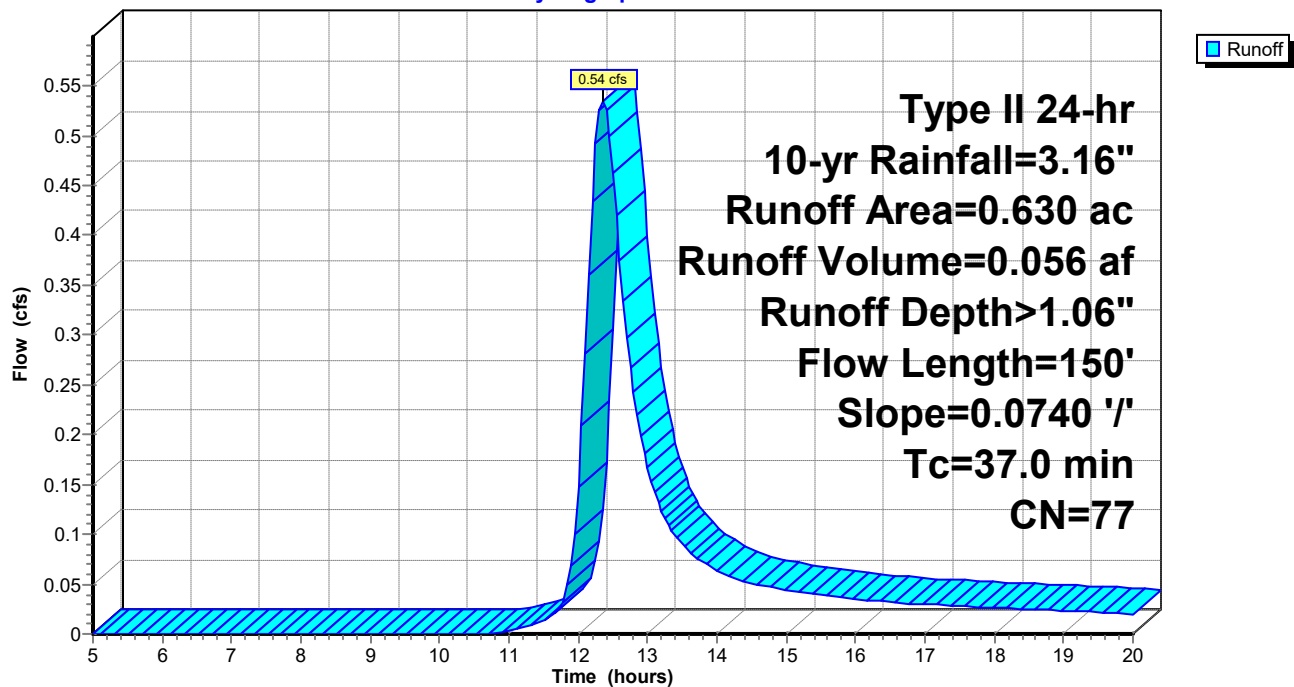
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.630	77	Woods, Good, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.0	150	0.0740	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 10: DA-10

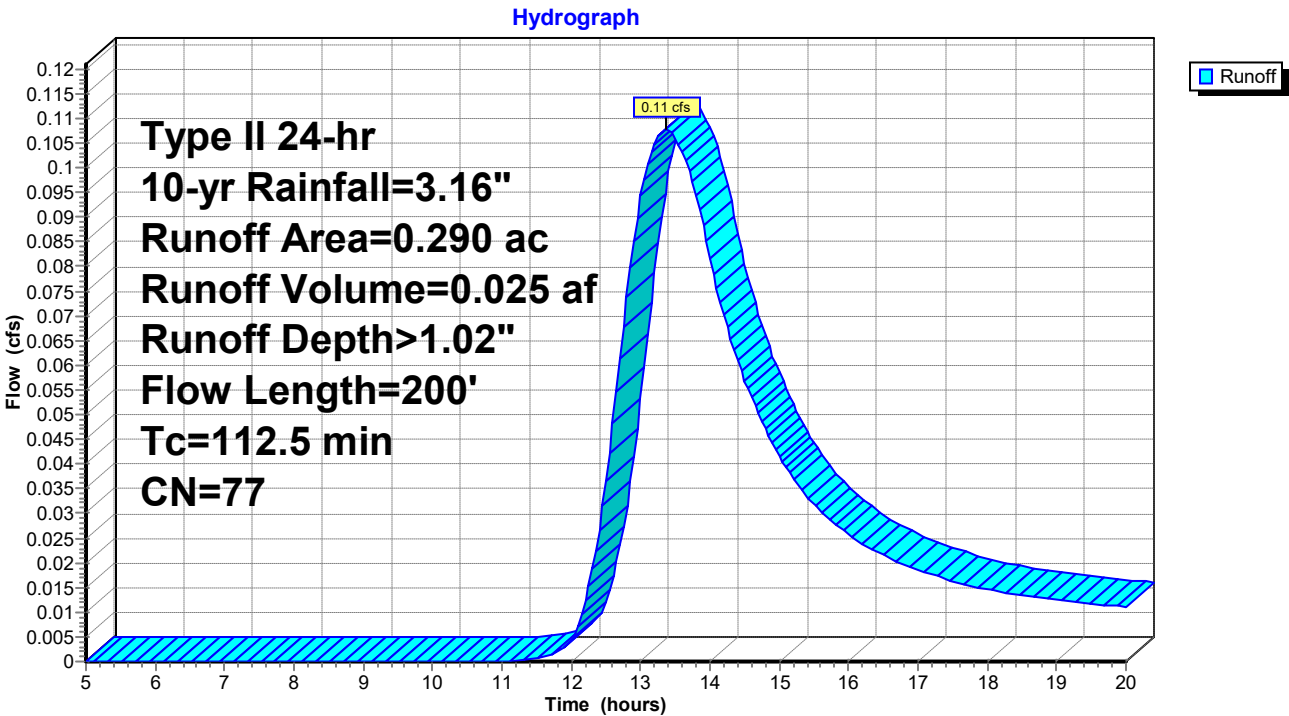
Runoff = 0.11 cfs @ 13.37 hrs, Volume= 0.025 af, Depth> 1.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 11: DA-11

Runoff = 0.29 cfs @ 12.26 hrs, Volume= 0.026 af, Depth> 1.06"

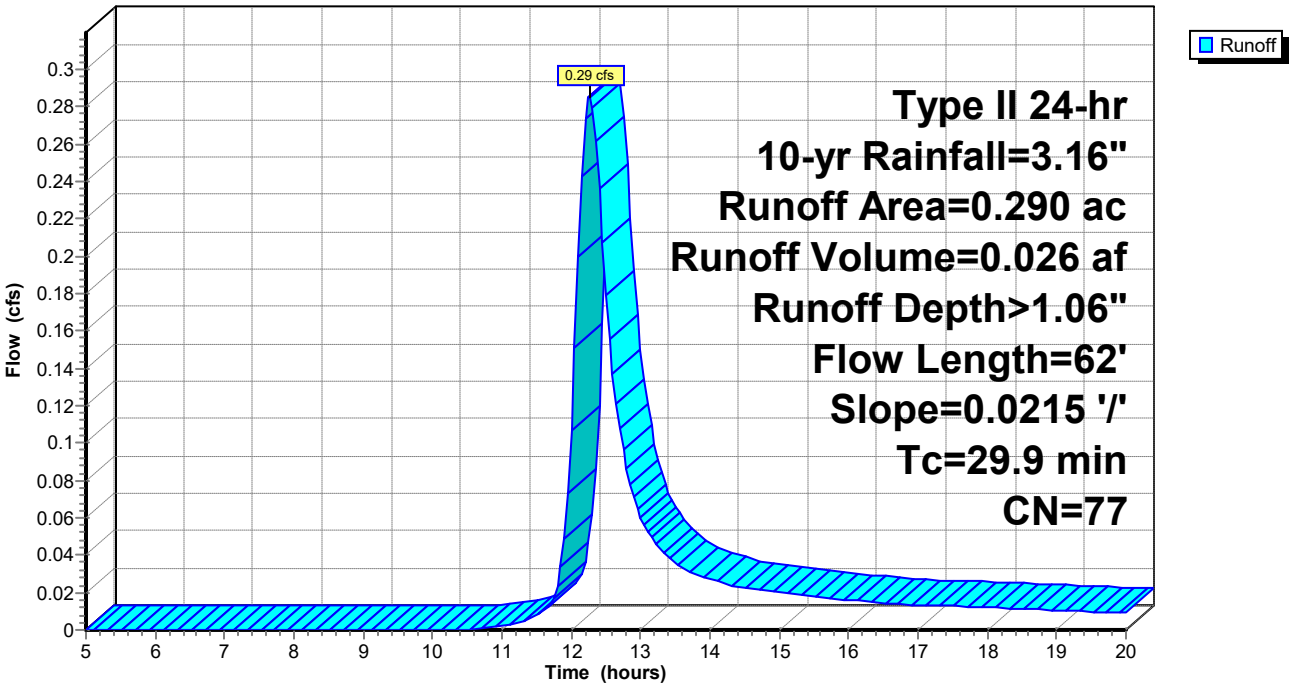
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.9	62	0.0215	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 12: DA-12

Runoff = 1.42 cfs @ 13.40 hrs, Volume= 0.331 af, Depth> 0.96"

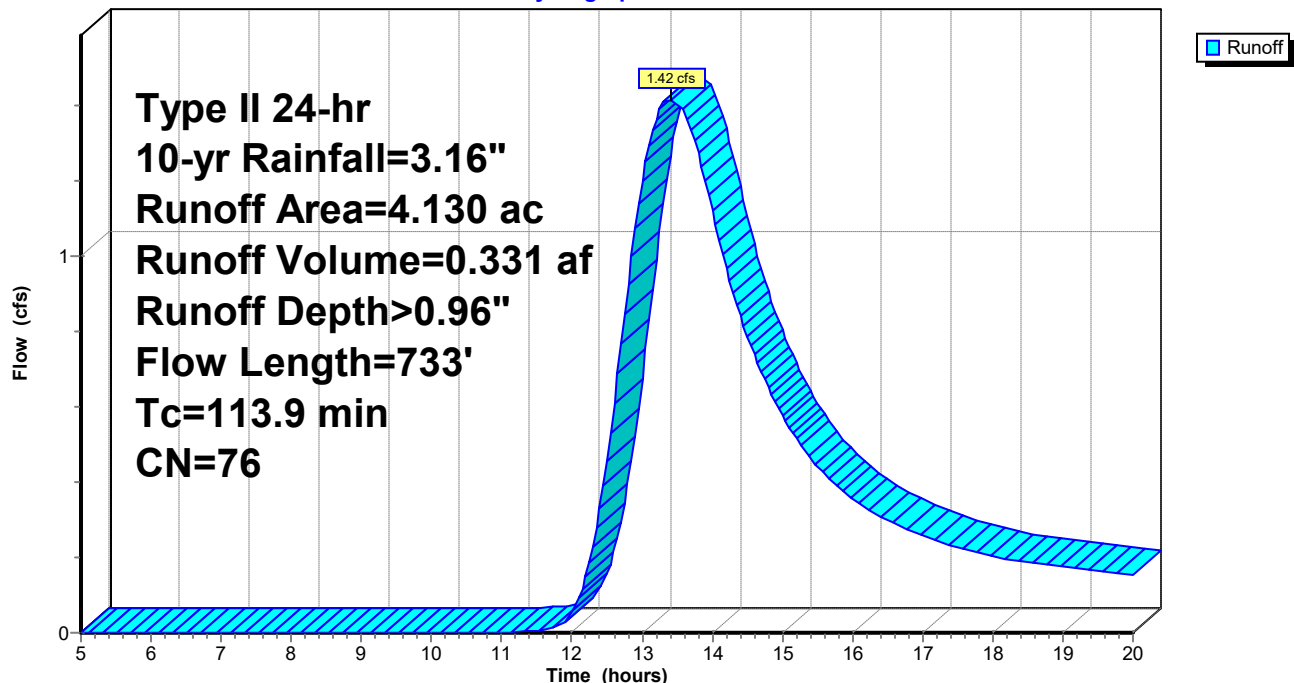
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	77	Woods, Good, HSG D
2.620	70	Woods, Good, HSG C
4.130	76	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.8	150	0.0074	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
113.9	733	Total			

Subcatchment 12: DA-12

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 2.94 cfs @ 11.95 hrs, Volume= 0.130 af, Depth> 1.91"

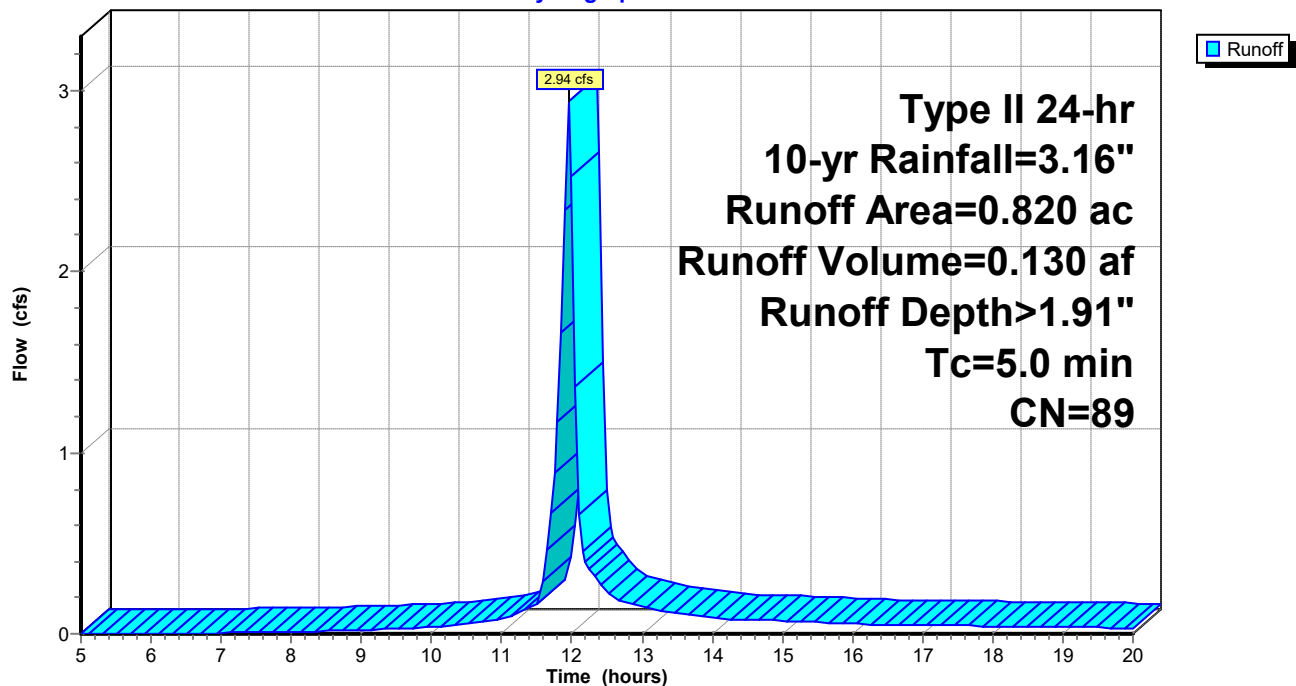
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>2.15" Flow Length=235' Tc=46.6 min CN=77 Runoff=2.03 cfs 0.242 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>3.17" Flow Length=916' Tc=7.6 min CN=88 Runoff=14.03 cfs 0.689 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>2.17" Flow Length=100' Slope=0.0700 '/' Tc=27.3 min CN=77 Runoff=0.39 cfs 0.033 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>2.16" Flow Length=100' Slope=0.0350 '/' Tc=36.0 min CN=77 Runoff=0.29 cfs 0.029 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>2.09" Flow Length=494' Tc=113.0 min CN=77 Runoff=3.63 cfs 0.811 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>2.16" Flow Length=179' Tc=32.5 min CN=77 Runoff=0.97 cfs 0.090 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>2.16" Flow Length=330' Tc=41.0 min CN=77 Runoff=1.09 cfs 0.119 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>2.14" Flow Length=417' Tc=58.0 min CN=77 Runoff=0.88 cfs 0.121 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>2.16" Flow Length=150' Slope=0.0740 '/' Tc=37.0 min CN=77 Runoff=1.12 cfs 0.113 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>2.09" Flow Length=200' Tc=112.5 min CN=77 Runoff=0.23 cfs 0.050 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>2.17" Flow Length=62' Slope=0.0215 '/' Tc=29.9 min CN=77 Runoff=0.59 cfs 0.052 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>2.01" Flow Length=733' Tc=113.9 min CN=76 Runoff=3.06 cfs 0.691 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>3.27" Tc=5.0 min CN=89 Runoff=4.87 cfs 0.223 af

Total Runoff Area = 16.958 ac Runoff Volume = 3.263 af Average Runoff Depth = 2.31"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

Pre-Dev

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 01: DA-01

Runoff = 2.03 cfs @ 12.46 hrs, Volume= 0.242 af, Depth> 2.15"

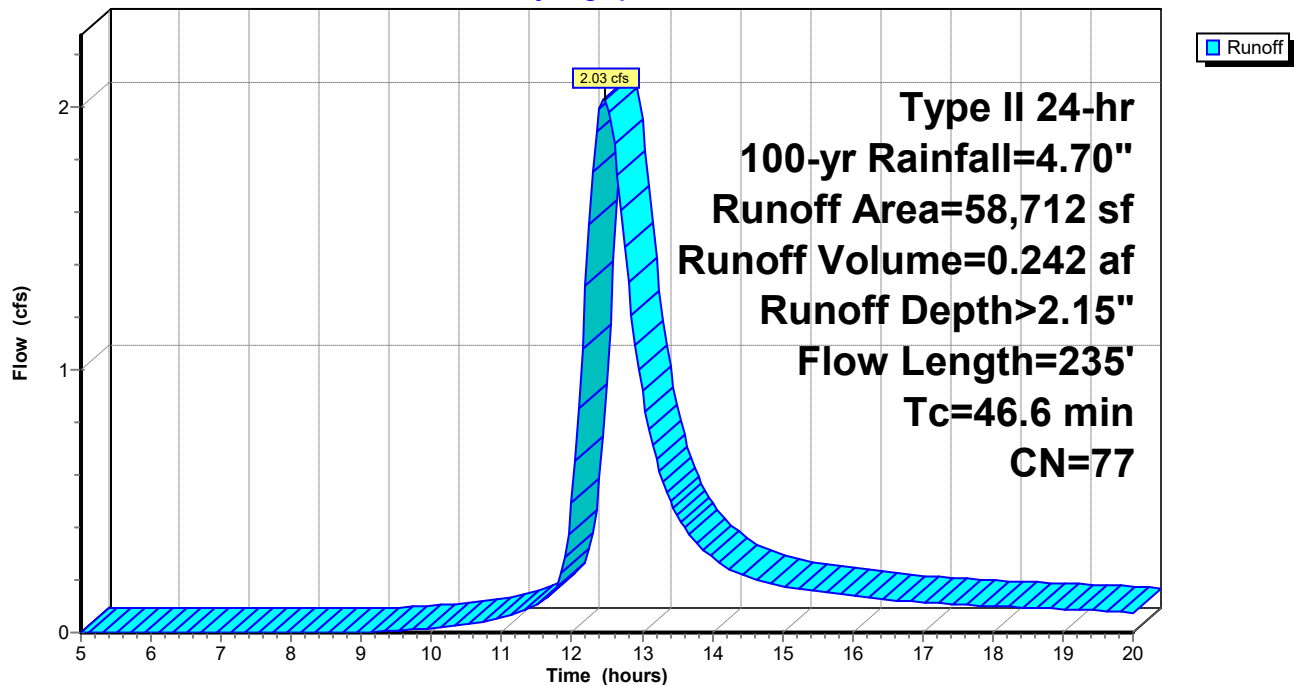
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (sf)	CN	Description
58,712	77	Woods, Good, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
45.1	150	0.0450	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
46.6	235	Total			

Subcatchment 01: DA-01

Hydrograph



Summary for Subcatchment 02: DA-02

[47] Hint: Peak is 113% of capacity of segment #5

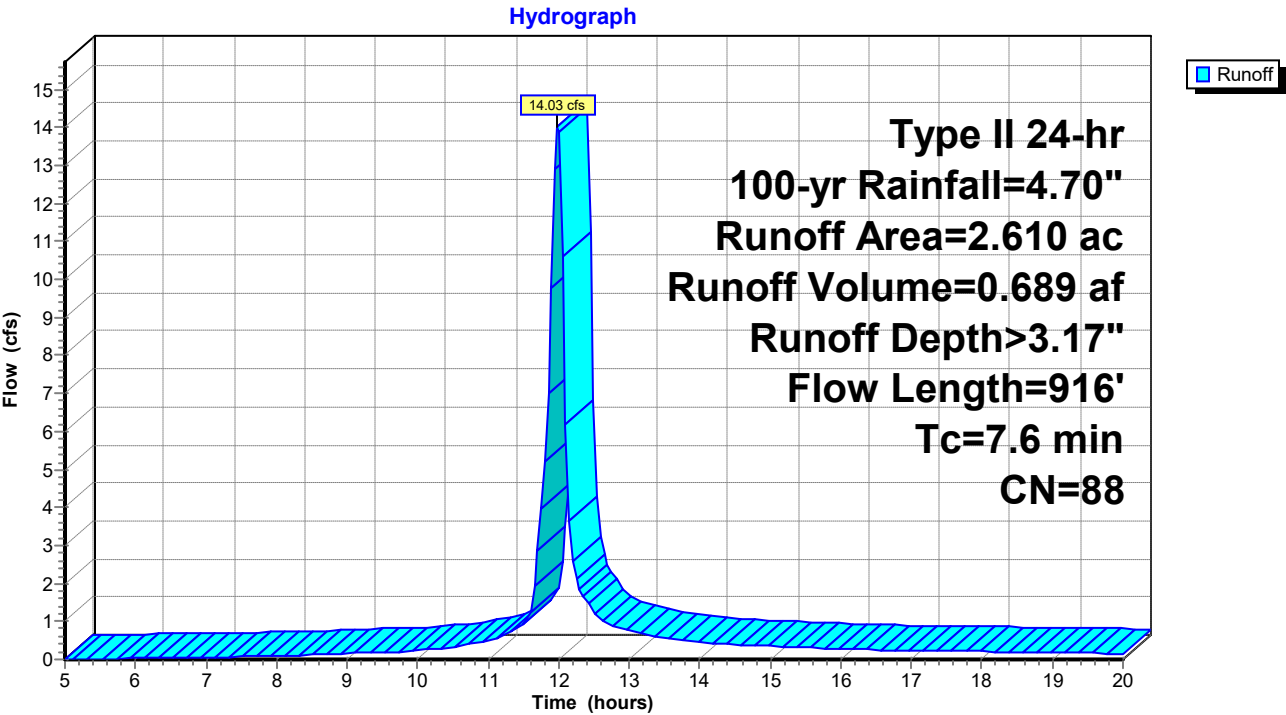
Runoff = 14.03 cfs @ 11.99 hrs, Volume= 0.689 af, Depth> 3.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
1.240	77	Woods, Good, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02



Pre-Dev

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 03: DA-03

Runoff = 0.39 cfs @ 12.22 hrs, Volume= 0.033 af, Depth> 2.17"

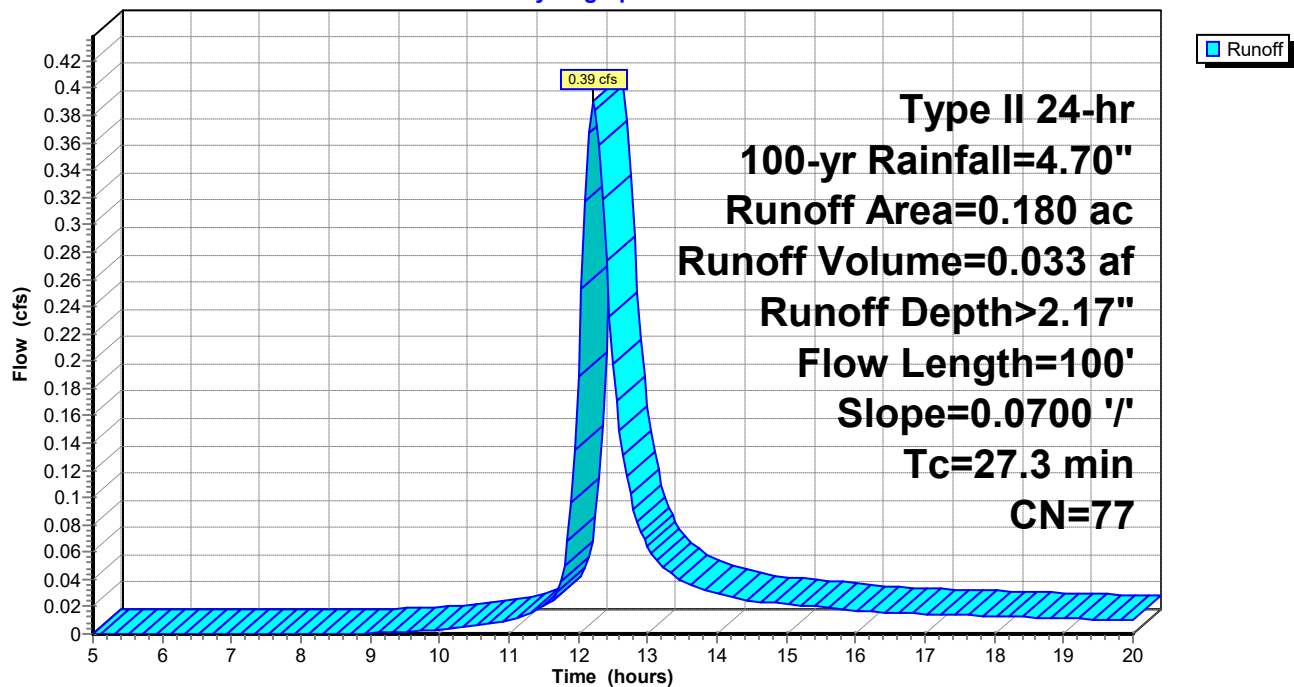
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.180	77	Woods, Good, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.3	100	0.0700	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 04: DA-04

Runoff = 0.29 cfs @ 12.32 hrs, Volume= 0.029 af, Depth> 2.16"

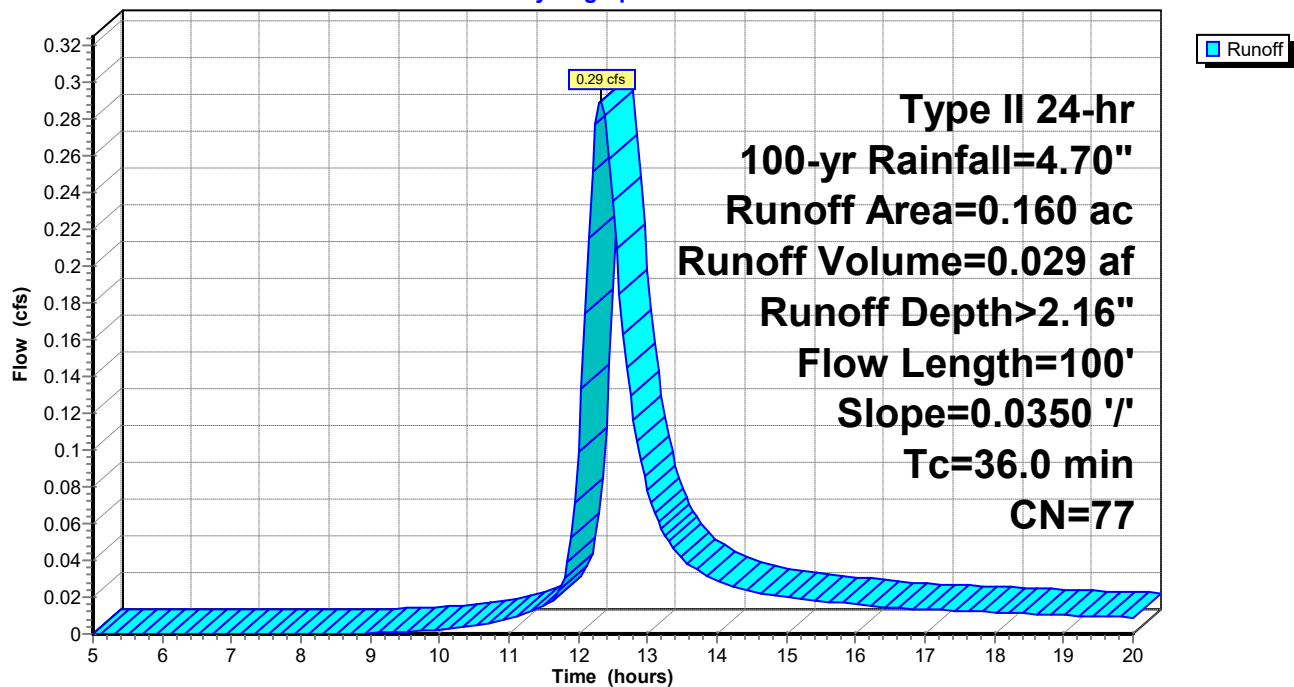
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.160	77	Woods, Good, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.0	100	0.0350	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



Summary for Subcatchment 05: DA-05

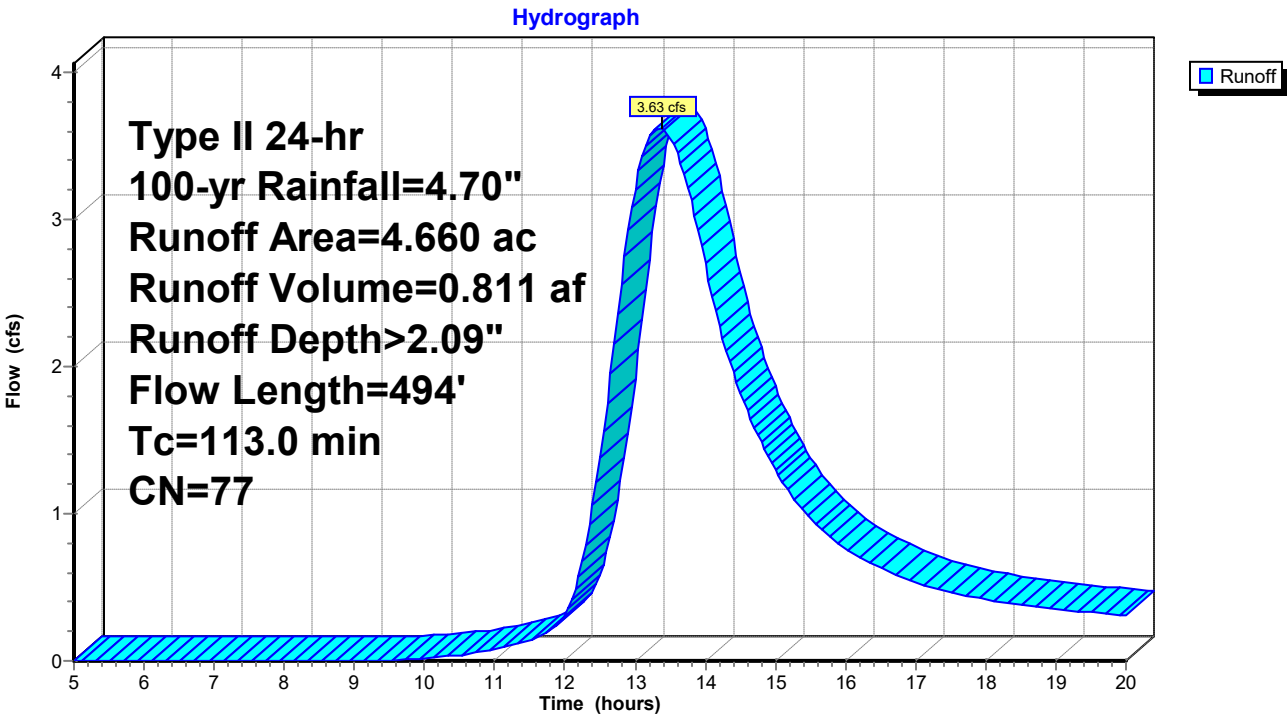
Runoff = 3.63 cfs @ 13.38 hrs, Volume= 0.811 af, Depth> 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description			
4.660	77	Woods, Good, HSG D			
4.660		100.00% Pervious Area			

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.3	150	0.0075	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
113.0	494	Total			

Subcatchment 05: DA-05



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 06: DA-06

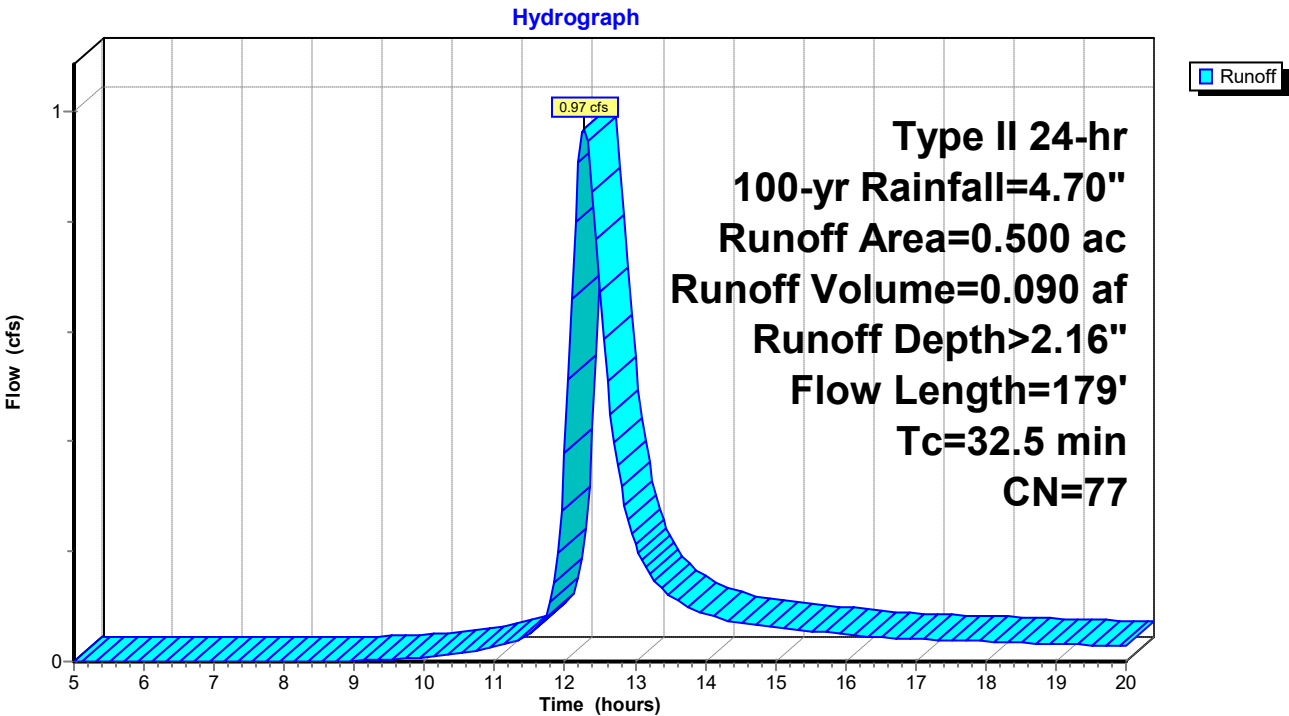
Runoff = 0.97 cfs @ 12.28 hrs, Volume= 0.090 af, Depth> 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.500	77	Woods, Good, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06



Pre-Dev

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 07: DA-07

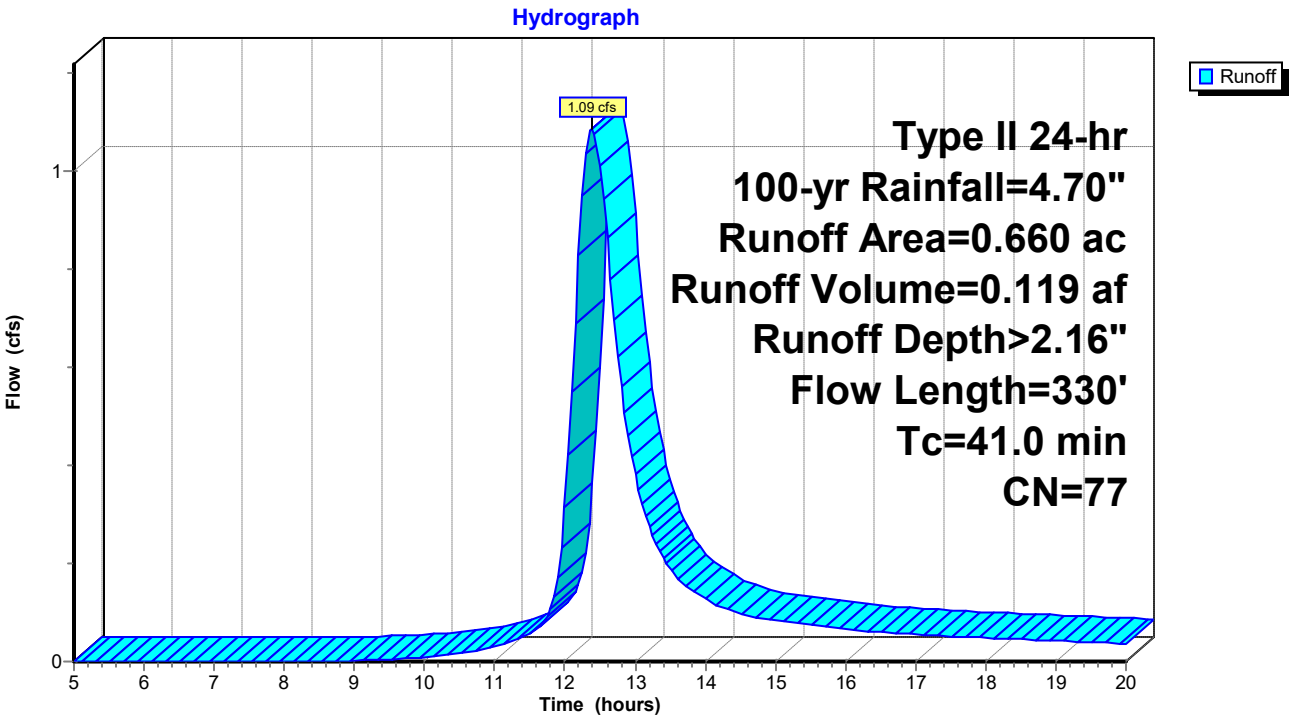
Runoff = 1.09 cfs @ 12.38 hrs, Volume= 0.119 af, Depth> 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.660	77	Woods, Good, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.8	150	0.0750	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
41.0	330	Total			

Subcatchment 07: DA-07



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 08: DA-08

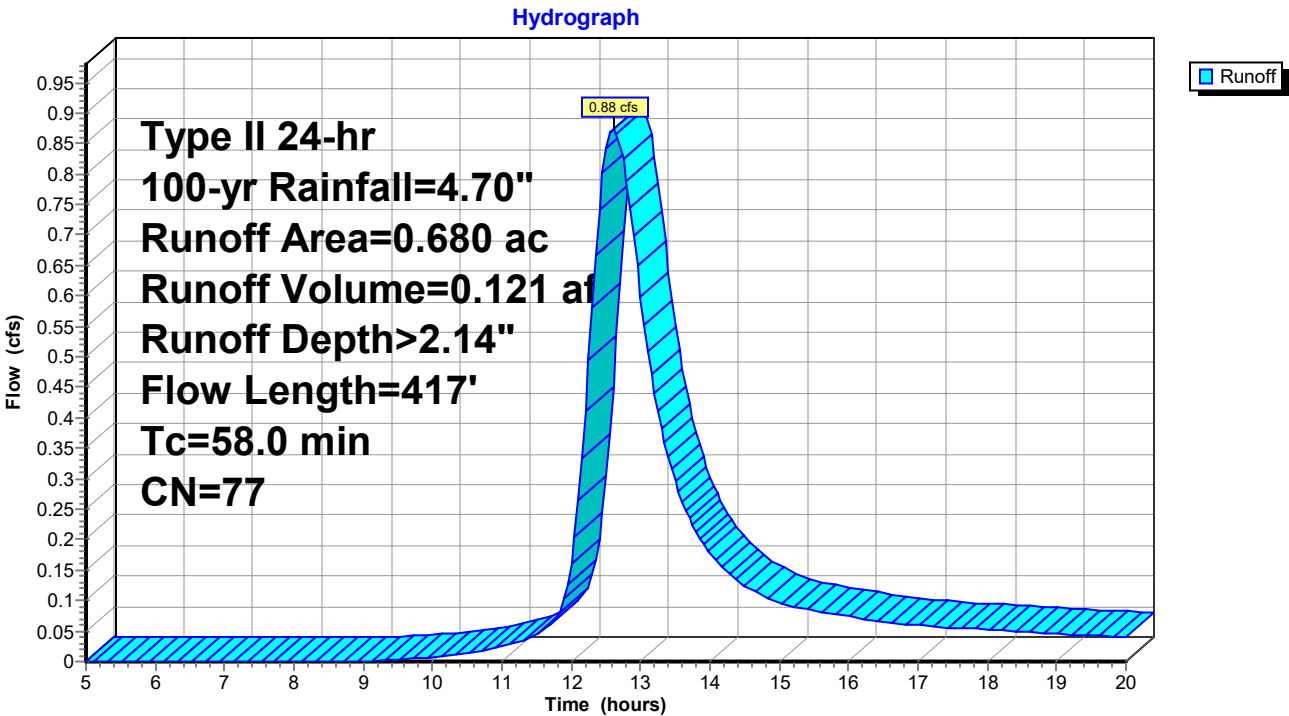
Runoff = 0.88 cfs @ 12.60 hrs, Volume= 0.121 af, Depth> 2.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.680	77	Woods, Good, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.7	150	0.0320	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
58.0	417	Total			

Subcatchment 08: DA-08



Summary for Subcatchment 09: DA-09

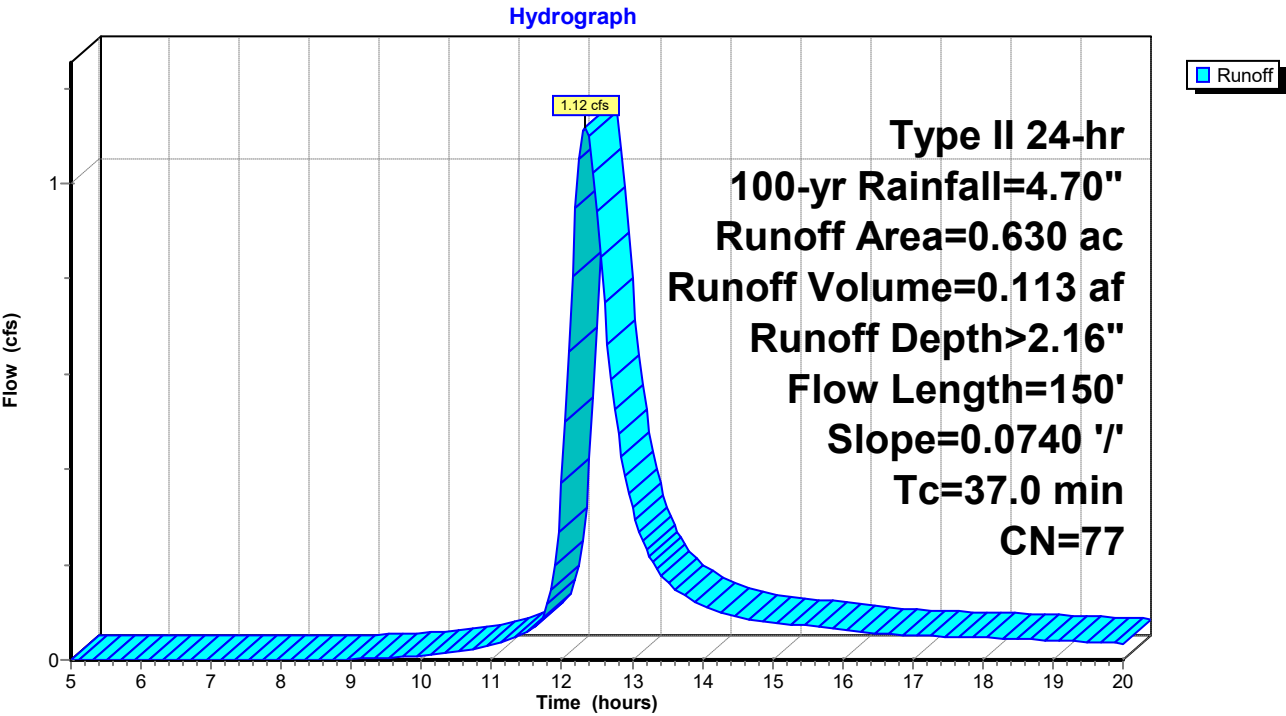
Runoff = 1.12 cfs @ 12.33 hrs, Volume= 0.113 af, Depth> 2.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.630	77	Woods, Good, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.0	150	0.0740	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09



Summary for Subcatchment 10: DA-10

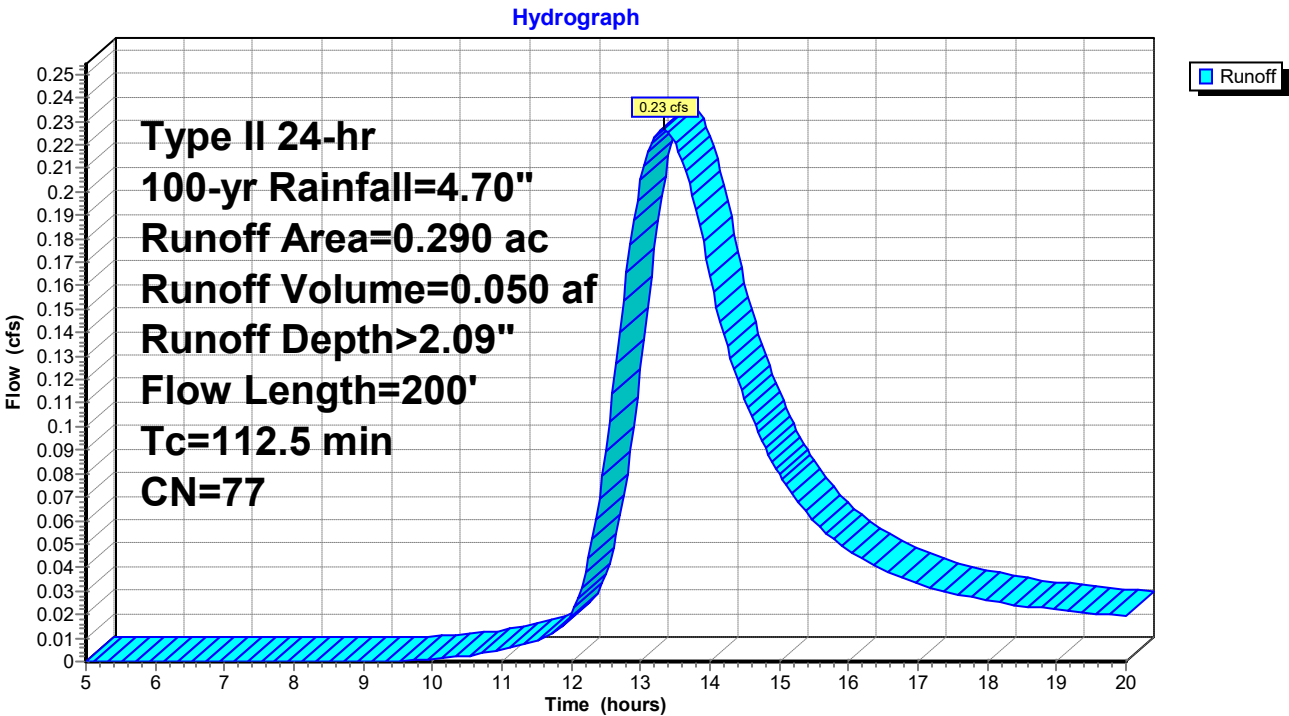
Runoff = 0.23 cfs @ 13.35 hrs, Volume= 0.050 af, Depth> 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 11: DA-11

Runoff = 0.59 cfs @ 12.25 hrs, Volume= 0.052 af, Depth> 2.17"

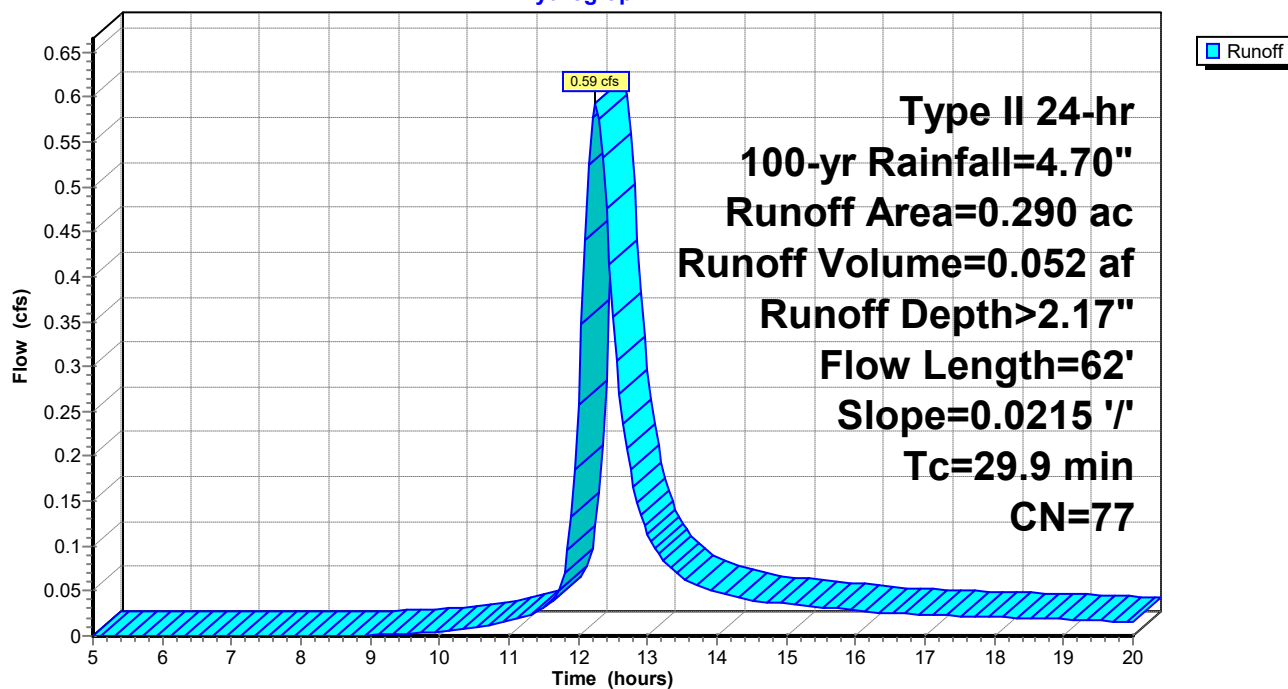
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.290	77	Woods, Good, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.9	62	0.0215	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 12: DA-12

Runoff = 3.06 cfs @ 13.32 hrs, Volume= 0.691 af, Depth> 2.01"

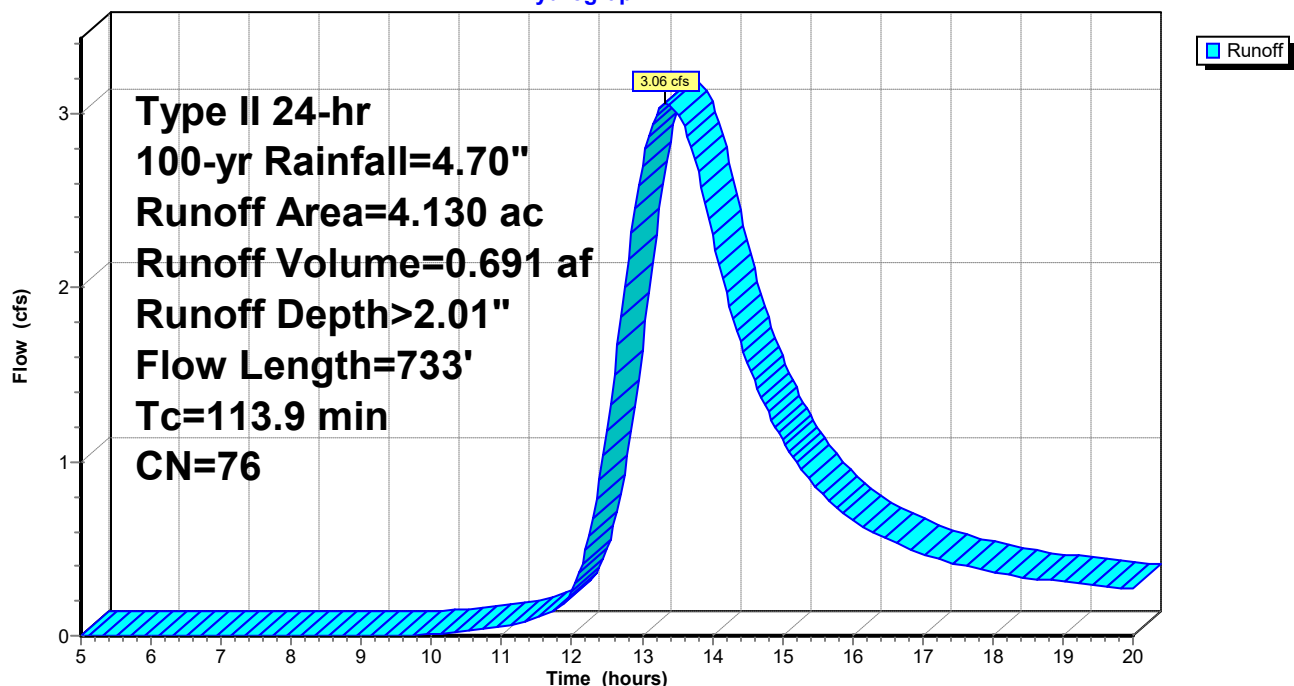
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	77	Woods, Good, HSG D
2.620	70	Woods, Good, HSG C
4.130	76	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.8	150	0.0074	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
113.9	733	Total			

Subcatchment 12: DA-12

Hydrograph



Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 4.87 cfs @ 11.95 hrs, Volume= 0.223 af, Depth> 3.27"

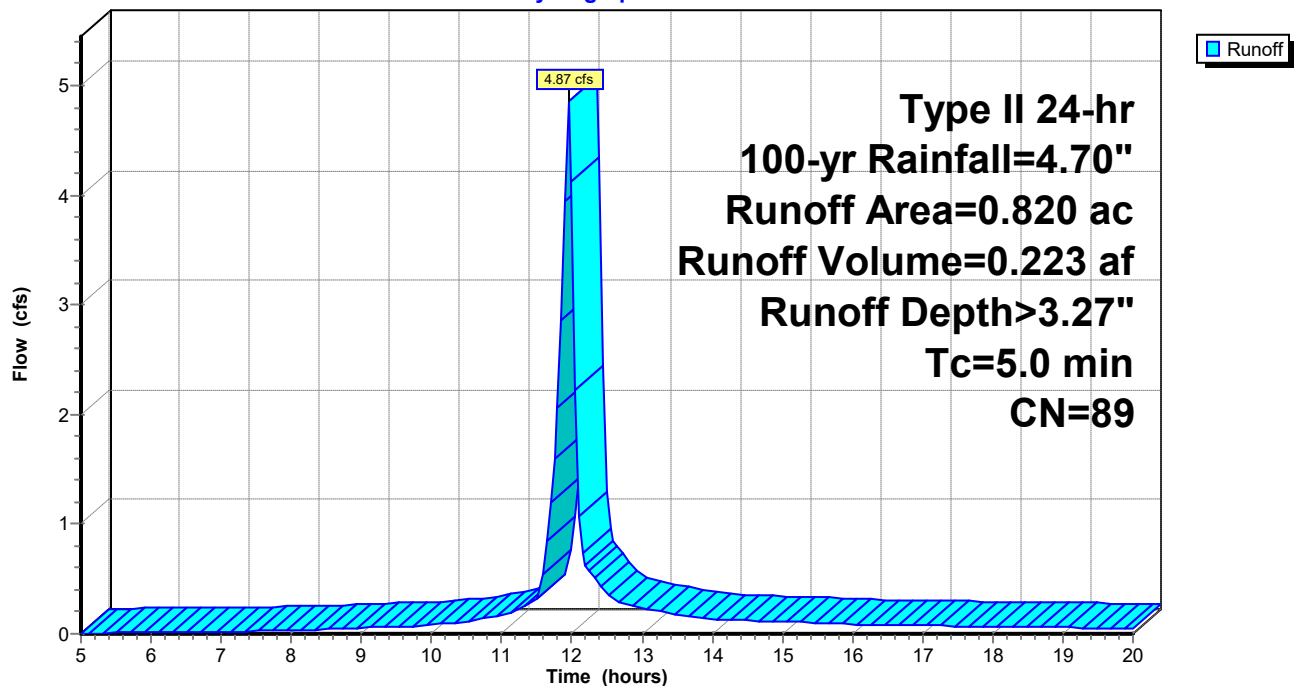
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph





DA-01



DA-02



DA-03



DA-04



DA-05



DA-06



DA-07



DA-08



DA-09



DA-10



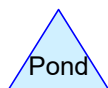
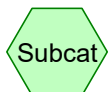
DA-11



DA-12



DA-13



Routing Diagram for Post-Dev_01

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-yr	Type II 24-hr		Default	24.00	1	1.87	2
2	2-yr	Type II 24-hr		Default	24.00	1	2.20	2
3	10-yr	Type II 24-hr		Default	24.00	1	3.16	2
4	100-yr	Type II 24-hr		Default	24.00	1	4.70	2

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
2.620	71	Meadow, non-grazed, HSG C (12)
11.398	78	Meadow, non-grazed, HSG D (01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12)
2.540	98	Paved parking, HSG D (02, 12, 13)
0.400	79	Woods/grass comb., Good, HSG D (13)
16.958	80	TOTAL AREA

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Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
2.620	HSG C	12
14.338	HSG D	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13
0.000	Other	
16.958		TOTAL AREA

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Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	2.620	11.398	0.000	14.018	Meadow, non-grazed	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12
0.000	0.000	0.000	2.540	0.000	2.540	Paved parking	02, 12, 13
0.000	0.000	0.000	0.400	0.000	0.400	Woods/grass comb., Good	13
0.000	0.000	2.620	14.338	0.000	16.958	TOTAL AREA	

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Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Node Name
1	02	0.00	0.00	40.0	0.0100	0.011	0.0	18.0	0.0	

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Type II 24-hr 1-yr Rainfall=1.87"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>0.36" Flow Length=235' Tc=48.8 min CN=78 Runoff=0.28 cfs 0.040 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>0.79" Flow Length=916' Tc=7.6 min CN=88 Runoff=3.74 cfs 0.172 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=100' Slope=0.0650 '/' Tc=28.1 min CN=78 Runoff=0.06 cfs 0.005 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=100' Slope=0.0300 '/' Tc=38.3 min CN=78 Runoff=0.04 cfs 0.005 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>0.34" Flow Length=494' Tc=115.6 min CN=78 Runoff=0.51 cfs 0.132 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=179' Tc=32.5 min CN=78 Runoff=0.14 cfs 0.015 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=330' Tc=42.0 min CN=78 Runoff=0.15 cfs 0.020 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>0.35" Flow Length=417' Tc=59.3 min CN=78 Runoff=0.12 cfs 0.020 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=150' Slope=0.0700 '/' Tc=37.8 min CN=78 Runoff=0.16 cfs 0.019 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.34" Flow Length=200' Tc=112.5 min CN=78 Runoff=0.03 cfs 0.008 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.36" Flow Length=62' Slope=0.0200 '/' Tc=30.8 min CN=78 Runoff=0.08 cfs 0.009 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>0.31" Flow Length=733' Tc=116.0 min CN=77 Runoff=0.41 cfs 0.107 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>0.85" Tc=5.0 min CN=89 Runoff=1.36 cfs 0.058 af

Total Runoff Area = 16.958 ac Runoff Volume = 0.610 af Average Runoff Depth = 0.43"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

Post-Dev_01

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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 01: DA-01

Runoff = 0.28 cfs @ 12.55 hrs, Volume= 0.040 af, Depth> 0.36"

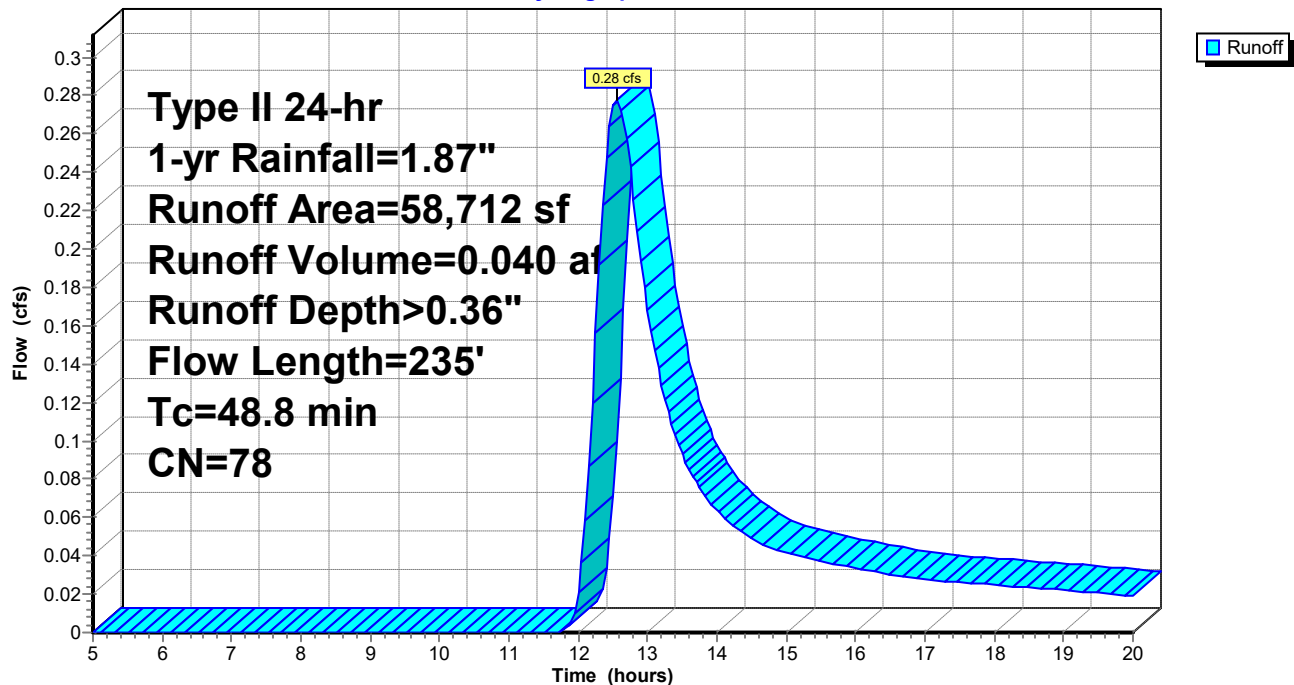
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (sf)	CN	Description
58,712	78	Meadow, non-grazed, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.3	150	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
48.8	235	Total			

Subcatchment 01: DA-01

Hydrograph



Post-Dev_01

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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 02: DA-02

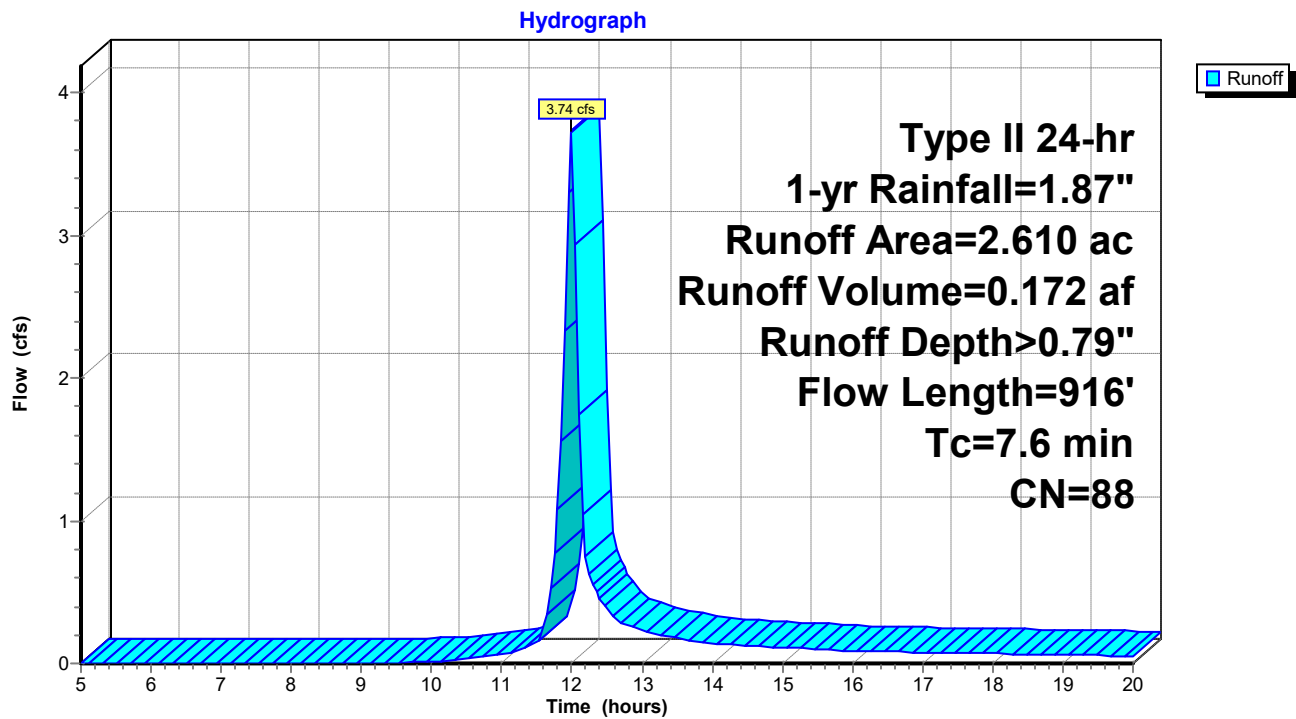
Runoff = 3.74 cfs @ 11.99 hrs, Volume= 0.172 af, Depth> 0.79"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
1.240	78	Meadow, non-grazed, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02



Post-Dev_01

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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 03: DA-03

Runoff = 0.06 cfs @ 12.26 hrs, Volume= 0.005 af, Depth> 0.36"

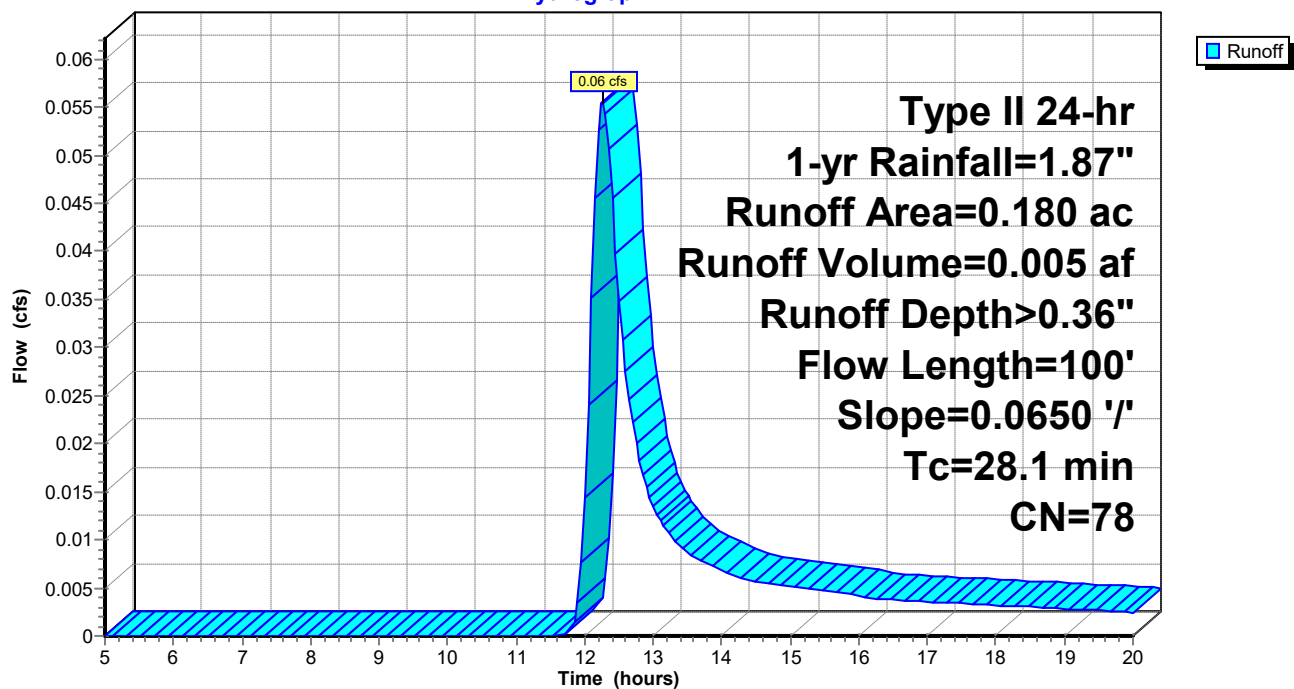
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.180	78	Meadow, non-grazed, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	100	0.0650	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 04: DA-04

Runoff = 0.04 cfs @ 12.40 hrs, Volume= 0.005 af, Depth> 0.36"

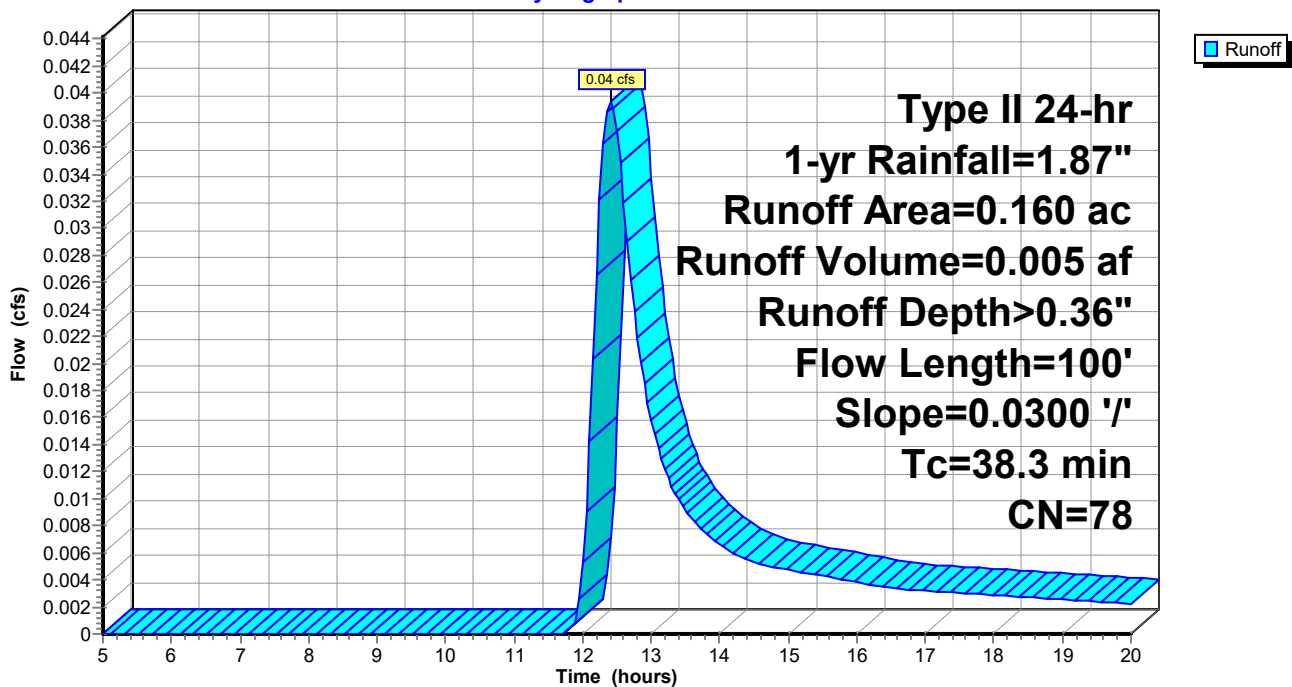
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.160	78	Meadow, non-grazed, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.3	100	0.0300	0.04		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 05: DA-05

Runoff = 0.51 cfs @ 13.51 hrs, Volume= 0.132 af, Depth> 0.34"

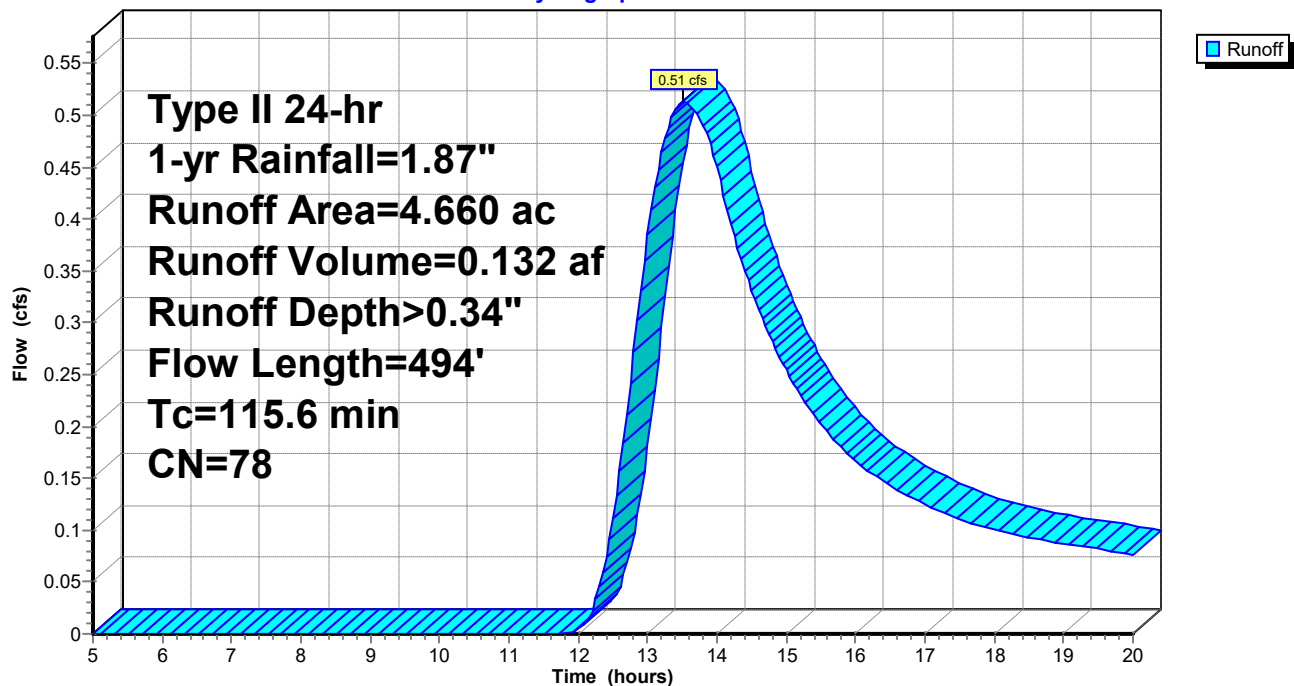
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
4.660	78	Meadow, non-grazed, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
115.6	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 06: DA-06

Runoff = 0.14 cfs @ 12.32 hrs, Volume= 0.015 af, Depth> 0.36"

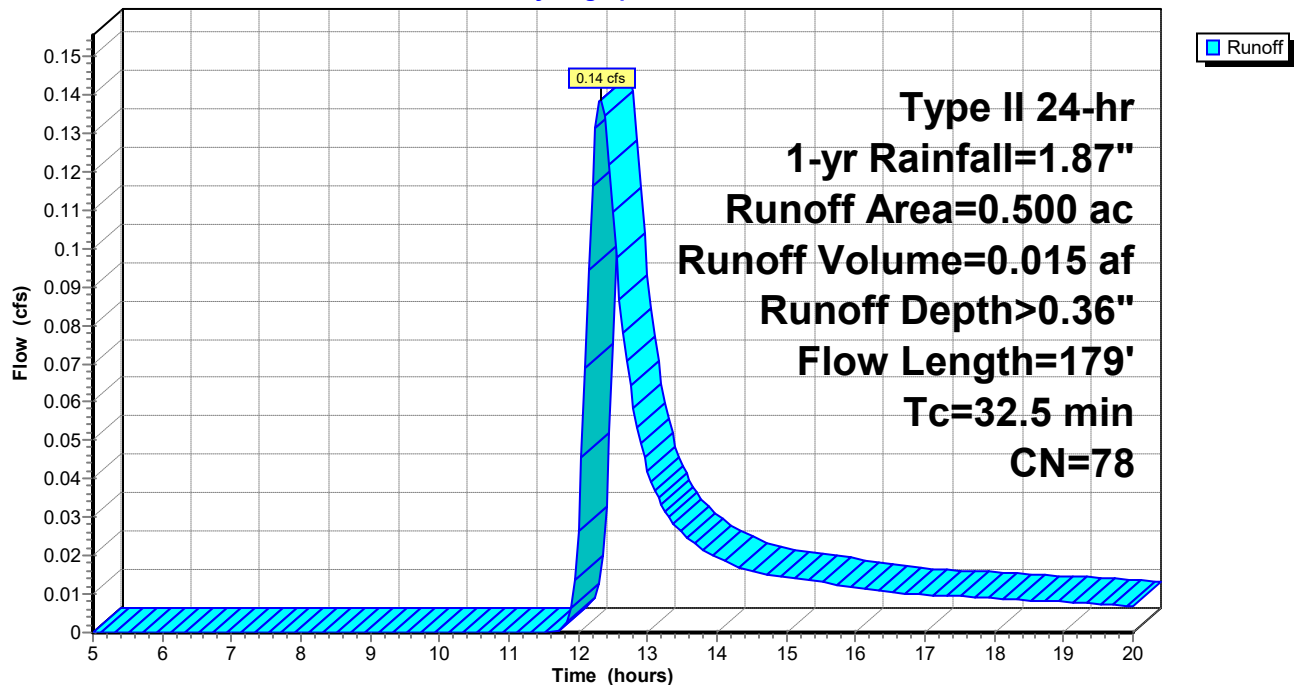
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.500	78	Meadow, non-grazed, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 07: DA-07

Runoff = 0.15 cfs @ 12.46 hrs, Volume= 0.020 af, Depth> 0.36"

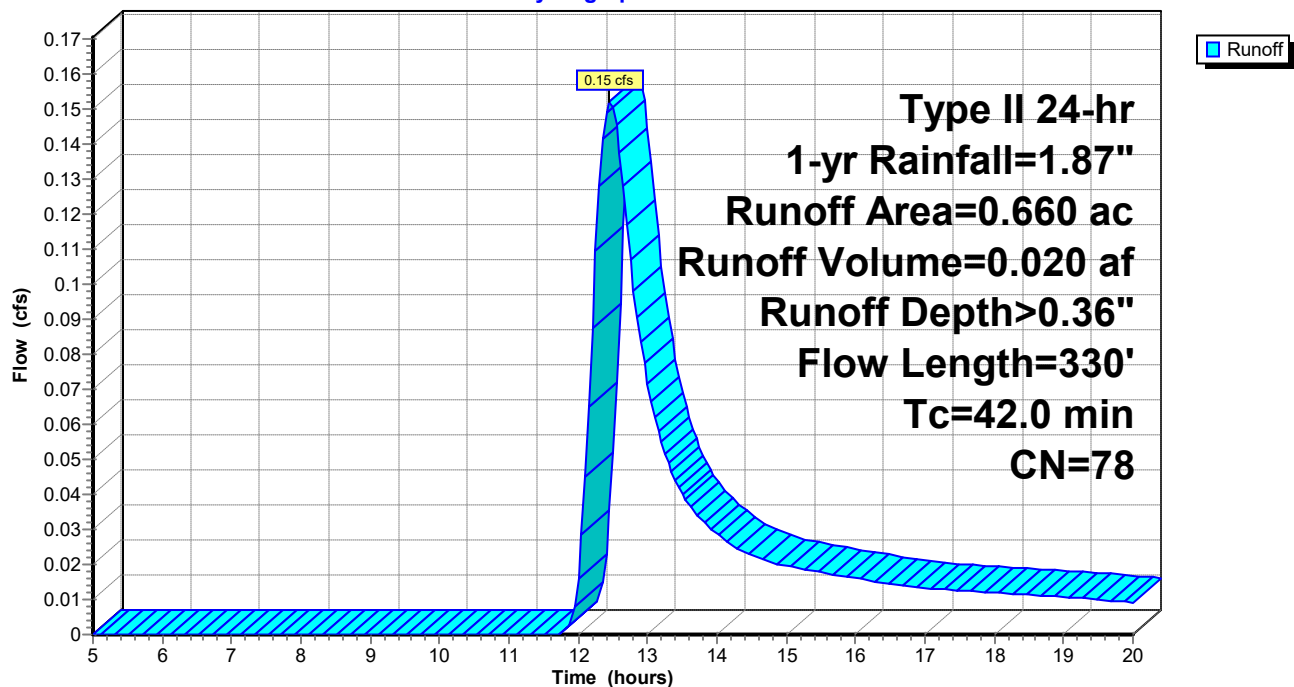
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.660	78	Meadow, non-grazed, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.0	330	Total			

Subcatchment 07: DA-07

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 08: DA-08

Runoff = 0.12 cfs @ 12.71 hrs, Volume= 0.020 af, Depth> 0.35"

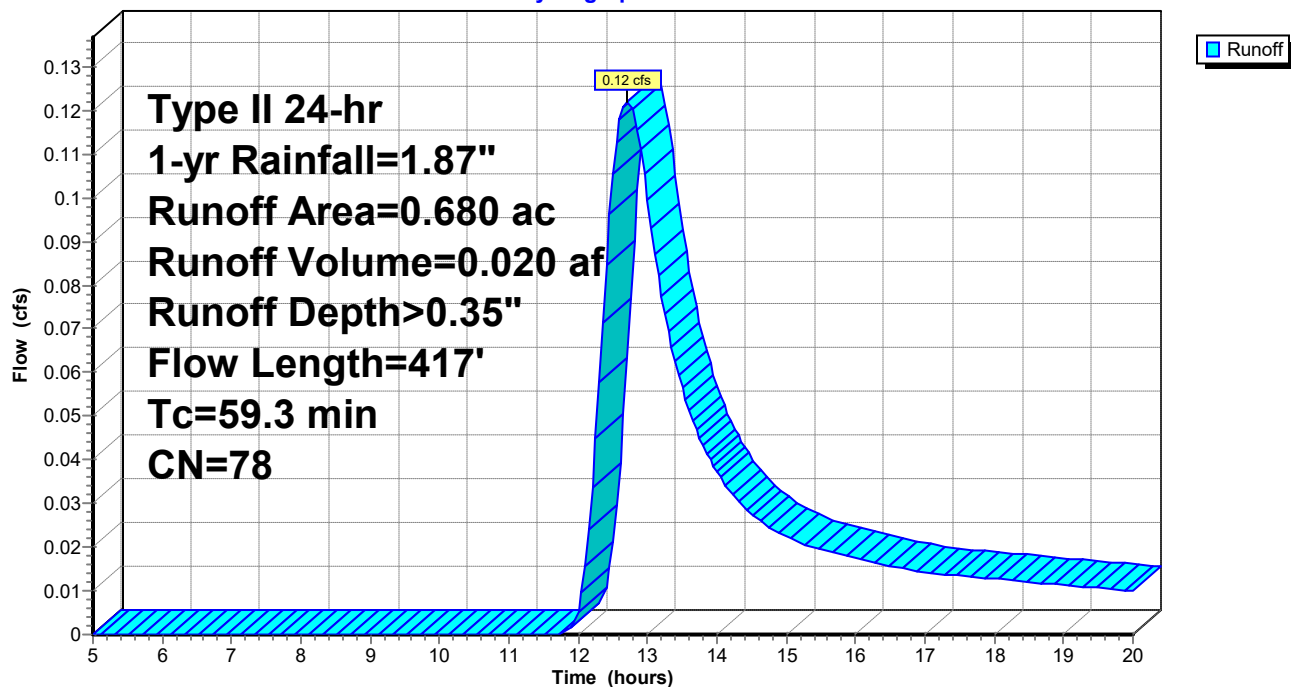
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.680	78	Meadow, non-grazed, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.0	150	0.0300	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
59.3	417	Total			

Subcatchment 08: DA-08

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 09: DA-09

Runoff = 0.16 cfs @ 12.40 hrs, Volume= 0.019 af, Depth> 0.36"

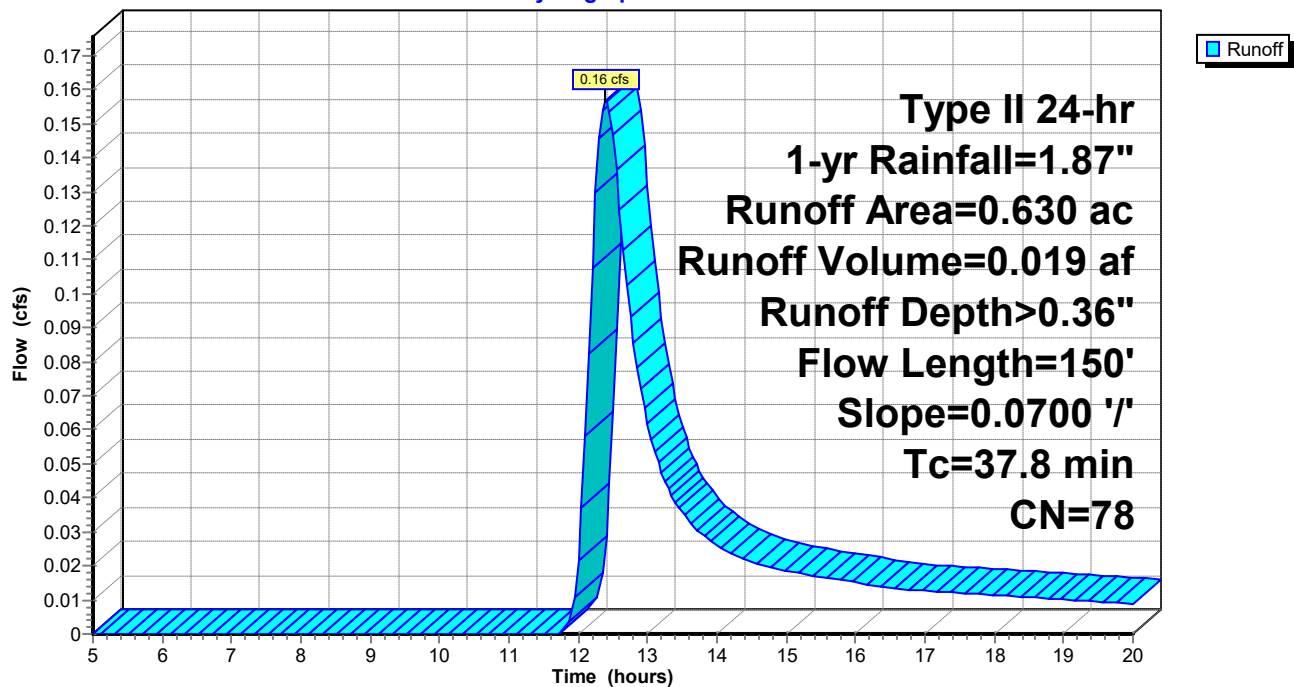
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.630	78	Meadow, non-grazed, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 10: DA-10

Runoff = 0.03 cfs @ 13.42 hrs, Volume= 0.008 af, Depth> 0.34"

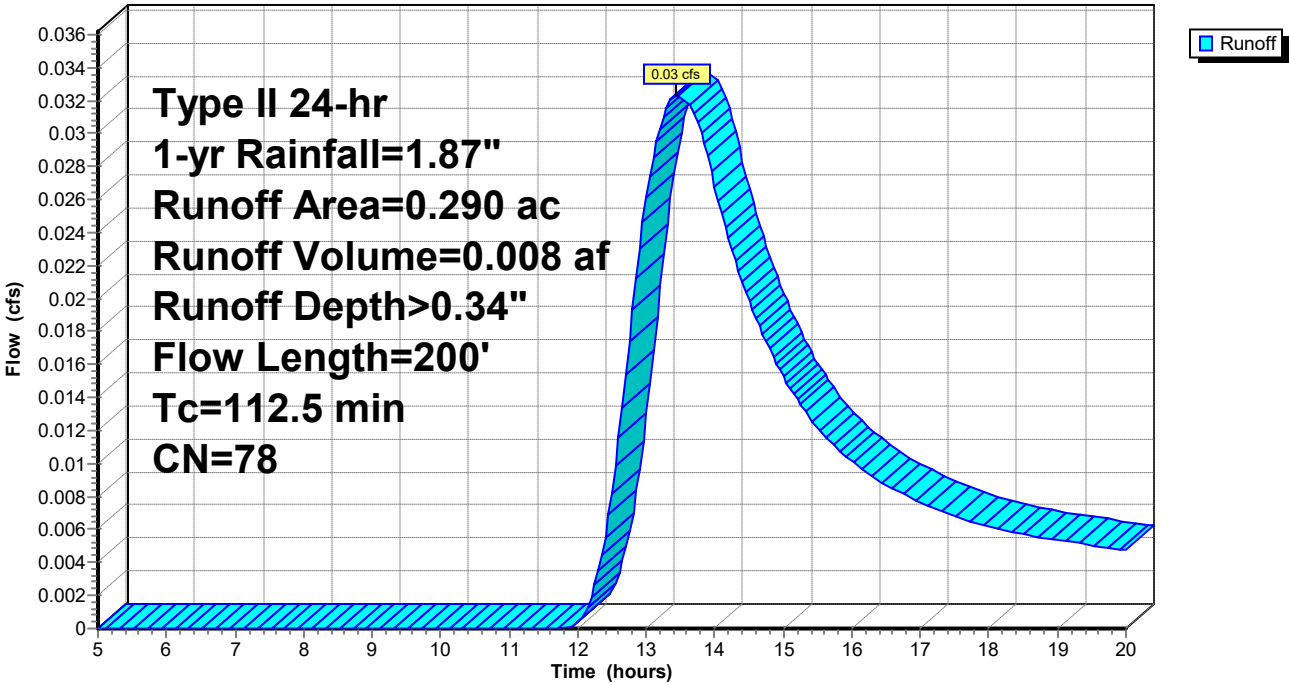
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 11: DA-11

Runoff = 0.08 cfs @ 12.30 hrs, Volume= 0.009 af, Depth> 0.36"

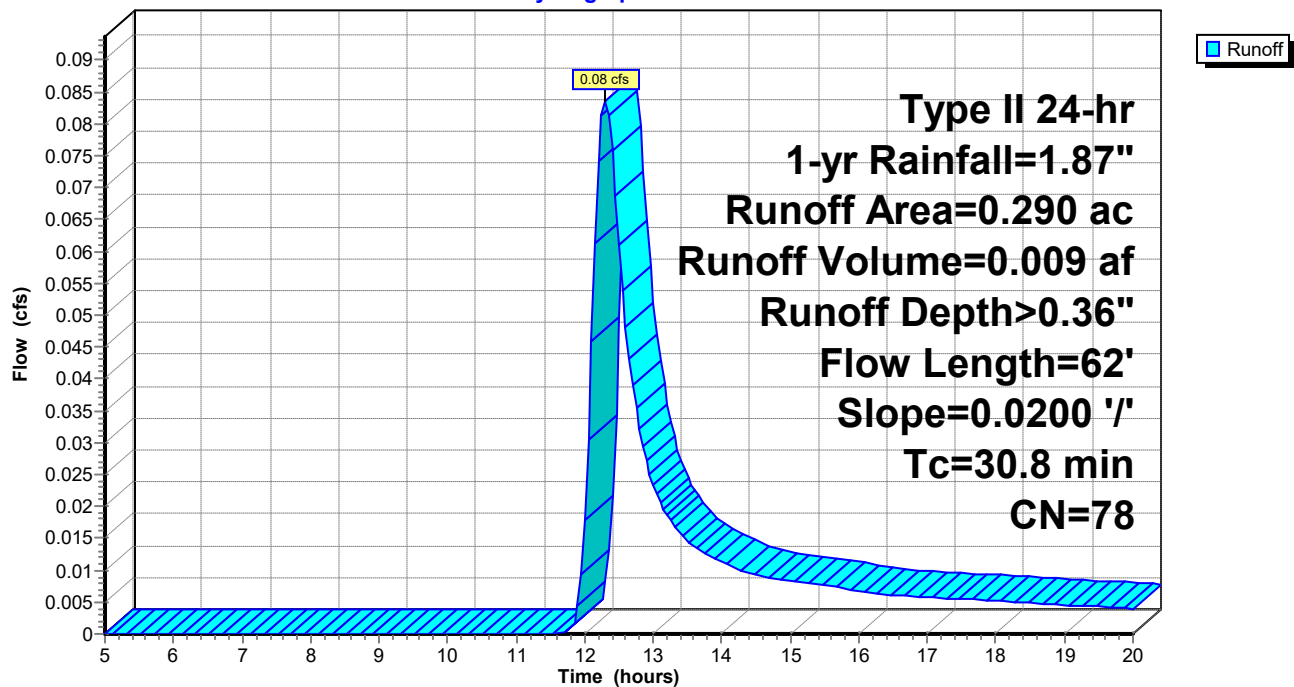
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	62	0.0200	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 1-yr Rainfall=1.87"

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Summary for Subcatchment 12: DA-12

Runoff = 0.41 cfs @ 13.55 hrs, Volume= 0.107 af, Depth> 0.31"

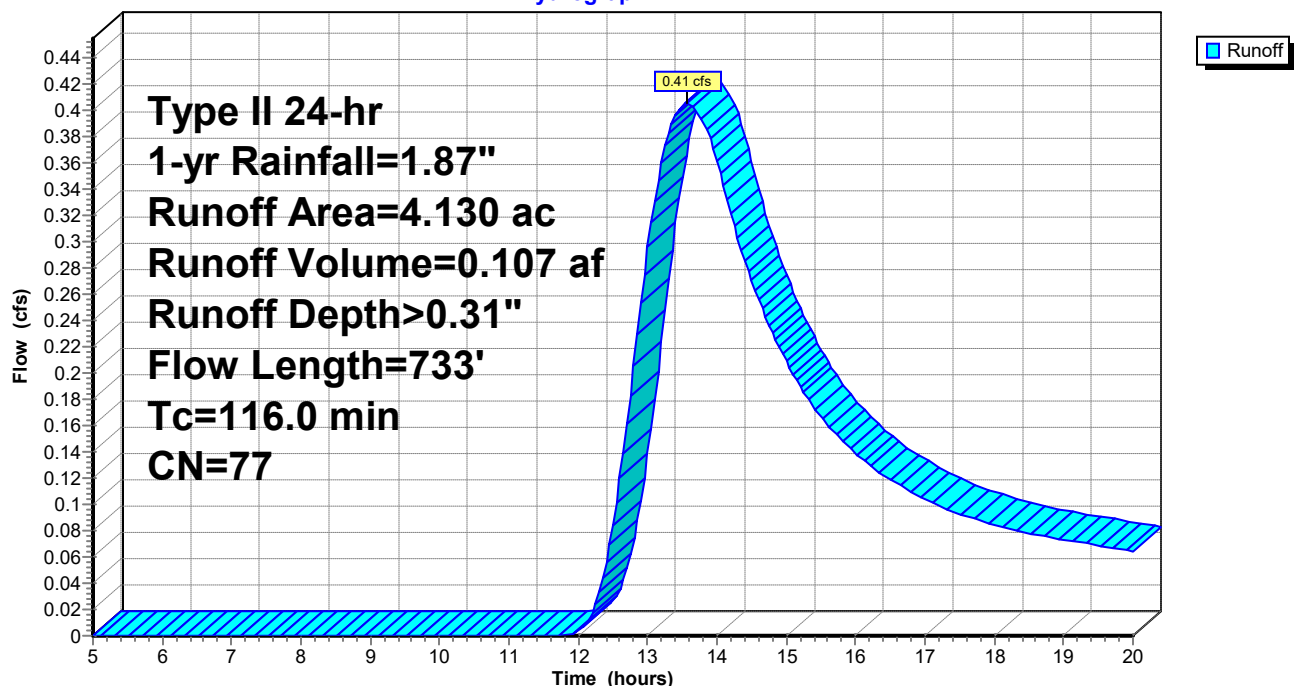
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	78	Meadow, non-grazed, HSG D
2.620	71	Meadow, non-grazed, HSG C
4.130	77	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
116.0	733	Total			

Subcatchment 12: DA-12

Hydrograph



Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 1.36 cfs @ 11.96 hrs, Volume= 0.058 af, Depth> 0.85"

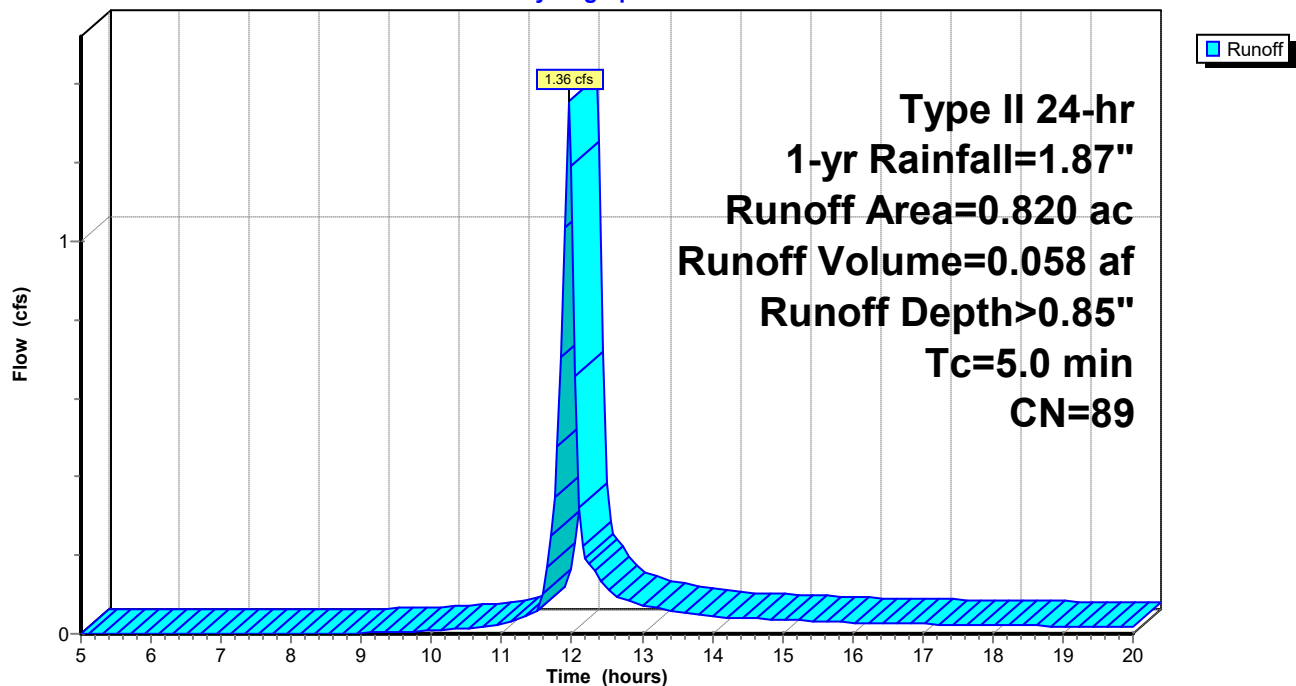
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs
Type II 24-hr 1-yr Rainfall=1.87"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>0.53" Flow Length=235' Tc=48.8 min CN=78 Runoff=0.44 cfs 0.059 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>1.04" Flow Length=916' Tc=7.6 min CN=88 Runoff=4.88 cfs 0.226 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=100' Slope=0.0650 '/' Tc=28.1 min CN=78 Runoff=0.09 cfs 0.008 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=100' Slope=0.0300 '/' Tc=38.3 min CN=78 Runoff=0.06 cfs 0.007 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>0.50" Flow Length=494' Tc=115.6 min CN=78 Runoff=0.80 cfs 0.195 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=179' Tc=32.5 min CN=78 Runoff=0.22 cfs 0.022 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=330' Tc=42.0 min CN=78 Runoff=0.24 cfs 0.029 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>0.52" Flow Length=417' Tc=59.3 min CN=78 Runoff=0.19 cfs 0.030 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=150' Slope=0.0700 '/' Tc=37.8 min CN=78 Runoff=0.25 cfs 0.028 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.50" Flow Length=200' Tc=112.5 min CN=78 Runoff=0.05 cfs 0.012 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>0.53" Flow Length=62' Slope=0.0200 '/' Tc=30.8 min CN=78 Runoff=0.13 cfs 0.013 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>0.47" Flow Length=733' Tc=116.0 min CN=77 Runoff=0.64 cfs 0.160 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>1.11" Tc=5.0 min CN=89 Runoff=1.76 cfs 0.076 af

Total Runoff Area = 16.958 ac Runoff Volume = 0.865 af Average Runoff Depth = 0.61"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 01: DA-01

Runoff = 0.44 cfs @ 12.53 hrs, Volume= 0.059 af, Depth> 0.53"

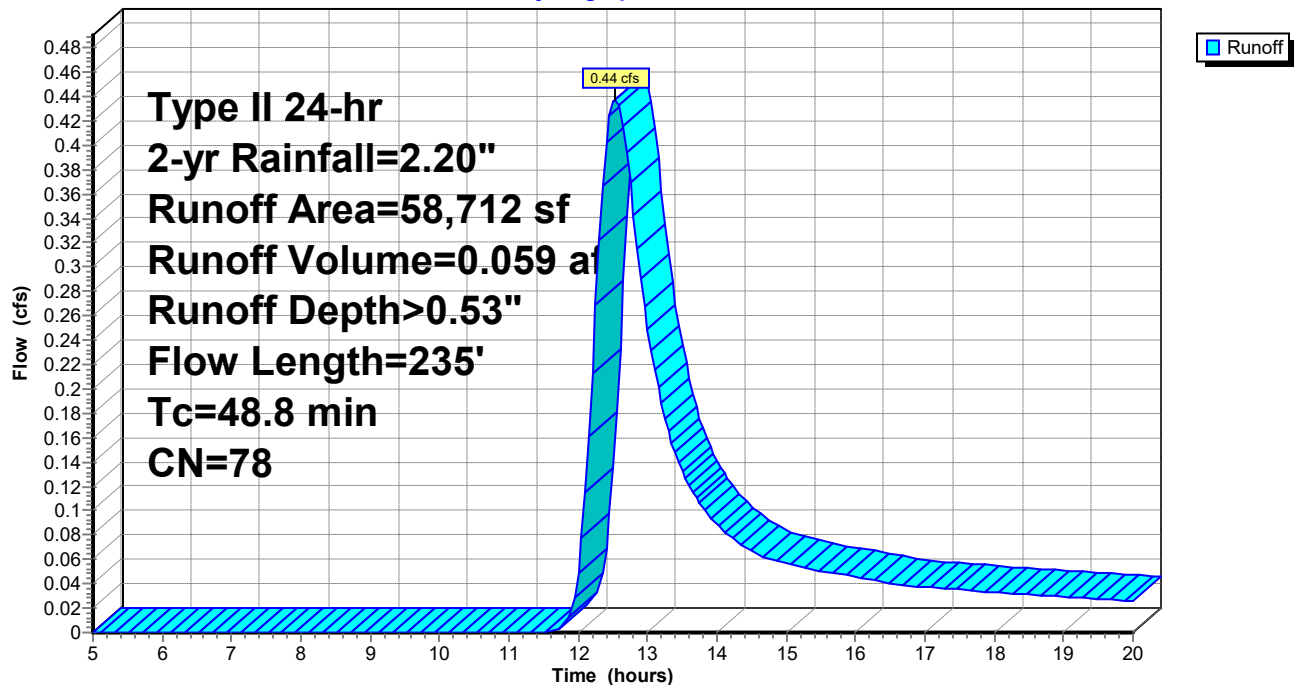
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (sf)	CN	Description
58,712	78	Meadow, non-grazed, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.3	150	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
48.8	235	Total			

Subcatchment 01: DA-01

Hydrograph



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Summary for Subcatchment 02: DA-02

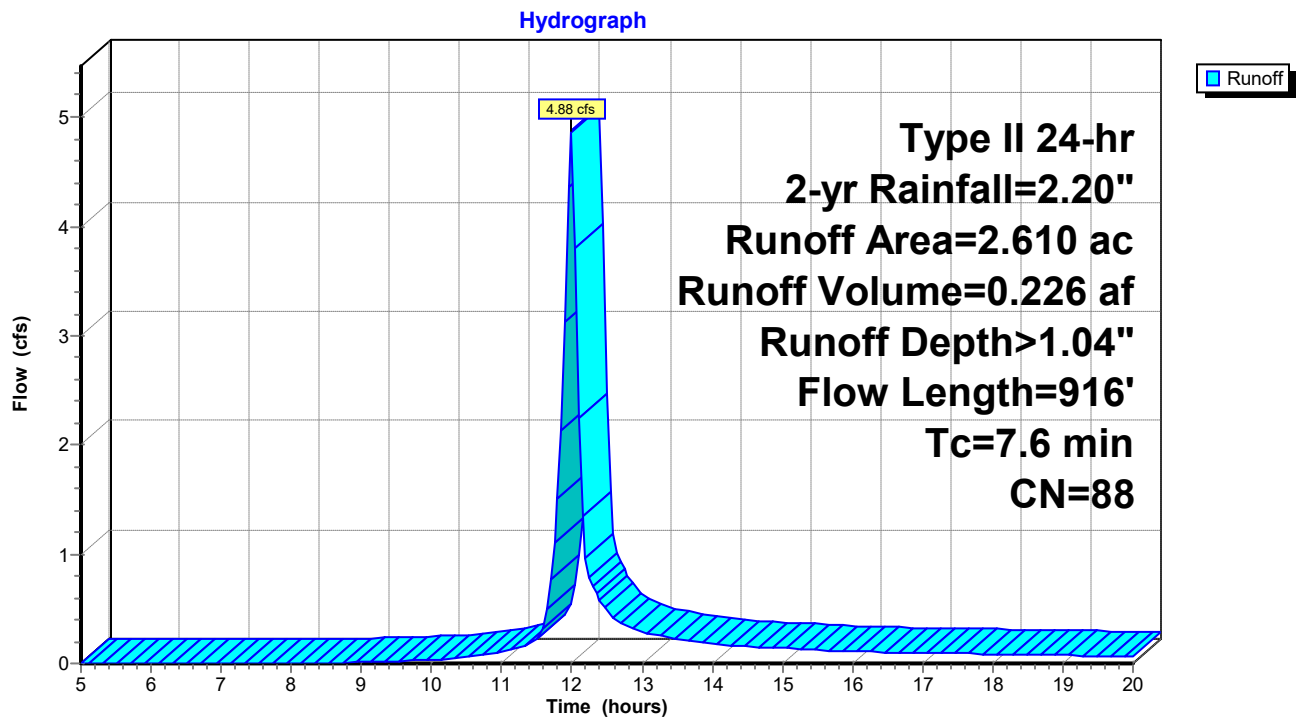
Runoff = 4.88 cfs @ 11.99 hrs, Volume= 0.226 af, Depth> 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
1.240	78	Meadow, non-grazed, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 03: DA-03

Runoff = 0.09 cfs @ 12.25 hrs, Volume= 0.008 af, Depth> 0.53"

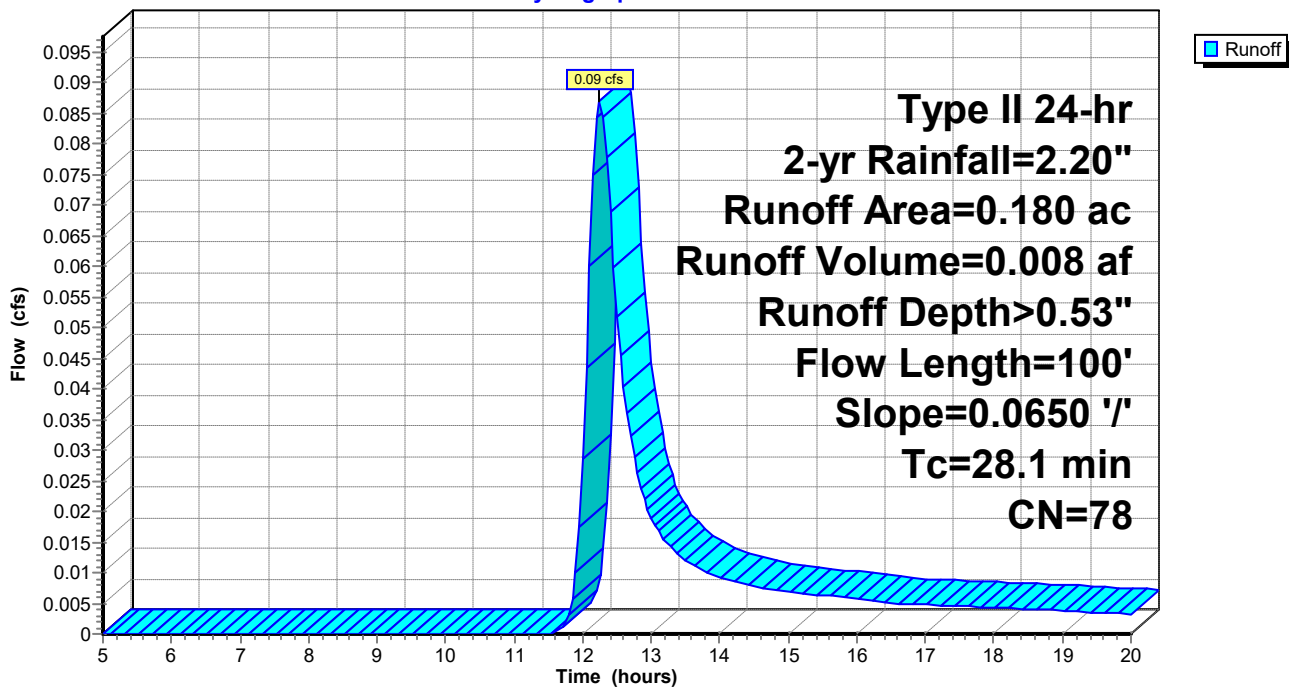
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.180	78	Meadow, non-grazed, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	100	0.0650	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 04: DA-04

Runoff = 0.06 cfs @ 12.39 hrs, Volume= 0.007 af, Depth> 0.53"

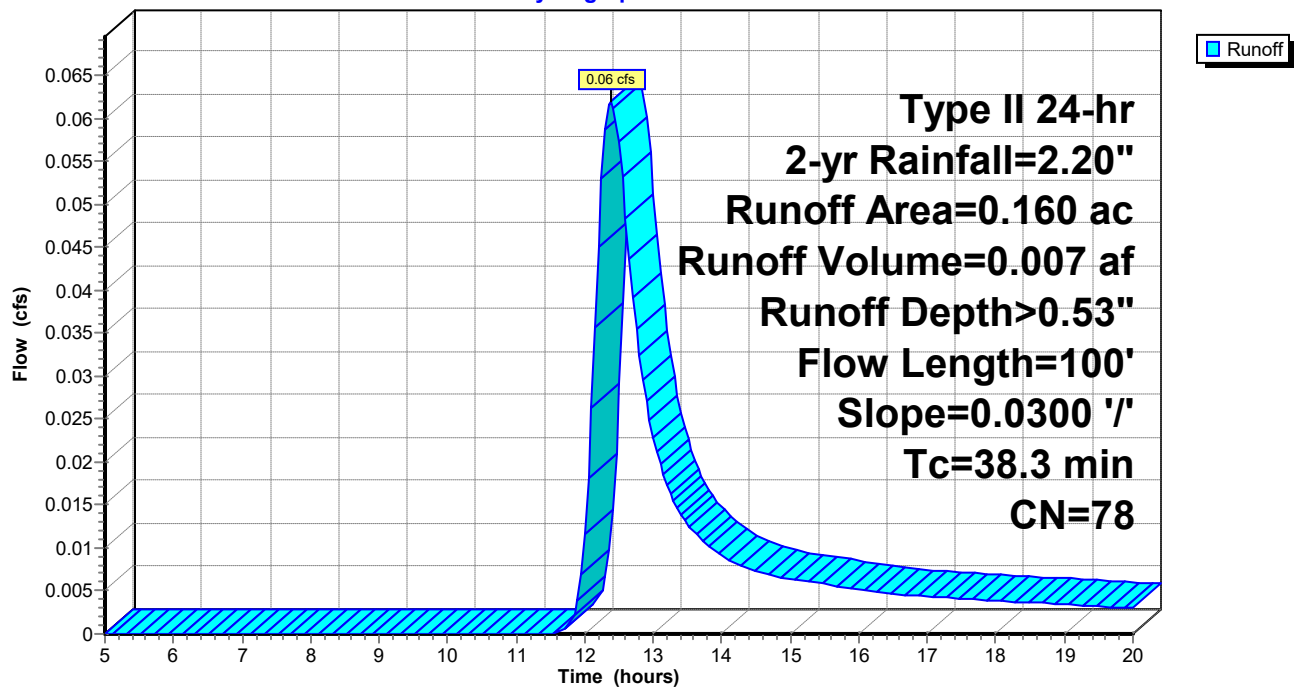
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.160	78	Meadow, non-grazed, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.3	100	0.0300	0.04		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 05: DA-05

Runoff = 0.80 cfs @ 13.50 hrs, Volume= 0.195 af, Depth> 0.50"

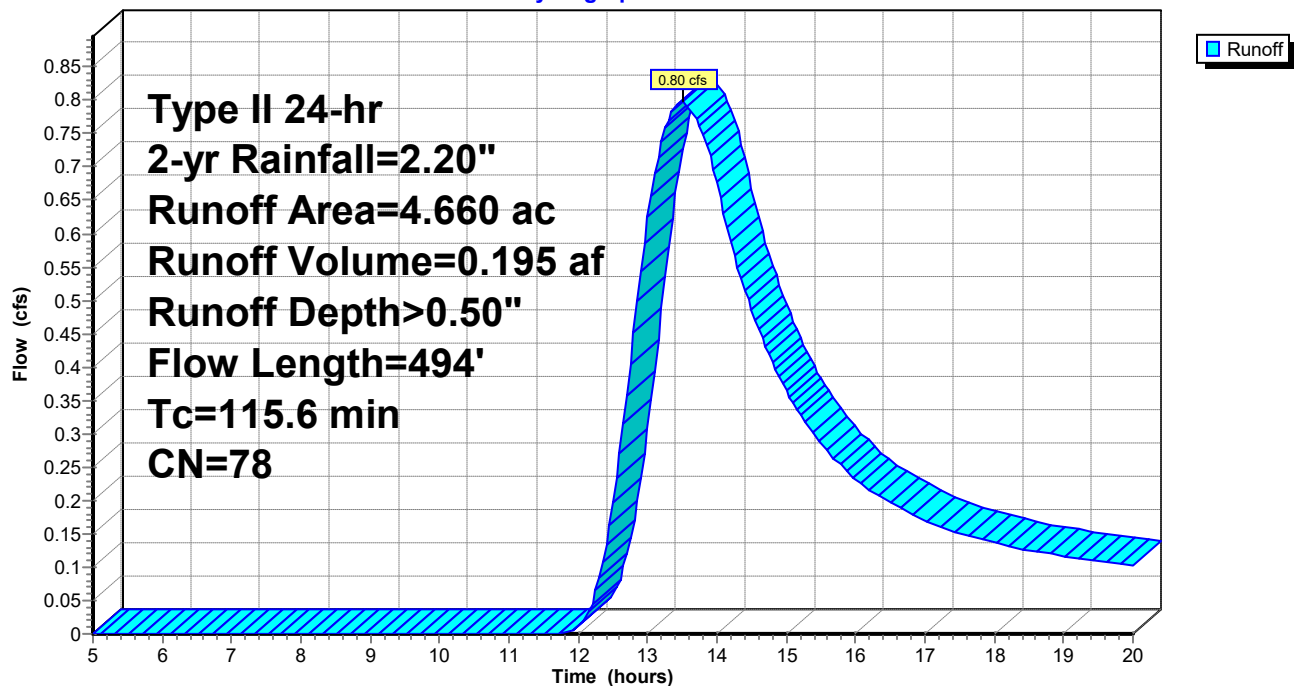
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
4.660	78	Meadow, non-grazed, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
115.6	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 06: DA-06

Runoff = 0.22 cfs @ 12.31 hrs, Volume= 0.022 af, Depth> 0.53"

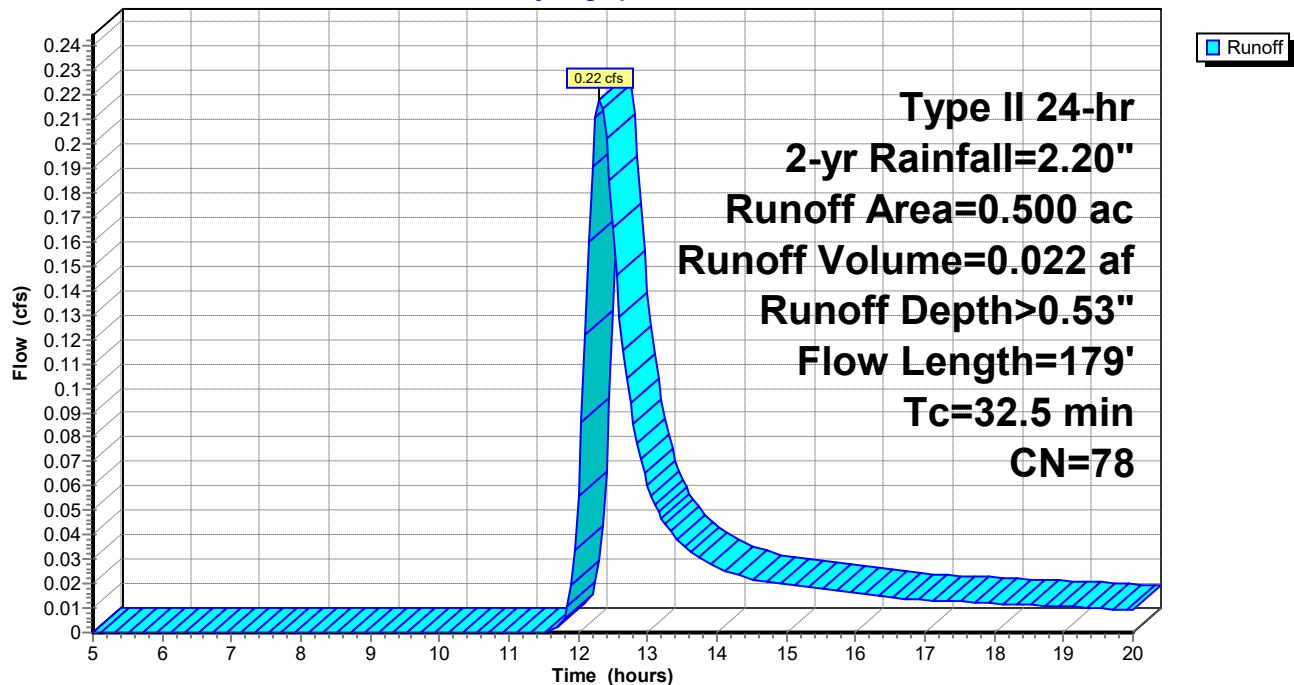
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.500	78	Meadow, non-grazed, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 07: DA-07

Runoff = 0.24 cfs @ 12.44 hrs, Volume= 0.029 af, Depth> 0.53"

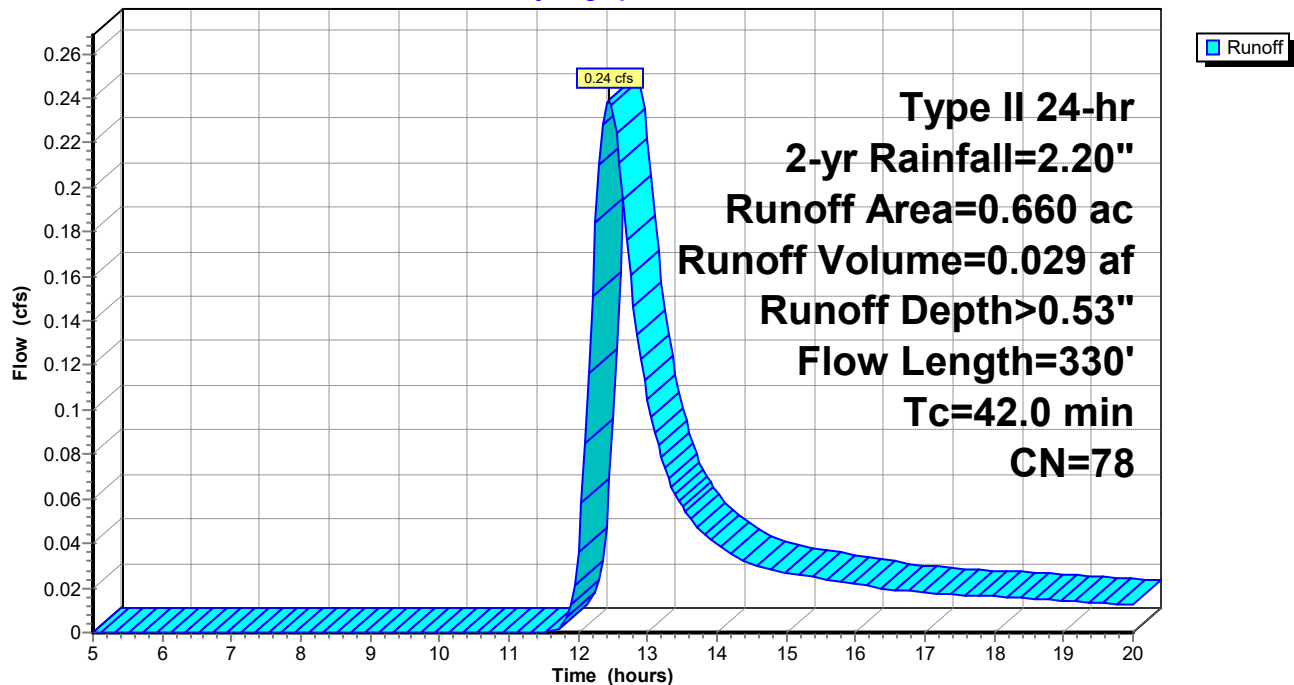
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.660	78	Meadow, non-grazed, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.0	330	Total			

Subcatchment 07: DA-07

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 08: DA-08

Runoff = 0.19 cfs @ 12.69 hrs, Volume= 0.030 af, Depth> 0.52"

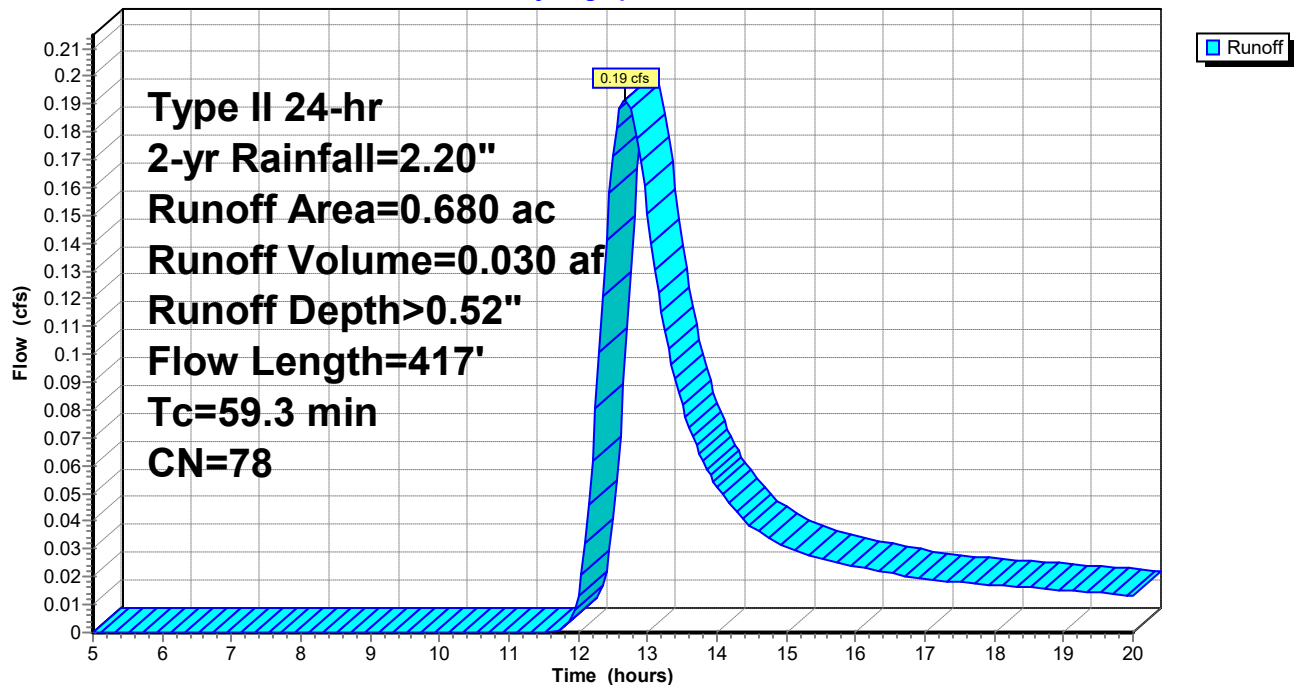
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.680	78	Meadow, non-grazed, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.0	150	0.0300	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
59.3	417	Total			

Subcatchment 08: DA-08

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 09: DA-09

Runoff = 0.25 cfs @ 12.38 hrs, Volume= 0.028 af, Depth> 0.53"

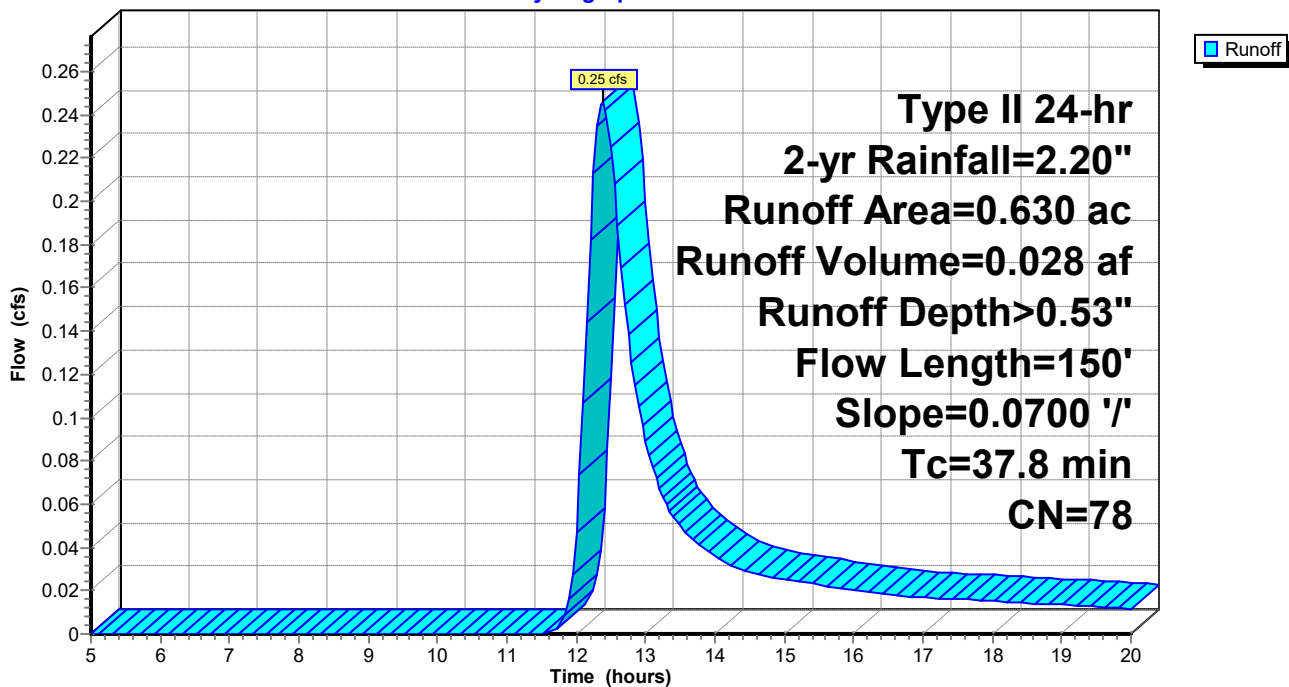
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.630	78	Meadow, non-grazed, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 10: DA-10

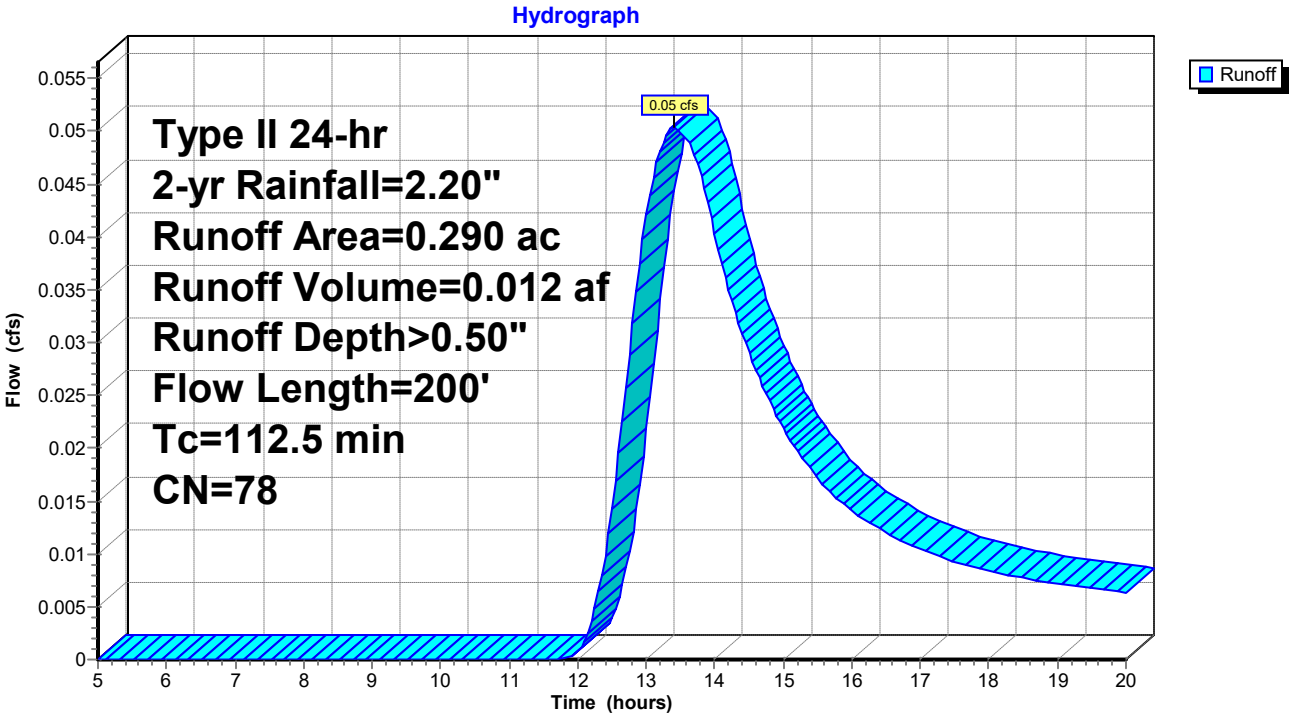
Runoff = 0.05 cfs @ 13.40 hrs, Volume= 0.012 af, Depth> 0.50"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 11: DA-11

Runoff = 0.13 cfs @ 12.29 hrs, Volume= 0.013 af, Depth> 0.53"

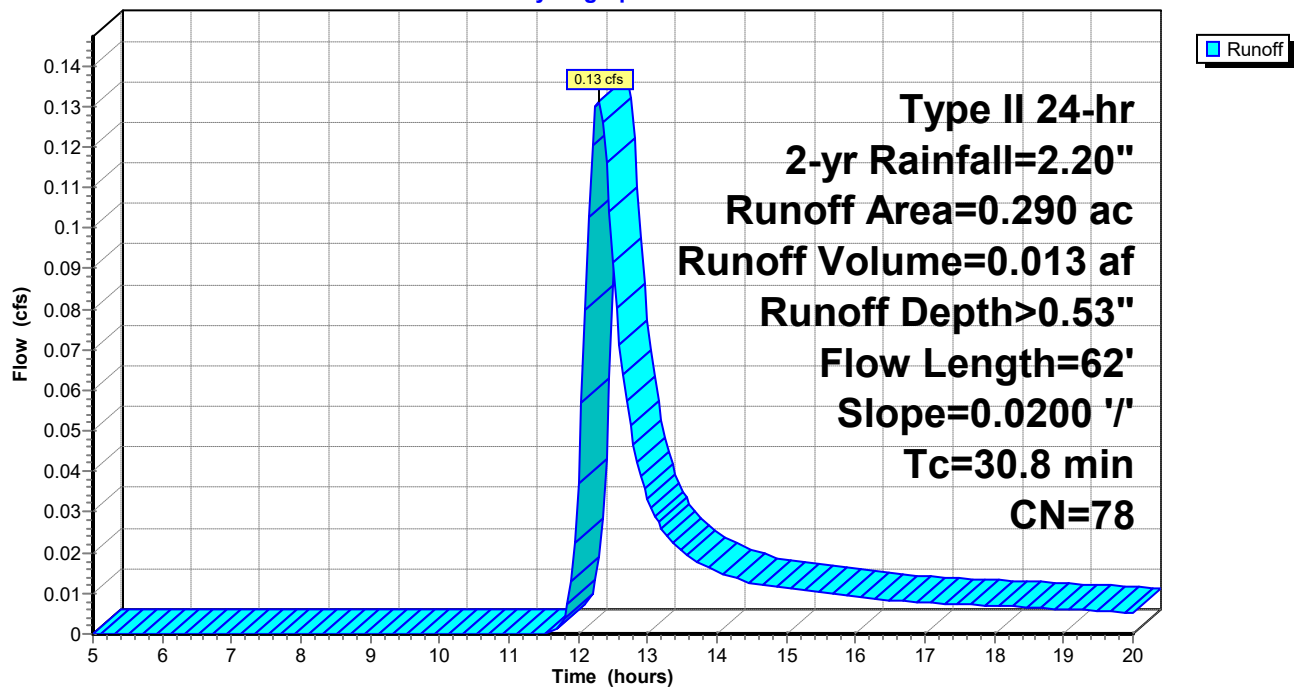
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	62	0.0200	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.20"

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Summary for Subcatchment 12: DA-12

Runoff = 0.64 cfs @ 13.53 hrs, Volume= 0.160 af, Depth> 0.47"

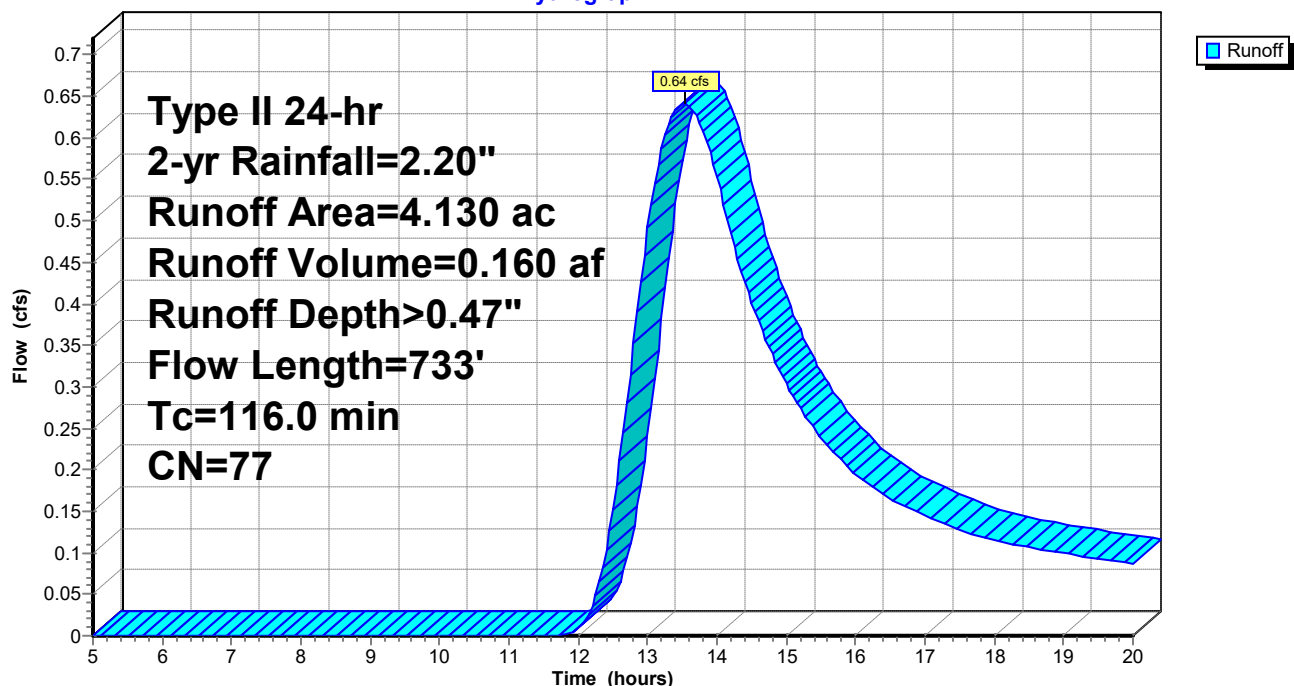
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	78	Meadow, non-grazed, HSG D
2.620	71	Meadow, non-grazed, HSG C
4.130	77	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
116.0	733	Total			

Subcatchment 12: DA-12

Hydrograph



Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 1.76 cfs @ 11.96 hrs, Volume= 0.076 af, Depth> 1.11"

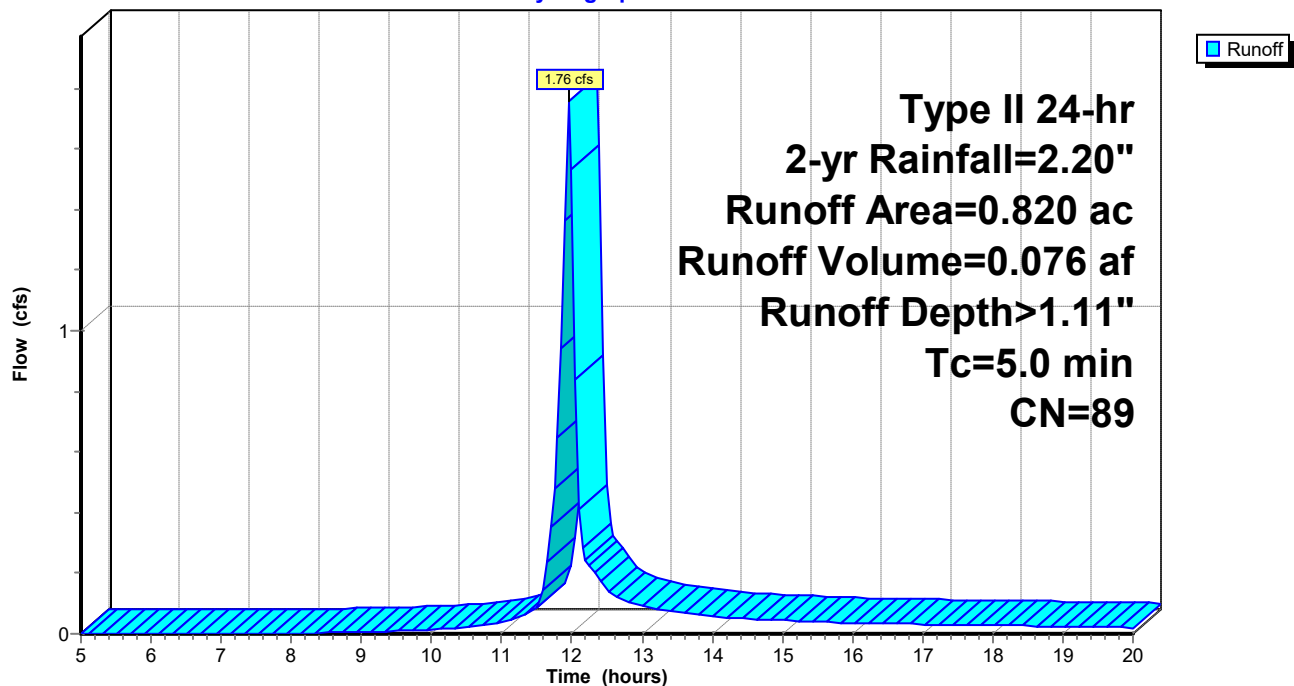
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs
Type II 24-hr 2-yr Rainfall=2.20"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>1.11" Flow Length=235' Tc=48.8 min CN=78 Runoff=1.00 cfs 0.125 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>1.82" Flow Length=916' Tc=7.6 min CN=88 Runoff=8.35 cfs 0.396 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=100' Slope=0.0650 '/' Tc=28.1 min CN=78 Runoff=0.20 cfs 0.017 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=100' Slope=0.0300 '/' Tc=38.3 min CN=78 Runoff=0.14 cfs 0.015 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>1.07" Flow Length=494' Tc=115.6 min CN=78 Runoff=1.80 cfs 0.417 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=179' Tc=32.5 min CN=78 Runoff=0.49 cfs 0.047 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=330' Tc=42.0 min CN=78 Runoff=0.54 cfs 0.061 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>1.11" Flow Length=417' Tc=59.3 min CN=78 Runoff=0.44 cfs 0.063 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=150' Slope=0.0700 '/' Tc=37.8 min CN=78 Runoff=0.56 cfs 0.059 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>1.07" Flow Length=200' Tc=112.5 min CN=78 Runoff=0.11 cfs 0.026 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>1.12" Flow Length=62' Slope=0.0200 '/' Tc=30.8 min CN=78 Runoff=0.30 cfs 0.027 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>1.02" Flow Length=733' Tc=116.0 min CN=77 Runoff=1.49 cfs 0.350 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>1.91" Tc=5.0 min CN=89 Runoff=2.94 cfs 0.130 af

Total Runoff Area = 16.958 ac Runoff Volume = 1.732 af Average Runoff Depth = 1.23"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 01: DA-01

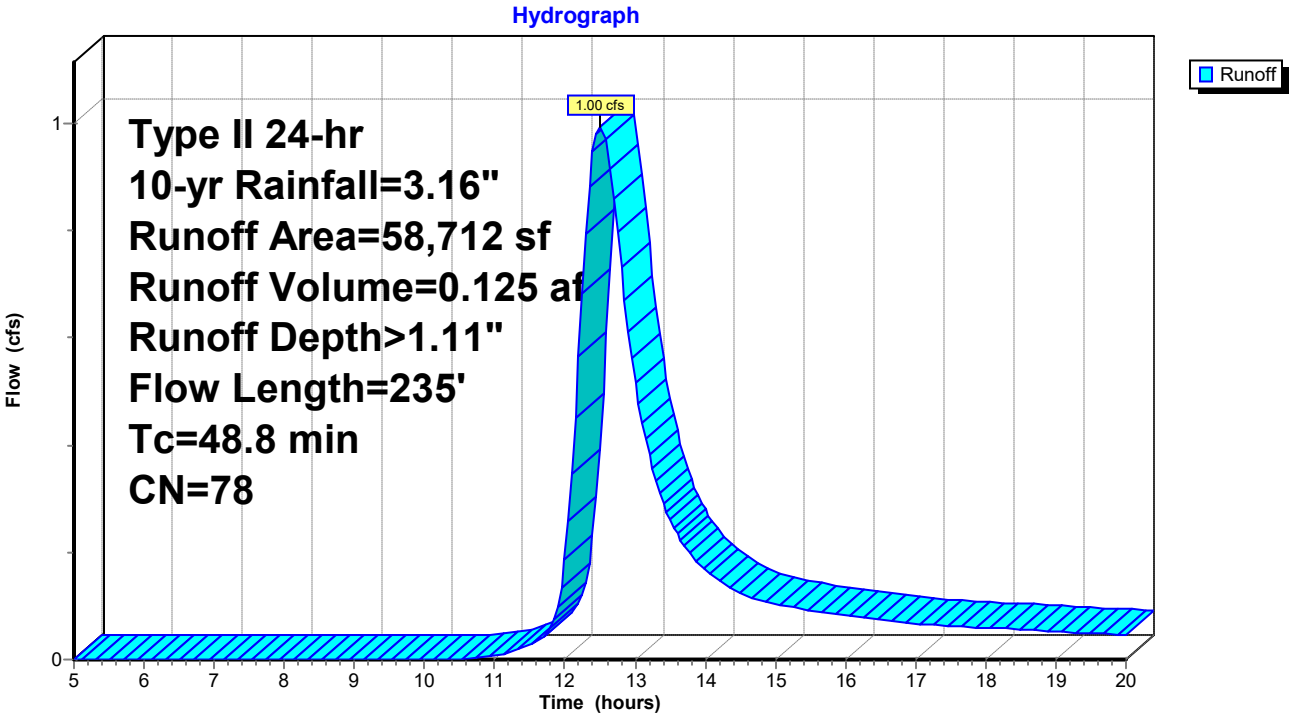
Runoff = 1.00 cfs @ 12.50 hrs, Volume= 0.125 af, Depth> 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (sf)	CN	Description
58,712	78	Meadow, non-grazed, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.3	150	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
48.8	235	Total			

Subcatchment 01: DA-01



Summary for Subcatchment 02: DA-02

Runoff = 8.35 cfs @ 11.99 hrs, Volume= 0.396 af, Depth> 1.82"

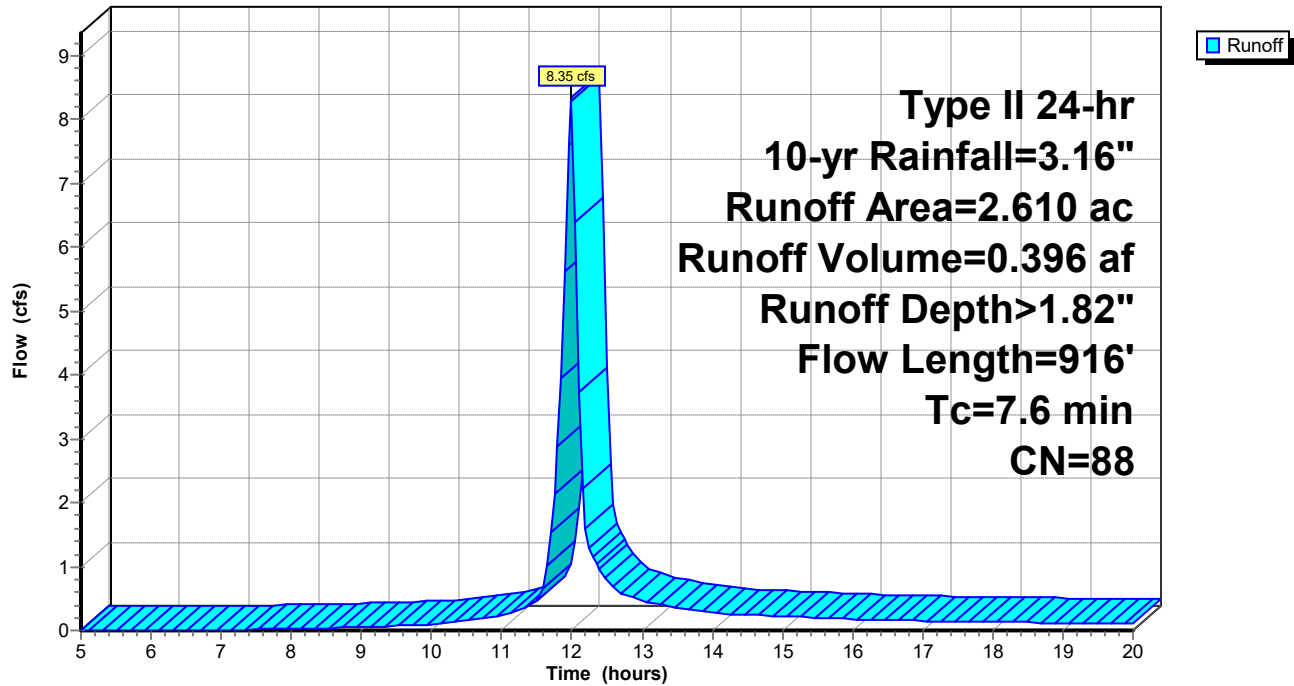
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
1.240	78	Meadow, non-grazed, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 03: DA-03

Runoff = 0.20 cfs @ 12.23 hrs, Volume= 0.017 af, Depth> 1.12"

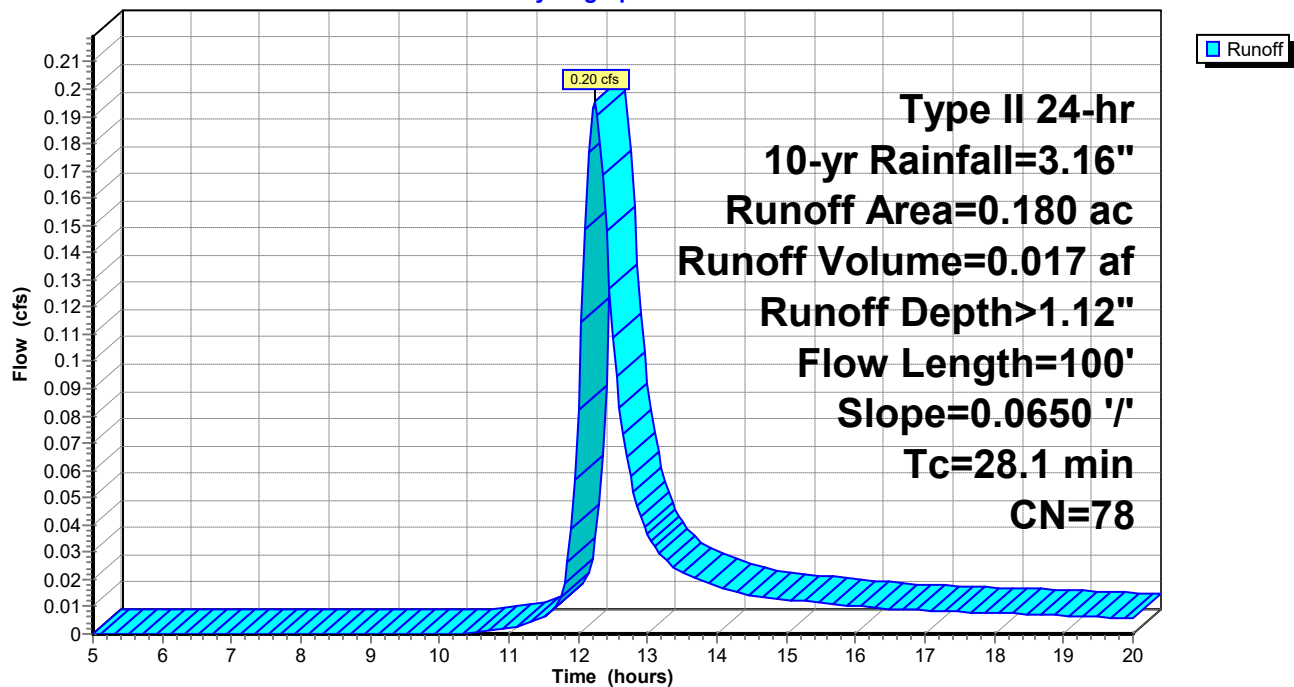
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.180	78	Meadow, non-grazed, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	100	0.0650	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Summary for Subcatchment 04: DA-04

Runoff = 0.14 cfs @ 12.36 hrs, Volume= 0.015 af, Depth> 1.12"

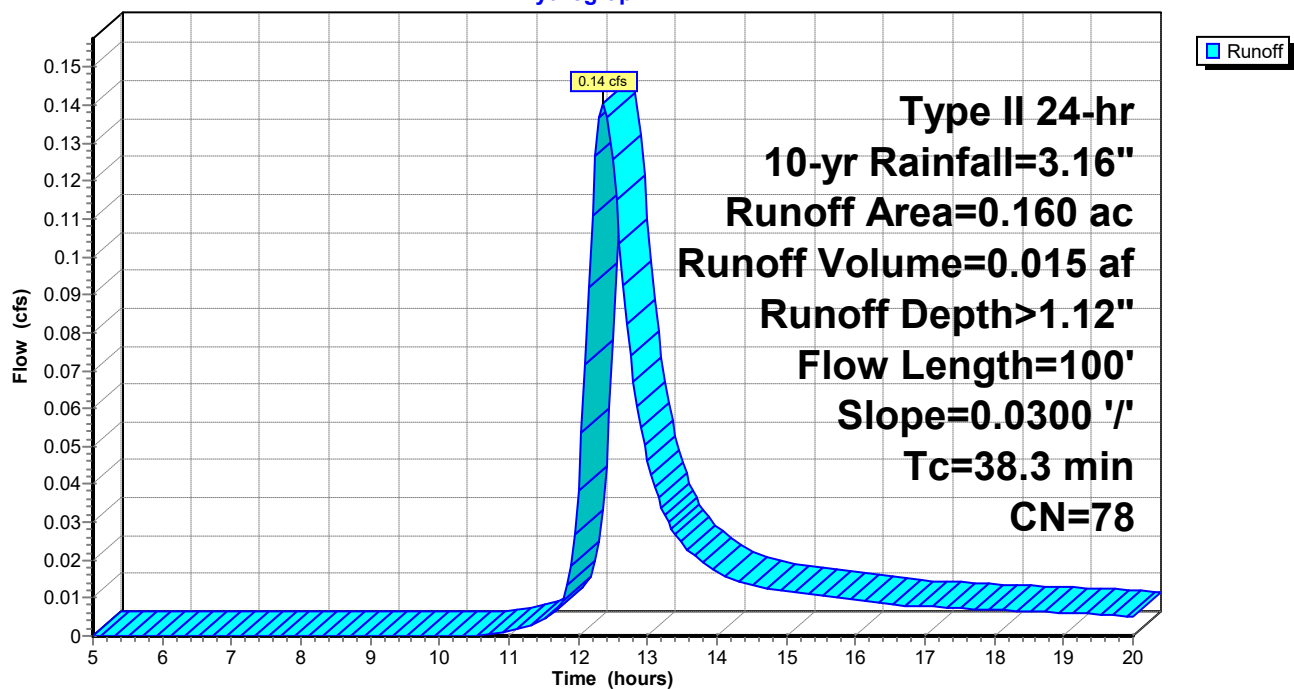
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.160	78	Meadow, non-grazed, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.3	100	0.0300	0.04		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Summary for Subcatchment 05: DA-05

Runoff = 1.80 cfs @ 13.46 hrs, Volume= 0.417 af, Depth> 1.07"

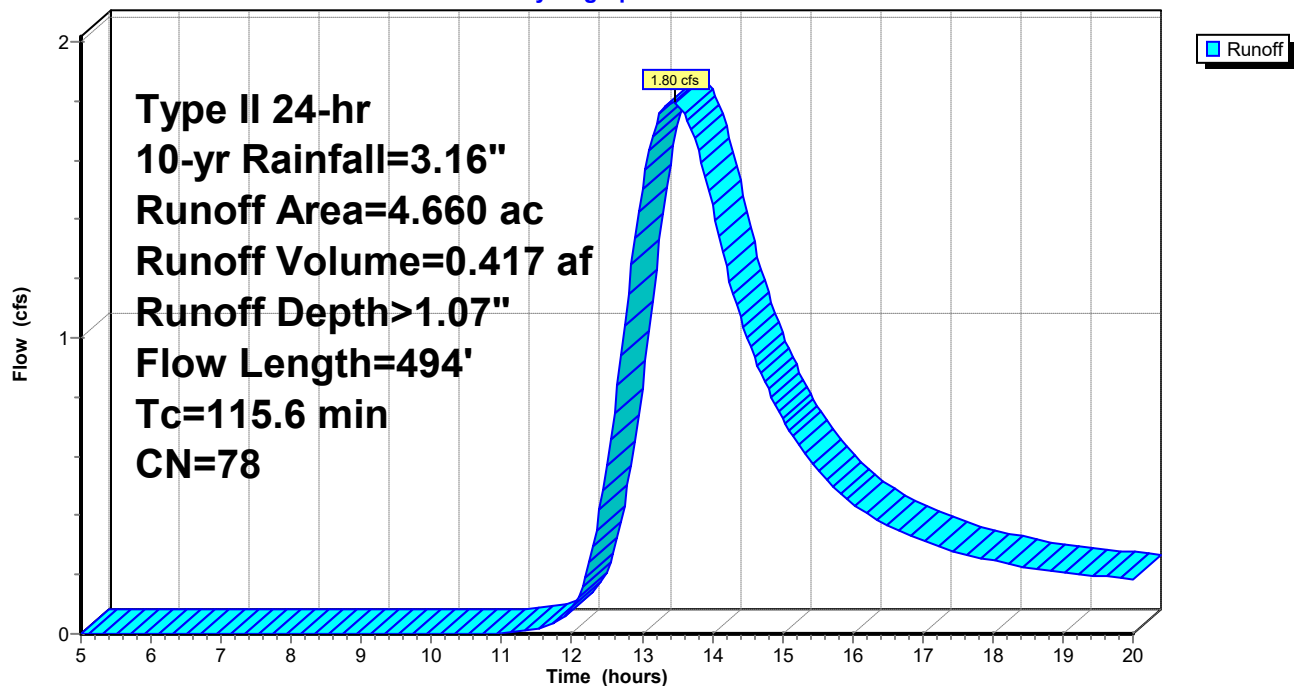
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
4.660	78	Meadow, non-grazed, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
115.6	494	Total			

Subcatchment 05: DA-05

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 06: DA-06

Runoff = 0.49 cfs @ 12.29 hrs, Volume= 0.047 af, Depth> 1.12"

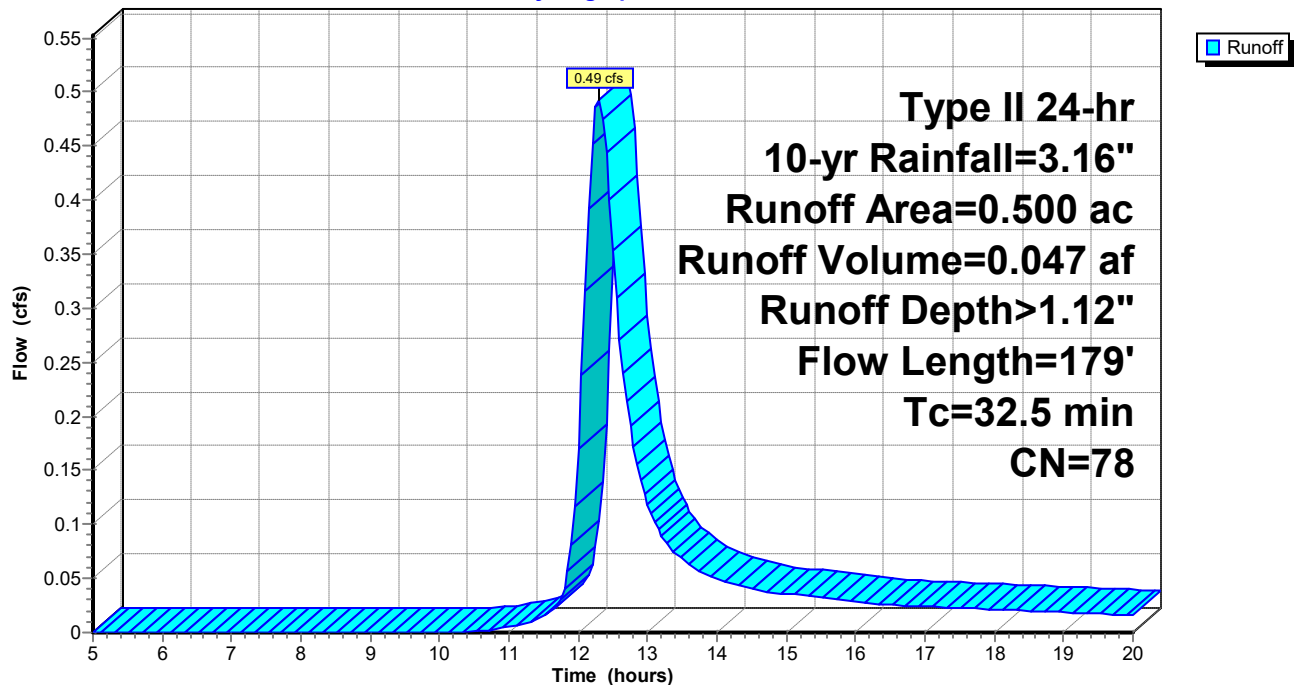
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.500	78	Meadow, non-grazed, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 07: DA-07

Runoff = 0.54 cfs @ 12.41 hrs, Volume= 0.061 af, Depth> 1.12"

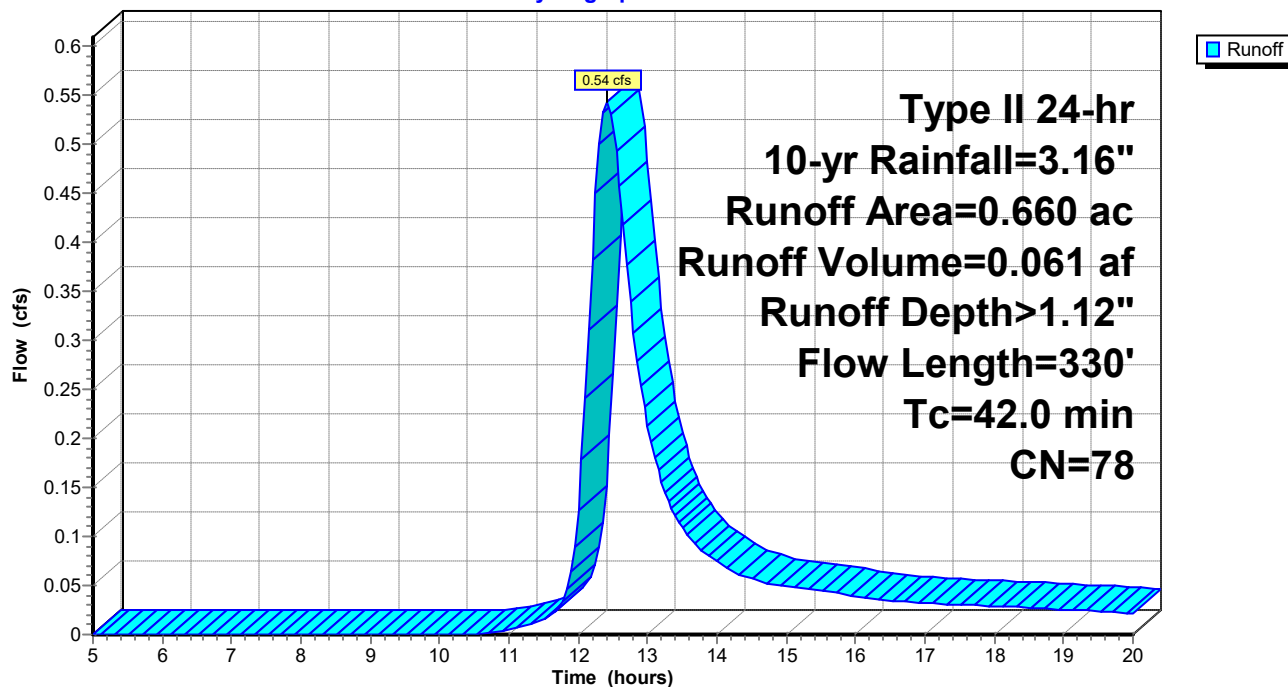
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.660	78	Meadow, non-grazed, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.0	330	Total			

Subcatchment 07: DA-07

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 08: DA-08

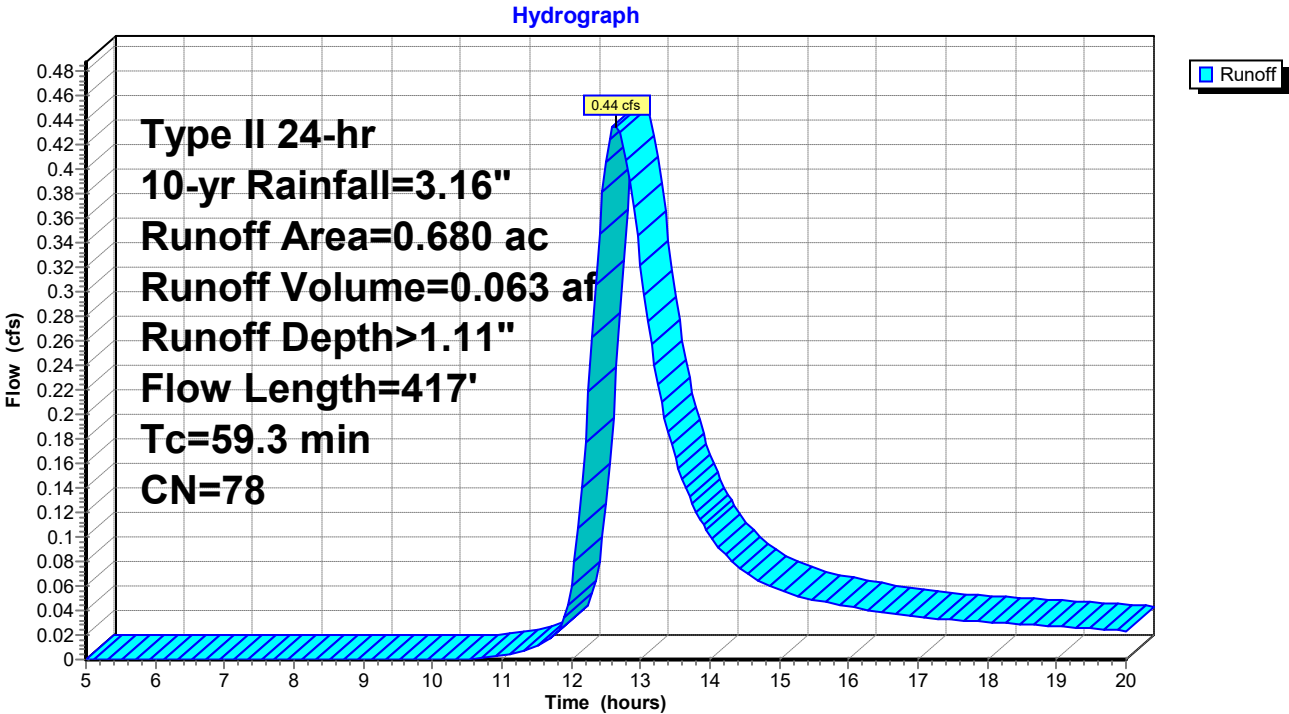
Runoff = 0.44 cfs @ 12.64 hrs, Volume= 0.063 af, Depth> 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.680	78	Meadow, non-grazed, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.0	150	0.0300	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
59.3	417	Total			

Subcatchment 08: DA-08



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 09: DA-09

Runoff = 0.56 cfs @ 12.36 hrs, Volume= 0.059 af, Depth> 1.12"

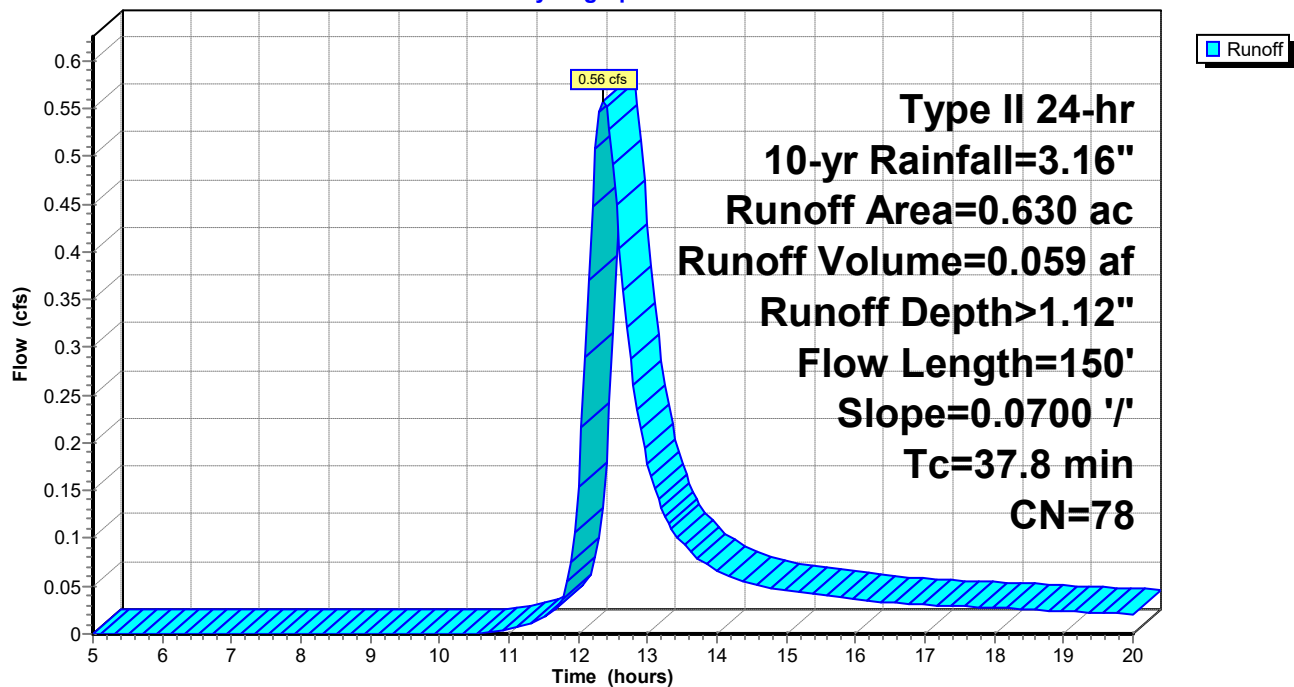
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.630	78	Meadow, non-grazed, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 10: DA-10

Runoff = 0.11 cfs @ 13.37 hrs, Volume= 0.026 af, Depth> 1.07"

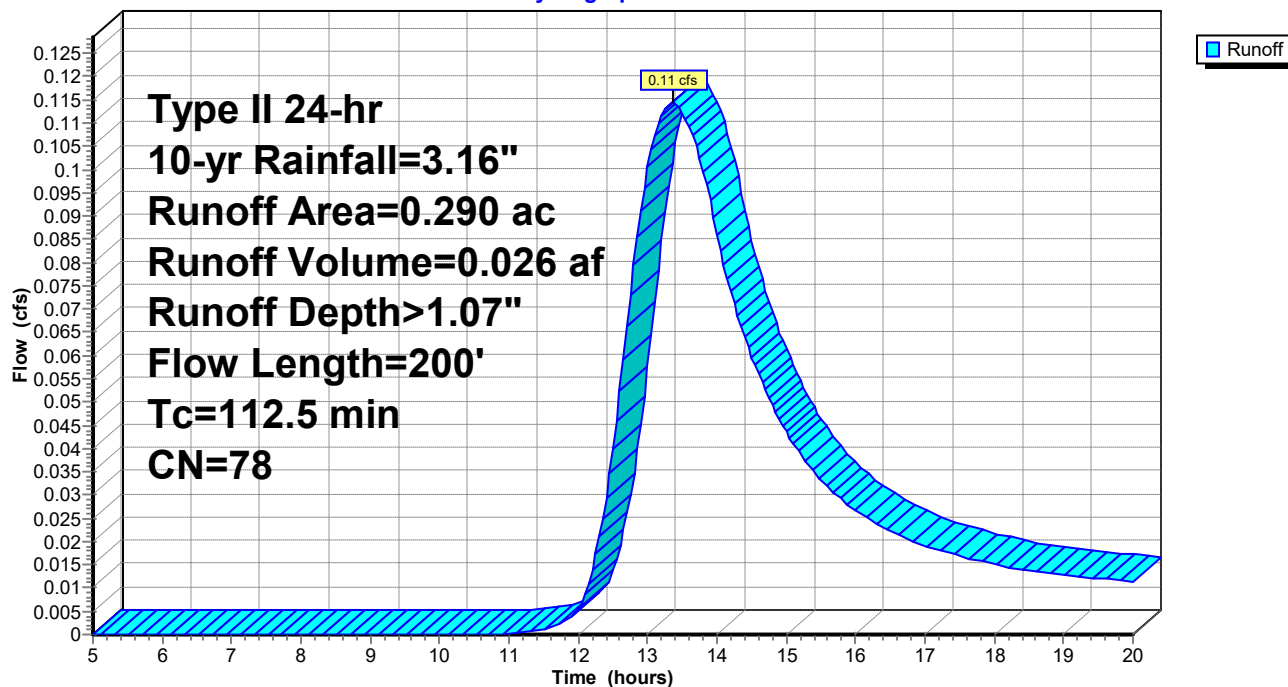
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 11: DA-11

Runoff = 0.30 cfs @ 12.27 hrs, Volume= 0.027 af, Depth> 1.12"

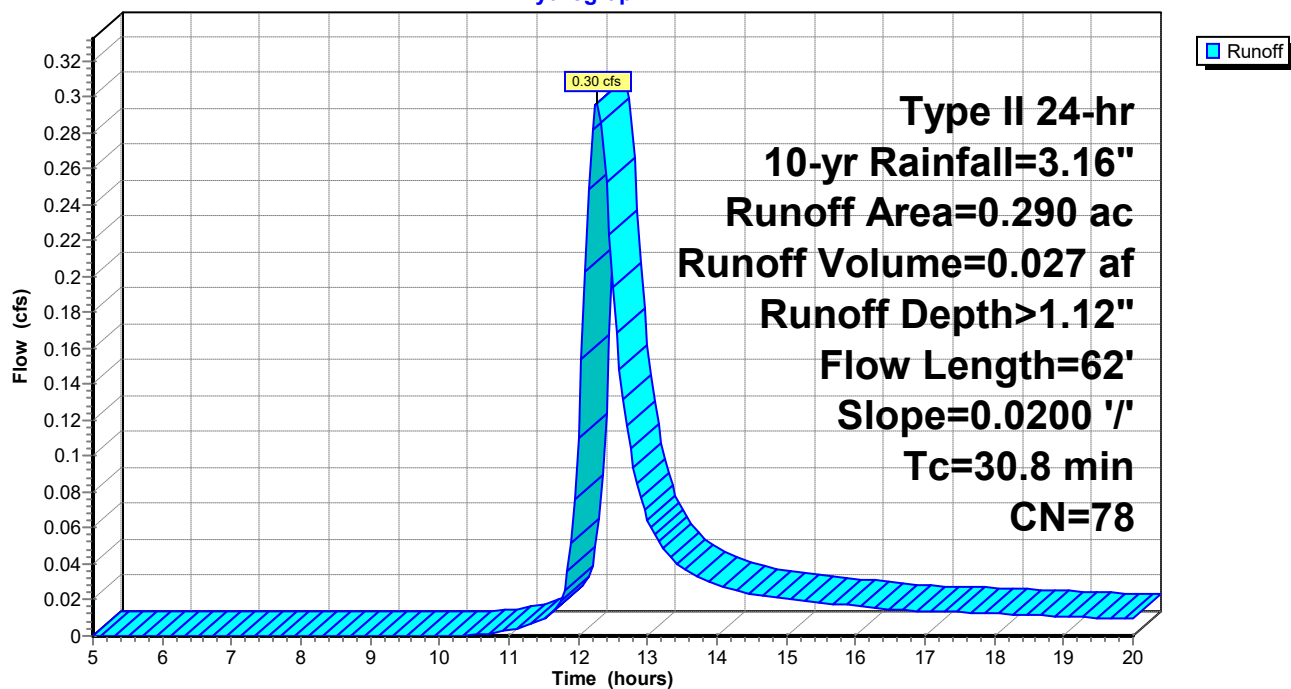
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	62	0.0200	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 12: DA-12

Runoff = 1.49 cfs @ 13.47 hrs, Volume= 0.350 af, Depth> 1.02"

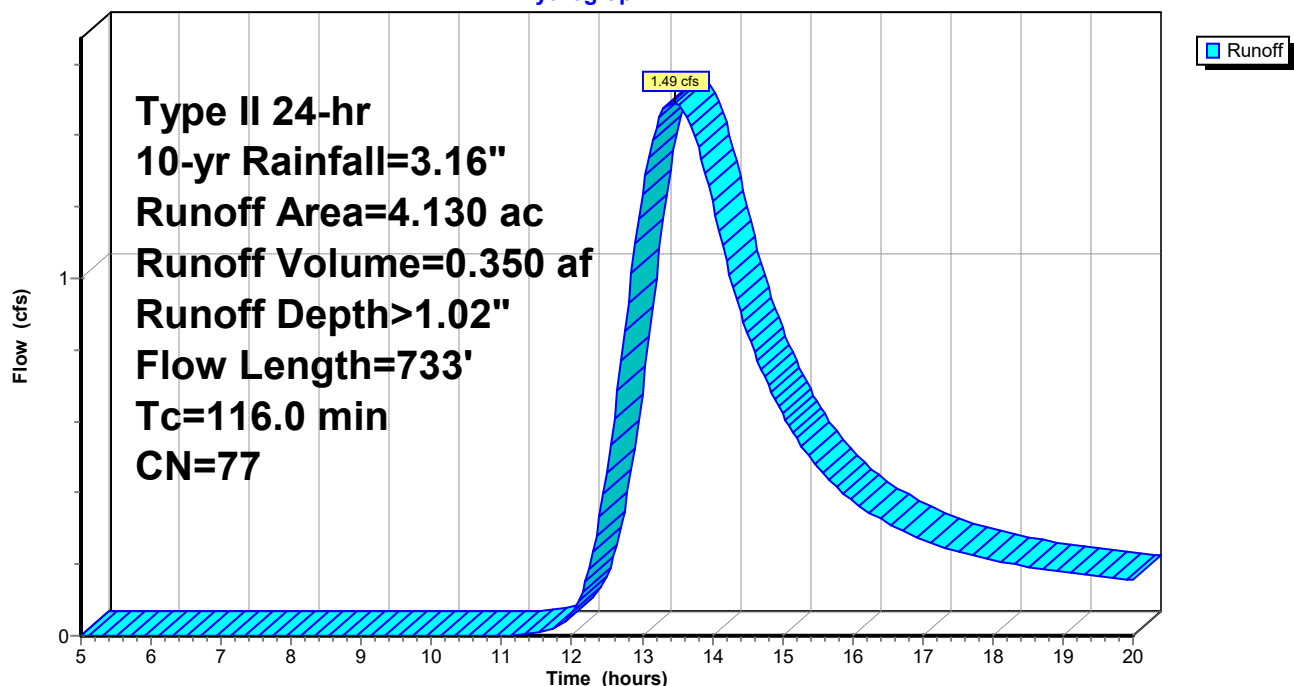
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	78	Meadow, non-grazed, HSG D
2.620	71	Meadow, non-grazed, HSG C
4.130	77	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
116.0	733	Total			

Subcatchment 12: DA-12

Hydrograph



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Type II 24-hr 10-yr Rainfall=3.16"

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Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 2.94 cfs @ 11.95 hrs, Volume= 0.130 af, Depth> 1.91"

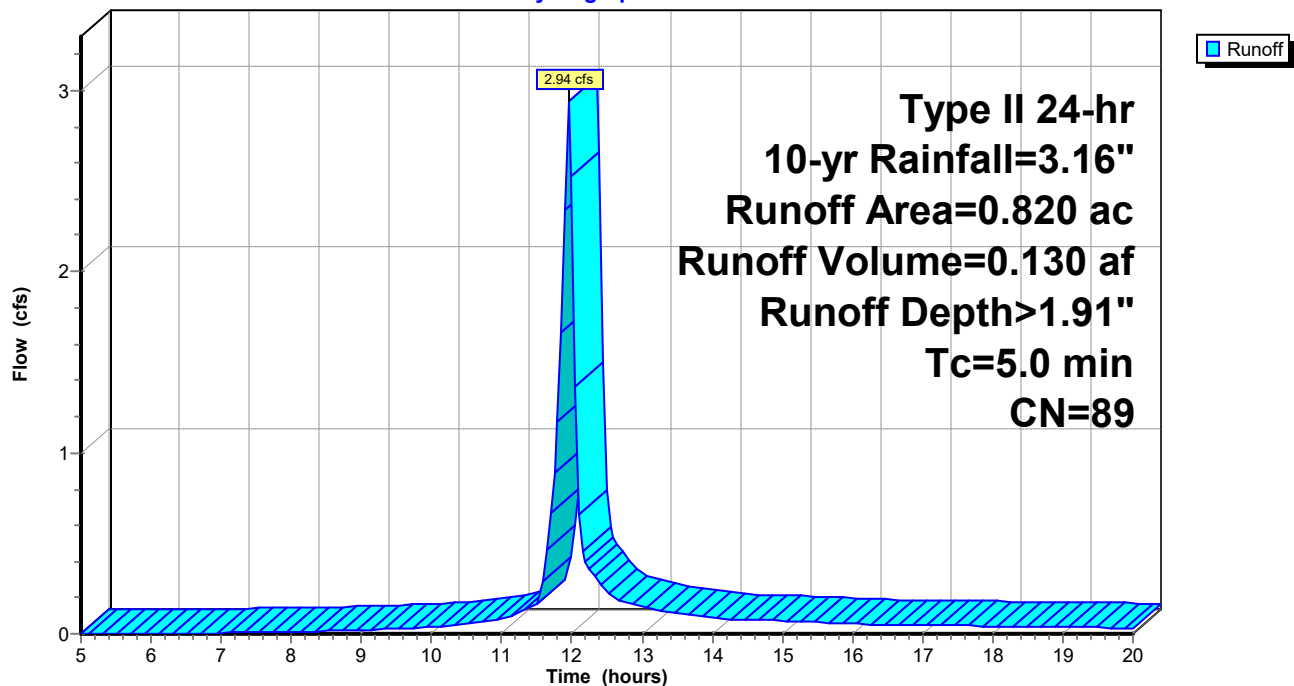
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs
Type II 24-hr 10-yr Rainfall=3.16"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 01: DA-01	Runoff Area=58,712 sf 0.00% Impervious Runoff Depth>2.23" Flow Length=235' Tc=48.8 min CN=78 Runoff=2.04 cfs 0.251 af
Subcatchment 02: DA-02	Runoff Area=2.610 ac 52.49% Impervious Runoff Depth>3.17" Flow Length=916' Tc=7.6 min CN=88 Runoff=14.03 cfs 0.689 af
Subcatchment 03: DA-03	Runoff Area=0.180 ac 0.00% Impervious Runoff Depth>2.25" Flow Length=100' Slope=0.0650 '/' Tc=28.1 min CN=78 Runoff=0.40 cfs 0.034 af
Subcatchment 04: DA-04	Runoff Area=0.160 ac 0.00% Impervious Runoff Depth>2.24" Flow Length=100' Slope=0.0300 '/' Tc=38.3 min CN=78 Runoff=0.29 cfs 0.030 af
Subcatchment 05: DA-05	Runoff Area=4.660 ac 0.00% Impervious Runoff Depth>2.16" Flow Length=494' Tc=115.6 min CN=78 Runoff=3.70 cfs 0.841 af
Subcatchment 06: DA-06	Runoff Area=0.500 ac 0.00% Impervious Runoff Depth>2.25" Flow Length=179' Tc=32.5 min CN=78 Runoff=1.01 cfs 0.094 af
Subcatchment 07: DA-07	Runoff Area=0.660 ac 0.00% Impervious Runoff Depth>2.24" Flow Length=330' Tc=42.0 min CN=78 Runoff=1.11 cfs 0.123 af
Subcatchment 08: DA-08	Runoff Area=0.680 ac 0.00% Impervious Runoff Depth>2.22" Flow Length=417' Tc=59.3 min CN=78 Runoff=0.90 cfs 0.126 af
Subcatchment 09: DA-09	Runoff Area=0.630 ac 0.00% Impervious Runoff Depth>2.24" Flow Length=150' Slope=0.0700 '/' Tc=37.8 min CN=78 Runoff=1.14 cfs 0.118 af
Subcatchment 10: DA-10	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>2.17" Flow Length=200' Tc=112.5 min CN=78 Runoff=0.24 cfs 0.052 af
Subcatchment 11: DA-11	Runoff Area=0.290 ac 0.00% Impervious Runoff Depth>2.25" Flow Length=62' Slope=0.0200 '/' Tc=30.8 min CN=78 Runoff=0.60 cfs 0.054 af
Subcatchment 12: DA-12	Runoff Area=4.130 ac 18.16% Impervious Runoff Depth>2.08" Flow Length=733' Tc=116.0 min CN=77 Runoff=3.14 cfs 0.717 af
Subcatchment 13: DA-13	Runoff Area=0.820 ac 51.22% Impervious Runoff Depth>3.27" Tc=5.0 min CN=89 Runoff=4.87 cfs 0.223 af

Total Runoff Area = 16.958 ac Runoff Volume = 3.351 af Average Runoff Depth = 2.37"
85.02% Pervious = 14.418 ac 14.98% Impervious = 2.540 ac

Post-Dev_01

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 01: DA-01

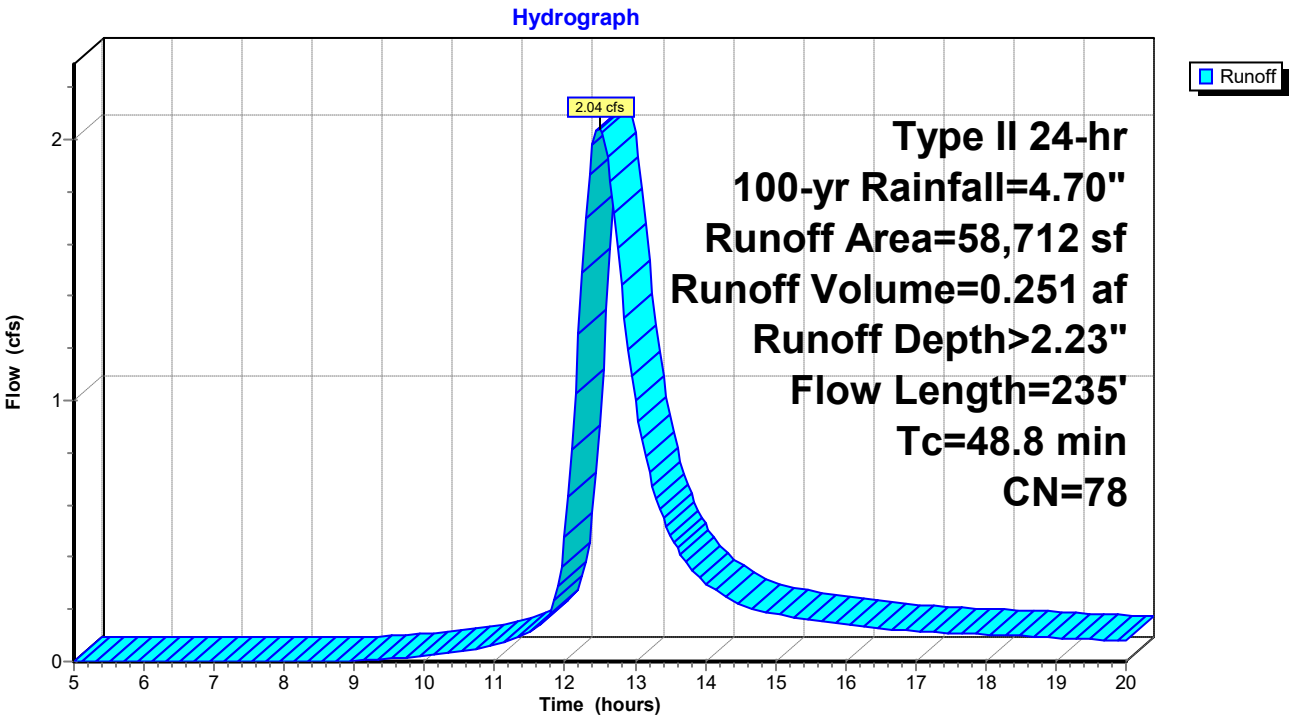
Runoff = 2.04 cfs @ 12.49 hrs, Volume= 0.251 af, Depth> 2.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (sf)	CN	Description
58,712	78	Meadow, non-grazed, HSG D
58,712		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.3	150	0.0400	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.5	85	0.0350	0.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
48.8	235	Total			

Subcatchment 01: DA-01



Summary for Subcatchment 02: DA-02

[47] Hint: Peak is 113% of capacity of segment #5

Runoff = 14.03 cfs @ 11.99 hrs, Volume= 0.689 af, Depth> 3.17"

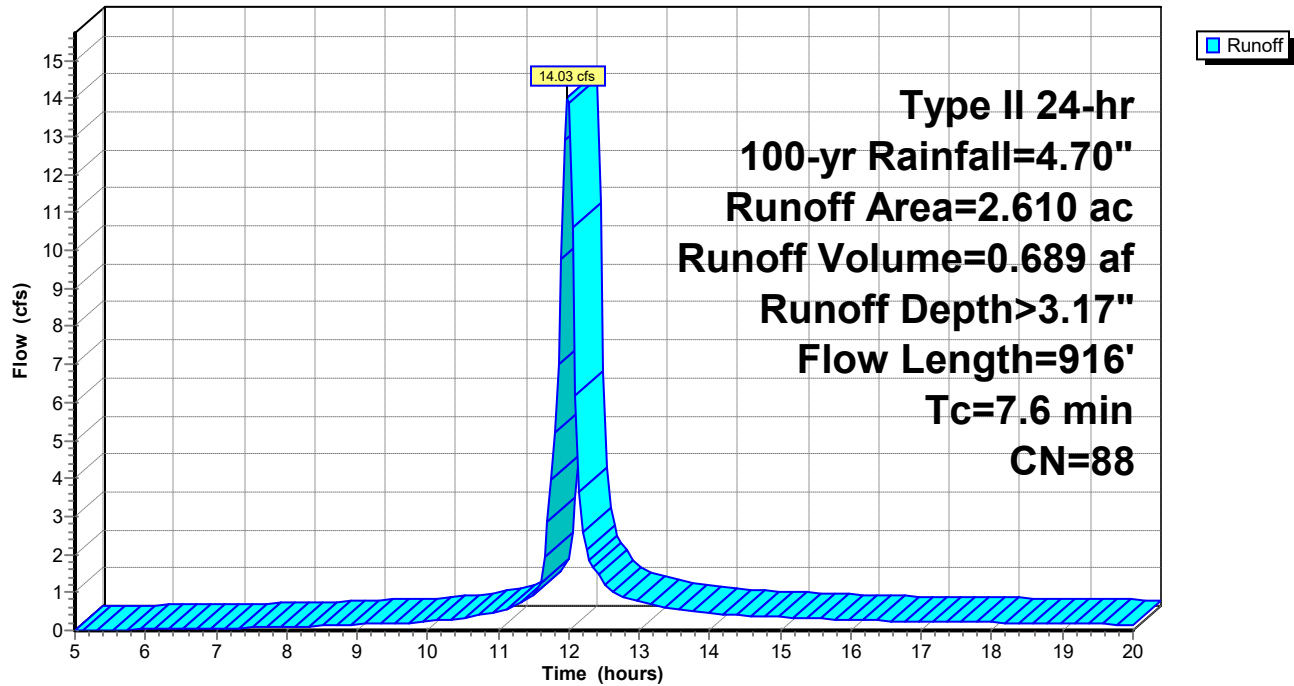
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
1.240	78	Meadow, non-grazed, HSG D
1.370	98	Paved parking, HSG D
2.610	88	Weighted Average
1.240		47.51% Pervious Area
1.370		52.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	65	0.0300	1.23		Sheet Flow, Smooth surfaces n= 0.011 P2= 2.20"
0.1	38	0.1000	6.42		Shallow Concentrated Flow, Paved Kv= 20.3 fps
1.6	326	0.0100	3.50	15.77	Channel Flow, Area= 4.5 sf Perim= 6.0' r= 0.75' n= 0.035 Earth, dense weeds
4.0	305	0.0070	1.27	60.94	Channel Flow, Area= 48.0 sf Perim= 65.0' r= 0.74' n= 0.080 Earth, dense brush, high stage
0.1	40	0.0100	7.03	12.41	Pipe Channel, 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.011 Concrete pipe, finished
0.9	142	0.0200	2.61	65.15	Channel Flow, Area= 25.0 sf Perim= 25.3' r= 0.99' n= 0.080 Earth, dense brush, high stage
7.6	916	Total			

Subcatchment 02: DA-02

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 03: DA-03

Runoff = 0.40 cfs @ 12.22 hrs, Volume= 0.034 af, Depth> 2.25"

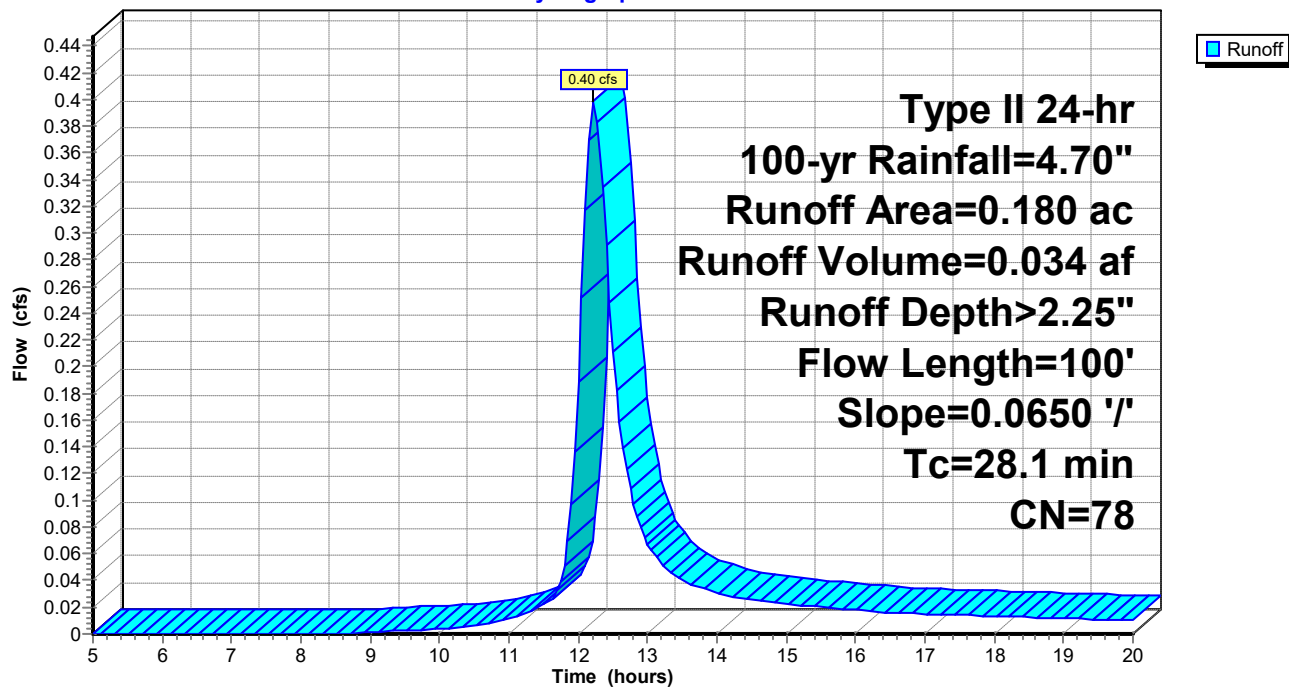
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.180	78	Meadow, non-grazed, HSG D
0.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	100	0.0650	0.06		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 03: DA-03

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 04: DA-04

Runoff = 0.29 cfs @ 12.35 hrs, Volume= 0.030 af, Depth> 2.24"

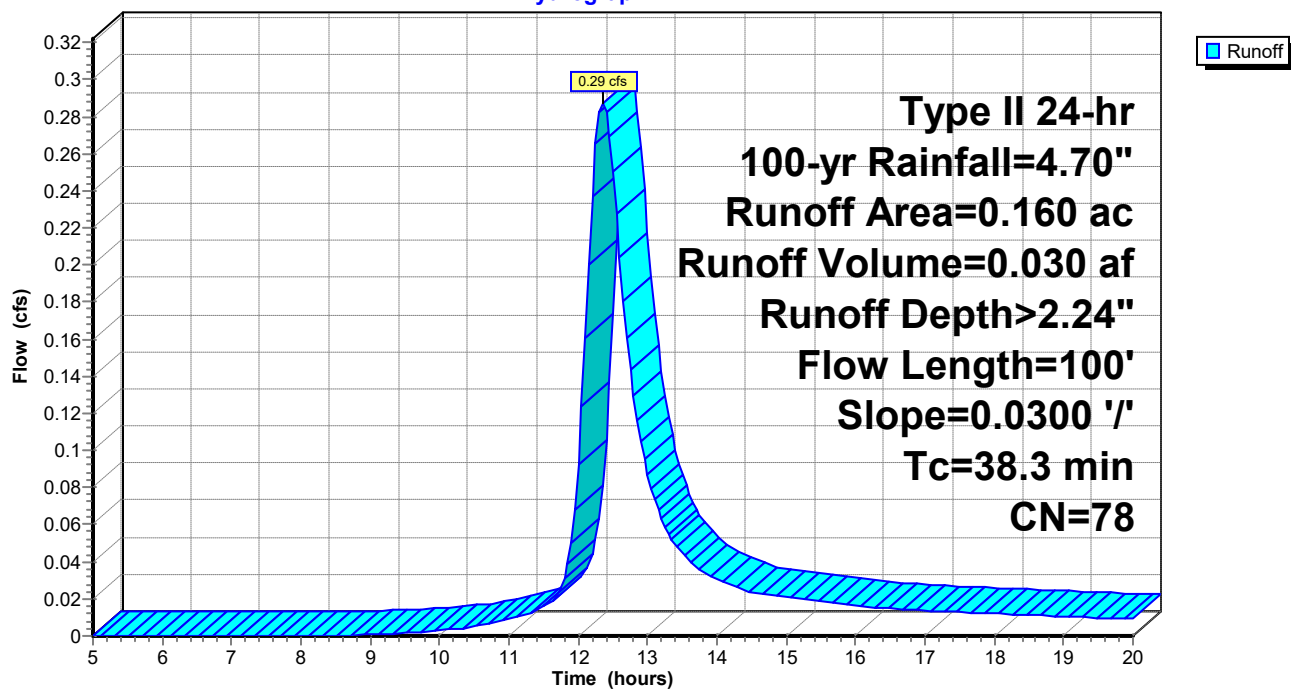
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.160	78	Meadow, non-grazed, HSG D
0.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.3	100	0.0300	0.04		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 04: DA-04

Hydrograph



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Summary for Subcatchment 05: DA-05

Runoff = 3.70 cfs @ 13.38 hrs, Volume= 0.841 af, Depth> 2.16"

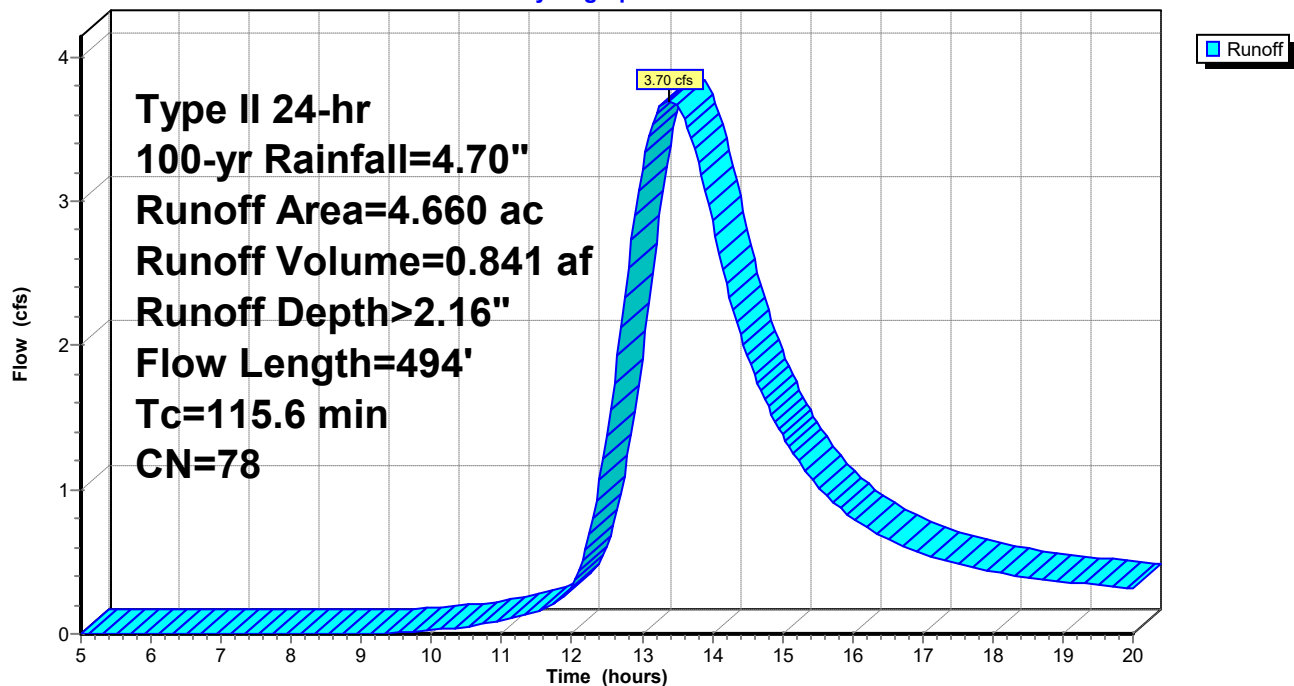
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
4.660	78	Meadow, non-grazed, HSG D
4.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
12.9	194	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
7.8	150	0.0300	0.32	21.23	Channel Flow, Area= 66.0 sf Perim= 66.0' r= 1.00' n= 0.800 Sheet flow: Woods+dense brush
115.6	494	Total			

Subcatchment 05: DA-05

Hydrograph



Summary for Subcatchment 06: DA-06

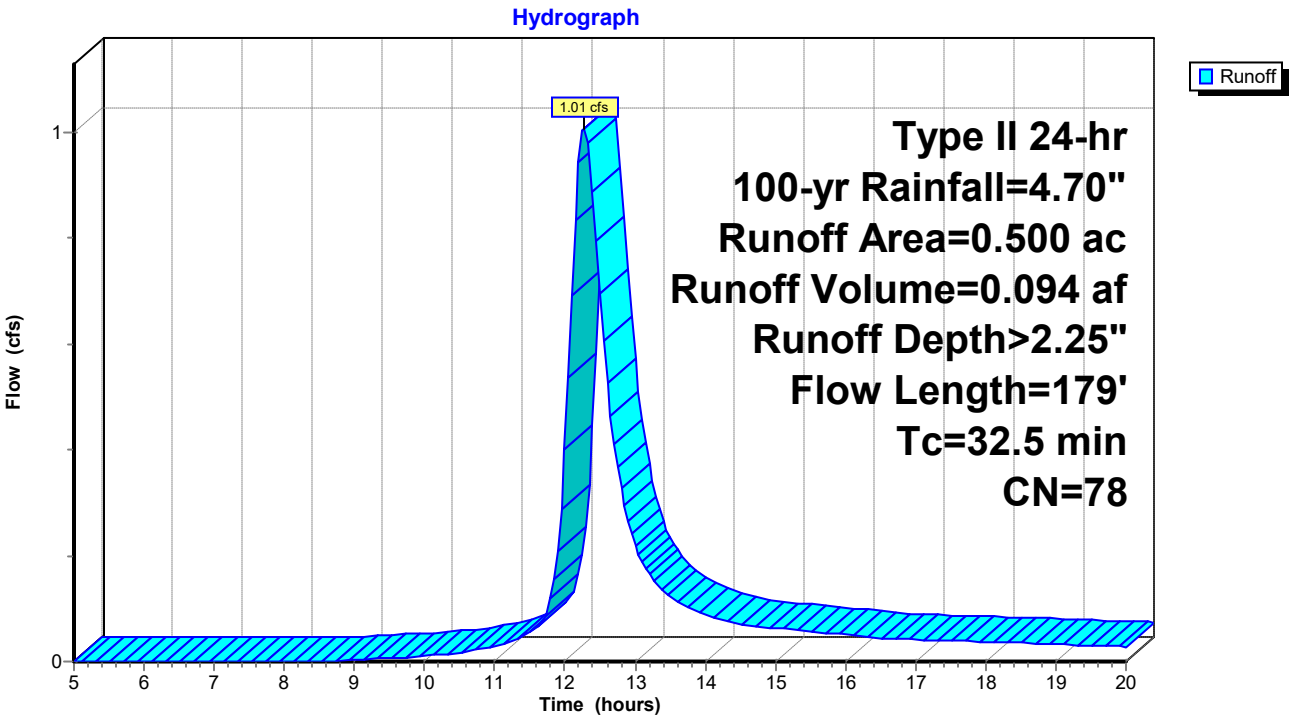
Runoff = 1.01 cfs @ 12.28 hrs, Volume= 0.094 af, Depth> 2.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.500	78	Meadow, non-grazed, HSG D
0.500		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	120	0.0900	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
3.9	59	0.0100	0.25		Shallow Concentrated Flow, Forest w/Heavy Litter Kv= 2.5 fps
32.5	179	Total			

Subcatchment 06: DA-06



Summary for Subcatchment 07: DA-07

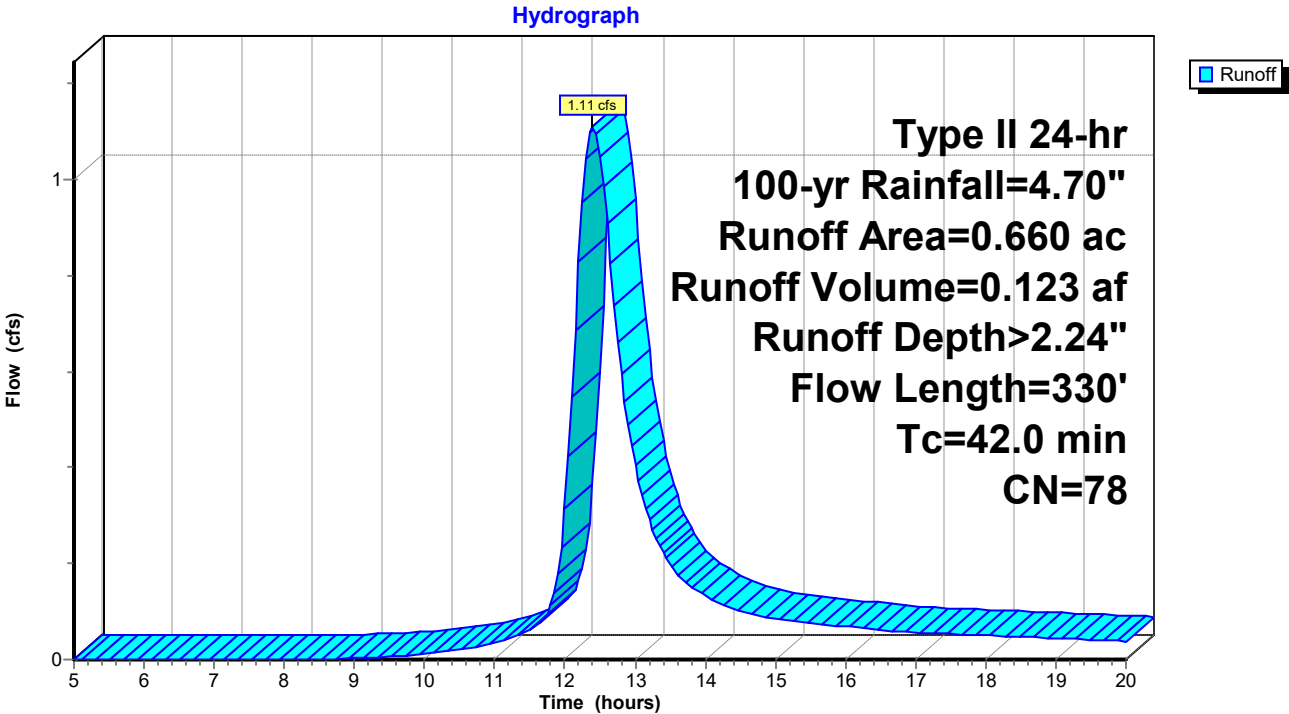
Runoff = 1.11 cfs @ 12.40 hrs, Volume= 0.123 af, Depth> 2.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.660	78	Meadow, non-grazed, HSG D
0.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
4.2	180	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
42.0	330	Total			

Subcatchment 07: DA-07



Summary for Subcatchment 08: DA-08

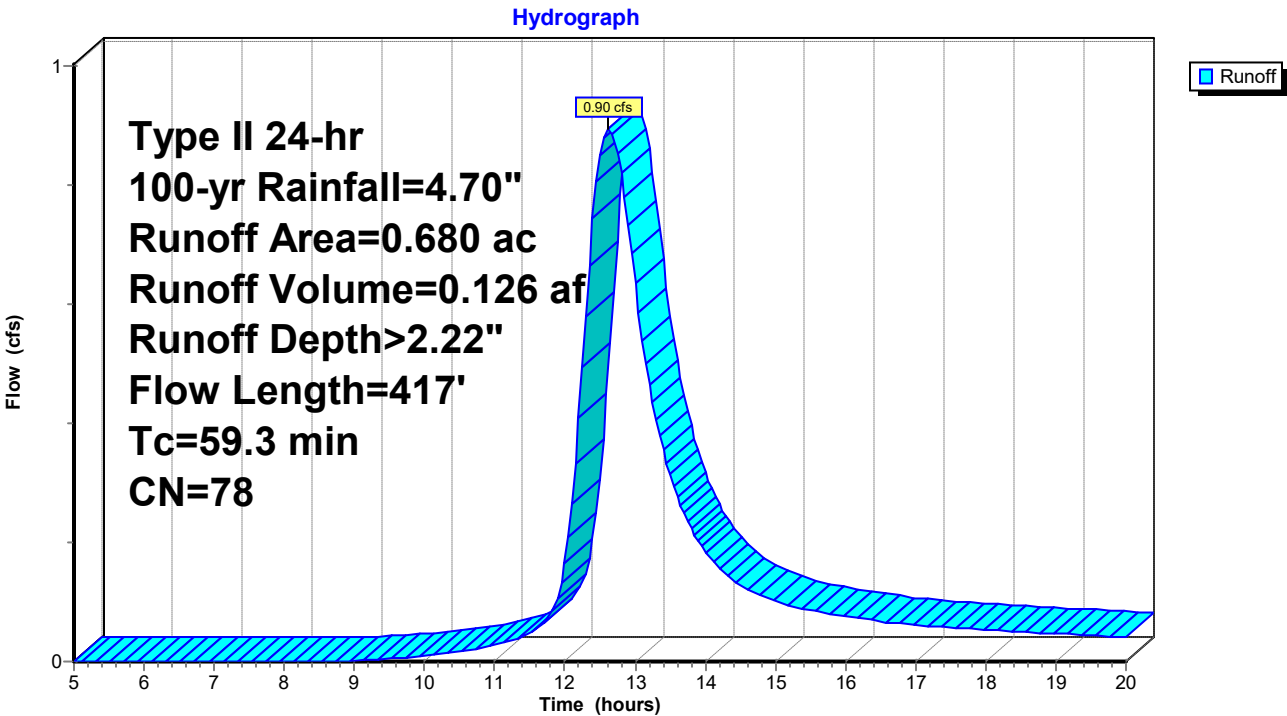
Runoff = 0.90 cfs @ 12.62 hrs, Volume= 0.126 af, Depth> 2.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.680	78	Meadow, non-grazed, HSG D
0.680		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.0	150	0.0300	0.05		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
6.3	267	0.0200	0.71		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
59.3	417	Total			

Subcatchment 08: DA-08



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 09: DA-09

Runoff = 1.14 cfs @ 12.34 hrs, Volume= 0.118 af, Depth> 2.24"

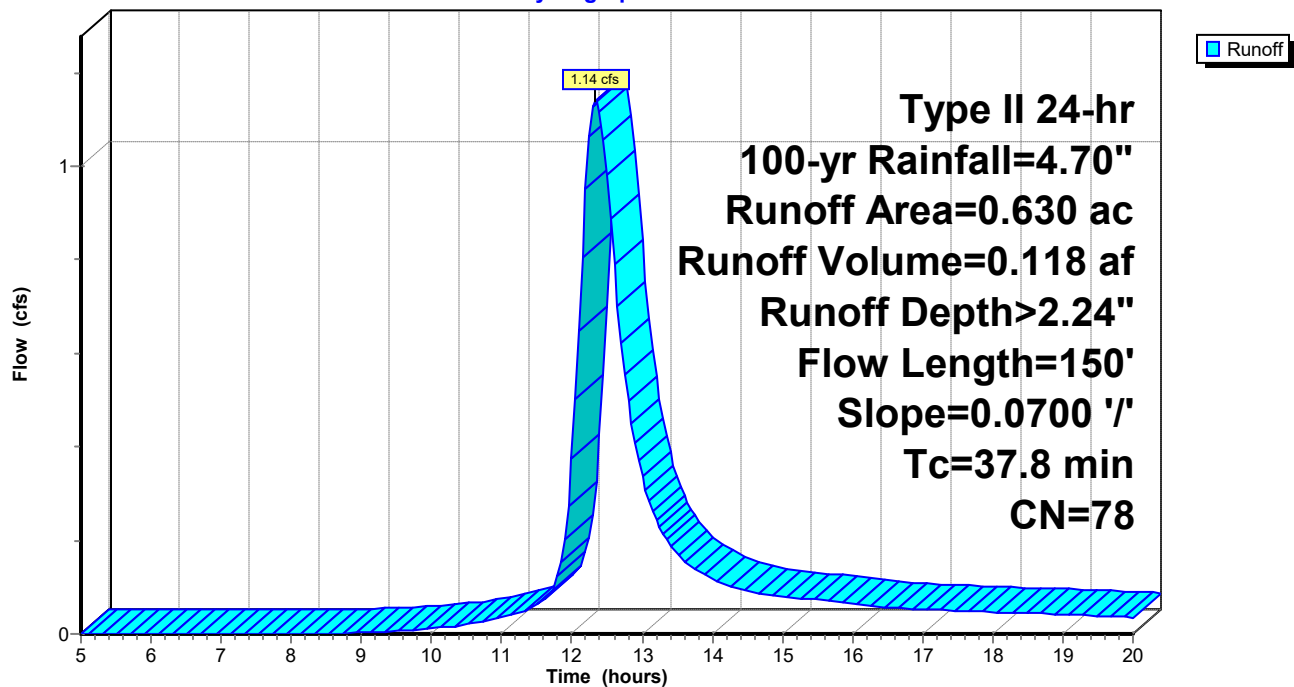
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.630	78	Meadow, non-grazed, HSG D
0.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	150	0.0700	0.07		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 09: DA-09

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 10: DA-10

Runoff = 0.24 cfs @ 13.34 hrs, Volume= 0.052 af, Depth> 2.17"

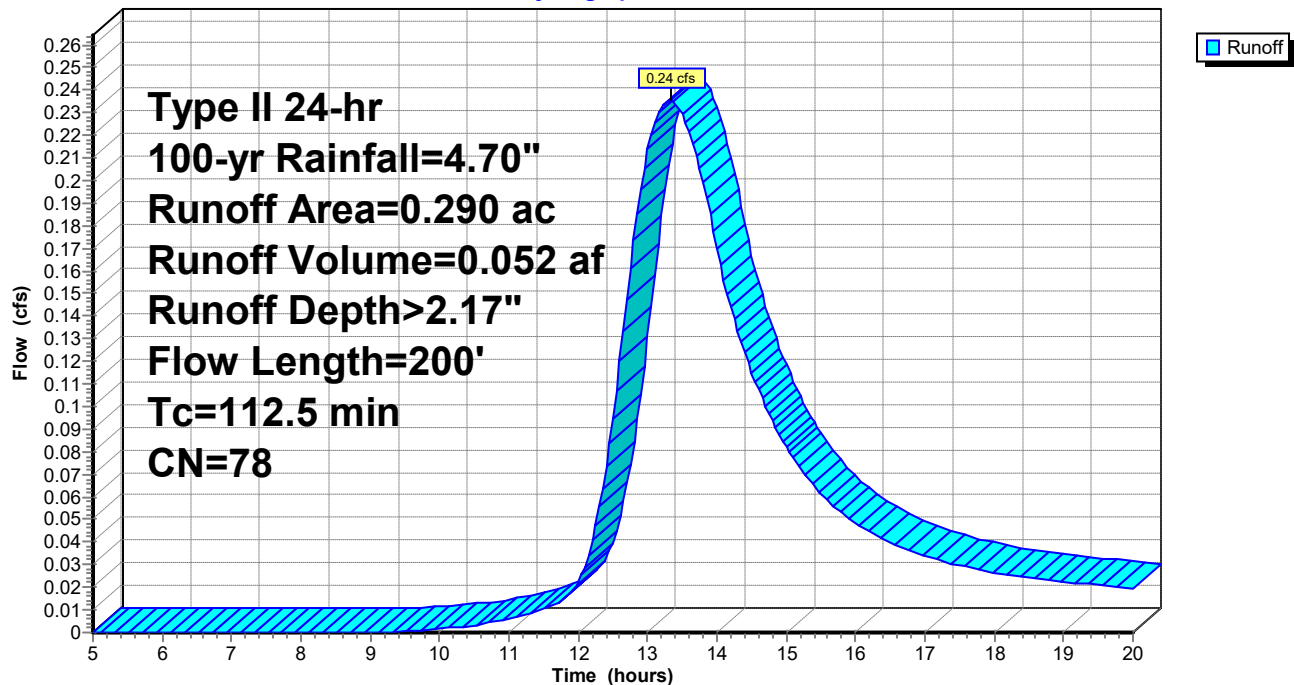
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.4	120	0.0030	0.02		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
1.1	80	0.0600	1.22		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
112.5	200	Total			

Subcatchment 10: DA-10

Hydrograph



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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 11: DA-11

Runoff = 0.60 cfs @ 12.26 hrs, Volume= 0.054 af, Depth> 2.25"

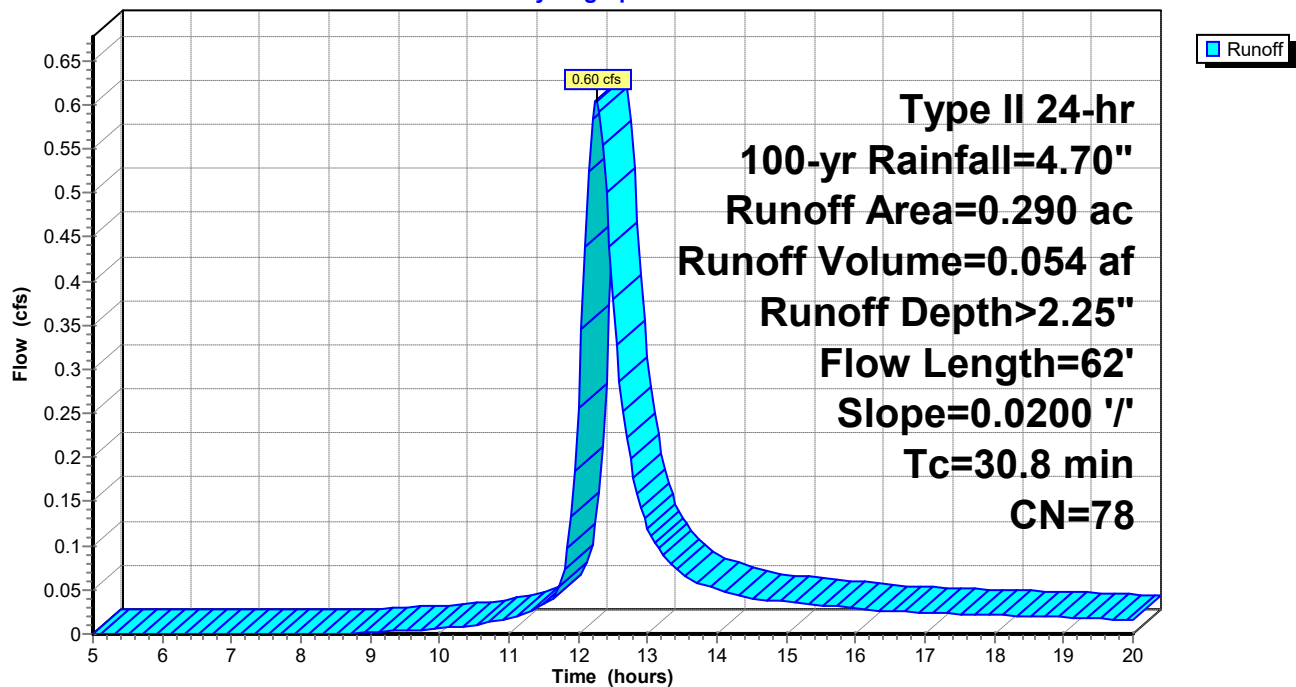
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.290	78	Meadow, non-grazed, HSG D
0.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.8	62	0.0200	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"

Subcatchment 11: DA-11

Hydrograph



Post-Dev_01

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 12: DA-12

Runoff = 3.14 cfs @ 13.39 hrs, Volume= 0.717 af, Depth> 2.08"

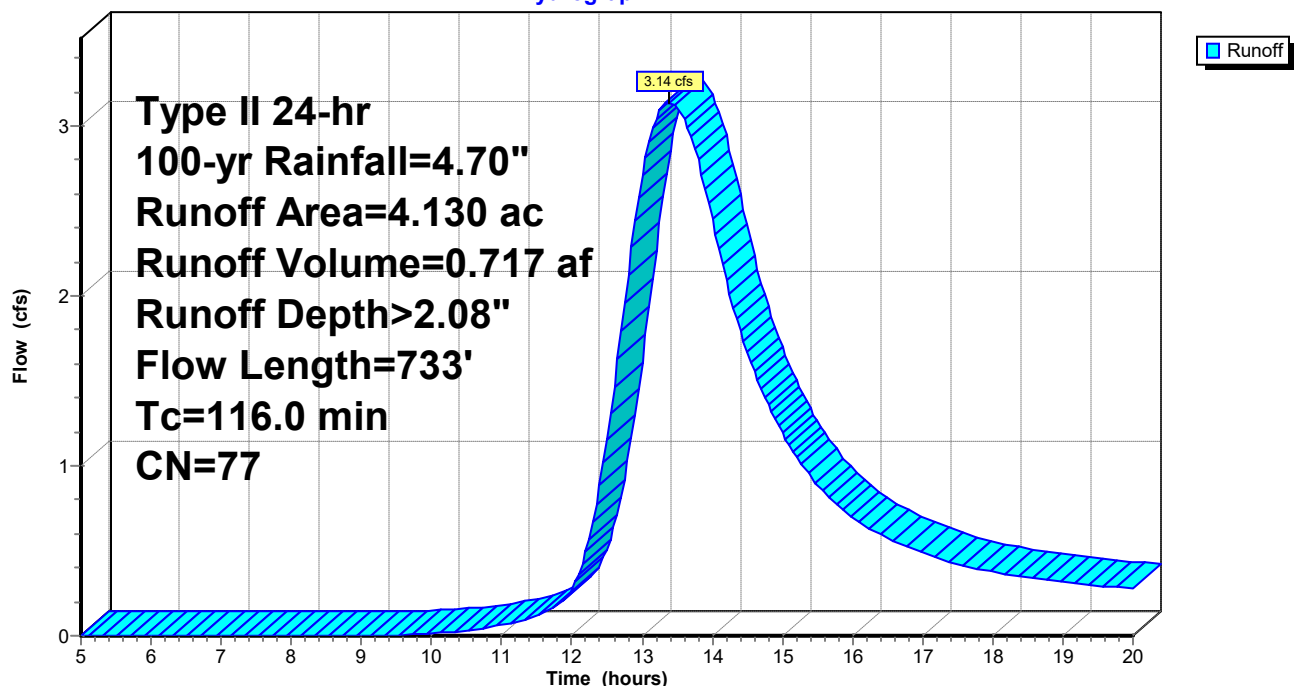
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.750	98	Paved parking, HSG D
0.760	78	Meadow, non-grazed, HSG D
2.620	71	Meadow, non-grazed, HSG C
4.130	77	Weighted Average
3.380		81.84% Pervious Area
0.750		18.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.9	150	0.0070	0.03		Sheet Flow, Woods: Dense underbrush n= 0.800 P2= 2.20"
9.9	297	0.0100	0.50		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
11.2	286	0.0030	0.43	7.24	Channel Flow, Area= 17.0 sf Perim= 34.2' r= 0.50' n= 0.120 Earth, long dense weeds
116.0	733	Total			

Subcatchment 12: DA-12

Hydrograph



Post-Dev_01

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Type II 24-hr 100-yr Rainfall=4.70"

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Summary for Subcatchment 13: DA-13[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 4.87 cfs @ 11.95 hrs, Volume= 0.223 af, Depth> 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, $dt=0.05$ hrs

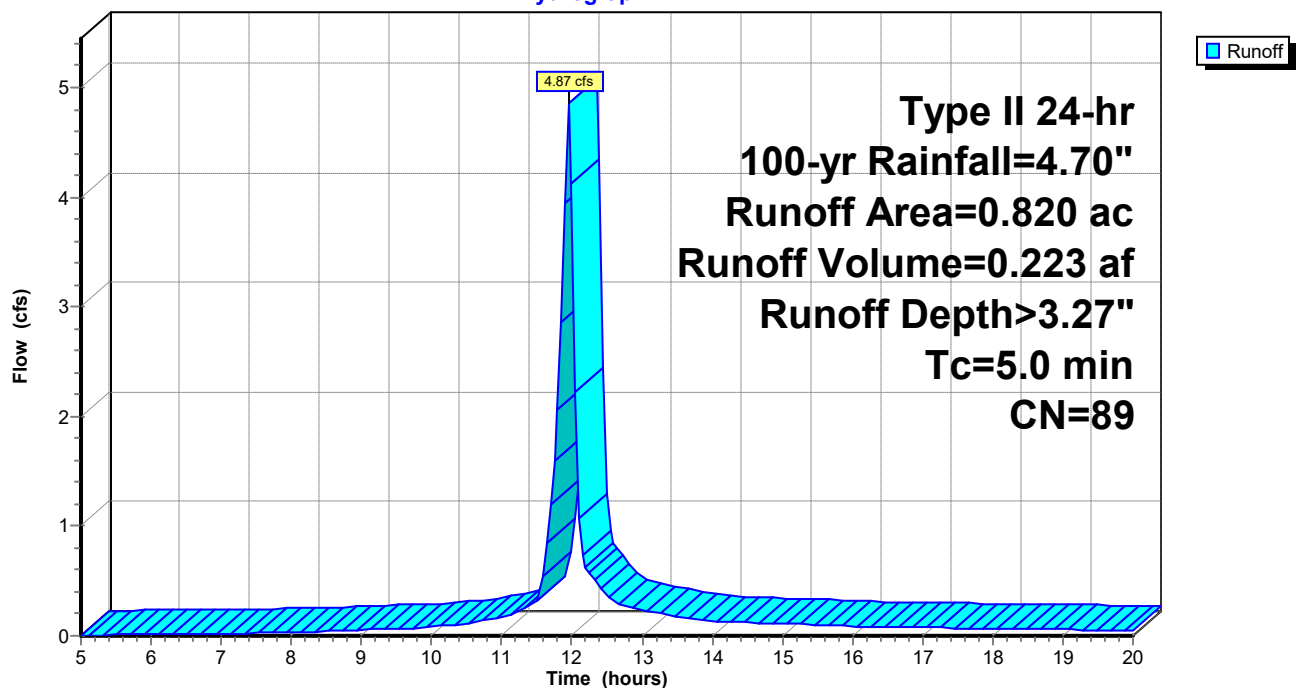
Type II 24-hr 100-yr Rainfall=4.70"

Area (ac)	CN	Description
0.420	98	Paved parking, HSG D
0.400	79	Woods/grass comb., Good, HSG D
0.820	89	Weighted Average
0.400		48.78% Pervious Area
0.420		51.22% Impervious Area

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

Subcatchment 13: DA-13

Hydrograph



APPENDIX L

Maintenance and Inspection Reports

(Place the finalized weekly (or twice weekly) Inspection Reports in this Appendix as they are completed)

APPENDIX M
Construction Sequence Scheduling Form

Appendix N

Modifications to SWPPP

SWPPP MODIFICATION FORM

for the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit for Stormwater Discharges from Construction Activity (GP-0-25-001)

As per Part I.E.9 on page 17 of GP-0-25-001 (Effective Date: January 29, 2025):

'To be authorized to implement modifications to the information previously submitted in the eNOI, the owner or operator must:

- Notify NYSDEC via email at Stormwater_info@dec.ny.gov requesting access to update the eNOI; and
- Update the eNOI to reflect the modifications and resubmit the eNOI in accordance with Part I.D.; and
- Receive an updated LOA.'

Modification Requirements (as per Part I.G.1.f. on page 19 of GP-0-25-001)

- Map of the revised area of disturbance and/or impervious area(s): **see [name of attachment]**
- The revised post-construction Stormwater Management Practice (SMP) information, if applicable: **see [name of attachment]**
- A narrative description of what has changed:
[insert text here]
- The new Owner/Operator Permit ID for the portion of the project removed from the eNOI:
[insert permit ID here]

A copy of this form and updated letter of acknowledgement (LOA) must be maintained at the SWPPP on site

